



January 7, 2015

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

Regarding: Notice of Exempt Modification – Antenna Swap &
Addition of Three Radio Heads
Property Address: 180A Bayberry Lane, Westport, Fairfield County,
CT 06880

Dear Ms. Bachman:

AT&T currently maintains a wireless telecommunications facility on an existing 141-foot monopole at the above-referenced address, latitude 41.1716589, longitude -73.3284711. Said monopole is owned by American Tower Corporation. The existing equipment compound is 25' x 21.5' totaling 537.5 square feet.

AT&T desires to modify its existing telecommunications facility by swapping three (3) antennas and adding three remote-radio heads ("RRHs"). The centerline height of said antennas is and will remain at 100 feet. Antennas are mounted utilizing a low profile platform.

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 Jim Marpe, First Selectmen for the Town of Westport. A copy of this letter is also being sent to the property owner American Towers Corporation.

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 100 feet on the 141-foot monopole.
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 monopole and its foundation can support AT&T's proposed modifications (please see attached structural analysis completed by American Tower dated November 23, 2015).

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

Sincerely,



Sarah Snell
Site Acquisition Specialist

cc: Jim Marpe, First Selectmen Town of Westport
American Tower Corporation

PROJECT INFORMATION

- SCOPE OF WORK:
- AT&T ANTENNAS: (1) NEW ANTENNA PER SECTOR, FOR A TOTAL (3) NEW ANTENNAS. (2) EXISTING ANTENNAS PER SECTOR, FOR A TOTAL (3) ANTENNAS. (3) EXISTING ANTENNAS TO BE REMOVED. (3) SECTORS, FOR A TOTAL (3) EXISTING ANTENNAS TO BE REMOVED.
 - AT&T RRUS: (1) NEW RRU PER SECTOR WITH (3) SECTORS, FOR A TOTAL OF (3) NEW RRUS. (1) NEW A2 MODULE PER SECTOR FOR (3) SECTORS, FOR A TOTAL OF (3) NEW A2 MODULES. (1) EXISTING RRU PER SECTOR TO BE REUSED, FOR A TOTAL OF (3) EXISTING RRUS.
 - AT&T SOUND: (1) EXISTING DC-B SOUND TO REMAIN.

SITE ADDRESS: 180A BAYBERRY LANE
WESTPORT, CT 06880

LATITUDE: 41° 17' 16.589" N
LONGITUDE: -73° 32' 8.711" W
USID: 60394

TOWER OWNER: T&B

TYPE OF SITE: MONOPOLE/INDOOR EQUIPMENT

STRUCTURE HEIGHT: 140'-0"±

R&D CENTER: 100'-0"±

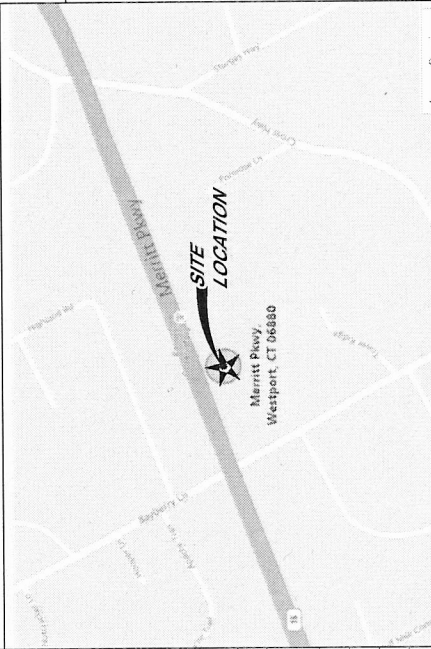
CURRENT USE: UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY
PROPOSED USE: UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY



FA CODE: 10034981
SITE NUMBER: CT2107
SITE NAME: WESTPORT

VICINITY MAP

2107 WESTPORT EXIT 42 SOUTHBOUND PARKWAY TAKE RIGHT AT END OF WESTPORT ROAD, TURN RIGHT ON BAYBERRY LANE FOR 1/4 MILES FOLLOW UNTIL UNDER PASS NEXT LEFT



SITE NUMBER: CT2107
SITE NAME: WESTPORT
180A BAYBERRY LANE
WESTPORT, CT 06880
FAIRFIELD COUNTY

PROJECT TEAM

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

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

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

COM-EX CONSULTANTS, LLC
4 SECOND AVENUE
DENVER, CO 80202
CONTACT: NICHOLAS D. BARILE, P.E.
PHONE: 882-209-4300
EMAIL: nbarile@comexconsultants.com

RF ENGINEER:
AT&T MOBILITY - NEW ENGLAND
550 COCHITUATE ROAD
SUITE 550, 13 & 14
FRAMINGHAM, MA 01701
CONTACT: CAMERON SYME
PHONE: 508-598-7148
EMAIL: cs9770@att.com

CONSTRUCTION MANAGEMENT:
EMPIRE TELECOM
16 ESQUIRE ROAD
BILLERICA, MA 01821
CONTACT: GREG DORMAN
PHONE: 617-639-4908
EMAIL: gdorman@empiretelecomm.com

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 PROVIDING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSIBLE BY AUTHORIZED PERSONNEL. THEREFORE, IT DOES NOT REQUIRE A WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT COVERED 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.



CONNECTICUT LAW REQUIRES
TWO WORKING DAYS NOTICE PRIOR TO
REVISIONS. CONTACT THE PROJECT ENGINEER
CALLING 800-922-4455 OR DIAL 811

DRAWING INDEX

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APPROVALS

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

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

COM-EX Consultants
4 SECOND AVENUE
DENVER, CO 80202
P.O. BOX 209, 201

EMPIRE telecom
16 ESQUIRE ROAD
BILLERICA, MA 01821



SITE NUMBER: CT2107
SITE NAME: WESTPORT
180A BAYBERRY LANE
WESTPORT, CT 06880
FAIRFIELD COUNTY

AT&T

DRAWING TITLE	TITLE SHEET
JOB NUMBER	DRAWING NUMBER
15125-EMP	T-1

NO.	DATE	INITIAL SUBMISSION	REVISIONS	BY	CHK	APPD
A	11/14/75					

DESIGNED BY: N/A
DRAWN BY: N/A

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) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING REQUIREMENTS. THE SUBCONTRACTOR SHALL VERIFY ALL SOLUTIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GROUNDING) SHALL BE BONDED TOGETHER 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. GROUNDING SYSTEMS SHALL BE TESTED TO VERIFY THE SUPPLEMENTAL GROUNDING SYSTEMS ARE BONDING TO THE MAIN SUPPLEMENTAL GROUNDING OR LESS TESTS SHALL BE PERFORMED IN ACCORDANCE WITH 25471-0001-SFS-EG00-0001. DESIGN & TESTING OF FACILITY GROUNDING FOR CELL SITES.
4. METAL FRAME SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BITS EQUIPMENT.
5. EACH BITS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES. 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BITS, 2 AWG STRANDED COPPER FOR OUTDOOR BITS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTI-OXIDANT 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 DETERMINED THAT METALLIC OBJECTS ARE NECESSARY TO PROTECT THE 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-C 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 3/4" OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID THINNED COPPER GROUND WIRE. PER NEC 250-30.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, 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 UTILITIES COMPANY, MUNICIPAL, STATE, FEDERAL, AND LOCAL GOVERNMENT. THE SUBCONTRACTOR 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 CONTRACTOR 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 EXISTING TRAYS AND/OR SHALL PROVIDE 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 AND STRUCTURES. 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-JAFS-A00Z-0000Z. "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. ALL SAFETY PRECAUTIONS ARE REQUIRED TO BE WORK 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.
 • INTERNATIONAL BUILDING CODE: IBC 2009 WITH LOCAL & COUNTY AMENDMENTS
 • NATIONAL ELECTRICAL CODE: NEC 2011 WITH LOCAL & COUNTY AMENDMENTS
 • PRE/LIFE SAFETY CODE: NFPA-101 2009 WITH LOCAL & COUNTY AMENDMENTS
 • 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 807 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 RESISTIVITY, 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. THE CONTRACTOR SHALL VERIFY THAT ALL CODES, STANDARDS, 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.
23. INFORMATION SHOWN ON THIS SET OF PLANS TAKEN FROM DRAWINGS PREPARED BY CENTEK ENGINEERING FOR A RECENT UPGRADE DATED 03/25/2011. CONTRACTOR TO NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.

COM-EX CONSULTANTS
 4 STATE ST SUITE 204
 BILLERICA, MA 01821
 PHONE 978.239.5200
 FAX 978.269.1001

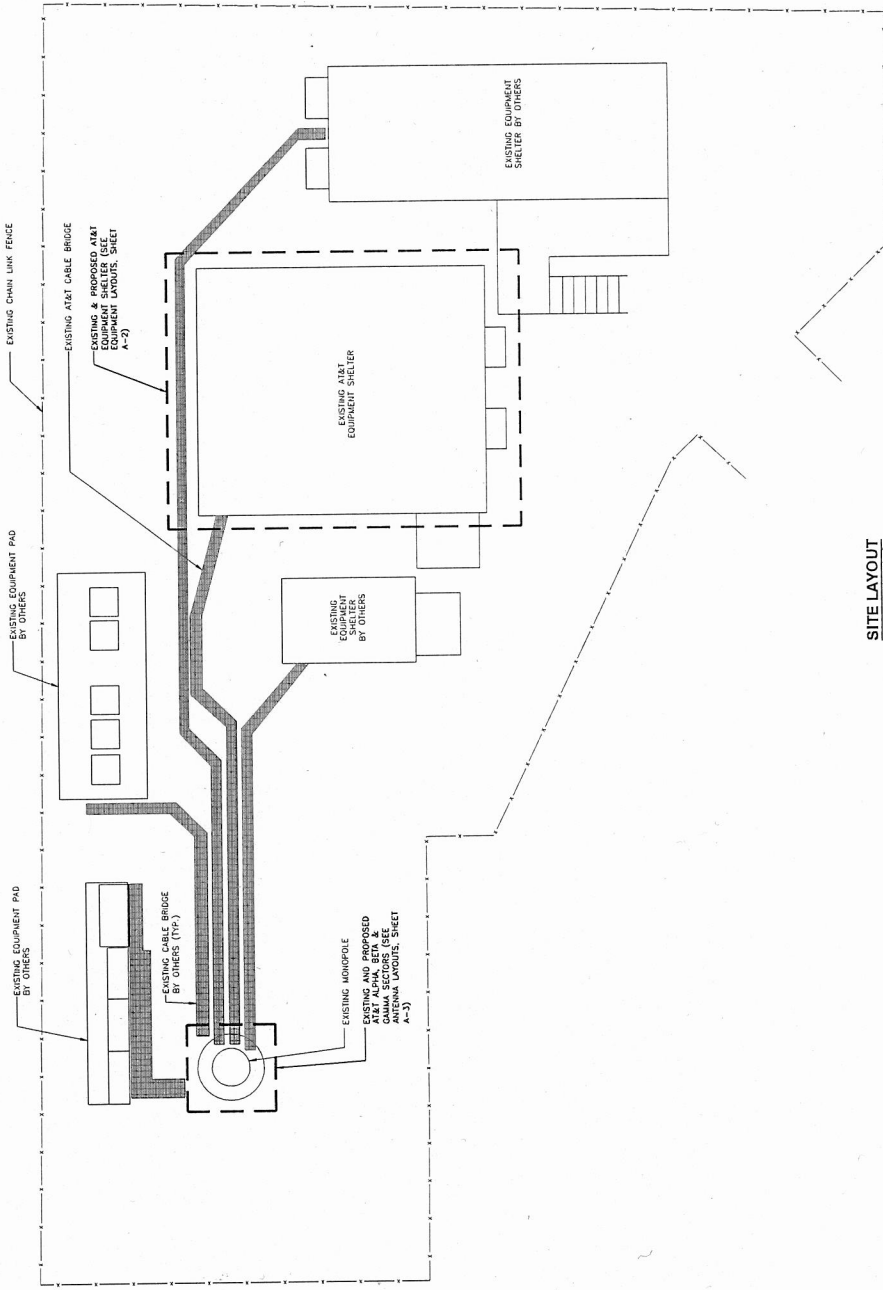
EMPIRE telecom
 16 ESQUIRE ROAD
 BILLERICA, MA 01821

SITE NUMBER: CT2107
 SITE NAME: WESTPORT
 180A BAYBERRY LANE
 WESTPORT, CT 06880
 FAIRFIELD COUNTY

at&t MOBILITY
 550 COCHITUATE ROAD
 FARMINGHAM, MA 01701

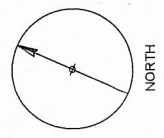
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JOB NUMBER	DRAWING NUMBER	15725-EMP	GN-1
DESIGNED BY: N.M.	DRAWN BY: N.M.	REVISIONS	DATE
INITIAL SUBMISSION	N.M.	NDB	NDB
REVISIONS	BY	CHK	RPTD
SCALE: AS SHOWN	DESIGNED BY: N.M.	DRAWN BY: N.M.	

AT&T



NOTE: ENGINEERS SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE PRIOR TO COMMENCEMENT OF WORK. ENGINEERS SHALL BE RESPONSIBLE FOR THE CORRECTNESS AND ACCURACY OF THE DRAWINGS. THE ENGINEER MAY DISCREPANCIES FROM THE DRAWINGS.

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



DRAWING TITLE		SITE LAYOUT	
JOB NUMBER	15125-EMP	DRAWING NUMBER	A-1

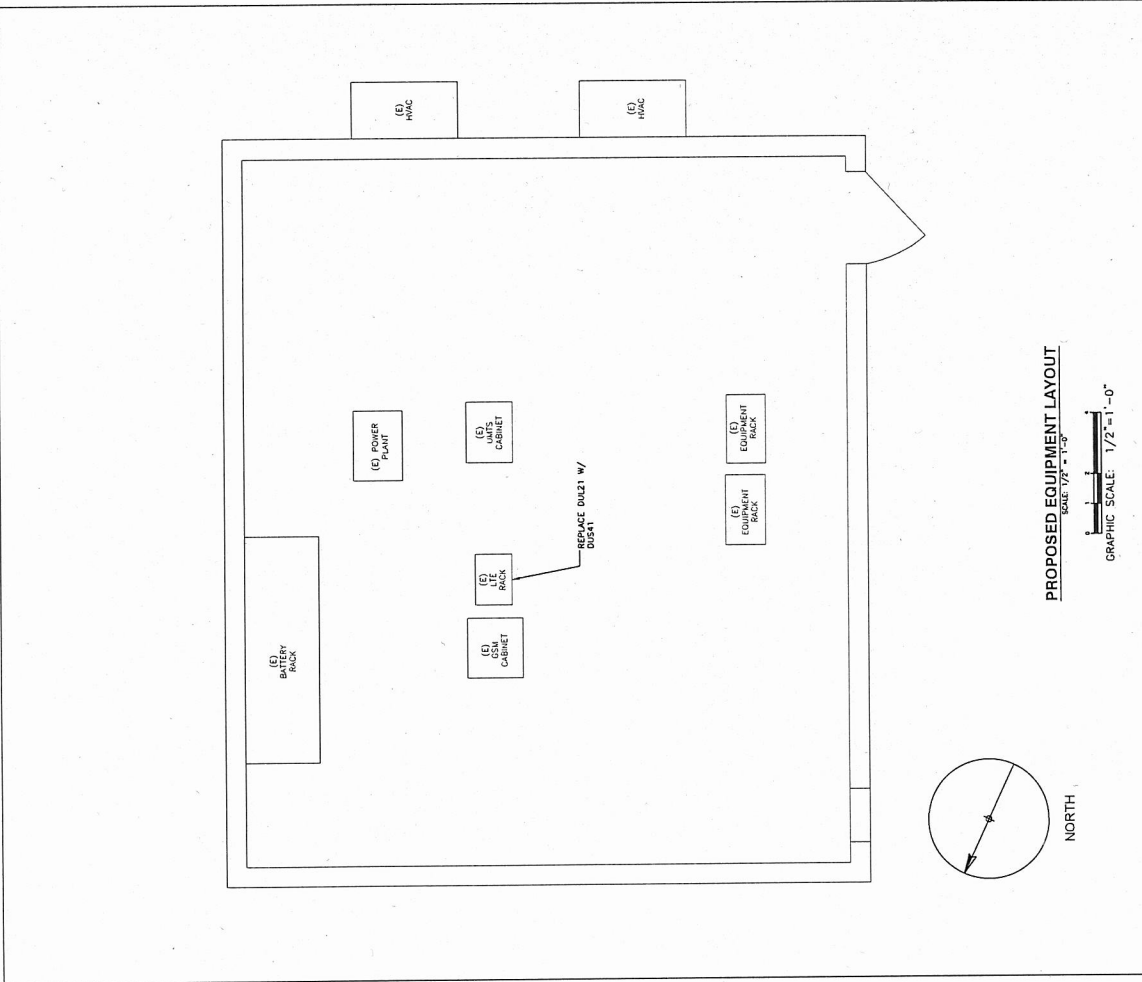
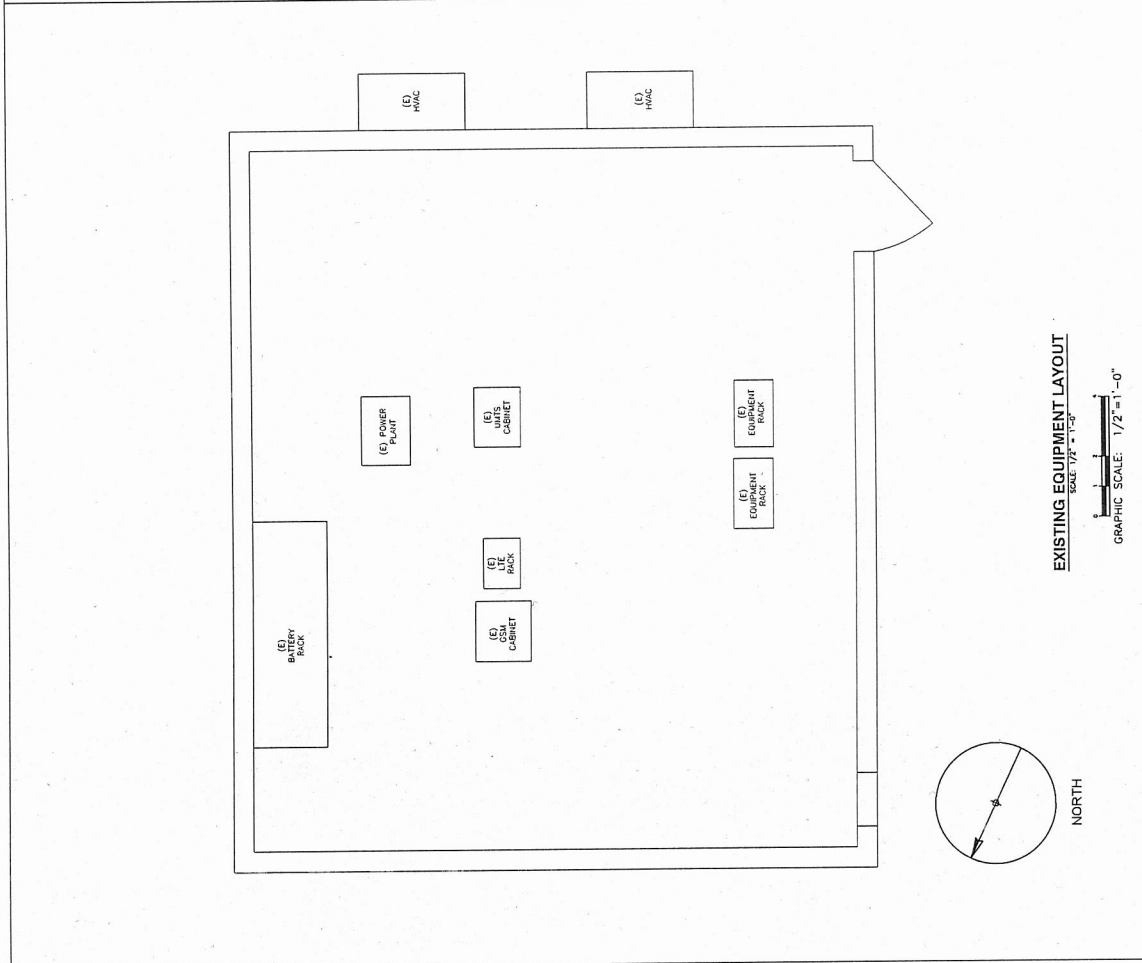
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SCALE	AS SHOWN	DESIGNED BY	NJM	DRAWN BY	NJM

at&t
 MOBILITY
 550 COCHITUATE ROAD
 FARMINGHAM, MA 01701

SITE NUMBER: CT2107
 SITE NAME: WESTPORT
 180A BAYBERRY LANE
 WESTPORT, CT 06880
 FAIRFIELD COUNTY

EMPIRE
telecom
 16 ESCURE ROAD
 BILLERICA, MA 01821

COM-EX
 Consultants
 4 SECOND AVENUE
 BOSTON, MA 02109
 TEL: 617.267.4300
 FAX: 617.267.4301



COM-EX
CONSULTANTS
4 SOUTH ZONNE
PHOENIX, AZ 85004
PHONE: 602.209.1300
FAX: 602.209.4501

EMPIRE
telecom
BILERICA, MA 01821

SITE NUMBER: CT2107
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180A BAYBERRY LANE
WESTPORT, CT 06880
FAIRFIELD COUNTY

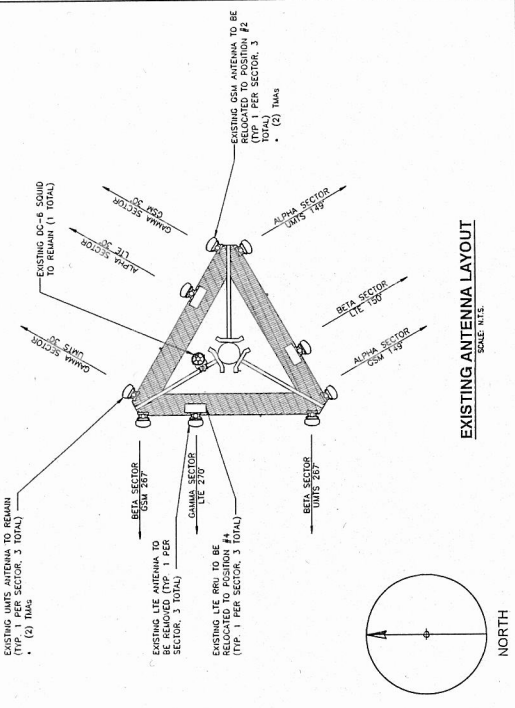
at&t
MOBILITY
550 COCAINATE ROAD
FRAMMINGHAM, MA 01701

NO.	DATE	SCALE AS SHOWN	DESIGNED BY: NJM	DRAWN BY: NJM
A	11/14/15			
		INITIAL SUBMISSION	NJM	JDS
		REVISIONS	BT	CHK: JPD

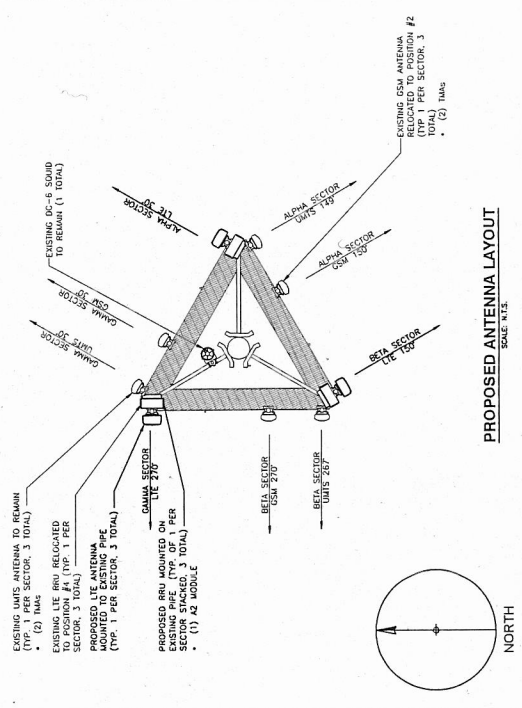
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JOB NUMBER	15125-EMP	DRAWING NUMBER	A-2
REV		REV	A

AT&T

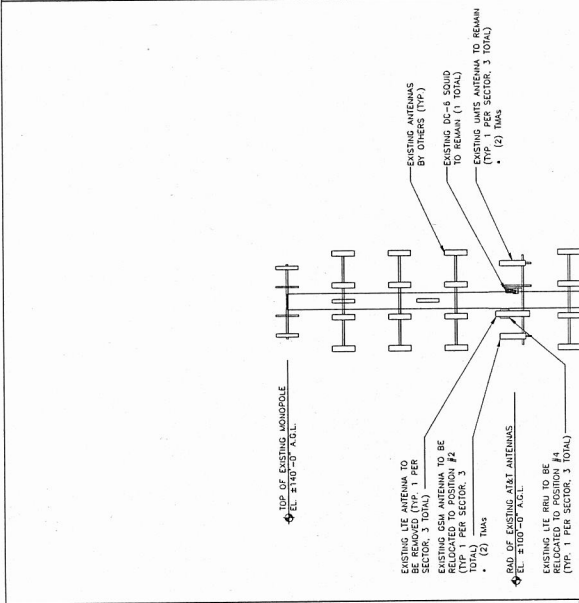
PROJECT OWNER IS RESPONSIBLE FOR PROVIDING A STRUCTURAL STABILITY ANALYSIS TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE STRUCTURE TO BE CONSTRUCTED CAN SAFELY CARRY ALL ADDITIONAL LOADS IMPOSED BY THE PROPOSED EQUIPMENT AS SHOWN HEREIN. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCORPORATING ANY REQUIRED STRUCTURAL MODIFICATIONS INTO THE SCOPE OF WORK.



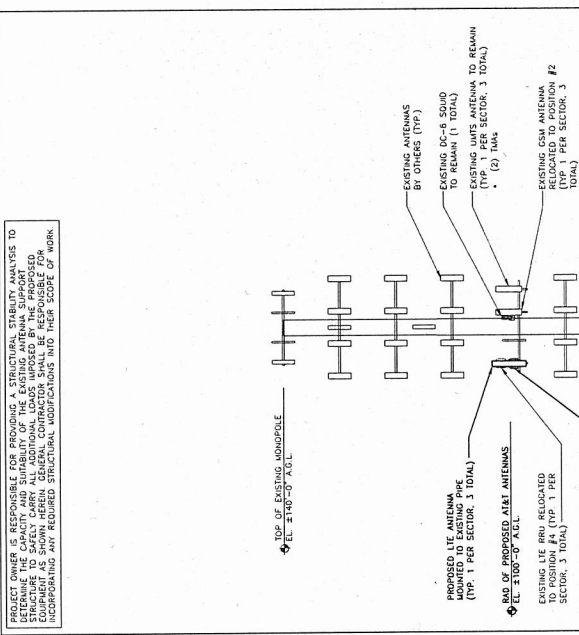
EXISTING ANTENNA LAYOUT
SCALE: N.T.S.



PROPOSED ANTENNA LAYOUT
SCALE: N.T.S.

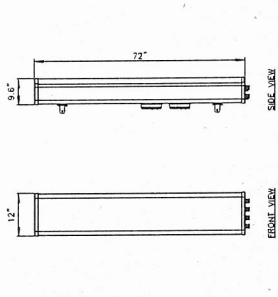


EXISTING TOWER ELEVATION
SCALE: N.T.S.



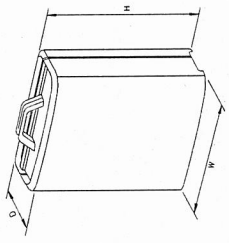
PROPOSED TOWER ELEVATION
SCALE: N.T.S.

<p>COM-EX CONSULTANTS 4 SHUTE ROAD PO BOX 862209 LOS ANGELES, CA 90086 PHONE: 862.209.1300 FAX: 862.209.4501</p>		<p>EMPIRE telecom BILLERICA, MA 01821</p>		<p>SITE NUMBER: CT12107 SITE NAME: WESTPORT 180A BAYBERRY LANE WESTPORT, MA 01886 FAIRFIELD COUNTY</p>		<p>at&t MOBILITY 550 COCHITUATE ROAD FRAMINGHAM, MA 01701</p>		<p>SCALE: AS SHOWN</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS</th> <th>BY</th> <th>CHK</th> <th>APPD</th> </tr> <tr> <td>A</td> <td>11/14/15</td> <td>INITIAL SUBMISSION</td> <td>JMM</td> <td>JMS</td> <td></td> </tr> </table> <p>DESIGNED BY: JMM DRAWN BY: JMM</p>		NO.	DATE	REVISIONS	BY	CHK	APPD	A	11/14/15	INITIAL SUBMISSION	JMM	JMS		<p>DRAWING TITLE: ANTENNA LAYOUTS & ELEVATIONS</p> <table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>A-3</td> <td>15125-EMP</td> <td>DRAWING NUMBER</td> </tr> </table>		REV	DATE	DESCRIPTION	A-3	15125-EMP	DRAWING NUMBER
NO.	DATE	REVISIONS	BY	CHK	APPD																								
A	11/14/15	INITIAL SUBMISSION	JMM	JMS																									
REV	DATE	DESCRIPTION																											
A-3	15125-EMP	DRAWING NUMBER																											



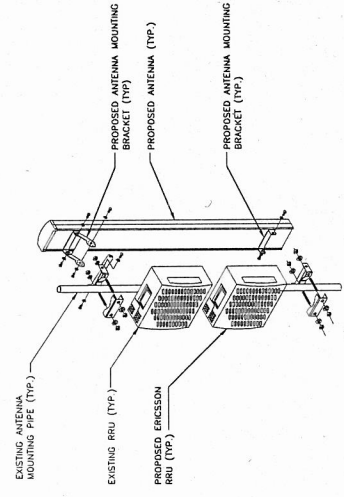
MANUFACTURER	MODEL	WEIGHT
CCI	HPA-65R-BUJ-H6	50.7 LBS

LTE ANTENNA DETAIL
SCALE: N.T.S.



MODEL	L x W x H	WEIGHT
RRUS-11	19.89" x 19.97" x 7.17"	50.7 LBS
RRUS-12	19.89" x 19.97" x 7.17"	50.7 LBS
AZ MODULE	18.4" x 15.2" x 3.4"	22 LBS

RRU DETAIL
SCALE: N.T.S.



ANTENNA AND RRU MOUNTING DETAIL
SCALE: N.T.S.

