



QC Development

PO Box 916

Storrs, CT 06268

860-670-9068

Mark.Roberts@QCDevelopment.net

March 22, 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) – CT2125
6 Fairfield Drive, Newtown, CT 06470
N 41.42530556
W 73.37411111**

Dear Ms. Bachman:

AT&T currently maintains twelve (12) antennas at the 152-foot level of the existing 152-foot Monopole at 6 Fairfield Drive (aka 25 Meridian Ridge Drive), Newtown, CT. The tower is owned by American Tower and the property is owned by HW 1945 LLC. AT&T now intends to remove six (6) Powerwave antennas and replace them with six (6) Kathrein 800-10965 antennas. AT&T will also swap (3) Ericsson RRUS-11 for (3) Ericsson 4449-B5/B12s, add (3) Ericsson 4415-B30 and add (3) Ericsson 4478-B14 Remote Radio Units (RRU). The new antennas and RRUs will also be installed at the 152-foot level of the tower.

This facility was approved by the Siting Council on May 13, 1987. This approval included no condition(s) that could feasibly be violated by this modification, including total facility height or mounting restrictions. This modification therefore complies with the aforementioned approval.

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

well as the property and tower owner.

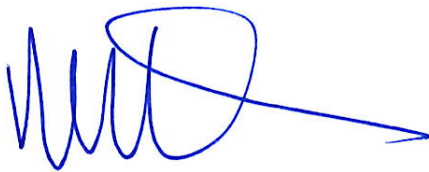
The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

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: Daniel Rosenthal - Elected Official
George Benson – Director of Planning
HW 1945 LLC – 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*							4.97%
AT&T GSM	2	414	152	0.0140	850	0.5667	0.25%
AT&T UMTS	2	414	152	0.0140	850	0.5667	0.25%
AT&T UMTS	2	656	152	0.0221	1900	1.0000	0.22%
AT&T LTE	2	1117	152	0.0337	700	0.4667	0.81%
AT&T LTE	2	1942	152	0.0655	1900	1.0000	0.66%
Site Total							7.15%

*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*							4.97%
AT&T UMTS	1	249	152	0.0042	850	0.5667	0.07%
AT&T LTE	2	2951	152	0.0996	700	0.4667	2.13%
AT&T LTE	1	1000	152	0.0169	850	0.5667	0.30%
AT&T 5G	1	1000	152	0.0169	850	0.5667	0.30%
AT&T LTE	2	3664	152	0.1236	1900	1.0000	1.24%
AT&T LTE	1	1285	152	0.0217	2300	1.0000	0.22%
Site Total							9.23%

*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



at&t

Mobility



500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 06067



12 INDUSTRIAL WAY
SALEM, NH 03079

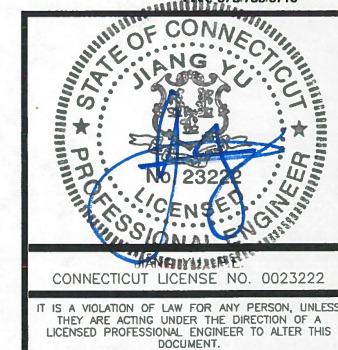
**CT2125
NEWTOWN**

CONSTRUCTION DRAWINGS

0	03/18/19	ISSUED AS FINAL
C	02/28/19	REVISED PER COMMENTS
B	01/29/19	REVISED PER COMMENTS
A	01/09/19	ISSUED FOR REVIEW



Dewberry Engineers Inc.
600 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710



CONNECTICUT LICENSE NO. 0023222

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DRAWN BY: BJR

REVIEWED BY: BSH

CHECKED BY: GHN

PROJECT NUMBER: 50055106

JOB NUMBER: 50093831

SITE ADDRESS:

6 FAIRFIELD DRIVE
NEWTOWN, CT 06470

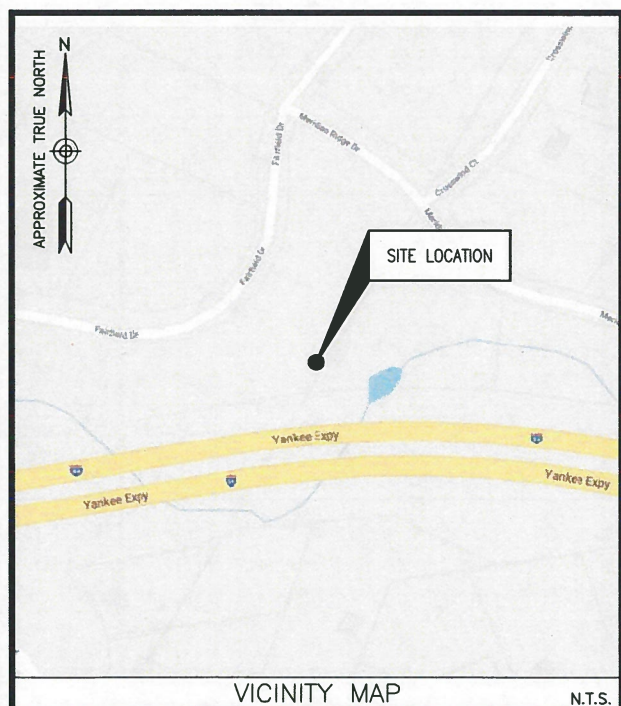
SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

SITE NAME: NEWTOWN
SITE NUMBER: CT2125
6 FAIRFIELD DRIVE
NEWTOWN, CT 06470
ATC SITE NUMBER: 302518
FA CODE: 10034989
PACE ID: MRCTB035119, MRCTB035249, MRCTB035134
PROJECT: LTE 3C, 4C, 5C



SITE COORDINATES:
LATITUDE: 41°-25'-31.872" N
LONGITUDE: 73°-22'-26.598" W
(PER EXISTING DRAWINGS PROVIDED)

ELEVATION DATA:
GRADE ELEVATION AT TOWER = 433'± A.M.S.L.
(PER EXISTING DRAWINGS PROVIDED)

SITE INFORMATION

- SWAP (3) EXISTING GSM ANTENNAS & (3) EXISTING LTE ANTENNAS FOR (6) 6' 800-10965 OCTO ANTENNAS
 - SWAP (3) RRUS-11S FOR (3) 700/850 B5/B12-4449 AT TOWER TOP
 - ADD (3) B14-4478 AT TOWER TOP
 - ADD (3) 4415 B30 AT TOWER TOP
 - ADD (1) DC6-48-60-18-8C SQUID WITH (1) 2" CONDUIT FOR 2 DC/1 FIBER
 - ADD (1) DC6-48-60-0-8C-EV DC ONLY SQUID W/ (1) 2" CONDUIT FOR 2 DC
 - SWAP DUS FOR RBS 6630, ADD XMU, ADD 5G RBS 6630
- PROJECT DESCRIPTION**

SITE NAME:
NEWTOWN

SITE NUMBER:
CT2125

SITE ADDRESS:
6 FAIRFIELD DRIVE
NEWTOWN, CT 06470

TOWER OWNER:
AMERICAN TOWER CORPORATION
116 HUNTINGTON AVE., 11TH FLOOR
BOSTON, MA 02116

APPLICANT/LESSEE:
AT&T MOBILITY
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

PROJECT INFORMATION

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

A.D.A. COMPLIANCE:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

SHEET NUMBER	DESCRIPTION
T-1	TITLE SHEET
G-1	GENERAL NOTES
C-1	COMPOUND PLAN
C-2	EXISTING & PROPOSED SHELTER LAYOUTS
C-3	EXISTING & PROPOSED ANTENNA LAYOUTS
C-4	EXISTING & PROPOSED ELEVATIONS
C-5	CONSTRUCTION DETAILS I
C-6	CONSTRUCTION DETAILS II
C-7	CONSTRUCTION DETAILS III
C-8	PLUMBING DIAGRAM
E-1	GROUNDING NOTES & DETAILS

SHEET INDEX



500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 06067



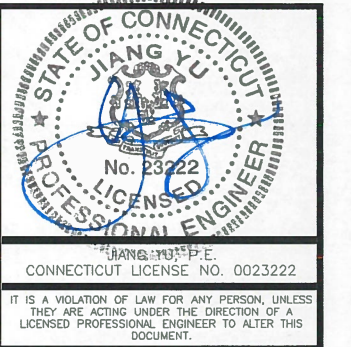
12 INDUSTRIAL WAY
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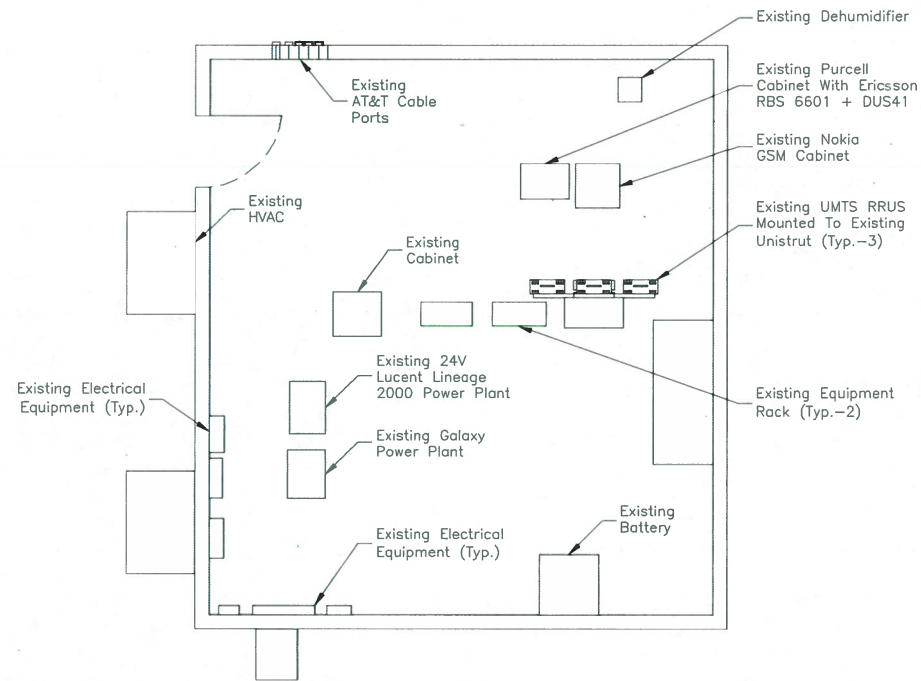
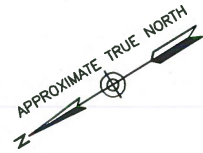
DRAWN BY:	BJR
REVIEWED BY:	BSH
CHECKED BY:	GHN
PROJECT NUMBER:	50055106
JOB NUMBER:	50093831
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NEWTOWN, CT 06470

SHEET TITLE

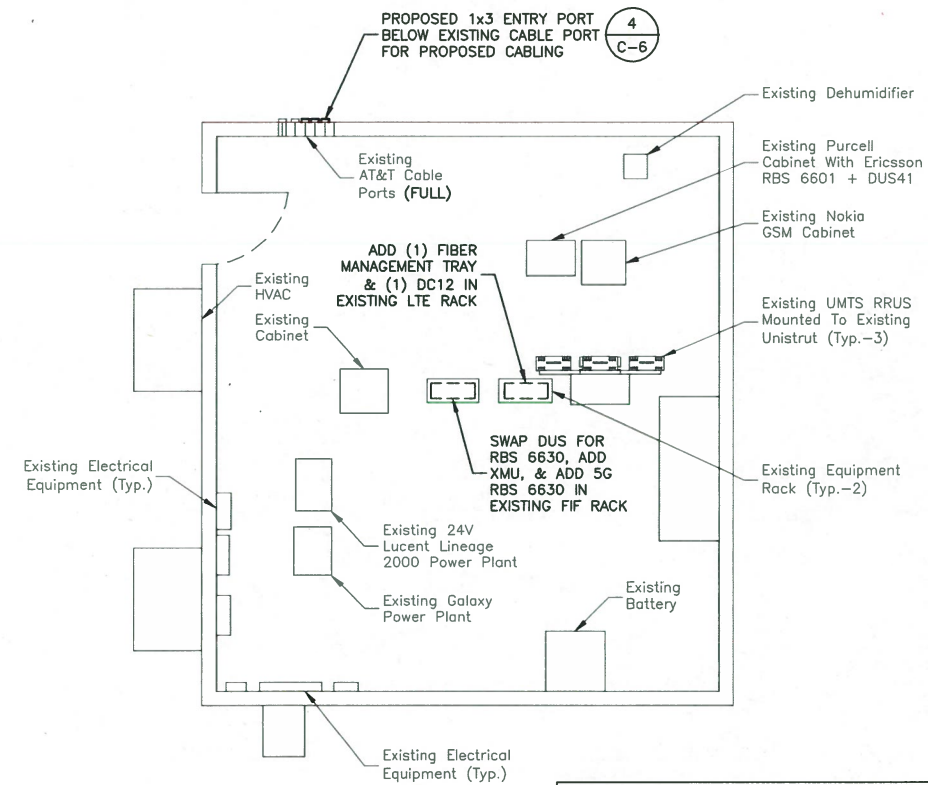
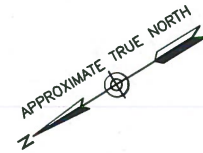
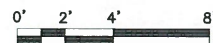
EXISTING & PROPOSED
SHELTER LAYOUTS

SHEET NUMBER



EXISTING SHELTER LAYOUT

SCALE: 1/8"=1' FOR 11"x17"
1/4"=1' FOR 22"x34"

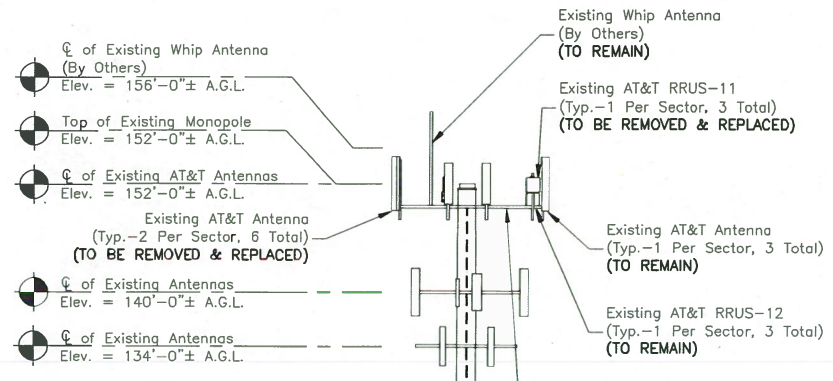


PROPOSED SHELTER LAYOUT

SCALE: 1/8"=1' FOR 11"x17"
1/4"=1' FOR 22"x34"

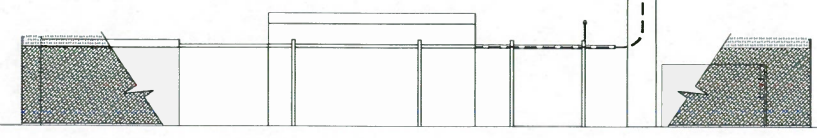


NOTE:
1. INSTALL (24) TELCO FLEX BETWEEN EXISTING & PROPOSED DC12 AND EXISTING POWER PLANT.



Existing AT&T (12) 1-5/8" Coax Cables Routed Inside Monopole to Antennas (TO REMAIN)

Existing 152'-0" ± Tall Monopole



EXISTING ELEVATION

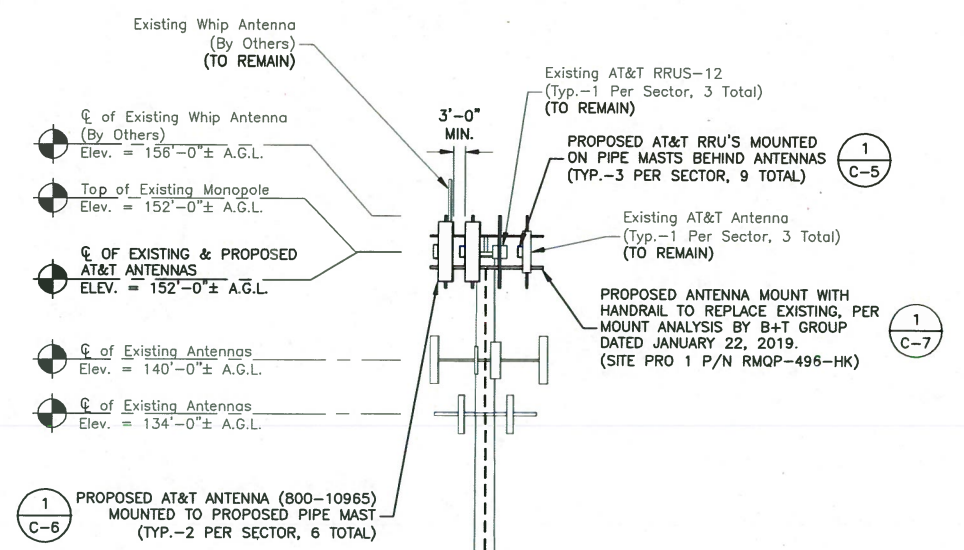
SCALE: 3/64"=1' FOR 11"x17"
3/32"=1' FOR 22"x34"



1

NOTE:

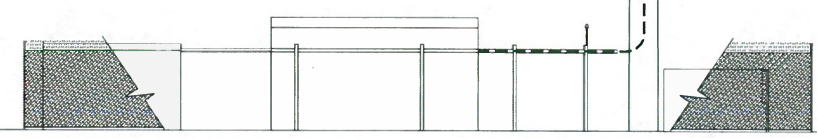
- ALL PROPOSED EQUIPMENT, INCLUDING ANTENNAS, COAX, SURGE ARRESTORS, TMA'S, RRUS, ETC., SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS BY AMERICAN TOWER CORPORATION DATED FEBRUARY 6, 2019 AND MOUNT ANALYSIS BY B+T GROUP DATED JANUARY 22, 2019.



Existing AT&T (12) 1-5/8" Coax Cables Routed Inside Monopole to Antennas (TO REMAIN)

Existing 152'-0" ± Tall Monopole

PROPOSED AT&T (1) 2" CONDUIT FOR 2 DC & 1 FIBER CABLES & (1) 2" CONDUIT FOR 2 DC CABLES, ROUTED WITH EXISTING CABLES INSIDE MONOPOLE TO ANTENNAS



PROPOSED ELEVATION

SCALE: 3/64"=1' FOR 11"x17"
3/32"=1' FOR 22"x34"



2



500 ENTERPRISE DRIVE SUITE 3A
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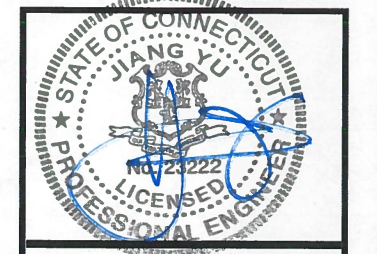
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**CT2125
NEWTOWN**

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SITE ADDRESS:	

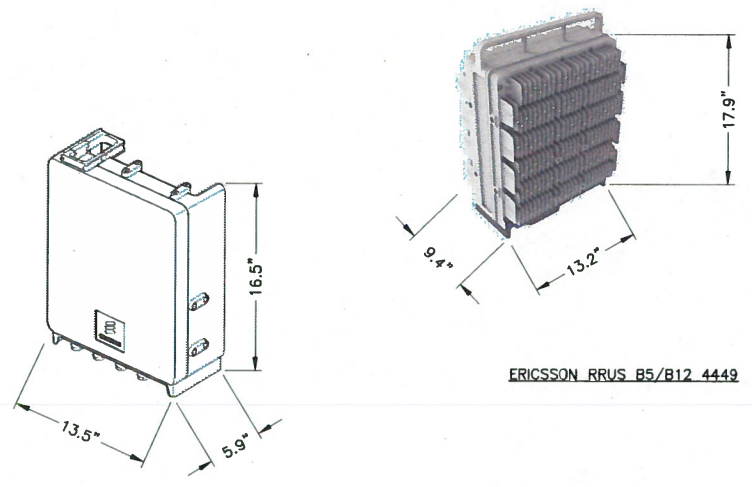
6 FAIRFIELD DRIVE
NEWTOWN, CT 06470

SHEET TITLE

EXISTING & PROPOSED ELEVATIONS

SHEET NUMBER

C-4

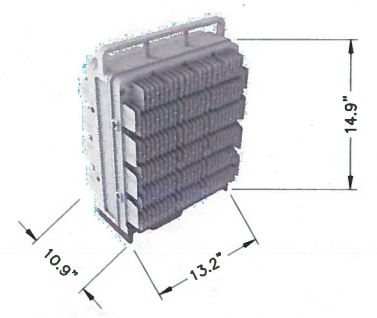


SPECIFICATIONS:
 HEIGHT: 17.9"
 WIDTH: 13.2"
 DEPTH: 9.4"
 WEIGHT: 70.4 LBS

ERICSSON_RRUS_B5/B12_4449

ERICSSON_RRUS_B30_4415

SPECIFICATIONS:
 HEIGHT: 16.5"
 WIDTH: 13.5"
 DEPTH: 5.9"
 WEIGHT: 44.1 LBS



SPECIFICATIONS:
 HEIGHT: 14.9"
 WIDTH: 13.2"
 DEPTH: 10.9"
 WEIGHT: 72.0 LBS

ERICSSON_RRUS_B2/B66a_8843

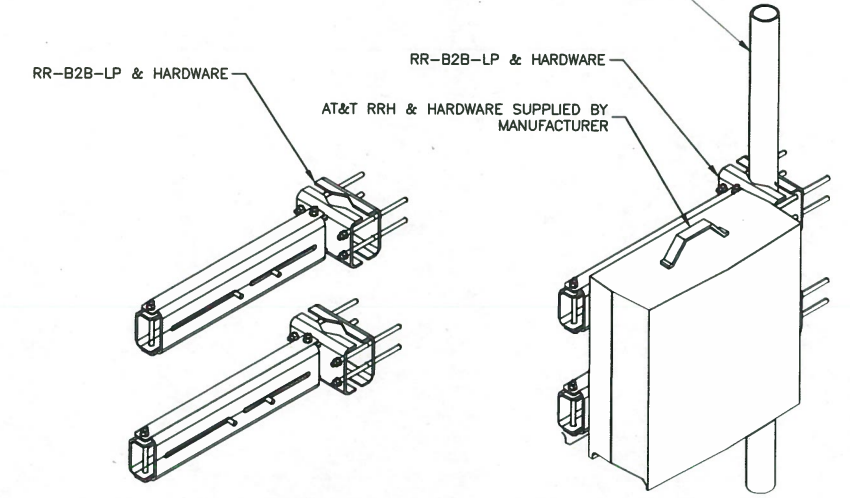
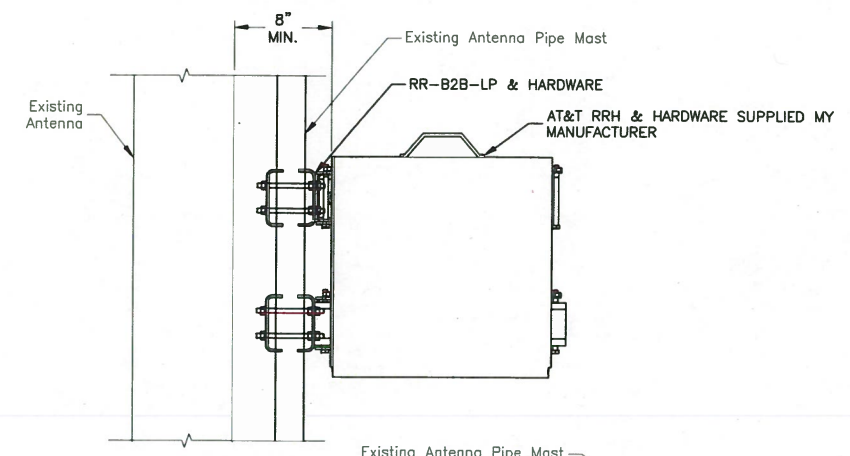
RRU NOTES:

1. MOUNT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
2. GROUND EQUIPMENT AND MOUNTS PER MANUFACTURER'S RECOMMENDATIONS AND AT&T STANDARDS.
3. CONFIRM REQUIRED EQUIPMENT WITH THE LATEST RFDS.

REMOTE RADIO UNIT DETAILS

SCALE: N.T.S.

1



NOTES:

1. 8" MIN. BETWEEN BACK OF ANTENNA & RRH UNIT.
2. CONTRACTOR TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS TO ENSURE THAT ALL RRH UNITS RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING. DO NOT OPEN RRH UNITS IN THE RAIN.

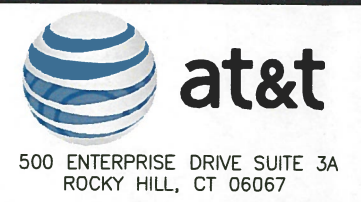
RRH DUAL BRACKET MOUNT DETAIL

SCALE: N.T.S.

2

ANTENNA SCHEDULE

SECTOR	EXISTING/PROPOSED	BAND	ANTENNA	ANTENNA C HEIGHT	AZIMUTH	TMA/DIPLEXER	RRU	QTY.	FEEDER	RAYCAP
A1	EXISTING	UMTS 850	POWERWAVE 7770	152'	143'	(2) POWERWAVE/LGP 21901 (2) 21401 (DB - 850 BYPASS)	-	4	1-5/8" COAX	(E) (1) RAYCAP DC6-48-60-18-8C (P) (1) RAYCAP DC6-48-60-18-8C (P) (1) RAYCAP DC6-48-60-0-8C-EV
A2	-	-	-	-	-	-	-	-	-	
A3	PROPOSED	LTE 700/1900	KATHRIEN 800-10965	152'	90'	-	(P) ERICSSON_RRUS_B14_4478 (E) ERICSSON_RRUS-12	-	FIBER	
A4	PROPOSED	LTE 700/850/WCS 5G 850	KATHRIEN 800-10965	152'	90'	-	(P) ERICSSON_RRUS_B5/B12_4449 (P) ERICSSON_RRUS_4415_B30	-	FIBER	
B1	EXISTING	UMTS 850	POWERWAVE 7770	152'	263'	(2) POWERWAVE/LGP 21901 (2) 21401 (DB - 850 BYPASS)	-	4	1-5/8" COAX	
B2	-	-	-	-	-	-	-	-	-	
B3	PROPOSED	LTE 700/1900	KATHRIEN 800-10965	152'	210'	-	(P) ERICSSON_RRUS_B14_4478 (E) ERICSSON_RRUS-12	-	FIBER	
B4	PROPOSED	LTE 700/850/WCS 5G 850	KATHRIEN 800-10965	152'	210'	-	(P) ERICSSON_RRUS_B5/B12_4449 (P) ERICSSON_RRUS_4415_B30	-	FIBER	
C1	EXISTING	UMTS 850	POWERWAVE 7770	152'	23'	(2) POWERWAVE/LGP 21901 (2) 21401 (DB - 850 BYPASS)	-	4	1-5/8" COAX	
C2	-	-	-	-	-	-	-	-	-	
C3	PROPOSED	LTE 700/1900	KATHRIEN 800-10965	152'	330'	-	(P) ERICSSON_RRUS_B14_4478 (E) ERICSSON_RRUS-12	-	FIBER	
C4	PROPOSED	LTE 700/850/WCS 5G 850	KATHRIEN 800-10965	152'	330'	-	(P) ERICSSON_RRUS_B5/B12_4449 (P) ERICSSON_RRUS_4415_B30	-	FIBER	

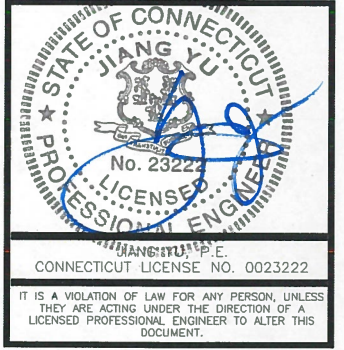


**CT2125
NEWTOWN**

CONSTRUCTION DRAWINGS

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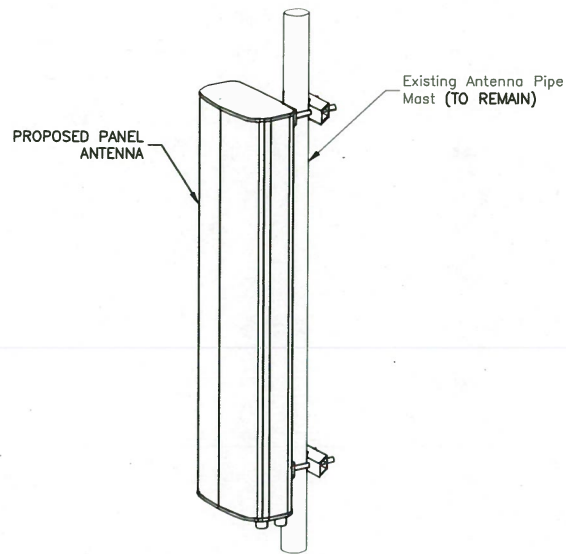


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6 FAIRFIELD DRIVE
 NEWTOWN, CT 06470

SHEET TITLE
**CONSTRUCTION
 DETAILS I**
 SHEET NUMBER

C-5



NOTES:

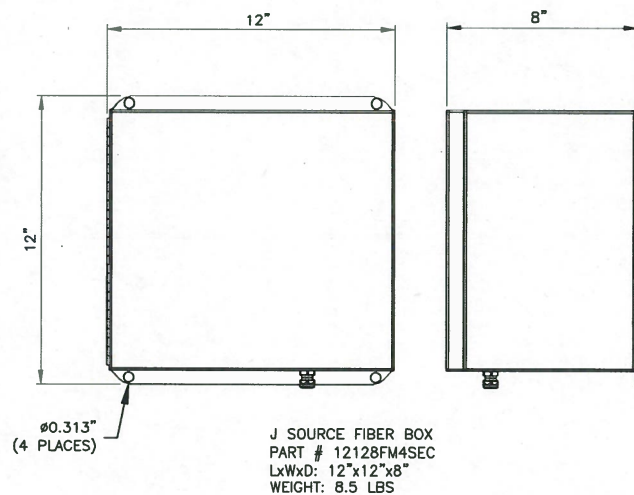
1. MOUNT ANTENNA PER MANUFACTURER'S RECOMMENDATIONS.
2. WEIGHT INCLUDES MOUNTING BRACKETS.

ANTENNA SPECIFICATIONS	
MANUFACTURER	KATHREIN
MODEL NUMBER	800-10965
DIMENSIONS (HxWxD)	78.7" x 20.0" x 6.9"
WEIGHT	108.6 LBS

ANTENNA DETAIL

SCALE: N.T.S.

1



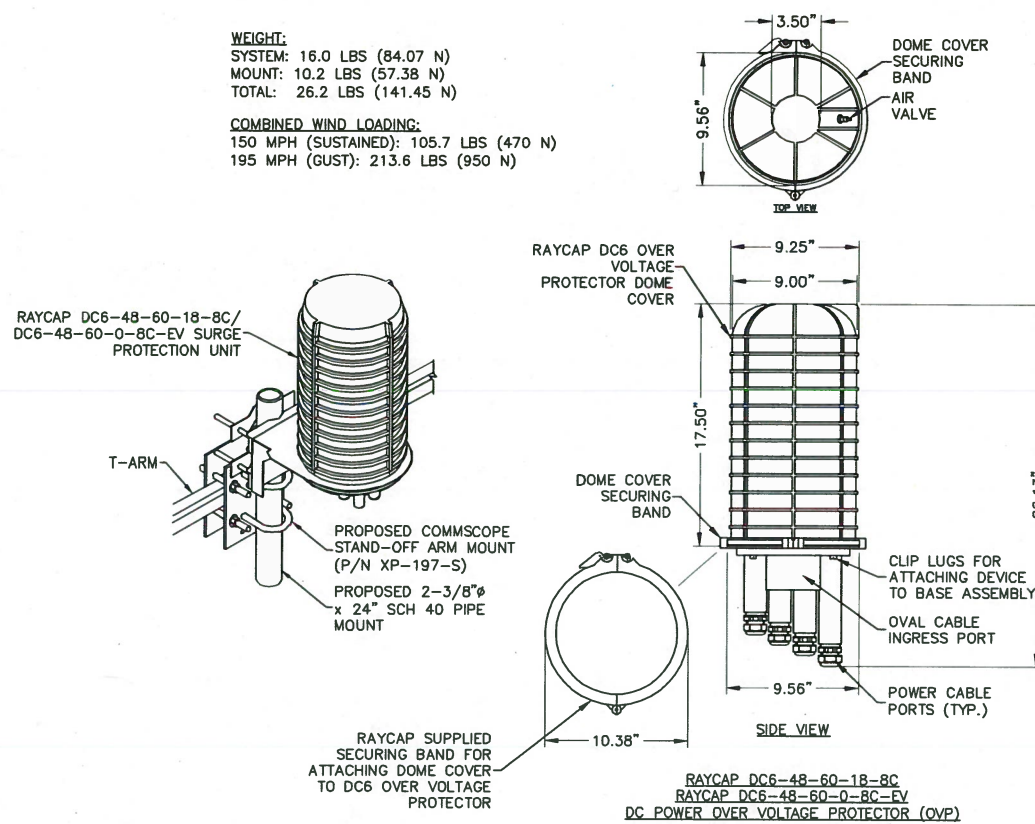
FIBER MANAGEMENT BOX DETAIL

SCALE: N.T.S.

3

WEIGHT:
 SYSTEM: 16.0 LBS (84.07 N)
 MOUNT: 10.2 LBS (57.38 N)
 TOTAL: 26.2 LBS (141.45 N)

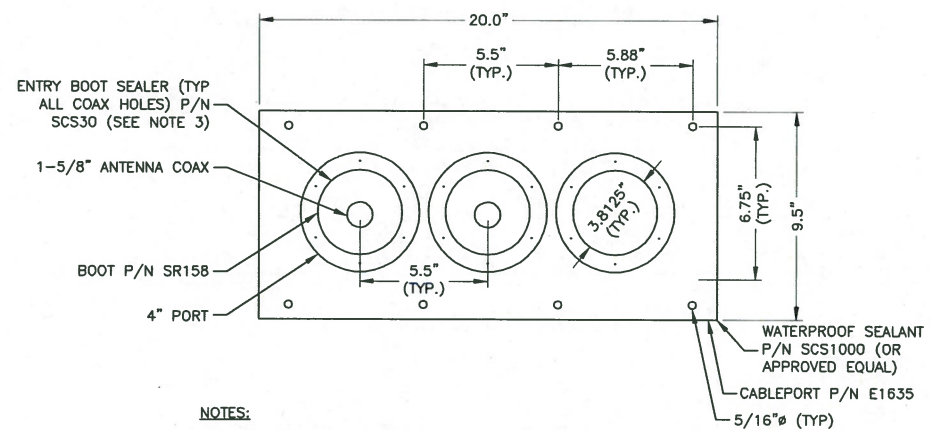
COMBINED WIND LOADING:
 150 MPH (SUSTAINED): 105.7 LBS (470 N)
 195 MPH (GUST): 213.6 LBS (950 N)



TOWER MOUNTED SURGE ARRESTOR DETAIL

SCALE: N.T.S.

2



NOTES:

1. CONTRACTOR TO THOROUGHLY DRY AREA BEFORE CORING, INSTALLING AND SEALING CABLEPORT & BOOTS.
2. ALL PART NUMBERS ARE SITEPRO1.
3. CONTRACTOR TO FILL THE BOOT CAVITY W/ BOOT SEALER TO FORM A CONICAL SHAPE TO ALLOW WATER RUN OFF. 2 TUBES OF SCS30 ARE REQUIRED FOR EACH BOOT.
4. WATERPROOF ALL EDGES AND HOLES.

3 PORT ENTRY PANEL (E1635)

SCALE: N.T.S.

4



500 ENTERPRISE DRIVE SUITE 3A
 ROCKY HILL, CT 06067



12 INDUSTRIAL WAY
 SALEM, NH 03079

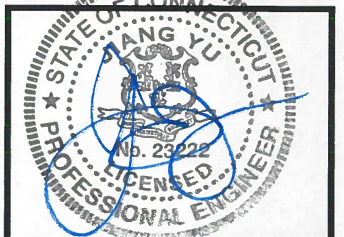
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SHEET TITLE

CONSTRUCTION
 DETAILS II

SHEET NUMBER



500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 06067



12 INDUSTRIAL WAY
SALEM, NH 03079

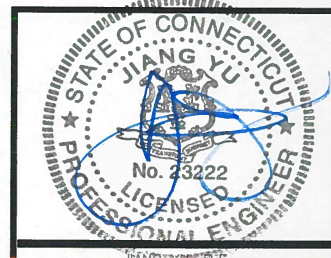
**CT2125
NEWTOWN**

CONSTRUCTION DRAWINGS

0	03/18/19	ISSUED AS FINAL
C	02/28/19	REVISED PER COMMENTS
B	01/29/19	REVISED PER COMMENTS
A	01/09/19	ISSUED FOR REVIEW



Dewberry Engineers Inc.
600 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710



JIANG YU, P.E.
CONNECTICUT LICENSE NO. 0023222
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT.

