



QC Development

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April 26, 2019

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

Notice of Exempt Modification – New Cingular Wireless PCS, LLC (AT&T) – CT2103
20 Post Office Lane, Westport, CT 06880
N 41.12346944
W 73.31306111

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 131-foot level of the existing 142-foot Monopole at 20 Post Office Lane, Westport, CT. The tower is owned by American Tower and the property is owned by Jay Sherwood. AT&T now intends to remove three (3) CCI antennas and replace them with three (3) Kathrien 800-10965 antennas. AT&T will also swap (3) Ericsson RRUS-11 for (3) B5/B12-4449 and (3) RRUS-32 B2 for (3) B2/B66-8843 Remote Radio Units (RRU). The new antennas and RRUs will also be installed at the 131-foot level of the tower.

This facility was approved by the Connecticut Siting Council, Docket No. 166 on August 29, 1995 as modified by approval of Petition 394 on August 25th, 1998 and again by Petition 600 on January 8th, 2003. No modification to the overall facility height is proposed, so this modification therefore complies with the aforementioned approvals.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Honorable Jim Marpe, First Selectman for the Town of Westport and the Westport Planning &

Zoning Department as well as the property owner and the tower owner.

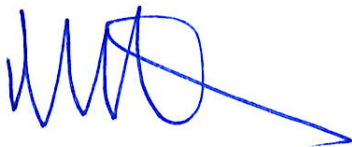
The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

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

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

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

Sincerely,



Mark Roberts
QC Development
Consultant for AT&T

Attachments

cc: Honorable Jim Marpe- Elected Official
Mary Young – Planning & Zoning Director
Jay Sherwood - Property Owner
American Tower - Tower Owner (via e-mail)

Power Density

Existing Loading on Tower

Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm ²)	Freq. Band (MHz ^{**})	Limit S (mW/cm ²)	%MPE
Other Carriers*							14.93%
AT&T GSM	2	414	131	0.0191	850	0.5667	0.34%
AT&T UMTS	2	414	131	0.0191	850	0.5667	0.34%
AT&T UMTS	2	656	131	0.0302	1900	1.0000	0.30%
AT&T LTE	2	940	131	0.0433	700	0.4667	0.93%
AT&T LTE	2	1791	131	0.0825	1900	1.0000	0.82%
Site Total							17.66%

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

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

Proposed Loading on Tower

Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm ²)	Freq. Band (MHz ^{**})	Limit S (mW/cm ²)	%MPE
Other Carriers*							14.93%
AT&T UMTS	1	263	120	0.0061	850	0.5867	0.11%
AT&T LTE	1	1476	120	0.0340	700	0.4667	0.73%
AT&T LTE	1	1000	120	0.0230	850	0.5667	0.41%
AT&T 5G	1	1000	120	0.0230	850	0.5667	0.41%
AT&T LTE	2	4842	120	0.2229	1900	1.0000	2.23%
AT&T LTE	1	5070	120	0.1167	2100	1.0000	1.17%
AT&T LTE	1	1285	120	0.0296	2300	1.0000	0.30%
Site Total							20.27%

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

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

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

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
 SITE ADDRESS: 19-20 POST OFFICE LANE WESTPORT, CT 06880
 LATITUDE: 41° 07' 24" N
 LONGITUDE: 73° 18' 47" W
 JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES
 CURRENT USE: TELECOMMUNICATIONS FACILITY
 PROPOSED USE: TELECOMMUNICATIONS FACILITY
 DESIGN GUIDELINE: LTE 4C, LTE 5C, RETROFIT
 S.O.W. NOTES: ARRANGE ANTENNA AND RADIO POSITIONS PER PLUMBING DIAGRAM.
 -REPLACE EXISTING HEX-PORT ANTENNA WITH OCTO-PORT ANTENNA
 -REPLACE EXISTING 700 BC RADIO WITH DUAL BAND RADIO SHARED WITH LTE 850
 -SWAP LTE PCS WITH DUAL BAND RADIO SHARED WITH LTE AWS
 -ADD (1) DC SQUID ONLY
 -ADD 2ND XMU AND ADD 6630 FOR 5G IN BTS CABINET
 -REMOVE EXISTING POWER PLANT BATTERY RACK AND STANDALONE CONVERTER SHELVES
 -INSTALL NETSURE 7100 POWER PLANT AND BATTERY RACK
 -RE-CABLE EXISTING EQUIPMENT TO PROPOSED POWER PLANT

SITE NUMBER: CT2103
SITE NAME: WESTPORT SOUTH

19-20 POST OFFICE LANE
 WESTPORT, CT 06880
 FAIRFIELD COUNTY

PROJECT: LTE 4C/5C & RETROFIT
 FA SITE NUMBER: 10035073

PACE ID: MRCTB033589/MRCTB033686/MRCTB033642
 STRUCTURE TYPE: MONOPOLE

DRAWING INDEX

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LOCUS MAP



DRIVING DIRECTIONS FROM 550 COCHITUATE ROAD, FRAMINGHAM, MA:
 1. HEAD NORTHEAST TOWARD LEGGATT MCCALL CONN, TURN LEFT ONTO LEGGATT MCCALL CONN
 2. CONTINUE ONTO BURR ST
 3. TURN LEFT ONTO COCHITUATE RD
 4. USE THE RIGHT LANE TO TAKE THE RAMP TO I-90 E/MASSPIKE W/SPRINGFIELD/BOSTON
 5. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR INTERSTATE 90 W/MASSACHUSETTS TURNPIKE/WORCESTER/SPRINGFIELD AND MERGE ONTO I-90 W/MASSACHUSETTS TURNPIKE
 6. MERGE ONTO I-90 W/MASSACHUSETTS TURNPIKE
 7. USE THE RIGHT 2 LANES TO TAKE EXIT 9 FOR I-84 TOWARD US-20/HARTFORD/NEW YORK CITY
 8. CONTINUE ONTO I-84
 9. USE THE LEFT 2 LANES TO TAKE EXIT 57 FOR CT-15 S TOWARD I-91 S/CHARTER OAK BRIDGE/N.Y.CITY
 10. CONTINUE ONTO CT-15 S
 11. CONTINUE ONTO CT-15 S/US-5 S
 12. TAKE EXIT 86 TO MERGE ONTO I-91 S TOWARD NEW HAVEN/NEW YORK CITY
 13. TAKE EXIT 17 TO MERGE ONTO CT-15 S/WILBUR CROSS PKWY
 14. CONTINUE TO FOLLOW CT-15 S
 15. TAKE EXIT 52 FOR STATE ROUTE 108 S/STATE ROUTE 8 S TOWARD BRIDGEPORT
 16. KEEP LEFT, FOLLOW SIGNS FOR CT-8 S/BRIDGEPORT AND MERGE ONTO CT-8 S
 17. TAKE THE INTERSTATE 95 S EXIT TOWARD N.Y. CITY, MERGE ONTO I-95 S
 18. TAKE EXIT 19 TOWARD US-1/S PORT
 19. CONTINUE ONTO PEASE AVE
 20. SLIGHT RIGHT AFTER 7-ELEVEN (ON THE RIGHT)
 21. TURN LEFT ONTO KINGS HWY W
 22. CONTINUE ONTO GREENS FARMS RD
 23. TURN LEFT ONTO NEW CREEK RD
 24. TURN LEFT ONTO POST OFFICE LN

GENERAL NOTES

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



CONNECTICUT



CALL BEFORE YOU DIG



CALL TOLL FREE: 800-922-4455

UNDERGROUND SERVICE ALERT



SITE NUMBER: CT2103
 SITE NAME: WESTPORT SOUTH
 19-20 POST OFFICE LANE
 WESTPORT, CT 06880
 FAIRFIELD COUNTY



550 COCHITUATE ROAD, SUITE 13,
 FRAMINGHAM, MA 01701-4681

NO.	DATE	REVISIONS	BY	CHK
0	03/28/19	ISSUED FOR REVIEW	AAB	MRC
1	04/22/19	ISSUED FOR CONSTRUCTION	AAB	MRC

TITLE SHEET

SHEET NO. T-1

GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.

2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.

3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE LESEE/LICENSEE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.

4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.

5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.

7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.

9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.

12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.

15. THE CONTRACTOR SHALL NOTIFY THE LESEE/LICENSEE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESEE/LICENSEE REPRESENTATIVE.

16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.

17. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY: DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG (CT): 1-800-922-4455

18. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS SHOWN HEREIN.

19. ALL DIMENSIONS SHOWN THUS ± ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECT THE CONTRACTORS WORK. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH PROJECT OWNER PRIOR TO CONSTRUCTION.

20. NORTH ARROW SHOWN ON PLANS REFERS TO APPROXIMATE TRUE NORTH. PRIOR TO THE START OF CONSTRUCTION, ORDERING OR FABRICATING OF ANTENNA MOUNTS, CONTRACTOR SHALL CONSULT WITH PROJECT OWNER'S RF ENGINEER AND FIELD VERIFY ALL ANTENNA SECTOR LOCATIONS AND ANTENNA AZIMUTHS.

21. THE CONTRACTOR AND OR HIS SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.

22. ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.

23. COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE PROVIDED BY THE PROJECT OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. A SCHEDULE OF PROJECT OWNER SUPPLIED MATERIALS IS ATTACHED TO THE BID DOCUMENTS (SEE EXHIBIT 3). ALL OTHER HARDWARE TO BE PROVIDED BY THE CONTRACTOR. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.

24. WHEN "PAINT TO MATCH" IS SPECIFIED FOR ANTENNA CONCEALMENT, PAINT PRODUCT FOR ANTENNA RADOME SHALL BE SHERWIN WILLIAMS COROTHANE II. SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND PROJECT OWNER'S GUIDELINE'S.

25. COORDINATION, LAYOUT, AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

26. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.

27. ALL (E)ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.

28. ALL (E)INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF UTILITY COMPANY ENGINEERING. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT, DRIVEWAY OR

29. GRAVEL, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED AND COVERED WITH MULCH UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES

30. DURING CONSTRUCTION. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS

31. FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.

32. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;

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

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

APPLICABLE BUILDING CODES:
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:

2012 INTERNATIONAL BUILDING CODE
2016 CT STATE BUILDING CODE
ELECTRICAL CODE: NEC 2014
NFPA 780 2014

ELECTRICAL AND GROUNDING NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.

2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.

3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.

4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.

5. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.

6. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.

7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THHN INSULATION.

8. RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.

9. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE AND GREENLEE CONDUIT MEASURING TAPE IN EACH INSTALLED TELCO CONDUIT.

10. WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.

11. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.

12. PPC SUPPLIED BY PROJECT OWNER.

13. GROUNDING SHALL COMPLY WITH NEC ART. 250.

14. GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.

15. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.

16. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.

17. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.

18. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.

19. BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALNA TO EGB PLACED NEAR THE ANTENNA LOCATION.

20. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.

21. CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/ (E) MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.

22. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MAXIMUM RESISTANCE REQUIRED.

23. CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.



ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MGB	MASTER GROUND BUS		
BCW	BARE COPPER WIRE	MIN	MINIMUM	TBD	TO BE DETERMINED
BTS	BASE TRANSCEIVER STATION	(P)	PROPOSED/NEW	TBR	TO BE REMOVED
(E)	EXISTING	N.T.S.	NOT TO SCALE	TBRR	TO BE REMOVED AND REPLACED
EG	EQUIPMENT GROUND	REF	REFERENCE	TYP	TYPICAL
EGR	EQUIPMENT GROUND RING	REQ	REQUIRED		
(F)	FUTURE				



SITE NUMBER: CT2103
SITE NAME: WESTPORT SOUTH
19-20 POST OFFICE LANE
WESTPORT, CT 06880
FAIRFIELD COUNTY

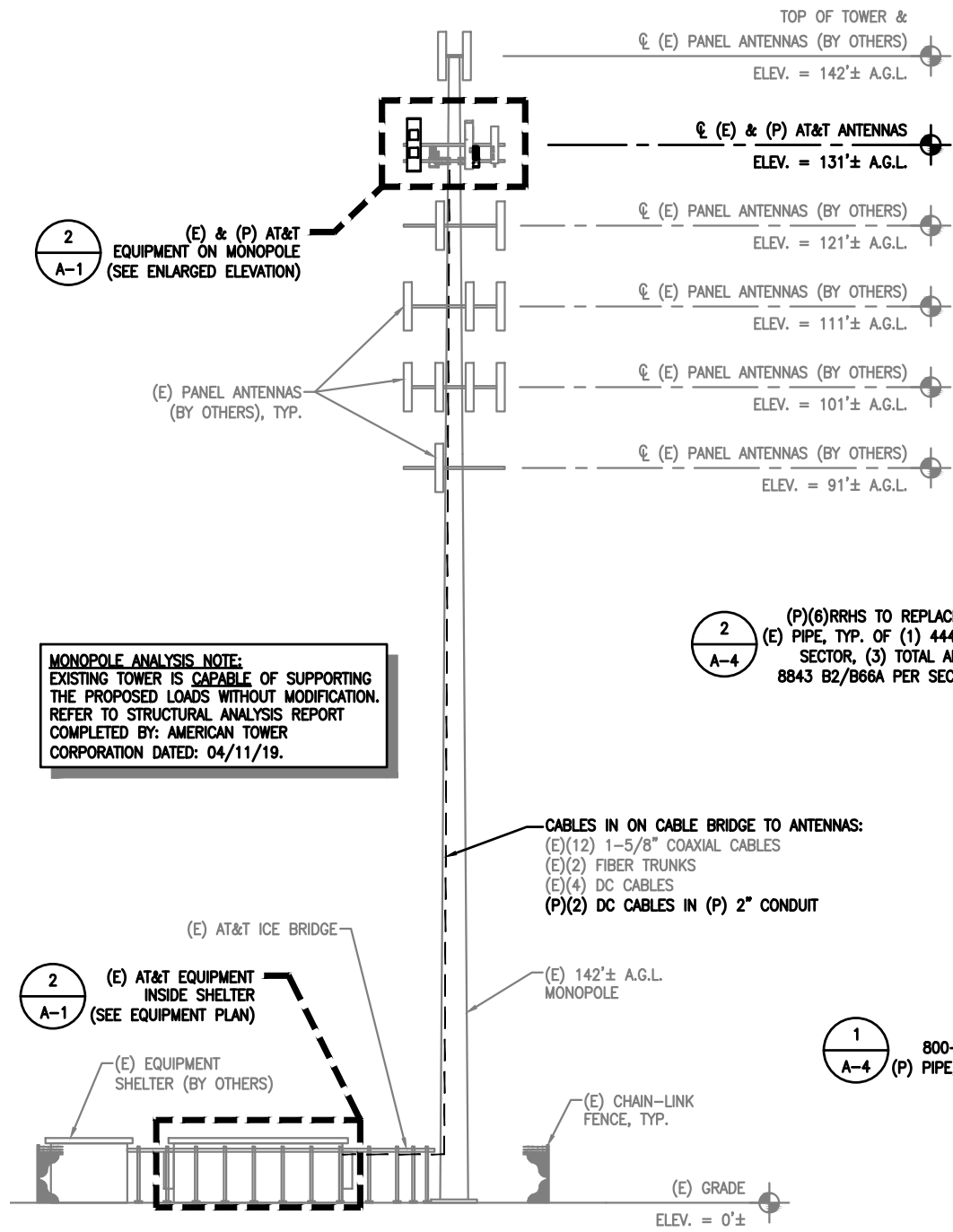


NO.	DATE	REVISIONS	BY	CHK
0	03/28/19	ISSUED FOR REVIEW	AAB	MRC
1	04/22/19	ISSUED FOR CONSTRUCTION	AAB	MRC

GENERAL NOTES

SHEET NO.

GN-1



1 ELEVATION
A-2 SCALE: 3/32" = 1'-0"

2 (P)(6)RRHS TO REPLACE (E) RRHS ON (E) PIPE, TYP. OF (1) 4449 B5/B12 PER SECTOR, (3) TOTAL AND TYP. OF (1) 8843 B2/B66A PER SECTOR, (3) TOTAL
A-4

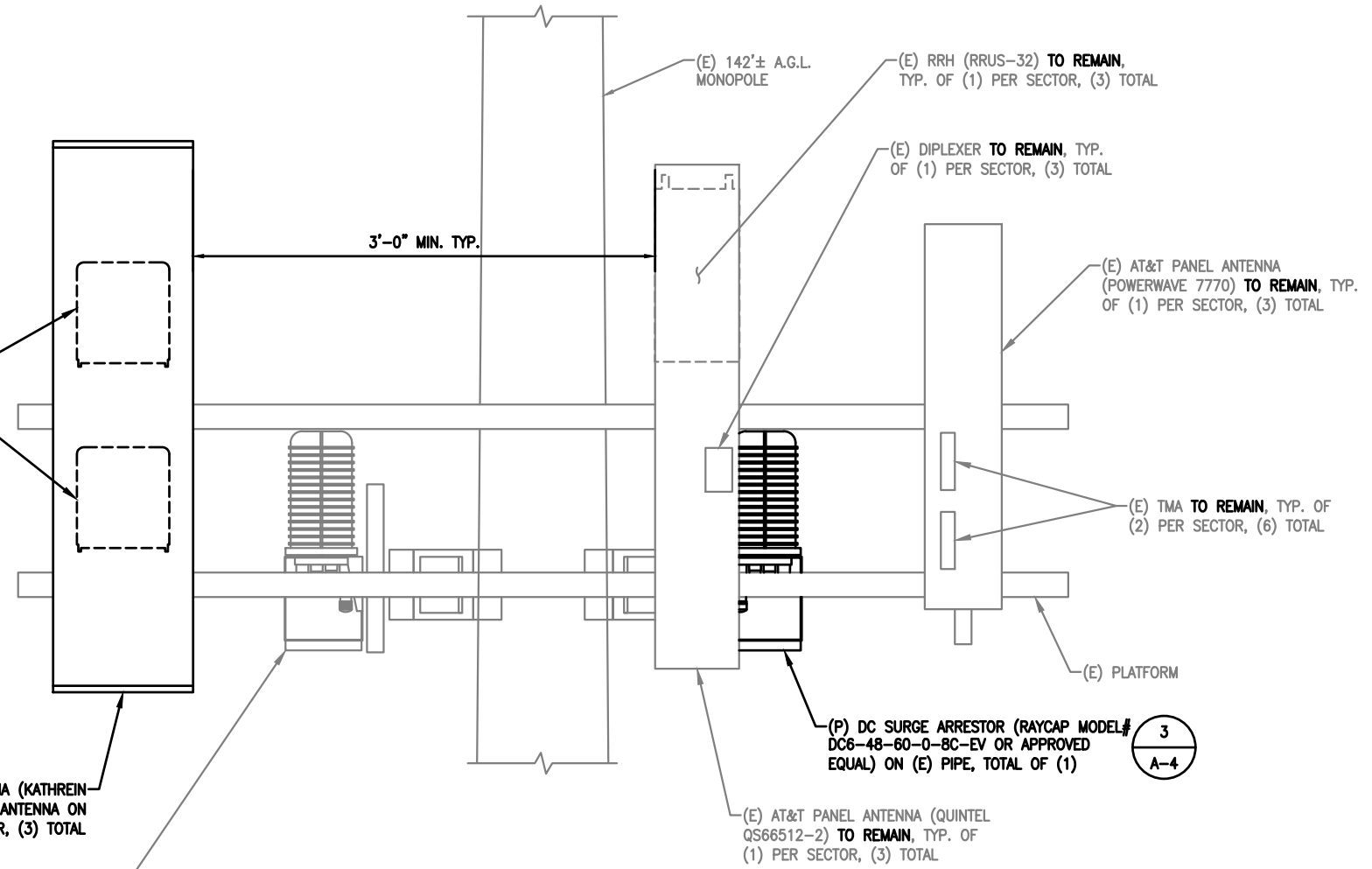
CABLES IN ON CABLE BRIDGE TO ANTENNAS:
(E)(12) 1-5/8" COAXIAL CABLES
(E)(2) FIBER TRUNKS
(E)(4) DC CABLES
(P)(2) DC CABLES IN (P) 2" CONDUIT

1 (P) AT&T PANEL ANTENNA (KATHREIN 800-10965) TO REPLACE (E) ANTENNA ON (P) PIPE, TYP. OF (1) PER SECTOR, (3) TOTAL
A-4

(E) DC/FIBER SURGE ARRESTOR, (2) TOTAL

STRUCTURAL NOTE:
NO ADDITIONAL MOUNT REINFORCEMENT NECESSARY PER MOUNT ANALYSIS BY B+T GROUP, DATED 03/22/2019.

*NOTE:
EXISTING ANTENNAS TO BE RELOCATED TO MAINTAIN A MINIMUM OF 3'-0" SEPARATION BETWEEN ALL LTE ANTENNAS. A MINIMUM OF 6'-0" SEPARATION BETWEEN 700BC AND 700DE ANTENNAS.

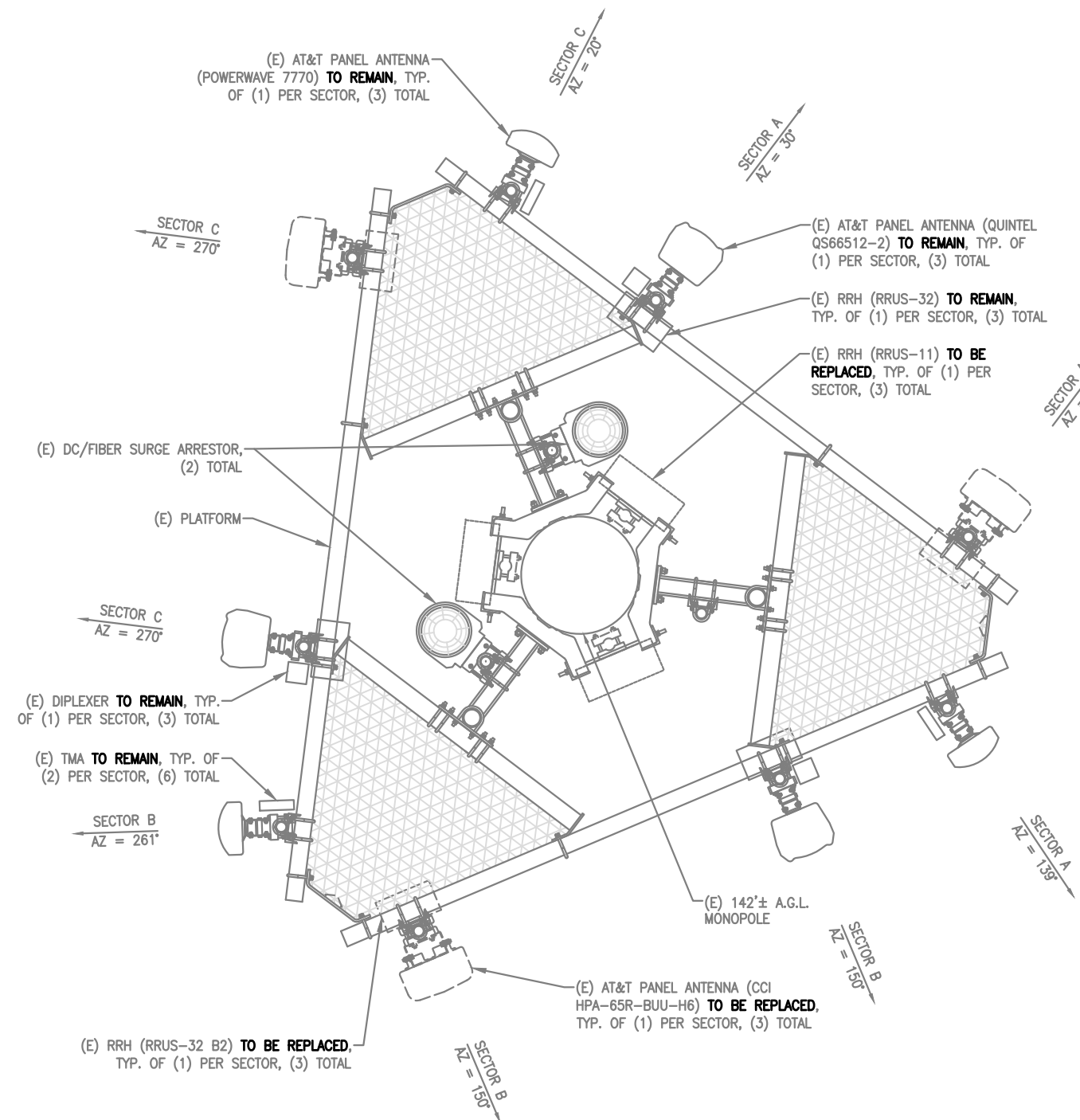


2 ENLARGED ANTENNA ELEVATION
A-2 SCALE: 1" = 1'-0"



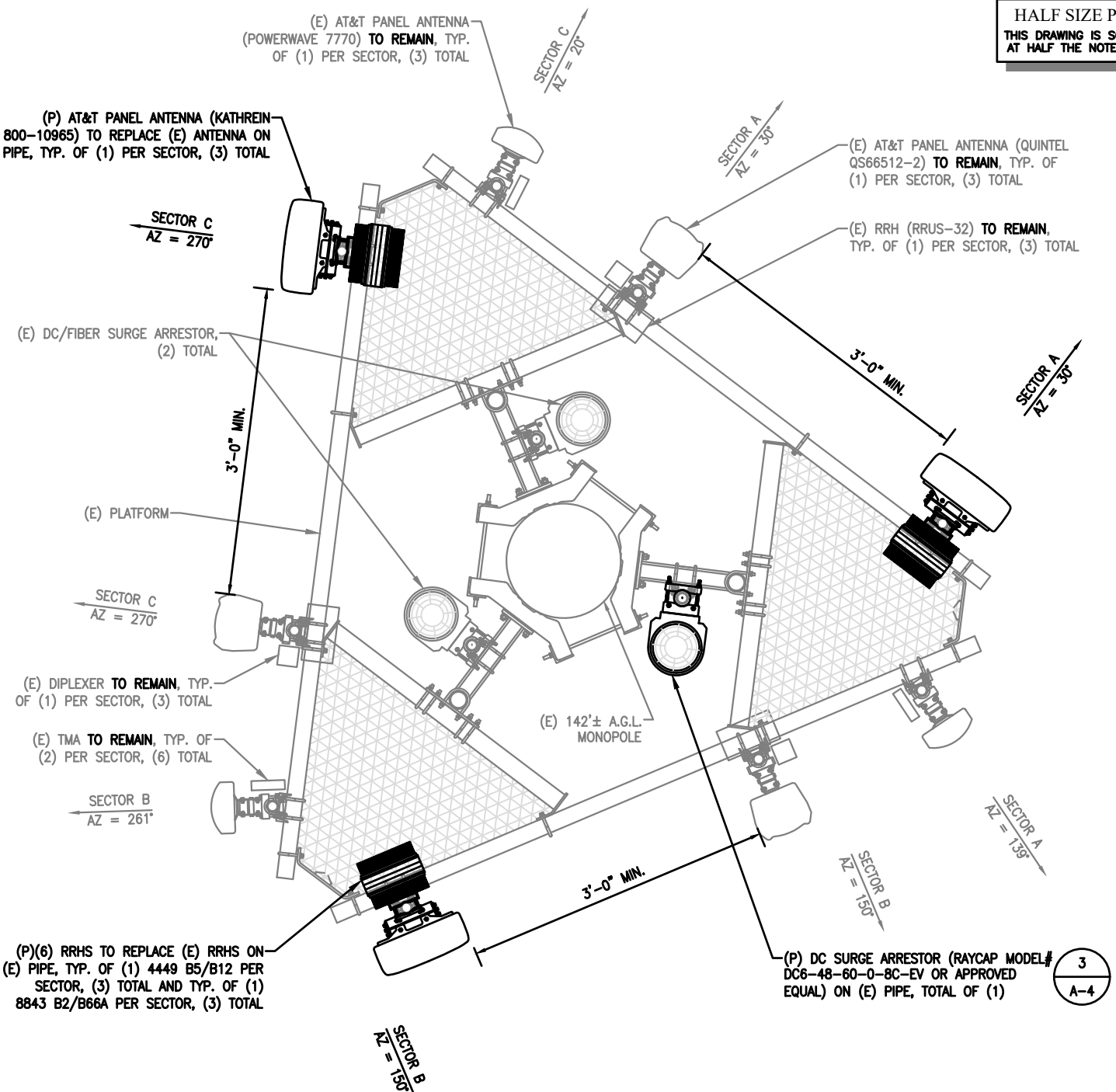
NO.	DATE	REVISIONS	BY	CHK
0	03/28/19	ISSUED FOR REVIEW	AAB	MRC
1	04/22/19	ISSUED FOR CONSTRUCTION	AAB	MRC

HALF SIZE PRINT
THIS DRAWING IS SCALEABLE
AT HALF THE NOTED SCALE



1 EXISTING ANTENNA PLAN
SCALE: 3/4" = 1'-0"
NORTH

1
A-4



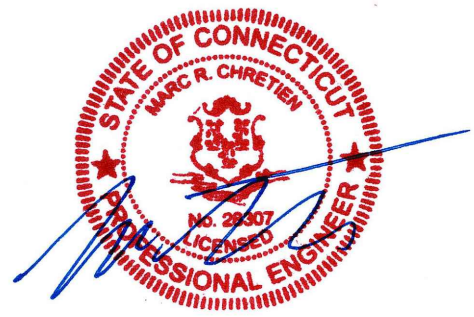
2 PROPOSED ANTENNA PLAN
SCALE: 3/4" = 1'-0"
NORTH

2
A-4

3
A-4

STRUCTURAL NOTE:
NO ADDITIONAL MOUNT REINFORCEMENT NECESSARY PER MOUNT ANALYSIS BY B+T GROUP, DATED 03/22/2019.

***NOTE:**
EXISTING ANTENNAS TO BE RELOCATED TO MAINTAIN A MINIMUM OF 3'-0" SEPARATION BETWEEN ALL LTE ANTENNAS. A MINIMUM OF 6'-0" SEPARATION BETWEEN 700BC AND 700DE ANTENNAS.



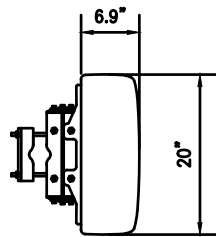
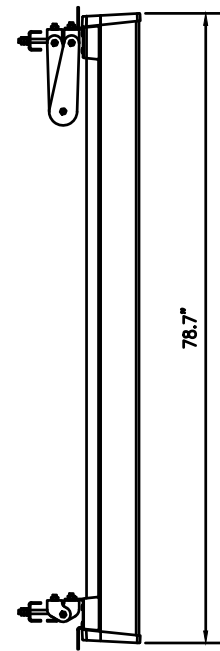
SITE NUMBER: CT2103
SITE NAME: WESTPORT SOUTH
19-20 POST OFFICE LANE
WESTPORT, CT 06880
FAIRFIELD COUNTY



NO.	DATE	REVISIONS	BY	CHK
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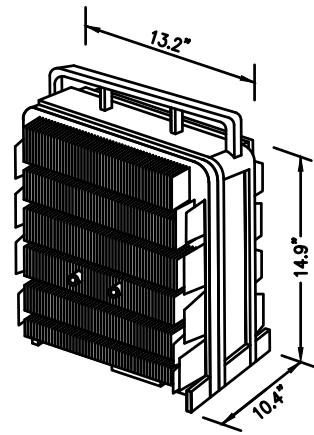
ANTENNA PLANS

SHEET NO. **A-3**

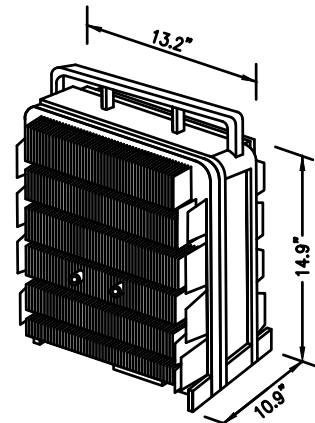


800-10965
 MANUFACTURER: KATHREIN
 DIMENSIONS: (HxWxD) 78.7"x20"x6.9"
 WEIGHT: 108.6 LBS.

1 ANTENNA DETAIL
 A-4 SCALE: N.T.S.



RRUS-4449 B5/B12
 MANUFACTURER: ERICSSON
 DIMENSIONS (HxWxD): 14.9"x13.2"x10.4"
 WEIGHT: 74 LBS

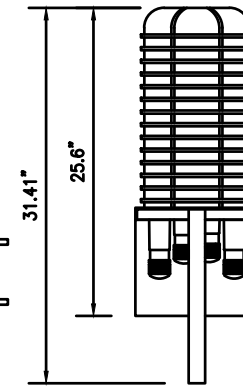
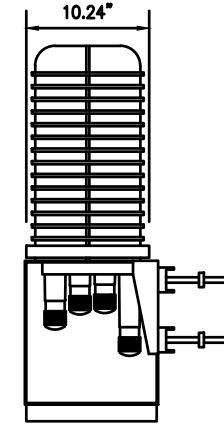


RRUS-8843 B2/B66A
 MANUFACTURER: ERICSSON
 DIMENSIONS (HxWxD): 14.9"x13.2"x10.9"
 WEIGHT: 72 LBS

2 RRH DETAILS
 A-4 SCALE: N.T.S.

RAYCAP DC6-48-60-0-8C-EV
 NUMBER OF RADIOS PROTECTED:
 SUPPRESSION CONNECTION METHOD:
 #2-#14 AWG COPPER, #2-#12
 ENVIRONMENTAL RATING:
 WEIGHT:

6 COMPRESSION LUG,
 ALUMINUM
 IP 68, 7M 72HRS
 26.2 LBS



SIDE

FRONT

3 SURGE ARRESTOR DETAIL
 A-4 SCALE: N.T.S.



NetSure 7100
 MANUFACTURER: EMERSON - VERTIV
 DIMENSIONS: (HxWxD) 84"x28"x28"

4 POWER PLANT DETAIL
 A-4 SCALE: N.T.S.

RF SYSTEM SCHEDULE

SECTOR	ANTENNA INFORMATION					RRH INFORMATION		TMA & DIPLEXER INFORMATION		FEEDER INFO.	
	POSITION	STATUS	MODEL	AZIMUTH	RAD CTR (A.G.L.)	STATUS	MODEL	STATUS	MODEL	COAX	FIBER
ALPHA	I-A	EXISTING	7770	139°	131'	-	-	(E)(2) TMA, (E)(2) DIPLXR.	(2) LGP 21401, (2) LGP 21901	2	-
	II-A	EXISTING	QS66512-2	30°	131'	EXISTING	RRUS-32	(E)(2) DIPLEXERS	(2) DBC0061F1V51-2	2	1
	III-A	-	-	-	-	-	-	-	-	-	-
	IV-A	PROPOSED	800-10965	30°	131'	PROPOSED, PROPOSED	4449 B5/B12, 8843 B2/B66A	-	-	-	1
BETA	I-B	EXISTING	7770	261°	131'	-	-	(E)(2) TMA, (E)(2) DIPLXR.	(2) LGP 21401, (2) LGP 21901	2	-
	II-B	EXISTING	QS66512-2	150°	131'	EXISTING	RRUS-32	(E)(2) DIPLEXERS	(2) DBC0061F1V51-2	2	1
	III-B	-	-	-	-	-	-	-	-	-	-
	IV-B	PROPOSED	800-10965	150°	131'	PROPOSED, PROPOSED	4449 B5/B12, 8843 B2/B66A	-	-	-	1
GAMMA	I-C	EXISTING	7770	20°	131'	-	-	(E)(2) TMA, (E)(2) DIPLXR.	(2) LGP 21401, (2) LGP 21901	2	-
	II-C	EXISTING	QS66512-2	270°	131'	EXISTING	RRUS-32	(E)(2) DIPLEXERS	(2) DBC0061F1V51-2	2	1
	III-C	-	-	-	-	-	-	-	-	-	-
	IV-C	PROPOSED	800-10965	270°	131'	PROPOSED, PROPOSED	4449 B5/B12, 8843 B2/B66A	-	-	-	1

* CONTRACTOR TO VERIFY FINAL RFDS PRIOR TO CONSTRUCTION



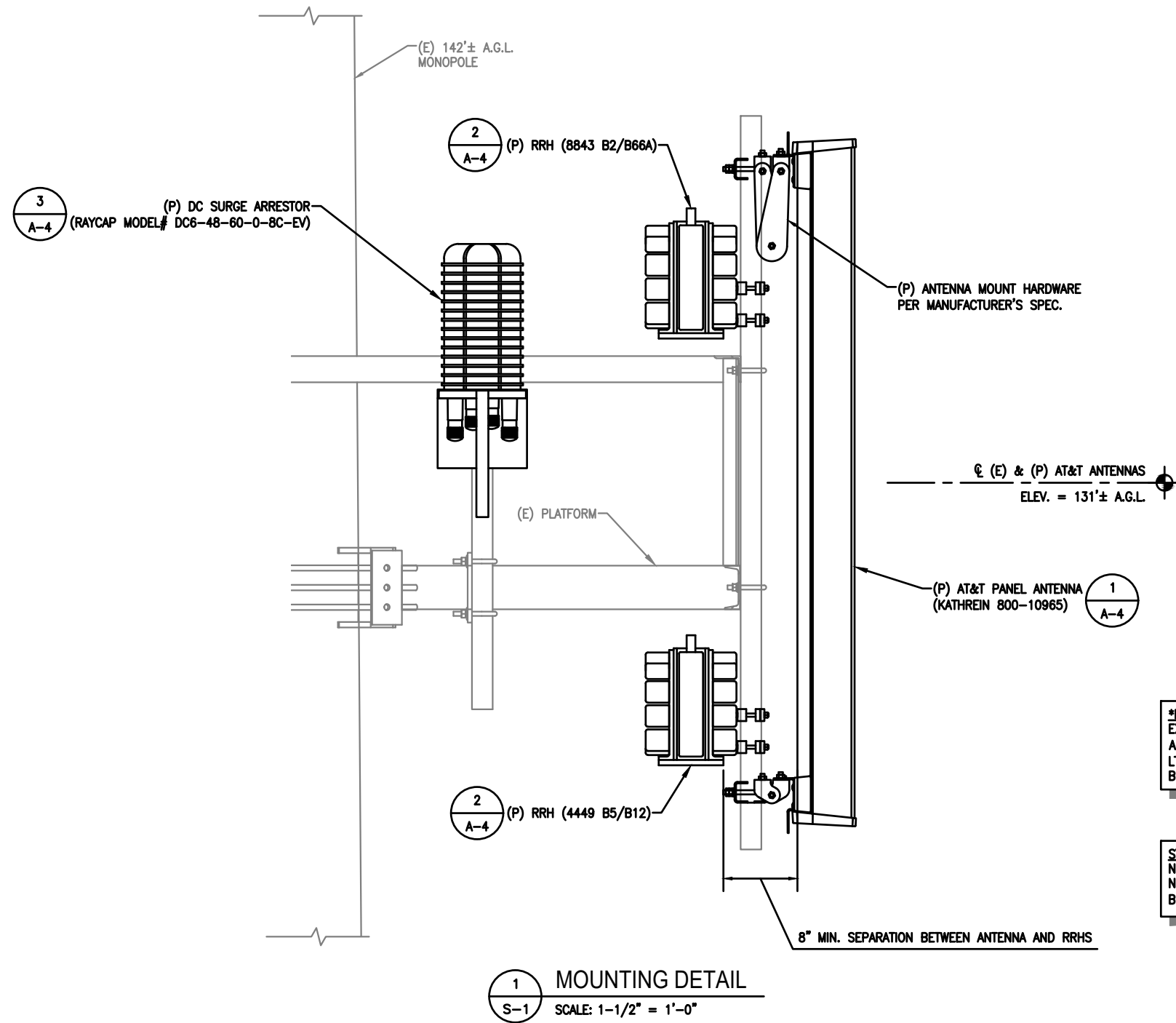
SITE NUMBER: CT2103
SITE NAME: WESTPORT SOUTH
 19-20 POST OFFICE LANE
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 FAIRFIELD COUNTY



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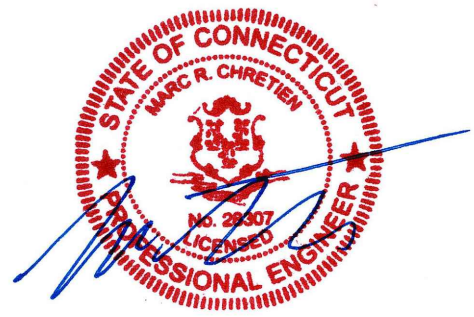
DETAILS AND
 RF SYSTEM SCHEDULE

SHEET NO. **A-4**



***NOTE:**
EXISTING ANTENNAS TO BE RELOCATED TO MAINTAIN A MINIMUM OF 3'-0" SEPARATION BETWEEN ALL LTE ANTENNAS. A MINIMUM OF 6'-0" SEPARATION BETWEEN 700BC AND 700DE ANTENNAS.