SECTOR	POSITION	MAKE	MODEL	SIZE (INCHES)
ALPHA	A1	POWERWAVE	7770.00.850.06	55" x 11" x 5"
	A2	—	—	—
	A3	POWERWAVE	P65E-16-XLH-RR	72" x 12" x 6"
	A4	POWERWAVE	7770.00.850.06	55" x 11" x 5"
BETA	B1	POWERWAVE	7770.00.850.06	55" x 11" x 5"
	B2	—	—	—
	B3	POWERWAVE	P65E-16-XLH-RR	72" x 12" x 6"
	B4	POWERWAVE	7770.00.850.06	55" x 11" x 5"
GAMMA	G1	POWERWAVE	7770.00.850.06	55" x 11" x 5"
	G2	—	—	—
	G3	POWERWAVE	P65E-16-XLH-RR	72" x 12" x 6"
	G4	POWERWAVE	7770.00.850.06	55" x 11" x 5"

SECTOR	POSITION	MAKE	MODEL	SIZE (INCHES)
ALPHA	A1	POWERWAVE	7770.00.850.06	55" x 11" x 5"
	A2	POWERWAVE	7770.00.850.06	55" x 11" x 5"
	A3	—	—	—
	A4	CCI	HPA-65R-BUJ-H6	72" x 14.8" x 9"
BETA	B1	POWERWAVE	7770.00.850.06	55" x 11" x 5"
	B2	POWERWAVE	7770.00.850.06	55" x 11" x 5"
	B3	—	—	—
	B4	CCI	HPA-65R-BUJ-H6	72" x 14.8" x 9"
GAMMA	G1	POWERWAVE	7770.00.850.06	55" x 11" x 5"
	G2	POWERWAVE	7770.00.850.06	55" x 11" x 5"
	G3	—	—	—
	G4	CCI	HPA-65R-BUJ-H6	72" x 14.8" x 9"

PROJECT OWNER IS RESPONSIBLE FOR PROVIDING A STRUCTURAL EXHIBIT ANALYSIS TO DETERMINE THE CAPACITY AND STABILITY OF THE EXISTING ANTENNA SUPPORT STRUCTURE. THE CONTRACTOR SHALL VERIFY THE EXISTING STRUCTURE IS CAPABLE OF SUPPORTING THE ANTENNA AND RRU. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCORPORATING ANY REQUIRED STRUCTURAL MODIFICATIONS INTO THEIR SCOPE OF WORK.

SECTOR	MAKE	MODEL	SIZE (INCHES)	ADDITIONAL COMPONENT	SIZE (INCHES)
ALPHA	ERICSSON	RRUS-11	19.7" x 19.9" x 7.2"	ERICSSON AZ MODULE	16.4" x 15.2" x 3.4"
	—	—	—	—	—
BETA	ERICSSON	RRUS-12	19.7" x 19.9" x 7.2"	ERICSSON AZ MODULE	16.4" x 15.2" x 3.4"
	—	—	—	—	—
GAMMA	ERICSSON	RRUS-11	19.7" x 19.9" x 7.2"	ERICSSON AZ MODULE	16.4" x 15.2" x 3.4"
	—	—	—	—	—

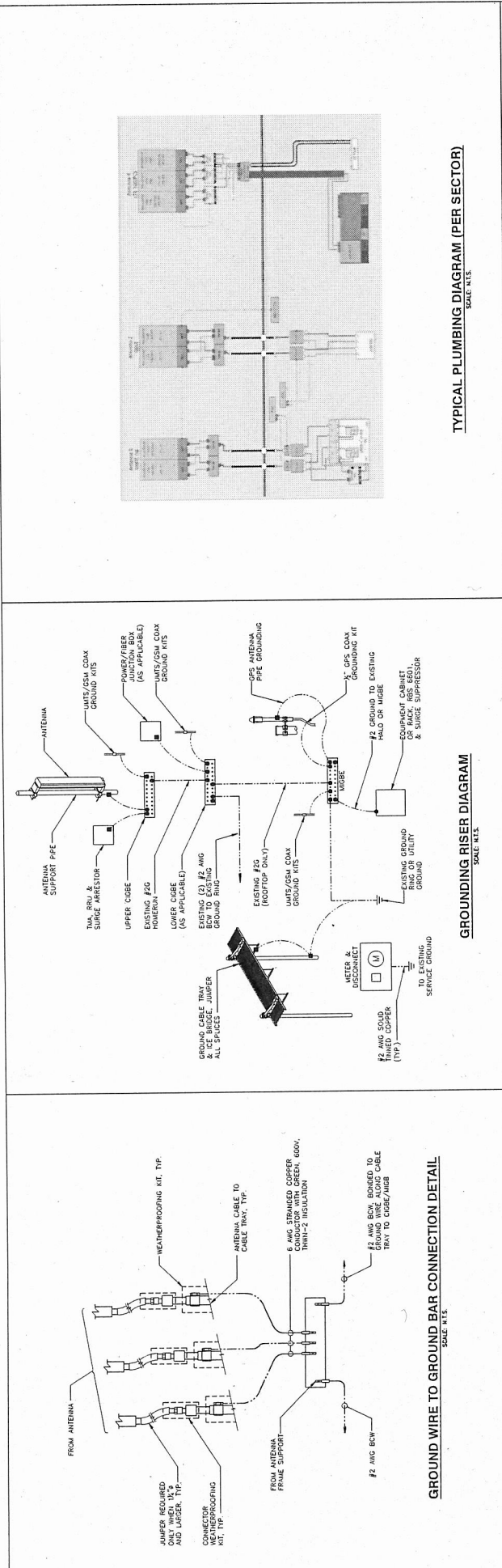
COM-EX
CONSULTANTS
4 STATE ZONE
1000 STATE ST
PO BOX 962 200 100
TAYLOR, MI 48181
TEL: 800.289.4011

EMPIRE
telecom
BILLERICA, MA 01821

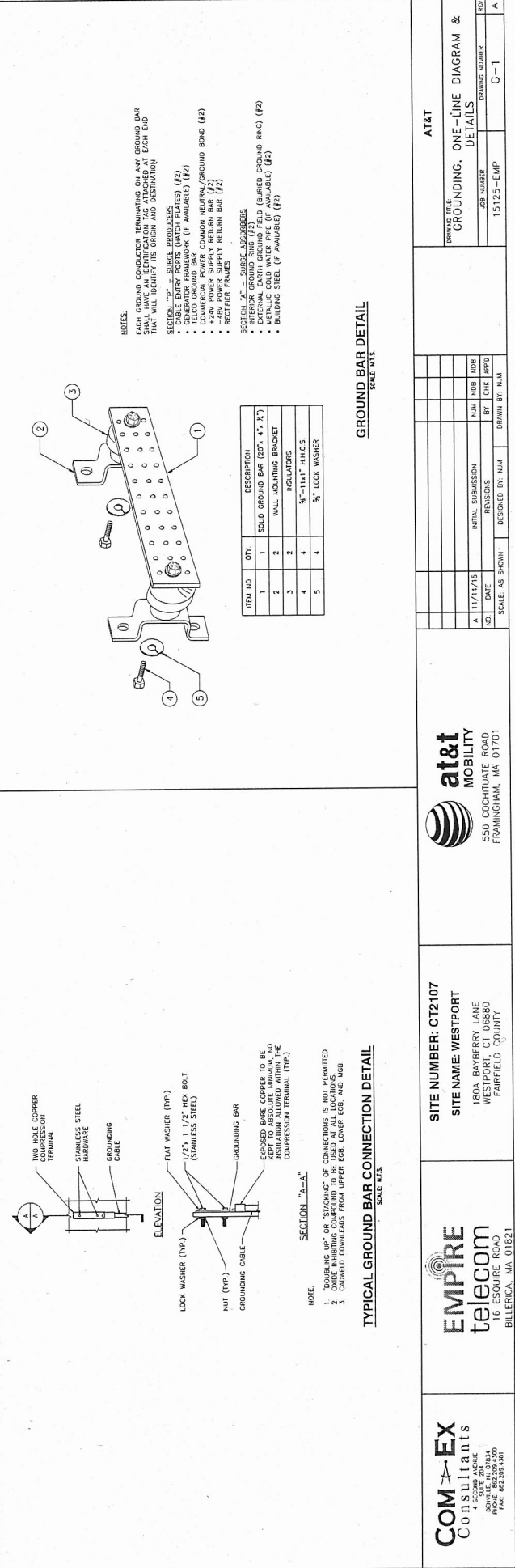
SITE NUMBER: CT2107
SITE NAME: WESTPORT
180A BAYBERRY LANE
WESTPORT, CT 06880
FAIRFIELD COUNTY

at&t
MOBILITY
550 COUNTESS ROAD
FRAMINGHAM, MA 01701

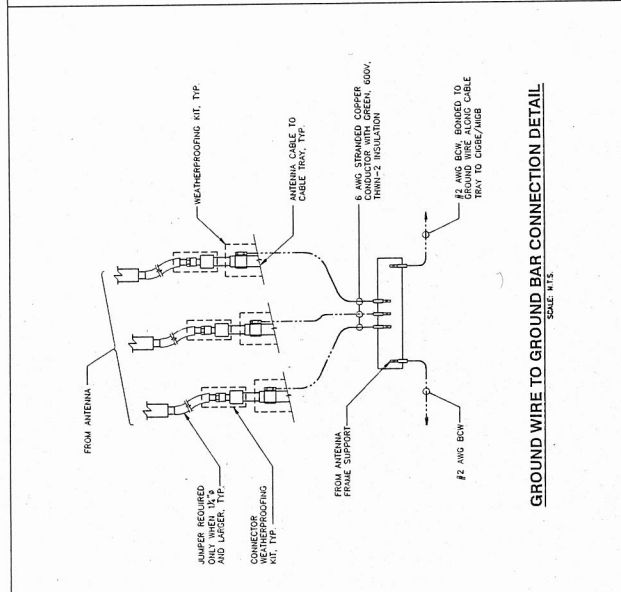
AT&T
DRAWING TITLE
DETAILS
JOB NUMBER
15125-EMP
DRAWING NUMBER
A-4



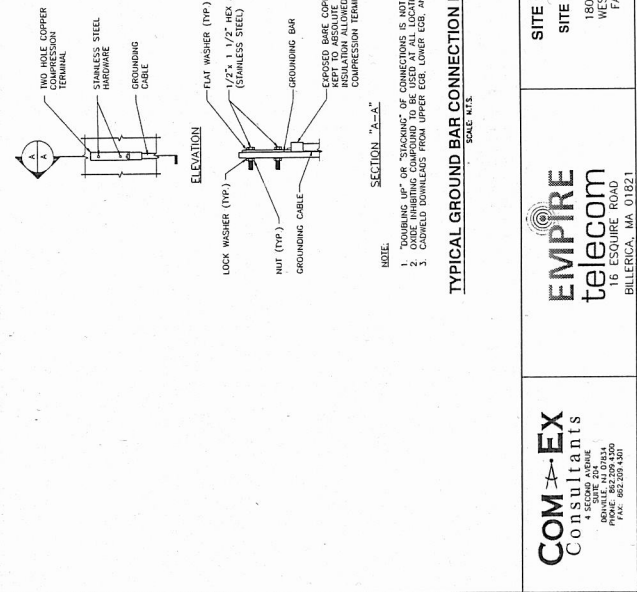
TYPICAL PLUMBING DIAGRAM (PER SECTOR)
SCALE: N.T.S.



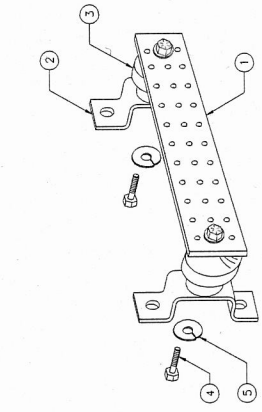
GROUNDING RISER DIAGRAM
SCALE: N.T.S.



GROUND WIRE TO GROUND BAR CONNECTION DETAIL
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 1/2")
2	2	WALL MOUNTING BRACKET
3	2	INSULATORS
4	4	3/8"-11x1" NUTS
5	4	3/8" LOCK WASHER

GROUND BAR DETAIL
SCALE: N.T.S.

NOTES:
 1. ALL GROUND CONNECTIONS REMAINING ON ANY EXISTING BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.
 SECTION "TP" - SURGE PRODUCERS
 • CABLE ENTRY PORTS (MATCH PLATES) (F2)
 • FUSED GROUND BAR (IF AVAILABLE) (F2)
 • FUSED GROUND BAR (IF AVAILABLE) (F2)
 • COAX POWER SUPPLY RETURN BAR (F2)
 • COAX POWER SUPPLY RETURN BAR (F2)
 • RECIPER FRAMES
 SECTION "S" - SURGE ARRESTORS
 • SURGE ARRESTORS (F2)
 • EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (F2)
 • METALLIC COLD WATER PIPE (IF AVAILABLE) (F2)
 • BUILDING STEEL (IF AVAILABLE) (F2)

COM-EX
Consultants

4500 STATE ST.
SUITE 200
ROSELAND, NJ 07068
PHONE: 973.299.1200
FAC: 973.299.1201

EMPIRE
telecom

180A BAYBERRY LANE
WESTPORT, CT 06880
FAIRFIELD COUNTY

at&t
MOBILITY

550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

SITE NUMBER: CT2107
 SITE NAME: WESTPORT

DRAWING TITLE: GROUNDING, ONE-LINE DIAGRAM & DETAILS

DATE	11/17/75	INITIAL	SUBMISSION	NUM	REVISION	DESIGNED BY:	NUM	DRAWN BY:	NUM
NO.									

SCALE: AS SHOWN

AT&T

PROJECT NO.: 151123-EMP

DRAWING NUMBER: G-1

REV: A



EBI Consulting

environmental | engineering | due diligence

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

AT&T Existing Facility

Site ID: CT2107

Westport
180a Bayberry Lane
Westport, CT 06880

January 5, 2016

EBI Project Number: 6616000019

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general public allowable limit:	11.27 %

January 5, 2016

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

Emissions Analysis for Site: **CT2107 – Westport**

EBI Consulting was directed to analyze the proposed AT&T facility located at **180a Bayberry Lane, Westport, 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 public 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 public 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.

Public 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 done for the proposed AT&T Wireless antenna facility located at **180a Bayberry Lane, Westport, 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.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 LTE channels (700 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 2) 2 LTE channels (PCS Band – 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 3) 4 GSM channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 4) 2 UMTS channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 5) 2 UMTS channels (PCS Band – 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

- 6) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. 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. This is rarely the case, and if so, is never continuous.
- 7) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 8) The antennas used in this modeling are the **CCI HPA-65R-BUU-H6 and the Powerwave 7770.00** for transmission in the 700 MHz, 850 MHz and 1900 MHz (PCS) 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.
- 9) The antenna mounting height centerline of the proposed antennas is **100 feet** above ground level (AGL).
- 10) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

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

AT&T Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	CCI OPA-65R-BUU-H6	Make / Model:	CCI OPA-65R-BUU-H6	Make / Model:	CCI OPA-65R-BUU-H6
Gain:	11.95 / 14.75 dBd	Gain:	11.95 / 14.75 dBd	Gain:	11.95 / 14.75 dBd
Height (AGL):	100 feet	Height (AGL):	100 feet	Height (AGL):	100 feet
Frequency Bands	700 MHz / 1900 MHz (PCS)	Frequency Bands	700 MHz / 1900 MHz (PCS)	Frequency Bands	700 MHz / 1900 MHz (PCS)
Channel Count	4	Channel Count	4	Channel Count	4
Total TX Power(W):	240	Total TX Power(W):	240	Total TX Power(W):	240
ERP (W):	5,462.56	ERP (W):	5,462.56	ERP (W):	5,462.56
Antenna A1 MPE%	3.10	Antenna B1 MPE%	3.10	Antenna C1 MPE%	3.10
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Powerwave 7770.00	Make / Model:	Powerwave 7770.00	Make / Model:	Powerwave 7770.00
Gain:	11.4 dBd	Gain:	11.4 dBd	Gain:	11.4 dBd
Height (AGL):	100 feet	Height (AGL):	100 feet	Height (AGL):	100 feet
Frequency Bands	850 MHz	Frequency Bands	850 MHz	Frequency Bands	850 MHz
Channel Count	4	Channel Count	4	Channel Count	4
Total TX Power(W):	120	Total TX Power(W):	120	Total TX Power(W):	120
ERP (W):	1,656.46	ERP (W):	1,656.46	ERP (W):	1,656.46
Antenna A2 MPE%	1.19	Antenna B2 MPE%	1.19	Antenna C2 MPE%	1.19
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Powerwave 7770.00	Make / Model:	Powerwave 7770.00	Make / Model:	Powerwave 7770.00
Gain:	11.4 / 13.4 dBd	Gain:	11.4 / 13.4 dBd	Gain:	11.4 / 13.4 dBd
Height (AGL):	100 feet	Height (AGL):	100 feet	Height (AGL):	100 feet
Frequency Bands	850 MHz / 1900 MHz (PCS)	Frequency Bands	850 MHz / 1900 MHz (PCS)	Frequency Bands	850 MHz / 1900 MHz (PCS)
Channel Count	4	Channel Count	4	Channel Count	4
Total TX Power(W):	240	Total TX Power(W):	240	Total TX Power(W):	240
ERP (W):	2,140.89	ERP (W):	2,140.89	ERP (W):	2,140.89
Antenna A3 MPE%	1.13	Antenna B3 MPE%	1.13	Antenna C3 MPE%	1.13

Site Composite MPE%	
Carrier	MPE%
AT&T – Max per sector	5.41 %
T-Mobile	0.05 %
Enertrac	0.00 %
Verizon Wireless	3.40 %
Town of Westport	0.01 %
Sprint	0.74 %
CL&P	0.06 %
FBI	0.20 %
Westport Fire	0.95 %
Westport Police	0.42 %
Westport Townwide	0.03 %
Site Total MPE %:	11.27 %

AT&T Sector 1 Total:	5.41 %
AT&T Sector 2 Total:	5.41 %
AT&T Sector 3 Total:	5.41 %
Site Total:	11.27 %



Highest Calculated Sector Values:

AT&T _ Per Sector	# 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 700 MHz LTE	2	940.05	100	7.65	700	467	1.64 %
AT&T 1900 MHz (PCS) LTE	2	1791.23	100	14.58	1900	1000	1.46 %
AT&T 850 MHz GSM	4	414.12	100	6.74	850	567	1.19 %
AT&T 850 MHz UMTS	2	414.12	100	3.37	850	567	0.59 %
AT&T 1900 MHz (PCS) UMTS	2	656.32	100	5.34	1900	1000	0.53 %
						Total:	5.41 %

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general public 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 public exposure to RF Emissions are shown here:

AT&T Sector	Power Density Value (%)
Sector 1:	5.41%
Sector 2:	5.41%
Sector 3 :	5.41%
AT&T Maximum Total (per sector):	5.41 %
Site Total:	11.27 %
Site Compliance Status:	COMPLIANT

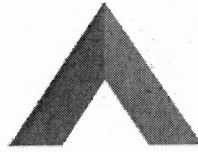
The anticipated composite MPE value for this site assuming all carriers present is **11.27%** of the allowable FCC established general public limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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.



Scott Heffernan
RF Engineering Director

EBI Consulting
21 B Street
Burlington, MA 01803



AMERICAN TOWER®
CORPORATION

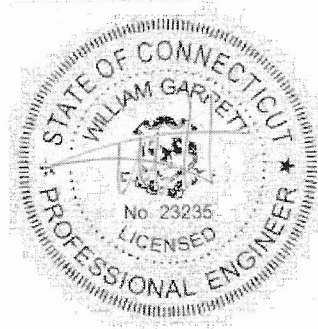
Structural Analysis Report

Structure : 140 ft Monopole
ATC Site Name : WSPT-Westport Rebuild CT, CT
ATC Site Number : 310968
Engineering Number : 64474921
Proposed Carrier : AT&T Mobility
Carrier Site Name : Westport
Carrier Site Number : CT2107/FA#10035323
Site Location : 180A Bayberry Lane
Westport, CT 06880-2844
41.171667,-73.328467
County : Fairfield
Date : November 23, 2015
Max Usage : 84%
Result : Pass

Reviewed by
William Garrett, PE
Chief Engineer

Prepared By:
Nupur Khadilkar

Nupur S. Khadilkar



Nov 30 2015 7:04 AM

COA: PEC.0001553



Eng. Number 64474921
November 23, 2015

Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
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Deflection, Twist, and Sway.....	3
Standard Conditions	4
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 140 ft monopole to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	PJF, Penn Summit Job #29204-0171, dated July 1, 2004
Foundation Drawing	PJF, Penn Summit Job #29204-0171, dated June 10, 2004
Geotechnical Report	GeoTechnologies Project #1-02-1190-EA, dated September 23, 2002

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/EIA-222.

Basic Wind Speed:	85 mph (Fastest Mile)
Basic Wind Speed w/ Ice:	74 mph (Fastest Mile)w/ 1/2" radial ice concurrent
Code:	ANSI/TIA/EIA-222-F / 2003 IBC , Sec. 1609.1.1, Exception (4) & Sec. 3108.4 w/ 2005 CT Supplement & 2009 CT Amendment

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					
140.0	144.8	1	Andrew DB589	Flush	(1) 1 1/4" Coax	American Messaging
138.0	141.0	1	2' HP Dish	Platform w/ Handrails	(7) 7/8" Coax (3) 1 5/8" Coax (1) EW90	Town Of Westport
	138.0	3	4' Omni			
		1	6' Dipole			
		2	8' Omni			
		1	6' FM Antenna			
		3	8' Omni			US Treasury
130.0	132.0	3	RFS RFS APXV9TM14-ALU-I20	Low Profile Platform	(6) 1 1/4" Coax (4) 1 1/4" Hybriflex	Sprint Nextel
		6	RFS APXVSP18-C-A20			
	128.0	3	Alcatel-Lucent 800MHz 2X50W RRH w/ Filter			
		3	Alcatel-Lucent 4x40W RRH			
		3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
118.0	118.0	1	Andrew DB586	Flush	(2) 1 1/4" Coax (1) 1/2" Coax	Connecticut Light & Power
110.0	110.0	2	Diamond X50A	Low Profile Platform	(12) 1 5/8" Coax (2) 1/2" Coax (1) 1 5/8" Hybriflex	Senet
		6	RFS FD9R6004/2C-3L			
		3	Alcatel-Lucent RRH2x40-AWS			
		3	Antel BXA-171063-8BF-EDIN-X			
		3	Antel BXA-171063-12CF-EDIN-X			
		1	RFS DB-T1-6Z-8AB-0Z			
		3	Antel BXA-70080/6CF			
		1	Antel BXA-70063/6CF			
		2	Powerwave P65-16-XL-2			
		100.0	100.0			6
6	Powerwave LGP21401					
6	Ericsson RRUS 11 (Band 12) (55 lb)					
6	Powerwave 7770.00					
87.0	87.0	6	RFS ATMAA1412D-1A20	Low Profile Platform	(12) 1 5/8" Coax (1) 1 1/4" Hybriflex	T-Mobile
		3	Ericsson AIR 21, 1.3 M, B2A B4P			
		3	Ericsson AIR 21, 1.3M, B4A B2P			

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
100.0	100.0	3	Powerwave P65-16-XLH-RR	-	(6) 1 5/8" Coax (1) 3/8" Coax	AT&T Mobility



Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
100.0	100.0	1	Raycap DC6-48-60-18-8F	Low Profile Platform	(2) 0.74" 8 AWG 7	AT&T Mobility
		3	Ericsson RRUS A2			
		3	Ericsson RRUS-12 1900MHz			
		3	CCI HPA-65R-BUU-H6			

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).

Install proposed coax inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	84%	Pass
Shaft	82%	Pass
Base Plate	40%	Pass

Foundations

Reaction Component	Analysis Reactions
Moment (Kips-Ft)	2,896.7
Axial (Kips)	45.6
Shear (Kips)	28.5

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

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
138.0	2' HP Dish	Town of Westport	2.357	1.803
100.0	Raycap DC6-48-60-18-8F	AT&T Mobility	1.254	1.383
	Ericsson RRUS A2			
	Ericsson RRUS-12 1900 MHz			
	CCI HPA-65R-BUU-H6			

*Deflection and Sway was evaluated considering a design wind speed of 50 mph (Fastest Mile) per ANSI/TIA/EIA-222-F.



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:

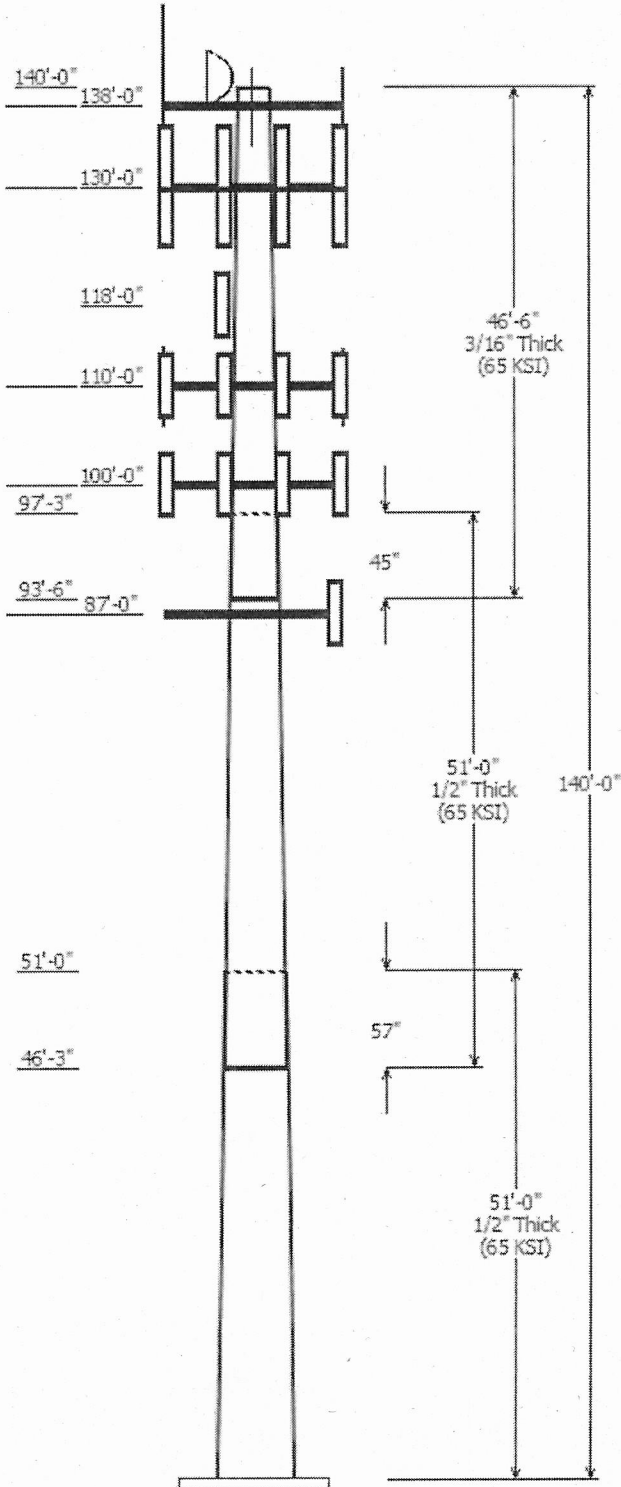
- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements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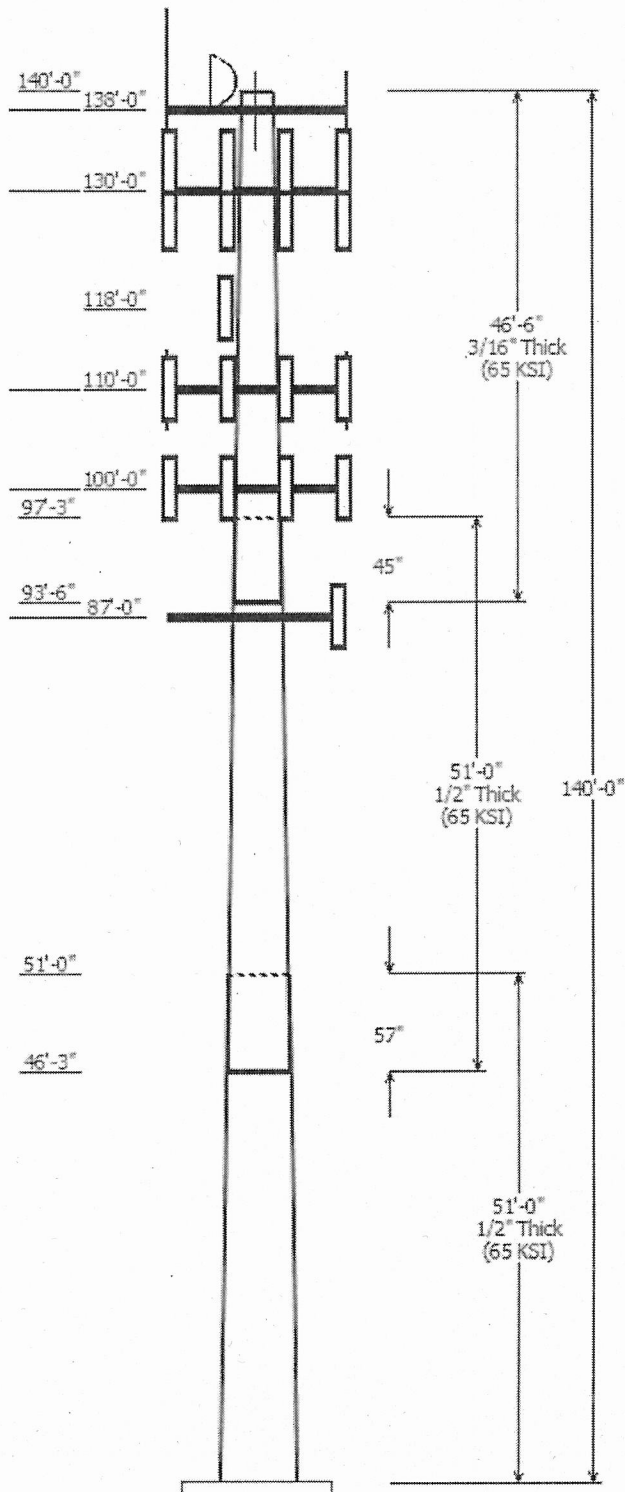