DRAWN BY: BJR

REVIEWED BY: BSH

CHECKED BY: GHN

PROJECT NUMBER: 50055106

JOB NUMBER: 50093831

SITE ADDRESS:

6 FAIRFIELD DRIVE
NEWTOWN, CT 06470

SHEET TITLE

CONSTRUCTION
DETAILS III

SHEET NUMBER

C-7

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-LWRM	RING MOUNT WELDMENT		68.16	408.95
2	88	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
3	60	A58NUT	5/8" HDG A325 HEX NUT		0.13	7.78
4	18	G58R-24	5/8" x 24" THREADED ROD (HDG.)		0.55	9.88
4	18	G58R-48	5/8" x 48" THREADED ROD (HDG.)		0.55	9.88
5	24	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	8.53
6	24	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.82
7	36	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.73	26.34
8	264	G12FW	1/2" HDG US9 FLATWASHER		0.03	8.99
9	252	G12LW	1/2" HDG LOCKWASHER		0.01	3.50
10	252	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	18.03
11	12	P296	2-3/8" X 96" SCH. 40 GALVANIZED PIPE	96 in	30.76	369.08
12	84	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.73	61.46
13	3	P3150	3-1/2" X 150" SCH 40 GALVANIZED PIPE	150 in	94.80	284.40
14	3	X-SV196	LOW PROFILE PLATFORM CORNER		212.10	636.31
15	3	P2150	2-3/8" OD X 150" SCH 40 GALVANIZED PIPE	150 in	48.06	144.17
16	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
17	15	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	90.32
18	6	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	0.78
19	6	X-253993	PLATFORM REINFORCEMENT KIT ANGLE	52 25/32 in	14.33	85.99
20	6	X-253992	T-BRACKET FOR REINFORCEMENT KIT		13.55	81.27
21	6	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.62
22	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
23	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
TOTAL WT. #						2448.72

TOLERANCE NOTES
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
BENDS ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.030"$)

PROPRIETARY NOTE
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALHALL INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALHALL INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION
12' 6" LOW PROFILE PLATFORM
WITH TWELVE 2-3/8" ANTENNA MOUNTING
PIPES, AND HANDRAIL

SITE PRO
Engineering Support Team:
1-888-783-7448
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

CPD NO. 4488	DRAWN BY CEK 7/14/2014	ENG. APPROVAL	PART NO. RMQP-496-HK
CLASS B1	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY BMC 7/14/2014
		DWG. NO. RMQP-496-HK	SCALE N.T.S.

ANTENNA MOUNT DETAIL 1
SCALE: N.T.S.

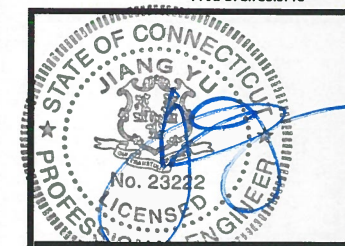
NOTE:
1. INSTALL PROPOSED PLATFORM WITH HANDRAIL IN ACCORDANCE WITH THE MOUNT ANALYSIS BY B+ GROUP DATED JANUARY 22, 2019.

CONSTRUCTION DRAWINGS

O 03/18/19	ISSUED AS FINAL
C 02/26/19	REVISED PER COMMENTS
B 01/29/19	REVISED PER COMMENTS
A 01/09/19	ISSUED FOR REVIEW

Dewberry

Dewberry Engineers Inc.
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SUITE 301
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DRAWN BY: BJR

REVIEWED BY: BSH

CHECKED BY: GHN

PROJECT NUMBER: 50055106

JOB NUMBER: 50093831

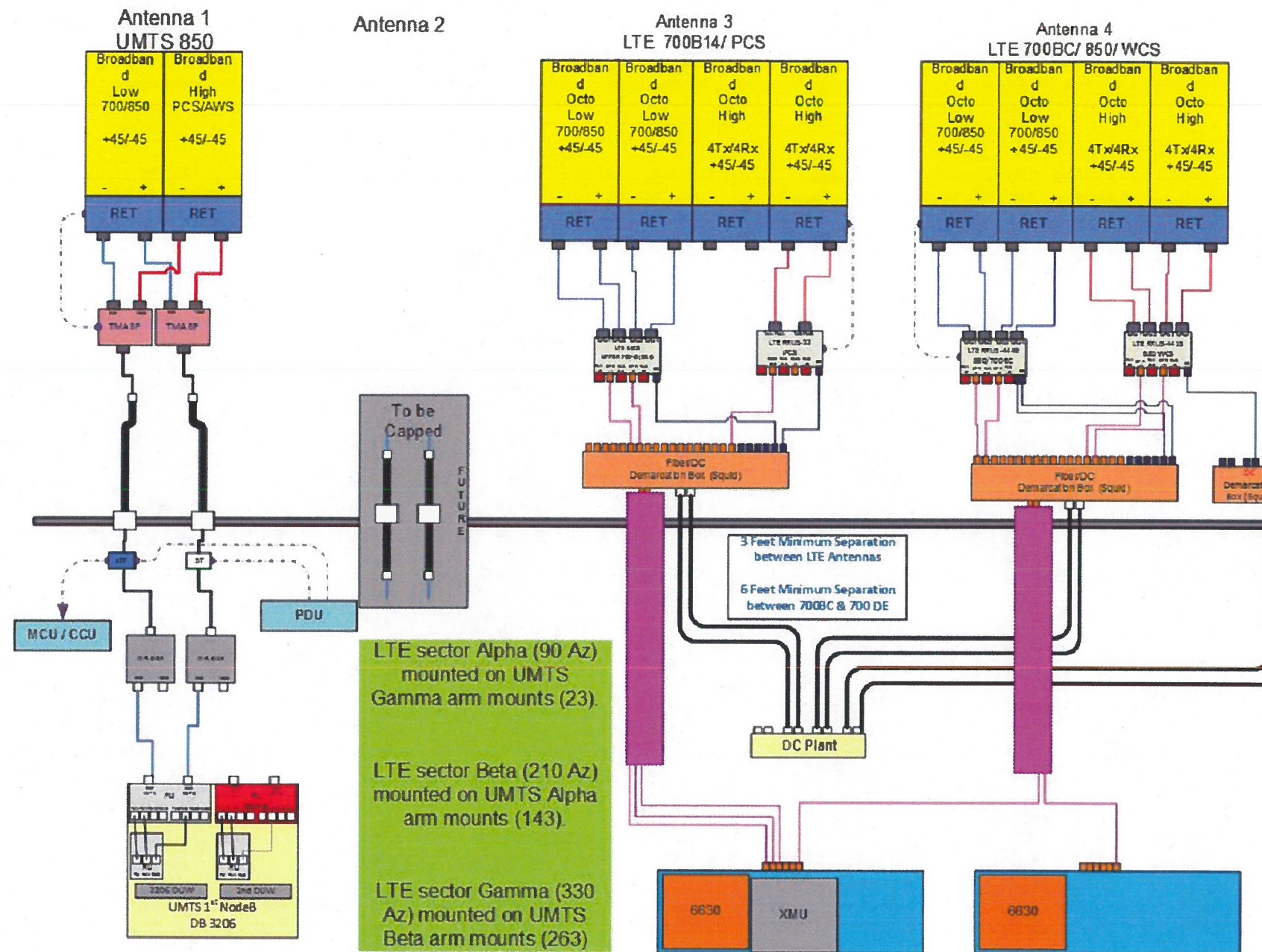
SITE ADDRESS:

6 FAIRFIELD DRIVE
NEWTOWN, CT 06470

SHEET TITLE

PLUMBING DIAGRAM

SHEET NUMBER



PLUMBING DIAGRAM
SCALE: N.T.S.

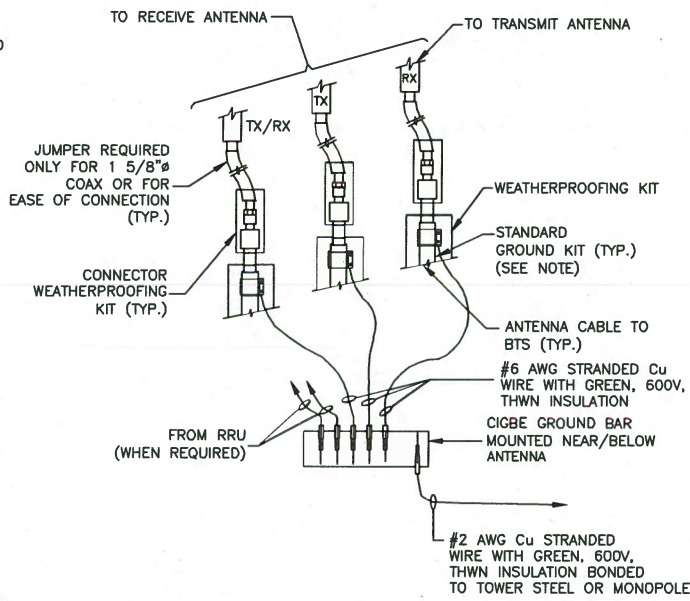
1

NOTE:

1. PLUMBING DIAGRAM BASED ON RFDS V2.00 DATED 10/01/2018. CONFIRM FINAL PLUMBING DIAGRAM WITH THE LATEST RFDS.

GROUNDING NOTES:

1. THE CONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE IAH), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE CONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE ENGINEER FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS. ALL AVAILABLE GROUNDING ELECTRODES SHALL BE CONNECTED TOGETHER IN ACCORDANCE WITH THE NEC.
3. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. USE OF OTHER METHODS MUST BE PRE-APPROVED BY THE ENGINEER IN WRITING.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS ON TOWER SITES AND 10 OHMS OR LESS ON ROOFTOP SITES. WHEN ADDING ELECTRODES, CONTRACTOR SHALL MAINTAIN A MINIMUM DISTANCE BETWEEN THE ADDED ELECTRODE AND ANY OTHER EXISTING ELECTRODE EQUAL TO THE BURIED LENGTH OF THE ROD. IDEALLY, CONTRACTOR SHALL STRIVE TO KEEP THE SEPARATION DISTANCE EQUAL TO TWICE THE BURIED LENGTH OF THE RODS.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
6. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE AND UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
7. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO TRANSMISSION EQUIPMENT.
8. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK-TO-BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. IN ALL CASES, BENDS SHALL BE MADE WITH A MINIMUM BEND RADIUS OF 8 INCHES.
11. EACH INTERIOR TRANSMISSION CABINET FRAME/PLINTH SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH #6 AWG STRANDED, GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRE UNLESS NOTED OTHERWISE IN THE DETAILS. EACH OUTDOOR CABINET FRAME/PLINTH SHALL BE DIRECTLY CONNECTED TO THE BURIED GROUND RING WITH 2 AWG SOLID TIN-PLATED COPPER WIRE UNLESS NOTED OTHERWISE IN THE DETAILS.
12. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE 2 AWG SOLID TIN-PLATED COPPER UNLESS OTHERWISE INDICATED.
13. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE. CONNECTIONS TO ABOVE GRADE UNITS SHALL BE MADE WITH EXOTHERMIC WELDS WHERE PRACTICAL OR WITH 2 HOLE MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS. HIGH PRESSURE CRIMP CONNECTORS MAY ONLY BE USED WITH WRITTEN PERMISSION FROM SAI MARKET REPRESENTATIVE.
14. EXOTHERMIC WELDS SHALL BE PERMITTED ON TOWERS ONLY WITH THE EXPRESS APPROVAL OF THE TOWER MANUFACTURER OR THE CONTRACTORS' STRUCTURAL ENGINEER.
15. ALL WIRE TO WIRE GROUND CONNECTIONS TO THE INTERIOR GROUND RING SHALL BE FORMED USING HIGH PRESS CRIMPS OR SPLIT BOLT CONNECTORS WHERE INDICATED IN THE DETAILS.
16. ON ROOFTOP SITES WHERE EXOTHERMIC WELDS ARE A FIRE HAZARD COPPER COMPRESSION CAP CONNECTORS MAY BE USED FOR WIRE TO WIRE CONNECTIONS. 2 HOLE MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS SHALL BE USED FOR CONNECTION TO ALL ROOFTOP TRANSMISSION EQUIPMENT AND STRUCTURAL STEEL.
17. COAX BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR USING TWO-HOLE MECHANICAL TYPE BRASS CONNECTORS AND STAINLESS STEEL HARDWARE.
18. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
19. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
20. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
21. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF THE BURIED GROUND RING WITH 2 AWG SOLID TIN-PLATED COPPER GROUND CONDUCTOR. DURING EXCAVATION FOR NEW GROUND CONDUCTORS, IF EXISTING GROUND CONDUCTORS ARE ENCOUNTERED, BOND EXISTING GROUND CONDUCTORS TO NEW CONDUCTORS.
22. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT WITH LISTED BONDING FITTINGS.

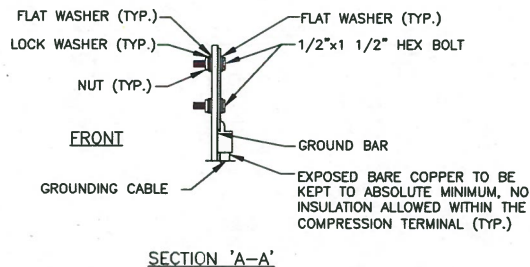
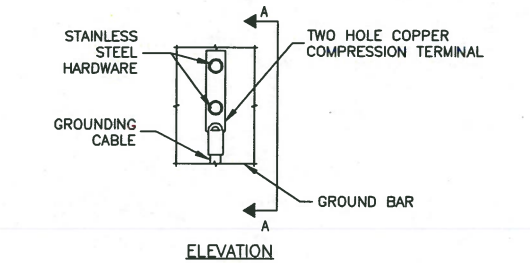


NOTE:

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

CONNECTION OF GROUND WIRES TO GROUNDING BAR (CIGBE)

1



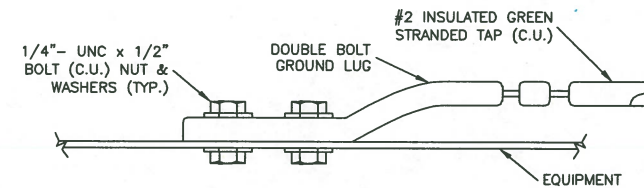
NOTES:

1. DOUBLING UP OR STACKING OF CONNECTIONS IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

TYPICAL GROUND BAR MECHANICAL CONNECTION DETAIL

SCALE: N.T.S.

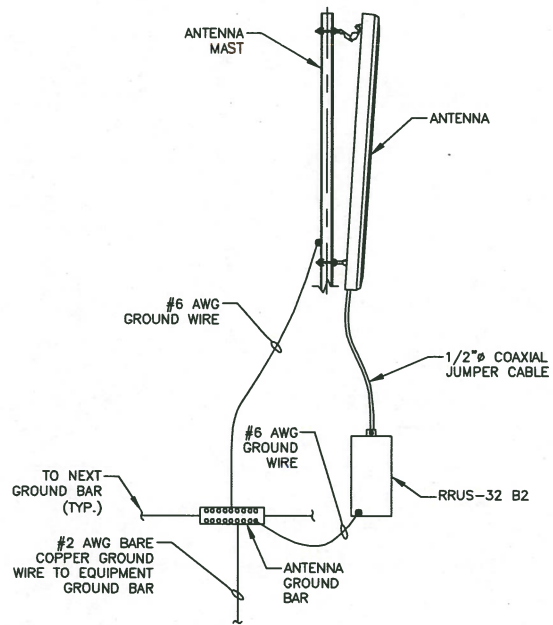
2



CONNECTION TO EQUIPMENT DETAIL

SCALE: N.T.S.

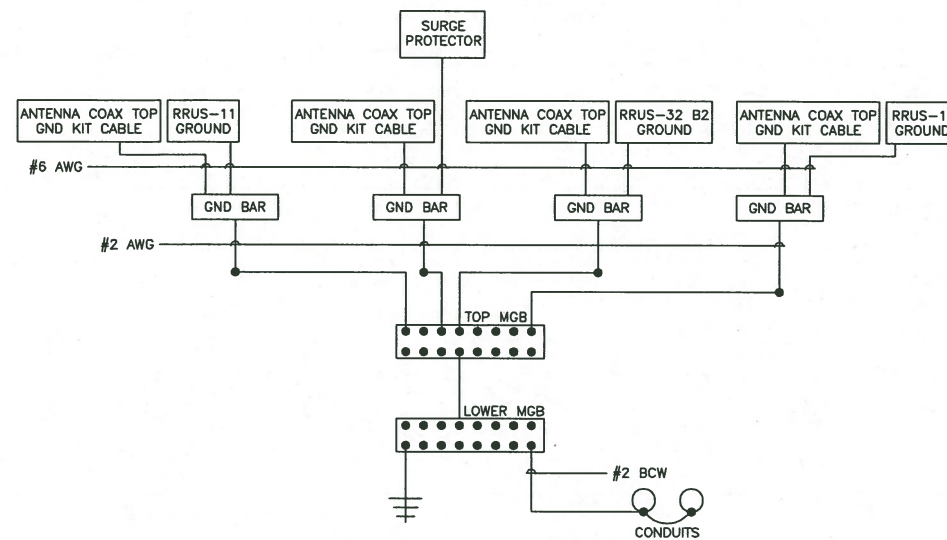
3



TYPICAL ANTENNA GROUNDING DETAIL

SCALE: N.T.S.

4



NOTES:

1. BOND ANTENNA GROUNDING KIT CABLE TO TOP CIGBE
2. BOND ANTENNA GROUNDING KIT CABLE TO BOTTOM CIGBE.
3. SCHEMATIC GROUNDING DIAGRAM IS TYPICAL FOR EACH SECTOR.
4. GROUND ALL EQUIPMENT PER MANUFACTURER RECOMMENDATIONS.

SCHEMATIC GROUNDING DIAGRAM

SCALE: N.T.S.

5



500 ENTERPRISE DRIVE SUITE 3A
ROCKY HILL, CT 06067



12 INDUSTRIAL WAY
SALEM, NH 03079

**CT2125
NEWTOWN**

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PROJECT NUMBER: 50055106
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6 FAIRFIELD DRIVE
NEWTOWN, CT 06470

SHEET TITLE

**GROUNDING NOTES
& DETAILS**

SHEET NUMBER



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 152 ft Monopole
ATC Site Name : Newtown CT 3, CT
ATC Site Number : 302518
Engineering Number : OAA745673_C3_01
Proposed Carrier : AT&T MOBILITY
Carrier Site Name : ROUND SWAMP
Carrier Site Number : CT2125
Site Location : 6 Fairfield Dr (Brkfld)
Newtown, CT 06470-1216
41.425500,-73.374000
County : Fairfield
Date : February 6, 2019
Max Usage : 54%
Result : Pass

Prepared By:
Joseph Rhyne
Engineer Intern

Reviewed By:

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
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Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 152 ft monopole to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower Drawings	EEI Job #8238 Rev 2, dated January 30, 2001
Foundation Drawing	EEI Job #8238, dated November 16, 2000
Geotechnical Report	Soiltesting Project #G128-5268-98, dated September 8, 1999

Analysis

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

Basic Wind Speed:	93 mph (3-Second Gust, Vasd) / 120 mph (3-Second Gust, Vult)
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:	B
Topographic Category:	1
Crest Height:	0 ft
Spectral Response:	$S_s = 0.21, S_1 = 0.07$
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
142.0	6	RFS FD9R6004/1C-3L	Flush	(12) 1 5/8" Coax	VERIZON WIRELESS
	3	Rymsa MGD3-800T0			
	6	Andrew DB846H80E-SX			
	3	Powerwave Allgon P65-16-XL-2			
134.0	6	Kathrein Scala 860-10025	Low Profile Platform	(12) 1 5/8" Coax	METRO PCS INC
	3	Kathrein Scala 800 10504			
	3	Kathrein Scala 742 351			
	3	KMW AWS Twin Dual 700 Bypass	Low Profile Platform	(12) 1 5/8" Coax (1) 1.58" (40.1mm) Hybrid	T-MOBILE
	3	Ericsson RRUS 11 B12			
	3	Ericsson AIR 21, 1.3 M, B2A B4P			
30.0	1	Generic 2" x 4" GPS	Flush	(1) 1/2" Coax	VERIZON WIRELESS

Equipment to be Removed

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
152.0	3	Powerwave Allgon P65-16-XLH-RR	-	(1) 0.39" (10mm) Fiber Trunk (2) 0.78" (19.7mm) 8 AWG 6 (12) 1 5/8" Coax (1) 2" conduit	AT&T MOBILITY
149.0	6	Powerwave Allgon LGP21901			
	12	Powerwave Allgon 7020.00 Dual Band RET			
	3	CCI DTMABP7819VG12A			
	6	Powerwave Allgon LGP21401			
	1	Raycap DC6-48-60-18-8F			
	3	Ericsson RRUS 11 (Band 12) (55 lb)			
	3	Ericsson RRUS-12 1900 MHz			
6	Powerwave Allgon 7770.00				

Proposed Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
152.0	6	Powerwave Allgon LGP21901	Platform with Handrails	(2) 0.39" (10mm) Fiber Trunk (6) 0.78" (19.7mm) 8 AWG 6 (12) 1 5/8" Coax (3) 2" conduit	AT&T MOBILITY
	12	Powerwave Allgon 7020.00 Dual Band RET			
	3	CCI DTMABP7819VG12A			
	6	Powerwave Allgon LGP21401			
	1	Raycap DC6-48-60-18-8F			
	3	Ericsson RRUS 4415 B30			
	3	Ericsson RRUS 4449 B5, B12			
	3	Ericsson RRUS 4478 B14			
	1	Raycap DC6-48-60-18-8C			
	3	Ericsson RRUS-12 1900 MHz			
	1	Raycap DC6-48-60-18-8C-EV			
	3	Powerwave Allgon 7770.00			
	6	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 outside the pole shaft. Stacking lines is not allowed.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	43%	Pass
Shaft	54%	Pass
Base Plate	49%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	3,859.3	5,210.1	2,408.9	46%
Shear (Kips)	34.7	46.8	21.1	45%

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

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

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
152.0	Powerwave Allgon LGP21901	AT&T MOBILITY	1.377	1.089
	Powerwave Allgon 7020.00 Dual Band RET			
	CCI DTMAP7819VG12A			
	Powerwave Allgon LGP21401			
	Raycap DC6-48-60-18-8F			
	Ericsson RRUS 4415 B30			
	Ericsson RRUS 4449 B5, B12			
	Ericsson RRUS 4478 B14			
	Raycap DC6-48-60-18-8C			
	Ericsson RRUS-12 1900 MHz			
	Raycap DC6-48-60-18-8C-EV			
	Powerwave Allgon 7770.00			
Kathrein Scala 80010965				

*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

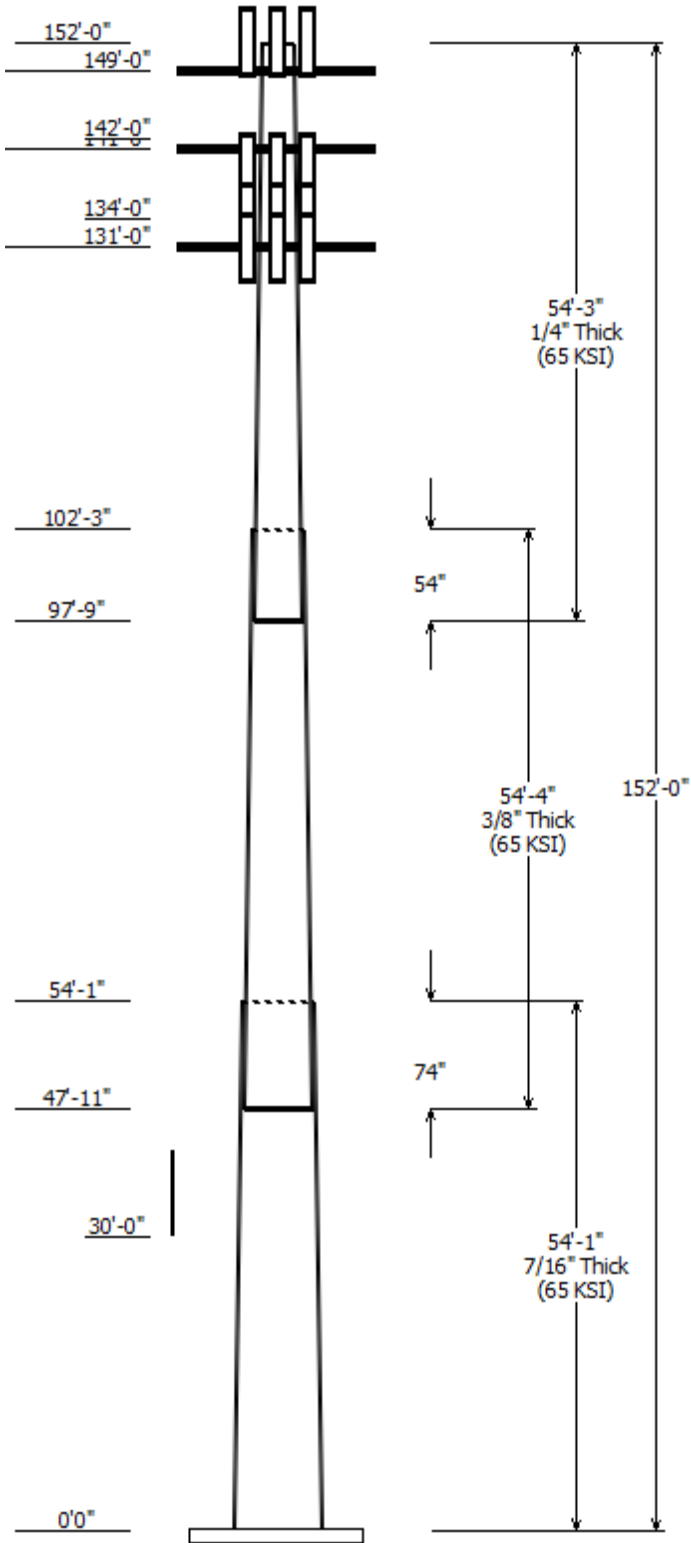
It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

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 : 302518	Code: ANSI/TIA-222-G
Location : Newtown CT 3, CT	
Description :	
Client : AT&T MOBILITY	Struct Class : II
Shape : 18 Sides	Exposure : B
Height : 152.00 (ft)	Topo : 1
Base Elev (ft): 0.00	
Taper: 0.268092in/ft)	

Sections Properties						
Shaft Section	Length (ft)	Diameter (in)		Joint Type	Overlap Length (in)	Steel Grade
		Across Top	Flats Bottom			
1	54.083	42.25	56.75	0.438	0.000	18 Sides 65
2	54.333	30.08	44.65	0.375 Slip Joint	74.000	18 Sides 65
3	54.250	17.25	31.79	0.250 Slip Joint	54.000	18 Sides 65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
152.000	152.000	6	Kathrein Scala 80010965
152.000	152.000	3	Powerwave Allgon 7770.00
152.000	152.000	1	Raycap DC6-48-60-18-8C-EV
152.000	152.000	3	Ericsson RRUS-12 1900 MHz
152.000	152.000	1	Raycap DC6-48-60-18-8C
152.000	152.000	3	Ericsson RRUS 4478 B14
152.000	152.000	3	Ericsson RRUS 4449 B5, B12
152.000	152.000	3	Ericsson RRUS 4415 B30
152.000	152.000	1	Raycap DC6-48-60-18-8F
152.000	152.000	6	Powerwave Allgon LGP21401
152.000	152.000	3	CCI DTMABP7819VG12A
152.000	152.000	12	Powerwave Allgon 7020.00
152.000	152.000	6	Powerwave Allgon LGP21901
149.000	149.000	1	Flat Platform w/ Handrails
142.000	141.000	3	Powerwave Allgon P65-16-XL-
142.000	141.000	6	Andrew DB846H80E-SX
142.000	141.000	3	Ryma MGD3-800T0
142.000	142.000	6	RFS FD9R6004/1C-3L
141.000	141.000	1	Flat Low Profile Platform
134.000	132.000	3	Commscope SBNH-1D65C
134.000	132.000	3	Ericsson AIR 21, 1.3 M, B2A B4
134.000	132.000	3	Ericsson RRUS 11 B12
134.000	132.000	3	KMW AWS Twin Dual 700
134.000	134.000	3	Kathrein Scala 742 351
134.000	134.000	3	Kathrein Scala 800 10504
134.000	134.000	6	Kathrein Scala 860-10025
131.000	131.000	1	Flat Low Profile Platform
30.000	141.000	1	Generic 2" x 4" GPS

Linear Appurtenance			
From Elev (ft)	To Elev (ft)	Description	Exposed To Wind
0.000	30.000	1/2" Coax	No
0.000	132.0	1 1/4" Hybriflex	No
0.000	134.0	1 5/8" Coax	No
0.000	134.0	1 5/8" Coax	No
0.000	134.0	1.58" (40.1mm)	No
0.000	142.0	1 5/8" Coax	No
0.000	152.0	0.39" (10mm)	No
0.000	152.0	0.78" (19.7mm) 8	No
0.000	152.0	1 5/8" Coax	Yes

0.000 152.0 2" conduit No

Load Cases

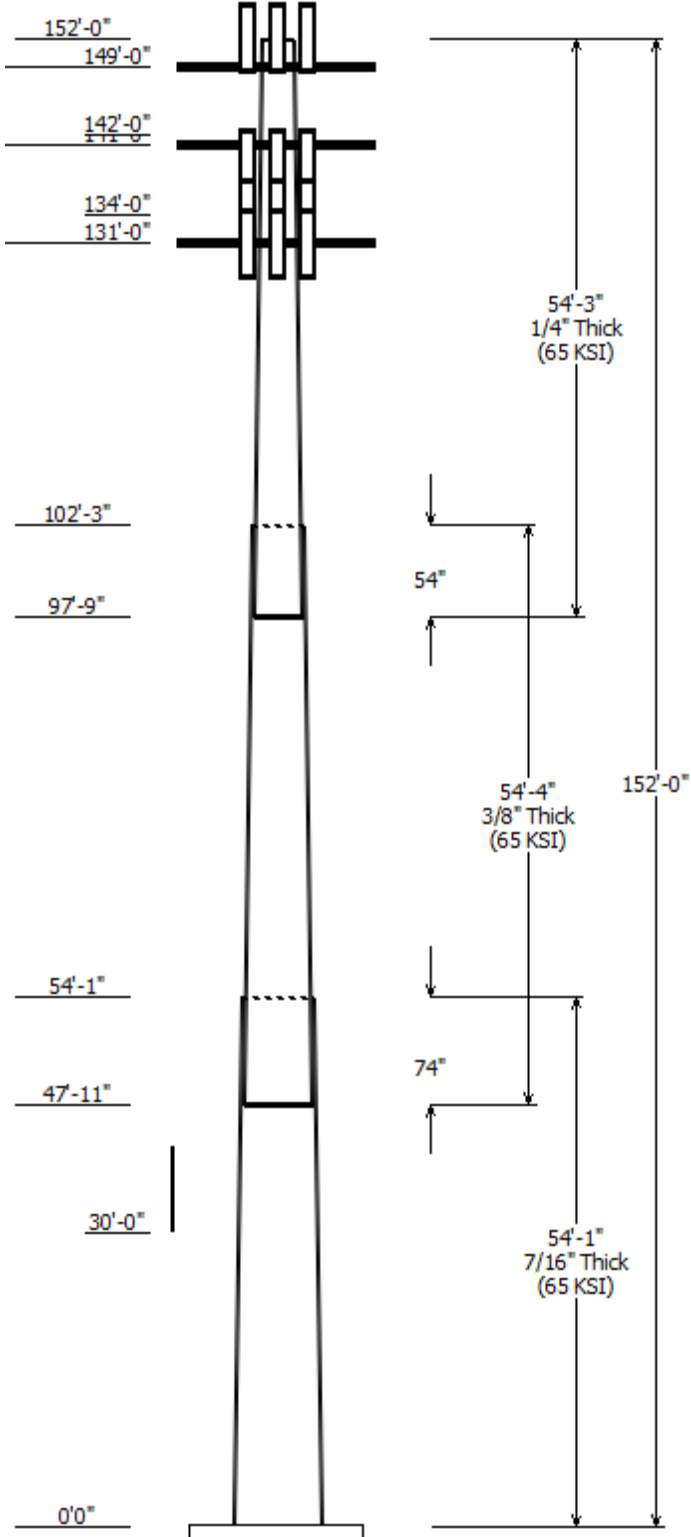
1.2D + 1.6W	93 mph with No Ice
0.9D + 1.6W	93 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL)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

Reactions

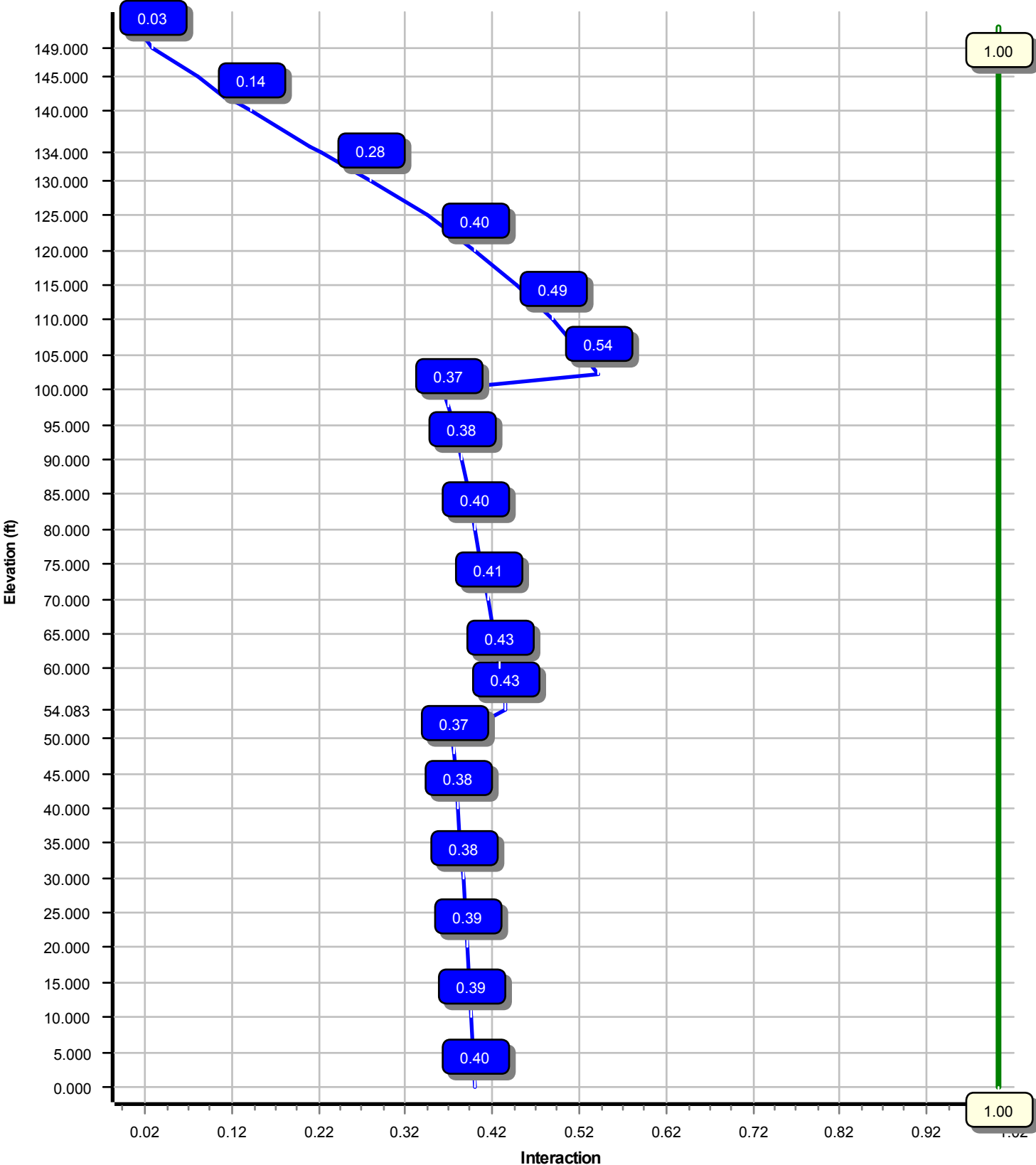
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	2408.89	21.10	48.54
0.9D + 1.6W	2323.86	20.61	36.40
1.2D + 1.0Di + 1.0Wi	706.60	6.27	80.82
(1.2 + 0.2Sds) * DL + E ELFM	165.77	1.32	48.38
(1.2 + 0.2Sds) * DL + E EMAM	299.59	2.45	48.38
(0.9 - 0.2Sds) * DL + E ELFM	163.56	1.32	33.24
(0.9 - 0.2Sds) * DL + E EMAM	295.15	2.44	33.24
1.0D + 1.0W	607.13	5.36	40.47

