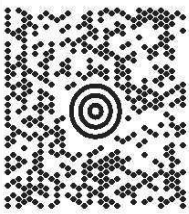
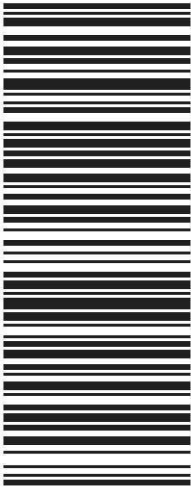


JENNILLE SMITH CENTERLINE COMMUNICATIONS 23 BROADVIEW EST BRISTOL VT 05443		1.0 LBS LTR	1 OF 1
SHIP TO: ATTN: MELANIE A. BACHMAN CONNECTICUT SITING COUNCIL 10 FRANKLIN SQUARE NEW BRITAIN CT 06051-2655			
		CT 067 9-06 	
UPS NEXT DAY AIR SAVER 1P TRACKING #: 1Z 9Y4 503 13 1923 4681			
			
BILLING: P/P			
Reference # 1: STAMFORD		CS 22.0.18. WNTNV50 13.0A 03/2022*  TM	

March 25, 2022

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

Re: Notice of Exempt Modifications – AT&T Site CTL02135
Telecommunications ATC Site 88018
168 Catoona Lane, Stamford, CT 06902

Dear Melanie:

New Cingular Wireless, PCS, LLC (dba AT&T) currently maintains antennas on a wireless telecommunications facility on an existing American Tower Corporation (ATC) telecommunications tower at the referenced address. AT&T desires to modify its existing equipment as described in the attached Construction Drawings:

Remove (9) antennas, (4) RRHs, (3) DC Squids, (2) DC cable lines, and (3) fiber cables.

Install (10) antennas, (2) RRHs, and (2) DC Squids.

Existing (3) antennas, (2) RRHs, (2) DC Fiber squids, (4) DC Fiber, and (1) fiber trunk to remain.

Ground work includes installation of (2) 5216, (4) XMU03, (1) 6648, (1) IDLE XCEDE, (1) 6675 Fronthaul Gateway, and (1) 6630.

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A §16-50j-72(b)(2).

In accordance with R.C.S.A §16-50j-73, a copy of this letter was sent to the following parties:

Zoning Board
Attn: Chair David Stein
Stamford Government Center
888 Washington Blvd., 7th Floor
Stamford, CT 06901

Office of the Mayor
Attn: Mayor Caroline Simmons
Stamford Government Center
888 Washington Blvd., 10th Floor
Stamford, CT 06901

Property Owner:
American Tower Corp
(PO BOX 723597, Atlanta GA 31139)

10 Presidential Way
Woburn, MA 01801

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

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require an 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 modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commissions safety standard. Please see the RF Report attached.
5. The proposed modifications will not cause an ineligible change or alternation in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading. Please see the structural analysis attached.

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 let me know if anything further would be helpful in your review.

Kind Regards,

Jennille Smith

Jennille Smith
Site Acquisition Consultant – Agent for AT&T
Centerline Communications LLC
750 West Center St. Ste 301
West Bridgewater, MA 02379
774-409-5807

Enclosures: Exhibit 1 – Construction Drawings
 Exhibit 2 – Property Card and GIS
 Exhibit 3 – Structural Analysis
 Exhibit 4 – Mount Analysis
 Exhibit 5 – RF Emissions Analysis Report Evaluation
 Exhibit 6 – Prior CSC Decisions
 Exhibit 7 – Delivery Confirmations

Cc:

Zoning Board
Attn: Chair David Stein
Stamford Government Center
888 Washington Blvd., 7th Floor
Stamford, CT 06901

Office of the Mayor
Attn: Mayor Caroline Simmons
Stamford Government Center
888 Washington Boulevard
10th Floor
Stamford, CT 06901

Property Owner:
American Tower Corp
(PO BOX 723597, Atlanta GA 31139)
10 Presidential Way
Woburn, MA 01801

EXHIBIT 1

1. **OWNER FINISHED MATERIALS:** 1.1.1 "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL:
 - A. ITS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/COLLOCATE ONLY)
 - B. ICE/ICEO INTERFACE BOX (PIC)
 - C. BATTERY CABLE (TIE) WITH COVER (GROUND BUILD/COLLOCATE ONLY, GC TO PROVIDE) (FOR TIE TO BATTERY CABLE) (FOR TIE TO NO ALTA (N/A))
 - D. TOWERS, MONOPILES
 - E. TOWER LIGHTING
 - F. GENERATORS & LIQUID PROPANE TANK
 - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - H. ANTENNA MOUNTING (FOR ALL ANTENNAS EXCEPT BY OTHERS)
 - I. TRANSMISSION LINE
 - J. TRANSMISSION LINE JUMPEES
 - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING RITS
 - L. TRANSMISSION LINE GROUND KITS
 - M. TRANSMISSION LINE GROUND KITS
 - N. JACKING GRIPS
 - O. RITS EQUIPMENT

- [illegible]

15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.

16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH AT&T AND AMERICAN TOWER CORPORATION (ATC) WITH A P&I MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T REP TO

CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T SPECIFICATIONS AND REQUIREMENTS.

- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO A1A1 FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO A1A1 SPECIFICATIONS AND AS SHOWN IN THESE PLANS.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTORS SHALL NOTIFY A1A1, AT LEAST A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY MEASURES TO PROTECT ALL PERSONNEL AND EQUIPMENT, SUCH AS WELDING AND THE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES, EROSION BARRIERS, ETC.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND EXISTING FACILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- REPRESENTATIVES SHALL PROTECT THE ELEMENTS DUE TO RESPECT ON THE PART OF THIS CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNERS SATISFACTION.
- ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE A1A1 REP. ANY WORK FOUND BY A1A1 TO BE DEFECTIVE OR NOT IN ACCORDANCE WITH THE SPECIFICATIONS, SHALL BE REMOVED AND OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
- IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MANUFACTURER'S CATALOG NUMBERS SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
- A1A1 IS FURNISHED EQUIPMENT SHALL BE PROVIDED AT THE A1A1 WORKSHOPS. NO LATER THAN AFTER THE BIDDING NOTIFIED INSURED, INCURABLE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE AND MAINTAIN THE EQUIPMENT IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER WORKING AT A1A1.
- A1A1 OR HIS ARCHITECT ENGINEER RESERVES THE RIGHT TO SELECT ANY EQUIPMENT OR MATERIALS WHICH IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE SPECIFICATIONS BY THE CONTRACTOR AT NO COST TO A1A1 OR HIS ARCHITECT ENGINEER.

WORK INCLUDED:

A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL

- B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND I331 SPECIFICATIONS.
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
- E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SHEET PILE UPLIFT. ANTENNA CHAIRS SHALL BE 18" SQUARE NETWORK ANALYZER, SIBIT FREQUENCY DOMAIN REFLECTOMETER TESTS RESULTS TO THE PROJECT MANAGER.
- F. CONTRACTOR SHALL PROVIDE TWO (2) SETS OF SHEET PILE UPLIFT. TESTING FOR ANTENNA AND HELIX COAXIAL CABLES SHALL BE DATED 10/05/21. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE REVIEWED AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
- G. INITIAL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN ANTENNA COAXIAL CABLES AND EQUIPMENT. ALL OTHERS REQUIREMENTS BETWEEN ANTENNA COAXIAL CABLES TO BE INSTALLED AT ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
- H. ANTENNA AND COAXIAL CABLE GROUNDING:
ALL EXTERIOR WIRE GREEN GROUND WIRE "DASHY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH IPS CONNECTOR/SHIELD WEATHERPROOFING MT 72213 OR EQUAL.
ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

AMERICAN TOWER®

Dewberry®

Dewberry Engineers Inc.
100 SUMMIT STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

- | REV. | DESCRIPTION | BY | DATE |
|------|-------------|----|----------|
| 1/A | PRELIM | FG | 12/10/01 |
| △ | | | |
| △ | | | |
| △ | | | |
| △ | | | |

ATC SITE NUMBER: 88018

ATC SITE NAME:
STAMFORD (KATOONA)

AT&T SITE NAME:

SITE ADDRESS:

STAMFORD, CT 06902-4573
SEAL •

PRELIMINARY:
NOT FOR
CONSTRUCTION

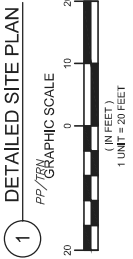


DATE DRAWN:	----
ATC JOB NO:	13683396_D1
CUSTOMER ID:	CTL02135
CUSTOMER #:	10034997

GENERAL NOTES

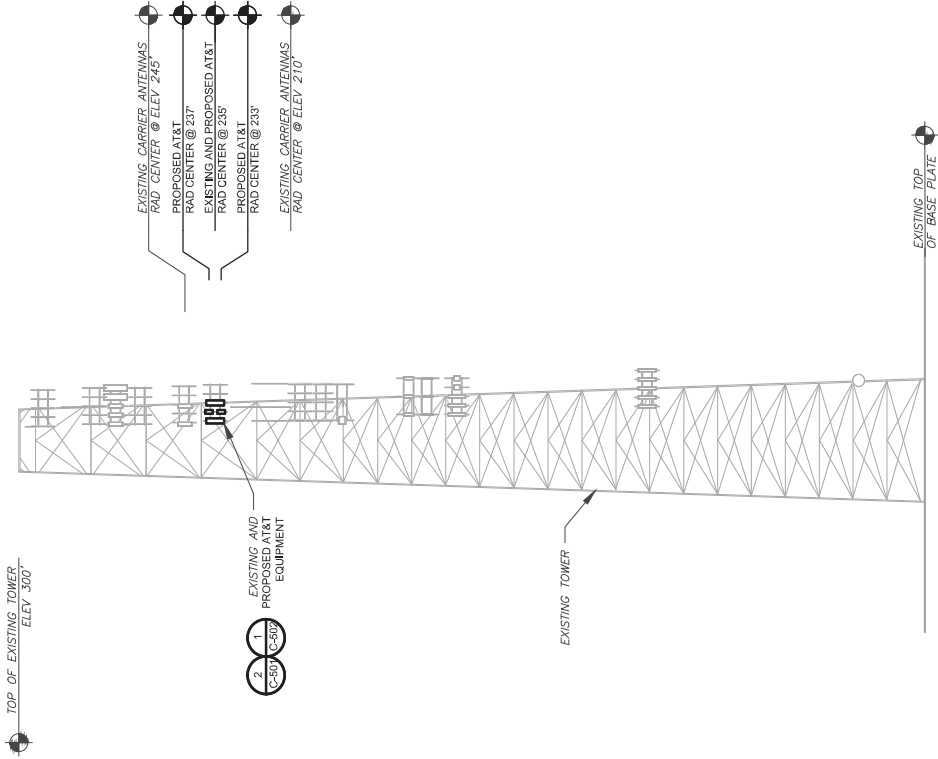
SHEET NUMBER: G-002	REVISION: A
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ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



⊗	ATS	GROUNDING TEST WELL
B	CSC	AUTOMATIC TRANSFER SWITCH
D	E	BOLLARD
F	GEN	CELL SITE CABINET
G	HB	DISCONNECT
H	K	ELECTRONIC
LC	M	FIBER
PB	PP	GENERATOR
PP	T	GENERATOR RECEPTACLE
TRN		HAND HOLE VAULT
		ICE BRIDGE
		KENTROX BOX
		LEIGHTING CONTROL
		METER
		PULL BOX
		POWER POLE
		TELCO
		TRANSFORMER
		CHAINLINK FENCE

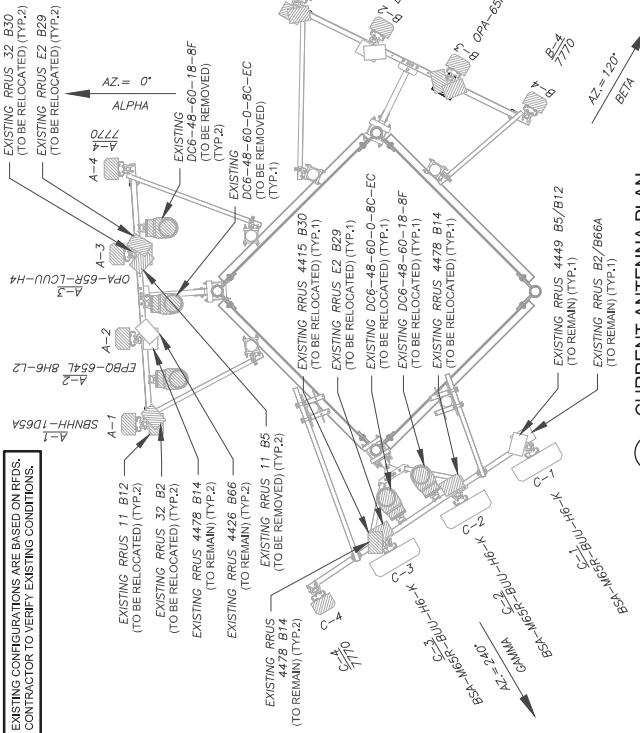
PER MOUNT ANALYSIS COMPLETED BY AMERICAN TOWER, DATED 10/19/21, THE EXISTING TOWER DESIGN DOES NOT SUPPORT THE PROPOSED LOADING. A MOUNT MODIFICATION DESIGN SHALL BE COMPLETED AND MODIFICATION MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



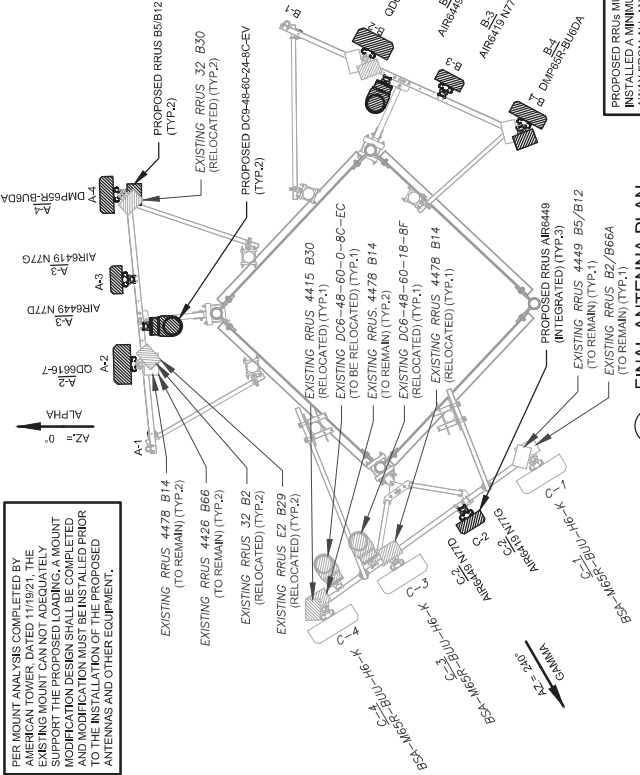
1 TOWER ELEVATION

SCALE: N.T.S.

- TOWER NOTE**
1. THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER ANTENNAS, MOUNTS, AND ATTACHMENTS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS, WHERE APPLICABLE. ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOAKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA JURISDICTION, AND/OR OTHER REGULATORY REQUIREMENTS. THE ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS, WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS AVAILABLE. PROVIDE CARRIER ANTENNA SOURCE CABLES, USE EITHER APPROXIMATE SIZED STAINLESS STEEL SNAPS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER, OTHERWISE ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING APPROXIMATE SIZED STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEGS). TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.) MAY NOT REFLECT TOWER ELEVATION. REFER TO STRUCTURAL ANALYSIS FOR ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



EXISTING CONFIGURATIONS ARE BASED ON RFDS.
CONTRACTOR TO VERIFY EXISTING CONDITIONS.



PER MOUNT ANALYSIS COMPLETED BY AMERICAN TOWER, DATED 11/19/21, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. A MODIFICATION DESIGN SHALL BE COMPLETED AND MODIFICATION MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

CURRENT ANTENNA PLAN

SCALE: N.T.S.

FINAL ANTENNA PLAN

SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA	237°	0°	A1	SBVHH-1D65A	LTE 700/1900/1900	RWV	RRUS 11 B12	RWV	
			A2	EPBQ-654L 8H6-L2	LTE 700/AMS	RWV	RRUS 4478 B14	RWV	
			A3	OPA-65R-LCUU-H4	LTE 700/850/WCS	RWV	RRUS 11 B5	RWV	
							RRUS E2 B29	REL	
BETA	237°	120°	A4	7770	UMTS 850	RWV	RRUS 32 B30	REL	
			B1	SBVHH-1D65A	LTE 700/1900/1900	RWV	RRUS 11 B12	RWV	
			B2	EPBQ-654L 8H6-L2	LTE 700/AMS	RWV	RRUS 32 B2	REL	
							RRUS 4478 B14	RWV	
	237°		B3	OPA-65R-LCUU-H4	LTE 700/850/WCS	RWV	RRUS 4426 B66	RWV	
			B4				RRUS 11 B5	REL	
							RRUS E2 B29	REL	
							7770	UMTS 850	RWV
GAMMA	237°	240°	C1	BSA-M65R-BUJ-H6-K	LTE 700/850/1900/19000	RWV	RRUS 4449 B5/B12	RWV	
			C2	BSA-M65R-BUJ-H6-K	LTE 700/AMS	REL	RRUS 3843 B2 B66A	REL	
			C3	BSA-M65R-BUJ-H6-K	LTE 700/WCS	REL	RRUS 4478 B14	REL	
							RRUS E2 B29	REL	
			C4	BSA-M65R-BUJ-H6-K	UMTS 850	RWV	RRUS 4415 B30	REL	

EXISTING FIBER DISTRIBUTION			EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(2) DC6-48-60-18-8F	RUN	—	(4) DC	(1) FIBER	RUN
(1) DC6-48-60-0-8C-EC	RUN	—	—	—	—
(1) DC6-48-60-18-8F	RUN	—	—	—	—
(1) DC6-48-60-0-8C-EC	RUN	—	—	—	—

NOTES	
1.	APPLICABLE WITH AT&T REP FOR CONFIGURE WITH UPDATES/REVISIONS (CONTRACTOR TO PROVIDE) NSN CONFIGURATION (CONTRACTOR TO PROVIDE) TO CAP ALL UNUSED PORTS. 2. EQUIPMENT SPACING OF PROPOSED EQUIPMENT SHOULD NOT CAUSE TOWER CONFIGURATION TO BE IMPAIRED. TOWER CONFIGURATION SHALL BE IDENTICAL TO THE ANTENNA ORIENTATION PLAN (IS A SCHEMATIC, AT&T DID NOT PROVIDE). 3. CONTRACTOR EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, EXISTING ANTENNA MOUNT CONFIGURATIONS AND TOWER ORIENTATION, SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS SHALL BE USED. 4. CONTRACTOR SHALL VERIFY ALL INSTALLATION CONDITIONS PRIOR TO INSTALLATION AND NOTIFY AT&T OF ANY DISCREPANCIES. 5. CONTRACTOR TO ENSURE CONFORMANCE WITH ALL AT&T'S REQUIREMENTS AND AT&T'S FIRSTNET REQUIREMENTS (SEE SHEET R-602)
	CABLE LENGTHS FOR JUMPEXS JUNCTION BOX TO RRU: 15' RRU TO ANTENNA: 10'
	STATUS ABBREVIATIONS RMV: TO BE REMOVED REL: TO BE RELOCATED ADD: TO BE ADDED

[illegible]

FINAL FIBER DISTRIBUTION/SQUID		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(2) DCG-48-60-18-8F	R/N	-	(4) DC	(1) FIBER	R/N
(2) DCG-48-60-24-8C-EV	ADD				-

EQUIPMENT SCHEDULES

ES

FINAL FIBER DISTRIBUTION/SQUID		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(2) DC6-48-60-18-8F	RNIN	-	(4) DC	(1) FIBER	RNIN
(2) DC9-48-60-24-8C-EV	ADD	-	-	-	-

ES

FINAL FIBER DISTRIBUTION/SQUID		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(2) DC6-48-60-18-8F	RNIN	-	(4) DC	(1) FIBER	RNIN
(2) DC9-48-60-24-8C-EV	ADD	-	-	-	-

• • •

PRELIMINARY:
NOT FOR
CONSTRUCTION



AT&T

DATE DRAWN:	
ATC JOB NO:	13683396_D1
CUSTOMER ID:	CTL02135
CUSTOMER #:	10034997

RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER: C-401	REVISION: A
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American Tower

COMMUNICATIONS



Dewberry

Dewberry Engineers Inc.

99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.552.6900
FAX: 617.552.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	EG	12/10/21

ATC SITE NUMBER:
88018

ATC SITE NAME:
STAMFORD (KATOONA)

AT&T SITE NAME:
STAMFORD WEST

SITE ADDRESS:
168 KATOONA LANE
STAMFORD CT 06902-4573

SEAL:

PRELIMINARY:
NOT FOR
CONSTRUCTION



AT&T

DATE DRAWN: ---

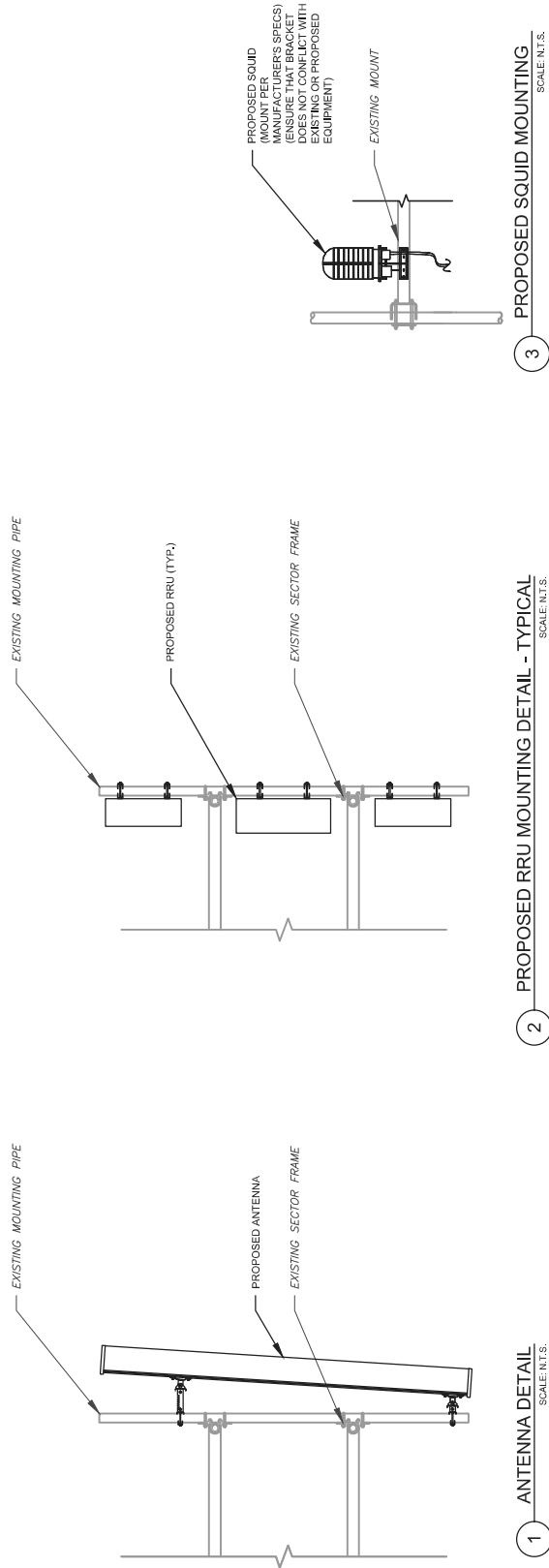
ATC JOB NO: 13683396_D1

CUSTOMER ID: CTLO2135

CUSTOMER #: 10034997

CONSTRUCTION
DETAILS

SHEET NUMBER:	REVISION:
C-501	A





REV.	DESCRIPTION	BY	DATE
A	PRELIM	FG	12/10/21

ATC SITE NAME:
STAMFORD (KATOONA)

AT&T SITE NAME:
STAMFORD WEST

SITE ADDRESS:
168 CATOONA LANE
STAMFORD CT 06902-4573

SEAL:

PRELIMINARY:
NOT FOR
CONSTRUCTION

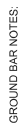


AT&T

DATE DRAWN:	
ATC JOB NO:	13583396_D1
CUSTOMER ID:	CTL02135
CUSTOMER #:	10034897

GROUNDING DETAILS

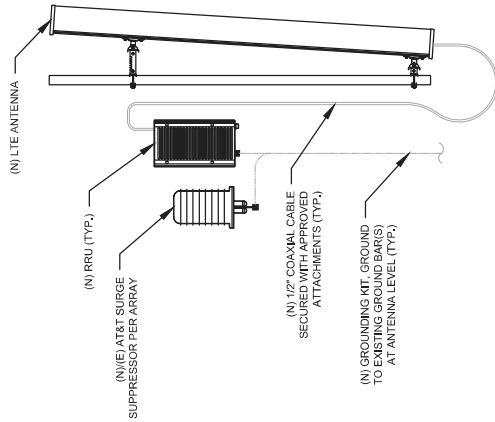
SHEET NUMBER: E-501 REVISION: A



1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

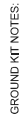
TOWER GROUND BAR DETAIL

SCALE: N.T.S.



ANTENNA/RRU GROUNDING

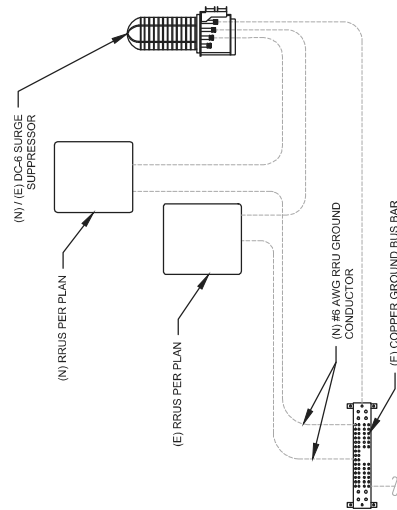
SCALE: N.T.S.



- GROUND KIT NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL TAPE PER MANUFACTURER'S SPECIFICATIONS.

CABLE GROUND KIT CONNECTION DETAIL

SCALE: N.T.S.



RRU GROUNDING

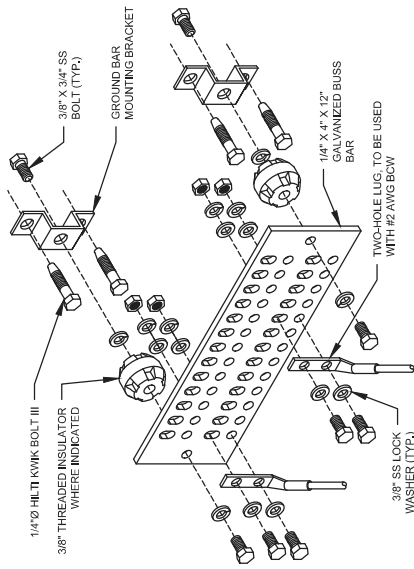
SCALE: N.T.S.



1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH AT&T GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T GROUNDING CHECKLIST, LATEST VERSION, WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

④ TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.



GROUND BAR NOTES

1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC., EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

MAIN GROUND BAR DETAIL

SCALE: N.T.S.