Job Information	
Pole :	310968
Code:	TIA/EIA-222-F
Description :	140 ft Summit Monopole
Client :	AT&T MOBILITY
Location :	WSPT-Westport Rebuild CT, CT
Shape :	18 Sides
Height :	140.00 (ft)
Base Elev (ft):	0.00
Taper:	0.20003(in/ft)

Sections Properties							
Shaft Section	Length (ft)	Diameter (in)			Overlap Length (in)	Steel Taper (in/ft)	Steel Grade (ksi)
		Accross Top	Flats Bottom	Thick Joint (in)			
1	51.000	36.92	47.13	0.500	0.000	0.200000	65
2	51.000	28.67	38.87	0.500	Slip Joint	0.200000	65
3	46.500	20.50	29.80	0.188	Slip Joint	0.200000	65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
140.000	144.800	1	Andrew DB589
138.000	138.000	3	4' Omni
138.000	141.000	1	2' HP Dish
138.000	138.000	1	Flat Platform w/ Handrails
138.000	138.000	2	8' Omni
138.000	138.000	3	8' Omni
138.000	138.000	1	6' FM Antenna
138.000	138.000	1	6' Dipole
130.000	132.000	3	RFS RFS APXV9TM14-ALU-I20
130.000	128.000	3	Alcatel-Lucent TD-RRH8x20-25
130.000	128.000	3	Alcatel-Lucent 4x40W RRH
130.000	128.000	3	Alcatel-Lucent 800 MHz 2X50W
130.000	132.000	6	RFS APXVSP18-C-A20
130.000	130.000	1	Flat Low Profile Platform
118.000	118.000	1	Andrew DB586
110.000	110.000	3	Alcatel-Lucent RRH2x40-AWS
110.000	110.000	1	RFS DB-T1-6Z-8AB-0Z
110.000	110.000	3	Antel BXA-70080/6CF
110.000	110.000	3	Antel BXA-171063-12CF-EDIN-X
110.000	110.000	3	Antel BXA-171063-8BF-EDIN-X
110.000	110.000	1	Antel BXA-70063/6CF
110.000	110.000	6	RFS FD9R6004/2C-3L
110.000	110.000	2	Powerwave P65-16-XL-2
110.000	110.000	1	Round Low Profile Platform
110.000	110.000	2	Diamond X50A
100.000	100.000	3	CCI HPA-65R-BUU-H6
100.000	100.000	3	Ericsson RRUS-12 1900 MHz
100.000	100.000	3	Ericsson RRUS A2
100.000	100.000	1	Raycap DC6-48-60-18-8F
100.000	100.000	6	Powerwave LGP21401
100.000	100.000	6	Powerwave 7770.00
100.000	100.000	6	Ericsson RRUS 11 (Band 12) (55
100.000	100.000	6	Powerwave LGP21901
100.000	100.000	1	Flat Low Profile Platform
87.000	87.000	6	RFS ATMAA1412D-1A20
87.000	87.000	3	Ericsson AIR 21, 1.3 M, B2A B4
87.000	87.000	3	Ericsson AIR 21, 1.3M, B4A B2P
87.000	87.000	1	Flat Low Profile Platform

Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		
5.000	87.000	1 1/4" Hybriflex	No

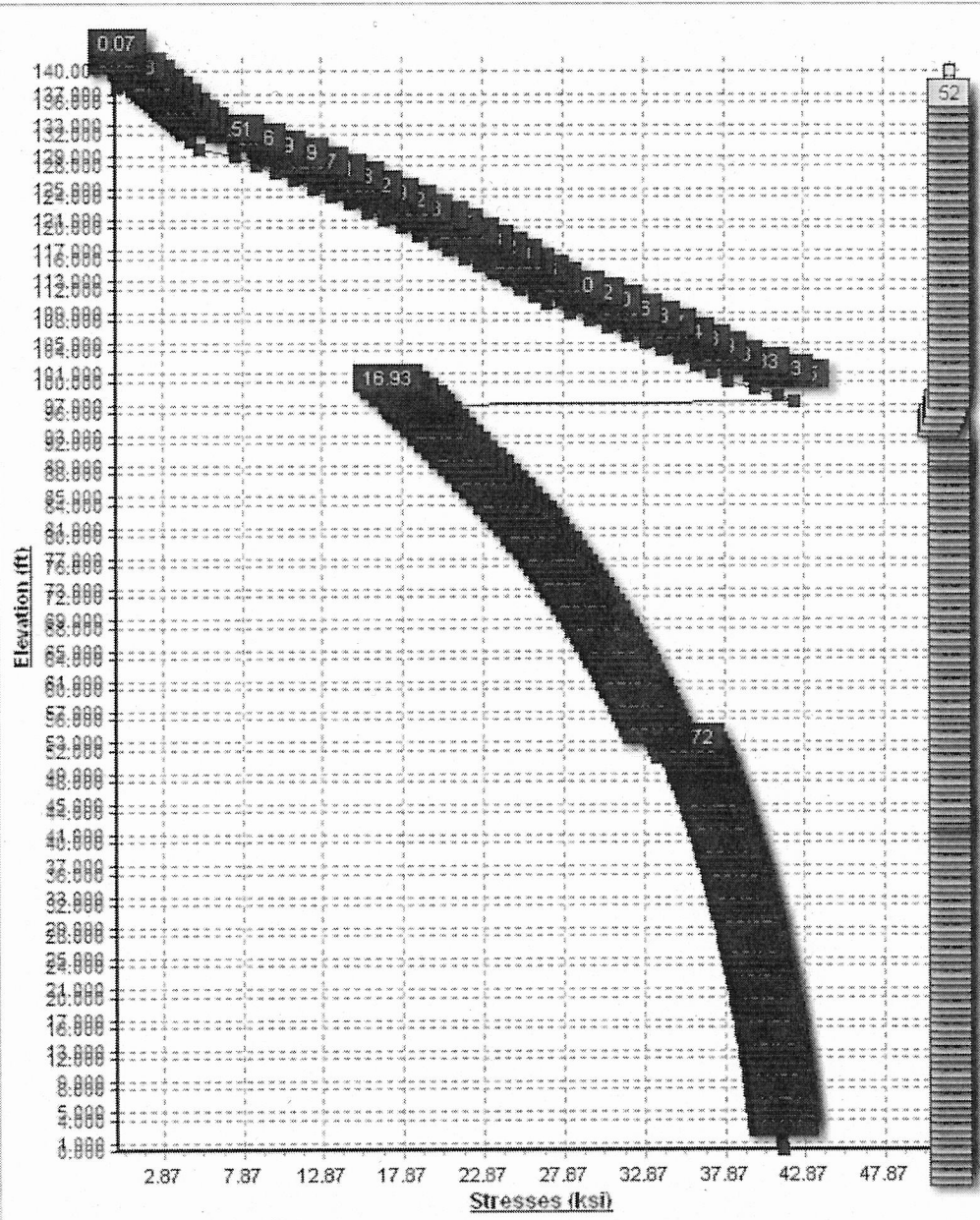


5.000	87.000	1 5/8" Coax	No
5.000	100.0	0.28" RG-6	No
5.000	100.0	0.74" 8 AWG 7	No
5.000	100.0	0.74" 8 AWG 7	No
5.000	100.0	1 5/8" Coax	No
5.000	100.0	3/8" Coax	No
5.000	110.0	1 5/8" Coax	No
5.000	110.0	1 5/8" Hybriflex	No
5.000	110.0	1/2" Coax	No
5.000	118.0	1 1/4" Coax	No
5.000	118.0	1/2" Coax	No
5.000	130.0	1 1/4" Coax	No
5.000	130.0	1 1/4" Hybriflex	No
5.000	138.0	1 5/8" Coax	No
5.000	138.0	7/8" Coax	No
5.000	138.0	7/8" Coax	No
5.000	138.0	EW90	No
5.000	140.0	1 1/4" Coax	No

Load Cases	
No Ice	85.00 mph Wind with No Ice
Ice	73.61 mph Wind with Ice
Twist/Sway	50.00 mph Wind with No Ice

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
No Ice	2896.74	28.50	38.79
Ice	2386.06	22.90	45.58
Twist/Sway	1003.03	9.86	38.80

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
Twist/Sway	138.00	28.283	1.803



Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:32 PM

Customer: AT&T MOBILITY

Analysis Parameters

Location:	Fairfield County, CT	Height (ft):	140
Code:	TIA/EIA-222-F	Base Diameter (in):	47.13
Shape:	18 Sides	Top Diameter (in):	20.50
Pole Type:	Taper	Taper (in/ft) :	0.200
Pole Manufacturer:	PennSummit Tub		

Load Cases

No Ice	85.00 mph Wind with No Ice
Ice	73.61 mph Wind with Ice
Twist/Sway	50.00 mph Wind with No Ice

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

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Customer: AT&T MOBILITY

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Slip		Weight (lb)	Bottom						Top							
				Joint Type	Joint Len (in)		Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)	
1-18	51.000	0.5000	65		0.00	11,437	47.13	0.00	74.00	20328.7	14.86	94.26	36.92	51.00	57.81	9692.3	11.26	73.86	0.200036	
2-18	51.000	0.5000	65	Slip	57.00	9,165	38.87	46.25	60.90	11333.7	11.95	77.76	28.67	97.25	44.71	4485.1	8.35	57.35	0.200036	
3-18	46.500	0.1875	65	Slip	45.00	2,351	29.80	93.50	17.62	1952.7	26.26	158.94	20.50	140.00	12.09	630.1	17.52	109.33	0.200036	
Shaft Weight						22,952														

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice			Ice			Distance From Face (ft)	Vert Ecc (ft)
			Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor		
140.00	Andrew DB589	1	11.50	1.380	1.00	22.90	2.320	1.00	0.000	4.800
138.00	2' HP Dish	1	90.00	3.960	1.00	128.00	4.300	1.00	0.000	3.000
138.00	4' Omni	3	10.00	1.000	1.00	21.00	1.360	1.00	0.000	0.000
138.00	6' Dipole	1	20.00	2.220	1.00	39.30	3.000	1.00	0.000	0.000
138.00	6' FM Antenna	1	30.00	13.450	1.00	112.70	14.770	1.00	0.000	0.000
138.00	8' Omni	3	25.00	2.400	1.00	62.00	3.230	1.00	0.000	0.000
138.00	8' Omni	2	25.00	2.400	1.00	62.00	3.230	1.00	0.000	0.000
138.00	Flat Platform w/ Handrails	1	1750.00	33.000	0.90	2,450.00	48.400	0.90	0.000	0.000
130.00	Alcatel-Lucent 4x40W RRH	3	91.00	3.830	0.67	122.40	4.230	0.67	0.000	-2.000
130.00	Alcatel-Lucent 800 MHz	3	64.00	2.400	0.67	86.10	2.720	0.67	0.000	-2.000
130.00	Alcatel-Lucent TD-RRH8x20-	3	70.00	4.720	0.67	82.70	4.430	0.67	0.000	-2.000
130.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	1,700.00	31.600	1.00	0.000	0.000
130.00	RFS APXVSP18-C-A20	6	57.00	8.260	0.82	106.50	8.260	0.82	0.000	2.000
130.00	RFS RFS APXV9TM14-ALU-I20	3	55.10	6.900	0.76	92.40	6.340	0.76	0.000	2.000
118.00	Andrew DB586	1	8.30	0.740	1.00	19.10	0.920	1.00	0.000	0.000
110.00	Alcatel-Lucent RRH2x40-AWS	3	44.00	2.510	0.67	61.40	2.870	0.67	0.000	0.000
110.00	Antel BXA-171063-12CF-EDIN-	3	15.00	4.790	0.88	42.40	5.460	0.88	0.000	0.000
110.00	Antel BXA-171063-8BF-EDIN-X	3	10.50	2.940	0.87	29.30	3.410	0.87	0.000	0.000
110.00	Antel BXA-70063/6CF	1	14.90	7.740	0.76	58.00	8.540	0.76	0.000	0.000
110.00	Antel BXA-70080/6CF	3	18.00	5.840	0.88	54.09	6.500	0.88	0.000	0.000
110.00	Diamond X50A	2	2.30	1.120	1.00	57.20	1.630	1.00	0.000	0.000
110.00	Powerwave P65-16-XL-2	2	33.00	8.400	0.75	77.53	9.230	0.75	0.000	0.000
110.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	5.600	0.67	144.50	6.080	0.67	0.000	0.000
110.00	RFS FD9R6004/2C-3L	6	2.60	0.370	0.50	5.40	0.500	0.50	0.000	0.000
110.00	Round Low Profile Platform	1	1500.00	21.700	1.00	1,700.00	27.200	1.00	0.000	0.000
100.00	CCI HPA-65R-BUU-H6	3	51.00	10.360	0.83	0.00	0.000	0.83	0.000	0.000
100.00	Ericsson RRUS 11 (Band 12)	6	55.00	2.940	0.67	74.30	3.290	0.67	0.000	0.000
100.00	Ericsson RRUS A2	3	15.00	1.870	0.50	25.40	2.150	0.50	0.000	0.000
100.00	Ericsson RRUS-12 1900 MHz	3	60.00	3.150	0.67	81.20	3.510	0.67	0.000	0.000
100.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	1,700.00	31.600	1.00	0.000	0.000
100.00	Powerwave 7770.00	6	35.00	5.880	0.77	67.63	6.530	0.77	0.000	0.000
100.00	Powerwave LGP21401	6	14.10	1.290	0.50	21.26	1.530	0.50	0.000	0.000
100.00	Powerwave LGP21901	6	5.50	0.230	0.50	7.70	0.340	0.50	0.000	0.000
100.00	Raycap DC6-48-60-18-8F	1	31.80	1.470	1.00	49.50	1.670	1.00	0.000	0.000
87.00	Ericsson AIR 21, 1.3 M, B2A	3	83.00	6.530	0.83	132.60	7.200	0.83	0.000	0.000
87.00	Ericsson AIR 21, 1.3M, B4A	3	81.50	6.580	0.83	132.60	7.200	0.83	0.000	0.000
87.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	1,700.00	31.600	1.00	0.000	0.000
87.00	RFS ATMAA1412D-1A20	6	13.00	1.170	0.50	20.60	1.390	0.50	0.000	0.000
Totals		106	11293.60			15,114.57			Number of Loadings :	38

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Qty	Description	No Ice		Ice		Exposed To Wind
				Weight (lb/ft)	CaAa (sf/ft)	Weight (lb/ft)	CaAa (sf/ft)	
5.00	140.00	1	1 1/4" Coax	0.63	0.00	0.00	0.00	N

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

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Customer: AT&T MOBILITY

5.00	138.00	3	1 5/8" Coax	2.46	0.00	0.00	0.00	N
5.00	138.00	5	7/8" Coax	1.98	0.00	0.00	0.00	N
5.00	138.00	2	7/8" Coax	0.66	0.00	0.00	0.00	N
5.00	138.00	1	EW90	0.32	0.00	0.00	0.00	N
5.00	130.00	6	1 1/4" Coax	0.63	0.00	0.00	0.00	N
5.00	130.00	4	1 1/4" Hybriflex	3.00	0.00	0.00	0.00	N
5.00	118.00	2	1 1/4" Coax	0.63	0.00	0.00	0.00	N
5.00	118.00	1	1/2" Coax	0.15	0.00	0.00	0.00	N
5.00	110.00	12	1 5/8" Coax	9.84	0.00	0.00	0.00	N
5.00	110.00	1	1 5/8" Hybriflex	1.30	0.00	0.00	0.00	N
5.00	110.00	2	1/2" Coax	0.15	0.00	0.00	0.00	N
5.00	100.00	1	0.28" RG-6	0.03	0.00	0.00	0.00	N
5.00	100.00	2	0.74" 8 AWG7	0.98	0.00	0.00	0.00	N
5.00	100.00	2	0.74" 8 AWG7	0.98	0.00	0.00	0.00	N
5.00	100.00	12	1 5/8" Coax	9.84	0.00	0.00	0.00	N
5.00	100.00	1	3/8" Coax	0.08	0.00	0.00	0.00	N
5.00	87.00	1	1 1/4" Hybriflex	1.00	0.00	0.00	0.00	N
5.00	87.00	12	1 5/8" Coax	9.84	0.00	0.00	0.00	N
			Total Weight	4,553.44 (lb)		0.00 (lb)		

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

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Customer: AT&T MOBILITY

Segment Properties (Max Len : 1. ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Fa (ksi)	Weight (lb)
0.00		0.5000	47.130	73.999	20,328.7	14.86	94.26	65	52	0	0.0
1.00		0.5000	46.930	73.682	20,068.2	14.79	93.86	65	52	0	251.3
2.00		0.5000	46.730	73.364	19,810.0	14.72	93.46	65	52	0	250.2
3.00		0.5000	46.530	73.047	19,553.9	14.65	93.06	65	52	0	249.1
4.00		0.5000	46.330	72.729	19,300.1	14.58	92.66	65	52	0	248.0
5.00		0.5000	46.130	72.412	19,048.5	14.50	92.26	65	52	0	246.9
6.00		0.5000	45.930	72.094	18,799.1	14.43	91.86	65	52	0	245.9
7.00		0.5000	45.730	71.777	18,551.8	14.36	91.46	65	52	0	244.8
8.00		0.5000	45.530	71.460	18,306.8	14.29	91.06	65	52	0	243.7
9.00		0.5000	45.330	71.142	18,063.9	14.22	90.66	65	52	0	242.6
10.00		0.5000	45.130	70.825	17,823.2	14.15	90.26	65	52	0	241.5
11.00		0.5000	44.930	70.507	17,584.6	14.08	89.86	65	52	0	240.5
12.00		0.5000	44.730	70.190	17,348.1	14.01	89.46	65	52	0	239.4
13.00		0.5000	44.530	69.872	17,113.8	13.94	89.06	65	52	0	238.3
14.00		0.5000	44.330	69.555	16,881.6	13.87	88.66	65	52	0	237.2
15.00		0.5000	44.129	69.237	16,651.5	13.80	88.26	65	52	0	236.1
16.00		0.5000	43.929	68.920	16,423.5	13.73	87.86	65	52	0	235.1
17.00		0.5000	43.729	68.603	16,197.6	13.66	87.46	65	52	0	234.0
18.00		0.5000	43.529	68.285	15,973.8	13.59	87.06	65	52	0	232.9
19.00		0.5000	43.329	67.968	15,752.1	13.52	86.66	65	52	0	231.8
20.00		0.5000	43.129	67.650	15,532.4	13.45	86.26	65	52	0	230.7
21.00		0.5000	42.929	67.333	15,314.8	13.38	85.86	65	52	0	229.7
22.00		0.5000	42.729	67.015	15,099.2	13.31	85.46	65	52	0	228.6
23.00		0.5000	42.529	66.698	14,885.6	13.23	85.06	65	52	0	227.5
24.00		0.5000	42.329	66.380	14,674.1	13.16	84.66	65	52	0	226.4
25.00		0.5000	42.129	66.063	14,464.6	13.09	84.26	65	52	0	225.3
26.00		0.5000	41.929	65.746	14,257.1	13.02	83.86	65	52	0	224.3
27.00		0.5000	41.729	65.428	14,051.5	12.95	83.46	65	52	0	223.2
28.00		0.5000	41.529	65.111	13,848.0	12.88	83.06	65	52	0	222.1
29.00		0.5000	41.329	64.793	13,646.4	12.81	82.66	65	52	0	221.0
30.00		0.5000	41.129	64.476	13,446.8	12.74	82.26	65	52	0	219.9
31.00		0.5000	40.929	64.158	13,249.2	12.67	81.86	65	52	0	218.9
32.00		0.5000	40.729	63.841	13,053.5	12.60	81.46	65	52	0	217.8
33.00		0.5000	40.529	63.523	12,859.8	12.53	81.06	65	52	0	216.7
34.00		0.5000	40.329	63.206	12,667.9	12.46	80.66	65	52	0	215.6
35.00		0.5000	40.129	62.889	12,478.0	12.39	80.26	65	52	0	214.5
36.00		0.5000	39.929	62.571	12,290.0	12.32	79.86	65	52	0	213.5
37.00		0.5000	39.729	62.254	12,103.9	12.25	79.46	65	52	0	212.4
38.00		0.5000	39.529	61.936	11,919.7	12.18	79.06	65	52	0	211.3
39.00		0.5000	39.329	61.619	11,737.3	12.11	78.66	65	52	0	210.2
40.00		0.5000	39.129	61.301	11,556.9	12.04	78.26	65	52	0	209.1
41.00		0.5000	38.929	60.984	11,378.3	11.97	77.86	65	52	0	208.1
42.00		0.5000	38.729	60.666	11,201.5	11.89	77.46	65	52	0	207.0
43.00		0.5000	38.528	60.349	11,026.6	11.82	77.06	65	52	0	205.9
44.00		0.5000	38.328	60.032	10,853.5	11.75	76.66	65	52	0	204.8
45.00		0.5000	38.128	59.714	10,682.2	11.68	76.26	65	52	0	203.7
46.00		0.5000	37.928	59.397	10,512.8	11.61	75.86	65	52	0	202.7
46.25	Bot - Section 2	0.5000	37.878	59.317	10,470.7	11.59	75.76	65	52	0	50.5
47.00		0.5000	37.728	59.079	10,345.1	11.54	75.46	65	52	0	306.2
48.00		0.5000	37.528	58.762	10,179.2	11.47	75.06	65	52	0	406.4
49.00		0.5000	37.328	58.444	10,015.2	11.40	74.66	65	52	0	404.2
50.00		0.5000	37.128	58.127	9,852.8	11.33	74.26	65	52	0	402.1
51.00	Top - Section 1	0.5000	37.928	59.396	10,512.6	11.61	75.86	65	52	0	399.9
52.00		0.5000	37.728	59.079	10,345.0	11.54	75.46	65	52	0	201.6
53.00		0.5000	37.528	58.761	10,179.1	11.47	75.06	65	52	0	200.5
54.00		0.5000	37.328	58.444	10,015.0	11.40	74.66	65	52	0	199.4
55.00		0.5000	37.128	58.127	9,852.7	11.33	74.26	65	52	0	198.3
56.00		0.5000	36.928	57.809	9,692.2	11.26	73.86	65	52	0	197.3

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

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Customer: AT&T MOBILITY

57.00		0.5000	36.728	57.492	9,533.4	11.19	73.46	65	52	0	196.2
58.00		0.5000	36.528	57.174	9,376.3	11.12	73.06	65	52	0	195.1
59.00		0.5000	36.328	56.857	9,221.0	11.05	72.66	65	52	0	194.0
60.00		0.5000	36.128	56.539	9,067.4	10.98	72.26	65	52	0	192.9
61.00		0.5000	35.928	56.222	8,915.5	10.91	71.86	65	52	0	191.9
62.00		0.5000	35.728	55.904	8,765.4	10.84	71.46	65	52	0	190.8
63.00		0.5000	35.528	55.587	8,616.9	10.77	71.06	65	52	0	189.7
64.00		0.5000	35.328	55.270	8,470.1	10.70	70.66	65	52	0	188.6
65.00		0.5000	35.128	54.952	8,325.0	10.62	70.26	65	52	0	187.5
66.00		0.5000	34.928	54.635	8,181.6	10.55	69.86	65	52	0	186.4
67.00		0.5000	34.728	54.317	8,039.8	10.48	69.46	65	52	0	185.4
68.00		0.5000	34.528	54.000	7,899.6	10.41	69.06	65	52	0	184.3
69.00		0.5000	34.328	53.682	7,761.1	10.34	68.66	65	52	0	183.2
70.00		0.5000	34.128	53.365	7,624.3	10.27	68.26	65	52	0	182.1
71.00		0.5000	33.927	53.047	7,489.0	10.20	67.85	65	52	0	181.0
72.00		0.5000	33.727	52.730	7,355.4	10.13	67.45	65	52	0	180.0
73.00		0.5000	33.527	52.413	7,223.3	10.06	67.05	65	52	0	178.9
74.00		0.5000	33.327	52.095	7,092.9	9.99	66.65	65	52	0	177.8
75.00		0.5000	33.127	51.778	6,964.0	9.92	66.25	65	52	0	176.7
76.00		0.5000	32.927	51.460	6,836.7	9.85	65.85	65	52	0	175.6
77.00		0.5000	32.727	51.143	6,711.0	9.78	65.45	65	52	0	174.6
78.00		0.5000	32.527	50.825	6,586.8	9.71	65.05	65	52	0	173.5
79.00		0.5000	32.327	50.508	6,464.1	9.64	64.65	65	52	0	172.4
80.00		0.5000	32.127	50.190	6,343.0	9.57	64.25	65	52	0	171.3
81.00		0.5000	31.927	49.873	6,223.4	9.50	63.85	65	52	0	170.2
82.00		0.5000	31.727	49.556	6,105.3	9.43	63.45	65	52	0	169.2
83.00		0.5000	31.527	49.238	5,988.7	9.35	63.05	65	52	0	168.1
84.00		0.5000	31.327	48.921	5,873.7	9.28	62.65	65	52	0	167.0
85.00		0.5000	31.127	48.603	5,760.0	9.21	62.25	65	52	0	165.9
86.00		0.5000	30.927	48.286	5,647.9	9.14	61.85	65	52	0	164.8
87.00		0.5000	30.727	47.968	5,537.3	9.07	61.45	65	52	0	163.8
88.00		0.5000	30.527	47.651	5,428.1	9.00	61.05	65	52	0	162.7
89.00		0.5000	30.327	47.333	5,320.3	8.93	60.65	65	52	0	161.6
90.00		0.5000	30.127	47.016	5,214.0	8.86	60.25	65	52	0	160.5
91.00		0.5000	29.927	46.699	5,109.1	8.79	59.85	65	52	0	159.4
92.00		0.5000	29.727	46.381	5,005.6	8.72	59.45	65	52	0	158.4
93.00		0.5000	29.527	46.064	4,903.5	8.65	59.05	65	52	0	157.3
93.50	Bot - Section 3	0.5000	29.427	45.905	4,853.0	8.61	58.85	65	52	0	157.2
94.00		0.5000	29.327	45.746	4,802.8	8.58	58.65	65	52	0	107.9
95.00		0.5000	29.127	45.429	4,703.5	8.51	58.25	65	52	0	214.7
96.00		0.5000	28.927	45.111	4,605.6	8.44	57.85	65	52	0	213.2
97.00		0.5000	28.727	44.794	4,509.1	8.37	57.45	65	52	0	211.7
97.25	Top - Section 2	0.1875	29.052	17.177	1,808.1	25.56	154.94	65	51	0	52.7
98.00		0.1875	28.902	17.088	1,780.0	25.42	154.14	65	51	0	43.7
99.00		0.1875	28.701	16.969	1,743.1	25.23	153.07	65	52	0	57.9
100.0		0.1875	28.501	16.850	1,706.7	25.04	152.01	65	52	0	57.5
101.0		0.1875	28.301	16.731	1,670.7	24.85	150.94	65	52	0	57.1
102.0		0.1875	28.101	16.612	1,635.3	24.66	149.87	65	52	0	56.7
103.0		0.1875	27.901	16.493	1,600.4	24.48	148.81	65	52	0	56.3
104.0		0.1875	27.701	16.374	1,566.0	24.29	147.74	65	52	0	55.9
105.0		0.1875	27.501	16.255	1,532.1	24.10	146.67	65	52	0	55.5
106.0		0.1875	27.301	16.135	1,498.7	23.91	145.61	65	52	0	55.1
107.0		0.1875	27.101	16.016	1,465.8	23.72	144.54	65	52	0	54.7
108.0		0.1875	26.901	15.897	1,433.3	23.53	143.47	65	52	0	54.3
109.0		0.1875	26.701	15.778	1,401.4	23.35	142.41	65	52	0	53.9
110.0		0.1875	26.501	15.659	1,369.9	23.16	141.34	65	52	0	53.5
111.0		0.1875	26.301	15.540	1,338.9	22.97	140.27	65	52	0	53.1
112.0		0.1875	26.101	15.421	1,308.3	22.78	139.21	65	52	0	52.7
113.0		0.1875	25.901	15.302	1,278.3	22.59	138.14	65	52	0	52.3
114.0		0.1875	25.701	15.183	1,248.7	22.41	137.07	65	52	0	51.9
115.0		0.1875	25.501	15.064	1,219.5	22.22	136.00	65	52	0	51.5
116.0		0.1875	25.301	14.945	1,190.9	22.03	134.94	65	52	0	51.1
117.0		0.1875	25.101	14.826	1,162.6	21.84	133.87	65	52	0	50.7
118.0		0.1875	24.901	14.707	1,134.8	21.65	132.80	65	52	0	50.2

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

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Customer: AT&T MOBILITY

119.0	0.1875	24.701	14.588	1,107.5	21.47	131.74	65	52	0	49.8
120.0	0.1875	24.501	14.469	1,080.6	21.28	130.67	65	52	0	49.4
121.0	0.1875	24.301	14.350	1,054.2	21.09	129.60	65	52	0	49.0
122.0	0.1875	24.101	14.231	1,028.1	20.90	128.54	65	52	0	48.6
123.0	0.1875	23.901	14.112	1,002.6	20.71	127.47	65	52	0	48.2
124.0	0.1875	23.701	13.993	977.4	20.52	126.40	65	52	0	47.8
125.0	0.1875	23.501	13.874	952.7	20.34	125.34	65	52	0	47.4
126.0	0.1875	23.300	13.755	928.4	20.15	124.27	65	52	0	47.0
127.0	0.1875	23.100	13.636	904.5	19.96	123.20	65	52	0	46.6
128.0	0.1875	22.900	13.517	881.0	19.77	122.14	65	52	0	46.2
129.0	0.1875	22.700	13.398	857.9	19.58	121.07	65	52	0	45.8
130.0	0.1875	22.500	13.278	835.2	19.40	120.00	65	52	0	45.4
131.0	0.1875	22.300	13.159	813.0	19.21	118.94	65	52	0	45.0
132.0	0.1875	22.100	13.040	791.1	19.02	117.87	65	52	0	44.6
133.0	0.1875	21.900	12.921	769.6	18.83	116.80	65	52	0	44.2
134.0	0.1875	21.700	12.802	748.6	18.64	115.73	65	52	0	43.8
135.0	0.1875	21.500	12.683	727.9	18.46	114.67	65	52	0	43.4
136.0	0.1875	21.300	12.564	707.6	18.27	113.60	65	52	0	43.0
137.0	0.1875	21.100	12.445	687.7	18.08	112.53	65	52	0	42.6
138.0	0.1875	20.900	12.326	668.1	17.89	111.47	65	52	0	42.1
139.0	0.1875	20.700	12.207	648.9	17.70	110.40	65	52	0	41.7
140.0	0.1875	20.500	12.088	630.1	17.52	109.33	65	52	0	41.3
										22,952.4

