

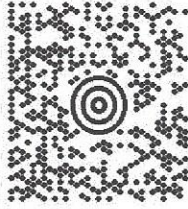
1 OF 1

0.0 LBS LTR

JENNIFER ILLADES
978-944-1804
CENTERLINE COMMUNICATIONS, LLC
750 WEST CENTER STREET
WEST BRIDGEWATER MA 02379

SHIP TO:

TOWN OF WINCHESTER
(860) 379-2713
ALTHEA CANDY PEREZ, MAYOR
338 MAIN STREET
WINCHESTER TOWN HALL
WINSTED CT 06098



CT 067 9-02



UPS 2ND DAY AIR

2

TRACKING #: 1Z 9Y4 503 02 3325 6188



BILLING: P/P

Reference No.1: CT1071 - CSC to Althea Candy Perez

X01 1.8.05.09 NY45 95.0A 04/2018





Proof of Delivery

Close Window

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

| | |
|---------------------------|-----------------------|
| Tracking Number: | 1Z9Y45030233256188 |
| Service: | UPS 2nd Day Air® |
| Shipped/Billed On: | 06/13/2018 |
| Delivered On: | 06/18/2018 10:43 A.M. |
| Delivered To: | WINSTED, CT, US |
| Received By: | BESSETTE |
| Left At: | Office |

Thank you for giving us this opportunity to serve you.

Sincerely,

UPS

Tracking results provided by UPS: 06/22/2018 9:02 A.M. ET

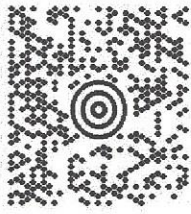
JENNIFER ILLADES

0.0 LBS LTR 1 OF 1

978-944-1804
CENTERLINE COMMUNICATIONS, LLC
750 WEST CENTER STREET
WEST BRIDGEWATER, MA 02379

SHIP TO:

TOWN OF WINCHESTER
(860) 738-6962
ROBERT GEIGER, TOWN MANAGER
338 MAIN STREET
WINCHESTER TOWN HALL
WINSTED CT 06098



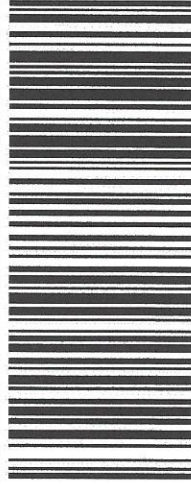
CT 067 9-02



UPS 2ND DAY AIR

2

TRACKING #: 1Z 9Y4 503 02 3899 5577



BILLING: P/P

Reference No.1: CT1071 - CSC to Robert Geiger

XOL 18.03.09 NV45 99.0A 04/2018



6/22/2018

Tracking: UPS



Proof of Delivery

Close Window

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

| | |
|---------------------------|-----------------------|
| Tracking Number: | 1Z9Y45030238995577 |
| Service: | UPS 2nd Day Air® |
| Shipped/Billed On: | 06/13/2018 |
| Delivered On: | 06/15/2018 12:00 P.M. |
| Delivered To: | WINSTED, CT, US |
| Received By: | CAROLE |
| Left At: | Front Desk |

Thank you for giving us this opportunity to serve you.

Sincerely,

UPS

Tracking results provided by UPS: 06/22/2018 9:04 A.M. ET

JENNIFER ILLADES

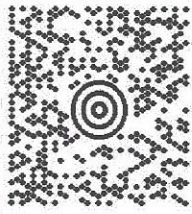
0.0 LBS LTR

978-944-1804
CENTERLINE COMMUNICATIONS, LLC
750 WEST CENTER STREET
WEST BRIDGEWATER, MA 02379

1 OF 1

SHIP TO:

PLANNING AND COMMUNITY DEVELOPMENT
860-738-6593
STEVEN SADLOWSKI, DIRECTOR
338 MAIN STREET
WINCHESTER TOWN HALL
WINSTED CT 06098



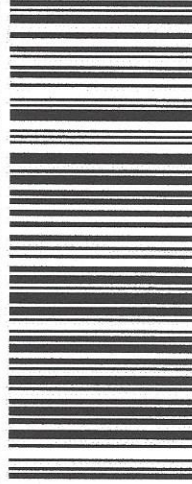
CT 067 9-02



UPS 2ND DAY AIR

2

TRACKING #: 1Z 9Y4 503 02 2262 7968



BILLING: P/P

Reference No.1: CT1071 - CSC to Steven Sadlowski

X03.1.8.03.09 NV45 99.0A 04/2018





Proof of Delivery

Close Window

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

| | |
|---------------------------|-----------------------|
| Tracking Number: | 1Z9Y45030222627968 |
| Service: | UPS 2nd Day Air® |
| Shipped/Billed On: | 06/13/2018 |
| Delivered On: | 06/15/2018 12:00 P.M. |
| Delivered To: | WINSTED, CT, US |
| Received By: | CAROLE |
| Left At: | Front Desk |

Thank you for giving us this opportunity to serve you.

Sincerely,

UPS

Tracking results provided by UPS: 06/22/2018 9:01 A.M. ET

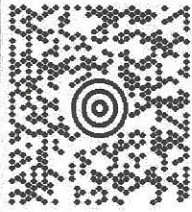
JENNIFER ILLADES
978-944-1804
CENTERLINE COMMUNICATIONS, LLC
750 WEST CENTER STREET
WEST BRIDGEWATER MA 02379

0.0 LBS LTR

1 OF 1

SHIP TO:

RYAN TIERNEY
781-428-7250
AMERICAN TOWER CORPORATION
10 PRESIDENTIAL WAY
WOBURN MA 01801-1053



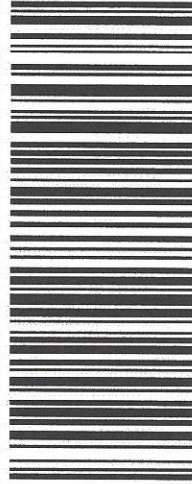
MA 018 9-04



UPS 2ND DAY AIR

2

TRACKING #: 1Z 9Y4 503 02 2630 9796



BILLING: P/P

Reference No.1: CT1071 - CSC to ATC

XDL 18.05.09 NY45 99.0A 04/2018



TM



Proof of Delivery

Close Window

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

| | |
|---------------------------|-----------------------|
| Tracking Number: | 1Z9Y45030226309796 |
| Service: | UPS 2nd Day Air® |
| Shipped/Billed On: | 06/13/2018 |
| Delivered On: | 06/15/2018 11:20 A.M. |
| Delivered To: | WOBURN, MA, US |
| Received By: | ANCRI |
| Left At: | Front Desk |

Thank you for giving us this opportunity to serve you.

