



January 30, 2017

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

Regarding: Notice of Exempt Modification – Antenna & RRU Swap
Property Address: 401 Wakelee Ave., Ansonia CT 06401
AT&T Site: CT2091

Dear Ms. Bachman:

AT&T currently maintains a wireless telecommunications facility on an existing 196 foot self-support tower at the above-referenced address, latitude 41.3560750, longitude -73.0920269. Said self-support is owned by American Tower Corporation. The existing equipment shelter is 12' by 20', totaling 240 square feet.

AT&T desires to modify its existing telecommunications facility by swapping six diplexers with triplexers. The centerline height of said antennas is and will remain at 167 feet. Antennas are mounted utilizing a sector frame.

Please accept this application 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 is being sent to The Honorable David S. Cassetti, Mayor of the City of Ansonia, as well as to the Zoning Enforcement Officer David Blackwell, Sr. A copy of this letter is also being sent to the tower owner American Tower Corporation. The landowner is the City of Ansonia.

The planned modifications to AT&T's facility fall squarely within those activities explicitly provided for in R.C.S.A. §16-50j-72 (b)(2). Specifically:

1. The planned modification will not result in an increase in the height of the existing structure. The antennas to be swapped will be installed at the existing height of 167 feet on the 196 foot self-support tower.
2. The proposed modifications will not involve any changes to ground-mounted equipment, and therefore will not require an extension of the site boundary.
3. The proposed modification will not increase the noise level at the facility by six decibel or more, or to levels that exceed state and local criteria.

4. The operation of the modified facility will not increase radio frequency (RF) emissions at the facility to a level at or above Federal Communications Commission (FCC) safety standard. An RF emissions calculation (attached) for AT&T's modified facility is herein provided.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The self-support tower and its foundation can support AT&T's proposed modifications (please see attached structural analysis completed by American Tower dated January 12, 2017).

For the foregoing reasons, AT&T respectfully requests that the proposed diplexer swap be allowed within the exempt modifications under R.C.S.A. §16-50j-72 (b)(2).

Sincerely,

Sarah Snell

Sarah Snell
Site Acquisition Specialist

cc: The Honorable David S. Cassetti, Mayor of the City of Ansonia (municipality /
landowner)
Zoning Enforcement Officer David Blackwell, Sr.
American Tower Corporation (tower owner)



City of Ansonia, CT

Property Listing Report

Map Block Lot

01900030000

Account

65440

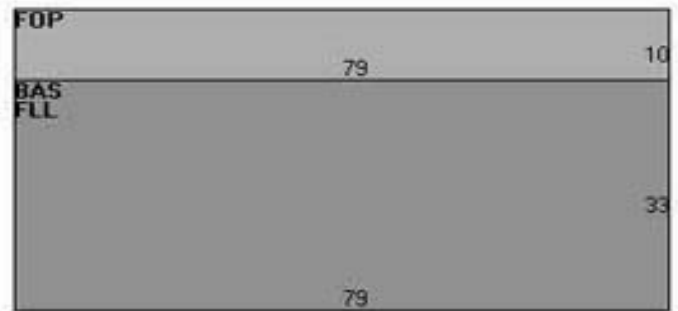
Property Information

Property Location	401 WAKELEE AVE
Owner	CITY OF ANSONIA
Co-Owner	HILLSIDE HOME & NOLAN FIE
Mailing Address	401 WAKELEE AVE ANSONIA CT 06401
Land Use	901 MUNICIPAL MDL-94
Land Class	E
Zoning Code	A
Census Tract	
Sub Lot	
Neighborhood	
Acreage	16.5
Utilities	All Public
Lot Setting/Desc	Bus. District Level
Survey Map	
Additional Info	

Photo



Sketch



Primary Construction Details

Year Built	2001
Stories	1
Building Style	Health Club
Building Use	Comm/Ind
Building Condition	Average +20
Floors	Ceram Clay Til
Total Rooms	

Bedrooms	
Full Bathrooms	0
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	Gable
Roof Cover	Asphalt Shingl

Exterior Walls	Brick/Masonry
Interior Walls	Minim/Masonry
Heating Type	Forced Air-Duc
Heating Fuel	Gas
AC Type	None
Gross Bldg Area	6004
Total Living Area	4693



City of Ansonia, CT

Property Listing Report

Map Block Lot

01900030000

Account

65440

Valuation Summary (Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	536300	375400
Extras	58700	41100
Outbuildings	162300	113800
Land	967500	677300
Total	1724800	1207600

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Finished Lower Level	2607	2086
First Floor	2607	2607
Porch, Open	790	0
Total Area	6004	4693

Outbuilding and Extra Items

Type	Description
Shed	120.00 S.F.
Shed	120.00 S.F.
Shed	180.00 S.F.
Shed	180.00 S.F.
Fin Rsd Bsmt	2607.00 S.F.
Fence 6 Ft	240.00 L.F.
Fence 7 Ft.	1310.00 L.F.
Fence 8 Ft	230.00 L.F.
Fence 10 Ft	1280.00 L.F.
Tennis Court	3.00 UNITS

Sales History

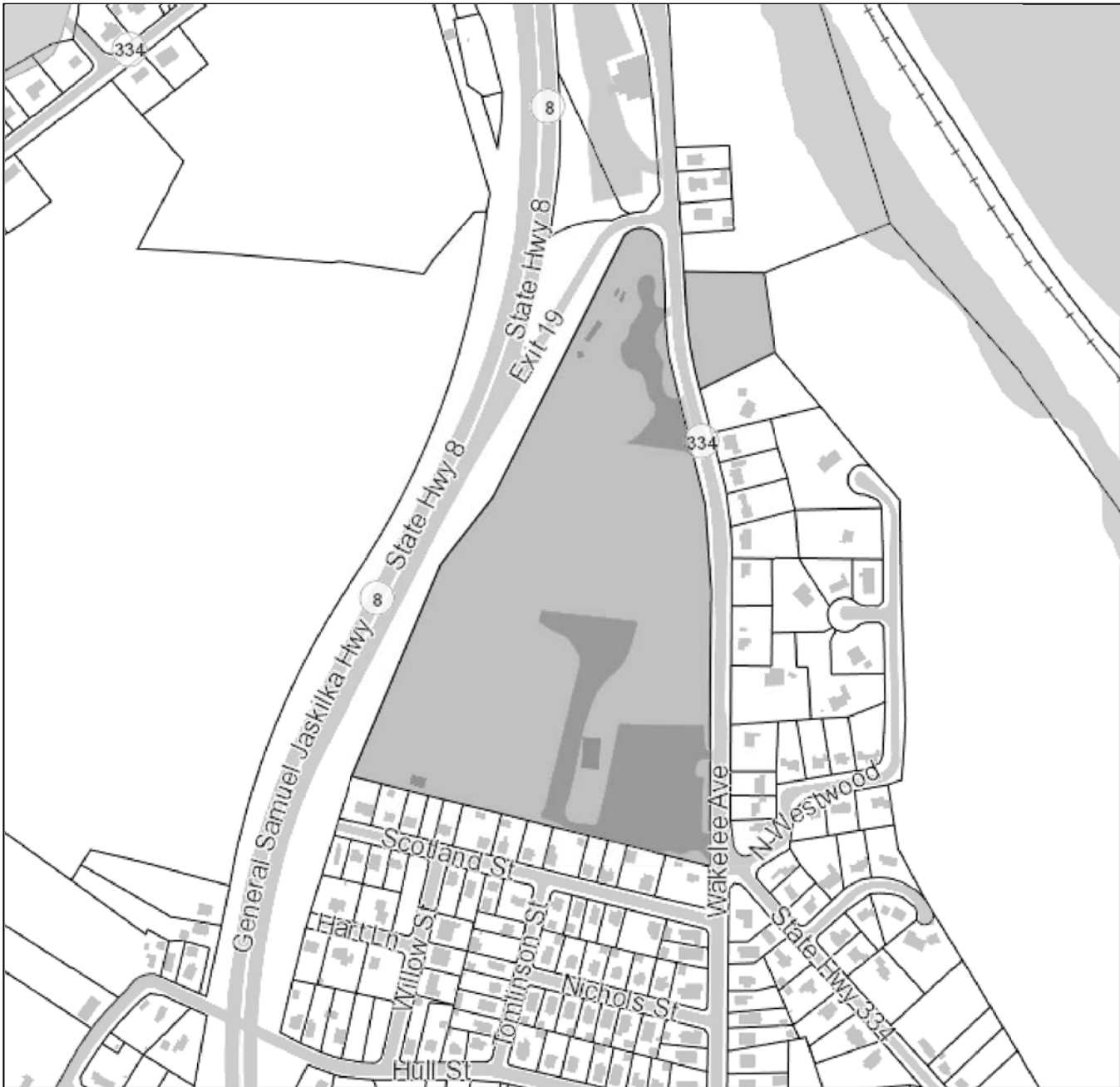
Owner of Record	Book/ Page	Sale Date	Sale Price
CITY OF ANSONIA	5/ 525	1/1/1900	0

City of Ansonia

Geographic Information System (GIS)

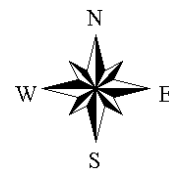


Date Printed: 11/7/2016



MAP DISCLAIMER - NOTICE OF LIABILITY

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



PROJECT INFORMATION

SCOPE OF WORK:

- AT&T ANTENNAS: ONE ANTENNA PER SECTOR TO BE REPLACED WITH ONE (1) NEW LTE ANTENNA PER SECTOR FOR (3) SECTORS, FOR A TOTAL OF (3) NEW LTE ANTENNAS; (2) EXISTING ANTENNAS TO REMAIN (2 PER SECTOR).
- AT&T RRUS: ONE (1) EXISTING RRU TO BE REPLACED PER SECTOR WITH ONE (1) NEW RRUS PER SECTOR FOR (3) SECTORS, FOR A TOTAL OF (3) NEW RRUS; (2) EXISTING RRU PER SECTOR TO REMAIN, FOR A TOTAL OF (6) EXISTING RRUS.

SITE ADDRESS: 401 WAKELEE AVENUE
ANSONIA, CT 06401

LATITUDE: 41.3560750 41° 21' 21.87"N
LONGITUDE: -73.0920269 73° 5' 31.29684"W

USID: 44824

TOWER OWNER: AMERICAN TOWER
116 HUNTINGTON AVENUE, 11TH FLOOR
BOSTON, MA 02116

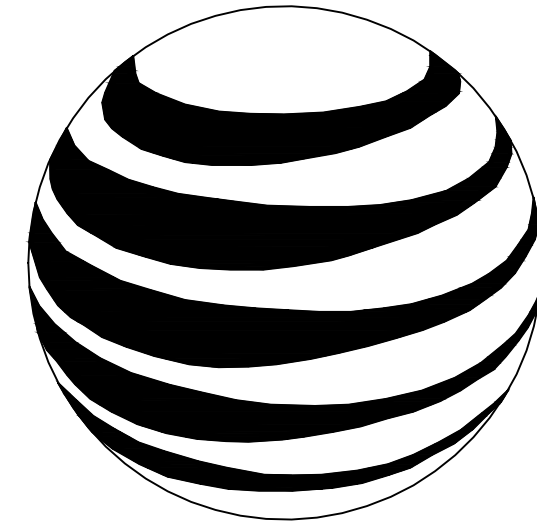
TYPE OF SITE: SELF SUPPORTING TOWER/INDOOR EQUIPMENT

TOWER HEIGHT: 196'-0"± (ABOVE BASE PLATE)

RAD CENTER: 167'-0"± (ABOVE BASE PLATE)

CURRENT USE: UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY

PROPOSED USE: UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY



at&t
MOBILITY

FA CODE: 10035308
SITE NUMBER: CT2091
SITE NAME: ANSONIA
NW_SPECTRASITE TOWER
PROJECT: LTE MULTI CARRIER

PROJECT TEAM

CLIENT REPRESENTATIVE

COMPANY: EMPIRE TELECOM
ADDRESS: 16 ESQUIRE ROAD
BILLERICA, MA 01821
CONTACT: DAVID COOPER
PHONE: 617-639-4908
EMAIL: dcooper@empiretelecomm.com

RF ENGINEER:

COMPANY: AT&T MOBILITY – NEW ENGLAND
ADDRESS: 550 COCHITUATE ROAD
SUITE 550 13 & 14
FRAMINGHAM, MA 01701
CONTACT: CAMERON SYME
PHONE: 508-596-7146
EMAIL: cs6970@att.com

SITE ACQUISITION:

COMPANY: VERTICAL DEVELOPMENT, LLC
ADDRESS: 20 COMMERCIAL STREET
BRANFORD, CT 06405
CONTACT: DAVID BASS
PHONE: 203-826-5857
EMAIL: dbass@verticaldevelopmentllc.com

CONSTRUCTION MANAGEMENT:

COMPANY: EMPIRE TELECOM
ADDRESS: 16 ESQUIRE ROAD
BILLERICA, MA 01821
CONTACT: GRZEGORZ "GREG" DORMAN
PHONE: 484-683-1750
EMAIL: gdorman@empiretelecomm.com

ZONING:

COMPANY: VERTICAL DEVELOPMENT, LLC
ADDRESS: 20 COMMERCIAL STREET
BRANFORD, CT 06405
CONTACT: DAVID BASS
PHONE: 203-826-5857
EMAIL: dbass@verticaldevelopmentllc.com

ENGINEERING:

COMPANY: COM-EX CONSULTANTS, LLC
ADDRESS: 115 ROUTE 46
SUITE E39
MOUNTAIN LAKES, NJ 07046
CONTACT: NICHOLAS D. BARILE, P.E.
PHONE: 862-209-4300
EMAIL: nbarile@comexconsultants.com

DRAWING INDEX

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VICINITY MAP

DEPART 500 ENTERPRISE DR, ROCKY HILL, CT 06067: ON ENTERPRISE DR (EAST). TURN LEFT (NORTH-WEST) ONTO CAPITOL BLVD [CAPITAL BLVD]. BEAR RIGHT (NORTH) ONTO CAPITOL BLVD, THEN IMMEDIATELY TURN LEFT (WEST) ONTO WEST ST. TAKE RAMP (LEFT) ONTO I-91 AT EXIT 17, TURN RIGHT ONTO RAMP. TAKE RAMP (LEFT) ONTO SR-15 [WILBUR CROSS PKWY] AT EXIT 58, TAKE RAMP (RIGHT) ONTO SR-34 [DERBY AVE]. TAKE RAMP (RIGHT) ONTO SR-8 [GENERAL SAMUEL JESKILKA HWY]. AT EXIT 19, TURN RIGHT ONTO RAMP, TURN RIGHT (SOUTH) ONTO SR-334 [WAKELEE AVE]. KEEP STRAIGHT TO STAY ON SR-334 [WAKELEE AVE]. TURN RIGHT (WEST) ONTO LOCAL ROAD(S) ARRIVE AT SITE.



GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY, AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN, ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR SITE MODIFICATIONS.

DISCIPLINE:	NAME:	DATE:
SITE ACQUISITION:		
CONSTRUCTION MANAGER:		
AT&T PROJECT MANAGER:		



CONNECTICUT LAW REQUIRES TWO WORKING DAYS NOTICE PRIOR TO ANY EARTH MOVING ACTIVITIES BY CALLING 800-922-4455 OR DIAL 811



SITE NUMBER: CT2091
SITE NAME: ANSONIA
NW_SPECTRASITE TOWER
401 WAKELEE AVENUE
ANSONIA, CT 06401
NEW HAVEN COUNTY



NO.	DATE	REVISIONS	BY	CHK	APP'D
0	01/19/17	ISSUED AS FINAL	NJM	NDB	NDB
SCALE: AS SHOWN		DESIGNED BY: NJM	DRAWN BY: NJM		

AT&T		
DRAWING TITLE:		
TITLE SHEET		
JOB NUMBER	DRAWING NUMBER	REV
16061-EMP	T-1	0

GROUNDING NOTES:

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. TESTS SHALL BE PERFORMED IN ACCORDANCE WITH 25471-000-3PS-EG00-0001, DESIGN & TESTING OF FACILITY GROUNDING FOR CELL SITES.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
13. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA 222. FOR TOWERS BEING BUILT TO REV-G OF THE STANDARD, THE WIRE SIZE OF THE BURIED GROUND RING AND CONNECTIONS BETWEEN THE TOWER AND THE BURIED GROUND RING SHALL BE CHANGED FROM 2 AWG TO 2/0 AWG. IN ADDITION, THE MINIMUM LENGTH OF THE GROUND RODS SHALL BE INCREASED FROM EIGHT FEET (8') TO TEN FEET (10').
14. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE 1/2" OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID TINNED COPPER GROUND WIRE, PER NEC 250.50.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR - EMPIRE TELECOM
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER - AT&T MOBILITY
 OEM - ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR (EMPIRE TELECOM).
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
8. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR. ROUTING OF TRENCHING SHALL BE APPROVED BY CONTRACTOR
9. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
10. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OFF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
11. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
12. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
13. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS UNLESS OTHERWISE SPECIFIED. ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
14. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy=36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH UP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
15. CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 25741-000-3APS-A00Z-00002, "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."
16. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
17. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK MAY NEED TO BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
18. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

19. SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
 - CONNECTICUT BUILDING CODE: 2016 WITH LOCAL & COUNTY AMENDMENTS
 - NATIONAL ELECTRICAL CODE: NEC 2011 WITH LOCAL & COUNTY AMENDMENTS
 - FIRE/LIFE SAFETY CODE: NFPA-101 2009 WITH LOCAL & COUNTY AMENDMENTS
20. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION
 - AMERICAN SOCIETY OF TESTING OF MATERIALS, ASTM
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (ANSI/TIA-222-G-1), STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES:
 - TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
 - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, OSHA
 - INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVELY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT
 - TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS
21. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.
22. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA AND SUBMIT TO THE ENGINEER ANY DISCREPANCIES FROM THE DRAWINGS.

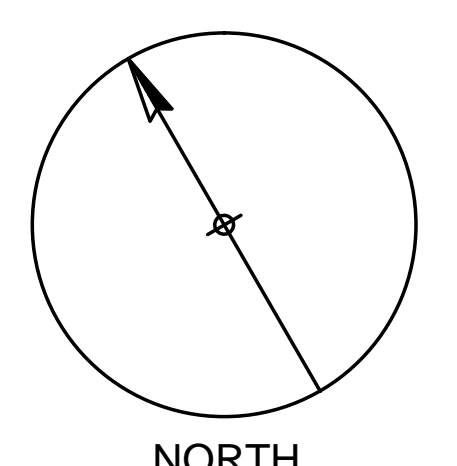
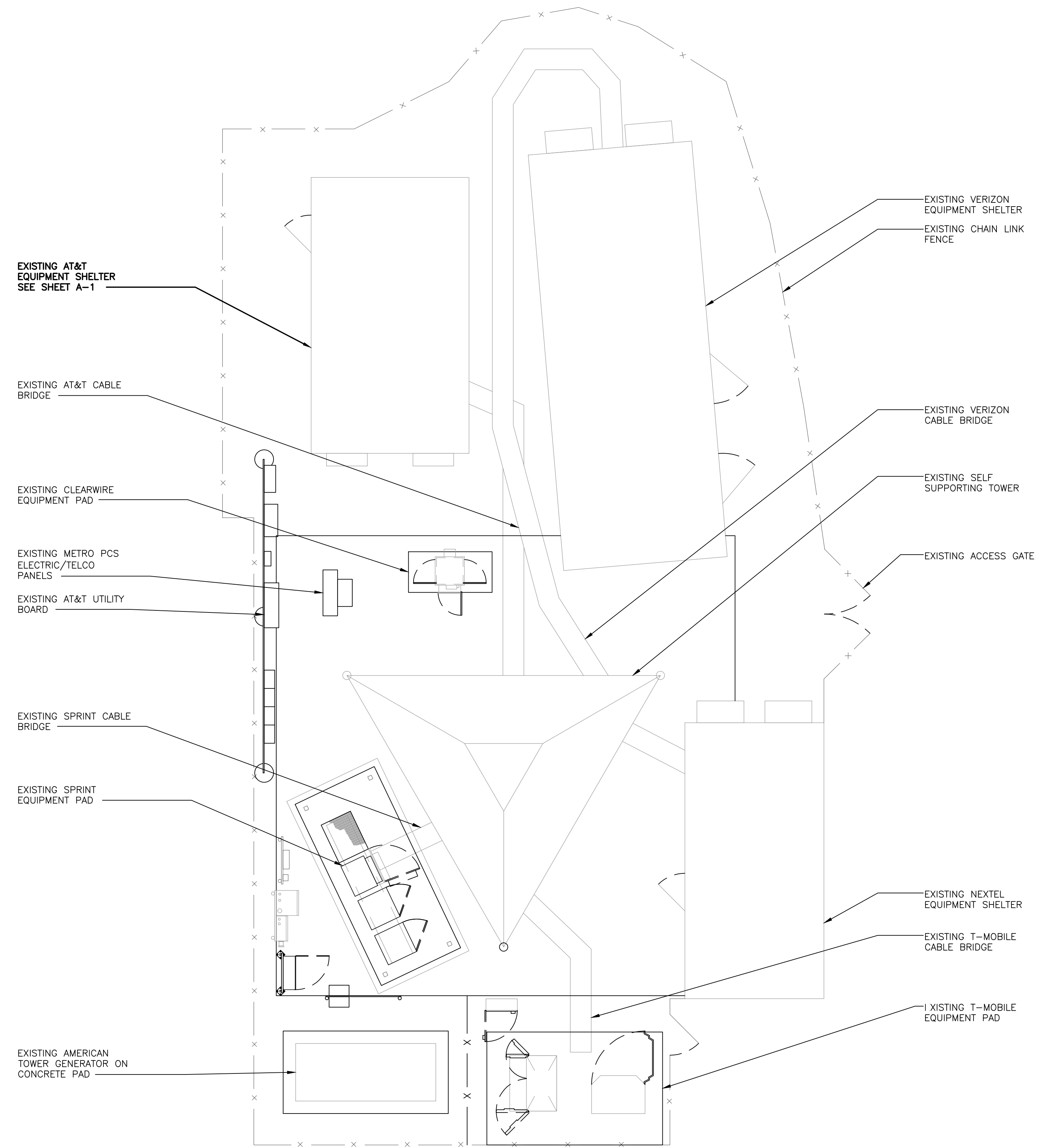


SITE NUMBER: CT2091
SITE NAME: ANSONIA
NW_SPECTRASITE TOWER
 401 WAKELEE AVENUE
 ANSONIA, CT 06401
 NEW HAVEN COUNTY



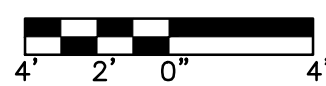
0	01/19/17	ISSUED AS FINAL	NJM	NDB	NDB
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: NJM	DRAWN BY: NJM		

SEAL:		
AT&T		
DRAWING TITLE: GROUNDING & GENERAL NOTES		
JOB NUMBER	DRAWING NUMBER	REV
16061-EMP	GN-1	0



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

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



NOTE:
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA AND SUBMIT TO THE ENGINEER ANY DISCREPANCIES FROM THE DRAWINGS.

COM-EX
Consultants
115 ROUTE 46
SUITE E39
MOUNTAIN LAKES, NJ 07046
PHONE: 862.209.4300
FAX: 862.209.4301

EMPIRE
telecom
16 ESQUIRE ROAD
BILLERICA, MA 01821

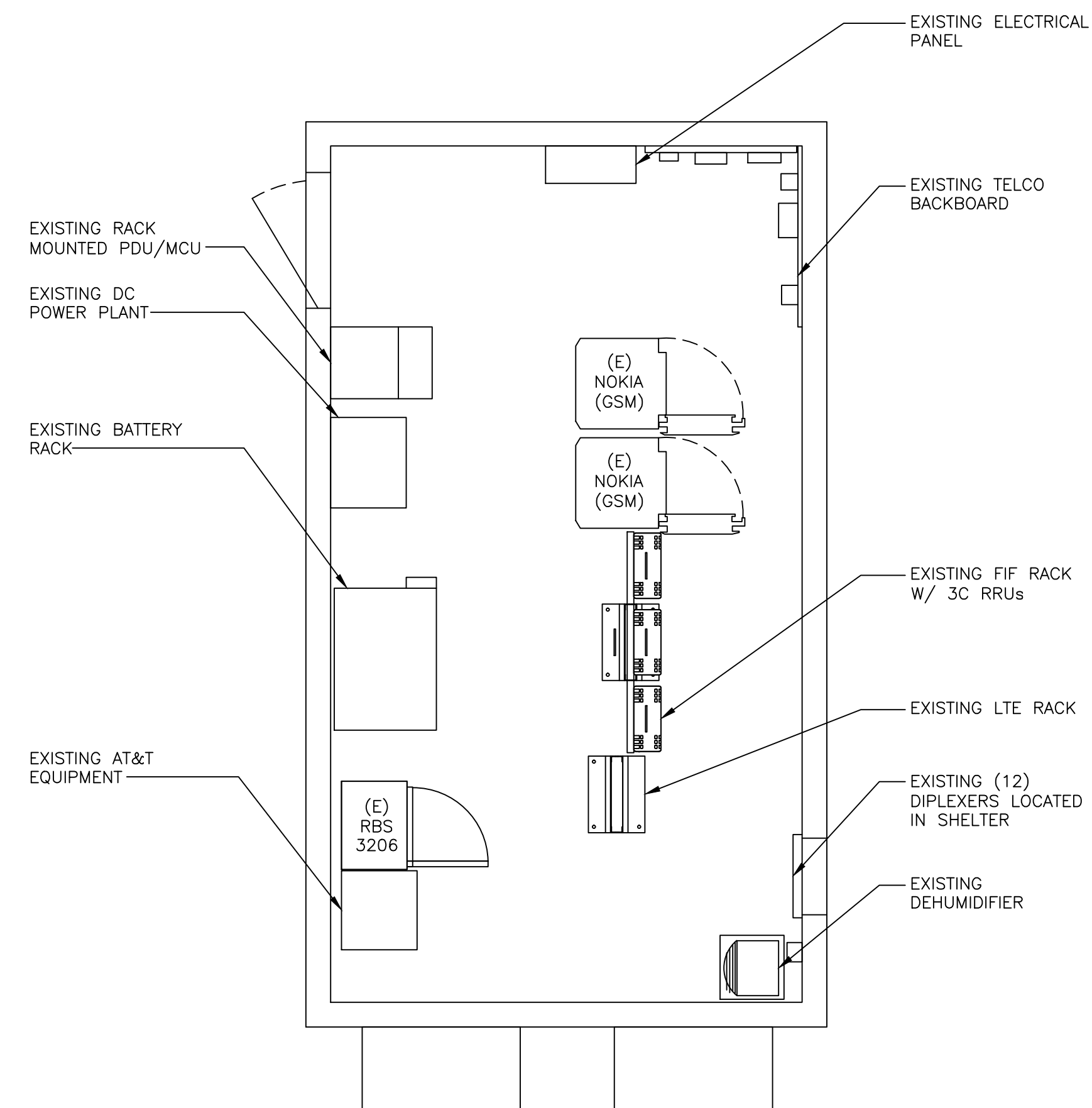
SITE NUMBER: CT2091
SITE NAME: ANSONIA
NW_SPECTRASITE TOWER
401 WAKELEE AVENUE
ANSONIA, CT 06401
NEW HAVEN COUNTY

at&t
MOBILITY
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

0	01/19/17	ISSUED AS FINAL	NJM	NDB	NDB
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: NJM	DRAWN BY: NJM		

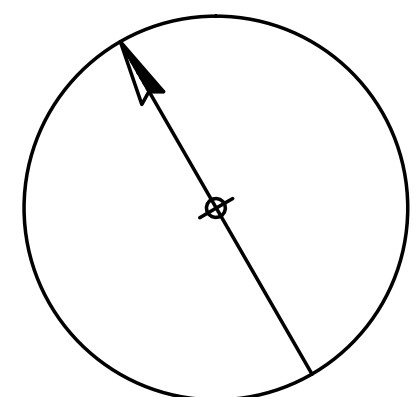
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AT&T		
DRAWING TITLE: COMPOUND LAYOUT		
JOB NUMBER 16061-EMP	DRAWING NUMBER A-1	REV 0

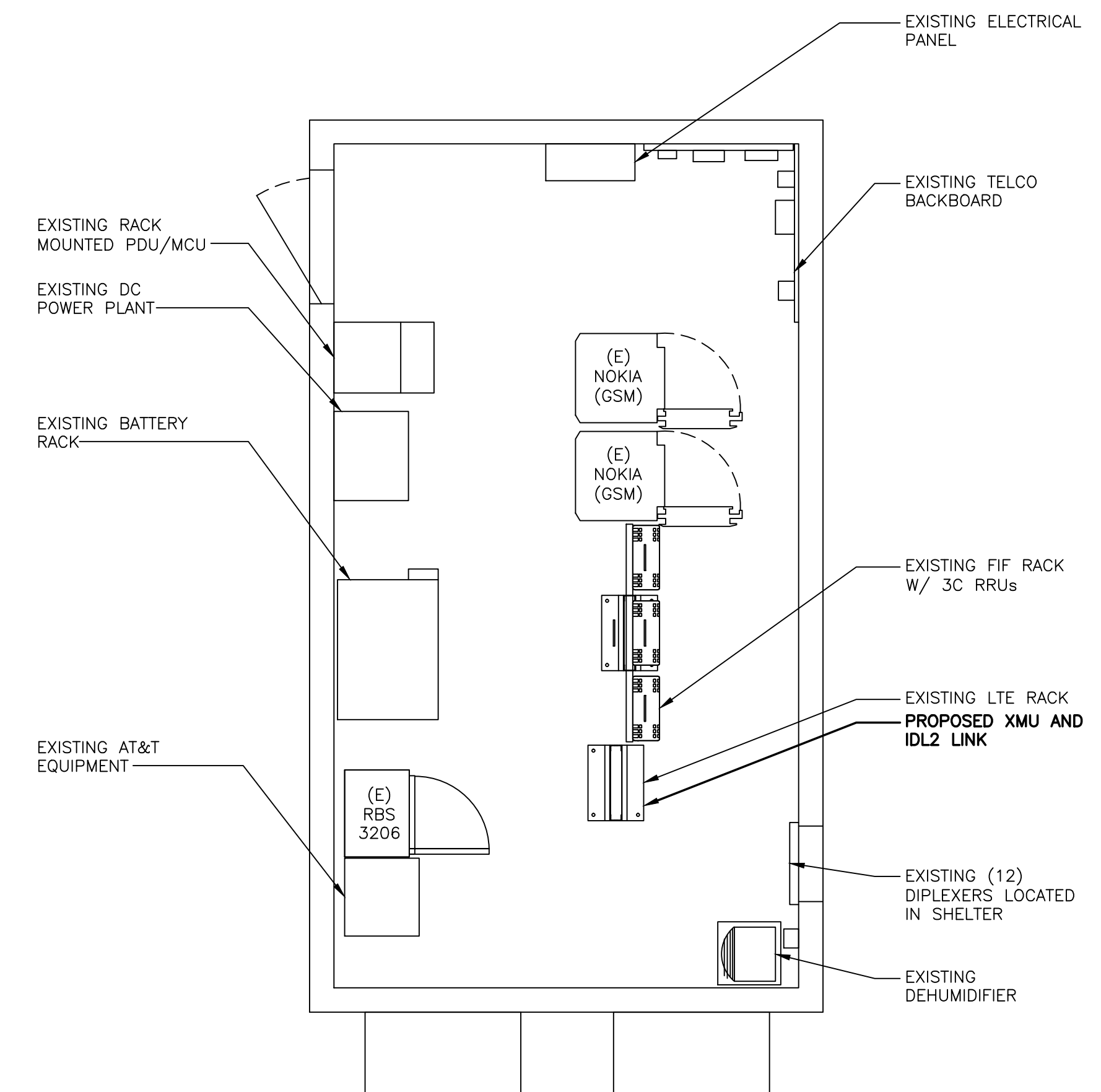


EXISTING EQUIPMENT LAYOUT

SCALE: 3/8" = 2'-0"
 22"x34" SCALE: 3/8" = 1'-0"
 11"x17" SCALE: 3/16" = 1'-0"