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:33 PM

Customer: AT&T MOBILITY

Load Case: No Ice

85.00 mph Wind with No Ice

30 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces			Sum of Forces			
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion Moment MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion Moment MY (lb-ft)	Moment MZ (lb)
0.00		39.8	0.0					0.0	0.0	39.8	0.0	0.0	0.0
1.00		79.5	251.3					0.0	0.0	79.5	251.3	0.0	0.0
2.00		79.1	250.2					0.0	0.0	79.1	250.2	0.0	0.0
3.00		78.8	249.1					0.0	0.0	78.8	249.1	0.0	0.0
4.00		78.4	248.0					0.0	0.0	78.4	248.0	0.0	0.0
5.00		78.1	246.9					0.0	0.0	78.1	246.9	0.0	0.0
6.00		77.8	245.9					0.0	44.5	77.8	290.4	0.0	0.0
7.00		77.4	244.8					0.0	44.5	77.4	289.3	0.0	0.0
8.00		77.1	243.7					0.0	44.5	77.1	288.2	0.0	0.0
9.00		76.8	242.6					0.0	44.5	76.8	287.1	0.0	0.0
10.00		76.4	241.5					0.0	44.5	76.4	286.0	0.0	0.0
11.00		76.1	240.5					0.0	44.5	76.1	285.0	0.0	0.0
12.00		75.7	239.4					0.0	44.5	75.7	283.9	0.0	0.0
13.00		75.4	238.3					0.0	44.5	75.4	282.8	0.0	0.0
14.00		75.1	237.2					0.0	44.5	75.1	281.7	0.0	0.0
15.00		74.7	236.1					0.0	44.5	74.7	280.6	0.0	0.0
16.00		74.4	235.1					0.0	44.5	74.4	279.6	0.0	0.0
17.00		74.0	234.0					0.0	44.5	74.0	278.5	0.0	0.0
18.00		73.7	232.9					0.0	44.5	73.7	277.4	0.0	0.0
19.00		73.4	231.8					0.0	44.5	73.4	276.3	0.0	0.0
20.00		73.0	230.7					0.0	44.5	73.0	275.2	0.0	0.0
21.00		72.7	229.7					0.0	44.5	72.7	274.2	0.0	0.0
22.00		72.3	228.6					0.0	44.5	72.3	273.1	0.0	0.0
23.00		72.0	227.5					0.0	44.5	72.0	272.0	0.0	0.0
24.00		71.7	226.4					0.0	44.5	71.7	270.9	0.0	0.0
25.00		71.3	225.3					0.0	44.5	71.3	269.8	0.0	0.0
26.00		71.0	224.3					0.0	44.5	71.0	268.8	0.0	0.0
27.00		70.7	223.2					0.0	44.5	70.7	267.7	0.0	0.0
28.00		70.3	222.1					0.0	44.5	70.3	266.6	0.0	0.0
29.00		70.0	221.0					0.0	44.5	70.0	265.5	0.0	0.0
30.00		69.6	219.9					0.0	44.5	69.6	264.4	0.0	0.0
31.00		69.3	218.9					0.0	44.5	69.3	263.4	0.0	0.0
32.00		69.0	217.8					0.0	44.5	69.0	262.3	0.0	0.0
33.00		68.8	216.7					0.0	44.5	68.8	261.2	0.0	0.0
34.00		68.9	215.6					0.0	44.5	68.9	260.1	0.0	0.0
35.00		69.1	214.5					0.0	44.5	69.1	259.0	0.0	0.0
36.00		69.3	213.5					0.0	44.5	69.3	258.0	0.0	0.0
37.00		69.5	212.4					0.0	44.5	69.5	256.9	0.0	0.0
38.00		69.7	211.3					0.0	44.5	69.7	255.8	0.0	0.0
39.00		69.8	210.2					0.0	44.5	69.8	254.7	0.0	0.0
40.00		70.0	209.1					0.0	44.5	70.0	253.6	0.0	0.0
41.00		70.1	208.1					0.0	44.5	70.1	252.6	0.0	0.0
42.00		70.2	207.0					0.0	44.5	70.2	251.5	0.0	0.0
43.00		70.4	205.9					0.0	44.5	70.4	250.4	0.0	0.0
44.00		70.5	204.8					0.0	44.5	70.5	249.3	0.0	0.0
45.00		70.5	203.7					0.0	44.5	70.5	248.2	0.0	0.0
46.00		44.1	202.7					0.0	44.5	44.1	247.2	0.0	0.0
46.25	Bot - Section 2	36.0	50.5					0.0	11.1	36.0	61.6	0.0	0.0

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:44 PM

Customer: AT&T MOBILITY

Load Case: No Ice

85.00 mph Wind with No Ice

30 Iterations

Gust Response Factor : 1.69
Dead Load Factor : 1.00
Wind Load Factor : 1.00

47.00		63.5	306.2				0.0	33.4	63.5	339.6	0.0	0.0	
48.00		72.6	406.4				0.0	44.5	72.6	450.9	0.0	0.0	
49.00		72.7	404.2				0.0	44.5	72.7	448.7	0.0	0.0	
50.00		72.7	402.1				0.0	44.5	72.7	446.6	0.0	0.0	
51.00	Top - Section 1	72.7	399.9				0.0	44.5	72.7	444.4	0.0	0.0	
52.00		72.7	201.6				0.0	44.5	72.7	246.1	0.0	0.0	
53.00		72.8	200.5				0.0	44.5	72.8	245.0	0.0	0.0	
54.00		72.8	199.4				0.0	44.5	72.8	243.9	0.0	0.0	
55.00		72.7	198.3				0.0	44.5	72.7	242.8	0.0	0.0	
56.00		72.7	197.3				0.0	44.5	72.7	241.8	0.0	0.0	
57.00		72.7	196.2				0.0	44.5	72.7	240.7	0.0	0.0	
58.00		72.7	195.1				0.0	44.5	72.7	239.6	0.0	0.0	
59.00		72.6	194.0				0.0	44.5	72.6	238.5	0.0	0.0	
60.00		72.6	192.9				0.0	44.5	72.6	237.4	0.0	0.0	
61.00		72.5	191.9				0.0	44.5	72.5	236.3	0.0	0.0	
62.00		72.4	190.8				0.0	44.5	72.4	235.3	0.0	0.0	
63.00		72.4	189.7				0.0	44.5	72.4	234.2	0.0	0.0	
64.00		72.3	188.6				0.0	44.5	72.3	233.1	0.0	0.0	
65.00		72.2	187.5				0.0	44.5	72.2	232.0	0.0	0.0	
66.00		72.1	186.4				0.0	44.5	72.1	230.9	0.0	0.0	
67.00		72.0	185.4				0.0	44.5	72.0	229.9	0.0	0.0	
68.00		71.9	184.3				0.0	44.5	71.9	228.8	0.0	0.0	
69.00		71.8	183.2				0.0	44.5	71.8	227.7	0.0	0.0	
70.00		71.6	182.1				0.0	44.5	71.6	226.6	0.0	0.0	
71.00		71.5	181.0				0.0	44.5	71.5	225.5	0.0	0.0	
72.00		71.4	180.0				0.0	44.5	71.4	224.5	0.0	0.0	
73.00		71.2	178.9				0.0	44.5	71.2	223.4	0.0	0.0	
74.00		71.1	177.8				0.0	44.5	71.1	222.3	0.0	0.0	
75.00		70.9	176.7				0.0	44.5	70.9	221.2	0.0	0.0	
76.00		70.8	175.6				0.0	44.5	70.8	220.1	0.0	0.0	
77.00		70.6	174.6				0.0	44.5	70.6	219.1	0.0	0.0	
78.00		70.4	173.5				0.0	44.5	70.4	218.0	0.0	0.0	
79.00		70.2	172.4				0.0	44.5	70.2	216.9	0.0	0.0	
80.00		70.1	171.3				0.0	44.5	70.1	215.8	0.0	0.0	
81.00		69.9	170.2				0.0	44.5	69.9	214.7	0.0	0.0	
82.00		69.7	169.2				0.0	44.5	69.7	213.7	0.0	0.0	
83.00		69.5	168.1				0.0	44.5	69.5	212.6	0.0	0.0	
84.00		69.3	167.0				0.0	44.5	69.3	211.5	0.0	0.0	
85.00		69.1	165.9				0.0	44.5	69.1	210.4	0.0	0.0	
86.00		68.8	164.8				0.0	44.5	68.8	209.3	0.0	0.0	
87.00	Appertunance(s)	68.6	163.8	2,567.0	0.0	0.0	2,071.5	0.0	44.5	2,635.6	2,279.8	0.0	0.0
88.00		68.4	162.7					0.0	33.7	68.4	196.3	0.0	0.0
89.00		68.2	161.6					0.0	33.7	68.2	195.3	0.0	0.0
90.00		67.9	160.5					0.0	33.7	67.9	194.2	0.0	0.0
91.00		67.7	159.4					0.0	33.7	67.7	193.1	0.0	0.0
92.00		67.5	158.4					0.0	33.7	67.5	192.0	0.0	0.0
93.00		50.5	157.3					0.0	33.7	50.5	190.9	0.0	0.0
93.50	Bot - Section 3	33.8	78.2					0.0	16.8	33.8	95.1	0.0	0.0
94.00		50.8	107.9					0.0	16.8	50.8	124.7	0.0	0.0
95.00		67.6	214.7					0.0	33.7	67.6	248.3	0.0	0.0
96.00		67.3	213.2					0.0	33.7	67.3	246.9	0.0	0.0
97.00		42.0	211.7					0.0	33.7	42.0	245.4	0.0	0.0
97.25	Top - Section 2	33.5	52.7					0.0	8.4	33.5	61.1	0.0	0.0
98.00		58.4	43.7					0.0	25.2	58.4	69.0	0.0	0.0
99.00		66.5	57.9					0.0	33.7	66.5	91.6	0.0	0.0
100.00	Appertunance(s)	66.2	57.5	4,550.2	0.0	0.0	2,567.4	0.0	33.7	4,616.5	2,658.6	0.0	0.0
101.00		66.0	57.1					0.0	21.7	66.0	78.9	0.0	0.0

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:44 PM

Customer: AT&T MOBILITY

Load Case: No Ice

85.00 mph Wind with No Ice

30 Iterations

Gust Response Factor : 1.69
Dead Load Factor : 1.00
Wind Load Factor : 1.00

102.00		65.7	56.7					0.0	21.7	65.7	78.5	0.0	0.0	
103.00		65.4	56.3					0.0	21.7	65.4	78.1	0.0	0.0	
104.00		65.1	55.9					0.0	21.7	65.1	77.7	0.0	0.0	
105.00		64.8	55.5					0.0	21.7	64.8	77.3	0.0	0.0	
106.00		64.5	55.1					0.0	21.7	64.5	76.9	0.0	0.0	
107.00		64.2	54.7					0.0	21.7	64.2	76.5	0.0	0.0	
108.00		63.9	54.3					0.0	21.7	63.9	76.0	0.0	0.0	
109.00		63.6	53.9					0.0	21.7	63.6	75.6	0.0	0.0	
110.00	Appertunance(s)	63.3	53.5	3,883.0	0.0	0.0	1,907.6	0.0	21.7	3,946.3	1,982.8	0.0	0.0	
111.00		63.0	53.1					0.0	10.5	63.0	63.5	0.0	0.0	
112.00		62.7	52.7					0.0	10.5	62.7	63.1	0.0	0.0	
113.00		62.3	52.3					0.0	10.5	62.3	62.7	0.0	0.0	
114.00		62.0	51.9					0.0	10.5	62.0	62.3	0.0	0.0	
115.00		61.7	51.5					0.0	10.5	61.7	61.9	0.0	0.0	
116.00		61.3	51.1					0.0	10.5	61.3	61.5	0.0	0.0	
117.00		61.0	50.7					0.0	10.5	61.0	61.1	0.0	0.0	
118.00	Appertunance(s)	60.7	50.2	33.3	0.0	0.0	8.3	0.0	10.5	94.0	69.0	0.0	0.0	
119.00		60.3	49.8					0.0	9.7	60.3	59.5	0.0	0.0	
120.00		60.0	49.4					0.0	9.7	60.0	59.1	0.0	0.0	
121.00		59.6	49.0					0.0	9.7	59.6	58.7	0.0	0.0	
122.00		59.3	48.6					0.0	9.7	59.3	58.3	0.0	0.0	
123.00		58.9	48.2					0.0	9.7	58.9	57.9	0.0	0.0	
124.00		58.6	47.8					0.0	9.7	58.6	57.5	0.0	0.0	
125.00		58.2	47.4					0.0	9.7	58.2	57.1	0.0	0.0	
126.00		57.9	47.0					0.0	9.7	57.9	56.7	0.0	0.0	
127.00		57.5	46.6					0.0	9.7	57.5	56.3	0.0	0.0	
128.00		57.1	46.2					0.0	9.7	57.1	55.9	0.0	0.0	
129.00		56.7	45.8					0.0	9.7	56.7	55.5	0.0	0.0	
130.00	Appertunance(s)	56.4	45.4	4,838.9	0.0	3,210.1	2,682.3	0.0	9.7	4,895.2	2,737.4	0.0	0.0	
131.00		56.0	45.0					0.0	6.0	56.0	51.0	0.0	0.0	
132.00		55.6	44.6					0.0	6.0	55.6	50.6	0.0	0.0	
133.00		55.2	44.2					0.0	6.0	55.2	50.2	0.0	0.0	
134.00		54.8	43.8					0.0	6.0	54.8	49.8	0.0	0.0	
135.00		54.4	43.4					0.0	6.0	54.4	49.4	0.0	0.0	
136.00		54.1	43.0					0.0	6.0	54.1	49.0	0.0	0.0	
137.00		53.7	42.6					0.0	6.0	53.7	48.6	0.0	0.0	
138.00	Appertunance(s)	53.3	42.1	3,027.4	0.0	562.3	2,045.0	0.0	6.0	3,080.7	2,093.2	0.0	0.0	
139.00		52.9	41.7					0.0	0.6	52.9	42.4	0.0	0.0	
140.00	Appertunance(s)	26.3	41.3	65.8	0.0	315.9	11.5	0.0	0.6	92.1	53.5	0.0	0.0	
										Totals:	28,523.6	38,799.4	0.00	0.00

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:44 PM

Customer: AT&T MOBILITY

Load Case: No Ice

85.00 mph Wind with No Ice

30 Iterations

Gust Response Factor : 1.69
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Calculated Shaft Forces and Deflections

Seg Elev (ft)	Lateral FX (-) (kips)	Axial FY (-) (kips)	Lateral FZ (kips)	Moment MX (ft-kips)	Torsion MY (ft-kips)	Moment MZ (ft-kips)	X Deflect (in)	Z Deflect (in)	Total Deflect (in)	Rotation (deg)
0.00	-28.497	-38.789	0.000	0.000	0.000	-2,896.738	0.000	0.000	0.000	0.000
1.00	-28.445	-38.517	0.000	0.000	0.000	-2,868.242	-0.005	0.000	0.005	-0.040
2.00	-28.392	-38.247	0.000	0.000	0.000	-2,839.797	-0.018	0.000	0.018	-0.081
3.00	-28.340	-37.978	0.000	0.000	0.000	-2,811.405	-0.039	0.000	0.039	-0.121
4.00	-28.288	-37.710	0.000	0.000	0.000	-2,783.066	-0.069	0.000	0.069	-0.162
5.00	-28.236	-37.443	0.000	0.000	0.000	-2,754.778	-0.108	0.000	0.108	-0.203
6.00	-28.183	-37.173	0.000	0.000	0.000	-2,726.543	-0.155	0.000	0.155	-0.244
7.00	-28.131	-36.904	0.000	0.000	0.000	-2,698.360	-0.210	0.000	0.210	-0.285
8.00	-28.079	-36.636	0.000	0.000	0.000	-2,670.229	-0.275	0.000	0.275	-0.326
9.00	-28.026	-36.369	0.000	0.000	0.000	-2,642.151	-0.348	0.000	0.348	-0.367
10.00	-27.974	-36.103	0.000	0.000	0.000	-2,614.125	-0.429	0.000	0.429	-0.409
11.00	-27.922	-35.838	0.000	0.000	0.000	-2,586.152	-0.520	0.000	0.520	-0.450
12.00	-27.869	-35.574	0.000	0.000	0.000	-2,558.231	-0.619	0.000	0.619	-0.492
13.00	-27.817	-35.311	0.000	0.000	0.000	-2,530.362	-0.726	0.000	0.726	-0.534
14.00	-27.764	-35.049	0.000	0.000	0.000	-2,502.545	-0.843	0.000	0.843	-0.575
15.00	-27.712	-34.788	0.000	0.000	0.000	-2,474.781	-0.968	0.000	0.968	-0.617
16.00	-27.660	-34.528	0.000	0.000	0.000	-2,447.070	-1.102	0.000	1.102	-0.659
17.00	-27.607	-34.269	0.000	0.000	0.000	-2,419.411	-1.245	0.000	1.245	-0.702
18.00	-27.555	-34.011	0.000	0.000	0.000	-2,391.804	-1.397	0.000	1.397	-0.744
19.00	-27.502	-33.754	0.000	0.000	0.000	-2,364.250	-1.557	0.000	1.557	-0.786
20.00	-27.450	-33.498	0.000	0.000	0.000	-2,336.748	-1.727	0.000	1.727	-0.829
21.00	-27.397	-33.243	0.000	0.000	0.000	-2,309.299	-1.905	0.000	1.905	-0.871
22.00	-27.345	-32.989	0.000	0.000	0.000	-2,281.902	-2.092	0.000	2.092	-0.914
23.00	-27.292	-32.736	0.000	0.000	0.000	-2,254.558	-2.288	0.000	2.288	-0.957
24.00	-27.240	-32.484	0.000	0.000	0.000	-2,227.266	-2.493	0.000	2.493	-0.999
25.00	-27.187	-32.233	0.000	0.000	0.000	-2,200.027	-2.708	0.000	2.708	-1.042
26.00	-27.135	-31.983	0.000	0.000	0.000	-2,172.840	-2.931	0.000	2.931	-1.085
27.00	-27.082	-31.734	0.000	0.000	0.000	-2,145.706	-3.163	0.000	3.163	-1.128
28.00	-27.029	-31.486	0.000	0.000	0.000	-2,118.624	-3.404	0.000	3.404	-1.172
29.00	-26.977	-31.239	0.000	0.000	0.000	-2,091.595	-3.654	0.000	3.654	-1.215
30.00	-26.924	-30.993	0.000	0.000	0.000	-2,064.619	-3.914	0.000	3.914	-1.258
31.00	-26.872	-30.748	0.000	0.000	0.000	-2,037.695	-4.182	0.000	4.182	-1.302
32.00	-26.819	-30.504	0.000	0.000	0.000	-2,010.824	-4.459	0.000	4.459	-1.345
33.00	-26.766	-30.261	0.000	0.000	0.000	-1,984.005	-4.746	0.000	4.746	-1.389
34.00	-26.713	-30.019	0.000	0.000	0.000	-1,957.239	-5.042	0.000	5.042	-1.432
35.00	-26.659	-29.778	0.000	0.000	0.000	-1,930.527	-5.347	0.000	5.347	-1.476
36.00	-26.605	-29.538	0.000	0.000	0.000	-1,903.868	-5.660	0.000	5.660	-1.519
37.00	-26.550	-29.299	0.000	0.000	0.000	-1,877.264	-5.984	0.000	5.984	-1.563
38.00	-26.494	-29.061	0.000	0.000	0.000	-1,850.714	-6.316	0.000	6.316	-1.607
39.00	-26.438	-28.824	0.000	0.000	0.000	-1,824.220	-6.657	0.000	6.657	-1.651
40.00	-26.382	-28.588	0.000	0.000	0.000	-1,797.782	-7.008	0.000	7.008	-1.695
41.00	-26.325	-28.353	0.000	0.000	0.000	-1,771.400	-7.368	0.000	7.368	-1.739
42.00	-26.268	-28.119	0.000	0.000	0.000	-1,745.076	-7.737	0.000	7.737	-1.783
43.00	-26.210	-27.886	0.000	0.000	0.000	-1,718.809	-8.115	0.000	8.115	-1.827
44.00	-26.151	-27.654	0.000	0.000	0.000	-1,692.600	-8.503	0.000	8.503	-1.871
45.00	-26.093	-27.423	0.000	0.000	0.000	-1,666.448	-8.900	0.000	8.900	-1.915
46.00	-26.035	-27.193	0.000	0.000	0.000	-1,640.356	-9.305	0.000	9.305	-1.959
46.25	-26.024	-27.166	0.000	0.000	0.000	-1,633.843	-9.408	0.000	9.408	-1.970
47.00	-25.966	-27.140	0.000	0.000	0.000	-1,614.325	-9.721	0.000	9.721	-2.003
48.00	-25.897	-27.115	0.000	0.000	0.000	-1,588.360	-10.145	0.000	10.145	-2.047
49.00	-25.826	-27.090	0.000	0.000	0.000	-1,562.464	-10.579	0.000	10.579	-2.091

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:44 PM

Customer: AT&T MOBILITY

Load Case: No Ice	85.00 mph Wind with No Ice	30 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

50.00	-25.756	-23.834	0.000	0.000	0.000	-1,536.638	-11.021	0.000	11.021	-2.135
51.00	-25.684	-23.373	0.000	0.000	0.000	-1,510.882	-11.473	0.000	11.473	-2.179
52.00	-25.619	-23.111	0.000	0.000	0.000	-1,485.199	-11.935	0.000	11.935	-2.223
53.00	-25.553	-22.851	0.000	0.000	0.000	-1,459.580	-12.405	0.000	12.405	-2.263
54.00	-25.486	-22.593	0.000	0.000	0.000	-1,434.027	-12.883	0.000	12.883	-2.304
55.00	-25.420	-22.335	0.000	0.000	0.000	-1,408.541	-13.370	0.000	13.370	-2.344
56.00	-25.353	-22.079	0.000	0.000	0.000	-1,383.122	-13.866	0.000	13.866	-2.385
57.00	-25.285	-21.823	0.000	0.000	0.000	-1,357.770	-14.370	0.000	14.370	-2.425
58.00	-25.217	-21.570	0.000	0.000	0.000	-1,332.485	-14.882	0.000	14.882	-2.465
59.00	-25.149	-21.317	0.000	0.000	0.000	-1,307.268	-15.403	0.000	15.403	-2.505
60.00	-25.081	-21.065	0.000	0.000	0.000	-1,282.119	-15.932	0.000	15.932	-2.545
61.00	-25.013	-20.815	0.000	0.000	0.000	-1,257.038	-16.469	0.000	16.469	-2.585
62.00	-24.944	-20.566	0.000	0.000	0.000	-1,232.026	-17.015	0.000	17.015	-2.625
63.00	-24.875	-20.318	0.000	0.000	0.000	-1,207.082	-17.569	0.000	17.569	-2.664
64.00	-24.805	-20.072	0.000	0.000	0.000	-1,182.208	-18.131	0.000	18.131	-2.704
65.00	-24.736	-19.827	0.000	0.000	0.000	-1,157.403	-18.701	0.000	18.701	-2.743
66.00	-24.666	-19.583	0.000	0.000	0.000	-1,132.668	-19.280	0.000	19.280	-2.782
67.00	-24.596	-19.340	0.000	0.000	0.000	-1,108.002	-19.867	0.000	19.867	-2.821
68.00	-24.526	-19.098	0.000	0.000	0.000	-1,083.406	-20.462	0.000	20.462	-2.860
69.00	-24.455	-18.858	0.000	0.000	0.000	-1,058.881	-21.065	0.000	21.065	-2.898
70.00	-24.385	-18.619	0.000	0.000	0.000	-1,034.426	-21.676	0.000	21.676	-2.937
71.00	-24.314	-18.381	0.000	0.000	0.000	-1,010.041	-22.295	0.000	22.295	-2.975
72.00	-24.243	-18.145	0.000	0.000	0.000	-985.728	-22.923	0.000	22.923	-3.013
73.00	-24.172	-17.910	0.000	0.000	0.000	-961.485	-23.558	0.000	23.558	-3.050
74.00	-24.100	-17.676	0.000	0.000	0.000	-937.314	-24.200	0.000	24.200	-3.088
75.00	-24.029	-17.444	0.000	0.000	0.000	-913.214	-24.851	0.000	24.851	-3.125
76.00	-23.957	-17.212	0.000	0.000	0.000	-889.185	-25.510	0.000	25.510	-3.162
77.00	-23.885	-16.982	0.000	0.000	0.000	-865.228	-26.176	0.000	26.176	-3.198
78.00	-23.813	-16.754	0.000	0.000	0.000	-841.343	-26.849	0.000	26.849	-3.234
79.00	-23.741	-16.526	0.000	0.000	0.000	-817.530	-27.530	0.000	27.530	-3.270
80.00	-23.669	-16.300	0.000	0.000	0.000	-793.790	-28.219	0.000	28.219	-3.306
81.00	-23.596	-16.076	0.000	0.000	0.000	-770.121	-28.915	0.000	28.915	-3.341
82.00	-23.524	-15.852	0.000	0.000	0.000	-746.525	-29.618	0.000	29.618	-3.375
83.00	-23.451	-15.630	0.000	0.000	0.000	-723.001	-30.329	0.000	30.329	-3.410
84.00	-23.378	-15.410	0.000	0.000	0.000	-699.551	-31.047	0.000	31.047	-3.443
85.00	-23.306	-15.190	0.000	0.000	0.000	-676.172	-31.771	0.000	31.771	-3.477
86.00	-23.233	-14.972	0.000	0.000	0.000	-652.867	-32.503	0.000	32.503	-3.510
87.00	-20.469	-12.848	0.000	0.000	0.000	-629.635	-33.241	0.000	33.241	-3.542
88.00	-20.395	-12.645	0.000	0.000	0.000	-609.166	-33.986	0.000	33.986	-3.574
89.00	-20.322	-12.443	0.000	0.000	0.000	-588.771	-34.738	0.000	34.738	-3.605
90.00	-20.248	-12.243	0.000	0.000	0.000	-568.449	-35.496	0.000	35.496	-3.636
91.00	-20.175	-12.044	0.000	0.000	0.000	-548.201	-36.261	0.000	36.261	-3.666
92.00	-20.101	-11.846	0.000	0.000	0.000	-528.026	-37.031	0.000	37.031	-3.696
93.00	-20.043	-11.651	0.000	0.000	0.000	-507.925	-37.808	0.000	37.808	-3.726
93.50	-20.006	-11.553	0.000	0.000	0.000	-497.903	-38.199	0.000	38.199	-3.740
94.00	-19.952	-11.425	0.000	0.000	0.000	-487.900	-38.592	0.000	38.592	-3.755
95.00	-19.873	-11.171	0.000	0.000	0.000	-467.948	-39.381	0.000	39.381	-3.783
96.00	-19.795	-10.920	0.000	0.000	0.000	-448.075	-40.176	0.000	40.176	-3.811
97.00	-19.740	-10.672	0.000	0.000	0.000	-428.280	-40.977	0.000	40.977	-3.838
97.25	-19.705	-10.609	0.000	0.000	0.000	-423.345	-41.178	0.000	41.178	-3.845
98.00	-19.650	-10.529	0.000	0.000	0.000	-408.567	-41.783	0.000	41.783	-3.865
99.00	-19.589	-10.420	0.000	0.000	0.000	-388.917	-42.600	0.000	42.600	-3.928
100.0	-14.809	-8.072	0.000	0.000	0.000	-369.328	-43.429	0.000	43.429	-3.990
101.0	-14.746	-7.982	0.000	0.000	0.000	-354.520	-44.271	0.000	44.271	-4.050
102.0	-14.683	-7.894	0.000	0.000	0.000	-339.774	-45.126	0.000	45.126	-4.110
103.0	-14.619	-7.806	0.000	0.000	0.000	-325.092	-45.992	0.000	45.992	-4.167
104.0	-14.556	-7.719	0.000	0.000	0.000	-310.473	-46.871	0.000	46.871	-4.224

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:44 PM

Customer: AT&T MOBILITY

Load Case: No Ice

85.00 mph Wind with No Ice

30 Iterations

Gust Response Factor : 1.69
Dead Load Factor : 1.00
Wind Load Factor : 1.00

105.0	-14.493	-7.633	0.000	0.000	0.000	-295.917	-47.762	0.000	47.762	-4.279
106.0	-14.430	-7.548	0.000	0.000	0.000	-281.424	-48.663	0.000	48.663	-4.333
107.0	-14.367	-7.464	0.000	0.000	0.000	-266.994	-49.576	0.000	49.576	-4.385
108.0	-14.304	-7.381	0.000	0.000	0.000	-252.627	-50.500	0.000	50.500	-4.435
109.0	-14.241	-7.298	0.000	0.000	0.000	-238.324	-51.433	0.000	51.433	-4.484
110.0	-10.155	-5.624	0.000	0.000	0.000	-224.083	-52.377	0.000	52.377	-4.531
111.0	-10.092	-5.558	0.000	0.000	0.000	-213.928	-53.330	0.000	53.330	-4.576
112.0	-10.028	-5.492	0.000	0.000	0.000	-203.837	-54.293	0.000	54.293	-4.621
113.0	-9.965	-5.427	0.000	0.000	0.000	-193.809	-55.265	0.000	55.265	-4.664
114.0	-9.902	-5.363	0.000	0.000	0.000	-183.844	-56.245	0.000	56.245	-4.706
115.0	-9.839	-5.300	0.000	0.000	0.000	-173.942	-57.235	0.000	57.235	-4.747
116.0	-9.777	-5.237	0.000	0.000	0.000	-164.102	-58.232	0.000	58.232	-4.786
117.0	-9.714	-5.175	0.000	0.000	0.000	-154.326	-59.238	0.000	59.238	-4.824
118.0	-9.618	-5.108	0.000	0.000	0.000	-144.612	-60.252	0.000	60.252	-4.861
119.0	-9.556	-5.048	0.000	0.000	0.000	-134.994	-61.273	0.000	61.273	-4.896
120.0	-9.494	-4.989	0.000	0.000	0.000	-125.439	-62.301	0.000	62.301	-4.929
121.0	-9.432	-4.930	0.000	0.000	0.000	-115.945	-63.336	0.000	63.336	-4.961
122.0	-9.370	-4.873	0.000	0.000	0.000	-106.513	-64.377	0.000	64.377	-4.991
123.0	-9.309	-4.816	0.000	0.000	0.000	-97.143	-65.425	0.000	65.425	-5.019
124.0	-9.248	-4.759	0.000	0.000	0.000	-87.834	-66.478	0.000	66.478	-5.045
125.0	-9.186	-4.704	0.000	0.000	0.000	-78.587	-67.536	0.000	67.536	-5.070
126.0	-9.126	-4.649	0.000	0.000	0.000	-69.401	-68.600	0.000	68.600	-5.092
127.0	-9.065	-4.595	0.000	0.000	0.000	-60.275	-69.667	0.000	69.667	-5.112
128.0	-9.004	-4.542	0.000	0.000	0.000	-51.210	-70.739	0.000	70.739	-5.129
129.0	-8.944	-4.490	0.000	0.000	0.000	-42.206	-71.814	0.000	71.814	-5.144
130.0	-3.823	-2.203	0.000	0.000	0.000	-30.052	-72.892	0.000	72.892	-5.157
131.0	-3.763	-2.156	0.000	0.000	0.000	-26.229	-73.972	0.000	73.972	-5.166
132.0	-3.703	-2.110	0.000	0.000	0.000	-22.466	-75.053	0.000	75.053	-5.175
133.0	-3.644	-2.065	0.000	0.000	0.000	-18.763	-76.137	0.000	76.137	-5.182
134.0	-3.585	-2.020	0.000	0.000	0.000	-15.119	-77.221	0.000	77.221	-5.188
135.0	-3.527	-1.975	0.000	0.000	0.000	-11.534	-78.307	0.000	78.307	-5.194
136.0	-3.469	-1.931	0.000	0.000	0.000	-8.007	-79.394	0.000	79.394	-5.197
137.0	-3.411	-1.888	0.000	0.000	0.000	-4.539	-80.482	0.000	80.482	-5.200
138.0	-0.153	-0.082	0.000	0.000	0.000	-0.566	-81.570	0.000	81.570	-5.201
139.0	-0.097	-0.045	0.000	0.000	0.000	-0.413	-82.658	0.000	82.658	-5.201
140.0	-0.092	0.000	0.000	0.000	0.000	-0.316	-83.745	0.000	83.745	-5.201