Dewberry
Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
TEL: 617.552.4000
FAX: 617.552.3310

REV.	DESCRIPTION	BY	DATE
△			
△			
△			
△			

ATC SITE NUMBER:
86018

AT&T SITE NAME:
STAMFORD (KATOONA)

AT&T SITE NAME:
STAMFORD WEST

SITE ADDRESS:
168 KATOONA LANE
STAMFORD CT 06902-4573

SEAL:

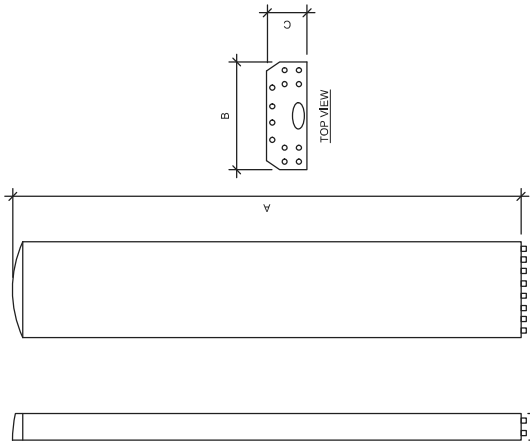
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NOT FOR
CONSTRUCTION



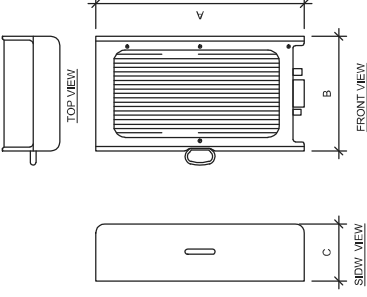
DATE DRAWN:	----
ATC JOB NO:	13683396_D1
CUSTOMER ID:	CTL02135
CUSTOMER #	10034997

SUPPLEMENTAL

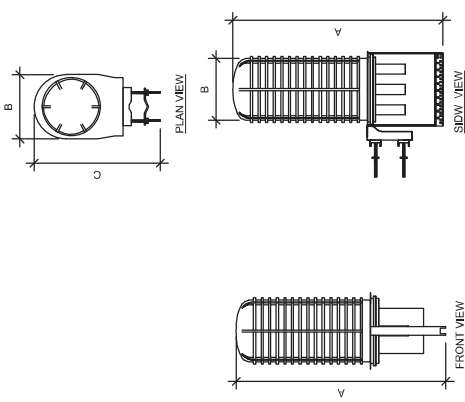
SHEET NUMBER: R-601	REVISION: -
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ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
ARR 6449 N7TD	30.4"	15.9"	8.1"	81.6
ARR6419 N7TG	15.7"	30"	6.7"	70.0
DMP6SR-BURDA	71.2"	20.7"	7.7"	78.4



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
RRUS 4449 BS B12	17.9"	13.2"	9.4"	71.0



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC9-48-60-24-4C-EV	31.4"	18.3"	10.2"	16.0

1

EQUIPMENT SPECIFICATIONS

SCALE: N.T.S.

REV.	DESCRIPTION	BY	DATE
△			
△			
△			
△			
△			

ATC SITE NUMBER:
88018

ATC SITE NAME:
STAMFORD (KATOONA)

AT&T SITE NAME:
STAMFORD WEST

SITE ADDRESS:
168 KATOONA LANE
STAMFORD, CT 06902-4573

SEAL:

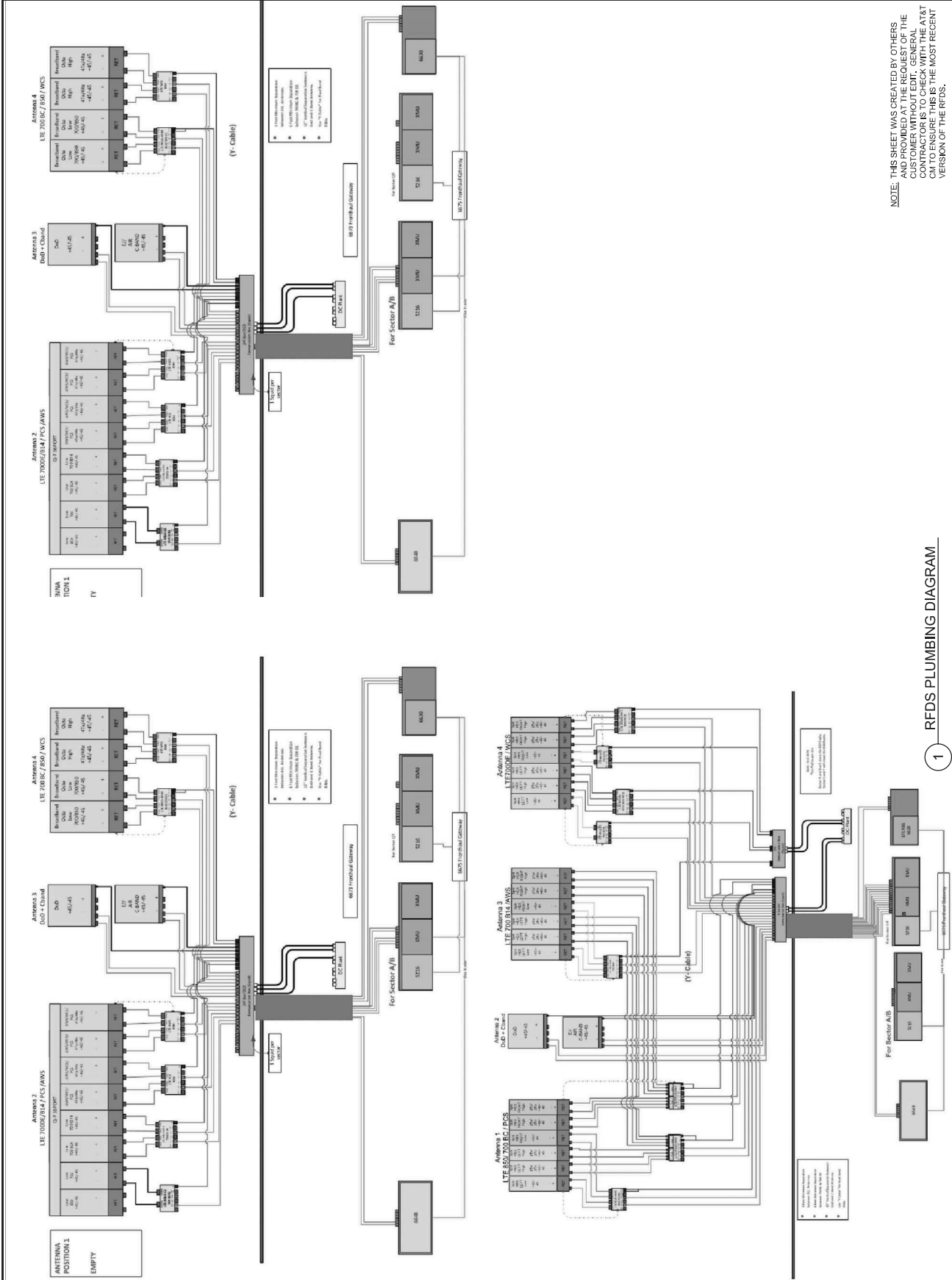
PRELIMINARY:
NOT FOR
CONSTRUCTION



DATE DRAWN:	----
ATC JOB NO:	13683396_D1
CUSTOMER ID:	CTL02135
CUSTOMER #:	10034997

SUPPLEMENTAL

SHEET NUMBER: R-603	REVISION: -
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NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. GENERAL CONTRACTOR IS TO CHECK WITH THE AT&T CM TO ENSURE THIS IS THE MOST RECENT VERSION OF THE RFDS.

EXHIBIT 2

168 CATOONA LANE

Location	168 CATOONA LANE	Mblu	000/ 0370/ / /
Acct#	000-0370	Owner	AMERICAN TOWERS INC
Assessment	\$3,019,920	Appraisal	\$4,314,160
PID	116	Building Count	2

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2021	\$422,560	\$3,891,600	\$4,314,160
Assessment			
Valuation Year	Improvements	Land	Total
2021	\$295,800	\$2,724,120	\$3,019,920

Owner of Record

Owner	AMERICAN TOWERS INC	Sale Price	\$1,040,050
Co-Owner		Book & Page	5456/0339
Address	PO BOX 723597 ATLANTA, GA 31139	Sale Date	02/17/2000

Ownership History

Ownership History			
Owner	Sale Price	Book & Page	Sale Date
AMERICAN TOWERS INC	\$1,040,050	5456/0339	02/17/2000
AMERICAN T & T CO	\$0	1128/0268	03/15/1968

Building Information

Building 1 : Section 1

Year Built: 1968
Living Area: 3,249

Building Attributes	
Field	Description
Style:	Telephone Bldg

Model	Comm/Ind
Grade	C
Stories:	1
Occupancy	1.00
Exterior Wall 1	Reinforc Concr
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	T&G/Rubber
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Concrete Slab
Interior Floor 2	
Heating Fuel	Gas/LP
Heating Type	Hot Air-no Duc
AC Type	Central
Struct Class	
Bldg Use	Industrial MDL-94
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	300C
Heat/AC	Heat/AC Pkgs
Frame Type	Masonry
Baths/Plumbing	None
Ceiling/Wall	Ceil & Wall
Rooms/Prtns	Average
Wall Height	15.00
% Comn Wall	

Building 2 : Section 1

Year Built: 1989
Living Area: 600

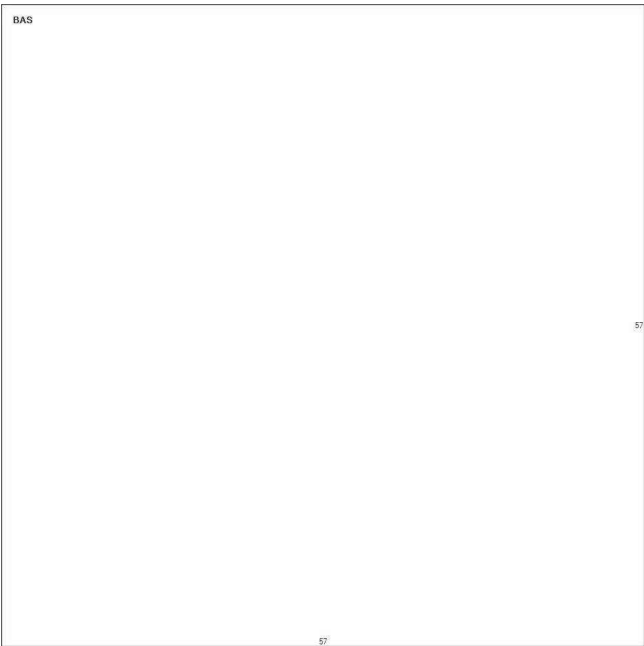
Building Attributes : Bldg 2 of 2	
Field	Description
Style:	Telephone Bldg
Model	Comm/Ind
Grade	C

Building Photo



(<http://images.vgsi.com/photos/StamfordCTPhotos//00\11\89\56.jpg>)

Building Layout



(ParcelSketch.ashx?pid=116&bid=116)

Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	3,249	3,249
		3,249	3,249

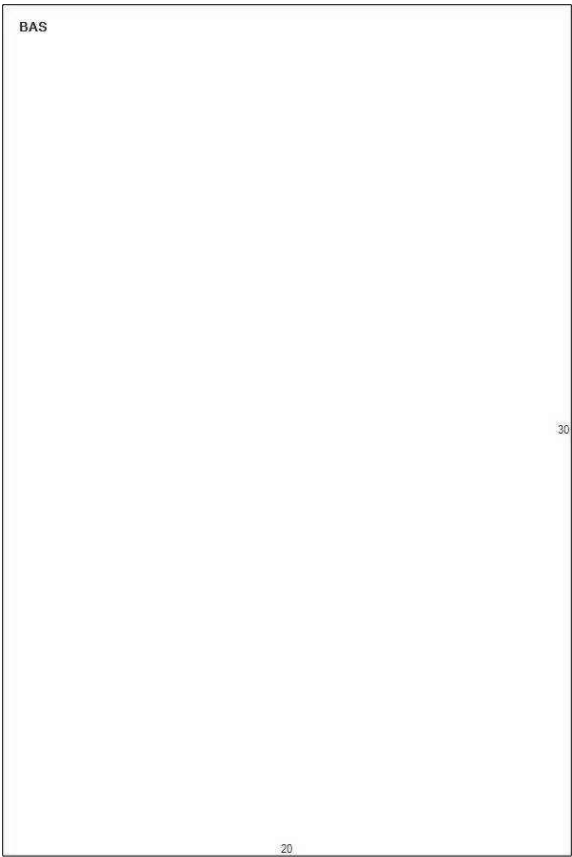
Stories:	1
Occupancy	1.00
Exterior Wall 1	Reinforc Concr
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	T&G/Rubber
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Concrete Slab
Interior Floor 2	
Heating Fuel	Gas/LP
Heating Type	Hot Air-no Duc
AC Type	Central
Struct Class	
Bldg Use	Industrial MDL-94
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	300C
Heat/AC	Heat/AC Pkgs
Frame Type	FireProofSteel
Baths/Plumbing	None
Ceiling/Wall	Ceil & Wall
Rooms/Prtns	Average
Wall Height	10.00
% Comn Wall	

Building Photo



(http://images.vgsi.com/photos/StamfordCTPhotos//00\11\89\57.jpg)

Building Layout



(ParcelSketch.ashx?pid=116&bid=36833)

Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	600	600
		600	600

Extra Features

Extra Features	<u>Legend</u>
----------------	---------------

No Data for Extra Features

Land

Land Use		Land Line Valuation	
Use Code	300C	Size (Acres)	3.64
Description	Industrial MDL-94	Depth	
Zone	MZN	Assessed Value	\$2,724,120
Neighborhood	0300	Appraised Value	\$3,891,600
Alt Land Appr Category	No		

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
AP1	Fence Chn Lk			2400.00 L.F.	\$20,700	1
LP4	Pavng Asphlt			3880.00 S.F	\$4,660	1
CEL1	Cell Tower			1.00 SITES	\$146,250	1
CSDH	Cell Equipment			240.00 S.F.	\$7,300	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$422,560	\$3,891,600	\$4,314,160
2019	\$422,560	\$3,891,600	\$4,314,160
2018	\$422,560	\$3,891,600	\$4,314,160

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$295,800	\$2,724,120	\$3,019,920
2019	\$295,800	\$2,724,120	\$3,019,920
2018	\$295,800	\$2,724,120	\$3,019,920

EXHIBIT 3



AMERICAN TOWER®
CORPORATION



Structural Analysis Report

Structure : 300 ft Self Supported Tower
ATC Site Name : Stamford (Katoona), CT
ATC Asset Number : 88018
Engineering Number : 13683396_C3_04
Proposed Carrier : AT&T MOBILITY
Carrier Site Name : MRCTB051681
Carrier Site Number : N/A
Site Location : 168 Catoona Lane
Stamford, CT 06902-4573
41.052800, -73.563000
County : Fairfield
Date : November 24, 2021
Max Usage : 89%
Result : Pass

Prepared By:
Brad Davenport
Airosmith Engineering

Brad Davenport

Reviewed By:



11/24/2021

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents.....	1
Analysis.....	1
Conclusion.....	1
Existing and Reserved Equipment.....	2-4
Equipment to be Removed	4
Proposed Equipment.....	4
Structure Usages.....	4
Foundations	5
Standard Conditions	6
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 300 ft self supported tower to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower Drawings	CSEI Analysis, ATC Eng. #73123451, dated September 28, 2005
Foundation Drawing	Rose, Chulkoff, and Rose Job #C67229, dated August 9, 1967
Geotechnical Report	Rose, Chulkoff, and Rose Job #C67229, dated August 9, 1967
Modifications	ATC Eng. #42439132, dated September 26, 2008 ATC Eng. #44209632, dated December 2, 2009
Mount Analysis	Maser Consulting Connecticut Project #21777443A, dated June 11, 2021
Mount Modifications	Maser Consulting Connecticut Job #21777443A, dated June 11, 2021

Analysis

The tower was analyzed using Power Line Systems, Inc. tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	117 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
338.0	1	TX RX Systems 101-68-10-X-03N	Platform with Handrails	(1) 1 1/4" Coax	MARCUS COMMUNICATIONS LLC
324.0	1	Generic 15' Omni-Grid		(1) 1 5/8" Coax	
320.0	1	Generic 12' Omni		-	OTHER
311.0	1	Generic Radio/ODU		-	MARCUS COMMUNICATIONS LLC
307.0	1	Generic Radio/ODU		(1) 1/2" Coax	OTHER
	1	Generic 3' HP Dish			
300.0	3	DragonWave Horizon Compact		(5) 7/8" Coax (3) 1/2" Coax	CLEARWIRE CORPORATION
	3	DragonWave A-ANT-18G-2-C			
	1	Generic 4' Std. Dish		(1) 7/8" Coax	MARCUS COMMUNICATIONS LLC
292.0	1	Procom CXL 900-3LW	Side Arm	(1) 7/8" Coax	SIGFOX S.A.
	1	Generic 5" x 3" x 2" Cavity Filter			
	1	Generic Low Noise Amplifier			
275.0	1	Rohde & Schwarz ADD090	Side Arm	(2) 7/8" Coax	US DEPT OF HOMELAND SECURITY
270.0	1	Dielectric TLP-08M-2E	Side Arm	-	OTHER
268.0	2	Alive ATC-GCSXMV100-D7	Leg	(1) 1 5/8" Coax	XM SATELLITE RADIO INC.
265.0	3	Ericsson Radio 4449 B71 B85A	Sector Frame	(3) 1 1/4" (1.25"-31.8mm) Fiber (3) 1 5/8" Hybriflex	T-MOBILE
	3	Ericsson 4424 B25			
	3	Ericsson Air6449 B41			
	3	Ericsson Air 3246 B66			
	3	RFS APXVAARR24_43-U-NA20			
260.0	2	Til-Tek TA-2350-DAB	Side Arm	(1) EW20	XM SATELLITE RADIO INC.
250.0	1	Sinclair SC281-L	Side Arm	(1) 7/8" Coax	US DEPT OF HOMELAND SECURITY
245.0	1	Sinclair SC381-HL	Side Arm	(1) 7/8" Coax	
235.0	3	Powerwave Allgon TT19-08BP111-001	Sector Frame	(10) 1 5/8" Coax	AT&T MOBILITY
	3	CCI BSA-M65R-BUU-H6 (101 lbs)			
	2	Ericsson RRUS E2 B29			
	2	Ericsson RRUS 32 B2			
	2	Ericsson RRUS 8843 B2, B66A			
	2	Ericsson RRUS 4426 B66			
	2	Ericsson RRUS 4415 B30			
	3	Ericsson RRUS 4478 B14			
	1	Ericsson RRUS 4449 B5, B12			
	2	Ericsson RRUS 32 B30 (53 lbs)			
210.0	1	Sinclair SC281-L	Side Arm	(1) 7/8" Coax	US DEPT OF HOMELAND SECURITY
200.0	2	TX RX Systems 101-68-10-X-03N	Side Arm	(2) 1 1/4" Coax	MARCUS COMMUNICATIONS LLC



Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
193.0	2	Antel BCD-87010 ____	Side Arm	(3) 7/8" Coax	SPOK HOLDINGS, INC.
	1	Generic 30" x 30" Reflector			
175.0	1	Generic 12" x 12" Junction Box	Leg	(2) 2" conduit (6) 5/16" (0.31"- 7.9mm) Coax	CLEARWIRE CORPORATION
171.0	-	-	-		
167.0	3	NextNet BTS-2500	T-Arm		
	3	Argus LLPX310R			
165.0	6	Kathrein Scala 800 10504	Leg	(12) 1 5/8" Coax (1) 3/8" Coax	METRO PCS INC
	15	Generic RCU (Remote Control Unit)			
155.0	3	Alcatel-Lucent ALU 800MHz External Notch Filter	Sector Frame	(3) 1 1/4" Hybriflex Cable (1) 1.7" (43.2mm) Hybrid	SPRINT NEXTEL
	3	Alcatel-Lucent 800 MHz RRH			
	6	Alcatel-Lucent 1900MHz RRH			
	3	Nokia 2.5G MAA - AAHC(64T64R)			
	3	RFS APXVSPP18-C-A20			
142.0	1	Antel BCD-87010 ____ 4°	Stand-Off	(1) 7/8" Coax	SENSUS USA INC.
135.0	1	Generic Blank Exhibit	Stand-Off	(1) 1/2" Coax	SENET, INC.
120.0	1	Channel Master Type 120	Stand-Off	(1) 1/2" Coax	SPOK HOLDINGS, INC.
107.0	1	TX RX Systems 101-68-10-X-03N	Side Arm	(1) 1 1/4" Coax	MARCUS COMMUNICATIONS LLC
92.0	3	RFS DB-T1-6Z-8AB-0Z	Sector Frame	(3) 1 5/8" Hybriflex	VERIZON WIRELESS
	4	Quintel QS6656-5D			
	2	JMA Wireless MX06FRO660-03			
	3	Samsung MT6407-77A			
	3	Samsung B2/B66A RRH-BR049			
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung RT4401-48A			
	3	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna			
82.0	3	JMA Wireless MX08FRO665-21	Sector Frame	(1) 1.75" (44.5mm) Hybrid	DISH WIRELESS L.L.C.
	3	Fujitsu TA08025-B604			
	1	Commscope RDIDC-9181-PF-48			
	3	Fujitsu TA08025-B605			
25.0	1	Til-Tek TA-2324-LHCP	Leg	(1) 7/8" Coax	XM SATELLITE RADIO INC.
6.0	1	Trimble Acutime 2000	Leg	(1) 1/2" Coax (1) 1/4" Coax	SPOK HOLDINGS, INC.
	1	Channel Master Type 120			



Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
235.0	1	Raycap DC6-48-60-0-8C-EV	-	(3) 0.39" (10mm) Fiber Trunk (4) 0.74" (18.7mm) 8 AWG 7 (2) 0.78" (19.7mm) 8 AWG 6 (4) 0.96" (24.3mm) Cable	AT&T MOBILITY
	3	Raycap DC6-48-60-18-8F ("Squid")			
	1	Raycap DC6-48-60-18-8C			
	2	Ericsson RRUS 11 B5			
	2	KMW EPBQ-654L8H6-L2			
	3	Powerwave Allgon 7770.00			
	2	Andrew SBNHH-1D65A			
	2	CCI OPA-65R-LCUU-H4			
	2	Ericsson RRUS 11 B12			

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
237.0	3	Ericsson AIR 6449 n77D	Sector Frame	(2) 0.40" (10.3mm) Fiber (7) 0.82" (20.8mm) 8 AWG 6 (3) 1.15" (29.2mm) Cable	AT&T MOBILITY
235.0	2	Ericsson RRUS 4449 B5, B12			
	2	Ericsson RRUS E2 B29			
	2	Raycap DC6-48-60-18-8C-EV			
	2	Raycap DC9-48-60-24-8C-EV			
	2	CCI DMP65R-BU6DA			
	3	CCI BSA-M65R-BUU-H6 (101 lbs)			
	2	Quintel QD6616-7			
233.0	3	Ericsson AIR 6419 N77G			

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed coax in place of the existing AT&T MOBILITY lines.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	73%	Pass
Diagonals	80%	Pass
Lower Diagonals	78%	Pass
Horizontals	59%	Pass
Lower Horizontals	89%	Pass
Anchor Bolts	47%	Pass

**Foundations**

Reaction Component	Analysis Reactions	% of Usage
Uplift (Kips)	318.5	82%
Axial (Kips)	452.0	5%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.



Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

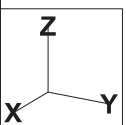
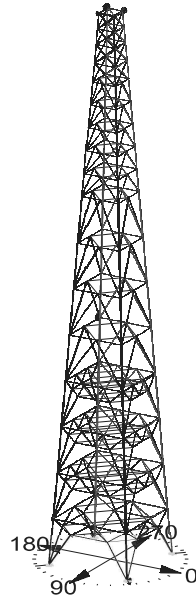
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively “American Tower”) are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.



Project Name : 88018 - Stamford (Katoona), CT
Project Notes: 1369569 c3 c2 - Verizon Wireless
Project File : C:\Users\Brad.Davenport\Desktop\88018 - Stamford (Katoona), CT.tow
Date run : 12:23:16 PM Wednesday, November 24, 2021
by : Tower Version 16.73
Licensed to : American Tower Corp.
Successfully performed nonlinear analysis

Member check option: ANSI/TIA 222-G-1
Connection rupture check: Not Checked
Crossing diagonal check: Fixed
Included angle check: None
Climbing load check: None
Redundant members checked with: Actual Force
Loads from file: C:\Users\Brad.Davenport\Desktop\88018 - Stamford (Katoona), CT.eia

*** Analysis Results:

Maximum element usage is 89.35% for Angle "LH 3X" in load case "W -45"

Foundation Design Forces For All Load Cases:

Note: loads are factored.