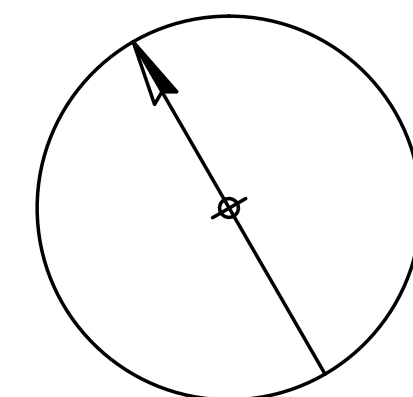


NORTH



PROPOSED EQUIPMENT LAYOUT

SCALE: 3/8" = 2'-0"
 22"x34" SCALE: 3/8" = 1'-0"
 11"x17" SCALE: 3/16" = 1'-0"



NORTH

COM-EX
 Consultants
 115 ROUTE 46
 SUITE E39
 MOUNTAIN LAKES, NJ 07046
 PHONE: 862.209.4300
 FAX: 862.209.4301

EMPIRE
 telecom
 16 ESQUIRE ROAD
 BILLERICA, MA 01821

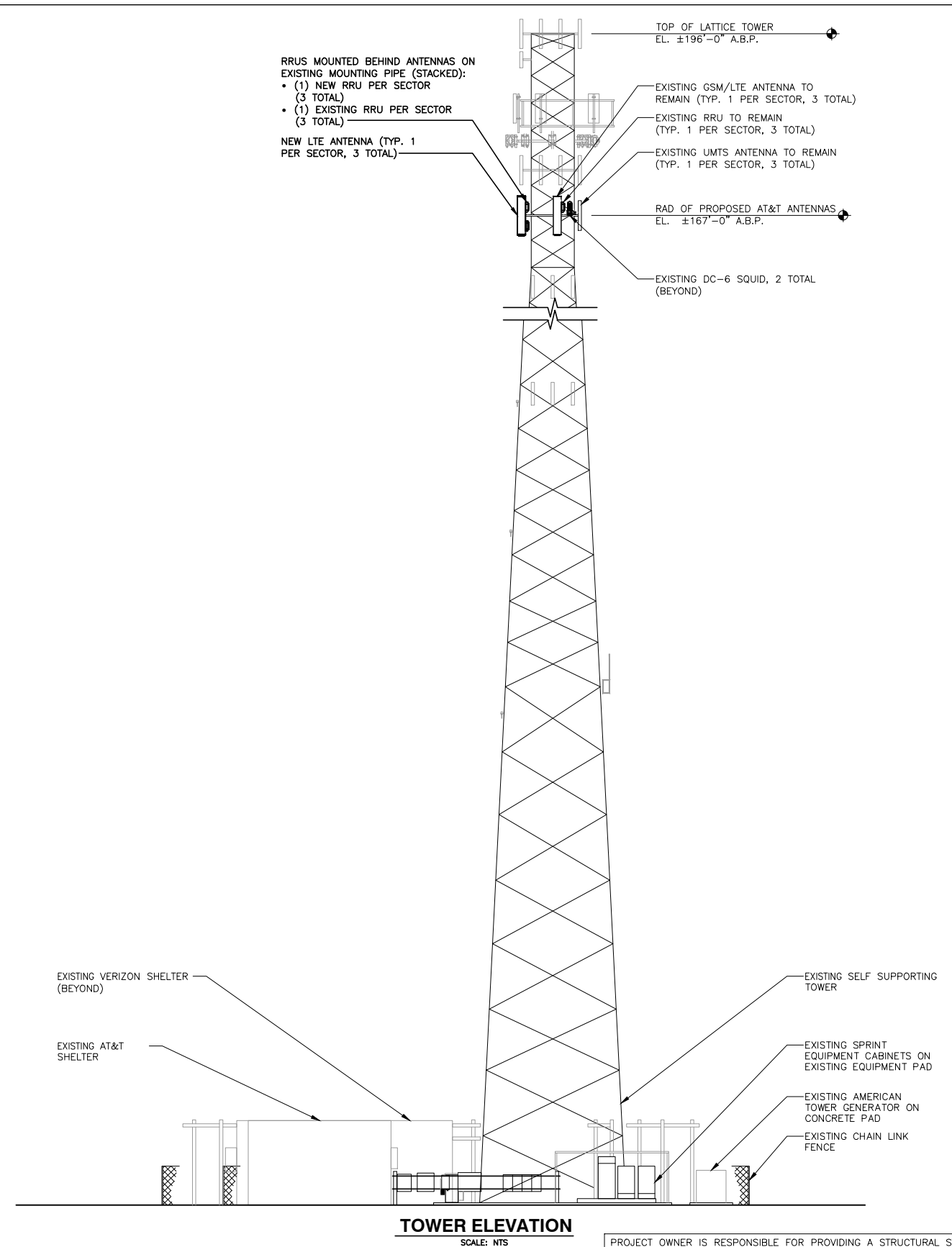
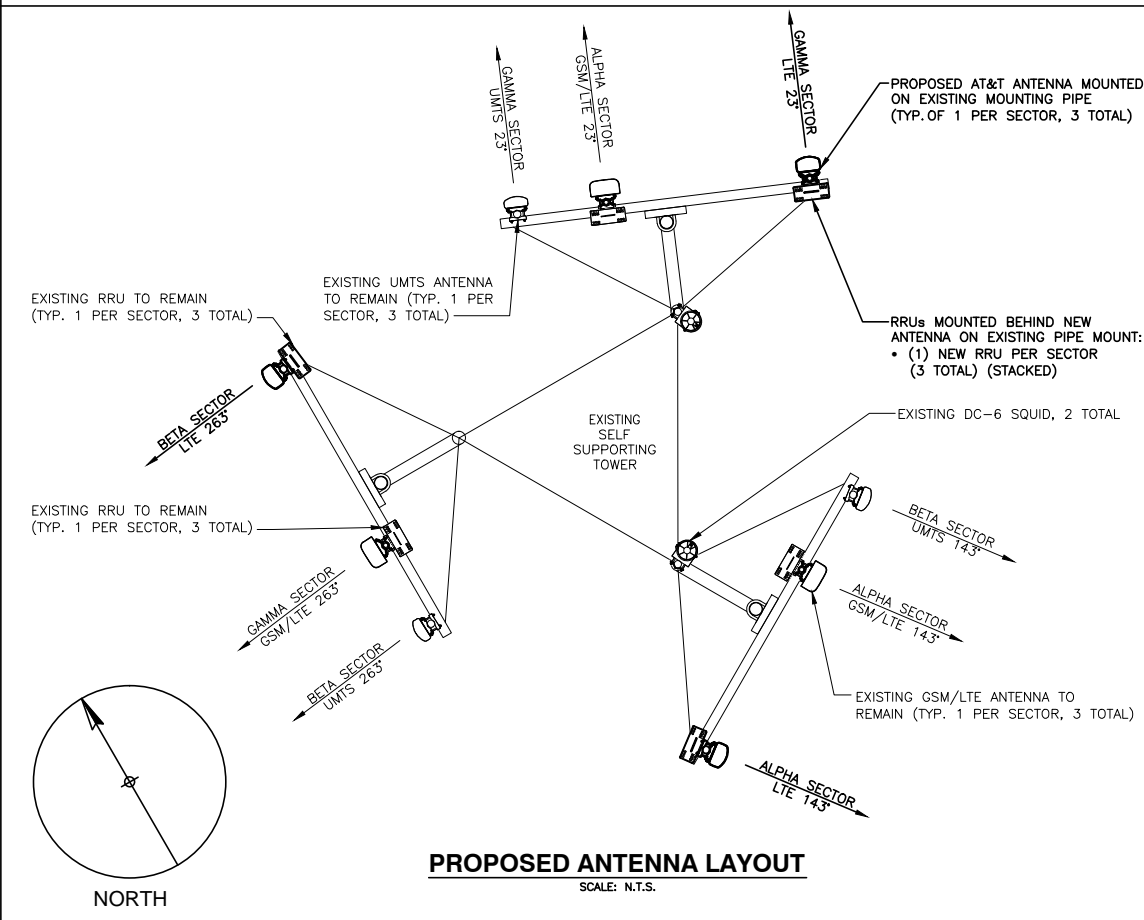
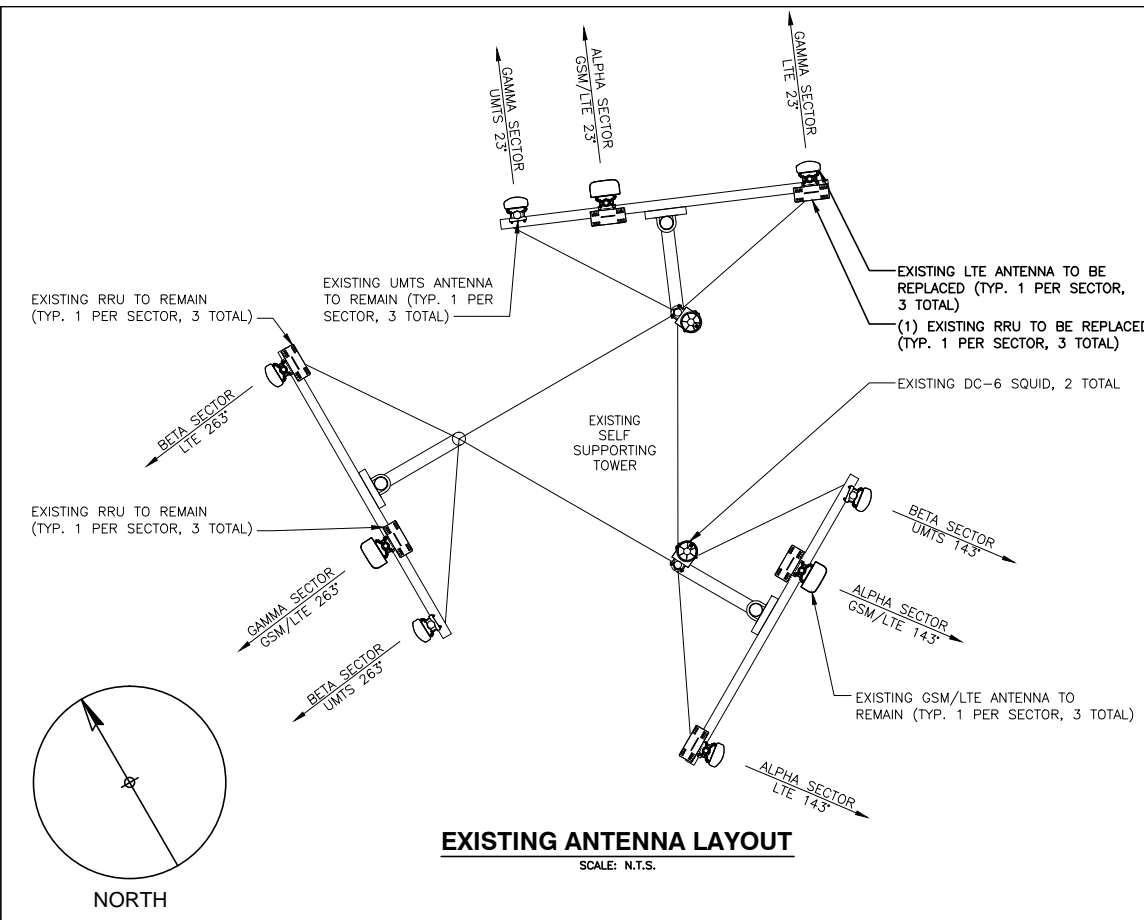
SITE NUMBER: CT2091
SITE NAME: ANSONIA
NW SPECTRASITE TOWER
 401 WAKELEE AVENUE
 ANSONIA, CT 06401
 NEW HAVEN COUNTY

 **at&t**
 MOBILITY
 550 COCHITUATE ROAD
 FRAMINGHAM, MA 01701

0	01/19/17	ISSUED AS FINAL	NJM	NDB	NDB
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: NJM	DRAWN BY: NJM		

SEAL:

AT&T		
DRAWING TITLE: EQUIPMENT LAYOUTS		
JOB NUMBER 16061-EMP	DRAWING NUMBER A-2	REV 0



PROJECT OWNER IS RESPONSIBLE FOR PROVIDING A STRUCTURAL STABILITY ANALYSIS TO DETERMINE THE CAPACITY AND SUITABILITY OF THE EXISTING ANTENNA SUPPORT STRUCTURE TO SAFELY CARRY ALL ADDITIONAL LOADS IMPOSED BY THE PROPOSED EQUIPMENT AS SHOWN HEREIN. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCORPORATING ANY REQUIRED STRUCTURAL MODIFICATIONS INTO THEIR SCOPE OF WORK.

COM-EX
Consultants
115 ROUTE 46
SUITE E39
MOUNTAIN LAKES, NJ 07046
PHONE: 862.209.4300
FAX: 862.209.4301

EMPIRE
telecom
16 ESQUIRE ROAD
BILLERICA, MA 01821

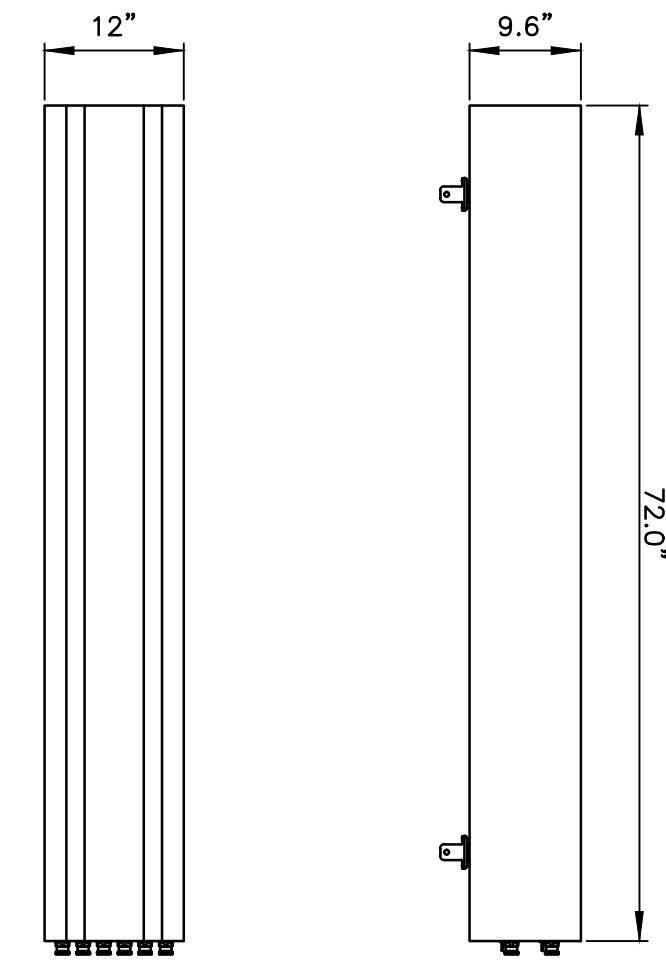
SITE NUMBER: CT2091
SITE NAME: ANSONIA
NW_SPECTRASITE TOWER
401 WAKELEE AVENUE
ANSONIA, CT 06401
NEW HAVEN COUNTY

at&t
MOBILITY
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
0	01/19/17	ISSUED AS FINAL	NJM	NDB	NDB
SCALE: AS SHOWN		DESIGNED BY: NJM	DRAWN BY: NJM		

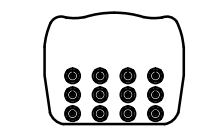
SEAL:

AT&T		
DRAWING TITLE:		
ANTENNA LAYOUTS & ELEVATION		
JOB NUMBER	DRAWING NUMBER	REV
16061-EMP	A-3	0



FRONT VIEW

SIDE VIEW

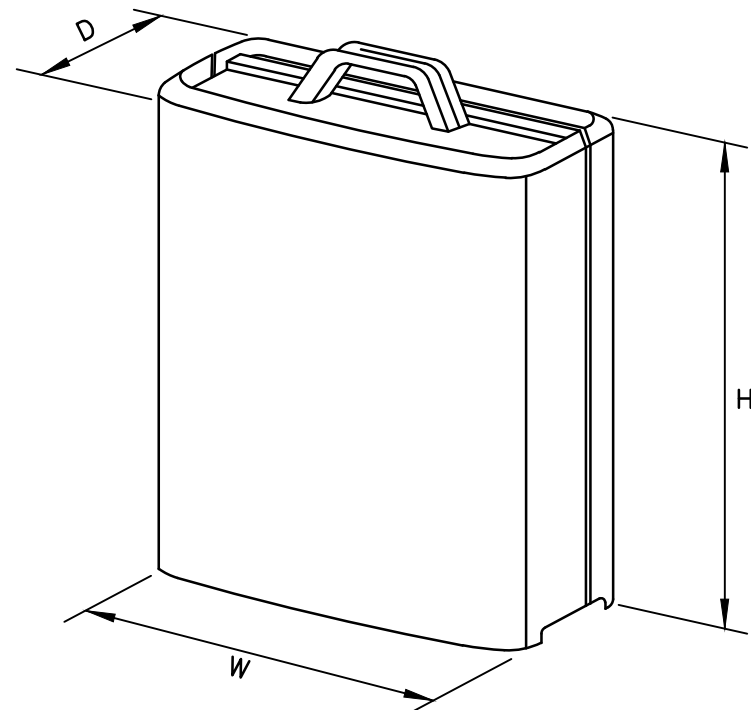


BOTTOM VIEW

MANUFACTURER	QUINTEL
MODEL	QS66512-2
WEIGHT	111 LBS

LTE ANTENNA DETAIL

SCALE: N.T.S.

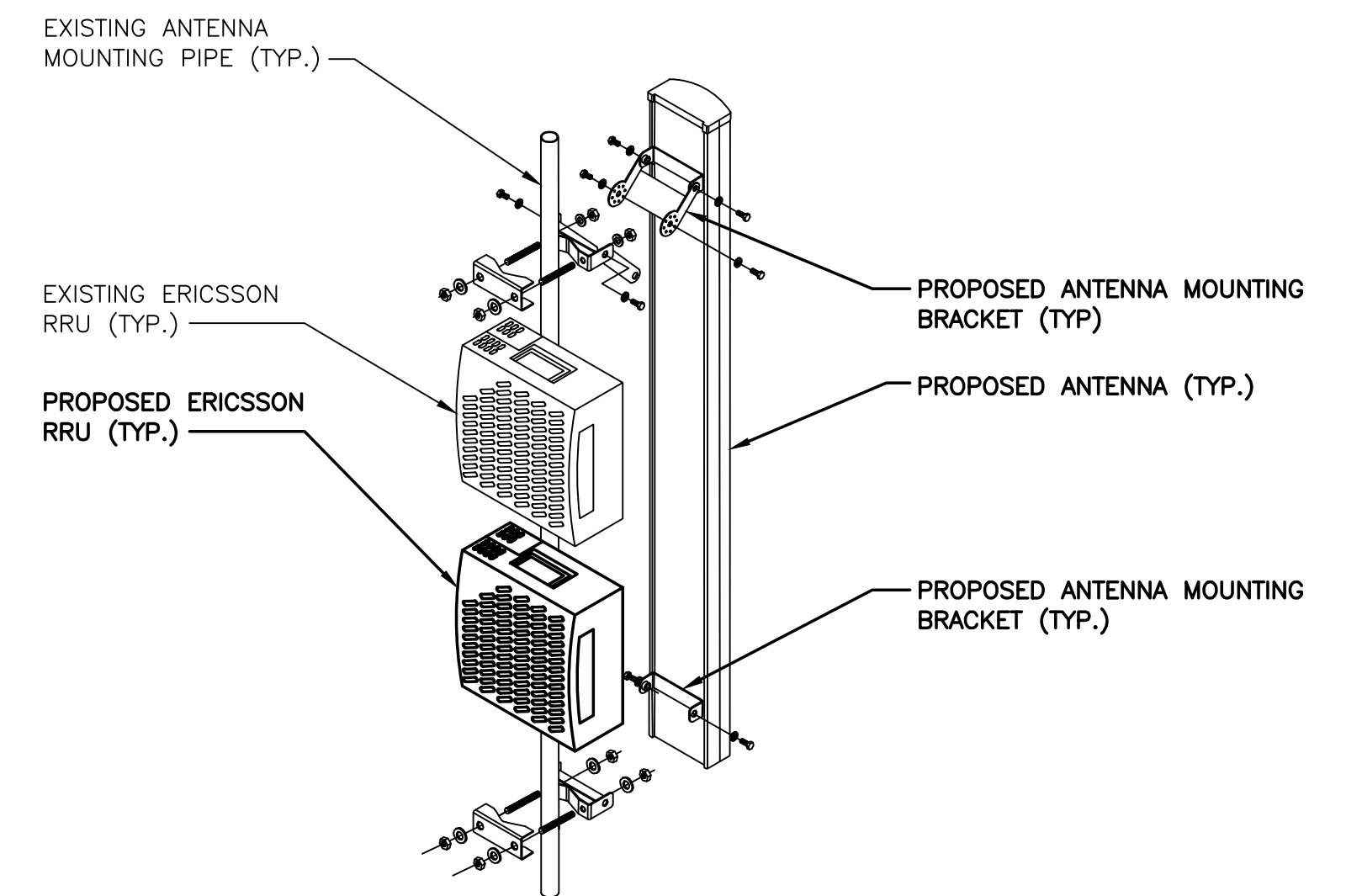


MODEL	L x W x H	WEIGHT
*RRUS-11	19.69" x 16.97" x 7.17"	50.7 LBS
*RRUS-32	29.9" x 13.3" x 9.5"	77 LBS
RRUS-32 B2	27.2" x 12.1" x 7"	60 LBS

*DENOTES EXISTING

RRUS DETAIL

SCALE: N.T.S.



ANTENNA AND RRU MOUNTING DETAIL

SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE

SECTOR	POSITION	MAKE	MODEL	SIZE (INCHES)
ALPHA	A1	POWERWAVE	7770.00	55"x11"x5"
	A2	CCI	OPA-65R-LCUU-H6	72"x14.8"x7.4"
	A3	-	-	-
	A4	KMW	AM-X-CD-16-65-00T-RET	72"x11.8"x5.9"
BETA	B1	POWERWAVE	7770.00	55"x11"x5"
	B2	CCI	OPA-65R-LCUU-H8	92.7"x14.4"x7"
	B3	-	-	-
	B4	POWERWAVE	P65-17-XLH-RR	96"x12"x6"
GAMMA	G1	POWERWAVE	7770.00	55"x11"x5"
	G2	CCI	OPA-65R-LCUU-H6	72"x14.8"x7.4"
	G3	-	-	-
	G4	KMW	AM-X-CD-16-65-00T-RET	72"x11.8"x5.9"

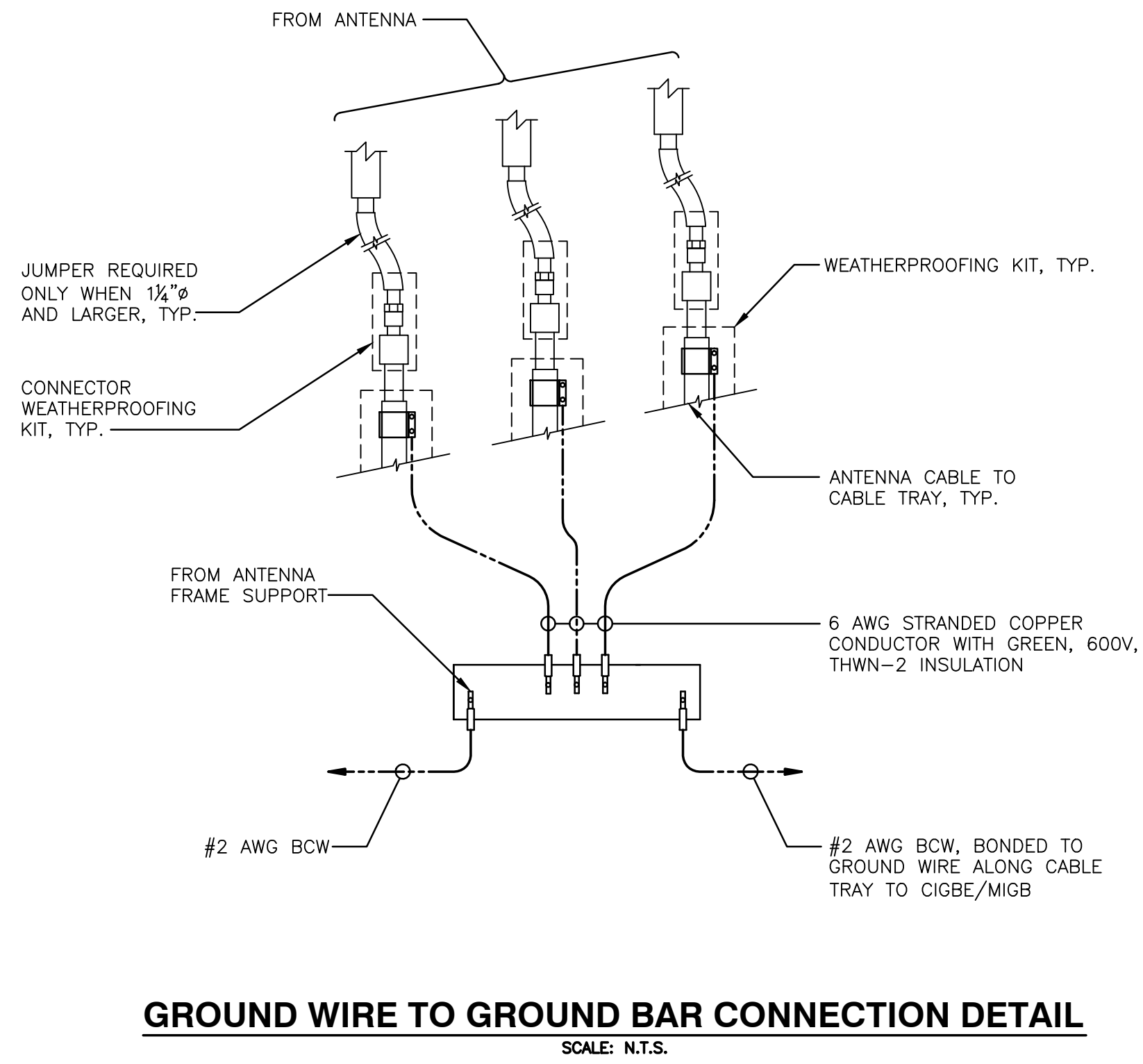
FINAL ANTENNA SCHEDULE

SECTOR	POSITION	MAKE	MODEL	SIZE (INCHES)
ALPHA	A1	POWERWAVE	7770.00	55"x11"x5"
	A2	CCI	OPA-65R-LCUU-H6	72"x14.8"x7.4"
	A3	-	-	-
	A4	QUINTEL	QS66512-2	72"x12"x9.6"
BETA	B1	POWERWAVE	7770.00	55"x11"x5"
	B2	CCI	OPA-65R-LCUU-H8	92.7"x14.4"x7"
	B3	-	-	-
	B4	QUINTEL	QS66512-2	72"x12"x9.6"
GAMMA	G1	POWERWAVE	7770.00	55"x11"x5"
	G2	CCI	OPA-65R-LCUU-H6	72"x14.8"x7.4"
	G3	-	-	-
	G4	QUINTEL	QS66512-2	72"x12"x9.6"