Sincerely,

UPS

Tracking results provided by UPS: 06/22/2018 9:03 A.M. ET

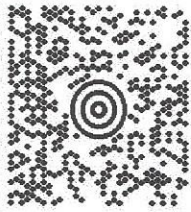
JENNIFER ILIADES

0.0 LBS LTR 1 OF 1

978-944-1804
CENTERLINE COMMUNICATIONS, LLC
750 WEST CENTER STREET
WEST BRIDGewater MA 02379

SHIP TO:

RYAN TIERNEY, AMERICAN TOWER
781-428-7250
W STOW REV TRUST C/O AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBBURN MA 01801



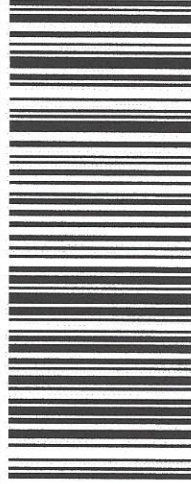
MA 018 9-04



UPS 2ND DAY AIR

2

TRACKING #: 1Z 9Y4 503 02 0533 9767



BILLING: P/P

Reference No.1: CT1071 - CSC to W P Stow Rev Trust

X01.18.03.09 NV45 99.0A 04/2018



6/22/2018

Tracking: UPS



Proof of Delivery

Close Window

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

| | |
|---------------------------|-----------------------|
| Tracking Number: | 1Z9Y45030205339767 |
| Service: | UPS 2nd Day Air® |
| Shipped/Billed On: | 06/13/2018 |
| Delivered On: | 06/15/2018 11:20 A.M. |
| Delivered To: | WOBURN, MA, US |
| Received By: | ANCRI |
| Left At: | Front Desk |

Thank you for giving us this opportunity to serve you.

Sincerely,

UPS

Tracking results provided by UPS: 06/22/2018 9:03 A.M. ET

June 13, 2018

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

Regarding: Notice of Exempt Modification – AT&T Site CT1071
Address: 108 Oakdale Avenue, a/k/a 15 Oakdale Avenue, Winchester, CT 06098

Dear Ms. Bachman:

New Cingular Wireless, PCS, LLC (“AT&T”) currently maintains a wireless telecommunications facility on an existing 180-foot monopole at the above-referenced address, latitude 41.9216861, longitude -73.0494989. Said monopole is owned and operated by American Tower Corporation.

AT&T desires to modify its existing telecommunications facility by swapping (3) antennas, adding (1) surge arrestor and accompanying feedlines and adding (3) remote radio heads. The centerline height of the existing antennas is and will remain at 184 feet.

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Althea Candy Perez, Mayor of the Town of Winchester, Robert Geiger, Town Manager of the Town of Winchester, Steven Sadlowski, Director of Planning and Community Development of the Town of Winchester, American Tower Corporation as tower owner and William P. Stow Revocable Trust, c/o American Tower Corporation, as property 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). Specifically:

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require an extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety

standard. *Please see the RF emissions calculation for AT&T's modified facility enclosed herewith.*

5. The proposed modifications will not cause an ineligible change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading. *Please see the structural analysis dated October 24, 2017 by American Tower Corporation enclosed herewith.*

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).

Sincerely,



Jennifer Iliades
Site Acquisition Consultant
Centerline Communications, LLC
750 West Center Street, Suite 301
West Bridgewater, MA 02379
jiliades@clinellc.com

Enclosures: Exhibit 1 – Field Card and GIS Map
Exhibit 2 – Construction Drawings
Exhibit 3 – Structural Analysis
Exhibit 4 – RF Emissions Analysis Report Evaluation

cc: Althea Candy Perez, Mayor, Town of Winchester
Robert Geiger, Town Manager, Town of Winchester
Steven Sadlowski, Director of Planning and Community Development, Town of Winchester
American Tower Corporation, Tower Owner
William P. Stow Revocable Trust, c/o American Tower Corporation, Property Owner

EXHIBIT 1

108 OAKDALE AVE

Location 108 OAKDALE AVE

Mblu 028/ 151/ 002-1/ /

Acct# 103466

Owner STOW WILLIAM P
REVOCABLE TRUST

Assessment \$94,850

Appraisal \$135,500

PID 4991

Building Count 1

Current Value

| Appraisal | | | |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land | Total |
| 2017 | \$25,900 | \$109,600 | \$135,500 |

| Assessment | | | |
|----------------|--------------|----------|----------|
| Valuation Year | Improvements | Land | Total |
| 2017 | \$18,130 | \$76,720 | \$94,850 |

Owner of Record

Owner STOW WILLIAM P REVOCABLE TRUST
Co-Owner C/O AMERICAN TOWER #302506

Sale Price \$0
Certificate
Book & Page 411/ 779
Sale Date 03/12/2013
Instrument 29

Ownership History

| Ownership History | | | | | |
|--------------------------------|------------|-------------|-------------|------------|------------|
| Owner | Sale Price | Certificate | Book & Page | Instrument | Sale Date |
| STOW WILLIAM P REVOCABLE TRUST | \$0 | | 411/ 779 | 29 | 03/12/2013 |
| STOW WILLIAM P & RICHARD D | \$0 | | 00260/0171 | | 11/16/1995 |

Building Information

Building 1 : Section 1

Year Built: 2004
Living Area: 360
Replacement Cost
Less Depreciation: \$13,500

| Building Attributes | |
|---------------------|-------------|
| Field | Description |

| | |
|------------------|----------------|
| STYLE | Warehse Prefab |
| MODEL | Ind/Comm |
| Stories: | 1 |
| Occupancy | 1 |
| Exterior Wall 1 | Pre-cast Concr |
| Exterior Wall 2 | |
| Roof Structure | Flat |
| Roof Cover | Metal/Tin |
| Interior Wall 1 | Minimum |
| Interior Wall 2 | |
| Interior Floor 1 | Concrete Slab |
| Interior Floor 2 | |
| Heating Fuel | Gas/Oil |
| Heating Type | Hot Air-no Duc |
| AC Type | None |
| Bldg Use | Tele Tower |
| Heat/AC | NONE |
| Frame Type | MASONRY |
| Baths/Plumbing | NONE |
| Ceiling/Wall | NONE |
| Rooms/Prtns | LIGHT |
| Wall Height | 12 |

Building Photo



(<http://images.vgsi.com/photos/WinchesterCTPhotos//\01\00\49>,

Building Layout



(<http://images.vgsi.com/photos/WinchesterCTPhotos//Sketches/>

| Building Sub-Areas (sq ft) | | | Legend |
|----------------------------|-------------|------------|-------------|
| Code | Description | Gross Area | Living Area |
| BAS | First Floor | 360 | 360 |
| SLB | Slab | 360 | 0 |
| | | 720 | 360 |

Extra Features

| Extra Features | Legend |
|----------------------------|--------|
| No Data for Extra Features | |