Load Case	Foundation Description	Axial Force (kips)	Shear Force (kips)	Bending Moment (ft-k)	Foundation Usage %
W 0	OP	327.40	48.19	5.09	0.00
W 0	OX	317.79	46.80	4.78	0.00
W 0	OXY	-194.88	35.05	5.31	0.00
W 0	OY	-190.60	35.51	5.58	0.00
W 180	OP	-187.46	35.49	5.66	0.00
W 180	OX	-188.03	34.76	5.43	0.00
W 180	OXY	314.60	46.83	4.89	0.00
W 180	OY	320.60	47.71	5.16	0.00
W 45	OP	452.00	63.49	4.59	0.00
W 45	OX	62.70	22.04	5.57	0.00
W 45	OXY	-318.46	52.06	5.88	0.00
W 45	OY	63.48	21.94	5.53	0.00
W -45	OP	68.58	23.47	5.88	0.00
W -45	OX	444.20	62.62	4.62	0.00
W -45	OXY	61.04	21.12	5.31	0.00
W -45	OY	-314.11	51.89	5.96	0.00
W 90	OP	327.84	48.49	5.14	0.00
W 90	OX	91.06	35.71	5.64	0.00
W 90	OXY	-194.55	35.02	5.31	0.00
W 90	OY	317.48	46.80	4.77	0.00
W -90	OP	-188.16	35.92	5.69	0.00
W -90	OX	-322.06	47.91	5.21	0.00
W -90	OXY	314.42	46.77	4.85	0.00
W -90	OY	-189.61	34.72	5.39	0.00
W 0 Ice	OP	171.13	21.40	1.47	0.00
W 0 Ice	OX	165.56	20.83	1.34	0.00
W 0 Ice	OXY	21.82	3.57	3.03	0.00
W 0 Ice	OY	26.17	3.65	3.12	0.00
W 180 Ice	OP	31.01	3.86	3.20	0.00
W 180 Ice	OX	27.53	3.78	3.15	0.00
W 180 Ice	OXY	160.58	20.74	1.32	0.00
W 180 Ice	OY	-155.55	21.08	1.48	0.00
W 45 Ice	OP	205.81	26.44	0.53	0.00
W 45 Ice	OX	95.95	11.15	2.43	0.00
W 45 Ice	OXY	-12.50	6.38	3.38	0.00
W 45 Ice	OY	95.40	11.14	2.41	0.00
W -45 Ice	OP	100.73	11.70	2.53	0.00
W -45 Ice	OX	200.65	26.03	0.51	0.00
W -45 Ice	OXY	91.38	11.05	2.33	0.00
W -45 Ice	OY	-8.05	6.24	3.47	0.00
W 90 Ice	OP	171.25	21.47	1.49	0.00
W 90 Ice	OX	26.75	3.70	3.14	0.00
W 90 Ice	OXY	21.91	3.98	3.03	0.00
W 90 Ice	OY	164.75	20.79	1.32	0.00
W -90 Ice	OP	30.84	3.91	3.20	0.00
W -90 Ice	OX	166.58	21.16	1.50	0.00
W -90 Ice	OXY	160.52	20.72	1.30	0.00
W -90 Ice	OY	26.73	3.75	3.14	0.00

Summary of Joint Support Reactions For All Load Cases:

Load Case	Joint Label	Long. Force (kips)	Trans. Force (kips)	Vert. Force (kips)	Shear Force (ft-k)	Trans. Moment (ft-k)	Long. Moment (ft-k)	Bending Moment (ft-k)	Vert. Moment (ft-k)	Usage %
W 0	OP	-43.33	-21.08	-327.40	48.19	-0.86	-5.01	5.09	-2.01	0.00
W 0	OX	-41.60	21.44	-317.79	46.80	0.56	-4.75	4.78	2.13	0.00
W 0	OXY	-32.20	-13.84	-194.88	35.05	0.48	-5.29	5.31	1.96	0.00
W 0	OY	-33.06	12.96	-190.60	35.51	-0.35	-5.57	5.58	-1.93	0.00
W 180	OP	33.14	12.70	187.46	35.49	-0.34	5.65	5.66	1.83	0.00
W 180	OX	32.03	13.36	188.03	34.76	0.49	5.43	5.43	-1.97	0.00
W 180	OXY	41.71	21.30	-314.60	46.83	0.54	4.86	4.89	-2.14	0.00
W 180	OY	43.03	-20.61	-320.60	47.71	-0.87	5.09	5.16	2.14	0.00
W 45	OP	-44.78	-45.02	-452.00	63.49	3.27	-3.21	4.59	0.13	0.00
W 45	OX	-19.16	10.89	-62.70	22.04	4.40	-3.43	5.57	2.97	0.00
W 45	OXY	-36.82	-36.81	318.46	52.06	4.15	-4.16	5.88	-0.01	0.00
W 45	OY	-10.61	-19.20	-63.48	21.94	3.43	-4.33	5.53	-2.98	0.00
W -45	OP	-20.39	11.61	-68.58	23.47	-4.62	3.64	5.88	3.03	0.00
W -45	OX	-43.41	45.13	-444.20	62.62	-3.50	-3.02	4.62	0.01	0.00
W -45	OXY	-9.94	18.63	-61.04	21.12	-3.34	-4.13	5.31	3.00	0.00
W -45	OY	-37.30	36.07	314.11	51.89	-4.06	-4.36	5.66	0.03	0.00
W 90	OP	-20.97	-43.72	-327.84	48.49	5.06	0.90	5.14	2.13	0.00
W 90	OX	12.91	-33.30	191.06	35.71	5.63	0.33	5.64	1.92	0.00
W 90	OXY	-13.90	-32.14	194.55	35.02	5.28	-0.51	5.31	-1.97	0.00
W 90	OY	21.54	11.54	-317.48	46.80	4.74	-0.52	4.77	2.13	0.00
W -90	OP	12.65	33.61	188.16	35.92	-5.68	0.31	5.69	-1.94	0.00
W -90	OX	-20.55	43.27	-322.06	47.91	-5.13	0.91	5.21	-2.14	0.00
W -90	OXY	21.44	41.56	-314.42	46.77	-4.82	-0.50	4.85	2.14	0.00
W -90	OY	-13.50	31.98	-188.61	34.72	-0.57	-0.52	5.39	1.98	0.00
W 0 Ice	OP	-17.67	-12.07	-171.13	21.40	-1.47	-0.01	1.47	-0.51	0.00
W 0 Ice	OX	-16.93	12.12	-165.56	20.83	1.34	0.08	1.34	0.52	0.00
W 0 Ice	OXY	-3.14	1.70	-21.82	3.57	1.40	-2.69	3.03	0.52	0.00
W 0 Ice	OY	-3.13	-1.87	-26.17	3.65	-1.45	-2.77	3.12	-0.50	0.00
W 180 Ice	OP	3.11	-2.29	-31.01	3.86	-1.43	2.86	3.20	0.50	0.00
W 180 Ice	OX	3.16	2.07	-31.03	3.78	1.41	2.82	3.15	-0.54	0.00
W 180 Ice	OXY	17.00	11.89	-160.58	20.74	1.31	0.05	1.32	-0.54	0.00
W 180 Ice	OY	17.56	-11.66	-165.55	21.08	-1.48	0.10	1.48	0.55	0.00
W 45 Ice	OP	-18.65	-18.74	-205.81	26.44	-0.36	0.39	0.53	0.02	0.00
W 45 Ice	OX	-45.66	3.27	-95.95	11.15	2.39	0.43	2.43	0.77	0.00
W 45 Ice	OXY	-4.51	-4.52	12.50	6.38	2.40	-2.39	3.38	-0.00	0.00
W 45 Ice	OY	3.31	-10.63	-95.40	11.14	-0.43	-2.37	2.41	-0.77	0.00
W -45 Ice	OP	-41.27	-3.15	-100.73	11.70	-2.51	0.36	2.53	-0.79	0.00
W -45 Ice	OX	-18.07	18.74	-200.65	26.03	0.25	0.45	0.51	-0.01	0.00
W -45 Ice	OXY	3.32	10.54	-91.38	11.05	0.36	-2.30	2.33	0.78	0.00
W -45 Ice	OY	-4.43	4.40	8.09	6.24	-2.46	-2.45	3.47	0.02	0.00
W 90 Ice	OP	-12.02	-17.79	-171.25	21.47	0.03	1.49	1.49	0.54	0.00
W 90 Ice	OX	-1.91	-3.17	-26.75	3.70	2.79	1.45	3.14	0.50	0.00
W 90 Ice	OXY	1.71	-3.15	-21.91	3.58	2.69	-1.39	3.03	-0.53	0.00
W 90 Ice	OY	12.13	-16.89	164.75	20.79	-0.08	-1.32	1.32	-0.52	0.00
W -90 Ice	OP	-2.27	3.18	-30.84	3.91	-2.86	1.43	3.20	-0.52	0.00
W -90 Ice	OX	-11.67	17.65	-166.58	21.16	-0.10	1.50	1.50	-0.55	0.00
W -90 Ice	OXY	11.94	16.93	-160.52	20.72	-0.03	-1.30	1.30	0.54	0.00
W -90 Ice	OY	2.01	3.16	-26.73	3.75	-2.80	-1.41	3.14	0.54	0.00

Summary of Joint Support Reactions For All Load Cases in Direction of Leg:

Load Case	Support Origin	Leg	Force In Leg	Residual Shear	Residual Shear	Residual Shear	Residual Shear	Total Shear	Total Long.	Total Trans.	Total Vert.
Joint	Member	Leg Dir.	Perpendicular	Horizontal	Horizontal	Horizontal	Horizontal	Force	Force	Force	Force
			(kips)	To Leg	To Leg - Res.	To Leg - Res.	To Leg - Res.	(kips)	(kips)	(kips)	(kips)
W 0	OP	IP	L IP	330.117	23.110	23.158	23.140	0.893	-43.33	-21.08	-327.40
W 0	OX	IX	L IX	320.460	22.028	22.077	22.000	-1.840	-41.60	21.44	-317.79
W 0	OXY	IXY	L IX	196.973	20.269	20.269	20.181	1.824	-32.20	-13.84	-194.88
W 0	OY	LY	L Y	-192.702	21.291	21.336	21.302	-1.208	-33.06	12.96	-190.60
W 180	OP	IP	L IP	-189.568	21.564	21.610	-21.560	-1.135	33.14	12.70	187.46
W 180	OX	IX	L IX	-190.111	20.524	20.570	-20.494	1.766	32.03	13.36	188.03
W 180	OXY	IXY	L IX	117.284	22.338	22.368	22.308	-1.904	41.71	21.30	-314.60
W 180	OY	LY	L Y	323.296	23.227	23.274	-23.256	0.835	43.03	-20.61	-320.60
W 45	OP	IP	L IP	455.803	23.984	24.075	16.904	17.143	-44.78	-45.02	-452.00
W 45	OX	IX	L IX	62.972	21.252	21.252	21.252	14.757	-19.16	-10.89	-62.70
W 45	OXY	IXY	L IX	-321.783	24.194	24.285	17.178	17.167	-36.82	-36.81	318.46
W 45	OY	LY	L Y	63.765	21.088	21.088	14.525	15.289	-10.61	-19.20	-63.48
W -45	OP	IP	L IP	68.858	22.633	22.633	16.163	-15.843	-20.39	11.61	-68.58
W -45	OX	IX	L IX	447.961	23.808	23.898	16.017	-17.736	-45.41	45.13	-444.20
W -45	OXY	IXY	L IX	61.347	20.221	20.221	13.707	-14.866	-9.94	18.63	-61.04
W -45	OY	LY	L Y	-317.434	24.414	24.506	17.933	-16.703	-37.30	36.07	314.11
W 90	OP	IP	L IP	330.572	23.467	23.514	0.756	23.502	-20.97	-43.72	-327.84
W 90	OX	IX	L IX	-193.177	21.499	21.544	-1.130	21.515	12.91	-33.30	191.06
W 90	OXY	IXY	L IX	-196.639	20.190	20.236	1.900	20.146	-13.90	-32.14	194.55
W 90	OY	LY	L Y	320.155	22.001	22.050	-1.974	21.961	21.55	-41.54	-317.48
W -90	OP	IP	L IP	-190.289	21.890	21.936	-1.048	-22.011	12.65	33.61	188.16
W -90	OX	IX	L IX	324.761	23.377	23.424	0.669	-23.413	-20.55	43.27	-322.06

W -90	XY	XY	L 1XY	317.102	22.218	22.267	-2.051	-22.173	21.44	41.56	-314.42
W -90	XY	XY	L 1Y	20.903	20.396	20.442	-20.356	-13.50	31.99	188.41	
W 0 Ice	OP	IP	L 1P	172.309	7.260	7.120	1.514	-17.67	-12.07	-171.13	
W 0 Ice	OX	IX	L 1X	166.714	6.970	6.990	6.723	-1.915	-16.93	12.12	-165.56
W 0 Ice	XY	XY	L 1XY	21.645	4.496	4.503	4.489	-0.357	-3.14	1.70	-21.82
W 0 Ice	XY	XY	L 1Y	26.576	4.746	4.754	0.252	-3.13	-1.87	-26.17	
W 180 Ice	OP	IP	L 1P	30.839	5.029	5.037	-5.023	0.373	3.11	-2.29	-31.01
W 180 Ice	OX	IX	L 1X	27.361	4.866	4.874	-4.859	-0.376	3.16	2.07	-27.53
W 180 Ice	XY	XY	L 1XY	161.748	150.698	150.732	-1.980	11.00	11.88	-160.58	
W 180 Ice	XY	XY	L 1Y	166.716	7.477	7.496	-7.353	1.456	17.56	-11.66	-165.55
W 45 Ice	OP	IP	L 1P	207.331	8.457	8.489	5.961	6.044	-18.65	-18.74	-205.81
W 45 Ice	OX	IX	L 1X	96.444	5.433	5.434	4.745	2.648	-10.66	3.27	-95.95
W 45 Ice	XY	XY	L 1XY	26.576	5.294	5.294	3.737	-6.350	-4.51	-4.52	12.50
W 45 Ice	XY	XY	L 1Y	95.893	5.397	5.399	2.568	4.749	3.31	-10.63	-95.40
W -45 Ice	OP	IP	L 1P	101.232	5.906	5.908	5.054	-3.059	-11.27	-3.15	-100.73
W -45 Ice	OX	IX	L 1X	202.499	5.702	5.709	5.709	-0.357	-3.14	1.70	-21.82
W -45 Ice	XY	XY	L 1XY	91.889	5.419	5.422	2.316	-4.902	3.32	10.54	-91.38
W -45 Ice	XY	XY	L 1Y	-8.603	5.513	5.534	3.928	-3.899	-4.43	4.40	8.09
W 90 Ice	OP	IP	L 1P	172.431	7.353	7.373	1.456	7.227	-12.02	-17.79	-171.25
W 90 Ice	OX	IX	L 1X	167.754	7.490	7.510	1.397	-7.379	-11.67	17.65	-166.58
W 90 Ice	XY	XY	L 1XY	161.682	7.304	7.325	-2.039	-7.036	11.94	16.93	-160.52
W 90 Ice	XY	XY	L 1Y	26.560	4.814	4.821	-0.364	-4.808	2.01	3.16	-26.73

Overturning Moment Summary For All Load Cases:

Load Case	Transverse Moment (ft-k)	Longitudinal Moment (ft-k)	Torsional Moment (ft-k)	Resultant Transverse Force (kips)	Longitudinal Force (kips)	Vertical Force (kips)
W 0	315.548	-23705.243	87.860	23707.397	0.526	150.186
W 180	151.009	-23245.933	-85.095	23246.423	-0.033	-149.960
W 45	17738.424	-17702.731	-11.178	25060.693	111.915	111.363
W -45	-17267.980	-17614.525	146.775	24666.873	-111.445	111.048
W 90	23711.265	-318.393	-112.643	23713.403	150.698	0.406
W -90	-23304.635	-186.043	116.896	23305.377	-150.436	-0.037
W 0 Ice	229.245	-6640.156	21.922	6644.078	0.106	-40.883
W 180 Ice	154.126	-25.007	-21.532	6157.607	-0.007	-18.838
W 45 Ice	5008.341	-5033.816	-3.343	7100.900	30.619	30.508
W -45 Ice	-4586.043	-5015.889	36.524	6796.391	-30.520	30.446
W 90 Ice	6608.654	-260.757	-28.388	6613.797	40.983	0.082
W -90 Ice	-6199.194	-233.967	29.193	6203.608	-40.928	-0.008

EIA Sections Information:

Section Label	Top Z (ft)	Bottom Z (ft)	Joint Count	Member Count	Top Width (ft)	Bottom Width (ft)	Gross Area (ft ²)	Face Adj Factor	Face Ar Factor	Dead Load Factor
291.4-300.0	300.000	291.417	8	20	9.00	10.06	81.79	1.1220	1.1220	1.346
282.8-291.4	291.417	282.834	8	16	10.06	11.12	90.88	1.2150	1.2150	1.458
272.1-282.8	282.834	272.667	8	16	11.12	12.37	119.40	1.1970	1.1970	1.436
262.5-272.1	272.667	262.500	12	24	12.37	13.63	131.40	1.2030	1.2030	1.444
250.0-262.5	262.500	250.000	16	24	13.63	15.17	179.95	1.2010	1.2010	1.441
237.5-250.0	250.000	237.500	16	24	15.17	16.71	199.22	1.2070	1.2070	1.449
225.0-237.5	237.500	225.000	16	24	16.71	18.25	218.49	1.2130	1.2130	1.456
212.5-225.0	225.000	212.500	16	24	18.25	19.79	237.76	1.2190	1.2190	1.463
200.0-212.5	212.500	200.000	16	24	19.79	21.33	257.03	1.2250	1.2250	1.470
175.0-200.0	200.000	175.000	16	24	21.33	24.42	271.87	1.2320	1.2320	1.479
150.0-175.0	175.000	150.000	16	24	24.42	26.96	285.62	1.2370	1.2370	1.483
125.0-150.0	150.000	125.000	16	24	27.50	30.58	300.00	1.2660	1.2660	1.519
100.0-125.0	125.000	100.000	20	32	30.58	33.67	330.13	1.2790	1.2790	1.535
75.0-100.0	100.000	75.000	36	72	33.67	36.75	360.21	1.2760	1.2760	1.531
50.0-75.0	75.000	50.000	36	72	36.75	39.83	387.29	1.2790	1.2790	1.533
25.0-50.0	50.000	25.000	32	68	39.83	42.92	404.38	1.2820	1.2820	1.539
0.00-25.00	25.000	0.000	20	40	42.92	46.00	431.46	1.3210	1.3210	1.586

Printed capacities do not include the strength factor entered for each load case.
The Group Summary reports on the member and load case that resulted in maximum usage which may not necessarily be the same as that which produces maximum force.

Group Summary (Compression Portion):

Group Label	Group Angle Desc. Type	Angle Size	Steel Strength	Max Usage Strength	Max Use Control	Comp. Member	Comp. Force	Comp. Control	Capacity Load Case	L/r	Connect. In	Connect. Shear	Comp. Capacity	RLX	RLY	RLZ	L/r	Length	Comp. Member	No. Of Bolts	No. Of Comp.
			(ksi)	%		Comp. %	(kips)		(kips)				(kips)					(ft)			
Leg S1	L 8" x 8" x 1.125"	SAR	RX8X1.13	36.0	72.67	Comp 72.67	L 1P	-397.412	W 45	546.848	0.000	0.000	0.000	0.281	0.281	0.281	54.30	54.30	25.095	1	0
Leg S2	L 8" x 8" x 1.125"	SAR	RX8X1.13	36.0	61.86	Comp 61.86	L 2P	-338.262	W 45	546.848	0.000	0.000	0.000	0.281	0.281	0.281	54.30	54.30	25.095	1	0
Leg S3	L 8" x 8" x 1.125"	SAR	RX8X1.13	36.0	53.54	Comp 53.54	L 3P	-292.794	W 45	546.848	0.000	0.000	0.000	0.281	0.281	0.281	54.30	54.30	25.095	1	0
Leg S4	L 8" x 8" x 1"	SAR	RX8X1	36.0	50.12	Comp 50.12	L 4P	-245.774	W 45	490.403	0.000	0.000	0.000	0.281	0.281	0.281	54.30	54.30	25.095	1	0
Leg S5	L 8" x 8" x 0.875"	SAR	RX8X0.88	36.0	56.62	Comp 56.62	L 5P	-235.182	W 45	415.372	0.000	0.000	0.000	0.333	0.333	0.333	63.93	63.93	25.095	1	0
Leg S6	L 8" x 8" x 0.875"	SAR	RX8X0.88	36.0	47.15	Comp 47.15	L 6P	-195.835	W 45	415.372	0.000	0.000	0.000	0.333	0.333	0.333	63.93	63.93	25.095	1	0
Leg S7	L 8" x 8" x 0.75"	SAR	RX8X0.75	36.0	43.82	Comp 43.82	L 7P	-157.489	W 45	359.367	0.000	0.000	0.000	0.333	0.333	0.333	63.93	63.93	25.095	1	0
Leg S8	L 8" x 8" x 0.625"	SAR	RX8X0.63	36.0	40.34	Comp 40.34	L 8P	-121.939	W 45	302.314	0.000	0.000	0.000	0.333	0.333	0.333	63.93	63.93	25.095	1	0
Leg S9	L 6" x 6" x 0.75"	SAR	RX6X0.75	36.0	39.20	Comp 39.20	L 9P	-103.706	W 45	264.581	0.000	0.000	0.000	0.500	0.500	0.500	64.35	64.35	12.547	1	0
Leg S10	L 6" x 6" x 0.75"	SAR	RX6X0.75	36.0	32.08	Comp 32.08	L 10P	-84.872	W 45	264.581	0.000	0.000	0.000	0.500	0.500	0.500	64.35	64.35	12.547	1	0
Leg S11	L 6" x 6" x 0.5625"	SAR	RX6X0.56	36.0	33.78	Comp 33.78	L 11P	-68.294	W 45	202.144	0.000	0.000	0.000	0.500	0.500	0.500	63.80	63.80	12.547	1	0
Leg S12	L 6" x 6" x 0.5625"	SAR	RX6X0.56	36.0	25.63	Comp 25.63	L 12P	-51.814	W 45	202.144	0.000	0.000	0.000	0.500	0.500	0.500	63.80	63.80	12.547	1	0
Leg S13	L 6" x 6" x 0.4375"	SAR	RX6X0.44	36.0	22.92	Comp 22.92	L 13P	-36.492	W 45	159.219	0.000	0.000	0.000	0.500	0.500	0.500	63.26	63.26	12.547	1	0
Leg S14	L 5" x 5" x 0.4375"	SAR	SX5X0.44	36.0	21.04	Comp 21.04	L 14P	-27.856	W 45	132.418	0.000	0.000	0.000	0.500	0.500	0.500	62.10	62.10	10.206	1	0
Leg S15	L 5" x 5" x 0.4375"	SAR	SX5X0.44	36.0	13.84	Comp 13.84	L 15P	-18.324	W 45	132.418	0.000	0.000	0.000	0.500	0.500	0.500	62.10	62.10	10.206	1	0
Leg S16	L 5" x 5" x 0.3125"	SAR	SX5X0.31	36.0	9.88	Comp 9.88	L 16P	-9.556	W 45	96.705	0.000	0.000	0.000	0.500	0.500	0.500	52.01	52.01	8.616	1	0
Leg S17	L 5" x 5" x 0.3125"	SAR	SX5X0.31	36.0	4.96	Comp 4.96	L 17P	-4.798	W 45	96.705	0.000	0.000	0.000	0.500	0.500	0.500	52.01	52.01	8.616	1	0
Diag S1	B/B 13"x4"x0.3125"	DAS	4X3X0.31	36.0	57.37	Comp 57.37	D 2X	-45.334	W -90	79.015	0.000	0.000	0.000	0.310	0.920	0.310	124.62	122.84	21.786	6	0
Diag S2	B/B 13"x4"x0.25"	DAS	4X3X0.25	36.0	62.41	Comp 62.41	D 3X	-50.608	W -90	81.463	0.000	0.000	0.000	0.310	0.620	0.310	94.31	94.31	20.916	1	0
Diag S3	B/B 12.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	79.53	Comp 79.53	D 6X	-60.046	W -90	62.929	0.000	0.000	0.000	0.333	0.667	0.333	111.82	111.82	20.204	1	0
Diag S4	B/B 12.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	79.42	Comp 79.42	D 8X	-59.586	W -90	62.438	0.000	0.000	0.000	0.333	0.667	0.333	109.94	109.94	20.204	1	0
Diag S5	B/B 12.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	79.42	Comp 79.42	D 9X	-56.194	W -90	62.438	0.000	0.000	0.000	0.333	0.667	0.333	109.94	109.94	20.204	1	0
Diag S6	B/B 13"x4"x0.25"	DAS	4X3X0.25	36.0	51.36	Comp 51.36	D 11X	-30.152	W -90	58.704	0.000	0.000	0.000	0.333	0.667	0.333	131.00	126.76	29.346	6	0
Diag S7	B/B 13"x4"x0.25"	DAS	4X3X0.25	36.0	45.81	Comp 45.81	D 13X	-27.985	W -90	61.090	0.000	0.000	0.000	0.333	0.667	0.333	127.55	124.64	28.573	6	0
Diag S8	B/B 13"x4"x0.25"	DAS	3.5X3.5X0.25	36.0	50.13	Comp 50.13	D 15X	-26.445	W -90	52.748	0.000	0.000	0.000	0.333	0.667	0.333	140.20	132.43	27.864	6	0
Diag S9	B/B 12.5"x2.5"x0.25"	DAS	2.5X2.5X0.25	36.0	26.89	Comp 26.89	D 17X	-15.252	W -90	56.716	0.000	0.000	0.000	0.320	0.920	0.320	97.87	97.87	14.469	1	0
Diag S10	B/B 12.5"x2.5"x0.25"	DAS	2.5X2.5X0.25	36.0	47.33	Comp 47.33	D 19P	-14.046	W -90	29.675	0.000	0.000	0.000	0.500	1.000	0.500	160.96	145.19	15.962	6	0
Diag S11	B/B 12.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	69.98	Comp 69.98	D 21P	-14.084	W -90	20.126	0.000	0.000	0.000	0.480	0.960	0.480	190.92	163.15	15.495	6	0
Diag S12	B/B 12.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	69.97	Comp 69.97	D 23P	-16.972	W -90	19.733	0.000	0.000	0.000	0.480	0.960	0.480	190.92	163.15	15.495	6	0
Diag S13	B/B 12.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	54.94	Comp 54.94	D 26P	-11.358	W -90	20.673	0.000	0.000	0.000	0.500	1.000	0.500	187.90	161.76	14.641	6	0
Diag S14	B 1.3" x 3.5" x 0.25"	SAR	3.5X3.5X0.25	36.0	26.06	Comp 26.06	D 28X	-6.266	W -90	24.047	0.000	0.000	0.000	0.520	0.520	0.520	148.48	141.74	16.514	1	0
Diag S15	L 3.5" x 3.5" x 0.25"	SAR	3.5X3.5X0.25	36.0	17.92	Comp 17.92	D 29P	-4.744	W -90	26.469	0.000	0.000	0.000	0.520	0.520	0.520	139.75	135.11	15.546	5	0
Diag S16	B 1.3" x 3.5" x 0.25"	SAR	3.5X3.5X0.25	36.0	17.92	Comp 17.92	D 31P	-2.194	W -90	21.094	0.000	0.000	0.000	0.520	0.520	0.520	143.77	138.67	15.546	5	0
Diag S17	L 1" x 3" x 0.25"	SAR	3X3X0.25	36.0	10.22	Comp 10.22	D 33P	-2.431	W -90	18.273	0.000	0.000	0.000	0.520	0.520	0.520	135.30	131.69	12.836	5	0
Horiz 1	B/B 13"x5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	58.71	Comp 58.71	H 1P	-36.088	W -90	61.778	0.000	0.000	0.000	0.480	0.480	0.480	113.39	113.39	21.458	1	0
Horiz 2	B/B 13"x5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	62.93	Comp 62.93	H 3P	-36.293	W -90	86.600	0.000	0.000	0.000	0.480	0.480	0.480	113.39	113.39	21.458	1	0
Horiz 3	B/B 13"x5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	42.05	Tens 38.84	H 5P	-34.109	W -90	88.638	0.000	0.000	0.000	0.500	0.500	0.500	67.43	67.43	12.250	1	0
Horiz 4	B/B 13"x5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	54.67	Comp 54.67	H 7P	-31.421	W -90	57.471	0.000	0.000	0.000	0.470	0.490	0.470	112.02	112.02	11.222	1	0
Horiz 5	B/B 13"x5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	54.74	Comp 54.74	H 9P	-15.003	W -90	57.471	0.000	0.000	0.000	0.470	0.490	0.470	112.02	112.02	11.222	1	0
Horiz 6	B/B 13"x5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	42.94	Comp 42.94	H 11P	-13.685	W -90	31.873	0.000	0.000	0.000	1.000	1.000	1.000	174.60	153.88	13.950	6	0
Horiz 7	B/B 12.5"x2.5"x0.25"	DAS	2.5X2.5X0.25	36.0	46.00	Comp 46.00	H 13P	-11.728	W -90	25.495	0.000	0.000	0.000	1.000	1.000	1.000	190.50	163.36	12.208	6	0
Horiz 8	B/B 12.5"x2.5"x0.25"	DAS	2.5X2.5X0.25	36.0	33.91	Comp 33.91	H 15P	-10.452	W -90	30.825	0.000	0.000	0.000	1.000	1.000	1.000	166.45	148.57	10.667	6	0
Horiz 9	B/B 12.5"x2.5"x0.25"	DAS	2.5X2.5X0.25	36.0	26.89	Comp 26.89	H 17P	-6.249	W -90	34.200	0.000	0.000	0.000	1.000	1.000	1.000	149.20	134.77	9.890	6	0
Horiz 10	B/B 12.5"x2.5"x0.25"	DAS	2.5X2.5X0.25	36.0	20.70	Comp 20.70	H 19X	-7.868	W -90	38.019	0.000	0.000	0.000	1.000	1.000	1.000	142.39	133.77	9.125	6	0
Horiz 11	B/B 12.5"x2.5"x0.25"	DAS	2.5X2.5X0.25	36.0	18.09	Comp 18.09	H 21X	-7.708	W -90	42.559	0.000	0.000	0.000	1.000	1.000	1.000	130.30	126.37	8.354	6	0
Horiz 12	B/B 12.5"x2.5"x0.25"	DAS	2.5X2.5X0.25	36.0	16.13	Comp 16.13	H 23P	-6.431	W -90	40.340	0.000	0.000	0.000	1.000	1.000	1.000	124.40	120.40	7.844	6	0
Horiz 13	B/B 12.5"x2.5"x0.25"	DAS	2.5X2.5X0.25	36.0	9.32	Comp 9.32	H 26P	-5.141	W -90	45.196	0.000	0.000	0.000	1.000	1.000	1.000	106.31	106.31	6.813	1	0
Horiz 14	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	6.02	Tens 6.01	H 27P	-0.563	W -90	11.737	0.000	0.000	0.000	0.500	1.000	0.500	197.15	178.83	12.731	5	0
Horiz 15	B/B 13"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	1.1	Tens 0.51	H 29P	-0.270	W -90	53.370	0.000	0.000	0.000	0.500	1.000	0.500	118.06	118.06	11.117	1	0
Horiz 16	L 1" x 3" x 0.25"	SAU	3X3X0.25	36.0	0.00	Comp 0.00	H 32X	-0.000	W -90	16.418	0.000	0.000	0.000	0.500	1.000	0.500	70.75	70.75	9.059	5	0
Horiz 17	L 8"x11.5"	CHN	CX811.5	36.0	1.00	Comp 1.00	H 33P	-0.296	W -90	29.726	0.000	0.000	0.000	0.870	0.870	0.870	153.35	140.51	11.516	6	0
LD 1	B/B 13"x5"x2.5"x0.25"	DAL	3X2X0.25	36.0	49.97	Comp 49.97	LD 1X	-18.222	W -90	36.466	0.000	0.000	0.000	0.850	0.850	0.850	146.57	136.57	12.836	6	0
LD 2	B/B 13"x5"x2.5"x0.25"	DAL	3X2X0.25	36.0	47.79	Comp 47.79	LD 3X	-18.816	W -90	36.466	0.000	0.000	0.000	0.850	0.850	0.850	146.57	136.57	12.836	6	0
LD 3	B/B 12.5"x2"x0.25"	DAL	2.5X2X0.25	36.0</																	