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000



Load Case : 1.2D + 1.6W
Max Ratio 54.00% at 102.2 ft



Site Number: 302518

Code: ANSI/TIA-222-G

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Site Name: Newtown CT 3, CT

Engineering Number: OAA745673_C3_01

2/8/2019 3:11:05 PM

Customer: AT&T MOBILITY

Analysis Parameters

Location :	FAIRFIELD County, CT	Height (ft) :	152
Code :	ANSI/TIA-222-G	Base Diameter (in) :	56.75
Shape :	18 Sides	Top Diameter (in) :	17.25
Pole Type :	Taper	Taper (in/ft) :	0.268
Pole Manufacturer :	EEl	Rotation (deg) :	0.00

Ice & Wind Parameters

Structure Class:	II	Design Wind Speed Without Ice:	93 mph
Exposure Category:	B	Design Wind Speed With Ice:	50 mph
Topographic Category:	1	Operational Wind Speed:	60 mph
Crest Height:	0 ft	Design Ice Thickness:	0.75 in

Seismic Parameters

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	2.29		
T _L (sec):	6	p:	1
S _s :	0.210	S ₁ :	0.070
F _a :	1.600	F _v :	2.400
S _{ds} :	0.224	S _{d1} :	0.112
		C _s :	0.033
		C _s Max:	0.033
		C _s Min:	0.030

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 + 0.2S _{ds}) * DL + E ELFM	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2S _{ds}) * DL + E EMAM	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2S _{ds}) * DL + E ELFM	Seismic (Reduced DL) Equivalent Lateral Forces Method
(0.9 - 0.2S _{ds}) * DL + E EMAM	Seismic (Reduced DL) Equivalent Modal Analysis Method
1.0D + 1.0W	Serviceability 60 mph

Site Number: 302518

Code: ANSI/TIA-222-G

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Site Name: Newtown CT 3, CT

Engineering Number: OAA745673_C3_01

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Customer: AT&T MOBILITY

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom				Top				Taper (in/ft)				
							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
1-18	54.083	0.4375	65		0.00	12,538	56.75	0.00	78.19	31328.3	21.46	129.71	42.25	54.08	58.06	12825.1	15.62	96.57	0.268092
2-18	54.333	0.3750	65	Slip	74.00	8,141	44.65	47.92	52.70	13054.7	19.59	119.08	30.08	102.25	35.36	3944.5	12.74	80.23	0.268092
3-18	54.250	0.2500	65	Slip	54.00	3,555	31.79	97.75	25.03	3146.6	21.01	127.18	17.25	152.00	13.49	492.5	10.76	69.00	0.268092
Shaft Weight						24,234													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Distance From Face (ft)	Vert Ecc (ft)	Weight (lb)	No Ice EPAa (sf)	Orientation Factor
152.00	CCI DTMABP7819VG12A	3	0.000	0.000	19.20	0.970	0.50
152.00	Ericsson RRUS 4415 B30	3	0.000	0.000	46.00	1.840	0.50
152.00	Ericsson RRUS 4449 B5, B12	3	0.000	0.000	71.00	1.970	0.50
152.00	Ericsson RRUS 4478 B14	3	0.000	0.000	59.40	2.020	0.67
152.00	Ericsson RRUS-12 1900 MHz	3	0.000	0.000	60.00	2.700	0.67
152.00	Kathrein Scala 80010965	6	0.000	0.000	97.60	13.810	0.62
152.00	Powerwave Allgon 7020.00 Dual	12	0.000	0.000	2.20	0.340	0.50
152.00	Powerwave Allgon 7770.00	3	0.000	0.000	35.00	5.510	0.65
152.00	Powerwave Allgon LGP21401	6	0.000	0.000	14.10	1.100	0.50
152.00	Powerwave Allgon LGP21901	6	0.000	0.000	5.50	0.200	0.50
152.00	Raycap DC6-48-60-18-8C	1	0.000	0.000	16.00	2.030	1.00
152.00	Raycap DC6-48-60-18-8C-EV	1	0.000	0.000	16.00	4.790	1.00
152.00	Raycap DC6-48-60-18-8F	1	0.000	0.000	20.00	1.260	1.00
149.00	Flat Platform w/ Handrails	1	0.000	0.000	2448.71	42.400	1.00
142.00	Andrew DB846H80E-SX	6	0.000	-1.000	16.00	5.870	0.73
142.00	Powerwave Allgon P65-16-XL-2	3	0.000	-1.000	33.00	8.130	0.65
142.00	RFS FD9R6004/1C-3L	6	0.000	0.000	3.10	0.310	0.50
142.00	Rymasa MGD3-800T0	3	0.000	-1.000	19.80	3.450	0.69
141.00	Flat Low Profile Platform	1	0.000	0.000	1500.00	26.100	1.00
134.00	Commscope SBNH-1D65C	3	0.000	-2.000	49.60	11.460	0.70
134.00	Ericsson AIR 21, 1.3 M, B2A B4	3	0.000	-2.000	83.00	6.050	0.71
134.00	Ericsson RRUS 11 B12	3	0.000	-2.000	50.70	2.790	0.67
134.00	Kathrein Scala 742 351	3	0.000	0.000	29.80	5.390	0.60
134.00	Kathrein Scala 800 10504	3	0.000	0.000	17.60	3.340	0.66
134.00	Kathrein Scala 860-10025	6	0.000	0.000	1.10	0.140	0.50
134.00	KMW AWS Twin Dual 700 Bypass	3	0.000	-2.000	17.40	0.990	0.50
131.00	Flat Low Profile Platform	1	0.000	0.000	1500.00	26.100	1.00
30.00	Generic 2" x 4" GPS	1	0.000	111.000	5.00	0.040	1.00
Totals	Num Loadings:28	97			8131.01		

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Diameter (in)	Coax Weight (lb/ft)	Projected Flat	Projected Width (in)	Exposed To Wind	Carrier
0.00	152.00	2	0.39" (10mm) Fiber	0.39	0.06	N	0.00	N	AT&T MOBILITY
0.00	152.00	6	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0.00	N	AT&T MOBILITY
0.00	152.00	12	1 5/8" Coax	1.98	0.82	N	3.96	Y	AT&T MOBILITY
0.00	152.00	3	2" conduit	2.38	3.65	N	0.00	N	AT&T MOBILITY
0.00	142.00	12	1 5/8" Coax	1.98	0.82	N	0.00	N	VERIZON WIRELESS
0.00	134.00	12	1 5/8" Coax	1.98	0.82	N	0.00	N	METRO PCS INC
0.00	134.00	12	1 5/8" Coax	1.98	0.82	N	0.00	N	T-MOBILE
0.00	134.00	1	1.58" (40.1mm) Hybrid	1.58	1.61	N	0.00	N	T-MOBILE

Site Number: 302518

Code: ANSI/TIA-222-G

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Site Name: Newtown CT 3, CT

Engineering Number: OAA745673_C3_01

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Customer: AT&T MOBILITY

0.00	132.00	1	1 1/4" Hybriflex Cable	1.54	1.00	N	0.00	N	T-MOBILE
0.00	30.00	1	1/2" Coax	0.63	0.15	N	0.00	N	VERIZON WIRELESS

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)
0.00		0.4375	56.750	78.194	31,328.3	21.46	129.71	76.2	1087.	0.0	0.0
5.00		0.4375	55.410	76.333	29,143.9	20.92	126.65	76.8	1036.	0.0	1,314.6
10.00		0.4375	54.069	74.471	27,063.5	20.38	123.59	77.4	985.9	0.0	1,282.9
15.00		0.4375	52.729	72.610	25,084.5	19.84	120.52	78.1	937.0	0.0	1,251.2
20.00		0.4375	51.388	70.749	23,204.5	19.30	117.46	78.7	889.4	0.0	1,219.5
25.00		0.4375	50.048	68.887	21,420.8	18.76	114.39	79.3	843.0	0.0	1,187.9
30.00		0.4375	48.707	67.026	19,730.9	18.22	111.33	80.0	797.9	0.0	1,156.2
35.00		0.4375	47.367	65.165	18,132.3	17.68	108.27	80.6	754.0	0.0	1,124.5
40.00		0.4375	46.026	63.303	16,622.5	17.14	105.20	81.2	711.3	0.0	1,092.9
45.00		0.4375	44.686	61.442	15,199.0	16.60	102.14	81.9	669.9	0.0	1,061.2
47.92	Bot - Section 2	0.4375	43.904	60.356	14,407.3	16.28	100.35	82.2	646.3	0.0	604.4
50.00		0.4375	43.345	59.581	13,859.1	16.06	99.08	82.5	629.8	0.0	796.4
54.08	Top - Section 1	0.3750	43.001	50.733	11,646.4	18.81	114.67	79.3	533.5	0.0	1,531.3
55.00		0.3750	42.755	50.441	11,446.1	18.69	114.01	79.4	527.3	0.0	157.8
60.00		0.3750	41.414	48.845	10,394.0	18.06	110.44	80.2	494.3	0.0	844.6
65.00		0.3750	40.074	47.250	9,408.4	17.43	106.86	80.9	462.4	0.0	817.5
70.00		0.3750	38.734	45.655	8,487.2	16.80	103.29	81.6	431.6	0.0	790.3
75.00		0.3750	37.393	44.059	7,628.1	16.17	99.71	82.4	401.8	0.0	763.2
80.00		0.3750	36.053	42.464	6,829.1	15.54	96.14	82.6	373.1	0.0	736.0
85.00		0.3750	34.712	40.868	6,087.9	14.91	92.57	82.6	345.4	0.0	708.9
90.00		0.3750	33.372	39.273	5,402.4	14.28	88.99	82.6	318.9	0.0	681.8
95.00		0.3750	32.031	37.677	4,770.4	13.65	85.42	82.6	293.3	0.0	654.6
97.75	Bot - Section 3	0.3750	31.294	36.800	4,444.8	13.30	83.45	82.6	279.8	0.0	348.5
100.0		0.3750	30.691	36.082	4,189.7	13.02	81.84	82.6	268.9	0.0	468.8
102.2	Top - Section 2	0.2500	30.588	24.072	2,799.2	20.16	122.35	77.7	180.2	0.0	459.6
105.0		0.2500	29.850	23.487	2,600.0	19.64	119.40	78.3	171.6	0.0	222.5
110.0		0.2500	28.510	22.423	2,262.5	18.70	114.04	79.4	156.3	0.0	390.6
115.0		0.2500	27.169	21.360	1,955.6	17.75	108.68	80.5	141.8	0.0	372.5
120.0		0.2500	25.829	20.296	1,677.8	16.81	103.32	81.6	127.9	0.0	354.4
125.0		0.2500	24.488	19.233	1,427.6	15.86	97.95	82.6	114.8	0.0	336.3
130.0		0.2500	23.148	18.169	1,203.6	14.92	92.59	82.6	102.4	0.0	318.2
131.0		0.2500	22.880	17.956	1,161.8	14.73	91.52	82.6	100.0	0.0	61.5
134.0		0.2500	22.076	17.318	1,042.3	14.16	88.30	82.6	93.0	0.0	180.0
135.0		0.2500	21.808	17.105	1,004.3	13.97	87.23	82.6	90.7	0.0	58.6
140.0		0.2500	20.467	16.042	828.4	13.02	81.87	82.6	79.7	0.0	282.0
141.0		0.2500	20.199	15.829	795.9	12.84	80.80	82.6	77.6	0.0	54.2
142.0		0.2500	19.931	15.616	764.2	12.65	79.72	82.6	75.5	0.0	53.5
145.0		0.2500	19.127	14.978	674.3	12.08	76.51	82.6	69.4	0.0	156.2
149.0		0.2500	18.054	14.127	565.8	11.32	72.22	82.6	61.7	0.0	198.1
150.0		0.2500	17.786	13.914	540.6	11.13	71.14	82.6	59.9	0.0	47.7
152.0		0.2500	17.250	13.489	492.5	10.76	69.00	82.6	56.2	0.0	93.2
24,233.9											

Load Case: 1.2D + 1.6W	93 mph with No Ice	24 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		199.8	0.0					0.0	0.0	199.8	0.0	0.0	0.0
5.00		394.9	1,577.5					0.0	340.4	394.9	1,917.8	0.0	0.0
10.00		385.3	1,539.5					0.0	340.4	385.3	1,879.8	0.0	0.0
15.00		375.8	1,501.5					0.0	340.4	375.8	1,841.8	0.0	0.0
20.00		366.2	1,463.5					0.0	340.4	366.2	1,803.8	0.0	0.0
25.00		356.7	1,425.5					0.0	340.4	356.7	1,765.8	0.0	0.0
30.00	Appurtenance(s)	351.2	1,387.5	1.6	0.0	179.2	6.0	0.0	340.4	352.8	1,733.8	0.0	0.0
35.00		352.8	1,349.4					0.0	339.5	352.8	1,688.9	0.0	0.0
40.00		356.2	1,311.4					0.0	339.5	356.2	1,650.9	0.0	0.0
45.00		283.1	1,273.4					0.0	339.5	283.1	1,612.9	0.0	0.0
47.92	Bot - Section 2	180.3	725.3					0.0	198.0	180.3	923.3	0.0	0.0
50.00		224.3	955.6					0.0	141.5	224.3	1,097.1	0.0	0.0
54.08	Top - Section 1	181.7	1,837.5					0.0	277.2	181.7	2,114.8	0.0	0.0
55.00		214.0	189.4					0.0	62.2	214.0	251.6	0.0	0.0
60.00		360.0	1,013.5					0.0	339.5	360.0	1,353.0	0.0	0.0
65.00		356.4	981.0					0.0	339.5	356.4	1,320.5	0.0	0.0
70.00		353.1	948.4					0.0	339.5	353.1	1,287.9	0.0	0.0
75.00		350.9	915.8					0.0	339.5	350.9	1,255.3	0.0	0.0
80.00		348.6	883.3					0.0	339.5	348.6	1,222.7	0.0	0.0
85.00		345.7	850.7					0.0	339.5	345.7	1,190.2	0.0	0.0
90.00		342.2	818.1					0.0	339.5	342.2	1,157.6	0.0	0.0
95.00		262.9	785.5					0.0	339.5	262.9	1,125.0	0.0	0.0
97.75	Bot - Section 3	169.3	418.2					0.0	186.7	169.3	604.9	0.0	0.0
100.00		152.7	562.6					0.0	152.8	152.7	715.3	0.0	0.0
102.25	Top - Section 2	167.9	551.6					0.0	152.8	167.9	704.3	0.0	0.0
105.00		256.8	267.0					0.0	186.7	256.8	453.7	0.0	0.0
110.00		327.2	468.7					0.0	339.5	327.2	808.1	0.0	0.0
115.00		321.6	447.0					0.0	339.5	321.6	786.4	0.0	0.0
120.00		315.6	425.2					0.0	339.5	315.6	764.7	0.0	0.0
125.00		309.2	403.5					0.0	339.5	309.2	743.0	0.0	0.0
130.00		183.2	381.8					0.0	339.5	183.2	721.3	0.0	0.0
131.00	Appurtenance(s)	119.9	73.8	1,031.4	0.0	0.0	1,800.0	0.0	67.9	1,151.4	1,941.7	0.0	0.0
134.00	Appurtenance(s)	119.4	216.1	1,928.1	0.0	-2,791.1	901.1	0.0	201.3	2,047.4	1,318.4	0.0	0.0
135.00		175.6	70.3					0.0	41.1	175.6	111.4	0.0	0.0
140.00		174.7	338.4					0.0	205.7	174.7	544.1	0.0	0.0
141.00	Appurtenance(s)	57.4	65.1	1,053.4	0.0	0.0	1,800.0	0.0	41.1	1,110.7	1,906.2	0.0	0.0
142.00	Appurtenance(s)	113.5	64.2	2,003.3	0.0	-1,965.7	327.6	0.0	41.1	2,116.8	432.9	0.0	0.0
145.00		239.1	187.4					0.0	88.0	239.1	275.4	0.0	0.0
149.00	Appurtenance(s)	191.5	237.7	1,738.4	0.0	0.0	2,938.5	64.2	117.4	1,994.1	3,293.5	0.0	0.0
150.00		110.5	57.3					16.1	29.3	126.6	86.6	0.0	0.0
152.00	Appurtenance(s)	73.2	111.9	2,869.7	0.0	0.0	1,984.1	32.2	58.7	2,975.2	2,154.7	0.0	0.0
Totals:										21,259.0	48,561.5	0.00	0.00

Load Case: 1.2D + 1.6W

93 mph with No Ice

24 Iterations

Gust Response Factor :1.10

Wind Importance Factor :1.00

Dead Load Factor :1.20

Wind Load Factor :1.60

Calculated Forces

Seg	Pu	Vu	Tu	Mu	Mu	Resultant	phi	phi	phi	phi	Total		
Elev	FY (-)	FX (-)	MY	MZ	MX	Moment	Pn	Vn	Tn	Mn	Deflect	Rotation	Ratio
(ft)	(kips)	(kips)	(ft-kips)	(ft-kips)	(ft-kips)	(ft-kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(in)	(deg)	
0.00	-48.54	-21.10	0.00	-2,408.89	0.00	2,408.89	5,359.60	2,679.80	12,402.6	6,210.55	0.00	0.00	0.397
5.00	-46.58	-20.80	0.00	-2,303.37	0.00	2,303.37	5,275.68	2,637.84	11,915.5	5,966.65	0.06	-0.11	0.395
10.00	-44.67	-20.49	0.00	-2,199.39	0.00	2,199.39	5,189.62	2,594.81	11,433.1	5,725.08	0.23	-0.22	0.393
15.00	-42.79	-20.19	0.00	-2,096.93	0.00	2,096.93	5,101.44	2,550.72	10,955.7	5,485.99	0.52	-0.33	0.391
20.00	-40.94	-19.90	0.00	-1,995.97	0.00	1,995.97	5,011.12	2,505.56	10,483.5	5,249.58	0.92	-0.45	0.388
25.00	-39.14	-19.61	0.00	-1,896.48	0.00	1,896.48	4,918.68	2,459.34	10,017.1	5,016.02	1.46	-0.57	0.386
30.00	-37.37	-19.32	0.00	-1,798.25	0.00	1,798.25	4,824.11	2,412.05	9,556.78	4,785.49	2.11	-0.69	0.384
35.00	-35.64	-19.02	0.00	-1,701.66	0.00	1,701.66	4,727.41	2,363.70	9,102.80	4,558.17	2.90	-0.81	0.381
40.00	-33.95	-18.72	0.00	-1,606.54	0.00	1,606.54	4,628.58	2,314.29	8,655.58	4,334.22	3.82	-0.94	0.378
45.00	-32.31	-18.47	0.00	-1,512.94	0.00	1,512.94	4,527.62	2,263.81	8,215.47	4,113.84	4.88	-1.08	0.375
47.92	-31.37	-18.31	0.00	-1,459.08	0.00	1,459.08	4,467.74	2,233.87	7,962.16	3,987.00	5.57	-1.16	0.373
50.00	-30.25	-18.11	0.00	-1,420.94	0.00	1,420.94	4,424.53	2,212.27	7,782.82	3,897.19	6.09	-1.22	0.372
54.08	-28.12	-17.91	0.00	-1,346.99	0.00	1,346.99	3,619.86	1,809.93	6,334.27	3,171.85	7.18	-1.33	0.433
55.00	-27.84	-17.74	0.00	-1,330.57	0.00	1,330.57	3,605.16	1,802.58	6,271.86	3,140.59	7.44	-1.36	0.431
60.00	-26.45	-17.42	0.00	-1,241.87	0.00	1,241.87	3,523.72	1,761.86	5,934.59	2,971.70	8.95	-1.52	0.426
65.00	-25.09	-17.10	0.00	-1,154.76	0.00	1,154.76	3,440.15	1,720.07	5,602.88	2,805.61	10.63	-1.68	0.419
70.00	-23.76	-16.78	0.00	-1,069.26	0.00	1,069.26	3,354.45	1,677.22	5,277.11	2,642.48	12.48	-1.85	0.412
75.00	-22.47	-16.45	0.00	-985.36	0.00	985.36	3,266.62	1,633.31	4,957.62	2,482.50	14.52	-2.03	0.404
80.00	-21.21	-16.13	0.00	-903.09	0.00	903.09	3,154.85	1,577.42	4,612.87	2,309.86	16.73	-2.20	0.398
85.00	-19.99	-15.80	0.00	-822.46	0.00	822.46	3,036.31	1,518.16	4,271.03	2,138.69	19.13	-2.38	0.391
90.00	-18.79	-15.47	0.00	-743.47	0.00	743.47	2,917.78	1,458.89	3,942.34	1,974.10	21.72	-2.56	0.383
95.00	-17.64	-15.20	0.00	-666.15	0.00	666.15	2,799.25	1,399.62	3,626.81	1,816.10	24.51	-2.75	0.373
97.75	-17.02	-15.03	0.00	-624.36	0.00	624.36	2,734.06	1,367.03	3,458.88	1,732.01	26.12	-2.86	0.367
100.00	-16.29	-14.86	0.00	-590.55	0.00	590.55	2,680.72	1,340.36	3,324.44	1,664.69	27.49	-2.94	0.361
102.25	-15.57	-14.68	0.00	-557.11	0.00	557.11	1,683.04	841.52	2,097.24	1,050.18	28.90	-3.03	0.540
105.00	-15.09	-14.45	0.00	-516.73	0.00	516.73	1,655.06	827.53	2,011.86	1,007.42	30.67	-3.14	0.522
110.00	-14.24	-14.15	0.00	-444.47	0.00	444.47	1,602.55	801.28	1,859.07	930.92	34.10	-3.40	0.487
115.00	-13.41	-13.83	0.00	-373.74	0.00	373.74	1,547.92	773.96	1,709.77	856.15	37.80	-3.66	0.446
120.00	-12.61	-13.52	0.00	-304.57	0.00	304.57	1,491.15	745.57	1,564.29	783.31	41.76	-3.90	0.398
125.00	-11.84	-13.21	0.00	-236.96	0.00	236.96	1,428.88	714.44	1,419.66	710.88	45.97	-4.13	0.342
130.00	-11.11	-12.99	0.00	-170.93	0.00	170.93	1,349.86	674.93	1,266.22	634.05	50.41	-4.34	0.278
131.00	-9.25	-11.71	0.00	-157.94	0.00	157.94	1,334.06	667.03	1,236.59	619.21	51.33	-4.38	0.262
134.00	-8.08	-9.58	0.00	-122.81	0.00	122.81	1,286.64	643.32	1,149.79	575.75	54.11	-4.48	0.220
135.00	-7.97	-9.40	0.00	-113.23	0.00	113.23	1,270.84	635.42	1,121.56	561.61	55.05	-4.51	0.208
140.00	-7.43	-9.19	0.00	-66.22	0.00	66.22	1,191.82	595.91	985.67	493.57	59.84	-4.64	0.141
141.00	-5.62	-7.94	0.00	-57.02	0.00	57.02	1,176.01	588.01	959.54	480.48	60.81	-4.66	0.124
142.00	-5.35	-5.79	0.00	-49.09	0.00	49.09	1,160.21	580.10	933.77	467.58	61.79	-4.68	0.110
145.00	-5.09	-5.54	0.00	-31.71	0.00	31.71	1,112.80	556.40	858.55	429.91	64.74	-4.72	0.078
149.00	-1.98	-3.28	0.00	-9.56	0.00	9.56	1,049.58	524.79	763.17	382.15	68.71	-4.76	0.027
150.00	-1.90	-3.14	0.00	-6.29	0.00	6.29	1,033.78	516.89	740.20	370.65	69.71	-4.76	0.019
152.00	0.00	-2.98	0.00	0.00	0.00	0.00	1,002.17	501.08	695.32	348.18	71.70	-4.77	0.000

Load Case: 0.9D + 1.6W	93 mph with No Ice (Reduced DL)	24 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		199.8	0.0					0.0	0.0	199.8	0.0	0.0	0.0
5.00		394.9	1,183.1					0.0	255.3	394.9	1,438.4	0.0	0.0
10.00		385.3	1,154.6					0.0	255.3	385.3	1,409.9	0.0	0.0
15.00		375.8	1,126.1					0.0	255.3	375.8	1,381.4	0.0	0.0
20.00		366.2	1,097.6					0.0	255.3	366.2	1,352.9	0.0	0.0
25.00		356.7	1,069.1					0.0	255.3	356.7	1,324.4	0.0	0.0
30.00	Appurtenance(s)	351.2	1,040.6	1.6	0.0	179.2	4.5	0.0	255.3	352.8	1,300.4	0.0	0.0
35.00		352.8	1,012.1					0.0	254.6	352.8	1,266.7	0.0	0.0
40.00		356.2	983.6					0.0	254.6	356.2	1,238.2	0.0	0.0
45.00		283.1	955.1					0.0	254.6	283.1	1,209.7	0.0	0.0
47.92	Bot - Section 2	180.3	544.0					0.0	148.5	180.3	692.5	0.0	0.0
50.00		224.3	716.7					0.0	106.1	224.3	822.8	0.0	0.0
54.08	Top - Section 1	181.7	1,378.1					0.0	207.9	181.7	1,586.1	0.0	0.0
55.00		214.0	142.0					0.0	46.7	214.0	188.7	0.0	0.0
60.00		360.0	760.2					0.0	254.6	360.0	1,014.8	0.0	0.0
65.00		356.4	735.7					0.0	254.6	356.4	990.3	0.0	0.0
70.00		351.8	711.3					0.0	254.6	351.8	965.9	0.0	0.0
75.00		346.4	686.9					0.0	254.6	346.4	941.5	0.0	0.0
80.00		340.2	662.4					0.0	254.6	340.2	917.1	0.0	0.0
85.00		333.3	638.0					0.0	254.6	333.3	892.6	0.0	0.0
90.00		325.7	613.6					0.0	254.6	325.7	868.2	0.0	0.0
95.00		247.6	589.2					0.0	254.6	247.6	843.8	0.0	0.0
97.75	Bot - Section 3	157.7	313.6					0.0	140.0	157.7	453.7	0.0	0.0
100.00		141.2	421.9					0.0	114.6	141.2	536.5	0.0	0.0
102.25	Top - Section 2	154.6	413.7					0.0	114.6	154.6	528.2	0.0	0.0
105.00		234.3	200.3					0.0	140.0	234.3	340.3	0.0	0.0
110.00		294.7	351.5					0.0	254.6	294.7	606.1	0.0	0.0
115.00		284.4	335.2					0.0	254.6	284.4	589.8	0.0	0.0
120.00		273.7	318.9					0.0	254.6	273.7	573.5	0.0	0.0
125.00		262.6	302.6					0.0	254.6	262.6	557.3	0.0	0.0
130.00		153.4	286.4					0.0	254.6	153.4	541.0	0.0	0.0
131.00	Appurtenance(s)	98.5	55.3	1,031.4	0.0	0.0	1,350.0	0.0	50.9	1,130.0	1,456.2	0.0	0.0
134.00	Appurtenance(s)	97.6	162.0	1,928.1	0.0	-2,791.1	675.8	0.0	151.0	2,025.6	988.8	0.0	0.0
135.00		140.5	52.7					0.0	30.9	140.5	83.6	0.0	0.0
140.00		139.0	253.8					0.0	154.3	139.0	408.1	0.0	0.0
141.00	Appurtenance(s)	44.8	48.8	1,053.4	0.0	0.0	1,350.0	0.0	30.9	1,098.2	1,429.7	0.0	0.0
142.00	Appurtenance(s)	87.6	48.2	2,003.3	0.0	-1,965.7	245.7	0.0	30.9	2,090.9	324.7	0.0	0.0
145.00		219.5	140.5					0.0	66.0	219.5	206.6	0.0	0.0
149.00	Appurtenance(s)	191.5	178.3	1,738.4	0.0	0.0	2,203.8	64.2	88.0	1,994.1	2,470.1	0.0	0.0
150.00		110.5	42.9					16.1	22.0	126.6	64.9	0.0	0.0
152.00	Appurtenance(s)	73.2	83.9	2,869.7	0.0	0.0	1,488.1	32.2	44.0	2,975.2	1,616.0	0.0	0.0
Totals:										20,781.8	36,421.1	0.00	0.00

Site Number: 302518

Code: ANSI/TIA-222-G

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Site Name: Newtown CT 3, CT

Engineering Number: OAA745673_C3_01

2/8/2019 3:11:12 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W

93 mph with No Ice (Reduced DL)

24 Iterations

Gust Response Factor :1.10

Wind Importance Factor :1.00

Dead Load Factor :0.90

Wind Load Factor :1.60

Calculated Forces

Seg	Pu	Vu	Tu	Mu	Mu	Resultant	phi	phi	phi	phi	Total		
Elev	FY (-)	FX (-)	MY	MZ	MX	Moment	Pn	Vn	Tn	Mn	Deflect	Rotation	Ratio
(ft)	(kips)	(kips)	(ft-kips)	(ft-kips)	(ft-kips)	(ft-kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(in)	(deg)	
0.00	-36.40	-20.61	0.00	-2,323.86	0.00	2,323.86	5,359.60	2,679.80	12,402.6	6,210.55	0.00	0.00	0.381
5.00	-34.93	-20.28	0.00	-2,220.78	0.00	2,220.78	5,275.68	2,637.84	11,915.5	5,966.65	0.06	-0.10	0.379
10.00	-33.48	-19.96	0.00	-2,119.38	0.00	2,119.38	5,189.62	2,594.81	11,433.1	5,725.08	0.22	-0.21	0.377
15.00	-32.06	-19.64	0.00	-2,019.60	0.00	2,019.60	5,101.44	2,550.72	10,955.7	5,485.99	0.50	-0.32	0.374
20.00	-30.67	-19.32	0.00	-1,921.42	0.00	1,921.42	5,011.12	2,505.56	10,483.5	5,249.58	0.89	-0.43	0.372
25.00	-29.32	-19.01	0.00	-1,824.82	0.00	1,824.82	4,918.68	2,459.34	10,017.1	5,016.02	1.40	-0.54	0.370
30.00	-27.98	-18.70	0.00	-1,729.58	0.00	1,729.58	4,824.11	2,412.05	9,556.78	4,785.49	2.04	-0.66	0.367
35.00	-26.68	-18.39	0.00	-1,636.06	0.00	1,636.06	4,727.41	2,363.70	9,102.80	4,558.17	2.80	-0.78	0.365
40.00	-25.41	-18.07	0.00	-1,544.09	0.00	1,544.09	4,628.58	2,314.29	8,655.58	4,334.22	3.68	-0.91	0.362
45.00	-24.17	-17.81	0.00	-1,453.72	0.00	1,453.72	4,527.62	2,263.81	8,215.47	4,113.84	4.70	-1.04	0.359
47.92	-23.46	-17.65	0.00	-1,401.76	0.00	1,401.76	4,467.74	2,233.87	7,962.16	3,987.00	5.36	-1.11	0.357
50.00	-22.62	-17.44	0.00	-1,364.99	0.00	1,364.99	4,424.53	2,212.27	7,782.82	3,897.19	5.86	-1.17	0.355
54.08	-21.01	-17.25	0.00	-1,293.77	0.00	1,293.77	3,619.86	1,809.93	6,334.27	3,171.85	6.91	-1.28	0.414
55.00	-20.80	-17.07	0.00	-1,277.96	0.00	1,277.96	3,605.16	1,802.58	6,271.86	3,140.59	7.16	-1.31	0.413
60.00	-19.75	-16.74	0.00	-1,192.63	0.00	1,192.63	3,523.72	1,761.86	5,934.59	2,971.70	8.61	-1.46	0.407
65.00	-18.72	-16.40	0.00	-1,108.96	0.00	1,108.96	3,440.15	1,720.07	5,602.88	2,805.61	10.23	-1.62	0.401
70.00	-17.72	-16.07	0.00	-1,026.93	0.00	1,026.93	3,354.45	1,677.22	5,277.11	2,642.48	12.01	-1.78	0.394
75.00	-16.75	-15.75	0.00	-946.56	0.00	946.56	3,266.62	1,633.31	4,957.62	2,482.50	13.97	-1.95	0.387
80.00	-15.80	-15.42	0.00	-867.83	0.00	867.83	3,154.85	1,577.42	4,612.87	2,309.86	16.10	-2.12	0.381
85.00	-14.87	-15.10	0.00	-790.72	0.00	790.72	3,036.31	1,518.16	4,271.03	2,138.69	18.41	-2.29	0.375
90.00	-13.97	-14.78	0.00	-715.23	0.00	715.23	2,917.78	1,458.89	3,942.34	1,974.10	20.90	-2.46	0.367
95.00	-13.11	-14.53	0.00	-641.32	0.00	641.32	2,799.25	1,399.62	3,626.81	1,816.10	23.58	-2.64	0.358
97.75	-12.64	-14.37	0.00	-601.37	0.00	601.37	2,734.06	1,367.03	3,458.88	1,732.01	25.13	-2.75	0.352
100.00	-12.09	-14.22	0.00	-569.04	0.00	569.04	2,680.72	1,340.36	3,324.44	1,664.69	26.44	-2.83	0.346
102.25	-11.54	-14.06	0.00	-537.04	0.00	537.04	1,683.04	841.52	2,097.24	1,050.18	27.80	-2.91	0.519
105.00	-11.17	-13.84	0.00	-498.38	0.00	498.38	1,655.06	827.53	2,011.86	1,007.42	29.51	-3.02	0.502
110.00	-10.52	-13.56	0.00	-429.17	0.00	429.17	1,602.55	801.28	1,859.07	930.92	32.80	-3.27	0.468
115.00	-9.90	-13.28	0.00	-361.36	0.00	361.36	1,547.92	773.96	1,709.77	856.15	36.36	-3.52	0.429
120.00	-9.29	-13.01	0.00	-294.94	0.00	294.94	1,491.15	745.57	1,564.29	783.31	40.18	-3.76	0.383
125.00	-8.70	-12.75	0.00	-229.88	0.00	229.88	1,428.88	714.44	1,419.66	710.88	44.23	-3.98	0.330
130.00	-8.15	-12.57	0.00	-166.15	0.00	166.15	1,349.86	674.93	1,266.22	634.05	48.51	-4.18	0.268
131.00	-6.77	-11.34	0.00	-153.58	0.00	153.58	1,334.06	667.03	1,236.59	619.21	49.39	-4.22	0.253
134.00	-5.92	-9.26	0.00	-119.55	0.00	119.55	1,286.64	643.32	1,149.79	575.75	52.07	-4.32	0.212
135.00	-5.84	-9.12	0.00	-110.29	0.00	110.29	1,270.84	635.42	1,121.56	561.61	52.97	-4.35	0.201
140.00	-5.43	-8.96	0.00	-64.70	0.00	64.70	1,191.82	595.91	985.67	493.57	57.59	-4.47	0.136
141.00	-4.09	-7.75	0.00	-55.74	0.00	55.74	1,176.01	588.01	959.54	480.48	58.53	-4.49	0.120
142.00	-3.92	-5.64	0.00	-47.99	0.00	47.99	1,160.21	580.10	933.77	467.58	59.47	-4.51	0.106
145.00	-3.73	-5.41	0.00	-31.06	0.00	31.06	1,112.80	556.40	858.55	429.91	62.32	-4.55	0.076
149.00	-1.43	-3.23	0.00	-9.42	0.00	9.42	1,049.58	524.79	763.17	382.15	66.15	-4.59	0.026
150.00	-1.37	-3.10	0.00	-6.19	0.00	6.19	1,033.78	516.89	740.20	370.65	67.11	-4.59	0.018
152.00	0.00	-2.98	0.00	0.00	0.00	0.00	1,002.17	501.08	695.32	348.18	69.03	-4.60	0.000