Land

Land Use

Use Code 4310
Description Tele Tower

Land Line Valuation

Size (Acres) 3.39
Depth

Zone RR
Alt Land Appr No
Category

Assessed Value \$76,720
Appraised Value \$109,600

Outbuildings

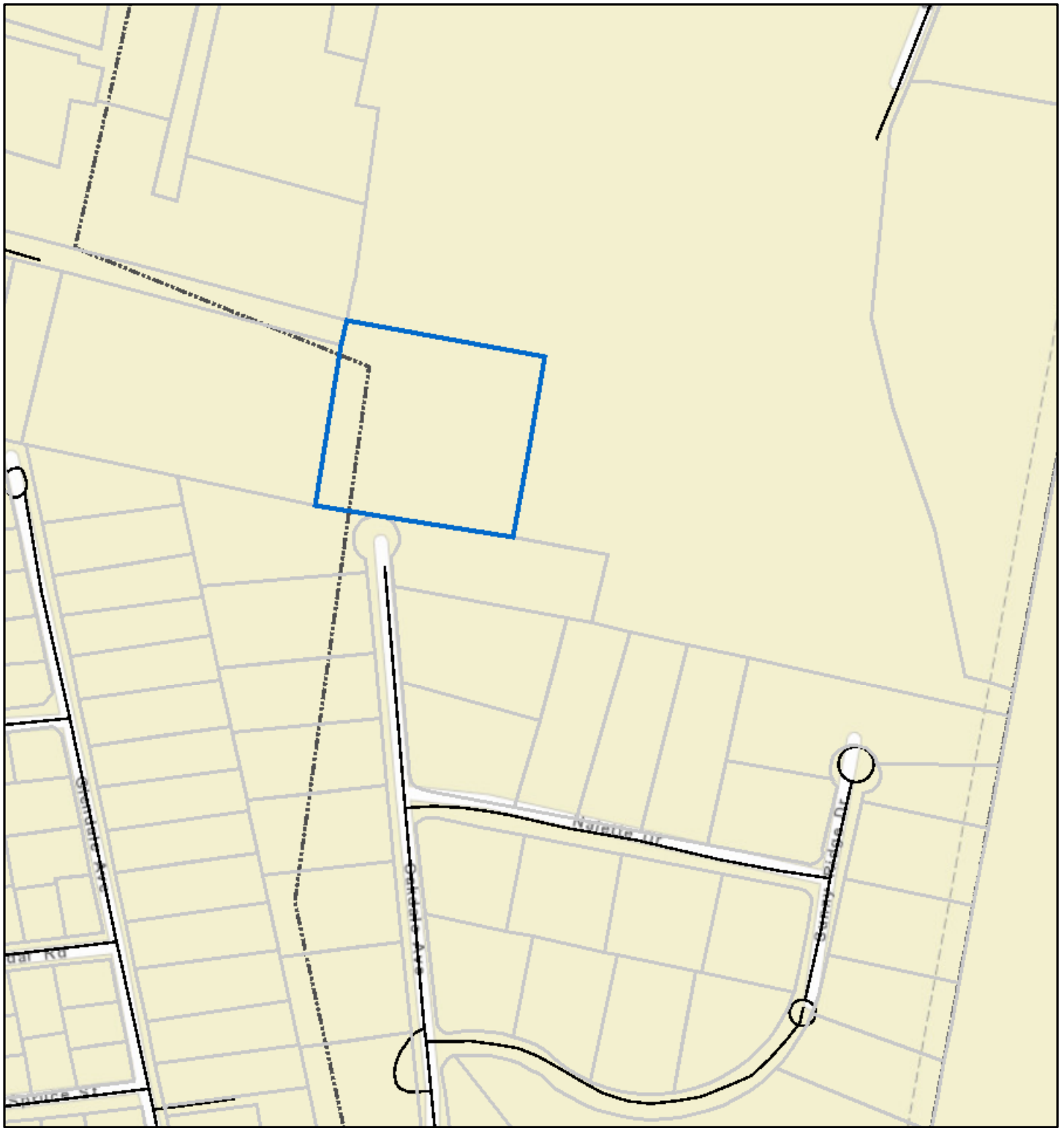
| Outbuildings | | | | | | Legend |
|---------------------|--------------------|-----------------|------------------------|-------------|--------------|---------------|
| Code | Description | Sub Code | Sub Description | Size | Value | Bldg # |
| SHD8 | Shd Com Mas | | | 252 S.F. | \$6,200 | 1 |
| SHD8 | Shd Com Mas | | | 252 S.F. | \$6,200 | 1 |

Valuation History

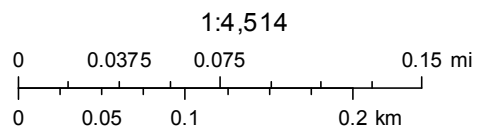
| Appraisal | | | |
|-----------------------|---------------------|-------------|--------------|
| Valuation Year | Improvements | Land | Total |
| 2017 | \$25,900 | \$109,600 | \$135,500 |
| 2016 | \$19,900 | \$109,600 | \$129,500 |
| 2012 | \$13,700 | \$109,600 | \$123,300 |

| Assessment | | | |
|-----------------------|---------------------|-------------|--------------|
| Valuation Year | Improvements | Land | Total |
| 2017 | \$18,130 | \$76,720 | \$94,850 |
| 2016 | \$13,930 | \$76,720 | \$90,650 |
| 2012 | \$9,590 | \$76,720 | \$86,310 |

(c) 2016 Vision Government Solutions, Inc. All rights reserved.



June 13, 2018



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

EXHIBIT 2

PROJECT INFORMATION

SCOPE OF WORK: REPLACE (3) EXISTING ANTENNAS WITH (3) NEW ANTENNAS ON EXISTING MONOPOLE. INSTALL (5) RRU & ADD (1) DC FIBER SQUID. REPLACE (6) DIPLEXERS WITH LOW BAND COMBINERS. INSTALL FIBER, POWER AND SUPPORTING EQUIPMENT ON EXISTING TOWER AND INSIDE EXISTING SHELTER.

SITE ADDRESS: 15 OAKDALE AVENUE
WINSTED, CT 06098

LATITUDE: 41° 55' 18.069" N (NAD 83)*
LONGITUDE: 73° 02' 58.196" W (NAD 83)*
*PER EXISTING AT&T PLANS

CURRENT USE: TELECOMMUNICATIONS FACILITY
PROPOSED USE: TELECOMMUNICATIONS FACILITY

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



at&t
Mobility

SITE NAME: WINSTED/WINCHESTER 3C/4C
SITE NUMBER: CT1071

VICINITY MAP

APPLICABLE BUILDING CODES AND STANDARDS

DIRECTIONS: HEAD NORTHEAST ON ENTERPRISE DR TOWARD CAPITAL BLVD. TURN LEFT ONTO CAPITAL BLVD. USE THE LEFT 2 LANES TO TURN LEFT ONTO STATE HWY 411. TURN LEFT TO MERGE ONTO I-91 S. TAKE EXIT 22N TO MERGE ONTO CT-9 N TOWARD NEW BRITAIN. USE THE LEFT LANE TO TAKE EXIT 32 FOR I-84 W TOWARD WATERBURY. USE THE RIGHT 2 LANES TO TAKE EXIT 39 TOWARD FARMINGTON/CT-4. CONTINUE ONTO STATE HWY 508. STATE HWY 508 TURNS SLIGHTLY RIGHT AND BECOMES CT-4 W. SLIGHT RIGHT TO STAY ON CT-4 W. CONTINUE ONTO CT-179 N. TURN RIGHT ONTO BRIDGE ST. TURN LEFT ONTO CT-179 N/RIVER RD. USE THE LEFT 2 LANES TO TURN LEFT ONTO US-44 W. TURN RIGHT AT W WEST HILL RD. TURN LEFT ONTO OLD NEW HARTFORD RD. TURN LEFT ONTO OAKDALE AVE. SITE WILL BE ON THE RIGHT.