Leg 52	L 8" x 8" x 1.125"	SAB	8X8X1.13	36.0	61.86	Comp	43.27	L 2XY	234.535	W 45	542.051	0.000	0.000	0.000	25.095	0	0.000	0
Leg 53	L 8" x 8" x 1.125"	SAB	8X8X1.13	36.0	53.54	Comp	37.38	202.611	W 45	542.051	0.000	0.000	0.000	25.095	0	0.000	0	
Leg 54	L 8" x 8" x 1"	SAB	8X8X1	36.0	50.12	Comp	35.22	171.151	W 45	485.999	0.000	0.000	0.000	25.095	0	0.000	0	
Leg 55	L 8" x 8" x 0.875"	SAB	8X8X0.88	36.0	56.62	Comp	39.01	167.226	W 45	428.651	0.000	0.000	0.000	25.095	0	0.000	0	
Leg 56	L 8" x 8" x 0.875"	SAB	8X8X0.88	36.0	47.15	Comp	32.10	137.586	W 45	428.651	0.000	0.000	0.000	25.095	0	0.000	0	
Leg 57	L 8" x 8" x 0.75"	SAB	8X8X0.75	36.0	43.82	Comp	29.40	106.979	W 45	370.655	0.000	0.000	0.000	25.095	0	0.000	0	
Leg 58	L 8" x 8" x 0.625"	SAB	8X8X0.63	36.0	40.34	Comp	25.95	80.784	W 45	311.364	0.000	0.000	0.000	25.095	0	0.000	0	
Leg 59	L 6" x 6" x 0.75"	SAB	6X6X0.75	36.0	39.20	Comp	24.71	67.581	W 45	273.456	0.000	0.000	0.000	12.547	0	0.000	0	
Leg S10	L 6" x 6" x 0.75"	SAB	6X6X0.75	36.0	32.08	Comp	19.85	54.269	W 45	213.456	0.000	0.000	0.000	12.547	0	0.000	0	
Leg S11	L 6" x 6" x 0.5625"	SAB	6X6X0.56	36.0	33.78	Comp	19.69	41.014	W 45	208.332	0.000	0.000	0.000	12.547	0	0.000	0	
Leg S12	L 6" x 6" x 0.5625"	SAB	6X6X0.56	36.0	25.63	Comp	13.88	28.924	W 45	208.332	0.000	0.000	0.000	12.547	0	0.000	0	
Leg S13	L 6" x 6" x 0.4375"	SAB	6X6X0.44	36.0	22.92	Comp	10.56	17.306	W 45	163.944	0.000	0.000	0.000	12.547	0	0.000	0	
Leg S14	L 5" x 5" x 0.4375"	SAB	5X5X0.44	36.0	21.04	Comp	9.75	13.201	W 45	135.432	0.000	0.000	0.000	10.206	0	0.000	0	
Leg S15	L 5" x 5" x 0.4375"	SAB	5X5X0.44	36.0	13.84	Comp	4.49	6.086	W 45	135.432	0.000	0.000	0.000	10.206	0	0.000	0	
Leg S16	L 5" x 5" x 0.3125"	SAB	5X5X0.31	36.0	9.88	Comp	2.47	2.429	W 45	98.172	0.000	0.000	0.000	8.616	0	0.000	0	
Leg S17	L 5" x 5" x 0.3125"	SAB	5X5X0.31	36.0	4.96	Comp	0.00	0.000	W 45	98.172	0.000	0.000	0.000	8.616	0	0.000	0	
Diag S1	B/B 13"x4"x0.3125"	DAS	4X3X0.31	36.0	57.37	Comp	29.52	39.974	W -90	135.432	0.000	0.000	0.000	21.786	0	0.000	0	
Diag S2	B/B 13"x3.5"x0.25"	DAS	3.5X3X0.25	36.0	62.01	Comp	42.18	42.778	W -90	101.412	0.000	0.000	0.000	20.916	0	0.000	0	
Diag S3	B/B 12.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	79.53	Comp	45.71	42.650	W -90	93.312	0.000	0.000	0.000	20.550	0	0.000	0	
Diag S4	B/B 12.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	79.42	Comp	44.25	41.295	W -90	93.312	0.000	0.000	0.000	20.204	0	0.000	0	
Diag S5	B/B 13"x4"x0.25"	DAS	4X3X0.25	36.0	54.75	Comp	25.86	28.315	W -90	109.512	0.000	0.000	0.000	30.178	0	0.000	0	
Diag S6	B/B 13"x4"x0.25"	DAS	4X3X0.25	36.0	51.36	Comp	25.28	27.685	W -90	109.512	0.000	0.000	0.000	29.346	0	0.000	0	
Diag S7	B/B 13"x4"x0.25"	DAS	4X3X0.25	36.0	45.81	Comp	23.64	25.687	W -90	109.512	0.000	0.000	0.000	28.573	0	0.000	0	
Diag S8	B/B 13.5"x3.5"x0.25"	DAB	3.5X3.5X0.25	36.0	50.13	Comp	22.87	25.043	W -90	109.512	0.000	0.000	0.000	27.864	0	0.000	0	
Diag S9	B/B 12.5"x2.5"x0.25"	DAB	2.5X2.5X0.25	36.0	26.89	Comp	18.41	14.193	W -90	77.112	0.000	0.000	0.000	16.451	0	0.000	0	
Diag S10	B/B 12.5"x2.5"x0.25"	DAB	2.5X2.5X0.25	36.0	47.33	Comp	17.02	13.122	W 90	77.112	0.000	0.000	0.000	15.962	0	0.000	0	
Diag S11	B/B 12.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	69.86	Comp	19.26	13.293	W 90	69.012	0.000	0.000	0.000	15.495	0	0.000	0	
Diag S12	B/B 12.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	59.97	Comp	16.13	11.132	W 90	69.012	0.000	0.000	0.000	15.054	0	0.000	0	
Diag S13	B/B 12.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	54.94	Comp	15.50	10.695	W 0	69.012	0.000	0.000	0.000	14.641	0	0.000	0	
Diag S14	L 3" x 3" x 0.25"	SAB	3X3X0.25	36.0	26.06	Comp	8.91	4.876	W 0	54.756	0.000	0.000	0.000	16.514	0	0.000	0	
Diag S15	L 3.5" x 3.5" x 0.25"	SAB	3.5X3.5X0.25	36.0	17.92	Comp	6.42	3.513	W 0	54.756	0.000	0.000	0.000	15.546	0	0.000	0	
Diag S16	L 3" x 3" x 0.25"	SAB	3X3X0.25	36.0	14.19	Comp	4.75	2.216	W 0	46.656	0.000	0.000	0.000	13.640	0	0.000	0	
Diag S17	L 3" x 3" x 0.25"	SAB	3X3X0.25	36.0	10.22	Comp	3.53	1.649	W 0	46.656	0.000	0.000	0.000	12.836	0	0.000	0	
Horiz 1	B/B 13.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	58.71	Comp	42.14	39.323	W -90	93.312	0.000	0.000	0.000	21.459	0	0.000	0	
Horiz 2	B/B 13.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	44.70	Tens	44.70	41.708	W -90	93.312	0.000	0.000	0.000	13.278	0	0.000	0	
Horiz 3	B/B 13.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	42.05	Tens	42.05	39.239	W -90	93.312	0.000	0.000	0.000	12.250	0	0.000	0	
Horiz 4	B/B 13"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	54.67	Comp	40.71	34.691	W 90	85.212	0.000	0.000	0.000	11.222	0	0.000	0	
Horiz 5	B/B 13"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	54.74	Comp	18.42	15.696	W 90	85.212	0.000	0.000	0.000	15.292	0	0.000	0	
Horiz 6	B/B 13"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	42.94	Comp	16.48	14.040	W 90	85.212	0.000	0.000	0.000	13.750	0	0.000	0	
Horiz 7	B/B 12.5"x2.5"x0.25"	DAB	2.5X2.5X0.25	36.0	46.00	Comp	15.40	11.874	W 90	77.112	0.000	0.000	0.000	12.209	0	0.000	0	
Horiz 8	B/B 12.5"x2.5"x0.25"	DAB	2.5X2.5X0.25	36.0	33.91	Comp	14.00	10.786	W 90	77.112	0.000	0.000	0.000	10.667	0	0.000	0	
Horiz 9	B/B 12.5"x2.5"x0.25"	DAB	2.5X2.5X0.25	36.0	27.20	Comp	12.19	9.403	W 90	77.112	0.000	0.000	0.000	9.896	0	0.000	0	
Horiz 10	B/B 12.5"x2.5"x0.25"	DAB	2.5X2.5X0.25	36.0	20.70	Comp	10.59	8.169	W 90	77.112	0.000	0.000	0.000	9.125	0	0.000	0	
Horiz 11	B/B 12.5"x2.5"x0.25"	DAB	2.5X2.5X0.25	36.0	18.09	Comp	10.02	7.725	W 90	77.112	0.000	0.000	0.000	8.354	0	0.000	0	
Horiz 12	B/B 12.5"x2.5"x0.25"	DAB	2.5X2.5X0.25	36.0	13.14	Comp	8.38	6.463	W 0	77.112	0.000	0.000	0.000	7.583	0	0.000	0	
Horiz 13	B/B 12.5"x2.5"x0.25"	DAB	2.5X2.5X0.25	36.0	9.32	Comp	7.65	5.897	W 180	77.112	0.000	0.000	0.000	6.813	0	0.000	0	
Horiz 14	L 3" x 2.5" x 0.25"	SMU	3X2.5X0.25	36.0	6.02	Tens	6.02	2.553	W 45	42.444	0.000	0.000	0.000	12.371	0	0.000	0	
Horiz 15	B/B 13"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	1.73	Tens	1.73	1.476	W 0	85.212	0.000	0.000	0.000	11.117	0	0.000	0	
Horiz 16	L 3" x 2.5" x 0.25"	SMU	3X2.5X0.25	36.0	2.36	Tens	2.36	1.003	W 0	42.444	0.000	0.000	0.000	10.059	0	0.000	0	
Horiz 17	CBx11.5	CHN	CBx11.5	36.0	1.00	Comp	0.48	0.523	W 90	109.512	0.000	0.000	0.000	9.000	0	0.000	0	
LD 1	B/B 13"x3"x0.25"	DAL	3X3X0.25	36.0	49.97	Comp	24.52	18.905	W -45	77.112	0.000	0.000	0.000	12.836	0	0.000	0	
LD 2	B/B 14"x3"x0.25"	DAL	4X3X0.25	36.0	57.79	Comp	40.24	44.066	W -90	109.512	0.000	0.000	0.000	12.836	0	0.000	0	
LD 4	B/B 12.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	77.71	Comp	30.62	21.133	W -90	69.012	0.000	0.000	0.000	11.516	0	0.000	0	
LD 5	B/B 12.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	62.91	Comp	41.27	28.478	W -90	69.012	0.000	0.000	0.000	8.187	0	0.000	0	
LD 6	B/B 13"x3"x0.25"	DAB	3X3X0.25	36.0	52.62	Comp	39.39	36.758	W -90	93.312	0.000	0.000	0.000	9.681	0	0.000	0	
LD 7	B/B 13"x3"x0.25"	DAB	3X3X0.25	36.0	42.44	Comp	22.15	20.671	W -45	93.312	0.000	0.000	0.000	10.941	0	0.000	0	
LD 8	B/B 12.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	62.31	Comp	41.28	28.489	W -90	69.012	0.000	0.000	0.000	8.044	0	0.000	0	
LD 9	B/B 13"x3"x0.25"	DAB	3X3X0.25	36.0	61.07	Comp	46.35	35.738	W -90	77.112	0.000	0.000	0.000	9.336	0	0.000	0	
LD 10	B/B 13"x3"x0.25"	DAB	3X3X0.25	36.0	39.91	Comp	21.88	20.419	W -45	93.312	0.000	0.000	0.000	10.387	0	0.000	0	
LD 11	B/B 12.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	60.29	Comp	39.94	27.564	W -90	69.012	0.000	0.000	0.000	7.909	0	0.000	0	
LD 12	B/B 12.5"x2.5"x0.375"	DAB	2.5X2.5X0.38	36.0	49.64	Comp	30.45	34.233	W -90	112.428	0.000	0.000	0.000	9.008	0	0.000	0	
LH 1	B/B 12.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	11.06	Tens	11.06	9.425	W 0	85.212	0.000	0.000	0.000	21.458	0	0.000	0	
LH 2	B/B 12.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	89.35	Comp	27.42	23.366	W -90	85.212	0.000	0.000	0.000	10.808	0	0.000	0	
LH 3	B/B 12.5"x3"x0.375"	DAS	3X2.5X0.38	36.0	51.18	Comp	17.90	22.275	W -45	124.416	0.000	0.000	0.000	10.005	0	0.000	0	
LH 4	B/B 13.5"x3.5"x0.25"	DAB	3.5X3.5X0.25	36.0	45.96	Comp	19.31	21.148	W -45	109.512	0.000	0.000	0.000	9.202	0	0.000	0	
DUM 1	Dummy Bracing Member	DUM	0.1X0.1X1	36.0	0.00	0.00	BR 11X	0.877	W -45									

Legs

Site No.:	88018
Engineer:	BD
Date:	11/24/2021
Carrier:	AT&T Mobility

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape	Diameter or Length (in)	Thickness ^[2] (in)	F _y (ksi)
1	0.000-25.00	L	8	1.125	36
2	25.00-50.00	L	8	1.125	36
3	50.00-75.00	L	8	1.125	36
4	75.00-100.0	L	8	1	36
5	100.0-125.0	L	8	0.875	36
6	125.0-150.0	L	8	0.875	36
7	150.0-175.0	L	8	0.75	36
8	175.0-200.0	L	8	0.625	36
9	200.0-212.5	L	6	0.75	36
10	212.5-225.0	L	6	0.75	36
11	225.0-237.5	L	6	0.5625	36
12	237.5-250.0	L	6	0.5625	36
13	250.0-262.5	L	6	0.4375	36
14	262.5-272.7	L	5	0.4375	36
15	272.7-282.8	L	5	0.4375	36
16	282.8-291.4	L	5	0.3125	36
17	291.4-300.0	L	5	0.3125	36

Notes:

^[1] Type of Leg Shape: **R** = Round or **P** = Bent Plate or **S** = Schifflerized Angle. **L** = Even Leg

^[2] For Solid Round Leg Shapes Thickness Equals Zero.

^[3] Adjust for Bent Plate Leg Shapes.

Diagonals

Site No.:	88018
Engineer:	BD
Date:	11/24/2021
Carrier:	AT&T Mobility

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	Is Diag. Tension Only? (Y/N)
1	0.000-25.00	2L		3	4	0.3125	36	
2	25.00-50.00	2L		3	3.5	0.25	36	
3	50.00-75.00	2L		2.5	3.5	0.25	36	
4	75.00-100.0	2L		2.5	3.5	0.25	36	
5	100.0-125.0	2L		3	4	0.25	36	
6	125.0-150.0	2L		3	4	0.25	36	
7	150.0-175.0	2L		3	4	0.25	36	
8	175.0-200.0	2L		3.5	3.5	0.25	36	
9	200.0-212.5	2L		2.5	2.5	0.25	36	
10	212.5-225.0	2L		2.5	2.5	0.25	36	
11	225.0-237.5	2L		2.5	2	0.25	36	
12	237.5-250.0	2L		2.5	2	0.25	36	
13	250.0-262.5	2L		2.5	2	0.25	36	
14	262.5-272.7	L		3.5	3.5	0.25	36	
15	272.7-282.8	L		3.5	3.5	0.25	36	
16	282.8-291.4	L		3	3	0.25	36	
17	291.4-300.0	L		3	3	0.25	36	

Notes:

^[1] Type of Diagonal Shape: R = Round, L = Single-Angle or 2L = Double-Angle.

^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

^[3] Applies to Single-Angle and Double-Angle Shapes only.

^[4] Applies to Double-Angle Shapes only.

^[5] Applies to Single-Angle Shapes only.

Horizontals

Site No.:	88018
Engineer:	BD
Date:	11/24/2021
Carrier:	AT&T Mobility

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	B/B Spacing (in.)
1	0.000-25.00	2L		3.5	2.5	0.25	36	
2	25.00-50.00	2L		3.5	2.5	0.25	36	
3	50.00-75.00	2L		3.5	2.5	0.25	36	
4	75.00-100.0	2L		3	2.5	0.25	36	
5	100.0-125.0	2L		3	2.5	0.25	36	
6	125.0-150.0	2L		3	2.5	0.25	36	
7	150.0-175.0	2L		2.5	2.5	0.25	36	
8	175.0-200.0	2L		2.5	2.5	0.25	36	
9	200.0-212.5	2L		2.5	2.5	0.25	36	
10	212.5-225.0	2L		2.5	2.5	0.25	36	
11	225.0-237.5	2L		2.5	2.5	0.25	36	
12	237.5-250.0	2L		2.5	2.5	0.25	36	
13	250.0-262.5	2L		2.5	2.5	0.25	36	
14	262.5-272.7	L		3	2.5	0.25	36	
15	272.7-282.8	2L		3	2.5	0.25	36	
16	282.8-291.4	L		3	2.5	0.25	36	
17	291.4-300.0	C		8	11.5		36	

Notes:

^[1] Type of Horizontal Shape: **R** = Round, **L** = Single-Angle, **2L** = Double-Angle, **C** = Channel, **W** = W Shape

^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

^[3] Applies to Single-Angle and Double-Angle Shapes only.

^[4] Applies to Double-Angle Shapes only.

^[5] Applies to Single-Angle Shapes only.

Built-up Diagonals

Site No.:	88018
Engineer:	BD
Date:	11/24/2021
Carrier:	AT&T Mobility

When inputting thickness values, include all decimal places.

Input diags. from left to center & from base section upward.

Tower Built-up Diag. #	Section Elevations (ft)	Type of Shape	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)
1	0.000-25.00	2L		3	2	0.25	36
2	0.000-25.00	2L		4	3	0.25	36
3	25.00-50.00	2L		2.5	2	0.25	36
4	25.00-50.00	2L		2.5	2	0.25	36
5	25.00-50.00	2L		3	3	0.25	36
6	50.00-75.00	2L		3	3	0.25	36
7	50.00-75.00	2L		2.5	2	0.25	36
8	50.00-75.00	2L		3	2	0.25	36
9	75.00-100.0	2L		3	3	0.25	36
10	75.00-100.0	2L		2.5	2	0.25	36
11	75.00-100.0	2L		2.5	2.5	0.375	36

Notes:

^[1] Type of Diagonal Shape: R = Round, L = Single-Angle or 2L = Double-Angle.

^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

^[3] Applies to Single-Angle and Double-Angle Shapes only.

^[4] Applies to Double-Angle Shapes only.

^[5] Applies to Single-Angle Shapes only.

Built-up Horizontals

Site No.:	88018
Engineer:	BD
Date:	11/24/2021
Carrier:	AT&T Mobility

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of shape	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	Is Horiz. Tension Only? (Y/N)
1	0.00-25.00	2L		2.5	3	0.25	36	Y
2	25.00-50.00	2L		2.5	3	0.25	36	
3	50.00-75.00	2L		2.5	3	0.375	36	
4	75.00-100.0	2L		3.5	3.5	0.25	36	

Notes:

^[1] Type of Horizontal Shape: **R** = Round, **L** = Single-Angle or **2L** = Double-Angle.

^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

^[3] Applies to Single-Angle and Double-Angle Shapes only.

^[4] Applies to Double-Angle Shapes only.

^[5] Applies to Single-Angle Shapes only.

Site #: 88018

Name: AT&T Mobility

Engineer:

Date:

BD

11/24/21

Section Label	Section Color	Joint Defining Bottom Section	Dead Load Adj. Factor						Adj. Factor Flat	Adj. Factor Round	Area Multiplier	Weight Multiplier
0.000-25.00		0P	1.385721073						1.321434228	1.321434228	1	1.2
25.00-50.00		1P	1.338687147						1.282239289	1.282239289	1	1.2
50.00-75.00		2P	1.335261765						1.279384804	1.279384804	1	1.2
75.00-100.0		3P	1.330833855						1.275694879	1.275694879	1	1.2
100.0-125.0		4P	1.334826556						1.27902213	1.27902213	1	1.2
125.0-150.0		5P	1.318955429						1.265796191	1.265796191	1	1.2
150.0-175.0		6P	1.30866585						1.257221541	1.257221541	1	1.2
175.0-200.0		7P	1.278954774						1.232462312	1.232462312	1	1.2
200.0-212.5		8P	1.269986394						1.224988662	1.224988662	1	1.2
212.5-225.0		9P	1.262963002						1.219135835	1.219135835	1	1.2
225.0-237.5		10P	1.255806469						1.213172057	1.213172057	1	1.2
237.5-250.0		11P	1.24853386						1.20711155	1.20711155	1	1.2
250.0-262.5		12P	1.241165734						1.200971445	1.200971445	1	1.2
262.5-272.7		13P	1.243794654						1.203162212	1.203162212	1	1.2
272.7-282.8		14P	1.235824477						1.196520398	1.196520398	1	1.2
282.8-291.4		15P	1.257597671						1.214664726	1.214664726	1	1.2
291.4-300.0		16P	1.146016721						1.121680601	1.121680601	1	1.2

Site #:	88018
Name:	AT&T Mobility

Engineer:	BD
Date:	11/24/21

Group Label	Group Description	Angle Type	Angle Size	Material Type	Element Type	Group Type	Optimize Group
Leg S1	L 8" x 8" x 1.125"	SAE	8X8X1.13	A 36	Beam	Leg	None
Leg S2	L 8" x 8" x 1.125"	SAE	8X8X1.13	A 36	Beam	Leg	None
Leg S3	L 8" x 8" x 1.125"	SAE	8X8X1.13	A 36	Beam	Leg	None
Leg S4	L 8" x 8" x 1"	SAE	8X8X1	A 36	Beam	Leg	None
Leg S5	L 8" x 8" x 0.875"	SAE	8X8X0.88	A 36	Beam	Leg	None
Leg S6	L 8" x 8" x 0.875"	SAE	8X8X0.88	A 36	Beam	Leg	None
Leg S7	L 8" x 8" x 0.75"	SAE	8X8X0.75	A 36	Beam	Leg	None
Leg S8	L 8" x 8" x 0.625"	SAE	8X8X0.63	A 36	Beam	Leg	None
Leg S9	L 6" x 6" x 0.75"	SAE	6X6X0.75	A 36	Beam	Leg	None
Leg S10	L 6" x 6" x 0.75"	SAE	6X6X0.75	A 36	Beam	Leg	None
Leg S11	L 6" x 6" x 0.5625"	SAE	6X6X0.56	A 36	Beam	Leg	None
Leg S12	L 6" x 6" x 0.5625"	SAE	6X6X0.56	A 36	Beam	Leg	None
Leg S13	L 6" x 6" x 0.4375"	SAE	6X6X0.44	A 36	Beam	Leg	None
Leg S14	L 5" x 5" x 0.4375"	SAE	5X5X0.44	A 36	Beam	Leg	None
Leg S15	L 5" x 5" x 0.4375"	SAE	5X5X0.44	A 36	Beam	Leg	None
Leg S16	L 5" x 5" x 0.3125"	SAE	5X5X0.31	A 36	Beam	Leg	None
Leg S17	L 5" x 5" x 0.3125"	SAE	5X5X0.31	A 36	Beam	Leg	None
Diag S1	B/B L3"x4"x0.3125"	DAS	4X3X0.31	A 36	Beam	Other	None
Diag S2	B/B L3"x3.5"x0.25"	DAS	3.5X3X0.25	A 36	Beam	Other	None
Diag S3	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	A 36	Beam	Other	None
Diag S4	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	A 36	Beam	Other	None
Diag S5	B/B L3"x4"x0.25"	DAS	4X3X0.25	A 36	Beam	Other	None
Diag S6	B/B L3"x4"x0.25"	DAS	4X3X0.25	A 36	Beam	Other	None
Diag S7	B/B L3"x4"x0.25"	DAS	4X3X0.25	A 36	Beam	Other	None
Diag S8	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	A 36	Beam	Other	None
Diag S9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Diag S10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Diag S11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
Diag S12	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
Diag S13	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
Diag S14	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	A 36	Beam	Other	None
Diag S15	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	A 36	Beam	Other	None
Diag S16	L 3" x 3" x 0.25"	SAE	3X3X0.25	A 36	Beam	Other	None
Diag S17	L 3" x 3" x 0.25"	SAE	3X3X0.25	A 36	Beam	Other	None
Horiz 1	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	A 36	Beam	Other	None
Horiz 2	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	A 36	Beam	Other	None
Horiz 3	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	A 36	Beam	Other	None
Horiz 4	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 5	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 6	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 7	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 11	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 13	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 14	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	A 36	Beam	Other	None
Horiz 15	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 16	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	A 36	Beam	Other	None
Horiz 17	C8x11.5	CHN	C8x11.5	A 36	Beam	Other	None
LD 1	B/B L3"x2"x0.25"	DAL	3X2X0.25	A 36	Beam	Other	None
LD 2	B/B L4"x3"x0.25"	DAL	4X3X0.25	A 36	Beam	Other	None
LD 4	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 5	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 6	B/B L3"x3"x0.25"	DAE	3X3X0.25	A 36	Beam	Other	None
LD 7	B/B L3"x3"x0.25"	DAE	3X3X0.25	A 36	Beam	Other	None
LD 8	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 9	B/B L3"x2"x0.25"	DAL	3X2X0.25	A 36	Beam	Other	None
LD 10	B/B L3"x3"x0.25"	DAE	3X3X0.25	A 36	Beam	Other	None
LD 11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 12	B/B L2.5"x2.5"x0.375"	DAE	2.5X2.5X0.38	A 36	Beam	Other	None
LH 1	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	T-Only	Other	None
LH 2	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
LH 3	B/B L2.5"x3"x0.375"	DAS	3X2.5X0.38	A 36	Beam	Other	None
LH 4	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	A 36	Beam	Other	None
DUM 1	Dummy Bracing Member	DUM	0.1X0.1X1	A 36	Beam	Fictitious	None