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		69.4	0.0					0.0	0.0	69.4	0.0	0.0	0.0
5.00		137.4	1,988.1					0.0	475.3	137.4	2,463.4	0.0	0.0
10.00		134.7	1,988.0					0.0	489.7	134.7	2,477.8	0.0	0.0
15.00		131.8	1,962.7					0.0	497.1	131.8	2,459.8	0.0	0.0
20.00		128.8	1,929.0					0.0	502.2	128.8	2,431.2	0.0	0.0
25.00		125.8	1,891.1					0.0	506.1	125.8	2,397.2	0.0	0.0
30.00	Appurtenance(s)	124.2	1,850.4	1.0	0.0	115.8	13.2	0.0	509.4	125.2	2,372.9	0.0	0.0
35.00		125.0	1,807.9					0.0	511.2	125.0	2,319.1	0.0	0.0
40.00		126.6	1,763.9					0.0	513.6	126.6	2,277.5	0.0	0.0
45.00		100.8	1,718.9					0.0	515.7	100.8	2,234.6	0.0	0.0
47.92	Bot - Section 2	64.3	983.1					0.0	301.7	64.3	1,284.8	0.0	0.0
50.00		80.1	1,141.6					0.0	215.9	80.1	1,357.5	0.0	0.0
54.08	Top - Section 1	64.9	2,195.4					0.0	424.0	64.9	2,619.5	0.0	0.0
55.00		76.7	269.6					0.0	95.3	76.7	365.0	0.0	0.0
60.00		129.1	1,440.6					0.0	521.0	129.1	1,961.6	0.0	0.0
65.00		128.2	1,398.3					0.0	522.5	128.2	1,920.8	0.0	0.0
70.00		127.0	1,355.5					0.0	523.9	127.0	1,879.4	0.0	0.0
75.00		125.5	1,312.4					0.0	525.1	125.5	1,837.5	0.0	0.0
80.00		123.6	1,268.8					0.0	526.4	123.6	1,795.2	0.0	0.0
85.00		121.6	1,225.0					0.0	527.5	121.6	1,752.5	0.0	0.0
90.00		119.3	1,180.8					0.0	528.6	119.3	1,709.4	0.0	0.0
95.00		90.9	1,136.4					0.0	529.6	90.9	1,666.0	0.0	0.0
97.75	Bot - Section 3	58.1	607.7					0.0	291.7	58.1	899.4	0.0	0.0
100.00		52.1	717.6					0.0	238.9	52.1	956.5	0.0	0.0
102.25	Top - Section 2	57.2	704.1					0.0	239.1	57.2	943.2	0.0	0.0
105.00		86.9	449.7					0.0	292.5	86.9	742.1	0.0	0.0
110.00		109.8	787.8					0.0	532.5	109.8	1,320.3	0.0	0.0
115.00		106.6	753.4					0.0	533.4	106.6	1,286.8	0.0	0.0
120.00		103.2	718.8					0.0	534.2	103.2	1,253.0	0.0	0.0
125.00		99.6	684.0					0.0	535.0	99.6	1,219.0	0.0	0.0
130.00		58.5	649.1					0.0	535.8	58.5	1,184.9	0.0	0.0
131.00	Appurtenance(s)	37.8	126.8	321.0	0.0	0.0	3,940.2	0.0	107.2	358.8	4,174.3	0.0	0.0
134.00	Appurtenance(s)	37.5	370.1	477.1	0.0	-669.9	3,557.0	0.0	319.5	514.6	4,246.7	0.0	0.0
135.00		54.4	121.1					0.0	80.6	54.4	201.8	0.0	0.0
140.00		53.9	578.8					0.0	403.5	53.9	982.3	0.0	0.0
141.00	Appurtenance(s)	17.5	112.7	328.9	0.0	0.0	3,945.0	0.0	80.8	346.4	4,138.4	0.0	0.0
142.00	Appurtenance(s)	34.3	111.3	435.2	0.0	-420.1	2,172.9	0.0	80.8	469.6	2,365.0	0.0	0.0
145.00		58.6	323.5					0.0	207.2	58.6	530.7	0.0	0.0
149.00	Appurtenance(s)	41.0	410.3	469.4	0.0	0.0	4,677.2	22.0	276.6	532.4	5,364.2	0.0	0.0
150.00		23.9	99.9					5.5	69.2	29.4	169.1	0.0	0.0
152.00	Appurtenance(s)	15.8	194.9	684.4	0.0	0.0	6,927.8	11.1	138.5	711.3	7,261.3	0.0	0.0
Totals:										6,317.90	80,821.6	0.00	0.00

Site Number: 302518

Code: ANSI/TIA-222-G

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Site Name: Newtown CT 3, CT

Engineering Number: OAA745673_C3_01

2/8/2019 3:11:15 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	Pu	Vu	Tu	Mu	Mu	Resultant	phi	phi	phi	phi	Total		
Elev	FY (-)	FX (-)	MY	MZ	MX	Moment	Pn	Vn	Tn	Mn	Deflect	Rotation	Ratio
(ft)	(kips)	(kips)	(ft-kips)	(ft-kips)	(ft-kips)	(ft-kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(in)	(deg)	
0.00	-80.82	-6.27	0.00	-706.60	0.00	706.60	5,359.60	2,679.80	12,402.6	6,210.55	0.00	0.00	0.129
5.00	-78.35	-6.18	0.00	-675.25	0.00	675.25	5,275.68	2,637.84	11,915.5	5,966.65	0.02	-0.03	0.128
10.00	-75.87	-6.08	0.00	-644.37	0.00	644.37	5,189.62	2,594.81	11,433.1	5,725.08	0.07	-0.06	0.127
15.00	-73.41	-5.99	0.00	-613.95	0.00	613.95	5,101.44	2,550.72	10,955.7	5,485.99	0.15	-0.10	0.126
20.00	-70.97	-5.90	0.00	-584.00	0.00	584.00	5,011.12	2,505.56	10,483.5	5,249.58	0.27	-0.13	0.125
25.00	-68.57	-5.81	0.00	-554.51	0.00	554.51	4,918.68	2,459.34	10,017.1	5,016.02	0.43	-0.17	0.124
30.00	-66.20	-5.72	0.00	-525.35	0.00	525.35	4,824.11	2,412.05	9,556.78	4,785.49	0.62	-0.20	0.124
35.00	-63.88	-5.63	0.00	-496.75	0.00	496.75	4,727.41	2,363.70	9,102.80	4,558.17	0.85	-0.24	0.122
40.00	-61.59	-5.53	0.00	-468.62	0.00	468.62	4,628.58	2,314.29	8,655.58	4,334.22	1.12	-0.28	0.121
45.00	-59.36	-5.45	0.00	-440.97	0.00	440.97	4,527.62	2,263.81	8,215.47	4,113.84	1.43	-0.32	0.120
47.92	-58.07	-5.40	0.00	-425.07	0.00	425.07	4,467.74	2,233.87	7,962.16	3,987.00	1.63	-0.34	0.120
50.00	-56.71	-5.34	0.00	-413.82	0.00	413.82	4,424.53	2,212.27	7,782.82	3,897.19	1.78	-0.36	0.119
54.08	-54.09	-5.27	0.00	-392.03	0.00	392.03	3,619.86	1,809.93	6,334.27	3,171.85	2.10	-0.39	0.139
55.00	-53.72	-5.22	0.00	-387.19	0.00	387.19	3,605.16	1,802.58	6,271.86	3,140.59	2.18	-0.40	0.138
60.00	-51.76	-5.12	0.00	-361.09	0.00	361.09	3,523.72	1,761.86	5,934.59	2,971.70	2.62	-0.44	0.136
65.00	-49.84	-5.02	0.00	-335.49	0.00	335.49	3,440.15	1,720.07	5,602.88	2,805.61	3.11	-0.49	0.134
70.00	-47.95	-4.92	0.00	-310.40	0.00	310.40	3,354.45	1,677.22	5,277.11	2,642.48	3.65	-0.54	0.132
75.00	-46.11	-4.81	0.00	-285.82	0.00	285.82	3,266.62	1,633.31	4,957.62	2,482.50	4.24	-0.59	0.129
80.00	-44.31	-4.71	0.00	-261.76	0.00	261.76	3,154.85	1,577.42	4,612.87	2,309.86	4.89	-0.64	0.127
85.00	-42.56	-4.61	0.00	-238.21	0.00	238.21	3,036.31	1,518.16	4,271.03	2,138.69	5.59	-0.69	0.125
90.00	-40.85	-4.50	0.00	-215.17	0.00	215.17	2,917.78	1,458.89	3,942.34	1,974.10	6.34	-0.75	0.123
95.00	-39.18	-4.42	0.00	-192.65	0.00	192.65	2,799.25	1,399.62	3,626.81	1,816.10	7.15	-0.80	0.120
97.75	-38.28	-4.37	0.00	-180.50	0.00	180.50	2,734.06	1,367.03	3,458.88	1,732.01	7.62	-0.83	0.118
100.00	-37.32	-4.32	0.00	-170.68	0.00	170.68	2,680.72	1,340.36	3,324.44	1,664.69	8.02	-0.86	0.116
102.25	-36.38	-4.26	0.00	-160.96	0.00	160.96	1,683.04	841.52	2,097.24	1,050.18	8.43	-0.88	0.175
105.00	-35.63	-4.20	0.00	-149.24	0.00	149.24	1,655.06	827.53	2,011.86	1,007.42	8.95	-0.91	0.170
110.00	-34.31	-4.11	0.00	-128.24	0.00	128.24	1,602.55	801.28	1,859.07	930.92	9.95	-0.99	0.159
115.00	-33.02	-4.02	0.00	-107.68	0.00	107.68	1,547.92	773.96	1,709.77	856.15	11.02	-1.06	0.147
120.00	-31.76	-3.94	0.00	-87.56	0.00	87.56	1,491.15	745.57	1,564.29	783.31	12.17	-1.13	0.133
125.00	-30.54	-3.84	0.00	-67.88	0.00	67.88	1,428.88	714.44	1,419.66	710.88	13.40	-1.20	0.117
130.00	-29.36	-3.78	0.00	-48.66	0.00	48.66	1,349.86	674.93	1,266.22	634.05	14.69	-1.26	0.099
131.00	-25.19	-3.34	0.00	-44.89	0.00	44.89	1,334.06	667.03	1,236.59	619.21	14.95	-1.27	0.091
134.00	-20.96	-2.73	0.00	-34.88	0.00	34.88	1,286.64	643.32	1,149.79	575.75	15.76	-1.30	0.077
135.00	-20.75	-2.68	0.00	-32.15	0.00	32.15	1,270.84	635.42	1,121.56	561.61	16.03	-1.31	0.074
140.00	-19.77	-2.61	0.00	-18.73	0.00	18.73	1,191.82	595.91	985.67	493.57	17.42	-1.34	0.055
141.00	-15.64	-2.17	0.00	-16.12	0.00	16.12	1,176.01	588.01	959.54	480.48	17.70	-1.35	0.047
142.00	-13.29	-1.65	0.00	-13.95	0.00	13.95	1,160.21	580.10	933.77	467.58	17.98	-1.35	0.041
145.00	-12.76	-1.58	0.00	-9.01	0.00	9.01	1,112.80	556.40	858.55	429.91	18.84	-1.37	0.032
149.00	-7.41	-0.92	0.00	-2.69	0.00	2.69	1,049.58	524.79	763.17	382.15	19.99	-1.38	0.014
150.00	-7.24	-0.89	0.00	-1.77	0.00	1.77	1,033.78	516.89	740.20	370.65	20.28	-1.38	0.012
152.00	0.00	-0.71	0.00	0.00	0.00	0.00	1,002.17	501.08	695.32	348.18	20.86	-1.38	0.000

Load Case: 1.0D + 1.0W	Serviceability 60 mph	23 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		52.0	0.0					0.0	0.0	52.0	0.0	0.0	0.0
5.00		102.7	1,314.6					0.0	283.7	102.7	1,598.2	0.0	0.0
10.00		100.2	1,282.9					0.0	283.7	100.2	1,566.5	0.0	0.0
15.00		97.8	1,251.2					0.0	283.7	97.8	1,534.9	0.0	0.0
20.00		95.3	1,219.5					0.0	283.7	95.3	1,503.2	0.0	0.0
25.00		92.8	1,187.9					0.0	283.7	92.8	1,471.5	0.0	0.0
30.00	Appurtenance(s)	91.4	1,156.2	0.4	0.0	46.6	5.0	0.0	283.7	91.8	1,444.9	0.0	0.0
35.00		91.8	1,124.5					0.0	282.9	91.8	1,407.4	0.0	0.0
40.00		92.7	1,092.9					0.0	282.9	92.7	1,375.8	0.0	0.0
45.00		73.6	1,061.2					0.0	282.9	73.6	1,344.1	0.0	0.0
47.92	Bot - Section 2	46.9	604.4					0.0	165.0	46.9	769.4	0.0	0.0
50.00		58.4	796.4					0.0	117.9	58.4	914.2	0.0	0.0
54.08	Top - Section 1	47.3	1,531.3					0.0	231.0	47.3	1,762.3	0.0	0.0
55.00		55.7	157.8					0.0	51.9	55.7	209.7	0.0	0.0
60.00		93.6	844.6					0.0	282.9	93.6	1,127.5	0.0	0.0
65.00		92.7	817.5					0.0	282.9	92.7	1,100.4	0.0	0.0
70.00		91.5	790.3					0.0	282.9	91.5	1,073.2	0.0	0.0
75.00		90.1	763.2					0.0	282.9	90.1	1,046.1	0.0	0.0
80.00		88.5	736.0					0.0	282.9	88.5	1,018.9	0.0	0.0
85.00		86.7	708.9					0.0	282.9	86.7	991.8	0.0	0.0
90.00		84.7	681.8					0.0	282.9	84.7	964.7	0.0	0.0
95.00		64.4	654.6					0.0	282.9	64.4	937.5	0.0	0.0
97.75	Bot - Section 3	41.0	348.5					0.0	155.6	41.0	504.1	0.0	0.0
100.00		36.7	468.8					0.0	127.3	36.7	596.1	0.0	0.0
102.25	Top - Section 2	40.2	459.6					0.0	127.3	40.2	586.9	0.0	0.0
105.00		61.0	222.5					0.0	155.6	61.0	378.1	0.0	0.0
110.00		76.7	390.6					0.0	282.9	76.7	673.5	0.0	0.0
115.00		74.0	372.5					0.0	282.9	74.0	655.4	0.0	0.0
120.00		71.2	354.4					0.0	282.9	71.2	637.3	0.0	0.0
125.00		68.3	336.3					0.0	282.9	68.3	619.2	0.0	0.0
130.00		39.9	318.2					0.0	282.9	39.9	601.1	0.0	0.0
131.00	Appurtenance(s)	25.6	61.5	268.3	0.0	0.0	1,500.0	0.0	56.6	294.0	1,618.0	0.0	0.0
134.00	Appurtenance(s)	25.4	180.0	501.6	0.0	-726.1	750.9	0.0	167.7	527.0	1,098.7	0.0	0.0
135.00		36.5	58.6					0.0	34.3	36.5	92.9	0.0	0.0
140.00		36.2	282.0					0.0	171.5	36.2	453.4	0.0	0.0
141.00	Appurtenance(s)	11.7	54.2	274.0	0.0	0.0	1,500.0	0.0	34.3	285.7	1,588.5	0.0	0.0
142.00	Appurtenance(s)	22.8	53.5	521.1	0.0	-511.4	273.0	0.0	34.3	543.9	360.8	0.0	0.0
145.00		57.1	156.2					0.0	73.4	57.1	229.5	0.0	0.0
149.00	Appurtenance(s)	49.8	198.1	452.2	0.0	0.0	2,448.7	16.8	97.8	518.9	2,744.6	0.0	0.0
150.00		28.8	47.7					4.2	24.5	33.0	72.2	0.0	0.0
152.00	Appurtenance(s)	19.0	93.2	746.5	0.0	0.0	1,653.4	8.5	48.9	774.1	1,795.5	0.0	0.0
Totals:										5,406.57	40,467.9	0.00	0.00

Site Number: 302518

Code: ANSI/TIA-222-G

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Site Name: Newtown CT 3, CT

Engineering Number: OAA745673_C3_01

2/8/2019 3:11:19 PM

Customer: AT&T MOBILITY

Load Case: 1.0D + 1.0W

Serviceability 60 mph

23 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	-40.47	-5.36	0.00	-607.13	0.00	607.13	5,359.60	2,679.80	12,402.6	6,210.55	0.00	0.00	0.105
5.00	-38.87	-5.28	0.00	-580.32	0.00	580.32	5,275.68	2,637.84	11,915.5	5,966.65	0.01	-0.03	0.105
10.00	-37.30	-5.20	0.00	-553.92	0.00	553.92	5,189.62	2,594.81	11,433.1	5,725.08	0.06	-0.05	0.104
15.00	-35.76	-5.11	0.00	-527.94	0.00	527.94	5,101.44	2,550.72	10,955.7	5,485.99	0.13	-0.08	0.103
20.00	-34.25	-5.03	0.00	-502.37	0.00	502.37	5,011.12	2,505.56	10,483.5	5,249.58	0.23	-0.11	0.103
25.00	-32.78	-4.96	0.00	-477.20	0.00	477.20	4,918.68	2,459.34	10,017.1	5,016.02	0.37	-0.14	0.102
30.00	-31.33	-4.88	0.00	-452.38	0.00	452.38	4,824.11	2,412.05	9,556.78	4,785.49	0.53	-0.17	0.101
35.00	-29.92	-4.80	0.00	-428.00	0.00	428.00	4,727.41	2,363.70	9,102.80	4,558.17	0.73	-0.20	0.100
40.00	-28.54	-4.72	0.00	-404.01	0.00	404.01	4,628.58	2,314.29	8,655.58	4,334.22	0.96	-0.24	0.099
45.00	-27.20	-4.65	0.00	-380.44	0.00	380.44	4,527.62	2,263.81	8,215.47	4,113.84	1.23	-0.27	0.098
47.92	-26.43	-4.61	0.00	-366.88	0.00	366.88	4,467.74	2,233.87	7,962.16	3,987.00	1.40	-0.29	0.098
50.00	-25.51	-4.55	0.00	-357.28	0.00	357.28	4,424.53	2,212.27	7,782.82	3,897.19	1.53	-0.31	0.097
54.08	-23.75	-4.50	0.00	-338.69	0.00	338.69	3,619.86	1,809.93	6,334.27	3,171.85	1.81	-0.34	0.113
55.00	-23.54	-4.46	0.00	-334.56	0.00	334.56	3,605.16	1,802.58	6,271.86	3,140.59	1.87	-0.34	0.113
60.00	-22.41	-4.37	0.00	-312.28	0.00	312.28	3,523.72	1,761.86	5,934.59	2,971.70	2.25	-0.38	0.111
65.00	-21.31	-4.29	0.00	-290.43	0.00	290.43	3,440.15	1,720.07	5,602.88	2,805.61	2.68	-0.42	0.110
70.00	-20.23	-4.20	0.00	-268.99	0.00	268.99	3,354.45	1,677.22	5,277.11	2,642.48	3.14	-0.47	0.108
75.00	-19.18	-4.12	0.00	-247.99	0.00	247.99	3,266.62	1,633.31	4,957.62	2,482.50	3.65	-0.51	0.106
80.00	-18.16	-4.03	0.00	-227.40	0.00	227.40	3,154.85	1,577.42	4,612.87	2,309.86	4.21	-0.55	0.104
85.00	-17.17	-3.95	0.00	-207.23	0.00	207.23	3,036.31	1,518.16	4,271.03	2,138.69	4.82	-0.60	0.103
90.00	-16.20	-3.87	0.00	-187.48	0.00	187.48	2,917.78	1,458.89	3,942.34	1,974.10	5.47	-0.65	0.101
95.00	-15.26	-3.80	0.00	-168.14	0.00	168.14	2,799.25	1,399.62	3,626.81	1,816.10	6.17	-0.69	0.098
97.75	-14.75	-3.76	0.00	-157.68	0.00	157.68	2,734.06	1,367.03	3,458.88	1,732.01	6.58	-0.72	0.096
100.00	-14.16	-3.72	0.00	-149.22	0.00	149.22	2,680.72	1,340.36	3,324.44	1,664.69	6.92	-0.74	0.095
102.25	-13.57	-3.68	0.00	-140.84	0.00	140.84	1,683.04	841.52	2,097.24	1,050.18	7.27	-0.76	0.142
105.00	-13.19	-3.63	0.00	-130.72	0.00	130.72	1,655.06	827.53	2,011.86	1,007.42	7.72	-0.79	0.138
110.00	-12.51	-3.55	0.00	-112.59	0.00	112.59	1,602.55	801.28	1,859.07	930.92	8.58	-0.86	0.129
115.00	-11.86	-3.48	0.00	-94.82	0.00	94.82	1,547.92	773.96	1,709.77	856.15	9.52	-0.92	0.118
120.00	-11.22	-3.41	0.00	-77.40	0.00	77.40	1,491.15	745.57	1,564.29	783.31	10.52	-0.98	0.106
125.00	-10.59	-3.34	0.00	-60.34	0.00	60.34	1,428.88	714.44	1,419.66	710.88	11.58	-1.04	0.092
130.00	-9.99	-3.30	0.00	-43.62	0.00	43.62	1,349.86	674.93	1,266.22	634.05	12.70	-1.09	0.076
131.00	-8.38	-2.98	0.00	-40.32	0.00	40.32	1,334.06	667.03	1,236.59	619.21	12.93	-1.10	0.071
134.00	-7.29	-2.43	0.00	-31.39	0.00	31.39	1,286.64	643.32	1,149.79	575.75	13.63	-1.13	0.060
135.00	-7.20	-2.39	0.00	-28.96	0.00	28.96	1,270.84	635.42	1,121.56	561.61	13.87	-1.14	0.057
140.00	-6.74	-2.35	0.00	-16.99	0.00	16.99	1,191.82	595.91	985.67	493.57	15.08	-1.17	0.040
141.00	-5.16	-2.03	0.00	-14.64	0.00	14.64	1,176.01	588.01	959.54	480.48	15.33	-1.18	0.035
142.00	-4.81	-1.48	0.00	-12.61	0.00	12.61	1,160.21	580.10	933.77	467.58	15.58	-1.18	0.031
145.00	-4.58	-1.42	0.00	-8.16	0.00	8.16	1,112.80	556.40	858.55	429.91	16.32	-1.19	0.023
149.00	-1.85	-0.85	0.00	-2.47	0.00	2.47	1,049.58	524.79	763.17	382.15	17.33	-1.20	0.008
150.00	-1.78	-0.81	0.00	-1.62	0.00	1.62	1,033.78	516.89	740.20	370.65	17.58	-1.20	0.006
152.00	0.00	-0.77	0.00	0.00	0.00	0.00	1,002.17	501.08	695.32	348.18	18.09	-1.20	0.000

Site Number: 302518

Code: ANSI/TIA-222-G

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Site Name: Newtown CT 3, CT

Engineering Number: OAA745673_C3_01

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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_s):	0.21
Spectral Response Acceleration at 1.0 Second Period (S_1):	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}):	0.22
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):	1.00
Seismic Force Distribution Exponent (k):	1.90
Total Unfactored Dead Load:	40.47 k
Seismic Base Shear (E):	1.32 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)
40	151.00	142	1,921	0.009	12	177
39	149.50	72	957	0.005	6	90
38	147.00	296	3,800	0.019	25	368
37	143.50	230	2,816	0.014	18	286
36	141.50	88	1,049	0.005	7	109
35	140.50	89	1,043	0.005	7	110
34	137.50	453	5,131	0.025	33	564
33	134.50	93	1,008	0.005	7	116
32	132.50	348	3,669	0.018	24	433
31	130.50	118	1,210	0.006	8	147
30	127.50	601	5,894	0.029	38	748
29	122.50	619	5,628	0.028	36	771
28	117.50	637	5,353	0.026	35	793
27	112.50	655	5,069	0.025	33	816
26	107.50	673	4,779	0.023	31	838
25	103.63	378	2,503	0.012	16	471
24	101.13	587	3,709	0.018	24	731
23	98.88	596	3,610	0.018	23	742
22	96.38	504	2,908	0.014	19	627
21	92.50	938	5,004	0.025	32	1,167
20	87.50	965	4,634	0.023	30	1,201
19	82.50	992	4,261	0.021	28	1,235
18	77.50	1,019	3,889	0.019	25	1,268

Site Number: 302518

Code: ANSI/TIA-222-G

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Site Name: Newtown CT 3, CT

Engineering Number: OAA745673_C3_01

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Customer: AT&T MOBILITY

17	72.50	1,046	3,518	0.017	23	1,302
16	67.50	1,073	3,152	0.015	20	1,336
15	62.50	1,100	2,793	0.014	18	1,370
14	57.50	1,128	2,443	0.012	16	1,404
13	54.54	210	411	0.002	3	261
12	52.04	1,762	3,161	0.016	20	2,194
11	48.96	914	1,461	0.007	9	1,138
10	46.46	769	1,113	0.005	7	958
9	42.50	1,344	1,642	0.008	11	1,673
8	37.50	1,376	1,326	0.007	9	1,713
7	32.50	1,407	1,034	0.005	7	1,752
6	27.50	1,440	771	0.004	5	1,792
5	22.50	1,472	538	0.003	3	1,832
4	17.50	1,503	342	0.002	2	1,871
3	12.50	1,535	184	0.001	1	1,911
2	7.50	1,567	71	0.000	0	1,950
1	2.50	1,598	9	0.000	0	1,989
Powerwave Allgon LGP	152.00	33	452	0.002	3	41
Powerwave Allgon 702	152.00	26	361	0.002	2	33
CCI DTMAPB7819VG12A	152.00	58	788	0.004	5	72
Powerwave Allgon LGP	152.00	85	1,158	0.006	8	105
Raycap DC6-48-60-18-	152.00	20	274	0.001	2	25
Ericsson RRUS 4415 B	152.00	138	1,888	0.009	12	172
Ericsson RRUS 4449 B	152.00	213	2,915	0.014	19	265
Ericsson RRUS 4478 B	152.00	178	2,439	0.012	16	222
Raycap DC6-48-60-18-	152.00	16	219	0.001	1	20
Ericsson RRUS-12 190	152.00	180	2,463	0.012	16	224
Raycap DC6-48-60-18-	152.00	16	219	0.001	1	20
Powerwave Allgon 777	152.00	105	1,437	0.007	9	131
Kathrein Scala 80010	152.00	586	8,013	0.039	52	729
Flat Platform w/ Han	149.00	2,449	32,266	0.159	209	3,048
RFS FD9R6004/1C-3L	142.00	19	224	0.001	1	23
Rymasa MGD3-800T0	142.00	59	714	0.004	5	74
Andrew DB846H80E-SX	142.00	96	1,155	0.006	7	120
Powerwave Allgon P65	142.00	99	1,191	0.006	8	123
Flat Low Profile Pla	141.00	1,500	17,802	0.088	115	1,867
Kathrein Scala 860-1	134.00	7	71	0.000	0	8
KMW AWS Twin Dual 70	134.00	52	562	0.003	4	65
Ericsson RRUS 11 B12	134.00	152	1,639	0.008	11	189
Kathrein Scala 800 1	134.00	53	569	0.003	4	66
Kathrein Scala 742 3	134.00	89	963	0.005	6	111
Ericsson AIR 21, 1.3	134.00	249	2,683	0.013	17	310
Commscope SBNH-1D65C	134.00	149	1,603	0.008	10	185
Flat Low Profile Pla	131.00	1,500	15,484	0.076	100	1,867
Generic 2" x 4" GPS	30.00	5	3	0.000	0	6
		40,468	203,370	1.000	1,319	50,375

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

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)
40	151.00	142	1,921	0.009	12	122
39	149.50	72	957	0.005	6	62
38	147.00	296	3,800	0.019	25	253
37	143.50	230	2,816	0.014	18	196
36	141.50	88	1,049	0.005	7	75
35	140.50	89	1,043	0.005	7	76
34	137.50	453	5,131	0.025	33	388
33	134.50	93	1,008	0.005	7	79
32	132.50	348	3,669	0.018	24	297

Site Number: 302518

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Site Name: Newtown CT 3, CT

Engineering Number:OAA745673_C3_01

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Customer: AT&T MOBILITY

31	130.50	118	1,210	0.006	8	101
30	127.50	601	5,894	0.029	38	514
29	122.50	619	5,628	0.028	36	530
28	117.50	637	5,353	0.026	35	545
27	112.50	655	5,069	0.025	33	560
26	107.50	673	4,779	0.023	31	576
25	103.63	378	2,503	0.012	16	323
24	101.13	587	3,709	0.018	24	502
23	98.88	596	3,610	0.018	23	510
22	96.38	504	2,908	0.014	19	431
21	92.50	938	5,004	0.025	32	802
20	87.50	965	4,634	0.023	30	825
19	82.50	992	4,261	0.021	28	848
18	77.50	1,019	3,889	0.019	25	871
17	72.50	1,046	3,518	0.017	23	895
16	67.50	1,073	3,152	0.015	20	918
15	62.50	1,100	2,793	0.014	18	941
14	57.50	1,128	2,443	0.012	16	964
13	54.54	210	411	0.002	3	179
12	52.04	1,762	3,161	0.016	20	1,507
11	48.96	914	1,461	0.007	9	782
10	46.46	769	1,113	0.005	7	658
9	42.50	1,344	1,642	0.008	11	1,149
8	37.50	1,376	1,326	0.007	9	1,177
7	32.50	1,407	1,034	0.005	7	1,204
6	27.50	1,440	771	0.004	5	1,231
5	22.50	1,472	538	0.003	3	1,258
4	17.50	1,503	342	0.002	2	1,286
3	12.50	1,535	184	0.001	1	1,313
2	7.50	1,567	71	0.000	0	1,340
1	2.50	1,598	9	0.000	0	1,367
Powerwave Allgon LGP	152.00	33	452	0.002	3	28
Powerwave Allgon 702	152.00	26	361	0.002	2	23
CCI DTMAPB7819VG12A	152.00	58	788	0.004	5	49
Powerwave Allgon LGP	152.00	85	1,158	0.006	8	72
Raycap DC6-48-60-18-	152.00	20	274	0.001	2	17
Ericsson RRUS 4415 B	152.00	138	1,888	0.009	12	118
Ericsson RRUS 4449 B	152.00	213	2,915	0.014	19	182
Ericsson RRUS 4478 B	152.00	178	2,439	0.012	16	152
Raycap DC6-48-60-18-	152.00	16	219	0.001	1	14
Ericsson RRUS-12 190	152.00	180	2,463	0.012	16	154
Raycap DC6-48-60-18-	152.00	16	219	0.001	1	14
Powerwave Allgon 777	152.00	105	1,437	0.007	9	90
Kathrein Scala 80010	152.00	586	8,013	0.039	52	501
Flat Platform w/ Han	149.00	2,449	32,266	0.159	209	2,094
RFS FD9R6004/1C-3L	142.00	19	224	0.001	1	16
Ryma MGD3-800T0	142.00	59	714	0.004	5	51
Andrew DB846H80E-SX	142.00	96	1,155	0.006	7	82
Powerwave Allgon P65	142.00	99	1,191	0.006	8	85
Flat Low Profile Pla	141.00	1,500	17,802	0.088	115	1,283
Kathrein Scala 860-1	134.00	7	71	0.000	0	6
KMW AWS Twin Dual 70	134.00	52	562	0.003	4	45
Ericsson RRUS 11 B12	134.00	152	1,639	0.008	11	130
Kathrein Scala 800 1	134.00	53	569	0.003	4	45
Kathrein Scala 742 3	134.00	89	963	0.005	6	76
Ericsson AIR 21, 1.3	134.00	249	2,683	0.013	17	213
Commscope SBNH-1D65C	134.00	149	1,603	0.008	10	127
Flat Low Profile Pla	131.00	1,500	15,484	0.076	100	1,283
Generic 2" x 4" GPS	30.00	5	3	0.000	0	4
		40,468	203,370	1.000	1,319	34,608

Site Number: 302518

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Site Name: Newtown CT 3, CT

Engineering Number: OAA745673_C3_01

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Customer: AT&T MOBILITY

Load Case (1.2 + 0.2Sds) * DL + E ELFM 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	-48.38	-1.32	0.00	-165.77	0.00	165.77	5,359.60	2,679.80	12,402.6	6,210.55	0.00	0.00	0.036
5.00	-46.43	-1.33	0.00	-159.17	0.00	159.17	5,275.68	2,637.84	11,915.5	5,966.65	0.00	-0.01	0.035
10.00	-44.52	-1.33	0.00	-152.54	0.00	152.54	5,189.62	2,594.81	11,433.1	5,725.08	0.02	-0.01	0.035
15.00	-42.65	-1.33	0.00	-145.88	0.00	145.88	5,101.44	2,550.72	10,955.7	5,485.99	0.04	-0.02	0.035
20.00	-40.82	-1.34	0.00	-139.21	0.00	139.21	5,011.12	2,505.56	10,483.5	5,249.58	0.06	-0.03	0.035
25.00	-39.03	-1.34	0.00	-132.54	0.00	132.54	4,918.68	2,459.34	10,017.1	5,016.02	0.10	-0.04	0.034
30.00	-37.27	-1.33	0.00	-125.86	0.00	125.86	4,824.11	2,412.05	9,556.78	4,785.49	0.15	-0.05	0.034
35.00	-35.56	-1.33	0.00	-119.20	0.00	119.20	4,727.41	2,363.70	9,102.80	4,558.17	0.20	-0.06	0.034
40.00	-33.88	-1.32	0.00	-112.56	0.00	112.56	4,628.58	2,314.29	8,655.58	4,334.22	0.27	-0.07	0.033
45.00	-32.93	-1.32	0.00	-105.95	0.00	105.95	4,527.62	2,263.81	8,215.47	4,113.84	0.34	-0.08	0.033
47.92	-31.79	-1.31	0.00	-102.11	0.00	102.11	4,467.74	2,233.87	7,962.16	3,987.00	0.39	-0.08	0.033
50.00	-29.59	-1.29	0.00	-99.38	0.00	99.38	4,424.53	2,212.27	7,782.82	3,897.19	0.42	-0.08	0.032
54.08	-29.33	-1.29	0.00	-94.12	0.00	94.12	3,619.86	1,809.93	6,334.27	3,171.85	0.50	-0.09	0.038
55.00	-27.93	-1.27	0.00	-92.94	0.00	92.94	3,605.16	1,802.58	6,271.86	3,140.59	0.52	-0.09	0.037
60.00	-26.56	-1.26	0.00	-86.58	0.00	86.58	3,523.72	1,761.86	5,934.59	2,971.70	0.62	-0.11	0.037
65.00	-25.22	-1.24	0.00	-80.29	0.00	80.29	3,440.15	1,720.07	5,602.88	2,805.61	0.74	-0.12	0.036
70.00	-23.92	-1.22	0.00	-74.09	0.00	74.09	3,354.45	1,677.22	5,277.11	2,642.48	0.87	-0.13	0.035
75.00	-22.65	-1.20	0.00	-68.00	0.00	68.00	3,266.62	1,633.31	4,957.62	2,482.50	1.01	-0.14	0.034
80.00	-21.42	-1.17	0.00	-62.02	0.00	62.02	3,154.85	1,577.42	4,612.87	2,309.86	1.17	-0.15	0.034
85.00	-20.22	-1.14	0.00	-56.17	0.00	56.17	3,036.31	1,518.16	4,271.03	2,138.69	1.33	-0.17	0.033
90.00	-19.05	-1.11	0.00	-50.47	0.00	50.47	2,917.78	1,458.89	3,942.34	1,974.10	1.51	-0.18	0.032
95.00	-18.42	-1.09	0.00	-44.93	0.00	44.93	2,799.25	1,399.62	3,626.81	1,816.10	1.71	-0.19	0.031
97.75	-17.68	-1.07	0.00	-41.93	0.00	41.93	2,734.06	1,367.03	3,458.88	1,732.01	1.82	-0.20	0.031
100.00	-16.95	-1.04	0.00	-39.53	0.00	39.53	2,680.72	1,340.36	3,324.44	1,664.69	1.91	-0.20	0.030
102.25	-16.48	-1.03	0.00	-37.19	0.00	37.19	1,683.04	841.52	2,097.24	1,050.18	2.01	-0.21	0.045
105.00	-15.64	-1.00	0.00	-34.37	0.00	34.37	1,655.06	827.53	2,011.86	1,007.42	2.13	-0.22	0.044
110.00	-14.82	-0.96	0.00	-29.39	0.00	29.39	1,602.55	801.28	1,859.07	930.92	2.37	-0.23	0.041
115.00	-14.03	-0.93	0.00	-24.57	0.00	24.57	1,547.92	773.96	1,709.77	856.15	2.62	-0.25	0.038
120.00	-13.26	-0.89	0.00	-19.92	0.00	19.92	1,491.15	745.57	1,564.29	783.31	2.89	-0.27	0.034
125.00	-12.51	-0.85	0.00	-15.45	0.00	15.45	1,428.88	714.44	1,419.66	710.88	3.18	-0.28	0.030
130.00	-12.36	-0.85	0.00	-11.18	0.00	11.18	1,349.86	674.93	1,266.22	634.05	3.49	-0.30	0.027
131.00	-10.06	-0.71	0.00	-10.33	0.00	10.33	1,334.06	667.03	1,236.59	619.21	3.55	-0.30	0.024
134.00	-9.01	-0.65	0.00	-8.20	0.00	8.20	1,286.64	643.32	1,149.79	575.75	3.74	-0.30	0.021
135.00	-8.45	-0.61	0.00	-7.55	0.00	7.55	1,270.84	635.42	1,121.56	561.61	3.80	-0.31	0.020
140.00	-8.34	-0.61	0.00	-4.48	0.00	4.48	1,191.82	595.91	985.67	493.57	4.13	-0.32	0.016
141.00	-6.36	-0.47	0.00	-3.87	0.00	3.87	1,176.01	588.01	959.54	480.48	4.19	-0.32	0.013
142.00	-5.74	-0.43	0.00	-3.40	0.00	3.40	1,160.21	580.10	933.77	467.58	4.26	-0.32	0.012
145.00	-5.37	-0.40	0.00	-2.11	0.00	2.11	1,112.80	556.40	858.55	429.91	4.46	-0.32	0.010
149.00	-2.23	-0.17	0.00	-0.49	0.00	0.49	1,049.58	524.79	763.17	382.15	4.73	-0.32	0.003
150.00	-2.06	-0.16	0.00	-0.32	0.00	0.32	1,033.78	516.89	740.20	370.65	4.80	-0.32	0.003
152.00	0.00	-0.15	0.00	0.00	0.00	0.00	1,002.17	501.08	695.32	348.18	4.93	-0.32	0.000