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:44 PM

Customer: AT&T MOBILITY

Load Case: No Ice

85.00 mph Wind with No Ice

30 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Combined (ksi)	Allowable Stress (Fb) (ksi)	Allowable Stress (Fa) (ksi)	Stress Ratio
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)					
0.00	0.52	0.78	0.00	0.00	0.00	40.92	41.46	52.0	0.0	0.798	
1.00	0.52	0.78	0.00	0.00	0.00	40.87	41.41	52.0	0.0	0.797	
2.00	0.52	0.78	0.00	0.00	0.00	40.81	41.36	52.0	0.0	0.796	
3.00	0.52	0.78	0.00	0.00	0.00	40.76	41.30	52.0	0.0	0.795	
4.00	0.52	0.78	0.00	0.00	0.00	40.70	41.24	52.0	0.0	0.793	
5.00	0.52	0.79	0.00	0.00	0.00	40.65	41.18	52.0	0.0	0.792	
6.00	0.52	0.79	0.00	0.00	0.00	40.59	41.12	52.0	0.0	0.791	
7.00	0.51	0.79	0.00	0.00	0.00	40.52	41.06	52.0	0.0	0.790	
8.00	0.51	0.79	0.00	0.00	0.00	40.46	40.99	52.0	0.0	0.789	
9.00	0.51	0.79	0.00	0.00	0.00	40.40	40.93	52.0	0.0	0.787	
10.00	0.51	0.80	0.00	0.00	0.00	40.33	40.86	52.0	0.0	0.786	
11.00	0.50	0.80	0.00	0.00	0.00	40.26	40.79	52.0	0.0	0.785	
12.00	0.50	0.80	0.00	0.00	0.00	40.19	40.71	52.0	0.0	0.783	
13.00	0.50	0.80	0.00	0.00	0.00	40.11	40.64	52.0	0.0	0.782	
14.00	0.50	0.80	0.00	0.00	0.00	40.04	40.56	52.0	0.0	0.780	
15.00	0.50	0.81	0.00	0.00	0.00	39.96	40.48	52.0	0.0	0.779	
16.00	0.49	0.81	0.00	0.00	0.00	39.88	40.40	52.0	0.0	0.777	
17.00	0.49	0.81	0.00	0.00	0.00	39.80	40.31	52.0	0.0	0.776	
18.00	0.49	0.81	0.00	0.00	0.00	39.71	40.23	52.0	0.0	0.774	
19.00	0.49	0.82	0.00	0.00	0.00	39.62	40.14	52.0	0.0	0.772	
20.00	0.49	0.82	0.00	0.00	0.00	39.53	40.04	52.0	0.0	0.770	
21.00	0.48	0.82	0.00	0.00	0.00	39.44	39.95	52.0	0.0	0.769	
22.00	0.48	0.82	0.00	0.00	0.00	39.34	39.85	52.0	0.0	0.767	
23.00	0.48	0.82	0.00	0.00	0.00	39.24	39.75	52.0	0.0	0.765	
24.00	0.48	0.83	0.00	0.00	0.00	39.14	39.65	52.0	0.0	0.763	
25.00	0.48	0.83	0.00	0.00	0.00	39.04	39.54	52.0	0.0	0.761	
26.00	0.47	0.83	0.00	0.00	0.00	38.93	39.43	52.0	0.0	0.759	
27.00	0.47	0.83	0.00	0.00	0.00	38.82	39.32	52.0	0.0	0.756	
28.00	0.47	0.84	0.00	0.00	0.00	38.71	39.21	52.0	0.0	0.754	
29.00	0.47	0.84	0.00	0.00	0.00	38.59	39.09	52.0	0.0	0.752	
30.00	0.47	0.84	0.00	0.00	0.00	38.47	38.97	52.0	0.0	0.750	
31.00	0.46	0.84	0.00	0.00	0.00	38.35	38.84	52.0	0.0	0.747	
32.00	0.46	0.85	0.00	0.00	0.00	38.23	38.71	52.0	0.0	0.745	
33.00	0.46	0.85	0.00	0.00	0.00	38.10	38.58	52.0	0.0	0.742	
34.00	0.46	0.85	0.00	0.00	0.00	37.96	38.45	52.0	0.0	0.740	
35.00	0.46	0.85	0.00	0.00	0.00	37.83	38.31	52.0	0.0	0.737	
36.00	0.45	0.86	0.00	0.00	0.00	37.69	38.17	52.0	0.0	0.734	
37.00	0.45	0.86	0.00	0.00	0.00	37.54	38.02	52.0	0.0	0.731	
38.00	0.45	0.86	0.00	0.00	0.00	37.39	37.87	52.0	0.0	0.729	
39.00	0.45	0.86	0.00	0.00	0.00	37.24	37.72	52.0	0.0	0.726	
40.00	0.44	0.87	0.00	0.00	0.00	37.08	37.56	52.0	0.0	0.723	
41.00	0.44	0.87	0.00	0.00	0.00	36.92	37.40	52.0	0.0	0.719	
42.00	0.44	0.87	0.00	0.00	0.00	36.76	37.23	52.0	0.0	0.716	
43.00	0.44	0.88	0.00	0.00	0.00	36.59	37.06	52.0	0.0	0.713	
44.00	0.44	0.88	0.00	0.00	0.00	36.42	36.88	52.0	0.0	0.710	
45.00	0.43	0.88	0.00	0.00	0.00	36.24	36.70	52.0	0.0	0.706	
46.00	0.43	0.88	0.00	0.00	0.00	36.06	36.52	52.0	0.0	0.703	
46.25	0.43	0.88	0.00	0.00	0.00	36.01	36.47	52.0	0.0	0.702	
47.00	0.43	0.89	0.00	0.00	0.00	35.87	36.33	52.0	0.0	0.699	
48.00	0.42	0.89	0.00	0.00	0.00	35.68	36.13	52.0	0.0	0.695	
49.00	0.42	0.89	0.00	0.00	0.00	35.48	35.93	52.0	0.0	0.691	

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:44 PM

Customer: AT&T MOBILITY

Load Case: No Ice			85.00 mph Wind with No Ice						30 Iterations		
Gust Response Factor : 1.69											
Dead Load Factor : 1.00											
Wind Load Factor : 1.00											

50.00	0.41	0.89	0.00	0.00	0.00	35.28	35.72	52.0	0.0	0.687
51.00	0.39	0.87	0.00	0.00	0.00	33.21	33.64	52.0	0.0	0.647
52.00	0.39	0.87	0.00	0.00	0.00	33.00	33.43	52.0	0.0	0.643
53.00	0.39	0.88	0.00	0.00	0.00	32.79	33.21	52.0	0.0	0.639
54.00	0.39	0.88	0.00	0.00	0.00	32.56	32.99	52.0	0.0	0.635
55.00	0.38	0.88	0.00	0.00	0.00	32.34	32.76	52.0	0.0	0.630
56.00	0.38	0.88	0.00	0.00	0.00	32.11	32.52	52.0	0.0	0.626
57.00	0.38	0.89	0.00	0.00	0.00	31.87	32.29	52.0	0.0	0.621
58.00	0.38	0.89	0.00	0.00	0.00	31.63	32.04	52.0	0.0	0.616
59.00	0.37	0.89	0.00	0.00	0.00	31.38	31.79	52.0	0.0	0.612
60.00	0.37	0.89	0.00	0.00	0.00	31.12	31.53	52.0	0.0	0.607
61.00	0.37	0.90	0.00	0.00	0.00	30.86	31.27	52.0	0.0	0.602
62.00	0.37	0.90	0.00	0.00	0.00	30.60	31.00	52.0	0.0	0.596
63.00	0.37	0.90	0.00	0.00	0.00	30.32	30.73	52.0	0.0	0.591
64.00	0.36	0.90	0.00	0.00	0.00	30.04	30.44	52.0	0.0	0.586
65.00	0.36	0.91	0.00	0.00	0.00	29.75	30.16	52.0	0.0	0.580
66.00	0.36	0.91	0.00	0.00	0.00	29.46	29.86	52.0	0.0	0.574
67.00	0.36	0.91	0.00	0.00	0.00	29.16	29.56	52.0	0.0	0.569
68.00	0.35	0.92	0.00	0.00	0.00	28.85	29.25	52.0	0.0	0.563
69.00	0.35	0.92	0.00	0.00	0.00	28.53	28.93	52.0	0.0	0.557
70.00	0.35	0.92	0.00	0.00	0.00	28.21	28.60	52.0	0.0	0.550
71.00	0.35	0.92	0.00	0.00	0.00	27.88	28.27	52.0	0.0	0.544
72.00	0.34	0.93	0.00	0.00	0.00	27.54	27.93	52.0	0.0	0.537
73.00	0.34	0.93	0.00	0.00	0.00	27.19	27.58	52.0	0.0	0.531
74.00	0.34	0.93	0.00	0.00	0.00	26.83	27.22	52.0	0.0	0.524
75.00	0.34	0.94	0.00	0.00	0.00	26.47	26.85	52.0	0.0	0.517
76.00	0.33	0.94	0.00	0.00	0.00	26.09	26.48	52.0	0.0	0.509
77.00	0.33	0.94	0.00	0.00	0.00	25.71	26.09	52.0	0.0	0.502
78.00	0.33	0.94	0.00	0.00	0.00	25.31	25.70	52.0	0.0	0.494
79.00	0.33	0.95	0.00	0.00	0.00	24.91	25.29	52.0	0.0	0.487
80.00	0.32	0.95	0.00	0.00	0.00	24.50	24.87	52.0	0.0	0.479
81.00	0.32	0.95	0.00	0.00	0.00	24.07	24.45	52.0	0.0	0.470
82.00	0.32	0.96	0.00	0.00	0.00	23.64	24.01	52.0	0.0	0.462
83.00	0.32	0.96	0.00	0.00	0.00	23.19	23.57	52.0	0.0	0.453
84.00	0.31	0.96	0.00	0.00	0.00	22.73	23.11	52.0	0.0	0.445
85.00	0.31	0.97	0.00	0.00	0.00	22.26	22.64	52.0	0.0	0.435
86.00	0.31	0.97	0.00	0.00	0.00	21.78	22.15	52.0	0.0	0.426
87.00	0.27	0.86	0.00	0.00	0.00	21.29	21.61	52.0	0.0	0.416
88.00	0.27	0.86	0.00	0.00	0.00	20.87	21.19	52.0	0.0	0.408
89.00	0.26	0.87	0.00	0.00	0.00	20.45	20.76	52.0	0.0	0.399
90.00	0.26	0.87	0.00	0.00	0.00	20.01	20.33	52.0	0.0	0.391
91.00	0.26	0.87	0.00	0.00	0.00	19.56	19.88	52.0	0.0	0.382
92.00	0.26	0.87	0.00	0.00	0.00	19.11	19.42	52.0	0.0	0.374
93.00	0.25	0.88	0.00	0.00	0.00	18.63	18.95	52.0	0.0	0.365
93.50	0.25	0.88	0.00	0.00	0.00	18.39	18.71	52.0	0.0	0.360
94.00	0.25	0.88	0.00	0.00	0.00	18.15	18.46	52.0	0.0	0.355
95.00	0.25	0.88	0.00	0.00	0.00	17.65	17.97	52.0	0.0	0.346
96.00	0.24	0.88	0.00	0.00	0.00	17.15	17.46	52.0	0.0	0.336
97.00	0.24	0.89	0.00	0.00	0.00	16.62	16.93	52.0	0.0	0.326
97.25	0.62	2.31	0.00	0.00	0.00	41.44	42.25	51.3	0.0	0.823
98.00	0.62	2.32	0.00	0.00	0.00	40.42	41.23	51.5	0.0	0.801
99.00	0.61	2.33	0.00	0.00	0.00	39.02	39.83	51.6	0.0	0.772
100.00	0.48	1.77	0.00	0.00	0.00	37.58	38.18	51.8	0.0	0.737
101.00	0.48	1.78	0.00	0.00	0.00	36.59	37.19	51.9	0.0	0.716
102.00	0.48	1.78	0.00	0.00	0.00	35.57	36.18	52.0	0.0	0.696
103.00	0.47	1.79	0.00	0.00	0.00	34.53	35.14	52.0	0.0	0.676
104.00	0.47	1.79	0.00	0.00	0.00	33.46	34.07	52.0	0.0	0.655

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:45 PM

Customer: AT&T MOBILITY

Load Case: No Ice	85.00 mph Wind with No Ice								30 Iterations	
Gust Response Factor : 1.69										
Dead Load Factor : 1.00										
Wind Load Factor : 1.00										

105.00	0.47	1.80	0.00	0.00	0.00	32.36	32.98	52.0	0.0	0.634
106.00	0.47	1.80	0.00	0.00	0.00	31.23	31.86	52.0	0.0	0.613
107.00	0.47	1.81	0.00	0.00	0.00	30.08	30.70	52.0	0.0	0.591
108.00	0.46	1.81	0.00	0.00	0.00	28.89	29.52	52.0	0.0	0.568
109.00	0.46	1.82	0.00	0.00	0.00	27.67	28.30	52.0	0.0	0.545
110.00	0.36	1.31	0.00	0.00	0.00	26.41	26.87	52.0	0.0	0.517
111.00	0.36	1.31	0.00	0.00	0.00	25.60	26.06	52.0	0.0	0.501
112.00	0.36	1.31	0.00	0.00	0.00	24.78	25.23	52.0	0.0	0.485
113.00	0.35	1.31	0.00	0.00	0.00	23.93	24.39	52.0	0.0	0.469
114.00	0.35	1.31	0.00	0.00	0.00	23.05	23.52	52.0	0.0	0.452
115.00	0.35	1.32	0.00	0.00	0.00	22.16	22.63	52.0	0.0	0.435
116.00	0.35	1.32	0.00	0.00	0.00	21.24	21.71	52.0	0.0	0.418
117.00	0.35	1.32	0.00	0.00	0.00	20.30	20.77	52.0	0.0	0.400
118.00	0.35	1.32	0.00	0.00	0.00	19.33	19.81	52.0	0.0	0.381
119.00	0.35	1.32	0.00	0.00	0.00	18.34	18.83	52.0	0.0	0.362
120.00	0.34	1.32	0.00	0.00	0.00	17.33	17.82	52.0	0.0	0.343
121.00	0.34	1.32	0.00	0.00	0.00	16.28	16.79	52.0	0.0	0.323
122.00	0.34	1.33	0.00	0.00	0.00	15.21	15.72	52.0	0.0	0.302
123.00	0.34	1.33	0.00	0.00	0.00	14.11	14.63	52.0	0.0	0.282
124.00	0.34	1.33	0.00	0.00	0.00	12.98	13.51	52.0	0.0	0.260
125.00	0.34	1.33	0.00	0.00	0.00	11.81	12.37	52.0	0.0	0.238
126.00	0.34	1.34	0.00	0.00	0.00	10.61	11.19	52.0	0.0	0.215
127.00	0.34	1.34	0.00	0.00	0.00	9.38	9.99	52.0	0.0	0.192
128.00	0.34	1.34	0.00	0.00	0.00	8.11	8.76	52.0	0.0	0.169
129.00	0.34	1.35	0.00	0.00	0.00	6.80	7.51	52.0	0.0	0.144
130.00	0.17	0.58	0.00	0.00	0.00	4.93	5.20	52.0	0.0	0.100
131.00	0.16	0.58	0.00	0.00	0.00	4.38	4.66	52.0	0.0	0.090
132.00	0.16	0.57	0.00	0.00	0.00	3.82	4.11	52.0	0.0	0.079
133.00	0.16	0.57	0.00	0.00	0.00	3.25	3.55	52.0	0.0	0.068
134.00	0.16	0.56	0.00	0.00	0.00	2.67	2.99	52.0	0.0	0.058
135.00	0.16	0.56	0.00	0.00	0.00	2.08	2.43	52.0	0.0	0.047
136.00	0.15	0.56	0.00	0.00	0.00	1.47	1.89	52.0	0.0	0.036
137.00	0.15	0.55	0.00	0.00	0.00	0.85	1.38	52.0	0.0	0.027
138.00	0.01	0.03	0.00	0.00	0.00	0.11	0.12	52.0	0.0	0.002
139.00	0.00	0.02	0.00	0.00	0.00	0.08	0.09	52.0	0.0	0.002
140.00	0.00	0.02	0.00	0.00	0.00	0.06	0.07	52.0	0.0	0.001

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:45 PM

Customer: AT&T MOBILITY

Load Case: Ice	73.61 mph Wind with Ice	29 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces			Sum of Forces			
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		30.5	0.0					0.0	0.0	30.5	0.0	0.0	0.0
1.00		60.9	280.5					0.0	0.0	60.9	280.5	0.0	0.0
2.00		60.6	279.3					0.0	0.0	60.6	279.3	0.0	0.0
3.00		60.4	278.1					0.0	0.0	60.4	278.1	0.0	0.0
4.00		60.1	276.9					0.0	0.0	60.1	276.9	0.0	0.0
5.00		59.8	275.7					0.0	0.0	59.8	275.7	0.0	0.0
6.00		59.6	274.5					0.0	44.5	59.6	319.0	0.0	0.0
7.00		59.3	273.3					0.0	44.5	59.3	317.8	0.0	0.0
8.00		59.1	272.1					0.0	44.5	59.1	316.6	0.0	0.0
9.00		58.8	270.9					0.0	44.5	58.8	315.4	0.0	0.0
10.00		58.6	269.7					0.0	44.5	58.6	314.2	0.0	0.0
11.00		58.3	268.5					0.0	44.5	58.3	313.0	0.0	0.0
12.00		58.1	267.3					0.0	44.5	58.1	311.8	0.0	0.0
13.00		57.8	266.1					0.0	44.5	57.8	310.6	0.0	0.0
14.00		57.6	264.9					0.0	44.5	57.6	309.4	0.0	0.0
15.00		57.3	263.7					0.0	44.5	57.3	308.2	0.0	0.0
16.00		57.1	262.5					0.0	44.5	57.1	307.0	0.0	0.0
17.00		56.8	261.3					0.0	44.5	56.8	305.8	0.0	0.0
18.00		56.5	260.1					0.0	44.5	56.5	304.6	0.0	0.0
19.00		56.3	258.9					0.0	44.5	56.3	303.4	0.0	0.0
20.00		56.0	257.7					0.0	44.5	56.0	302.2	0.0	0.0
21.00		55.8	256.5					0.0	44.5	55.8	301.0	0.0	0.0
22.00		55.5	255.3					0.0	44.5	55.5	299.8	0.0	0.0
23.00		55.3	254.1					0.0	44.5	55.3	298.6	0.0	0.0
24.00		55.0	252.8					0.0	44.5	55.0	297.3	0.0	0.0
25.00		54.8	251.6					0.0	44.5	54.8	296.1	0.0	0.0
26.00		54.5	250.4					0.0	44.5	54.5	294.9	0.0	0.0
27.00		54.3	249.2					0.0	44.5	54.3	293.7	0.0	0.0
28.00		54.0	248.0					0.0	44.5	54.0	292.5	0.0	0.0
29.00		53.7	246.8					0.0	44.5	53.7	291.3	0.0	0.0
30.00		53.5	245.6					0.0	44.5	53.5	290.1	0.0	0.0
31.00		53.2	244.4					0.0	44.5	53.2	288.9	0.0	0.0
32.00		53.0	243.2					0.0	44.5	53.0	287.7	0.0	0.0
33.00		52.8	242.0					0.0	44.5	52.8	286.5	0.0	0.0
34.00		52.9	240.8					0.0	44.5	52.9	285.3	0.0	0.0
35.00		53.1	239.6					0.0	44.5	53.1	284.1	0.0	0.0
36.00		53.3	238.4					0.0	44.5	53.3	282.9	0.0	0.0
37.00		53.4	237.2					0.0	44.5	53.4	281.7	0.0	0.0
38.00		53.6	236.0					0.0	44.5	53.6	280.5	0.0	0.0
39.00		53.7	234.8					0.0	44.5	53.7	279.3	0.0	0.0
40.00		53.8	233.6					0.0	44.5	53.8	278.1	0.0	0.0
41.00		53.9	232.4					0.0	44.5	53.9	276.9	0.0	0.0
42.00		54.0	231.2					0.0	44.5	54.0	275.7	0.0	0.0
43.00		54.1	230.0					0.0	44.5	54.1	274.5	0.0	0.0
44.00		54.2	228.8					0.0	44.5	54.2	273.3	0.0	0.0
45.00		54.3	227.6					0.0	44.5	54.3	272.1	0.0	0.0
46.00		34.0	226.4					0.0	44.5	34.0	270.9	0.0	0.0
46.25	Bot - Section 2	27.7	56.4					0.0	11.1	27.7	67.5	0.0	0.0

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:56 PM

Customer: AT&T MOBILITY

Load Case: Ice			73.61 mph Wind with Ice				29 Iterations						
Gust Response Factor : 1.69													
Dead Load Factor : 1.00													
Wind Load Factor : 1.00													
47.00		48.8	324.4			0.0	33.4	48.8	357.7	0.0	0.0		
48.00		55.9	430.5			0.0	44.5	55.9	475.0	0.0	0.0		
49.00		55.9	428.2			0.0	44.5	55.9	472.7	0.0	0.0		
50.00		55.9	425.9			0.0	44.5	55.9	470.4	0.0	0.0		
51.00	Top - Section 1	56.0	423.6			0.0	44.5	56.0	468.1	0.0	0.0		
52.00		56.0	225.2			0.0	44.5	56.0	269.7	0.0	0.0		
53.00		56.0	224.0			0.0	44.5	56.0	268.5	0.0	0.0		
54.00		56.0	222.8			0.0	44.5	56.0	267.3	0.0	0.0		
55.00		56.0	221.6			0.0	44.5	56.0	266.1	0.0	0.0		
56.00		56.0	220.4			0.0	44.5	56.0	264.8	0.0	0.0		
57.00		56.0	219.1			0.0	44.5	56.0	263.6	0.0	0.0		
58.00		56.0	217.9			0.0	44.5	56.0	262.4	0.0	0.0		
59.00		56.0	216.7			0.0	44.5	56.0	261.2	0.0	0.0		
60.00		55.9	215.5			0.0	44.5	55.9	260.0	0.0	0.0		
61.00		55.9	214.3			0.0	44.5	55.9	258.8	0.0	0.0		
62.00		55.8	213.1			0.0	44.5	55.8	257.6	0.0	0.0		
63.00		55.8	211.9			0.0	44.5	55.8	256.4	0.0	0.0		
64.00		55.7	210.7			0.0	44.5	55.7	255.2	0.0	0.0		
65.00		55.7	209.5			0.0	44.5	55.7	254.0	0.0	0.0		
66.00		55.6	208.3			0.0	44.5	55.6	252.8	0.0	0.0		
67.00		55.5	207.1			0.0	44.5	55.5	251.6	0.0	0.0		
68.00		55.5	205.9			0.0	44.5	55.5	250.4	0.0	0.0		
69.00		55.4	204.7			0.0	44.5	55.4	249.2	0.0	0.0		
70.00		55.3	203.5			0.0	44.5	55.3	248.0	0.0	0.0		
71.00		55.2	202.3			0.0	44.5	55.2	246.8	0.0	0.0		
72.00		55.1	201.1			0.0	44.5	55.1	245.6	0.0	0.0		
73.00		55.0	199.9			0.0	44.5	55.0	244.4	0.0	0.0		
74.00		54.9	198.7			0.0	44.5	54.9	243.2	0.0	0.0		
75.00		54.8	197.5			0.0	44.5	54.8	242.0	0.0	0.0		
76.00		54.7	196.3			0.0	44.5	54.7	240.8	0.0	0.0		
77.00		54.6	195.1			0.0	44.5	54.6	239.6	0.0	0.0		
78.00		54.4	193.9			0.0	44.5	54.4	238.4	0.0	0.0		
79.00		54.3	192.7			0.0	44.5	54.3	237.2	0.0	0.0		
80.00		54.2	191.5			0.0	44.5	54.2	236.0	0.0	0.0		
81.00		54.0	190.3			0.0	44.5	54.0	234.8	0.0	0.0		
82.00		53.9	189.1			0.0	44.5	53.9	233.6	0.0	0.0		
83.00		53.8	187.9			0.0	44.5	53.8	232.4	0.0	0.0		
84.00		53.6	186.6			0.0	44.5	53.6	231.1	0.0	0.0		
85.00		53.5	185.4			0.0	44.5	53.5	229.9	0.0	0.0		
86.00		53.3	184.2			0.0	44.5	53.3	228.7	0.0	0.0		
87.00	Appertunance(s)	53.1	183.0	2,214.9	0.0	0.0	2,619.2	0.0	44.5	2,268.1	2,846.7	0.0	0.0
88.00		53.0	181.8			0.0	33.7	53.0	215.5	0.0	0.0		
89.00		52.8	180.6			0.0	33.7	52.8	214.3	0.0	0.0		
90.00		52.6	179.4			0.0	33.7	52.6	213.1	0.0	0.0		
91.00		52.5	178.2			0.0	33.7	52.5	211.9	0.0	0.0		
92.00		52.3	177.0			0.0	33.7	52.3	210.7	0.0	0.0		
93.00		39.1	175.8			0.0	33.7	39.1	209.5	0.0	0.0		
93.50	Bot - Section 3	26.2	87.5			0.0	16.8	26.2	104.3	0.0	0.0		
94.00		39.4	117.2			0.0	16.8	39.4	134.0	0.0	0.0		
95.00		52.4	233.2			0.0	33.7	52.4	266.9	0.0	0.0		
96.00		52.2	231.6			0.0	33.7	52.2	265.3	0.0	0.0		
97.00		32.6	230.0			0.0	33.7	32.6	263.6	0.0	0.0		
97.25	Top - Section 2	26.0	57.3			0.0	8.4	26.0	65.7	0.0	0.0		
98.00		45.3	57.3			0.0	25.2	45.3	82.6	0.0	0.0		
99.00		51.6	76.0			0.0	33.7	51.6	109.6	0.0	0.0		
100.00	Appertunance(s)	51.4	75.4	2,978.3	0.0	0.0	3,094.6	0.0	33.7	3,029.7	3,203.7	0.0	0.0
101.00		51.2	74.9			0.0	21.7	51.2	96.7	0.0	0.0		

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:56 PM

Customer: AT&T MOBILITY

Load Case: Ice		73.61 mph Wind with Ice						29 Iterations	
Gust Response Factor : 1.69									
Dead Load Factor : 1.00									
Wind Load Factor : 1.00									

102.00		51.0	74.4				0.0	21.7	51.0	96.1	0.0	0.0	
103.00		50.8	73.9				0.0	21.7	50.8	95.6	0.0	0.0	
104.00		50.6	73.3				0.0	21.7	50.6	95.1	0.0	0.0	
105.00		50.4	72.8				0.0	21.7	50.4	94.5	0.0	0.0	
106.00		50.2	72.3				0.0	21.7	50.2	94.0	0.0	0.0	
107.00		49.9	71.7				0.0	21.7	49.9	93.5	0.0	0.0	
108.00		49.7	71.2				0.0	21.7	49.7	93.0	0.0	0.0	
109.00		49.5	70.7				0.0	21.7	49.5	92.4	0.0	0.0	
110.00	Appertunance(s)	49.3	70.2	3,393.1	0.0	0.0	2,765.9	0.0	21.7	3,442.3	2,857.8	0.0	0.0
111.00		49.0	69.6					0.0	10.5	49.0	80.1	0.0	0.0
112.00		48.8	69.1					0.0	10.5	48.8	79.6	0.0	0.0
113.00		48.6	68.6					0.0	10.5	48.6	79.0	0.0	0.0
114.00		48.3	68.0					0.0	10.5	48.3	78.5	0.0	0.0
115.00		48.1	67.5					0.0	10.5	48.1	78.0	0.0	0.0
116.00		47.8	67.0					0.0	10.5	47.8	77.4	0.0	0.0
117.00		47.6	66.5					0.0	10.5	47.6	76.9	0.0	0.0
118.00	Appertunance(s)	47.3	65.9	31.0	0.0	0.0	19.1	0.0	10.5	78.4	95.5	0.0	0.0
119.00		47.1	65.4					0.0	9.7	47.1	75.1	0.0	0.0
120.00		46.8	64.9					0.0	9.7	46.8	74.5	0.0	0.0
121.00		46.6	64.3					0.0	9.7	46.6	74.0	0.0	0.0
122.00		46.3	63.8					0.0	9.7	46.3	73.5	0.0	0.0
123.00		46.0	63.3					0.0	9.7	46.0	73.0	0.0	0.0
124.00		45.8	62.8					0.0	9.7	45.8	72.4	0.0	0.0
125.00		45.5	62.2					0.0	9.7	45.5	71.9	0.0	0.0
126.00		45.2	61.7					0.0	9.7	45.2	71.4	0.0	0.0
127.00		45.0	61.2					0.0	9.7	45.0	70.8	0.0	0.0
128.00		44.7	60.6					0.0	9.7	44.7	70.3	0.0	0.0
129.00		44.4	60.1					0.0	9.7	44.4	69.8	0.0	0.0
130.00	Appertunance(s)	44.1	59.6	3,805.1	0.0	2,258.8	3,489.8	0.0	9.7	3,849.2	3,559.1	0.0	0.0
131.00		43.9	59.1					0.0	6.0	43.9	65.1	0.0	0.0
132.00		43.6	58.5					0.0	6.0	43.6	64.6	0.0	0.0
133.00		43.3	58.0					0.0	6.0	43.3	64.0	0.0	0.0
134.00		43.0	57.5					0.0	6.0	43.0	63.5	0.0	0.0
135.00		42.7	56.9					0.0	6.0	42.7	63.0	0.0	0.0
136.00		42.4	56.4					0.0	6.0	42.4	62.5	0.0	0.0
137.00		42.1	55.9					0.0	6.0	42.1	61.9	0.0	0.0
138.00	Appertunance(s)	41.9	55.4	3,030.1	0.0	457.9	3,103.0	0.0	6.0	3,072.0	3,164.4	0.0	0.0
139.00		41.6	54.8					0.0	0.6	41.6	55.5	0.0	0.0
140.00	Appertunance(s)	20.7	54.3	83.0	0.0	398.3	22.9	0.0	0.6	103.7	77.8	0.0	0.0
									Totals:	22,921.8	45,585.8	0.00	0.00