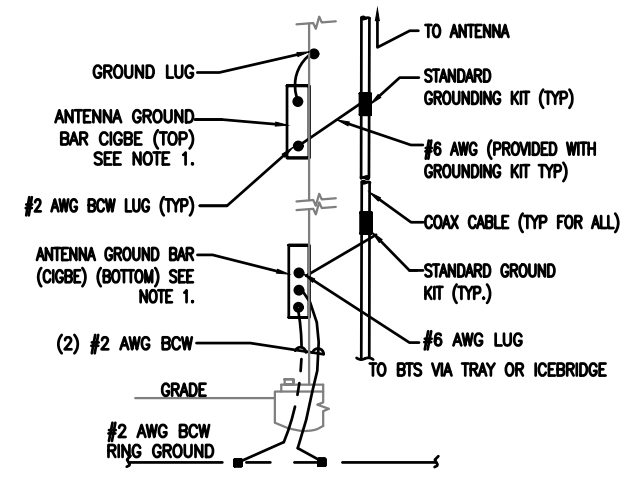
STRUCTURAL NOTE:
NO ADDITIONAL MOUNT REINFORCEMENT NECESSARY PER MOUNT ANALYSIS BY B+T GROUP, DATED 03/22/2019.



NO.	DATE	REVISIONS	BY	CHK
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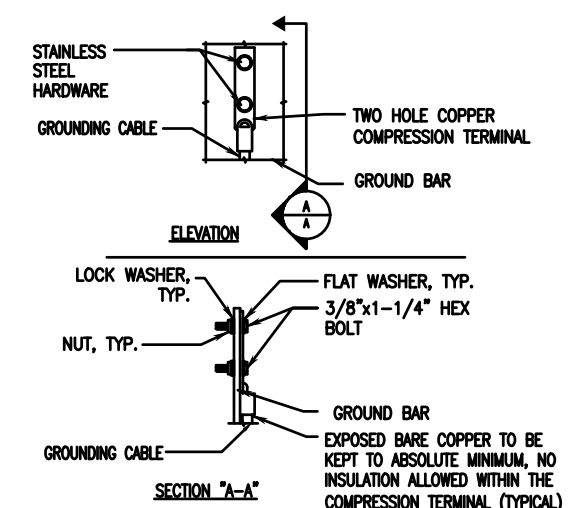
	CIRCUIT BREAKER	ACCA	ANTENNA CABLE COVER ASSEMBLY
	ELECTRIC BOX	AWG	AMERICAN WIRE GAUGE
	ELECTRICAL CONDUIT	BTWC	BARE TINNED COPPER WIRE
	EXOTHERMIC CONNECTION (CADWELD) TO GROUND RING AND COMPRESSION TO GROUND HALO	C	CONDUIT
	DISCONNECT SWITCH	CIGBE	COAX INSULATED GROUND BAR EXTERNAL CONDUIT ONLY
	GROUND ROD	DWG	DRAWING
	GROUND ROD WITH ACCESS	EGB	EXTERNAL GROUND BAR
	MECHANICAL GROUND CONN.	EMT	ELECTRICAL METALLIC TUBING
	GROUND ACCESS WELL	(E)	EXISTING
	GROUNDING WIRE	(F)	FUTURE
	GENERATOR	GEN	GENERATOR
	FUSE	GFI	GROUND FAULT CIRCUIT INTERRUPTER
	GROUND BUS BAR	GND	GROUND
	REVISION	GR	GROWTH
	TELEPHONE BOX	IGR	INTERIOR GROUND RING (HALO)
	UTILITY METER	MIGB	MASTER ISOLATED GROUND BAR
	XIT GROUND ROD	(P)	PROPOSED, NEW (PROVIDE AND INSTALL UNLESS NOTED OTHERWISE)
		PCS	PERSONAL COMMUNICATION SERVICE
		PPC	POWER PROTECTION CABINET
		PRC	PRIMARY RADIO CABINET
		PVC	POLYVINYL CHLORIDE CONDUIT
		RGS	RIGID GALVANIZED STEEL
		RWY	RACEWAY
		S.L.D.	SINGLE LINE DIAGRAM
		TEL	TELEPHONE
		TYP.	TYPICAL
		WP	WEATHER-PROOF EQUIPMENT

1 ELEC. / GROUNDING LEGEND
G-1 SCALE: N.T.S.



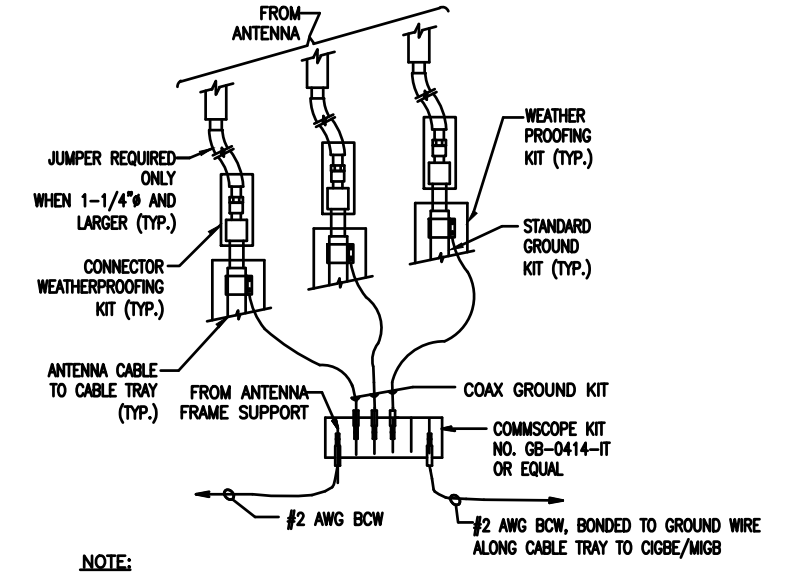
NOTE:
1. NUMBER OF GROUND BARS MAY VARY DEPENDING ON THE TYPE OF TOWER. ANTENNA LOCATION AND CONNECTION ANTENNA LOCATION AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
2. A SEPARATE GROUND BAR TO BE USED FOR GPS ANTENNA IF REQUIRED.

2 TYP. ANTENNA CABLE GROUNDING
G-1 SCALE: N.T.S.



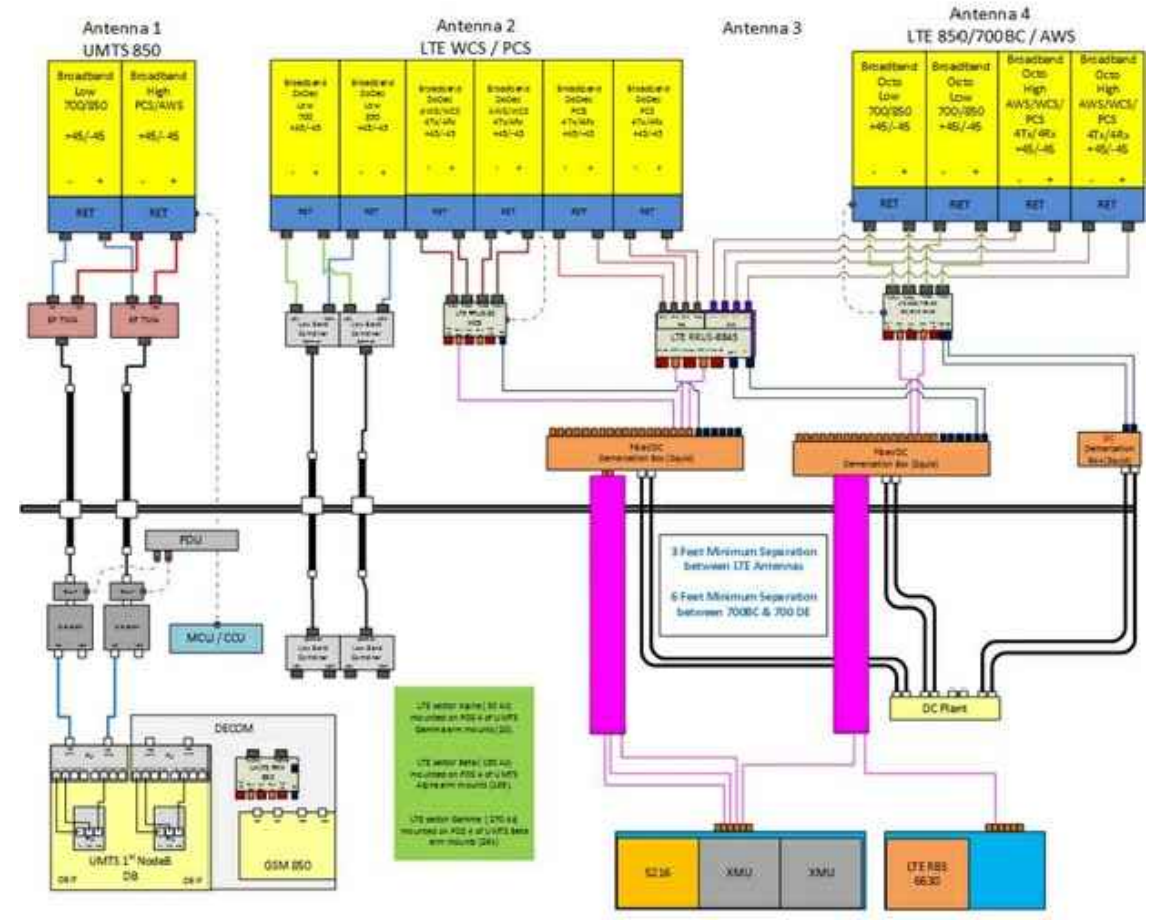
NOTES:
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB.
4. ALL GROUND LUGS MUST BE HEAT SHRUNK AT WIRE/LUG CONNECTION

3 TYP. GROUND BAR CONNECTION
G-1 SCALE: N.T.S.



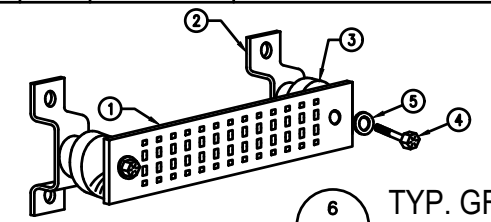
NOTE:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

4 TYP. GROUND WIRE TO GROUND BAR CONN.
G-1 SCALE: N.T.S.

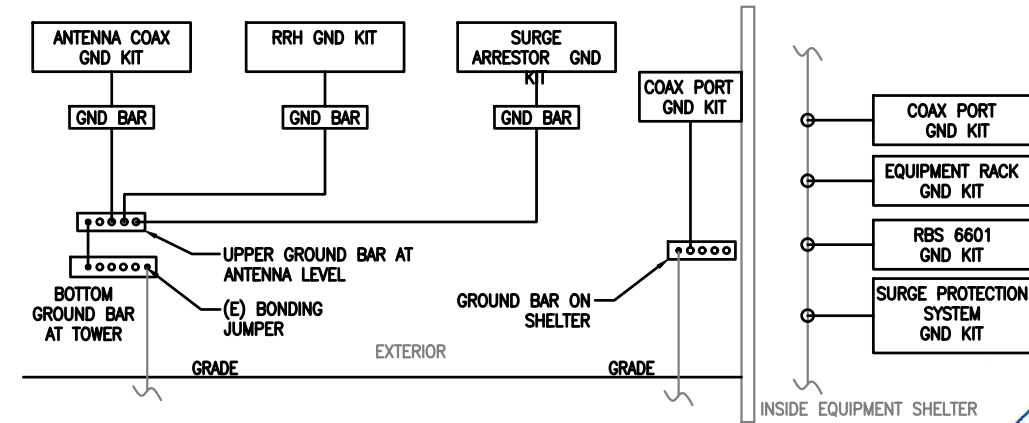


5 ONE LINE PLUMBING DIAGRAM
G-1 SCALE: N.T.S.

WIRELESS SOLUTIONS INC.				
NO.	REQ.	PART NO.	DESCRIPTION	
1	1	HLGB-0420-IS	SOLID GND. BAR (20"x4"x1/4")	
2	2		WALL MTG. BRKT.	
3	2		INSULATORS	
4	4		5/8"-11x1" H.H.C.S.	
5	4		5/8 LOCKWASHER	



6 TYP. GROUND BAR CONN.
G-1 SCALE: N.T.S.



7 ONE LINE GROUNDING DIAGRAM
G-1 SCALE: N.T.S.

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

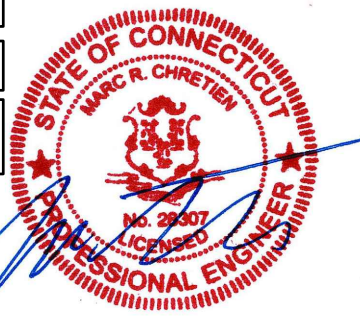
SECTION "P" - SURGE PRODUCERS

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

SECTION "A" - SURGE ABSORBERS

- INTERIOR GROUND RING (#2)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
- BUILDING STEEL (IF AVAILABLE) (#2)

GROUNDING NOTES:
ALL GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE AT&T MOBILITY GROUNDING GUIDE.



NO.	DATE	REVISIONS	BY	CHK
0	03/28/19	ISSUED FOR REVIEW	AAB	MRC
1	04/22/19	ISSUED FOR CONSTRUCTION	AAB	MRC



AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by



**TOWER
ENGINEERING
PROFESSIONALS**

Structural Analysis Report

Structure : 142 ft Monopole
ATC Site Name : WSPT - South, CT
ATC Site Number : 302511
Engineering Number : OAA746714_C3_02
Proposed Carrier : AT&T Mobility
Carrier Site Name : Westport South
Carrier Site Number : CT2103
Site Location : 20 Post Office Lane
Westport, CT 06880-6226
41.123400,-73.313100
County : Fairfield
Date : April 11, 2019
Max Usage : 91%
Result : Pass

Prepared By:
Austin Wilson
TEP

Reviewed By:



04/11/2019

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
Equipment to be Removed.....	3
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Deflection, Twist, and Sway.....	4
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Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 142 ft monopole to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	EEl Drawing# GS50841, dated March 2, 1998 SpectraSite Site #CT-0047, dated August 12, 2005
Foundation Drawing	Mapping by TEP Project #65218-72422, dated December 28, 2015
Geotechnical Report	MB&A Project #011105, dated July 17, 2001
Modifications	ATC Job #42046633, dated October 16, 2008 ATC Job #46844332/46993332, dated April 15, 2011

Analysis

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

Basic Wind Speed:	93 mph (3-Second Gust, V_{ASD}) / 120 mph (3-Second Gust, V_{ULT})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2015 IBC / 2018 Connecticut State Building Code
Structure Class:	II
Exposure Category:	C
Topographic Category:	1
Spectral Response:	$S_s = 0.23$, $S_1 = 0.07$
Site Class:	D - Stiff Soil

Conclusion

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

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



Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
140.0	3	Kathrein Scala 742-218 / AP20-1940/045D/ADT/XP	Flush	(6) 1 5/8" Coax (1) 3/8" Coax	METRO PCS INC
136.0	3	RCU (Remote Control Unit)			
131.0	3	Powerwave Allgon 7770.00	Platform with Handrails	(2) 0.39" (10mm) Fiber Trunk (2) 0.65" (16.4mm) 8 AWG 2C (2) 0.78" (19.7mm) 8 AWG 6 (12) 1 1/4" Coax (2) 2" conduit (1) 3/8" (0.38"-9.5mm) RET Control Cable	AT&T MOBILITY
	3	Quintel QS66512-2			
	2	Raycap DC6-48-60-18-8F ("Squid")			
	3	Kaelus DBC0061F1V51-2			
	12	Powerwave Allgon 7020.00 Dual Band RET			
	6	Powerwave Allgon LGP21401			
120.0	3	NextNet BTS-2500	Platform with Handrails	(2) 1/2" Coax (2) 2" conduit (6) 5/16" (0.31"-7.9mm) Coax	CLEARWIRE CORPORATION
	2	DragonWave Horizon Compact			
	2	DragonWave A-ANT-18G-2-C			
	3	Argus LLPX310R			
	3	Commscope NNVV-65B-R4	Platform with Handrails	(3) 1 1/4" Hybriflex Cable (2) 1.7" (43.2mm) Hybrid	SPRINT NEXTEL
	3	Nokia 2.5G MAA - AAHC(64T64R)			
	3	Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter			
3	Alcatel-Lucent RRH2x50-08				
111.0	9	Decibel DB844G90A-XY	Platform with Handrails	(1) 1/2" Coax (12) 7/8" Coax	
101.0	1	GPS			
100.0	3	Ryma MGD3-800TX	Platform with Handrails	(1) 1/2" Coax (11) 1 5/8" Coax (2) 1 5/8" Hybriflex	VERIZON WIRELESS
	2	Commscope RC2DC-3315-PF-48			
	3	Antel BXA-70080/6CF			
	6	Commscope NHH-65B-R2B			
	6	RFS FD9R6004/1C-3L			
	3	Alcatel-Lucent RRH2x60 700			
	3	Alcatel-Lucent B66A RRH 4x45			
90.0	4	Ericsson AIR 32 B2A/B66A	Platform with Handrails	(2) 1 1/4" (1.25"-31.8mm) Fiber (1) 1 5/8" (1.63"-41.3mm) Fiber (12) 1 5/8" Coax	T-MOBILE
	3	RFS APXVAARR24_43-U-NA20			
	3	Ericsson Radio 4449 B12,B71			
	4	RFS ATMAA1412D-1A20			
	4	Ericsson AIR 21, 1.3 M, B2A B4P			
79.0	2	6' Omni	Side Arm	(2) 0.405" (10.3mm) Coax	OTHER
63.0	1	PCTEL GPS-TMG-HR-26N	Stand-Off	(1) 1/2" Coax	SPRINT NEXTEL



Equipment to be Removed

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
131.0	3	Ericsson RRUS-11 (50 lbs.)	-	-	AT&T MOBILITY
	3	CCI HPA-65R-BUU-H6			
	3	Ericsson RRUS 32 w/ Solar Shield (52.9 lbs)			
	3	Ericsson RRUS 32 B2			

Proposed Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
131.0	1	Raycap DC6-48-60-0-8C-EV	Platform with Handrails	(2) 0.78" (19.7mm) 8 AWG 6 (1) 2" conduit	AT&T MOBILITY
	3	Ericsson RRUS 8843 B2, B66A			
	3	Ericsson RRUS 4449 B5, B12			
	3	Ericsson RRUS 32 B30			
	3	Kathrein Scala 80010965			

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

Install proposed lines inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	58%	Pass
Shaft	91%	Pass
Base Plate	77%	Pass
Flanges	38%	Pass
Reinforcement	80%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	3,857.9	47%
Axial (Kips)	92.4	14%
Shear (Kips)	41.7	20%

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) (°)
131.0	Raycap DC6-48-60-0-8C-EV	AT&T MOBILITY	2.076	1.793
	Ericsson RRUS 8843 B2, B66A	AT&T MOBILITY		
	Ericsson RRUS 4449 B5, B12			
	Ericsson RRUS 32 B30			
Kathrein Scala 80010965				
120.0	DragonWave A-ANT-18G-2-C	CLEARWIRE CORPORATIO	1.736	1.748

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



Standard Conditions

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

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

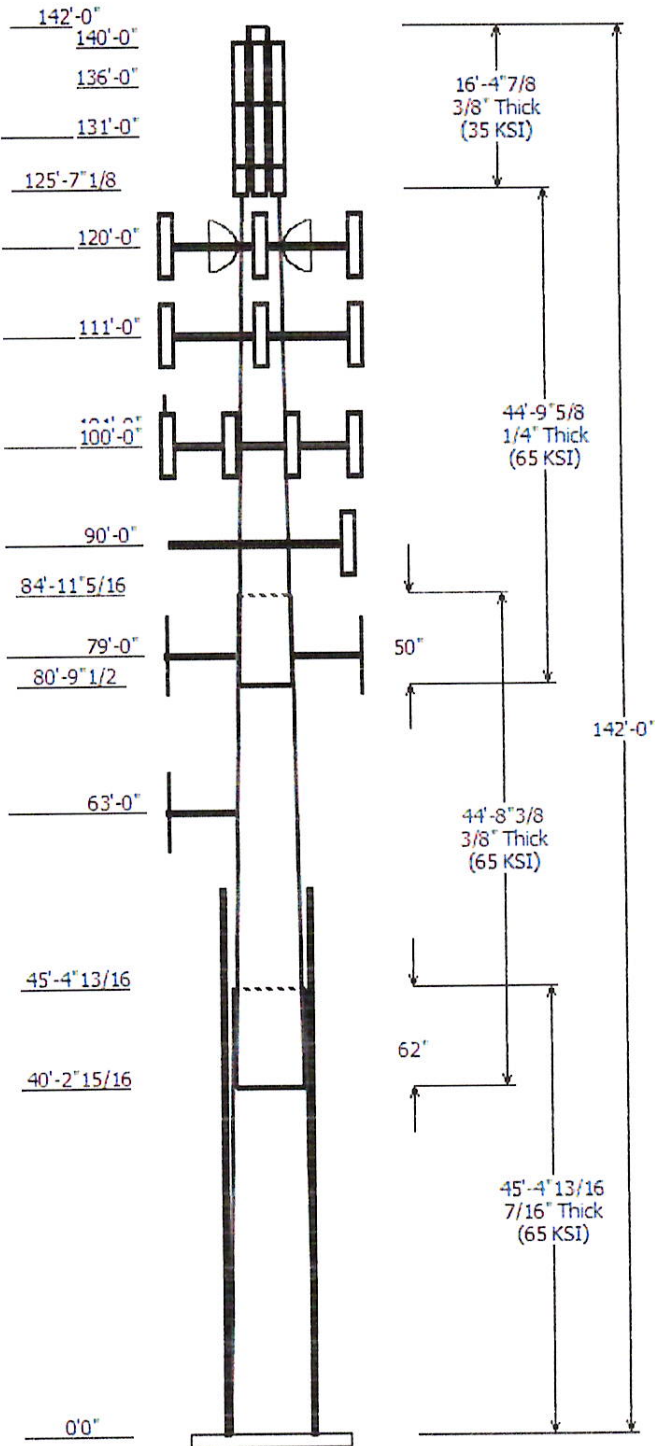
It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

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

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

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

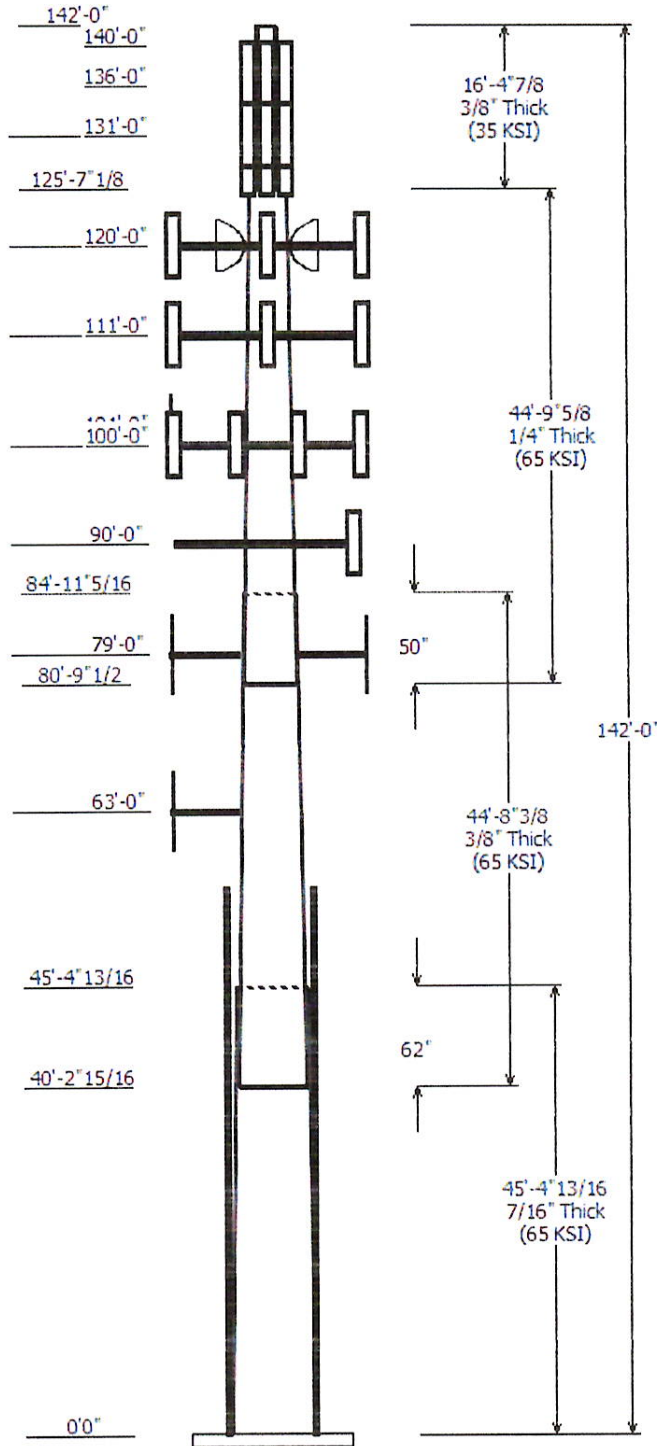
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Job Information	
Pole : 302511	Code: ANSI/TIA-222-G
Location : WSPT - South, CT	
Description : 142 ft EEI Monopole	
Client : AT&T MOBILITY	Struct Class : II
Shape : 12 Sides	Exposure : C
Height : 142.00 (ft)	Topo : 1
Base Elev (ft): 0.00	
Taper: 0.21263(in/ft)	

Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Overlap Length (in)	Steel Grade	Shape (ksi)
		Accross Top	Flats Bottom				
1	45.400	35.34	45.00	0.438	0.000	12 Sides	65
2	44.700	27.68	37.19	0.375 Slip Joint	61.875	12 Sides	65
3	44.800	19.54	29.07	0.250 Slip Joint	49.813	12 Sides	65
4	16.407	10.75	10.75	0.375 Butt Joint	0.000	Round	35

Discrete Appurtenance				
Attach Elev (ft)	Force Elev (ft)	Qty	Description	
140.000	139.000	3	Kathrein Scala 742-218 / AP20-	
136.000	139.000	3	Generic RCU (Remote Control	
131.000	131.000	1	Flat Platform w/ Handrails	
131.000	131.000	3	Kathrein Scala 80010965	
131.000	127.000	3	Quintel QS66512-2	
131.000	127.000	3	Powerwave Allgon 7770.00	
131.000	131.000	3	Ericsson RRUS 32 B30	
131.000	131.000	3	Ericsson RRUS 4449 B5, B12	
131.000	131.000	3	Ericsson RRUS 8843 B2, B66A	
131.000	129.000	2	Raycap DC6-48-60-18-8F	
131.000	127.000	6	Powerwave Allgon LGP21401	
131.000	131.000	1	Raycap DC6-48-60-0-8C-EV	
131.000	127.000	3	Kaelus DBC0061F1V51-2	
131.000	127.000	12	Powerwave Allgon 7020.00	
120.000	120.000	1	Flat Platform w/ Handrails	
120.000	120.000	3	Commscope NNVV-65B-R4	
120.000	120.000	3	Nokia 2.5G MAA -	
120.000	120.000	3	Alcatel-Lucent 800 MHz 2X50W	
120.000	120.000	3	Alcatel-Lucent RRH2x50-08	
120.000	120.000	2	DragonWave A-ANT-18G-2-C	
120.000	120.000	3	Argus LLPX310R	
120.000	120.000	3	NextNet BTS-2500	
120.000	120.000	2	DragonWave Horizon Compact	
111.000	111.000	1	Flat Platform w/ Handrails	
111.000	111.000	9	Decibel DB844G90A-XY	
101.000	101.000	1	Generic GPS	
100.000	100.000	1	Flat Platform w/ Handrails	
100.000	100.000	6	Commscope NHH-65B-R2B	
100.000	100.000	3	Antel BXA-70080/6CF	
100.000	100.000	2	Commscope RC2DC-3315-PF-	
100.000	100.000	3	Ryma MGD3-800TX	
100.000	100.000	3	Alcatel-Lucent B66A RRH 4x45	
100.000	100.000	3	Alcatel-Lucent RRH2x60 700	
100.000	100.000	6	RFS FD9R6004/1C-3L	
90.000	90.000	1	Flat Platform w/ Handrails	
90.000	90.000	3	RFS APXVAARR24_43-U-NA20	
90.000	90.000	4	Ericsson AIR 32 B2A/B66A	
90.000	90.000	4	Ericsson AIR 21, 1.3 M, B2A B4	
90.000	90.000	3	Ericsson Radio 4449 B12,B71	
90.000	90.000	4	RFS ATMAA1412D-1A20	
79.000	79.000	2	Round Side Arm	
79.000	79.000	2	Generic 6' Omni	
63.000	63.000	1	Stand-Off	
63.000	63.000	1	PCTEL GPS-TMG-HR-26N	



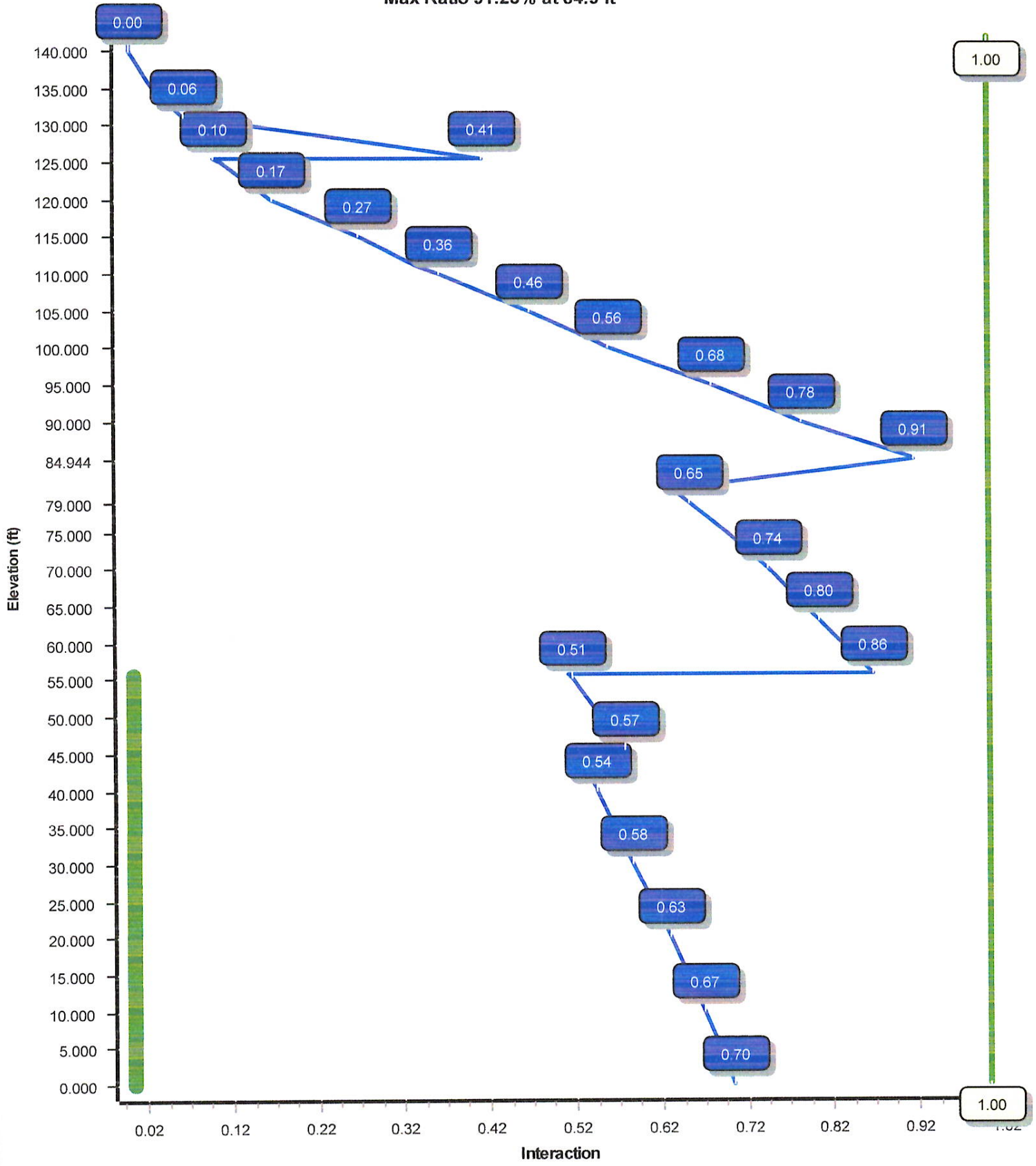
Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		
0.000	63.000	1/2" Coax	No
0.000	63.000	DYWIDAG	Yes
0.000	79.000	0.405" (10.3mm)	No
0.000	90.000	1 1/4" (1.25"-	No
0.000	90.000	1 5/8" (1.63"-	No
0.000	90.000	1 5/8" Coax	Yes
0.000	100.0	1 5/8" Coax	No
0.000	100.0	1 5/8" Hybriflex	No
0.000	101.0	1/2" Coax	No
0.000	111.0	1/2" Coax	No
0.000	111.0	7/8" Coax	No
0.000	120.0	1 1/4" Hybriflex	No
0.000	120.0	1.7" (43.2mm)	No
0.000	120.0	1/2" Coax	Yes
0.000	120.0	2" conduit	Yes
0.000	120.0	5/16" (0.31"-	Yes
0.000	131.0	0.39" (10mm)	No
0.000	131.0	0.65" (16.4mm) 8	No
0.000	131.0	0.78" (19.7mm) 8	No
0.000	131.0	0.78" (19.7mm) 8	No
0.000	131.0	1 1/4" Coax	No
0.000	131.0	2" conduit	No
0.000	131.0	2" conduit	No
0.000	131.0	3/8" (0.38"-	No
0.000	136.0	3/8" Coax	Yes
0.000	140.0	1 5/8" Coax	Yes

Load Cases	
1.2D + 1.6W	93 mph with No Ice
0.9D + 1.6W	93 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Lateral
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Modal
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	3857.92	41.65	59.92
0.9D + 1.6W	3721.06	39.98	44.92
1.2D + 1.0Di + 1.0Wi	1001.94	10.16	92.39
(1.2 + 0.2Sds) * DL + E ELFM	219.26	2.04	59.83
(1.2 + 0.2Sds) * DL + E EMAM	173.62	2.05	59.83
(0.9 - 0.2Sds) * DL + E ELFM	215.61	2.03	40.82
(0.9 - 0.2Sds) * DL + E EMAM	170.58	2.04	40.83
1.0D + 1.0W	973.57	10.40	50.00