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	-33.24	-1.32	0.00	-163.56	0.00	163.56	5,359.60	2,679.80	12,402.6	6,210.55	0.00	0.00	0.033
5.00	-31.90	-1.32	0.00	-156.96	0.00	156.96	5,275.68	2,637.84	11,915.5	5,966.65	0.00	-0.01	0.032
10.00	-30.59	-1.33	0.00	-150.35	0.00	150.35	5,189.62	2,594.81	11,433.1	5,725.08	0.02	-0.01	0.032
15.00	-29.30	-1.33	0.00	-143.72	0.00	143.72	5,101.44	2,550.72	10,955.7	5,485.99	0.04	-0.02	0.032
20.00	-28.04	-1.33	0.00	-137.08	0.00	137.08	5,011.12	2,505.56	10,483.5	5,249.58	0.06	-0.03	0.032
25.00	-26.81	-1.33	0.00	-130.44	0.00	130.44	4,918.68	2,459.34	10,017.1	5,016.02	0.10	-0.04	0.031
30.00	-25.60	-1.32	0.00	-123.81	0.00	123.81	4,824.11	2,412.05	9,556.78	4,785.49	0.14	-0.05	0.031
35.00	-24.43	-1.32	0.00	-117.20	0.00	117.20	4,727.41	2,363.70	9,102.80	4,558.17	0.20	-0.06	0.031
40.00	-23.28	-1.31	0.00	-110.63	0.00	110.63	4,628.58	2,314.29	8,655.58	4,334.22	0.26	-0.06	0.031
45.00	-22.62	-1.30	0.00	-104.09	0.00	104.09	4,527.62	2,263.81	8,215.47	4,113.84	0.33	-0.07	0.030
47.92	-21.84	-1.29	0.00	-100.29	0.00	100.29	4,467.74	2,233.87	7,962.16	3,987.00	0.38	-0.08	0.030
50.00	-20.33	-1.27	0.00	-97.59	0.00	97.59	4,424.53	2,212.27	7,782.82	3,897.19	0.42	-0.08	0.030
54.08	-20.15	-1.27	0.00	-92.39	0.00	92.39	3,619.86	1,809.93	6,334.27	3,171.85	0.49	-0.09	0.035
55.00	-19.19	-1.26	0.00	-91.23	0.00	91.23	3,605.16	1,802.58	6,271.86	3,140.59	0.51	-0.09	0.034
60.00	-18.25	-1.24	0.00	-84.94	0.00	84.94	3,523.72	1,761.86	5,934.59	2,971.70	0.61	-0.10	0.034
65.00	-17.33	-1.22	0.00	-78.74	0.00	78.74	3,440.15	1,720.07	5,602.88	2,805.61	0.73	-0.12	0.033
70.00	-16.43	-1.20	0.00	-72.63	0.00	72.63	3,354.45	1,677.22	5,277.11	2,642.48	0.86	-0.13	0.032
75.00	-15.56	-1.18	0.00	-66.62	0.00	66.62	3,266.62	1,633.31	4,957.62	2,482.50	1.00	-0.14	0.032
80.00	-14.71	-1.15	0.00	-60.74	0.00	60.74	3,154.85	1,577.42	4,612.87	2,309.86	1.15	-0.15	0.031
85.00	-13.89	-1.12	0.00	-54.99	0.00	54.99	3,036.31	1,518.16	4,271.03	2,138.69	1.31	-0.16	0.030
90.00	-13.09	-1.09	0.00	-49.39	0.00	49.39	2,917.78	1,458.89	3,942.34	1,974.10	1.49	-0.17	0.030
95.00	-12.65	-1.07	0.00	-43.95	0.00	43.95	2,799.25	1,399.62	3,626.81	1,816.10	1.68	-0.19	0.029
97.75	-12.15	-1.05	0.00	-41.00	0.00	41.00	2,734.06	1,367.03	3,458.88	1,732.01	1.79	-0.19	0.028
100.00	-11.64	-1.02	0.00	-38.65	0.00	38.65	2,680.72	1,340.36	3,324.44	1,664.69	1.88	-0.20	0.028
102.25	-11.32	-1.01	0.00	-36.35	0.00	36.35	1,683.04	841.52	2,097.24	1,050.18	1.98	-0.21	0.041
105.00	-10.74	-0.98	0.00	-33.58	0.00	33.58	1,655.06	827.53	2,011.86	1,007.42	2.10	-0.21	0.040
110.00	-10.18	-0.94	0.00	-28.70	0.00	28.70	1,602.55	801.28	1,859.07	930.92	2.33	-0.23	0.037
115.00	-9.64	-0.91	0.00	-23.99	0.00	23.99	1,547.92	773.96	1,709.77	856.15	2.58	-0.25	0.034
120.00	-9.11	-0.87	0.00	-19.44	0.00	19.44	1,491.15	745.57	1,564.29	783.31	2.84	-0.26	0.031
125.00	-8.59	-0.83	0.00	-15.08	0.00	15.08	1,428.88	714.44	1,419.66	710.88	3.13	-0.28	0.027
130.00	-8.49	-0.83	0.00	-10.91	0.00	10.91	1,349.86	674.93	1,266.22	634.05	3.42	-0.29	0.023
131.00	-6.91	-0.70	0.00	-10.08	0.00	10.08	1,334.06	667.03	1,236.59	619.21	3.48	-0.29	0.021
134.00	-6.19	-0.63	0.00	-8.00	0.00	8.00	1,286.64	643.32	1,149.79	575.75	3.67	-0.30	0.019
135.00	-5.80	-0.60	0.00	-7.36	0.00	7.36	1,270.84	635.42	1,121.56	561.61	3.73	-0.30	0.018
140.00	-5.73	-0.59	0.00	-4.37	0.00	4.37	1,191.82	595.91	985.67	493.57	4.05	-0.31	0.014
141.00	-4.37	-0.46	0.00	-3.78	0.00	3.78	1,176.01	588.01	959.54	480.48	4.12	-0.31	0.012
142.00	-3.94	-0.42	0.00	-3.32	0.00	3.32	1,160.21	580.10	933.77	467.58	4.18	-0.31	0.010
145.00	-3.69	-0.39	0.00	-2.06	0.00	2.06	1,112.80	556.40	858.55	429.91	4.38	-0.31	0.008
149.00	-1.53	-0.17	0.00	-0.48	0.00	0.48	1,049.58	524.79	763.17	382.15	4.64	-0.32	0.003
150.00	-1.41	-0.15	0.00	-0.31	0.00	0.31	1,033.78	516.89	740.20	370.65	4.71	-0.32	0.002
152.00	0.00	-0.15	0.00	0.00	0.00	0.00	1,002.17	501.08	695.32	348.18	4.84	-0.32	0.000

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_s):	0.21
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.07
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}):	0.22
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.11
Period Based on Rayleigh Method (sec):	2.29
Redundancy Factor (ρ):	1.00

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)
40	151.00	142	1.865	1.852	1.094	0.407	39	177
39	149.50	72	1.828	1.670	1.027	0.380	18	90
38	147.00	296	1.768	1.396	0.923	0.337	66	368
37	143.50	230	1.685	1.064	0.791	0.280	43	286
36	141.50	88	1.638	0.901	0.723	0.250	15	109
35	140.50	89	1.615	0.825	0.690	0.235	14	110
34	137.50	453	1.547	0.623	0.600	0.194	59	564
33	134.50	93	1.480	0.453	0.519	0.156	10	116
32	132.50	348	1.436	0.356	0.470	0.132	31	433
31	130.50	118	1.393	0.271	0.425	0.110	9	147
30	127.50	601	1.330	0.164	0.363	0.079	32	748
29	122.50	619	1.228	0.032	0.276	0.036	15	771
28	117.50	637	1.129	-0.052	0.205	0.001	0	793
27	112.50	655	1.035	-0.099	0.150	-0.025	-11	816
26	107.50	673	0.945	-0.119	0.106	-0.043	-19	838
25	103.63	378	0.878	-0.121	0.079	-0.050	-13	471
24	101.13	587	0.837	-0.118	0.065	-0.052	-20	731
23	98.88	596	0.800	-0.112	0.054	-0.052	-21	742
22	96.38	504	0.760	-0.103	0.043	-0.050	-17	627
21	92.50	938	0.700	-0.087	0.030	-0.043	-27	1,167
20	87.50	965	0.626	-0.062	0.018	-0.029	-18	1,201
19	82.50	992	0.557	-0.037	0.010	-0.010	-6	1,235
18	77.50	1,019	0.491	-0.013	0.007	0.010	7	1,268
17	72.50	1,046	0.430	0.008	0.006	0.028	19	1,302
16	67.50	1,073	0.373	0.026	0.008	0.042	30	1,336
15	62.50	1,100	0.320	0.041	0.011	0.052	38	1,370
14	57.50	1,128	0.270	0.052	0.015	0.058	43	1,404
13	54.54	210	0.243	0.056	0.018	0.060	8	261
12	52.04	1,762	0.222	0.060	0.020	0.060	71	2,194
11	48.96	914	0.196	0.063	0.024	0.061	37	1,138
10	46.46	769	0.177	0.065	0.026	0.061	31	958
9	42.50	1,344	0.148	0.068	0.030	0.060	54	1,673
8	37.50	1,376	0.115	0.070	0.035	0.059	54	1,713
7	32.50	1,407	0.086	0.071	0.039	0.058	54	1,752

6	27.50	1,440	0.062	0.072	0.041	0.056	54	1,792
5	22.50	1,472	0.041	0.070	0.042	0.054	53	1,832
4	17.50	1,503	0.025	0.066	0.039	0.051	51	1,871
3	12.50	1,535	0.013	0.058	0.034	0.046	47	1,911
2	7.50	1,567	0.005	0.043	0.024	0.036	38	1,950
1	2.50	1,598	0.001	0.018	0.010	0.017	18	1,989
Powerwave Allgon LGP	152.00	33	1.890	1.980	1.140	0.425	9	41
Powerwave Allgon 702	152.00	26	1.890	1.980	1.140	0.425	7	33
CCI DTMAP7819VG12A	152.00	58	1.890	1.980	1.140	0.425	16	72
Powerwave Allgon LGP	152.00	85	1.890	1.980	1.140	0.425	24	105
Raycap DC6-48-60-18-	152.00	20	1.890	1.980	1.140	0.425	6	25
Ericsson RRUS 4415 B	152.00	138	1.890	1.980	1.140	0.425	39	172
Ericsson RRUS 4449 B	152.00	213	1.890	1.980	1.140	0.425	60	265
Ericsson RRUS 4478 B	152.00	178	1.890	1.980	1.140	0.425	51	222
Raycap DC6-48-60-18-	152.00	16	1.890	1.980	1.140	0.425	5	20
Ericsson RRUS-12 190	152.00	180	1.890	1.980	1.140	0.425	51	224
Raycap DC6-48-60-18-	152.00	16	1.890	1.980	1.140	0.425	5	20
Powerwave Allgon 777	152.00	105	1.890	1.980	1.140	0.425	30	131
Kathrein Scala 80010	152.00	586	1.890	1.980	1.140	0.425	166	729
Flat Platform w/ Han	149.00	2,449	1.816	1.613	1.005	0.371	606	3,048
RFS FD9R6004/1C-3L	142.00	19	1.649	0.940	0.739	0.257	3	23
Ryma MGD3-800T0	142.00	59	1.649	0.940	0.739	0.257	10	74
Andrew DB846H80E-SX	142.00	96	1.649	0.940	0.739	0.257	16	120
Powerwave Allgon P65	142.00	99	1.649	0.940	0.739	0.257	17	123
Flat Low Profile Pla	141.00	1,500	1.626	0.862	0.706	0.242	242	1,867
Kathrein Scala 860-1	134.00	7	1.469	0.427	0.507	0.150	1	8
KMW AWS Twin Dual 70	134.00	52	1.469	0.427	0.507	0.150	5	65
Ericsson RRUS 11 B12	134.00	152	1.469	0.427	0.507	0.150	15	189
Kathrein Scala 800 1	134.00	53	1.469	0.427	0.507	0.150	5	66
Kathrein Scala 742 3	134.00	89	1.469	0.427	0.507	0.150	9	111
Ericsson AIR 21, 1.3	134.00	249	1.469	0.427	0.507	0.150	25	310
Commscope SBNH-	134.00	149	1.469	0.427	0.507	0.150	15	185
Flat Low Profile Pla	131.00	1,500	1.404	0.291	0.436	0.115	115	1,867
Generic 2" x 4" GPS	30.00	5	0.074	0.072	0.040	0.057	0	6
		40,468	76.666	44.921	32.600	11.505	2,460	50,375

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)
40	151.00	142	1.865	1.852	1.094	0.407	39	122
39	149.50	72	1.828	1.670	1.027	0.380	18	62
38	147.00	296	1.768	1.396	0.923	0.337	66	253
37	143.50	230	1.685	1.064	0.791	0.280	43	196
36	141.50	88	1.638	0.901	0.723	0.250	15	75
35	140.50	89	1.615	0.825	0.690	0.235	14	76
34	137.50	453	1.547	0.623	0.600	0.194	59	388
33	134.50	93	1.480	0.453	0.519	0.156	10	79
32	132.50	348	1.436	0.356	0.470	0.132	31	297
31	130.50	118	1.393	0.271	0.425	0.110	9	101
30	127.50	601	1.330	0.164	0.363	0.079	32	514
29	122.50	619	1.228	0.032	0.276	0.036	15	530
28	117.50	637	1.129	-0.052	0.205	0.001	0	545
27	112.50	655	1.035	-0.099	0.150	-0.025	-11	560
26	107.50	673	0.945	-0.119	0.106	-0.043	-19	576
25	103.63	378	0.878	-0.121	0.079	-0.050	-13	323
24	101.13	587	0.837	-0.118	0.065	-0.052	-20	502
23	98.88	596	0.800	-0.112	0.054	-0.052	-21	510
22	96.38	504	0.760	-0.103	0.043	-0.050	-17	431

Site Number: 302518

Code: ANSI/TIA-222-G

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Site Name: Newtown CT 3, CT

Engineering Number: OAA745673_C3_01

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Customer: AT&T MOBILITY

21	92.50	938	0.700	-0.087	0.030	-0.043	-27	802
20	87.50	965	0.626	-0.062	0.018	-0.029	-18	825
19	82.50	992	0.557	-0.037	0.010	-0.010	-6	848
18	77.50	1,019	0.491	-0.013	0.007	0.010	7	871
17	72.50	1,046	0.430	0.008	0.006	0.028	19	895
16	67.50	1,073	0.373	0.026	0.008	0.042	30	918
15	62.50	1,100	0.320	0.041	0.011	0.052	38	941
14	57.50	1,128	0.270	0.052	0.015	0.058	43	964
13	54.54	210	0.243	0.056	0.018	0.060	8	179
12	52.04	1,762	0.222	0.060	0.020	0.060	71	1,507
11	48.96	914	0.196	0.063	0.024	0.061	37	782
10	46.46	769	0.177	0.065	0.026	0.061	31	658
9	42.50	1,344	0.148	0.068	0.030	0.060	54	1,149
8	37.50	1,376	0.115	0.070	0.035	0.059	54	1,177
7	32.50	1,407	0.086	0.071	0.039	0.058	54	1,204
6	27.50	1,440	0.062	0.072	0.041	0.056	54	1,231
5	22.50	1,472	0.041	0.070	0.042	0.054	53	1,258
4	17.50	1,503	0.025	0.066	0.039	0.051	51	1,286
3	12.50	1,535	0.013	0.058	0.034	0.046	47	1,313
2	7.50	1,567	0.005	0.043	0.024	0.036	38	1,340
1	2.50	1,598	0.001	0.018	0.010	0.017	18	1,367
Powerwave Allgon LGP	152.00	33	1.890	1.980	1.140	0.425	9	28
Powerwave Allgon 702	152.00	26	1.890	1.980	1.140	0.425	7	23
CCI DTMAPB7819VG12A	152.00	58	1.890	1.980	1.140	0.425	16	49
Powerwave Allgon LGP	152.00	85	1.890	1.980	1.140	0.425	24	72
Raycap DC6-48-60-18-	152.00	20	1.890	1.980	1.140	0.425	6	17
Ericsson RRUS 4415 B	152.00	138	1.890	1.980	1.140	0.425	39	118
Ericsson RRUS 4449 B	152.00	213	1.890	1.980	1.140	0.425	60	182
Ericsson RRUS 4478 B	152.00	178	1.890	1.980	1.140	0.425	51	152
Raycap DC6-48-60-18-	152.00	16	1.890	1.980	1.140	0.425	5	14
Ericsson RRUS-12 190	152.00	180	1.890	1.980	1.140	0.425	51	154
Raycap DC6-48-60-18-	152.00	16	1.890	1.980	1.140	0.425	5	14
Powerwave Allgon 777	152.00	105	1.890	1.980	1.140	0.425	30	90
Kathrein Scala 80010	152.00	586	1.890	1.980	1.140	0.425	166	501
Flat Platform w/ Han	149.00	2,449	1.816	1.613	1.005	0.371	606	2,094
RFS FD9R6004/1C-3L	142.00	19	1.649	0.940	0.739	0.257	3	16
Ryma MGD3-800T0	142.00	59	1.649	0.940	0.739	0.257	10	51
Andrew DB846H80E-SX	142.00	96	1.649	0.940	0.739	0.257	16	82
Powerwave Allgon P65	142.00	99	1.649	0.940	0.739	0.257	17	85
Flat Low Profile Pla	141.00	1,500	1.626	0.862	0.706	0.242	242	1,283
Kathrein Scala 860-1	134.00	7	1.469	0.427	0.507	0.150	1	6
KMW AWS Twin Dual 70	134.00	52	1.469	0.427	0.507	0.150	5	45
Ericsson RRUS 11 B12	134.00	152	1.469	0.427	0.507	0.150	15	130
Kathrein Scala 800 1	134.00	53	1.469	0.427	0.507	0.150	5	45
Kathrein Scala 742 3	134.00	89	1.469	0.427	0.507	0.150	9	76
Ericsson AIR 21, 1.3	134.00	249	1.469	0.427	0.507	0.150	25	213
Commscope SBNH-	134.00	149	1.469	0.427	0.507	0.150	15	127
Flat Low Profile Pla	131.00	1,500	1.404	0.291	0.436	0.115	115	1,283
Generic 2" x 4" GPS	30.00	5	0.074	0.072	0.040	0.057	0	4
		40,468	76.666	44.921	32.600	11.505	2,460	34,608

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	-48.38	-2.45	0.00	-299.59	0.00	299.59	5,359.60	2,679.80	12,402.6	6,210.55	0.00	0.00	0.057
5.00	-46.43	-2.42	0.00	-287.36	0.00	287.36	5,275.68	2,637.84	11,915.5	5,966.65	0.01	-0.01	0.057
10.00	-44.52	-2.38	0.00	-275.26	0.00	275.26	5,189.62	2,594.81	11,433.1	5,725.08	0.03	-0.03	0.057
15.00	-42.65	-2.34	0.00	-263.34	0.00	263.34	5,101.44	2,550.72	10,955.7	5,485.99	0.06	-0.04	0.056
20.00	-40.82	-2.30	0.00	-251.64	0.00	251.64	5,011.12	2,505.56	10,483.5	5,249.58	0.12	-0.06	0.056
25.00	-39.03	-2.25	0.00	-240.15	0.00	240.15	4,918.68	2,459.34	10,017.1	5,016.02	0.18	-0.07	0.056
30.00	-37.27	-2.21	0.00	-228.89	0.00	228.89	4,824.11	2,412.05	9,556.78	4,785.49	0.26	-0.09	0.056
35.00	-35.55	-2.16	0.00	-217.87	0.00	217.87	4,727.41	2,363.70	9,102.80	4,558.17	0.36	-0.10	0.055
40.00	-33.88	-2.11	0.00	-207.07	0.00	207.07	4,628.58	2,314.29	8,655.58	4,334.22	0.48	-0.12	0.055
45.00	-32.92	-2.09	0.00	-196.52	0.00	196.52	4,527.62	2,263.81	8,215.47	4,113.84	0.61	-0.14	0.055
47.92	-31.78	-2.05	0.00	-190.43	0.00	190.43	4,467.74	2,233.87	7,962.16	3,987.00	0.70	-0.15	0.055
50.00	-29.59	-1.98	0.00	-186.16	0.00	186.16	4,424.53	2,212.27	7,782.82	3,897.19	0.77	-0.15	0.054
54.08	-29.33	-1.98	0.00	-178.07	0.00	178.07	3,619.86	1,809.93	6,334.27	3,171.85	0.91	-0.17	0.064
55.00	-27.93	-1.93	0.00	-176.26	0.00	176.26	3,605.16	1,802.58	6,271.86	3,140.59	0.94	-0.17	0.064
60.00	-26.55	-1.90	0.00	-166.59	0.00	166.59	3,523.72	1,761.86	5,934.59	2,971.70	1.13	-0.19	0.064
65.00	-25.22	-1.88	0.00	-157.08	0.00	157.08	3,440.15	1,720.07	5,602.88	2,805.61	1.35	-0.22	0.063
70.00	-23.92	-1.86	0.00	-147.69	0.00	147.69	3,354.45	1,677.22	5,277.11	2,642.48	1.59	-0.24	0.063
75.00	-22.65	-1.86	0.00	-138.38	0.00	138.38	3,266.62	1,633.31	4,957.62	2,482.50	1.85	-0.26	0.063
80.00	-21.41	-1.87	0.00	-129.08	0.00	129.08	3,154.85	1,577.42	4,612.87	2,309.86	2.14	-0.29	0.063
85.00	-20.21	-1.89	0.00	-119.73	0.00	119.73	3,036.31	1,518.16	4,271.03	2,138.69	2.46	-0.31	0.063
90.00	-19.04	-1.92	0.00	-110.27	0.00	110.27	2,917.78	1,458.89	3,942.34	1,974.10	2.80	-0.34	0.062
95.00	-18.41	-1.94	0.00	-100.67	0.00	100.67	2,799.25	1,399.62	3,626.81	1,816.10	3.18	-0.37	0.062
97.75	-17.67	-1.96	0.00	-95.34	0.00	95.34	2,734.06	1,367.03	3,458.88	1,732.01	3.39	-0.39	0.062
100.00	-16.94	-1.98	0.00	-90.92	0.00	90.92	2,680.72	1,340.36	3,324.44	1,664.69	3.58	-0.40	0.061
102.25	-16.47	-1.99	0.00	-86.47	0.00	86.47	1,683.04	841.52	2,097.24	1,050.18	3.77	-0.41	0.092
105.00	-15.63	-2.01	0.00	-80.99	0.00	80.99	1,655.06	827.53	2,011.86	1,007.42	4.01	-0.43	0.090
110.00	-14.81	-2.03	0.00	-70.91	0.00	70.91	1,602.55	801.28	1,859.07	930.92	4.49	-0.47	0.085
115.00	-14.02	-2.03	0.00	-60.76	0.00	60.76	1,547.92	773.96	1,709.77	856.15	5.00	-0.51	0.080
120.00	-13.24	-2.02	0.00	-50.60	0.00	50.60	1,491.15	745.57	1,564.29	783.31	5.56	-0.55	0.073
125.00	-12.49	-1.99	0.00	-40.50	0.00	40.50	1,428.88	714.44	1,419.66	710.88	6.16	-0.59	0.066
130.00	-12.35	-1.98	0.00	-30.55	0.00	30.55	1,349.86	674.93	1,266.22	634.05	6.80	-0.63	0.057
131.00	-10.05	-1.81	0.00	-28.57	0.00	28.57	1,334.06	667.03	1,236.59	619.21	6.93	-0.63	0.054
134.00	-9.00	-1.72	0.00	-23.13	0.00	23.13	1,286.64	643.32	1,149.79	575.75	7.34	-0.65	0.047
135.00	-8.43	-1.66	0.00	-21.41	0.00	21.41	1,270.84	635.42	1,121.56	561.61	7.47	-0.66	0.045
140.00	-8.32	-1.64	0.00	-13.12	0.00	13.12	1,191.82	595.91	985.67	493.57	8.18	-0.68	0.034
141.00	-6.35	-1.36	0.00	-11.48	0.00	11.48	1,176.01	588.01	959.54	480.48	8.32	-0.69	0.029
142.00	-5.73	-1.27	0.00	-10.11	0.00	10.11	1,160.21	580.10	933.77	467.58	8.47	-0.69	0.027
145.00	-5.36	-1.20	0.00	-6.31	0.00	6.31	1,112.80	556.40	858.55	429.91	8.90	-0.70	0.020
149.00	-2.23	-0.54	0.00	-1.52	0.00	1.52	1,049.58	524.79	763.17	382.15	9.49	-0.71	0.006
150.00	-2.05	-0.49	0.00	-0.99	0.00	0.99	1,033.78	516.89	740.20	370.65	9.64	-0.71	0.005
152.00	0.00	-0.47	0.00	0.00	0.00	0.00	1,002.17	501.08	695.32	348.18	9.94	-0.71	0.000

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	-33.24	-2.44	0.00	-295.15	0.00	295.15	5,359.60	2,679.80	12,402.6	6,210.55	0.00	0.00	0.054
5.00	-31.90	-2.41	0.00	-282.93	0.00	282.93	5,275.68	2,637.84	11,915.5	5,966.65	0.01	-0.01	0.053
10.00	-30.59	-2.37	0.00	-270.86	0.00	270.86	5,189.62	2,594.81	11,433.1	5,725.08	0.03	-0.03	0.053
15.00	-29.30	-2.33	0.00	-258.99	0.00	258.99	5,101.44	2,550.72	10,955.7	5,485.99	0.06	-0.04	0.053
20.00	-28.04	-2.28	0.00	-247.35	0.00	247.35	5,011.12	2,505.56	10,483.5	5,249.58	0.11	-0.05	0.053
25.00	-26.81	-2.23	0.00	-235.94	0.00	235.94	4,918.68	2,459.34	10,017.1	5,016.02	0.18	-0.07	0.052
30.00	-25.60	-2.18	0.00	-224.77	0.00	224.77	4,824.11	2,412.05	9,556.78	4,785.49	0.26	-0.09	0.052
35.00	-24.43	-2.14	0.00	-213.85	0.00	213.85	4,727.41	2,363.70	9,102.80	4,558.17	0.36	-0.10	0.052
40.00	-23.28	-2.09	0.00	-203.18	0.00	203.18	4,628.58	2,314.29	8,655.58	4,334.22	0.47	-0.12	0.052
45.00	-22.62	-2.06	0.00	-192.75	0.00	192.75	4,527.62	2,263.81	8,215.47	4,113.84	0.60	-0.13	0.052
47.92	-21.83	-2.02	0.00	-186.74	0.00	186.74	4,467.74	2,233.87	7,962.16	3,987.00	0.69	-0.14	0.052
50.00	-20.33	-1.95	0.00	-182.53	0.00	182.53	4,424.53	2,212.27	7,782.82	3,897.19	0.75	-0.15	0.051
54.08	-20.15	-1.95	0.00	-174.56	0.00	174.56	3,619.86	1,809.93	6,334.27	3,171.85	0.89	-0.17	0.061
55.00	-19.18	-1.90	0.00	-172.77	0.00	172.77	3,605.16	1,802.58	6,271.86	3,140.59	0.92	-0.17	0.060
60.00	-18.24	-1.87	0.00	-163.25	0.00	163.25	3,523.72	1,761.86	5,934.59	2,971.70	1.11	-0.19	0.060
65.00	-17.32	-1.84	0.00	-153.90	0.00	153.90	3,440.15	1,720.07	5,602.88	2,805.61	1.33	-0.21	0.060
70.00	-16.43	-1.83	0.00	-144.68	0.00	144.68	3,354.45	1,677.22	5,277.11	2,642.48	1.56	-0.24	0.060
75.00	-15.56	-1.82	0.00	-135.55	0.00	135.55	3,266.62	1,633.31	4,957.62	2,482.50	1.82	-0.26	0.059
80.00	-14.71	-1.83	0.00	-126.43	0.00	126.43	3,154.85	1,577.42	4,612.87	2,309.86	2.10	-0.28	0.059
85.00	-13.88	-1.85	0.00	-117.27	0.00	117.27	3,036.31	1,518.16	4,271.03	2,138.69	2.42	-0.31	0.059
90.00	-13.08	-1.88	0.00	-108.01	0.00	108.01	2,917.78	1,458.89	3,942.34	1,974.10	2.75	-0.34	0.059
95.00	-12.65	-1.90	0.00	-98.60	0.00	98.60	2,799.25	1,399.62	3,626.81	1,816.10	3.12	-0.36	0.059
97.75	-12.14	-1.92	0.00	-93.38	0.00	93.38	2,734.06	1,367.03	3,458.88	1,732.01	3.33	-0.38	0.058
100.00	-11.63	-1.94	0.00	-89.06	0.00	89.06	2,680.72	1,340.36	3,324.44	1,664.69	3.51	-0.39	0.058
102.25	-11.31	-1.95	0.00	-84.69	0.00	84.69	1,683.04	841.52	2,097.24	1,050.18	3.70	-0.40	0.087
105.00	-10.73	-1.97	0.00	-79.32	0.00	79.32	1,655.06	827.53	2,011.86	1,007.42	3.94	-0.42	0.085
110.00	-10.17	-1.99	0.00	-69.45	0.00	69.45	1,602.55	801.28	1,859.07	930.92	4.40	-0.46	0.081
115.00	-9.62	-1.99	0.00	-59.51	0.00	59.51	1,547.92	773.96	1,709.77	856.15	4.91	-0.50	0.076
120.00	-9.09	-1.98	0.00	-49.56	0.00	49.56	1,491.15	745.57	1,564.29	783.31	5.46	-0.54	0.069
125.00	-8.58	-1.94	0.00	-39.68	0.00	39.68	1,428.88	714.44	1,419.66	710.88	6.04	-0.58	0.062
130.00	-8.48	-1.94	0.00	-29.96	0.00	29.96	1,349.86	674.93	1,266.22	634.05	6.67	-0.61	0.054
131.00	-6.90	-1.78	0.00	-28.02	0.00	28.02	1,334.06	667.03	1,236.59	619.21	6.80	-0.62	0.050
134.00	-6.18	-1.69	0.00	-22.69	0.00	22.69	1,286.64	643.32	1,149.79	575.75	7.20	-0.64	0.044
135.00	-5.79	-1.62	0.00	-21.00	0.00	21.00	1,270.84	635.42	1,121.56	561.61	7.33	-0.65	0.042
140.00	-5.71	-1.61	0.00	-12.88	0.00	12.88	1,191.82	595.91	985.67	493.57	8.02	-0.67	0.031
141.00	-4.36	-1.34	0.00	-11.27	0.00	11.27	1,176.01	588.01	959.54	480.48	8.16	-0.67	0.027
142.00	-3.93	-1.24	0.00	-9.93	0.00	9.93	1,160.21	580.10	933.77	467.58	8.30	-0.68	0.025
145.00	-3.68	-1.18	0.00	-6.20	0.00	6.20	1,112.80	556.40	858.55	429.91	8.73	-0.69	0.018
149.00	-1.53	-0.53	0.00	-1.50	0.00	1.50	1,049.58	524.79	763.17	382.15	9.31	-0.69	0.005
150.00	-1.41	-0.49	0.00	-0.97	0.00	0.97	1,033.78	516.89	740.20	370.65	9.46	-0.69	0.004
152.00	0.00	-0.47	0.00	0.00	0.00	0.00	1,002.17	501.08	695.32	348.18	9.75	-0.69	0.000

Site Number: 302518

Code: ANSI/TIA-222-G

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Site Name: Newtown CT 3, CT

Engineering Number: OAA745673_C3_01

2/8/2019 3:11:19 PM

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	21.10	0.00	48.54	0.00	0.00	2408.89	102.25	0.54
0.9D + 1.6W	20.61	0.00	36.40	0.00	0.00	2323.86	102.25	0.52
1.2D + 1.0Di + 1.0Wi	6.27	0.00	80.82	0.00	0.00	706.60	102.25	0.17
(1.2 + 0.2Sds) * DL + E ELFM	1.32	0.00	48.38	0.00	0.00	165.77	102.25	0.05
(1.2 + 0.2Sds) * DL + E EMAM	2.45	0.00	48.38	0.00	0.00	299.59	102.25	0.09
(0.9 - 0.2Sds) * DL + E ELFM	1.32	0.00	33.24	0.00	0.00	163.56	102.25	0.04
(0.9 - 0.2Sds) * DL + E EMAM	2.44	0.00	33.24	0.00	0.00	295.15	102.25	0.09
1.0D + 1.0W	5.36	0.00	40.47	0.00	0.00	607.13	102.25	0.14

Site Number: 302518

Code: ANSI/TIA-222-G

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Site Name: Newtown CT 3, CT

Engineering Number: OAA745673_C3_01

2/8/2019 3:11:19 PM

Customer: AT&T MOBILITY

Base Summary

Reactions

Original Design			Analysis			Moment Design %
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	
3,859.30	35.30	34.68	2,408.89	80.82	21.10	46.24

Base Plate

Yield (ksi)	Thick (in)	Width (in)	Style	Poly Sides	Clip Len (in)	Effective Len (in)	Mu (kip-in)	Phi Mn (kip-in)	Ratio
60.0	2.000	72.000	Round	0	0.00	11.257	386.58	607.90	0.64

Anchor Bolts

Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Arrange	Cluster Dist (in)	Start Angle (deg)	Compression			Tension		
									Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
66.00	16	2.25" A615-	2.25	75.00	100.00	Radial	0.00	0.0	114.55	260.00	0.45	104.44	260.00	0.41



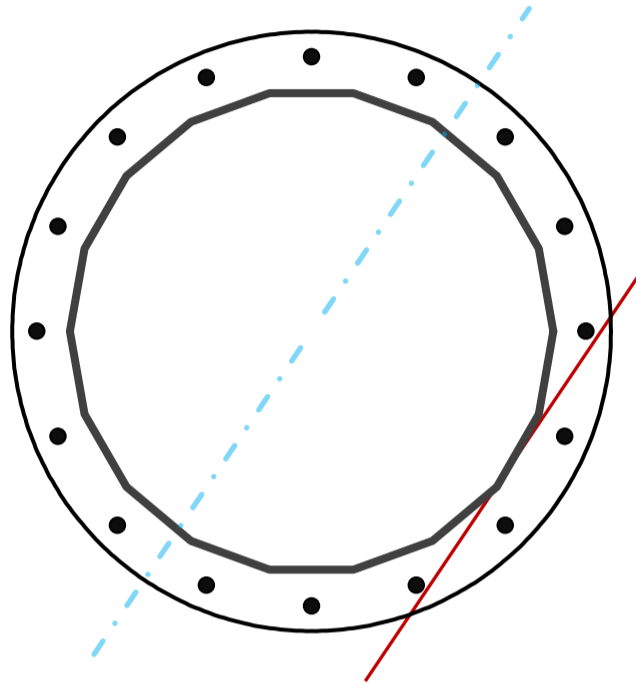
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	18	-
Diameter	56.75	in
Thickness	0.4375	in
Orientation Offset	0	°

Base Reactions		
Moment, Mu	2408.9	k-ft
Axial, Pu	48.5	k
Shear, Vu	21.1	k
Neutral Axis	236	°

Report Capacities		
Component	Capacity	Result
Base Plate	49%	Pass
Anchor Rods	43%	Pass
Dwyidag	-	-

Base Plate		
Shape	Round	-
Diameter, ϕ	72	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	d	$\eta=0.5$
Clear Distance	3	in
Applied Moment, Mu	825.7	k
Bending Stress, ϕMn	1679.4	k



Original Anchor Rods		
Arrangement	Radial	-
Quantity	16	-
Diameter, ϕ	2 1/4	in
Bolt Circle	66	in
Grade	A615-75	-
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	13.0	in
Orientation Offset	0	°
Applied Force, Pu	110.5	k
Anchor Rods, ϕPn	259.8	k

Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	21.1	2408.9	1.00
Anchor Rod Forces	21.1	2408.9	1.00
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	0.0	0.00
Stiffener Forces	0.0	0.0	0.00

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in ²	in ²	in ⁴	#	in ⁴
Pole	77.0062	4.2781	0.2740		30529.20
Bolt	3.9761	3.2477	0.8393	4.5	28307.30
Bolt1	0.0000	0.0000	0.0000	0	0.00
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	0.0000	0.0000	0.0000		0.00
Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate		
Shape	Round	-
Diameter, D	72	in
Thickness, t	2	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Base Plate Chord	44.311	in
Detail Type	d	-
Detail Factor	0.50	-
Clear Distance	3	-

Anchor Rods		
Anchor Rod Quantity, N	16	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	66	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	110.5	k
Applied Shear, Vu	0.4	k
Compressive Capacity, ϕP_n	259.8	k
Tensile Capacity, ϕR_n	0.425	OK
Interaction Capacity	0.428	OK

External Base Plate		
Chord Length AA	37.612	in
Additional AA	4.000	in
Section Modulus, Z	41.612	in ³
Applied Moment, Mu	825.7	k-ft
Bending Capacity, ϕM_n	2247.1	k-ft
Capacity, Mu/ ϕM_n	0.367	OK

Chord Length AB	36.232	in
Additional AB	4.000	in
Section Modulus, Z	40.232	in ³
Applied Moment, Mu	728.2	k-ft
Bending Capacity, ϕM_n	2172.5	k-ft
Capacity, Mu/ ϕM_n	0.335	OK

Bend Line Length	31.100	in
Additional Bend Line	0.000	in
Section Modulus, Z	31.100	in ³
Applied Moment, Mu	825.7	k-ft
Bending Capacity, ϕM_n	1679.4	k-ft
Capacity, Mu/ ϕM_n	0.492	OK

Internal Base Plate		
Arc Length	0.000	in
Section Modulus, Z	0.000	in ³
Moment Arm	0.000	in
Applied Moment, Mu	0.0	k-ft
Bending Capacity, ϕM_n	0.0	k-ft
Capacity, Mu/ ϕM_n		



January 22, 2019

Mary Caulfield
SAI Communications
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Subject: **Appurtenance Mount Analysis Report**

Carrier Designation: **Site Number:** CT2125
Site Name: Round Swamp

Engineering Firm Designation: **B+T Group Project Number:** 130650.003.01

Site Data: **6 Fairfield Drive, Newtown, CT, 06470, Fairfield County**
Latitude 41.42552°, Longitude -73.37405°
Monopole
12.5 ft. 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 75.0%)

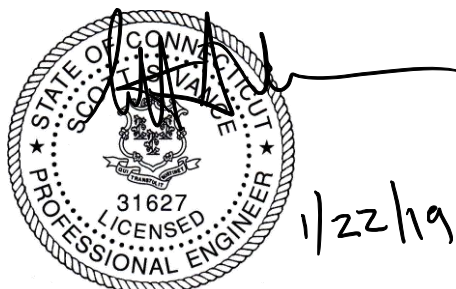
The analysis has been performed in accordance with the ANSI/TIA-222-G Standard. This analysis utilizes an ultimate 3-second gust wind speed of 125 mph (converted to an equivalent 97 mph nominal 3-second gust wind speed per Section 1609.3.1 for use with ANSI/TIA-222 G) as required by the 2015 International Building Code. 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. 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: Suman Rana, E.I.T

Respectfully submitted by: B&T Engineering, Inc.
COA: PEC.0001564 Expires: 02/10/2019



Scott S. Vance, P.E.