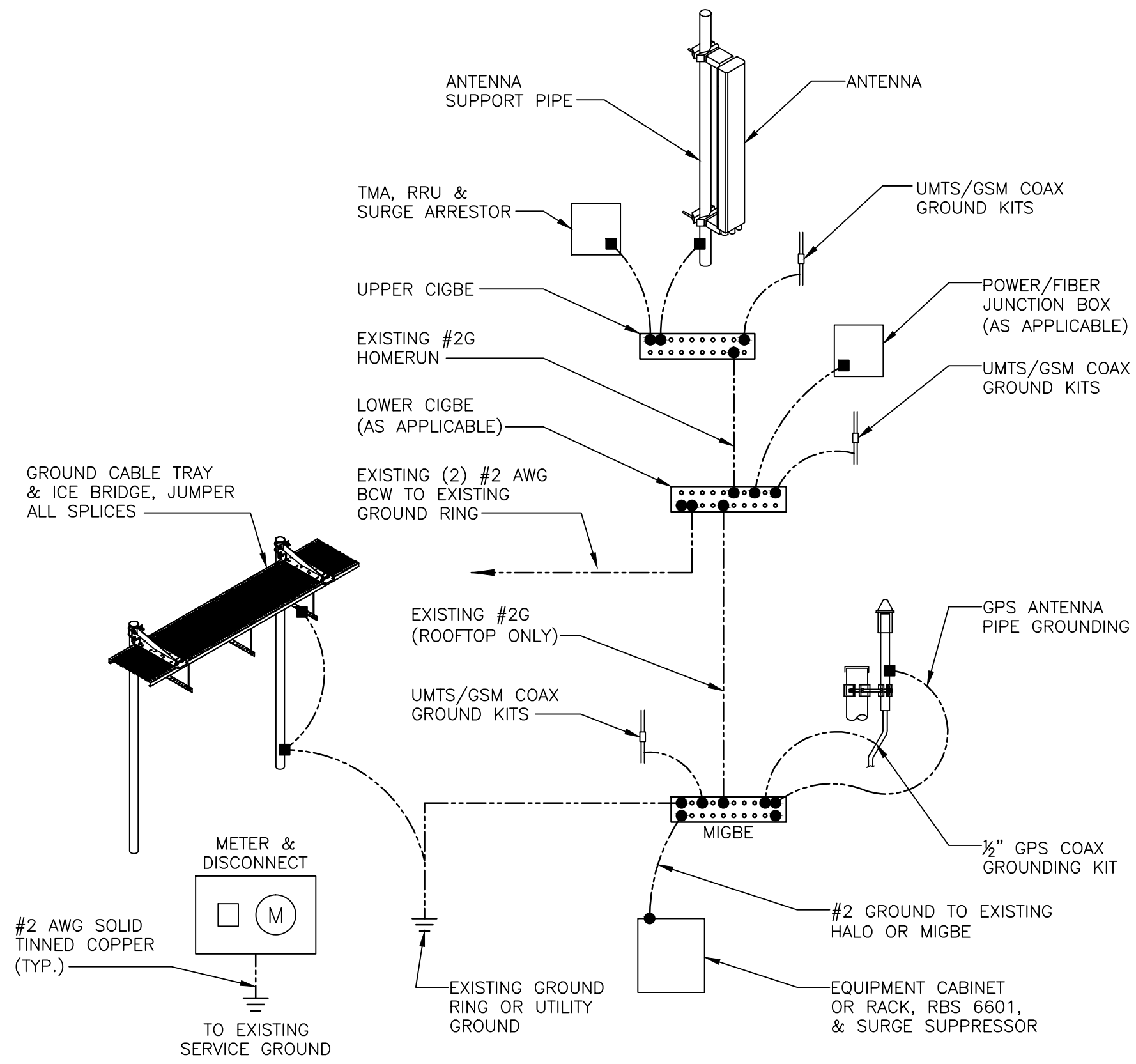
PROPOSED RRH SCHEDULE

SECTOR	MAKE	MODEL	SIZE (INCHES)	ADDITIONAL COMPONENT	SIZE (INCHES)
ALPHA	ERICSSON	RRUS-32	29.9"x13.3"x9.5"		
	ERICSSON	RRUS-11	19.7"x16.9"x7.2"		
	ERICSSON	RRUS-32 B2	29.9"x13.3"x9.5"		
BETA	ERICSSON	RRUS-32	29.9"x13.3"x9.5"		
	ERICSSON	RRUS-11	19.7"x16.9"x7.2"		
	ERICSSON	RRUS-32 B2	29.9"x13.3"x9.5"		
GAMMA	ERICSSON	RRUS-32	29.9"x13.3"x9.5"		
	ERICSSON	RRUS-11	19.7"x16.9"x7.2"		
	ERICSSON	RRUS-32 B2	29.9"x13.3"x9.5"		

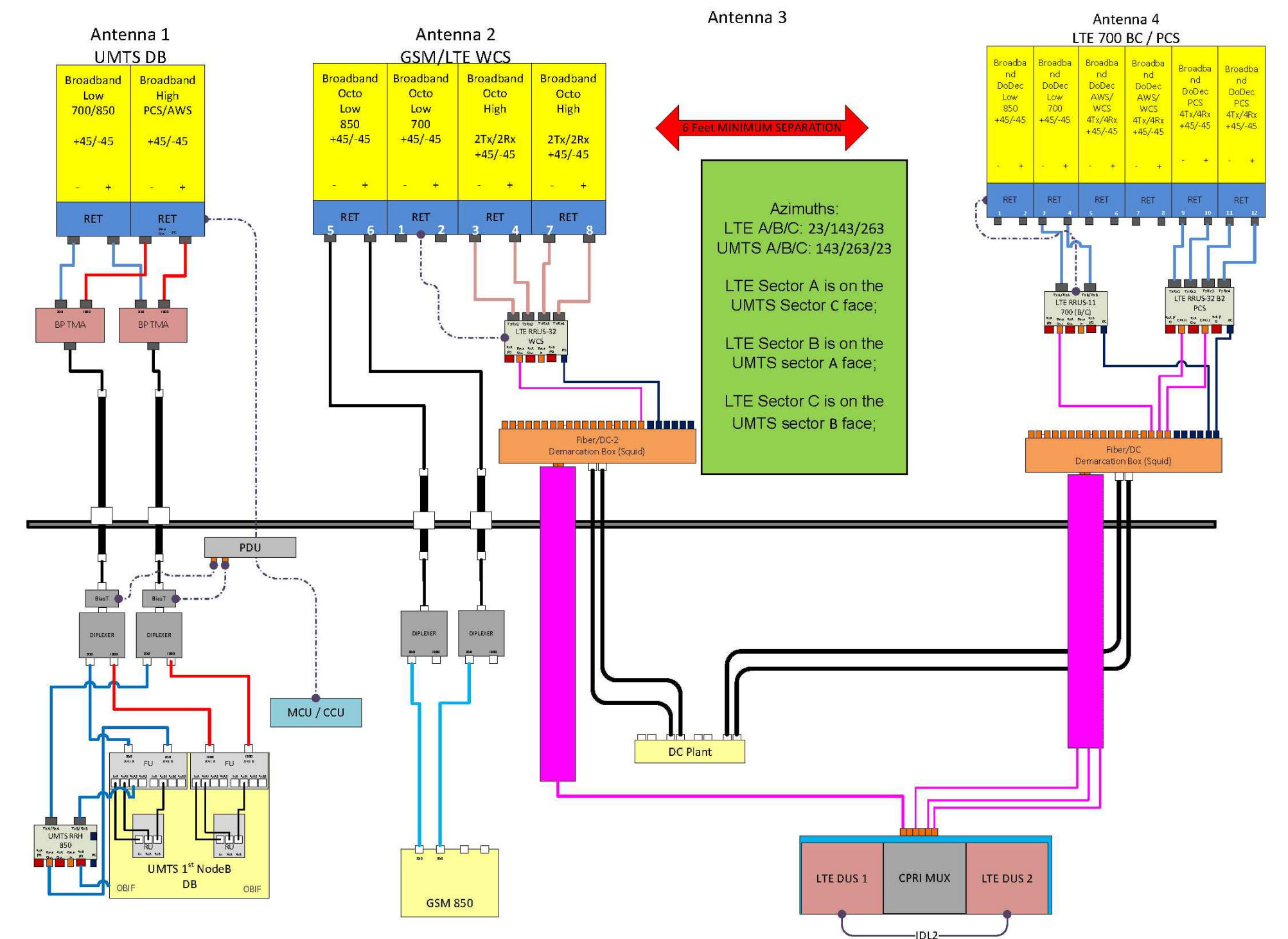
PROJECT OWNER IS RESPONSIBLE FOR PROVIDING A STRUCTURAL STABILITY ANALYSIS TO DETERMINE THE CAPACITY AND SUITABILITY OF THE EXISTING ANTENNA SUPPORT STRUCTURE TO SAFELY CARRY ALL ADDITIONAL LOADS IMPOSED BY THE PROPOSED EQUIPMENT AS SHOWN HEREIN. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCORPORATING ANY REQUIRED STRUCTURAL MODIFICATIONS INTO THEIR SCOPE OF WORK.



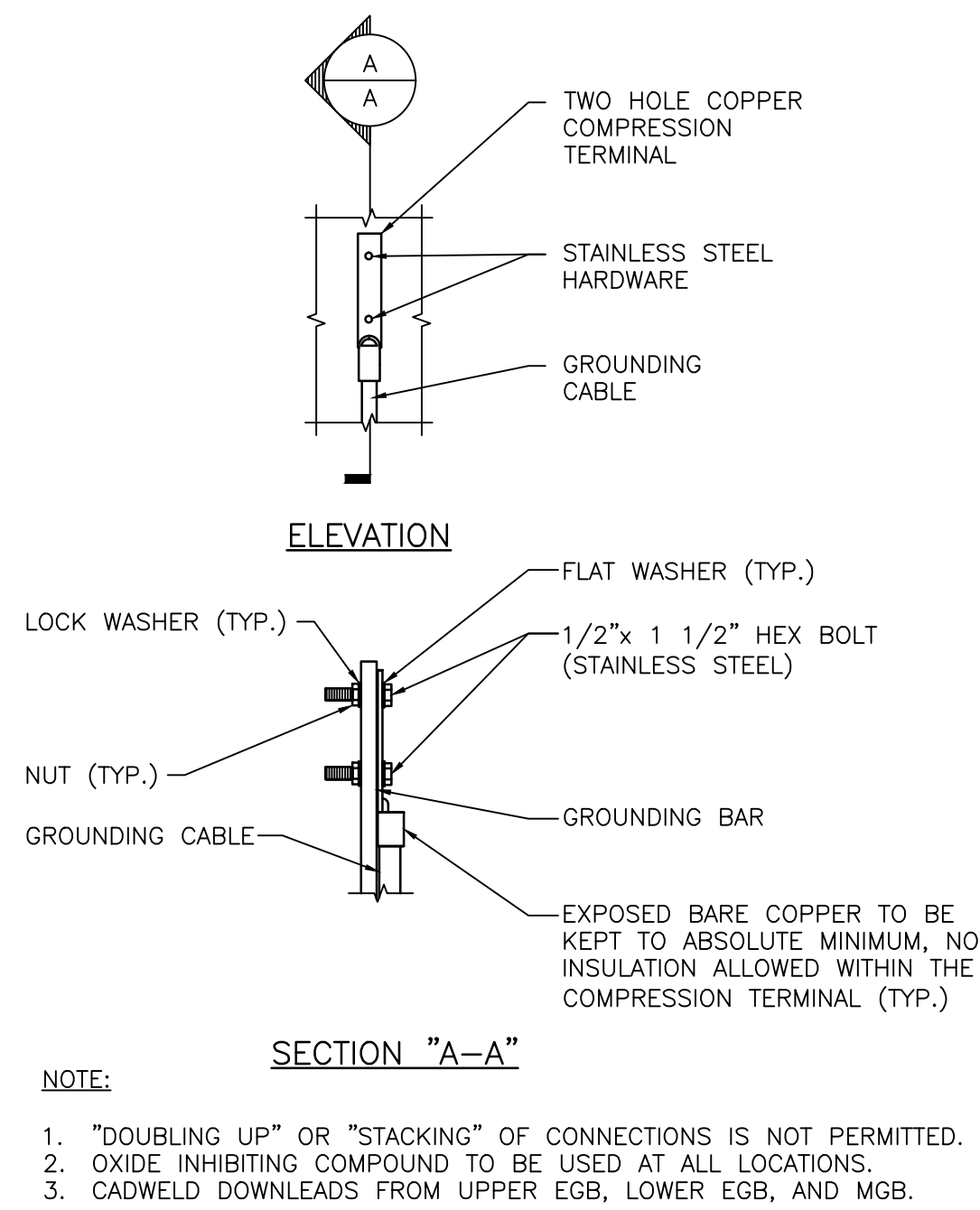
GROUND WIRE TO GROUND BAR CONNECTION DETAIL
SCALE: N.T.S.



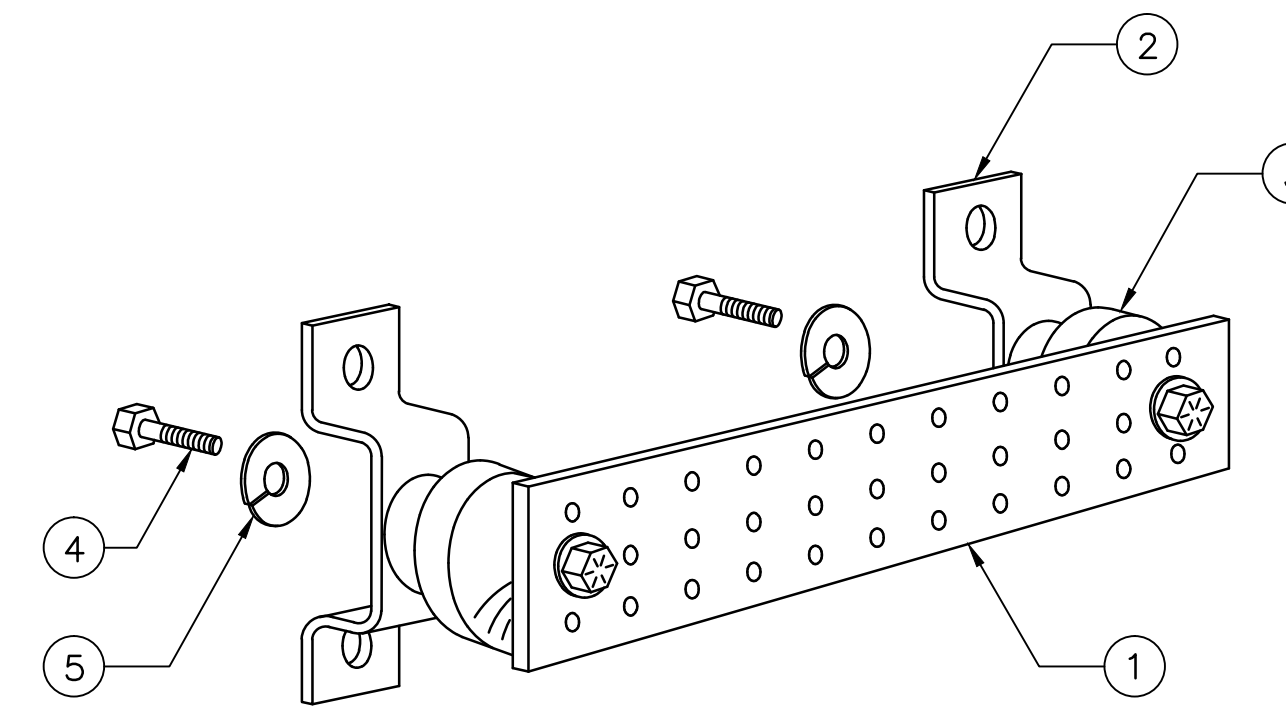
GROUNDING RISER DIAGRAM
SCALE: N.T.S.



TYPICAL PLUMBING DIAGRAM (PER SECTOR)
SCALE: N.T.S.



TYPICAL GROUND BAR CONNECTION DETAIL
SCALE: N.T.S.



ITEM NO.	QTY.	DESCRIPTION
1	1	SOLID GROUND BAR (20"x 4"x 1/4")
2	2	WALL MOUNTING BRACKET
3	2	INSULATORS
4	4	5/8"-11x1" H.H.C.S.
5	4	5/8" LOCK WASHER

- NOTES:
- EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION
- SECTION "P" - SURGE PRODUCERS**
- CABLE ENTRY PORTS (HATCH PLATES) (#2)
 - GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
 - TELCO GROUND BAR
 - COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
 - +24V POWER SUPPLY RETURN BAR (#2)
 - 48V POWER SUPPLY RETURN BAR (#2)
 - RECTIFIER FRAMES
- SECTION "A" - SURGE ABSORBERS**
- INTERIOR GROUND RING (#2)
 - EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
 - METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
 - BUILDING STEEL (IF AVAILABLE) (#2)

GROUND BAR DETAIL
SCALE: N.T.S.

0	01/19/17	ISSUED AS FINAL	NJM	NDB	NDB
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: NJM	DRAWN BY: NJM		

SEAL:		
AT&T		
DRAWING TITLE: GROUNDING, ONE-LINE DIAGRAM & DETAILS		
JOB NUMBER 16061-EMP	DRAWING NUMBER G-1	REV 0



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 196 ft Self Supported Tower
ATC Site Name : Ansonia Wakelee, CT
ATC Site Number : 302470
Engineering Number : OAA690439_C3_02
Proposed Carrier : AT&T Mobility
Carrier Site Name : Ansonia
Carrier Site Number : CT2091
Site Location : 401 Wakelee Ave
Ansonia, CT 06401-1226
41.356069,-73.092000
County : New Haven
Date : January 12, 2017
Max Usage : 86%
Result : Pass

Prepared By:
Theodore A. Deters, E.I.
Structural Engineer I

Reviewed By:

Theodore A. Deters

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
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Deflection, Twist, and Sway.....	4
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Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 196 ft self supported tower to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	Rohn Drawing #A991899, dated July 7, 1999
Foundation Drawing	Rohn Drawing #A992523-1, dated September 22, 1999
Geotechnical Report	Tectonic Engineering Consultants W.O. #1170.C754, dated May 20, 1999

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	97 mph (3-Second Gust, V_{asd}) / 125 mph (3-Second Gust, V_{ult})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	1
Spectral Response:	$S_s = 0.19, S_1 = 0.06$
Site Class:	D - Stiff Soil

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

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
194.0	194.0	3	Argus LLPX310R	Sector Frames	(10) 1 1/4" Coax (6) 1 5/8" Coax (6) 5/16" Coax (2) 2" Conduit (2) 1/2" Coax	Clearwire
		2	DragonWave A-ANT-18G-2-C			
		3	NextNet BTS-2500			
		2	DragonWave Horizon Compact			
		2	EMS RR90-11-00DBL			Sprint Nextel
		6	Decibel DB844H90E-XY			
		3	KMW AM-X-WM-17-65-00T			
		3	KMW TTA (HB-X-WM-17-65-00T)			
191.0	191.0	3	RRU	Leg	-	Sprint Nextel
		3	Alcatel-Lucent 1900MHz 4x45 RRH			
		3	Alcatel-Lucent 800MHz RRH			
187.0	187.0	2	Powerwave P40-16-XLPP-RRR	Sector Frames	(6) 7/8" Coax (4) 1 1/4" Hybriflex	
		1	RFS APXVSP18-C-A20			
		6	Andrew DB980H90E-M			
184.0	184.0	1	18" x 12" Junction Box	Leg	-	Clearwire
177.0	177.0	6	Andrew SBNHH-1D65B	Sector Frames	(12) 1 5/8" Coax (2) 1 5/8" Hybriflex	Verizon
		1	Powerwave P65-16-XL-2			
		1	Antel BXA-70063-6BF-EDIN-X			
		1	Swedcom SLCP 2x6014			
		3	Antel BXA-80080/4CF			
		2	RFS DB-T1-6Z-8AB-0Z			
		3	Alcatel-Lucent B66 RRH4x45			
		3	Alcatel-Lucent PCS B25 RRH2x60/4x30			
3	Alcatel-Lucent B13 RRH4x30-4R 700U					
167.0	167.0	3	Ericsson RRUS-32	Sector Frames	(12) 1 1/4" Coax (4) 0.78" 8 AWG 6 (2) 0.39" Fiber Trunk	AT&T Mobility
		3	Powerwave 7770.00			
		3	KMW AM-X-CD-16-65-00T-RET			
		1	CCI OPA-65R-LCUU-H8			
		2	CCI OPA-65R-LCUU-H6			
		6	Powerwave TT19-08BP111-001			
		3	Ericsson RRUS 11 (Band 12) (55 lb)			
		2	Raycap DC6-48-60-18-8F			
158.0	158.0	3	Kathrein 742 213	Leg	(6) 1 5/8" Coax	Metro PCS
148.0	148.0	3	Andrew LNX-6515DS-VTM	Sector Frames	(12) 1 5/8" Coax (1) 1 1/4" Hybriflex	T-Mobile
		3	Ericsson RRUS 11 B12			
		3	Ericsson KRY 112 144/1			
		3	Ericsson AIR 21, 1.3M, B4A B2P			
		3	Ericsson AIR 21, 1.3 M, B2A B4P			
125.0	125.0	1	Comprod 872F-70SM	Leg	(2) 1/4" Coax (1) 7/8" Coax	City Of Ansonia, CT
		2	Motorola PTP54600			
102.0	102.0	2	GPS	Standoffs	(1) 1/2" Coax	Sprint Nextel
78.0	84.0	1	12' Dipole	Standoffs	(1) 1/2" Coax	Ansonia Fire Department
76.0	76.0	1	PCTEL GPS-TMG-HR-26N	Standoffs	(1) 1/2" Coax	Sprint Nextel



Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
167.0	167.0	3	Ericsson RRUS 11 (Band 12) (55 lb)	-	-	AT&T Mobility

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
167.0	167.0	3	Quintel QS66512-2	Sector Frames	-	AT&T Mobility
		6	Powerwave 7020.00 Dual Band RET			
		3	Ericsson RRUS 32 B2			

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



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	86%	Pass
Diagonals	83%	Pass
Horizontals	15%	Pass
Anchor Bolts	66%	Pass
Leg Bolts	70%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Uplift (Kips)	301.1	406.5	332.8	82%
Axial (Kips)	343.0	463.1	380.5	82%
Shear (Kips)	36.3	49.0	39.1	80%

* The design reactions are factored by 1.35 per ANSI/TIA-222-G, Sec. 15.5.1

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)	
194.0	DragonWave A-ANT-18G-2-C	Clearwire	0.460	0.011	0.261	
167.0	Powerwave 7020.00 Dual Band RET	AT&T Mobility	0.351		0.011	0.254
	Ericsson RRUS 32 B2					
	Quintel QS66512-2					

*Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-G



Standard Conditions

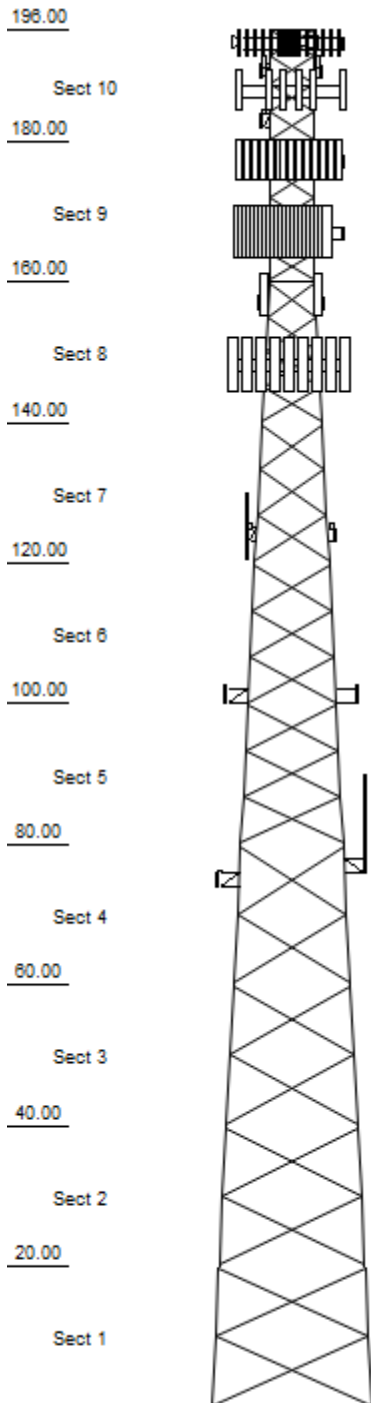
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

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. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

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 we supply.



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Loads: 97 mph no ice
 50 mph w/ 3/4" radial ice
 Site Class: D Ss: 0.19 S1: 0.06
 60 mph Serviceability

Job Information

Tower : 302470 Location : Ansonia Wakelee, CT
 Code : ANSI/TIA-222-G Shape : Triangle Base Width : 23.00 ft
 Client : AT&T Mobility Top Width : 6.65 ft

Sections Properties

Section	Leg Members	Diagonal Members	Horizontal Members
1	PX 50 ksi 8" DIA PIPE	SAE 50 ksi 4X4X0.25	
2	PSP 50 ksi ROHN 8 EHS	SAE 50 ksi 4X4X0.25	
3	PSP 50 ksi ROHN 8 EHS	SAE 50 ksi 3.5X3.5X0.25	
4	PX 50 ksi 6" DIA PIPE	SAE 50 ksi 3.5X3.5X0.25	
5	PSP 50 ksi ROHN 6 EHS	SAE 50 ksi 3X3X0.25	
6 - 7	PX 50 ksi 5" DIA PIPE	SAE 36 ksi 2.5X2.5X0.25	
8	PX 50 ksi 4" DIA PIPE	SAE 36 ksi 2X2X0.25	SAE 36 ksi 2X2X0.125
9	PX 50 ksi 3" DIA PIPE	SAE 36 ksi 2X2X0.1875	
10	PST 50 ksi 2-1/2" DIA PIPE	SAE 36 ksi 1.75X1.75X0.1875	SAE 36 ksi 2X2X0.125

Discrete Appurtenance

Elev (ft)	Type	Qty	Description
194.00	Panel	2	EMS RR90-11-00DBL
194.00	Panel	6	Decibel DB844H90E-XY
194.00	Panel	3	KMW AM-X-WM-17-65-00T
194.00	Panel	3	Argus LLPX310R
194.00	Dish	2	DragonWave A-ANT-18G-2-C
194.00	Panel	3	NextNet BTS-2500
194.00	Panel	2	DragonWave Horizon Compact
194.00	Panel	3	KMW TTA (HB-X-WM-17-65-00T)
194.00	Mounting Frame	3	Round Sector Frames
191.00	Panel	3	RRU
191.00	Panel	3	Alcatel-Lucent 1900 MHz 4x45 R
191.00	Panel	3	Alcatel-Lucent 800 MHz RRR
187.00	Mounting Frame	3	Round Sector Frames
187.00	Panel	2	Powerwave Allgon P40-16-XLPP-R
187.00	Panel	1	RFS APXVSP18-C-A20
187.00	Panel	6	Andrew DB980H90E-M
184.00	Panel	1	18" x 12" Junction Box
177.00	Mounting Frame	3	Flat Light Sector Frames
177.00	Panel	6	Andrew SBNHH-1D65B
177.00	Panel	1	Powerwave Allgon P65-16-XL-2
177.00	Panel	1	Amphenol Antel BXA-70063-6BF-E
177.00	Panel	1	Swedcom SLCP 2x6014
177.00	Panel	3	Antel BXA-80080/4CF
177.00	Panel	2	RFS DB-T1-6Z-8AB-OZ
177.00	Panel	3	Alcatel-Lucent B66 RRR4x45
177.00	Panel	3	Alcatel-Lucent PCS B25 RRR2x60
177.00	Panel	3	Alcatel-Lucent B13 RRR4x30-4R
167.00	Panel	3	Quintel QS66512-2
167.00	Panel	6	Powerwave 7020.00 Dual Band RE
167.00	Panel	3	Ericsson RRUS 32 B2
167.00	Panel	3	Ericsson RRUS-32
167.00	Panel	3	Powerwave Allgon 7770.00
167.00	Panel	3	KMW AM-X-CD-16-65-00T-RET
167.00	Panel	1	CCI OPA-65R-LCUU-H8
167.00	Panel	2	CCI OPA-65R-LCUU-H6
167.00	Panel	6	Powerwave TT19-08BP111-001
167.00	Panel	3	Ericsson RRUS 11 (Band 12) (55
167.00	Panel	2	Raycap DC6-48-60-18-8F
167.00	Mounting Frame	3	Round Sector Frames
158.00	Panel	3	Kathrein 742 213
148.00	Panel	3	Andrew LNX-6515DS-VTM
148.00	Panel	3	Ericsson RRUS 11 B12
148.00	Panel	3	Ericsson KRY 112 144/1
148.00	Panel	3	Ericsson AIR 21, 1.3M, B4A B2P
148.00	Panel	3	Ericsson AIR 21, 1.3 M, B2A B4
148.00	Mounting Frame	3	Round Sector Frame
125.00	Whip	1	Comprod 872F-70SM
125.00	Panel	2	Motorola PTP54600
102.00	Straight Arm	2	Standoffs

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Job Information		
Tower : 302470	Location : Ansonia Wakelee, CT	
Code : ANSI/TIA-222-G	Shape : Triangle	Base Width : 23.00 ft
Client : AT&T Mobility	Top Width : 6.65 ft	

102.00 Whip	2	GPS
78.00 Whip	1	12' Dipole
78.00 Straight Arm	1	Standoffs
76.00 Straight Arm	1	Standoffs
76.00 Panel	1	PCTEL GPS-TMG-HR-26N

Linear Appurtenance			
Elev (ft)			
From	To	Qty	Description
8.00	194.00	1	Wave Guide
8.00	194.00	6	5/16" Coax
8.00	194.00	2	2" Conduit
8.00	194.00	2	1/2" Coax
8.00	194.00	6	1 5/8" Coax
8.00	194.00	10	1 1/4" Coax
8.00	187.00	6	7/8" Coax
8.00	187.00	4	1 1/4" Hybriflex Cab
8.00	183.00	1	Wave Guide
8.00	177.00	2	1 5/8" Hybriflex
8.00	177.00	12	1 5/8" Coax
8.00	167.00	1	Wave Guide
8.00	167.00	12	1 1/4" Coax
8.00	167.00	4	0.78" 8 AWG 6
8.00	167.00	2	0.39" Fiber Trunk
8.00	158.00	1	Waveguide
8.00	158.00	6	1 5/8" Coax
8.00	148.00	1	Wave Guide
8.00	148.00	12	1 5/8" Coax
8.00	148.00	1	1 1/4" Hybriflex
8.00	125.00	1	7/8" Coax
8.00	125.00	2	1/4" Coax
8.00	102.00	1	1/2" Coax
8.00	78.00	1	1/2" Coax
8.00	76.00	1	1/2" Coax

Global Base Foundation Design Loads			
Load Case	Moment (k-ft)	Vertical (kip)	Horizontal (kip)
DL + WL	7,180.15	60.11	64.23
DL + WL + IL	2,277.34	175.94	20.64

Individual Base Foundation Design Loads		
Vertical (kip)	Uplift (kip)	Horizontal (kip)
380.51	332.76	39.12

Site Number: 302470

Code:

ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Analysis Parameters

Location:	New Haven County, CT	Height (ft):	196
Code:	ANSI/TIA-222-G	Base Elevation (ft):	0.00
Shape:	Triangle	Bottom Face Width (ft):	23.00
Tower Manufacturer:	Rohn	Top Face Width (ft):	6.65
Tower Type:	Self Support	Anchor Bolt Detail Type	c

Ice & Wind Parameters

Structure Class:	II	Design Windspeed Without Ice:	97 mph
Exposure Category:	B	Design Windspeed With Ice:	50 mph
Topographic Category:	1	Operational Windspeed:	60 mph
Crest Height:	0.0 ft	Design Ice Thickness:	0.75 in

Seismic Parameters

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods				
Site Class:	D - Stiff Soil				
Period Based on Rayleigh Method (sec):	1.02				
T_L (sec):	6	p:	1.3	C_S :	0.034
S_S :	0.195	S_1 :	0.064	C_S , Max:	0.034
F_a :	1.600	F_V :	2.400	C_S , Min:	0.030
S_{ds} :	0.208	S_{d1} :	0.102		