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

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Customer: AT&T MOBILITY

Load Case: Ice

73.61 mph Wind with Ice

29 Iterations

Gust Response Factor : 1.69
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Calculated Shaft Forces and Deflections

Seg Elev (ft)	Lateral FX (-) (kips)	Axial FY (-) (kips)	Lateral FZ (kips)	Moment MX (ft-kips)	Torsion MY (ft-kips)	Moment MZ (ft-kips)	X Deflect (in)	Z Deflect (in)	Total Deflect (in)	Rotation (deg)
0.00	-22.902	-45.579	0.000	0.000	0.000	-2,386.056	0.000	0.000	0.000	0.000
1.00	-22.868	-45.285	0.000	0.000	0.000	-2,363.155	-0.004	0.000	0.004	-0.033
2.00	-22.833	-44.992	0.000	0.000	0.000	-2,340.287	-0.014	0.000	0.014	-0.067
3.00	-22.798	-44.701	0.000	0.000	0.000	-2,317.455	-0.032	0.000	0.032	-0.100
4.00	-22.764	-44.411	0.000	0.000	0.000	-2,294.657	-0.057	0.000	0.057	-0.134
5.00	-22.729	-44.122	0.000	0.000	0.000	-2,271.893	-0.089	0.000	0.089	-0.167
6.00	-22.695	-43.790	0.000	0.000	0.000	-2,249.164	-0.127	0.000	0.127	-0.201
7.00	-22.660	-43.459	0.000	0.000	0.000	-2,226.470	-0.173	0.000	0.173	-0.235
8.00	-22.625	-43.129	0.000	0.000	0.000	-2,203.811	-0.226	0.000	0.226	-0.269
9.00	-22.590	-42.800	0.000	0.000	0.000	-2,181.187	-0.287	0.000	0.287	-0.303
10.00	-22.555	-42.473	0.000	0.000	0.000	-2,158.597	-0.354	0.000	0.354	-0.337
11.00	-22.520	-42.147	0.000	0.000	0.000	-2,136.043	-0.428	0.000	0.428	-0.371
12.00	-22.485	-41.822	0.000	0.000	0.000	-2,113.524	-0.510	0.000	0.510	-0.406
13.00	-22.450	-41.498	0.000	0.000	0.000	-2,091.039	-0.599	0.000	0.599	-0.440
14.00	-22.415	-41.176	0.000	0.000	0.000	-2,068.590	-0.695	0.000	0.695	-0.475
15.00	-22.379	-40.855	0.000	0.000	0.000	-2,046.176	-0.798	0.000	0.798	-0.509
16.00	-22.344	-40.535	0.000	0.000	0.000	-2,023.797	-0.909	0.000	0.909	-0.544
17.00	-22.309	-40.216	0.000	0.000	0.000	-2,001.453	-1.027	0.000	1.027	-0.579
18.00	-22.274	-39.898	0.000	0.000	0.000	-1,979.145	-1.152	0.000	1.152	-0.614
19.00	-22.238	-39.582	0.000	0.000	0.000	-1,956.871	-1.284	0.000	1.284	-0.649
20.00	-22.203	-39.267	0.000	0.000	0.000	-1,934.634	-1.424	0.000	1.424	-0.684
21.00	-22.167	-38.953	0.000	0.000	0.000	-1,912.431	-1.572	0.000	1.572	-0.719
22.00	-22.132	-38.640	0.000	0.000	0.000	-1,890.265	-1.726	0.000	1.726	-0.755
23.00	-22.096	-38.329	0.000	0.000	0.000	-1,868.133	-1.888	0.000	1.888	-0.790
24.00	-22.061	-38.019	0.000	0.000	0.000	-1,846.037	-2.058	0.000	2.058	-0.826
25.00	-22.025	-37.710	0.000	0.000	0.000	-1,823.977	-2.235	0.000	2.235	-0.861
26.00	-21.989	-37.402	0.000	0.000	0.000	-1,801.953	-2.419	0.000	2.419	-0.897
27.00	-21.953	-37.095	0.000	0.000	0.000	-1,779.964	-2.611	0.000	2.611	-0.933
28.00	-21.918	-36.790	0.000	0.000	0.000	-1,758.011	-2.810	0.000	2.810	-0.968
29.00	-21.882	-36.486	0.000	0.000	0.000	-1,736.094	-3.017	0.000	3.017	-1.004
30.00	-21.846	-36.183	0.000	0.000	0.000	-1,714.213	-3.232	0.000	3.232	-1.040
31.00	-21.810	-35.881	0.000	0.000	0.000	-1,692.367	-3.454	0.000	3.454	-1.076
32.00	-21.774	-35.581	0.000	0.000	0.000	-1,670.558	-3.683	0.000	3.683	-1.112
33.00	-21.738	-35.282	0.000	0.000	0.000	-1,648.784	-3.920	0.000	3.920	-1.149
34.00	-21.701	-34.984	0.000	0.000	0.000	-1,627.047	-4.165	0.000	4.165	-1.185
35.00	-21.664	-34.687	0.000	0.000	0.000	-1,605.347	-4.417	0.000	4.417	-1.221
36.00	-21.626	-34.392	0.000	0.000	0.000	-1,583.683	-4.677	0.000	4.677	-1.258
37.00	-21.588	-34.098	0.000	0.000	0.000	-1,562.057	-4.944	0.000	4.944	-1.294
38.00	-21.550	-33.805	0.000	0.000	0.000	-1,540.469	-5.219	0.000	5.219	-1.330
39.00	-21.511	-33.513	0.000	0.000	0.000	-1,518.920	-5.502	0.000	5.502	-1.367
40.00	-21.472	-33.223	0.000	0.000	0.000	-1,497.409	-5.793	0.000	5.793	-1.403
41.00	-21.432	-32.934	0.000	0.000	0.000	-1,475.938	-6.091	0.000	6.091	-1.440
42.00	-21.392	-32.646	0.000	0.000	0.000	-1,454.506	-6.396	0.000	6.396	-1.477
43.00	-21.351	-32.359	0.000	0.000	0.000	-1,433.115	-6.710	0.000	6.710	-1.513
44.00	-21.310	-32.074	0.000	0.000	0.000	-1,411.764	-7.031	0.000	7.031	-1.550
45.00	-21.269	-31.790	0.000	0.000	0.000	-1,390.454	-7.360	0.000	7.360	-1.587
46.00	-21.240	-31.511	0.000	0.000	0.000	-1,369.185	-7.696	0.000	7.696	-1.624
46.25	-21.221	-31.438	0.000	0.000	0.000	-1,363.875	-7.781	0.000	7.781	-1.633
47.00	-21.179	-31.070	0.000	0.000	0.000	-1,347.960	-8.040	0.000	8.040	-1.660
48.00	-21.129	-30.583	0.000	0.000	0.000	-1,326.782	-8.392	0.000	8.392	-1.697
49.00	-21.078	-30.099	0.000	0.000	0.000	-1,305.653	-8.752	0.000	8.752	-1.734

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:56 PM

Customer: AT&T MOBILITY

Load Case: Ice

73.61 mph Wind with Ice

29 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

50.00	-21.027	-29.617	0.000	0.000	0.000	-1,284.575	-9.119	0.000	9.119	-1.771
51.00	-20.975	-29.137	0.000	0.000	0.000	-1,263.549	-9.494	0.000	9.494	-1.808
52.00	-20.928	-28.856	0.000	0.000	0.000	-1,242.574	-9.876	0.000	9.876	-1.844
53.00	-20.881	-28.578	0.000	0.000	0.000	-1,221.646	-10.267	0.000	10.267	-1.878
54.00	-20.832	-28.300	0.000	0.000	0.000	-1,200.766	-10.664	0.000	10.664	-1.912
55.00	-20.784	-28.024	0.000	0.000	0.000	-1,179.934	-11.068	0.000	11.068	-1.946
56.00	-20.735	-27.749	0.000	0.000	0.000	-1,159.151	-11.479	0.000	11.479	-1.980
57.00	-20.686	-27.475	0.000	0.000	0.000	-1,138.416	-11.898	0.000	11.898	-2.013
58.00	-20.637	-27.203	0.000	0.000	0.000	-1,117.730	-12.323	0.000	12.323	-2.047
59.00	-20.588	-26.932	0.000	0.000	0.000	-1,097.093	-12.756	0.000	12.756	-2.081
60.00	-20.538	-26.662	0.000	0.000	0.000	-1,076.506	-13.195	0.000	13.195	-2.114
61.00	-20.488	-26.393	0.000	0.000	0.000	-1,055.969	-13.642	0.000	13.642	-2.148
62.00	-20.437	-26.126	0.000	0.000	0.000	-1,035.482	-14.095	0.000	14.095	-2.181
63.00	-20.387	-25.860	0.000	0.000	0.000	-1,015.045	-14.556	0.000	14.556	-2.214
64.00	-20.336	-25.596	0.000	0.000	0.000	-994.658	-15.023	0.000	15.023	-2.248
65.00	-20.285	-25.332	0.000	0.000	0.000	-974.323	-15.497	0.000	15.497	-2.281
66.00	-20.234	-25.070	0.000	0.000	0.000	-954.038	-15.979	0.000	15.979	-2.314
67.00	-20.182	-24.810	0.000	0.000	0.000	-933.805	-16.467	0.000	16.467	-2.346
68.00	-20.130	-24.550	0.000	0.000	0.000	-913.624	-16.962	0.000	16.962	-2.379
69.00	-20.078	-24.292	0.000	0.000	0.000	-893.494	-17.464	0.000	17.464	-2.412
70.00	-20.026	-24.035	0.000	0.000	0.000	-873.416	-17.972	0.000	17.972	-2.444
71.00	-19.974	-23.780	0.000	0.000	0.000	-853.390	-18.488	0.000	18.488	-2.476
72.00	-19.921	-23.526	0.000	0.000	0.000	-833.417	-19.010	0.000	19.010	-2.508
73.00	-19.868	-23.273	0.000	0.000	0.000	-813.496	-19.539	0.000	19.539	-2.540
74.00	-19.815	-23.022	0.000	0.000	0.000	-793.628	-20.074	0.000	20.074	-2.572
75.00	-19.762	-22.772	0.000	0.000	0.000	-773.813	-20.616	0.000	20.616	-2.603
76.00	-19.709	-22.523	0.000	0.000	0.000	-754.051	-21.165	0.000	21.165	-2.634
77.00	-19.655	-22.276	0.000	0.000	0.000	-734.343	-21.720	0.000	21.720	-2.665
78.00	-19.602	-22.030	0.000	0.000	0.000	-714.688	-22.281	0.000	22.281	-2.696
79.00	-19.548	-21.785	0.000	0.000	0.000	-695.087	-22.849	0.000	22.849	-2.726
80.00	-19.493	-21.542	0.000	0.000	0.000	-675.540	-23.424	0.000	23.424	-2.757
81.00	-19.439	-21.300	0.000	0.000	0.000	-656.047	-24.004	0.000	24.004	-2.787
82.00	-19.385	-21.059	0.000	0.000	0.000	-636.608	-24.591	0.000	24.591	-2.816
83.00	-19.330	-20.820	0.000	0.000	0.000	-617.223	-25.184	0.000	25.184	-2.845
84.00	-19.275	-20.582	0.000	0.000	0.000	-597.894	-25.783	0.000	25.783	-2.874
85.00	-19.221	-20.346	0.000	0.000	0.000	-578.619	-26.388	0.000	26.388	-2.903
86.00	-19.165	-20.111	0.000	0.000	0.000	-559.398	-26.999	0.000	26.999	-2.931
87.00	-16.762	-17.376	0.000	0.000	0.000	-540.233	-27.616	0.000	27.616	-2.958
88.00	-16.706	-17.156	0.000	0.000	0.000	-523.471	-28.238	0.000	28.238	-2.986
89.00	-16.650	-16.937	0.000	0.000	0.000	-506.765	-28.866	0.000	28.866	-3.013
90.00	-16.594	-16.719	0.000	0.000	0.000	-490.115	-29.500	0.000	29.500	-3.039
91.00	-16.538	-16.503	0.000	0.000	0.000	-473.521	-30.139	0.000	30.139	-3.066
92.00	-16.482	-16.288	0.000	0.000	0.000	-456.983	-30.784	0.000	30.784	-3.092
93.00	-16.437	-16.075	0.000	0.000	0.000	-440.501	-31.434	0.000	31.434	-3.117
93.50	-16.409	-15.969	0.000	0.000	0.000	-432.283	-31.761	0.000	31.761	-3.130
94.00	-16.367	-15.832	0.000	0.000	0.000	-424.078	-32.090	0.000	32.090	-3.142
95.00	-16.307	-15.561	0.000	0.000	0.000	-407.711	-32.751	0.000	32.751	-3.167
96.00	-16.247	-15.293	0.000	0.000	0.000	-391.405	-33.416	0.000	33.416	-3.191
97.00	-16.203	-15.027	0.000	0.000	0.000	-375.159	-34.087	0.000	34.087	-3.215
97.25	-16.177	-14.960	0.000	0.000	0.000	-371.108	-34.256	0.000	34.256	-3.221
98.00	-16.137	-14.869	0.000	0.000	0.000	-358.976	-34.763	0.000	34.763	-3.238
99.00	-16.093	-14.747	0.000	0.000	0.000	-342.839	-35.447	0.000	35.447	-3.294
100.0	-12.894	-11.712	0.000	0.000	0.000	-326.746	-36.143	0.000	36.143	-3.349
101.0	-12.848	-11.607	0.000	0.000	0.000	-313.853	-36.851	0.000	36.851	-3.402
102.0	-12.802	-11.502	0.000	0.000	0.000	-301.005	-37.569	0.000	37.569	-3.455
103.0	-12.755	-11.399	0.000	0.000	0.000	-288.204	-38.298	0.000	38.298	-3.506
104.0	-12.709	-11.296	0.000	0.000	0.000	-275.449	-39.038	0.000	39.038	-3.556

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

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Customer: AT&T MOBILITY

Load Case: Ice

73.61 mph Wind with Ice

29 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

105.0	-12.662	-11.194	0.000	0.000	0.000	-262.741	-39.788	0.000	39.788	-3.605
106.0	-12.615	-11.093	0.000	0.000	0.000	-250.080	-40.548	0.000	40.548	-3.652
107.0	-12.568	-10.993	0.000	0.000	0.000	-237.465	-41.318	0.000	41.318	-3.699
108.0	-12.521	-10.894	0.000	0.000	0.000	-224.897	-42.097	0.000	42.097	-3.744
109.0	-12.473	-10.796	0.000	0.000	0.000	-212.377	-42.886	0.000	42.886	-3.787
110.0	-8.855	-8.167	0.000	0.000	0.000	-199.904	-43.684	0.000	43.684	-3.829
111.0	-8.806	-8.084	0.000	0.000	0.000	-191.049	-44.490	0.000	44.490	-3.869
112.0	-8.757	-8.002	0.000	0.000	0.000	-182.244	-45.304	0.000	45.304	-3.909
113.0	-8.709	-7.921	0.000	0.000	0.000	-173.486	-46.127	0.000	46.127	-3.948
114.0	-8.660	-7.840	0.000	0.000	0.000	-164.778	-46.957	0.000	46.957	-3.985
115.0	-8.612	-7.760	0.000	0.000	0.000	-156.118	-47.795	0.000	47.795	-4.022
116.0	-8.563	-7.681	0.000	0.000	0.000	-147.506	-48.641	0.000	48.641	-4.057
117.0	-8.515	-7.603	0.000	0.000	0.000	-138.943	-49.494	0.000	49.494	-4.092
118.0	-8.434	-7.508	0.000	0.000	0.000	-130.428	-50.355	0.000	50.355	-4.125
119.0	-8.386	-7.432	0.000	0.000	0.000	-121.994	-51.221	0.000	51.221	-4.156
120.0	-8.338	-7.357	0.000	0.000	0.000	-113.608	-52.095	0.000	52.095	-4.186
121.0	-8.289	-7.283	0.000	0.000	0.000	-105.271	-52.974	0.000	52.974	-4.215
122.0	-8.241	-7.209	0.000	0.000	0.000	-96.982	-53.860	0.000	53.860	-4.243
123.0	-8.193	-7.136	0.000	0.000	0.000	-88.741	-54.751	0.000	54.751	-4.268
124.0	-8.145	-7.064	0.000	0.000	0.000	-80.548	-55.647	0.000	55.647	-4.292
125.0	-8.097	-6.993	0.000	0.000	0.000	-72.403	-56.548	0.000	56.548	-4.315
126.0	-8.049	-6.922	0.000	0.000	0.000	-64.307	-57.453	0.000	57.453	-4.335
127.0	-8.001	-6.853	0.000	0.000	0.000	-56.258	-58.363	0.000	58.363	-4.353
128.0	-7.953	-6.784	0.000	0.000	0.000	-48.258	-59.276	0.000	59.276	-4.370
129.0	-7.904	-6.716	0.000	0.000	0.000	-40.305	-60.192	0.000	60.192	-4.384
130.0	-3.795	-3.461	0.000	0.000	0.000	-30.142	-61.111	0.000	61.111	-4.396
131.0	-3.746	-3.399	0.000	0.000	0.000	-26.348	-62.032	0.000	62.032	-4.406
132.0	-3.699	-3.338	0.000	0.000	0.000	-22.602	-62.955	0.000	62.955	-4.414
133.0	-3.651	-3.277	0.000	0.000	0.000	-18.903	-63.880	0.000	63.880	-4.422
134.0	-3.603	-3.216	0.000	0.000	0.000	-15.252	-64.806	0.000	64.806	-4.428
135.0	-3.556	-3.156	0.000	0.000	0.000	-11.649	-65.733	0.000	65.733	-4.433
136.0	-3.509	-3.097	0.000	0.000	0.000	-8.093	-66.662	0.000	66.662	-4.437
137.0	-3.463	-3.039	0.000	0.000	0.000	-4.583	-67.590	0.000	67.590	-4.440
138.0	-0.155	-0.122	0.000	0.000	0.000	-0.663	-68.520	0.000	68.520	-4.441
139.0	-0.109	-0.070	0.000	0.000	0.000	-0.508	-69.449	0.000	69.449	-4.441
140.0	-0.104	0.000	0.000	0.000	0.000	-0.398	-70.378	0.000	70.378	-4.441

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:56 PM

Customer: AT&T MOBILITY

Load Case: Ice

73.61 mph Wind with Ice

29 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Combined (ksi)	Allowable Stress (Fb) (ksi)	Allowable Stress (Fa) (ksi)	Stress Ratio
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)					
0.00	0.62	0.62	0.00	0.00	0.00	33.70	34.34	52.0	0.0	0.661	
1.00	0.61	0.63	0.00	0.00	0.00	33.67	34.30	52.0	0.0	0.660	
2.00	0.61	0.63	0.00	0.00	0.00	33.63	34.26	52.0	0.0	0.659	
3.00	0.61	0.63	0.00	0.00	0.00	33.60	34.23	52.0	0.0	0.658	
4.00	0.61	0.63	0.00	0.00	0.00	33.56	34.19	52.0	0.0	0.658	
5.00	0.61	0.63	0.00	0.00	0.00	33.52	34.15	52.0	0.0	0.657	
6.00	0.61	0.63	0.00	0.00	0.00	33.48	34.10	52.0	0.0	0.656	
7.00	0.61	0.64	0.00	0.00	0.00	33.44	34.06	52.0	0.0	0.655	
8.00	0.60	0.64	0.00	0.00	0.00	33.39	34.01	52.0	0.0	0.654	
9.00	0.60	0.64	0.00	0.00	0.00	33.35	33.97	52.0	0.0	0.653	
10.00	0.60	0.64	0.00	0.00	0.00	33.30	33.92	52.0	0.0	0.653	
11.00	0.60	0.64	0.00	0.00	0.00	33.25	33.87	52.0	0.0	0.652	
12.00	0.60	0.65	0.00	0.00	0.00	33.20	33.82	52.0	0.0	0.651	
13.00	0.59	0.65	0.00	0.00	0.00	33.15	33.76	52.0	0.0	0.649	
14.00	0.59	0.65	0.00	0.00	0.00	33.09	33.71	52.0	0.0	0.648	
15.00	0.59	0.65	0.00	0.00	0.00	33.04	33.65	52.0	0.0	0.647	
16.00	0.59	0.65	0.00	0.00	0.00	32.98	33.59	52.0	0.0	0.646	
17.00	0.59	0.66	0.00	0.00	0.00	32.92	33.53	52.0	0.0	0.645	
18.00	0.58	0.66	0.00	0.00	0.00	32.86	33.46	52.0	0.0	0.644	
19.00	0.58	0.66	0.00	0.00	0.00	32.79	33.40	52.0	0.0	0.642	
20.00	0.58	0.66	0.00	0.00	0.00	32.73	33.33	52.0	0.0	0.641	
21.00	0.58	0.66	0.00	0.00	0.00	32.66	33.26	52.0	0.0	0.640	
22.00	0.58	0.67	0.00	0.00	0.00	32.59	33.19	52.0	0.0	0.638	
23.00	0.57	0.67	0.00	0.00	0.00	32.52	33.11	52.0	0.0	0.637	
24.00	0.57	0.67	0.00	0.00	0.00	32.44	33.04	52.0	0.0	0.636	
25.00	0.57	0.67	0.00	0.00	0.00	32.37	32.96	52.0	0.0	0.634	
26.00	0.57	0.67	0.00	0.00	0.00	32.29	32.88	52.0	0.0	0.632	
27.00	0.57	0.68	0.00	0.00	0.00	32.21	32.79	52.0	0.0	0.631	
28.00	0.57	0.68	0.00	0.00	0.00	32.12	32.71	52.0	0.0	0.629	
29.00	0.56	0.68	0.00	0.00	0.00	32.03	32.62	52.0	0.0	0.628	
30.00	0.56	0.68	0.00	0.00	0.00	31.94	32.53	52.0	0.0	0.626	
31.00	0.56	0.69	0.00	0.00	0.00	31.85	32.43	52.0	0.0	0.624	
32.00	0.56	0.69	0.00	0.00	0.00	31.76	32.34	52.0	0.0	0.622	
33.00	0.56	0.69	0.00	0.00	0.00	31.66	32.24	52.0	0.0	0.620	
34.00	0.55	0.69	0.00	0.00	0.00	31.56	32.13	52.0	0.0	0.618	
35.00	0.55	0.69	0.00	0.00	0.00	31.45	32.03	52.0	0.0	0.616	
36.00	0.55	0.70	0.00	0.00	0.00	31.35	31.92	52.0	0.0	0.614	
37.00	0.55	0.70	0.00	0.00	0.00	31.24	31.81	52.0	0.0	0.612	
38.00	0.55	0.70	0.00	0.00	0.00	31.12	31.69	52.0	0.0	0.610	
39.00	0.54	0.70	0.00	0.00	0.00	31.01	31.58	52.0	0.0	0.607	
40.00	0.54	0.71	0.00	0.00	0.00	30.89	31.45	52.0	0.0	0.605	
41.00	0.54	0.71	0.00	0.00	0.00	30.77	31.33	52.0	0.0	0.603	
42.00	0.54	0.71	0.00	0.00	0.00	30.64	31.20	52.0	0.0	0.600	
43.00	0.54	0.71	0.00	0.00	0.00	30.51	31.07	52.0	0.0	0.598	
44.00	0.53	0.72	0.00	0.00	0.00	30.37	30.93	52.0	0.0	0.595	
45.00	0.53	0.72	0.00	0.00	0.00	30.24	30.79	52.0	0.0	0.592	
46.00	0.53	0.72	0.00	0.00	0.00	30.10	30.65	52.0	0.0	0.590	
46.25	0.53	0.72	0.00	0.00	0.00	30.06	30.62	52.0	0.0	0.589	
47.00	0.53	0.72	0.00	0.00	0.00	29.95	30.50	52.0	0.0	0.587	
48.00	0.52	0.72	0.00	0.00	0.00	29.80	30.35	52.0	0.0	0.584	
49.00	0.51	0.73	0.00	0.00	0.00	29.65	30.19	52.0	0.0	0.581	

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:56 PM

Customer: AT&T MOBILITY

Load Case: Ice		73.61 mph Wind with Ice							29 Iterations	
Gust Response Factor : 1.69										
Dead Load Factor : 1.00										
Wind Load Factor : 1.00										

50.00	0.51	0.73	0.00	0.00	0.00	29.49	30.03	52.0	0.0	0.578
51.00	0.49	0.71	0.00	0.00	0.00	27.77	28.29	52.0	0.0	0.544
52.00	0.49	0.71	0.00	0.00	0.00	27.61	28.13	52.0	0.0	0.541
53.00	0.49	0.72	0.00	0.00	0.00	27.44	27.95	52.0	0.0	0.538
54.00	0.48	0.72	0.00	0.00	0.00	27.27	27.78	52.0	0.0	0.534
55.00	0.48	0.72	0.00	0.00	0.00	27.09	27.60	52.0	0.0	0.531
56.00	0.48	0.72	0.00	0.00	0.00	26.91	27.42	52.0	0.0	0.527
57.00	0.48	0.73	0.00	0.00	0.00	26.72	27.23	52.0	0.0	0.524
58.00	0.48	0.73	0.00	0.00	0.00	26.53	27.03	52.0	0.0	0.520
59.00	0.47	0.73	0.00	0.00	0.00	26.33	26.84	52.0	0.0	0.516
60.00	0.47	0.73	0.00	0.00	0.00	26.13	26.63	52.0	0.0	0.512
61.00	0.47	0.73	0.00	0.00	0.00	25.93	26.43	52.0	0.0	0.508
62.00	0.47	0.74	0.00	0.00	0.00	25.71	26.21	52.0	0.0	0.504
63.00	0.47	0.74	0.00	0.00	0.00	25.50	25.99	52.0	0.0	0.500
64.00	0.46	0.74	0.00	0.00	0.00	25.28	25.77	52.0	0.0	0.496
65.00	0.46	0.74	0.00	0.00	0.00	25.05	25.54	52.0	0.0	0.491
66.00	0.46	0.75	0.00	0.00	0.00	24.81	25.31	52.0	0.0	0.487
67.00	0.46	0.75	0.00	0.00	0.00	24.57	25.06	52.0	0.0	0.482
68.00	0.45	0.75	0.00	0.00	0.00	24.33	24.82	52.0	0.0	0.477
69.00	0.45	0.75	0.00	0.00	0.00	24.08	24.56	52.0	0.0	0.473
70.00	0.45	0.76	0.00	0.00	0.00	23.82	24.30	52.0	0.0	0.468
71.00	0.45	0.76	0.00	0.00	0.00	23.55	24.04	52.0	0.0	0.462
72.00	0.45	0.76	0.00	0.00	0.00	23.28	23.77	52.0	0.0	0.457
73.00	0.44	0.76	0.00	0.00	0.00	23.00	23.49	52.0	0.0	0.452
74.00	0.44	0.77	0.00	0.00	0.00	22.72	23.20	52.0	0.0	0.446
75.00	0.44	0.77	0.00	0.00	0.00	22.43	22.91	52.0	0.0	0.441
76.00	0.44	0.77	0.00	0.00	0.00	22.13	22.60	52.0	0.0	0.435
77.00	0.44	0.77	0.00	0.00	0.00	21.82	22.29	52.0	0.0	0.429
78.00	0.43	0.78	0.00	0.00	0.00	21.50	21.98	52.0	0.0	0.423
79.00	0.43	0.78	0.00	0.00	0.00	21.18	21.65	52.0	0.0	0.417
80.00	0.43	0.78	0.00	0.00	0.00	20.85	21.32	52.0	0.0	0.410
81.00	0.43	0.79	0.00	0.00	0.00	20.51	20.98	52.0	0.0	0.404
82.00	0.42	0.79	0.00	0.00	0.00	20.16	20.63	52.0	0.0	0.397
83.00	0.42	0.79	0.00	0.00	0.00	19.80	20.27	52.0	0.0	0.390
84.00	0.42	0.79	0.00	0.00	0.00	19.43	19.90	52.0	0.0	0.383
85.00	0.42	0.80	0.00	0.00	0.00	19.05	19.52	52.0	0.0	0.375
86.00	0.42	0.80	0.00	0.00	0.00	18.66	19.13	52.0	0.0	0.368
87.00	0.36	0.70	0.00	0.00	0.00	18.26	18.67	52.0	0.0	0.359
88.00	0.36	0.71	0.00	0.00	0.00	17.94	18.34	52.0	0.0	0.353
89.00	0.36	0.71	0.00	0.00	0.00	17.60	18.00	52.0	0.0	0.346
90.00	0.36	0.71	0.00	0.00	0.00	17.25	17.65	52.0	0.0	0.340
91.00	0.35	0.71	0.00	0.00	0.00	16.90	17.30	52.0	0.0	0.333
92.00	0.35	0.72	0.00	0.00	0.00	16.53	16.93	52.0	0.0	0.326
93.00	0.35	0.72	0.00	0.00	0.00	16.16	16.56	52.0	0.0	0.319
93.50	0.35	0.72	0.00	0.00	0.00	15.97	16.37	52.0	0.0	0.315
94.00	0.35	0.72	0.00	0.00	0.00	15.78	16.17	52.0	0.0	0.311
95.00	0.34	0.72	0.00	0.00	0.00	15.38	15.77	52.0	0.0	0.303
96.00	0.34	0.73	0.00	0.00	0.00	14.98	15.37	52.0	0.0	0.296
97.00	0.34	0.73	0.00	0.00	0.00	14.56	14.95	52.0	0.0	0.288
97.25	0.87	1.90	0.00	0.00	0.00	36.33	37.34	51.3	0.0	0.727
98.00	0.87	1.90	0.00	0.00	0.00	35.51	36.53	51.5	0.0	0.710
99.00	0.87	1.91	0.00	0.00	0.00	34.39	35.42	51.6	0.0	0.686
100.00	0.70	1.54	0.00	0.00	0.00	33.25	34.05	51.8	0.0	0.657
101.00	0.69	1.55	0.00	0.00	0.00	32.39	33.19	51.9	0.0	0.639
102.00	0.69	1.55	0.00	0.00	0.00	31.51	32.32	52.0	0.0	0.622
103.00	0.69	1.56	0.00	0.00	0.00	30.61	31.42	52.0	0.0	0.604
104.00	0.69	1.56	0.00	0.00	0.00	29.69	30.50	52.0	0.0	0.587