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1) INTRODUCTION

The appurtenance mount consists of **Site Pro platform mount, Part# RMQP-496-HK** at 154 ft., attached to monopole at 6 Fairfield Drive, Newtown, CT, 06470, Fairfield County. The proposed antenna loading information was obtained from SAI Communications. 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-G-2-2005 Structural Standard for Antenna Supporting Structures and Antennas – Addendum 2 using a 3-second gust wind speed of 97 mph with no ice and 50 mph with 0.75 inch escalated ice thickness exposure category C, risk category II & Topo category 1 were used in the analysis. In addition, the platform 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 1 – Proposed and Existing Equipment Information

Loading	RAD Center Elev. (ft.)	Position	Qty.	Manufacturer	Model / Type	Note
Proposed	154	3,5	6	Kathrein	800-10965	1
		3	3	Ericsson	B14 4478	2
		5	3	Ericsson	B5/B12 4449	
			3	Ericsson	4415 B30	
		-	1	Raycap	DC6-48-60-18-8C	3
			1	Raycap	DC6-48-60-0-8C-EV	
Existing	154	2	3	Powerwave	7770	4
			6	Powerwave	LGP 21401	
		3	3	Ericsson	RRUS-12	
		-	1	Raycap	DC6-48-60-18-8F	

Note:

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

Table 2 - Documents Provided

Documents	Remarks	Reference	Source
SOW_12.13.18	Existing Loading Proposed Loading	Date: 12/13/2018	SAI Communications

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.

Manufacturer's drawings were used to create the model.

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. **Site Pro platform mount, Part# RMQP-496-HK** has been used for mount analysis.

The following assumptions have been included in the analysis of the mount

Component	Section	Length	Note
Proposed Mount Pipe	2" Std. Pipe	8'-0"	In all Positions

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 3 – Mount Component Stresses vs. Capacity

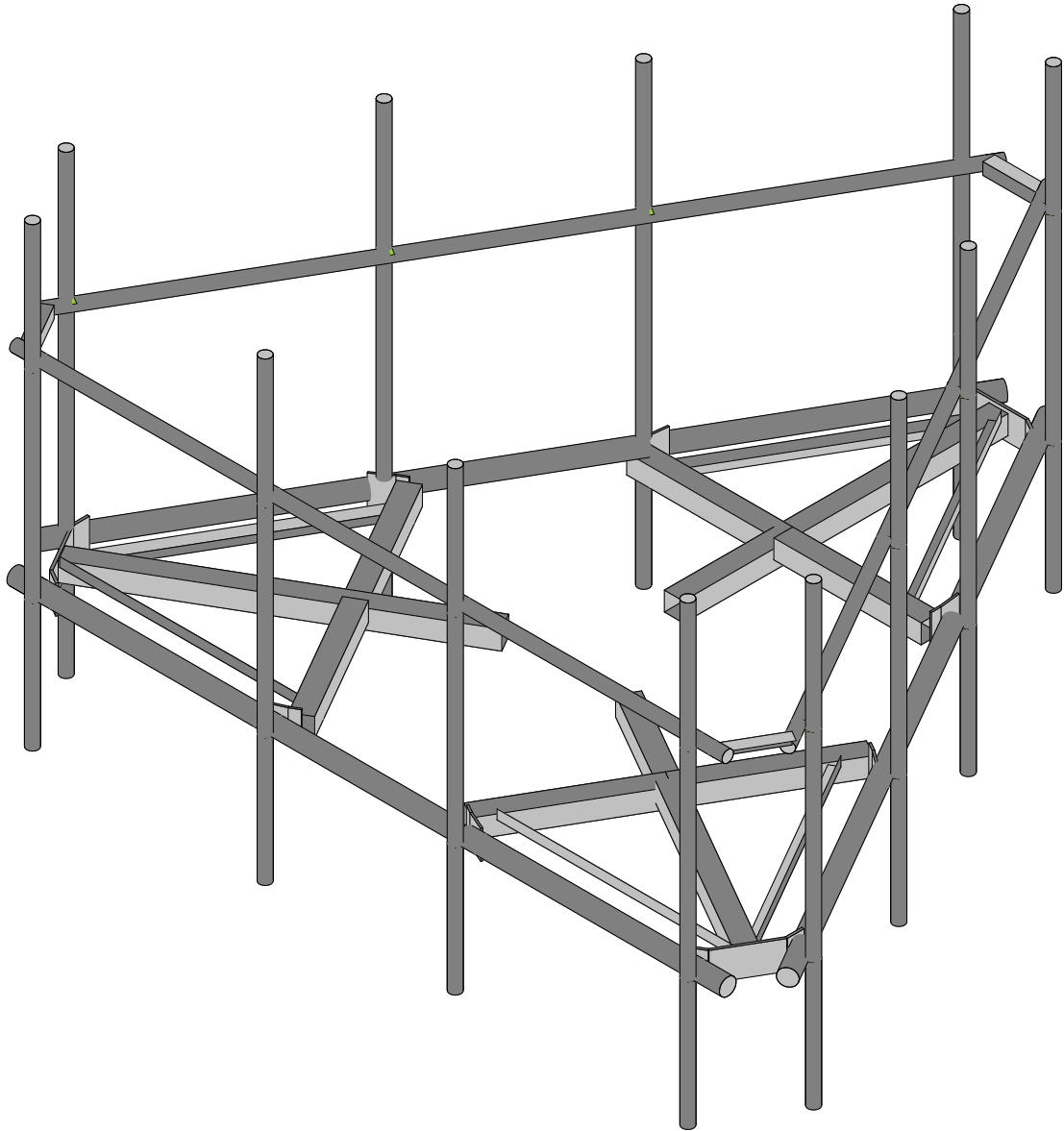
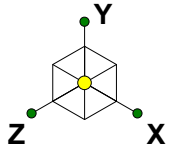
Notes	Component	Elevation (ft.)	% Capacity	Pass / Fail
-	Main Horizontals	154	18.5	Pass
-	Handrails	154	48.1	Pass
-	Supporting Angles	154	41.0	Pass
-	Supporting Tubes	154	55.4	Pass
-	Mount Pipes	154	75.0	Pass
-	Connection Plates	154	62.1	Pass
-	Connection Angles	154	47.3	Pass

5) RECOMMENDATIONS

The mount **Site Pro platform mount, Part# RMP-496-HK** has sufficient capacity to carry the existing and proposed loads and is in compliance with the ANSI/TIA-222-G standard for the proposed and existing loading. (Refer to the RISA output for the specific members).

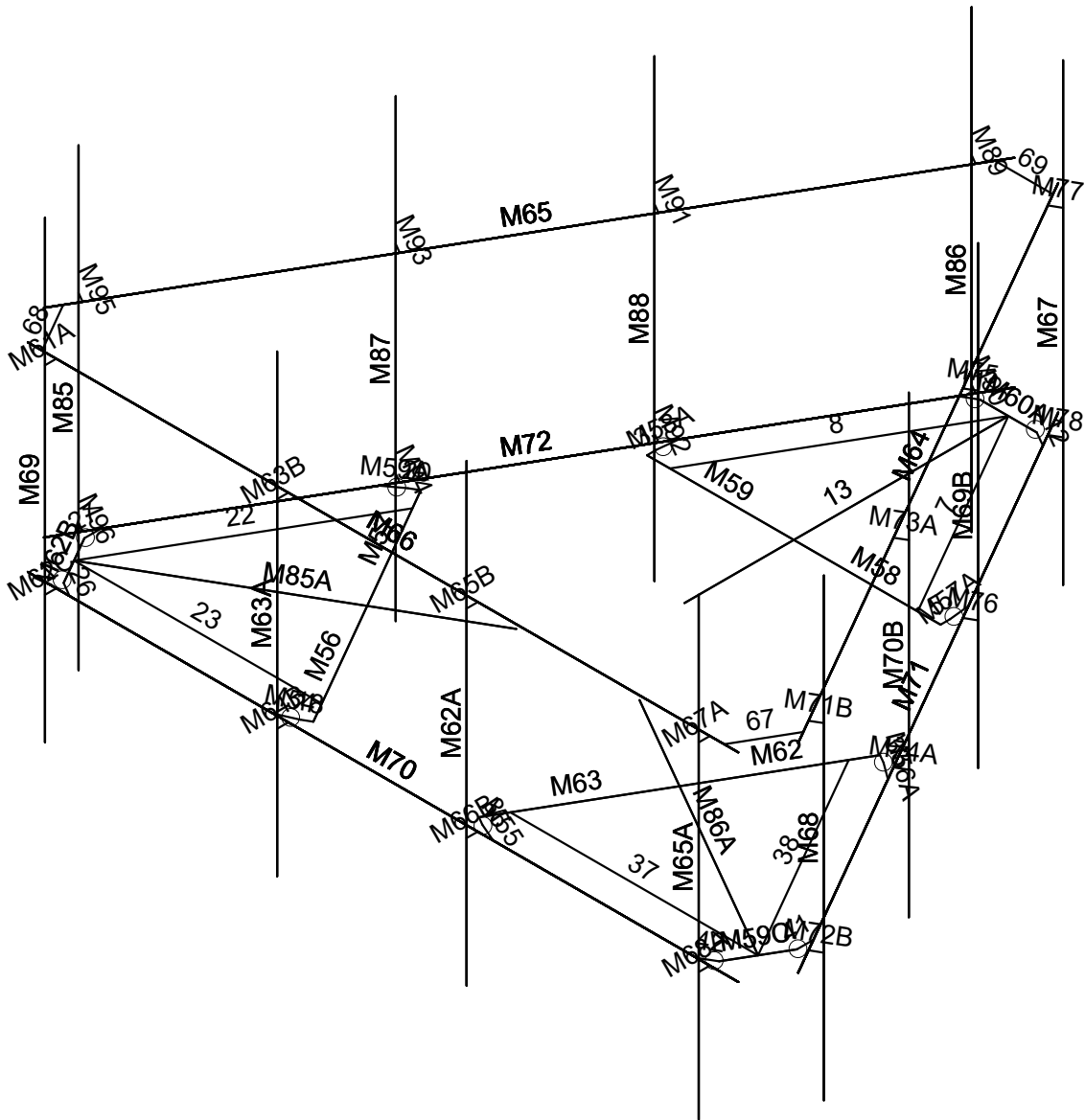
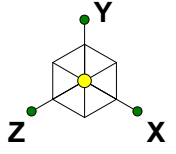
APPENDIX A

(RISA-3D Output)



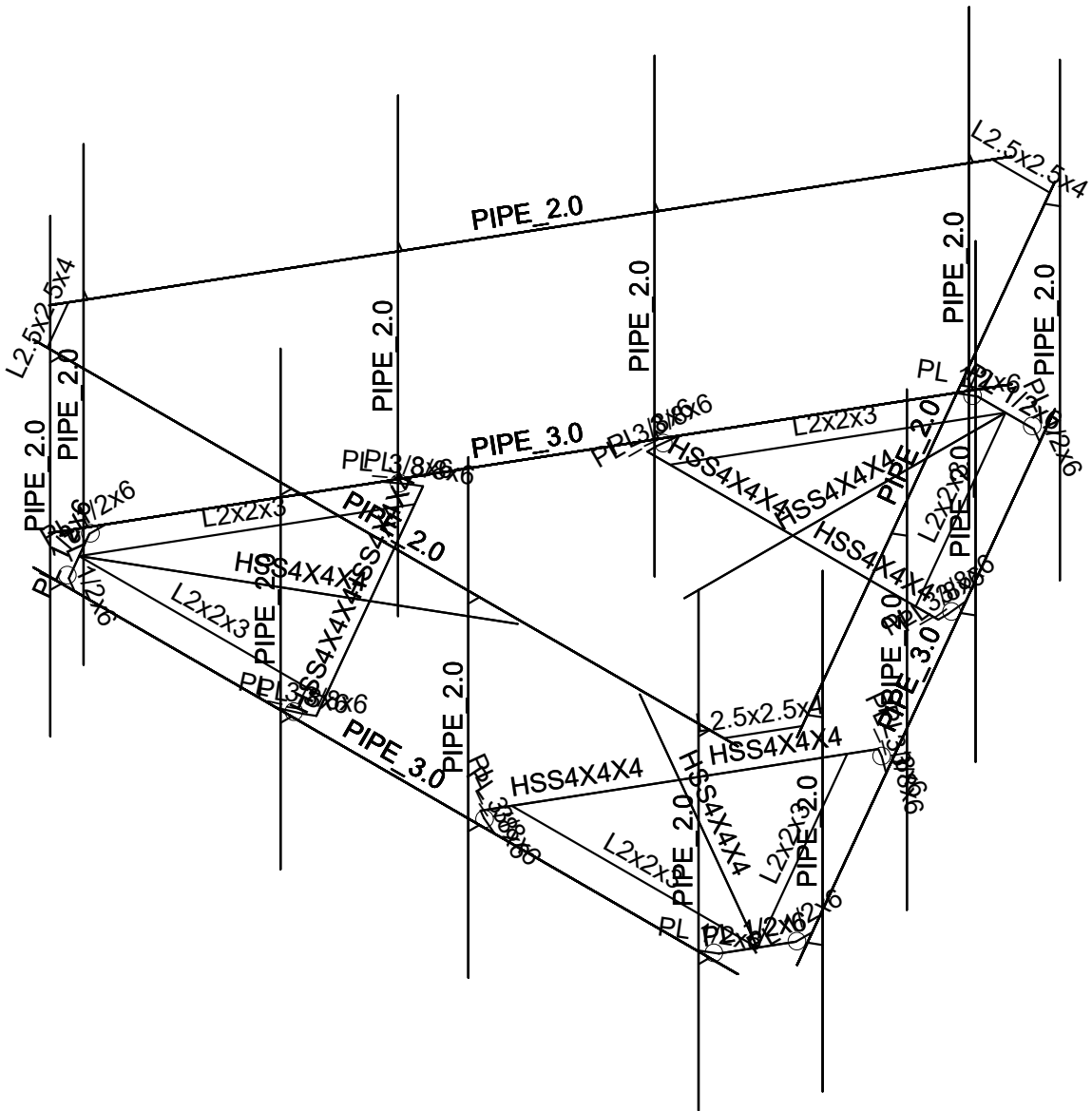
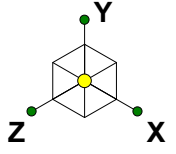
Envelope Only Solution

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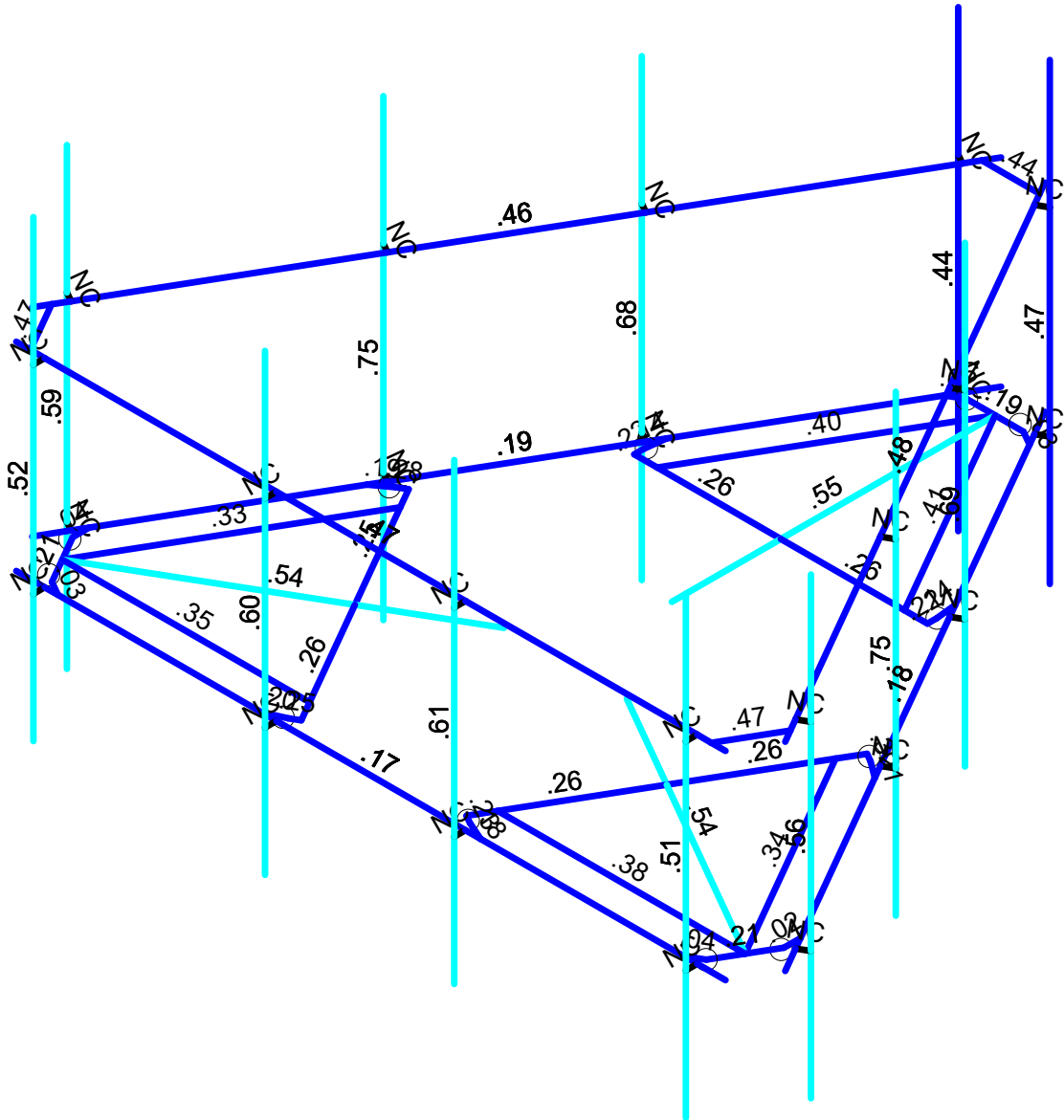
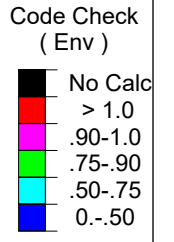
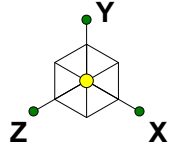
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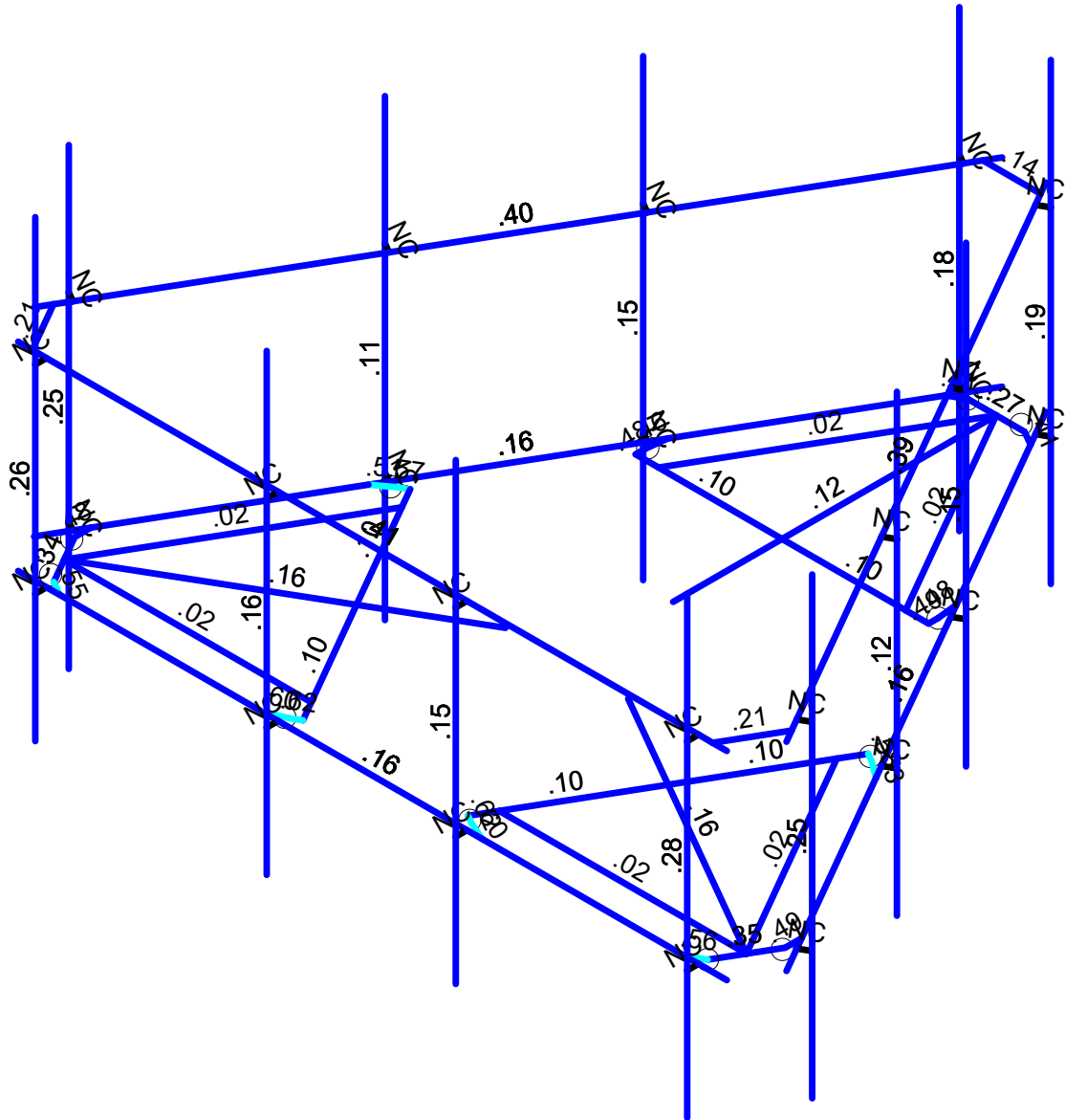
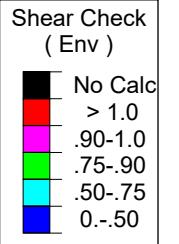
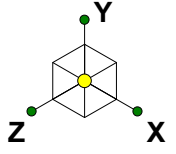
Envelope Only Solution

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Member Code Checks Displayed (Enveloped)
Envelope Only Solution

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Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

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Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Handrails	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	MF-H1	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
3	F1-S1	HSS4X4X4	Beam	Tube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
4	F1-ST1	HSS4X4X4	Beam	Tube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
5	F1-SA1	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
6	F1-C1	PL 1/2x6	Beam	RECT	A36 Gr.36	Typical	3	.063	9	.237
7	F1-CA1	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026
8	MF-P1	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	F1-KR	LL2.5x2.5x3x6	Beam	Double Angle (3/4 G...	A36 Gr.36	Typical	1.8	3.09	1.07	.023
10	F1-C2	PL 3/8x6	Beam	RECT	A36 Gr.36	Typical	2.28	.027	6.84	.105

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	3	N3	N1			F1-C2	Beam	RECT	A36 Gr.36	Typical
2	5	N4	N2			F1-C2	Beam	RECT	A36 Gr.36	Typical
3	7	N7	N9			F1-SA1	Beam	Single Angle	A36 Gr.36	Typical
4	8	N7	N8		270	F1-SA1	Beam	Single Angle	A36 Gr.36	Typical
5	11	N5	N75			F1-C1	Beam	RECT	A36 Gr.36	Typical
6	12	N6	N64			F1-C1	Beam	RECT	A36 Gr.36	Typical
7	13	N7	N11			F1-ST1	Beam	Tube	A500 Gr.B...	Typical
8	18	N14	N12			F1-C2	Beam	RECT	A36 Gr.36	Typical
9	20	N15	N13			F1-C2	Beam	RECT	A36 Gr.36	Typical
10	22	N18	N20			F1-SA1	Beam	Single Angle	A36 Gr.36	Typical
11	23	N18	N19		270	F1-SA1	Beam	Single Angle	A36 Gr.36	Typical
12	26	N16	N43			F1-C1	Beam	RECT	A36 Gr.36	Typical
13	27	N17	N80			F1-C1	Beam	RECT	A36 Gr.36	Typical
14	33	N25	N23			F1-C2	Beam	RECT	A36 Gr.36	Typical
15	35	N26	N24			F1-C2	Beam	RECT	A36 Gr.36	Typical
16	37	N29	N31			F1-SA1	Beam	Single Angle	A36 Gr.36	Typical
17	38	N29	N30		270	F1-SA1	Beam	Single Angle	A36 Gr.36	Typical
18	41	N27	N59			F1-C1	Beam	RECT	A36 Gr.36	Typical
19	42	N28	N48			F1-C1	Beam	RECT	A36 Gr.36	Typical
20	67	N103	N100		90	F1-CA1	Beam	Single Angle	A36 Gr.36	Typical
21	68	N102	N104		180	F1-CA1	Beam	Single Angle	A36 Gr.36	Typical
22	69	N105	N101		90	F1-CA1	Beam	Single Angle	A36 Gr.36	Typical
23	M70	N106	N109			MF-H1	Beam	Pipe	A53 Gr.B	Typical
24	M71	N107	N110			MF-H1	Beam	Pipe	A53 Gr.B	Typical
25	M72	N108	N111			MF-H1	Beam	Pipe	A53 Gr.B	Typical
26	M64	N94A	N97A			Handrails	Beam	Pipe	A53 Gr.B	Typical
27	M65	N95A	N98A			Handrails	Beam	Pipe	A53 Gr.B	Typical
28	M66	N96A	N99A			Handrails	Beam	Pipe	A53 Gr.B	Typical
29	M65A	N115	N111A			MF-P1	Column	Pipe	A53 Gr.B	Typical
30	M69	N108A	N112			MF-P1	Column	Pipe	A53 Gr.B	Typical
31	M62	N25	N32			F1-S1	Beam	Tube	A500 Gr.B...	Typical
32	M63	N32	N26			F1-S1	Beam	Tube	A500 Gr.B...	Typical
33	M56	N14	N21			F1-S1	Beam	Tube	A500 Gr.B...	Typical
34	M57	N21	N15			F1-S1	Beam	Tube	A500 Gr.B...	Typical
35	M58	N4	N10			F1-S1	Beam	Tube	A500 Gr.B...	Typical
36	M59	N10	N3			F1-S1	Beam	Tube	A500 Gr.B...	Typical
37	M54	N12	N95			F1-C2	Beam	RECT	A36 Gr.36	Typical
38	M55	N24	N98			F1-C2	Beam	RECT	A36 Gr.36	Typical
39	M56A	N23	N96B			F1-C2	Beam	RECT	A36 Gr.36	Typical
40	M57A	N2	N99			F1-C2	Beam	RECT	A36 Gr.36	Typical
41	M58A	N1	N97B			F1-C2	Beam	RECT	A36 Gr.36	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
42	M59A	N13	N100B			F1-C2	Beam	RECT	A36 Gr.36	Typical
43	M62A	N109B	N116A		90	MF-P1	Column	Pipe	A53 Gr.B	Typical
44	M63A	N112A	N114A		90	MF-P1	Column	Pipe	A53 Gr.B	Typical
45	M62B	N16	N17			F1-C1	Beam	RECT	A36 Gr.36	Typical
46	M59C	N27	N28			F1-C1	Beam	RECT	A36 Gr.36	Typical
47	M60A	N5	N6			F1-C1	Beam	RECT	A36 Gr.36	Typical
48	M61A	N144	N99B			RIGID	None	None	RIGID	Typical
49	M62C	N143	N94B			RIGID	None	None	RIGID	Typical
50	M63B	N150A	N106B			RIGID	None	None	RIGID	Typical
51	M64B	N147A	N96C			RIGID	None	None	RIGID	Typical
52	M65B	N103B	N149A			RIGID	None	None	RIGID	Typical
53	M66B	N148A	N98C			RIGID	None	None	RIGID	Typical
54	M67A	N105A	N146			RIGID	None	None	RIGID	Typical
55	M68A	N145	N100A			RIGID	None	None	RIGID	Typical
56	M67	N147B	N145A			MF-P1	Column	Pipe	A53 Gr.B	Typical
57	M68	N144A	N146A			MF-P1	Column	Pipe	A53 Gr.B	Typical
58	M69B	N152A	N155		90	MF-P1	Column	Pipe	A53 Gr.B	Typical
59	M70B	N153A	N154A		90	MF-P1	Column	Pipe	A53 Gr.B	Typical
60	M71B	N97	N141A			RIGID	None	None	RIGID	Typical
61	M72B	N95B	N140A			RIGID	None	None	RIGID	Typical
62	M73A	N104B	N151A			RIGID	None	None	RIGID	Typical
63	M74A	N95C	N148B			RIGID	None	None	RIGID	Typical
64	M75	N150B	N101B			RIGID	None	None	RIGID	Typical
65	M76	N99C	N149B			RIGID	None	None	RIGID	Typical
66	M77	N143A	N103A			RIGID	None	None	RIGID	Typical
67	M78	N101A	N142A			RIGID	None	None	RIGID	Typical
68	M85	N183	N181			MF-P1	Column	Pipe	A53 Gr.B	Typical
69	M86	N180	N182			MF-P1	Column	Pipe	A53 Gr.B	Typical
70	M87	N188	N191		90	MF-P1	Column	Pipe	A53 Gr.B	Typical
71	M88	N189	N190		90	MF-P1	Column	Pipe	A53 Gr.B	Typical
72	M89	N98B	N177			RIGID	None	None	RIGID	Typical
73	M90	N96	N176			RIGID	None	None	RIGID	Typical
74	M91	N105C	N187			RIGID	None	None	RIGID	Typical
75	M92	N97C	N184			RIGID	None	None	RIGID	Typical
76	M93	N186	N102B			RIGID	None	None	RIGID	Typical
77	M94	N100C	N185			RIGID	None	None	RIGID	Typical
78	M95	N179	N104A			RIGID	None	None	RIGID	Typical
79	M96	N102A	N178			RIGID	None	None	RIGID	Typical
80	M85A	N18	N149			F1-ST1	Beam	Tube	A500 Gr.B...	Typical
81	M86A	N29	N151			F1-ST1	Beam	Tube	A500 Gr.B...	Typical

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Dead	DL		-1			60	3	
2	0 Wind - No Ice	WLZ					60	57	
3	90 Wind - No Ice	WLX					60	57	
4	0 Wind - Ice	WLZ					60	57	
5	90 Wind - Ice	WLX					60	57	
6	0 Wind - Service	WLZ					60	57	
7	90 Wind - Service	WLX					60	57	
8	Ice	OL1					60	57	3
9	Live Load a	LL				1			
10	Live Load b	LL				1			
11	Live Load c	LL				1			
12	Live Load d	LL				1			



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 Designer : SR
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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
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	BLC 1 Transient Area...	None						21	
29	BLC 8 Transient Area...	None						21	

Load Combinations

	Description	S...	PDelta	S...B..Factor	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...
1	1.4 Dead	Y...	Y	1	1.4									
2	0.9 D + 1.6 - 0 W	Y...	Y	1	.9	2	1.6							
3	0.9 D + 1.6 - 30 W	Y...	Y	1	.9	2	1...	3	.8					
4	0.9 D + 1.6 - 60 W	Y...	Y	1	.9	3	1...	2	.8					
5	0.9 D + 1.6 - 90 W	Y...	Y	1	.9	3	1.6							
6	0.9 D + 1.6 - 120 W	Y...	Y	1	.9	3	1...	2	-.8					
7	0.9 D + 1.6 - 150 W	Y...	Y	1	.9	2	-1...	3	.8					
8	0.9 D + 1.6 - 180 W	Y...	Y	1	.9	2	-1.6							
9	0.9 D + 1.6 - 210 W	Y...	Y	1	.9	2	-1...	3	-.8					
10	0.9 D + 1.6 - 240 W	Y...	Y	1	.9	3	-1...	2	-.8					
11	0.9 D + 1.6 - 270 W	Y...	Y	1	.9	3	-1.6							
12	0.9 D + 1.6 - 300 W	Y...	Y	1	.9	3	-1...	2	.8					
13	0.9 D + 1.6 - 330 W	Y...	Y	1	.9	2	1...	3	-.8					
14	1.2 D + 1.6 - 0 W	Y...	Y	1	1.2	2	1.6							
15	1.2 D + 1.6 - 30 W	Y...	Y	1	1.2	2	1...	3	.8					
16	1.2 D + 1.6 - 60 W	Y...	Y	1	1.2	3	1...	2	.8					
17	1.2 D + 1.6 - 90 W	Y...	Y	1	1.2	3	1.6							
18	1.2 D + 1.6 - 120 W	Y...	Y	1	1.2	3	1...	2	-.8					
19	1.2 D + 1.6 - 150 W	Y...	Y	1	1.2	2	-1...	3	.8					
20	1.2 D + 1.6 - 180 W	Y...	Y	1	1.2	2	-1.6							
21	1.2 D + 1.6 - 210 W	Y...	Y	1	1.2	2	-1...	3	-.8					
22	1.2 D + 1.6 - 240 W	Y...	Y	1	1.2	3	-1...	2	-.8					
23	1.2 D + 1.6 - 270 W	Y...	Y	1	1.2	3	-1.6							
24	1.2 D + 1.6 - 300 W	Y...	Y	1	1.2	3	-1...	2	.8					
25	1.2 D + 1.6 - 330 W	Y...	Y	1	1.2	2	1...	3	-.8					
26	0.9 D + 1.6 - 0 W/Ice	Y...	Y	1	.9	4	1.6		8	1				
27	0.9 D + 1.6 - 30 W/Ice	Y...	Y	1	.9	4	1...	5	.8	8	1			
28	0.9 D + 1.6 - 60 W/Ice	Y...	Y	1	.9	5	1...	4	.8	8	1			
29	0.9 D + 1.6 - 90 W/Ice	Y...	Y	1	.9	5	1.6		8	1				
30	0.9 D + 1.6 - 120 W/Ice	Y...	Y	1	.9	5	1...	4	-.8	8	1			
31	0.9 D + 1.6 - 150 W/Ice	Y...	Y	1	.9	4	-1...	5	.8	8	1			
32	0.9 D + 1.6 - 180 W/Ice	Y...	Y	1	.9	4	-1.6		8	1				
33	0.9 D + 1.6 - 210 W/Ice	Y...	Y	1	.9	4	-1...	5	-.8	8	1			
34	0.9 D + 1.6 - 240 W/Ice	Y...	Y	1	.9	5	-1...	4	-.8	8	1			
35	0.9 D + 1.6 - 270 W/Ice	Y...	Y	1	.9	5	-1.6		8	1				