CONTRACTOR'S WORK SHALL COMPLY WITH PROJECT STANDARD NOTES, SYMBOLS AND DETAILS (SEE DRAWING INDEX FOR STANDARD NOTES AND DETAILS INCLUDED WITH TYPICAL DRAWING PACKAGE). CONTRACTOR WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
INTERNATIONAL BUILDING CODE (IBC 2012)

ELECTRICAL CODE:
NATIONAL ELECTRICAL CODE (NEC 2014)

CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES: TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS

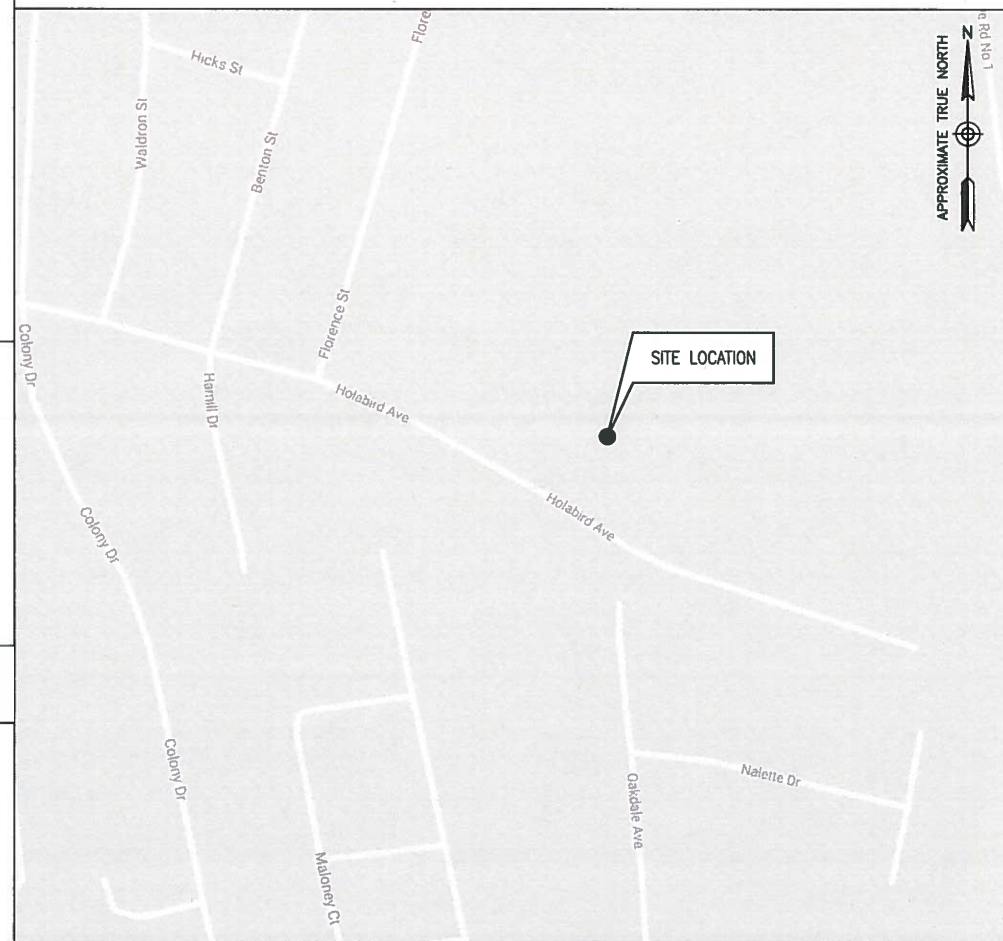
ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

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

DRAWING INDEX

REV

| | | |
|-----|--|---|
| T01 | TITLE SHEET | 0 |
| G01 | GENERAL NOTES | 0 |
| C01 | PROPOSED SITE PLAN & SHELTER PLAN | 0 |
| C02 | PROPOSED ELEVATION & CONSTRUCTION DETAILS | 0 |
| C03 | FINAL EQUIPMENT CONFIGURATION & RRU DETAIL | 0 |
| C04 | EQUIPMENT PLUMBING DIAGRAM | 0 |
| E01 | GROUNDING DETAILS | 0 |



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.

STRUCTURAL NOTE:

- AS REQUIRED UNDER TIA/EIA 222G - STANDARD, CENTERLINE COMMUNICATIONS SHALL PROVIDE A STRUCTURAL ANALYSIS OF THE TOWER PREPARED BY A LICENSED CONNECTICUT STRUCTURAL ENGINEER CERTIFYING THAT, THE EXISTING TOWER AND ANY REQUIRED IMPROVEMENTS AND REINFORCEMENTS HAVE SUFFICIENT CAPACITY TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, SUPPORTS AND APPURTENANCES AND COMPLIES WITH THE CURRENT CONNECTICUT STATE BUILDING CODE AND EIA/TIA CRITERIA. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT ANY IMPROVEMENTS AND REINFORCEMENTS REQUIRED BY THE STRUCTURAL ANALYSIS CERTIFICATION ARE PROPERLY INSTALLED PRIOR TO THE ADDITION OF ANTENNAS, SUPPORTS AND APPURTENANCES PROPOSED ON THESE DRAWINGS OR OTHERWISE NOTED IN THE STRUCTURAL ANALYSIS.

CONTACT INFORMATION

| CONTACT | CONTACT | COMPANY | PHONE NO. |
|--------------|------------------------|---------------------------|----------------|
| ENGINEERING: | BENJAMIN REVETTE, P.E. | DEWBERRY ENGINEERS INC. | (617) 695-3400 |
| SAC: | MEREDITH PAYNTER | CENTERLINE COMMUNICATIONS | (508) 673-9116 |

Dewberry®
Dewberry Engineers Inc.
280 SUMMER STREET
10TH FLOOR
BOSTON, MA 02210
PHONE: 617.695.3400
FAX: 617.695.3310

CENTERLINE
COMMUNICATIONS
95 RYAN DRIVE, SUITE 1
RAYNHAM, MA 02767

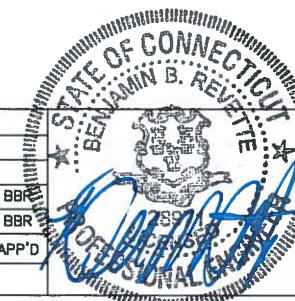
at&t
Mobility
500 ENTERPRISE DRIVE
SUITE 3A
ROCKY HILL, CT 06067

WINSTED/WINCHESTER 3C/4C
SITE NO. CT1071

15 OAKDALE AVENUE
WINSTED, CT 06098

| NO. | DATE | REVISIONS | BY | CHK | APP'D |
|-----|----------|-------------------------|-----|-----|-------|
| 0 | 01/02/17 | ISSUED FOR CONSTRUCTION | JCM | DAS | BBR |
| A | 10/18/17 | ISSUED FOR REVIEW | JCM | DAS | BBR |

SCALE: AS SHOWN DESIGNED BY: DAS DRAWN BY: MR



AT&T MOBILITY
FRAMINGHAM, MA 01701

TITLE SHEET

| DEWBERRY NO. | DRAWING NUMBER | REV |
|-------------------|----------------|-----|
| 50093723/50093734 | T01 | 0 |

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
PROJECT MANAGEMENT - CENTERLINE COMMUNICATIONS
CONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
OWNER - AT&T MOBILITY
OEM - ORIGINAL EQUIPMENT MANUFACTURER
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF PROJECT MANAGEMENT.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO SCALE UNLESS OTHERWISE NOTED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY PROJECT MANAGEMENT.
- CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. CONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH PROJECT MANAGEMENT.
- THE CONTRACTOR SHALL PROTECT EXISTING & PROPOSED IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY DEWBERRY 48 HOURS IN ADVANCE OF POURING CONCRETE, OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS & POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEER REVIEW.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. CONTRACTOR SHALL NOTIFY PROJECT MANAGEMENT OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.