Load Cases

1.2D + 1.6W Normal	97 mph Normal to Face with No Ice
1.2D + 1.6W 60 deg	97 mph 60 degree with No Ice
1.2D + 1.6W 90 deg	97 mph 90 degree with No Ice
1.2D + 1.6W 120 deg	97 mph 120 degree with No Ice
1.2D + 1.6W 180 deg	97 mph 180 degree with No Ice
1.2D + 1.6W 210 deg	97 mph 210 degree with No Ice
1.2D + 1.6W 240 deg	97 mph 240 degree with No Ice
1.2D + 1.6W 300 deg	97 mph 300 degree with No Ice
1.2D + 1.6W 330 deg	97 mph 330 degree with No Ice
0.9D + 1.6W Normal	97 mph Normal to Face with No Ice (Reduced DL)
0.9D + 1.6W 60 deg	97 mph 60 deg with No Ice (Reduced DL)
0.9D + 1.6W 90 deg	97 mph 90 deg with No Ice (Reduced DL)
0.9D + 1.6W 120 deg	97 mph 120 deg with No Ice (Reduced DL)
0.9D + 1.6W 180 deg	97 mph 180 deg with No Ice (Reduced DL)
0.9D + 1.6W 210 deg	97 mph 210 deg with No Ice (Reduced DL)
0.9D + 1.6W 240 deg	97 mph 240 deg with No Ice (Reduced DL)
0.9D + 1.6W 300 deg	97 mph 300 deg with No Ice (Reduced DL)
0.9D + 1.6W 330 deg	97 mph 330 deg with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi Normal	50 mph Normal with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 60 deg	50 mph 60 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 90 deg	50 mph 90 deg with 0.75 in Radial Ice

Analysis Parameters

1.2D + 1.0Di + 1.0Wi 120 deg	50 mph 120 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 180 deg	50 mph 180 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 210 deg	50 mph 210 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 240 deg	50 mph 240 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 300 deg	50 mph 300 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 330 deg	50 mph 330 deg with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E Normal	Seismic Normal
(1.2 + 0.2Sds) * DL + E 60 deg	Seismic 60 deg
(1.2 + 0.2Sds) * DL + E 90 deg	Seismic 90 deg
(1.2 + 0.2Sds) * DL + E 120 deg	Seismic 120 deg
(1.2 + 0.2Sds) * DL + E 180 deg	Seismic 180 deg
(1.2 + 0.2Sds) * DL + E 210 deg	Seismic 210 deg
(1.2 + 0.2Sds) * DL + E 240 deg	Seismic 240 deg
(1.2 + 0.2Sds) * DL + E 300 deg	Seismic 300 deg
(1.2 + 0.2Sds) * DL + E 330 deg	Seismic 330 deg
(0.9 - 0.2Sds) * DL + E Normal	Seismic (Reduced DL) Normal
(0.9 - 0.2Sds) * DL + E 60 deg	Seismic (Reduced DL) 60 deg
(0.9 - 0.2Sds) * DL + E 90 deg	Seismic (Reduced DL) 90 deg
(0.9 - 0.2Sds) * DL + E 120 deg	Seismic (Reduced DL) 120 deg
(0.9 - 0.2Sds) * DL + E 180 deg	Seismic (Reduced DL) 180 deg
(0.9 - 0.2Sds) * DL + E 210 deg	Seismic (Reduced DL) 210 deg
(0.9 - 0.2Sds) * DL + E 240 deg	Seismic (Reduced DL) 240 deg
(0.9 - 0.2Sds) * DL + E 300 deg	Seismic (Reduced DL) 300 deg
(0.9 - 0.2Sds) * DL + E 330 deg	Seismic (Reduced DL) 330 deg
1.0D + 1.0W Service Normal	Serviceability - 60 mph Wind Normal
1.0D + 1.0W Service 60 deg	Serviceability - 60 mph Wind 60 deg
1.0D + 1.0W Service 90 deg	Serviceability - 60 mph Wind 90 deg
1.0D + 1.0W Service 120 deg	Serviceability - 60 mph Wind 120 deg
1.0D + 1.0W Service 180 deg	Serviceability - 60 mph Wind 180 deg
1.0D + 1.0W Service 210 deg	Serviceability - 60 mph Wind 210 deg
1.0D + 1.0W Service 240 deg	Serviceability - 60 mph Wind 240 deg
1.0D + 1.0W Service 300 deg	Serviceability - 60 mph Wind 300 deg
1.0D + 1.0W Service 330 deg	Serviceability - 60 mph Wind 330 deg

Site Number: 302470

Code:

ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Tower Loading

Discrete Appurtenance Properties 1.2D + 1.6W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
194.0	DragonWave	2	11	0.4	0.4	9.3	9.3	0.80	0.50	0.0	0.0	24.45	11	31
194.0	KMW TTA (HB-X-WM-	3	16	0.6	1.3	7.3	3.7	0.80	0.50	0.0	0.0	24.45	26	69
194.0	NextNet BTS-2500	3	35	1.8	1.6	11.3	5.1	0.80	0.50	0.0	0.0	24.45	73	151
194.0	KMW AM-X-WM-17-	3	14	3.4	4.0	7.3	2.6	0.80	0.64	0.0	0.0	24.45	172	61
194.0	Decibel DB844H90E-	6	14	3.6	4.0	8.0	6.5	0.80	0.74	0.0	0.0	24.45	426	121
194.0	Argus LLPX310R	3	29	4.3	3.5	11.8	4.5	0.80	0.63	0.0	0.0	24.45	216	124
194.0	DragonWave A-ANT-	2	27	4.7	2.2	0.0	0.0	0.80	1.00	0.0	0.0	24.45	250	78
194.0	EMS RR90-11-00DBL	2	18	5.1	4.0	12.0	7.0	0.80	0.68	0.0	0.0	24.45	183	52
194.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	24.45	722	1296
191.0	Alcatel-Lucent 800	3	53	2.1	1.6	13.0	10.8	1.00	0.50	0.0	0.0	24.34	106	229
191.0	Alcatel-Lucent 1900	3	60	2.3	2.1	11.1	10.7	1.00	0.50	0.0	0.0	24.34	115	259
191.0	RRU	3	55	4.6	1.8	25.0	7.4	1.00	0.50	0.0	0.0	24.34	226	238
187.0	Andrew DB980H90E-	6	9	3.9	5.0	6.3	3.0	0.80	0.67	0.0	0.0	24.20	413	73
187.0	RFS APXVSP18-C-	1	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	24.20	146	82
187.0	Powerwave Allgon	2	64	9.1	4.5	20.0	6.5	0.80	0.61	0.0	0.0	24.20	291	184
187.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	24.20	800	1296
184.0	18" x 12" Junction	1	15	1.8	1.0	12.0	8.0	0.80	1.00	0.0	0.0	24.08	47	22
177.0	Alcatel-Lucent B13	3	57	2.2	1.8	12.0	9.0	0.80	0.67	0.0	0.0	23.82	113	247
177.0	Alcatel-Lucent PCS	3	55	2.2	1.8	12.0	9.4	0.80	0.67	0.0	0.0	23.82	115	238
177.0	Alcatel-Lucent B66	3	67	2.6	2.2	12.0	7.3	0.80	0.67	0.0	0.0	23.82	134	289
177.0	RFS DB-T1-6Z-8AB-	2	44	4.8	2.0	24.0	10.0	0.80	0.50	0.0	0.0	23.82	124	127
177.0	Antel BXA-80080/4CF	3	14	4.8	4.0	11.2	5.9	0.80	0.67	0.0	0.0	23.82	250	62
177.0	Swedcom SLCF	1	20	6.5	4.4	14.0	11.0	0.80	0.73	0.0	0.0	23.82	123	29
177.0	Amphenol Antel BXA-	1	19	7.3	5.7	11.2	5.3	0.80	0.66	0.0	0.0	23.82	124	28
177.0	Powerwave Allgon	1	33	8.1	6.0	12.0	5.0	0.80	0.65	0.0	0.0	23.82	137	48
177.0	Andrew SBNHH-	6	51	8.2	6.1	11.9	7.1	1.00	0.69	0.0	0.0	23.82	1096	438
177.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	23.82	874	1728
167.0	Powerwave 7020.00	6	2	0.4	0.4	8.3	2.4	0.80	0.50	0.0	0.0	23.43	31	19
167.0	Powerwave TT19-	6	16	0.6	0.8	6.7	5.4	0.80	0.50	0.0	0.0	23.43	49	138
167.0	Raycap DC6-48-60-	2	32	1.3	2.0	9.7	9.7	0.80	0.67	0.0	0.0	23.43	44	92
167.0	Ericsson RRUS 11	3	55	2.5	1.5	17.0	7.2	0.80	0.50	0.0	0.0	23.43	96	238
167.0	Ericsson RRUS 32 B2	3	53	2.7	2.3	12.1	7.0	0.80	0.50	0.0	0.0	23.43	105	229
167.0	Ericsson RRUS-32	3	77	3.3	2.5	13.3	9.5	0.80	0.50	0.0	0.0	23.43	127	333
167.0	Powerwave Allgon	3	35	5.5	4.6	11.0	5.0	0.80	0.65	0.0	0.0	23.43	274	151
167.0	KMW AM-X-CD-16-	3	49	8.0	6.0	11.8	5.9	0.80	0.67	0.0	0.0	23.43	411	210
167.0	Quintel QS66512-2	3	111	8.1	6.0	12.0	9.6	0.80	0.74	0.0	0.0	23.43	460	480
167.0	CCI OPA-65R-LCUU-	2	73	9.7	6.0	14.8	7.4	0.80	0.66	0.0	0.0	23.43	325	210
167.0	CCI OPA-65R-LCUU-	1	88	13.0	7.7	14.8	7.4	0.80	0.67	0.0	0.0	23.43	222	127
167.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	23.43	692	1296
158.0	Kathrein 742 213	3	22	5.1	6.4	6.1	2.7	1.00	0.67	0.0	0.0	23.06	324	95
148.0	Ericsson KRY 112	3	11	0.4	0.6	6.1	2.7	0.80	0.50	0.0	0.0	22.63	15	48
148.0	Ericsson RRUS 11	3	51	2.8	1.6	17.0	7.2	0.80	0.50	0.0	0.0	22.63	103	219
148.0	Ericsson AIR 21, 1.3	3	83	6.1	4.7	12.0	8.0	0.80	0.71	0.0	0.0	22.63	317	359
148.0	Ericsson AIR 21,	3	82	6.1	4.7	12.1	7.9	0.80	0.70	0.0	0.0	22.63	315	352
148.0	Andrew LNX-	3	51	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.0	22.63	591	222
148.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	22.63	668	1296
125.0	Motorola PTP54600	2	12	1.8	1.2	14.5	3.8	1.00	0.58	0.0	0.0	21.57	60	35
125.0	Comprod 872F-70SM	1	21	2.6	9.5	2.5	2.5	1.00	0.58	0.0	0.0	21.57	44	30
102.0	GPS	2	10	1.0	1.0	9.0	6.0	0.90	1.00	0.0	0.0	20.35	50	29
102.0	Standoffs	2	75	2.5	0.0	0.0	0.0	1.00	0.90	0.0	0.0	20.35	125	216
78.00	Standoffs	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	18.85	64	108
78.00	12' Dipole	1	40	4.5	12.0	3.0	3.0	0.90	1.00	6.0	637.6	19.25	106	58
76.00	PCTEL GPS-TMG-HR-	1	1	0.1	0.4	3.2	3.2	0.90	1.00	0.0	0.0	18.71	2	1
76.00	Standoffs	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	18.71	64	108

Tower Loading

Totals 145 9926 743.2

Discrete Appurtenance Properties 0.9D + 1.6W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
194.0	DragonWave	2	11	0.4	0.4	9.3	9.3	0.80	0.50	0.0	0.0	24.45	11	17
194.0	KMW TTA (HB-X-WM-	3	16	0.6	1.3	7.3	3.7	0.80	0.50	0.0	0.0	24.45	26	39
194.0	NextNet BTS-2500	3	35	1.8	1.6	11.3	5.1	0.80	0.50	0.0	0.0	24.45	73	85
194.0	KMW AM-X-WM-17-	3	14	3.4	4.0	7.3	2.6	0.80	0.64	0.0	0.0	24.45	172	35
194.0	Decibel DB844H90E-	6	14	3.6	4.0	8.0	6.5	0.80	0.74	0.0	0.0	24.45	426	68
194.0	Argus LLPX310R	3	29	4.3	3.5	11.8	4.5	0.80	0.63	0.0	0.0	24.45	216	69
194.0	DragonWave A-ANT-	2	27	4.7	2.2	0.0	0.0	0.80	1.00	0.0	0.0	24.45	250	44
194.0	EMS RR90-11-00DBL	2	18	5.1	4.0	12.0	7.0	0.80	0.68	0.0	0.0	24.45	183	29
194.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	24.45	722	729
191.0	Alcatel-Lucent 800	3	53	2.1	1.6	13.0	10.8	1.00	0.50	0.0	0.0	24.34	106	129
191.0	Alcatel-Lucent 1900	3	60	2.3	2.1	11.1	10.7	1.00	0.50	0.0	0.0	24.34	115	146
191.0	RRU	3	55	4.6	1.8	25.0	7.4	1.00	0.50	0.0	0.0	24.34	226	134
187.0	Andrew DB980H90E-	6	9	3.9	5.0	6.3	3.0	0.80	0.67	0.0	0.0	24.20	413	41
187.0	RFS APXVSP18-C-	1	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	24.20	146	46
187.0	Powerwave Allgon	2	64	9.1	4.5	20.0	6.5	0.80	0.61	0.0	0.0	24.20	291	104
187.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	24.20	800	729
184.0	18" x 12" Junction	1	15	1.8	1.0	12.0	8.0	0.80	1.00	0.0	0.0	24.08	47	12
177.0	Alcatel-Lucent B13	3	57	2.2	1.8	12.0	9.0	0.80	0.67	0.0	0.0	23.82	113	139
177.0	Alcatel-Lucent PCS	3	55	2.2	1.8	12.0	9.4	0.80	0.67	0.0	0.0	23.82	115	134
177.0	Alcatel-Lucent B66	3	67	2.6	2.2	12.0	7.3	0.80	0.67	0.0	0.0	23.82	134	163
177.0	RFS DB-T1-6Z-8AB-	2	44	4.8	2.0	24.0	10.0	0.80	0.50	0.0	0.0	23.82	124	71
177.0	Antel BXA-80080/4CF	3	14	4.8	4.0	11.2	5.9	0.80	0.67	0.0	0.0	23.82	250	35
177.0	Swedcom SLCP	1	20	6.5	4.4	14.0	11.0	0.80	0.73	0.0	0.0	23.82	123	16
177.0	Amphenol Antel BXA-	1	19	7.3	5.7	11.2	5.3	0.80	0.66	0.0	0.0	23.82	124	16
177.0	Powerwave Allgon	1	33	8.1	6.0	12.0	5.0	0.80	0.65	0.0	0.0	23.82	137	27
177.0	Andrew SBNHH-	6	51	8.2	6.1	11.9	7.1	1.00	0.69	0.0	0.0	23.82	1096	246
177.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	23.82	874	972
167.0	Powerwave 7020.00	6	2	0.4	0.4	8.3	2.4	0.80	0.50	0.0	0.0	23.43	31	11
167.0	Powerwave TT19-	6	16	0.6	0.8	6.7	5.4	0.80	0.50	0.0	0.0	23.43	49	78
167.0	Raycap DC6-48-60-	2	32	1.3	2.0	9.7	9.7	0.80	0.67	0.0	0.0	23.43	44	52
167.0	Ericsson RRUS 11	3	55	2.5	1.5	17.0	7.2	0.80	0.50	0.0	0.0	23.43	96	134
167.0	Ericsson RRUS 32 B2	3	53	2.7	2.3	12.1	7.0	0.80	0.50	0.0	0.0	23.43	105	129
167.0	Ericsson RRUS-32	3	77	3.3	2.5	13.3	9.5	0.80	0.50	0.0	0.0	23.43	127	187
167.0	Powerwave Allgon	3	35	5.5	4.6	11.0	5.0	0.80	0.65	0.0	0.0	23.43	274	85
167.0	KMW AM-X-CD-16-	3	49	8.0	6.0	11.8	5.9	0.80	0.67	0.0	0.0	23.43	411	118
167.0	Quintel QS66512-2	3	111	8.1	6.0	12.0	9.6	0.80	0.74	0.0	0.0	23.43	460	270
167.0	CCI OPA-65R-LCUU-	2	73	9.7	6.0	14.8	7.4	0.80	0.66	0.0	0.0	23.43	325	118
167.0	CCI OPA-65R-LCUU-	1	88	13.0	7.7	14.8	7.4	0.80	0.67	0.0	0.0	23.43	222	71
167.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	23.43	692	729
158.0	Kathrein 742 213	3	22	5.1	6.4	6.1	2.7	1.00	0.67	0.0	0.0	23.06	324	53
148.0	Ericsson KRY 112	3	11	0.4	0.6	6.1	2.7	0.80	0.50	0.0	0.0	22.63	15	27
148.0	Ericsson RRUS 11	3	51	2.8	1.6	17.0	7.2	0.80	0.50	0.0	0.0	22.63	103	123
148.0	Ericsson AIR 21, 1.3	3	83	6.1	4.7	12.0	8.0	0.80	0.71	0.0	0.0	22.63	317	202
148.0	Ericsson AIR 21,	3	82	6.1	4.7	12.1	7.9	0.80	0.70	0.0	0.0	22.63	315	198
148.0	Andrew LNX-	3	51	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.0	22.63	591	125
148.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	22.63	668	729
125.0	Motorola PTP54600	2	12	1.8	1.2	14.5	3.8	1.00	0.58	0.0	0.0	21.57	60	20
125.0	Comprod 872F-70SM	1	21	2.6	9.5	2.5	2.5	1.00	0.58	0.0	0.0	21.57	44	17
102.0	GPS	2	10	1.0	1.0	9.0	6.0	0.90	1.00	0.0	0.0	20.35	50	16
102.0	Standoffs	2	75	2.5	0.0	0.0	0.0	1.00	0.90	0.0	0.0	20.35	125	122

Site Number: 302470

Code: ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Tower Loading

78.00 Standoffs	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	18.85	64	61
78.00 12' Dipole	1	40	4.5	12.0	3.0	3.0	0.90	1.00	6.0	637.6	19.25	106	32
76.00 PCTEL GPS-TMG-HR-	1	1	0.1	0.4	3.2	3.2	0.90	1.00	0.0	0.0	18.71	2	0
76.00 Standoffs	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	18.71	64	61
Totals	145	9926	743.2										

Discrete Appurtenance Properties 1.2D + 1.0Di + 1.0Wi

Elevation (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
194.0	DragonWave	2	14	0.6	0.4	9.3	9.3	0.80	0.50	0.0	0.0	6.50	3	40
194.0	KMW TTA (HB-X-WM-	3	22	0.9	1.3	7.3	3.7	0.80	0.50	0.0	0.0	6.50	6	89
194.0	NextNet BTS-2500	3	47	2.5	1.6	11.3	5.1	0.80	0.50	0.0	0.0	6.50	16	196
194.0	KMW AM-X-WM-17-	3	97	4.3	4.0	7.3	2.6	0.80	0.64	0.0	0.0	6.50	36	359
194.0	Decibel DB844H90E-	6	128	4.5	4.0	8.0	6.5	0.80	0.74	0.0	0.0	6.50	89	941
194.0	Argus LLPX310R	3	39	5.8	3.5	11.8	4.5	0.80	0.63	0.0	0.0	6.50	49	160
194.0	DragonWave A-ANT-	2	127	6.4	2.2	0.0	0.0	0.80	1.00	0.0	0.0	6.50	56	318
194.0	EMS RR90-11-00DBL	2	162	6.1	4.0	12.0	7.0	0.80	0.68	0.0	0.0	6.50	37	398
194.0	Round Sector	3	677	31.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.50	261	2653
191.0	Alcatel-Lucent 800	3	143	2.8	1.6	13.0	10.8	1.00	0.50	0.0	0.0	6.47	23	552
191.0	Alcatel-Lucent 1900	3	158	3.0	2.1	11.1	10.7	1.00	0.50	0.0	0.0	6.47	25	611
191.0	RRU	3	182	5.4	1.8	25.0	7.4	1.00	0.50	0.0	0.0	6.47	45	696
187.0	Andrew DB980H90E-	6	105	5.0	5.0	6.3	3.0	0.80	0.67	0.0	0.0	6.43	87	771
187.0	RFS APXVSP18-C-	1	262	9.3	6.0	11.8	7.0	0.80	0.69	0.0	0.0	6.43	28	328
187.0	Powerwave Allgon	2	279	10.3	4.5	20.0	6.5	0.80	0.61	0.0	0.0	6.43	55	701
187.0	Round Sector	3	621	24.7	0.0	0.0	0.0	0.75	0.75	0.0	0.0	6.43	228	2453
184.0	18" x 12" Junction	1	69	1.7	1.0	12.0	8.0	0.80	1.00	0.0	0.0	6.40	7	86
177.0	Alcatel-Lucent B13	3	141	2.8	1.8	12.0	9.0	0.80	0.67	0.0	0.0	6.33	24	547
177.0	Alcatel-Lucent PCS	3	127	3.2	1.8	12.0	9.4	0.80	0.67	0.0	0.0	6.33	28	497
177.0	Alcatel-Lucent B66	3	154	3.3	2.2	12.0	7.3	0.80	0.67	0.0	0.0	6.33	28	602
177.0	RFS DB-T1-6Z-8AB-	2	190	5.7	2.0	24.0	10.0	0.80	0.50	0.0	0.0	6.33	24	477
177.0	Antel BXA-80080/4CF	3	144	5.8	4.0	11.2	5.9	0.80	0.67	0.0	0.0	6.33	50	530
177.0	Swedcom SLCF	1	223	7.6	4.4	14.0	11.0	0.80	0.73	0.0	0.0	6.33	24	272
177.0	Amphenol Antel BXA-	1	192	8.5	5.7	11.2	5.3	0.80	0.66	0.0	0.0	6.33	24	235
177.0	Powerwave Allgon	1	218	9.4	6.0	12.0	5.0	0.80	0.65	0.0	0.0	6.33	26	269
177.0	Andrew SBNHH-	6	257	9.5	6.1	11.9	7.1	1.00	0.69	0.0	0.0	6.33	211	1925
177.0	Flat Light Sector	3	705	33.2	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.33	269	2827
167.0	Powerwave 7020.00	6	18	0.6	0.4	8.3	2.4	0.80	0.50	0.0	0.0	6.22	8	134
167.0	Powerwave TT19-	6	44	0.9	0.8	6.7	5.4	0.80	0.50	0.0	0.0	6.22	11	341
167.0	Raycap DC6-48-60-	2	114	2.5	2.0	9.7	9.7	0.80	0.67	0.0	0.0	6.22	14	288
167.0	Ericsson RRUS 11	3	137	3.2	1.5	17.0	7.2	0.80	0.50	0.0	0.0	6.22	20	532
167.0	Ericsson RRUS 32 B2	3	142	3.5	2.3	12.1	7.0	0.80	0.50	0.0	0.0	6.22	22	551
167.0	Ericsson RRUS-32	3	176	4.6	2.5	13.3	9.5	0.80	0.50	0.0	0.0	6.22	29	688
167.0	Powerwave Allgon	3	172	6.6	4.6	11.0	5.0	0.80	0.65	0.0	0.0	6.22	54	645
167.0	KMW AM-X-CD-16-	3	240	9.3	6.0	11.8	5.9	0.80	0.67	0.0	0.0	6.22	79	900
167.0	Quintel QS66512-2	3	342	9.4	6.0	12.0	9.6	0.80	0.74	0.0	0.0	6.22	89	1310
167.0	CCI OPA-65R-LCUU-	2	308	11.0	6.0	14.8	7.4	0.80	0.66	0.0	0.0	6.22	62	775
167.0	CCI OPA-65R-LCUU-	1	383	14.6	7.7	14.8	7.4	0.80	0.67	0.0	0.0	6.22	41	481
167.0	Round Sector	3	618	24.6	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.22	196	2441
158.0	Kathrein 742 213	3	135	6.4	6.4	6.1	2.7	1.00	0.67	0.0	0.0	6.13	67	502
148.0	Ericsson KRY 112	3	27	0.6	0.6	6.1	2.7	0.80	0.50	0.0	0.0	6.01	4	107
148.0	Ericsson RRUS 11	3	137	3.5	1.6	17.0	7.2	0.80	0.50	0.0	0.0	6.01	21	530
148.0	Ericsson AIR 21, 1.3	3	252	7.1	4.7	12.0	8.0	0.80	0.71	0.0	0.0	6.01	62	967
148.0	Ericsson AIR 21,	3	250	7.2	4.7	12.1	7.9	0.80	0.70	0.0	0.0	6.01	62	960
148.0	Andrew LNX-	3	315	13.1	8.0	11.9	7.1	0.80	0.70	0.0	0.0	6.01	112	1170
148.0	Round Sector Frame	3	669	31.0	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.01	239	2623

Site Number: 302470

Code: ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Tower Loading

125.0	Motorola PTP54600	2	16	2.4	1.2	14.5	3.8	1.00	0.58	0.0	0.0	5.73	13	45
125.0	Comprod 872F-70SM	1	132	5.3	9.5	2.5	2.5	1.00	0.58	0.0	0.0	5.73	15	164
102.0	GPS	2	15	3.3	1.0	9.0	6.0	0.90	1.00	0.0	0.0	5.41	28	42
102.0	Standoffs	2	100	2.8	0.0	0.0	0.0	1.00	0.90	0.0	0.0	5.41	23	277
78.00	Standoffs	1	99	2.8	0.0	0.0	0.0	1.00	1.00	0.0	0.0	5.01	12	137
78.00	12' Dipole	1	53	6.0	12.0	3.0	3.0	0.90	1.00	6.0	140.1	5.11	23	73
76.00	PCTEL GPS-TMG-HR-	1	10	0.3	0.4	3.2	3.2	0.90	1.00	0.0	0.0	4.97	1	12
76.00	Standoffs	1	99	2.8	0.0	0.0	0.0	1.00	1.00	0.0	0.0	4.97	12	137
Totals		145	28318	1071.3										

Discrete Appurtenance Properties 1.0D + 1.0W Service

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
194.0	DragonWave	2	11	0.4	0.4	9.3	9.3	0.80	0.50	0.0	0.0	9.36	3	21
194.0	KMW TTA (HB-X-WM-	3	16	0.6	1.3	7.3	3.7	0.80	0.50	0.0	0.0	9.36	6	48
194.0	NextNet BTS-2500	3	35	1.8	1.6	11.3	5.1	0.80	0.50	0.0	0.0	9.36	17	105
194.0	KMW AM-X-WM-17-	3	14	3.4	4.0	7.3	2.6	0.80	0.64	0.0	0.0	9.36	41	43
194.0	Decibel DB844H90E-	6	14	3.6	4.0	8.0	6.5	0.80	0.74	0.0	0.0	9.36	102	84
194.0	Argus LLPX310R	3	29	4.3	3.5	11.8	4.5	0.80	0.63	0.0	0.0	9.36	52	86
194.0	DragonWave A-ANT-	2	27	4.7	2.2	0.0	0.0	0.80	1.00	0.0	0.0	9.36	60	54
194.0	EMS RR90-11-00DBL	2	18	5.1	4.0	12.0	7.0	0.80	0.68	0.0	0.0	9.36	44	36
194.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	9.36	173	900
191.0	Alcatel-Lucent 800	3	53	2.1	1.6	13.0	10.8	1.00	0.50	0.0	0.0	9.31	25	159
191.0	Alcatel-Lucent 1900	3	60	2.3	2.1	11.1	10.7	1.00	0.50	0.0	0.0	9.31	28	180
191.0	RRU	3	55	4.6	1.8	25.0	7.4	1.00	0.50	0.0	0.0	9.31	54	165
187.0	Andrew DB980H90E-	6	9	3.9	5.0	6.3	3.0	0.80	0.67	0.0	0.0	9.26	99	51
187.0	RFS APXVSP18-C-	1	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	9.26	35	57
187.0	Powerwave Allgon	2	64	9.1	4.5	20.0	6.5	0.80	0.61	0.0	0.0	9.26	70	128
187.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	9.26	191	900
184.0	18" x 12" Junction	1	15	1.8	1.0	12.0	8.0	0.80	1.00	0.0	0.0	9.21	11	15
177.0	Alcatel-Lucent B13	3	57	2.2	1.8	12.0	9.0	0.80	0.67	0.0	0.0	9.11	27	172
177.0	Alcatel-Lucent PCS	3	55	2.2	1.8	12.0	9.4	0.80	0.67	0.0	0.0	9.11	27	165
177.0	Alcatel-Lucent B66	3	67	2.6	2.2	12.0	7.3	0.80	0.67	0.0	0.0	9.11	32	201
177.0	RFS DB-T1-6Z-8AB-	2	44	4.8	2.0	24.0	10.0	0.80	0.50	0.0	0.0	9.11	30	88
177.0	Antel BXA-80080/4CF	3	14	4.8	4.0	11.2	5.9	0.80	0.67	0.0	0.0	9.11	60	43
177.0	Swedcom SLCP	1	20	6.5	4.4	14.0	11.0	0.80	0.73	0.0	0.0	9.11	29	20
177.0	Amphenol Antel BXA-	1	19	7.3	5.7	11.2	5.3	0.80	0.66	0.0	0.0	9.11	30	19
177.0	Powerwave Allgon	1	33	8.1	6.0	12.0	5.0	0.80	0.65	0.0	0.0	9.11	33	33
177.0	Andrew SBNHH-	6	51	8.2	6.1	11.9	7.1	1.00	0.69	0.0	0.0	9.11	262	304
177.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	9.11	209	1200
167.0	Powerwave 7020.00	6	2	0.4	0.4	8.3	2.4	0.80	0.50	0.0	0.0	8.96	7	13
167.0	Powerwave TT19-	6	16	0.6	0.8	6.7	5.4	0.80	0.50	0.0	0.0	8.96	12	96
167.0	Raycap DC6-48-60-	2	32	1.3	2.0	9.7	9.7	0.80	0.67	0.0	0.0	8.96	10	64
167.0	Ericsson RRUS 11	3	55	2.5	1.5	17.0	7.2	0.80	0.50	0.0	0.0	8.96	23	165
167.0	Ericsson RRUS 32 B2	3	53	2.7	2.3	12.1	7.0	0.80	0.50	0.0	0.0	8.96	25	159
167.0	Ericsson RRUS-32	3	77	3.3	2.5	13.3	9.5	0.80	0.50	0.0	0.0	8.96	30	231
167.0	Powerwave Allgon	3	35	5.5	4.6	11.0	5.0	0.80	0.65	0.0	0.0	8.96	65	105
167.0	KMW AM-X-CD-16-	3	49	8.0	6.0	11.8	5.9	0.80	0.67	0.0	0.0	8.96	98	146
167.0	Quintel QS66512-2	3	111	8.1	6.0	12.0	9.6	0.80	0.74	0.0	0.0	8.96	110	333
167.0	CCI OPA-65R-LCUU-	2	73	9.7	6.0	14.8	7.4	0.80	0.66	0.0	0.0	8.96	78	146
167.0	CCI OPA-65R-LCUU-	1	88	13.0	7.7	14.8	7.4	0.80	0.67	0.0	0.0	8.96	53	88
167.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	8.96	165	900
158.0	Kathrein 742 213	3	22	5.1	6.4	6.1	2.7	1.00	0.67	0.0	0.0	8.82	77	66
148.0	Ericsson KRY 112	3	11	0.4	0.6	6.1	2.7	0.80	0.50	0.0	0.0	8.66	4	33
148.0	Ericsson RRUS 11	3	51	2.8	1.6	17.0	7.2	0.80	0.50	0.0	0.0	8.66	25	152