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	120.00	20.796	1.745

Load Case : 1.2D + 1.6W
Max Ratio 91.25% at 84.9 ft



Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

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Customer: AT&T MOBILITY

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Bottom						Top						
							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	Iaper (in/ft)
1-12	45.400	0.4375	65		0.00	8,648	45.00	0.00	62.78	15912.1	25.42	102.86	35.34	45.40	49.18	7649.3	19.50	80.79	0.212638
2-12	44.700	0.3750	65	Slip	61.88	5,889	37.19	40.24	44.46	7692.0	24.43	99.18	27.68	84.94	32.98	3140.3	17.64	73.83	0.212638
3-12	44.800	0.2500	65	Slip	49.81	2,952	29.07	80.79	23.20	2459.7	29.01	116.28	19.54	125.59	15.53	738.0	18.80	78.18	0.212638
4-R	16.407	0.3750	35	Butt	0.00	682	10.75	125.59	12.22	164.6	0.00	28.67	10.75	142.00	12.22	164.6	0.00	28.67	0.000000
Shaft Weight						18,172													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	Weight (lb)	No Ice EPAa (sf)	Orientation Factor	Weight (lb)	Ice EPAa (sf)	Orientation Factor
63.00	PCTEL GPS-TMG-HR-26N	1	1.00	0.000	0.60	0.090	1.00	5.04	0.255	1.00
63.00	Stand-Off	1	1.00	0.000	30.00	1.000	0.67	43.41	1.479	0.67
79.00	Generic 6' Omni	2	1.00	0.000	25.00	1.760	1.00	68.22	2.939	1.00
79.00	Round Side Arm	2	1.00	0.000	150.00	5.200	0.67	218.57	7.747	0.67
90.00	Ericsson AIR 21, 1.3 M, B2A B4P	4	0.75	0.000	83.00	6.050	0.71	221.57	8.103	0.71
90.00	Ericsson AIR 32 B2A/B66A	4	0.75	0.000	143.30	6.870	0.75	316.66	9.047	0.75
90.00	Ericsson Radio 4449 B12,B71	3	0.75	0.000	74.00	1.640	0.50	127.16	2.442	0.50
90.00	Flat Platform w/ Handrails	1	1.00	0.000	2,000.00	42.400	1.00	3,349.37	62.312	1.00
90.00	RFS APXVAARR24_43-U-NA20	3	0.75	0.000	127.90	20.240	0.63	500.65	23.761	0.63
90.00	RFS ATMAA1412D-1A20	4	0.75	0.000	13.00	1.000	0.50	38.19	1.634	0.50
100.00	Alcatel-Lucent B66A RRH 4x45	3	0.75	0.000	67.00	2.580	0.67	135.27	3.663	0.67
100.00	Alcatel-Lucent RRH2x60 700	3	0.75	0.000	56.70	2.150	0.67	122.02	3.112	0.67
100.00	Antel BXA-70080/6CF	3	0.75	0.000	18.00	5.840	0.72	138.62	8.124	0.72
100.00	Commscope NHH-65B-R2B	6	0.75	0.000	43.70	8.080	0.69	211.04	10.754	0.69
100.00	Commscope RC2DC-3315-PF-48	2	0.75	0.000	32.00	3.780	0.77	137.21	5.049	0.77
100.00	Flat Platform w/ Handrails	1	1.00	0.000	2,000.00	42.400	1.00	3,364.05	62.529	1.00
100.00	RFS FD9R6004/1C-3L	6	0.75	0.000	3.10	0.310	0.50	10.79	0.676	0.50
100.00	Rymsa MGD3-800TX	3	0.75	0.000	15.40	3.340	0.69	80.83	5.051	0.69
101.00	Generic GPS	1	0.75	0.000	10.00	0.900	1.00	38.17	1.516	1.00
111.00	Decibel DB844G90A-XY	9	0.75	0.000	14.00	3.610	0.73	120.53	3.894	0.73
111.00	Flat Platform w/ Handrails	1	1.00	0.000	2,000.00	42.400	1.00	3,381.23	62.783	1.00
120.00	Alcatel-Lucent 800 MHz 2X50W	3	0.75	0.000	64.00	2.060	0.67	139.34	2.997	0.67
120.00	Alcatel-Lucent RRH2x50-08	3	0.75	0.000	52.90	1.700	0.50	110.85	2.543	0.50
120.00	Argus LLPX310R	3	0.75	0.000	28.60	4.290	0.63	116.72	5.906	0.63
120.00	Commscope NNVV-65B-R4	3	0.75	0.000	77.40	12.270	0.64	323.11	15.012	0.64
120.00	DragonWave A-ANT-18G-2-C	2	0.75	0.000	27.10	4.690	1.00	122.53	5.936	1.00
120.00	DragonWave Horizon Compact	2	0.75	0.000	10.60	0.720	0.50	32.59	1.276	0.50
120.00	Flat Platform w/ Handrails	1	1.00	0.000	2,000.00	42.400	1.00	3,389.74	62.908	1.00
120.00	NextNet BTS-2500	3	0.75	0.000	35.00	1.820	0.50	80.35	2.718	0.50
120.00	Nokia 2.5G MAA - AAHC(64T64R)	3	0.75	0.000	103.60	4.200	0.64	213.84	5.510	0.64
131.00	Ericsson RRUS 32 B30	3	0.75	0.000	60.00	2.740	0.67	132.70	3.894	0.67
131.00	Ericsson RRUS 4449 B5, B12	3	0.75	0.000	71.00	1.970	0.50	134.69	2.892	0.50
131.00	Ericsson RRUS 8843 B2, B66A	3	0.75	0.000	72.00	1.640	0.50	132.57	2.475	0.50
131.00	Flat Platform w/ Handrails	1	1.00	0.000	2,000.00	42.400	1.00	3,404.40	63.125	1.00
131.00	Kaelus DBC0061F1V51-2	3	0.75	-4.000	25.50	0.430	0.50	43.76	0.871	0.50
131.00	Kathrein Scala 80010965	3	0.75	0.000	97.60	13.810	0.62	361.06	16.824	0.62
131.00	Powerwave Allgon 7020.00 Dual	12	0.75	-4.000	2.20	0.340	0.50	12.29	0.746	0.50
131.00	Powerwave Allgon 7770.00	3	0.75	-4.000	35.00	5.510	0.65	167.88	6.549	0.65
131.00	Powerwave Allgon LGP21401	6	0.75	-4.000	14.10	1.100	0.50	38.76	1.803	0.50
131.00	Quintel QS66512-2	3	0.75	-4.000	111.00	8.130	0.74	307.92	10.884	0.74
131.00	Raycap DC6-48-60-0-8C-EV	1	0.75	0.000	16.00	1.020	1.00	60.75	1.578	1.00
131.00	Raycap DC6-48-60-18-8F	2	0.75	-2.000	31.80	1.470	1.00	92.77	2.160	1.00
136.00	Generic RCU (Remote Control	3	1.00	3.000	1.00	0.140	1.00	6.49	0.473	1.00
140.00	Kathrein Scala 742-218 / AP20-	3	1.00	-1.000	22.50	3.850	0.63	110.78	4.768	0.63
Totals	Num Loadings:44	135			15,732.90			33,941.35		

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

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Customer: AT&T MOBILITY

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Diameter (in)	Coax Weight (lb/ft)	Projected Width Flat (in)	Exposed To Wind	Carrier
0.00	140.00	6	1 5/8" Coax	1.98	0.82	N 1.98	Y	METRO PCS INC
0.00	136.00	1	3/8" Coax	0.44	0.08	N 0.44	Y	METRO PCS INC
0.00	131.00	2	0.39" (10mm) Fiber	0.39	0.06	N 0.00	N	AT&T MOBILITY
0.00	131.00	2	0.65" (16.4mm) 8 AWG	0.65	0.31	N 0.00	N	AT&T MOBILITY
0.00	131.00	2	0.78" (19.7mm) 8 AWG	0.78	0.59	N 0.00	N	AT&T MOBILITY
0.00	131.00	2	0.78" (19.7mm) 8 AWG	0.78	0.59	N 0.00	N	AT&T MOBILITY
0.00	131.00	12	1 1/4" Coax	1.55	0.63	N 0.00	N	AT&T MOBILITY
0.00	131.00	2	2" conduit	2.38	3.65	N 0.00	N	AT&T MOBILITY
0.00	131.00	1	2" conduit	2.38	3.65	N 0.00	N	AT&T MOBILITY
0.00	131.00	1	3/8" (0.38"- 9.5mm)	0.38	0.23	N 0.00	N	AT&T MOBILITY
0.00	120.00	3	1 1/4" Hybriflex Cable	1.54	1.00	N 0.00	N	SPRINT NEXTEL
0.00	120.00	2	1.7" (43.2mm) Hybrid	1.70	1.78	N 0.00	N	SPRINT NEXTEL
0.00	120.00	2	1/2" Coax	0.63	0.15	N 0.00	Y	CLEARWIRE CORPORATION
0.00	120.00	2	2" conduit	2.38	3.65	N 2.38	Y	CLEARWIRE CORPORATION
0.00	120.00	6	5/16" (0.31"-7.9mm)	0.31	0.05	N 0.00	Y	CLEARWIRE CORPORATION
0.00	111.00	1	1/2" Coax	0.63	0.15	N 0.00	N	SPRINT NEXTEL
0.00	111.00	12	7/8" Coax	1.09	0.33	N 0.00	N	SPRINT NEXTEL
0.00	101.00	1	1/2" Coax	0.63	0.15	N 0.00	N	VERIZON WIRELESS
0.00	100.00	11	1 5/8" Coax	1.98	0.82	N 0.00	N	VERIZON WIRELESS
0.00	100.00	2	1 5/8" Hybriflex	1.98	1.30	N 0.00	N	VERIZON WIRELESS
0.00	90.00	2	1 1/4" (1.25"- 31.8mm)	1.25	1.05	N 1.25	N	T-MOBILE
0.00	90.00	1	1 5/8" (1.63"-41.3mm)	1.63	1.61	N 0.00	N	T-MOBILE
0.00	90.00	12	1 5/8" Coax	1.98	0.82	N 1.58	Y	T-MOBILE
0.00	79.00	2	0.405" (10.3mm) Coax	0.41	0.11	N 0.00	N	OTHER
0.00	63.00	1	1/2" Coax	0.63	0.15	N 0.00	N	SPRINT NEXTEL
0.00	63.00	4	DYWIDAG	4.00	16.70	N 1.58	Y	--

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Description	Spacing (in)	Len (in)	Connectors	Continuation?
0.00	55.68	4	SOL #20 All Thread	80	2.19	6" Angle Bracket	30.0	3.31	5/8" A36 U-Bolt	Yes

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

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Customer: AT&T MOBILITY

Segment Properties (Max Len : 5. ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)	Additional Reinforcing		
												Area (in ²)	Ix (in ⁴)	Weight (lb)
0.00		0.4375	45.000	62.777	15,912.1	25.42	102.86	77.0	683.1	0.0	0.0	19.64	6,615	0.0
5.00		0.4375	43.937	61.280	14,800.2	24.77	100.43	77.7	650.7	0.0	1,055.3	19.64	6,347	334.0
10.00		0.4375	42.874	59.782	13,741.3	24.11	98.00	78.4	619.2	0.0	1,029.9	19.64	6,084	334.0
15.00		0.4375	41.810	58.284	12,734.1	23.46	95.57	79.1	588.4	0.0	1,004.4	19.64	5,827	334.0
20.00		0.4375	40.747	56.786	11,777.4	22.81	93.14	79.8	558.4	0.0	978.9	19.64	5,576	334.0
25.00		0.4375	39.684	55.289	10,869.9	22.16	90.71	80.5	529.2	0.0	953.4	19.64	5,330	334.0
30.00		0.4375	38.621	53.791	10,010.2	21.51	88.28	81.3	500.7	0.0	927.9	19.64	5,090	334.0
35.00		0.4375	37.558	52.293	9,197.1	20.86	85.85	81.9	473.1	0.0	902.4	19.64	4,855	334.0
40.00		0.4375	36.494	50.795	8,429.2	20.21	83.42	81.9	446.2	0.0	877.0	19.64	4,626	334.0
40.24	Bot - Section 2	0.4375	36.443	50.722	8,392.9	20.18	83.30	81.9	444.9	0.0	42.1	19.64	4,615	16.3
45.00		0.4375	35.431	49.297	7,705.4	19.56	80.99	81.9	420.1	0.0	1,519.0	19.64	4,559	317.7
45.40	Top - Section 1	0.3750	36.096	43.133	7,025.1	23.65	96.26	78.9	376.0	0.0	125.8	19.64	4,541	26.7
50.00		0.3750	35.118	41.952	6,463.7	22.95	93.65	79.7	355.6	0.0	665.9	19.64	4,337	307.3
55.00		0.3750	34.055	40.668	5,888.2	22.19	90.81	80.5	334.0	0.0	702.9	19.64	4,121	334.0
55.68	Reinf. Top	0.3750	33.911	40.495	5,813.1	22.09	90.43	80.6	331.2	0.0	93.5	19.64	4,092	45.2
60.00		0.3750	32.992	39.385	5,348.0	21.43	87.98	81.3	313.2	0.0	587.5			
63.00		0.3750	32.354	38.614	5,040.3	20.97	86.28	81.8	301.0	0.0	398.1			
65.00		0.3750	31.929	38.101	4,841.9	20.67	85.14	81.9	293.0	0.0	261.0			
70.00		0.3750	30.865	36.817	4,368.8	19.91	82.31	81.9	273.4	0.0	637.3			
75.00		0.3750	29.802	35.533	3,927.5	19.15	79.47	81.9	254.6	0.0	615.5			
79.00		0.3750	28.952	34.506	3,596.7	18.54	77.20	81.9	240.0	0.0	476.7			
80.00		0.3750	28.739	34.249	3,517.0	18.39	76.64	81.9	236.4	0.0	117.0			
80.79	Bot - Section 3	0.3750	28.570	34.046	3,454.7	18.27	76.19	81.9	233.6	0.0	92.1			
84.94	Top - Section 2	0.2500	28.188	22.490	2,240.5	28.07	112.75	74.1	153.6	0.0	796.1			
85.00		0.2500	28.176	22.480	2,237.7	28.06	112.70	74.1	153.4	0.0	4.3			
90.00		0.2500	27.113	21.624	1,991.7	26.92	108.45	75.4	141.9	0.0	375.2			
95.00		0.2500	26.049	20.768	1,764.4	25.78	104.20	76.6	130.9	0.0	360.6			
100.0		0.2500	24.986	19.913	1,555.2	24.64	99.94	77.8	120.2	0.0	346.1			
101.0		0.2500	24.774	19.741	1,515.4	24.41	99.09	78.1	118.2	0.0	67.5			
105.0		0.2500	23.923	19.057	1,363.1	23.50	95.69	79.1	110.1	0.0	264.0			
110.0		0.2500	22.860	18.201	1,187.6	22.36	91.44	80.3	100.4	0.0	316.9			
111.0		0.2500	22.647	18.030	1,154.4	22.13	90.59	80.6	98.5	0.0	61.6			
115.0		0.2500	21.797	17.345	1,027.8	21.22	87.19	81.6	91.1	0.0	240.7			
120.0		0.2500	20.733	16.489	883.1	20.08	82.93	81.9	82.3	0.0	287.8			
125.0		0.2500	19.670	15.633	752.6	18.94	78.68	81.9	73.9	0.0	273.3			
125.5	Top - Section 3	0.2500	19.544	15.532	738.0	18.80	78.18	81.9	72.9	0.0	31.4			
125.5	Bot - Section 4	0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	183.3			
130.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	41.6			
131.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	166.4			
135.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	41.6			
136.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	166.4			
140.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	83.2			
142.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	40.4	18,171.7			3,719.2

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

4/11/2019 1:16:42 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W	93 mph with No Ice	25 Iterations
Gust Response Factor :1.10		Wind Importance Factor :1.00
Dead Load Factor :1.20		
Wind Load Factor :1.60		

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		367.8	0.0					0.0	0.0	367.8	0.0	0.0	0.0
5.00		730.6	1,266.4					0.0	1,228.2	730.6	2,494.6	0.0	0.0
10.00		720.5	1,235.8					0.0	1,228.2	720.5	2,464.0	0.0	0.0
15.00		721.5	1,205.3					0.0	1,228.2	721.5	2,433.5	0.0	0.0
20.00		741.9	1,174.7					0.0	1,228.2	741.9	2,402.9	0.0	0.0
25.00		766.8	1,144.1					0.0	1,228.2	766.8	2,372.3	0.0	0.0
30.00		753.2	1,113.5					0.0	1,228.2	753.2	2,341.7	0.0	0.0
35.00		729.8	1,082.9					147.2	1,228.2	877.0	2,311.1	0.0	0.0
40.00		383.0	1,052.4					151.7	1,228.2	534.7	2,280.6	0.0	0.0
40.24	Bot - Section 2	371.4	50.5					7.5	59.9	378.9	110.4	0.0	0.0
45.00		383.3	1,822.8					148.2	1,168.3	531.5	2,991.1	0.0	0.0
45.40	Top - Section 1	369.6	151.0					12.6	98.3	382.2	249.2	0.0	0.0
50.00		706.1	799.1					146.8	1,129.9	852.9	1,929.0	0.0	0.0
55.00		415.5	843.4					162.8	1,228.2	578.3	2,071.6	0.0	0.0
55.68	Reinf. Top	361.8	112.2					22.3	166.3	384.1	278.5	0.0	0.0
60.00		527.1	705.0					143.7	715.4	670.8	1,420.4	0.0	0.0
63.00	Appurtenance(s)	365.4	477.7	32.3	0.0	0.0	36.7	101.0	496.4	498.7	1,010.9	0.0	0.0
65.00		527.3	313.3					0.0	170.3	527.3	483.5	0.0	0.0
70.00		720.2	764.8					0.0	425.7	720.2	1,190.5	0.0	0.0
75.00		613.5	738.6					139.7	425.7	753.2	1,164.3	0.0	0.0
79.00	Appurtenance(s)	336.4	572.0	467.6	0.0	0.0	420.0	113.2	340.6	917.2	1,332.5	0.0	0.0
80.00		119.3	140.4					28.5	84.9	147.8	225.3	0.0	0.0
80.79	Bot - Section 3	329.7	110.5					22.6	67.3	352.3	177.8	0.0	0.0
84.94	Top - Section 2	280.8	955.3					119.3	352.3	400.0	1,307.6	0.0	0.0
85.00		329.7	5.2					1.6	4.8	331.3	9.9	0.0	0.0
90.00	Appurtenance(s)	649.2	450.2	4,710.0	0.0	0.0	4,275.5	145.3	424.4	5,504.5	5,150.1	0.0	0.0
95.00		642.6	432.8					0.0	343.1	642.6	775.8	0.0	0.0
100.00	Appurtenance(s)	382.7	415.3	4,419.6	0.0	0.0	3,379.3	0.0	343.1	4,802.4	4,137.7	0.0	0.0
101.00	Appurtenance(s)	315.2	81.0	31.7	0.0	0.0	12.0	0.0	54.7	346.9	147.6	0.0	0.0
105.00		562.5	316.9					0.0	218.0	562.5	534.8	0.0	0.0
110.00		367.1	380.3					0.0	272.5	367.1	652.8	0.0	0.0
111.00	Appurtenance(s)	277.6	74.0	2,882.7	0.0	0.0	2,551.2	23.0	54.5	3,183.2	2,679.7	0.0	0.0
115.00		488.0	288.9					92.3	198.2	580.3	487.1	0.0	0.0
120.00	Appurtenance(s)	489.9	345.4	4,227.9	0.0	0.0	3,791.9	116.3	247.8	4,834.1	4,385.1	0.0	0.0
125.00		249.2	327.9					0.0	161.0	249.2	489.0	0.0	0.0
125.59	Top - Section 3	142.9	37.7					0.0	19.1	142.9	56.8	0.0	0.0
130.00		143.5	220.0					52.6	142.0	196.1	361.9	0.0	0.0
131.00	Appurtenance(s)	133.6	49.9	4,896.6	0.0	-5,358.7	4,328.3	12.0	32.2	5,042.2	4,410.4	0.0	0.0
135.00		133.8	199.6					48.2	24.0	182.0	223.6	0.0	0.0
136.00	Appurtenance(s)	94.4	49.9	21.1	0.0	63.3	3.6	12.1	6.0	127.5	59.5	0.0	0.0
140.00	Appurtenance(s)	94.6	199.6	365.4	0.0	-365.4	81.0	0.0	23.6	460.0	304.3	0.0	0.0
142.00		27.1	99.8					0.0	0.0	27.1	99.8	0.0	0.0
Totals:										41,891.4	60,009.3	0.00	0.00

Site Number: 302511
 Site Name: WSPT - South, CT
 Customer: AT&T MOBILITY

Code: ANSI/TIA-222-G
 Engineering Number: OAA746714_C3_02

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 4/11/2019 1:16:50 PM

Load Case: 1.2D + 1.6W

93 mph with No Ice

25 Iterations

Gust Response Factor :1.10
 Dead Load Factor :1.20
 Wind Load Factor :1.60

Wind Importance Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-59.92	-41.65	0.00	-3,857.92	0.00	3,857.92	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.702
5.00	-57.26	-41.15	0.00	-3,649.67	0.00	3,649.67	4,285.51	2,142.75	7,679.11	3,792.42	0.13	-0.24	0.684
10.00	-54.63	-40.65	0.00	-3,443.91	0.00	3,443.91	4,218.97	2,109.49	7,373.27	3,641.38	0.51	-0.48	0.666
15.00	-52.03	-40.12	0.00	-3,240.69	0.00	3,240.69	4,150.52	2,075.26	7,070.06	3,491.64	1.13	-0.72	0.646
20.00	-49.48	-39.55	0.00	-3,040.11	0.00	3,040.11	4,080.16	2,040.08	6,769.73	3,343.32	2.01	-0.96	0.626
25.00	-46.96	-38.94	0.00	-2,842.37	0.00	2,842.37	4,007.88	2,003.94	6,472.54	3,196.54	3.14	-1.20	0.606
30.00	-44.47	-38.32	0.00	-2,647.69	0.00	2,647.69	3,933.69	1,966.85	6,178.73	3,051.44	4.53	-1.44	0.584
35.00	-42.03	-37.55	0.00	-2,456.12	0.00	2,456.12	3,854.52	1,927.26	5,883.88	2,905.83	6.16	-1.68	0.561
40.00	-39.69	-37.03	0.00	-2,268.37	0.00	2,268.37	3,744.12	1,872.06	5,549.75	2,740.81	8.05	-1.92	0.542
40.24	-39.51	-36.73	0.00	-2,259.34	0.00	2,259.34	3,739.74	1,869.37	5,533.71	2,732.89	8.15	-1.93	0.541
45.00	-36.46	-36.17	0.00	-2,084.63	0.00	2,084.63	3,633.72	1,816.86	5,225.39	2,580.62	10.19	-2.16	0.515
45.40	-36.16	-35.85	0.00	-2,070.17	0.00	2,070.17	3,063.79	1,531.89	4,506.32	2,225.50	10.37	-2.17	0.574
50.00	-34.12	-35.06	0.00	-1,905.24	0.00	1,905.24	3,008.67	1,504.34	4,302.82	2,125.00	12.57	-2.39	0.545
55.00	-32.00	-34.47	0.00	-1,729.93	0.00	1,729.93	2,946.93	1,473.46	4,084.17	2,017.02	15.20	-2.63	0.512
55.68	-31.67	-34.14	0.00	-1,706.60	0.00	1,706.60	2,938.42	1,469.21	4,054.78	2,002.51	15.58	-2.66	0.508
55.68	-31.67	-34.14	0.00	-1,706.60	0.00	1,706.60	2,938.42	1,469.21	4,054.78	2,002.51	15.58	-2.66	0.864
60.00	-30.15	-33.52	0.00	-1,559.03	0.00	1,559.03	2,883.27	1,441.64	3,868.42	1,910.47	18.08	-2.86	0.827
63.00	-29.05	-33.07	0.00	-1,458.48	0.00	1,458.48	2,844.16	1,422.08	3,740.46	1,847.27	19.96	-3.10	0.800
65.00	-28.44	-32.65	0.00	-1,392.35	0.00	1,392.35	2,808.42	1,404.21	3,643.77	1,799.52	21.29	-3.27	0.784
70.00	-27.09	-32.04	0.00	-1,229.10	0.00	1,229.10	2,713.79	1,356.89	3,400.96	1,679.61	24.92	-3.65	0.742
75.00	-25.79	-31.36	0.00	-1,068.91	0.00	1,068.91	2,619.16	1,309.58	3,166.52	1,563.83	28.94	-4.02	0.694
79.00	-24.44	-30.43	0.00	-943.47	0.00	943.47	2,543.45	1,271.73	2,985.00	1,474.18	32.44	-4.32	0.650
80.00	-24.19	-30.29	0.00	-913.05	0.00	913.05	2,524.53	1,262.26	2,940.46	1,452.18	33.35	-4.39	0.639
80.79	-23.95	-30.00	0.00	-889.04	0.00	889.04	2,509.53	1,254.76	2,905.39	1,434.86	34.09	-4.45	0.630
84.94	-22.60	-29.55	0.00	-764.52	0.00	764.52	1,499.90	749.95	1,728.05	853.42	38.08	-4.73	0.912
85.00	-22.50	-29.31	0.00	-762.86	0.00	762.86	1,499.54	749.77	1,726.89	852.85	38.13	-4.73	0.911
90.00	-17.68	-23.51	0.00	-616.33	0.00	616.33	1,466.64	733.32	1,624.12	802.09	43.33	-5.17	0.781
95.00	-16.82	-22.91	0.00	-498.79	0.00	498.79	1,431.82	715.91	1,522.23	751.77	48.95	-5.57	0.676
100.00	-13.12	-17.76	0.00	-384.26	0.00	384.26	1,395.09	697.54	1,421.47	702.01	54.98	-5.93	0.557
101.00	-12.96	-17.44	0.00	-366.50	0.00	366.50	1,387.51	693.76	1,401.48	692.14	56.22	-5.99	0.539
105.00	-12.41	-16.88	0.00	-296.76	0.00	296.76	1,356.44	678.22	1,322.10	652.93	61.35	-6.24	0.464
110.00	-11.76	-16.47	0.00	-212.38	0.00	212.38	1,315.88	657.94	1,224.36	604.67	68.02	-6.51	0.361
111.00	-9.43	-13.02	0.00	-195.91	0.00	195.91	1,307.54	653.77	1,205.03	595.12	69.39	-6.56	0.337
115.00	-8.98	-12.41	0.00	-143.83	0.00	143.83	1,273.40	636.70	1,128.51	557.33	74.95	-6.73	0.265
120.00	-5.18	-7.11	0.00	-81.76	0.00	81.76	1,215.41	607.71	1,023.37	505.40	82.06	-6.88	0.166
125.00	-4.72	-6.80	0.00	-46.23	0.00	46.23	1,152.33	576.16	919.28	454.00	89.31	-6.99	0.106
125.59	-4.68	-6.66	0.00	-42.20	0.00	42.20	1,144.85	572.43	907.31	448.09	90.18	-7.00	0.098
125.59	-4.68	-6.66	0.00	-42.20	0.00	42.20	385.02	192.51	160.54	106.00	90.18	-7.00	0.411
130.00	-4.34	-6.42	0.00	-12.86	0.00	12.86	385.02	192.51	160.54	106.00	96.65	-7.04	0.134
131.00	-0.58	-0.87	0.00	-6.44	0.00	6.44	385.02	192.51	160.54	106.00	98.12	-7.06	0.062
135.00	-0.38	-0.67	0.00	-2.94	0.00	2.94	385.02	192.51	160.54	106.00	104.03	-7.09	0.029
136.00	-0.34	-0.53	0.00	-2.21	0.00	2.21	385.02	192.51	160.54	106.00	105.52	-7.10	0.022
140.00	-0.10	-0.04	0.00	-0.08	0.00	0.08	385.02	192.51	160.54	106.00	111.45	-7.10	0.001
142.00	0.00	-0.03	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	114.42	-7.10	0.000

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

4/11/2019 1:16:50 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W

93 mph with No Ice (Reduced DL)

25 Iterations

Gust Response Factor :1.10

Wind Importance Factor :1.00

Dead Load Factor :0.90

Wind Load Factor :1.60

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		301.8	0.0					0.0	0.0	301.8	0.0	0.0	0.0
5.00		596.4	949.8					0.0	921.1	596.4	1,871.0	0.0	0.0
10.00		582.0	926.9					0.0	921.1	582.0	1,848.0	0.0	0.0
15.00		576.4	903.9					0.0	921.1	576.4	1,825.1	0.0	0.0
20.00		585.9	881.0					0.0	921.1	585.9	1,802.2	0.0	0.0
25.00		598.4	858.1					0.0	921.1	598.4	1,779.2	0.0	0.0
30.00		666.1	835.1					0.0	921.1	666.1	1,756.3	0.0	0.0
35.00		729.8	812.2					147.2	921.1	877.0	1,733.4	0.0	0.0
40.00		383.0	789.3					151.7	921.1	534.7	1,710.4	0.0	0.0
40.24	Bot - Section 2	371.4	37.9					7.5	44.9	378.9	82.8	0.0	0.0
45.00		383.3	1,367.1					148.2	876.2	531.5	2,243.4	0.0	0.0
45.40	Top - Section 1	369.6	113.2					12.6	73.7	382.2	186.9	0.0	0.0
50.00		706.1	599.3					146.8	847.5	852.9	1,446.8	0.0	0.0
55.00		415.5	632.6					162.8	921.1	578.3	1,553.7	0.0	0.0
55.68	Reinf. Top	361.8	84.1					22.3	124.7	384.1	208.9	0.0	0.0
60.00		527.1	528.8					143.7	536.5	670.8	1,065.3	0.0	0.0
63.00	Appurtenance(s)	332.9	358.3	32.3	0.0	0.0	27.5	101.0	372.3	466.2	758.2	0.0	0.0
65.00		410.4	234.9					0.0	127.7	410.4	362.7	0.0	0.0
70.00		635.9	573.6					0.0	319.3	635.9	892.9	0.0	0.0
75.00		613.5	553.9					139.7	319.3	753.2	873.2	0.0	0.0
79.00	Appurtenance(s)	336.4	429.0	467.6	0.0	0.0	315.0	113.2	255.4	917.2	999.4	0.0	0.0
80.00		119.3	105.3					28.5	63.7	147.8	168.9	0.0	0.0
80.79	Bot - Section 3	329.7	82.9					22.6	50.5	352.3	133.4	0.0	0.0
84.94	Top - Section 2	280.8	716.5					119.3	264.2	400.0	980.7	0.0	0.0
85.00		329.7	3.9					1.6	3.6	331.3	7.5	0.0	0.0
90.00	Appurtenance(s)	590.2	337.7	4,710.0	0.0	0.0	3,206.6	145.3	318.3	5,445.5	3,862.6	0.0	0.0
95.00		520.7	324.6					0.0	257.3	520.7	581.9	0.0	0.0
100.00	Appurtenance(s)	306.8	311.5	4,419.6	0.0	0.0	2,534.5	0.0	257.3	4,726.5	3,103.3	0.0	0.0
101.00	Appurtenance(s)	248.4	60.7	31.7	0.0	0.0	9.0	0.0	41.0	280.1	110.7	0.0	0.0
105.00		438.1	237.6					0.0	163.5	438.1	401.1	0.0	0.0
110.00		296.4	285.3					0.0	204.3	296.4	489.6	0.0	0.0
111.00	Appurtenance(s)	277.6	55.5	2,882.7	0.0	0.0	1,913.4	23.0	40.9	3,183.2	2,009.7	0.0	0.0
115.00		488.0	216.7					92.3	148.7	580.3	365.4	0.0	0.0
120.00	Appurtenance(s)	479.8	259.0	4,227.9	0.0	0.0	2,843.9	116.3	185.8	4,824.1	3,288.8	0.0	0.0
125.00		237.7	245.9					0.0	120.8	237.7	366.7	0.0	0.0
125.59	Top - Section 3	141.5	28.3					0.0	14.3	141.5	42.6	0.0	0.0
130.00		143.5	165.0					52.6	106.5	196.1	271.4	0.0	0.0
131.00	Appurtenance(s)	133.6	37.4	4,896.6	0.0	-5,358.7	3,246.2	12.0	24.2	5,042.2	3,307.8	0.0	0.0
135.00		133.8	149.7					48.2	18.0	182.0	167.7	0.0	0.0
136.00	Appurtenance(s)	80.7	37.4	21.1	0.0	63.3	2.7	12.1	4.5	113.9	44.6	0.0	0.0
140.00	Appurtenance(s)	81.0	149.7	365.4	0.0	-365.4	60.8	0.0	17.7	446.4	228.2	0.0	0.0
142.00		27.1	74.9					0.0	0.0	27.1	74.9	0.0	0.0
Totals:										40,193.3	45,007.0	0.00	0.00

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

4/11/2019 1:16:59 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W

93 mph with No Ice (Reduced DL)

25 Iterations

Gust Response Factor :1.10

Wind importance Factor :1.00

Dead Load Factor :0.90

Wind Load Factor :1.60

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-44.92	-39.98	0.00	-3,721.06	0.00	3,721.06	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.675
5.00	-42.90	-39.56	0.00	-3,521.14	0.00	3,521.14	4,285.51	2,142.75	7,679.11	3,792.42	0.12	-0.23	0.658
10.00	-40.90	-39.13	0.00	-3,323.37	0.00	3,323.37	4,218.97	2,109.49	7,373.27	3,641.38	0.49	-0.46	0.640
15.00	-38.92	-38.69	0.00	-3,127.74	0.00	3,127.74	4,150.52	2,075.26	7,070.06	3,491.64	1.09	-0.69	0.622
20.00	-36.97	-38.23	0.00	-2,934.29	0.00	2,934.29	4,080.16	2,040.08	6,769.73	3,343.32	1.94	-0.92	0.603
25.00	-35.05	-37.74	0.00	-2,743.15	0.00	2,743.15	4,007.88	2,003.94	6,472.54	3,196.54	3.03	-1.16	0.583
30.00	-33.16	-37.17	0.00	-2,554.44	0.00	2,554.44	3,933.69	1,966.85	6,178.73	3,051.44	4.37	-1.39	0.561
35.00	-31.30	-36.38	0.00	-2,368.59	0.00	2,368.59	3,854.52	1,927.26	5,883.88	2,905.83	5.95	-1.62	0.540
40.00	-29.53	-35.85	0.00	-2,186.71	0.00	2,186.71	3,744.12	1,872.06	5,549.75	2,740.81	7.77	-1.85	0.521
40.24	-29.39	-35.53	0.00	-2,177.97	0.00	2,177.97	3,738.74	1,869.37	5,533.71	2,732.89	7.86	-1.86	0.520
45.00	-27.10	-34.98	0.00	-2,008.99	0.00	2,008.99	3,633.72	1,816.86	5,225.39	2,580.62	9.83	-2.08	0.495
45.40	-26.86	-34.64	0.00	-1,995.00	0.00	1,995.00	3,063.79	1,531.89	4,506.32	2,225.50	10.01	-2.10	0.551
50.00	-25.31	-33.83	0.00	-1,835.66	0.00	1,835.66	3,008.67	1,504.34	4,302.82	2,125.00	12.13	-2.30	0.523
55.00	-23.71	-33.24	0.00	-1,666.51	0.00	1,666.51	2,946.93	1,473.46	4,084.17	2,017.02	14.67	-2.53	0.492
55.68	-23.45	-32.89	0.00	-1,644.01	0.00	1,644.01	2,938.42	1,469.21	4,054.78	2,002.51	15.03	-2.57	0.488
55.68	-23.45	-32.89	0.00	-1,644.01	0.00	1,644.01	2,938.42	1,469.21	4,054.78	2,002.51	15.03	-2.57	0.829
60.00	-22.30	-32.26	0.00	-1,501.81	0.00	1,501.81	2,883.27	1,441.64	3,868.42	1,910.47	17.45	-2.76	0.794
63.00	-21.46	-31.83	0.00	-1,405.04	0.00	1,405.04	2,844.16	1,422.08	3,740.46	1,847.27	19.26	-2.99	0.769
65.00	-20.97	-31.49	0.00	-1,341.39	0.00	1,341.39	2,808.42	1,404.21	3,643.77	1,799.52	20.54	-3.15	0.753
70.00	-19.92	-30.94	0.00	-1,183.92	0.00	1,183.92	2,713.79	1,356.89	3,400.96	1,679.61	24.04	-3.52	0.713
75.00	-18.93	-30.23	0.00	-1,029.25	0.00	1,029.25	2,619.16	1,309.58	3,166.52	1,563.83	27.92	-3.88	0.666
79.00	-17.91	-29.30	0.00	-908.31	0.00	908.31	2,543.45	1,271.73	2,985.00	1,474.18	31.29	-4.16	0.624
80.00	-17.72	-29.16	0.00	-879.01	0.00	879.01	2,524.53	1,262.26	2,940.46	1,452.18	32.17	-4.23	0.613
80.79	-17.53	-28.85	0.00	-855.90	0.00	855.90	2,509.53	1,254.76	2,905.39	1,434.86	32.88	-4.29	0.604
84.94	-16.52	-28.42	0.00	-736.13	0.00	736.13	1,499.90	749.95	1,728.05	853.42	36.72	-4.56	0.875
85.00	-16.43	-28.15	0.00	-734.53	0.00	734.53	1,499.54	749.77	1,726.89	852.85	36.78	-4.56	0.874
90.00	-12.87	-22.49	0.00	-593.78	0.00	593.78	1,466.64	733.32	1,624.12	802.09	41.78	-4.98	0.750
95.00	-12.20	-22.00	0.00	-481.33	0.00	481.33	1,431.82	715.91	1,522.23	751.77	47.21	-5.37	0.650
100.00	-9.51	-17.03	0.00	-371.34	0.00	371.34	1,395.09	697.54	1,421.47	702.01	53.01	-5.71	0.536
101.00	9.38	-16.76	0.00	-354.31	0.00	354.31	1,387.51	693.76	1,401.48	692.14	54.21	-5.78	0.519
105.00	-8.96	-16.33	0.00	-287.26	0.00	287.26	1,356.44	678.22	1,322.10	652.93	59.15	-6.02	0.447
110.00	-8.46	-16.00	0.00	-205.63	0.00	205.63	1,315.88	657.94	1,224.36	604.67	65.59	-6.28	0.347
111.00	-6.79	-12.63	0.00	-189.63	0.00	189.63	1,307.54	653.77	1,205.03	595.12	66.91	-6.32	0.324
115.00	-6.46	-12.03	0.00	-139.12	0.00	139.12	1,273.40	636.70	1,128.51	557.33	72.27	-6.49	0.255
120.00	-3.73	-6.87	0.00	-78.97	0.00	78.97	1,215.41	607.71	1,023.37	505.40	79.14	-6.64	0.159
125.00	-3.39	-6.59	0.00	-44.63	0.00	44.63	1,152.33	576.16	919.28	454.00	86.13	-6.74	0.101
125.59	-3.36	-6.45	0.00	-40.73	0.00	40.73	1,144.85	572.43	907.31	448.09	86.96	-6.75	0.094
125.59	-3.36	-6.45	0.00	-40.73	0.00	40.73	385.02	192.51	160.54	106.00	86.96	-6.75	0.394
130.00	-3.11	-6.22	0.00	-12.31	0.00	12.31	385.02	192.51	160.54	106.00	93.20	-6.79	0.125
131.00	-0.42	-0.82	0.00	-6.08	0.00	6.08	385.02	192.51	160.54	106.00	94.63	-6.81	0.058
135.00	-0.28	-0.62	0.00	-2.78	0.00	2.78	385.02	192.51	160.54	106.00	100.33	-6.84	0.027
136.00	-0.24	-0.51	0.00	-2.10	0.00	2.10	385.02	192.51	160.54	106.00	101.76	-6.84	0.020
140.00	-0.07	-0.04	0.00	-0.07	0.00	0.07	385.02	192.51	160.54	106.00	107.48	-6.85	0.001
142.00	0.00	-0.03	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	110.34	-6.85	0.000