SITE WORK GENERAL NOTES:

- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO:
A) FALL PROTECTION
B) CONFINED SPACE
C) ELECTRICAL SAFETY
D) TRENCHING & EXCAVATION.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES, TOP SOIL AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE AT&T SPECIFICATION FOR SITE SIGNAGE.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE TRANSMISSION EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION, SEE SOIL COMPACTION NOTES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL JURISDICTION'S GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

CONCRETE AND REINFORCING STEEL NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (4000 PSI) MAY BE USED. ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE (UNO). SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH.....3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER2 IN.
#5 AND SMALLER & WWF.....1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL3/4 IN.
BEAMS AND COLUMNS.....1 1/2 IN.
- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.
- CONCRETE CYLINDER TEST IS NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC 1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER:
(A) RESULTS OF CONCRETE CYLINDER TESTS PERFORMED AT THE SUPPLIER'S PLANT,
(B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.
FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.
- AS AN ALTERNATIVE TO ITEM 7, TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.
- EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

- ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS UNLESS NOTED OTHERWISE. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE 3/4"Ø CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION & TOPSOIL EXPOSE UNDISTURBED NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
- AS AN ALTERNATIVE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
- COMPACTED SUBBASE SHALL BE UNIFORM & LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING 1" SIEVE.
- AS AN ALTERNATIVE TO ITEMS 2 AND 3 PROOFROLL THE SUBGRADE SOILS WITH 5 PASSES OF A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). ANY SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL, AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

- HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

CONSTRUCTION NOTES:

- FIELD VERIFICATION:
CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, AT&T ANTENNA PLATFORM LOCATION AND ANTENNAS TO BE REPLACED.
- COORDINATION OF WORK:
CONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH PROJECT MANAGEMENT.
- CABLE LADDER RACK:
CONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO ANY NEW BTS LOCATION.

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLE TO NEW BTS EQUIPMENT. CONTRACTOR SHALL SUBMIT MODIFICATIONS TO PROJECT MANAGEMENT FOR APPROVAL.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA, AND MATCH EXISTING INSTALLATION REQUIREMENTS.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (SIZE 14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL.) PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (SIZE 6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (SIZE 14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC, AND NEC.
- NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC, AND NEC.
- CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM PROJECT MANAGEMENT BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

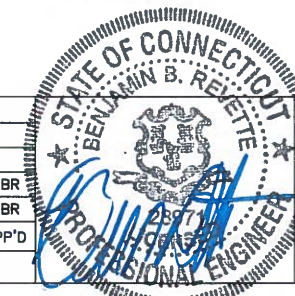
Dewberry
Dewberry Engineers Inc.
280 SUMMER STREET
10TH FLOOR
BOSTON, MA 02210
PHONE: 617.695.3400
FAX: 617.695.3310

CENTERLINE
COMMUNICATIONS
95 RYAN DRIVE, SUITE 1
RAYNHAM, MA 02767

at&t
Mobility
500 ENTERPRISE DRIVE
SUITE 3A
ROCKY HILL, CT 06067

WINSTED/WINCHESTER 3C/4C
SITE NO. CT1071
15 OAKDALE AVENUE
WINSTED, CT 06098

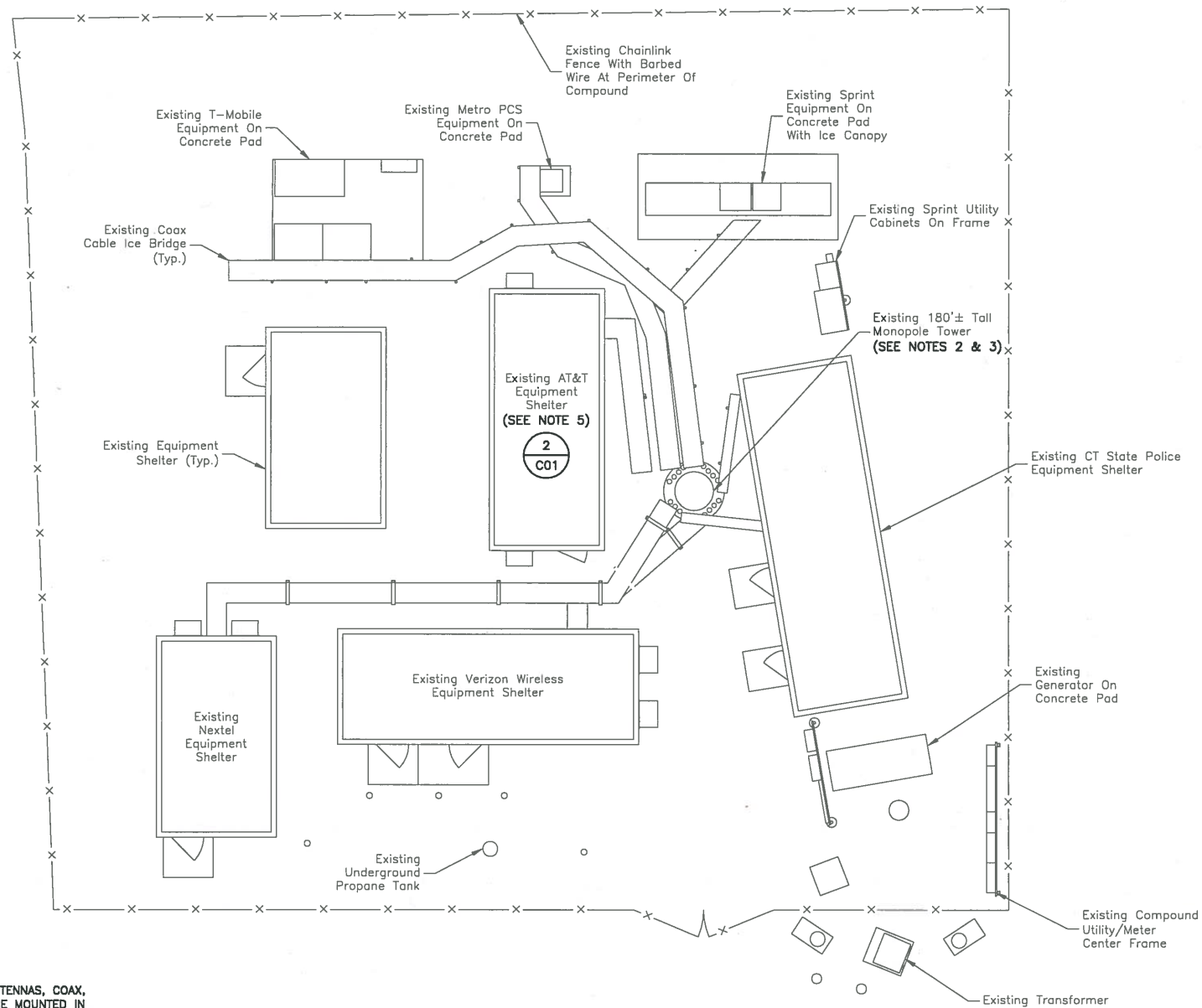
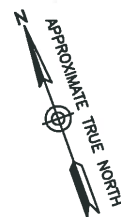
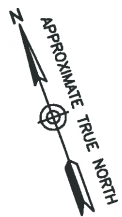
| 0 | 01/02/17 | ISSUED FOR CONSTRUCTION | JCM | DAS | BBR |
|-----------------|----------|-------------------------|--------------|-----|-------|
| A | 10/18/17 | ISSUED FOR REVIEW | JCM | DAS | BBR |
| NO. | DATE | REVISIONS | BY | CHK | APP'D |
| SCALE: AS SHOWN | | DESIGNED BY: DAS | DRAWN BY: MR | | |