Site Number: 302470

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Tower Loading

148.0	Ericsson AIR 21, 1.3	3	83	6.1	4.7	12.0	8.0	0.80	0.71	0.0	0.0	8.66	76	249
148.0	Ericsson AIR 21,	3	82	6.1	4.7	12.1	7.9	0.80	0.70	0.0	0.0	8.66	75	245
148.0	Andrew LNX-	3	51	11.4	8.0	11.9	7.1	0.80	0.70	0.0	0.0	8.66	141	154
148.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	8.66	160	900
125.0	Motorola PTP54600	2	12	1.8	1.2	14.5	3.8	1.00	0.58	0.0	0.0	8.25	14	24
125.0	Comprod 872F-70SM	1	21	2.6	9.5	2.5	2.5	1.00	0.58	0.0	0.0	8.25	10	21
102.0	GPS	2	10	1.0	1.0	9.0	6.0	0.90	1.00	0.0	0.0	7.79	12	20
102.0	Standoffs	2	75	2.5	0.0	0.0	0.0	1.00	0.90	0.0	0.0	7.79	30	150
78.00	Standoffs	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	7.21	15	75
78.00	12' Dipole	1	40	4.5	12.0	3.0	3.0	0.90	1.00	6.0	152.5	7.37	25	40
76.00	PCTEL GPS-TMG-HR-	1	1	0.1	0.4	3.2	3.2	0.90	1.00	0.0	0.0	7.16	0	1
76.00	Standoffs	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	7.16	15	75
	Totals	145	9926	743.2										

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Tower Loading

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	Ka Override
8.00	194.0	1 1/4" Coax	10	1.55	0.63	90	3	Block	0.00	N	0.00	1.00	0.00
8.00	194.0	1 5/8" Coax	6	1.98	0.82	50	3	Block	0.00	N	0.00	1.00	0.00
8.00	194.0	1/2" Coax	2	0.63	0.15	0	2	Individual	0.00	N	1.00	1.00	0.00
8.00	194.0	2" Conduit	2	2.38	3.65	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
8.00	194.0	5/16" Coax	6	0.32	0.04	0	2	Individual	0.00	N	0.00	1.00	0.01
8.00	194.0	Wave Guide	1	1.00	5.00	0	3	Individual	0.00	N	0.00	1.00	0.00
8.00	187.0	1 1/4" Hybriflex	4	1.54	1.00	0	Lin App	Individual	0.00	N	0.00	1.00	0.00
8.00	187.0	7/8" Coax	6	1.09	0.33	50	3	Block	0.00	N	0.00	1.00	0.00
8.00	183.0	Wave Guide	1	1.00	5.00	0	2	Individual	0.00	N	0.00	1.00	0.00
8.00	177.0	1 5/8" Coax	12	1.98	0.82	50	Lin App	Block	0.00	N	0.00	1.00	0.00
8.00	177.0	1 5/8" Hybriflex	2	1.98	1.30	0	Lin App	Individual	0.00	N	1.00	1.00	0.01
8.00	167.0	0.39" Fiber Trunk	2	0.39	0.06	0	Lin App	Individual	0.00	N	1.00	1.00	0.01
8.00	167.0	0.78" 8 AWG 6	4	0.78	0.59	0	Lin App	Individual	0.00	N	0.00	1.00	0.01
8.00	167.0	1 1/4" Coax	12	1.55	0.63	0	1	Individual	0.00	N	1.00	1.00	0.00
8.00	167.0	Wave Guide	1	1.00	5.00	0	1	Individual	0.00	N	0.00	1.00	0.00
8.00	158.0	1 5/8" Coax	6	1.98	0.82	0	1	Individual	0.00	N	0.00	1.00	0.00
8.00	158.0	Waveguide	1	1.50	6.00	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
8.00	148.0	1 1/4" Hybriflex	1	1.54	1.00	0	Lin App	Individual	0.00	N	1.00	1.00	0.01
8.00	148.0	1 5/8" Coax	12	1.98	0.82	67	3	Block	0.00	N	0.00	1.00	0.00
8.00	148.0	Wave Guide	1	1.50	5.00	0	3	Individual	0.00	N	0.00	1.00	0.00
8.00	125.0	1/4" Coax	2	0.34	0.06	0	1	Individual	0.00	N	0.00	1.00	0.00
8.00	125.0	7/8" Coax	1	1.09	0.33	100	1	Individual	0.00	N	0.00	1.00	0.00
8.00	102.0	1/2" Coax	1	0.63	0.15	0	3	Individual	0.00	N	0.00	1.00	0.00
8.00	78.00	1/2" Coax	1	0.63	0.15	0	1	Individual	0.00	N	0.00	1.00	0.00
8.00	76.00	1/2" Coax	1	0.63	0.15	0	2	Individual	0.00	N	0.00	1.00	0.00

Site Number: 302470

Code: ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Equivalent Lateral Force Method

(Based on ASCE7-10 Chapters 11, 12 & 15)

Spectral Response Acceleration for Short Period (S_s):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.06
Long-Period Transition Period (T_L - Seconds):	6
Importance Factor (I_p):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.21
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s :	0.03
Lower Limit C_s :	0.03
Period based on Rayleigh Method (sec):	1.02
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.26
Total Unfactored Dead Load:	50.09 k
Seismic Base Shear (E):	2.19 k

LoadCase (1.2 + 0.2Sds) * DL + E

Seismic

Section	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
10	188.00	1,099	796,781	0.047	102	1,364
9	170.00	2,202	1,406,86	0.082	180	2,734
8	150.00	3,213	1,753,38	0.102	224	3,989
7	130.00	3,908	1,781,40	0.104	228	4,852
6	110.00	4,044	1,494,17	0.087	191	5,021
5	90.00	4,523	1,298,42	0.076	166	5,616
4	70.00	4,817	1,007,97	0.059	129	5,980
3	50.00	5,213	714,539	0.042	91	6,473
2	30.00	5,554	400,396	0.023	51	6,896
1	10.00	5,596	101,314	0.006	13	6,948
DragonWave Horizon Compact	194.00	21	15,991	0.001	2	26
KMW TTA (HB-X-WM-17-65-00T)	194.00	48	35,979	0.002	5	59
NextNet BTS-2500	194.00	105	79,199	0.005	10	130
KMW AM-X-WM-17-65-00T	194.00	43	32,132	0.002	4	53
Decibel DB844H90E-XY	194.00	84	63,359	0.004	8	104
Argus LLPX310R	194.00	86	64,717	0.004	8	107
DragonWave A-ANT-18G-2-C	194.00	54	40,882	0.002	5	67
EMS RR90-11-00DBL	194.00	36	27,154	0.002	3	45
Round Sector Frames	194.00	900	678,847	0.040	87	1,117
Alcatel-Lucent 800 MHz RRH	191.00	159	117,602	0.007	15	197
Alcatel-Lucent 1900 MHz 4x45 RRH	191.00	180	133,134	0.008	17	223
RRU	191.00	165	122,040	0.007	16	205
Andrew DB980H90E-M	187.00	51	36,730	0.002	5	63

Site Number: 302470

Code: ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Equivalent Lateral Force Method

RFS APXVSP18-C-A20	187.00	57	41,052	0.002	5	71
Powerwave Allgon P40-16-XLPP-RRR	187.00	128	92,186	0.005	12	159
Round Sector Frames	187.00	900	648,183	0.038	83	1,117
18" x 12" Junction Box	184.00	15	10,586	0.001	1	19
Alcatel-Lucent B13 RRH4x30-4R 700U	177.00	172	115,333	0.007	15	213
Alcatel-Lucent PCS B25 RRH2x60/4x30	177.00	165	110,897	0.006	14	205
Alcatel-Lucent B66 RRH4x45	177.00	201	135,092	0.008	17	250
RFS DB-T1-6Z-8AB-0Z	177.00	88	59,145	0.003	8	109
Antel BXA-80080/4CF	177.00	43	28,833	0.002	4	53
Swedcom SLCP 2x6014	177.00	20	13,442	0.001	2	25
Amphenol Antel BXA-70063-6BF-EDIN-X	177.00	19	12,904	0.001	2	24
Powerwave Allgon P65-16-XL-2	177.00	33	22,179	0.001	3	41
Andrew SBNHH-1D65B	177.00	304	204,453	0.012	26	378
Flat Light Sector Frames	177.00	1,200	806,521	0.047	103	1,490
Powerwave 7020.00 Dual Band RET	167.00	13	8,246	0.000	1	16
Powerwave TT19-08BP111-001	167.00	96	59,971	0.004	8	119
Raycap DC6-48-60-18-8F	167.00	64	39,731	0.002	5	79
Ericsson RRUS 11 (Band 12) (55 lb)	167.00	165	103,075	0.006	13	205
Ericsson RRUS 32 B2	167.00	159	99,326	0.006	13	197
Ericsson RRUS-32	167.00	231	144,304	0.008	18	287
Powerwave Allgon 7770.00	167.00	105	65,593	0.004	8	130
KMW AM-X-CD-16-65-00T-RET	167.00	146	90,893	0.005	12	181
Quintel QS66512-2	167.00	333	208,023	0.012	27	413
CCI OPA-65R-LCUU-H6	167.00	146	91,205	0.005	12	181
CCI OPA-65R-LCUU-H8	167.00	88	54,973	0.003	7	109
Round Sector Frames	167.00	900	562,225	0.033	72	1,117
Kathrein 742 213	158.00	66	38,455	0.002	5	82
Ericsson KRY 112 144/1	148.00	33	17,709	0.001	2	41
Ericsson RRUS 11 B12	148.00	152	81,624	0.005	10	189
Ericsson AIR 21, 1.3 M, B2A B4P	148.00	249	133,626	0.008	17	309
Ericsson AIR 21, 1.3M, B4A B2P	148.00	244	131,211	0.008	17	304
Andrew LNX-6515DS-VTM	148.00	154	82,590	0.005	11	191
Round Sector Frame	148.00	900	482,985	0.028	62	1,117
Motorola PTP54600	125.00	24	10,501	0.001	1	30
Comprod 872F-70SM	125.00	21	9,113	0.001	1	26
GPS	102.00	20	6,720	0.000	1	25
Standoffs	102.00	150	50,402	0.003	6	186
Standoffs	78.00	75	17,984	0.001	2	93
12' Dipole	78.00	40	9,591	0.001	1	50
PCTEL GPS-TMG-HR-26N	76.00	1	139	0.000	0	1
Standoffs	76.00	75	17,406	0.001	2	93
		50,094	17,121,444	1.000	2,189	62,197

LoadCase (0.9 - 0.2Sds) * DL + E

Seismic (Reduced DL)

Section	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
10	188.00	1,099	796,781	0.047	102	943
9	170.00	2,202	1,406,86	0.082	180	1,890
8	150.00	3,213	1,753,38	0.102	224	2,758
7	130.00	3,908	1,781,40	0.104	228	3,354
6	110.00	4,044	1,494,17	0.087	191	3,471
5	90.00	4,523	1,298,42	0.076	166	3,883
4	70.00	4,817	1,007,97	0.059	129	4,135

Site Number: 302470

Code:

ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Equivalent Lateral Force Method

3	50.00	5,213	714,539	0.042	91	4,475
2	30.00	5,554	400,396	0.023	51	4,768
1	10.00	5,596	101,314	0.006	13	4,804
DragonWave Horizon Compact	194.00	21	15,991	0.001	2	18
KMW TTA (HB-X-WM-17-65-00T)	194.00	48	35,979	0.002	5	41
NextNet BTS-2500	194.00	105	79,199	0.005	10	90
KMW AM-X-WM-17-65-00T	194.00	43	32,132	0.002	4	37
Decibel DB844H90E-XY	194.00	84	63,359	0.004	8	72
Argus LLPX310R	194.00	86	64,717	0.004	8	74
DragonWave A-ANT-18G-2-C	194.00	54	40,882	0.002	5	47
EMS RR90-11-00DBL	194.00	36	27,154	0.002	3	31
Round Sector Frames	194.00	900	678,847	0.040	87	773
Alcatel-Lucent 800 MHz RRH	191.00	159	117,602	0.007	15	136
Alcatel-Lucent 1900 MHz 4x45 RRH	191.00	180	133,134	0.008	17	155
RRU	191.00	165	122,040	0.007	16	142
Andrew DB980H90E-M	187.00	51	36,730	0.002	5	44
RFS APXVSP18-C-A20	187.00	57	41,052	0.002	5	49
Powerwave Allgon P40-16-XLPP-RRR	187.00	128	92,186	0.005	12	110
Round Sector Frames	187.00	900	648,183	0.038	83	773
18" x 12" Junction Box	184.00	15	10,586	0.001	1	13
Alcatel-Lucent B13 RRH4x30-4R 700U	177.00	172	115,333	0.007	15	147
Alcatel-Lucent PCS B25 RRH2x60/4x30	177.00	165	110,897	0.006	14	142
Alcatel-Lucent B66 RRH4x45	177.00	201	135,092	0.008	17	173
RFS DB-T1-6Z-8AB-0Z	177.00	88	59,145	0.003	8	76
Antel BXA-80080/4CF	177.00	43	28,833	0.002	4	37
Swedcom SLCP 2x6014	177.00	20	13,442	0.001	2	17
Amphenol Antel BXA-70063-6BF-EDIN-X	177.00	19	12,904	0.001	2	16
Powerwave Allgon P65-16-XL-2	177.00	33	22,179	0.001	3	28
Andrew SBNHH-1D65B	177.00	304	204,453	0.012	26	261
Flat Light Sector Frames	177.00	1,200	806,521	0.047	103	1,030
Powerwave 7020.00 Dual Band RET	167.00	13	8,246	0.000	1	11
Powerwave TT19-08BP111-001	167.00	96	59,971	0.004	8	82
Raycap DC6-48-60-18-8F	167.00	64	39,731	0.002	5	55
Ericsson RRUS 11 (Band 12) (55 lb)	167.00	165	103,075	0.006	13	142
Ericsson RRUS 32 B2	167.00	159	99,326	0.006	13	136
Ericsson RRUS-32	167.00	231	144,304	0.008	18	198
Powerwave Allgon 7770.00	167.00	105	65,593	0.004	8	90
KMW AM-X-CD-16-65-00T-RET	167.00	146	90,893	0.005	12	125
Quintel QS66512-2	167.00	333	208,023	0.012	27	286
CCI OPA-65R-LCUU-H6	167.00	146	91,205	0.005	12	125
CCI OPA-65R-LCUU-H8	167.00	88	54,973	0.003	7	76
Round Sector Frames	167.00	900	562,225	0.033	72	773
Kathrein 742 213	158.00	66	38,455	0.002	5	57
Ericsson KRY 112 144/1	148.00	33	17,709	0.001	2	28
Ericsson RRUS 11 B12	148.00	152	81,624	0.005	10	131
Ericsson AIR 21, 1.3 M, B2A B4P	148.00	249	133,626	0.008	17	214
Ericsson AIR 21, 1.3M, B4A B2P	148.00	244	131,211	0.008	17	210
Andrew LNX-6515DS-VTM	148.00	154	82,590	0.005	11	132
Round Sector Frame	148.00	900	482,985	0.028	62	773
Motorola PTP54600	125.00	24	10,501	0.001	1	21
Comprod 872F-70SM	125.00	21	9,113	0.001	1	18
GPS	102.00	20	6,720	0.000	1	17
Standoffs	102.00	150	50,402	0.003	6	129
Standoffs	78.00	75	17,984	0.001	2	64
12' Dipole	78.00	40	9,591	0.001	1	34

Site Number: 302470

Code: ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Equivalent Lateral Force Method

PCTEL GPS-TMG-HR-26N	76.00	1	139	0.000	0	1
Standoffs	76.00	75	17,406	0.001	2	64
		50,094	17,121,443	1.000	2,189	43,001

Site Number: 302470

Code: ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Equivalent Modal Analysis Method

(Based on ASCE7-10 Chapters 11, 12 & 15 and ANSI/TIA-G, section 2.7)

Spectral Response Acceleration for Short Period (S_{s1}):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_{s1}):	0.06
Importance Factor (I_p):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.21
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Period Based on Rayleigh Method (sec):	1.02
Redundancy Factor (ρ):	1.30

LoadCase (1.2 + 0.2Sds) * DL + E

Seismic

Section	Height Above Base (ft)	Weight (lb)	a	b	c	S_{az}	Horizontal Force (lb)	Vertical Force (lb)
10	188.00	1,099	1.739	1.275	0.876	0.332	158	1,364
9	170.00	2,202	1.422	0.326	0.455	0.165	158	2,734
8	150.00	3,213	1.107	-0.066	0.191	0.062	86	3,989
7	130.00	3,908	0.831	-0.117	0.063	0.030	51	4,852
6	110.00	4,044	0.595	-0.051	0.014	0.037	65	5,021
5	90.00	4,523	0.399	0.019	0.007	0.047	93	5,616
4	70.00	4,817	0.241	0.057	0.018	0.047	98	5,980
3	50.00	5,213	0.123	0.070	0.034	0.040	89	6,473
2	30.00	5,554	0.044	0.071	0.042	0.032	77	6,896
1	10.00	5,596	0.005	0.044	0.025	0.019	45	6,948
DragonWave Horizon Compact	194.00	21	1.852	1.784	1.069	0.404	4	26
KMW TTA (HB-X-WM-17-65-00T)	194.00	48	1.852	1.784	1.069	0.404	8	59
NextNet BTS-2500	194.00	105	1.852	1.784	1.069	0.404	18	130
KMW AM-X-WM-17-65-00T	194.00	43	1.852	1.784	1.069	0.404	7	53
Decibel DB844H90E-XY	194.00	84	1.852	1.784	1.069	0.404	15	104
Argus LLPX310R	194.00	86	1.852	1.784	1.069	0.404	15	107
DragonWave A-ANT-18G-2-C	194.00	54	1.852	1.784	1.069	0.404	9	67
EMS RR90-11-00DBL	194.00	36	1.852	1.784	1.069	0.404	6	45
Round Sector Frames	194.00	900	1.852	1.784	1.069	0.404	158	1,117
Alcatel-Lucent 800 MHz RRH	191.00	159	1.795	1.515	0.968	0.367	25	197
Alcatel-Lucent 1900 MHz 4x45 RRU	191.00	180	1.795	1.515	0.968	0.367	29	223
RRU	191.00	165	1.795	1.515	0.968	0.367	26	205
Andrew DB980H90E-M	187.00	51	1.720	1.201	0.846	0.321	7	63
RFS APXVSP18-C-A20	187.00	57	1.720	1.201	0.846	0.321	8	71
Powerwave Allgon P40-16-XLPP-	187.00	128	1.720	1.201	0.846	0.321	18	159
Round Sector Frames	187.00	900	1.720	1.201	0.846	0.321	125	1,117
18" x 12" Junction Box	184.00	15	1.666	0.996	0.763	0.289	2	19
Alcatel-Lucent B13 RRH4x30-4R	177.00	172	1.541	0.608	0.593	0.222	16	213
Alcatel-Lucent PCS B25	177.00	165	1.541	0.608	0.593	0.222	16	205
Alcatel-Lucent B66 RRH4x45	177.00	201	1.541	0.608	0.593	0.222	19	250
RFS DB-T1-6Z-8AB-0Z	177.00	88	1.541	0.608	0.593	0.222	8	109
Antel BXA-80080/4CF	177.00	43	1.541	0.608	0.593	0.222	4	53
Swedcom SLCP 2x6014	177.00	20	1.541	0.608	0.593	0.222	2	25
Amphenol Antel BXA-70063-6BF-	177.00	19	1.541	0.608	0.593	0.222	2	24
Powerwave Allgon P65-16-XL-2	177.00	33	1.541	0.608	0.593	0.222	3	41
Andrew SBNHH-1D65B	177.00	304	1.541	0.608	0.593	0.222	29	378
Flat Light Sector Frames	177.00	1,200	1.541	0.608	0.593	0.222	115	1,490
Powerwave 7020.00 Dual Band	167.00	13	1.372	0.233	0.404	0.145	1	16

Site Number: 302470

Code:

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Equivalent Modal Analysis Method

Powerwave TT19-08BP111-001	167.00	96	1.372	0.233	0.404	0.145	6	119
Raycap DC6-48-60-18-8F	167.00	64	1.372	0.233	0.404	0.145	4	79
Ericsson RRUS 11 (Band 12) (55	167.00	165	1.372	0.233	0.404	0.145	10	205
Ericsson RRUS 32 B2	167.00	159	1.372	0.233	0.404	0.145	10	197
Ericsson RRUS-32	167.00	231	1.372	0.233	0.404	0.145	14	287
Powerwave Allgon 7770.00	167.00	105	1.372	0.233	0.404	0.145	7	130
KMW AM-X-CD-16-65-00T-RET	167.00	146	1.372	0.233	0.404	0.145	9	181
Quintel QS66512-2	167.00	333	1.372	0.233	0.404	0.145	21	413
CCI OPA-65R-LCUU-H6	167.00	146	1.372	0.233	0.404	0.145	9	181
CCI OPA-65R-LCUU-H8	167.00	88	1.372	0.233	0.404	0.145	6	109
Round Sector Frames	167.00	900	1.372	0.233	0.404	0.145	56	1,117
Kathrein 742 213	158.00	66	1.228	0.033	0.276	0.094	3	82
Ericsson KRY 112 144/1	148.00	33	1.078	-0.082	0.173	0.056	1	41
Ericsson RRUS 11 B12	148.00	152	1.078	-0.082	0.173	0.056	4	189
Ericsson AIR 21, 1.3 M, B2A B4P	148.00	249	1.078	-0.082	0.173	0.056	6	309
Ericsson AIR 21, 1.3M, B4A B2P	148.00	244	1.078	-0.082	0.173	0.056	6	304
Andrew LNX-6515DS-VTM	148.00	154	1.078	-0.082	0.173	0.056	4	191
Round Sector Frame	148.00	900	1.078	-0.082	0.173	0.056	22	1,117
Motorola PTP54600	125.00	24	0.769	-0.105	0.045	0.030	0	30
Comprod 872F-70SM	125.00	21	0.769	-0.105	0.045	0.030	0	26
GPS	102.00	20	0.512	-0.020	0.008	0.042	0	25
Standoffs	102.00	150	0.512	-0.020	0.008	0.042	3	186
Standoffs	78.00	75	0.299	0.045	0.012	0.048	2	93
12' Dipole	78.00	40	0.299	0.045	0.012	0.048	1	50
PCTEL GPS-TMG-HR-26N	76.00	1	0.284	0.049	0.014	0.048	0	1
Standoffs	76.00	75	0.284	0.049	0.014	0.048	2	93
		50,094	80.403	36.384	30.646	11.842	1,823	62,197

LoadCase (0.9 - 0.2Sds) * DL + E

Seismic (Reduced DL)

Section	Height Above Base (ft)	Weight (lb)	Seismic (Reduced DL)				Horizontal Force (lb)	Vertical Force (lb)
			a	b	c	S _{az}		
10	188.00	1,099	1.739	1.275	0.876	0.332	158	943
9	170.00	2,202	1.422	0.326	0.455	0.165	158	1,890
8	150.00	3,213	1.107	-0.066	0.191	0.062	86	2,758
7	130.00	3,908	0.831	-0.117	0.063	0.030	51	3,354
6	110.00	4,044	0.595	-0.051	0.014	0.037	65	3,471
5	90.00	4,523	0.399	0.019	0.007	0.047	93	3,883
4	70.00	4,817	0.241	0.057	0.018	0.047	98	4,135
3	50.00	5,213	0.123	0.070	0.034	0.040	89	4,475
2	30.00	5,554	0.044	0.071	0.042	0.032	77	4,768
1	10.00	5,596	0.005	0.044	0.025	0.019	45	4,804
DragonWave Horizon Compact	194.00	21	1.852	1.784	1.069	0.404	4	18
KMW TTA (HB-X-WM-17-65-00T)	194.00	48	1.852	1.784	1.069	0.404	8	41
NextNet BTS-2500	194.00	105	1.852	1.784	1.069	0.404	18	90
KMW AM-X-WM-17-65-00T	194.00	43	1.852	1.784	1.069	0.404	7	37
Decibel DB844H90E-XY	194.00	84	1.852	1.784	1.069	0.404	15	72
Argus LLPX310R	194.00	86	1.852	1.784	1.069	0.404	15	74
DragonWave A-ANT-18G-2-C	194.00	54	1.852	1.784	1.069	0.404	9	47
EMS RR90-11-00DBL	194.00	36	1.852	1.784	1.069	0.404	6	31
Round Sector Frames	194.00	900	1.852	1.784	1.069	0.404	158	773
Alcatel-Lucent 800 MHz RRH	191.00	159	1.795	1.515	0.968	0.367	25	136
Alcatel-Lucent 1900 MHz 4x45	191.00	180	1.795	1.515	0.968	0.367	29	155
RRU	191.00	165	1.795	1.515	0.968	0.367	26	142
Andrew DB980H90E-M	187.00	51	1.720	1.201	0.846	0.321	7	44
RFS APXVSP18-C-A20	187.00	57	1.720	1.201	0.846	0.321	8	49
Powerwave Allgon P40-16-XLPP-	187.00	128	1.720	1.201	0.846	0.321	18	110
Round Sector Frames	187.00	900	1.720	1.201	0.846	0.321	125	773
18" x 12" Junction Box	184.00	15	1.666	0.996	0.763	0.289	2	13
Alcatel-Lucent B13 RRH4x30-4R	177.00	172	1.541	0.608	0.593	0.222	16	147
Alcatel-Lucent PCS B25	177.00	165	1.541	0.608	0.593	0.222	16	142
Alcatel-Lucent B66 RRH4x45	177.00	201	1.541	0.608	0.593	0.222	19	173
RFS DB-T1-6Z-8AB-0Z	177.00	88	1.541	0.608	0.593	0.222	8	76

Site Number: 302470

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Equivalent Modal Analysis Method

Antel BXA-80080/4CF	177.00	43	1.541	0.608	0.593	0.222	4	37
Swedcom SLCP 2x6014	177.00	20	1.541	0.608	0.593	0.222	2	17
Amphenol Antel BXA-70063-6BF-	177.00	19	1.541	0.608	0.593	0.222	2	16
Powerwave Allgon P65-16-XL-2	177.00	33	1.541	0.608	0.593	0.222	3	28
Andrew SBNHH-1D65B	177.00	304	1.541	0.608	0.593	0.222	29	261
Flat Light Sector Frames	177.00	1,200	1.541	0.608	0.593	0.222	115	1,030
Powerwave 7020.00 Dual Band	167.00	13	1.372	0.233	0.404	0.145	1	11
Powerwave TT19-08BP111-001	167.00	96	1.372	0.233	0.404	0.145	6	82
Raycap DC6-48-60-18-8F	167.00	64	1.372	0.233	0.404	0.145	4	55
Ericsson RRUS 11 (Band 12) (55	167.00	165	1.372	0.233	0.404	0.145	10	142
Ericsson RRUS 32 B2	167.00	159	1.372	0.233	0.404	0.145	10	136
Ericsson RRUS-32	167.00	231	1.372	0.233	0.404	0.145	14	198
Powerwave Allgon 7770.00	167.00	105	1.372	0.233	0.404	0.145	7	90
KMW AM-X-CD-16-65-00T-RET	167.00	146	1.372	0.233	0.404	0.145	9	125
Quintel QS66512-2	167.00	333	1.372	0.233	0.404	0.145	21	286
CCI OPA-65R-LCUU-H6	167.00	146	1.372	0.233	0.404	0.145	9	125
CCI OPA-65R-LCUU-H8	167.00	88	1.372	0.233	0.404	0.145	6	76
Round Sector Frames	167.00	900	1.372	0.233	0.404	0.145	56	773
Kathrein 742 213	158.00	66	1.228	0.033	0.276	0.094	3	57
Ericsson KRY 112 144/1	148.00	33	1.078	-0.082	0.173	0.056	1	28
Ericsson RRUS 11 B12	148.00	152	1.078	-0.082	0.173	0.056	4	131
Ericsson AIR 21, 1.3 M, B2A B4P	148.00	249	1.078	-0.082	0.173	0.056	6	214
Ericsson AIR 21, 1.3M, B4A B2P	148.00	244	1.078	-0.082	0.173	0.056	6	210
Andrew LNX-6515DS-VTM	148.00	154	1.078	-0.082	0.173	0.056	4	132
Round Sector Frame	148.00	900	1.078	-0.082	0.173	0.056	22	773
Motorola PTP54600	125.00	24	0.769	-0.105	0.045	0.030	0	21
Comprod 872F-70SM	125.00	21	0.769	-0.105	0.045	0.030	0	18
GPS	102.00	20	0.512	-0.020	0.008	0.042	0	17
Standoffs	102.00	150	0.512	-0.020	0.008	0.042	3	129
Standoffs	78.00	75	0.299	0.045	0.012	0.048	2	64
12' Dipole	78.00	40	0.299	0.045	0.012	0.048	1	34
PCTEL GPS-TMG-HR-26N	76.00	1	0.284	0.049	0.014	0.048	0	1
Standoffs	76.00	75	0.284	0.049	0.014	0.048	2	64
		50,094	80.403	36.384	30.646	11.842	1,823	43,001

Site Number: 302470

Code: ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Force/Stress Summary

Section: 1		15N25		Bot Elev (ft): 0.00				Height (ft): 20.000							
		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
Max Compression Member															
LEG	PX - 8" DIA PIPE	-371.96	1.2D + 1.6W	9.77	100	100	100	40.7	50.0	510.32	0	0	0.00	0.00	72 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 4X4X0.25	-12.03	1.2D + 1.6W 90	23.62	48	48	48	171.1	43.5	14.96	1	1	17.89	23.40	80 Member Z
Max Tension Member															
		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls			
LEG	PX - 8" DIA PIPE	334.54	0.9D + 1.6W 60	50	65	576.00	0	0	0.00	0.00	58	Member			
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0				
DIAG	SAE - 4X4X0.25	11.83	1.2D + 1.6W 90	50	65	62.93	1	1	17.89	14.14	83	Bolt Bear			
Max Splice Forces															
		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type								
Top Tension		303.98	0.9D + 1.6W 180	0.00	0	0									
Top Compression		347.04	1.2D + 1.6W	0.00	0										
Bot Tension		334.60	0.9D + 1.6W 180	605.70	66	10	1" A354-BC								
Bot Compression		381.68	1.2D + 1.6W	0.00	0										