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

4/11/2019 1:16:59 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice	24 Iterations
Gust Response Factor :1.10	Ice Dead Load Factor :1.00	Wind Importance Factor :1.00
Dead Load Factor :1.20		Ice Importance 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		68.7	0.0					0.0	0.0	68.7	0.0	0.0	0.0
5.00		136.3	1,604.9					0.0	1,617.4	136.3	3,222.2	0.0	0.0
10.00		133.7	1,605.8					0.0	1,662.9	133.7	3,268.6	0.0	0.0
15.00		133.0	1,585.8					0.0	1,686.4	133.0	3,272.1	0.0	0.0
20.00		135.6	1,558.9					0.0	1,702.7	135.6	3,261.7	0.0	0.0
25.00		138.9	1,528.5					0.0	1,715.5	138.9	3,244.0	0.0	0.0
30.00		141.0	1,495.8					0.0	1,725.9	141.0	3,221.8	0.0	0.0
35.00		142.1	1,461.6					76.6	1,734.9	218.7	3,196.5	0.0	0.0
40.00		74.7	1,426.2					79.7	1,742.7	154.4	3,168.9	0.0	0.0
40.24	Bot - Section 2	72.5	68.9					4.0	85.1	76.5	154.0	0.0	0.0
45.00		74.9	2,180.2					78.6	1,664.5	153.4	3,844.8	0.0	0.0
45.40	Top - Section 1	72.4	181.1					6.7	140.3	79.1	321.4	0.0	0.0
50.00		138.6	1,139.0					78.4	1,615.7	216.9	2,754.7	0.0	0.0
55.00		81.7	1,205.7					87.5	1,761.7	169.1	2,967.4	0.0	0.0
55.68	Reinf. Top	71.3	161.3					12.0	238.9	83.4	400.3	0.0	0.0
60.00		104.1	1,012.0					77.7	1,181.5	181.8	2,193.5	0.0	0.0
63.00	Appurtenance(s)	70.5	688.2	9.6	0.0	0.0	46.8	54.8	822.1	134.9	1,557.1	0.0	0.0
65.00		97.7	452.4					0.0	331.5	97.7	783.8	0.0	0.0
70.00		138.1	1,103.4					0.0	831.1	138.1	1,934.5	0.0	0.0
75.00		122.5	1,068.6					76.6	834.5	199.1	1,903.0	0.0	0.0
79.00	Appurtenance(s)	67.3	830.4	131.0	0.0	0.0	557.6	62.3	669.9	260.6	2,057.9	0.0	0.0
80.00		23.9	204.8					15.7	167.5	39.6	372.3	0.0	0.0
80.79	Bot - Section 3	66.2	161.3					12.5	132.9	78.7	294.2	0.0	0.0
84.94	Top - Section 2	56.4	1,218.8					66.0	697.0	122.3	1,915.8	0.0	0.0
85.00		66.4	8.7					0.9	9.5	67.3	18.2	0.0	0.0
90.00	Appurtenance(s)	129.9	758.0	1,149.1	0.0	0.0	7,056.7	80.7	842.1	1,359.7	8,656.8	0.0	0.0
95.00		126.9	730.8					0.0	573.4	126.9	1,304.2	0.0	0.0
100.00	Appurtenance(s)	75.0	703.5	1,138.4	0.0	0.0	5,899.1	0.0	574.9	1,213.4	7,177.6	0.0	0.0
101.00	Appurtenance(s)	61.0	138.3	9.6	0.0	0.0	31.7	0.0	101.2	70.6	271.2	0.0	0.0
105.00		108.0	539.5					0.0	404.8	108.0	944.3	0.0	0.0
110.00		70.9	648.3					0.0	507.3	70.9	1,155.6	0.0	0.0
111.00	Appurtenance(s)	57.5	127.3	709.2	0.0	0.0	4,491.2	12.9	101.6	779.7	4,720.1	0.0	0.0
115.00		101.5	495.1					52.0	387.3	153.5	882.4	0.0	0.0
120.00	Appurtenance(s)	109.4	592.4	1,065.4	0.0	0.0	6,267.7	65.8	485.4	1,240.6	7,345.5	0.0	0.0
125.00		60.0	564.3					0.0	288.6	60.0	852.9	0.0	0.0
125.59	Top - Section 3	34.1	65.6					0.0	34.3	34.1	99.9	0.0	0.0
130.00		34.2	335.2					35.5	255.0	70.7	590.2	0.0	0.0
131.00	Appurtenance(s)	31.9	76.1	1,243.4	0.0	-1,342.9	7,466.1	8.3	57.9	1,283.6	7,600.1	0.0	0.0
135.00		31.9	304.7					33.5	127.1	65.4	431.8	0.0	0.0
136.00	Appurtenance(s)	32.2	76.2	12.9	0.0	38.6	15.3	8.4	31.8	53.4	123.4	0.0	0.0
140.00	Appurtenance(s)	38.7	305.1	81.8	0.0	-81.8	345.8	0.0	110.1	120.4	761.1	0.0	0.0
142.00		12.9	152.7					0.0	0.0	12.9	152.7	0.0	0.0
Totals:										10,182.7	92,398.3	0.00	0.00

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

4/11/2019 1:17:07 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

24 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Wind Importance Factor :1.00

Dead Load Factor :1.20

Ice Importance Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-92.39	-10.16	0.00	-1,001.94	0.00	1,001.94	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.196
5.00	-89.16	-10.12	0.00	-951.12	0.00	951.12	4,285.51	2,142.75	7,679.11	3,792.42	0.03	-0.06	0.191
10.00	-85.88	-10.08	0.00	-900.51	0.00	900.51	4,218.97	2,109.49	7,373.27	3,641.38	0.13	-0.12	0.187
15.00	-82.60	-10.03	0.00	-850.13	0.00	850.13	4,150.52	2,075.26	7,070.06	3,491.64	0.30	-0.19	0.182
20.00	-79.33	-9.97	0.00	-800.00	0.00	800.00	4,080.16	2,040.08	6,769.73	3,343.32	0.52	-0.25	0.177
25.00	-76.07	-9.90	0.00	-750.17	0.00	750.17	4,007.88	2,003.94	6,472.54	3,196.54	0.82	-0.31	0.171
30.00	-72.84	-9.82	0.00	-700.69	0.00	700.69	3,933.69	1,966.85	6,178.73	3,051.44	1.18	-0.38	0.166
35.00	-69.63	-9.65	0.00	-651.61	0.00	651.61	3,854.52	1,927.26	5,883.88	2,905.83	1.61	-0.44	0.160
40.00	-66.46	-9.51	0.00	-603.35	0.00	603.35	3,744.12	1,872.06	5,549.75	2,740.81	2.11	-0.50	0.155
40.24	-66.30	-9.47	0.00	-601.03	0.00	601.03	3,738.74	1,869.37	5,533.71	2,732.89	2.14	-0.51	0.155
45.00	-62.45	-9.31	0.00	-556.00	0.00	556.00	3,633.72	1,816.86	5,225.39	2,580.62	2.67	-0.57	0.148
45.40	-62.13	-9.27	0.00	-552.27	0.00	552.27	3,063.79	1,531.89	4,506.32	2,225.50	2.72	-0.57	0.165
50.00	-59.37	-9.08	0.00	-509.65	0.00	509.65	3,008.67	1,504.34	4,302.82	2,125.00	3.30	-0.63	0.157
55.00	-56.40	-8.92	0.00	-464.23	0.00	464.23	2,946.93	1,473.46	4,084.17	2,017.02	3.99	-0.69	0.148
55.68	-55.99	-8.86	0.00	-458.20	0.00	458.20	2,938.42	1,469.21	4,054.78	2,002.51	4.09	-0.70	0.147
55.68	-55.99	-8.86	0.00	-458.20	0.00	458.20	2,938.42	1,469.21	4,054.78	2,002.51	4.09	-0.70	0.248
60.00	-53.79	-8.71	0.00	-419.90	0.00	419.90	2,883.27	1,441.64	3,868.42	1,910.47	4.76	-0.76	0.238
63.00	-52.23	-8.60	0.00	-393.79	0.00	393.79	2,844.16	1,422.08	3,740.46	1,847.27	5.25	-0.82	0.232
65.00	-51.43	-8.56	0.00	-376.59	0.00	376.59	2,808.42	1,404.21	3,643.77	1,799.52	5.61	-0.87	0.228
70.00	-49.49	-8.48	0.00	-333.82	0.00	333.82	2,713.79	1,356.89	3,400.96	1,679.61	6.57	-0.97	0.217
75.00	-47.58	-8.32	0.00	-291.44	0.00	291.44	2,619.16	1,309.58	3,166.52	1,563.83	7.64	-1.07	0.205
79.00	-45.52	-8.06	0.00	-258.17	0.00	258.17	2,543.45	1,271.73	2,985.00	1,474.18	8.57	-1.15	0.193
80.00	-45.14	-8.02	0.00	-250.11	0.00	250.11	2,524.53	1,262.26	2,940.46	1,452.18	8.82	-1.17	0.190
80.79	-44.84	-7.98	0.00	-243.75	0.00	243.75	2,509.53	1,254.76	2,905.39	1,434.86	9.01	-1.19	0.188
84.94	-42.93	-7.84	0.00	-210.65	0.00	210.65	1,499.90	749.95	1,728.05	853.42	10.08	-1.27	0.276
85.00	-42.90	-7.82	0.00	-210.21	0.00	210.21	1,499.54	749.77	1,726.89	852.85	10.10	-1.27	0.275
90.00	-34.26	-6.33	0.00	-171.10	0.00	171.10	1,466.64	733.32	1,624.12	802.09	11.49	-1.39	0.237
95.00	-32.95	-6.23	0.00	-139.45	0.00	139.45	1,431.82	715.91	1,522.23	751.77	13.00	-1.50	0.209
100.00	-25.81	-4.85	0.00	-108.30	0.00	108.30	1,395.09	697.54	1,421.47	702.01	14.63	-1.60	0.173
101.00	-25.53	-4.79	0.00	-103.45	0.00	103.45	1,387.51	693.76	1,401.48	692.14	14.97	-1.62	0.168
105.00	-24.59	-4.69	0.00	-84.28	0.00	84.28	1,356.44	678.22	1,322.10	652.93	16.35	-1.69	0.147
110.00	-23.43	-4.60	0.00	-60.84	0.00	60.84	1,315.88	657.94	1,224.36	604.67	18.16	-1.76	0.118
111.00	-18.73	-3.69	0.00	-56.24	0.00	56.24	1,307.54	653.77	1,205.03	595.12	18.53	-1.78	0.109
115.00	-17.85	-3.52	0.00	-41.50	0.00	41.50	1,273.40	636.70	1,128.51	557.33	20.04	-1.83	0.089
120.00	-10.55	-2.05	0.00	-23.90	0.00	23.90	1,215.41	607.71	1,023.37	505.40	21.98	-1.87	0.056
125.00	-9.70	-1.96	0.00	-13.66	0.00	13.66	1,152.33	576.16	919.28	454.00	23.96	-1.90	0.039
125.59	-9.60	-1.93	0.00	-12.49	0.00	12.49	1,144.85	572.43	907.31	448.09	24.20	-1.90	0.036
125.59	-9.60	-1.93	0.00	-12.49	0.00	12.49	385.02	192.51	160.54	106.00	24.20	-1.90	0.143
130.00	-9.01	-1.84	0.00	-4.00	0.00	4.00	385.02	192.51	160.54	106.00	25.96	-1.92	0.061
131.00	-1.46	-0.30	0.00	-2.16	0.00	2.16	385.02	192.51	160.54	106.00	26.36	-1.92	0.024
135.00	-1.03	-0.22	0.00	-0.95	0.00	0.95	385.02	192.51	160.54	106.00	27.98	-1.93	0.012
136.00	-0.91	-0.16	0.00	-0.69	0.00	0.69	385.02	192.51	160.54	106.00	28.39	-1.94	0.009
140.00	-0.15	-0.02	0.00	-0.04	0.00	0.04	385.02	192.51	160.54	106.00	30.01	-1.94	0.001
142.00	0.00	-0.01	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	30.82	-1.94	0.000

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

4/11/2019 1:17:07 PM

Customer: AT&T MOBILITY

Load Case: 1.0D + 1.0W	Serviceability 60 mph	24 Iterations
Gust Response Factor :1.10		Wind Importance Factor :1.00
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		78.5	0.0					0.0	0.0	78.5	0.0	0.0	0.0
5.00		155.1	1,055.3					0.0	1,023.5	155.1	2,078.8	0.0	0.0
10.00		151.4	1,029.9					0.0	1,023.5	151.4	2,053.4	0.0	0.0
15.00		149.9	1,004.4					0.0	1,023.5	149.9	2,027.9	0.0	0.0
20.00		152.4	978.9					0.0	1,023.5	152.4	2,002.4	0.0	0.0
25.00		155.7	953.4					0.0	1,023.5	155.7	1,976.9	0.0	0.0
30.00		173.3	927.9					0.0	1,023.5	173.3	1,951.4	0.0	0.0
35.00		189.9	902.4					38.3	1,023.5	228.1	1,925.9	0.0	0.0
40.00		99.6	877.0					39.5	1,023.5	139.1	1,900.5	0.0	0.0
40.24	Bot - Section 2	96.6	42.1					2.0	49.9	98.6	92.0	0.0	0.0
45.00		99.7	1,519.0					38.6	973.6	138.3	2,492.6	0.0	0.0
45.40	Top - Section 1	96.1	125.8					3.3	81.9	99.4	207.7	0.0	0.0
50.00		183.7	665.9					38.2	941.6	221.9	1,607.5	0.0	0.0
55.00		108.1	702.9					42.4	1,023.5	150.4	1,726.3	0.0	0.0
55.68	Reinf. Top	94.1	93.5					5.8	138.6	99.9	232.1	0.0	0.0
60.00		137.1	587.5					37.4	596.1	174.5	1,183.7	0.0	0.0
63.00	Appurtenance(s)	86.6	398.1	8.4	0.0	0.0	30.6	26.3	413.7	121.3	842.4	0.0	0.0
65.00		106.8	261.0					0.0	141.9	106.8	402.9	0.0	0.0
70.00		165.4	637.3					0.0	354.7	165.4	992.1	0.0	0.0
75.00		159.6	615.5					36.3	354.7	195.9	970.2	0.0	0.0
79.00	Appurtenance(s)	87.5	476.7	121.6	0.0	0.0	350.0	29.4	283.8	238.6	1,110.5	0.0	0.0
80.00		31.0	117.0					7.4	70.7	38.4	187.7	0.0	0.0
80.79	Bot - Section 3	85.8	92.1					5.9	56.1	91.6	148.2	0.0	0.0
84.94	Top - Section 2	73.0	796.1					31.0	293.6	104.1	1,089.7	0.0	0.0
85.00		85.8	4.3					0.4	4.0	86.2	8.3	0.0	0.0
90.00	Appurtenance(s)	153.5	375.2	1,225.3	0.0	0.0	3,562.9	37.8	353.6	1,416.6	4,291.7	0.0	0.0
95.00		135.5	360.6					0.0	285.9	135.5	646.5	0.0	0.0
100.00	Appurtenance(s)	79.8	346.1	1,149.8	0.0	0.0	2,816.1	0.0	285.9	1,229.6	3,448.1	0.0	0.0
101.00	Appurtenance(s)	64.6	67.5	8.2	0.0	0.0	10.0	0.0	45.6	72.9	123.0	0.0	0.0
105.00		114.0	264.0					0.0	181.6	114.0	445.7	0.0	0.0
110.00		77.1	316.9					0.0	227.0	77.1	544.0	0.0	0.0
111.00	Appurtenance(s)	72.2	61.6	749.9	0.0	0.0	2,126.0	6.0	45.4	828.1	2,233.1	0.0	0.0
115.00		126.9	240.7					24.0	165.2	151.0	405.9	0.0	0.0
120.00	Appurtenance(s)	124.8	287.8	1,099.9	0.0	0.0	3,159.9	30.3	206.5	1,255.0	3,654.2	0.0	0.0
125.00		61.8	273.3					0.0	134.2	61.8	407.5	0.0	0.0
125.59	Top - Section 3	36.8	31.4					0.0	15.9	36.8	47.3	0.0	0.0
130.00		37.3	183.3					13.7	118.3	51.0	301.6	0.0	0.0
131.00	Appurtenance(s)	34.8	41.6	1,273.8	0.0	-1,394.1	3,606.9	3.1	26.8	1,311.7	3,675.3	0.0	0.0
135.00		34.8	166.4					12.5	20.0	47.3	186.4	0.0	0.0
136.00	Appurtenance(s)	21.3	41.6	5.5	0.0	16.5	3.0	3.1	5.0	30.0	49.6	0.0	0.0
140.00	Appurtenance(s)	21.5	166.4	95.1	0.0	-95.1	67.5	0.0	19.7	116.6	253.5	0.0	0.0
142.00		7.2	83.2					0.0	0.0	7.2	83.2	0.0	0.0
Totals:										10,457.0	50,007.8	0.00	0.00

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

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Customer: AT&T MOBILITY

Load Case: 1.0D + 1.0W

Serviceability 60 mph

24 Iterations

Gust Response Factor :1.10

Wind Importance Factor :1.00

Dead Load Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-50.00	-10.40	0.00	-973.57	0.00	973.57	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.183
5.00	-47.91	-10.30	0.00	-921.55	0.00	921.55	4,285.51	2,142.75	7,679.11	3,792.42	0.03	-0.06	0.179
10.00	-45.85	-10.19	0.00	-870.05	0.00	870.05	4,218.97	2,109.49	7,373.27	3,641.38	0.13	-0.12	0.174
15.00	-43.81	-10.08	0.00	-819.09	0.00	819.09	4,150.52	2,075.26	7,070.06	3,491.64	0.29	-0.18	0.169
20.00	-41.80	-9.97	0.00	-768.67	0.00	768.67	4,080.16	2,040.08	6,769.73	3,343.32	0.51	-0.24	0.164
25.00	-39.81	-9.85	0.00	-718.83	0.00	718.83	4,007.88	2,003.94	6,472.54	3,196.54	0.79	-0.30	0.158
30.00	-37.85	-9.70	0.00	-669.60	0.00	669.60	3,933.69	1,966.85	6,178.73	3,051.44	1.14	-0.36	0.153
35.00	-35.92	-9.50	0.00	-621.10	0.00	621.10	3,854.52	1,927.26	5,883.88	2,905.83	1.56	-0.42	0.147
40.00	-34.01	-9.36	0.00	-573.61	0.00	573.61	3,744.12	1,872.06	5,549.75	2,740.81	2.03	-0.48	0.142
40.24	-33.92	-9.28	0.00	-571.33	0.00	571.33	3,739.74	1,869.37	5,533.71	2,732.99	2.06	-0.49	0.141
45.00	-31.42	-9.14	0.00	-527.19	0.00	527.19	3,633.72	1,816.86	5,225.39	2,580.62	2.57	-0.54	0.135
45.40	-31.21	-9.05	0.00	-523.53	0.00	523.53	3,063.79	1,531.89	4,506.32	2,225.50	2.62	-0.55	0.150
50.00	-29.59	-8.84	0.00	-481.89	0.00	481.89	3,008.67	1,504.34	4,302.82	2,125.00	3.18	-0.60	0.142
55.00	-27.86	-8.69	0.00	-437.68	0.00	437.68	2,946.93	1,473.46	4,084.17	2,017.02	3.84	-0.66	0.134
55.68	-27.63	-8.60	0.00	-431.79	0.00	431.79	2,938.42	1,469.21	4,054.78	2,002.51	3.94	-0.67	0.133
55.68	-27.63	-8.60	0.00	-431.79	0.00	431.79	2,938.42	1,469.21	4,054.78	2,002.51	3.94	-0.67	0.225
60.00	-26.44	-8.44	0.00	-394.61	0.00	394.61	2,883.27	1,441.64	3,868.42	1,910.47	4.57	-0.72	0.216
63.00	-25.59	-8.33	0.00	-369.29	0.00	369.29	2,844.16	1,422.08	3,740.46	1,847.27	5.05	-0.78	0.209
65.00	-25.18	-8.25	0.00	-352.63	0.00	352.63	2,808.42	1,404.21	3,643.77	1,799.52	5.38	-0.83	0.205
70.00	-24.18	-8.11	0.00	-311.39	0.00	311.39	2,713.79	1,356.89	3,400.96	1,679.61	6.30	-0.92	0.194
75.00	-23.20	-7.93	0.00	-270.85	0.00	270.85	2,619.16	1,309.58	3,166.52	1,563.83	7.32	-1.02	0.182
79.00	-22.09	-7.69	0.00	-239.14	0.00	239.14	2,543.45	1,271.73	2,985.00	1,474.18	8.20	-1.09	0.171
80.00	-21.90	-7.65	0.00	-231.45	0.00	231.45	2,524.53	1,262.26	2,940.46	1,452.18	8.44	-1.11	0.168
80.79	-21.75	-7.57	0.00	-225.38	0.00	225.38	2,509.53	1,254.76	2,905.39	1,434.86	8.62	-1.13	0.166
84.94	-20.65	-7.46	0.00	-193.94	0.00	193.94	1,499.90	749.95	1,728.05	853.42	9.63	-1.20	0.241
85.00	-20.64	-7.40	0.00	-193.52	0.00	193.52	1,499.54	749.77	1,726.89	852.85	9.65	-1.20	0.241
90.00	-16.37	-5.92	0.00	-156.54	0.00	156.54	1,466.64	733.32	1,624.12	802.09	10.96	-1.31	0.206
95.00	-15.72	-5.79	0.00	-126.96	0.00	126.96	1,431.82	715.91	1,522.23	751.77	12.39	-1.41	0.180
100.00	-12.30	-4.49	0.00	-98.01	0.00	98.01	1,395.09	697.54	1,421.47	702.01	13.92	-1.50	0.148
101.00	-12.17	-4.42	0.00	-93.52	0.00	93.52	1,387.51	693.76	1,401.48	692.14	14.23	-1.52	0.144
105.00	-11.72	-4.31	0.00	-75.85	0.00	75.85	1,356.44	678.22	1,322.10	652.93	15.53	-1.58	0.125
110.00	-11.18	-4.22	0.00	-54.32	0.00	54.32	1,315.88	657.94	1,224.36	604.67	17.23	-1.65	0.098
111.00	-8.97	-3.33	0.00	-50.09	0.00	50.09	1,307.54	653.77	1,205.03	595.12	17.57	-1.66	0.091
115.00	-8.57	-3.18	0.00	-36.76	0.00	36.76	1,273.40	636.70	1,128.51	557.33	18.99	-1.71	0.073
120.00	-4.95	-1.82	0.00	-20.88	0.00	20.88	1,215.41	607.71	1,023.37	505.40	20.80	-1.75	0.045
125.00	-4.55	-1.74	0.00	-11.80	0.00	11.80	1,152.33	576.16	919.28	454.00	22.64	-1.77	0.030
125.59	-4.50	-1.70	0.00	-10.77	0.00	10.77	1,144.85	572.43	907.31	448.09	22.86	-1.77	0.028
125.59	-4.50	-1.70	0.00	-10.77	0.00	10.77	385.02	192.51	160.54	106.00	22.86	-1.77	0.113
130.00	-4.20	-1.64	0.00	-3.26	0.00	3.26	385.02	192.51	160.54	106.00	24.50	-1.79	0.042
131.00	-0.57	-0.22	0.00	-1.61	0.00	1.61	385.02	192.51	160.54	106.00	24.88	-1.79	0.017
135.00	-0.38	-0.17	0.00	-0.74	0.00	0.74	385.02	192.51	160.54	106.00	26.38	-1.80	0.008
136.00	-0.33	-0.13	0.00	-0.56	0.00	0.56	385.02	192.51	160.54	106.00	26.76	-1.80	0.006
140.00	-0.08	-0.01	0.00	-0.02	0.00	0.02	385.02	192.51	160.54	106.00	28.27	-1.80	0.000
142.00	0.00	-0.01	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	29.02	-1.80	0.000

Site Number: 302511

Code: ANSI/TIA-222-G

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

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Customer: AT&T MOBILITY

Equivalent Lateral Forces Method Analysis

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

Spectral Response Acceleration for Short Period ($S_{0.2}$):	0.23
Spectral Response Acceleration at 1.0 Second Period ($S_{1.0}$):	0.07
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.24
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.11
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s :	0.03
Lower Limit C_s :	0.03
Period based on Rayleigh Method (sec):	2.29
Redundancy Factor (ρ):	1.30
Seismic Force Distribution Exponent (k):	1.89
Total Unfactored Dead Load:	50.01 k
Seismic Base Shear (E):	2.03 k

Load Case (1.2 + 0.2Sds) * DL + E ELFM

Seismic Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
41	141.00	83	979	0.005	10	104
40	138.00	186	2,103	0.011	22	232
39	135.50	47	500	0.003	5	58
38	133.00	186	1,964	0.010	21	233
37	130.50	68	696	0.004	7	85
36	127.80	302	2,947	0.015	31	376
35	125.30	47	446	0.002	5	59
34	122.50	407	3,675	0.019	39	509
33	117.50	494	4,120	0.021	43	617
32	113.00	406	3,142	0.016	33	507
31	110.50	107	794	0.004	8	134
30	107.50	544	3,831	0.020	40	679
29	103.00	446	2,894	0.015	30	556
28	100.50	113	701	0.004	7	141
27	97.50	632	3,699	0.019	39	789
26	92.50	647	3,425	0.018	36	807
25	87.50	729	3,475	0.018	37	910
24	84.97	8	37	0.000	0	10
23	82.87	1,090	4,687	0.024	49	1,360
22	80.40	148	602	0.003	6	185
21	79.50	188	746	0.004	8	234
20	77.00	760	2,846	0.015	30	949
19	72.50	970	3,240	0.017	34	1,211

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

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Customer: AT&T MOBILITY

18	67.50	992	2,894	0.015	30	1,238
17	64.00	403	1,062	0.006	11	503
16	61.50	812	1,985	0.010	21	1,013
15	57.84	1,184	2,577	0.013	27	1,477
14	55.34	232	465	0.002	5	290
13	52.50	1,726	3,128	0.016	33	2,155
12	47.70	1,608	2,429	0.013	26	2,007
11	45.20	208	283	0.001	3	259
10	42.62	2,493	3,043	0.016	32	3,111
9	40.12	92	100	0.001	1	115
8	37.50	1,900	1,821	0.009	19	2,372
7	32.50	1,926	1,407	0.007	15	2,404
6	27.50	1,951	1,039	0.005	11	2,436
5	22.50	1,977	720	0.004	8	2,468
4	17.50	2,002	453	0.002	5	2,499
3	12.50	2,028	242	0.001	3	2,531
2	7.50	2,053	93	0.000	1	2,563
1	2.50	2,079	12	0.000	0	2,595
Kathrein Scala 742-2	140.00	68	784	0.004	8	84
Generic RCU (Remote	136.00	3	33	0.000	0	4
Powerwave Allgon 702	131.00	26	270	0.001	3	33
Kaelus DBC0061F1V51-	131.00	76	783	0.004	8	95
Raycap DC6-48-60-0-8	131.00	16	164	0.001	2	20
Powerwave Allgon LGP	131.00	85	866	0.004	9	106
Raycap DC6-48-60-18-	131.00	64	651	0.003	7	79
Ericsson RRUS 8843 B	131.00	216	2,212	0.011	23	270
Ericsson RRUS 4449 B	131.00	213	2,181	0.011	23	266
Ericsson RRUS 32 B30	131.00	180	1,843	0.010	19	225
Powerwave Allgon 777	131.00	105	1,075	0.006	11	131
Quintel QS66512-2	131.00	333	3,410	0.018	36	416
Kathrein Scala 80010	131.00	293	2,998	0.016	32	365
Flat Platform w/ Han	131.00	2,000	20,481	0.106	215	2,496
DragonWave Horizon C	120.00	21	184	0.001	2	26
Alcatel-Lucent RRH2x	120.00	159	1,376	0.007	14	198
NextNet BTS-2500	120.00	105	911	0.005	10	131
Alcatel-Lucent 800 M	120.00	192	1,665	0.009	18	240
Nokia 2.5G MAA - AAH	120.00	311	2,696	0.014	28	388
Argus LLPX310R	120.00	86	744	0.004	8	107
DragonWave A-ANT-18G	120.00	54	470	0.002	5	68
Commscope NNVV-65B-R	120.00	232	2,014	0.010	21	290
Flat Platform w/ Han	120.00	2,000	17,346	0.090	182	2,496
Decibel DB844G90A-XY	111.00	126	943	0.005	10	157
Flat Platform w/ Han	111.00	2,000	14,965	0.077	157	2,496
Generic GPS	101.00	10	63	0.000	1	12
RFS FD9R6004/1C-3L	100.00	19	114	0.001	1	23
Alcatel-Lucent RRH2x	100.00	170	1,044	0.005	11	212
Alcatel-Lucent B66A	100.00	201	1,234	0.006	13	251
Ryma MGD3-800TX	100.00	46	284	0.001	3	58
Commscope RC2DC-3315	100.00	64	393	0.002	4	80
Antel BXA-70080/6CF_	100.00	54	332	0.002	3	67
Commscope NHH-65B-R2	100.00	262	1,610	0.008	17	327
Flat Platform w/ Han	100.00	2,000	12,281	0.064	129	2,496
RFS ATMAA1412D-1A20	90.00	52	262	0.001	3	65
Ericsson Radio 4449	90.00	222	1,117	0.006	12	277
Ericsson AIR 21, 1.3	90.00	332	1,670	0.009	18	414
Ericsson AIR 32 B2A/	90.00	573	2,883	0.015	30	715
RFS APXVAARR24_43-U-	90.00	384	1,930	0.010	20	479
Flat Platform w/ Han	90.00	2,000	10,059	0.052	106	2,496
Generic 6' Omni	79.00	50	196	0.001	2	62
Round Side Arm	79.00	300	1,179	0.006	12	374
PCTEL GPS-TMG-HR-26N	63.00	1	2	0.000	0	1
Stand-Off	63.00	30	77	0.000	1	37
		50,008	193,104	1.000	2,030	62,420

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

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Customer: AT&T MOBILITY

Load Case (0.9 - 0.2Sds) * DL + E ELFM Seismic (Reduced DL) Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
41	141.00	83	979	0.005	10	71
40	138.00	186	2,103	0.011	22	158
39	135.50	47	509	0.003	5	40
38	133.00	186	1,964	0.010	21	159
37	130.50	68	696	0.004	7	58
36	127.80	302	2,947	0.015	31	257
35	125.30	47	446	0.002	5	40
34	122.50	407	3,675	0.019	39	347
33	117.50	494	4,120	0.021	43	421
32	113.00	406	3,142	0.016	33	346
31	110.50	107	794	0.004	8	91
30	107.50	544	3,831	0.020	40	463
29	103.00	446	2,894	0.015	30	380
28	100.50	113	701	0.004	7	96
27	97.50	632	3,699	0.019	39	538
26	92.50	647	3,425	0.018	36	551
25	87.50	729	3,475	0.018	37	621
24	84.97	8	37	0.000	0	7
23	82.87	1,090	4,687	0.024	49	928
22	80.40	148	602	0.003	6	126
21	79.50	188	746	0.004	8	160
20	77.00	760	2,846	0.015	30	648
19	72.50	970	3,240	0.017	34	826
18	67.50	992	2,894	0.015	30	845
17	64.00	403	1,062	0.006	11	343
16	61.50	812	1,995	0.010	21	691
15	57.84	1,184	2,577	0.013	27	1,008
14	55.34	232	465	0.002	5	198
13	52.50	1,726	3,128	0.016	33	1,470
12	47.70	1,608	2,429	0.013	26	1,369
11	45.20	208	283	0.001	3	177
10	42.62	2,493	3,043	0.016	32	2,123
9	40.12	92	100	0.001	1	78
8	37.50	1,900	1,821	0.009	19	1,619
7	32.50	1,926	1,407	0.007	15	1,640
6	27.50	1,951	1,039	0.005	11	1,662
5	22.50	1,977	720	0.004	8	1,684
4	17.50	2,002	453	0.002	5	1,706
3	12.50	2,028	242	0.001	3	1,727
2	7.50	2,053	93	0.000	1	1,749
1	2.50	2,079	12	0.000	0	1,771
Kathrein Scala 742-2	140.00	68	784	0.004	8	57
Generic RCU (Remote	136.00	3	33	0.000	0	3
Powerwave Allgon 702	131.00	26	270	0.001	3	22
Kaelus DBC0061F1V51-	131.00	76	783	0.004	8	65
Raycap DC6-48-60-0-8	131.00	16	164	0.001	2	14
Powerwave Allgon LGP	131.00	85	866	0.004	9	72
Raycap DC6-48-60-18-	131.00	64	651	0.003	7	54
Ericsson RRUS 8843 B	131.00	216	2,212	0.011	23	184
Ericsson RRUS 4449 B	131.00	213	2,181	0.011	23	181
Ericsson RRUS 32 B30	131.00	180	1,843	0.010	19	153
Powerwave Allgon 777	131.00	105	1,075	0.006	11	89
Quintel QS66512-2	131.00	333	3,410	0.018	36	284
Kathrein Scala 80010	131.00	293	2,998	0.016	32	249
Flat Platform w/ Han	131.00	2,000	20,481	0.106	215	1,704
DragonWave Horizon C	120.00	21	184	0.001	2	18
Alcatel-Lucent RRH2x	120.00	159	1,376	0.007	14	135

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

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Customer: AT&T MOBILITY

NextNet BTS-2500	120.00	105	911	0.005	10	89
Alcatel-Lucent 800 M	120.00	192	1,665	0.009	18	164
Nokia 2.5G MAA - AAH	120.00	311	2,696	0.014	28	265
Argus LLPX310R	120.00	86	744	0.004	8	73
DragonWave A-ANT-18G	120.00	54	470	0.002	5	46
Commscope NNVV-65B-R	120.00	232	2,014	0.010	21	198
Flat Platform w/ Han	120.00	2,000	17,346	0.090	182	1,704
Decibel DB844G90A-XY	111.00	126	943	0.005	10	107
Flat Platform w/ Han	111.00	2,000	14,965	0.077	157	1,704
Generic GPS	101.00	10	63	0.000	1	9
RFS FD9R6004/1C-3L	100.00	19	114	0.001	1	16
Alcatel-Lucent RRH2x	100.00	170	1,044	0.005	11	145
Alcatel-Lucent B66A	100.00	201	1,234	0.006	13	171
Ryma MGD3-800TX	100.00	46	284	0.001	3	39
Commscope RC2DC-3315	100.00	64	393	0.002	4	55
Antel BXA-70080/6CF_	100.00	54	332	0.002	3	46
Commscope NHH-65B-R2	100.00	262	1,610	0.008	17	223
Flat Platform w/ Han	100.00	2,000	12,281	0.064	129	1,704
RFS ATMAA1412D-1A20	90.00	52	262	0.001	3	44
Ericsson Radio 4449	90.00	222	1,117	0.006	12	189
Ericsson AIR 21, 1.3	90.00	332	1,670	0.009	18	283
Ericsson AIR 32 B2A/	90.00	573	2,883	0.015	30	488
RFS APXVAARR24 43-U-	90.00	384	1,930	0.010	20	327
Flat Platform w/ Han	90.00	2,000	10,059	0.052	106	1,704
Generic 6' Omni	79.00	50	196	0.001	2	43
Round Side Arm	79.00	300	1,179	0.006	12	256
PCTEL GPS-TMG-HR-26N	63.00	1	2	0.000	0	1
Stand-Off	63.00	30	77	0.000	1	26
		50,008	193,104	1.000	2,030	42,596

Site Number: 302511

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Site Name: WSPT - South, CT

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Customer: AT&T MOBILITY

Load Case (1.2 + 0.2Sds) * DL + E ELLFM Seismic Equivalent Lateral Forces Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-59.83	-2.04	0.00	-219.26	0.00	219.26	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.050
5.00	-57.26	-2.05	0.00	-209.08	0.00	209.08	4,285.51	2,142.75	7,679.11	3,792.42	0.01	-0.01	0.049
10.00	-54.73	-2.06	0.00	-198.83	0.00	198.83	4,218.97	2,109.49	7,373.27	3,641.38	0.03	-0.03	0.048
15.00	-52.23	-2.07	0.00	-188.53	0.00	188.53	4,150.52	2,075.26	7,070.06	3,491.64	0.06	-0.04	0.046
20.00	-49.76	-2.07	0.00	-178.21	0.00	178.21	4,080.16	2,040.08	6,769.73	3,343.32	0.12	-0.06	0.045
25.00	-47.33	-2.07	0.00	-167.86	0.00	167.86	4,007.88	2,003.94	6,472.54	3,196.54	0.18	-0.07	0.044
30.00	-44.92	-2.06	0.00	-157.53	0.00	157.53	3,933.69	1,966.85	6,178.73	3,051.44	0.26	-0.08	0.043
35.00	-42.55	-2.05	0.00	-147.23	0.00	147.23	3,854.52	1,927.26	5,883.88	2,905.83	0.36	-0.10	0.041
40.00	-42.43	-2.05	0.00	-137.00	0.00	137.00	3,744.12	1,872.06	5,549.75	2,740.81	0.47	-0.11	0.040
40.24	-39.32	-2.02	0.00	-136.50	0.00	136.50	3,738.74	1,869.37	5,533.71	2,732.89	0.47	-0.11	0.040
45.00	-39.06	-2.02	0.00	-126.90	0.00	126.90	3,633.72	1,816.86	5,225.39	2,580.62	0.59	-0.13	0.039
45.40	-37.06	-1.99	0.00	-126.09	0.00	126.09	3,063.79	1,531.89	4,506.32	2,225.50	0.60	-0.13	0.043
50.00	-34.90	-1.97	0.00	-116.91	0.00	116.91	3,008.67	1,504.34	4,302.82	2,125.00	0.73	-0.14	0.041
55.00	-34.61	-1.96	0.00	-107.09	0.00	107.09	2,946.93	1,473.46	4,084.17	2,017.02	0.89	-0.16	0.039
55.68	-33.13	-1.94	0.00	-105.76	0.00	105.76	2,938.42	1,469.21	4,054.78	2,002.51	0.91	-0.16	0.039
55.68	-33.13	-1.94	0.00	-105.76	0.00	105.76	2,938.42	1,469.21	4,054.78	2,002.51	0.91	-0.16	0.064
60.00	-32.12	-1.92	0.00	-97.38	0.00	97.38	2,883.27	1,441.64	3,868.42	1,910.47	1.06	-0.17	0.062
63.00	-31.58	-1.92	0.00	-91.61	0.00	91.61	2,844.16	1,422.08	3,740.46	1,847.27	1.17	-0.19	0.061
65.00	-30.34	-1.89	0.00	-87.78	0.00	87.78	2,808.42	1,404.21	3,643.77	1,799.52	1.25	-0.20	0.060
70.00	-29.13	-1.86	0.00	-78.34	0.00	78.34	2,713.79	1,356.89	3,400.96	1,679.61	1.47	-0.22	0.057
75.00	-28.18	-1.84	0.00	-69.02	0.00	69.02	2,619.16	1,309.58	3,166.52	1,563.83	1.71	-0.24	0.055
79.00	-27.51	-1.82	0.00	-61.66	0.00	61.66	2,543.45	1,271.73	2,985.00	1,474.18	1.93	-0.26	0.053
80.00	-27.32	-1.82	0.00	-59.84	0.00	59.84	2,524.53	1,262.26	2,940.46	1,452.18	1.98	-0.27	0.052
80.79	-25.96	-1.77	0.00	-58.40	0.00	58.40	2,509.53	1,254.76	2,905.39	1,434.86	2.03	-0.27	0.051
84.94	-25.95	-1.77	0.00	-51.07	0.00	51.07	1,499.90	749.95	1,728.05	853.42	2.27	-0.29	0.077
85.00	-25.04	-1.73	0.00	-50.97	0.00	50.97	1,499.54	749.77	1,726.89	852.85	2.27	-0.29	0.076
90.00	-19.79	-1.49	0.00	-42.30	0.00	42.30	1,466.64	733.32	1,624.12	802.09	2.60	-0.32	0.066
95.00	-19.00	-1.46	0.00	-34.84	0.00	34.84	1,431.82	715.91	1,522.23	751.77	2.95	-0.35	0.060
100.00	-15.34	-1.25	0.00	-27.55	0.00	27.55	1,395.09	697.54	1,421.47	702.01	3.32	-0.37	0.050
101.00	-14.77	-1.22	0.00	-26.31	0.00	26.31	1,387.51	693.76	1,401.48	692.14	3.40	-0.38	0.049
105.00	-14.09	-1.18	0.00	-21.44	0.00	21.44	1,356.44	678.22	1,322.10	652.93	3.73	-0.40	0.043
110.00	-13.96	-1.17	0.00	-15.55	0.00	15.55	1,315.88	657.94	1,224.36	604.67	4.15	-0.42	0.036
111.00	-10.80	-0.95	0.00	-14.38	0.00	14.38	1,307.54	653.77	1,205.03	595.12	4.24	-0.42	0.032
115.00	-10.18	-0.90	0.00	-10.59	0.00	10.59	1,273.40	636.70	1,128.51	557.33	4.60	-0.43	0.027
120.00	-5.73	-0.54	0.00	-6.08	0.00	6.08	1,215.41	607.71	1,023.37	505.40	5.05	-0.44	0.017
125.00	-5.67	-0.54	0.00	-3.36	0.00	3.36	1,152.33	576.16	919.28	454.00	5.52	-0.45	0.012
125.59	-5.30	-0.50	0.00	-3.04	0.00	3.04	1,144.85	572.43	907.31	448.09	5.58	-0.45	0.011
125.59	-5.30	-0.50	0.00	-3.04	0.00	3.04	385.02	192.51	160.54	106.00	5.58	-0.45	0.042
130.00	-5.21	-0.50	0.00	-0.82	0.00	0.82	385.02	192.51	160.54	106.00	6.00	-0.45	0.021
131.00	-0.48	-0.05	0.00	-0.32	0.00	0.32	385.02	192.51	160.54	106.00	6.09	-0.46	0.004
135.00	-0.42	-0.04	0.00	-0.12	0.00	0.12	385.02	192.51	160.54	106.00	6.47	-0.46	0.002
136.00	-0.19	-0.02	0.00	-0.08	0.00	0.08	385.02	192.51	160.54	106.00	6.57	-0.46	0.001
140.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.95	-0.46	0.000
142.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	7.14	-0.46	0.000