Company : B+T Group
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Load Combinations (Continued)

Description	S...	PDelta	S...B...	Factor	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...
36 0.9 D + 1.6 - 300 W/Ice	Y...	Y	1	.9	5	-1...	4	.8	8	1					
37 0.9 D + 1.6 - 330 W/Ice	Y...	Y	1	.9	4	1...	5	-8	8	1					
38 1.2 D + 1.0 - 0 W/Ice	Y...	Y	1	1.2	4	1			8	1					
39 1.2 D + 1.0 - 30 W/Ice	Y...	Y	1	1.2	4	.8...	5	.5	8	1					
40 1.2 D + 1.0 - 60 W/Ice	Y...	Y	1	1.2	5	.8...	4	.5	8	1					
41 1.2 D + 1.0 - 90 W/Ice	Y...	Y	1	1.2	5	1			8	1					
42 1.2 D + 1.0 - 120 W/Ice	Y...	Y	1	1.2	5	.8...	4	-.5	8	1					
43 1.2 D + 1.0 - 150 W/Ice	Y...	Y	1	1.2	4	----	5	.5	8	1					
44 1.2 D + 1.0 - 180 W/Ice	Y...	Y	1	1.2	4	-1			8	1					
45 1.2 D + 1.0 - 210 W/Ice	Y...	Y	1	1.2	4	----	5	-.5	8	1					
46 1.2 D + 1.0 - 240 W/Ice	Y...	Y	1	1.2	5	----	4	-.5	8	1					
47 1.2 D + 1.0 - 270 W/Ice	Y...	Y	1	1.2	5	-1			8	1					
48 1.2 D + 1.0 - 300 W/Ice	Y...	Y	1	1.2	5	----	4	.5	8	1					
49 1.2 D + 1.0 - 330 W/Ice	Y...	Y	1	1.2	4	.8...	5	-.5	8	1					
50 1.2 D + 1.5 LL a + Service - 0 W	Y...	Y	1	1.2	6	1			9	1.5					
51 1.2 D + 1.5 LL a + Service - 30 W	Y...	Y	1	1.2	6	.8...	7	.5	9	1.5					
52 1.2 D + 1.5 LL a + Service - 60 W	Y...	Y	1	1.2	7	.8...	6	.5	9	1.5					
53 1.2 D + 1.5 LL a + Service - 90 W	Y...	Y	1	1.2	7	1			9	1.5					
54 1.2 D + 1.5 LL a + Service - 120 W	Y...	Y	1	1.2	7	.8...	6	-.5	9	1.5					
55 1.2 D + 1.5 LL a + Service - 150 W	Y...	Y	1	1.2	6	----	7	.5	9	1.5					
56 1.2 D + 1.5 LL a + Service - 180 W	Y...	Y	1	1.2	6	-1			9	1.5					
57 1.2 D + 1.5 LL a + Service - 210 W	Y...	Y	1	1.2	6	----	7	-.5	9	1.5					
58 1.2 D + 1.5 LL a + Service - 240 W	Y...	Y	1	1.2	7	----	6	-.5	9	1.5					
59 1.2 D + 1.5 LL a + Service - 270 W	Y...	Y	1	1.2	7	-1			9	1.5					
60 1.2 D + 1.5 LL a + Service - 300 W	Y...	Y	1	1.2	7	----	6	.5	9	1.5					
61 1.2 D + 1.5 LL a + Service - 330 W	Y...	Y	1	1.2	6	.8...	7	-.5	9	1.5					
62 1.2 D + 1.5 LL b + Service - 0 W	Y...	Y	1	1.2	6	1			10	1.5					
63 1.2 D + 1.5 LL b + Service - 30 W	Y...	Y	1	1.2	6	.8...	7	.5	10	1.5					
64 1.2 D + 1.5 LL b + Service - 60 W	Y...	Y	1	1.2	7	.8...	6	.5	10	1.5					
65 1.2 D + 1.5 LL b + Service - 90 W	Y...	Y	1	1.2	7	1			10	1.5					
66 1.2 D + 1.5 LL b + Service - 120 W	Y...	Y	1	1.2	7	.8...	6	-.5	10	1.5					
67 1.2 D + 1.5 LL b + Service - 150 W	Y...	Y	1	1.2	6	----	7	.5	10	1.5					
68 1.2 D + 1.5 LL b + Service - 180 W	Y...	Y	1	1.2	6	-1			10	1.5					
69 1.2 D + 1.5 LL b + Service - 210 W	Y...	Y	1	1.2	6	----	7	-.5	10	1.5					
70 1.2 D + 1.5 LL b + Service - 240 W	Y...	Y	1	1.2	7	----	6	-.5	10	1.5					
71 1.2 D + 1.5 LL b + Service - 270 W	Y...	Y	1	1.2	7	-1			10	1.5					
72 1.2 D + 1.5 LL b + Service - 300 W	Y...	Y	1	1.2	7	----	6	.5	10	1.5					
73 1.2 D + 1.5 LL b + Service - 330 W	Y...	Y	1	1.2	6	.8...	7	-.5	10	1.5					
74 1.2 D + 1.5 LL c + Service - 0 W	Y...	Y	1	1.2	6	1			11	1.5					
75 1.2 D + 1.5 LL c + Service - 30 W	Y...	Y	1	1.2	6	.8...	7	.5	11	1.5					
76 1.2 D + 1.5 LL c + Service - 60 W	Y...	Y	1	1.2	7	.8...	6	.5	11	1.5					
77 1.2 D + 1.5 LL c + Service - 90 W	Y...	Y	1	1.2	7	1			11	1.5					
78 1.2 D + 1.5 LL c + Service - 120 W	Y...	Y	1	1.2	7	.8...	6	-.5	11	1.5					
79 1.2 D + 1.5 LL c + Service - 150 W	Y...	Y	1	1.2	6	----	7	.5	11	1.5					
80 1.2 D + 1.5 LL c + Service - 180 W	Y...	Y	1	1.2	6	-1			11	1.5					
81 1.2 D + 1.5 LL c + Service - 210 W	Y...	Y	1	1.2	6	----	7	-.5	11	1.5					
82 1.2 D + 1.5 LL c + Service - 240 W	Y...	Y	1	1.2	7	----	6	-.5	11	1.5					
83 1.2 D + 1.5 LL c + Service - 270 W	Y...	Y	1	1.2	7	-1			11	1.5					
84 1.2 D + 1.5 LL c + Service - 300 W	Y...	Y	1	1.2	7	----	6	.5	11	1.5					
85 1.2 D + 1.5 LL c + Service - 330 W	Y...	Y	1	1.2	6	.8...	7	-.5	11	1.5					
86 1.2 D + 1.5 LL d + Service - 0 W	Y...	Y	1	1.2	6	1			12	1.5					
87 1.2 D + 1.5 LL d + Service - 30 W	Y...	Y	1	1.2	6	.8...	7	.5	12	1.5					
88 1.2 D + 1.5 LL d + Service - 60 W	Y...	Y	1	1.2	7	.8...	6	.5	12	1.5					
89 1.2 D + 1.5 LL d + Service - 90 W	Y...	Y	1	1.2	7	1			12	1.5					
90 1.2 D + 1.5 LL d + Service - 120 W	Y...	Y	1	1.2	7	.8...	6	-.5	12	1.5					
91 1.2 D + 1.5 LL d + Service - 150 W	Y...	Y	1	1.2	6	----	7	.5	12	1.5					
92 1.2 D + 1.5 LL d + Service - 180 W	Y...	Y	1	1.2	6	-1			12	1.5					



Load Combinations (Continued)

Description	S...	PDelta	S...B...Factor	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...
93	1.2 D + 1.5 LL d + Service - 210 W	Y...	Y	1 1.2	6	-...	7	-5	12	1.5				
94	1.2 D + 1.5 LL d + Service - 240 W	Y...	Y	1 1.2	7	-...	6	-5	12	1.5				
95	1.2 D + 1.5 LL d + Service - 270 W	Y...	Y	1 1.2	7	-1			12	1.5				
96	1.2 D + 1.5 LL d + Service - 300 W	Y...	Y	1 1.2	7	-...	6	.5	12	1.5				
97	1.2 D + 1.5 LL d + Service - 330 W	Y...	Y	1 1.2	6	.8...	7	-5	12	1.5				
98	1.2 D + 1.5 LL Maint (1)	Y...	Y	1 1.2					13	1.5				
99	1.2 D + 1.5 LL Maint (2)	Y...	Y	1 1.2					14	1.5				
100	1.2 D + 1.5 LL Maint (3)	Y...	Y	1 1.2					15	1.5				
101	1.2 D + 1.5 LL Maint (4)	Y...	Y	1 1.2					16	1.5				
102	1.2 D + 1.5 LL Maint (5)	Y...	Y	1 1.2					17	1.5				
103	1.2 D + 1.5 LL Maint (6)	Y...	Y	1 1.2					18	1.5				
104	1.2 D + 1.5 LL Maint (7)	Y...	Y	1 1.2					19	1.5				
105	1.2 D + 1.5 LL Maint (8)	Y...	Y	1 1.2					20	1.5				
106	1.2 D + 1.5 LL Maint (9)	Y...	Y	1 1.2					21	1.5				
107	1.2 D + 1.5 LL Maint (10)	Y...	Y	1 1.2					22	1.5				
108	1.2 D + 1.5 LL Maint (11)	Y...	Y	1 1.2					23	1.5				
109	1.2 D + 1.5 LL Maint (12)	Y...	Y	1 1.2					24	1.5				
110	1.2 D + 1.5 LL Maint (13)	Y...	Y	1 1.2					25	1.5				
111	1.2 D + 1.5 LL Maint (14)	Y...	Y	1 1.2					26	1.5				
112	1.2 D + 1.5 LL Maint (15)	Y...	Y	1 1.2					27	1.5				

Member Point Loads (BLC 1 : Dead)

Member Label	Direction	Magnitude[k.k-ft]	Location[in,%]	
1	M65A	Y	-018	%25
2	M65A	Y	-018	%75
3	M65A	Y	-028	%50
4	M65A	Y	0	0
5	M65A	Y	0	0
6	M62A	Y	-054	%10
7	M62A	Y	-054	%90
8	M62A	Y	-06	%50
9	M62A	Y	-05	%50
10	M62A	Y	0	0
11	M63A	Y	-054	%10
12	M63A	Y	-054	%90
13	M63A	Y	-071	%50
14	M63A	Y	-044	%50
15	M63A	Y	0	0
16	M85A	Y	-033	%80
17	M85A	Y	0	0
18	M85A	Y	0	0
19	M85A	Y	0	0
20	M85A	Y	0	0
21	13	Y	-026	%80
22	13	Y	0	0
23	13	Y	0	0
24	13	Y	0	0
25	13	Y	0	0
26	M86A	Y	-026	%80
27	M86A	Y	0	0
28	M86A	Y	0	0
29	M86A	Y	0	0
30	M86A	Y	0	0
31	M85	Y	-018	%25
32	M85	Y	-018	%75



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[in, %]
33	M85	Y	-.028	%50
34	M85	Y	0	0
35	M85	Y	0	0
36	M87	Y	-.054	%10
37	M87	Y	-.054	%90
38	M87	Y	-.06	%50
39	M87	Y	-.05	%50
40	M87	Y	0	0
41	M88	Y	-.054	%10
42	M88	Y	-.054	%90
43	M88	Y	-.071	%50
44	M88	Y	-.044	%50
45	M88	Y	0	0
46	M67	Y	-.018	%25
47	M67	Y	-.018	%75
48	M67	Y	-.028	%50
49	M67	Y	0	0
50	M67	Y	0	0
51	M69B	Y	-.054	%10
52	M69B	Y	-.054	%90
53	M69B	Y	-.06	%50
54	M69B	Y	-.05	%50
55	M69B	Y	0	0
56	M70B	Y	-.054	%10
57	M70B	Y	-.054	%90
58	M70B	Y	-.071	%50
59	M70B	Y	-.044	%50
60	M70B	Y	0	0

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[in, %]
1	M65A	Z	-.087	%25
2	M65A	Z	-.087	%75
3	M65A	Z	-.07	%50
4	M65A	Z	0	0
5	M65A	Z	0	0
6	M62A	Z	-.219	%10
7	M62A	Z	-.219	%90
8	M62A	Z	-.034	%50
9	M62A	Z	-.041	%50
10	M62A	Z	0	0
11	M63A	Z	-.219	%10
12	M63A	Z	-.219	%90
13	M63A	Z	-.045	%50
14	M63A	Z	-.021	%50
15	M63A	Z	0	0
16	M85A	Z	-.038	%80
17	M85A	Z	0	0
18	M85A	Z	0	0
19	M85A	Z	0	0
20	M85A	Z	0	0
21	13	Z	-.036	%80
22	13	Z	0	0
23	13	Z	0	0
24	13	Z	0	0
25	13	Z	0	0



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[in,%]
26	M86A	Z	-.036	%80
27	M86A	Z	0	0
28	M86A	Z	0	0
29	M86A	Z	0	0
30	M86A	Z	0	0
31	M85	Z	-.087	%25
32	M85	Z	-.087	%75
33	M85	Z	-.07	%50
34	M85	Z	0	0
35	M85	Z	0	0
36	M87	Z	-.219	%10
37	M87	Z	-.219	%90
38	M87	Z	-.034	%50
39	M87	Z	-.041	%50
40	M87	Z	0	0
41	M88	Z	-.219	%10
42	M88	Z	-.219	%90
43	M88	Z	-.045	%50
44	M88	Z	-.021	%50
45	M88	Z	0	0
46	M67	Z	-.087	%25
47	M67	Z	-.087	%75
48	M67	Z	-.07	%50
49	M67	Z	0	0
50	M67	Z	0	0
51	M69B	Z	-.219	%10
52	M69B	Z	-.219	%90
53	M69B	Z	-.034	%50
54	M69B	Z	-.041	%50
55	M69B	Z	0	0
56	M70B	Z	-.219	%10
57	M70B	Z	-.219	%90
58	M70B	Z	-.045	%50
59	M70B	Z	-.021	%50
60	M70B	Z	0	0

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[in,%]
1	M65A	X	-.04	%25
2	M65A	X	-.04	%75
3	M65A	X	-.02	%50
4	M65A	X	0	0
5	M65A	X	0	0
6	M62A	X	-.076	%10
7	M62A	X	-.076	%90
8	M62A	X	-.058	%50
9	M62A	X	-.101	%50
10	M62A	X	0	0
11	M63A	X	-.076	%10
12	M63A	X	-.076	%90
13	M63A	X	-.062	%50
14	M63A	X	-.053	%50
15	M63A	X	0	0
16	M85A	X	-.038	%80
17	M85A	X	0	0
18	M85A	X	0	0



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
19	M85A	X	0	0
20	M85A	X	0	0
21	13	X	-.036	%80
22	13	X	0	0
23	13	X	0	0
24	13	X	0	0
25	13	X	0	0
26	M86A	X	-.036	%80
27	M86A	X	0	0
28	M86A	X	0	0
29	M86A	X	0	0
30	M86A	X	0	0
31	M85	X	-.04	%25
32	M85	X	-.04	%75
33	M85	X	-.02	%50
34	M85	X	0	0
35	M85	X	0	0
36	M87	X	-.076	%10
37	M87	X	-.076	%90
38	M87	X	-.058	%50
39	M87	X	-.101	%50
40	M87	X	0	0
41	M88	X	-.076	%10
42	M88	X	-.076	%90
43	M88	X	-.062	%50
44	M88	X	-.053	%50
45	M88	X	0	0
46	M67	X	-.04	%25
47	M67	X	-.04	%75
48	M67	X	-.02	%50
49	M67	X	0	0
50	M67	X	0	0
51	M69B	X	-.076	%10
52	M69B	X	-.076	%90
53	M69B	X	-.058	%50
54	M69B	X	-.101	%50
55	M69B	X	0	0
56	M70B	X	-.076	%10
57	M70B	X	-.076	%90
58	M70B	X	-.062	%50
59	M70B	X	-.053	%50
60	M70B	X	0	0

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M65A	Z	-.032	%25
2	M65A	Z	-.032	%75
3	M65A	Z	-.032	%50
4	M65A	Z	0	0
5	M65A	Z	0	0
6	M62A	Z	-.071	%10
7	M62A	Z	-.071	%90
8	M62A	Z	-.016	%50
9	M62A	Z	-.019	%50
10	M62A	Z	0	0
11	M63A	Z	-.071	%10



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[in,%]
12	M63A	Z	-.071	%90
13	M63A	Z	-.019	%50
14	M63A	Z	-.012	%50
15	M63A	Z	0	0
16	M85A	Z	-.015	%80
17	M85A	Z	0	0
18	M85A	Z	0	0
19	M85A	Z	0	0
20	M85A	Z	0	0
21	13	Z	-.014	%80
22	13	Z	0	0
23	13	Z	0	0
24	13	Z	0	0
25	13	Z	0	0
26	M86A	Z	-.014	%80
27	M86A	Z	0	0
28	M86A	Z	0	0
29	M86A	Z	0	0
30	M86A	Z	0	0
31	M85	Z	-.032	%25
32	M85	Z	-.032	%75
33	M85	Z	-.032	%50
34	M85	Z	0	0
35	M85	Z	0	0
36	M87	Z	-.071	%10
37	M87	Z	-.071	%90
38	M87	Z	-.016	%50
39	M87	Z	-.019	%50
40	M87	Z	0	0
41	M88	Z	-.071	%10
42	M88	Z	-.071	%90
43	M88	Z	-.019	%50
44	M88	Z	-.012	%50
45	M88	Z	0	0
46	M67	Z	-.032	%25
47	M67	Z	-.032	%75
48	M67	Z	-.032	%50
49	M67	Z	0	0
50	M67	Z	0	0
51	M69B	Z	-.071	%10
52	M69B	Z	-.071	%90
53	M69B	Z	-.016	%50
54	M69B	Z	-.019	%50
55	M69B	Z	0	0
56	M70B	Z	-.071	%10
57	M70B	Z	-.071	%90
58	M70B	Z	-.019	%50
59	M70B	Z	-.012	%50
60	M70B	Z	0	0

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[in,%]
1	M65A	X	-.019	%25
2	M65A	X	-.019	%75
3	M65A	X	-.015	%50
4	M65A	X	0	0



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[in, %]
5	M65A	X	0	0
6	M62A	X	-.031	%10
7	M62A	X	-.031	%90
8	M62A	X	-.024	%50
9	M62A	X	-.037	%50
10	M62A	X	0	0
11	M63A	X	-.031	%10
12	M63A	X	-.031	%90
13	M63A	X	-.025	%50
14	M63A	X	-.022	%50
15	M63A	X	0	0
16	M85A	X	-.015	%80
17	M85A	X	0	0
18	M85A	X	0	0
19	M85A	X	0	0
20	M85A	X	0	0
21	13	X	-.014	%80
22	13	X	0	0
23	13	X	0	0
24	13	X	0	0
25	13	X	0	0
26	M86A	X	-.014	%80
27	M86A	X	0	0
28	M86A	X	0	0
29	M86A	X	0	0
30	M86A	X	0	0
31	M85	X	-.019	%25
32	M85	X	-.019	%75
33	M85	X	-.015	%50
34	M85	X	0	0
35	M85	X	0	0
36	M87	X	-.031	%10
37	M87	X	-.031	%90
38	M87	X	-.024	%50
39	M87	X	-.037	%50
40	M87	X	0	0
41	M88	X	-.031	%10
42	M88	X	-.031	%90
43	M88	X	-.025	%50
44	M88	X	-.022	%50
45	M88	X	0	0
46	M67	X	-.019	%25
47	M67	X	-.019	%75
48	M67	X	-.015	%50
49	M67	X	0	0
50	M67	X	0	0
51	M69B	X	-.031	%10
52	M69B	X	-.031	%90
53	M69B	X	-.024	%50
54	M69B	X	-.037	%50
55	M69B	X	0	0
56	M70B	X	-.031	%10
57	M70B	X	-.031	%90
58	M70B	X	-.025	%50
59	M70B	X	-.022	%50
60	M70B	X	0	0



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M65A	Z	-0.008	%25
2	M65A	Z	-0.008	%75
3	M65A	Z	-0.007	%50
4	M65A	Z	0	0
5	M65A	Z	0	0
6	M62A	Z	-0.021	%10
7	M62A	Z	-0.021	%90
8	M62A	Z	-0.003	%50
9	M62A	Z	-0.004	%50
10	M62A	Z	0	0
11	M63A	Z	-0.021	%10
12	M63A	Z	-0.021	%90
13	M63A	Z	-0.004	%50
14	M63A	Z	-0.002	%50
15	M63A	Z	0	0
16	M85A	Z	-0.004	%80
17	M85A	Z	0	0
18	M85A	Z	0	0
19	M85A	Z	0	0
20	M85A	Z	0	0
21	13	Z	-0.003	%80
22	13	Z	0	0
23	13	Z	0	0
24	13	Z	0	0
25	13	Z	0	0
26	M86A	Z	-0.003	%80
27	M86A	Z	0	0
28	M86A	Z	0	0
29	M86A	Z	0	0
30	M86A	Z	0	0
31	M85	Z	-0.008	%25
32	M85	Z	-0.008	%75
33	M85	Z	-0.007	%50
34	M85	Z	0	0
35	M85	Z	0	0
36	M87	Z	-0.021	%10
37	M87	Z	-0.021	%90
38	M87	Z	-0.003	%50
39	M87	Z	-0.004	%50
40	M87	Z	0	0
41	M88	Z	-0.021	%10
42	M88	Z	-0.021	%90
43	M88	Z	-0.004	%50
44	M88	Z	-0.002	%50
45	M88	Z	0	0
46	M67	Z	-0.008	%25
47	M67	Z	-0.008	%75
48	M67	Z	-0.007	%50
49	M67	Z	0	0
50	M67	Z	0	0
51	M69B	Z	-0.021	%10
52	M69B	Z	-0.021	%90
53	M69B	Z	-0.003	%50
54	M69B	Z	-0.004	%50
55	M69B	Z	0	0
56	M70B	Z	-0.021	%10
57	M70B	Z	-0.021	%90



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[in,%]
58	M70B	Z	-0.004	%50
59	M70B	Z	-0.002	%50
60	M70B	Z	0	0

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[in,%]
1	M65A	X	-0.004	%25
2	M65A	X	-0.004	%75
3	M65A	X	-0.002	%50
4	M65A	X	0	0
5	M65A	X	0	0
6	M62A	X	-0.007	%10
7	M62A	X	-0.007	%90
8	M62A	X	-0.006	%50
9	M62A	X	-0.01	%50
10	M62A	X	0	0
11	M63A	X	-0.007	%10
12	M63A	X	-0.007	%90
13	M63A	X	-0.006	%50
14	M63A	X	-0.005	%50
15	M63A	X	0	0
16	M85A	X	-0.004	%80
17	M85A	X	0	0
18	M85A	X	0	0
19	M85A	X	0	0
20	M85A	X	0	0
21	13	X	-0.003	%80
22	13	X	0	0
23	13	X	0	0
24	13	X	0	0
25	13	X	0	0
26	M86A	X	-0.003	%80
27	M86A	X	0	0
28	M86A	X	0	0
29	M86A	X	0	0
30	M86A	X	0	0
31	M85	X	-0.004	%25
32	M85	X	-0.004	%75
33	M85	X	-0.002	%50
34	M85	X	0	0
35	M85	X	0	0
36	M87	X	-0.007	%10
37	M87	X	-0.007	%90
38	M87	X	-0.006	%50
39	M87	X	-0.01	%50
40	M87	X	0	0
41	M88	X	-0.007	%10
42	M88	X	-0.007	%90
43	M88	X	-0.006	%50
44	M88	X	-0.005	%50
45	M88	X	0	0
46	M67	X	-0.004	%25
47	M67	X	-0.004	%75
48	M67	X	-0.002	%50
49	M67	X	0	0
50	M67	X	0	0



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
51	M69B	X	-.007	%10
52	M69B	X	-.007	%90
53	M69B	X	-.006	%50
54	M69B	X	-.01	%50
55	M69B	X	0	0
56	M70B	X	-.007	%10
57	M70B	X	-.007	%90
58	M70B	X	-.006	%50
59	M70B	X	-.005	%50
60	M70B	X	0	0

Member Point Loads (BLC 8 : Ice)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M65A	Y	-.068	%25
2	M65A	Y	-.068	%75
3	M65A	Y	-.058	%50
4	M65A	Y	0	0
5	M65A	Y	0	0
6	M62A	Y	-.161	%10
7	M62A	Y	-.161	%90
8	M62A	Y	-.051	%50
9	M62A	Y	-.079	%50
10	M62A	Y	0	0
11	M63A	Y	-.161	%10
12	M63A	Y	-.161	%90
13	M63A	Y	-.057	%50
14	M63A	Y	-.043	%50
15	M63A	Y	0	0
16	M85A	Y	-.071	%80
17	M85A	Y	0	0
18	M85A	Y	0	0
19	M85A	Y	0	0
20	M85A	Y	0	0
21	13	Y	-.067	%80
22	13	Y	0	0
23	13	Y	0	0
24	13	Y	0	0
25	13	Y	0	0
26	M86A	Y	-.067	%80
27	M86A	Y	0	0
28	M86A	Y	0	0
29	M86A	Y	0	0
30	M86A	Y	0	0
31	M85	Y	-.068	%25
32	M85	Y	-.068	%75
33	M85	Y	-.058	%50
34	M85	Y	0	0
35	M85	Y	0	0
36	M87	Y	-.161	%10
37	M87	Y	-.161	%90
38	M87	Y	-.051	%50
39	M87	Y	-.079	%50
40	M87	Y	0	0
41	M88	Y	-.161	%10
42	M88	Y	-.161	%90
43	M88	Y	-.057	%50



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
44	M88	Y	-.043	%50
45	M88	Y	0	0
46	M67	Y	-.068	%25
47	M67	Y	-.068	%75
48	M67	Y	-.058	%50
49	M67	Y	0	0
50	M67	Y	0	0
51	M69B	Y	-.161	%10
52	M69B	Y	-.161	%90
53	M69B	Y	-.051	%50
54	M69B	Y	-.079	%50
55	M69B	Y	0	0
56	M70B	Y	-.161	%10
57	M70B	Y	-.161	%90
58	M70B	Y	-.057	%50
59	M70B	Y	-.043	%50
60	M70B	Y	0	0

Member Point Loads (BLC 13 : Maint LL 1)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M70	Y	-.25	%5

Member Point Loads (BLC 14 : Maint LL 2)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M70	Y	-.25	%95

Member Point Loads (BLC 15 : Maint LL 3)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M72	Y	-.25	%5

Member Point Loads (BLC 16 : Maint LL 4)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M72	Y	-.25	%95

Member Point Loads (BLC 17 : Maint LL 5)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M71	Y	-.25	%5

Member Point Loads (BLC 18 : Maint LL 6)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M71	Y	-.25	%95

Member Point Loads (BLC 19 : Maint LL 7)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M66	Y	-.25	%5

Member Point Loads (BLC 20 : Maint LL 8)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M66	Y	-.25	%95

Member Point Loads (BLC 21 : Maint LL 9)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
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Member Point Loads (BLC 21 : Maint LL 9) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M65	Y	-.25	%5

Member Point Loads (BLC 22 : Maint LL 10)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M65	Y	-.25	%95

Member Point Loads (BLC 23 : Maint LL 11)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M64	Y	-.25	%5

Member Point Loads (BLC 24 : Maint LL 12)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M64	Y	-.25	%95

Member Point Loads (BLC 25 : Maint LL 13)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M85A	Y	-.25	%5

Member Point Loads (BLC 26 : Maint LL 14)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	13	Y	-.25	%5

Member Point Loads (BLC 27 : Maint LL 15)

	Member Label	Direction	Magnitude[k,k-ft]	Location[in, %]
1	M86A	Y	-.25	%5

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[in, %]	End Location[in, %]
1	3	Z	-.019	-.019	0	0
2	5	Z	-.019	-.019	0	0
3	7	Z	-.011	-.011	0	0
4	8	Z	-.011	-.011	0	0
5	11	Z	-.019	-.019	0	0
6	12	Z	-.019	-.019	0	0
7	13	Z	-.018	-.018	0	0
8	18	Z	-.019	-.019	0	0
9	20	Z	-.019	-.019	0	0
10	22	Z	-.011	-.011	0	0
11	23	Z	-.011	-.011	0	0
12	26	Z	-.019	-.019	0	0
13	27	Z	-.019	-.019	0	0
14	33	Z	-.019	-.019	0	0
15	35	Z	-.019	-.019	0	0
16	37	Z	-.011	-.011	0	0
17	38	Z	-.011	-.011	0	0
18	41	Z	-.019	-.019	0	0
19	42	Z	-.019	-.019	0	0
20	67	Z	-.009	-.009	0	0
21	68	Z	-.009	-.009	0	0
22	69	Z	-.009	-.009	0	0
23	M70	Z	-.011	-.011	0	0
24	M71	Z	-.011	-.011	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[in, %]	End Location[in, %]
25	M72	Z	-0.11	-0.11	0	0
26	M64	Z	-0.07	-0.07	0	0
27	M65	Z	-0.07	-0.07	0	0
28	M66	Z	-0.07	-0.07	0	0
29	M65A	Z	-0.07	-0.07	0	0
30	M69	Z	-0.07	-0.07	0	0
31	M62	Z	-0.15	-0.15	0	0
32	M63	Z	-0.15	-0.15	0	0
33	M56	Z	-0.15	-0.15	0	0
34	M57	Z	-0.15	-0.15	0	0
35	M58	Z	-0.15	-0.15	0	0
36	M59	Z	-0.15	-0.15	0	0
37	M54	Z	-0.19	-0.19	0	0
38	M55	Z	-0.19	-0.19	0	0
39	M56A	Z	-0.19	-0.19	0	0
40	M57A	Z	-0.19	-0.19	0	0
41	M58A	Z	-0.19	-0.19	0	0
42	M59A	Z	-0.19	-0.19	0	0
43	M62A	Z	-0.07	-0.07	0	0
44	M63A	Z	-0.07	-0.07	0	0
45	M62B	Z	-0.19	-0.19	0	0
46	M59C	Z	-0.19	-0.19	0	0
47	M60A	Z	-0.19	-0.19	0	0
48	M67	Z	-0.07	-0.07	0	0
49	M68	Z	-0.07	-0.07	0	0
50	M69B	Z	-0.07	-0.07	0	0
51	M70B	Z	-0.07	-0.07	0	0
52	M85	Z	-0.07	-0.07	0	0
53	M86	Z	-0.07	-0.07	0	0
54	M87	Z	-0.07	-0.07	0	0
55	M88	Z	-0.07	-0.07	0	0
56	M85A	Z	-0.18	-0.18	0	0
57	M86A	Z	-0.18	-0.18	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[in, %]	End Location[in, %]
1	3	X	-0.19	-0.19	0	0
2	5	X	-0.19	-0.19	0	0
3	7	X	-0.11	-0.11	0	0
4	8	X	-0.11	-0.11	0	0
5	11	X	-0.19	-0.19	0	0
6	12	X	-0.19	-0.19	0	0
7	13	X	-0.18	-0.18	0	0
8	18	X	-0.19	-0.19	0	0
9	20	X	-0.19	-0.19	0	0
10	22	X	-0.11	-0.11	0	0
11	23	X	-0.11	-0.11	0	0
12	26	X	-0.19	-0.19	0	0
13	27	X	-0.19	-0.19	0	0
14	33	X	-0.19	-0.19	0	0
15	35	X	-0.19	-0.19	0	0
16	37	X	-0.11	-0.11	0	0
17	38	X	-0.11	-0.11	0	0
18	41	X	-0.19	-0.19	0	0
19	42	X	-0.19	-0.19	0	0
20	67	X	-0.09	-0.09	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[in, %]	End Location[in, %]
21	68	X	-0.009	-0.009	0	0
22	69	X	-0.009	-0.009	0	0
23	M70	X	-0.011	-0.011	0	0
24	M71	X	-0.011	-0.011	0	0
25	M72	X	-0.011	-0.011	0	0
26	M64	X	-0.007	-0.007	0	0
27	M65	X	-0.007	-0.007	0	0
28	M66	X	-0.007	-0.007	0	0
29	M65A	X	-0.007	-0.007	0	0
30	M69	X	-0.007	-0.007	0	0
31	M62	X	-0.015	-0.015	0	0
32	M63	X	-0.015	-0.015	0	0
33	M56	X	-0.015	-0.015	0	0
34	M57	X	-0.015	-0.015	0	0
35	M58	X	-0.015	-0.015	0	0
36	M59	X	-0.015	-0.015	0	0
37	M54	X	-0.019	-0.019	0	0
38	M55	X	-0.019	-0.019	0	0
39	M56A	X	-0.019	-0.019	0	0
40	M57A	X	-0.019	-0.019	0	0
41	M58A	X	-0.019	-0.019	0	0
42	M59A	X	-0.019	-0.019	0	0
43	M62A	X	-0.007	-0.007	0	0
44	M63A	X	-0.007	-0.007	0	0
45	M62B	X	-0.019	-0.019	0	0
46	M59C	X	-0.019	-0.019	0	0
47	M60A	X	-0.019	-0.019	0	0
48	M67	X	-0.007	-0.007	0	0
49	M68	X	-0.007	-0.007	0	0
50	M69B	X	-0.007	-0.007	0	0
51	M70B	X	-0.007	-0.007	0	0
52	M85	X	-0.007	-0.007	0	0
53	M86	X	-0.007	-0.007	0	0
54	M87	X	-0.007	-0.007	0	0
55	M88	X	-0.007	-0.007	0	0
56	M85A	X	-0.018	-0.018	0	0
57	M86A	X	-0.018	-0.018	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[in, %]	End Location[in, %]
1	3	Z	-0.022	-0.022	0	0
2	5	Z	-0.022	-0.022	0	0
3	7	Z	-0.008	-0.008	0	0
4	8	Z	-0.008	-0.008	0	0
5	11	Z	-0.016	-0.016	0	0
6	12	Z	-0.016	-0.016	0	0
7	13	Z	-0.009	-0.009	0	0
8	18	Z	-0.022	-0.022	0	0
9	20	Z	-0.022	-0.022	0	0
10	22	Z	-0.008	-0.008	0	0
11	23	Z	-0.008	-0.008	0	0
12	26	Z	-0.016	-0.016	0	0
13	27	Z	-0.016	-0.016	0	0
14	33	Z	-0.022	-0.022	0	0
15	35	Z	-0.022	-0.022	0	0
16	37	Z	-0.008	-0.008	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[in, %]	End Location[in, %]
17	38	Z	-0.008	-0.008	0	0
18	41	Z	-0.016	-0.016	0	0
19	42	Z	-0.016	-0.016	0	0
20	67	Z	-0.007	-0.007	0	0
21	68	Z	-0.007	-0.007	0	0
22	69	Z	-0.007	-0.007	0	0
23	M70	Z	-0.003	-0.003	0	0
24	M71	Z	-0.003	-0.003	0	0
25	M72	Z	-0.003	-0.003	0	0
26	M64	Z	-0.003	-0.003	0	0
27	M65	Z	-0.003	-0.003	0	0
28	M66	Z	-0.003	-0.003	0	0
29	M65A	Z	-0.003	-0.003	0	0
30	M69	Z	-0.003	-0.003	0	0
31	M62	Z	-0.008	-0.008	0	0
32	M63	Z	-0.008	-0.008	0	0
33	M56	Z	-0.008	-0.008	0	0
34	M57	Z	-0.008	-0.008	0	0
35	M58	Z	-0.008	-0.008	0	0
36	M59	Z	-0.008	-0.008	0	0
37	M54	Z	-0.014	-0.014	0	0
38	M55	Z	-0.014	-0.014	0	0
39	M56A	Z	-0.014	-0.014	0	0
40	M57A	Z	-0.014	-0.014	0	0
41	M58A	Z	-0.014	-0.014	0	0
42	M59A	Z	-0.014	-0.014	0	0
43	M62A	Z	-0.003	-0.003	0	0
44	M63A	Z	-0.003	-0.003	0	0
45	M62B	Z	-0.01	-0.01	0	0
46	M59C	Z	-0.01	-0.01	0	0
47	M60A	Z	-0.01	-0.01	0	0
48	M67	Z	-0.003	-0.003	0	0
49	M68	Z	-0.003	-0.003	0	0
50	M69B	Z	-0.003	-0.003	0	0
51	M70B	Z	-0.003	-0.003	0	0
52	M85	Z	-0.003	-0.003	0	0
53	M86	Z	-0.003	-0.003	0	0
54	M87	Z	-0.003	-0.003	0	0
55	M88	Z	-0.003	-0.003	0	0
56	M85A	Z	-0.009	-0.009	0	0
57	M86A	Z	-0.009	-0.009	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[in, %]	End Location[in, %]
1	3	X	-0.022	-0.022	0	0
2	5	X	-0.022	-0.022	0	0
3	7	X	-0.008	-0.008	0	0
4	8	X	-0.008	-0.008	0	0
5	11	X	-0.016	-0.016	0	0
6	12	X	-0.016	-0.016	0	0
7	13	X	-0.009	-0.009	0	0
8	18	X	-0.022	-0.022	0	0
9	20	X	-0.022	-0.022	0	0
10	22	X	-0.008	-0.008	0	0
11	23	X	-0.008	-0.008	0	0
12	26	X	-0.016	-0.016	0	0