AT&T MOBILITY
FRAMINGHAM, MA 01701

GENERAL NOTES

| DEWBERRY NO. | DRAWING NUMBER | REV |
|-------------------|----------------|-----|
| 50093723/50093734 | GO1 | 0 |



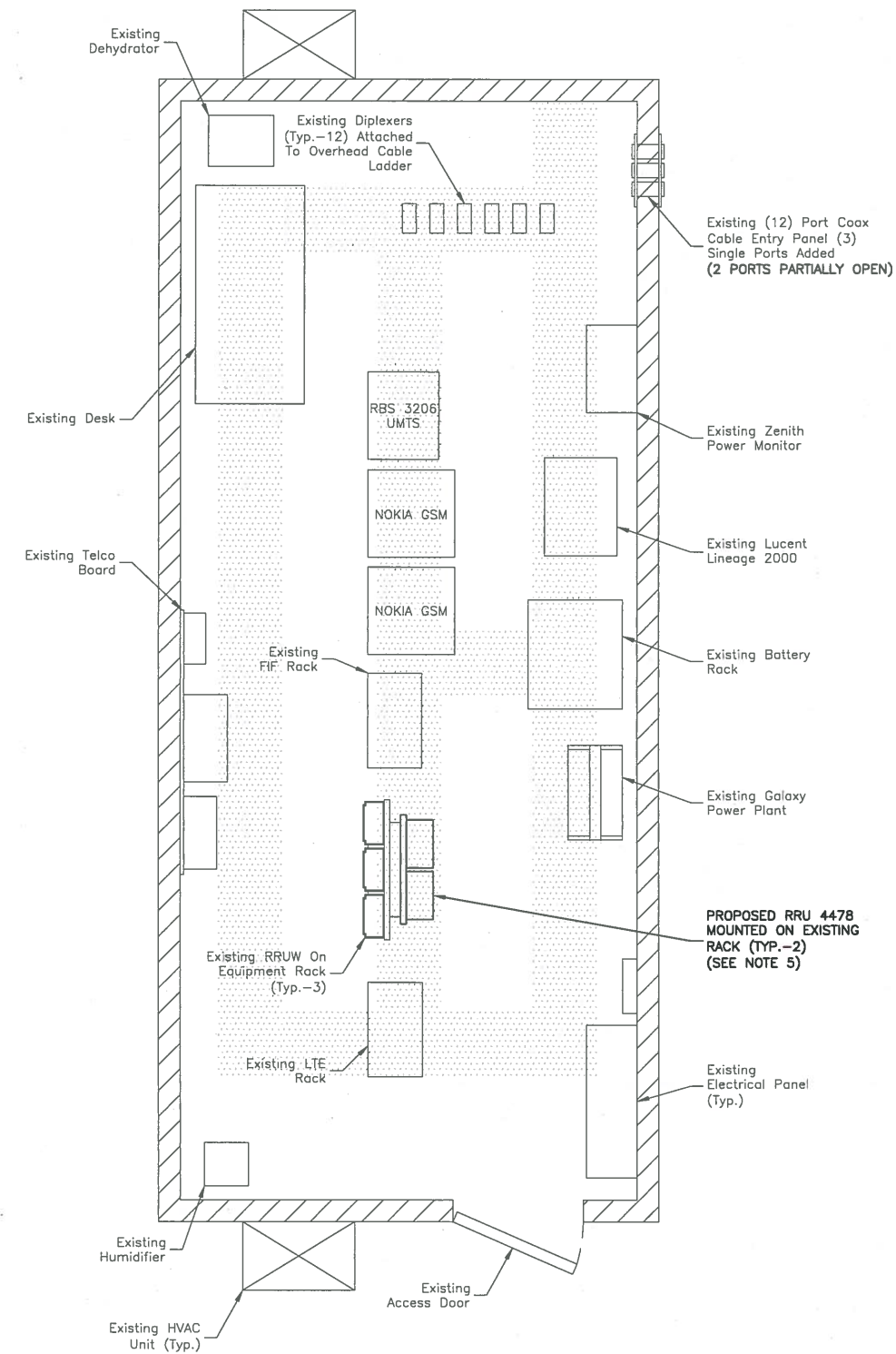
PROPOSED SITE PLAN

SCALE: 1/16"=1' FOR 11"x17"
1/8"=1' FOR 22"x34"



NOTES:

1. NORTH ARROW SHOWN AS APPROXIMATE.
2. ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, SURGE ARRESTORS, RRU'S, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS (BY OTHERS).
3. DEWBERRY WAS NOT PROVIDED WITH OR CONTRACTED TO PERFORM A STRUCTURAL ANALYSIS ON THIS TOWER. TOWER RELATED IMPROVEMENTS ARE NOT TO BE INSTALLED WITHOUT A PASSING STRUCTURAL ANALYSIS. SEE STRUCTURAL NOTE ON SHEET T01.
4. NOT ALL INFORMATION SHOWN FOR CLARITY.
5. EQUIPMENT MODIFICATION SCOPE:
 - ADD LTE 700 RRU-S-B14 4478 & SURGE ARRESTORS.
 - REPLACE DUS WITH 5216.
 - INSTALL (1) XMU.
 - DECOMMISSION EXISTING GSM.
 - DECOMMISSION EXISTING UMTS 1900.