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

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Customer: AT&T MOBILITY

Load Case (0.9 - 0.2Sds) * DL + E ELMF

Seismic (Reduced DL) Equivalent Lateral Forces Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-40.82	-2.03	0.00	-215.61	0.00	215.61	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.046
5.00	-39.08	-2.04	0.00	-205.44	0.00	205.44	4,285.51	2,142.75	7,679.11	3,792.42	0.01	-0.01	0.045
10.00	-37.35	-2.05	0.00	-195.23	0.00	195.23	4,218.97	2,109.49	7,373.27	3,641.38	0.03	-0.03	0.044
15.00	-35.64	-2.05	0.00	-184.99	0.00	184.99	4,150.52	2,075.26	7,070.06	3,491.64	0.06	-0.04	0.043
20.00	-33.96	-2.05	0.00	-174.74	0.00	174.74	4,080.16	2,040.08	6,769.73	3,343.32	0.11	-0.05	0.042
25.00	-32.29	-2.04	0.00	-164.49	0.00	164.49	4,007.88	2,003.94	6,472.54	3,196.54	0.18	-0.07	0.040
30.00	-30.65	-2.04	0.00	-154.27	0.00	154.27	3,933.69	1,966.85	6,178.73	3,051.44	0.26	-0.08	0.039
35.00	-29.03	-2.02	0.00	-144.09	0.00	144.09	3,854.52	1,927.26	5,883.88	2,905.83	0.35	-0.10	0.038
40.00	-28.96	-2.02	0.00	-133.99	0.00	133.99	3,744.12	1,872.06	5,549.75	2,740.81	0.46	-0.11	0.037
40.24	-26.83	-1.99	0.00	-133.50	0.00	133.50	3,738.74	1,869.37	5,533.71	2,732.89	0.46	-0.11	0.037
45.00	-26.66	-1.99	0.00	-124.03	0.00	124.03	3,633.72	1,816.86	5,225.39	2,580.62	0.58	-0.12	0.035
45.40	-25.29	-1.97	0.00	-123.23	0.00	123.23	3,063.79	1,531.89	4,506.32	2,225.50	0.59	-0.13	0.039
50.00	-23.81	-1.93	0.00	-114.20	0.00	114.20	3,008.67	1,504.34	4,302.82	2,125.00	0.72	-0.14	0.038
55.00	-23.62	-1.93	0.00	-104.52	0.00	104.52	2,946.93	1,473.46	4,084.17	2,017.02	0.87	-0.15	0.036
55.68	-22.61	-1.91	0.00	-103.21	0.00	103.21	2,938.42	1,469.21	4,054.78	2,002.51	0.89	-0.15	0.035
55.68	-22.61	-1.91	0.00	-103.21	0.00	103.21	2,938.42	1,469.21	4,054.78	2,002.51	0.89	-0.15	0.059
60.00	-21.92	-1.89	0.00	-94.98	0.00	94.98	2,883.27	1,441.64	3,868.42	1,910.47	1.04	-0.17	0.057
63.00	-21.55	-1.88	0.00	-89.31	0.00	89.31	2,844.16	1,422.08	3,740.46	1,847.27	1.15	-0.18	0.056
65.00	-20.70	-1.85	0.00	-85.56	0.00	85.56	2,808.42	1,404.21	3,643.77	1,799.52	1.23	-0.19	0.055
70.00	-19.87	-1.82	0.00	-76.29	0.00	76.29	2,713.79	1,356.89	3,400.96	1,679.61	1.44	-0.22	0.053
75.00	-19.23	-1.80	0.00	-67.18	0.00	67.18	2,619.16	1,309.58	3,166.52	1,563.83	1.68	-0.24	0.050
79.00	-18.77	-1.78	0.00	-59.98	0.00	59.98	2,543.45	1,271.73	2,985.00	1,474.18	1.89	-0.26	0.048
80.00	-18.64	-1.77	0.00	-58.21	0.00	58.21	2,524.53	1,262.26	2,940.46	1,452.18	1.94	-0.26	0.047
80.79	-17.71	-1.72	0.00	-56.80	0.00	56.80	2,509.53	1,254.76	2,905.39	1,434.86	1.98	-0.27	0.047
84.94	-17.71	-1.72	0.00	-49.65	0.00	49.65	1,499.90	749.95	1,728.05	853.42	2.22	-0.28	0.070
85.00	-17.08	-1.69	0.00	-49.56	0.00	49.56	1,499.54	749.77	1,726.89	852.85	2.23	-0.28	0.070
90.00	-13.50	-1.45	0.00	-41.11	0.00	41.11	1,466.64	733.32	1,624.12	802.09	2.54	-0.31	0.060
95.00	-12.96	-1.42	0.00	-33.85	0.00	33.85	1,431.82	715.91	1,522.23	751.77	2.88	-0.34	0.054
100.00	-10.47	-1.21	0.00	-26.77	0.00	26.77	1,395.09	697.54	1,421.47	702.01	3.25	-0.36	0.046
101.00	-10.08	-1.18	0.00	-25.55	0.00	25.55	1,387.51	693.76	1,401.48	692.14	3.33	-0.37	0.044
105.00	-9.62	-1.14	0.00	-20.82	0.00	20.82	1,356.44	678.22	1,322.10	652.93	3.65	-0.39	0.039
110.00	-9.52	-1.14	0.00	-15.11	0.00	15.11	1,315.88	657.94	1,224.36	604.67	4.06	-0.40	0.032
111.00	-7.37	-0.92	0.00	-13.97	0.00	13.97	1,307.54	653.77	1,205.03	595.12	4.15	-0.41	0.029
115.00	-6.95	-0.88	0.00	-10.29	0.00	10.29	1,273.40	636.70	1,128.51	557.33	4.49	-0.42	0.024
120.00	-3.91	-0.53	0.00	-5.90	0.00	5.90	1,215.41	607.71	1,023.37	505.40	4.94	-0.43	0.015
125.00	-3.87	-0.52	0.00	-3.27	0.00	3.27	1,152.33	576.16	919.28	454.00	5.40	-0.44	0.011
125.59	-3.61	-0.49	0.00	-2.96	0.00	2.96	1,144.85	572.43	907.31	448.09	5.45	-0.44	0.010
125.59	-3.61	-0.49	0.00	-2.96	0.00	2.96	385.02	192.51	160.54	106.00	5.45	-0.44	0.037
130.00	-3.56	-0.48	0.00	-0.80	0.00	0.80	385.02	192.51	160.54	106.00	5.86	-0.44	0.017
131.00	-0.33	-0.05	0.00	-0.31	0.00	0.31	385.02	192.51	160.54	106.00	5.95	-0.44	0.004
135.00	-0.29	-0.04	0.00	-0.12	0.00	0.12	385.02	192.51	160.54	106.00	6.32	-0.45	0.002
136.00	-0.13	-0.02	0.00	-0.08	0.00	0.08	385.02	192.51	160.54	106.00	6.42	-0.45	0.001
140.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.79	-0.45	0.000
142.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.98	-0.45	0.000

Site Number: 302511

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

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Customer: AT&T MOBILITY

Equivalent Modal Forces Analysis

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

Spectral Response Acceleration for Short Period (S_{ds}):	0.23
Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.07
Importance Factor (I_p):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.24
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.11
Period Based on Rayleigh Method (sec):	2.29
Redundancy Factor (p):	1.30

Load Case (1.2 + 0.2Sds) * DL + E EMAM Seismic Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
41	141.00	83	1.863	1.843	1.090	0.434	31	104
40	138.00	186	1.785	1.471	0.952	0.373	60	232
39	135.50	47	1.721	1.203	0.847	0.325	13	58
38	133.00	186	1.658	0.969	0.752	0.280	45	233
37	130.50	68	1.596	0.767	0.665	0.258	14	85
36	127.80	302	1.531	0.580	0.580	0.196	51	376
35	125.30	47	1.472	0.433	0.510	0.159	7	59
34	122.50	407	1.407	0.296	0.439	0.122	43	509
33	117.50	494	1.294	0.112	0.331	0.064	27	617
32	113.00	406	1.197	0.002	0.252	0.021	7	507
31	110.50	107	1.144	-0.041	0.215	0.001	0	134
30	107.50	544	1.083	-0.079	0.177	-0.020	-9	679
29	103.00	446	0.994	-0.111	0.129	-0.044	-17	556
28	100.50	113	0.947	-0.119	0.107	-0.053	-5	141
27	97.50	632	0.891	0.122	0.084	0.061	-33	789
26	92.50	647	0.802	-0.112	0.054	-0.065	-36	807
25	87.50	729	0.718	-0.092	0.033	-0.059	-37	910
24	84.97	8	0.677	-0.080	0.026	-0.052	0	10
23	82.87	1,090	0.644	-0.068	0.020	-0.044	-42	1,360
22	80.40	148	0.606	-0.055	0.015	-0.034	-4	185
21	79.50	188	0.592	-0.050	0.014	-0.030	-5	234
20	77.00	760	0.556	-0.037	0.010	-0.017	-11	949
19	72.50	970	0.493	-0.013	0.007	0.006	5	1,211
18	67.50	992	0.427	0.009	0.006	0.029	25	1,238
17	64.00	403	0.384	0.023	0.007	0.043	15	503
16	61.50	812	0.355	0.032	0.008	0.050	35	1,013
15	57.84	1,184	0.314	0.042	0.011	0.059	60	1,477
14	55.34	232	0.287	0.048	0.013	0.063	13	290
13	52.50	1,726	0.258	0.054	0.016	0.066	99	2,155
12	47.70	1,608	0.213	0.061	0.021	0.068	95	2,007
11	45.20	208	0.191	0.064	0.024	0.069	12	259
10	42.62	2,493	0.170	0.066	0.027	0.069	148	3,111
9	40.12	92	0.151	0.068	0.030	0.068	5	115
8	37.50	1,900	0.132	0.069	0.033	0.067	111	2,372

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Customer: AT&T MOBILITY

7	32.50	1,926	0.099	0.071	0.037	0.066	110	2,404
6	27.50	1,951	0.071	0.072	0.041	0.064	108	2,436
5	22.50	1,977	0.047	0.071	0.042	0.062	107	2,468
4	17.50	2,002	0.029	0.068	0.040	0.059	103	2,499
3	12.50	2,028	0.015	0.060	0.035	0.054	95	2,531
2	7.50	2,053	0.005	0.045	0.026	0.044	78	2,563
1	2.50	2,079	0.001	0.019	0.010	0.021	38	2,595
Kathrein Scala 742-2	140.00	68	1.837	1.713	1.042	0.413	24	84
Generic RCU (Remote	136.00	3	1.734	1.254	0.867	0.334	1	4
Powerwave Allgon 702	131.00	26	1.609	0.805	0.682	0.246	6	33
Kaelus DBC0061F1V51-	131.00	76	1.609	0.805	0.682	0.246	16	95
Raycap DC6-48-60-0-8	131.00	16	1.609	0.805	0.682	0.246	3	20
Powerwave Allgon I.GP	131.00	85	1.609	0.805	0.682	0.246	18	106
Raycap DC6-48-60-18-	131.00	64	1.609	0.805	0.682	0.246	14	79
Ericsson RRUS 8843 B	131.00	216	1.609	0.805	0.682	0.246	46	270
Ericsson RRUS 4449 B	131.00	213	1.609	0.805	0.682	0.246	45	266
Ericsson RRUS 32 B30	131.00	180	1.609	0.805	0.682	0.246	38	225
Powerwave Allgon 777	131.00	105	1.609	0.805	0.682	0.246	22	131
Quintel QS66512-2	131.00	333	1.609	0.805	0.682	0.246	71	416
Kathrein Scala 80010	131.00	293	1.609	0.805	0.682	0.246	62	365
Flat Platform w/ Han	131.00	2,000	1.609	0.805	0.682	0.246	427	2,496
DragonWave Horizon C	120.00	21	1.350	0.195	0.382	0.092	2	26
Alcatel-Lucent RRH2x	120.00	159	1.350	0.195	0.382	0.092	13	198
NextNet BTS-2500	120.00	105	1.350	0.195	0.382	0.092	8	131
Alcatel-Lucent 800 M	120.00	192	1.350	0.195	0.382	0.092	15	240
Nokia 2.5G MAA - AAH	120.00	311	1.350	0.195	0.382	0.092	25	388
Argus LLPX310R	120.00	86	1.350	0.195	0.382	0.092	7	107
DragonWave A-ANT-18G	120.00	54	1.350	0.195	0.382	0.092	4	68
Commscope NNVV-	120.00	232	1.350	0.195	0.382	0.092	18	290
Flat Platform w/ Han	120.00	2,000	1.350	0.195	0.382	0.092	159	2,496
Decibel DB844G90A-XY	111.00	126	1.155	-0.034	0.223	0.005	1	157
Flat Platform w/ Han	111.00	2,000	1.155	-0.034	0.223	0.005	8	2,496
Generic GPS	101.00	10	0.956	-0.118	0.111	-0.051	0	12
RFS FD9R6004/1C-3L	100.00	19	0.937	-0.120	0.102	-0.055	-1	23
Alcatel-Lucent RRH2x	100.00	170	0.937	-0.120	0.102	-0.055	-8	212
Alcatel-Lucent B66A	100.00	201	0.937	-0.120	0.102	-0.055	-10	251
Rymosa MGD3-800TX	100.00	46	0.937	-0.120	0.102	-0.055	-2	58
Commscope RC2DC-	100.00	64	0.937	-0.120	0.102	-0.055	-3	80
Antel BXA-70080/6CF_	100.00	54	0.937	-0.120	0.102	-0.055	-3	67
Commscope NHH-65B-	100.00	262	0.937	-0.120	0.102	-0.055	-12	327
Flat Platform w/ Han	100.00	2,000	0.937	-0.120	0.102	-0.055	-95	2,496
RFS ATMAA1412D-1A20	90.00	52	0.759	-0.103	0.043	-0.063	-3	65
Ericsson Radio 4449	90.00	222	0.759	-0.103	0.043	-0.063	-12	277
Ericsson AIR 21, 1.3	90.00	332	0.759	-0.103	0.043	-0.063	-18	414
Ericsson AIR 32 B2A/	90.00	573	0.759	-0.103	0.043	-0.063	-31	715
RFS APXVAARR24_43-U-	90.00	384	0.759	-0.103	0.043	-0.063	-21	479
Flat Platform w/ Han	90.00	2,000	0.759	-0.103	0.043	-0.063	-110	2,496
Generic 6' Omni	79.00	50	0.585	-0.047	0.013	-0.027	-1	62
Round Side Arm	79.00	300	0.585	-0.047	0.013	-0.027	-7	374
PCTEL GPS-TMG-HR-	63.00	1	0.372	0.027	0.008	0.046	0	1
Stand-Off	63.00	30	0.372	0.027	0.008	0.046	1	37
		50,008	81.073	20.218	22.938	6.469	2,080	62,420

Load Case (0.9 - 0.2Sds) * DL + E EMAM

Seismic (Reduced DL) Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
41	141.00	83	1.863	1.843	1.090	0.434	31	71
40	138.00	186	1.785	1.471	0.952	0.373	60	158

Site Number: 302511

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39	135.50	47	1.721	1.203	0.847	0.325	13	40
38	133.00	186	1.658	0.969	0.752	0.280	45	159
37	130.50	68	1.596	0.767	0.665	0.238	14	58
36	127.80	302	1.531	0.580	0.580	0.196	51	257
35	125.30	47	1.472	0.433	0.510	0.159	7	40
34	122.50	407	1.407	0.296	0.439	0.122	43	347
33	117.50	494	1.294	0.112	0.331	0.064	27	421
32	113.00	406	1.197	0.002	0.252	0.021	7	346
31	110.50	107	1.144	-0.041	0.215	0.001	0	91
30	107.50	544	1.083	-0.079	0.177	-0.020	-9	463
29	103.00	446	0.994	-0.111	0.129	-0.044	-17	380
28	100.50	113	0.947	-0.119	0.107	-0.053	-5	96
27	97.50	632	0.891	-0.122	0.084	-0.061	-33	538
26	92.50	647	0.802	-0.112	0.054	-0.065	-36	551
25	87.50	729	0.718	-0.092	0.033	-0.059	-37	621
24	84.97	8	0.677	-0.080	0.026	-0.052	0	7
23	82.87	1,090	0.644	-0.068	0.020	-0.044	-42	928
22	80.40	148	0.606	-0.055	0.015	-0.034	-4	126
21	79.50	188	0.592	-0.050	0.014	-0.030	-5	160
20	77.00	760	0.556	-0.037	0.010	-0.017	-11	648
19	72.50	970	0.493	-0.013	0.007	0.006	5	826
18	67.50	992	0.427	0.009	0.006	0.029	25	845
17	64.00	403	0.384	0.023	0.007	0.043	15	343
16	61.50	812	0.355	0.032	0.008	0.050	35	691
15	57.84	1,184	0.314	0.042	0.011	0.059	60	1,008
14	55.34	232	0.287	0.048	0.013	0.063	13	198
13	52.50	1,726	0.258	0.054	0.016	0.066	99	1,470
12	47.70	1,608	0.213	0.061	0.021	0.068	95	1,369
11	45.20	208	0.191	0.064	0.024	0.069	12	177
10	42.62	2,493	0.170	0.066	0.027	0.069	148	2,123
9	40.12	92	0.151	0.068	0.030	0.068	5	78
8	37.50	1,900	0.132	0.069	0.033	0.067	111	1,619
7	32.50	1,926	0.099	0.071	0.037	0.066	110	1,640
6	27.50	1,951	0.071	0.072	0.041	0.064	108	1,662
5	22.50	1,977	0.047	0.071	0.042	0.062	107	1,684
4	17.50	2,002	0.029	0.068	0.040	0.059	103	1,706
3	12.50	2,028	0.015	0.060	0.035	0.054	95	1,727
2	7.50	2,053	0.005	0.045	0.026	0.044	78	1,749
1	2.50	2,079	0.001	0.019	0.010	0.021	38	1,771
Kathrein Scala 742-2	140.00	68	1.837	1.713	1.042	0.413	24	57
Generic RCU (Remote	136.00	3	1.734	1.254	0.867	0.334	1	3
Powerwave Allgon 702	131.00	26	1.609	0.805	0.682	0.246	6	22
Kaelus DBC0061F1V51-	131.00	76	1.609	0.805	0.682	0.246	16	65
Raycap DC6-48-60-0-8	131.00	16	1.609	0.805	0.682	0.246	3	14
Powerwave Allgon LGP	131.00	85	1.609	0.805	0.682	0.246	18	72
Raycap DC6-48-60-18-	131.00	64	1.609	0.805	0.682	0.246	14	54
Ericsson RRUS 8843 B	131.00	216	1.609	0.805	0.682	0.246	46	184
Ericsson RRUS 4449 B	131.00	213	1.609	0.805	0.682	0.246	45	181
Ericsson RRUS 32 B30	131.00	180	1.609	0.805	0.682	0.246	38	153
Powerwave Allgon 777	131.00	105	1.609	0.805	0.682	0.246	22	89
Quintel QS66512-2	131.00	333	1.609	0.805	0.682	0.246	71	284
Kathrein Scala 80010	131.00	293	1.609	0.805	0.682	0.246	62	249
Flat Platform w/ Han	131.00	2,000	1.609	0.805	0.682	0.246	427	1,704
DragonWave Horizon C	120.00	21	1.350	0.195	0.382	0.092	2	18
Alcatel-Lucent RRH2x	120.00	159	1.350	0.195	0.382	0.092	13	135
NextNet BTS-2500	120.00	105	1.350	0.195	0.382	0.092	8	89
Alcatel-Lucent 800 M	120.00	192	1.350	0.195	0.382	0.092	15	164
Nokia 2.5G MAA - AAH	120.00	311	1.350	0.195	0.382	0.092	25	265
Argus LLPX310R	120.00	86	1.350	0.195	0.382	0.092	7	73
DragonWave A-ANT-18G	120.00	54	1.350	0.195	0.382	0.092	4	46
Commscope NNVV-	120.00	232	1.350	0.195	0.382	0.092	18	198
Flat Platform w/ Han	120.00	2,000	1.350	0.195	0.382	0.092	159	1,704
Decibel DB844G90A-XY	111.00	126	1.155	-0.034	0.223	0.005	1	107
Flat Platform w/ Han	111.00	2,000	1.155	-0.034	0.223	0.005	8	1,704

Site Number: 302511

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Site Name: WSPT - South, CT

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Customer: AT&T MOBILITY

Generic GPS	101.00	10	0.956	-0.118	0.111	-0.051	0	9
RFS FD9R6004/1C-3L	100.00	19	0.937	-0.120	0.102	-0.055	-1	16
Alcatel-Lucent RRH2x	100.00	170	0.937	-0.120	0.102	-0.055	-8	145
Alcatel-Lucent B66A	100.00	201	0.937	-0.120	0.102	-0.055	-10	171
Ryma MGD3-800TX	100.00	46	0.937	-0.120	0.102	-0.055	-2	39
Commscope RC2DC-	100.00	64	0.937	-0.120	0.102	-0.055	-3	55
Antel BXA-70080/6CF_	100.00	54	0.937	-0.120	0.102	-0.055	-3	46
Commscope NHH-65B-	100.00	262	0.937	-0.120	0.102	-0.055	-12	223
Flat Platform w/ Han	100.00	2,000	0.937	-0.120	0.102	-0.055	-95	1,704
RFS ATMAA1412D-1A20	90.00	52	0.759	-0.103	0.043	-0.063	-3	44
Ericsson Radio 4449	90.00	222	0.759	-0.103	0.043	-0.063	-12	189
Ericsson AIR 21, 1.3	90.00	332	0.759	-0.103	0.043	-0.063	-18	283
Ericsson AIR 32 B2A/	90.00	573	0.759	-0.103	0.043	-0.063	-31	488
RFS APXVAARR24_43-U-	90.00	384	0.759	-0.103	0.043	-0.063	-21	327
Flat Platform w/ Han	90.00	2,000	0.759	-0.103	0.043	-0.063	-110	1,704
Generic 6' Omni	79.00	50	0.585	-0.047	0.013	-0.027	-1	43
Round Side Arm	79.00	300	0.585	-0.047	0.013	-0.027	-7	256
PCTEL GPS-TMG-HR-	63.00	1	0.372	0.027	0.008	0.046	0	1
Stand-Off	63.00	30	0.372	0.027	0.008	0.046	1	26
		50,008	81.073	20.218	22.938	6.469	2,080	42,596

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Site Name: WSPT - South, CT

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Customer: AT&T MOBILITY

Load Case (1.2 + 0.2Sds) * DL + E EMAM Seismic Equivalent Modal Analysis Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-59.83	-2.05	0.00	-173.62	0.00	173.62	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.042
5.00	-57.26	-1.98	0.00	-163.39	0.00	163.39	4,285.51	2,142.75	7,679.11	3,792.42	0.01	-0.01	0.040
10.00	-54.73	-1.89	0.00	-153.49	0.00	153.49	4,218.97	2,109.49	7,373.27	3,641.38	0.02	-0.02	0.039
15.00	-52.23	-1.80	0.00	-144.03	0.00	144.03	4,150.52	2,075.26	7,070.06	3,491.64	0.05	-0.03	0.038
20.00	-49.76	-1.70	0.00	-135.03	0.00	135.03	4,080.16	2,040.08	6,769.73	3,343.32	0.09	-0.04	0.036
25.00	-47.33	-1.60	0.00	-126.53	0.00	126.53	4,007.88	2,003.94	6,472.54	3,196.54	0.14	-0.05	0.035
30.00	-44.92	-1.49	0.00	-118.54	0.00	118.54	3,933.69	1,966.85	6,178.73	3,051.44	0.20	-0.06	0.034
35.00	-42.55	-1.39	0.00	-111.07	0.00	111.07	3,854.52	1,927.26	5,883.88	2,905.83	0.28	-0.07	0.033
40.00	-42.44	-1.39	0.00	-104.12	0.00	104.12	3,744.12	1,872.06	5,549.75	2,740.81	0.36	-0.09	0.033
40.24	-39.32	-1.24	0.00	-103.78	0.00	103.78	3,738.74	1,869.37	5,533.71	2,732.89	0.36	-0.09	0.032
45.00	-39.06	-1.23	0.00	-97.89	0.00	97.89	3,633.72	1,816.86	5,225.39	2,580.62	0.46	-0.10	0.032
45.40	-37.06	-1.13	0.00	-97.40	0.00	97.40	3,063.79	1,531.89	4,506.32	2,225.50	0.46	-0.10	0.035
50.00	-34.90	-1.04	0.00	-92.18	0.00	92.18	3,008.67	1,504.34	4,302.82	2,125.00	0.56	-0.11	0.034
55.00	-34.61	-1.03	0.00	-86.99	0.00	86.99	2,946.93	1,473.46	4,084.17	2,017.02	0.68	-0.12	0.033
55.68	-33.14	-0.97	0.00	-86.29	0.00	86.29	2,938.42	1,469.21	4,054.78	2,002.51	0.70	-0.12	0.033
55.68	-33.14	-0.97	0.00	-86.29	0.00	86.29	2,938.42	1,469.21	4,054.78	2,002.51	0.70	-0.12	0.054
60.00	-32.12	-0.94	0.00	-82.10	0.00	82.10	2,883.27	1,441.64	3,868.42	1,910.47	0.81	-0.13	0.054
63.00	-31.58	-0.93	0.00	-79.29	0.00	79.29	2,844.16	1,422.08	3,740.46	1,847.27	0.90	-0.14	0.054
65.00	-30.34	-0.91	0.00	-77.43	0.00	77.43	2,808.42	1,404.21	3,643.77	1,799.52	0.96	-0.15	0.054
70.00	-29.13	-0.91	0.00	-72.90	0.00	72.90	2,713.79	1,356.89	3,400.96	1,679.61	1.14	-0.18	0.054
75.00	-28.18	-0.93	0.00	-68.35	0.00	68.35	2,619.16	1,309.58	3,166.52	1,563.83	1.33	-0.20	0.054
79.00	-27.51	-0.94	0.00	-64.64	0.00	64.64	2,543.45	1,271.73	2,985.00	1,474.18	1.51	-0.22	0.055
80.00	-27.33	-0.95	0.00	-63.69	0.00	63.69	2,524.53	1,262.26	2,940.46	1,452.18	1.55	-0.22	0.055
80.79	-25.97	-0.99	0.00	-62.94	0.00	62.94	2,509.53	1,254.76	2,905.39	1,434.86	1.59	-0.23	0.054
84.94	-25.95	-1.00	0.00	-58.82	0.00	58.82	1,499.90	749.95	1,728.05	853.42	1.80	-0.25	0.086
85.00	-25.04	-1.04	0.00	-58.76	0.00	58.76	1,499.54	749.77	1,726.89	852.85	1.80	-0.25	0.086
90.00	-19.79	-1.26	0.00	-53.57	0.00	53.57	1,466.64	733.32	1,624.12	802.09	2.08	-0.28	0.080
95.00	-19.00	-1.30	0.00	-47.27	0.00	47.27	1,431.82	715.91	1,522.23	751.77	2.40	-0.32	0.076
100.00	-15.34	-1.42	0.00	-40.77	0.00	40.77	1,395.09	697.54	1,421.47	702.01	2.75	-0.36	0.069
101.00	-14.77	-1.44	0.00	-39.35	0.00	39.35	1,387.51	693.76	1,401.48	692.14	2.83	-0.36	0.068
105.00	-14.09	-1.45	0.00	-33.59	0.00	33.59	1,356.44	678.22	1,322.10	652.93	3.14	-0.39	0.062
110.00	-13.96	-1.46	0.00	-26.33	0.00	26.33	1,315.88	657.94	1,224.36	604.67	3.57	-0.42	0.054
111.00	-10.80	-1.42	0.00	-24.87	0.00	24.87	1,307.54	653.77	1,205.03	595.12	3.66	-0.43	0.050
115.00	-10.18	-1.39	0.00	-19.19	0.00	19.19	1,273.40	636.70	1,128.51	557.33	4.02	-0.45	0.042
120.00	-5.73	-1.06	0.00	-12.23	0.00	12.23	1,215.41	607.71	1,023.37	505.40	4.51	-0.47	0.029
125.00	-5.67	-1.06	0.00	-6.92	0.00	6.92	1,152.33	576.16	919.28	454.00	5.01	-0.49	0.020
125.59	-5.29	-1.00	0.00	-6.29	0.00	6.29	1,144.85	572.43	907.31	448.09	5.07	-0.49	0.019
125.59	-5.29	-1.00	0.00	-6.29	0.00	6.29	385.02	192.51	160.54	106.00	5.07	-0.49	0.073
130.00	-5.21	-0.99	0.00	-1.87	0.00	1.87	385.02	192.51	160.54	106.00	5.52	-0.49	0.031
131.00	-0.48	-0.13	0.00	-0.88	0.00	0.88	385.02	192.51	160.54	106.00	5.63	-0.50	0.010
135.00	-0.42	-0.12	0.00	-0.35	0.00	0.35	385.02	192.51	160.54	106.00	6.05	-0.50	0.004
136.00	-0.19	-0.06	0.00	-0.23	0.00	0.23	385.02	192.51	160.54	106.00	6.15	-0.50	0.003
140.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.57	-0.50	0.000
142.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.78	-0.50	0.000

Site Number: 302511

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Site Name: WSPT - South, CT

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Customer: AT&T MOBILITY

Load Case (0.9 - 0.2Sds) * DL + E EMAM Seismic (Reduced DL) Equivalent Modal Analysis Method

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-40.83	-2.04	0.00	-170.58	0.00	170.58	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.038
5.00	-39.08	-1.97	0.00	-160.35	0.00	160.35	4,285.51	2,142.75	7,679.11	3,792.42	0.01	-0.01	0.036
10.00	-37.35	-1.89	0.00	-150.48	0.00	150.48	4,218.97	2,109.49	7,373.27	3,641.38	0.02	-0.02	0.035
15.00	-35.64	-1.79	0.00	-141.06	0.00	141.06	4,150.52	2,075.26	7,070.06	3,491.64	0.05	-0.03	0.034
20.00	-33.96	-1.69	0.00	-132.12	0.00	132.12	4,080.16	2,040.08	6,769.73	3,343.32	0.09	-0.04	0.033
25.00	-32.30	-1.58	0.00	-123.69	0.00	123.69	4,007.88	2,003.94	6,472.54	3,196.54	0.14	-0.05	0.032
30.00	-30.65	-1.48	0.00	-115.78	0.00	115.78	3,933.69	1,966.85	6,178.73	3,051.44	0.20	-0.06	0.031
35.00	-29.04	-1.37	0.00	-108.39	0.00	108.39	3,854.52	1,927.26	5,883.88	2,905.83	0.27	-0.07	0.030
40.00	-28.96	-1.37	0.00	-101.55	0.00	101.55	3,744.12	1,872.06	5,549.75	2,740.81	0.35	-0.08	0.029
40.24	-26.83	-1.22	0.00	-101.21	0.00	101.21	3,738.74	1,869.37	5,533.71	2,732.89	0.36	-0.08	0.029
45.00	-26.66	-1.21	0.00	-95.42	0.00	95.42	3,633.72	1,816.86	5,225.39	2,580.62	0.45	-0.09	0.028
45.40	-25.29	-1.11	0.00	-94.94	0.00	94.94	3,063.79	1,531.89	4,506.32	2,225.50	0.45	-0.10	0.032
50.00	-23.82	-1.02	0.00	-89.82	0.00	89.82	3,008.67	1,504.34	4,302.82	2,125.00	0.55	-0.11	0.031
55.00	-23.62	-1.01	0.00	-84.74	0.00	84.74	2,946.93	1,473.46	4,084.17	2,017.02	0.67	-0.12	0.030
55.68	-22.61	-0.95	0.00	-84.06	0.00	84.06	2,938.42	1,469.21	4,054.78	2,002.51	0.68	-0.12	0.030
55.68	-22.61	-0.95	0.00	-84.06	0.00	84.06	2,938.42	1,469.21	4,054.78	2,002.51	0.68	-0.12	0.050
60.00	-21.92	-0.91	0.00	-79.98	0.00	79.98	2,883.27	1,441.64	3,868.42	1,910.47	0.80	-0.13	0.049
63.00	-21.55	-0.90	0.00	-77.24	0.00	77.24	2,844.16	1,422.08	3,740.46	1,847.27	0.88	-0.14	0.049
65.00	-20.71	-0.88	0.00	-75.44	0.00	75.44	2,808.42	1,404.21	3,643.77	1,799.52	0.94	-0.15	0.049
70.00	-19.88	-0.88	0.00	-71.05	0.00	71.05	2,713.79	1,356.89	3,400.96	1,679.61	1.11	-0.17	0.050
75.00	-19.23	-0.89	0.00	-66.66	0.00	66.66	2,619.16	1,309.58	3,166.52	1,563.83	1.30	-0.19	0.050
79.00	-18.77	-0.91	0.00	-63.08	0.00	63.08	2,543.45	1,271.73	2,985.00	1,474.18	1.47	-0.21	0.050
80.00	-18.65	-0.91	0.00	-62.17	0.00	62.17	2,524.53	1,262.26	2,940.46	1,452.18	1.52	-0.22	0.050
80.79	-17.72	-0.96	0.00	-61.45	0.00	61.45	2,509.53	1,254.76	2,905.39	1,434.86	1.56	-0.22	0.050
84.94	-17.71	-0.96	0.00	-57.48	0.00	57.48	1,499.90	749.95	1,728.05	853.42	1.76	-0.24	0.079
85.00	-17.09	-1.00	0.00	-57.42	0.00	57.42	1,499.54	749.77	1,726.89	852.85	1.76	-0.24	0.079
90.00	-13.50	-1.22	0.00	-52.42	0.00	52.42	1,466.64	733.32	1,624.12	802.09	2.03	-0.28	0.075
95.00	-12.96	-1.26	0.00	-46.30	0.00	46.30	1,431.82	715.91	1,522.23	751.77	2.34	-0.31	0.071
100.00	-10.47	-1.39	0.00	-39.99	0.00	39.99	1,395.09	697.54	1,421.47	702.01	2.69	-0.35	0.064
101.00	-10.08	-1.41	0.00	-38.60	0.00	38.60	1,387.51	693.76	1,401.48	692.14	2.76	-0.35	0.063
105.00	-9.61	-1.42	0.00	-32.96	0.00	32.96	1,356.44	678.22	1,322.10	652.93	3.07	-0.38	0.058
110.00	-9.52	-1.42	0.00	-25.87	0.00	25.87	1,315.88	657.94	1,224.36	604.67	3.49	-0.41	0.050
111.00	-7.37	-1.39	0.00	-24.44	0.00	24.44	1,307.54	653.77	1,205.03	595.12	3.57	-0.42	0.047
115.00	-6.94	-1.36	0.00	-18.88	0.00	18.88	1,273.40	636.70	1,128.51	557.33	3.93	-0.44	0.039
120.00	-3.91	-1.05	0.00	-12.06	0.00	12.06	1,215.41	607.71	1,023.37	505.40	4.41	-0.46	0.027
125.00	-3.87	-1.04	0.00	-6.82	0.00	6.82	1,152.33	576.16	919.28	454.00	4.90	-0.48	0.018
125.59	-3.61	-0.99	0.00	-6.20	0.00	6.20	1,144.85	572.43	907.31	448.09	4.96	-0.48	0.017
125.59	-3.61	-0.99	0.00	-6.20	0.00	6.20	385.02	192.51	160.54	106.00	4.96	-0.48	0.068
130.00	-3.55	-0.97	0.00	-1.85	0.00	1.85	385.02	192.51	160.54	106.00	5.40	-0.48	0.027
131.00	-0.33	-0.13	0.00	-0.87	0.00	0.87	385.02	192.51	160.54	106.00	5.50	-0.49	0.009
135.00	-0.29	-0.12	0.00	-0.34	0.00	0.34	385.02	192.51	160.54	106.00	5.91	-0.49	0.004
136.00	-0.13	-0.06	0.00	-0.23	0.00	0.23	385.02	192.51	160.54	106.00	6.02	-0.49	0.002
140.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.43	-0.49	0.000
142.00	0.00	0.00	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	6.63	-0.49	0.000

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

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Customer: AT&T MOBILITY

Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.6W	41.65	0.00	59.92	0.00	0.00	3857.92	84.94	0.91
0.9D + 1.6W	39.98	0.00	44.92	0.00	0.00	3721.06	84.94	0.88
1.2D + 1.0Di + 1.0Wi	10.16	0.00	92.39	0.00	0.00	1001.94	84.94	0.28
(1.2 + 0.2Sds) * DL + E ELFM	2.04	0.00	59.83	0.00	0.00	219.26	84.94	0.08
(1.2 + 0.2Sds) * DL + E EMAM	2.05	0.00	59.83	0.00	0.00	173.62	84.94	0.09
(0.9 - 0.2Sds) * DL + E ELFM	2.03	0.00	40.82	0.00	0.00	215.61	84.94	0.07
(0.9 - 0.2Sds) * DL + E EMAM	2.04	0.00	40.83	0.00	0.00	170.58	84.94	0.08
1.0D + 1.0W	10.40	0.00	50.00	0.00	0.00	973.57	84.94	0.24

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Site Name: WSPT - South, CT

Engineering Number: OAA746714_C3_02

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Customer: AT&T MOBILITY

Additional Steel Summary

Intermediate Connectors

Elev From (ft)	Elev To (ft)	Member	VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	Ratio	Max Member Pu (kip)	phiPn (kip)	Ratio
0.00	55.68	(4) SOL-#20 All Thread Bar	346.0	10.4	16.8	0.618	265.3	330.5	0.803