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:57 PM

Customer: AT&T MOBILITY

Load Case: Ice

73.61 mph Wind with Ice

29 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

105.00	0.69	1.57	0.00	0.00	0.00	28.73	29.55	52.0	0.0	0.568
106.00	0.69	1.58	0.00	0.00	0.00	27.76	28.57	52.0	0.0	0.550
107.00	0.69	1.58	0.00	0.00	0.00	26.75	27.57	52.0	0.0	0.530
108.00	0.69	1.59	0.00	0.00	0.00	25.72	26.54	52.0	0.0	0.511
109.00	0.68	1.59	0.00	0.00	0.00	24.65	25.49	52.0	0.0	0.490
110.00	0.52	1.14	0.00	0.00	0.00	23.56	24.16	52.0	0.0	0.465
111.00	0.52	1.14	0.00	0.00	0.00	22.87	23.47	52.0	0.0	0.451
112.00	0.52	1.14	0.00	0.00	0.00	22.15	22.76	52.0	0.0	0.438
113.00	0.52	1.15	0.00	0.00	0.00	21.42	22.02	52.0	0.0	0.424
114.00	0.52	1.15	0.00	0.00	0.00	20.66	21.27	52.0	0.0	0.409
115.00	0.52	1.15	0.00	0.00	0.00	19.89	20.50	52.0	0.0	0.394
116.00	0.51	1.15	0.00	0.00	0.00	19.09	19.71	52.0	0.0	0.379
117.00	0.51	1.16	0.00	0.00	0.00	18.28	18.90	52.0	0.0	0.364
118.00	0.51	1.16	0.00	0.00	0.00	17.44	18.06	52.0	0.0	0.347
119.00	0.51	1.16	0.00	0.00	0.00	16.58	17.20	52.0	0.0	0.331
120.00	0.51	1.16	0.00	0.00	0.00	15.69	16.33	52.0	0.0	0.314
121.00	0.51	1.16	0.00	0.00	0.00	14.78	15.42	52.0	0.0	0.297
122.00	0.51	1.17	0.00	0.00	0.00	13.85	14.50	52.0	0.0	0.279
123.00	0.51	1.17	0.00	0.00	0.00	12.89	13.55	52.0	0.0	0.261
124.00	0.50	1.17	0.00	0.00	0.00	11.90	12.57	52.0	0.0	0.242
125.00	0.50	1.18	0.00	0.00	0.00	10.88	11.57	52.0	0.0	0.223
126.00	0.50	1.18	0.00	0.00	0.00	9.83	10.54	52.0	0.0	0.203
127.00	0.50	1.18	0.00	0.00	0.00	8.75	9.48	52.0	0.0	0.182
128.00	0.50	1.19	0.00	0.00	0.00	7.64	8.40	52.0	0.0	0.162
129.00	0.50	1.19	0.00	0.00	0.00	6.50	7.30	52.0	0.0	0.140
130.00	0.26	0.58	0.00	0.00	0.00	4.95	5.30	52.0	0.0	0.102
131.00	0.26	0.57	0.00	0.00	0.00	4.40	4.77	52.0	0.0	0.092
132.00	0.26	0.57	0.00	0.00	0.00	3.85	4.22	52.0	0.0	0.081
133.00	0.25	0.57	0.00	0.00	0.00	3.28	3.67	52.0	0.0	0.071
134.00	0.25	0.57	0.00	0.00	0.00	2.69	3.10	52.0	0.0	0.060
135.00	0.25	0.57	0.00	0.00	0.00	2.10	2.54	52.0	0.0	0.049
136.00	0.25	0.56	0.00	0.00	0.00	1.48	1.99	52.0	0.0	0.038
137.00	0.24	0.56	0.00	0.00	0.00	0.86	1.47	52.0	0.0	0.028
138.00	0.01	0.03	0.00	0.00	0.00	0.13	0.14	52.0	0.0	0.003
139.00	0.01	0.02	0.00	0.00	0.00	0.10	0.11	52.0	0.0	0.002
140.00	0.00	0.02	0.00	0.00	0.00	0.08	0.08	52.0	0.0	0.002

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:47:57 PM

Customer: AT&T MOBILITY

Load Case: Twist/Sway

50.00 mph Wind with No Ice

28 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion Moment MY (lb-ft)	MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion Moment MY (lb-ft)	MZ (lb)
0.00		13.8	0.0					0.0	0.0	13.8	0.0	0.0	0.0
1.00		27.5	251.3					0.0	0.0	27.5	251.3	0.0	0.0
2.00		27.4	250.2					0.0	0.0	27.4	250.2	0.0	0.0
3.00		27.3	249.1					0.0	0.0	27.3	249.1	0.0	0.0
4.00		27.1	248.0					0.0	0.0	27.1	248.0	0.0	0.0
5.00		27.0	246.9					0.0	0.0	27.0	246.9	0.0	0.0
6.00		26.9	245.9					0.0	44.5	26.9	290.4	0.0	0.0
7.00		26.8	244.8					0.0	44.5	26.8	289.3	0.0	0.0
8.00		26.7	243.7					0.0	44.5	26.7	288.2	0.0	0.0
9.00		26.6	242.6					0.0	44.5	26.6	287.1	0.0	0.0
10.00		26.4	241.5					0.0	44.5	26.4	286.0	0.0	0.0
11.00		26.3	240.5					0.0	44.5	26.3	285.0	0.0	0.0
12.00		26.2	239.4					0.0	44.5	26.2	283.9	0.0	0.0
13.00		26.1	238.3					0.0	44.5	26.1	282.8	0.0	0.0
14.00		26.0	237.2					0.0	44.5	26.0	281.7	0.0	0.0
15.00		25.9	236.1					0.0	44.5	25.9	280.6	0.0	0.0
16.00		25.7	235.1					0.0	44.5	25.7	279.6	0.0	0.0
17.00		25.6	234.0					0.0	44.5	25.6	278.5	0.0	0.0
18.00		25.5	232.9					0.0	44.5	25.5	277.4	0.0	0.0
19.00		25.4	231.8					0.0	44.5	25.4	276.3	0.0	0.0
20.00		25.3	230.7					0.0	44.5	25.3	275.2	0.0	0.0
21.00		25.2	229.7					0.0	44.5	25.2	274.2	0.0	0.0
22.00		25.0	228.6					0.0	44.5	25.0	273.1	0.0	0.0
23.00		24.9	227.5					0.0	44.5	24.9	272.0	0.0	0.0
24.00		24.8	226.4					0.0	44.5	24.8	270.9	0.0	0.0
25.00		24.7	225.3					0.0	44.5	24.7	269.8	0.0	0.0
26.00		24.6	224.3					0.0	44.5	24.6	268.8	0.0	0.0
27.00		24.4	223.2					0.0	44.5	24.4	267.7	0.0	0.0
28.00		24.3	222.1					0.0	44.5	24.3	266.6	0.0	0.0
29.00		24.2	221.0					0.0	44.5	24.2	265.5	0.0	0.0
30.00		24.1	219.9					0.0	44.5	24.1	264.4	0.0	0.0
31.00		24.0	218.9					0.0	44.5	24.0	263.4	0.0	0.0
32.00		23.9	217.8					0.0	44.5	23.9	262.3	0.0	0.0
33.00		23.8	216.7					0.0	44.5	23.8	261.2	0.0	0.0
34.00		23.8	215.6					0.0	44.5	23.8	260.1	0.0	0.0
35.00		23.9	214.5					0.0	44.5	23.9	259.0	0.0	0.0
36.00		24.0	213.5					0.0	44.5	24.0	258.0	0.0	0.0
37.00		24.0	212.4					0.0	44.5	24.0	256.9	0.0	0.0
38.00		24.1	211.3					0.0	44.5	24.1	255.8	0.0	0.0
39.00		24.2	210.2					0.0	44.5	24.2	254.7	0.0	0.0
40.00		24.2	209.1					0.0	44.5	24.2	253.6	0.0	0.0
41.00		24.3	208.1					0.0	44.5	24.3	252.6	0.0	0.0
42.00		24.3	207.0					0.0	44.5	24.3	251.5	0.0	0.0
43.00		24.3	205.9					0.0	44.5	24.3	250.4	0.0	0.0
44.00		24.4	204.8					0.0	44.5	24.4	249.3	0.0	0.0
45.00		24.4	203.7					0.0	44.5	24.4	248.2	0.0	0.0
46.00		15.3	202.7					0.0	44.5	15.3	247.2	0.0	0.0
46.25	Bot - Section 2	12.5	50.5					0.0	11.1	12.5	61.6	0.0	0.0

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:48:08 PM

Customer: AT&T MOBILITY

Load Case: Twist/Sway

50.00 mph Wind with No Ice

28 Iterations

Gust Response Factor : 1.69
Dead Load Factor : 1.00
Wind Load Factor : 1.00

47.00		22.0	306.2				0.0	33.4	22.0	339.6	0.0	0.0	
48.00		25.1	406.4				0.0	44.5	25.1	450.9	0.0	0.0	
49.00		25.1	404.2				0.0	44.5	25.1	448.7	0.0	0.0	
50.00		25.2	402.1				0.0	44.5	25.2	446.6	0.0	0.0	
51.00	Top - Section 1	25.2	399.9				0.0	44.5	25.2	444.4	0.0	0.0	
52.00		25.2	201.6				0.0	44.5	25.2	246.1	0.0	0.0	
53.00		25.2	200.5				0.0	44.5	25.2	245.0	0.0	0.0	
54.00		25.2	199.4				0.0	44.5	25.2	243.9	0.0	0.0	
55.00		25.2	198.3				0.0	44.5	25.2	242.8	0.0	0.0	
56.00		25.2	197.3				0.0	44.5	25.2	241.8	0.0	0.0	
57.00		25.2	196.2				0.0	44.5	25.2	240.7	0.0	0.0	
58.00		25.1	195.1				0.0	44.5	25.1	239.6	0.0	0.0	
59.00		25.1	194.0				0.0	44.5	25.1	238.5	0.0	0.0	
60.00		25.1	192.9				0.0	44.5	25.1	237.4	0.0	0.0	
61.00		25.1	191.9				0.0	44.5	25.1	236.3	0.0	0.0	
62.00		25.1	190.8				0.0	44.5	25.1	235.3	0.0	0.0	
63.00		25.0	189.7				0.0	44.5	25.0	234.2	0.0	0.0	
64.00		25.0	188.6				0.0	44.5	25.0	233.1	0.0	0.0	
65.00		25.0	187.5				0.0	44.5	25.0	232.0	0.0	0.0	
66.00		24.9	186.4				0.0	44.5	24.9	230.9	0.0	0.0	
67.00		24.9	185.4				0.0	44.5	24.9	229.9	0.0	0.0	
68.00		24.9	184.3				0.0	44.5	24.9	228.8	0.0	0.0	
69.00		24.8	183.2				0.0	44.5	24.8	227.7	0.0	0.0	
70.00		24.8	182.1				0.0	44.5	24.8	226.6	0.0	0.0	
71.00		24.7	181.0				0.0	44.5	24.7	225.5	0.0	0.0	
72.00		24.7	180.0				0.0	44.5	24.7	224.5	0.0	0.0	
73.00		24.6	178.9				0.0	44.5	24.6	223.4	0.0	0.0	
74.00		24.6	177.8				0.0	44.5	24.6	222.3	0.0	0.0	
75.00		24.5	176.7				0.0	44.5	24.5	221.2	0.0	0.0	
76.00		24.5	175.6				0.0	44.5	24.5	220.1	0.0	0.0	
77.00		24.4	174.6				0.0	44.5	24.4	219.1	0.0	0.0	
78.00		24.4	173.5				0.0	44.5	24.4	218.0	0.0	0.0	
79.00		24.3	172.4				0.0	44.5	24.3	216.9	0.0	0.0	
80.00		24.2	171.3				0.0	44.5	24.2	215.8	0.0	0.0	
81.00		24.2	170.2				0.0	44.5	24.2	214.7	0.0	0.0	
82.00		24.1	169.2				0.0	44.5	24.1	213.7	0.0	0.0	
83.00		24.0	168.1				0.0	44.5	24.0	212.6	0.0	0.0	
84.00		24.0	167.0				0.0	44.5	24.0	211.5	0.0	0.0	
85.00		23.9	165.9				0.0	44.5	23.9	210.4	0.0	0.0	
86.00		23.8	164.8				0.0	44.5	23.8	209.3	0.0	0.0	
87.00	Appertunance(s)	23.7	163.8	888.2	0.0	0.0	2,071.5	0.0	44.5	912.0	2,279.8	0.0	0.0
88.00		23.7	162.7					0.0	33.7	23.7	196.3	0.0	0.0
89.00		23.6	161.6					0.0	33.7	23.6	195.3	0.0	0.0
90.00		23.5	160.5					0.0	33.7	23.5	194.2	0.0	0.0
91.00		23.4	159.4					0.0	33.7	23.4	193.1	0.0	0.0
92.00		23.3	158.4					0.0	33.7	23.3	192.0	0.0	0.0
93.00		17.5	157.3					0.0	33.7	17.5	190.9	0.0	0.0
93.50	Bot - Section 3	11.7	78.2					0.0	16.8	11.7	95.1	0.0	0.0
94.00		17.6	107.9					0.0	16.8	17.6	124.7	0.0	0.0
95.00		23.4	214.7					0.0	33.7	23.4	248.3	0.0	0.0
96.00		23.3	213.2					0.0	33.7	23.3	246.9	0.0	0.0
97.00		14.5	211.7					0.0	33.7	14.5	245.4	0.0	0.0
97.25	Top - Section 2	11.6	52.7					0.0	8.4	11.6	61.1	0.0	0.0
98.00		20.2	43.7					0.0	25.2	20.2	69.0	0.0	0.0
99.00		23.0	57.9					0.0	33.7	23.0	91.6	0.0	0.0
100.00	Appertunance(s)	22.9	57.5	1,574.5	0.0	0.0	2,567.4	0.0	33.7	1,597.4	2,658.6	0.0	0.0
101.00		22.8	57.1					0.0	21.7	22.8	78.9	0.0	0.0

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:48:08 PM

Customer: AT&T MOBILITY

Load Case: Twist/Sway		50.00 mph Wind with No Ice						28 Iterations	
Gust Response Factor : 1.69									
Dead Load Factor : 1.00									
Wind Load Factor : 1.00									

102.00		22.7	56.7				0.0	21.7	22.7	78.5	0.0	0.0	
103.00		22.6	56.3				0.0	21.7	22.6	78.1	0.0	0.0	
104.00		22.5	55.9				0.0	21.7	22.5	77.7	0.0	0.0	
105.00		22.4	55.5				0.0	21.7	22.4	77.3	0.0	0.0	
106.00		22.3	55.1				0.0	21.7	22.3	76.9	0.0	0.0	
107.00		22.2	54.7				0.0	21.7	22.2	76.5	0.0	0.0	
108.00		22.1	54.3				0.0	21.7	22.1	76.0	0.0	0.0	
109.00		22.0	53.9				0.0	21.7	22.0	75.6	0.0	0.0	
110.00	Appertunance(s)	21.9	53.5	1,343.6	0.0	0.0	1,907.6	0.0	21.7	1,365.5	1,982.8	0.0	0.0
111.00		21.8	53.1					0.0	10.5	21.8	63.5	0.0	0.0
112.00		21.7	52.7					0.0	10.5	21.7	63.1	0.0	0.0
113.00		21.6	52.3					0.0	10.5	21.6	62.7	0.0	0.0
114.00		21.5	51.9					0.0	10.5	21.5	62.3	0.0	0.0
115.00		21.3	51.5					0.0	10.5	21.3	61.9	0.0	0.0
116.00		21.2	51.1					0.0	10.5	21.2	61.5	0.0	0.0
117.00		21.1	50.7					0.0	10.5	21.1	61.1	0.0	0.0
118.00	Appertunance(s)	21.0	50.2	11.5	0.0	0.0	8.3	0.0	10.5	32.5	69.0	0.0	0.0
119.00		20.9	49.8					0.0	9.7	20.9	59.5	0.0	0.0
120.00		20.8	49.4					0.0	9.7	20.8	59.1	0.0	0.0
121.00		20.6	49.0					0.0	9.7	20.6	58.7	0.0	0.0
122.00		20.5	48.6					0.0	9.7	20.5	58.3	0.0	0.0
123.00		20.4	48.2					0.0	9.7	20.4	57.9	0.0	0.0
124.00		20.3	47.8					0.0	9.7	20.3	57.5	0.0	0.0
125.00		20.1	47.4					0.0	9.7	20.1	57.1	0.0	0.0
126.00		20.0	47.0					0.0	9.7	20.0	56.7	0.0	0.0
127.00		19.9	46.6					0.0	9.7	19.9	56.3	0.0	0.0
128.00		19.8	46.2					0.0	9.7	19.8	55.9	0.0	0.0
129.00		19.6	45.8					0.0	9.7	19.6	55.5	0.0	0.0
130.00	Appertunance(s)	19.5	45.4	1,674.3	0.0	1,110.8	2,682.3	0.0	9.7	1,693.8	2,737.4	0.0	0.0
131.00		19.4	45.0					0.0	6.0	19.4	51.0	0.0	0.0
132.00		19.2	44.6					0.0	6.0	19.2	50.6	0.0	0.0
133.00		19.1	44.2					0.0	6.0	19.1	50.2	0.0	0.0
134.00		19.0	43.8					0.0	6.0	19.0	49.8	0.0	0.0
135.00		18.8	43.4					0.0	6.0	18.8	49.4	0.0	0.0
136.00		18.7	43.0					0.0	6.0	18.7	49.0	0.0	0.0
137.00		18.6	42.6					0.0	6.0	18.6	48.6	0.0	0.0
138.00	Appertunance(s)	18.4	42.1	1,047.6	0.0	194.6	2,045.0	0.0	6.0	1,066.0	2,093.2	0.0	0.0
139.00		18.3	41.7					0.0	0.6	18.3	42.4	0.0	0.0
140.00	Appertunance(s)	9.1	41.3	22.8	0.0	109.3	11.5	0.0	0.6	31.9	53.5	0.0	0.0
									Totals:	9,869.76	38,799.4	0.00	0.00

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

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Customer: AT&T MOBILITY

Load Case: Twist/Sway

50.00 mph Wind with No Ice

28 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Shaft Forces and Deflections

Seg Elev (ft)	Lateral FX (-) (kips)	Axial FY (-) (kips)	Lateral FZ (kips)	Moment MX (ft-kips)	Torsion MY (ft-kips)	Moment MZ (ft-kips)	X Deflect (in)	Z Deflect (in)	Total Deflect (in)	Rotation (deg)
0.00	-9.858	-38.798	0.000	0.000	0.000	-1,003.031	0.000	0.000	0.000	0.000
1.00	-9.840	-38.544	0.000	0.000	0.000	-993.173	-0.002	0.000	0.002	-0.014
2.00	-9.822	-38.292	0.000	0.000	0.000	-983.334	-0.006	0.000	0.006	-0.028
3.00	-9.804	-38.040	0.000	0.000	0.000	-973.513	-0.014	0.000	0.014	-0.042
4.00	-9.786	-37.790	0.000	0.000	0.000	-963.709	-0.024	0.000	0.024	-0.056
5.00	-9.767	-37.541	0.000	0.000	0.000	-953.924	-0.037	0.000	0.037	-0.070
6.00	-9.749	-37.248	0.000	0.000	0.000	-944.157	-0.054	0.000	0.054	-0.084
7.00	-9.731	-36.956	0.000	0.000	0.000	-934.407	-0.073	0.000	0.073	-0.099
8.00	-9.713	-36.666	0.000	0.000	0.000	-924.676	-0.095	0.000	0.095	-0.113
9.00	-9.695	-36.376	0.000	0.000	0.000	-914.963	-0.120	0.000	0.120	-0.127
10.00	-9.677	-36.088	0.000	0.000	0.000	-905.268	-0.149	0.000	0.149	-0.142
11.00	-9.659	-35.801	0.000	0.000	0.000	-895.591	-0.180	0.000	0.180	-0.156
12.00	-9.641	-35.514	0.000	0.000	0.000	-885.932	-0.214	0.000	0.214	-0.170
13.00	-9.623	-35.229	0.000	0.000	0.000	-876.291	-0.251	0.000	0.251	-0.185
14.00	-9.605	-34.945	0.000	0.000	0.000	-866.669	-0.292	0.000	0.292	-0.199
15.00	-9.587	-34.662	0.000	0.000	0.000	-857.064	-0.335	0.000	0.335	-0.214
16.00	-9.569	-34.380	0.000	0.000	0.000	-847.477	-0.382	0.000	0.382	-0.228
17.00	-9.551	-34.099	0.000	0.000	0.000	-837.909	-0.431	0.000	0.431	-0.243
18.00	-9.533	-33.820	0.000	0.000	0.000	-828.358	-0.484	0.000	0.484	-0.258
19.00	-9.515	-33.541	0.000	0.000	0.000	-818.826	-0.539	0.000	0.539	-0.272
20.00	-9.496	-33.263	0.000	0.000	0.000	-809.312	-0.598	0.000	0.598	-0.287
21.00	-9.478	-32.987	0.000	0.000	0.000	-799.815	-0.660	0.000	0.660	-0.302
22.00	-9.460	-32.712	0.000	0.000	0.000	-790.337	-0.724	0.000	0.724	-0.316
23.00	-9.442	-32.437	0.000	0.000	0.000	-780.877	-0.792	0.000	0.792	-0.331
24.00	-9.424	-32.164	0.000	0.000	0.000	-771.435	-0.863	0.000	0.863	-0.346
25.00	-9.406	-31.892	0.000	0.000	0.000	-762.011	-0.938	0.000	0.938	-0.361
26.00	-9.388	-31.621	0.000	0.000	0.000	-752.605	-1.015	0.000	1.015	-0.376
27.00	-9.370	-31.351	0.000	0.000	0.000	-743.217	-1.095	0.000	1.095	-0.391
28.00	-9.352	-31.082	0.000	0.000	0.000	-733.847	-1.179	0.000	1.179	-0.406
29.00	-9.334	-30.814	0.000	0.000	0.000	-724.495	-1.266	0.000	1.266	-0.421
30.00	-9.316	-30.548	0.000	0.000	0.000	-715.162	-1.355	0.000	1.355	-0.436
31.00	-9.298	-30.282	0.000	0.000	0.000	-705.846	-1.448	0.000	1.448	-0.451
32.00	-9.280	-30.018	0.000	0.000	0.000	-696.548	-1.544	0.000	1.544	-0.466
33.00	-9.262	-29.754	0.000	0.000	0.000	-687.269	-1.644	0.000	1.644	-0.481
34.00	-9.243	-29.492	0.000	0.000	0.000	-678.008	-1.746	0.000	1.746	-0.496
35.00	-9.225	-29.231	0.000	0.000	0.000	-668.764	-1.852	0.000	1.852	-0.511
36.00	-9.206	-28.970	0.000	0.000	0.000	-659.540	-1.960	0.000	1.960	-0.526
37.00	-9.187	-28.711	0.000	0.000	0.000	-650.334	-2.072	0.000	2.072	-0.541
38.00	-9.168	-28.453	0.000	0.000	0.000	-641.146	-2.187	0.000	2.187	-0.557
39.00	-9.149	-28.196	0.000	0.000	0.000	-631.978	-2.306	0.000	2.306	-0.572
40.00	-9.130	-27.941	0.000	0.000	0.000	-622.829	-2.427	0.000	2.427	-0.587
41.00	-9.110	-27.686	0.000	0.000	0.000	-613.700	-2.552	0.000	2.552	-0.602
42.00	-9.091	-27.432	0.000	0.000	0.000	-604.590	-2.680	0.000	2.680	-0.617
43.00	-9.071	-27.180	0.000	0.000	0.000	-595.499	-2.811	0.000	2.811	-0.633
44.00	-9.051	-26.928	0.000	0.000	0.000	-586.429	-2.945	0.000	2.945	-0.648
45.00	-9.031	-26.678	0.000	0.000	0.000	-577.378	-3.082	0.000	3.082	-0.663
46.00	-9.017	-26.430	0.000	0.000	0.000	-568.347	-3.223	0.000	3.223	-0.678
46.25	-9.007	-26.367	0.000	0.000	0.000	-566.093	-3.259	0.000	3.259	-0.682
47.00	-8.987	-26.026	0.000	0.000	0.000	-559.338	-3.367	0.000	3.367	-0.694
48.00	-8.963	-25.573	0.000	0.000	0.000	-550.351	-3.514	0.000	3.514	-0.709
49.00	-8.939	-25.122	0.000	0.000	0.000	-541.388	-3.664	0.000	3.664	-0.724

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:48:08 PM

Customer: AT&T MOBILITY

Load Case: Twist/Sway

50.00 mph Wind with No Ice

28 Iterations

Gust Response Factor : 1.69
Dead Load Factor : 1.00
Wind Load Factor : 1.00

50.00	-8.915	-24.673	0.000	0.000	0.000	-532.448	-3.817	0.000	3.817	-0.740
51.00	-8.891	-24.227	0.000	0.000	0.000	-523.534	-3.974	0.000	3.974	-0.755
52.00	-8.868	-23.979	0.000	0.000	0.000	-514.643	-4.134	0.000	4.134	-0.770
53.00	-8.846	-23.732	0.000	0.000	0.000	-505.775	-4.297	0.000	4.297	-0.784
54.00	-8.823	-23.486	0.000	0.000	0.000	-496.930	-4.463	0.000	4.463	-0.798
55.00	-8.800	-23.242	0.000	0.000	0.000	-488.107	-4.631	0.000	4.631	-0.812
56.00	-8.777	-22.998	0.000	0.000	0.000	-479.307	-4.803	0.000	4.803	-0.826
57.00	-8.754	-22.756	0.000	0.000	0.000	-470.530	-4.977	0.000	4.977	-0.840
58.00	-8.731	-22.515	0.000	0.000	0.000	-461.777	-5.155	0.000	5.155	-0.854
59.00	-8.707	-22.274	0.000	0.000	0.000	-453.046	-5.335	0.000	5.335	-0.868
60.00	-8.684	-22.035	0.000	0.000	0.000	-444.339	-5.519	0.000	5.519	-0.882
61.00	-8.660	-21.797	0.000	0.000	0.000	-435.655	-5.705	0.000	5.705	-0.895
62.00	-8.637	-21.560	0.000	0.000	0.000	-426.995	-5.894	0.000	5.894	-0.909
63.00	-8.613	-21.325	0.000	0.000	0.000	-418.359	-6.086	0.000	6.086	-0.923
64.00	-8.589	-21.090	0.000	0.000	0.000	-409.746	-6.281	0.000	6.281	-0.937
65.00	-8.566	-20.856	0.000	0.000	0.000	-401.156	-6.478	0.000	6.478	-0.950
66.00	-8.542	-20.624	0.000	0.000	0.000	-392.591	-6.679	0.000	6.679	-0.964
67.00	-8.518	-20.392	0.000	0.000	0.000	-384.049	-6.882	0.000	6.882	-0.977
68.00	-8.494	-20.162	0.000	0.000	0.000	-375.532	-7.089	0.000	7.089	-0.991
69.00	-8.470	-19.933	0.000	0.000	0.000	-367.038	-7.298	0.000	7.298	-1.004
70.00	-8.445	-19.705	0.000	0.000	0.000	-358.569	-7.509	0.000	7.509	-1.017
71.00	-8.421	-19.478	0.000	0.000	0.000	-350.124	-7.724	0.000	7.724	-1.031
72.00	-8.397	-19.252	0.000	0.000	0.000	-341.703	-7.941	0.000	7.941	-1.044
73.00	-8.372	-19.027	0.000	0.000	0.000	-333.307	-8.161	0.000	8.161	-1.057
74.00	-8.348	-18.803	0.000	0.000	0.000	-324.935	-8.384	0.000	8.384	-1.070
75.00	-8.323	-18.581	0.000	0.000	0.000	-316.587	-8.610	0.000	8.610	-1.083
76.00	-8.299	-18.359	0.000	0.000	0.000	-308.264	-8.838	0.000	8.838	-1.095
77.00	-8.274	-18.139	0.000	0.000	0.000	-299.965	-9.069	0.000	9.069	-1.108
78.00	-8.249	-17.919	0.000	0.000	0.000	-291.691	-9.302	0.000	9.302	-1.121
79.00	-8.225	-17.701	0.000	0.000	0.000	-283.442	-9.538	0.000	9.538	-1.133
80.00	-8.200	-17.484	0.000	0.000	0.000	-275.218	-9.777	0.000	9.777	-1.145
81.00	-8.175	-17.268	0.000	0.000	0.000	-267.018	-10.018	0.000	10.018	-1.157
82.00	-8.150	-17.053	0.000	0.000	0.000	-258.843	-10.262	0.000	10.262	-1.169
83.00	-8.125	-16.840	0.000	0.000	0.000	-250.693	-10.508	0.000	10.508	-1.181
84.00	-8.100	-16.627	0.000	0.000	0.000	-242.568	-10.757	0.000	10.757	-1.193
85.00	-8.075	-16.416	0.000	0.000	0.000	-234.467	-11.008	0.000	11.008	-1.205
86.00	-8.050	-16.205	0.000	0.000	0.000	-226.392	-11.262	0.000	11.262	-1.216
87.00	-7.993	-13.944	0.000	0.000	0.000	-218.342	-11.518	0.000	11.518	-1.227
88.00	-7.967	-13.747	0.000	0.000	0.000	-211.249	-11.776	0.000	11.776	-1.238
89.00	-7.942	-13.551	0.000	0.000	0.000	-204.182	-12.037	0.000	12.037	-1.249
90.00	-7.917	-13.356	0.000	0.000	0.000	-197.140	-12.300	0.000	12.300	-1.260
91.00	-6.992	-13.162	0.000	0.000	0.000	-190.123	-12.565	0.000	12.565	-1.270
92.00	-6.966	-12.970	0.000	0.000	0.000	-183.132	-12.832	0.000	12.832	-1.281
93.00	-6.946	-12.778	0.000	0.000	0.000	-176.165	-13.101	0.000	13.101	-1.291
93.50	-6.934	-12.683	0.000	0.000	0.000	-172.692	-13.237	0.000	13.237	-1.296
94.00	-6.915	-12.557	0.000	0.000	0.000	-169.225	-13.373	0.000	13.373	-1.301
95.00	-6.888	-12.309	0.000	0.000	0.000	-162.310	-13.647	0.000	13.647	-1.311
96.00	-6.861	-12.061	0.000	0.000	0.000	-155.422	-13.922	0.000	13.922	-1.320
97.00	-6.842	-11.816	0.000	0.000	0.000	-148.561	-14.200	0.000	14.200	-1.330
97.25	-6.830	-11.754	0.000	0.000	0.000	-146.851	-14.270	0.000	14.270	-1.332
98.00	-6.812	-11.684	0.000	0.000	0.000	-141.728	-14.479	0.000	14.479	-1.339
99.00	-6.791	-11.590	0.000	0.000	0.000	-134.917	-14.763	0.000	14.763	-1.361
100.0	-5.134	-8.969	0.000	0.000	0.000	-128.126	-15.050	0.000	15.050	-1.383
101.0	-5.112	-8.889	0.000	0.000	0.000	-122.993	-15.342	0.000	15.342	-1.404
102.0	-5.091	-8.809	0.000	0.000	0.000	-117.881	-15.639	0.000	15.639	-1.424
103.0	-5.069	-8.730	0.000	0.000	0.000	-112.791	-15.939	0.000	15.939	-1.444
104.0	-5.047	-8.651	0.000	0.000	0.000	-107.722	-16.244	0.000	16.244	-1.464