Group Label	Group Description	Angle Type	Angle Size	Material Type	Element Type	Group Type	Optimize Group
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Group Label	Group Description	Angle Type	Angle Size	Material Type	Element Type	Group Type	Optimize Group
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Site #:	88018
Name:	AT&T Mobility

Engineer:	BD
Date:	11/24/21

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ	
L 1	Leg S1		XY-Symmetry	0P	1P		1	4	0.28132	0.28132	0.28132
L 2	Leg S2		XY-Symmetry	1P	2P		1	4	0.28132	0.28132	0.28132
L 3	Leg S3		XY-Symmetry	2P	3P		1	4	0.28132	0.28132	0.28132
L 4	Leg S4		XY-Symmetry	3P	4P		1	4	0.28132	0.28132	0.28132
L 5	Leg S5		XY-Symmetry	4P	5P		1	4	0.33333333	0.33333333	0.33333333
L 6	Leg S6		XY-Symmetry	5P	6P		1	4	0.33333333	0.33333333	0.33333333
L 7	Leg S7		XY-Symmetry	6P	7P		1	4	0.33333333	0.33333333	0.33333333
L 8	Leg S8		XY-Symmetry	7P	8P		1	4	0.33333333	0.33333333	0.33333333
L 9	Leg S9		XY-Symmetry	8P	9P		1	4	0.5	0.5	0.5
L 10	Leg S10		XY-Symmetry	9P	10P		1	4	0.5	0.5	0.5
L 11	Leg S11		XY-Symmetry	10P	11P		1	4	0.5	0.5	0.5
L 12	Leg S12		XY-Symmetry	11P	12P		1	4	0.5	0.5	0.5
L 13	Leg S13		XY-Symmetry	12P	13P		1	4	0.5	0.5	0.5
L 14	Leg S14		XY-Symmetry	13P	14P		1	4	0.5	0.5	0.5
L 15	Leg S15		XY-Symmetry	14P	15P		1	4	0.5	0.5	0.5
L 16	Leg S16		XY-Symmetry	15P	16P		1	4	0.5	0.5	0.5
L 17	Leg S17		XY-Symmetry	16P	17P		1	4	0.5	0.5	0.5

D 1	Diag S1		XY-Symmetry	0P	H2P		1	6	0.31	0.92	0.31
D 2	Diag S1		XY-Symmetry	0P	H1P		1	6	0.31	0.92	0.31
D 3	Diag S2		XY-Symmetry	1P	H6P		1	6	0.31	0.62	0.31
D 4	Diag S2		XY-Symmetry	1P	H5P		1	6	0.31	0.62	0.31
D 5	Diag S3		XY-Symmetry	2P	H10P		1	6	0.33333333	0.66666667	0.33333333
D 6	Diag S3		XY-Symmetry	2P	H9P		1	6	0.33333333	0.66666667	0.33333333
D 7	Diag S4		XY-Symmetry	3P	H14P		1	6	0.33333333	0.66666667	0.33333333
D 8	Diag S4		XY-Symmetry	3P	H13P		1	6	0.33333333	0.66666667	0.33333333
D 9	Diag S5		XY-Symmetry	4P	A9P		1	6	0.33333333	0.66666667	0.33333333
D 10	Diag S5		XY-Symmetry	4P	A10P		1	6	0.33333333	0.66666667	0.33333333
D 11	Diag S6		XY-Symmetry	5P	A11P		1	6	0.33333333	0.66666667	0.33333333
D 12	Diag S6		XY-Symmetry	5P	A12P		1	6	0.33333333	0.66666667	0.33333333
D 13	Diag S7		XY-Symmetry	6P	A13P		1	6	0.33333333	0.66666667	0.33333333
D 14	Diag S7		XY-Symmetry	6P	A14P		1	6	0.33333333	0.66666667	0.33333333
D 15	Diag S8		XY-Symmetry	7P	A15P		1	6	0.33333333	0.66666667	0.33333333
D 16	Diag S8		XY-Symmetry	7P	A16P		1	6	0.33333333	0.66666667	0.33333333
D 17	Diag S9		XY-Symmetry	8P	A17P		1	6	0.32	0.59	0.32
D 18	Diag S9		XY-Symmetry	8P	A18P		1	6	0.32	0.59	0.32
D 19	Diag S10		XY-Symmetry	9P	A19P		1	6	0.5	1	0.5
D 20	Diag S10		XY-Symmetry	9P	A20P		1	6	0.5	1	0.5
D 21	Diag S11		XY-Symmetry	10P	A21P		1	6	0.48	0.96	0.48
D 22	Diag S11		XY-Symmetry	10P	A22P		1	6	0.48	0.96	0.48
D 23	Diag S12		XY-Symmetry	11P	A23P		1	6	0.5	1	0.5
D 24	Diag S12		XY-Symmetry	11P	A24P		1	6	0.5	1	0.5
D 25	Diag S13		XY-Symmetry	12P	A25P		1	6	0.5	1	0.5
D 26	Diag S13		XY-Symmetry	12P	A26P		1	6	0.5	1	0.5

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
D 27	Diag S14		XY-Symmetry	13P	14Y	2	5	0.52	0.52	0.52
D 28	Diag S14		XY-Symmetry	13P	14X	2	5	0.52	0.52	0.52
D 29	Diag S15		XY-Symmetry	14P	15Y	2	5	0.52	0.52	0.52
D 30	Diag S15		XY-Symmetry	14P	15X	2	5	0.52	0.52	0.52
D 31	Diag S16		XY-Symmetry	15P	16Y	2	5	0.52	0.52	0.52
D 32	Diag S16		XY-Symmetry	15P	16X	2	5	0.52	0.52	0.52
D 33	Diag S17		XY-Symmetry	16P	17Y	2	5	0.52	0.52	0.52
D 34	Diag S17		XY-Symmetry	16P	17X	2	5	0.52	0.52	0.52

H 1	Horiz 1		XY-Symmetry	1P	A1P	1	6	0.48	0.48	0.48
H 2	Horiz 1		XY-Symmetry	1P	A2P	1	6	0.48	0.48	0.48
H 3	Horiz 2		XY-Symmetry	2P	A3P	1	6	0.5	0.5	0.5
H 4	Horiz 2		XY-Symmetry	2P	A4P	1	6	0.5	0.5	0.5
H 5	Horiz 3		XY-Symmetry	3P	A5P	1	6	0.5	0.5	0.5
H 6	Horiz 3		XY-Symmetry	3P	A6P	1	6	0.5	0.5	0.5
H 7	Horiz 4		XY-Symmetry	4P	A7P	1	6	0.47	0.94	0.47
H 8	Horiz 4		XY-Symmetry	4P	A8P	1	6	0.47	0.94	0.47
H 9	Horiz 5		XY-Symmetry	5P	A9P	1	6	1	1	1
H 10	Horiz 5		XY-Symmetry	5P	A10P	1	6	1	1	1
H 11	Horiz 6		XY-Symmetry	6P	A11P	1	6	1	1	1
H 12	Horiz 6		XY-Symmetry	6P	A12P	1	6	1	1	1
H 13	Horiz 7		XY-Symmetry	7P	A13P	1	6	1	1	1
H 14	Horiz 7		XY-Symmetry	7P	A14P	1	6	1	1	1
H 15	Horiz 8		XY-Symmetry	8P	A15P	1	6	1	1	1
H 16	Horiz 8		XY-Symmetry	8P	A16P	1	6	1	1	1

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
H 17	Horiz 9		XY-Symmetry	9P	A17P	1	6	1	1	1
H 18	Horiz 9		XY-Symmetry	9P	A18P	1	6	1	1	1
H 19	Horiz 10		XY-Symmetry	10P	A19P	1	6	1	1	1
H 20	Horiz 10		XY-Symmetry	10P	A20P	1	6	1	1	1
H 21	Horiz 11		XY-Symmetry	11P	A21P	1	6	1	1	1
H 22	Horiz 11		XY-Symmetry	11P	A22P	1	6	1	1	1
H 23	Horiz 12		XY-Symmetry	12P	A23P	1	6	1	1	1
H 24	Horiz 12		XY-Symmetry	12P	A24P	1	6	1	1	1
H 25	Horiz 13		XY-Symmetry	13P	A25P	1	6	1	1	1
H 26	Horiz 13		XY-Symmetry	13P	A26P	1	6	1	1	1
H 27	Horiz 14		Y-Symmetry	14P	14X	3	5	0.5	1	0.5
H 28	Horiz 14		X-Symmetry	14P	14Y	3	5	0.5	1	0.5
H 29	Horiz 15		Y-Symmetry	15P	15X	1	6	0.5	1	0.5
H 30	Horiz 15		X-Symmetry	15P	15Y	1	6	0.5	1	0.5
H 31	Horiz 16		Y-Symmetry	16P	16X	3	5	0.5	1	0.5
H 32	Horiz 16		X-Symmetry	16P	16Y	3	5	0.5	1	0.5
H 33	Horiz 17		Y-Symmetry	17P	17X	3	5	1	1	1
H 34	Horiz 17		X-Symmetry	17P	17Y	3	5	1	1	1
H 37	Horiz 2		Y-Symmetry	A3P	A3X	1	6	0.5	1	0.5
H 38	Horiz 2		X-Symmetry	A4P	A4Y	1	6	0.5	1	0.5
H 39	Horiz 3		Y-Symmetry	A5P	A5X	1	6	0.5	1	0.5
H 40	Horiz 3		X-Symmetry	A6P	A6Y	1	6	0.5	1	0.5

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
H 41	Horiz 4		Y-Symmetry	A7P	A7X	1	6	0.5	1	0.5
H 42	Horiz 4		X-Symmetry	A8P	A8Y	1	6	0.5	1	0.5

LH 1	LH 1		Y-Symmetry	H1P	H1X	1	6	100	100	100
LH 2	LH 1		X-Symmetry	H2P	H2Y	1	6	100	100	100
LH 3	LH 2		XY-Symmetry	H5P	H7P	1	6	1	2	1
LH 4	LH 2		XY-Symmetry	H6P	H8P	1	6	1	2	1
LH 5	LH 3		XY-Symmetry	H9P	H11P	1	6	1	2	1
LH 6	LH 3		XY-Symmetry	H10P	H12P	1	6	1	2	1
LH 7	LH 4		XY-Symmetry	H13P	H15P	1	6	0.998	1.995	0.998
LH 8	LH 4		XY-Symmetry	H14P	H16P	1	6	0.998	1.995	0.998

LD 1	LD 1		XY-Symmetry	H1P	1P	1	6	0.85	0.85	0.85
LD 2	LD 1		XY-Symmetry	H2P	1P	1	6	0.85	0.85	0.85
LD 3	LD 2		XY-Symmetry	H1P	A1P	1	6	0.82	0.82	0.82
LD 4	LD 2		XY-Symmetry	H2P	A2P	1	6	0.82	0.82	0.82

LD 7	LD 4		XY-Symmetry	H5P	2P	1	6	0.87	0.87	0.87
LD 8	LD 4		XY-Symmetry	H6P	2P	1	6	0.87	0.87	0.87
LD 9	LD 5		XY-Symmetry	H5P	A3P	1	6	0.8	0.8	0.8
LD 10	LD 5		XY-Symmetry	H6P	A4P	1	6	0.8	0.8	0.8
LD 11	LD 6		XY-Symmetry	A3P	H7P	1	6	0.84	0.84	0.84
LD 12	LD 6		XY-Symmetry	A4P	H8P	1	6	0.84	0.84	0.84
LD 13	LD 7		XY-Symmetry	H9P	3P	1	6	0.865	0.865	0.865
LD 14	LD 7		XY-Symmetry	H10P	3P	1	6	0.865	0.865	0.865
LD 15	LD 8		XY-Symmetry	H9P	A5P	1	6	0.82	0.82	0.82

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
LD 16	LD 8		XY-Symmetry	H10P	A6P	1	6	0.82	0.82	0.82
LD 17	LD 9		XY-Symmetry	A5P	H11P	1	6	0.82	0.82	0.82
LD 18	LD 9		XY-Symmetry	A6P	H12P	1	6	0.82	0.82	0.82
LD 19	LD 10		XY-Symmetry	H13P	4P	1	6	0.86	0.86	0.86
LD 20	LD 10		XY-Symmetry	H14P	4P	1	6	0.86	0.86	0.86
LD 21	LD 11		XY-Symmetry	H13P	A7P	1	6	0.82	0.82	0.82
LD 22	LD 11		XY-Symmetry	H14P	A8P	1	6	0.82	0.82	0.82
LD 23	LD 12		XY-Symmetry	A7P	H15P	1	6	0.85	0.85	0.85
LD 24	LD 12		XY-Symmetry	A8P	H16P	1	6	0.85	0.85	0.85

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
BR 1	DUM 1		XY-Symmetry	A1P	A2P		1	4	1	1
BR 3	DUM 1		XY-Symmetry	A3P	A4P		1	4	1	1
BR 4	DUM 1		XY-Symmetry	A3P	A4XY		1	4	1	1
BR 5	DUM 1		XY-Symmetry	A5P	A6P		1	4	1	1
BR 6	DUM 1		XY-Symmetry	A5P	A6XY		1	4	1	1
BR 7	DUM 1		XY-Symmetry	A7P	A8P		1	4	1	1
BR 8	DUM 1		XY-Symmetry	A7P	A8XY		1	4	1	1
BR 9	DUM 1		XY-Symmetry	A9P	A10P		1	4	1	1
BR 11	DUM 1		XY-Symmetry	A11P	A12P		1	4	1	1
BR 13	DUM 1		XY-Symmetry	A13P	A14P		1	4	1	1
BR 15	DUM 1		XY-Symmetry	A15P	A16P		1	4	1	1
BR 17	DUM 1		XY-Symmetry	A17P	A18P		1	4	1	1
BR 19	DUM 1		XY-Symmetry	A19P	A20P		1	4	1	1
BR 21	DUM 1		XY-Symmetry	A21P	A22P		1	4	1	1
BR 23	DUM 1		XY-Symmetry	A23P	A24P		1	4	1	1
BR 25	DUM 1		XY-Symmetry	A25P	A26P		1	4	1	1

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
BR 61	DUM 1		XY-Symmetry	H1P	H2P	1	4	1	1	1
BR 62	DUM 1		XY-Symmetry	H1P	H2XY	1	4	1	1	1
BR 64	DUM 1		XY-Symmetry	H5P	H6P	1	4	1	1	1
BR 65	DUM 1		XY-Symmetry	H5P	H6XY	1	4	1	1	1
BR 66	DUM 1		XY-Symmetry	H7P	H8P	1	4	1	1	1
BR 67	DUM 1		XY-Symmetry	H9P	H10P	1	4	1	1	1
BR 68	DUM 1		XY-Symmetry	H9P	H10XY	1	4	1	1	1
BR 69	DUM 1		XY-Symmetry	H11P	H12P	1	4	1	1	1
BR 70	DUM 1		XY-Symmetry	H13P	H14P	1	4	1	1	1
BR 71	DUM 1		XY-Symmetry	H13P	H14XY	1	4	1	1	1
BR 72	DUM 1		XY-Symmetry	H15P	H16P	1	4	1	1	1

Site No.:	88018
Engineer:	BD
Date:	11/24/21
Carrier:	AT&T Mobility

Description	From	To	Quantity	Shape	Width or Diameter**	Perimeter	Unit Weight	In Face Zone?	Include in Wind Load
	(ft)	(ft)			(in)	(in)	(lb/ft)	(Yes/No)	(Yes/No)
1 Ladder	0	300	1	Flat	2	8.0	6	No	Yes
2 Short Ladder	8.3333	33.3333	2	Flat	2	8.0	6	Yes	Yes
3 Short Ladder	8.3333	33.3333	2	Flat	2	8.0	6	Yes	Yes
5 WG	5	300	1	Flat	2	8.0	6	Yes	Yes
6 WG	5	272	1	Flat	2	8.0	6	Yes	Yes
7 WG	5	235	1	Flat	2	8.0	6	Yes	Yes
8 WG	5	223	1	Flat	2	8.0	6	Yes	Yes
9 WG	5	160	1	Flat	2	8.0	6	Yes	Yes
10 Marcus Communications LLC	5	300	1	Round	1.55	4.9	0.63	No	Yes
11 Marcus Communications LLC	5	300	1	Round	1.98	6.2	0.82	No	Yes
12 Marcus Communications LLC	5	300	1	Round	1.09	3.4	0.33	No	Yes
13 Other	5	300	4	Round	0.63	2.0	0.15	No	Yes
14 Clearwire Corporation	5	300	5	Round	1.09	3.4	0.33	Yes	Yes
15 Sigfox S.A.	5	292	1	Round	1.09	3.4	0.33	Yes	Yes
16 US Dept Of Homeland Security	5	275	2	Round	1.09	3.4	0.33	Yes	Yes
17 XM Satellite Radio Inc.	5	268	1	Round	1.98	6.2	0.82	Yes	Yes
18 T-Mobile	5	265	3	Round	1.98	6.2	1.3	Yes	Yes
19 T-Mobile	5	265	1	Round	2.5	8.9	3.15	Yes	No
20 XM Satellite Radio Inc.	5	260	1	Round	5.02	15.8	1.85	Yes	No
21 US Dept Of Homeland Security	5	250	1	Round	1.09	3.4	0.33	Yes	Yes
22 US Dept Of Homeland Security	5	245	1	Round	1.09	3.4	0.33	Yes	Yes
23 AT&T Mobility	5	235	1	Flat	8.19	43.7	8.2	Yes	Yes
24 AT&T Mobility	5	235	1	Round	2.3	8.2	0.66	Yes	No
25 AT&T Mobility	5	235	2	Round	0.4	1.3	0.09	Yes	Yes
26 AT&T Mobility	5	235	1	Round	3.28	12.4	0.62	Yes	No
28 US Dept Of Homeland Security	5	210	1	Round	1.09	3.4	0.33	Yes	Yes
29 Marcus Communications LLC	5	200	2	Round	1.55	4.9	0.63	No	Yes
30 Spok Holdings, Inc.	5	193	2	Round	1.09	3.4	0.33	No	Yes
31 Spok Holdings, Inc.	5	193	1	Round	1.09	3.4	0.33	No	Yes
32 Clearwire Corporation	5	167	2	Round	2.38	7.5	3.65	Yes	Yes
33 Clearwire Corporation	5	167	6	Round	0.31	1.0	0.05	Yes	Yes
34 Metro PCS Inc	5	165	1	Flat	8.19	43.7	9.84	Yes	Yes
35 Metro PCS Inc	5	160	1	Round	0.44	1.4	0.08	Yes	Yes
37 Sprint Nextel	5	155	3	Round	1.54	4.8	1	Yes	Yes
38 Sprint Nextel	5	155	1	Round	1.7	5.3	1.78	Yes	Yes
40 Sensus USA Inc.	5	142	1	Round	1.09	3.4	0.3	No	Yes
42 Senet, Inc.	5	135	1	Round	0.63	2.0	0.2	Yes	Yes
43 Spok Holdings, Inc.	5	120	1	Round	0.63	2.0	0.2	No	Yes
44 Marcus Communications LLC	5	107	1	Round	1.55	4.9	0.6	No	Yes
46 Verizon Wireless	5	92	3	Round	1.98	6.2	1.3	Yes	Yes
47 Sirius XM Radio Inc.	5	25	1	Round	1.09	3.4	0.3	Yes	Yes
48 Spok Holdings, Inc.	0	6	1	Round	0.63	2.0	0.2	No	Yes
49 Spok Holdings, Inc.	0	6	1	Round	0.34	1.1	0.1	No	Yes
51 Dish Wireless	6	82	1	Round	1.75	5.5	2.7	Yes	Yes

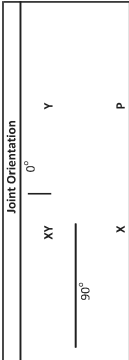
**Note: Actual block width multiplied by 0.75 (1.5 block drag factor actual divided by 2.0 flat

Fac

Dishes

Dish Types	
S	Standard
R	Standard w/ Radome
H	High Performance
G	Grid

Dish Number	Dish Elevation (ft)	Dish Dia. (ft)	Dish Angle (deg)	Dish Type	Joint Orientation	Equipment Status
1	307	3	0			
2	300	4	51.4	H	Y	
3	300	2	90	S	XY	
4	300	2	180	H	XY	
5	300	2	270	H	X	
6	120	4	90	S	P	
7	25	2	197	R	XY	
8	6	4	270	S	X	
9					P	
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Site No.: Engineer: Dates: Carrier:	88018 BD 11/24/21 AT&T Mobility
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Equipment Label	Attach Label	Equipment Property Set	EIA Antenna Orientation Angle (deg)
3' HP 1 @ 307'	17Y	3 ft HP Dish	0
4' STD 2 @ 300'	17XY	4 ft STD Dish	51.4
2' HP 3 @ 300'	17XY	2 ft HP Dish	90
2' HP 4 @ 300'	17X	2 ft HP Dish	180
2' HP 5 @ 300'	17P	2 ft HP Dish	270
4' STD 6 @ 120'	5XY	4 ft STD Dish	90
2' RAD 7 @ 25'	1X	2 ft RAD Dish	197
4' STD 8 @ 6'	0P	4 ft STD Dish	270

Task:	Determine Point Loads	
Tower Height:	300	ft
Gh:	0.85	
Wind Speed:	117	mph, Vult
Ice Wind Speed:	50	
Ice Density:	56	
Tower Type:	S	

Ice Thick:	1	in
Topographic Category (1-4):	1	
Exposure Category (B-D):	8	
Risk Category (1-4):	2	
Height of Crest (H) if Topo Cat. >1:	0	ft
Load Factor; Wind:	1	
Load Factor; Dead:	1.2	

Rooftop Speed Up Factor (Ks)	1
Ground Elevation (AMSL)	48 ft
Topographic Factor Procedure	Method 1

Site No.:
Engineer:
Date:
Carrier:

No.	Carrier	Elevation (°f)	Quantity	# of Azimuths	Proposed?	Manufacturer	Model	Height (in)	Width (in)	Depth (in)	Weight (lbs/ea)	Flat/Round (F/R)	Reduction	C _a C _e (ft ²)	Weight (k)	Ka
1		300	1	1			Platform w/ HR	0.0001	0.0001	0.0001	0.0001	F	0.000			1
2		300	1	1							1.000			80.00	9.00	1
		283	1	1				0.0001	0.0001	0.0001	0.0001	F	0.000			1
		283	1	1			Catwalk						1.000	70.00	8.00	1
3		212.5	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
		212.5	1	3			Access Platform						1.000	45.00	5.00	1
4		100	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
		100	1	3			Access Platform						1.000	45.00	5.00	1
5																1
6	Marcus Communications LLC	338	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Marcus Communications LLC	338	1	1		TX RX Systems	101-68-10-X-03N						1.000	5.53	0.07	1
7	Marcus Communications LLC	324	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Marcus Communications LLC	324	1	1			15' Omni-Grid						1.000	13.41	0.08	1
8	Other	320	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Other	320	1	1			12' Omni						1.000	3.60	0.04	1
9	Marcus Communications LLC	311	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Marcus Communications LLC	311	1	1			Radio/ODU						0.500	1.60	0.03	1
10	Other	307	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Other	307	1	1			Radio/ODU						0.500	1.60	0.03	1
11	Clearwire Corporation	300	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Clearwire Corporation	300	1	1		DragonWave	Horizon Compact						0.500	0.43	0.01	1
12	Sigfox S.A.	292	1	1		Procom	CXL 900-3LW	27.6	0.6	0.6	1.5	R	1.000			1
	Sigfox S.A.	292	1	1			5" x 3" x 2" Cavity Filter						1.000	0.17	0.00	1
13	Sigfox S.A.	292	1	1			Low Noise Amplifier	5	4	2	2	F	1.000			1
	Sigfox S.A.	292	1	1			Flat Side Arm						1.000	6.30	0.15	1
14	US Dept Of Homeland Security	275	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	US Dept Of Homeland Security	275	1	1			Round Side Arm						1.000	5.20	0.15	1
15	US Dept Of Homeland Security	275	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	US Dept Of Homeland Security	275	1	1		Rohde & Schwarz	ADD090						1.000	20.76	0.09	1
16	Other	270	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Other	270	1	1		Dielectric	TLP-08M-2E						1.000	22.75	0.13	1
17	Other	270	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Other	270	1	1			Round Side Arm						1.000	5.20	0.15	1
18	XM Satellite Radio Inc.	268	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	XM Satellite Radio Inc.	268	2	2		Alive	ATC-GCSXMV100-D7						1.000	1.31	0.01	1
19	XM Satellite Radio Inc.	268	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	XM Satellite Radio Inc.	268	2	2			Round Side Arm						0.900	5.20	0.15	0.9
20	T-Mobile	265	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	T-Mobile	265	3	3		Ericsson	Radio 4449 B7L B85A						0.500	1.65	0.08	0.8
21	T-Mobile	265	3	3		Ericsson	4424 B25	17.1	14.4	11.3	86	F	0.500			0.8
	T-Mobile	265	3	3		Ericsson	Air6449 B41						0.630	5.68	0.10	0.8
22	T-Mobile	265	3	3		Ericsson	Air 3246 B66	58.1	15.7	9.4	180	F	0.690			0.8
	T-Mobile	265	1	1			-						0.000	0.00	0.00	1
23	T-Mobile	265	3	3		RFS	APXVAARR24_43-U-NA20	95.9	24	8.7	127.9	F	0.630			0.8
	T-Mobile	265	3	3			Modified Flat Sector Frame						0.670	17.90	0.40	0.75
24	US Dept Of Homeland Security	250	1	1		Sinclair	SC281-L	251	5	5	79	R	1.000			1
	US Dept Of Homeland Security	250	2	2			Round Side Arm						1.000	5.20	0.15	1
25	US Dept Of Homeland Security	245	1	1		Sinclair	SC381-HL	148.3	4.5	4.5	47	R	1.000			1
	US Dept Of Homeland Security	260	2	2		Till-Tek	TA-2350-DAB						1.000	1.34	0.02	1
26	AT&T Mobility	235	3	3		Ericsson	AIR 6449 n77D	30.4	15.9	8.1	81.6	F	0.650			0.8
	AT&T Mobility	235	2	2		CCI	DMP65R-BU6DA						0.720	12.71	0.08	0.8
27	AT&T Mobility	235	2	2		Quintel	QD6616-7	72	22	9.6	130	F	0.660			0.8
	AT&T Mobility	235	1	1			(27) Diplexer/TTA/BOB/RET/RRU						0.500	55.30	1.29	0.8
28	AT&T Mobility	235	2	2		Ericsson	AIR 6419 N77G	15.7	30	6.7	70	F	0.610			0.8
	AT&T Mobility	235	6	3		CCI	B5A-M65R-BUU-H6 (101 lbs)						0.610	17.12	0.10	0.8
29	AT&T Mobility	235	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	AT&T Mobility	235	3	3			Sabre C10857278C Sector Frame						0.670	17.90	0.40	0.75
30	US Dept Of Homeland Security	210	1	1		Sinclair	SC281-L	251	5	5	79	R	1.000			1
	US Dept Of Homeland Security	210	1	1			Round Side Arm						1.000	5.20	0.15	1
31	Marcus Communications LLC	200	2	2		TX RX Systems	101-68-10-X-03N	189.6	3.5	3.5	70	R	1.000			1
	Marcus Communications LLC	200	2	2			Round Side Arm						0.900	5.20	0.15	0.9
32	Spok Holdings, Inc.	193	2	2		Antel	BCD-87010 ____	134	2.6	2.6	26.5	R	1.000			1
	Spok Holdings, Inc.	193	2	2			Round Side Arm						0.900	5.20	0.15	0.9
33	Spok Holdings, Inc.	193	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Spok Holdings, Inc.	193	1	1			30" x 30" Reflector						1.000	7.50	0.03	1
34	Clearwire Corporation	175	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Clearwire Corporation	175	1	1			12" x 12" Junction Box						1.000	1.20	0.01	1
35	Clearwire Corporation	167	3	3		NextNet	BTS-2500	19.3	11.3	5.1	35	F	0.500			0.8
	Clearwire Corporation	167	3	3		Argus	LLPX310R						0.630	4.29	0.03	0.8
36	Clearwire Corporation	167	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Clearwire Corporation	167	3	3			Flat T-Arm						0.670	12.90	0.25	0.75
37	Mterco PCS Inc	165	15	3		Generic	RCU (Remote Control Unit)	8	2	2	1	F	0.500			1
	Mterco PCS Inc	165	6	3		Kathrein Scala	800 10504						0.660	3.34	0.02	1
38	Sprint Nextel	155	3	3		Nokia	2.5G MAA - AAHC(64T64R)	25.6	19.7	9.6	103.6	F	0.640			0.8
	Sprint Nextel	155	1	3			(12) Filter/RRU						0.500	27.95	0.45	0.8
39	Sprint Nextel	155	3	3		RFS	APXVSP118-C-A20	72	11.8	7	57	F	0.690			0.8
	Sprint Nextel	155	3	3			Flat Sector Frame						0.750	17.90	0.40	0.75
40	Sensus USA Inc.	142	1	1		Antel	BCD-87010 ____ 4"	134	2.6	2.6	26.5	R	1.000			1
	Sensus USA Inc.	142	1	1			Round Side Arm						1.000	5.20	0.15	1
41	Senet, Inc.	135	1	1		L-com	HG908U-PRO	63	1.5	1.5	3.8	R	1.000			1
	Senet, Inc.	135	1	1			Round Side Arm						1.000	5.20	0.15	1
42	Senet, Inc.	130	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Senet, Inc.	130	1	1			Stand-Off						1.000	2.50	0.08	1
43	Marcus Communications LLC	107	1	1		TX RX Systems	101-68-10-X-03N	189.6	3.5	3.5	70	R	1.000			1
	Marcus Communications LLC	107	1	1			Round Side Arm						1.000	5.20	0.15	1
44	Verizon Wireless	92	3	3		Samsung	Outdoor CBRS 20W RRR -Clip-on Antenna	12.3	8.7	1.4	4.4	F	0.500			0.8
	Verizon Wireless	92	1	3			(12) RRU/BOB						0.500	28.64	0.65	0.8
	Verizon Wireless	92	4	3		Quintel	QS6656-SD	72	12	9.6	88	F	0.740			0.8
	Verizon Wireless	92	2	2		JMA Wireless	MX06FRO660-03						0.780	9.87	0.06	0.8
46	Verizon Wireless	92	1	1		Samsung	MT6407-77A	35.1	16.1	5.5	81.6	F	0.610			0.8
	Verizon Wireless	92	3	3			Modified Sector Frame						0.670	17.90	0.40	0.75
47	-	42	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	-	42	4	4			Ice Shield						1.000	6.00	0.15	1
48	Spok Holdings, Inc.	6	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Spok Holdings, Inc.	6	1	1		Trimble	Acumatic 2000						1.000	0.30	0.00	1
49	Dish Wireless	82	1	1	Proposed	Commscope	RD1DC-9181-PF-48	16	14	8	21.9	F	0.500			0.8
	Dish Wireless	82	3	3	Proposed		Round Sector Frames						0.750	14.40	0.30	0.75
50	Dish Wireless	82	6	3	Proposed	Fujitsu	TA08025-B604/TA08025-B605	15.7	15	9.1	75	F	0.500			0.8
	Dish Wireless	82	3	3	Proposed	JMA Wireless	MX08FRO665-21						0.640	12.49	0.06	0.8

No.	Elevation (ft)	C _u A _c		Force (lb)	Force (Ice) (lb)	Weight (lb)	Weight (Ice) (lb)	60 Azi Mult.	Force mean	F (Ice) mean	Height Flag	Sum of Forces (No	
		(ft ²)	(ft ²)									60 Azi	180 Azi
1	300	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00		1.5033333	2735.040831
	300	80.00	108.00	2735.041	674.320	10800	14040	1.00	1504.27	370.88			
	283	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
2	283	70.00	94.50	2353.604	580.277	9600	12480	1.00	1294.48	319.15		1.5035336	2353.60375
	212.5	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
	212.5	45.00	60.75	1394.110	343.716	6000	7800	1.00	766.76	189.04			
4	100	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00		1.5047059	1394.110206
	100	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
	100	45.00	60.75	1123.999	277.120	6000	7800	1.00	618.20	152.42			
5				#VALUE!	#VALUE!			1.00	#VALUE!	#VALUE!		1.5100010	1123.999149
								1.00	#VALUE!	#VALUE!			
								1.00	#VALUE!	#VALUE!			
6	338	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00		#DIV/0!	
	338	5.53	7.47	195.613	48.228	84	109	1.00	107.59	26.53			
	324	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
7	324	13.41	18.10	468.654	115.546	90	117	1.00	257.76	63.55		1.5030864	468.6539151
	320	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
	320	3.60	4.86	125.367	30.909	48	62	1.00	68.95	17.00			
9	311	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00		1.5031260	125.3673756
	311	0.80	1.08	27.633	6.813	36	47	1.00	15.20	3.75			
	307	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
10	307	0.80	1.08	27.531	6.788	36	47	1.00	15.14	3.73		1.5032573	27.53124484
	300	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
	300	0.22	0.29	7.350	1.812	13	17	1.00	4.04	1.00			
12	292	0.14	0.48	4.682	2.972	2	11	1.00	2.57	1.63		1.5033343	
	292	0.17	0.23	5.767	1.422	2	2	1.00	3.17	0.78			
	292	0.17	0.41	5.654	2.530	2	7	1.00	3.11	1.39			
13	292	6.30	8.51	213.728	52.694	180	234	1.00	117.55	28.98		1.5034247	229.8306415
	275	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
	275	5.20	7.02	173.413	42.755	180	234	1.00	95.38	23.52			
15	275	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00		1.5036374	173.4125159
	275	20.76	28.03	692.316	170.689	106	138	1.00	380.77	93.88			
	270	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
16	270	22.75	30.71	754.713	186.073	156	203	1.00	415.09	102.34		1.5037037	754.7127022
	270	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
	270	7.02	7.02	172.506	42.531	180	234	1.00	94.88	23.39			
18	268	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00		1.5037047	927.2184627
	268	2.62	3.54	86.732	21.384	19	25	1.00	47.70	11.76			
	268	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
19	268	8.42	11.37	250.980	61.879	360	468	1.00	138.04	34.03		1.5037313	337.7116064
	265	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
	265	1.98	2.67	52.268	12.887	270	351	1.00	28.75	7.09			
21	265	2.46	3.65	81.253	22.023	310	422	1.00	44.69	12.11		1.5037746	52.26801878
	265	8.59	11.59	226.710	55.895	374	487	1.00	124.69	30.74			
	265	13.15	17.13	433.841	103.210	648	948	1.00	238.61	56.77			
22	265	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00		1.5037736	794.0724787
	265	30.61	37.42	1009.948	225.488	460	939	1.00	555.47	124.02			
	265	26.98	36.43	667.809	164.647	1440	1872	1.00	367.30	90.56			
24	250	10.46	14.76	339.401	87.469	95	425	1.00	186.67	48.11		1.5037746	2471.829427
	250	10.40	14.04	337.508	83.212	360	468	1.00	185.63	45.77			
	245	5.56	7.86	179.439	46.306	56	236	1.00	98.69	25.47			
25	268	2.68	3.62	87.953	21.685	36	47	1.00	48.37	11.93		1.5038462	267.3920217
	265	6.28	8.80	200.349	51.219	294	439	1.00	110.19	28.17			
	235	14.64	19.77	373.474	92.079	192	250	1.00	205.41	50.64			
27	235	14.34	18.23	457.157	106.173	312	644	1.00	251.44	58.40		1.5042563	
	235	22.12	29.86	564.240	139.112	1552	2018	1.00	310.33	76.51			
	28	3.83	5.37	122.141	31.295	168	276	1.00	67.18	17.21			
28	235	50.13	67.67	1278.609	315.239	727	945	1.00	703.23	173.38		1.5042553	2995.970168
	235	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
	235	26.98	36.43	645.274	159.091	1440	1872	1.00	354.90	87.50			
30	210	10.46	14.76	322.908	83.219	95	419	1.00	177.60	45.77		1.5042563	3641.244624
	210	5.20	7.02	160.553	39.584	180	234	1.00	101.30	21.77			
	200	11.06	17.56	386.757	97.665	168	372	1.00	185.22	53.72			
31	200	8.42	11.37	230.846	56.915	360	468	1.00	126.97	31.30		1.5050010	567.6037078
	193	5.81	10.43	175.012	57.392	64	171	1.00	96.26	31.57			
	193	8.42	11.37	228.508	56.338	360	468	1.00	125.68	30.99			
33	193	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00		1.5051823	403.5205207
	193	7.50	10.13	226.049	55.732	36	47	1.00	124.33	30.65			
	175	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
34	175	1.20	1.62	35.170	8.671	12	16	1.00	19.34	4.77		1.5057143	35.17014487
	167	2.18	3.31	63.070	17.456	126	189	1.00	34.69	9.60			
	167	6.49	8.76	150.067	36.999	103	134	1.00	82.54	20.35			
36	167	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00		1.5059890	213.1371646
	167	19.45	26.25	421.789	103.991	900	1170	1.00	231.98	57.20			
	165	1.17	2.92	33.623	15.351	18	26	1.00	18.49	8.44			
37	165	13.23	17.86	381.183	93.980	127	165	1.00	209.65	51.69		1.5060606	414.8060437
	155	6.46	8.94	182.747	46.241	373	532	1.00	100.51	25.43			
	155	11.18	15.09	253.210	62.429	539	701	1.00	139.27	34.34			
39	155	13.29	16.44	376.192	85.004	205	399	1.00	206.91	46.75		1.5064516	435.9571908
	155	30.21	40.78	641.345	158.123	1440	1872	1.00	352.74	86.97			
	140	2.90	5.21	80.161	26.287	32	130	1.00	44.09	14.46			
40	142	5.20	7.02	143.571	35.397	180	234	1.00	78.96	19.47		1.5070433	223.7320121
	135	0.79	1.67	21.431	8.301	5	34	1.00	11.79	4.57			
	135	5.20	7.02	141.513	34.890	180	234	1.00	77.83	19.19			
42	130	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00		1.5074084	162.9435653
	130	2.50	3.38	67.305	16.594	96	125	1.00	37.02	9.13			
	107	5.53	8.78	140.823	40.841	84	259	1.00	77.45	22.46			
43	107	5.20	7.02	132.420	32.648	180	234	1.00	72.83	17.96		1.5076933	67.30521577
	97	1.79	2.99	26.099	7.951	16	36	1.00	14.35	4.37			
	97	11.46	15.46	223.511	55.106	782	1017	1.00	122.93	30.31			
45	92	19.26	23.85	469.740	106.239	422	667	1.00	258.36	58.43		1.5086906	249.6109192
	92	12.32	16.63	240.342	59.256	144	187	1.00	132.19	32.59			
	92	2.30	3.19	56.050	14.191	98	204	1.00	30.83	7.81			
46	92	26.98	36.43	493.604	121.697	1440	1872	1.00	271.48	66.93		1.5108696	959.6923182
	42	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
	42	24.00	32.40	467.866	115.352	720	936	1.00	257.33	63.44			
48	6	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00		1.5238105	467.8661772
	6	0.41	0.41	5.308	1.309	2	2	1.00	0.90	0.22			
	82	0.75	1.12	17.622	4.827	26	68	1.00	9.69	2.66			
49	82	24.30	32.81	430.127	106.047	1080	1404	1.00	236.57	58.33		1.5121951	447.7487072
	82	4.71	7.02	111.160	30.262	540	687	1.00	61.14	16.64			
	82	19.18	25.90	362.191	89.298	232	302	1.00	199.21	49.11			

Wind Speed:	117	mph	FW@Base	46	φ:	0.85	Site No.:	88018
Ice Wind Sp.	50	mph	Height	300			Engineer:	BD
Ice Thick.	0.5	in	Slope	-0.1233333	Service Loads?	N	Date:	44524
			Apex	372.972973	Seismic Loads?	N	Carrier:	AT&T Mobility

Load Case Description	Dead Load Factor	Wind Load Factor	Strength Factor	Load Case Type	Basic Wind	Wind Dir. (deg)	Mean Wind Start El.	Mean Wind Stop El.	Ice Thick.	Ice Density	Temp.	Point Loads
					Speed*							
W 0	1.2	1	1	Regular	116.898395	0			0	56	50	
W 180	1.2	1	1	Regular	116.898395	180			0	56	50	
W 45	1.2	1	1	Regular	116.898395	45			0	56	50	
W -45	1.2	1	1	Regular	116.898395	-45			0	56	50	
W 90	1.2	1	1	Regular	116.898395	90			0	56	50	
W -90	1.2	1	1	Regular	116.898395	-90			0	56	50	

W 0 Ice	1.2	1	1	Regular	49.9565789	0			0.5	56	10	
W 180 Ice	1.2	1	1	Regular	49.9565789	180			0.5	56	10	
W 45 Ice	1.2	1	1	Regular	49.9565789	45			0.5	56	10	
W -45 Ice	1.2	1	1	Regular	49.9565789	-45			0.5	56	10	
W 90 Ice	1.2	1	1	Regular	49.9565789	90			0.5	56	10	
W -90 Ice	1.2	1	1	Regular	49.9565789	-90			0.5	56	10	

Foundation

Design Loads (Factored)

Compression/Leg:	452.00	k
Uplift/Leg:	318.50	k
Shear/Leg:	62.69	k

Face Width @ Top of Pier (d_1):	4.00	ft
Face Width @ Bottom of Pier (d_2):	8.00	ft
Total Length of Pier (l):	8.00	ft
Height of Pedestal Above Ground (h):	0.50	ft
Width of Pad (W):	18.00	ft
Length of Pad (L):	18.00	ft
Thickness of Pad (t):	3.00	ft
Water Table Depth (w):	99.00	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Soil (Above Water Table):	100.0	pcf
Unit Weight of Soil (Below Water Table):	37.6	pcf
Friction Angle of Uplift (A):	20	°
Ultimate Compressive Bearing Pressure:	40000	psf
Ultimate Skin Friction:	197	psf

Volume Pier (Total):	298.67	ft ³
Volume Pad (Total):	972.00	ft ³
Volume Soil (Total):	2935.41	ft ³
Volume Pier (Buoyant):	0.00	ft ³
Volume Pad (Buoyant):	0.00	ft ³
Volume Soil (Buoyant):	0.00	ft ³
Weight Pier:	44.80	k
Weight Pad:	145.80	k
Weight Soil:	293.54	k
Uplift Skin Friction:	31.91	k

Uplift Check

ϕ s Uplift Resistance (k)	Ratio	Result
387.04	0.82	OK

Axial Check

ϕ s Axial Resistance (k)	Ratio	Result
9720.00	0.05	OK

Anchor Bolt Check

Bolt Diameter (in)	2.25
# of Bolts	6
Steel Grade	A36
Steel Fy	36
Steel Fu	58
Detail Type	C

Usage Ratio	Result
0.48	OK

Site No.:	88018
Engineer:	BD
Date:	11/24/21
Carrier:	AT&T Mobility

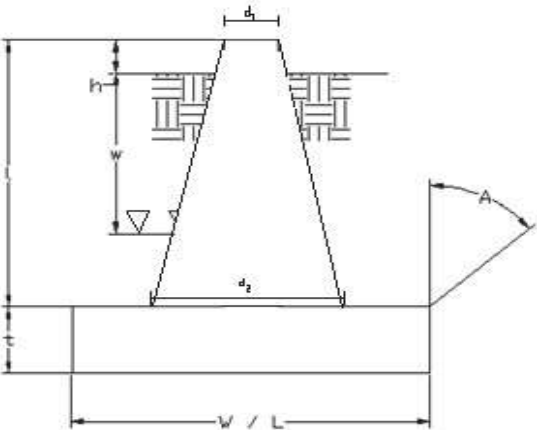


EXHIBIT 4



VICINITY MAP

BRD WATCH SITE
PLEASE CONTACT BRD.WATCH@AMERICANTOWER.COM OR
AMERICAN TOWER NOC AT 877-514-4837 FOR ASSISTANCE.



AMERICAN TOWER®

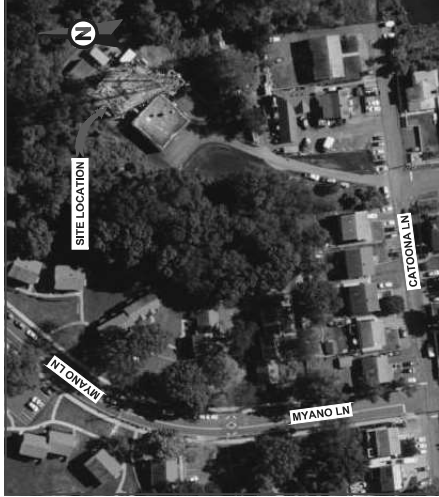
SITE NAME: STAMFORD (KATOONA)

SITE NUMBER: 88018

ATC PROJECT NUMBER: 13683396_C9_06

SITE ADDRESS: 168 CATOONA LN

STAMFORD, CT 06902



LOCATION MAP

MOUNT REINFORCEMENT DRAWINGS PREPARED FOR AT&T MOBILITY

PROJECT TEAM	PROJECT DESCRIPTION	SHEET	SHEET TITLE	REV.
TOWER OWNER AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801	THE PROJECT DEPICTED IN THESE PLANS ARE BASED ON THE COMPLETED UNDER ENGINEERING PROJECT NUMBER 13683396_C9_01 DATED 11/19/21. SATISFACTORY COMPLETION OF THE WORK INDICATED IN THESE PLANS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.	G-002	IBC GENERAL NOTES & MOUNT MODIFICATION INSPECTION	0
		S-101	MODIFICATION PROFILE (ALPHA & BETA SECTORS)	0
		S-102	MODIFICATION PROFILE (GAMMA SECTOR)	0
		S-103	SAFETY CLIMB LAYOUT	0
		R-901	SUPPLEMENTAL	0
		R-902	SUPPLEMENTAL	0
ENGINEERED BY ATC TOWER SERVICES 3500 REGENCY PARKWAY, SUITE 100 CARY, NC 27518	THE PROJECT DEPICTED IN THESE PLANS OUPUTES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1453(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.12100 (b)(7).	R-903	SUPPLEMENTAL	0
CARRIER INFORMATION CARRIER: AT&T MOBILITY CARRIER SITE NAME: MRCBTB051681 CARRIER SITE NUMBER: NA	COMPLIANCE CODE ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. ANSITIAIEA: STRUCTURAL STANDARDS (222-H EDITION) 2. INTERNATIONAL BUILDING CODE (2015 IBC) 3. CONNECTICUT STATE BUILDING CODE (2018)			
	PROJECT LOCATION GEOGRAPHIC COORDINATES LATITUDE: 41.052825 LONGITUDE: -73.56304722			

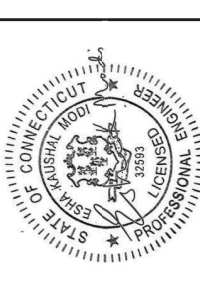


AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: 919.469.1212
CON. PEC: 0001533

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REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	KJ	02/17/22
△			
△			
△			

ATC SITE NUMBER:
88018
ATC SITE NAME:
STAMFORD (KATOONA)
CONNECTICUT
SITE ADDRESS:
168 CATOONA LN
STAMFORD, CT 06902



Authorized by "EOR"
18 Feb 2022 04:41:35 cosign

DRAWN BY:	KJ
APPROVED BY:	MCC
DATE DRAWN:	02/17/22
ATC JOB NO:	13683396_C9_06

COVER

SHEET NUMBER:	G-001
REVISION:	0

AMERICAN TOWER

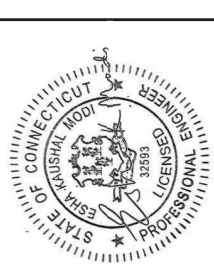
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: 919.466.1112
FAX: 919.466.1112
CON. PEC:0001533

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REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	KJ	02/17/22

ATC SITE NUMBER:
88018

ATC SITE NAME:
STAMFORD (KATOOONA)
CONNECTICUT
SITE ADDRESS:
168 CATOONA LN
STAMFORD, CT 06802

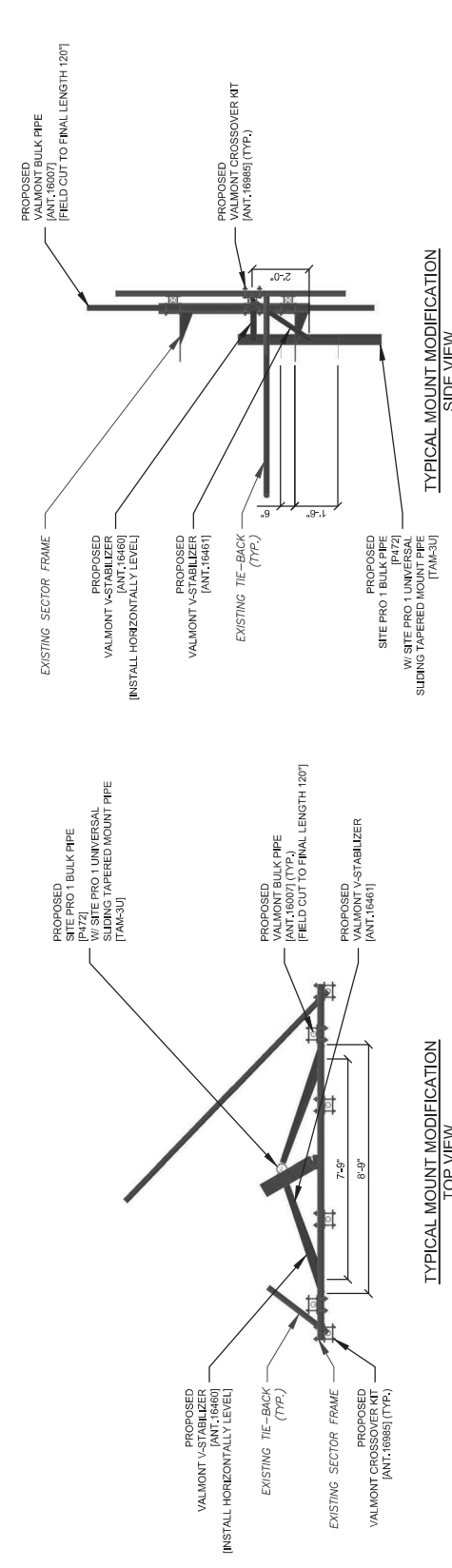
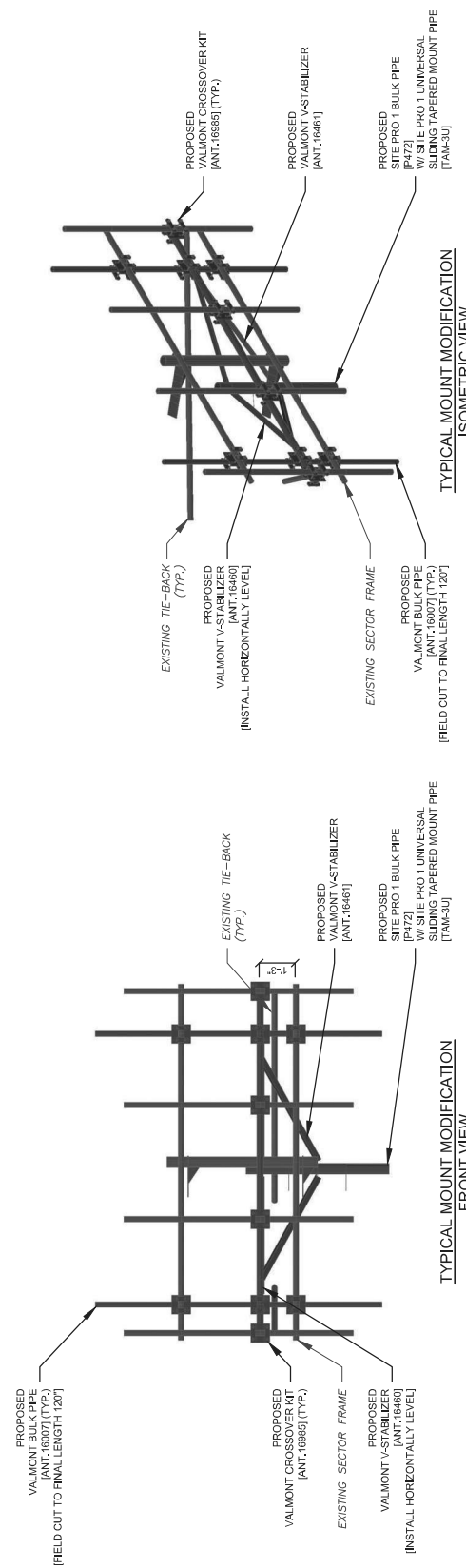


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DRAWN BY:	KJ
APPROVED BY:	MCC
DATE DRAWN:	02/17/22
ATC JOB NO:	13683396_C9_06

MODIFICATION PROFILE
(ALPHA & BETA SECTORS)

SHEET NUMBER:	S-101
REVISION:	0



NOTE:
IN THE EVENT A PROPOSED MODIFICATION PART LISTED IN THE DRAWINGS IS NOT AVAILABLE, AN APPROVED EQUIVALENT CAN BE SUBSTITUTED. FOR APPROVAL OF EQUIVALENT PART OR QUESTIONS, PLEASE CONTACT AMERICAN TOWER PM INBOX AT PM@AMERICANTOWER.COM.