Upper Termination Connectors

Lower Termination Connectors

Elev From (ft)	Elev To (ft)	Member	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Ratio	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Ratio
0.00	55.68	(4) SOL-#20 All Thread Bar	207.0	12.0	18	22	0.784	0.0	12.0	0	0	0.000

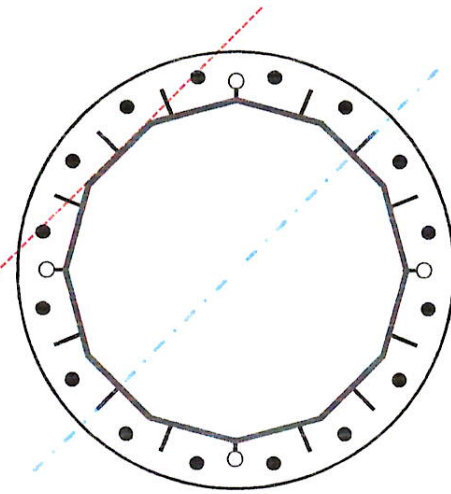
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	12	-
Diameter	45	in
Thickness	0.4375	in
Orientation Offset	0	°

Base Reactions		
Moment, Mu	3857.9	k-ft
Axial, Pu	59.9	k
Shear, Vu	41.7	k
Neutral Axis	45	°

Report Capacities		
Component	Capacity	Result
Base Plate	77%	Pass
Anchor Rods	58%	Pass
Dwyidag	50%	Pass

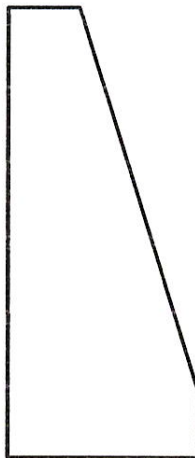
Base Plate		
Shape	Round	-
Diameter, ϕ	60	in
Thickness	2	in
Grade	A572-60	-
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Clip	N/A	in
Orientation Offset	0	°
Anchor Rod Detail	c	$\eta=0.55$
Clear Distance	N/A	in
Applied Moment, Mu	1145.2	k
Bending Stress, ϕMn	1481.2	k



Dwyidag Reinforcement		
Quantity	4	-
Bar Size	#20	in
Diameter, ϕ	2.5	in
Bracket Type	Angle	-
Circle	51.88	in
Orientation Offset	0	°
Applied Force, Pu	197.1	k
Dwyidag Bar, ϕPn	392.7	k

Original Anchor Rods		
Arrangement	Radial	-
Quantity	16	-
Diameter, ϕ	2 1/4	in
Bolt Circle	54	in
Grade	A615-75	-
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	10.6	in
Orientation Offset	11.25	°
Applied Force, Pu	148.5	k
Anchor Rods, ϕPn	259.8	k

Stiffeners		
Arrangement	Radial	-
Quantity	16	-
Height	10	in
Width	4	in
Effective Width	4.000	in
Thickness	1/2	in
Effective Thickness	0.500	in
Notch	0	in
Flat Edge	1.5	in
Grade	A36	-
Yield Strength, Fy	36	ksi
Tensile Strength, Fu	58	ksi
Horizontal Weld	Bevel	-
Horizontal Fillet Size	5/16	in
Bevel Depth	5/16	in
Vertical Weld	Fillet	-
Vertical Fillet Size	5/16	in
Weld Strength	70	ksi
Electrode Coefficient	1	-
Orientation Offset	11.25	°
Vertical Weld, ϕRn	139.5	k
Horz. Weld, ϕRn	83.6	k
Ten. Capacity, ϕTn	64.8	k
Comp. Capacity, ϕPn	261.5	k



Base/Flange Plate	Plate Type	Flange @ 125.59 ft
	Pole Diameter	10.75 in
	Pole Thickness	0.375 in
	Plate Diameter	28.5 in
	Plate Thickness	1 in
	Plate Fy	36 ksi
	Weld Length	0.3125 in
	ϕ_s Resistance	85.53 k-in
	Applied	32.66 k-in
	#	9 Show
Stiffeners	Thickness	0.25 in
	Length	4 in
	Height	6 in
	Chamfer	0 in
	Offset Angle	0°
	Fy	36 ksi

Code Rev. **G**

Date **4/11/2019**
 Engineer **Austin.Wilson**
 Site # **302511**
 Carrier **AT&T MOBILITY**

Moment **42.2 k-ft**
 Axial **4.7 k**

Bolts	#	15
	Bolt Circle (R)adial / (S)quare	25.75 in R
	Diameter	1 in
	Hole Diameter	1.125 in
	Type	A325
	Fy	92 ksi
	Fu	120 ksi
	ϕ_s Resistance Applied	54.52 k 4.93 k
Reinforcement	#	0
	#	0
Extra Bolts	#	0

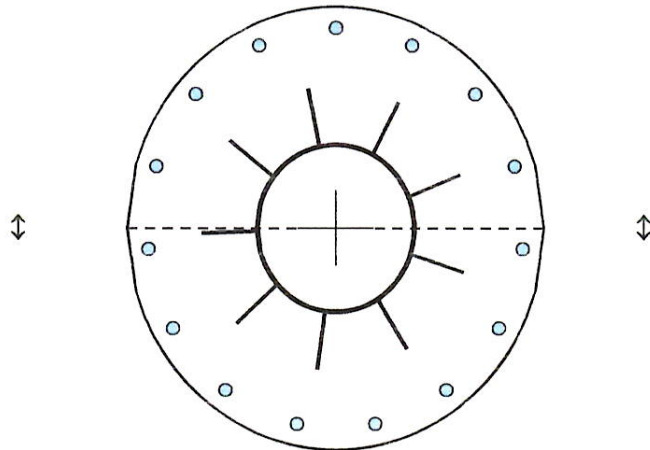
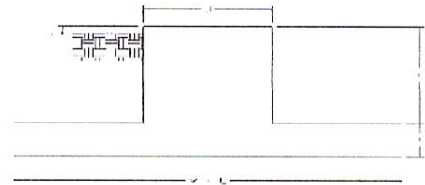


Plate Stress Ratio:
0.38 (Pass)

Bolt Stress Ratio:
0.09 (Pass)

Site Name: WSPT - South, CT
 Site Number: 302511
 Engineering Number: OAA746714
 Engineer: Austin.Wilson
 Date: 04/11/19
 Tower Type: MP

Program Last Updated: 5/13/2014



Design Loads (Factored) - Analysis per TIA-222-G Standards

Design / Analysis / Mapping:	Mapping
Compression/Leg:	59.9 k
Uplift/Leg:	0 k
Total Shear:	41.7 k
Moment:	3857.9 k-ft
Tower + Appurtenance Weight:	50.0 k
Depth to Base of Foundation (l + t - h):	7 ft
Diameter of Pier (d):	6.5 ft
Height of Pier above Ground (h):	0.5 ft
Width of Pad (W):	26.5 ft
Length of Pad (L):	26.5 ft
Thickness of Pad (t):	3 ft
Tower Leg Center to Center:	0 ft
Number of Tower Legs:	1 (1 if MP or GT)
Tower Center from Mat Center:	0 ft
Depth Below Ground Surface to Water Table:	9.5 ft
Unit Weight of Concrete:	150 pcf
Unit Weight of Soil Above Water Table:	120 pcf
Unit Weight of Water:	62.4 pcf
Unit Weight of Soil Below Water Table:	57.6 pcf
Friction Angle of Uplift:	15 Degrees
Ultimate Coefficient of Shear Friction:	0.35
Ultimate Compressive Bearing Pressure:	20000 psf
Ultimate Passive Pressure on Pad Face:	500 psf
$\phi_{\text{Soil and Concrete Weight}}$:	0.9
ϕ_{Soil} :	0.75

Overturning Moment Usage

Design OTM:	4170.5 k-ft
OTM Resistance:	8919.6 k-ft
Design OTM / OTM Resistance:	0.47 Result: OK

Soil Bearing Pressure Usage

Net Bearing Pressure:	2088 psf
Factored Nominal Bearing Pressure:	15000 psf
Net Bearing Pressure/Factored Nominal Bearing Pressure:	0.14 Result: OK
Load Direction Controlling Design Bearing Pressure:	Diagonal to Pad Edge

Sliding Factor of Safety

Total Factored Sliding Resistance:	210.9 k
Sliding Design / Sliding Resistance:	0.20 Result: OK



March 22, 2019

Mary Caulfield
SAI Communications, LLC.
12 Industrial Way
Salem, NH 03079
(603) 212-5041

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630
btwo@btgrp.com

Subject: **Appurtenance Mount Analysis Report**

Carrier Designation: **Site Number:** 10035073
Site Name: Westport South CT2103

Engineering Firm Designation: **B+T Group Project Number:** 134498.001.01

Site Data: **19-20 Post Office Lane, Westport, CT, 06880, Fairfield County**
Latitude 41.12343°, Longitude -73.31305°
Monopole
10' Platform Mount

Dear Ms. Caulfield,

B+T Group is pleased to submit this “**Appurtenance Mount Analysis Report**” to determine the structural integrity of the antenna mount on the above-mentioned structure.

The purpose of the analysis is to determine acceptability of the mount’s stress level. Based on our analysis we have determined the stress level for the mount under the following load case to be:

Existing + Proposed Equipment

Note: See Table 1 for the final loading configuration

Sufficient Capacity
(Passing at 76.7%)

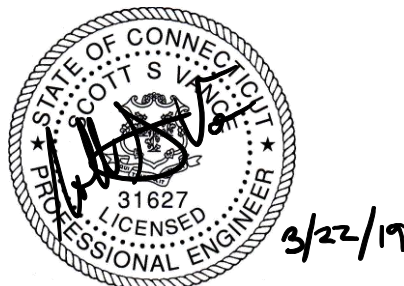
This analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 118 mph. Exposure Category C and Risk Category II were used in this analysis.

All the equipment proposed in this report shall be installed in accordance with the drawings for the determined available structural capacity to be effective.

We at B+T Group appreciate the opportunity of providing our continuing professional services to you and SAI Communications, LLC. If you have any questions or need further assistance on this or any other projects, please give us a call.

Mount structural analysis prepared by: Ramya Pasnoor, E.I.T

Respectfully submitted by: B&T Engineering, Inc.
COA: PEC.0001564 Expires: 02/10/2020



Scott S. Vance, P.E.

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2) ANALYSIS CRITERIA

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Table 2 - Documents Provided

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3.2) Assumptions

4) ANALYSIS RESULTS

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5) RECOMMENDATIONS

6) APPENDIX A

RISA-3D Output

1) INTRODUCTION

The appurtenance mount consists of platform mount at 131 ft. attached to monopole at 19-20 Post Office Lane, Westport, CT, 06880, Fairfield County. The proposed antenna loading information was obtained from SAI Communications, LLC. All information provided to B+T Group was assumed accurate and complete.

2) ANALYSIS CRITERIA

The structural analysis was performed for this mount in accordance with the ANSI/TIA-222-H-2017 Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures using a 3-second gust wind speed of 118 mph with no ice and 50 mph with 1 inch escalated ice thickness. Exposure Category C, Topographic Category 1 and Risk Category II were used in this analysis. In addition, the sector mount has been analyzed for various live loading conditions consisting of a 250-lb man live load applied individually at the midpoint and cantilevered ends of horizontal members as well as a 250-pound man live load applied individually at mount pipe locations using a 3-second gust of 30mph. The mount was analyzed under 30° increments in the wind direction. The analyzed loading is detailed in Table 1.

Table 2 – Proposed and Existing Equipment Information

Loading	RAD Ctr. Elev. (ft.)	Position	Qty.	Manufacturer	Model / Type	Note
Proposed	131	4	3	Kathrein	800-10965	1
		4	3	Ericsson	B2/B66A 8843	2
		4	3	Ericsson	B5/B12 4449	
		-	1	Raycap	DC6-48-60-18-8F	3
Existing	131	1	3	Powerwave	7770	4
		2	3	Quintel	QS66512-2	
		1	6	Powerwave	LGP 21401	
		2	6	Kaelus	DBC0061F1V51-2	
		2	3	Ericsson	RRUS-32	
		-	2	Raycap	DC6-48-60-18-8F	

Note:

- (1) Proposed Antenna to be installed on the existing Mount Pipe.
- (2) Proposed Equipment to be installed with RRUS Support, directly behind the Antenna.
- (3) Proposed Equipment to be installed on the mount.
- (4) Existing Equipment installed on the Mount.

Table 3 - Documents Provided

Documents	Remarks	Reference	Source
RFDS	Existing Loading Proposed Loading	Date: 01/29/2019	SAI Communications, LLC.
MA Report	Centek engineering	Date: 04/18/2018	SAI Communications, LLC.

3) ANALYSIS PROCEDURE

3.1) Analysis Method

RISA-3D (Version 17.0.2), a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses and deflections for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

1. The mount was built in accordance with the manufacturer's specifications.
2. The mount has been maintained in accordance with the manufacturer's specifications and is free of damage.
3. The configuration of antennas and other appurtenances are as specified in Table 1.
4. All mount components have been assumed to be in sufficient condition to carry their full design capacity for the analysis.
5. Mount areas and weights are determined from field measurements, standard material properties, and/or manufacturer product data.
6. Serviceability with respect to antenna twist, tilt, roll or lateral translation is not checked and is left to the carrier or tower owner to ensure conformance.
7. All prior structural modifications, if any are assumed to be correctly installed and fully effective.
8. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
9. The following material grades were assumed (Unless Noted Otherwise):
 - a) Connection Bolts : ASTM A325
 - b) Steel Pipe : ASTM A53 (GR. 35)
 - c) HSS (Round) : ASTM 500 (GR. B-42)
 - d) HSS (Rectangular) : ASTM 500 (GR. B-46)
 - e) Channel : ASTM A36 (GR. 36)
 - f) Steel Solid Rod : ASTM A36 (GR. 36)
 - g) Steel Plate : ASTM A36 (GR. 36)
 - h) Steel Angle : ASTM A36 (GR. 36)
 - i) Unistrut : ASTM A570 (GR. 33)

This analysis may be affected if any assumptions are not valid or have been made in error. B+T Group should be notified to determine the effect on the structural integrity of the antenna mounting system.

4) ANALYSIS RESULTS

Table 4 – Mount Component Stresses vs. Capacity

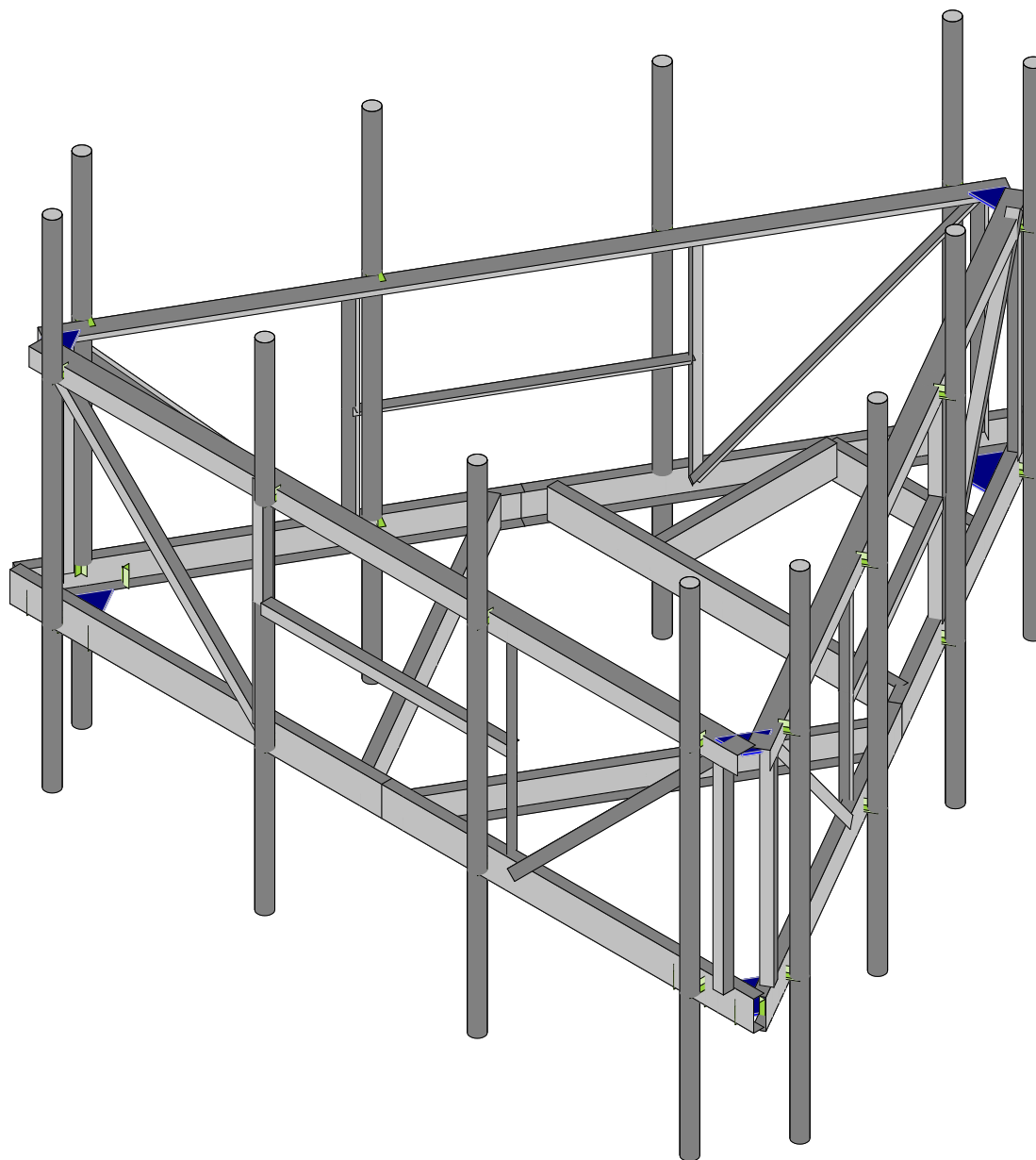
Notes	Component	Elevation (ft.)	% Capacity	Pass / Fail
-	Handrails	131	51.7	Pass
-	Main Horizontals	131	56.8	Pass
-	Verticals	131	21.6	Pass
-	Diagonals	131	57.6	Pass
-	Support Channels	131	76.7	Pass
-	Mount Pipes	131	25.6	Pass
-	Connection Angles	131	11.3	Pass

5) RECOMMENDATIONS

The mount has sufficient capacity to carry the existing and proposed loads and is in compliance with the ANSI/TIA-222-H standard for the proposed, reserved and existing loading. (Refer to the RISA output for the specific members).

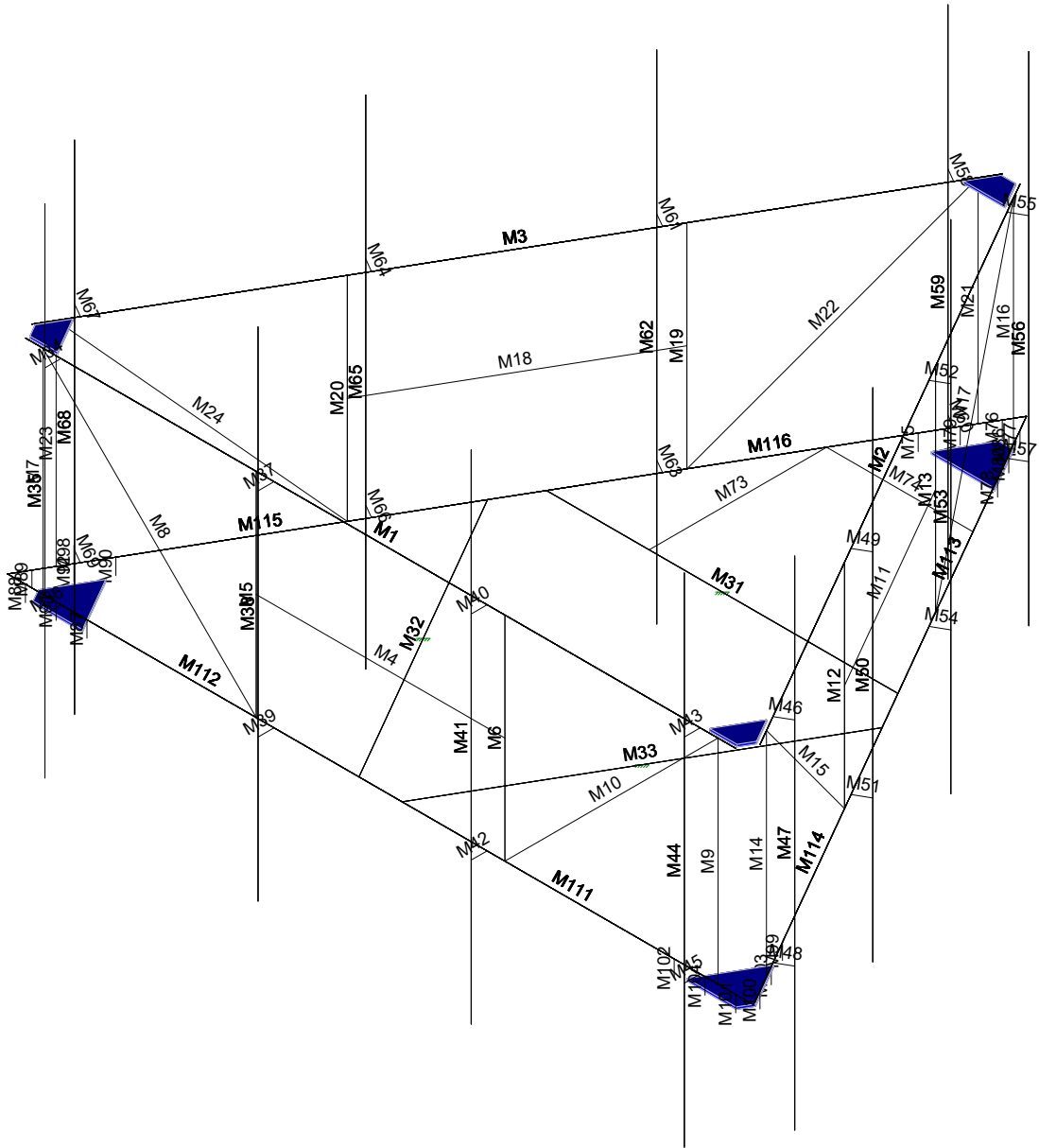
APPENDIX A

(RISA-3D Output)



Envelope Only Solution

B+T Group	10035073 - Westport South CT2103	SK - 1
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Envelope Only Solution

B+T Group

RP

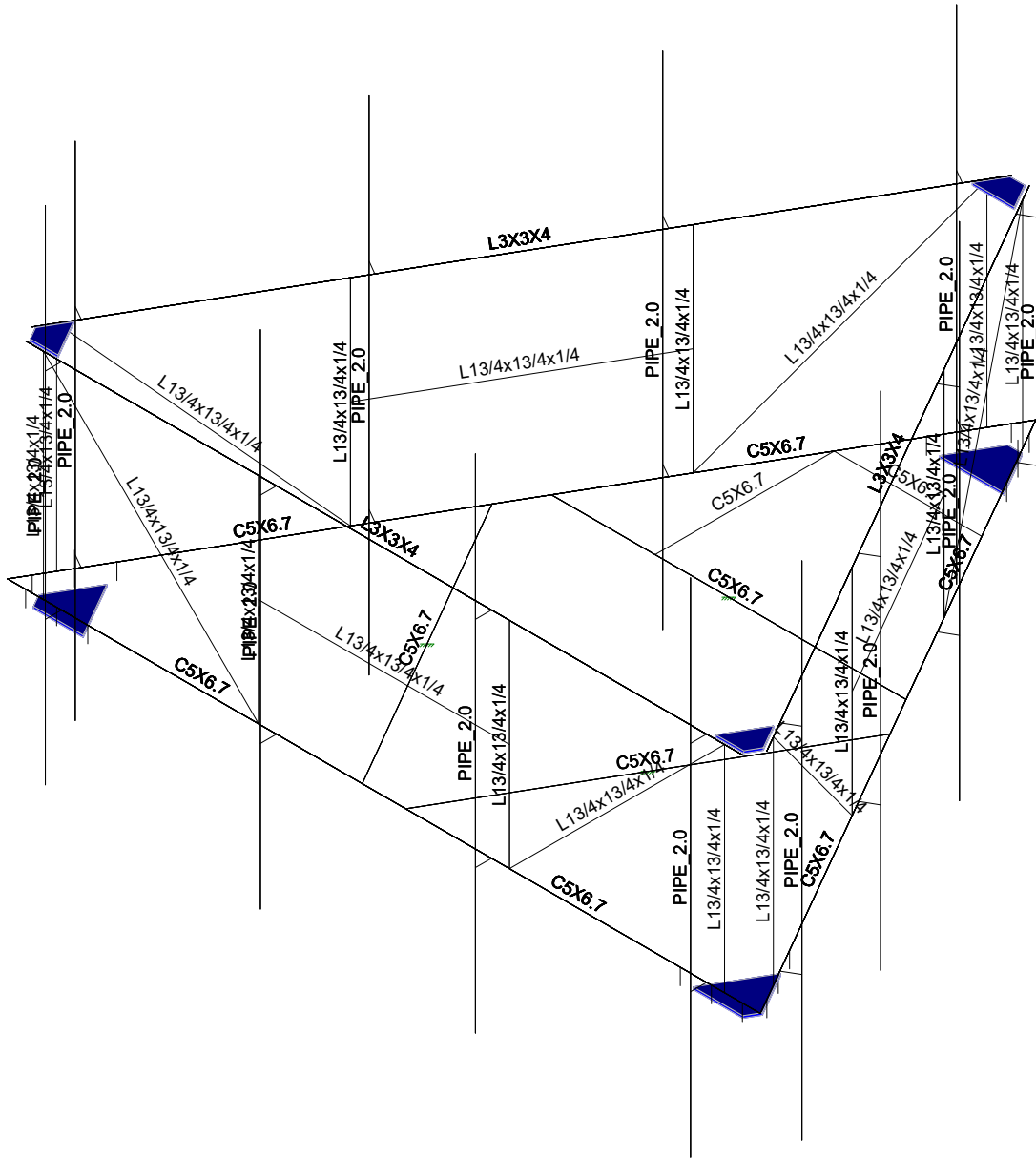
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10035073 - Westport South CT2103

SK - 2

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Envelope Only Solution

B+T Group

RP

134498.001.01

10035073 - Westport South CT2103

SK - 3

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PROJECT	134498.001.01 - Westport So		KSC
SUBJECT	Platform Mount Mount Analysis		
DATE	03/22/19	PAGE	OF



Manufacturer	Model	Qty	Aspect Ratio	C _a flat/round	EPA _N *K _a (ft ²)	EPA _T *K _a (ft ²)	EPA _{N-ice} *K _a (ft ²)	EPA _{T-ice} *K _a (ft ²)	F _A No Ice (N)	F _A No Ice (T)	F _A Ice (N)	F _A Ice (T)
Powerwave	7770	0.5	5.00	1.31	1.89	0.86	2.38	1.31	0.11	0.06	0.02	0.01
Powerwave	7770	0.5	5.00	1.31	1.89	0.86	2.38	1.31	0.11	0.06	0.02	0.01
Quintel	QS66512-2	0.5	6.00	1.36	2.70	2.16	3.32	2.76	0.17	0.14	0.03	0.02
Quintel	QS66512-2	0.5	6.00	1.36	2.70	2.16	3.32	2.76	0.17	0.14	0.03	0.02
Kaelus	DBC0061F1V51-2	2	1.23	1.20	0.65	0.62	1.13	1.09	0.04	0.03	0.01	0.01
Ericsson	RRUS-32	1	2.22	1.20	2.14	1.27	2.75	1.81	0.12	0.07	0.02	0.01
Kathrien	800-10965	0.5	3.94	1.26	4.92	1.70	5.64	2.33	0.28	0.12	0.05	0.02
Kathrien	800-10965	0.5	3.94	1.26	4.92	1.70	5.64	2.33	0.28	0.12	0.05	0.02
Ericsson	B5/B12 4449	1	1.91	1.20	1.06	1.48	1.49	1.96	0.06	0.08	0.01	0.01
Ericsson	B2/B66A 8843	1	1.59	1.20	1.27	1.49	1.72	1.97	0.07	0.08	0.01	0.01
Powerwave	LGP 21401	2	5.19	1.32	0.47	1.23	1.02	1.89	0.03	0.07	0.00	0.01
Powerwave	7770	0.5	5.00	1.31	1.89	0.86	2.38	1.31	0.11	0.06	0.02	0.01
Powerwave	7770	0.5	5.00	1.31	1.89	0.86	2.38	1.31	0.11	0.06	0.02	0.01
Quintel	QS66512-2	0.5	6.00	1.36	2.70	2.16	3.32	2.76	0.17	0.14	0.03	0.02
Quintel	QS66512-2	0.5	6.00	1.36	2.70	2.16	3.32	2.76	0.17	0.14	0.03	0.02
Kaelus	DBC0061F1V51-2	2	1.23	1.20	0.65	0.62	1.13	1.09	0.04	0.03	0.01	0.01
Ericsson	RRUS-32	1	2.22	1.20	2.14	1.27	2.75	1.81	0.12	0.07	0.02	0.01

PROJECT	134498.001.01 - Westport So		KSC
SUBJECT	Platform Mount Mount Analysis		
DATE	03/22/19	PAGE	OF



Manufacturer	Model	Qty	Aspect Ratio	C _a flat/round	EPA _N *K _a (ft ²)	EPA _T *K _a (ft ²)	EPA _{N-ice} *K _a (ft ²)	EPA _{T-ice} *K _a (ft ²)	F _A No Ice (N)	F _A No Ice (T)	F _A Ice (N)	F _A Ice (T)
Kathrien	800-10965	0.5	3.94	1.26	4.92	1.70	5.64	2.33	0.00	0.12	0.05	0.02
Kathrien	800-10965	0.5	3.94	1.26	4.92	1.70	5.64	2.33	0.00	0.12	0.05	0.02
Ericsoon	B5/B12 4449	1	1.91	1.20	1.06	1.48	1.49	1.96	0.00	0.08	0.01	0.01
Ericsson	B2/B66A 8843	1	1.59	1.20	1.27	1.49	1.72	1.97	0.00	0.08	0.01	0.01
Powerwave	LGP 21401	2	5.19	1.32	0.47	1.23	1.02	1.89	0.00	0.07	0.00	0.01
Powerwave	7770	0.5	5.00	1.31	1.89	0.86	2.38	1.31	0.00	0.06	0.02	0.01
Powerwave	7770	0.5	5.00	1.31	1.89	0.86	2.38	1.31	0.00	0.06	0.02	0.01
Quintel	QS66512-2	0.5	6.00	1.36	2.70	2.16	3.32	2.76	0.00	0.14	0.03	0.02
Quintel	QS66512-2	0.5	6.00	1.36	2.70	2.16	3.32	2.76	0.00	0.14	0.03	0.02
Kaelus	DBC0061F1V51-2	2	1.23	1.20	0.65	0.62	1.13	1.09	0.00	0.03	0.01	0.01
Ericsson	RRUS-32	1	2.22	1.20	2.14	1.27	2.75	1.81	0.00	0.07	0.02	0.01
Kathrien	800-10965	0.5	3.94	1.26	4.92	1.70	5.64	2.33	0.00	0.12	0.05	0.02
Kathrien	800-10965	0.5	3.94	1.26	4.92	1.70	5.64	2.33	0.00	0.12	0.05	0.02
Ericsoon	B5/B12 4449	1	1.91	1.20	1.06	1.48	1.49	1.96	0.00	0.08	0.01	0.01
Ericsson	B2/B66A 8843	1	1.59	1.20	1.27	1.49	1.72	1.97	0.00	0.08	0.01	0.01
Powerwave	LGP 21401	2	5.19	1.32	0.47	1.23	1.02	1.89	0.00	0.07	0.00	0.01



Company : B+T Group
 Designer : RP
 Job Number : 134498.001.01
 Model Name : 10035073 - Westport South CT2103

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Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Handrail	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
2	MF-H1	C5X6.7	Beam	Channel	A36 Gr.36	Typical	1.97	.47	7.48	.055
3	F1-V1	L13/4x13/4x1/4	Column	Single Angle	A36 Gr.36	Typical	.813	.227	.227	.015
4	F1-D1	L13/4x13/4x1/4	VBrace	Single Angle	A36 Gr.36	Typical	.813	.227	.227	.015
5	F1-CH1	C5X6.7	Beam	Channel	A36 Gr.36	Typical	1.97	.47	7.48	.055
6	MF-P1	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	F1-CA1	L13/4x13/4x1/4	Beam	Single Angle	A36 Gr.36	Typical	.813	.227	.227	.015

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N36	N33		180	Handrail	Beam	Single Angle	A36 Gr.36	Typical
2	M2	N34	N32		180	Handrail	Beam	Single Angle	A36 Gr.36	Typical
3	M3	N31	N35		180	Handrail	Beam	Single Angle	A36 Gr.36	Typical
4	M4	N1	N2		180	F1-CA1	Beam	Single Angle	A36 Gr.36	Typical
5	M5	N3	N7			F1-V1	Column	Single Angle	A36 Gr.36	Typical
6	M6	N4	N10		90	F1-V1	Column	Single Angle	A36 Gr.36	Typical
7	M7	N6	N5		90	F1-V1	Column	Single Angle	A36 Gr.36	Typical
8	M8	N6	N7		180	F1-D1	VBrace	Single Angle	A36 Gr.36	Typical
9	M9	N9	N8			F1-V1	Column	Single Angle	A36 Gr.36	Typical
10	M10	N9	N10		90	F1-D1	VBrace	Single Angle	A36 Gr.36	Typical
11	M11	N11	N12		180	F1-CA1	Beam	Single Angle	A36 Gr.36	Typical
12	M12	N13	N17		240	F1-V1	Column	Single Angle	A36 Gr.36	Typical
13	M13	N14	N20		330	F1-V1	Column	Single Angle	A36 Gr.36	Typical
14	M14	N16	N15		330	F1-V1	Column	Single Angle	A36 Gr.36	Typical
15	M15	N16	N17		180	F1-D1	VBrace	Single Angle	A36 Gr.36	Typical
16	M16	N19	N18		240	F1-V1	Column	Single Angle	A36 Gr.36	Typical
17	M17	N19	N20		90	F1-D1	VBrace	Single Angle	A36 Gr.36	Typical
18	M18	N21	N22		180	F1-CA1	Beam	Single Angle	A36 Gr.36	Typical
19	M19	N23	N27		120	F1-V1	Column	Single Angle	A36 Gr.36	Typical
20	M20	N24	N30		210	F1-V1	Column	Single Angle	A36 Gr.36	Typical
21	M21	N26	N25		210	F1-V1	Column	Single Angle	A36 Gr.36	Typical
22	M22	N26	N27		180	F1-D1	VBrace	Single Angle	A36 Gr.36	Typical
23	M23	N29	N28		120	F1-V1	Column	Single Angle	A36 Gr.36	Typical
24	M24	N29	N30		90	F1-D1	VBrace	Single Angle	A36 Gr.36	Typical
25	M31	N38	N39		180	F1-CH1	Beam	Channel	A36 Gr.36	Typical
26	M32	N40	N41		180	F1-CH1	Beam	Channel	A36 Gr.36	Typical
27	M33	N42	N43		180	F1-CH1	Beam	Channel	A36 Gr.36	Typical
28	M34	N44	N45			RIGID	None	None	RIGID	Typical
29	M35	N46	N47			MF-P1	Column	Pipe	A53 Gr.B	Typical
30	M36	N48	N49			RIGID	None	None	RIGID	Typical
31	M37	N50	N51			RIGID	None	None	RIGID	Typical
32	M38	N52	N53			MF-P1	Column	Pipe	A53 Gr.B	Typical
33	M39	N54	N55			RIGID	None	None	RIGID	Typical
34	M40	N56	N57			RIGID	None	None	RIGID	Typical
35	M41	N58	N59			MF-P1	Column	Pipe	A53 Gr.B	Typical
36	M42	N60	N61			RIGID	None	None	RIGID	Typical
37	M43	N62	N63			RIGID	None	None	RIGID	Typical
38	M44	N64	N65			MF-P1	Column	Pipe	A53 Gr.B	Typical
39	M45	N66	N67			RIGID	None	None	RIGID	Typical
40	M46	N68	N69			RIGID	None	None	RIGID	Typical
41	M47	N70	N71			MF-P1	Column	Pipe	A53 Gr.B	Typical
42	M48	N72	N73			RIGID	None	None	RIGID	Typical
43	M49	N74	N75			RIGID	None	None	RIGID	Typical
44	M50	N76	N77			MF-P1	Column	Pipe	A53 Gr.B	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
45	M51	N78	N79			RIGID	None	None	RIGID	Typical
46	M52	N80	N81			RIGID	None	None	RIGID	Typical
47	M53	N82	N83			MF-P1	Column	Pipe	A53 Gr.B	Typical
48	M54	N84	N85			RIGID	None	None	RIGID	Typical
49	M55	N86	N87			RIGID	None	None	RIGID	Typical
50	M56	N88	N89			MF-P1	Column	Pipe	A53 Gr.B	Typical
51	M57	N90	N91			RIGID	None	None	RIGID	Typical
52	M58	N92	N93			RIGID	None	None	RIGID	Typical
53	M59	N94	N95			MF-P1	Column	Pipe	A53 Gr.B	Typical
54	M60	N96	N97			RIGID	None	None	RIGID	Typical
55	M61	N98	N99			RIGID	None	None	RIGID	Typical
56	M62	N100	N101			MF-P1	Column	Pipe	A53 Gr.B	Typical
57	M63	N102	N103			RIGID	None	None	RIGID	Typical
58	M64	N104	N105			RIGID	None	None	RIGID	Typical
59	M65	N106	N107			MF-P1	Column	Pipe	A53 Gr.B	Typical
60	M66	N108	N109			RIGID	None	None	RIGID	Typical
61	M67	N110	N111			RIGID	None	None	RIGID	Typical
62	M68	N112	N113			MF-P1	Column	Pipe	A53 Gr.B	Typical
63	M69	N114	N115			RIGID	None	None	RIGID	Typical
64	M73	N122	N123		180	F1-CH1	Beam	Channel	A36 Gr.36	Typical
65	M74	N123	N124		180	F1-CH1	Beam	Channel	A36 Gr.36	Typical
66	M75	N132	N125			RIGID	None	None	RIGID	Typical
67	M76	N180	N126			RIGID	None	None	RIGID	Typical
68	M77	N176	N127			RIGID	None	None	RIGID	Typical
69	M78	N136	N128			RIGID	None	None	RIGID	Typical
70	M79	N129	N137			RIGID	None	None	RIGID	Typical
71	M80	N130	N139			RIGID	None	None	RIGID	Typical
72	M86	N139	N140			RIGID	None	None	RIGID	Typical
73	M87	N148	N141			RIGID	None	None	RIGID	Typical
74	M88	N174	N142			RIGID	None	None	RIGID	Typical
75	M89	N179	N143			RIGID	None	None	RIGID	Typical
76	M90	N152	N144			RIGID	None	None	RIGID	Typical
77	M91	N145	N153			RIGID	None	None	RIGID	Typical
78	M92	N146	N155			RIGID	None	None	RIGID	Typical
79	M98	N155	N156			RIGID	None	None	RIGID	Typical
80	M99	N164	N157			RIGID	None	None	RIGID	Typical
81	M100	N177	N158			RIGID	None	None	RIGID	Typical
82	M101	N173	N159			RIGID	None	None	RIGID	Typical
83	M102	N168	N160			RIGID	None	None	RIGID	Typical
84	M103	N161	N169			RIGID	None	None	RIGID	Typical
85	M104	N162	N171			RIGID	None	None	RIGID	Typical
86	M111	N175	N176A		180	MF-H1	Beam	Channel	A36 Gr.36	Typical
87	M112	N176B	N175		180	MF-H1	Beam	Channel	A36 Gr.36	Typical
88	M113	N178	N177A		180	MF-H1	Beam	Channel	A36 Gr.36	Typical
89	M114	N176A	N178		180	MF-H1	Beam	Channel	A36 Gr.36	Typical
90	M115	N181	N176B		180	MF-H1	Beam	Channel	A36 Gr.36	Typical
91	M116	N177A	N181		180	MF-H1	Beam	Channel	A36 Gr.36	Typical