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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[in, %]	End Location[in, %]
13	27	X	-0.016	-0.016	0	0
14	33	X	-0.022	-0.022	0	0
15	35	X	-0.022	-0.022	0	0
16	37	X	-0.008	-0.008	0	0
17	38	X	-0.008	-0.008	0	0
18	41	X	-0.016	-0.016	0	0
19	42	X	-0.016	-0.016	0	0
20	67	X	-0.007	-0.007	0	0
21	68	X	-0.007	-0.007	0	0
22	69	X	-0.007	-0.007	0	0
23	M70	X	-0.003	-0.003	0	0
24	M71	X	-0.003	-0.003	0	0
25	M72	X	-0.003	-0.003	0	0
26	M64	X	-0.003	-0.003	0	0
27	M65	X	-0.003	-0.003	0	0
28	M66	X	-0.003	-0.003	0	0
29	M65A	X	-0.003	-0.003	0	0
30	M69	X	-0.003	-0.003	0	0
31	M62	X	-0.008	-0.008	0	0
32	M63	X	-0.008	-0.008	0	0
33	M56	X	-0.008	-0.008	0	0
34	M57	X	-0.008	-0.008	0	0
35	M58	X	-0.008	-0.008	0	0
36	M59	X	-0.008	-0.008	0	0
37	M54	X	-0.014	-0.014	0	0
38	M55	X	-0.014	-0.014	0	0
39	M56A	X	-0.014	-0.014	0	0
40	M57A	X	-0.014	-0.014	0	0
41	M58A	X	-0.014	-0.014	0	0
42	M59A	X	-0.014	-0.014	0	0
43	M62A	X	-0.003	-0.003	0	0
44	M63A	X	-0.003	-0.003	0	0
45	M62B	X	-0.01	-0.01	0	0
46	M59C	X	-0.01	-0.01	0	0
47	M60A	X	-0.01	-0.01	0	0
48	M67	X	-0.003	-0.003	0	0
49	M68	X	-0.003	-0.003	0	0
50	M69B	X	-0.003	-0.003	0	0
51	M70B	X	-0.003	-0.003	0	0
52	M85	X	-0.003	-0.003	0	0
53	M86	X	-0.003	-0.003	0	0
54	M87	X	-0.003	-0.003	0	0
55	M88	X	-0.003	-0.003	0	0
56	M85A	X	-0.009	-0.009	0	0
57	M86A	X	-0.009	-0.009	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[in, %]	End Location[in, %]
1	3	Z	-0.002	-0.002	0	0
2	5	Z	-0.002	-0.002	0	0
3	7	Z	-0.001	-0.001	0	0
4	8	Z	-0.001	-0.001	0	0
5	11	Z	-0.002	-0.002	0	0
6	12	Z	-0.002	-0.002	0	0
7	13	Z	-0.002	-0.002	0	0
8	18	Z	-0.002	-0.002	0	0



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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[in, %]	End Location[in, %]
9	20	Z	-0.002	-0.002	0	0
10	22	Z	-0.001	-0.001	0	0
11	23	Z	-0.001	-0.001	0	0
12	26	Z	-0.002	-0.002	0	0
13	27	Z	-0.002	-0.002	0	0
14	33	Z	-0.002	-0.002	0	0
15	35	Z	-0.002	-0.002	0	0
16	37	Z	-0.001	-0.001	0	0
17	38	Z	-0.001	-0.001	0	0
18	41	Z	-0.002	-0.002	0	0
19	42	Z	-0.002	-0.002	0	0
20	67	Z	-0.0008	-0.0008	0	0
21	68	Z	-0.0008	-0.0008	0	0
22	69	Z	-0.0008	-0.0008	0	0
23	M70	Z	-0.0005	-0.0005	0	0
24	M71	Z	-0.0005	-0.0005	0	0
25	M72	Z	-0.0005	-0.0005	0	0
26	M64	Z	-0.0004	-0.0004	0	0
27	M65	Z	-0.0004	-0.0004	0	0
28	M66	Z	-0.0004	-0.0004	0	0
29	M65A	Z	-0.0004	-0.0004	0	0
30	M69	Z	-0.0004	-0.0004	0	0
31	M62	Z	-0.001	-0.001	0	0
32	M63	Z	-0.001	-0.001	0	0
33	M56	Z	-0.001	-0.001	0	0
34	M57	Z	-0.001	-0.001	0	0
35	M58	Z	-0.001	-0.001	0	0
36	M59	Z	-0.001	-0.001	0	0
37	M54	Z	-0.002	-0.002	0	0
38	M55	Z	-0.002	-0.002	0	0
39	M56A	Z	-0.002	-0.002	0	0
40	M57A	Z	-0.002	-0.002	0	0
41	M58A	Z	-0.002	-0.002	0	0
42	M59A	Z	-0.002	-0.002	0	0
43	M62A	Z	-0.0004	-0.0004	0	0
44	M63A	Z	-0.0004	-0.0004	0	0
45	M62B	Z	-0.002	-0.002	0	0
46	M59C	Z	-0.002	-0.002	0	0
47	M60A	Z	-0.002	-0.002	0	0
48	M67	Z	-0.0004	-0.0004	0	0
49	M68	Z	-0.0004	-0.0004	0	0
50	M69B	Z	-0.0004	-0.0004	0	0
51	M70B	Z	-0.0004	-0.0004	0	0
52	M85	Z	-0.0004	-0.0004	0	0
53	M86	Z	-0.0004	-0.0004	0	0
54	M87	Z	-0.0004	-0.0004	0	0
55	M88	Z	-0.0004	-0.0004	0	0
56	M85A	Z	-0.002	-0.002	0	0
57	M86A	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[in, %]	End Location[in, %]
1	3	X	-0.002	-0.002	0	0
2	5	X	-0.002	-0.002	0	0
3	7	X	-0.001	-0.001	0	0
4	8	X	-0.001	-0.001	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[in, %]	End Location[in, %]	
5	11	X	-0.002	-0.002	0	0
6	12	X	-0.002	-0.002	0	0
7	13	X	-0.002	-0.002	0	0
8	18	X	-0.002	-0.002	0	0
9	20	X	-0.002	-0.002	0	0
10	22	X	-0.001	-0.001	0	0
11	23	X	-0.001	-0.001	0	0
12	26	X	-0.002	-0.002	0	0
13	27	X	-0.002	-0.002	0	0
14	33	X	-0.002	-0.002	0	0
15	35	X	-0.002	-0.002	0	0
16	37	X	-0.001	-0.001	0	0
17	38	X	-0.001	-0.001	0	0
18	41	X	-0.002	-0.002	0	0
19	42	X	-0.002	-0.002	0	0
20	67	X	-0.0008	-0.0008	0	0
21	68	X	-0.0008	-0.0008	0	0
22	69	X	-0.0008	-0.0008	0	0
23	M70	X	-0.0005	-0.0005	0	0
24	M71	X	-0.0005	-0.0005	0	0
25	M72	X	-0.0005	-0.0005	0	0
26	M64	X	-0.0004	-0.0004	0	0
27	M65	X	-0.0004	-0.0004	0	0
28	M66	X	-0.0004	-0.0004	0	0
29	M65A	X	-0.0004	-0.0004	0	0
30	M69	X	-0.0004	-0.0004	0	0
31	M62	X	-0.001	-0.001	0	0
32	M63	X	-0.001	-0.001	0	0
33	M56	X	-0.001	-0.001	0	0
34	M57	X	-0.001	-0.001	0	0
35	M58	X	-0.001	-0.001	0	0
36	M59	X	-0.001	-0.001	0	0
37	M54	X	-0.002	-0.002	0	0
38	M55	X	-0.002	-0.002	0	0
39	M56A	X	-0.002	-0.002	0	0
40	M57A	X	-0.002	-0.002	0	0
41	M58A	X	-0.002	-0.002	0	0
42	M59A	X	-0.002	-0.002	0	0
43	M62A	X	-0.0004	-0.0004	0	0
44	M63A	X	-0.0004	-0.0004	0	0
45	M62B	X	-0.002	-0.002	0	0
46	M59C	X	-0.002	-0.002	0	0
47	M60A	X	-0.002	-0.002	0	0
48	M67	X	-0.0004	-0.0004	0	0
49	M68	X	-0.0004	-0.0004	0	0
50	M69B	X	-0.0004	-0.0004	0	0
51	M70B	X	-0.0004	-0.0004	0	0
52	M85	X	-0.0004	-0.0004	0	0
53	M86	X	-0.0004	-0.0004	0	0
54	M87	X	-0.0004	-0.0004	0	0
55	M88	X	-0.0004	-0.0004	0	0
56	M85A	X	-0.002	-0.002	0	0
57	M86A	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[in, %]	End Location[in, %]
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Member Distributed Loads (BLC 8 : Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft...	End Magnitude[k/ft.F...	Start Location[in, %]	End Location[in, %]
1	3	Y	-0.17	-0.17	0	0
2	5	Y	-0.17	-0.17	0	0
3	7	Y	-0.01	-0.01	0	0
4	8	Y	-0.01	-0.01	0	0
5	11	Y	-0.17	-0.17	0	0
6	12	Y	-0.17	-0.17	0	0
7	13	Y	-0.16	-0.16	0	0
8	18	Y	-0.17	-0.17	0	0
9	20	Y	-0.17	-0.17	0	0
10	22	Y	-0.01	-0.01	0	0
11	23	Y	-0.01	-0.01	0	0
12	26	Y	-0.17	-0.17	0	0
13	27	Y	-0.17	-0.17	0	0
14	33	Y	-0.17	-0.17	0	0
15	35	Y	-0.17	-0.17	0	0
16	37	Y	-0.01	-0.01	0	0
17	38	Y	-0.01	-0.01	0	0
18	41	Y	-0.17	-0.17	0	0
19	42	Y	-0.17	-0.17	0	0
20	67	Y	-0.11	-0.11	0	0
21	68	Y	-0.11	-0.11	0	0
22	69	Y	-0.11	-0.11	0	0
23	M70	Y	-0.11	-0.11	0	0
24	M71	Y	-0.11	-0.11	0	0
25	M72	Y	-0.11	-0.11	0	0
26	M64	Y	-0.009	-0.009	0	0
27	M65	Y	-0.009	-0.009	0	0
28	M66	Y	-0.009	-0.009	0	0
29	M65A	Y	-0.009	-0.009	0	0
30	M69	Y	-0.009	-0.009	0	0
31	M62	Y	-0.016	-0.016	0	0
32	M63	Y	-0.016	-0.016	0	0
33	M56	Y	-0.016	-0.016	0	0
34	M57	Y	-0.016	-0.016	0	0
35	M58	Y	-0.016	-0.016	0	0
36	M59	Y	-0.016	-0.016	0	0
37	M54	Y	-0.017	-0.017	0	0
38	M55	Y	-0.017	-0.017	0	0
39	M56A	Y	-0.017	-0.017	0	0
40	M57A	Y	-0.017	-0.017	0	0
41	M58A	Y	-0.017	-0.017	0	0
42	M59A	Y	-0.017	-0.017	0	0
43	M62A	Y	-0.009	-0.009	0	0
44	M63A	Y	-0.009	-0.009	0	0
45	M62B	Y	-0.017	-0.017	0	0
46	M59C	Y	-0.017	-0.017	0	0
47	M60A	Y	-0.017	-0.017	0	0
48	M67	Y	-0.009	-0.009	0	0
49	M68	Y	-0.009	-0.009	0	0
50	M69B	Y	-0.009	-0.009	0	0
51	M70B	Y	-0.009	-0.009	0	0
52	M85	Y	-0.009	-0.009	0	0
53	M86	Y	-0.009	-0.009	0	0
54	M87	Y	-0.009	-0.009	0	0
55	M88	Y	-0.009	-0.009	0	0
56	M85A	Y	-0.016	-0.016	0	0
57	M86A	Y	-0.016	-0.016	0	0



Member Distributed Loads (BLC 28 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[in, %]	End Location[in, %]
1	22	Y	-0.001	-0.005	0	26.155
2	22	Y	-0.005	-0.009	26.155	52.309
3	23	Y	-0.001	-0.005	0	26.155
4	23	Y	-0.005	-0.009	26.155	52.309
5	M56	Y	-0.009	-0.009	19.246	31
6	M57	Y	-0.009	-0.009	0	11.754
7	M85A	Y	-0.011	-0.011	12.878	33.63
8	7	Y	-0.001	-0.005	0	26.155
9	7	Y	-0.005	-0.009	26.155	52.309
10	8	Y	-0.001	-0.005	0	26.155
11	8	Y	-0.005	-0.009	26.155	52.309
12	13	Y	-0.011	-0.011	12.878	33.63
13	M58	Y	-0.009	-0.009	19.246	31
14	M59	Y	-0.009	-0.009	0	11.754
15	37	Y	-0.001	-0.005	0	26.155
16	37	Y	-0.005	-0.009	26.155	52.309
17	38	Y	-0.001	-0.005	0	26.155
18	38	Y	-0.005	-0.009	26.155	52.309
19	M62	Y	-0.009	-0.009	19.252	31
20	M63	Y	-0.009	-0.009	0	11.754
21	M86A	Y	-0.011	-0.011	12.842	33.642

Member Distributed Loads (BLC 29 : BLC 8 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[in, %]	End Location[in, %]
1	22	Y	-0.001	-0.004	0	26.155
2	22	Y	-0.004	-0.007	26.155	52.309
3	23	Y	-0.001	-0.004	0	26.155
4	23	Y	-0.004	-0.007	26.155	52.309
5	M56	Y	-0.008	-0.008	19.252	31
6	M57	Y	-0.008	-0.008	0	11.754
7	M85A	Y	-0.009	-0.009	12.842	33.642
8	7	Y	-0.001	-0.004	0	26.155
9	7	Y	-0.004	-0.007	26.155	52.309
10	8	Y	-0.0009991	-0.004	0	26.155
11	8	Y	-0.004	-0.007	26.155	52.309
12	13	Y	-0.009	-0.009	12.842	33.642
13	M58	Y	-0.007	-0.007	19.246	31
14	M59	Y	-0.007	-0.007	0	11.748
15	37	Y	-0.001	-0.004	0	26.155
16	37	Y	-0.004	-0.007	26.155	52.309
17	38	Y	-0.0009987	-0.004	0	26.155
18	38	Y	-0.004	-0.007	26.155	52.309
19	M62	Y	-0.007	-0.007	19.252	31
20	M63	Y	-0.007	-0.007	0	11.754
21	M86A	Y	-0.009	-0.009	12.841	33.642

Member Area Loads (BLC 1 : Dead)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N19	N18	N20		Y	Two Way	-.01
2	N8	N7	N9		Y	Two Way	-.01
3	N31	N30	N29		Y	Two Way	-.01

Member Area Loads (BLC 8 : Ice)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
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Member Area Loads (BLC 8 : Ice) (Continued)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N19	N18	N20		Y	Two Way	-.008
2	N8	N7	N9		Y	Two Way	-.008
3	N31	N30	N29		Y	Two Way	-.008

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/i...]
1	N96	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/i...]
1	N147A	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/i...]
1	N148A	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/i...]
1	N102A	L	Y	-.25

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	N11	max	1.208	5	3.684	38	5.088	2	8.815	26	1.247	11	1.031	23
2		min	-1.206	11	-.759	8	-5.105	20	-3.806	8	-1.243	5	-1.011	5
3	N149	max	3.378	6	3.625	42	2.622	25	1.908	13	1.541	3	1.854	12
4		min	-3.396	24	-.325	12	-2.613	7	-4.396	31	-1.53	9	-7.371	42
5	N151	max	3.368	16	3.609	46	2.749	15	1.918	3	1.565	7	7.291	46
6		min	-3.354	10	-.332	4	-2.737	9	-4.489	33	-1.564	13	-1.863	4
7	Totals:	max	7.252	5	9.917	41	10.072	14						
8		min	-7.252	11	2.814	11	-10.072	20						

Envelope AISC 13th(360-05): LRFD Steel Code Checks

Member	Shape	Code Check	Loc[in]	LC	Shear C...	Loc[in]	Dir	LC	phi*...	phi*...	phi*...	phi*...	Eqn
1	3	PL 3/8x6	.220	0	24	.482	0	y	22	72.57	73.8...	.586	9.234 ... H1-...
2	5	PL 3/8x6	.221	0	15	.493	0	y	18	72.57	73.8...	.586	9.234 ... H1-...
3	7	L2x2x3	.410	0	14	.017	0	y	41	9.02	23.3...	.558	1.222 ... H2-1
4	8	L2x2x3	.403	0	14	.020	0	z	47	9.02	23.3...	.558	1.222 ... H2-1
5	11	PL 1/2x6	.017	0	15	.407	3.473	y	22	94.2...	97.2	1.012	12.15 ... H1-...
6	12	PL 1/2x6	.026	0	18	.414	3.473	y	18	94.2...	97.2	1.012	12.15 ... H1-...
7	13	HSS4X4X4	.554	68.375	26	.121	68.375	y	24	121....	139....	16.1...	16.1... 3 H1-...
8	18	PL 3/8x6	.250	0	21	.616	0	y	14	72.57	73.8...	.586	9.234 ... H1-...
9	20	PL 3/8x6	.283	0	20	.568	0	y	21	72.57	73.8...	.586	9.234 ... H1-...
10	22	L2x2x3	.333	0	18	.018	0	y	45	9.02	23.3...	.558	1.223 ... H2-1
11	23	L2x2x3	.353	52.309	19	.020	0	z	39	9.02	23.3...	.558	1.239 3 H2-1
12	26	PL 1/2x6	.028	0	20	.552	3.473	y	14	94.2...	97.2	1.012	12.15 ... H1-...
13	27	PL 1/2x6	.035	0	21	.480	3.473	y	21	94.2...	97.2	1.012	12.15 ... H1-...
14	33	PL 3/8x6	.305	0	20	.580	0	y	19	72.57	73.8...	.586	9.234 ... H1-...
15	35	PL 3/8x6	.230	0	19	.621	0	y	14	72.57	73.8...	.586	9.234 ... H1-...
16	37	L2x2x3	.379	52.309	21	.018	0	y	49	9.02	23.3...	.558	1.219 ... H2-1
17	38	L2x2x3	.336	0	22	.020	0	z	44	9.02	23.3...	.558	1.223 ... H2-1
18	41	PL 1/2x6	.021	0	25	.490	3.473	y	19	94.2...	97.2	1.012	12.15 ... H1-...



Envelope AISC 13th(360-05): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[in]	LC	Shear C...	Loc[in]	Dir	LC	phi*...	phi*...	phi*...	phi*...	Eqn	
19	42	PL 1/2x6	.040	0	14	.557	3.473	y	14	94.2...	97.2	1.012	12.15	H1-...
20	67	L2.5x2.5x4	.471	0	14	.213	12.234	z	25	37.27	38.5...	1.114	2.537	H2-1
21	68	L2.5x2.5x4	.473	0	14	.213	0	y	21	37.27	38.5...	1.114	2.537	H2-1
22	69	L2.5x2.5x4	.444	12.232	14	.139	12.232	z	17	37.2...	38.5...	1.114	2.537	H2-1
23	M70	PIPE 3.0	.173	96.875	20	.155	96.875		21	28.2...	65.2...	5.749	5.749	H1-...
24	M71	PIPE 3.0	.180	6.25	14	.162	96.875		25	28.2...	65.2...	5.749	5.749	H1-...
25	M72	PIPE 3.0	.185	143.75	14	.158	53.125		15	28.2...	65.2...	5.749	5.749	H1-...
26	M64	PIPE 2.0	.481	4.688	2	.389	3.125		19	6.295	32.13	1.872	1.872	3 H3-6
27	M65	PIPE 2.0	.459	56.25	14	.395	146.875		21	6.295	32.13	1.872	1.872	3 H1-...
28	M66	PIPE 2.0	.472	54.688	20	.408	146.875		25	6.295	32.13	1.872	1.872	3 H3-6
29	M65A	PIPE 2.0	.512	69	19	.277	69		20	14.9...	32.13	1.872	1.872	3 H3-6
30	M69	PIPE 2.0	.522	27	21	.260	27		20	14.9...	32.13	1.872	1.872	3 H3-6
31	M62	HSS4X4X4	.255	31	47	.100	31	y	46	135...	139...	16.1...	16.1...	H1-...
32	M63	HSS4X4X4	.256	0	45	.099	0	y	46	135...	139...	16.1...	16.1...	H1-...
33	M56	HSS4X4X4	.260	31	43	.100	31	y	42	135...	139...	16.1...	16.1...	H1-...
34	M57	HSS4X4X4	.252	0	41	.099	0	y	42	135...	139...	16.1...	16.1...	H1-...
35	M58	HSS4X4X4	.258	31	49	.101	31	y	38	135...	139...	16.1...	16.1...	H1-...
36	M59	HSS4X4X4	.261	0	39	.102	0	y	38	135...	139...	16.1...	16.1...	H1-...
37	M54	PL 3/8x6	.196	0	15	.598	0	y	14	67.8...	73.8...	.586	9.234	H1-...
38	M55	PL 3/8x6	.183	0	25	.603	0	y	14	67.8...	73.8...	.586	9.234	H1-...
39	M56A	PL 3/8x6	.206	0	20	.525	0	y	19	67.8...	73.8...	.586	9.234	H1-...
40	M57A	PL 3/8x6	.141	0	16	.475	0	y	18	67.8...	73.8...	.586	9.234	H1-...
41	M58A	PL 3/8x6	.143	0	24	.464	0	y	22	67.8...	73.8...	.586	9.234	H1-...
42	M59A	PL 3/8x6	.192	0	20	.514	0	y	21	67.8...	73.8...	.586	9.234	H1-...
43	M62A	PIPE 2.0	.611	69	19	.151	69		20	14.9...	32.13	1.872	1.872	H1-...
44	M63A	PIPE 2.0	.599	69	15	.159	69		20	14.9...	32.13	1.872	1.872	H1-...
45	M62B	PL 1/2x6	.210	6	14	.338	0	y	14	67.5...	97.2	1.012	12.15	H1-...
46	M59C	PL 1/2x6	.208	6	20	.347	12	y	14	67.5...	97.2	1.012	12.15	H1-...
47	M60A	PL 1/2x6	.189	6	21	.267	12	y	18	67.5...	97.2	1.012	12.15	H1-...
48	M67	PIPE 2.0	.470	27	21	.190	69		24	14.9...	32.13	1.872	1.872	3 H1-...
49	M68	PIPE 2.0	.563	69	14	.247	69		25	14.9...	32.13	1.872	1.872	3 H1-...
50	M69B	PIPE 2.0	.693	69	21	.154	69		20	14.9...	32.13	1.872	1.872	H1-...
51	M70B	PIPE 2.0	.746	69	14	.121	69		25	14.9...	32.13	1.872	1.872	H1-...
52	M85	PIPE 2.0	.591	27	14	.248	27		15	14.9...	32.13	1.872	1.872	3 H1-...
53	M86	PIPE 2.0	.441	69	19	.176	69		17	14.9...	32.13	1.872	1.872	3 H1-...
54	M87	PIPE 2.0	.750	69	14	.114	69		15	14.9...	32.13	1.872	1.872	H1-...
55	M88	PIPE 2.0	.678	69	19	.154	69		14	14.9...	32.13	1.872	1.872	H1-...
56	M85A	HSS4X4X4	.541	68.375	31	.158	68.375	y	20	121...	139...	16.1...	16.1...	3 H1-...
57	M86A	HSS4X4X4	.544	68.375	33	.160	68.375	y	20	121...	139...	16.1...	16.1...	3 H1-...



Town of Newtown, CT

Property Listing Report

Map Block Lot

2-9-1.23

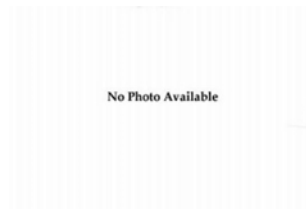
Account

00141100

Property Information

Property Location	25 MERIDIAN RIDGE DRIVE
Owner	HW 1945 LLC
Co-Owner	CHARTER GROUP
Mailing Address	162 DANBURY ROAD RIDGEFIELD CT 06877
Land Use	1300 Vacant Lnd
Land Class	R
Zoning Code	R-1
Census Tract	23
Sub Lot	
Neighborhood	110
Acreage	1.88
Utilities	Well,Septic
Lot Setting/Desc	
Survey Map	
TC Survey Numbers	

Photo



Sketch

Primary Construction Details

Year Built	
Stories	
Building Style	
Building Use	
Building Condition	
Floors	
Total Rooms	

Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	
Roof Cover	

Exterior Walls	
Interior Walls	
Heating Type	
Heating Fuel	
AC Type	
Gross Bldg Area	
Total Living Area	

Report Created On

3/22/2019



Town of Newtown, CT

Property Listing Report

Map Block Lot

2-9-1.23

Account

00141100

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

Item	Appraised	Assessed
Buildings		
Extras		
Outbuildings		
Land		
Total		

Outbuilding and Extra Items

Type	Description

Sub Areas

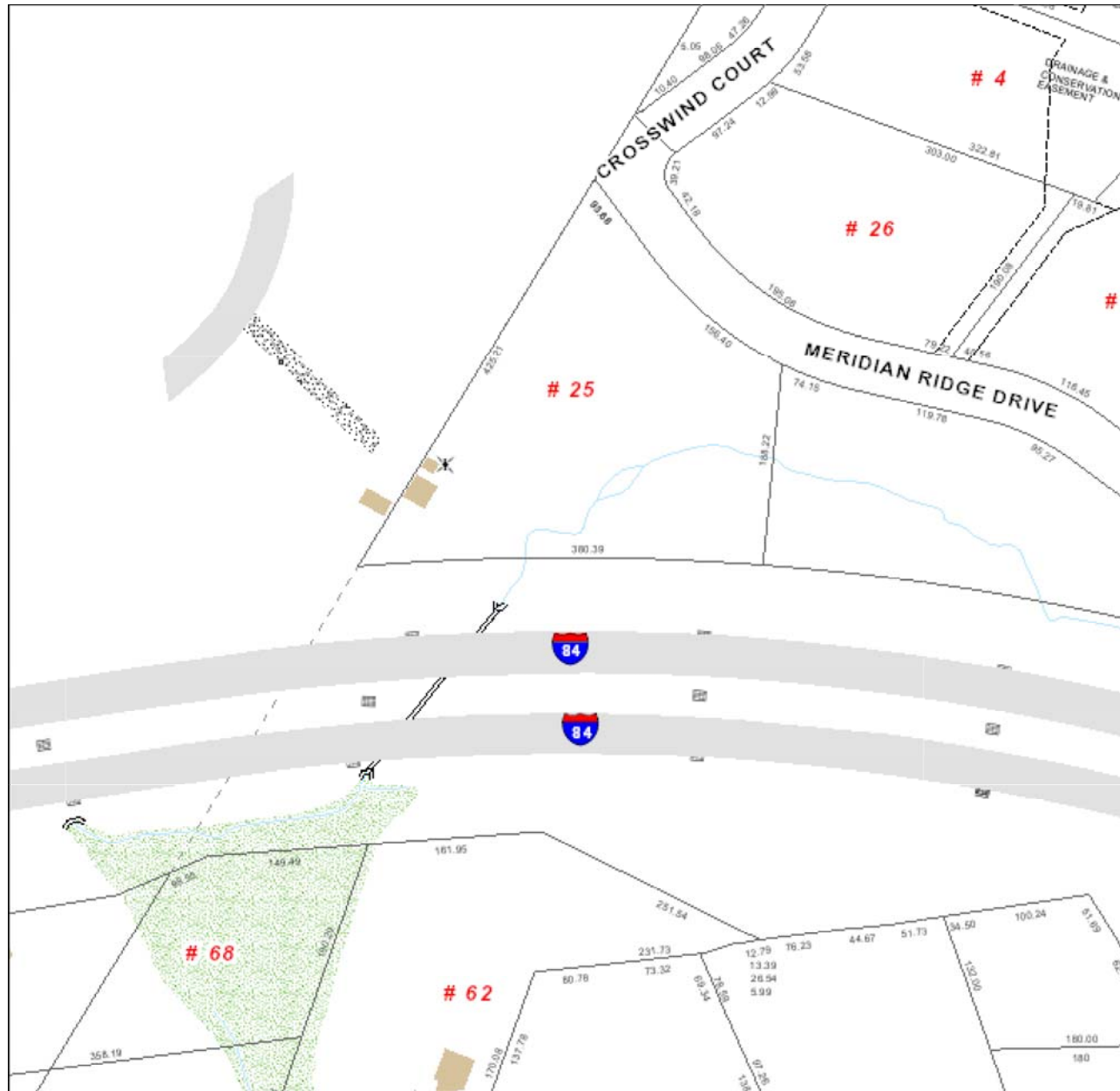
Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area		0

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
HW 1945 LLC	0713/0594	12/25/2009	



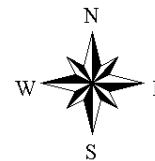
Date Printed: 3/22/2019



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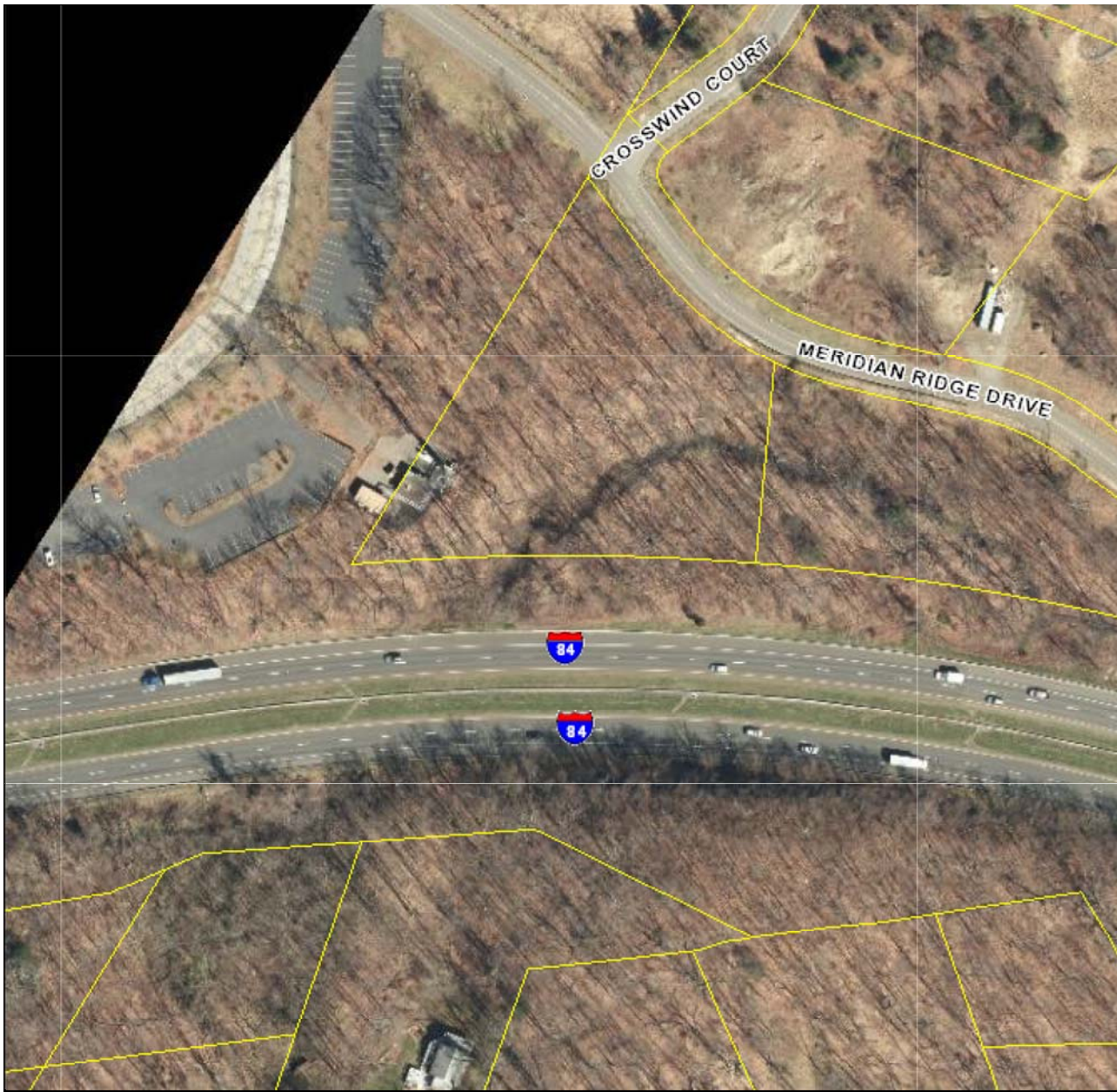
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Approximate Scale: 1 inch = 150 feet





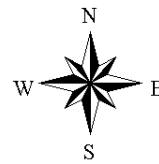
Date Printed: 3/22/2019




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Mailed from 06268 062S0000000314

PRIORITY MAIL 1-DAY™

Expected Delivery Date: 03/25/19

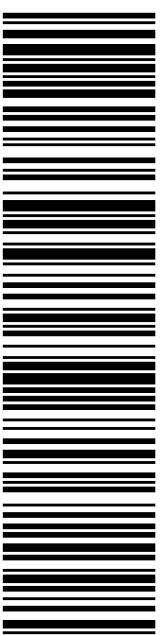
MARK J ROBERTS
 QC DEVELOPMENT
 PO BOX 916
 STORRS CT 06268-0916

0024

R006

SHIP TO: MR. DANIEL ROSENTHAL
 TOWN OF NEWTOWN
 3 PRIMROSE ST
 CC: MR GEORGE BENSON - DIR OF PLANNIN
 NEWTOWN CT 06470-5307

USPS TRACKING #



9405 5036 9930 0455 7001 58

Electronic Rate Approved #038555749



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2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
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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 0455 7001 58

Trans. #: 459828665	Priority Mail® Postage: \$7.35
Print Date: 03/22/2019	Total: \$7.35
Ship Date: 03/23/2019	
Expected Delivery Date: 03/25/2019	


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

To: MR. DANIEL ROSENTHAL
 TOWN OF NEWTOWN
 3 PRIMROSE ST
 CC: MR GEORGE BENSON - DIR OF PLANNIN
 NEWTOWN CT 06470-5307

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03/23/2019

Mailed from 06268 062S0000000315

PRIORITY MAIL 2-DAY™

Expected Delivery Date: 03/25/19


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

0004

C013

SHIP TO:
 HW 1945 LLC
 162 DANBURY RD
 RIDGEFIELD CT 06877-3234

USPS TRACKING #



9405 5036 9930 0455 7001 65

Electronic Rate Approved #038555749



Cut on dotted line.

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2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
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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 0455 7001 65

Trans. #: 459828665	Priority Mail® Postage: \$7.35
Print Date: 03/22/2019	Total: \$7.35
Ship Date: 03/23/2019	
Expected Delivery Date: 03/25/2019	

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

To: HW 1945 LLC
 162 DANBURY RD
 RIDGEFIELD CT 06877-3234

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