Section: 2		14N46		Bot Elev (ft): 20.00				Height (ft): 20.000							
		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
Max Compression Member															
LEG	PSP - ROHN 8 EHS	-335.93	1.2D + 1.6W	9.77	100	100	100	40.1	50.0	388.80	0	0	0.00	0.00	86 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 4X4X0.25	-11.60	1.2D + 1.6W 90	22.69	48	48	48	164.4	43.5	16.22	1	1	17.89	23.40	71 Member Z
Max Tension Member															
		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls			
LEG	PSP - ROHN 8 EHS	304.25	0.9D + 1.6W 60	50	65	437.40	0	0	0.00	0.00	69	Member			
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0				
DIAG	SAE - 4X4X0.25	11.42	1.2D + 1.6W 90	50	65	62.93	1	1	17.89	14.14	80	Bolt Bear			
Max Splice Forces															
		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type								
Top Tension		270.92	0.9D + 1.6W 180	0.00	0	0									
Top Compression		308.64	1.2D + 1.6W	0.00	0										
Bot Tension		303.98	0.9D + 1.6W 180	436.16	70	8	1 A325								
Bot Compression		347.04	1.2D + 1.6W	0.00	0										

Site Number: 302470

Code: ANSI/TIA-222-G

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Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Force/Stress Summary

Section: 3		13N88		Bot Elev (ft): 40.00				Height (ft): 20.000				Shear		Bear		Use	
		Pu	Len	Bracing %			F'y	Phic	Pn	Num	Num	phiRnv	phiRn	Use			
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls	
LEG	PSP - ROHN 8 EHS	-298.02	1.2D + 1.6W	9.77	100	100	100	40.1	50.0	388.78	0	0	0.00	0.00	76	Member X	
	HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0		
DIAG	SAE - 3.5X3.5X0.25	-10.47	1.2D + 1.6W 90	20.87	48	48	48	174.8	50.0	12.50	1	1	17.89	23.40	83	Member Z	

Max Tension Member		Pu	Load Case	Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Use		
		(kip)		(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	phiRn	%	Controls	
										(kip)	(kip)			
LEG	PSP - ROHN 8 EHS	271.30	0.9D + 1.6W 60	50	65	437.40	0	0		0.00	0.00	62	Member	
	HORIZ	0.00		0	0	0.00	0	0		0.00	0.00	0		
DIAG	SAE - 3.5X3.5X0.25	10.33	0.9D + 1.6W 90	50	65	53.79	1	1		17.89	14.14	73	Bolt Bear	

Max Splice Forces		Pu	Load Case	phiRnt	Use	Num	Bolt Type	
		(kip)		(kip)	%	Bolts		
Top Tension		238.31	0.9D + 1.6W 180	0.00	0	0		
Top Compression		270.81	1.2D + 1.6W	0.00	0			
Bot Tension		270.92	0.9D + 1.6W 180	436.16	62	8	1 A325	
Bot Compression		308.64	1.2D + 1.6W	0.00	0			

Section: 4		12N50		Bot Elev (ft): 60.00				Height (ft): 20.000				Shear		Bear		Use	
		Pu	Len	Bracing %			F'y	Phic	Pn	Num	Num	phiRnv	phiRn	Use			
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls	
LEG	PX - 6" DIA PIPE	-259.71	1.2D + 1.6W	9.77	100	100	100	53.4	50.0	306.88	0	0	0.00	0.00	84	Member X	
	HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0		
DIAG	SAE - 3.5X3.5X0.25	-10.15	1.2D + 1.6W 90	19.04	48	48	48	159.4	50.0	15.02	1	1	17.89	23.40	67	Member Z	

Max Tension Member		Pu	Load Case	Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Use		
		(kip)		(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	phiRn	%	Controls	
										(kip)	(kip)			
LEG	PX - 6" DIA PIPE	238.58	0.9D + 1.6W 60	50	65	378.00	0	0		0.00	0.00	63	Member	
	HORIZ	0.00		0	0	0.00	0	0		0.00	0.00	0		
DIAG	SAE - 3.5X3.5X0.25	10.10	1.2D + 1.6W 90	50	65	53.79	1	1		17.89	14.14	71	Bolt Bear	

Max Splice Forces		Pu	Load Case	phiRnt	Use	Num	Bolt Type	
		(kip)		(kip)	%	Bolts		
Top Tension		203.16	0.9D + 1.6W 180	0.00	0	0		
Top Compression		230.56	1.2D + 1.6W	0.00	0			
Bot Tension		238.31	0.9D + 1.6W 180	436.16	55	8	1 A325	
Bot Compression		270.81	1.2D + 1.6W	0.00	0			

Site Number: 302470

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Customer: AT&T Mobility

Force/Stress Summary

Section: 5		11N223		Bot Elev (ft): 80.00				Height (ft): 20.000							
		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
Max Compression Member															
LEG	PSP - ROHN 6 EHS	-222.12	1.2D + 1.6W	6.51	100	100	100	35.1	50.0	275.92	0	0	0.00	0.00	80 Member X
	HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3X3X0.25	-9.16	1.2D + 1.6W 90	15.90	48	48	48	154.7	50.0	13.59	1	1	17.89	23.40	67 Member Z
Max Tension Member															
LEG	PSP - ROHN 6 EHS	203.42	0.9D + 1.6W 60	50	65	301.95	0	0	0.00	0.00	0	0	0.00	67	Member
	HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0	0	0.00	0	
DIAG	SAE - 3X3X0.25	9.00	1.2D + 1.6W 90	50	65	44.65	1	1	17.89	14.14	63			Bolt Bear	
Max Splice Forces															
		Pu (kip)	Load Case		phiRnt (kip)	Use %	Num Bolts	Bolt Type							
	Top Tension	165.72	0.9D + 1.6W 180		0.00	0	0								
	Top Compression	188.25	1.2D + 1.6W		0.00	0									
	Bot Tension	203.16	0.9D + 1.6W 180		327.12	62	6	1 A325							
	Bot Compression	230.56	1.2D + 1.6W		0.00	0									

Section: 6		10N152		Bot Elev (ft): 100.0				Height (ft): 20.000							
		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
Max Compression Member															
LEG	PX - 5" DIA PIPE	-180.49	1.2D + 1.6W	6.51	100	100	100	42.5	50.0	240.98	0	0	0.00	0.00	74 Member X
	HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 2.5X2.5X0.25	-7.69	1.2D + 1.6W 90	14.13	48	48	48	165.8	36.0	9.77	1	1	12.43	17.40	78 Member Z
Max Tension Member															
LEG	PX - 5" DIA PIPE	166.00	0.9D + 1.6W 60	50	65	274.95	0	0	0.00	0.00	60			Member	
	HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0	0	0.00	0	
DIAG	SAE - 2.5X2.5X0.25	7.75	1.2D + 1.6W 90	36	58	32.71	1	1	12.43	10.44	74			Bolt Bear	
Max Splice Forces															
		Pu (kip)	Load Case		phiRnt (kip)	Use %	Num Bolts	Bolt Type							
	Top Tension	129.43	0.9D + 1.6W 180		0.00	0	0								
	Top Compression	147.66	1.2D + 1.6W		0.00	0									
	Bot Tension	165.72	0.9D + 1.6W 180		327.12	51	6	1 A325							
	Bot Compression	188.25	1.2D + 1.6W		0.00	0									

Site Number: 302470

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Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Force/Stress Summary

Section: 7		9N216		Bot Elev (ft): 120.0				Height (ft): 20.000				Shear		Bear		
		Pu	Len	Bracing %			F'y	Phic	Pn	Num	Num	phiRnv	phiRn	Use		
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	PX - 5" DIA PIPE	-139.34	1.2D + 1.6W	6.51	100	100	100	42.5	50.0	240.99	0	0	0.00	0.00	57	Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 2.5X2.5X0.25	-7.62	1.2D + 1.6W 90	11.25	48	48	48	132.0	36.0	15.41	1	1	12.43	17.40	61	Bolt Shear

Max Tension Member		Pu	Load Case	Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Use		
		(kip)		(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	phiRn	%	Controls	
										(kip)	(kip)			
LEG	PX - 5" DIA PIPE	129.62	0.9D + 1.6W 60	50	65	274.95	0	0		0.00	0.00	47	Member	
HORIZ		0.00		0	0	0.00	0	0		0.00	0.00	0		
DIAG	SAE - 2.5X2.5X0.25	7.44	1.2D + 1.6W 90	36	58	32.71	1	1		12.43	10.44	71	Bolt Bear	

Max Splice Forces		Pu	Load Case	phiRnt	Use	Num		
		(kip)		(kip)	%	Bolts	Bolt Type	
Top Tension		89.43	0.9D + 1.6W 180	0.00	0	0		
Top Compression		103.61	1.2D + 1.6W	0.00	0			
Bot Tension		129.43	0.9D + 1.6W 180	218.08	59	4	1 A325	
Bot Compression		147.66	1.2D + 1.6W	0.00	0			

Section: 8		A780252		Bot Elev (ft): 140.0				Height (ft): 20.000				Shear		Bear		
		Pu	Len	Bracing %			F'y	Phic	Pn	Num	Num	phiRnv	phiRn	Use		
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	PX - 4" DIA PIPE	-97.32	1.2D + 1.6W	4.88	100	100	100	39.6	50.0	176.95	0	0	0.00	0.00	54	Member X
HORIZ	SAE - 2X2X0.125	-0.40	1.2D + 1.6W 60	6.760	100	100	100	203.8	36.0	2.61	1	1	12.43	8.70	15	Member Z
DIAG	SAE - 2X2X0.25	-6.09	1.2D + 1.6W 90	9.848	48	48	48	145.1	36.0	10.09	1	1	12.43	17.40	60	Member Z

Max Tension Member		Pu	Load Case	Fy	Fu	Phit	Pn	Num	Num	Shear	Bear	Use		
		(kip)		(ksi)	(ksi)	(kip)	Bolts	Holes		phiRnv	phiRn	%	Controls	
										(kip)	(kip)			
LEG	PX - 4" DIA PIPE	89.65	0.9D + 1.6W 60	50	65	198.45	0	0		0.00	0.00	45	Member	
HORIZ	SAE - 2X2X0.125	0.29	1.2D + 1.6W	36	58	12.60	1	1		12.43	5.22	5	Bolt Bear	
DIAG	SAE - 2X2X0.25	6.09	1.2D + 1.6W 90	36	58	24.55	1	1		12.43	10.44	58	Bolt Bear	

Max Splice Forces		Pu	Load Case	phiRnt	Use	Num		
		(kip)		(kip)	%	Bolts	Bolt Type	
Top Tension		49.11	0.9D + 1.6W 60	0.00	0	0		
Top Compression		58.47	1.2D + 1.6W 120	0.00	0			
Bot Tension		89.43	0.9D + 1.6W 180	218.08	41	4	1 A325	
Bot Compression		103.61	1.2D + 1.6W	0.00	0			

Site Number: 302470

Code: ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

1/12/2017 4:08:24 PM

Customer: AT&T Mobility

Force/Stress Summary

Section: 9		A780178		Bot Elev (ft): 160.0				Height (ft): 20.000				Shear		Bear		Use	
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn Num Bolts	Num Holes	phiRnv (kip)	phiRn (kip)	Use %	Controls		
LEG	PX - 3" DIA PIPE	-51.92	1.2D + 1.6W	3.90	100	100	100	41.1	50.0	120.14	0	0	0.00	0.00	43	Member X	
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0		
DIAG	SAE - 2X2X0.1875	-6.41	1.2D + 1.6W 90	7.798	48	48	48	115.5	36.0	11.48	2	1	24.86	26.10	55	Member Z	

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls	
LEG	PX - 3" DIA PIPE	47.92	1.2D + 1.6W 60	50	65	135.90	0	0	0.00	0.00	35	Member	
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0		
DIAG	SAE - 2X2X0.1875	6.31	1.2D + 1.6W 90	36	58	18.74	2	1	24.86	20.88	33	Member	

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		9.27	0.9D + 1.6W 180	0.00	0	0	
Top Compression		12.57	1.2D + 1.6W	0.00	0		
Bot Tension		49.11	0.9D + 1.6W 60	166.24	30	4	7/8 A325
Bot Compression		58.47	1.2D + 1.6W 120	0.00	0		

Section: 10		A780178		Bot Elev (ft): 180.0				Height (ft): 16.000				Shear		Bear		Use	
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn Num Bolts	Num Holes	phiRnv (kip)	phiRn (kip)	Use %	Controls		
LEG	PST - 2-1/2" DIA PIP	-12.45	1.2D + 1.6W	0.25	100	100	100	3.2	50.0	76.62	0	0	0.00	0.00	16	Member X	
HORIZ	SAE - 2X2X0.125	-0.17	1.2D + 1.6W	6.647	100	100	100	200.4	36.0	2.70	1	1	12.43	8.70	6	Member Z	
DIAG	SAE - 1.75X1.75X0.18	-2.44	1.2D + 1.6W 90	7.758	48	48	48	130.3	36.0	8.23	1	1	12.43	13.05	29	Member Z	

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls	
LEG	PST - 2-1/2" DIA PIP	9.36	0.9D + 1.6W 60	50	65	76.68	0	0	0.00	0.00	12	Member	
HORIZ	SAE - 2X2X0.125	0.16	1.2D + 1.6W 60	36	58	12.60	1	1	12.43	5.22	3	Bolt Bear	
DIAG	SAE - 1.75X1.75X0.18	2.43	1.2D + 1.6W 90	36	58	15.67	1	1	12.43	7.83	31	Bolt Bear	

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		0.00		0.00	0	0	
Top Compression		0.35	1.2D + 1.0Di +	0.00	0		
Bot Tension		9.27	0.9D + 1.6W 180	120.40	8	4	3/4 A325
Bot Compression		12.57	1.2D + 1.6W	0.00	0		

Force/Stress Summary

Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
97 mph Normal to Face with No Ice	79.75	0.308	0.0168	0.4937	0.4937
97 mph Normal to Face with No Ice	100.25	0.493	0.0218	0.6334	0.6334
97 mph Normal to Face with No Ice	126.75	0.807	0.0265	0.7567	0.7572
97 mph Normal to Face with No Ice	150.00	1.150	0.0304	0.9380	0.9380
97 mph Normal to Face with No Ice	159.75	1.314	0.0335	1.0861	1.0861
97 mph Normal to Face with No Ice	168.05	1.465	0.0339	1.0618	1.0623
97 mph Normal to Face with No Ice	175.85	1.610	0.0342	1.0713	1.0719
97 mph Normal to Face with No Ice	184.19	1.769	0.0342	1.0807	1.0812
97 mph Normal to Face with No Ice	188.13	1.844	0.0340	1.1014	1.1014
97 mph Normal to Face with No Ice	192.06	1.920	0.0341	1.0888	1.0893
97 mph 60 degree with No Ice	79.75	0.298	-0.0251	0.4751	0.4751
97 mph 60 degree with No Ice	100.25	0.477	-0.0303	0.6135	0.6135
97 mph 60 degree with No Ice	126.75	0.783	-0.0347	0.7351	0.7358
97 mph 60 degree with No Ice	150.00	1.117	-0.0386	0.9118	0.9118
97 mph 60 degree with No Ice	159.75	1.276	-0.0421	1.0574	1.0574
97 mph 60 degree with No Ice	168.05	1.422	-0.0419	1.0331	1.0335
97 mph 60 degree with No Ice	175.85	1.564	-0.0417	1.0422	1.0430
97 mph 60 degree with No Ice	184.19	1.719	-0.0416	1.0520	1.0528
97 mph 60 degree with No Ice	188.13	1.792	-0.0418	1.0725	1.0725
97 mph 60 degree with No Ice	192.06	1.865	-0.0418	1.0594	1.0602
97 mph 90 degree with No Ice	79.75	0.300	-0.0296	0.4727	0.4729
97 mph 90 degree with No Ice	100.25	0.481	-0.0356	0.6117	0.6119
97 mph 90 degree with No Ice	126.75	0.788	-0.0408	0.7407	0.7418
97 mph 90 degree with No Ice	150.00	1.125	-0.0452	0.9151	0.9154
97 mph 90 degree with No Ice	159.75	1.285	-0.0489	1.0537	1.0540
97 mph 90 degree with No Ice	168.05	1.433	-0.0490	1.0401	1.0412
97 mph 90 degree with No Ice	175.85	1.575	-0.0490	1.0551	1.0562
97 mph 90 degree with No Ice	184.19	1.731	-0.0490	1.0641	1.0653
97 mph 90 degree with No Ice	188.13	1.805	-0.0490	1.0790	1.0793
97 mph 90 degree with No Ice	192.06	1.878	-0.0490	1.0676	1.0688
97 mph 120 degree with No Ice	79.75	0.308	-0.0265	0.4904	0.4904
97 mph 120 degree with No Ice	100.25	0.492	-0.0318	0.6334	0.6334
97 mph 120 degree with No Ice	126.75	0.807	-0.0365	0.7564	0.7570
97 mph 120 degree with No Ice	150.00	1.150	-0.0402	0.9379	0.9379
97 mph 120 degree with No Ice	159.75	1.314	-0.0431	1.0860	1.0860
97 mph 120 degree with No Ice	168.05	1.465	-0.0435	1.0617	1.0625
97 mph 120 degree with No Ice	175.85	1.610	-0.0437	1.0712	1.0721
97 mph 120 degree with No Ice	184.19	1.769	-0.0437	1.0806	1.0815
97 mph 120 degree with No Ice	188.13	1.844	-0.0435	1.1013	1.1013
97 mph 120 degree with No Ice	192.06	1.919	-0.0436	1.0887	1.0896
97 mph 180 degree with No Ice	79.75	0.298	0.0167	0.4784	0.4784
97 mph 180 degree with No Ice	100.25	0.478	0.0217	0.6135	0.6135
97 mph 180 degree with No Ice	126.75	0.783	0.0260	0.7355	0.7360
97 mph 180 degree with No Ice	150.00	1.117	0.0301	0.9119	0.9119
97 mph 180 degree with No Ice	159.75	1.276	0.0338	1.0575	1.0575
97 mph 180 degree with No Ice	168.05	1.423	0.0337	1.0332	1.0333
97 mph 180 degree with No Ice	175.85	1.564	0.0335	1.0423	1.0428
97 mph 180 degree with No Ice	184.19	1.719	0.0335	1.0521	1.0526
97 mph 180 degree with No Ice	188.13	1.792	0.0337	1.0726	1.0726
97 mph 180 degree with No Ice	192.06	1.865	0.0336	1.0595	1.0600
97 mph 210 degree with No Ice	79.75	0.300	0.0152	0.4762	0.4763
97 mph 210 degree with No Ice	100.25	0.481	0.0182	0.6119	0.6120

Force/Stress Summary

97 mph 210 degree with No Ice	126.75	0.789	0.0209	0.7413	0.7420
97 mph 210 degree with No Ice	150.00	1.125	0.0229	0.9154	0.9156
97 mph 210 degree with No Ice	159.75	1.285	0.0244	1.0539	1.0542
97 mph 210 degree with No Ice	168.05	1.433	0.0248	1.0401	1.0409
97 mph 210 degree with No Ice	175.85	1.576	0.0249	1.0552	1.0559
97 mph 210 degree with No Ice	184.19	1.731	0.0250	1.0642	1.0650
97 mph 210 degree with No Ice	188.13	1.805	0.0248	1.0791	1.0793
97 mph 210 degree with No Ice	192.06	1.878	0.0248	1.0677	1.0685
97 mph 240 degree with No Ice	79.75	0.308	0.0265	0.4904	0.4904
97 mph 240 degree with No Ice	100.25	0.492	0.0318	0.6334	0.6334
97 mph 240 degree with No Ice	126.75	0.807	0.0365	0.7564	0.7570
97 mph 240 degree with No Ice	150.00	1.150	0.0402	0.9379	0.9379
97 mph 240 degree with No Ice	159.75	1.314	0.0431	1.0860	1.0860
97 mph 240 degree with No Ice	168.05	1.465	0.0435	1.0617	1.0625
97 mph 240 degree with No Ice	175.85	1.610	0.0437	1.0712	1.0721
97 mph 240 degree with No Ice	184.19	1.769	0.0437	1.0806	1.0815
97 mph 240 degree with No Ice	188.13	1.844	0.0435	1.1013	1.1013
97 mph 240 degree with No Ice	192.06	1.919	0.0436	1.0887	1.0896
97 mph 300 degree with No Ice	79.75	0.298	0.0251	0.4751	0.4751
97 mph 300 degree with No Ice	100.25	0.477	0.0303	0.6135	0.6135
97 mph 300 degree with No Ice	126.75	0.783	0.0347	0.7351	0.7358
97 mph 300 degree with No Ice	150.00	1.117	0.0386	0.9118	0.9118
97 mph 300 degree with No Ice	159.75	1.276	0.0421	1.0574	1.0574
97 mph 300 degree with No Ice	168.05	1.422	0.0419	1.0331	1.0335
97 mph 300 degree with No Ice	175.85	1.564	0.0417	1.0422	1.0430
97 mph 300 degree with No Ice	184.19	1.719	0.0416	1.0520	1.0528
97 mph 300 degree with No Ice	188.13	1.792	0.0418	1.0725	1.0725
97 mph 300 degree with No Ice	192.06	1.865	0.0418	1.0594	1.0602
97 mph 330 degree with No Ice	79.75	0.300	0.0144	0.4762	0.4763
97 mph 330 degree with No Ice	100.25	0.481	0.0175	0.6117	0.6119
97 mph 330 degree with No Ice	126.75	0.789	0.0200	0.7412	0.7420
97 mph 330 degree with No Ice	150.00	1.125	0.0223	0.9152	0.9155
97 mph 330 degree with No Ice	159.75	1.285	0.0245	1.0540	1.0541
97 mph 330 degree with No Ice	168.05	1.433	0.0242	1.0401	1.0410
97 mph 330 degree with No Ice	175.85	1.576	0.0240	1.0552	1.0560
97 mph 330 degree with No Ice	184.19	1.731	0.0240	1.0642	1.0650
97 mph 330 degree with No Ice	188.13	1.805	0.0242	1.0791	1.0792
97 mph 330 degree with No Ice	192.06	1.878	0.0241	1.0677	1.0685
97 mph Normal to Face with No Ice (Reduced DL)	79.75	0.307	0.0168	0.4931	0.4931
97 mph Normal to Face with No Ice (Reduced DL)	100.25	0.492	0.0218	0.6321	0.6321
97 mph Normal to Face with No Ice (Reduced DL)	126.75	0.805	0.0264	0.7549	0.7554
97 mph Normal to Face with No Ice (Reduced DL)	150.00	1.148	0.0303	0.9355	0.9355
97 mph Normal to Face with No Ice (Reduced DL)	159.75	1.311	0.0334	1.0834	1.0834
97 mph Normal to Face with No Ice (Reduced DL)	168.05	1.461	0.0338	1.0588	1.0593
97 mph Normal to Face with No Ice (Reduced DL)	175.85	1.607	0.0340	1.0683	1.0689
97 mph Normal to Face with No Ice (Reduced DL)	184.19	1.765	0.0341	1.0777	1.0783
97 mph Normal to Face with No Ice (Reduced DL)	188.13	1.840	0.0339	1.0984	1.0984
97 mph Normal to Face with No Ice (Reduced DL)	192.06	1.915	0.0340	1.0858	1.0863
97 mph 60 deg with No Ice (Reduced DL)	79.75	0.298	-0.0250	0.4740	0.4740
97 mph 60 deg with No Ice (Reduced DL)	100.25	0.477	-0.0303	0.6122	0.6122
97 mph 60 deg with No Ice (Reduced DL)	126.75	0.781	-0.0346	0.7333	0.7340
97 mph 60 deg with No Ice (Reduced DL)	150.00	1.115	-0.0385	0.9095	0.9095
97 mph 60 deg with No Ice (Reduced DL)	159.75	1.273	-0.0420	1.0541	1.0542
97 mph 60 deg with No Ice (Reduced DL)	168.05	1.419	-0.0418	1.0301	1.0308
97 mph 60 deg with No Ice (Reduced DL)	175.85	1.561	-0.0416	1.0394	1.0403
97 mph 60 deg with No Ice (Reduced DL)	184.19	1.715	-0.0415	1.0491	1.0499
97 mph 60 deg with No Ice (Reduced DL)	188.13	1.788	-0.0417	1.0694	1.0694
97 mph 60 deg with No Ice (Reduced DL)	192.06	1.860	-0.0416	1.0565	1.0573
97 mph 90 deg with No Ice (Reduced DL)	79.75	0.300	-0.0295	0.4720	0.4722

Force/Stress Summary

97 mph 90 deg with No Ice (Reduced DL)	100.25	0.480	-0.0356	0.6104	0.6107
97 mph 90 deg with No Ice (Reduced DL)	126.75	0.787	-0.0407	0.7389	0.7401
97 mph 90 deg with No Ice (Reduced DL)	150.00	1.123	-0.0451	0.9127	0.9130
97 mph 90 deg with No Ice (Reduced DL)	159.75	1.282	-0.0488	1.0506	1.0508
97 mph 90 deg with No Ice (Reduced DL)	168.05	1.429	-0.0489	1.0372	1.0384
97 mph 90 deg with No Ice (Reduced DL)	175.85	1.572	-0.0488	1.0522	1.0533
97 mph 90 deg with No Ice (Reduced DL)	184.19	1.727	-0.0488	1.0612	1.0623
97 mph 90 deg with No Ice (Reduced DL)	188.13	1.800	-0.0489	1.0759	1.0762
97 mph 90 deg with No Ice (Reduced DL)	192.06	1.874	-0.0488	1.0647	1.0658
97 mph 120 deg with No Ice (Reduced DL)	79.75	0.307	-0.0265	0.4897	0.4898
97 mph 120 deg with No Ice (Reduced DL)	100.25	0.492	-0.0318	0.6321	0.6321
97 mph 120 deg with No Ice (Reduced DL)	126.75	0.805	-0.0364	0.7546	0.7552
97 mph 120 deg with No Ice (Reduced DL)	150.00	1.148	-0.0401	0.9354	0.9354
97 mph 120 deg with No Ice (Reduced DL)	159.75	1.311	-0.0430	1.0833	1.0833
97 mph 120 deg with No Ice (Reduced DL)	168.05	1.461	-0.0434	1.0587	1.0595
97 mph 120 deg with No Ice (Reduced DL)	175.85	1.607	-0.0435	1.0682	1.0691
97 mph 120 deg with No Ice (Reduced DL)	184.19	1.765	-0.0436	1.0776	1.0785
97 mph 120 deg with No Ice (Reduced DL)	188.13	1.840	-0.0434	1.0983	1.0983
97 mph 120 deg with No Ice (Reduced DL)	192.06	1.915	-0.0434	1.0857	1.0865
97 mph 180 deg with No Ice (Reduced DL)	79.75	0.298	0.0166	0.4772	0.4772
97 mph 180 deg with No Ice (Reduced DL)	100.25	0.477	0.0216	0.6122	0.6122
97 mph 180 deg with No Ice (Reduced DL)	126.75	0.782	0.0259	0.7337	0.7342
97 mph 180 deg with No Ice (Reduced DL)	150.00	1.115	0.0300	0.9096	0.9096
97 mph 180 deg with No Ice (Reduced DL)	159.75	1.273	0.0337	1.0543	1.0543
97 mph 180 deg with No Ice (Reduced DL)	168.05	1.419	0.0336	1.0302	1.0306
97 mph 180 deg with No Ice (Reduced DL)	175.85	1.561	0.0334	1.0395	1.0400
97 mph 180 deg with No Ice (Reduced DL)	184.19	1.715	0.0334	1.0492	1.0497
97 mph 180 deg with No Ice (Reduced DL)	188.13	1.788	0.0336	1.0695	1.0695
97 mph 180 deg with No Ice (Reduced DL)	192.06	1.861	0.0335	1.0566	1.0572
97 mph 210 deg with No Ice (Reduced DL)	79.75	0.300	0.0151	0.4755	0.4756
97 mph 210 deg with No Ice (Reduced DL)	100.25	0.480	0.0181	0.6106	0.6107
97 mph 210 deg with No Ice (Reduced DL)	126.75	0.787	0.0208	0.7395	0.7402
97 mph 210 deg with No Ice (Reduced DL)	150.00	1.123	0.0229	0.9130	0.9131
97 mph 210 deg with No Ice (Reduced DL)	159.75	1.282	0.0244	1.0508	1.0510
97 mph 210 deg with No Ice (Reduced DL)	168.05	1.430	0.0247	1.0373	1.0381
97 mph 210 deg with No Ice (Reduced DL)	175.85	1.572	0.0249	1.0523	1.0530
97 mph 210 deg with No Ice (Reduced DL)	184.19	1.727	0.0249	1.0612	1.0620
97 mph 210 deg with No Ice (Reduced DL)	188.13	1.801	0.0247	1.0760	1.0763
97 mph 210 deg with No Ice (Reduced DL)	192.06	1.874	0.0248	1.0648	1.0655
97 mph 240 deg with No Ice (Reduced DL)	79.75	0.307	0.0265	0.4897	0.4898
97 mph 240 deg with No Ice (Reduced DL)	100.25	0.492	0.0318	0.6321	0.6321
97 mph 240 deg with No Ice (Reduced DL)	126.75	0.805	0.0364	0.7546	0.7552
97 mph 240 deg with No Ice (Reduced DL)	150.00	1.148	0.0401	0.9354	0.9354
97 mph 240 deg with No Ice (Reduced DL)	159.75	1.311	0.0430	1.0833	1.0833
97 mph 240 deg with No Ice (Reduced DL)	168.05	1.461	0.0434	1.0587	1.0595
97 mph 240 deg with No Ice (Reduced DL)	175.85	1.607	0.0435	1.0682	1.0691
97 mph 240 deg with No Ice (Reduced DL)	184.19	1.765	0.0436	1.0776	1.0785
97 mph 240 deg with No Ice (Reduced DL)	188.13	1.840	0.0434	1.0983	1.0983
97 mph 240 deg with No Ice (Reduced DL)	192.06	1.915	0.0434	1.0857	1.0865
97 mph 300 deg with No Ice (Reduced DL)	79.75	0.298	0.0250	0.4740	0.4740
97 mph 300 deg with No Ice (Reduced DL)	100.25	0.477	0.0303	0.6122	0.6122
97 mph 300 deg with No Ice (Reduced DL)	126.75	0.781	0.0346	0.7333	0.7340
97 mph 300 deg with No Ice (Reduced DL)	150.00	1.115	0.0385	0.9095	0.9095
97 mph 300 deg with No Ice (Reduced DL)	159.75	1.273	0.0420	1.0541	1.0542
97 mph 300 deg with No Ice (Reduced DL)	168.05	1.419	0.0418	1.0301	1.0308
97 mph 300 deg with No Ice (Reduced DL)	175.85	1.561	0.0416	1.0394	1.0403
97 mph 300 deg with No Ice (Reduced DL)	184.19	1.715	0.0415	1.0491	1.0499
97 mph 300 deg with No Ice (Reduced DL)	188.13	1.788	0.0417	1.0694	1.0694
97 mph 300 deg with No Ice (Reduced DL)	192.06	1.860	0.0416	1.0565	1.0573