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Dead	DL		-1			75	6	
2	0 Wind - No Ice	WLZ					75	47	
3	90 Wind - No Ice	WLX					75	47	
4	0 Wind - Ice	WLZ					75	47	
5	90 Wind - Ice	WLX					75	47	



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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
6	0 Wind - Service	WLZ					75	47	
7	90 Wind - Service	WLX					75	47	
8	Ice	OL1					75	47	6
9	Live Load a	LL				3			
10	Live Load b	LL				3			
11	Live Load c	LL				3			
12	Live Load d	LL				3			
13	Maint LL 1	LL					1		
14	Maint LL 2	LL					1		
15	Maint LL 3	LL					1		
16	Maint LL 4	LL					1		
17	Maint LL 5	LL					1		
18	Maint LL 6	LL					1		
19	Maint LL 7	LL					1		
20	Maint LL 8	LL					1		
21	Maint LL 9	LL					1		
22	Maint LL 10	LL					1		
23	Maint LL 11	LL					1		
24	Maint LL 12	LL					1		
25	Maint LL 13	LL					1		
26	Maint LL 14	LL					1		
27	Maint LL 15	LL					1		
28	Maint LL 16	LL							
29	Maint LL 17	LL							
30	Maint LL 18	LL							
31	BLC 1 Transient Area...	None						52	
32	BLC 8 Transient Area...	None						52	

Load Combinations

	Description	So...P...	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
1	1.4 Dead	Yes	Y	1	1.4								
2	1.2 D + 1.0 - 0 W	Yes	Y	1	1.2	2	1						
3	1.2 D + 1.0 - 30 W	Yes	Y	1	1.2	2	.866	3	.5				
4	1.2 D + 1.0 - 60 W	Yes	Y	1	1.2	3	.866	2	.5				
5	1.2 D + 1.0 - 90 W	Yes	Y	1	1.2	3	1						
6	1.2 D + 1.0 - 120 ...	Yes	Y	1	1.2	3	.866	2	-.5				
7	1.2 D + 1.0 - 150 ...	Yes	Y	1	1.2	2	-.866	3	.5				
8	1.2 D + 1.0 - 180 ...	Yes	Y	1	1.2	2	-1						
9	1.2 D + 1.0 - 210 ...	Yes	Y	1	1.2	2	-.866	3	-.5				
10	1.2 D + 1.0 - 240 ...	Yes	Y	1	1.2	3	-.866	2	-.5				
11	1.2 D + 1.0 - 270 ...	Yes	Y	1	1.2	3	-1						
12	1.2 D + 1.0 - 300 ...	Yes	Y	1	1.2	3	-.866	2	.5				
13	1.2 D + 1.0 - 330 ...	Yes	Y	1	1.2	2	.866	3	-.5				
14	1.2 D + 1.0 - 0 W/...	Yes	Y	1	1.2	4	1			8	1		
15	1.2 D + 1.0 - 30 ...	Yes	Y	1	1.2	4	.866	5	.5	8	1		
16	1.2 D + 1.0 - 60 ...	Yes	Y	1	1.2	5	.866	4	.5	8	1		
17	1.2 D + 1.0 - 90 ...	Yes	Y	1	1.2	5	1			8	1		
18	1.2 D + 1.0 - 120 ...	Yes	Y	1	1.2	5	.866	4	-.5	8	1		
19	1.2 D + 1.0 - 150 ...	Yes	Y	1	1.2	4	-.866	5	.5	8	1		
20	1.2 D + 1.0 - 180 ...	Yes	Y	1	1.2	4	-1			8	1		
21	1.2 D + 1.0 - 210 ...	Yes	Y	1	1.2	4	-.866	5	-.5	8	1		
22	1.2 D + 1.0 - 240 ...	Yes	Y	1	1.2	5	-.866	4	-.5	8	1		
23	1.2 D + 1.0 - 270 ...	Yes	Y	1	1.2	5	-1			8	1		
24	1.2 D + 1.0 - 300 ...	Yes	Y	1	1.2	5	-.866	4	.5	8	1		
25	1.2 D + 1.0 - 330 ...	Yes	Y	1	1.2	4	.866	5	-.5	8	1		



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Load Combinations (Continued)

	Description	So...	P...	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
26	1.2 D + 1.5 LL a ...	Yes	Y		1	1.2	6	1			9	1.5	
27	1.2 D + 1.5 LL a ...	Yes	Y		1	1.2	6	.866	7	.5	9	1.5	
28	1.2 D + 1.5 LL a ...	Yes	Y		1	1.2	7	.866	6	.5	9	1.5	
29	1.2 D + 1.5 LL a ...	Yes	Y		1	1.2	7	1			9	1.5	
30	1.2 D + 1.5 LL a ...	Yes	Y		1	1.2	7	.866	6	-.5	9	1.5	
31	1.2 D + 1.5 LL a ...	Yes	Y		1	1.2	6	-.866	7	.5	9	1.5	
32	1.2 D + 1.5 LL a ...	Yes	Y		1	1.2	6	-1			9	1.5	
33	1.2 D + 1.5 LL a ...	Yes	Y		1	1.2	6	-.866	7	-.5	9	1.5	
34	1.2 D + 1.5 LL a ...	Yes	Y		1	1.2	7	-.866	6	-.5	9	1.5	
35	1.2 D + 1.5 LL a ...	Yes	Y		1	1.2	7	-1			9	1.5	
36	1.2 D + 1.5 LL a ...	Yes	Y		1	1.2	7	-.866	6	.5	9	1.5	
37	1.2 D + 1.5 LL a ...	Yes	Y		1	1.2	6	.866	7	-.5	9	1.5	
38	1.2 D + 1.5 LL b ...	Yes	Y		1	1.2	6	1			10	1.5	
39	1.2 D + 1.5 LL b ...	Yes	Y		1	1.2	6	.866	7	.5	10	1.5	
40	1.2 D + 1.5 LL b ...	Yes	Y		1	1.2	7	.866	6	.5	10	1.5	
41	1.2 D + 1.5 LL b ...	Yes	Y		1	1.2	7	1			10	1.5	
42	1.2 D + 1.5 LL b ...	Yes	Y		1	1.2	7	.866	6	-.5	10	1.5	
43	1.2 D + 1.5 LL b ...	Yes	Y		1	1.2	6	-.866	7	.5	10	1.5	
44	1.2 D + 1.5 LL b ...	Yes	Y		1	1.2	6	-1			10	1.5	
45	1.2 D + 1.5 LL b ...	Yes	Y		1	1.2	6	-.866	7	-.5	10	1.5	
46	1.2 D + 1.5 LL b ...	Yes	Y		1	1.2	7	-.866	6	-.5	10	1.5	
47	1.2 D + 1.5 LL b ...	Yes	Y		1	1.2	7	-1			10	1.5	
48	1.2 D + 1.5 LL b ...	Yes	Y		1	1.2	7	-.866	6	.5	10	1.5	
49	1.2 D + 1.5 LL b ...	Yes	Y		1	1.2	6	.866	7	-.5	10	1.5	
50	1.2 D + 1.5 LL c +	Yes	Y		1	1.2	6	1			11	1.5	
51	1.2 D + 1.5 LL c +	Yes	Y		1	1.2	6	.866	7	.5	11	1.5	
52	1.2 D + 1.5 LL c +	Yes	Y		1	1.2	7	.866	6	.5	11	1.5	
53	1.2 D + 1.5 LL c +	Yes	Y		1	1.2	7	1			11	1.5	
54	1.2 D + 1.5 LL c +	Yes	Y		1	1.2	7	.866	6	-.5	11	1.5	
55	1.2 D + 1.5 LL c +	Yes	Y		1	1.2	6	-.866	7	.5	11	1.5	
56	1.2 D + 1.5 LL c +	Yes	Y		1	1.2	6	-1			11	1.5	
57	1.2 D + 1.5 LL c +	Yes	Y		1	1.2	6	-.866	7	-.5	11	1.5	
58	1.2 D + 1.5 LL c +	Yes	Y		1	1.2	7	-.866	6	-.5	11	1.5	
59	1.2 D + 1.5 LL c +	Yes	Y		1	1.2	7	-1			11	1.5	
60	1.2 D + 1.5 LL c +	Yes	Y		1	1.2	7	-.866	6	.5	11	1.5	
61	1.2 D + 1.5 LL c +	Yes	Y		1	1.2	6	.866	7	-.5	11	1.5	
62	1.2 D + 1.5 LL d ...	Yes	Y		1	1.2	6	1			12	1.5	
63	1.2 D + 1.5 LL d ...	Yes	Y		1	1.2	6	.866	7	.5	12	1.5	
64	1.2 D + 1.5 LL d ...	Yes	Y		1	1.2	7	.866	6	.5	12	1.5	
65	1.2 D + 1.5 LL d ...	Yes	Y		1	1.2	7	1			12	1.5	
66	1.2 D + 1.5 LL d ...	Yes	Y		1	1.2	7	.866	6	-.5	12	1.5	
67	1.2 D + 1.5 LL d ...	Yes	Y		1	1.2	6	-.866	7	.5	12	1.5	
68	1.2 D + 1.5 LL d ...	Yes	Y		1	1.2	6	-1			12	1.5	
69	1.2 D + 1.5 LL d ...	Yes	Y		1	1.2	6	-.866	7	-.5	12	1.5	
70	1.2 D + 1.5 LL d ...	Yes	Y		1	1.2	7	-.866	6	-.5	12	1.5	
71	1.2 D + 1.5 LL d ...	Yes	Y		1	1.2	7	-1			12	1.5	
72	1.2 D + 1.5 LL d ...	Yes	Y		1	1.2	7	-.866	6	.5	12	1.5	
73	1.2 D + 1.5 LL d ...	Yes	Y		1	1.2	6	.866	7	-.5	12	1.5	
74	1.2 D + 1.5 LL M...	Yes	Y		1	1.2					13	1.5	
75	1.2 D + 1.5 LL M...	Yes	Y		1	1.2					14	1.5	
76	1.2 D + 1.5 LL M...	Yes	Y		1	1.2					15	1.5	
77	1.2 D + 1.5 LL M...	Yes	Y		1	1.2					16	1.5	
78	1.2 D + 1.5 LL M...	Yes	Y		1	1.2					17	1.5	
79	1.2 D + 1.5 LL M...	Yes	Y		1	1.2					18	1.5	
80	1.2 D + 1.5 LL M...	Yes	Y		1	1.2					19	1.5	
81	1.2 D + 1.5 LL M...	Yes	Y		1	1.2					20	1.5	
82	1.2 D + 1.5 LL M...	Yes	Y		1	1.2					21	1.5	



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Load Combinations (Continued)

Description	So...	P...	S...	BLC Fac..	BLC Fac..	BLC Fac..	BLC Fac..	BLC Fac..	BLC Fac..	BLC Fac..	BLC Fac..	BLC Fac..	BLC Fac..	BLC Fac..
83	1.2 D + 1.5 LL M...	Yes	Y	1	1.2				22	1.5				
84	1.2 D + 1.5 LL M...	Yes	Y	1	1.2				23	1.5				
85	1.2 D + 1.5 LL M...	Yes	Y	1	1.2				24	1.5				
86	1.2 D + 1.5 LL M...	Yes	Y	1	1.2				25	1.5				
87	1.2 D + 1.5 LL M...	Yes	Y	1	1.2				26	1.5				
88	1.2 D + 1.5 LL M...	Yes	Y	1	1.2				27	1.5				
89	1.2 D + 1.5 LL M...	Yes	Y	1	1.2				28	1.5				
90	1.2 D + 1.5 LL M...	Yes	Y	1	1.2				29	1.5				
91	1.2 D + 1.5 LL M...	Yes	Y	1	1.2				30	1.5				

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M19	Y	-0.33	%50
2	M19	Y	0	0
3	M19	Y	0	0
4	M19	Y	0	0
5	M19	Y	0	0
6	M6	Y	-0.33	%50
7	M6	Y	0	0
8	M6	Y	0	0
9	M6	Y	0	0
10	M6	Y	0	0
11	M12	Y	-0.33	%50
12	M12	Y	0	0
13	M12	Y	0	0
14	M12	Y	0	0
15	M12	Y	0	0
16	M44	Y	-0.18	%5
17	M44	Y	-0.18	%60
18	M44	Y	0	0
19	M44	Y	0	0
20	M44	Y	0	0
21	M41	Y	-0.56	%10
22	M41	Y	-0.56	%90
23	M41	Y	-0.51	%60
24	M41	Y	-0.55	%20
25	M41	Y	0	0
26	M35	Y	-0.54	%5
27	M35	Y	-0.54	%95
28	M35	Y	-0.07	%50
29	M35	Y	-0.75	%50
30	M35	Y	0	0
31	M10	Y	-0.35	%50
32	M10	Y	0	0
33	M10	Y	0	0
34	M10	Y	0	0
35	M10	Y	0	0
36	M68	Y	-0.18	%5
37	M68	Y	-0.18	%55
38	M68	Y	0	0
39	M68	Y	0	0
40	M68	Y	0	0
41	M65	Y	-0.56	%10
42	M65	Y	-0.56	%90
43	M65	Y	-0.51	%60



Member Point Loads (BLC 1 : Dead) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
44	M65	Y	-0.55	%20
45	M65	Y	0	0
46	M59	Y	-0.54	%5
47	M59	Y	-0.54	%95
48	M59	Y	-0.7	%50
49	M59	Y	-0.75	%50
50	M59	Y	0	0
51	M24	Y	-0.35	%50
52	M24	Y	0	0
53	M24	Y	0	0
54	M24	Y	0	0
55	M24	Y	0	0
56	M56	Y	-0.18	%5
57	M56	Y	-0.18	%55
58	M56	Y	0	0
59	M56	Y	0	0
60	M56	Y	0	0
61	M53	Y	-0.56	%10
62	M53	Y	-0.56	%90
63	M53	Y	-0.51	%60
64	M53	Y	-0.55	%20
65	M53	Y	0	0
66	M47	Y	-0.54	%5
67	M47	Y	-0.54	%95
68	M47	Y	-0.7	%50
69	M47	Y	-0.75	%50
70	M47	Y	0	0
71	M17	Y	-0.35	%50
72	M17	Y	0	0
73	M17	Y	0	0
74	M17	Y	0	0
75	M17	Y	0	0

Member Point Loads (BLC 2 : 0 Wind - No Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M19	Z	-0.55	%50
2	M19	Z	0	0
3	M19	Z	0	0
4	M19	Z	0	0
5	M19	Z	0	0
6	M6	Z	-0.55	%50
7	M6	Z	0	0
8	M6	Z	0	0
9	M6	Z	0	0
10	M6	Z	0	0
11	M12	Z	-0.55	%50
12	M12	Z	0	0
13	M12	Z	0	0
14	M12	Z	0	0
15	M12	Z	0	0
16	M44	Z	-1.12	%5
17	M44	Z	-1.12	%60
18	M44	Z	0	0
19	M44	Z	0	0
20	M44	Z	0	0
21	M41	Z	-1.66	%10



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Member Point Loads (BLC 2 : 0 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
22	M41	Z	-.166	%90
23	M41	Z	-.035	%60
24	M41	Z	-.117	%20
25	M41	Z	0	0
26	M35	Z	-.282	%5
27	M35	Z	-.282	%95
28	M35	Z	-.058	%50
29	M35	Z	-.069	%50
30	M35	Z	0	0
31	M10	Z	-.028	%50
32	M10	Z	0	0
33	M10	Z	0	0
34	M10	Z	0	0
35	M10	Z	0	0
36	M68	Z	-.112	%5
37	M68	Z	-.112	%55
38	M68	Z	0	0
39	M68	Z	0	0
40	M68	Z	0	0
41	M65	Z	-.166	%10
42	M65	Z	-.166	%90
43	M65	Z	-.035	%60
44	M65	Z	-.117	%20
45	M65	Z	0	0
46	M59	Z	-.282	%5
47	M59	Z	-.282	%95
48	M59	Z	-.058	%50
49	M59	Z	-.069	%50
50	M59	Z	0	0
51	M24	Z	-.028	%50
52	M24	Z	0	0
53	M24	Z	0	0
54	M24	Z	0	0
55	M24	Z	0	0
56	M56	Z	-.112	%5
57	M56	Z	-.112	%55
58	M56	Z	0	0
59	M56	Z	0	0
60	M56	Z	0	0
61	M53	Z	-.166	%10
62	M53	Z	-.166	%90
63	M53	Z	-.035	%60
64	M53	Z	-.117	%20
65	M53	Z	0	0
66	M47	Z	-.282	%5
67	M47	Z	-.282	%95
68	M47	Z	-.058	%50
69	M47	Z	-.069	%50
70	M47	Z	0	0
71	M17	Z	-.028	%50
72	M17	Z	0	0
73	M17	Z	0	0
74	M17	Z	0	0
75	M17	Z	0	0

Member Point Loads (BLC 3 : 90 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
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Member Point Loads (BLC 3 : 90 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M19	X	-.055	%50
2	M19	X	0	0
3	M19	X	0	0
4	M19	X	0	0
5	M19	X	0	0
6	M6	X	-.055	%50
7	M6	X	0	0
8	M6	X	0	0
9	M6	X	0	0
10	M6	X	0	0
11	M12	X	-.055	%50
12	M12	X	0	0
13	M12	X	0	0
14	M12	X	0	0
15	M12	X	0	0
16	M44	X	-.06	%5
17	M44	X	-.06	%60
18	M44	X	0	0
19	M44	X	0	0
20	M44	X	0	0
21	M41	X	-.139	%10
22	M41	X	-.139	%90
23	M41	X	-.034	%60
24	M41	X	-.072	%20
25	M41	X	0	0
26	M35	X	-.119	%5
27	M35	X	-.119	%95
28	M35	X	-.081	%50
29	M35	X	-.081	%50
30	M35	X	0	0
31	M10	X	-.067	%50
32	M10	X	0	0
33	M10	X	0	0
34	M10	X	0	0
35	M10	X	0	0
36	M68	X	-.06	%5
37	M68	X	-.06	%55
38	M68	X	0	0
39	M68	X	0	0
40	M68	X	0	0
41	M65	X	-.139	%10
42	M65	X	-.139	%90
43	M65	X	-.034	%60
44	M65	X	-.072	%20
45	M65	X	0	0
46	M59	X	-.119	%5
47	M59	X	-.119	%95
48	M59	X	-.081	%50
49	M59	X	-.081	%50
50	M59	X	0	0
51	M24	X	-.067	%50
52	M24	X	0	0
53	M24	X	0	0
54	M24	X	0	0
55	M24	X	0	0
56	M56	X	-.06	%5
57	M56	X	-.06	%55



Member Point Loads (BLC 3 : 90 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	M56	X	0	0
59	M56	X	0	0
60	M56	X	0	0
61	M53	X	-.139	%10
62	M53	X	-.139	%90
63	M53	X	-.034	%60
64	M53	X	-.072	%20
65	M53	X	0	0
66	M47	X	-.119	%5
67	M47	X	-.119	%95
68	M47	X	-.081	%50
69	M47	X	-.081	%50
70	M47	X	0	0
71	M17	X	-.067	%50
72	M17	X	0	0
73	M17	X	0	0
74	M17	X	0	0
75	M17	X	0	0

Member Point Loads (BLC 4 : 0 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M19	Z	-.01	%50
2	M19	Z	0	0
3	M19	Z	0	0
4	M19	Z	0	0
5	M19	Z	0	0
6	M6	Z	-.01	%50
7	M6	Z	0	0
8	M6	Z	0	0
9	M6	Z	0	0
10	M6	Z	0	0
11	M12	Z	-.01	%50
12	M12	Z	0	0
13	M12	Z	0	0
14	M12	Z	0	0
15	M12	Z	0	0
16	M44	Z	-.02	%5
17	M44	Z	-.02	%60
18	M44	Z	0	0
19	M44	Z	0	0
20	M44	Z	0	0
21	M41	Z	-.029	%10
22	M41	Z	-.029	%90
23	M41	Z	-.006	%60
24	M41	Z	-.021	%20
25	M41	Z	0	0
26	M35	Z	-.05	%5
27	M35	Z	-.05	%95
28	M35	Z	-.01	%50
29	M35	Z	-.012	%50
30	M35	Z	0	0
31	M10	Z	-.005	%50
32	M10	Z	0	0
33	M10	Z	0	0
34	M10	Z	0	0
35	M10	Z	0	0



Member Point Loads (BLC 4 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
36	M68	Z	-02	%5
37	M68	Z	-02	%55
38	M68	Z	0	0
39	M68	Z	0	0
40	M68	Z	0	0
41	M65	Z	-029	%10
42	M65	Z	-029	%90
43	M65	Z	-006	%60
44	M65	Z	-021	%20
45	M65	Z	0	0
46	M59	Z	-05	%5
47	M59	Z	-05	%95
48	M59	Z	-01	%50
49	M59	Z	-012	%50
50	M59	Z	0	0
51	M24	Z	-005	%50
52	M24	Z	0	0
53	M24	Z	0	0
54	M24	Z	0	0
55	M24	Z	0	0
56	M56	Z	-02	%5
57	M56	Z	-02	%55
58	M56	Z	0	0
59	M56	Z	0	0
60	M56	Z	0	0
61	M53	Z	-029	%10
62	M53	Z	-029	%90
63	M53	Z	-006	%60
64	M53	Z	-021	%20
65	M53	Z	0	0
66	M47	Z	-05	%5
67	M47	Z	-05	%95
68	M47	Z	-01	%50
69	M47	Z	-012	%50
70	M47	Z	0	0
71	M17	Z	-005	%50
72	M17	Z	0	0
73	M17	Z	0	0
74	M17	Z	0	0
75	M17	Z	0	0

Member Point Loads (BLC 5 : 90 Wind - Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M19	X	-01	%50
2	M19	X	0	0
3	M19	X	0	0
4	M19	X	0	0
5	M19	X	0	0
6	M6	X	-01	%50
7	M6	X	0	0
8	M6	X	0	0
9	M6	X	0	0
10	M6	X	0	0
11	M12	X	-01	%50
12	M12	X	0	0
13	M12	X	0	0



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Member Point Loads (BLC 5 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
14	M12	X	0	0
15	M12	X	0	0
16	M44	X	-.011	%5
17	M44	X	-.011	%60
18	M44	X	0	0
19	M44	X	0	0
20	M44	X	0	0
21	M41	X	-.025	%10
22	M41	X	-.025	%90
23	M41	X	-.006	%60
24	M41	X	-.013	%20
25	M41	X	0	0
26	M35	X	-.021	%5
27	M35	X	-.021	%95
28	M35	X	-.015	%50
29	M35	X	-.015	%50
30	M35	X	0	0
31	M10	X	-.012	%50
32	M10	X	0	0
33	M10	X	0	0
34	M10	X	0	0
35	M10	X	0	0
36	M68	X	-.011	%5
37	M68	X	-.011	%55
38	M68	X	0	0
39	M68	X	0	0
40	M68	X	0	0
41	M65	X	-.025	%10
42	M65	X	-.025	%90
43	M65	X	-.006	%60
44	M65	X	-.013	%20
45	M65	X	0	0
46	M59	X	-.021	%5
47	M59	X	-.021	%95
48	M59	X	-.015	%50
49	M59	X	-.015	%50
50	M59	X	0	0
51	M24	X	-.012	%50
52	M24	X	0	0
53	M24	X	0	0
54	M24	X	0	0
55	M24	X	0	0
56	M56	X	-.011	%5
57	M56	X	-.011	%55
58	M56	X	0	0
59	M56	X	0	0
60	M56	X	0	0
61	M53	X	-.025	%10
62	M53	X	-.025	%90
63	M53	X	-.006	%60
64	M53	X	-.013	%20
65	M53	X	0	0
66	M47	X	-.021	%5
67	M47	X	-.021	%95
68	M47	X	-.015	%50
69	M47	X	-.015	%50
70	M47	X	0	0



Member Point Loads (BLC 5 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
71	M17	X	-0.12	%50
72	M17	X	0	0
73	M17	X	0	0
74	M17	X	0	0
75	M17	X	0	0

Member Point Loads (BLC 6 : 0 Wind - Service)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M19	Z	-0.004	%50
2	M19	Z	0	0
3	M19	Z	0	0
4	M19	Z	0	0
5	M19	Z	0	0
6	M6	Z	-0.004	%50
7	M6	Z	0	0
8	M6	Z	0	0
9	M6	Z	0	0
10	M6	Z	0	0
11	M12	Z	-0.004	%50
12	M12	Z	0	0
13	M12	Z	0	0
14	M12	Z	0	0
15	M12	Z	0	0
16	M44	Z	-0.007	%5
17	M44	Z	-0.007	%60
18	M44	Z	0	0
19	M44	Z	0	0
20	M44	Z	0	0
21	M41	Z	-0.011	%10
22	M41	Z	-0.011	%90
23	M41	Z	-0.002	%60
24	M41	Z	-0.007	%20
25	M41	Z	0	0
26	M35	Z	-0.018	%5
27	M35	Z	-0.018	%95
28	M35	Z	-0.004	%50
29	M35	Z	-0.004	%50
30	M35	Z	0	0
31	M10	Z	-0.002	%50
32	M10	Z	0	0
33	M10	Z	0	0
34	M10	Z	0	0
35	M10	Z	0	0
36	M68	Z	-0.007	%5
37	M68	Z	-0.007	%55
38	M68	Z	0	0
39	M68	Z	0	0
40	M68	Z	0	0
41	M65	Z	-0.011	%10
42	M65	Z	-0.011	%90
43	M65	Z	-0.002	%60
44	M65	Z	-0.007	%20
45	M65	Z	0	0
46	M59	Z	-0.018	%5
47	M59	Z	-0.018	%95
48	M59	Z	-0.004	%50



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Member Point Loads (BLC 6 : 0 Wind - Service) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
49	M59	Z	-.004	%50
50	M59	Z	0	0
51	M24	Z	-.002	%50
52	M24	Z	0	0
53	M24	Z	0	0
54	M24	Z	0	0
55	M24	Z	0	0
56	M56	Z	-.007	%5
57	M56	Z	-.007	%55
58	M56	Z	0	0
59	M56	Z	0	0
60	M56	Z	0	0
61	M53	Z	-.011	%10
62	M53	Z	-.011	%90
63	M53	Z	-.002	%60
64	M53	Z	-.007	%20
65	M53	Z	0	0
66	M47	Z	-.018	%5
67	M47	Z	-.018	%95
68	M47	Z	-.004	%50
69	M47	Z	-.004	%50
70	M47	Z	0	0
71	M17	Z	-.002	%50
72	M17	Z	0	0
73	M17	Z	0	0
74	M17	Z	0	0
75	M17	Z	0	0

Member Point Loads (BLC 7 : 90 Wind - Service)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M19	X	-.004	%50
2	M19	X	0	0
3	M19	X	0	0
4	M19	X	0	0
5	M19	X	0	0
6	M6	X	-.004	%50
7	M6	X	0	0
8	M6	X	0	0
9	M6	X	0	0
10	M6	X	0	0
11	M12	X	-.004	%50
12	M12	X	0	0
13	M12	X	0	0
14	M12	X	0	0
15	M12	X	0	0
16	M44	X	-.004	%5
17	M44	X	-.004	%60
18	M44	X	0	0
19	M44	X	0	0
20	M44	X	0	0
21	M41	X	-.009	%10
22	M41	X	-.009	%90
23	M41	X	-.002	%60
24	M41	X	-.005	%20
25	M41	X	0	0
26	M35	X	-.008	%5



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Member Point Loads (BLC 7 : 90 Wind - Service) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
27	M35	X	-0.008	%95
28	M35	X	-0.005	%50
29	M35	X	-0.005	%50
30	M35	X	0	0
31	M10	X	-0.004	%50
32	M10	X	0	0
33	M10	X	0	0
34	M10	X	0	0
35	M10	X	0	0
36	M68	X	-0.004	%5
37	M68	X	-0.004	%55
38	M68	X	0	0
39	M68	X	0	0
40	M68	X	0	0
41	M65	X	-0.009	%10
42	M65	X	-0.009	%90
43	M65	X	-0.002	%60
44	M65	X	-0.005	%20
45	M65	X	0	0
46	M59	X	-0.008	%5
47	M59	X	-0.008	%95
48	M59	X	-0.005	%50
49	M59	X	-0.005	%50
50	M59	X	0	0
51	M24	X	-0.004	%50
52	M24	X	0	0
53	M24	X	0	0
54	M24	X	0	0
55	M24	X	0	0
56	M56	X	-0.004	%5
57	M56	X	-0.004	%55
58	M56	X	0	0
59	M56	X	0	0
60	M56	X	0	0
61	M53	X	-0.009	%10
62	M53	X	-0.009	%90
63	M53	X	-0.002	%60
64	M53	X	-0.005	%20
65	M53	X	0	0
66	M47	X	-0.008	%5
67	M47	X	-0.008	%95
68	M47	X	-0.005	%50
69	M47	X	-0.005	%50
70	M47	X	0	0
71	M17	X	-0.004	%50
72	M17	X	0	0
73	M17	X	0	0
74	M17	X	0	0
75	M17	X	0	0

Member Point Loads (BLC 8 : Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	M19	Y	-0.044	%50
2	M19	Y	0	0
3	M19	Y	0	0
4	M19	Y	0	0



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Member Point Loads (BLC 8 : Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
5	M19	Y	0	0
6	M6	Y	-.044	%50
7	M6	Y	0	0
8	M6	Y	0	0
9	M6	Y	0	0
10	M6	Y	0	0
11	M12	Y	-.044	%50
12	M12	Y	0	0
13	M12	Y	0	0
14	M12	Y	0	0
15	M12	Y	0	0
16	M44	Y	-.043	%5
17	M44	Y	-.043	%60
18	M44	Y	0	0
19	M44	Y	0	0
20	M44	Y	0	0
21	M41	Y	-.07	%10
22	M41	Y	-.07	%90
23	M41	Y	-.019	%60
24	M41	Y	-.05	%20
25	M41	Y	0	0
26	M35	Y	-.102	%5
27	M35	Y	-.102	%95
28	M35	Y	-.036	%50
29	M35	Y	-.039	%50
30	M35	Y	0	0
31	M10	Y	-.028	%50
32	M10	Y	0	0
33	M10	Y	0	0
34	M10	Y	0	0
35	M10	Y	0	0
36	M68	Y	-.043	%5
37	M68	Y	-.043	%55
38	M68	Y	0	0
39	M68	Y	0	0
40	M68	Y	0	0
41	M65	Y	-.07	%10
42	M65	Y	-.07	%90
43	M65	Y	-.019	%60
44	M65	Y	-.05	%20
45	M65	Y	0	0
46	M59	Y	-.102	%5
47	M59	Y	-.102	%95
48	M59	Y	-.036	%50
49	M59	Y	-.039	%50
50	M59	Y	0	0
51	M24	Y	-.028	%50
52	M24	Y	0	0
53	M24	Y	0	0
54	M24	Y	0	0
55	M24	Y	0	0
56	M56	Y	-.043	%5
57	M56	Y	-.043	%55
58	M56	Y	0	0
59	M56	Y	0	0
60	M56	Y	0	0
61	M53	Y	-.07	%10



Member Point Loads (BLC 8 : Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
62	M53	Y	-07	%90
63	M53	Y	-019	%60
64	M53	Y	-05	%20
65	M53	Y	0	0
66	M47	Y	-102	%5
67	M47	Y	-102	%95
68	M47	Y	-036	%50
69	M47	Y	-039	%50
70	M47	Y	0	0
71	M17	Y	-028	%50
72	M17	Y	0	0
73	M17	Y	0	0
74	M17	Y	0	0
75	M17	Y	0	0

Member Point Loads (BLC 13 : Maint LL 1)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M1	Y	-25	%5

Member Point Loads (BLC 14 : Maint LL 2)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M112	Y	-25	%5

Member Point Loads (BLC 15 : Maint LL 3)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M3	Y	-25	%5

Member Point Loads (BLC 16 : Maint LL 4)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M116	Y	-25	%5

Member Point Loads (BLC 17 : Maint LL 5)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M2	Y	-25	%95

Member Point Loads (BLC 18 : Maint LL 6)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M113	Y	-25	%95

Member Point Loads (BLC 19 : Maint LL 7)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M1	Y	-25	%95

Member Point Loads (BLC 20 : Maint LL 8)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M111	Y	-25	%95

Member Point Loads (BLC 21 : Maint LL 9)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M3	Y	-25	%95



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Member Point Loads (BLC 22 : Maint LL 10)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M115	Y	-0.25	%95

Member Point Loads (BLC 23 : Maint LL 11)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M2	Y	-0.25	%5

Member Point Loads (BLC 24 : Maint LL 12)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M114	Y	-0.25	%5

Member Point Loads (BLC 25 : Maint LL 13)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M32	Y	-0.25	%50

Member Point Loads (BLC 26 : Maint LL 14)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M31	Y	-0.25	%50

Member Point Loads (BLC 27 : Maint LL 15)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M33	Y	-0.25	%50

Member Distributed Loads (BLC 2 : 0 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Z	-0.02	-0.02	0	0
2	M2	Z	-0.02	-0.02	0	0
3	M3	Z	-0.02	-0.02	0	0
4	M4	Z	-0.012	-0.012	0	0
5	M5	Z	-0.011	-0.011	0	0
6	M6	Z	-0.011	-0.011	0	0
7	M7	Z	-0.011	-0.011	0	0
8	M8	Z	-0.012	-0.012	0	0
9	M9	Z	-0.011	-0.011	0	0
10	M10	Z	-0.012	-0.012	0	0
11	M11	Z	-0.012	-0.012	0	0
12	M12	Z	-0.011	-0.011	0	0
13	M13	Z	-0.011	-0.011	0	0
14	M14	Z	-0.011	-0.011	0	0
15	M15	Z	-0.012	-0.012	0	0
16	M16	Z	-0.011	-0.011	0	0
17	M17	Z	-0.012	-0.012	0	0
18	M18	Z	-0.012	-0.012	0	0
19	M19	Z	-0.011	-0.011	0	0
20	M20	Z	-0.011	-0.011	0	0
21	M21	Z	-0.011	-0.011	0	0
22	M22	Z	-0.012	-0.012	0	0
23	M23	Z	-0.011	-0.011	0	0
24	M24	Z	-0.012	-0.012	0	0
25	M31	Z	-0.026	-0.026	0	0
26	M32	Z	-0.026	-0.026	0	0
27	M33	Z	-0.026	-0.026	0	0
28	M35	Z	-0.01	-0.01	0	0
29	M38	Z	-0.01	-0.01	0	0



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Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft, %]	End Location[ft, %]
30	M41	Z	-01	-01	0	0
31	M44	Z	-01	-01	0	0
32	M47	Z	-01	-01	0	0
33	M50	Z	-01	-01	0	0
34	M53	Z	-01	-01	0	0
35	M56	Z	-01	-01	0	0
36	M59	Z	-01	-01	0	0
37	M62	Z	-01	-01	0	0
38	M65	Z	-01	-01	0	0
39	M68	Z	-01	-01	0	0
40	M73	Z	-022	-022	0	0
41	M74	Z	-022	-022	0	0
42	M111	Z	-026	-026	0	0
43	M112	Z	-026	-026	0	0
44	M113	Z	-026	-026	0	0
45	M114	Z	-026	-026	0	0
46	M115	Z	-026	-026	0	0
47	M116	Z	-026	-026	0	0

Member Distributed Loads (BLC 3 : 90 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-02	-02	0	0
2	M2	X	-02	-02	0	0
3	M3	X	-02	-02	0	0
4	M4	X	-012	-012	0	0
5	M5	X	-011	-011	0	0
6	M6	X	-011	-011	0	0
7	M7	X	-011	-011	0	0
8	M8	X	-012	-012	0	0
9	M9	X	-011	-011	0	0
10	M10	X	-012	-012	0	0
11	M11	X	-012	-012	0	0
12	M12	X	-011	-011	0	0
13	M13	X	-011	-011	0	0
14	M14	X	-011	-011	0	0
15	M15	X	-012	-012	0	0
16	M16	X	-011	-011	0	0
17	M17	X	-012	-012	0	0
18	M18	X	-012	-012	0	0
19	M19	X	-011	-011	0	0
20	M20	X	-011	-011	0	0
21	M21	X	-011	-011	0	0
22	M22	X	-012	-012	0	0
23	M23	X	-011	-011	0	0
24	M24	X	-012	-012	0	0
25	M31	X	-026	-026	0	0
26	M32	X	-026	-026	0	0
27	M33	X	-026	-026	0	0
28	M35	X	-01	-01	0	0
29	M38	X	-01	-01	0	0
30	M41	X	-01	-01	0	0
31	M44	X	-01	-01	0	0
32	M47	X	-01	-01	0	0
33	M50	X	-01	-01	0	0
34	M53	X	-01	-01	0	0
35	M56	X	-01	-01	0	0



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Member Distributed Loads (BLC 3 : 90 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft, %]	End Location[ft, %]
36	M59	X	-01	-01	0	0
37	M62	X	-01	-01	0	0
38	M65	X	-01	-01	0	0
39	M68	X	-01	-01	0	0
40	M73	X	-022	-022	0	0
41	M74	X	-022	-022	0	0
42	M111	X	-026	-026	0	0
43	M112	X	-026	-026	0	0
44	M113	X	-026	-026	0	0
45	M114	X	-026	-026	0	0
46	M115	X	-026	-026	0	0
47	M116	X	-026	-026	0	0