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

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Customer: AT&T MOBILITY

Load Case: Twist/Sway

50.00 mph Wind with No Ice

28 Iterations

Gust Response Factor : 1.69
Dead Load Factor : 1.00
Wind Load Factor : 1.00

105.0	-5.026	-8.573	0.000	0.000	0.000	-102.674	-16.553	0.000	16.553	-1.483
106.0	-5.004	-8.495	0.000	0.000	0.000	-97.649	-16.865	0.000	16.865	-1.501
107.0	-4.983	-8.417	0.000	0.000	0.000	-92.644	-17.182	0.000	17.182	-1.520
108.0	-4.961	-8.340	0.000	0.000	0.000	-87.662	-17.502	0.000	17.502	-1.537
109.0	-4.940	-8.264	0.000	0.000	0.000	-82.701	-17.826	0.000	17.826	-1.554
110.0	-3.522	-6.318	0.000	0.000	0.000	-77.761	-18.154	0.000	18.154	-1.570
111.0	-3.500	-6.254	0.000	0.000	0.000	-74.239	-18.484	0.000	18.484	-1.586
112.0	-3.479	-6.191	0.000	0.000	0.000	-70.739	-18.818	0.000	18.818	-1.601
113.0	-3.457	-6.128	0.000	0.000	0.000	-67.260	-19.155	0.000	19.155	-1.616
114.0	-3.435	-6.065	0.000	0.000	0.000	-63.803	-19.496	0.000	19.496	-1.631
115.0	-3.414	-6.003	0.000	0.000	0.000	-60.368	-19.839	0.000	19.839	-1.645
116.0	-3.392	-5.942	0.000	0.000	0.000	-56.954	-20.185	0.000	20.185	-1.659
117.0	-3.371	-5.880	0.000	0.000	0.000	-53.562	-20.534	0.000	20.534	-1.672
118.0	-3.338	-5.812	0.000	0.000	0.000	-50.192	-20.886	0.000	20.886	-1.685
119.0	-3.316	-5.752	0.000	0.000	0.000	-46.854	-21.240	0.000	21.240	-1.697
120.0	-3.295	-5.693	0.000	0.000	0.000	-43.538	-21.597	0.000	21.597	-1.708
121.0	-3.274	-5.634	0.000	0.000	0.000	-40.243	-21.956	0.000	21.956	-1.720
122.0	-3.252	-5.576	0.000	0.000	0.000	-36.970	-22.317	0.000	22.317	-1.730
123.0	-3.231	-5.518	0.000	0.000	0.000	-33.718	-22.681	0.000	22.681	-1.740
124.0	-3.210	-5.461	0.000	0.000	0.000	-30.487	-23.046	0.000	23.046	-1.749
125.0	-3.189	-5.404	0.000	0.000	0.000	-27.277	-23.413	0.000	23.413	-1.757
126.0	-3.168	-5.347	0.000	0.000	0.000	-24.088	-23.782	0.000	23.782	-1.765
127.0	-3.147	-5.291	0.000	0.000	0.000	-20.920	-24.153	0.000	24.153	-1.772
128.0	-3.126	-5.236	0.000	0.000	0.000	-17.774	-24.525	0.000	24.525	-1.778
129.0	-3.105	-5.181	0.000	0.000	0.000	-14.648	-24.898	0.000	24.898	-1.783
130.0	-1.327	-2.497	0.000	0.000	0.000	-10.432	-25.272	0.000	25.272	-1.787
131.0	-1.306	-2.447	0.000	0.000	0.000	-9.105	-25.646	0.000	25.646	-1.791
132.0	-1.286	-2.397	0.000	0.000	0.000	-7.799	-26.022	0.000	26.022	-1.794
133.0	-1.265	-2.347	0.000	0.000	0.000	-6.513	-26.398	0.000	26.398	-1.796
134.0	-1.245	-2.298	0.000	0.000	0.000	-5.248	-26.774	0.000	26.774	-1.798
135.0	-1.224	-2.249	0.000	0.000	0.000	-4.003	-27.151	0.000	27.151	-1.800
136.0	-1.204	-2.201	0.000	0.000	0.000	-2.779	-27.528	0.000	27.528	-1.802
137.0	-1.184	-2.153	0.000	0.000	0.000	-1.575	-27.906	0.000	27.906	-1.802
138.0	-0.053	-0.094	0.000	0.000	0.000	-0.196	-28.283	0.000	28.283	-1.803
139.0	-0.033	-0.052	0.000	0.000	0.000	-0.143	-28.661	0.000	28.661	-1.803
140.0	-0.032	0.000	0.000	0.000	0.000	-0.109	-29.039	0.000	29.039	-1.803

Site Number: 310968

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

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Customer: AT&T MOBILITY

Load Case: Twist/Sway

50.00 mph Wind with No Ice

28 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Combined (ksi)	Allowable Stress (Fb) (ksi)	Allowable Stress (Fa) (ksi)	Stress Ratio
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)					
0.00	0.52	0.27	0.00	0.00	0.00	14.17	14.70	52.0	0.0	0.283	
1.00	0.52	0.27	0.00	0.00	0.00	14.15	14.68	52.0	0.0	0.282	
2.00	0.52	0.27	0.00	0.00	0.00	14.13	14.66	52.0	0.0	0.282	
3.00	0.52	0.27	0.00	0.00	0.00	14.11	14.64	52.0	0.0	0.282	
4.00	0.52	0.27	0.00	0.00	0.00	14.09	14.62	52.0	0.0	0.281	
5.00	0.52	0.27	0.00	0.00	0.00	14.07	14.60	52.0	0.0	0.281	
6.00	0.52	0.27	0.00	0.00	0.00	14.05	14.58	52.0	0.0	0.280	
7.00	0.51	0.27	0.00	0.00	0.00	14.03	14.56	52.0	0.0	0.280	
8.00	0.51	0.27	0.00	0.00	0.00	14.01	14.53	52.0	0.0	0.280	
9.00	0.51	0.27	0.00	0.00	0.00	13.99	14.51	52.0	0.0	0.279	
10.00	0.51	0.28	0.00	0.00	0.00	13.97	14.48	52.0	0.0	0.279	
11.00	0.51	0.28	0.00	0.00	0.00	13.94	14.46	52.0	0.0	0.278	
12.00	0.51	0.28	0.00	0.00	0.00	13.92	14.43	52.0	0.0	0.278	
13.00	0.50	0.28	0.00	0.00	0.00	13.89	14.40	52.0	0.0	0.277	
14.00	0.50	0.28	0.00	0.00	0.00	13.87	14.38	52.0	0.0	0.277	
15.00	0.50	0.28	0.00	0.00	0.00	13.84	14.35	52.0	0.0	0.276	
16.00	0.50	0.28	0.00	0.00	0.00	13.81	14.32	52.0	0.0	0.275	
17.00	0.50	0.28	0.00	0.00	0.00	13.78	14.29	52.0	0.0	0.275	
18.00	0.50	0.28	0.00	0.00	0.00	13.75	14.26	52.0	0.0	0.274	
19.00	0.49	0.28	0.00	0.00	0.00	13.72	14.22	52.0	0.0	0.274	
20.00	0.49	0.28	0.00	0.00	0.00	13.69	14.19	52.0	0.0	0.273	
21.00	0.49	0.28	0.00	0.00	0.00	13.66	14.16	52.0	0.0	0.272	
22.00	0.49	0.28	0.00	0.00	0.00	13.63	14.12	52.0	0.0	0.272	
23.00	0.49	0.29	0.00	0.00	0.00	13.59	14.09	52.0	0.0	0.271	
24.00	0.48	0.29	0.00	0.00	0.00	13.56	14.05	52.0	0.0	0.270	
25.00	0.48	0.29	0.00	0.00	0.00	13.52	14.01	52.0	0.0	0.270	
26.00	0.48	0.29	0.00	0.00	0.00	13.49	13.97	52.0	0.0	0.269	
27.00	0.48	0.29	0.00	0.00	0.00	13.45	13.94	52.0	0.0	0.268	
28.00	0.48	0.29	0.00	0.00	0.00	13.41	13.89	52.0	0.0	0.267	
29.00	0.48	0.29	0.00	0.00	0.00	13.37	13.85	52.0	0.0	0.267	
30.00	0.47	0.29	0.00	0.00	0.00	13.33	13.81	52.0	0.0	0.266	
31.00	0.47	0.29	0.00	0.00	0.00	13.28	13.77	52.0	0.0	0.265	
32.00	0.47	0.29	0.00	0.00	0.00	13.24	13.72	52.0	0.0	0.264	
33.00	0.47	0.29	0.00	0.00	0.00	13.20	13.67	52.0	0.0	0.263	
34.00	0.47	0.29	0.00	0.00	0.00	13.15	13.63	52.0	0.0	0.262	
35.00	0.46	0.30	0.00	0.00	0.00	13.10	13.58	52.0	0.0	0.261	
36.00	0.46	0.30	0.00	0.00	0.00	13.05	13.53	52.0	0.0	0.260	
37.00	0.46	0.30	0.00	0.00	0.00	13.01	13.48	52.0	0.0	0.259	
38.00	0.46	0.30	0.00	0.00	0.00	12.95	13.42	52.0	0.0	0.258	
39.00	0.46	0.30	0.00	0.00	0.00	12.90	13.37	52.0	0.0	0.257	
40.00	0.46	0.30	0.00	0.00	0.00	12.85	13.31	52.0	0.0	0.256	
41.00	0.45	0.30	0.00	0.00	0.00	12.79	13.26	52.0	0.0	0.255	
42.00	0.45	0.30	0.00	0.00	0.00	12.74	13.20	52.0	0.0	0.254	
43.00	0.45	0.30	0.00	0.00	0.00	12.68	13.14	52.0	0.0	0.253	
44.00	0.45	0.30	0.00	0.00	0.00	12.62	13.08	52.0	0.0	0.252	
45.00	0.45	0.30	0.00	0.00	0.00	12.56	13.01	52.0	0.0	0.250	
46.00	0.44	0.31	0.00	0.00	0.00	12.49	12.95	52.0	0.0	0.249	
46.25	0.44	0.31	0.00	0.00	0.00	12.48	12.93	52.0	0.0	0.249	
47.00	0.44	0.31	0.00	0.00	0.00	12.43	12.88	52.0	0.0	0.248	
48.00	0.44	0.31	0.00	0.00	0.00	12.36	12.81	52.0	0.0	0.246	
49.00	0.43	0.31	0.00	0.00	0.00	12.29	12.73	52.0	0.0	0.245	

Site Number: 310968

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Customer: AT&T MOBILITY

Load Case: Twist/Sway

50.00 mph Wind with No Ice

28 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

50.00	0.42	0.31	0.00	0.00	0.00	12.22	12.66	52.0	0.0	0.244
51.00	0.41	0.30	0.00	0.00	0.00	11.51	11.93	52.0	0.0	0.229
52.00	0.41	0.30	0.00	0.00	0.00	11.44	11.85	52.0	0.0	0.228
53.00	0.40	0.30	0.00	0.00	0.00	11.36	11.78	52.0	0.0	0.227
54.00	0.40	0.30	0.00	0.00	0.00	11.28	11.70	52.0	0.0	0.225
55.00	0.40	0.31	0.00	0.00	0.00	11.21	11.62	52.0	0.0	0.224
56.00	0.40	0.31	0.00	0.00	0.00	11.13	11.54	52.0	0.0	0.222
57.00	0.40	0.31	0.00	0.00	0.00	11.04	11.45	52.0	0.0	0.220
58.00	0.39	0.31	0.00	0.00	0.00	10.96	11.37	52.0	0.0	0.219
59.00	0.39	0.31	0.00	0.00	0.00	10.87	11.28	52.0	0.0	0.217
60.00	0.39	0.31	0.00	0.00	0.00	10.79	11.19	52.0	0.0	0.215
61.00	0.39	0.31	0.00	0.00	0.00	10.70	11.10	52.0	0.0	0.213
62.00	0.39	0.31	0.00	0.00	0.00	10.60	11.00	52.0	0.0	0.212
63.00	0.38	0.31	0.00	0.00	0.00	10.51	10.91	52.0	0.0	0.210
64.00	0.38	0.31	0.00	0.00	0.00	10.41	10.81	52.0	0.0	0.208
65.00	0.38	0.31	0.00	0.00	0.00	10.31	10.71	52.0	0.0	0.206
66.00	0.38	0.32	0.00	0.00	0.00	10.21	10.60	52.0	0.0	0.204
67.00	0.38	0.32	0.00	0.00	0.00	10.11	10.50	52.0	0.0	0.202
68.00	0.37	0.32	0.00	0.00	0.00	10.00	10.39	52.0	0.0	0.200
69.00	0.37	0.32	0.00	0.00	0.00	9.89	10.28	52.0	0.0	0.198
70.00	0.37	0.32	0.00	0.00	0.00	9.78	10.16	52.0	0.0	0.196
71.00	0.37	0.32	0.00	0.00	0.00	9.66	10.05	52.0	0.0	0.193
72.00	0.37	0.32	0.00	0.00	0.00	9.55	9.93	52.0	0.0	0.191
73.00	0.36	0.32	0.00	0.00	0.00	9.43	9.80	52.0	0.0	0.189
74.00	0.36	0.32	0.00	0.00	0.00	9.30	9.68	52.0	0.0	0.186
75.00	0.36	0.32	0.00	0.00	0.00	9.18	9.55	52.0	0.0	0.184
76.00	0.36	0.33	0.00	0.00	0.00	9.05	9.42	52.0	0.0	0.181
77.00	0.35	0.33	0.00	0.00	0.00	8.91	9.28	52.0	0.0	0.179
78.00	0.35	0.33	0.00	0.00	0.00	8.78	9.15	52.0	0.0	0.176
79.00	0.35	0.33	0.00	0.00	0.00	8.64	9.00	52.0	0.0	0.173
80.00	0.35	0.33	0.00	0.00	0.00	8.49	8.86	52.0	0.0	0.170
81.00	0.35	0.33	0.00	0.00	0.00	8.35	8.71	52.0	0.0	0.168
82.00	0.34	0.33	0.00	0.00	0.00	8.20	8.56	52.0	0.0	0.165
83.00	0.34	0.33	0.00	0.00	0.00	8.04	8.40	52.0	0.0	0.162
84.00	0.34	0.33	0.00	0.00	0.00	7.88	8.24	52.0	0.0	0.159
85.00	0.34	0.33	0.00	0.00	0.00	7.72	8.08	52.0	0.0	0.155
86.00	0.34	0.34	0.00	0.00	0.00	7.55	7.91	52.0	0.0	0.152
87.00	0.29	0.30	0.00	0.00	0.00	7.38	7.69	52.0	0.0	0.148
88.00	0.29	0.30	0.00	0.00	0.00	7.24	7.54	52.0	0.0	0.145
89.00	0.29	0.30	0.00	0.00	0.00	7.09	7.40	52.0	0.0	0.142
90.00	0.28	0.30	0.00	0.00	0.00	6.94	7.24	52.0	0.0	0.139
91.00	0.28	0.30	0.00	0.00	0.00	6.79	7.09	52.0	0.0	0.136
92.00	0.28	0.30	0.00	0.00	0.00	6.63	6.93	52.0	0.0	0.133
93.00	0.28	0.30	0.00	0.00	0.00	6.46	6.76	52.0	0.0	0.130
93.50	0.28	0.30	0.00	0.00	0.00	6.38	6.68	52.0	0.0	0.128
94.00	0.27	0.30	0.00	0.00	0.00	6.30	6.59	52.0	0.0	0.127
95.00	0.27	0.31	0.00	0.00	0.00	6.12	6.42	52.0	0.0	0.123
96.00	0.27	0.31	0.00	0.00	0.00	5.95	6.24	52.0	0.0	0.120
97.00	0.26	0.31	0.00	0.00	0.00	5.77	6.05	52.0	0.0	0.116
97.25	0.68	0.80	0.00	0.00	0.00	14.38	15.12	51.3	0.0	0.295
98.00	0.68	0.80	0.00	0.00	0.00	14.02	14.77	51.5	0.0	0.287
99.00	0.68	0.81	0.00	0.00	0.00	13.53	14.29	51.6	0.0	0.277
100.00	0.53	0.61	0.00	0.00	0.00	13.04	13.61	51.8	0.0	0.263
101.00	0.53	0.62	0.00	0.00	0.00	12.69	13.27	51.9	0.0	0.255
102.00	0.53	0.62	0.00	0.00	0.00	12.34	12.92	52.0	0.0	0.248
103.00	0.53	0.62	0.00	0.00	0.00	11.98	12.56	52.0	0.0	0.242
104.00	0.53	0.62	0.00	0.00	0.00	11.61	12.19	52.0	0.0	0.234

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:48:08 PM

Customer: AT&T MOBILITY

Load Case: Twist/Sway

50.00 mph Wind with No Ice

28 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

105.00	0.53	0.62	0.00	0.00	0.00	11.23	11.81	52.0	0.0	0.227
106.00	0.53	0.63	0.00	0.00	0.00	10.84	11.42	52.0	0.0	0.220
107.00	0.53	0.63	0.00	0.00	0.00	10.44	11.02	52.0	0.0	0.212
108.00	0.52	0.63	0.00	0.00	0.00	10.02	10.60	52.0	0.0	0.204
109.00	0.52	0.63	0.00	0.00	0.00	9.60	10.18	52.0	0.0	0.196
110.00	0.40	0.45	0.00	0.00	0.00	9.17	9.60	52.0	0.0	0.185
111.00	0.40	0.45	0.00	0.00	0.00	8.89	9.32	52.0	0.0	0.179
112.00	0.40	0.45	0.00	0.00	0.00	8.60	9.03	52.0	0.0	0.174
113.00	0.40	0.46	0.00	0.00	0.00	8.30	8.74	52.0	0.0	0.168
114.00	0.40	0.46	0.00	0.00	0.00	8.00	8.44	52.0	0.0	0.162
115.00	0.40	0.46	0.00	0.00	0.00	7.69	8.13	52.0	0.0	0.156
116.00	0.40	0.46	0.00	0.00	0.00	7.37	7.81	52.0	0.0	0.150
117.00	0.40	0.46	0.00	0.00	0.00	7.05	7.48	52.0	0.0	0.144
118.00	0.40	0.46	0.00	0.00	0.00	6.71	7.15	52.0	0.0	0.138
119.00	0.39	0.46	0.00	0.00	0.00	6.37	6.81	52.0	0.0	0.131
120.00	0.39	0.46	0.00	0.00	0.00	6.01	6.46	52.0	0.0	0.124
121.00	0.39	0.46	0.00	0.00	0.00	5.65	6.10	52.0	0.0	0.117
122.00	0.39	0.46	0.00	0.00	0.00	5.28	5.73	52.0	0.0	0.110
123.00	0.39	0.46	0.00	0.00	0.00	4.90	5.35	52.0	0.0	0.103
124.00	0.39	0.46	0.00	0.00	0.00	4.50	4.96	52.0	0.0	0.095
125.00	0.39	0.46	0.00	0.00	0.00	4.10	4.56	52.0	0.0	0.088
126.00	0.39	0.46	0.00	0.00	0.00	3.68	4.15	52.0	0.0	0.080
127.00	0.39	0.47	0.00	0.00	0.00	3.26	3.73	52.0	0.0	0.072
128.00	0.39	0.47	0.00	0.00	0.00	2.81	3.30	52.0	0.0	0.064
129.00	0.39	0.47	0.00	0.00	0.00	2.36	2.86	52.0	0.0	0.055
130.00	0.19	0.20	0.00	0.00	0.00	1.71	1.93	52.0	0.0	0.037
131.00	0.19	0.20	0.00	0.00	0.00	1.52	1.74	52.0	0.0	0.034
132.00	0.18	0.20	0.00	0.00	0.00	1.33	1.55	52.0	0.0	0.030
133.00	0.18	0.20	0.00	0.00	0.00	1.13	1.35	52.0	0.0	0.026
134.00	0.18	0.20	0.00	0.00	0.00	0.93	1.16	52.0	0.0	0.022
135.00	0.18	0.19	0.00	0.00	0.00	0.72	0.96	52.0	0.0	0.018
136.00	0.18	0.19	0.00	0.00	0.00	0.51	0.76	52.0	0.0	0.015
137.00	0.17	0.19	0.00	0.00	0.00	0.29	0.57	52.0	0.0	0.011
138.00	0.01	0.01	0.00	0.00	0.00	0.04	0.05	52.0	0.0	0.001
139.00	0.00	0.01	0.00	0.00	0.00	0.03	0.03	52.0	0.0	0.001
140.00	0.00	0.01	0.00	0.00	0.00	0.02	0.02	52.0	0.0	0.000

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT

Engineering Number: 64474921

11/23/2015 2:48:08 PM

Customer: AT&T MOBILITY

Analysis Summary

Load Case	Reactions						Max Stresses			
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Combined Stress (ksi)	Allowable Stress (ksi)	Elev (ft)	Stress Ratio
No Ice	28.5	0.00	38.79	0.00	0.00	2896.74	42.25	51.3	97.25	0.823
Ice	22.9	0.00	45.58	0.00	0.00	2386.06	37.34	51.3	97.25	0.727
Twist/Sway	9.9	0.00	38.80	0.00	0.00	1003.03	15.12	51.3	97.25	0.295

Site Number: 310968

Code: TIA/EIA-222-F

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Site Name: WSPT-Westport Rebuild CT, CT Engineering Number: 64474921

11/23/2015 2:48:09 PM

Customer: AT&T MOBILITY

Base Summary

Reactions

Original Design			Analysis			Moment Design %
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	
2,753.00	37.00	27.30	2,896.74	45.58	28.50	105.22

Base Plate

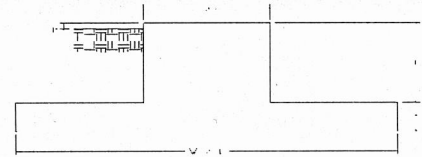
Yield (ksi)	Thick (in)	Width (in)	Style	Poly Sides	Clip Len (in)	Effective Len (in)	Moment (kip-in)	Allow Stress (ksi)	Applied Stress (ksi)	Stress Ratio
50.0	3.250	54.000	Clipped	0	12.00	9.349	327.14	50.00	19.88	0.40

Anchor Bolts

Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Cluster Arrange	Cluster Dist (in)	Start Angle (deg)	Compression			Tension		
									Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
54.00	16	2.25" 18J	2.25	75.00	100.00	Clustered	6.00	45.0	163.78	195.00	0.84	158.08	195.00	0.81

Site Name: WSPT - Westport Rebuild CT, Ct
 Site Number: 310968
 Engineering Number: 64474921
 Engineer: NSK
 Date: 11/06/15
 Tower Type: MP

Program Last Updated: 5/13/2014



Design Loads (Unfactored)

Design / Analysis / Mapping:	Analysis
Compression/Leg:	38.8 k
Uplift/Leg:	0.0 k
Total Shear:	28.5 k
Moment:	2896.7 k-ft
Tower + Appurtenance Weight:	38.8 k
Depth to Base of Foundation:	7.00 ft
Diameter of Pier (d):	6.00 ft
Height of Pier above Ground (h):	0.50
Width of Pad (W):	23.00 ft
Length of Pad (L):	23.00 ft
Thickness of Pad (t):	4.00 ft
Tower Leg Center to Center:	0.00 ft
Number of Tower Legs:	1.0 (1 if MP or GT)
Tower Center from Mat Center:	0.00 ft
Depth Below Ground Surface to Water Table:	99.00 ft
Unit Weight of Concrete:	150.0 pcf
Unit Weight of Soil Above Water Table:	100.0 pcf
Unit Weight of Water:	62.4 pcf
Unit Weight of Soil Below Water Table:	50.0 pcf
Friction Angle of Uplift:	0.00 Degrees
Ultimate Coefficient of Shear Friction:	0.35
Allowable Compressive Bearing Pressure:	10000.0 psf
Ultimate Passive Pressure on Pad Face:	0.0 psf
Allowable Capacity Increase:	1.00

Concrete Strength (f'_c):	3000 psi
Pad Tension Steel Depth:	44.00 in
Wind Load Factor:	1.3
ϕ_{Shear} :	0.75
$\phi_{\text{Flexure / Tension}}$:	0.90
$\phi_{\text{Compression}}$:	0.65
β :	0.85
Bottom Pad Rebar Size #:	9
# of Bottom Pad Rebar:	11
Pad Bottom Steel Area:	11.00 in ²
Pad Steel F_y :	60000 psi
Top Pad Rebar Size #:	9
# of Top Pad Rebar:	11
Pad Top Steel Area:	11.00 in ²
Pier Rebar Size #:	11
Pier Steel Area (Single Bar):	1.56 in ²
# of Pier Rebar:	40
Pier Steel F_y :	60000 psi
Pier Cage Diameter:	64.0 in
Rebar Strain Limit:	0.008
Steel Elastic Modulus:	29000 ksi
Tie Rebar Size #:	4
Tie Steel Area (Single Bar):	0.20 in ²
Tie Spacing:	12 in
Tie Steel F_y :	60000 psi

Overturning Factor of Safety

Design OTM:	3110.5 k-ft
OTM Resistance:	5994.5 k-ft
OTM Resistance / Design OTM Factor of Safety:	1.93 Result: OK

Soil Bearing Pressure Usage:

Net Bearing Pressure:	2857 psf
Allowable Bearing Pressure:	10000 psf
Net Bearing Pressure/Allowable Bearing Pressure:	0.29 Result: OK
Load Direction Controlling Design Bearing Pressure:	Diagonal to Pad Edge

Sliding Factor of Safety

Total Ultimate Sliding Resistance:	182.4 k
Sliding Resistance/Sliding Design Factor of Safety:	6.40 Result: OK

One Way Shear, Flexural Capacity, and Punching Shear

Factored One Way Shear (V_u):	214.0 k
One Way Shear Capacity (ϕV_c):	832.6 k - ACI11.3.1.1
$V_u / \phi V_c$:	0.26 Result: OK
Load Direction Controlling Shear Capacity:	Diagonal to Pad Edge
Lower Pad Steel Factored Moment (M_u):	1658.1 k-ft
Lower Steel Pad Moment Capacity (ϕM_n):	2158.3 k-ft - ACI10.3
$M_u / \phi M_n$:	0.77 Result: OK
Load Direction Controlling Flexural Capacity:	Parallel to Pad Edge
Upper Steel Pad Factored Moment (M_u):	907.5 k-ft
Upper Steel Pad Moment Capacity (ϕM_n):	2158.3 k-ft
$M_u / \phi M_n$:	0.42 Result: OK
Upper Pad Flexural Reinforcement Ratio:	0.0009 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Factored Punching Shear (V_u):	0.0 k
Nominal Punching Shear Capacity ($\phi_c V_n$):	2634.8 k - ACI11.12.2.1
$V_u / \phi_c V_n$:	0.00 Result: OK
Factored Moment in Pier (M_u):	3895.4 k-ft
Pier Moment Capacity (ϕM_n):	8789.4 k-ft
$M_u / \phi M_n$:	0.44 Result: OK
Factored Shear in Pier (V_u):	37.1 k
Pier Shear Capacity (ϕV_n):	336.1 k
$V_u / \phi V_n$:	0.11 Result: OK
Pier Shear Reinforcement Ratio:	0.0005 No Ties Necessary for Shear - ACI11.5.6.1
Factored Tension in Pier (T_u):	0.0 k
Pier Tension Capacity (ϕT_n):	3369.6 k
$T_u / \phi T_n$:	0.00 Result: OK
Factored Compression in Pier (P_u):	50.4 k
Pier Compression Capacity (ϕP_n):	5316.1 k - ACI10.3.6.2
$P_u / \phi P_n$:	0.01 Result: OK
Pier Compression Reinforcement Ratio:	0.015 OK - Reinforcement Ratio Met - ACI10.9.1 & 10.8.4
$M_u / \phi_B M_n + T_u / \phi_T T_n$:	0.44 Result: OK

Nominal and Design Moment Capacity and Factored Design Loads