REINFORCEMENT MATERIALS LIST (ALL SECTORS)						
QUANTITY REQUIRED	MANUFACTURER	PART NUMBER	DESCRIPTION	LENGTH	PART WEIGHT (lb)	WEIGHT (lb)
8	VALMONT	ANT:16007	PIPE 2.3/8"OD X 125' ASTM A53 GRADE B, SCHEDULE 40	10'-6"	39.0	234
24	VALMONT	ANT:16007	CROSSOVER PLATE	---	12.0	288
2	VALMONT	ANT:16007	SECTOR FRAME STABILIZER - HORIZONTAL	---	65.7	131
2	VALMONT	ANT:16007	SECTOR FRAME STABILIZER - VERTICAL	---	65.7	131
2	SITE PRO 1	TAM-3U	SLIDING TAPERED MOUNT PIPE	---	78.7	157
2	SITE PRO 1	P472	PIPE 4-1/2"OD X 72' ASTM A53 GRADE B, SCHEDULE 40	6'-0"	65.0	130
					TOTAL WEIGHT (lb)	1,071



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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	KJ	02/17/22

ATC SITE NUMBER:

88018

ATC SITE NAME:

STAMFORD (KATOONA)

CONNECTICUT

SITE ADDRESS:

168 CATOONA LN
STAMFORD CT 06902



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18 Feb 2022 04:41:36

DRAWN BY:	KJ
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APPROVED BY:	MCC
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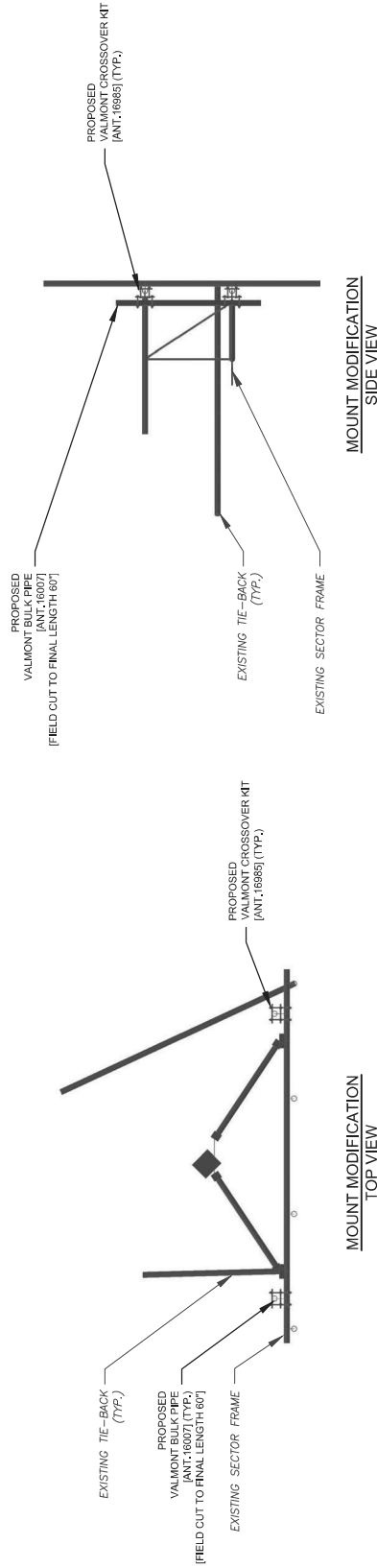
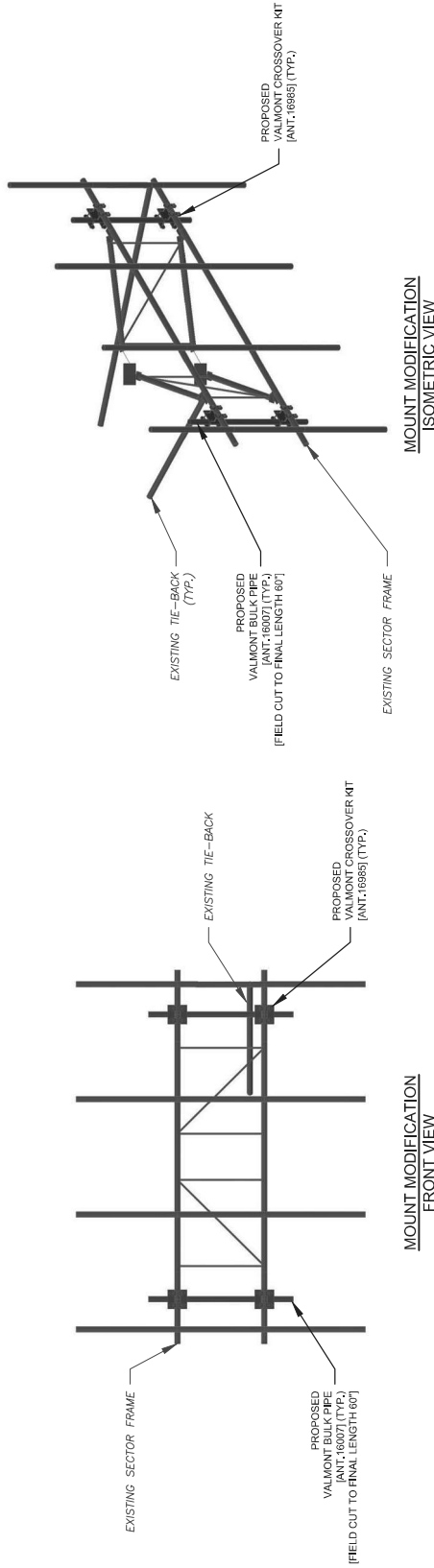
DATE DRAWN:	02/17/22
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ATC JOB NO:	13683396_C9_06
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MODIFICATION PROFILE (GAMMA SECTOR)

SHEET NUMBER:	REVISION:
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S-102	0
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REINFORCEMENT MATERIALS LIST (ALL SECTORS)							
QUANTITY REQUIRED	MANUFACTURER	PART NUMBER	DESCRIPTION	LENGTH	PART WEIGHT (lb)	WEIGHT (lb)	NOTES
6	VALMONT	ART: 16007	PIPE 3.30"OD X 120' ASTIN A53 GRADE B, SCHEDULE 40	10' 6"	39.0	234	OK EQUIVALENT SITE PRO 1 - P2138
24	VALMONT	ART: 6986	CROSSOVER PLATE		12.0	268	OK EQUIVALENT SITE PRO 1 - 50209
2	VALMONT	ART: 16460	SECTOR FRAME STAIRS L - HORIZONTAL	----	55.7	131	OK EQUIVALENT SITE PRO 1 - 5934
2	VALMONT	ART: 16461	SECTOR FRAME STAIRS R - HORIZONTAL	----	55.7	131	OK EQUIVALENT SITE PRO 1 - 5934
1	VALMONT	ART: 16462	1" STAND-OFF 3-1/2" AND 4-1/2" - 30 PER UNIVERSAL SLOING		99.2	197	OK EQUIVALENT SITE PRO 1 - 5934
2	SITE PRO 1	PM400	TAPEDED PIPE JOINT		65.0	130	OK EQUIVALENT SITE PRO 1 - 5934
2	SITE PRO 1	P422	PIPE 4.14"OD X 1/2" - ASTIN A53 GRADE B, SCHEDULE 40	6' 6"	65.0	130	OK EQUIVALENT SITE PRO 1 - 5934
						TOTAL WEIGHT (lb)	1901
							GAUZALED



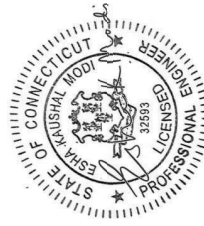
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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	KJ	02/17/22

ATC SITE NUMBER:
88018

ATC SITE NAME:
STAMFORD (KATONAH)
CONNECTICUT

SITE ADDRESS:
168 CATOONA LN
STAMFORD, CT 06902

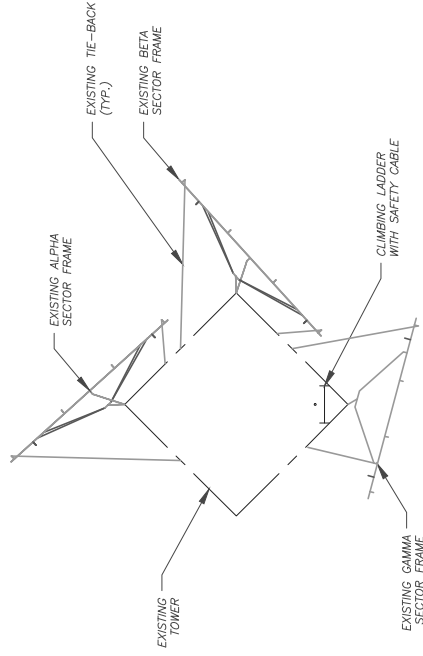


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DRAWN BY:	KJ
APPROVED BY:	MCC
DATE DRAWN:	02/17/22
ATC JOB NO:	13883396_C9_06

SAFETY CLIMB LAYOUT

SHEET NUMBER: S-103	REVISION: 0
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NOTE: CONTRACTOR TO INSTALL MOUNT MODIFICATIONS PER THE MANUFACTURERS SPECIFICATION. MODIFICATIONS SHALL NOT OBSTRUCT, INTERFERE, OR BLOCK EXISTING SAFETY CLIMB SYSTEM. IF ANY OF THESE OCCURS DURING INSTALLATION CONTACT THE AMERICAN TOWER PII INBOX PII@AMERICANTOWER.COM

SUPPLEMENTAL

SHEET NUMBER:
R-901

REVISION:
0

11:20 AM 2/14/2022

Option 1 - Modify: Estimate for AT&T Mobility @ 88018 (STAMFORD (KATOONA)) -- 13683396_C9_06

Site Data and Design Parameters				Dates and Designers			
Asset OTM #	88018			Mount Analysis Date / By	11/19/2021	/	AG
Asset Name	STAMFORD (KATOONA)			Design Date / By	2/14/2022	/	MCC
State	Connecticut			Checked Date / By		/	
County	Fairfield			Detailer (Prev/Current/Level)		/	
City	Stamford			Software		/	RISA
Falling Analysis Eng. #	13683396_C9_01			Tower Type	Self-Support		4-sided
Mod. Drawing Eng. #	13683396_C9_06			Mount Type			T-frame

Building Codes	TIA/IBC:	ANSI/TIA-222-H	/	2015 IBC
	Local:	2018 Connecticut State Building Code		
Falling Analysis % / Code	122%	/	TIA-H	
Post Mod % / Controlling Member	85%	/	Connections	
Usage Limit % / Reason	100%	/	N/A	

Any modification in design comments or assumptions? **No** *(Including notes to the Estimator)*

Item #	Scope Item	Modification Summary
1	Install Site Pro 1 SFS-H V Style Stabilizer ANT.16460 on A & B sector(s)	
2	Install Site Pro 1 SFS-V V Style Stabilizer ANT.16461 on A & B sector(s)	
3	Install Site Pro 1 P30150 Pipe w/ Site Pro 1 SCX7-U (ANT.16985) crossovers on A & B sector(s)	
4	Install Site Pro 1 P2126 (ANT.16007) MPW/ Site Pro 1 SCX7-U (ANT.16985) crossovers on A & B sector(s) at position 2.*	
5	Install Site Pro 1 P2126 (ANT.16007) MPW/ Site Pro 1 SCX7-U (ANT.16985) crossovers on A & B sector(s) at position 5.*	
6	Install Site Pro 1 P2126 (ANT.16007) MPW/ Site Pro 1 SCX7-U (ANT.16985) crossovers on Gamma sector(s) at position 2.*	
7	Install Site Pro 1 P2126 (ANT.16007) MPW/ Site Pro 1 SCX7-U (ANT.16985) crossovers on Gamma sector(s) at position 5.*	
8	Install Site Pro 1 TAM-3U Leg Mount with P472 Pipe on A & B tower legs	

Estimated Modification Cost	\$24,000
-----------------------------	----------

X:\S-V\Stamford (Katoona)_CT (88018)\13683396 AT&T MOBILITY\13683396_06_MOUNT_DRW\Mount Modification SOW v1.4.8b

Option 2 - Replace: Estimate for AT&T Mobility @ 88018 (STAMFORD (KATOONA)) -- 13683396_C9_06

Tower Info		Additional Info	
Tower Number	88018	Can modifications be installed?	Yes
Tower Name	STAMFORD (KATOONA)	What is the post-mod capacity?	85%
State	Connecticut		

Jurisdictional Codes		Project Requirements	
Design TIA Code	Unknown	New Mount Face Width	150 in
Current TIA Code	ANSI/TIA-222-H	Number of Sectors	3
IBC	2015 IBC		
Other	2018 Connecticut State Building Code		

Project Information	
Carrier	AT&T Mobility
Structure Type	Self-Support

Recommended Mount Replacement	Sabre C10857007C*	Estimated Replacement Cost	\$ 36,000.00
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*or approved equivalent



AMERICAN TOWER
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: 919.469.1112
CON. PECJ001533

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REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	KJ	02/17/22
2			
3			
4			
5			

ATC SITE NUMBER:
88018

ATC SITE NAME:
STAMFORD (KATOONA)

CONNECTICUT

SITE ADDRESS:
165 CATOONA LN
STAMFORD, CT 06902



Authorized by "EOR"
18 Feb 2022 04:41:36
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DRAWN BY:	KJ
APPROVED BY:	MCC
DATE DRAWN:	02/17/22
ATC JOB NO:	13683396_C9_06

SUPPLEMENTAL

SHEET NUMBER:	R-903
REVISION:	0

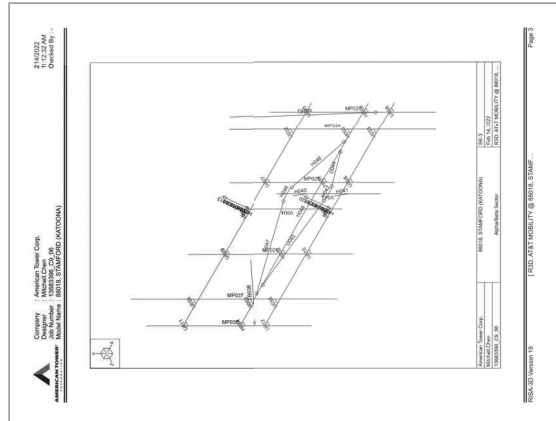
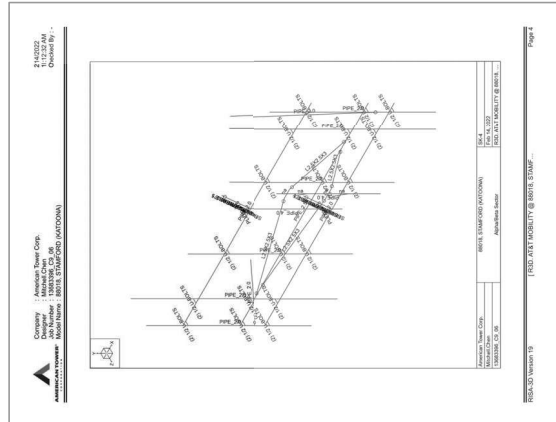
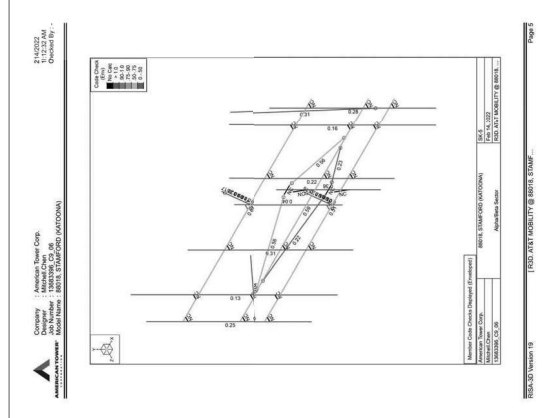
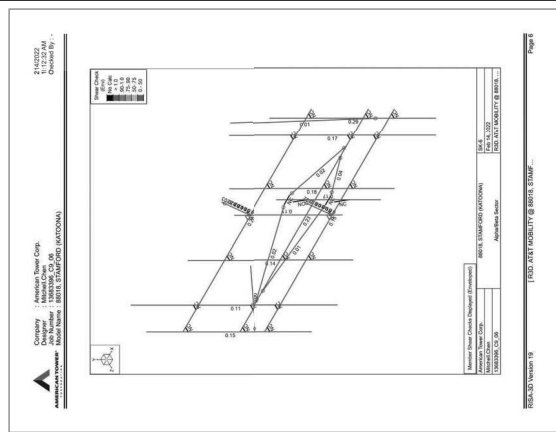
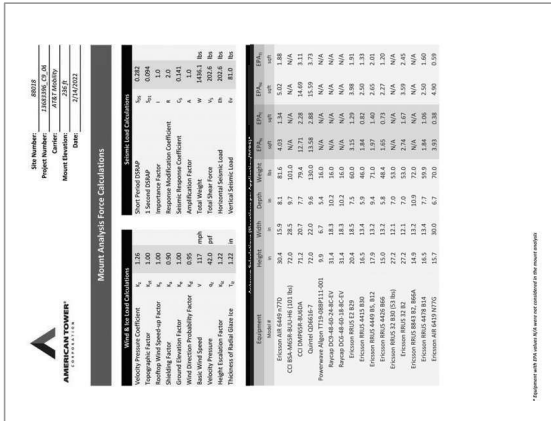
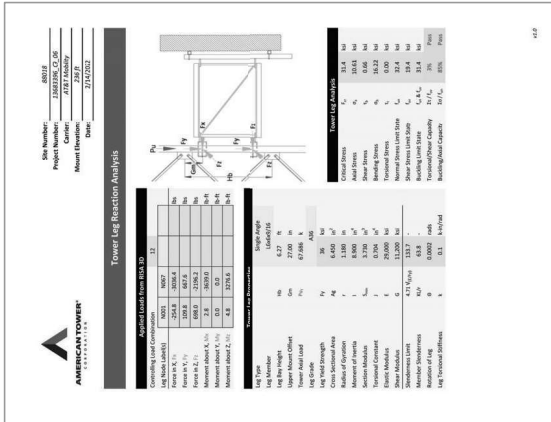
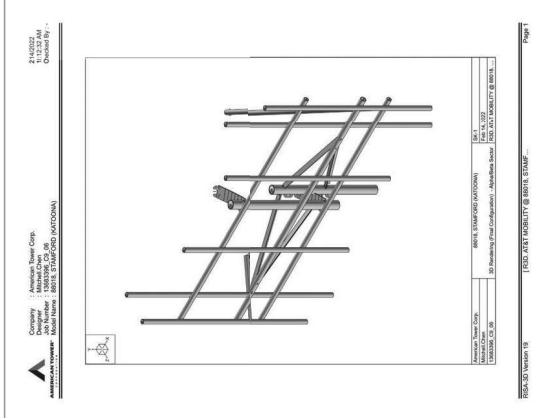
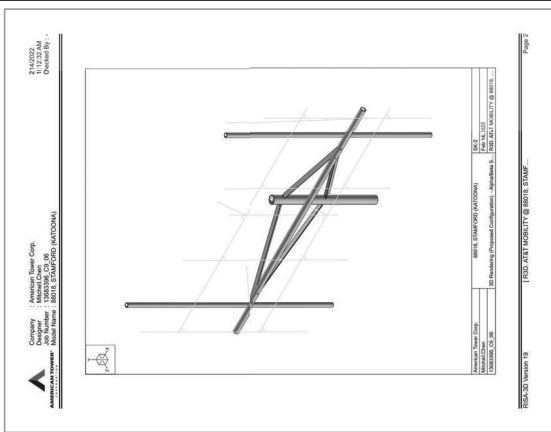


EXHIBIT 5



Radio Frequency Emissions Analysis Report

March 16, 2022

American Tower on behalf of AT&T

Site Name: STAMFORD WEST

Site Address: 168 CATOONAH LANE, STAMFORD, CT 06902

FA#: 10034997

USID: 60419

Site Compliance Summary

Compliance Status:	Compliant
Carrier MPE%	0.11238800%
of FCC General Population Allowable Limit:	
Composite MPE%	0.21237200%
of FCC General Population Allowable Limit:	



March 16, 2022

AT&T New England
Attn: John Benedetto, RF Manager
5050 Cochituate Road Suite 550 - 13&14
Framingham, MA 01701

Emissions Analysis for Site: **STAMFORD WEST**

Centerline Communications, LLC ("Centerline") was directed to analyze the proposed AT&T facility to be located on a tower near **168 CATOONAH LANE, STAMFORD CT 06902** for the purpose of determining whether the emissions from the proposed facility are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 700 MHz (LTE) band is $467 \mu\text{W}/\text{cm}^2$, 800 (LTE) band is $533 \mu\text{W}/\text{cm}^2$, 850 (5G) band is $567 \mu\text{W}/\text{cm}^2$, 1900 MHz (PCS), 2100 (AWS), 2300 (WCS) and 5 GHz (B46) bands is $1000 \mu\text{W}/\text{cm}^2$.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits, as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Additional details can be found in FCC OET 65.



Calculations

Calculations were performed for the proposed facility using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing focused omnidirectional antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. This is a very conservative estimate since the gain reduction in actual applications is typically greater than 10 dB in the direction of ground immediately surrounding the facility. Real world emissions values from this facility are expected to be lower than values listed in this report at ground level. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. All power values expressed and analyzed are maximum power levels expected to be used on all radios.

For each sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

RRH #	Frequency Band	Technology	Channel Count	Transmit Power per Channel (W)
1	700	LTE	2	30
2	700	LTE	2	30
3	1900	LTE	4	30
4	2100	AWS	4	45
5	3700	5G C-Band	1	108.4
6	3450	5G DoD	1	54.2
6	3450	5G DoD	1	54.2
7	700	LTE	4	30
7	850	5G	4	30
8	2300	WCS	4	18.75

Table 1: Channel Data Table



The following antennas listed in Table 2 were used in the modeling for transmission in the 700 MHz (LTE), 850 MHz (5G), 1900 MHz (PCS), 2100 MHz (AWS), 2300 MHz (WCS) and 5 GHz (Band 46) frequency bands. This is based on information from the carrier with regard to anticipated antenna selection.

Sector	Antenna Number	Make / Model	Centerline (ft)
A	1	QUINTEL QD6616-7 V1	235
A	1	QUINTEL QD6616-7 V1	235
A	1	QUINTEL QD6616-7 V1	235
A	1	QUINTEL QD6616-7 V1	235
A	2	ERICSSON AIR6449	233
A	3	ERICSSON AIR6419	237
A	3	ERICSSON AIR6419	237
A	4	CCI DMP65R-BU6D	235
A	4	CCI DMP65R-BU6D	235
A	4	CCI DMP65R-BU6D	235
B	5	QUINTEL QD6616-7 V1	235
B	5	QUINTEL QD6616-7 V1	235
B	5	QUINTEL QD6616-7 V1	235
B	5	QUINTEL QD6616-7 V1	235
B	6	ERICSSON AIR6449	233
B	7	ERICSSON AIR6419	237
B	7	ERICSSON AIR6419	237
B	8	CCI DMP65R-BU6D	235
B	8	CCI DMP65R-BU6D	235
B	8	CCI DMP65R-BU6D	235
G	9	CCI BSA-M65R-BUU-H6	235
G	9	CCI BSA-M65R-BUU-H6	235
G	9	CCI BSA-M65R-BUU-H6	235
G	9	CCI BSA-M65R-BUU-H6	235
G	9	CCI BSA-M65R-BUU-H6	235
G	9	CCI BSA-M65R-BUU-H6	235
G	10	ERICSSON AIR6449	233
G	11	ERICSSON AIR6419	237
G	11	ERICSSON AIR6419	237
G	12	CCI BSA-M65R-BUU-H6	235
G	12	CCI BSA-M65R-BUU-H6	235
G	12	CCI BSA-M65R-BUU-H6	235
G	12	CCI BSA-M65R-BUU-H6	235
G	13	CCI BSA-M65R-BUU-H6	235



G	13	CCI BSA-M65R-BUU-H6	235
G	13	CCI BSA-M65R-BUU-H6	235
G	13	CCI BSA-M65R-BUU-H6	235

Table 2: Antenna Data

All calculations were done with respect to uncontrolled / general population threshold limits.



Results

Per the calculations completed for the proposed AT&T configurations *Table 3* shows resulting emissions power levels and percentages of the FCC's allowable general population limit.

ID	Make / Model	Frequency Band	Gain (dBd)	Centerline (ft)	Channel Count	TX Power (W)	ERP (W)	MPE %
AT&T A 1	QUINTEL QD6616-7 V1	700	11.7526	235.0	2	30	1197.7053	0.000509000
AT&T A 1	QUINTEL QD6616-7 V1	700	11.7526	235.0	2	30	1197.7053	0.000509000
AT&T A 1	QUINTEL QD6616-7 V1	1900	15.2682	235.0	4	30	5381.9540	0.000500000
AT&T A 1	QUINTEL QD6616-7 V1	2100	15.4013	235.0	4	45	8324.1758	0.000742000
AT&T A 2	ERICSSON AIR6449	3700	23.55	233.0	1	108.4	24548.7443	0.003654000
AT&T A 3	ERICSSON AIR6419	3450	22.85	237.0	1	54.2	10447.1850	0.016296000
AT&T A 3	ERICSSON AIR6419	3450	22.85	237.0	1	54.2	10447.1850	0.014484000
AT&T A 4	CCI DMP65R-BU6D	700	11.35	235.0	4	30	2183.3330	0.001088000
AT&T A 4	CCI DMP65R-BU6D	850	11.35	235.0	4	30	2183.3330	0.000786000
AT&T A 4	CCI DMP65R-BU6D	2300	14.95	235.0	4	18.75	3126.0794	0.000329000
AT&T B 5	QUINTEL QD6616-7 V1	700	11.8699	235.0	2	30	1230.4954	0.000493000
AT&T B 5	QUINTEL QD6616-7 V1	700	11.8699	235.0	2	30	1230.4954	0.000493000
AT&T B 5	QUINTEL QD6616-7 V1	1900	15.1381	235.0	4	30	5223.1197	0.000487000
AT&T B 5	QUINTEL QD6616-7 V1	2100	15.4987	235.0	4	45	8512.9727	0.000823000
AT&T B 6	ERICSSON AIR6449	3700	23.55	233.0	1	108.4	24548.7443	0.003518000
AT&T B 7	ERICSSON AIR6419	3450	22.85	237.0	1	54.2	10447.1850	0.015960000
AT&T B 7	ERICSSON AIR6419	3450	22.85	237.0	1	54.2	10447.1850	0.013861000
AT&T B 8	CCI DMP65R-BU6D	700	11.55	235.0	4	30	2286.2303	0.001058000
AT&T B 8	CCI DMP65R-BU6D	850	11.35	235.0	4	30	2183.3330	0.000748000
AT&T B 8	CCI DMP65R-BU6D	2300	14.95	235.0	4	18.75	3126.0794	0.000328000
AT&T G 9	CCI BSA-M65R-BUU-H6	700	14.05	235.0	4	30	4065.5563	0.000466000
AT&T G 9	CCI BSA-M65R-BUU-H6	700	14.55	235.0	4	30	4561.6292	0.000062000
AT&T G 9	CCI BSA-M65R-BUU-H6	850	14.95	235.0	4	30	5001.7270	0.000277000
AT&T G 9	CCI BSA-M65R-BUU-H6	850	15.45	235.0	4	30	5612.0300	0.000036000
AT&T G 9	CCI BSA-M65R-BUU-H6	1900	16.25	235.0	4	30	6747.1441	0.000112000
AT&T G 9	CCI BSA-M65R-BUU-H6	1900	15.75	235.0	4	30	6013.3985	0.000025000
AT&T G 10	ERICSSON AIR6449	3700	23.55	233.0	1	108.4	24548.7443	0.003518000
AT&T G 11	ERICSSON AIR6419	3450	22.85	237.0	1	54.2	10447.1850	0.015596000
AT&T G 11	ERICSSON AIR6419	3450	22.85	237.0	1	54.2	10447.1850	0.014853000
AT&T G 12	CCI BSA-M65R-BUU-H6	700	14.05	235.0	2	30	2032.7782	0.000233000
AT&T G 12	CCI BSA-M65R-BUU-H6	700	14.55	235.0	2	30	2280.8146	0.000031000



AT&T G 12	CCI BSA-M65R-BUU-H6	2100	16.45	235.0	4	30	7065.1272	0.000082000
AT&T G 12	CCI BSA-M65R-BUU-H6	2100	16.55	235.0	4	30	7229.6951	0.000014000
AT&T G 13	CCI BSA-M65R-BUU-H6	700	14.05	235.0	2	30	2032.7782	0.000233000
AT&T G 13	CCI BSA-M65R-BUU-H6	700	14.55	235.0	2	18.75	2280.8146	0.000019000
AT&T G 13	CCI BSA-M65R-BUU-H6	2300	16.05	235.0	4	18.75	4027.1703	0.000134000
AT&T G 13	CCI BSA-M65R-BUU-H6	2300	16.35	235.0	4	18.75	4315.1908	0.000031000
AT&T MPE%								0.11238800 %

Table 3: AT&T Antenna Inventory & Power Level



FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 4* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s).