Member Distributed Loads (BLC 4 : 0 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft, %]	End Location[ft, %]
1	M1	Z	-007	-007	0	0
2	M2	Z	-007	-007	0	0
3	M3	Z	-007	-007	0	0
4	M4	Z	-005	-005	0	0
5	M5	Z	-005	-005	0	0
6	M6	Z	-005	-005	0	0
7	M7	Z	-005	-005	0	0
8	M8	Z	-005	-005	0	0
9	M9	Z	-005	-005	0	0
10	M10	Z	-005	-005	0	0
11	M11	Z	-005	-005	0	0
12	M12	Z	-005	-005	0	0
13	M13	Z	-005	-005	0	0
14	M14	Z	-005	-005	0	0
15	M15	Z	-005	-005	0	0
16	M16	Z	-005	-005	0	0
17	M17	Z	-005	-005	0	0
18	M18	Z	-005	-005	0	0
19	M19	Z	-005	-005	0	0
20	M20	Z	-005	-005	0	0
21	M21	Z	-005	-005	0	0
22	M22	Z	-005	-005	0	0
23	M23	Z	-005	-005	0	0
24	M24	Z	-005	-005	0	0
25	M31	Z	-007	-007	0	0
26	M32	Z	-007	-007	0	0
27	M33	Z	-007	-007	0	0
28	M35	Z	-002	-002	0	0
29	M38	Z	-002	-002	0	0
30	M41	Z	-002	-002	0	0
31	M44	Z	-002	-002	0	0
32	M47	Z	-002	-002	0	0
33	M50	Z	-002	-002	0	0
34	M53	Z	-002	-002	0	0
35	M56	Z	-002	-002	0	0
36	M59	Z	-002	-002	0	0
37	M62	Z	-002	-002	0	0
38	M65	Z	-002	-002	0	0
39	M68	Z	-002	-002	0	0
40	M73	Z	-006	-006	0	0
41	M74	Z	-006	-006	0	0



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Member Distributed Loads (BLC 4 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,....	End Magnitude[k/ft,F,....	Start Location[ft,.%]	End Location[ft,.%]
42	M111	Z	-0.07	-0.07	0	0
43	M112	Z	-0.07	-0.07	0	0
44	M113	Z	-0.07	-0.07	0	0
45	M114	Z	-0.07	-0.07	0	0
46	M115	Z	-0.07	-0.07	0	0
47	M116	Z	-0.07	-0.07	0	0

Member Distributed Loads (BLC 5 : 90 Wind - Ice)

	Member Label	Direction	Start Magnitude[k/ft,....	End Magnitude[k/ft,F,....	Start Location[ft,.%]	End Location[ft,.%]
1	M1	X	-0.07	-0.07	0	0
2	M2	X	-0.07	-0.07	0	0
3	M3	X	-0.07	-0.07	0	0
4	M4	X	-0.05	-0.05	0	0
5	M5	X	-0.05	-0.05	0	0
6	M6	X	-0.05	-0.05	0	0
7	M7	X	-0.05	-0.05	0	0
8	M8	X	-0.05	-0.05	0	0
9	M9	X	-0.05	-0.05	0	0
10	M10	X	-0.05	-0.05	0	0
11	M11	X	-0.05	-0.05	0	0
12	M12	X	-0.05	-0.05	0	0
13	M13	X	-0.05	-0.05	0	0
14	M14	X	-0.05	-0.05	0	0
15	M15	X	-0.05	-0.05	0	0
16	M16	X	-0.05	-0.05	0	0
17	M17	X	-0.05	-0.05	0	0
18	M18	X	-0.05	-0.05	0	0
19	M19	X	-0.05	-0.05	0	0
20	M20	X	-0.05	-0.05	0	0
21	M21	X	-0.05	-0.05	0	0
22	M22	X	-0.05	-0.05	0	0
23	M23	X	-0.05	-0.05	0	0
24	M24	X	-0.05	-0.05	0	0
25	M31	X	-0.07	-0.07	0	0
26	M32	X	-0.07	-0.07	0	0
27	M33	X	-0.07	-0.07	0	0
28	M35	X	-0.02	-0.02	0	0
29	M38	X	-0.02	-0.02	0	0
30	M41	X	-0.02	-0.02	0	0
31	M44	X	-0.02	-0.02	0	0
32	M47	X	-0.02	-0.02	0	0
33	M50	X	-0.02	-0.02	0	0
34	M53	X	-0.02	-0.02	0	0
35	M56	X	-0.02	-0.02	0	0
36	M59	X	-0.02	-0.02	0	0
37	M62	X	-0.02	-0.02	0	0
38	M65	X	-0.02	-0.02	0	0
39	M68	X	-0.02	-0.02	0	0
40	M73	X	-0.06	-0.06	0	0
41	M74	X	-0.06	-0.06	0	0
42	M111	X	-0.07	-0.07	0	0
43	M112	X	-0.07	-0.07	0	0
44	M113	X	-0.07	-0.07	0	0
45	M114	X	-0.07	-0.07	0	0
46	M115	X	-0.07	-0.07	0	0
47	M116	X	-0.07	-0.07	0	0



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Member Distributed Loads (BLC 6 : 0 Wind - Service)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft, %]	End Location[ft, %]
1	M1	Z	-0.001	-0.001	0	0
2	M2	Z	-0.001	-0.001	0	0
3	M3	Z	-0.001	-0.001	0	0
4	M4	Z	-0.0008	-0.0008	0	0
5	M5	Z	-0.0007	-0.0007	0	0
6	M6	Z	-0.0007	-0.0007	0	0
7	M7	Z	-0.0007	-0.0007	0	0
8	M8	Z	-0.0008	-0.0008	0	0
9	M9	Z	-0.0007	-0.0007	0	0
10	M10	Z	-0.0008	-0.0008	0	0
11	M11	Z	-0.0008	-0.0008	0	0
12	M12	Z	-0.0007	-0.0007	0	0
13	M13	Z	-0.0007	-0.0007	0	0
14	M14	Z	-0.0007	-0.0007	0	0
15	M15	Z	-0.0008	-0.0008	0	0
16	M16	Z	-0.0007	-0.0007	0	0
17	M17	Z	-0.0008	-0.0008	0	0
18	M18	Z	-0.0008	-0.0008	0	0
19	M19	Z	-0.0007	-0.0007	0	0
20	M20	Z	-0.0007	-0.0007	0	0
21	M21	Z	-0.0007	-0.0007	0	0
22	M22	Z	-0.0008	-0.0008	0	0
23	M23	Z	-0.0007	-0.0007	0	0
24	M24	Z	-0.0008	-0.0008	0	0
25	M31	Z	-0.002	-0.002	0	0
26	M32	Z	-0.002	-0.002	0	0
27	M33	Z	-0.002	-0.002	0	0
28	M35	Z	-0.0003	-0.0003	0	0
29	M38	Z	-0.0003	-0.0003	0	0
30	M41	Z	-0.0003	-0.0003	0	0
31	M44	Z	-0.0003	-0.0003	0	0
32	M47	Z	-0.0003	-0.0003	0	0
33	M50	Z	-0.0003	-0.0003	0	0
34	M53	Z	-0.0003	-0.0003	0	0
35	M56	Z	-0.0003	-0.0003	0	0
36	M59	Z	-0.0003	-0.0003	0	0
37	M62	Z	-0.0003	-0.0003	0	0
38	M65	Z	-0.0003	-0.0003	0	0
39	M68	Z	-0.0003	-0.0003	0	0
40	M73	Z	-0.002	-0.002	0	0
41	M74	Z	-0.001	-0.001	0	0
42	M111	Z	-0.002	-0.002	0	0
43	M112	Z	-0.002	-0.002	0	0
44	M113	Z	-0.002	-0.002	0	0
45	M114	Z	-0.002	-0.002	0	0
46	M115	Z	-0.002	-0.002	0	0
47	M116	Z	-0.002	-0.002	0	0

Member Distributed Loads (BLC 7 : 90 Wind - Service)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-0.001	-0.001	0	0
2	M2	X	-0.001	-0.001	0	0
3	M3	X	-0.001	-0.001	0	0
4	M4	X	-0.0008	-0.0008	0	0
5	M5	X	-0.0007	-0.0007	0	0
6	M6	X	-0.0007	-0.0007	0	0



Member Distributed Loads (BLC 7 : 90 Wind - Service) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,....	End Magnitude[k/ft,F,....	Start Location[ft, %]	End Location[ft, %]
7	M7	X	-0.007	-0.007	0	0
8	M8	X	-0.008	-0.008	0	0
9	M9	X	-0.007	-0.007	0	0
10	M10	X	-0.008	-0.008	0	0
11	M11	X	-0.008	-0.008	0	0
12	M12	X	-0.007	-0.007	0	0
13	M13	X	-0.007	-0.007	0	0
14	M14	X	-0.007	-0.007	0	0
15	M15	X	-0.008	-0.008	0	0
16	M16	X	-0.007	-0.007	0	0
17	M17	X	-0.008	-0.008	0	0
18	M18	X	-0.008	-0.008	0	0
19	M19	X	-0.007	-0.007	0	0
20	M20	X	-0.007	-0.007	0	0
21	M21	X	-0.007	-0.007	0	0
22	M22	X	-0.008	-0.008	0	0
23	M23	X	-0.007	-0.007	0	0
24	M24	X	-0.008	-0.008	0	0
25	M31	X	-0.002	-0.002	0	0
26	M32	X	-0.002	-0.002	0	0
27	M33	X	-0.002	-0.002	0	0
28	M35	X	-0.0003	-0.0003	0	0
29	M38	X	-0.0003	-0.0003	0	0
30	M41	X	-0.0003	-0.0003	0	0
31	M44	X	-0.0003	-0.0003	0	0
32	M47	X	-0.0003	-0.0003	0	0
33	M50	X	-0.0003	-0.0003	0	0
34	M53	X	-0.0003	-0.0003	0	0
35	M56	X	-0.0003	-0.0003	0	0
36	M59	X	-0.0003	-0.0003	0	0
37	M62	X	-0.0003	-0.0003	0	0
38	M65	X	-0.0003	-0.0003	0	0
39	M68	X	-0.0003	-0.0003	0	0
40	M73	X	-0.002	-0.002	0	0
41	M74	X	-0.001	-0.001	0	0
42	M111	X	-0.002	-0.002	0	0
43	M112	X	-0.002	-0.002	0	0
44	M113	X	-0.002	-0.002	0	0
45	M114	X	-0.002	-0.002	0	0
46	M115	X	-0.002	-0.002	0	0
47	M116	X	-0.002	-0.002	0	0

Member Distributed Loads (BLC 8 : Ice)

	Member Label	Direction	Start Magnitude[k/ft,....	End Magnitude[k/ft,F,....	Start Location[ft, %]	End Location[ft, %]
1	M1	Y	-0.008	-0.008	0	0
2	M2	Y	-0.008	-0.008	0	0
3	M3	Y	-0.008	-0.008	0	0
4	M4	Y	-0.005	-0.005	0	0
5	M5	Y	-0.005	-0.005	0	0
6	M6	Y	-0.005	-0.005	0	0
7	M7	Y	-0.005	-0.005	0	0
8	M8	Y	-0.005	-0.005	0	0
9	M9	Y	-0.005	-0.005	0	0
10	M10	Y	-0.005	-0.005	0	0
11	M11	Y	-0.005	-0.005	0	0
12	M12	Y	-0.005	-0.005	0	0



Member Distributed Loads (BLC 8 : Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft, %]	End Location[ft, %]
13	M13	Y	-0.05	-0.05	0	0
14	M14	Y	-0.05	-0.05	0	0
15	M15	Y	-0.05	-0.05	0	0
16	M16	Y	-0.05	-0.05	0	0
17	M17	Y	-0.05	-0.05	0	0
18	M18	Y	-0.05	-0.05	0	0
19	M19	Y	-0.05	-0.05	0	0
20	M20	Y	-0.05	-0.05	0	0
21	M21	Y	-0.05	-0.05	0	0
22	M22	Y	-0.05	-0.05	0	0
23	M23	Y	-0.05	-0.05	0	0
24	M24	Y	-0.05	-0.05	0	0
25	M31	Y	-0.09	-0.09	0	0
26	M32	Y	-0.09	-0.09	0	0
27	M33	Y	-0.09	-0.09	0	0
28	M35	Y	-0.05	-0.05	0	0
29	M38	Y	-0.05	-0.05	0	0
30	M41	Y	-0.05	-0.05	0	0
31	M44	Y	-0.05	-0.05	0	0
32	M47	Y	-0.05	-0.05	0	0
33	M50	Y	-0.05	-0.05	0	0
34	M53	Y	-0.05	-0.05	0	0
35	M56	Y	-0.05	-0.05	0	0
36	M59	Y	-0.05	-0.05	0	0
37	M62	Y	-0.05	-0.05	0	0
38	M65	Y	-0.05	-0.05	0	0
39	M68	Y	-0.05	-0.05	0	0
40	M73	Y	-0.09	-0.09	0	0
41	M74	Y	-0.09	-0.09	0	0
42	M111	Y	-0.09	-0.09	0	0
43	M112	Y	-0.09	-0.09	0	0
44	M113	Y	-0.09	-0.09	0	0
45	M114	Y	-0.09	-0.09	0	0
46	M115	Y	-0.09	-0.09	0	0
47	M116	Y	-0.09	-0.09	0	0

Member Distributed Loads (BLC 31 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft, %]	End Location[ft, %]
1	M32	Y	-0.09	-0.09	.293	3.587
2	M112	Y	-0.02	-.01	.525	2.1
3	M112	Y	-.01	-.017	2.1	3.675
4	M115	Y	-0.05	-.013	.525	1.925
5	M115	Y	-.013	-.012	1.925	3.325
6	M115	Y	-.012	-.003	3.325	4.725
7	M33	Y	-0.09	-0.09	1.359	4.653
8	M111	Y	-0.017	-.01	1.575	3.15
9	M111	Y	-.01	-0.002	3.15	4.725
10	M114	Y	-0.003	-.012	.525	1.925
11	M114	Y	-.012	-.013	1.925	3.325
12	M114	Y	-.013	-0.005	3.325	4.725
13	M31	Y	-0.001	-.01	.989	2.308
14	M31	Y	-.01	-.011	2.308	3.627
15	M31	Y	-.011	-0.002	3.627	4.946
16	M73	Y	-0.002	-.014	0	.833
17	M73	Y	-.014	-.014	.833	1.667
18	M73	Y	-.014	-0.002	1.667	2.5



Company : B+T Group
 Designer : RP
 Job Number : 134498.001.01
 Model Name : 10035073 - Westport South CT2103

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Member Distributed Loads (BLC 31 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
19	M74	Y	-0.009403	-0.11	0	.686
20	M74	Y	-0.11	-0.11	.686	1.373
21	M74	Y	-0.11	-0.009403	1.373	2.059
22	M113	Y	-0.009	-0.005	1.05	2.887
23	M113	Y	-0.005	-0.008464	2.887	4.725
24	M116	Y	-0.004987	-0.003	.525	2.887
25	M116	Y	-0.003	-0.005	2.887	5.25
26	M31	Y	-0.003	-0.004	0	.495
27	M31	Y	-0.004	-0.003	.495	.989
28	M31	Y	-0.003	-0.001506	.989	1.484
29	M32	Y	-0.001704	-0.001	3.462	3.833
30	M32	Y	-0.001	-0.004	3.833	4.204
31	M32	Y	-0.004	-0.005	4.204	4.575
32	M32	Y	-0.005	-0.002	4.575	4.946
33	M115	Y	-0.006003	-0.006003	0	.6
34	M116	Y	-0.002	-0.002	4.672	5.25
35	M32	Y	-0.002	-0.005	0	.371
36	M32	Y	-0.005	-0.004	.371	.742
37	M32	Y	-0.004	-0.001	.742	1.113
38	M32	Y	-0.001	-0.001706	1.113	1.484
39	M33	Y	-0.001502	-0.003	3.462	3.957
40	M33	Y	-0.003	-0.004	3.957	4.451
41	M33	Y	-0.004	-0.003	4.451	4.946
42	M111	Y	-0.002	-0.002	0	.575
43	M112	Y	-0.000598	-0.000598	4.65	5.25
44	M31	Y	-0.001502	-0.003	3.462	3.957
45	M31	Y	-0.003	-0.004	3.957	4.451
46	M31	Y	-0.004	-0.003	4.451	4.946
47	M33	Y	-0.002	-0.005	0	.371
48	M33	Y	-0.005	-0.004	.371	.742
49	M33	Y	-0.004	-0.001	.742	1.113
50	M33	Y	-0.001	-0.001706	1.113	1.484
51	M113	Y	-0.002	-0.002	0	.575
52	M114	Y	-0.000598	-0.000598	4.65	5.25

Member Distributed Loads (BLC 32 : BLC 8 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	M32	Y	-0.005	-0.005	.293	3.587
2	M112	Y	-0.001	-0.005	.525	2.1
3	M112	Y	-0.005	-0.009	2.1	3.675
4	M115	Y	-0.003	-0.007	.525	1.925
5	M115	Y	-0.007	-0.006	1.925	3.325
6	M115	Y	-0.006	-0.002	3.325	4.725
7	M33	Y	-0.005	-0.005	1.359	4.653
8	M111	Y	-0.009	-0.005	1.575	3.15
9	M111	Y	-0.005	-0.001	3.15	4.725
10	M114	Y	-0.001	-0.006	.525	1.925
11	M114	Y	-0.006	-0.006	1.925	3.325
12	M114	Y	-0.006	-0.003	3.325	4.725
13	M31	Y	-0.006667	-0.005	.989	2.308
14	M31	Y	-0.005	-0.006	2.308	3.627
15	M31	Y	-0.006	-0.009249	3.627	4.946
16	M73	Y	-0.000764	-0.007	0	.833
17	M73	Y	-0.007	-0.007	.833	1.667
18	M73	Y	-0.007	-0.000764	1.667	2.5
19	M74	Y	-0.0004702	-0.005	0	.686



Member Distributed Loads (BLC 32 : BLC 8 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft, %]	End Location[ft, %]
20	M74	Y	-0.05	-0.05	.686	1.373
21	M74	Y	-0.05	-0.004702	1.373	2.059
22	M113	Y	-0.05	-0.003	1.05	2.887
23	M113	Y	-0.003	-0.0004232	2.887	4.725
24	M116	Y	-0.0002494	-0.001	.525	2.887
25	M116	Y	-0.001	-0.002	2.887	5.25
26	M31	Y	-0.001	-0.002	0	.495
27	M31	Y	-0.002	-0.001	.495	.989
28	M31	Y	-0.001	-7.531e-5	.989	1.484
29	M32	Y	-8.521e-5	-0.0005472	3.462	3.833
30	M32	Y	-0.0005472	-0.002	3.833	4.204
31	M32	Y	-0.002	-0.002	4.204	4.575
32	M32	Y	-0.002	-0.001	4.575	4.946
33	M115	Y	-0.0003002	-0.0003002	0	.6
34	M116	Y	-0.0008665	-0.0008665	4.672	5.25
35	M32	Y	-0.001	-0.002	0	.371
36	M32	Y	-0.002	-0.002	.371	.742
37	M32	Y	-0.002	-0.0005474	.742	1.113
38	M32	Y	-0.0005474	-8.53e-5	1.113	1.484
39	M33	Y	-7.509e-5	-0.001	3.462	3.957
40	M33	Y	-0.001	-0.002	3.957	4.451
41	M33	Y	-0.002	-0.001	4.451	4.946
42	M111	Y	-0.0008704	-0.0008704	0	.575
43	M112	Y	-0.000299	-0.000299	4.65	5.25
44	M31	Y	-7.509e-5	-0.001	3.462	3.957
45	M31	Y	-0.001	-0.002	3.957	4.451
46	M31	Y	-0.002	-0.001	4.451	4.946
47	M33	Y	-0.001	-0.002	0	.371
48	M33	Y	-0.002	-0.002	.371	.742
49	M33	Y	-0.002	-0.0005474	.742	1.113
50	M33	Y	-0.0005474	-8.53e-5	1.113	1.484
51	M113	Y	-0.0008704	-0.0008704	0	.575
52	M114	Y	-0.000299	-0.000299	4.65	5.25

Joint Loads and Enforced Displacements (BLC 9 : Live Load a)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	N48	L	Y	-.25
2	N96	L	Y	-.25
3	N72	L	Y	-.25

Joint Loads and Enforced Displacements (BLC 10 : Live Load b)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	N54	L	Y	-.25
2	N102	L	Y	-.25
3	N78	L	Y	-.25

Joint Loads and Enforced Displacements (BLC 11 : Live Load c)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	N60	L	Y	-.25
2	N108	L	Y	-.25
3	N84	L	Y	-.25

Joint Loads and Enforced Displacements (BLC 12 : Live Load d)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
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Company : B+T Group
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Joint Loads and Enforced Displacements (BLC 12 : Live Load d) (Continued)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
1	N114	L	Y	-.25
2	N90	L	Y	-.25
3	N66	L	Y	-.25

Member Area Loads (BLC 1 : Dead)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N148	N152	N41	N40	Y	Two Way	-.01
2	N164	N168	N43	N42	Y	Two Way	-.01
3	N132	N136	N39	N38	Y	Two Way	-.01
4	N171A	N41	N38	N170	Y	Two Way	-.01
5	N40	N169A	N173A	N43	Y	Two Way	-.01
6	N42	N174A	N172	N39	Y	Two Way	-.01

Member Area Loads (BLC 8 : Ice)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N148	N152	N41	N40	Y	Two Way	-.005
2	N164	N168	N43	N42	Y	Two Way	-.005
3	N132	N136	N39	N38	Y	Two Way	-.005
4	N171A	N41	N38	N170	Y	Two Way	-.005
5	N40	N169A	N173A	N43	Y	Two Way	-.005
6	N42	N174A	N172	N39	Y	Two Way	-.005

Envelope Joint Reactions

Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N166	max	2.018	3	2.59	18	3.466	3	4.337	3	.261	3	2.591	9
2		min	-2.03	9	-.181	12	-3.462	9	-4.5	9	-.251	9	-2.508	3
3	N167	max	3.857	5	2.963	14	1.112	2	.042	2	.167	13	4.329	11
4		min	-3.853	11	-.331	8	-1.133	8	-.025	8	-.159	7	-4.304	5
5	N168A	max	2.071	7	2.706	22	3.776	13	4.416	13	.282	7	2.555	13
6		min	-2.063	13	-.143	4	-3.764	7	-4.528	7	-.272	13	-2.606	7
7	Totals:	max	6.645	5	7.261	25	8.02	2						
8		min	-6.645	11	3.674	7	-8.02	8						

Envelope AISC 15th(360-16): LRFD Steel Code Checks

Member	Shape	Code ...	Loc[ft]	LC	She...	Loc[ft]	phi*P...	phi*P...	phi*M...	phi*M.....	Eqn	
1	M1	L3X3X4	.518	6.563	2	.147	6.667	y 2	7.731	46.656	1.688	3.009	H2-1
2	M2	L3X3X4	.406	6.562	6	.183	0	z 8	7.731	46.656	1.688	2.951	H2-1
3	M3	L3X3X4	.452	6.562	9	.174	9.583	y 8	7.731	46.656	1.688	3.11	H2-1
4	M4	L13/4x13/4x1/4	.090	0	4	.011	0	y 5	11.865	26.325	.513	1.177	H2-1
5	M5	L13/4x13/4x1/4	.153	3	10	.025	3	z 2	14.658	26.325	.513	1.177	H2-1
6	M6	L13/4x13/4x1/4	.213	3	13	.035	1.5	y 8	14.658	26.325	.513	1.177	H2-1
7	M7	L13/4x13/4x1/4	.157	0	2	.019	3	z 3	14.658	26.325	.513	1.177	H2-1
8	M8	L13/4x13/4x1/4	.526	2.033	9	.012	4.243	y 4	8.252	26.325	.513	1.09	H2-1
9	M9	L13/4x13/4x1/4	.061	3	12	.018	3	y 13	14.658	26.325	.513	1.177	H2-1
10	M10	L13/4x13/4x1/4	.570	2.121	7	.015	4.243	z 12	8.252	26.325	.513	1.074	H2-1
11	M11	L13/4x13/4x1/4	.106	0	8	.012	0	y 9	11.865	26.325	.513	1.177	H2-1
12	M12	L13/4x13/4x1/4	.184	3	2	.028	1.5	z 12	14.658	26.325	.513	1.177	H2-1
13	M13	L13/4x13/4x1/4	.184	3	10	.028	1.5	z 7	14.658	26.325	.513	1.177	H2-1
14	M14	L13/4x13/4x1/4	.125	3	8	.019	3	z 8	14.658	26.325	.513	1.177	H2-1
15	M15	L13/4x13/4x1/4	.552	1.9	13	.012	4.243	y 8	8.252	26.325	.513	1.072	H2-1
16	M16	L13/4x13/4x1/4	.053	3	10	.020	3	z 5	14.658	26.325	.513	1.177	H2-1
17	M17	L13/4x13/4x1/4	.527	2.121	11	.013	4.243	z 3	8.252	26.325	.513	1.087	H2-1



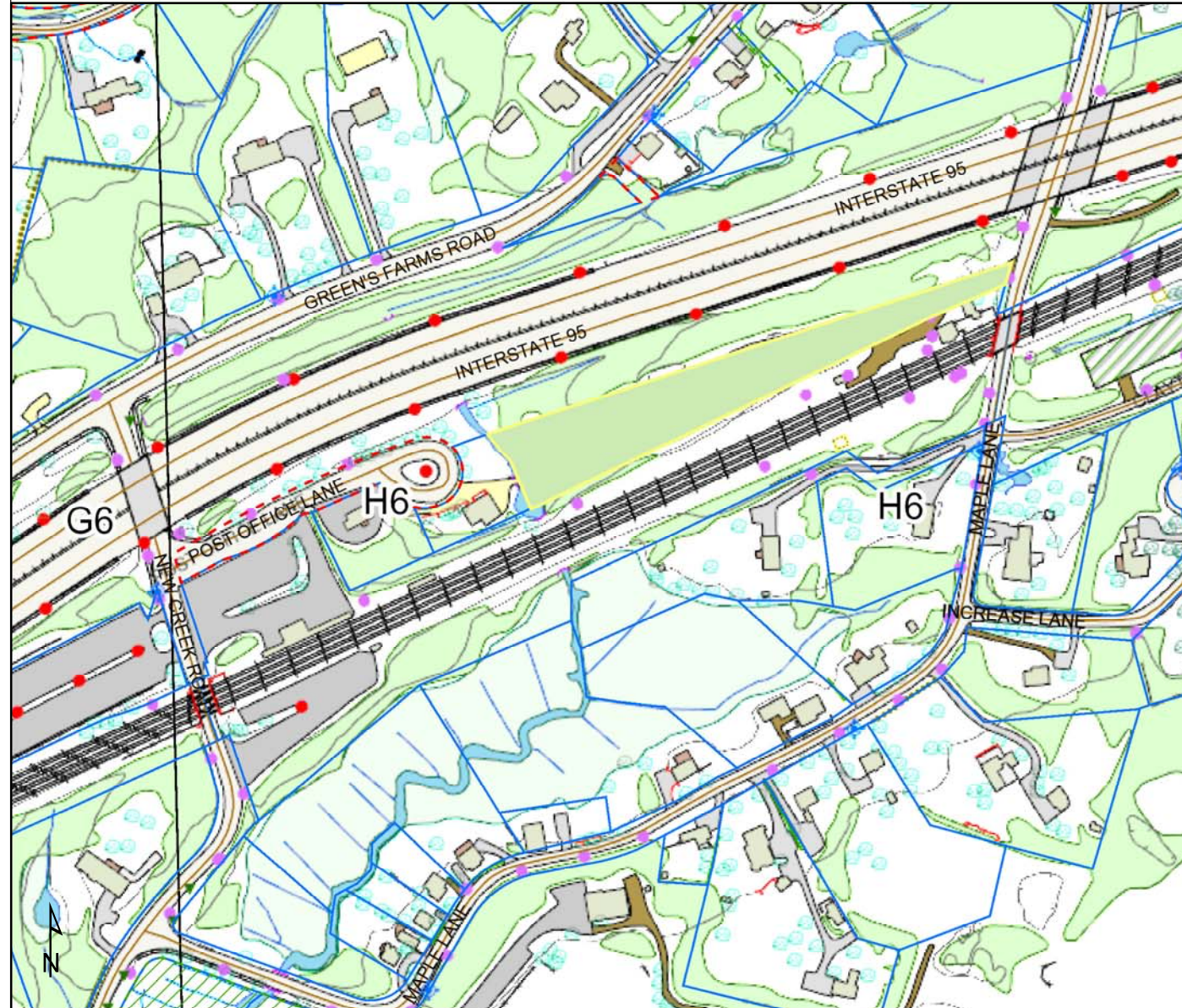
Company : B+T Group
 Designer : RP
 Job Number : 134498.001.01
 Model Name : 10035073 - Westport South CT2103

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Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)

Member	Shape	Code ...	Loc[ft]	LC	She...	Loc[ft]	...	phi*P...	phi*P...	phi*M...	phi*M...	Eqn
18	M18	L13/4x13/4x1/4	.114	0	13	.012	0	y 13	11.865	26.325	.513	1.177 ... H2-1
19	M19	L13/4x13/4x1/4	.138	3	6	.025	1.5	z 4	14.658	26.325	.513	1.177 ... H2-1
20	M20	L13/4x13/4x1/4	.217	3	2	.029	1.5	z 4	14.658	26.325	.513	1.177 ... H2-1
21	M21	L13/4x13/4x1/4	.089	0	10	.020	3	z 11	14.658	26.325	.513	1.177 ... H2-1
22	M22	L13/4x13/4x1/4	.473	1.945	5	.011	0	y 13	8.252	26.325	.513	1.068 ... H2-1
23	M23	L13/4x13/4x1/4	.060	3	8	.018	3	y 9	14.658	26.325	.513	1.177 ... H2-1
24	M24	L13/4x13/4x1/4	.579	2.121	3	.015	4.243	z 8	8.252	26.325	.513	1.084 ... H2-1
25	M31	C5X6.7	.767	2.473	3	.202	2.473	y 3	29.338	63.828	1.604	9.585 ... H1-1b
26	M32	C5X6.7	.747	2.473	7	.133	2.473	y 8	29.338	63.828	1.604	9.585 ... H1-1b
27	M33	C5X6.7	.758	2.473	8	.135	2.473	y 8	29.338	63.828	1.604	9.585 ... H1-1b
28	M35	PIPE 2.0	.256	1.969	8	.105	4.958	3	17.855	32.13	1.872	1.872 ... H1-1b
29	M38	PIPE 2.0	.097	4.958	10	.109	4.958	8	17.855	32.13	1.872	1.872 ... H1-1b
30	M41	PIPE 2.0	.163	1.969	8	.110	2.042	8	17.855	32.13	1.872	1.872 ... H1-1b
31	M44	PIPE 2.0	.108	1.969	8	.104	4.958	13	17.855	32.13	1.872	1.872 ... H1-1b
32	M47	PIPE 2.0	.256	1.969	2	.105	4.958	7	17.855	32.13	1.872	1.872 ... H1-1b
33	M50	PIPE 2.0	.124	4.958	2	.098	4.958	12	17.855	32.13	1.872	1.872 ... H1-1b
34	M53	PIPE 2.0	.162	1.969	2	.097	4.958	7	17.855	32.13	1.872	1.872 ... H1-1b
35	M56	PIPE 2.0	.108	1.969	8	.110	4.958	5	17.855	32.13	1.872	1.872 ... H1-1b
36	M59	PIPE 2.0	.256	1.969	2	.113	4.958	11	17.855	32.13	1.872	1.872 ... H1-1b
37	M62	PIPE 2.0	.090	4.958	7	.079	4.958	4	17.855	32.13	1.872	1.872 ... H1-1b
38	M65	PIPE 2.0	.162	1.969	2	.099	2.042	4	17.855	32.13	1.872	1.872 ... H1-1b
39	M68	PIPE 2.0	.108	1.969	2	.098	4.958	9	17.855	32.13	1.872	1.872 ... H1-1b
40	M73	C5X6.7	.153	2.5	15	.041	1.12	y 14	52.332	63.828	1.604	9.585 ... H1-1b
41	M74	C5X6.7	.151	0	5	.027	.901	y 16	55.782	63.828	1.604	9.585 ... H1-1b
42	M111	C5X6.7	.535	.273	6	.192	.328	y 7	26.586	63.828	1.604	9.585 ... H1-1b
43	M112	C5X6.7	.519	4.977	10	.205	3.719	y 8	26.586	63.828	1.604	9.585 ... H1-1b
44	M113	C5X6.7	.520	.273	3	.198	0	z 9	26.586	63.828	1.604	9.585 ... H1-1b
45	M114	C5X6.7	.580	4.977	2	.198	5.25	z 9	26.586	63.828	1.604	9.585 ... H1-1b
46	M115	C5X6.7	.571	.273	2	.213	0	z 7	26.586	63.828	1.604	9.585 ... H1-1b
47	M116	C5X6.7	.566	4.977	13	.213	5.25	z 7	26.586	63.828	1.604	9.585 ... H1-1b

POST OFFICE LANE



Westport CT Web GIS Map Legend

--- DMV_line	--- Culvert	--- Golf Path
--- Deleted_Wetland	--- Dam	--- Paved Parking
--- Assessed_Wetland	--- Ditch	--- Unpaved Parking
--- old_line	--- Rip Rap	--- Paved Driveway
--- Title_Wetland	--- Elevation Wall	--- Unpaved Driveway
--- Waterbody_Watercourse	--- Fence	--- Public Sidewalk
--- vol_fert_line	--- Quonset	--- Tree Line
--- Wetland	--- Hedge	--- Wet Area
--- 100 Year Flood Zone	--- Retaining Wall	--- Stone, Lake, Pond, or River
--- 500 Year Flood Zone	--- Stone Wall	--- Pool
--- Floodway in Zone AC	--- Trails	--- Golf Green
--- Basins	--- Abandoned Railroad Tracks	--- Golf Bunker
--- Spot Elevation	--- Railroad Tracks	--- Tennis Court
--- Water Spot Elevation	--- Paved Road Centerline	--- Golf Tee
--- building_polyline	--- Unpaved Road Centerline	--- Wharf, Dock, or Pier
--- backhoe_polyline	--- Stream	--- Park
--- original_parcels_polyline	--- Coastal Line	--- Athletic Field
--- Index	--- Basement	--- Golf Course
--- Index Depression	--- Utility Right of Way	--- Index Polygon
--- Index Obscured	--- Private Right of Way	--- HYDRIC SOILS
--- Index Depression Obscured	--- Proposed Right of Way	--- NON-HYDRIC SOILS
--- Intermediate	--- Public Right of Way	--- WATER
--- Intermediate Depression	--- Parcel	--- A
--- Intermediate Obscured	--- Fuel Tank	--- AA
--- Intermediate Depression (Obs)	--- Water Tank	--- AAA
--- Tree	--- Quarry or Pit	--- B
--- Pipe	--- Building	--- BCD
--- Outfall	--- Building Construction	--- BPD
--- Catchbasin	--- Cement Pad	--- CPD
--- Manhole	--- Deck	--- ODD4
--- Electrical Box	--- Foundation	--- ORD
--- Hydrant	--- Greenhouse	--- ORD5
--- Light Pole	--- Mobile Home	--- HDD
--- Utility Pole	--- Ruin	--- HSD
--- Sign	--- Silo	--- MHP
--- Unknown	--- Smokestack	--- OSRD
--- Billboard	--- Substation	--- PRD
--- Pipeline Above Ground	--- Anage	--- R&D
--- Tower	--- Paved Road	--- RCRD
--- boundary_polyline	--- Humay	--- RPOD
--- Unknown Lines	--- Unpaved Road	

1 inch = 283 feet

Westport and its mapping contractors assume no legal responsibility for the information contained herein.

MAPLE LN

Location MAPLE LN

Mblu H06/ / 017/000 /

Acct# 5452217-C

Owner SHERWOOD JAY

Assessment \$919,330

Appraisal \$1,313,300

PID 7785

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2015	\$1,253,900	\$59,400	\$1,313,300

Assessment			
Valuation Year	Improvements	Land	Total
2015	\$877,730	\$41,600	\$919,330

Owner of Record

Owner SHERWOOD JAY
Co-Owner
Address P O BOX 48
 WESTPORT, CT 06881

Sale Price \$0
Certificate 1
Book & Page 469/ 137
Sale Date 12/08/1977
Instrument 29

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
SHERWOOD JAY	\$0	1	469/ 137	29	12/08/1977

Building Information

Building 1 : Section 1

Year Built:
Living Area: 0
Replacement Cost: \$0
Building Percent Good:
Replacement Cost Less Depreciation: \$0

Building Attributes
No Data for Building Attributes

Building Photo



(<http://images.vgsi.com/photos2/WestportCTPhotos/\00\01\56\27.jpg>)

Building Layout

Building Layout
 (<http://images.vgsi.com/photos2/WestportCTPhotos//Sketches/7>)

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code 100
Description Res Vacant Lnd
Zone AAA
Neighborhood 140
Alt Land Appr Category No

Land Line Valuation

Size (Acres) 2.07
Frontage 0
Depth 0
Assessed Value \$41,600
Appraised Value \$59,400

Outbuildings

--


Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
CELL	Cell on TWR	TW		5 Sites	\$1,253,900	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2018	\$1,253,900	\$59,400	\$1,313,300
2017	\$1,253,900	\$59,400	\$1,313,300
2016	\$1,253,900	\$59,400	\$1,313,300

Assessment			
Valuation Year	Improvements	Land	Total
2018	\$877,730	\$41,600	\$919,330
2017	\$877,730	\$41,600	\$919,330
2016	\$877,730	\$41,600	\$919,330

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usps.com
US POSTAGE \$7.35
 Flat Rate Env
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0004

Carrier -- Leave if No Response

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SHIP MR. JIM MARPE
 TO: TOWN OF WESTPORT
 110 MYRTLE AVE
 CC MS MARY YOUNG - DIR P & Z
 WESTPORT CT 06880-3514

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Trans. #: 462653138	Priority Mail® Postage: \$7.35
Print Date: 04/26/2019	Total: \$7.35
Ship Date: 04/27/2019	
Expected Delivery Date: 04/29/2019	


From: MARK J ROBERTS
 QC DEVELOPMENT
 PO BOX 916
 STORRS CT 06268-0916

To: MR. JIM MARPE
 TOWN OF WESTPORT
 110 MYRTLE AVE
 CC MS MARY YOUNG - DIR P & Z
 WESTPORT CT 06880-3514

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MARK J ROBERTS
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 STORRS CT 06268-0916

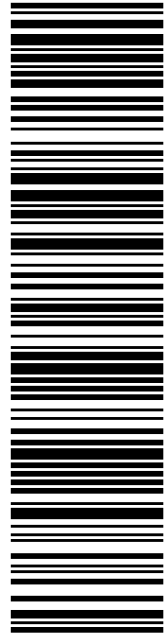
0004

Carrier -- Leave if No Response

B001

SHIP TO:
 MR. JAY SHERWOOD
 PO BOX 48
 WESTPORT CT 06881-0048

USPS TRACKING #



9405 5036 9930 0490 3083 64

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5. Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0490 3083 64

Trans. #: 462653138	Priority Mail® Postage: \$7.35
Print Date: 04/26/2019	Total: \$7.35
Ship Date: 04/27/2019	
Expected Delivery Date: 04/29/2019	

From: MARK J ROBERTS
 QC DEVELOPMENT
 PO BOX 916
 STORRS CT 06268-0916

To: MR. JAY SHERWOOD
 PO BOX 48
 WESTPORT CT 06881-0048

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