Force/Stress Summary

97 mph 330 deg with No Ice (Reduced DL)	79.75	0.300	0.0144	0.4754	0.4756
97 mph 330 deg with No Ice (Reduced DL)	100.25	0.480	0.0175	0.6104	0.6107
97 mph 330 deg with No Ice (Reduced DL)	126.75	0.787	0.0199	0.7395	0.7402
97 mph 330 deg with No Ice (Reduced DL)	150.00	1.123	0.0222	0.9128	0.9131
97 mph 330 deg with No Ice (Reduced DL)	159.75	1.282	0.0244	1.0508	1.0510
97 mph 330 deg with No Ice (Reduced DL)	168.05	1.430	0.0242	1.0373	1.0381
97 mph 330 deg with No Ice (Reduced DL)	175.85	1.572	0.0240	1.0523	1.0531
97 mph 330 deg with No Ice (Reduced DL)	184.19	1.727	0.0239	1.0612	1.0621
97 mph 330 deg with No Ice (Reduced DL)	188.13	1.801	0.0241	1.0760	1.0761
97 mph 330 deg with No Ice (Reduced DL)	192.06	1.874	0.0241	1.0648	1.0656
50 mph Normal with 0.75 in Radial Ice	79.75	0.098	0.0058	0.1528	0.1528
50 mph Normal with 0.75 in Radial Ice	100.25	0.155	0.0074	0.1973	0.1973
50 mph Normal with 0.75 in Radial Ice	126.75	0.252	0.0086	0.2313	0.2315
50 mph Normal with 0.75 in Radial Ice	150.00	0.357	0.0097	0.2842	0.2842
50 mph Normal with 0.75 in Radial Ice	159.75	0.406	0.0106	0.3221	0.3221
50 mph Normal with 0.75 in Radial Ice	168.05	0.452	0.0107	0.3197	0.3199
50 mph Normal with 0.75 in Radial Ice	175.85	0.495	0.0106	0.3220	0.3222
50 mph Normal with 0.75 in Radial Ice	184.19	0.543	0.0106	0.3237	0.3238
50 mph Normal with 0.75 in Radial Ice	188.13	0.565	0.0105	0.3299	0.3300
50 mph Normal with 0.75 in Radial Ice	192.06	0.588	0.0105	0.3267	0.3269
50 mph 60 deg with 0.75 in Radial Ice	79.75	0.098	-0.0078	0.1565	0.1565
50 mph 60 deg with 0.75 in Radial Ice	100.25	0.155	-0.0094	0.1962	0.1962
50 mph 60 deg with 0.75 in Radial Ice	126.75	0.250	-0.0106	0.2295	0.2297
50 mph 60 deg with 0.75 in Radial Ice	150.00	0.354	-0.0116	0.2803	0.2803
50 mph 60 deg with 0.75 in Radial Ice	159.75	0.403	-0.0125	0.3265	0.3265
50 mph 60 deg with 0.75 in Radial Ice	168.05	0.447	-0.0125	0.3175	0.3175
50 mph 60 deg with 0.75 in Radial Ice	175.85	0.491	-0.0124	0.3175	0.3178
50 mph 60 deg with 0.75 in Radial Ice	184.19	0.538	-0.0123	0.3205	0.3207
50 mph 60 deg with 0.75 in Radial Ice	188.13	0.560	-0.0123	0.3276	0.3276
50 mph 60 deg with 0.75 in Radial Ice	192.06	0.582	-0.0122	0.3234	0.3234
50 mph 90 deg with 0.75 in Radial Ice	79.75	0.098	-0.0090	0.1545	0.1546
50 mph 90 deg with 0.75 in Radial Ice	100.25	0.155	-0.0109	0.1942	0.1943
50 mph 90 deg with 0.75 in Radial Ice	126.75	0.251	-0.0124	0.2300	0.2303
50 mph 90 deg with 0.75 in Radial Ice	150.00	0.355	-0.0136	0.2812	0.2813
50 mph 90 deg with 0.75 in Radial Ice	159.75	0.404	-0.0146	0.3237	0.3238
50 mph 90 deg with 0.75 in Radial Ice	168.05	0.448	-0.0146	0.3182	0.3182
50 mph 90 deg with 0.75 in Radial Ice	175.85	0.492	-0.0145	0.3207	0.3211
50 mph 90 deg with 0.75 in Radial Ice	184.19	0.539	-0.0145	0.3228	0.3231
50 mph 90 deg with 0.75 in Radial Ice	188.13	0.561	-0.0144	0.3282	0.3283
50 mph 90 deg with 0.75 in Radial Ice	192.06	0.584	-0.0144	0.3243	0.3246
50 mph 120 deg with 0.75 in Radial Ice	79.75	0.098	-0.0079	0.1522	0.1522
50 mph 120 deg with 0.75 in Radial Ice	100.25	0.155	-0.0095	0.1973	0.1973
50 mph 120 deg with 0.75 in Radial Ice	126.75	0.252	-0.0107	0.2313	0.2315
50 mph 120 deg with 0.75 in Radial Ice	150.00	0.357	-0.0117	0.2842	0.2842
50 mph 120 deg with 0.75 in Radial Ice	159.75	0.406	-0.0126	0.3220	0.3220
50 mph 120 deg with 0.75 in Radial Ice	168.05	0.452	-0.0125	0.3197	0.3200
50 mph 120 deg with 0.75 in Radial Ice	175.85	0.495	-0.0125	0.3220	0.3222
50 mph 120 deg with 0.75 in Radial Ice	184.19	0.543	-0.0124	0.3236	0.3239
50 mph 120 deg with 0.75 in Radial Ice	188.13	0.565	-0.0123	0.3299	0.3301
50 mph 120 deg with 0.75 in Radial Ice	192.06	0.588	-0.0123	0.3267	0.3269
50 mph 180 deg with 0.75 in Radial Ice	79.75	0.098	0.0058	0.1572	0.1572
50 mph 180 deg with 0.75 in Radial Ice	100.25	0.155	0.0073	0.1962	0.1962
50 mph 180 deg with 0.75 in Radial Ice	126.75	0.250	0.0085	0.2296	0.2297
50 mph 180 deg with 0.75 in Radial Ice	150.00	0.354	0.0097	0.2804	0.2804
50 mph 180 deg with 0.75 in Radial Ice	159.75	0.403	0.0106	0.3265	0.3265
50 mph 180 deg with 0.75 in Radial Ice	168.05	0.447	0.0106	0.3176	0.3176
50 mph 180 deg with 0.75 in Radial Ice	175.85	0.491	0.0105	0.3175	0.3177
50 mph 180 deg with 0.75 in Radial Ice	184.19	0.538	0.0105	0.3205	0.3207
50 mph 180 deg with 0.75 in Radial Ice	188.13	0.560	0.0105	0.3276	0.3276

Site Number: 302470

Code:

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Force/Stress Summary

50 mph 180 deg with 0.75 in Radial Ice	192.06	0.582	0.0104	0.3234	0.3234
50 mph 210 deg with 0.75 in Radial Ice	79.75	0.098	0.0045	0.1553	0.1553
50 mph 210 deg with 0.75 in Radial Ice	100.25	0.155	0.0054	0.1942	0.1942
50 mph 210 deg with 0.75 in Radial Ice	126.75	0.251	0.0062	0.2301	0.2303
50 mph 210 deg with 0.75 in Radial Ice	150.00	0.355	0.0067	0.2812	0.2813
50 mph 210 deg with 0.75 in Radial Ice	159.75	0.404	0.0072	0.3237	0.3237
50 mph 210 deg with 0.75 in Radial Ice	168.05	0.448	0.0072	0.3181	0.3182
50 mph 210 deg with 0.75 in Radial Ice	175.85	0.492	0.0072	0.3207	0.3209
50 mph 210 deg with 0.75 in Radial Ice	184.19	0.539	0.0071	0.3227	0.3230
50 mph 210 deg with 0.75 in Radial Ice	188.13	0.561	0.0071	0.3281	0.3282
50 mph 210 deg with 0.75 in Radial Ice	192.06	0.584	0.0071	0.3243	0.3245
50 mph 240 deg with 0.75 in Radial Ice	79.75	0.098	0.0079	0.1522	0.1522
50 mph 240 deg with 0.75 in Radial Ice	100.25	0.155	0.0095	0.1973	0.1973
50 mph 240 deg with 0.75 in Radial Ice	126.75	0.252	0.0107	0.2313	0.2315
50 mph 240 deg with 0.75 in Radial Ice	150.00	0.357	0.0117	0.2842	0.2842
50 mph 240 deg with 0.75 in Radial Ice	159.75	0.406	0.0126	0.3220	0.3220
50 mph 240 deg with 0.75 in Radial Ice	168.05	0.452	0.0125	0.3197	0.3200
50 mph 240 deg with 0.75 in Radial Ice	175.85	0.495	0.0125	0.3220	0.3222
50 mph 240 deg with 0.75 in Radial Ice	184.19	0.543	0.0124	0.3236	0.3239
50 mph 240 deg with 0.75 in Radial Ice	188.13	0.565	0.0123	0.3299	0.3301
50 mph 240 deg with 0.75 in Radial Ice	192.06	0.588	0.0123	0.3267	0.3269
50 mph 300 deg with 0.75 in Radial Ice	79.75	0.098	0.0078	0.1565	0.1565
50 mph 300 deg with 0.75 in Radial Ice	100.25	0.155	0.0094	0.1962	0.1962
50 mph 300 deg with 0.75 in Radial Ice	126.75	0.250	0.0106	0.2295	0.2297
50 mph 300 deg with 0.75 in Radial Ice	150.00	0.354	0.0116	0.2803	0.2803
50 mph 300 deg with 0.75 in Radial Ice	159.75	0.403	0.0125	0.3265	0.3265
50 mph 300 deg with 0.75 in Radial Ice	168.05	0.447	0.0125	0.3175	0.3175
50 mph 300 deg with 0.75 in Radial Ice	175.85	0.491	0.0124	0.3175	0.3178
50 mph 300 deg with 0.75 in Radial Ice	184.19	0.538	0.0123	0.3205	0.3207
50 mph 300 deg with 0.75 in Radial Ice	188.13	0.560	0.0123	0.3276	0.3276
50 mph 300 deg with 0.75 in Radial Ice	192.06	0.582	0.0122	0.3234	0.3234
50 mph 330 deg with 0.75 in Radial Ice	79.75	0.098	0.0045	0.1553	0.1553
50 mph 330 deg with 0.75 in Radial Ice	100.25	0.155	0.0054	0.1942	0.1942
50 mph 330 deg with 0.75 in Radial Ice	126.75	0.251	0.0061	0.2301	0.2303
50 mph 330 deg with 0.75 in Radial Ice	150.00	0.355	0.0067	0.2812	0.2813
50 mph 330 deg with 0.75 in Radial Ice	159.75	0.404	0.0073	0.3237	0.3237
50 mph 330 deg with 0.75 in Radial Ice	168.05	0.448	0.0072	0.3181	0.3181
50 mph 330 deg with 0.75 in Radial Ice	175.85	0.492	0.0071	0.3207	0.3209
50 mph 330 deg with 0.75 in Radial Ice	184.19	0.539	0.0071	0.3227	0.3230
50 mph 330 deg with 0.75 in Radial Ice	188.13	0.561	0.0071	0.3281	0.3282
50 mph 330 deg with 0.75 in Radial Ice	192.06	0.584	0.0071	0.3243	0.3245
Seismic Normal M1	79.75	0.013	0.0008	0.0219	0.0219
Seismic Normal M1	100.25	0.022	0.0010	0.0292	0.0292
Seismic Normal M1	126.75	0.037	0.0012	0.0365	0.0365
Seismic Normal M1	150.00	0.053	0.0012	0.0467	0.0467
Seismic Normal M1	159.75	0.061	0.0013	0.0536	0.0536
Seismic Normal M1	168.05	0.069	0.0013	0.0536	0.0536
Seismic Normal M1	175.85	0.076	0.0012	0.0539	0.0539
Seismic Normal M1	184.19	0.084	0.0012	0.0537	0.0537
Seismic Normal M1	188.13	0.088	0.0011	0.0551	0.0551
Seismic Normal M1	192.06	0.092	0.0011	0.0545	0.0545
Seismic Normal M2	79.75	0.012	0.0006	0.0193	0.0193
Seismic Normal M2	100.25	0.019	0.0008	0.0261	0.0261
Seismic Normal M2	126.75	0.033	0.0009	0.0353	0.0353
Seismic Normal M2	150.00	0.050	0.0009	0.0475	0.0475
Seismic Normal M2	159.75	0.058	0.0010	0.0564	0.0564
Seismic Normal M2	168.05	0.066	0.0010	0.0576	0.0576
Seismic Normal M2	175.85	0.074	0.0010	0.0582	0.0583
Seismic Normal M2	184.19	0.083	0.0009	0.0585	0.0585

Site Number: 302470

Code:

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Force/Stress Summary

Seismic Normal M2	188.13	0.087	0.0009	0.0606	0.0606
Seismic Normal M2	192.06	0.091	0.0009	0.0598	0.0598
Seismic 60 deg M1	79.75	0.013	0.0008	0.0229	0.0229
Seismic 60 deg M1	100.25	0.022	0.0011	0.0294	0.0294
Seismic 60 deg M1	126.75	0.037	0.0012	0.0366	0.0366
Seismic 60 deg M1	150.00	0.053	0.0012	0.0460	0.0460
Seismic 60 deg M1	159.75	0.061	0.0013	0.0560	0.0560
Seismic 60 deg M1	168.05	0.069	-0.0013	0.0537	0.0537
Seismic 60 deg M1	175.85	0.076	-0.0012	0.0535	0.0535
Seismic 60 deg M1	184.19	0.084	-0.0012	0.0534	0.0534
Seismic 60 deg M1	188.13	0.088	-0.0011	0.0551	0.0551
Seismic 60 deg M1	192.06	0.092	-0.0011	0.0546	0.0546
Seismic 60 deg M2	79.75	0.011	0.0006	0.0199	0.0199
Seismic 60 deg M2	100.25	0.019	0.0008	0.0264	0.0264
Seismic 60 deg M2	126.75	0.033	0.0009	0.0353	0.0354
Seismic 60 deg M2	150.00	0.050	-0.0009	0.0468	0.0468
Seismic 60 deg M2	159.75	0.058	-0.0010	0.0590	0.0590
Seismic 60 deg M2	168.05	0.066	-0.0010	0.0575	0.0575
Seismic 60 deg M2	175.85	0.074	-0.0009	0.0579	0.0579
Seismic 60 deg M2	184.19	0.083	-0.0009	0.0583	0.0583
Seismic 60 deg M2	188.13	0.087	-0.0009	0.0608	0.0608
Seismic 60 deg M2	192.06	0.091	-0.0009	0.0599	0.0599
Seismic 90 deg M1	79.75	0.013	-0.0010	0.0226	0.0226
Seismic 90 deg M1	100.25	0.022	-0.0012	0.0291	0.0291
Seismic 90 deg M1	126.75	0.037	-0.0014	0.0366	0.0366
Seismic 90 deg M1	150.00	0.053	-0.0014	0.0465	0.0465
Seismic 90 deg M1	159.75	0.061	-0.0015	0.0553	0.0553
Seismic 90 deg M1	168.05	0.069	-0.0015	0.0537	0.0537
Seismic 90 deg M1	175.85	0.076	-0.0014	0.0540	0.0540
Seismic 90 deg M1	184.19	0.084	-0.0013	0.0537	0.0538
Seismic 90 deg M1	188.13	0.088	-0.0013	0.0551	0.0551
Seismic 90 deg M1	192.06	0.092	-0.0013	0.0546	0.0546
Seismic 90 deg M2	79.75	0.012	-0.0007	0.0198	0.0198
Seismic 90 deg M2	100.25	0.019	-0.0009	0.0261	0.0261
Seismic 90 deg M2	126.75	0.033	-0.0010	0.0353	0.0354
Seismic 90 deg M2	150.00	0.050	-0.0010	0.0472	0.0472
Seismic 90 deg M2	159.75	0.058	-0.0012	0.0582	0.0582
Seismic 90 deg M2	168.05	0.066	-0.0011	0.0575	0.0575
Seismic 90 deg M2	175.85	0.074	-0.0011	0.0586	0.0586
Seismic 90 deg M2	184.19	0.083	-0.0010	0.0587	0.0587
Seismic 90 deg M2	188.13	0.087	-0.0010	0.0607	0.0607
Seismic 90 deg M2	192.06	0.091	-0.0010	0.0599	0.0599
Seismic 120 deg M1	79.75	0.013	-0.0008	0.0219	0.0219
Seismic 120 deg M1	100.25	0.022	-0.0011	0.0292	0.0292
Seismic 120 deg M1	126.75	0.037	0.0012	0.0365	0.0365
Seismic 120 deg M1	150.00	0.053	-0.0012	0.0467	0.0467
Seismic 120 deg M1	159.75	0.061	-0.0013	0.0536	0.0536
Seismic 120 deg M1	168.05	0.069	-0.0013	0.0536	0.0536
Seismic 120 deg M1	175.85	0.076	-0.0012	0.0539	0.0539
Seismic 120 deg M1	184.19	0.084	-0.0012	0.0537	0.0537
Seismic 120 deg M1	188.13	0.088	-0.0011	0.0551	0.0551
Seismic 120 deg M1	192.06	0.092	-0.0011	0.0545	0.0545
Seismic 120 deg M2	79.75	0.012	-0.0006	0.0193	0.0193
Seismic 120 deg M2	100.25	0.019	-0.0008	0.0261	0.0261
Seismic 120 deg M2	126.75	0.033	-0.0009	0.0353	0.0353
Seismic 120 deg M2	150.00	0.050	-0.0009	0.0475	0.0475
Seismic 120 deg M2	159.75	0.058	-0.0010	0.0564	0.0564
Seismic 120 deg M2	168.05	0.066	-0.0010	0.0576	0.0576
Seismic 120 deg M2	175.85	0.074	-0.0009	0.0582	0.0583

Site Number: 302470

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Force/Stress Summary

Seismic 120 deg M2	184.19	0.083	-0.0009	0.0585	0.0585
Seismic 120 deg M2	188.13	0.087	-0.0009	0.0606	0.0606
Seismic 120 deg M2	192.06	0.091	-0.0009	0.0598	0.0598
Seismic 180 deg M1	79.75	0.013	0.0008	0.0229	0.0229
Seismic 180 deg M1	100.25	0.022	0.0010	0.0294	0.0294
Seismic 180 deg M1	126.75	0.037	0.0012	0.0366	0.0366
Seismic 180 deg M1	150.00	0.053	0.0012	0.0460	0.0460
Seismic 180 deg M1	159.75	0.061	0.0013	0.0560	0.0560
Seismic 180 deg M1	168.05	0.069	0.0013	0.0537	0.0537
Seismic 180 deg M1	175.85	0.076	0.0012	0.0535	0.0535
Seismic 180 deg M1	184.19	0.084	0.0012	0.0534	0.0534
Seismic 180 deg M1	188.13	0.088	0.0011	0.0551	0.0551
Seismic 180 deg M1	192.06	0.092	0.0011	0.0546	0.0546
Seismic 180 deg M2	79.75	0.011	0.0006	0.0199	0.0199
Seismic 180 deg M2	100.25	0.019	0.0008	0.0264	0.0264
Seismic 180 deg M2	126.75	0.033	0.0009	0.0354	0.0354
Seismic 180 deg M2	150.00	0.050	0.0009	0.0468	0.0468
Seismic 180 deg M2	159.75	0.058	0.0010	0.0590	0.0590
Seismic 180 deg M2	168.05	0.066	0.0010	0.0575	0.0575
Seismic 180 deg M2	175.85	0.074	0.0010	0.0579	0.0579
Seismic 180 deg M2	184.19	0.083	0.0009	0.0583	0.0583
Seismic 180 deg M2	188.13	0.087	0.0009	0.0608	0.0608
Seismic 180 deg M2	192.06	0.091	0.0009	0.0599	0.0599
Seismic 210 deg M1	79.75	0.013	0.0005	0.0226	0.0226
Seismic 210 deg M1	100.25	0.022	0.0006	0.0291	0.0291
Seismic 210 deg M1	126.75	0.037	0.0007	0.0366	0.0366
Seismic 210 deg M1	150.00	0.053	0.0007	0.0465	0.0465
Seismic 210 deg M1	159.75	0.061	0.0008	0.0553	0.0553
Seismic 210 deg M1	168.05	0.069	0.0007	0.0537	0.0537
Seismic 210 deg M1	175.85	0.076	0.0007	0.0540	0.0540
Seismic 210 deg M1	184.19	0.084	0.0007	0.0537	0.0538
Seismic 210 deg M1	188.13	0.088	0.0007	0.0551	0.0551
Seismic 210 deg M1	192.06	0.092	0.0006	0.0546	0.0546
Seismic 210 deg M2	79.75	0.012	0.0004	0.0198	0.0198
Seismic 210 deg M2	100.25	0.019	0.0005	0.0261	0.0261
Seismic 210 deg M2	126.75	0.033	0.0005	0.0353	0.0354
Seismic 210 deg M2	150.00	0.050	0.0005	0.0472	0.0472
Seismic 210 deg M2	159.75	0.058	0.0006	0.0582	0.0582
Seismic 210 deg M2	168.05	0.066	0.0006	0.0575	0.0575
Seismic 210 deg M2	175.85	0.074	0.0006	0.0585	0.0586
Seismic 210 deg M2	184.19	0.083	0.0006	0.0587	0.0587
Seismic 210 deg M2	188.13	0.087	0.0005	0.0607	0.0607
Seismic 210 deg M2	192.06	0.091	0.0005	0.0599	0.0599
Seismic 240 deg M1	79.75	0.013	0.0008	0.0219	0.0219
Seismic 240 deg M1	100.25	0.022	0.0011	0.0292	0.0292
Seismic 240 deg M1	126.75	0.037	0.0012	0.0365	0.0365
Seismic 240 deg M1	150.00	0.053	0.0012	0.0467	0.0467
Seismic 240 deg M1	159.75	0.061	0.0013	0.0536	0.0536
Seismic 240 deg M1	168.05	0.069	0.0013	0.0536	0.0536
Seismic 240 deg M1	175.85	0.076	0.0012	0.0539	0.0539
Seismic 240 deg M1	184.19	0.084	0.0012	0.0537	0.0537
Seismic 240 deg M1	188.13	0.088	0.0011	0.0551	0.0551
Seismic 240 deg M1	192.06	0.092	0.0011	0.0545	0.0545
Seismic 240 deg M2	79.75	0.012	0.0006	0.0193	0.0193
Seismic 240 deg M2	100.25	0.019	0.0008	0.0261	0.0261
Seismic 240 deg M2	126.75	0.033	0.0009	0.0353	0.0353
Seismic 240 deg M2	150.00	0.050	0.0009	0.0475	0.0475
Seismic 240 deg M2	159.75	0.058	0.0010	0.0564	0.0564
Seismic 240 deg M2	168.05	0.066	0.0010	0.0576	0.0576

Site Number: 302470

Code:

ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Force/Stress Summary

Seismic 240 deg M2	175.85	0.074	0.0009	0.0582	0.0583
Seismic 240 deg M2	184.19	0.083	0.0009	0.0585	0.0585
Seismic 240 deg M2	188.13	0.087	0.0009	0.0606	0.0606
Seismic 240 deg M2	192.06	0.091	0.0009	0.0598	0.0598
Seismic 300 deg M1	79.75	0.013	0.0008	0.0229	0.0229
Seismic 300 deg M1	100.25	0.022	0.0011	0.0294	0.0294
Seismic 300 deg M1	126.75	0.037	0.0012	0.0366	0.0366
Seismic 300 deg M1	150.00	0.053	0.0012	0.0460	0.0460
Seismic 300 deg M1	159.75	0.061	0.0013	0.0560	0.0560
Seismic 300 deg M1	168.05	0.069	0.0013	0.0537	0.0537
Seismic 300 deg M1	175.85	0.076	0.0012	0.0535	0.0535
Seismic 300 deg M1	184.19	0.084	0.0012	0.0534	0.0534
Seismic 300 deg M1	188.13	0.088	0.0011	0.0551	0.0551
Seismic 300 deg M1	192.06	0.092	0.0011	0.0546	0.0546
Seismic 300 deg M2	79.75	0.011	0.0006	0.0199	0.0199
Seismic 300 deg M2	100.25	0.019	0.0008	0.0264	0.0264
Seismic 300 deg M2	126.75	0.033	0.0009	0.0353	0.0354
Seismic 300 deg M2	150.00	0.050	0.0009	0.0468	0.0468
Seismic 300 deg M2	159.75	0.058	0.0010	0.0590	0.0590
Seismic 300 deg M2	168.05	0.066	0.0010	0.0575	0.0575
Seismic 300 deg M2	175.85	0.074	0.0009	0.0579	0.0579
Seismic 300 deg M2	184.19	0.083	0.0009	0.0583	0.0583
Seismic 300 deg M2	188.13	0.087	0.0009	0.0608	0.0608
Seismic 300 deg M2	192.06	0.091	0.0009	0.0599	0.0599
Seismic 330 deg M1	79.75	0.013	0.0005	0.0226	0.0226
Seismic 330 deg M1	100.25	0.022	0.0006	0.0291	0.0291
Seismic 330 deg M1	126.75	0.037	0.0007	0.0366	0.0366
Seismic 330 deg M1	150.00	0.053	0.0007	0.0465	0.0465
Seismic 330 deg M1	159.75	0.061	0.0008	0.0553	0.0553
Seismic 330 deg M1	168.05	0.069	0.0007	0.0537	0.0537
Seismic 330 deg M1	175.85	0.076	0.0007	0.0540	0.0540
Seismic 330 deg M1	184.19	0.084	0.0007	0.0537	0.0538
Seismic 330 deg M1	188.13	0.088	0.0007	0.0551	0.0551
Seismic 330 deg M1	192.06	0.092	0.0007	0.0546	0.0546
Seismic 330 deg M2	79.75	0.012	0.0004	0.0198	0.0198
Seismic 330 deg M2	100.25	0.019	0.0005	0.0261	0.0261
Seismic 330 deg M2	126.75	0.033	0.0005	0.0353	0.0354
Seismic 330 deg M2	150.00	0.050	0.0005	0.0472	0.0472
Seismic 330 deg M2	159.75	0.058	0.0006	0.0582	0.0582
Seismic 330 deg M2	168.05	0.066	0.0006	0.0575	0.0575
Seismic 330 deg M2	175.85	0.074	0.0006	0.0586	0.0586
Seismic 330 deg M2	184.19	0.083	0.0006	0.0587	0.0587
Seismic 330 deg M2	188.13	0.087	0.0006	0.0607	0.0607
Seismic 330 deg M2	192.06	0.091	0.0005	0.0599	0.0599
Seismic (Reduced DL) Normal M1	79.75	0.013	0.0008	0.0217	0.0217
Seismic (Reduced DL) Normal M1	100.25	0.022	0.0010	0.0291	0.0291
Seismic (Reduced DL) Normal M1	126.75	0.037	0.0012	0.0364	0.0364
Seismic (Reduced DL) Normal M1	150.00	0.053	0.0012	0.0465	0.0465
Seismic (Reduced DL) Normal M1	159.75	0.061	0.0013	0.0536	0.0536
Seismic (Reduced DL) Normal M1	168.05	0.069	0.0013	0.0534	0.0534
Seismic (Reduced DL) Normal M1	175.85	0.076	0.0012	0.0536	0.0537
Seismic (Reduced DL) Normal M1	184.19	0.084	0.0012	0.0535	0.0535
Seismic (Reduced DL) Normal M1	188.13	0.088	0.0011	0.0549	0.0549
Seismic (Reduced DL) Normal M1	192.06	0.092	0.0011	0.0543	0.0543
Seismic (Reduced DL) Normal M2	79.75	0.012	0.0006	0.0191	0.0191
Seismic (Reduced DL) Normal M2	100.25	0.019	0.0008	0.0261	0.0261
Seismic (Reduced DL) Normal M2	126.75	0.033	0.0009	0.0352	0.0352
Seismic (Reduced DL) Normal M2	150.00	0.050	0.0009	0.0472	0.0472
Seismic (Reduced DL) Normal M2	159.75	0.058	0.0010	0.0566	0.0566

Site Number: 302470

Code:

ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Force/Stress Summary

Seismic (Reduced DL) Normal M2	168.05	0.066	0.0010	0.0573	0.0573
Seismic (Reduced DL) Normal M2	175.85	0.074	0.0010	0.0580	0.0580
Seismic (Reduced DL) Normal M2	184.19	0.083	0.0009	0.0583	0.0583
Seismic (Reduced DL) Normal M2	188.13	0.087	0.0009	0.0605	0.0605
Seismic (Reduced DL) Normal M2	192.06	0.091	0.0009	0.0596	0.0596
Seismic (Reduced DL) 60 deg M1	79.75	0.013	0.0008	0.0225	0.0225
Seismic (Reduced DL) 60 deg M1	100.25	0.022	0.0011	0.0293	0.0293
Seismic (Reduced DL) 60 deg M1	126.75	0.037	0.0012	0.0365	0.0365
Seismic (Reduced DL) 60 deg M1	150.00	0.053	0.0012	0.0460	0.0460
Seismic (Reduced DL) 60 deg M1	159.75	0.061	0.0013	0.0555	0.0555
Seismic (Reduced DL) 60 deg M1	168.05	0.069	-0.0013	0.0533	0.0533
Seismic (Reduced DL) 60 deg M1	175.85	0.076	-0.0012	0.0534	0.0534
Seismic (Reduced DL) 60 deg M1	184.19	0.084	-0.0011	0.0533	0.0533
Seismic (Reduced DL) 60 deg M1	188.13	0.088	-0.0011	0.0549	0.0549
Seismic (Reduced DL) 60 deg M1	192.06	0.092	-0.0011	0.0544	0.0544
Seismic (Reduced DL) 60 deg M2	79.75	0.011	-0.0006	0.0196	0.0196
Seismic (Reduced DL) 60 deg M2	100.25	0.019	0.0008	0.0262	0.0262
Seismic (Reduced DL) 60 deg M2	126.75	0.033	0.0009	0.0352	0.0352
Seismic (Reduced DL) 60 deg M2	150.00	0.050	-0.0009	0.0468	0.0468
Seismic (Reduced DL) 60 deg M2	159.75	0.058	-0.0010	0.0584	0.0584
Seismic (Reduced DL) 60 deg M2	168.05	0.066	-0.0010	0.0571	0.0571
Seismic (Reduced DL) 60 deg M2	175.85	0.074	-0.0009	0.0578	0.0578
Seismic (Reduced DL) 60 deg M2	184.19	0.083	-0.0009	0.0581	0.0581
Seismic (Reduced DL) 60 deg M2	188.13	0.087	-0.0009	0.0606	0.0606
Seismic (Reduced DL) 60 deg M2	192.06	0.091	-0.0009	0.0596	0.0596
Seismic (Reduced DL) 90 deg M1	79.75	0.013	-0.0010	0.0223	0.0223
Seismic (Reduced DL) 90 deg M1	100.25	0.022	-0.0012	0.0290	0.0290
Seismic (Reduced DL) 90 deg M1	126.75	0.037	-0.0014	0.0365	0.0365
Seismic (Reduced DL) 90 deg M1	150.00	0.053	-0.0014	0.0462	0.0462
Seismic (Reduced DL) 90 deg M1	159.75	0.061	-0.0015	0.0547	0.0547
Seismic (Reduced DL) 90 deg M1	168.05	0.069	-0.0015	0.0533	0.0533
Seismic (Reduced DL) 90 deg M1	175.85	0.076	-0.0014	0.0538	0.0539
Seismic (Reduced DL) 90 deg M1	184.19	0.084	-0.0013	0.0536	0.0536
Seismic (Reduced DL) 90 deg M1	188.13	0.088	-0.0013	0.0549	0.0549
Seismic (Reduced DL) 90 deg M1	192.06	0.092	-0.0013	0.0544	0.0544
Seismic (Reduced DL) 90 deg M2	79.75	0.012	-0.0007	0.0194	0.0194
Seismic (Reduced DL) 90 deg M2	100.25	0.019	-0.0009	0.0260	0.0260
Seismic (Reduced DL) 90 deg M2	126.75	0.033	-0.0010	0.0352	0.0353
Seismic (Reduced DL) 90 deg M2	150.00	0.050	-0.0010	0.0470	0.0470
Seismic (Reduced DL) 90 deg M2	159.75	0.058	-0.0012	0.0576	0.0576
Seismic (Reduced DL) 90 deg M2	168.05	0.066	-0.0011	0.0572	0.0572
Seismic (Reduced DL) 90 deg M2	175.85	0.074	-0.0011	0.0584	0.0584
Seismic (Reduced DL) 90 deg M2	184.19	0.083	-0.0010	0.0586	0.0586
Seismic (Reduced DL) 90 deg M2	188.13	0.087	-0.0010	0.0605	0.0605
Seismic (Reduced DL) 90 deg M2	192.06	0.091	-0.0010	0.0596	0.0596
Seismic (Reduced DL) 120 deg M1	79.75	0.013	-0.0008	0.0217	0.0217
Seismic (Reduced DL) 120 deg M1	100.25	0.022	-0.0011	0.0291	0.0291
Seismic (Reduced DL) 120 deg M1	126.75	0.037	0.0012	0.0364	0.0364
Seismic (Reduced DL) 120 deg M1	150.00	0.053	-0.0012	0.0465	0.0465
Seismic (Reduced DL) 120 deg M1	159.75	0.061	-0.0013	0.0536	0.0536
Seismic (Reduced DL) 120 deg M1	168.05	0.069	-0.0013	0.0534	0.0534
Seismic (Reduced DL) 120 deg M1	175.85	0.076	-0.0012	0.0536	0.0537
Seismic (Reduced DL) 120 deg M1	184.19	0.084	-0.0011	0.0535	0.0535
Seismic (Reduced DL) 120 deg M1	188.13	0.088	-0.0011	0.0549	0.0549
Seismic (Reduced DL) 120 deg M1	192.06	0.092	-0.0011	0.0543	0.0543
Seismic (Reduced DL) 120 deg M2	79.75	0.012	-0.0006	0.0191	0.0191
Seismic (Reduced DL) 120 deg M2	100.25	0.019	-0.0008	0.0261	0.0261
Seismic (Reduced DL) 120 deg M2	126.75	0.033	-0.0009	0.0352	0.0352
Seismic (Reduced DL) 120 deg M2	150.00	0.050	-0.0009	0.0472	0.0472

Force/Stress Summary

Seismic (Reduced DL) 120 deg M2	159.75	0.058	-0.0010	0.0566	0.0566
Seismic (Reduced DL) 120 deg M2	168.05	0.066	-0.0010	0.0573	0.0573
Seismic (Reduced DL) 120 deg M2	175.85	0.074	-0.0009	0.0580	0.0580
Seismic (Reduced DL) 120 deg M2	184.19	0.083	-0.0009	0.0583	0.0583
Seismic (Reduced DL) 120 deg M2	188.13	0.087	-0.0009	0.0605	0.0605
Seismic (Reduced DL) 120 deg M2	192.06	0.091	-0.0009	0.0596	0.0596
Seismic (Reduced DL) 180 deg M1	79.75	0.013	0.0008	0.0225	0.0225
Seismic (Reduced DL) 180 deg M1	100.25	0.022	0.0010	0.0293	0.0293
Seismic (Reduced DL) 180 deg M1	126.75	0.037	0.0012	0.0365	0.0365
Seismic (Reduced DL) 180 deg M1	150.00	0.053	0.0012	0.0460	0.0460
Seismic (Reduced DL) 180 deg M1	159.75	0.061	0.0013	0.0555	0.0555
Seismic (Reduced DL) 180 deg M1	168.05	0.069	0.0013	0.0533	0.0533
Seismic (Reduced DL) 180 deg M1	175.85	0.076	0.0012	0.0534	0.0534
Seismic (Reduced DL) 180 deg M1	184.19	0.084	0.0011	0.0533	0.0533
Seismic (Reduced DL) 180 deg M1	188.13	0.088	0.0011	0.0549	0.0549
Seismic (Reduced DL) 180 deg M1	192.06	0.092	0.0011	0.0544	0.0544
Seismic (Reduced DL) 180 deg M2	79.75	0.011	0.0006	0.0196	0.0196
Seismic (Reduced DL) 180 deg M2	100.25	0.019	0.0008	0.0262	0.0262
Seismic (Reduced DL) 180 deg M2	126.75	0.033	0.0009	0.0352	0.0352
Seismic (Reduced DL) 180 deg M2	150.00	0.050	0.0009	0.0468	0.0468
Seismic (Reduced DL) 180 deg M2	159.75	0.058	0.0010	0.0584	0.0584
Seismic (Reduced DL) 180 deg M2	168.05	0.066	0.0010	0.0571	0.0571
Seismic (Reduced DL) 180 deg M2	175.85	0.074	0.0010	0.0578	0.0578
Seismic (Reduced DL) 180 deg M2	184.19	0.083	0.0009	0.0581	0.0581
Seismic (Reduced DL) 180 deg M2	188.13	0.087	0.0009	0.0606	0.0606
Seismic (Reduced DL) 180 deg M2	192.06	0.091	0.0009	0.0596	0.0596
Seismic (Reduced DL) 210 deg M1	79.75	0.013	0.0005	0.0223	0.0223
Seismic (Reduced DL) 210 deg M1	100.25	0.022	0.0006	0.0290	0.0290
Seismic (Reduced DL) 210 deg M1	126.75	0.037	0.0007	0.0365	0.0365
Seismic (Reduced DL) 210 deg M1	150.00	0.053	0.0007	0.0462	0.0462
Seismic (Reduced DL) 210 deg M1	159.75	0.061	0.0008	0.0547	0.0547
Seismic (Reduced DL) 210 deg M1	168.05	0.069	0.0007	0.0533	0.0533
Seismic (Reduced DL) 210 deg M1	175.85	0.076	0.0007	0.0538	0.0539
Seismic (Reduced DL) 210 deg M1	184.19	0.084	0.0007	0.0536	0.0536
Seismic (Reduced DL) 210 deg M1	188.13	0.088	0.0007	0.0549	0.0549
Seismic (Reduced DL) 210 deg M1	192.06	0.092	0.0006	0.0544	0.0544
Seismic (Reduced DL) 210 deg M2	79.75	0.012	0.0004	0.0194	0.0194
Seismic (Reduced DL) 210 deg M2	100.25	0.019	0.0005	0.0260	0.0260
Seismic (Reduced DL) 210 deg M2	126.75	0.033	0.0005	0.0352	0.0353
Seismic (Reduced DL) 210 deg M2	150.00	0.050	0.0005	0.0470	0.0470
Seismic (Reduced DL) 210 deg M2	159.75	0.058	0.0006	0.0576	0.0576
Seismic (Reduced DL) 210 deg M2	168.05	0.066	0.0006	0.0572	0.0572
Seismic (Reduced DL) 210 deg M2	175.85	0.074	0.0006	0.0584	0.0584
Seismic (Reduced DL) 210 deg M2	184.19	0.083	0.0006	0.0586	0.0586
Seismic (Reduced DL) 210 deg M2	188.13	0.087	0.0005	0.0605	0.0605
Seismic (Reduced DL) 210 deg M2	192.06	0.091	0.0005	0.0596	0.0596
Seismic (Reduced DL) 240 deg M1	79.75	0.013	0.0008	0.0217	0.0217
Seismic (Reduced DL) 240 deg M1	100.25	0.022	0.0011	0.0291	0.0291
Seismic (Reduced DL) 240 deg M1	126.75	0.037	0.0012	0.0364	0.0364
Seismic (Reduced DL) 240 deg M1	150.00	0.053	0.0012	0.0465	0.0465
Seismic (Reduced DL) 240 deg M1	159.75	0.061	0.0013	0.0536	0.0536
Seismic (Reduced DL) 240 deg M1	168.05	0.069	0.0013	0.0534	0.0534
Seismic (Reduced DL) 240 deg M1	175.85	0.076	0.0012	0.0536	0.0537
Seismic (Reduced DL) 240 deg M1	184.19	0.084	0.0011	0.0535	0.0535
Seismic (Reduced DL) 240 deg M1	188.13	0.088	0.0011	0.0549	0.0549
Seismic (Reduced DL) 240 deg M1	192.06	0.092	0.0011	0.0543	0.0543
Seismic (Reduced DL) 240 deg M2	79.75	0.012	0.0006	0.0191	0.0191
Seismic (Reduced DL) 240 deg M2	100.25	0.019	0.0008	0.0261	0.0261
Seismic (Reduced DL) 240 deg M2	126.75	0.033	0.0009	0.0352	0.0352

Site Number: 302470

Code:

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Force/Stress Summary

Seismic (Reduced DL) 240 deg M2	150.00	0.050	0.0009	0.0472	0.0472
Seismic (Reduced DL) 240 deg M2	159.75	0.058	0.0010	0.0566	0.0566
Seismic (Reduced DL) 240 deg M2	168.05	0.066	0.0010	0.0573	0.0573
Seismic (Reduced DL) 240 deg M2	175.85	0.074	0.0009	0.0580	0.0580
Seismic (Reduced DL) 240 deg M2	184.19	0.083	0.0009	0.0583	0.0583
Seismic (Reduced DL) 240 deg M2	188.13	0.087	0.0009	0.0605	0.0605
Seismic (Reduced DL) 240 deg M2	192.06	0.091	0.0009	0.0596	0.0596
Seismic (Reduced DL) 300 deg M1	79.75	0.013	0.0008	0.0225	0.0225
Seismic (Reduced DL) 300 deg M1	100.25	0.022	0.0011	0.0293	0.0293
Seismic (Reduced DL) 300 deg M1	126.75	0.037	0.0012	0.0365	0.0365
Seismic (Reduced DL) 300 deg M1	150.00	0.053	0.0012	0.0460	0.0460
Seismic (Reduced DL) 300 deg M1	159.75	0.061	0.0013	0.0555	0.0555
Seismic (Reduced DL) 300 deg M1	168.05	0.069	0.0013	0.0533	0.0533
Seismic (Reduced DL) 300 deg M1	175.85	0.076	0.0012	0.0534	0.0534
Seismic (Reduced DL) 300 deg M1	184.19	0.084	0.0011	0.0533	0.0533
Seismic (Reduced DL) 300 deg M1	188.13	0.088	0.0011	0.0549	0.0549
Seismic (Reduced DL) 300 deg M1	192.06	0.092	0.0011	0.0544	0.0544
Seismic (Reduced DL) 300 deg M2	79.75	0.011	0.0006	0.0196	0.0196
Seismic (Reduced DL) 300 deg M2	100.25	0.019	0.0008	0.0262	0.0262
Seismic (Reduced DL) 300 deg M2	126.75	0.033	0.0009	0.0352	0.0352
Seismic (Reduced DL) 300 deg M2	150.00	0.050	0.0009	0.0468	0.0468
Seismic (Reduced DL) 300 deg M2	159.75	0.058	0.0010	0.0584	0.0584
Seismic (Reduced DL) 300 deg M2	168.05	0.066	0.0010	0.0571	0.0571
Seismic (Reduced DL) 300 deg M2	175.85	0.074	0.0009	0.0578	0.0578
Seismic (Reduced DL) 300 deg M2	184.19	0.083	0.0009	0.0581	0.0581
Seismic (Reduced DL) 300 deg M2	188.13	0.087	0.0009	0.0606	0.0606
Seismic (Reduced DL) 300 deg M2	192.06	0.091	0.0009	0.0596	0.0596
Seismic (Reduced DL) 330 deg M1	79.75	0.013	0.0005	0.0223	0.0223
Seismic (Reduced DL) 330 deg M1	100.25	0.022	0.0006	0.0290	0.0290
Seismic (Reduced DL) 330 deg M1	126.75	0.037	0.0007	0.0365	0.0365
Seismic (Reduced DL) 330 deg M1	150.00	0.053	0.0007	0.0462	0.0462
Seismic (Reduced DL) 330 deg M1	159.75	0.061	0.0008	0.0547	0.0547
Seismic (Reduced DL) 330 deg M1	168.05	0.069	0.0007	0.0533	0.0533
Seismic (Reduced DL) 330 deg M1	175.85	0.076	0.0007	0.0538	0.0539
Seismic (Reduced DL) 330 deg M1	184.19	0.084	0.0007	0.0536	0.0536
Seismic (Reduced DL) 330 deg M1	188.13	0.088	0.0007	0.0549	0.0549
Seismic (Reduced DL) 330 deg M1	192.06	0.092	0.0006	0.0544	0.0544
Seismic (Reduced DL) 330 deg M2	79.75	0.012	0.0004	0.0194	0.0194
Seismic (Reduced DL) 330 deg M2	100.25	0.019	0.0005	0.0260	0.0260
Seismic (Reduced DL) 330 deg M2	126.75	0.033	0.0005	0.0352	0.0353
Seismic (Reduced DL) 330 deg M2	150.00	0.050	0.0005	0.0470	0.0470
Seismic (Reduced DL) 330 deg M2	159.75	0.058	0.0006	0.0576	0.0576
Seismic (Reduced DL) 330 deg M2	168.05	0.066	0.0006	0.0572	0.0572
Seismic (Reduced DL) 330 deg M2	175.85	0.074	0.0006	0.0584	0.0584
Seismic (Reduced DL) 330 deg M2	184.19	0.083	0.0006	0.0586	0.0586
Seismic (Reduced DL) 330 deg M2	188.13	0.087	0.0006	0.0605	0.0605
Seismic (Reduced DL) 330 deg M2	192.06	0.091	0.0005	0.0596	0.0596
Serviceability - 60 mph Wind Normal	79.75	0.074	0.0040	0.1177	0.1177
Serviceability - 60 mph Wind Normal	100.25	0.118	0.0052	0.1519	0.1519
Serviceability - 60 mph Wind Normal	126.75	0.194	0.0062	0.1814	0.1815
Serviceability - 60 mph Wind Normal	150.00	0.276	0.0071	0.2248	0.2248
Serviceability - 60 mph Wind Normal	159.75	0.315	0.0078	0.2591	0.2591
Serviceability - 60 mph Wind Normal	168.05	0.351	0.0078	0.2544	0.2545
Serviceability - 60 mph Wind Normal	175.85	0.386	0.0077	0.2566	0.2567
Serviceability - 60 mph Wind Normal	184.19	0.424	0.0076	0.2587	0.2588
Serviceability - 60 mph Wind Normal	188.13	0.442	0.0076	0.2634	0.2635
Serviceability - 60 mph Wind Normal	192.06	0.460	0.0075	0.2607	0.2608
Serviceability - 60 mph Wind 60 deg	79.75	0.071	-0.0060	0.1148	0.1148
Serviceability - 60 mph Wind 60 deg	100.25	0.114	-0.0072	0.1476	0.1476

Site Number: 302470

Code:

ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

1/12/2017 4:08:24 PM

Customer: AT&T Mobility

Force/Stress Summary

Serviceability - 60 mph Wind 60 deg	126.75	0.188	-0.0082	0.1765	0.1766
Serviceability - 60 mph Wind 60 deg	150.00	0.268	-0.0090	0.2185	0.2185
Serviceability - 60 mph Wind 60 deg	159.75	0.306	-0.0097	0.2542	0.2542
Serviceability - 60 mph Wind 60 deg	168.05	0.341	-0.0096	0.2480	0.2480
Serviceability - 60 mph Wind 60 deg	175.85	0.375	-0.0095	0.2495	0.2497
Serviceability - 60 mph Wind 60 deg	184.19	0.412	-0.0094	0.2520	0.2521
Serviceability - 60 mph Wind 60 deg	188.13	0.430	-0.0094	0.2570	0.2570
Serviceability - 60 mph Wind 60 deg	192.06	0.447	-0.0094	0.2536	0.2538
Serviceability - 60 mph Wind 90 deg	79.75	0.072	-0.0070	0.1142	0.1143
Serviceability - 60 mph Wind 90 deg	100.25	0.115	-0.0085	0.1470	0.1471
Serviceability - 60 mph Wind 90 deg	126.75	0.189	-0.0096	0.1779	0.1782
Serviceability - 60 mph Wind 90 deg	150.00	0.270	-0.0106	0.2197	0.2197
Serviceability - 60 mph Wind 90 deg	159.75	0.308	-0.0114	0.2534	0.2535
Serviceability - 60 mph Wind 90 deg	168.05	0.344	-0.0114	0.2498	0.2498
Serviceability - 60 mph Wind 90 deg	175.85	0.378	-0.0113	0.2529	0.2532
Serviceability - 60 mph Wind 90 deg	184.19	0.415	-0.0112	0.2551	0.2553
Serviceability - 60 mph Wind 90 deg	188.13	0.433	-0.0112	0.2588	0.2588
Serviceability - 60 mph Wind 90 deg	192.06	0.451	-0.0112	0.2559	0.2562
Serviceability - 60 mph Wind 120 deg	79.75	0.074	-0.0062	0.1169	0.1169
Serviceability - 60 mph Wind 120 deg	100.25	0.118	-0.0074	0.1519	0.1519
Serviceability - 60 mph Wind 120 deg	126.75	0.194	-0.0083	0.1813	0.1815
Serviceability - 60 mph Wind 120 deg	150.00	0.276	-0.0091	0.2248	0.2248
Serviceability - 60 mph Wind 120 deg	159.75	0.315	-0.0098	0.2590	0.2590
Serviceability - 60 mph Wind 120 deg	168.05	0.351	-0.0097	0.2544	0.2546
Serviceability - 60 mph Wind 120 deg	175.85	0.386	-0.0096	0.2566	0.2568
Serviceability - 60 mph Wind 120 deg	184.19	0.424	-0.0094	0.2587	0.2588
Serviceability - 60 mph Wind 120 deg	188.13	0.442	-0.0093	0.2634	0.2635
Serviceability - 60 mph Wind 120 deg	192.06	0.460	-0.0093	0.2607	0.2608
Serviceability - 60 mph Wind 180 deg	79.75	0.071	0.0039	0.1155	0.1155
Serviceability - 60 mph Wind 180 deg	100.25	0.114	0.0050	0.1475	0.1475
Serviceability - 60 mph Wind 180 deg	126.75	0.188	0.0060	0.1764	0.1765
Serviceability - 60 mph Wind 180 deg	150.00	0.268	0.0069	0.2183	0.2183
Serviceability - 60 mph Wind 180 deg	159.75	0.306	0.0077	0.2540	0.2540
Serviceability - 60 mph Wind 180 deg	168.05	0.341	0.0076	0.2477	0.2477
Serviceability - 60 mph Wind 180 deg	175.85	0.375	0.0075	0.2492	0.2493
Serviceability - 60 mph Wind 180 deg	184.19	0.412	0.0074	0.2517	0.2518
Serviceability - 60 mph Wind 180 deg	188.13	0.429	0.0074	0.2568	0.2568
Serviceability - 60 mph Wind 180 deg	192.06	0.447	0.0073	0.2534	0.2535
Serviceability - 60 mph Wind 210 deg	79.75	0.072	0.0035	0.1149	0.1149
Serviceability - 60 mph Wind 210 deg	100.25	0.115	0.0042	0.1468	0.1469
Serviceability - 60 mph Wind 210 deg	126.75	0.189	0.0047	0.1778	0.1779
Serviceability - 60 mph Wind 210 deg	150.00	0.270	0.0052	0.2194	0.2194
Serviceability - 60 mph Wind 210 deg	159.75	0.308	0.0055	0.2530	0.2531
Serviceability - 60 mph Wind 210 deg	168.05	0.343	0.0055	0.2494	0.2494
Serviceability - 60 mph Wind 210 deg	175.85	0.378	0.0054	0.2525	0.2527
Serviceability - 60 mph Wind 210 deg	184.19	0.415	0.0053	0.2547	0.2548
Serviceability - 60 mph Wind 210 deg	188.13	0.432	0.0053	0.2584	0.2584
Serviceability - 60 mph Wind 210 deg	192.06	0.450	0.0053	0.2555	0.2557
Serviceability - 60 mph Wind 240 deg	79.75	0.074	0.0062	0.1169	0.1169
Serviceability - 60 mph Wind 240 deg	100.25	0.118	0.0074	0.1519	0.1519
Serviceability - 60 mph Wind 240 deg	126.75	0.194	0.0083	0.1813	0.1815
Serviceability - 60 mph Wind 240 deg	150.00	0.276	0.0091	0.2248	0.2248
Serviceability - 60 mph Wind 240 deg	159.75	0.315	0.0098	0.2590	0.2590
Serviceability - 60 mph Wind 240 deg	168.05	0.351	0.0097	0.2544	0.2546
Serviceability - 60 mph Wind 240 deg	175.85	0.386	0.0096	0.2566	0.2568
Serviceability - 60 mph Wind 240 deg	184.19	0.424	0.0094	0.2587	0.2588
Serviceability - 60 mph Wind 240 deg	188.13	0.442	0.0093	0.2634	0.2635
Serviceability - 60 mph Wind 240 deg	192.06	0.460	0.0093	0.2607	0.2608
Serviceability - 60 mph Wind 300 deg	79.75	0.071	0.0060	0.1148	0.1148

Site Number: 302470

Code:

ANSI/TIA-222-G

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Site Name: Ansonia Wakelee, CT

Engineering Number: OAA690439_C3_02

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Customer: AT&T Mobility

Force/Stress Summary

Serviceability - 60 mph Wind 300 deg	100.25	0.114	0.0072	0.1476	0.1476
Serviceability - 60 mph Wind 300 deg	126.75	0.188	0.0082	0.1765	0.1766
Serviceability - 60 mph Wind 300 deg	150.00	0.268	0.0090	0.2185	0.2185
Serviceability - 60 mph Wind 300 deg	159.75	0.306	0.0097	0.2542	0.2542
Serviceability - 60 mph Wind 300 deg	168.05	0.341	0.0096	0.2480	0.2480
Serviceability - 60 mph Wind 300 deg	175.85	0.375	0.0095	0.2495	0.2497
Serviceability - 60 mph Wind 300 deg	184.19	0.412	0.0094	0.2520	0.2521
Serviceability - 60 mph Wind 300 deg	188.13	0.430	0.0094	0.2570	0.2570
Serviceability - 60 mph Wind 300 deg	192.06	0.447	0.0094	0.2536	0.2538
Serviceability - 60 mph Wind 330 deg	79.75	0.072	0.0035	0.1149	0.1149
Serviceability - 60 mph Wind 330 deg	100.25	0.115	0.0042	0.1469	0.1469
Serviceability - 60 mph Wind 330 deg	126.75	0.189	0.0047	0.1777	0.1779
Serviceability - 60 mph Wind 330 deg	150.00	0.270	0.0051	0.2193	0.2194
Serviceability - 60 mph Wind 330 deg	159.75	0.308	0.0056	0.2531	0.2531
Serviceability - 60 mph Wind 330 deg	168.05	0.343	0.0055	0.2494	0.2494
Serviceability - 60 mph Wind 330 deg	175.85	0.378	0.0054	0.2525	0.2527
Serviceability - 60 mph Wind 330 deg	184.19	0.415	0.0053	0.2547	0.2548
Serviceability - 60 mph Wind 330 deg	188.13	0.432	0.0053	0.2584	0.2584
Serviceability - 60 mph Wind 330 deg	192.06	0.450	0.0052	0.2555	0.2557



Radio Frequency Emissions Analysis Report

AT&T Existing Facility

Site ID: CT2091

Ansonia NW
401 Wakalee Avenue
Ansonia, CT 6401

January 27, 2017

Centerline Communications Project Number: 950006-026

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	6.38 %



January 27, 2017

AT&T Mobility – New England
Attn: John Benedetto, RF Manager
550 Cochituate Road
Suite 550 – 13&14
Framingham, MA 06040

Emissions Analysis for Site: **CT2091 – Ansonia NW**

Centerline Communications, LLC (“Centerline”) was directed to analyze the proposed AT&T facility located at **401 Wakalee Avenue, Ansonia, CT**, for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property 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 and 850 MHz Bands are approximately $467 \mu\text{W}/\text{cm}^2$ and $567 \mu\text{W}/\text{cm}^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 2300 MHz (WCS) bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



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 (see below), 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 AT&T Wireless antenna facility located at **401 Wakalee Avenue, Ansonia, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing highly focused directional panel 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. 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.

All emissions values for additional carriers were taken from the Connecticut Siting Council (CSC) active MPE database. Values in this database are provided by the individual carriers themselves

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

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
UMTS	850 MHz	2	30
UMTS	1900 MHz (PCS)	2	30
GSM	850 MHz	2	30
LTE	2300 MHz (WCS)	2	60
LTE	700 MHz	2	60
LTE	1900 MHz (PCS)	2	60

Table 1: Channel Data Table



The following antennas listed in *Table 2* were used in the modeling for transmission in the 700 MHz, 850 MHz, 1900 MHz (PCS) and 2300 MHz (WCS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	Powerwave 7770	167
A	2	CCI OPA-65R-LCUU-H6	167
A	3	Quintel QS66512-2	167
B	1	Powerwave 7770	167
B	2	CCI OPA-65R-LCUU-H8	167
B	3	Quintel QS66512-2	167
C	1	Powerwave 7770	167
C	2	CCI OPA-65R-LCUU-H6	167
C	3	Quintel QS66512-2	167

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.

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	Powerwave 7770	850 MHz / 1900 MHz (PCS)	11.4 / 13.4	4	120	2,140.89	0.38
Antenna A2	CCI OPA-65R-LCUU-H6	850 MHz / 2300 MHz (WCS)	12.45 / 15.45	4	180	5,263.78	0.84
Antenna A3	Quintel QS66512-2	700 MHz / 1900 MHz (PCS)	10.85 / 13.85	4	240	4,371.36	0.84
Sector A Composite MPE%							2.06
Antenna B1	Powerwave 7770	850 MHz / 1900 MHz (PCS)	11.4 / 13.4	4	120	2,140.89	0.38
Antenna B2	CCI OPA-65R-LCUU-H8	850 MHz / 2300 MHz (WCS)	13.35 / 14.95	4	180	5,048.93	0.84
Antenna B3	Quintel QS66512-2	700 MHz / 1900 MHz (PCS)	10.85 / 13.85	4	240	4,371.36	0.84
Sector B Composite MPE%							2.06
Antenna C1	Powerwave 7770	850 MHz / 1900 MHz (PCS)	11.4 / 13.4	4	120	2,140.89	0.38
Antenna C2	CCI OPA-65R-LCUU-H6	850 MHz / 2300 MHz (WCS)	12.45 / 15.45	4	180	5,263.78	0.84
Antenna C3	Quintel QS66512-2	700 MHz / 1900 MHz (PCS)	10.85 / 13.85	4	240	4,371.36	0.84
Sector C Composite MPE%							2.06

Table 3: AT&T Emissions Levels



The Following table (*table 4*) shows all additional carriers on site and their MPE% as recorded in the CSC active MPE database for this facility along with the newly calculated maximum AT&T MPE contributions per this report. 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. For this site, all three sectors have similar configurations yielding the same results on all three sectors. *Table 5* below shows a summary for each AT&T Sector as well as the composite MPE value for the site.

Site Composite MPE%	
Carrier	MPE%
AT&T – Max Sector Value	2.06 %
MetroPCS	0.30 %
Clearwire	0.05 %
Sprint	0.93 %
Verizon Wireless	1.04 %
T-Mobile	2.00 %
Site Total MPE %:	6.38 %

Table 4: All Carrier MPE Contributions

AT&T Sector A Total:	2.06 %
AT&T Sector B Total:	2.06 %
AT&T Sector C Total:	2.06 %
Site Total:	6.38 %

Table 5: Site MPE Summary



Per FCC OET 65, carriers utilizing directional antennas recommends 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 6* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s). For this site, all three sectors have similar configurations yielding the same results on all three sectors. Sector A values are shown below.

AT&T _ Frequency Band / Technology	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
AT&T 850 MHz UMTS	2	414.12	167	1.15	850 MHz	567	0.20%
AT&T 1900 MHz (PCS) UMTS	2	656.33	167	1.82	1900 MHz (PCS)	1000	0.18%
AT&T 850 MHz GSM	2	527.38	167	1.46	850 MHz	567	0.26%
AT&T 2300 MHz (WCS) LTE	2	2,104.51	167	5.84	2300 MHz (WCS)	1000	0.58%
AT&T 700 MHz LTE	2	729.71	167	2.02	700 MHz	467	0.43%
AT&T 1900 MHz (PCS) LTE	2	1,455.97	167	4.04	1900 MHz (PCS)	1000	0.40%
						Total:	2.06%

Table 6: 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:

AT&T Sector	Power Density Value (%)
Sector A:	2.06 %
Sector B:	2.06 %
Sector C:	2.06 %
AT&T Maximum Total (per sector):	2.06 %
Site Total:	6.38 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **6.38 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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.

A handwritten signature in black ink, appearing to read 'Scott Heffernan', is positioned above the printed name.

Scott Heffernan
RF Engineering Director
Centerline Communications, LLC
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Raynham, MA 02767