Frequency Band	Technology	Centerline (ft.)	# of Channels	ERP W (Per Channel)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	MPE %
700	LTE	235.0	2	598.8526715	0.0118660	2333	0.00050900
700	LTE	235.0	2	598.8526715	0.0118660	2333	0.00050900
1900	LTE	235.0	4	1345.488504	0.0249800	5000	0.00050000
2100	AWS	235.0	4	2081.043941	0.0371200	5000	0.00074200
3700	5G C-Band	233.0	1	24548.74429	0.1826890	5000	0.00365400
3450	5G DoD	237.0	1	10447.18503	0.8147830	5000	0.01629600
3450	5G DoD	237.0	1	10447.18503	0.7241980	5000	0.01448400
700	LTE	235.0	4	545.8332546	0.0253890	2333	0.00108800
850	5G	235.0	4	545.8332546	0.0222790	2833	0.00078600
2300	WCS	235.0	4	781.5198418	0.0164620	5000	0.00032900
Alpha MPE%							0.03889700
700	LTE	235.0	2	615.2476894	0.0114940	2333	0.00049300
700	LTE	235.0	2	615.2476894	0.0114940	2333	0.00049300
1900	LTE	235.0	4	1305.779937	0.0243720	5000	0.00048700
2100	AWS	235.0	4	2128.24318	0.0411400	5000	0.00082300
3700	5G C-Band	233.0	1	24548.74429	0.1758830	5000	0.00351800
3450	5G DoD	237.0	1	10447.18503	0.7979810	5000	0.01596000
3450	5G DoD	237.0	1	10447.18503	0.6930620	5000	0.01386100
700	LTE	235.0	4	571.5575834	0.0246930	2333	0.00105800
850	5G	235.0	4	545.8332546	0.0211970	2833	0.00074800
2300	WCS	235.0	4	781.5198418	0.0164110	5000	0.00032800
Beta MPE%							0.03776900
700	LTE	235.0	4	1016.389082	0.0108660	2333	0.00046600
700	LTE	235.0	4	1140.407307	0.0014440	2333	0.00006200
850	5G	235.0	4	1250.431747	0.0078520	2833	0.00027700
850	5G	235.0	4	1403.007496	0.0010190	2833	0.00003600
1900	LTE	235.0	4	1686.786014	0.0055880	5000	0.00011200
1900	LTE	235.0	4	1503.349617	0.0012680	5000	0.00002500
3700	5G C-Band	233.0	1	24548.74429	0.1758830	5000	0.00351800
3450	5G DoD	237.0	1	10447.18503	0.7798170	5000	0.01559600
3450	5G DoD	237.0	1	10447.18503	0.7426290	5000	0.01485300



700	LTE	235.0	2	1016.389082	0.0054350	2333	0.00023300
700	LTE	235.0	2	1140.407307	0.0007220	2333	0.00003100
2100	AWS	235.0	4	1766.281789	0.0040970	5000	0.00008200
2100	AWS	235.0	4	1807.423777	0.0006940	5000	0.00001400
700	LTE	235.0	2	1016.389082	0.0054350	2333	0.00023300
700	LTE	235.0	2	1140.407307	0.0004510	2333	0.00001900
2300	WCS	235.0	4	1006.792586	0.0067010	5000	0.00013400
2300	WCS	235.0	4	1078.797692	0.0015420	5000	0.00003100
Gamma MPE%							0.03572200
AT&T MPE%							0.11238800 %

Table 4: AT&T Maximum Sector MPE Power Values



Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the AT&T facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

Carrier	Predicted MPE %
AT&T	0.11238800%
Unknown	0.00506600%
T-Mobile	0.00707200%
Sprint	0.00833600%
Verizon	0.07951000%
Composite	0.21237200%

Table 5: Total Predicted MPE(%) by Carrier

Compliance Status:

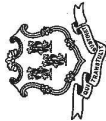
The anticipated composite MPE value for this site assuming all carriers present is **0.21237200%** of the allowable FCC established general population limit sampled at the ground level.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

Katrina Styx
RF Compliance Consultant
Centerline Communications, LLC
750 West Center St. Suite 301
West Bridgewater, MA 02379

A handwritten signature in black ink, appearing to read "Katrina Styx", is positioned below the printed contact information.

EXHIBIT 6



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

September 6, 2016

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **PE1133-YER-20160805** - Celco Partnership d/b/a Verizon Wireless sub-petition for a declaratory ruling for approval of an eligible facility request for modifications to an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby approves your Eligible Facilities Request (EFR) to install antennas and associated equipment at the above-referenced facility pursuant to the Federal Communications Commission Wireless Infrastructure Report and Order, with the following conditions:

1. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
2. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by the Petitioner shall be removed within 60 days of the date the antenna ceased to function;
3. The validity of this action shall expire one year from the date of this letter; and
4. The Petitioner 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.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the EFR dated August 4, 2016.

Thank you for your attention and cooperation.

Very truly yours,

Melanie Bachman
Acting Executive Director

MB/CW

c: Honorable David Martin, Mayor, City of Stamford
Norman Cole, AUCP, Land Use Bureau Chief, City of Stamford

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OFFICE OF THE SECRETARY
Affirmative Action / Equal Opportunity Employer



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

April 28, 2014

Tom Kincaid
Sprint
48 Spruce Street
Oakland, NJ 07436

RE: **EM-SPRINT-135-140328** - Sprint Spectrum L.P. notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mr. Kincaid:

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 the 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;
- Within 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 March 28, 2014. 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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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

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April 28, 2014
Page 2

with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,


Melanie A. Bachman
Acting Executive Director

MAB/RDM/cm

c: The Honorable David Martin, Mayor, City of Stamford
Norman Cole, Planning and Zoning Dir., City of Stamford
American Tower Corporation



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
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www.ct.gov/csc

June 18, 2014

James McInturf
American Tower Corporation
2595 Lynwood Place
Meritt Island, FL 32953

RE: EM-SIRIUS-135-140527 – Sirius XM Radio, Inc. (SXM) notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mr. McInturf:

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 the 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;
- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by Sirius XM Radio, Inc. shall be removed within 60 days of the date the antenna ceased to function;
- 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 May 21, 2014. 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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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,


Melanie A. Bachman
Acting Executive Director

MAB/CDM/jb

c: The Honorable David Martin, Mayor, City of Stamford
Norman Cole, AICP, Land Use Bureau Chief, City of Stamford



siting_council@ct.gov



Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
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www.ct.gov/csc

May 30, 2014
Page 2

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,

Wm. D. Bell

Melanie A. Bachman
Acting Executive Director

 $M_{AB}/CDM/cm$

c: The Honorable David Martin, Mayor, City of Stamford
Norman Cole, AICP, Land Use Bureau Chief, City of Stamford
American Tower

Adam Brailard
Smartlink
33 Boston Post Rd
Marlborough, MA

RE: **EM-CING-135-140512** – New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mr. Brailard:

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 the 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;
- Within 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 May 9, 2014. The modifications are in compliance with the exception criteria in Section 16-50f-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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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



CONNECTICUT SITTING COUNCIL



STATE OF CONNECTICUT

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December 11, 2015

Denise Sabo
Northeast Site Solutions
199 Brickyard Road
Farmington, CT 06032

RE: **TS-SENET-135-151026** - Senet request for an order to approve tower sharing at an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Ms. Sabo:

At a public meeting held on December 10, 2015, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-59aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures with the following conditions:

- Any deviation from the proposed installation as specified in the original tower share request and supporting materials with the Council shall render this decision invalid;
- Any material changes to the proposed installation as specified in the original tower share request and supporting materials filed with the Council shall require an explicit request for modification to the Council pursuant to Connecticut General Statutes § 16-50aa, including 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;
- Not less than 45 days after completion of the proposed installation, the Council shall be notified in writing that the installation has been completed;
- Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by Senet shall be removed within 60 days of the date the antenna ceased to function;
- 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.

This decision is under the exclusive jurisdiction of the Council and applies only to this request for tower sharing dated October 23, 2015. This facility has 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. Any deviation from the approved tower sharing request is enforceable under the provisions of Connecticut General Statutes § 16-50a.

The proposed shared use is to be implemented as specified in your letter dated October 23, 2015, including the placement of all necessary equipment and shelters within the tower compound.

Please be advised that the validity of this action shall expire one year from the date of this letter.

Thank you for your attention and cooperation.

Very truly yours,

Robert Stein

Robert Stein
Chairman
RS/CH/ln

c: The Honorable David Martin, Mayor, City of Stamford
Norman Cole, AICP, Land Use Bureau Chief, City of Stamford
Emily Hannon, American Tower Corporation



STATE OF CONNECTICUT
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STATE OF CONNECTICUT

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January 11, 2016

Jon Ritter
Tower Resource Management, Inc.
16 Chestnut Street, Suite 420
Foxboro, MA 02035

RE: **EM-T-MOBILE-135-151222** - T-Mobile Northeast LLC notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mr. Ritter:

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 the 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;
- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by T-Mobile Northeast LLC shall be removed within 60 days of the date the antenna ceased to function;
- 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 3, 2015 and additional information received on December 17, 2015. 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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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.



STATE OF CONNECTICUT
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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 16-50-73. 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.

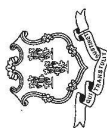
Very truly yours,



Melanie A. Bachman
Acting Executive Director

MAB/CH/lm

c: The Honorable David Martin, Mayor, City of Stamford
Norman Cole, AICP, Land Use Bureau Chief, City of Stamford
American Tower Corporation



STATE OF CONNECTICUT

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March 14, 2016

David Barbagallo
Smartlink
33 Boston Post Road West
Marlborough, MA 01752

RE: **EM-AT&T-135-160223** – AT&T Mobility, LLC notice of intent to modify an existing telecommunications facility located at 168 Catoonah Lane, Stamford, Connecticut.

Dear Mr. Barbagallo:

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

1. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
2. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T Mobility, LLC shall be removed within 60 days of the date the antenna ceased to function;
5. The validity of this action shall expire one year from the date of this letter; and
6. 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 February 23, 2016. 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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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.



<http://www.ct.gov/csc>
csc_email: siting.council@ct.gov, webmaster@ct.gov, general@ct.gov, 1-800-222-2222, Date: 03/14/2016, Connecticut Siting Council

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,



Melanie A. Bachman
Acting Executive Director

MAB/CH/cm

c: The Honorable David Martin, Mayor, City of Stamford
Norman Cole, AICP, Land Use Bureau Chief, City of Stamford
American Tower Corporation



STATE OF CONNECTICUT

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July 5, 2016

Kyle Richers
Real Estate Consultant
Transcend Wireless
10 Industrial Avenue, Suite 3
Mahwah, NJ 07430

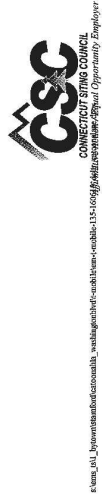
RE: **EM-T-MOBILE-135-160615** – T-Mobile notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut

Dear Mr. Richers:

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:

1. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
2. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by T-Mobile shall be removed within 60 days of the date the antenna ceased to function;
5. The validity of this action shall expire one year from the date of this letter; and
6. 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 June 7, 2016 and additional information received on June 20, 2016. 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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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.



Access to information under the Freedom of Information Act, 5 U.S.C. 552, is not guaranteed. The Council is not responsible for the content of any information received from the public.

EM-T-MOBILE-135-160615
July 5, 2016
Page 2 of 2

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,



Melanie A. Bachman
Acting Executive Director

MAB/FOC/lm

c: The Honorable David Martin, Mayor, City of Stamford
Norman Cole, AICP, Land Use Bureau Chief, City of Stamford
American Tower Corporation



STATE OF CONNECTICUT

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June 29, 2017

David Barbagallo
Smartlink LLC
85 Randway Road
Building #3, Suite 102
North Billerica, MA 01862-2105

RE: **EM-AT&T-135-170607** – AT&T notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mr. Barbagallo:

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:

1. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
2. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
5. The validity of this action shall expire one year from the date of this letter; and
6. 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 May 30, 2017. 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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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,



Melanie A. Bachman
Executive Director

MAB/CW/bm

c: The Honorable David Martin, Mayor, City of Stamford
Ralph Blessing, Land Use Bureau Chief, City of Stamford
ATC, Tower/Property Owner



STATE OF CONNECTICUT

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April 2, 2018

Ryan Lynch
Smartlink LLC
85 Rangeway Road
Building 3, Suite 102
Billerica, MA 01862

RE: **EM-AT&T-135-180315** – AT&T notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mr. Lynch:

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:

1. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
2. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
5. The validity of this action shall expire one year from the date of this letter; and
6. 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 February 23, 2018. 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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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.

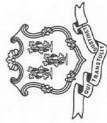
Sincerely,



Melanie A. Bachman
Executive Director

MAB/CMW/cg

c: The Honorable David Martin, Mayor, City of Stamford
Ralph Blessing, Land Use Bureau Chief, City of Stamford
American Tower Corporation, Tower and Property Owner



STATE OF CONNECTICUT

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November 6, 2018

Mathew Spaccapaniccia
SAC Wireless
540 W Madison, 9th Floor
Chicago, IL 60661

RE: **EM-SPRINT-135-180925** – Sprint notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mr. Spaccapaniccia,

The Connecticut Siting Council (Council) hereby denies your request to modify the above-referenced existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

This exempt modification request was submitted to the Council on September 25, 2018. Council staff reviewed this request for completeness and had identified a deficiency that was more fully described in a notice of incompleteness letter to the requesting entity dated October 1, 2018 (attached) and recommended that SAC Wireless provide a Power Density Report that accounts for the proposed and all other existing equipment on the tower on or before November 5, 2018. To date, the Council has not received the requested Power Density Report.

Thus, the proposed modification is not in compliance with the exemption criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies.

Sincerely,



Melanie Bachman
Executive Director

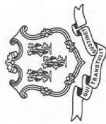
Enclosure: Incomplete Letter for EM-SPRINT-135-180925

MAB/FOC/IN

c: The Honorable David Martin, Mayor, City of Stamford
Ralph Blessing, Land Use Bureau Chief, City of Stamford
American Tower Corporation



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CONNECTICUT SITING COUNCIL
Affirmative Action / Equal Opportunity Employer



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October 1, 2018

Mathew Spaccapaniccia
SAC Wireless
540 W Madison, 9th Floor
Chicago, IL 60661

RE: **EM-SPRINT-135-180925** – Sprint notice of intent to modify an existing telecommunications facility located at 168 Carona Lane, Stamford, Connecticut.

Dear Mr. Spaccapaniccia:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on September 25, 2018.

According to Section 16-50j-71 of the Regulations of Connecticut State Agencies, "...any modification, as defined in Section 16-50j-2a of the Regulations of Connecticut State Agencies, to an existing tower site, except as specified in Sections 16-50j-72 and 16-50j-88 of the Regulations of Connecticut State Agencies, may have a substantial adverse environmental effect."

Staff has reviewed this exempt modification request for completeness and has identified a deficiency in the request. The request for exempt modification does not include a Radio Frequency Emissions Analysis (Power Density) Report.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that SAC Wireless provide a Power Density Report that accounts for the proposed and all other existing equipment on the tower on or before November 5, 2018. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to November 5, 2018.

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

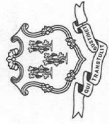
Melanie Bachman
Executive Director

MAB/FOC/JN

c: The Honorable David Martin, Mayor, City of Stamford
Ralph Blessing, Land Use Bureau Chief, City of Stamford



STATE, TOWN, COUNTY, JUDICIAL DISTRICT, AND FEDERAL DISTRICT OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Affirmative Action / Equal Opportunity Employer



STATE OF CONNECTICUT

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November 5, 2018

Kyle Richers
Transcend Wireless
10 Industrial Ave., Suite 3
Mahwah, NJ 07430

RE: **EM-T-MOBILE-135-181018** – T-Mobile notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mr. Richers:

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:

1. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
2. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by T-Mobile shall be removed within 60 days of the date the antenna ceased to function;
5. The validity of this action shall expire one year from the date of this letter; and
6. 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 September 18, 2018. 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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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



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Affirmative Action / Equal Opportunity Employer

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.

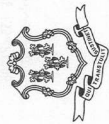
Sincerely,



Melanie A. Bachman
Executive Director

MAB/FC/emr

c: The Honorable David Martin, Mayor, City of Stamford
Ralph Blessing, Land Use Bureau Chief, City of Stamford
American Tower Corporation, Tower and Property Owner



STATE OF CONNECTICUT

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December 24, 2018

Luzmaria Guzman
Zoning and Permitting Specialist
SAC Wireless
540 West Madison, 17th Floor
Chicago, IL 60661

RE: **EM-SPRINT-135-181205** – Sprint notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Ms. Guzman:

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:

1. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
2. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by Sprint shall be removed within 60 days of the date the antenna ceased to function;
5. The validity of this action shall expire one year from the date of this letter; and
6. 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 4, 2018. 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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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.

Sincerely,



Melanie A. Bachman
Executive Director

MAB/FOC/enr

c: The Honorable David Martin, Mayor, City of Stamford
Ralph Blessing, Land Use Bureau Chief, City of Stamford
American Tower Corporation, Tower Owner



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL
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August 16, 2019

Craig A. Russo, P.E.
Engineer
T-Squared Site Services
2500 Highland Road, Suite 201
Hermitage, PA 16148

RE: **TS-SIGFOX-135-190705** – Sigfox NIP, LLC request for an order to approve tower sharing at an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mr. Russo:

At a public meeting held on August 16, 2019, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures with the following conditions:

1. Approval of any minor changes be delegated to Council staff;
2. Any deviation from the proposed installation as specified in the original tower share request and supporting materials with the Council shall render this decision invalid;
3. Any material changes to the proposed installation as specified in the original tower share request and supporting materials filed with the Council shall require an explicit request for modification to the Council pursuant to Connecticut General Statutes § 16-50aa, including 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;
4. Not less than 45 days after completion of the proposed installation, the Council shall be notified in writing that the installation has been completed;
5. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by Sigfox shall be removed within 60 days of the date the antenna ceased to function;
6. The validity of this action shall expire one year from the date of this letter; and
7. 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.

This decision is under the exclusive jurisdiction of the Council and applies only to this request for tower sharing dated July 1, 2019. This facility has 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. Any deviation from the approved tower sharing request is enforceable under the provisions of Connecticut General Statutes § 16-50b.



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VIA ELECTRONIC MAIL

August 31, 2020

Hollis M. Redding
SAI Communications, LLC
12 Industrial Way
Salem, NH 03079

RE: **EM-AT&T-135-200806** – AT&T notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Ms. Redding:

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:

1. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
2. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
5. The validity of this action shall expire one year from the date of this letter; and
6. 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 August 6, 2020. 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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut General Statutes § 22a-162. This

The proposed shared use is to be implemented as specified in your letter dated July 1, 2019, and additional information received August 13, 2019, including the placement of all necessary equipment and shelters within the tower compound.

Please be advised that the validity of this action shall expire one year from the date of this letter.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/IN/emr

c: The Honorable David Martin, Mayor, City of Stamford
Ralph Blessing, Land Use Bureau Chief, City of Stamford
American Tower Corporation, Tower and Property Owner

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.

Sincerely,

s/ Melanie A. Bachman

Melanie A. Bachman
Executive Director

MAB/IN/emr

c: The Honorable David Martin, Mayor, City of Stamford (mayorsoffice@stamfordct.gov)
Ralph Blessing, Land Use Bureau Chief, City of Stamford (stamfordlanduse@stamfordct.gov)



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VIA ELECTRONIC MAIL

June 14, 2021

Eric Breun
Transcend Wireless
10 Industrial Avenue, Suite 3
Mahwah, NJ 07430

RE: **EM-T-MOBILE-135-210513** - T-Mobile notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mr. Breun:

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:

1. Prior to T-Mobile's antenna installation, the antenna mount modifications shall be installed in accordance with the Mount Analysis prepared by CJS Engineering, PLLC, dated March 23, 2021 and stamped and signed by Tyler M. Barker;
2. Within 45 days following completion of equipment installation, T-Mobile shall provide documentation certified by a Professional Engineer that its installation complied with the recommendations of the Mount Analysis;
3. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
4. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
5. The Council shall be notified in writing at least two weeks prior to the commencement of site construction activities;
6. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
7. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by T-Mobile shall be removed within 60 days of the date the antenna ceased to function;
8. The validity of this action shall expire one year from the date of this letter; and
9. 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 May 12, 2021. The modifications are in compliance with the exception criteria in Section 16-50-72 (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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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 16-50p-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.

Sincerely,

s/ *Melanie A. Bachman*

Melanie A. Bachman
Executive Director

MAB/IN/cm^r

c: The Honorable David Martin, Mayor, City of Stamford (mayorsoffice@stamfordct.gov)



VIA ELECTRONIC MAIL

November 1, 2021

John Coleman
Project Manager
Centerline Communications LLC
750 W. Center Street, Suite 301
West Bridgewater, MA 02379
jcoleman@cllinel.com

RE: **EM-VER-135-210819** - Celco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mr. Coleman:

The Connecticut Siting Council (Council) hereby denies your request to modify the above-referenced existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

This exempt modification request was submitted to the Council on August 19, 2021. Council staff reviewed this request for completeness and had identified deficiencies that were more fully described in a notice of incompleteness dated September 28, 2021 and recommended that Centerline Communications provide a revised cover page with the correct information and provide proof of proper notice to the Chief Elected Official and underlying property owner for the facility on or before October 28, 2021. To date the Council has not received the requested information.

Thus, the proposed modification is not in compliance with the exemption criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies and is hereby denied.

Sincerely,

Michael

Melanie Bachman
Executive Director

MAB/CW/emr

c: The Honorable David Martin, Mayor, City of Stamford (mayorsoffice@stamfordct.gov)



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

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Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

February 15, 2022

John Coleman
Project Manager
Centerline Communications LLC
750 W. Center Street, Suite 301
West Bridgewater, MA 02379
jcoleman@clinele.com

RE: **EM-VER-135-220120** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mr. Coleman:

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:

1. Prior to Verizon's antenna installation, antenna mount modifications shall be installed in accordance with the Mount Analysis prepared by Maser Consulting, dated June 11, 2021 and stamped and signed by Derek Hartzell;
2. Within 45 days following completion of equipment installation, Verizon shall provide documentation certified by a Professional Engineer that its installation complied with the recommendations of the Mount Analysis;
3. Any deviation from the proposed modification as specified in this notice and supporting materials submitted to the Council shall render this acknowledgement invalid;
4. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
5. The Council shall be notified in writing at least two weeks prior to the commencement of site construction activities;
6. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
7. Deployment of any 5G services must comply with FCC and FAA guidance relative to air navigation, as applicable;
8. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by Verizon shall be removed within 60 days of the date the antenna ceased to function;

EM-VER-135-220120
February 15, 2022
Page 2

9. The validity of this action shall expire one year from the date of this letter; and

10. 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 January 18, 2022. 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 by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut 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.

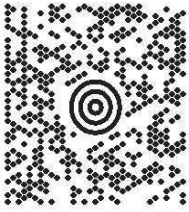
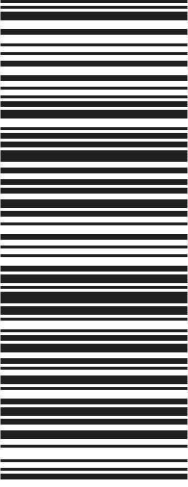
This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies 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.

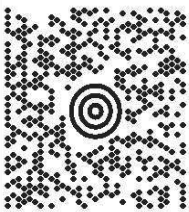
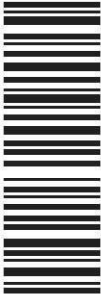
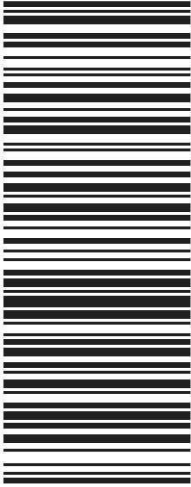
Sincerely,

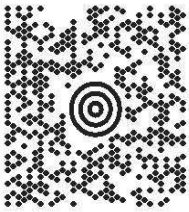
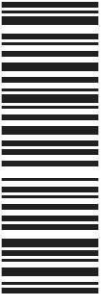
Melanie A. Bachman
Executive Director
MAB/CMW/emr

c: The Honorable Caroline Simmons, Mayor, City of Stamford (mayorsoffice@stamfordct.gov)

EXHIBIT 7

JENNILLE SMITH CENTERLINE COMMUNICATIONS 23 BROADVIEW EST BRISTOL VT 05443		1.0 LBS LTR	1 OF 1
SHIP TO: LAND MANAGEMENT 7814287250 AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN MA 01801-1053			
		MA 018 9-04 	
UPS NEXT DAY AIR SAVER 1P TRACKING #: 1Z 9Y4 503 13 0091 4703			
			
BILLING: P/P			
Reference # 1: STAMFORD CS 22.0.18. WNTNV50 13.0A 03/2022*  TM			

JENNILLE SMITH CENTERLINE COMMUNICATIONS 23 BROADVIEW EST BRISTOL VT 05443		1.0 LBS LTR	1 OF 1
SHIP TO: CHAIR DAVID STEIN ZONING BOARD 888 WASHINGTON BLVD. 7TH FLOOR STAMFORD CT 06901-2924			
		CT 069 9-01 	
UPS NEXT DAY AIR SAVER 1P TRACKING #: 1Z 9Y4 503 13 1540 2729			
			
BILLING: P/P			
Reference # 1: STAMFORD		 TM	
CS 22.0.18.		WNTNV50 13.0A 03/2022*	

JENNILLE SMITH CENTERLINE COMMUNICATIONS 23 BROADVIEW EST BRISTOL VT 05443		1.0 LBS LTR	1 OF 1
SHIP TO: MAYOR CAROLINE SIMMONS OFFICE OF THE MAYOR 888 WASHINGTON BLVD, 10TH FLOOR STAMFORD CT 06901-2924			
		CT 069 9-01 	
UPS NEXT DAY AIR SAVER 1P TRACKING #: 1Z 9Y4 503 13 1594 9738			
			
BILLING: P/P			
Reference # 1: STAMFORD		 TM	
CS 22.0.18.		WNTNV50 13.0A 03/2022*	