PROPOSED SHELTER PLAN

SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"



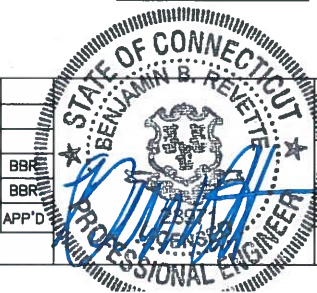
Dewberry
Dewberry Engineers Inc.
280 SUMMER STREET
10TH FLOOR
BOSTON, MA 02210
PHONE: 617.695.3400
FAX: 617.695.3310

CENTERLINE
COMMUNICATIONS
95 RYAN DRIVE, SUITE 1
RAYNHAM, MA 02767

at&t
Mobility
500 ENTERPRISE DRIVE
SUITE 3A
ROCKY HILL, CT 06067

WINSTED/WINCHESTER 3C/4C
SITE NO. CT1071
15 OAKDALE AVENUE
WINSTED, CT 06098

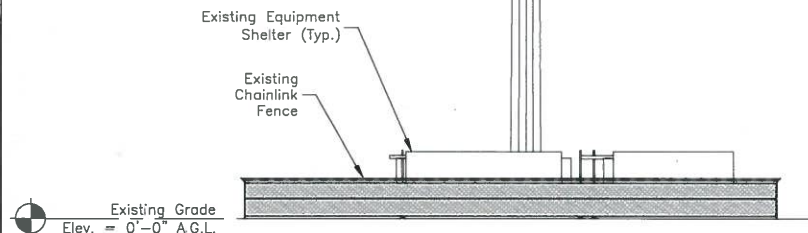
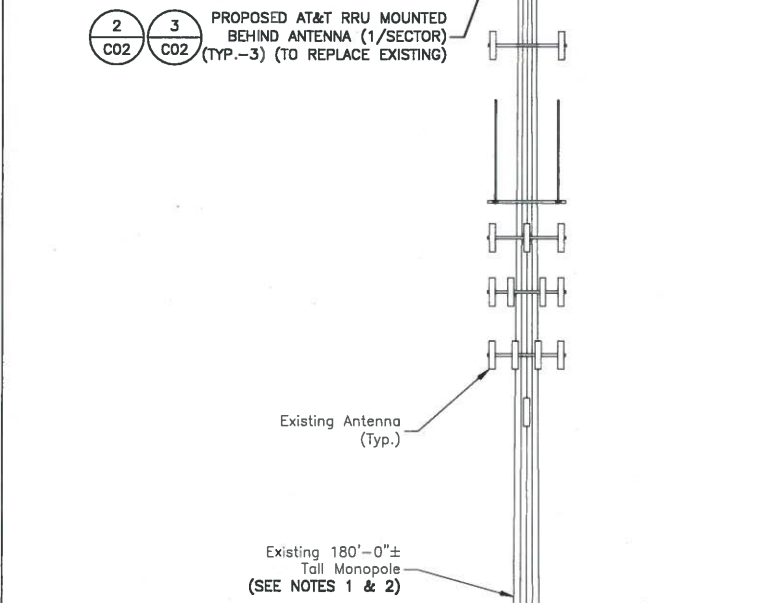
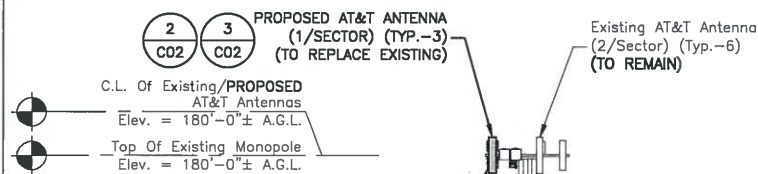
| | | | | | |
|-----------------|----------|-------------------------|--------------|-----|-------|
| NO. | DATE | REVISIONS | BY | CHK | APP'D |
| 0 | 01/02/17 | ISSUED FOR CONSTRUCTION | JCM | DAS | BBR |
| A | 10/18/17 | ISSUED FOR REVIEW | JCM | DAS | BBR |
| SCALE: AS SHOWN | | DESIGNED BY: DAS | DRAWN BY: MR | | |



AT&T MOBILITY
FRAMINGHAM, MA 01701

PROPOSED SITE PLAN & SHELTER PLAN

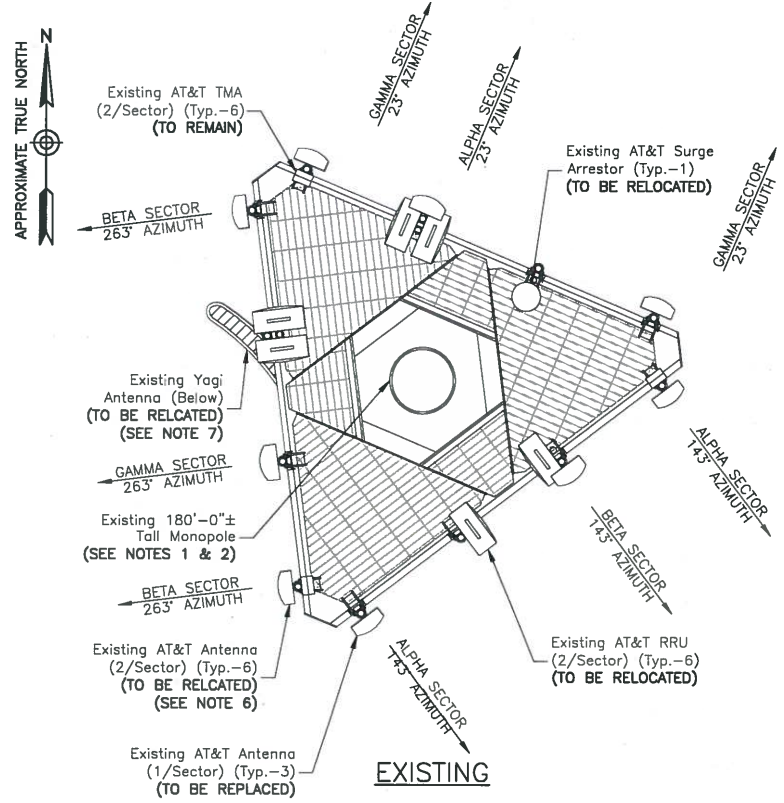
| | | |
|-------------------|----------------|-----|
| DEWBERRY NO. | DRAWING NUMBER | REV |
| 50093723/50093734 | C01 | 0 |



PROPOSED ELEVATION
 SCALE: 1/32"=1' FOR 11"x17"
 1/16"=1' FOR 22"x34"
 0' 8' 16' 32'

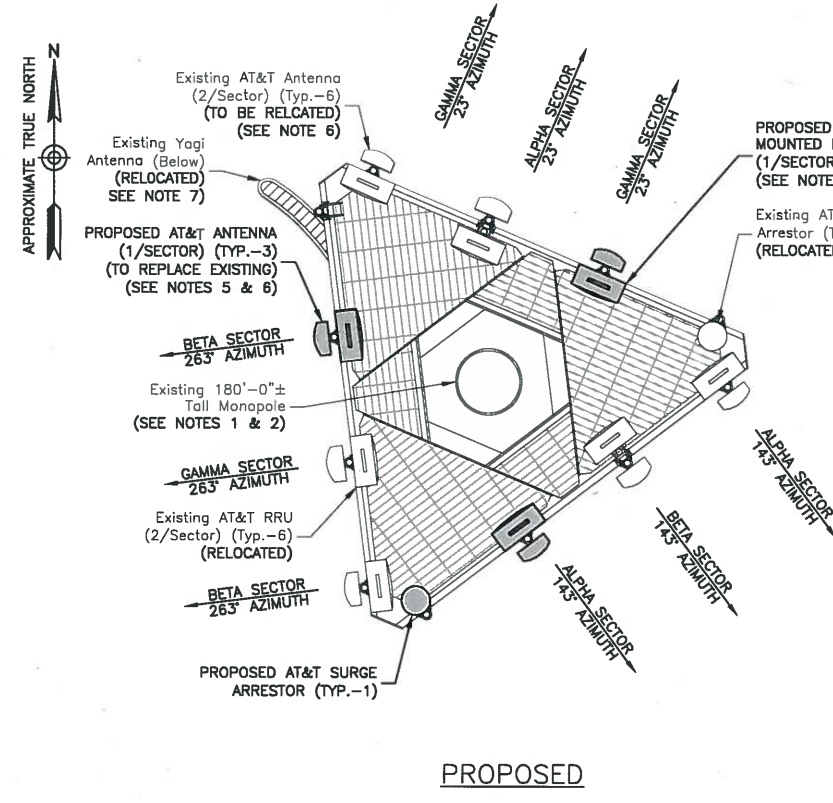
NOTES:

1. ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, SURGE ARRESTORS, RRU'S, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS (BY OTHERS).
2. DEWBERRY WAS NOT PROVIDED WITH OR CONTRACTED TO PERFORM A STRUCTURAL ANALYSIS ON THIS TOWER. TOWER RELATED IMPROVEMENTS ARE NOT TO BE INSTALLED WITHOUT A PASSING STRUCTURAL ANALYSIS. SEE STRUCTURAL NOTE ON SHEET T01.
3. NOT ALL INFORMATION SHOWN FOR CLARITY.
4. CONTRACTOR SHALL INSTALL ALL PROPOSED EQUIPMENT IN ACCORDANCE WITH THE ANTENNA MOUNT ANALYSIS REPORT BY DEWBERRY ENGINEERS INC. DATED 01/02/18 AND IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. CONTRACTOR SHALL INSTALL EXISTING/PROPOSED ANTENNAS TO BE CENTERED ON THE EXISTING CO-LOCATION PLATFORM MOUNT, FOR AN APPROXIMATE CENTERLINE OF 180'-0".



EXISTING

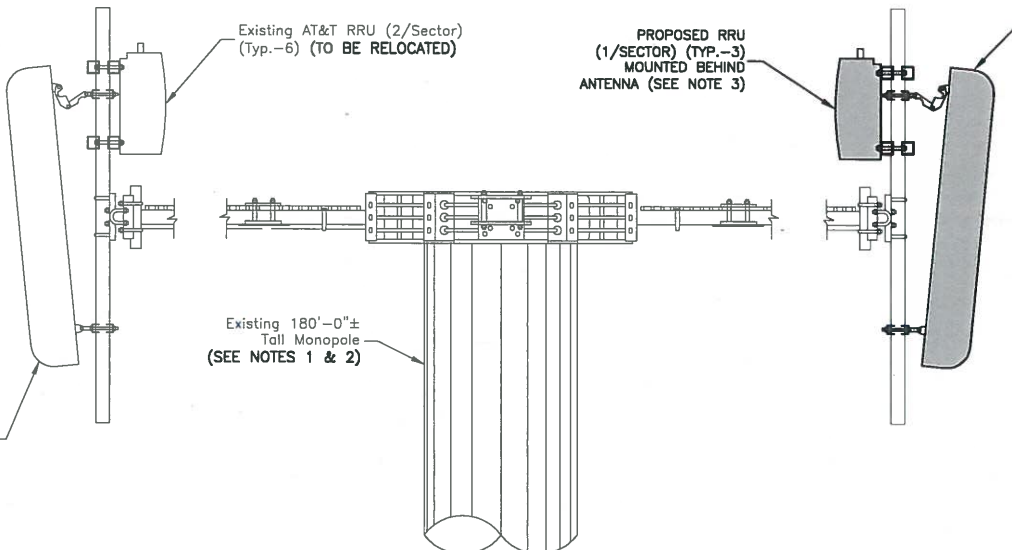
ANTENNA ORIENTATION PLAN
 SCALE: N.T.S.



PROPOSED

NOTES:

1. ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, SURGE ARRESTORS, RRU'S, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS (BY OTHERS) AND MANUFACTURER SPECIFICATIONS.
2. DEWBERRY WAS NOT PROVIDED WITH OR CONTRACTED TO PERFORM A STRUCTURAL ANALYSIS ON THIS TOWER. TOWER RELATED IMPROVEMENTS ARE NOT TO BE INSTALLED WITHOUT A PASSING STRUCTURAL ANALYSIS. SEE STRUCTURAL NOTE ON SHEET T01.
3. PLEASE SEE RFDS FOR RRU FREQUENCY AND MODEL NUMBER.
4. ALL SPACING REQUIREMENTS FOR PROPOSED RRU MOUNTS SHALL BE CONFIRMED AND SHALL NOT IMPEDE CLIMBING PEGS, TIE OFF FEATURES, OR OTHER EXISTING SAFETY FEATURES. ALL MOUNTS SHALL MAINTAIN EXISTING/PROPOSED MANUFACTURER REQUIREMENTS AND SHALL NOT EXCEED THE TOP OF THE TOWER OR INTERFERE WITH OTHER RAD CENTERS.
5. ANTENNA SPACING REQUIREMENTS:
 - 3'-0" MINIMUM SEPARATION BETWEEN LTE ANTENNAS
 - 6'-0" MINIMUM SEPARATION BETWEEN 700BC & 700DE
6. CONTRACTOR SHALL INSTALL ALL PROPOSED EQUIPMENT IN ACCORDANCE WITH THE ANTENNA MOUNT ANALYSIS REPORT BY DEWBERRY ENGINEERS INC. DATED 01/02/18 AND IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. CONTRACTOR SHALL INSTALL EXISTING/PROPOSED ANTENNAS TO BE CENTERED ON THE EXISTING CO-LOCATION PLATFORM MOUNT, FOR AN APPROXIMATE CENTERLINE OF 180'-0".
7. COORDINATE YAGI ANTENNA RE-LOCATION WITH TOWER OWNER & AT&T C.M.



PROPOSED ANTENNA MOUNTING DETAIL
 SCALE: N.T.S.

NOTES:

1. ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, SURGE ARRESTORS, RRU'S, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS (BY OTHERS) AND MANUFACTURER SPECIFICATIONS.
2. DEWBERRY WAS NOT PROVIDED WITH OR CONTRACTED TO PERFORM A STRUCTURAL ANALYSIS ON THIS TOWER. TOWER RELATED IMPROVEMENTS ARE NOT TO BE INSTALLED WITHOUT A PASSING STRUCTURAL ANALYSIS. SEE STRUCTURAL NOTE ON SHEET T01.
3. PLEASE SEE RFDS FOR RRU FREQUENCY AND MODEL NUMBER.
4. ALL SPACING REQUIREMENTS FOR PROPOSED RRU MOUNTS SHALL BE CONFIRMED AND SHALL NOT IMPEDE CLIMBING PEGS, TIE OFF FEATURES, OR OTHER EXISTING SAFETY FEATURES. ALL MOUNTS SHALL MAINTAIN EXISTING/PROPOSED MANUFACTURER REQUIREMENTS AND SHALL NOT EXCEED THE TOP OF THE TOWER OR INTERFERE WITH OTHER RAD CENTERS.
5. ANTENNA SPACING REQUIREMENTS:
 - 3'-0" MINIMUM SEPARATION BETWEEN LTE ANTENNAS
 - 6'-0" MINIMUM SEPARATION BETWEEN 700BC & 700DE
6. CONTRACTOR SHALL INSTALL ALL PROPOSED EQUIPMENT IN ACCORDANCE WITH THE ANTENNA MOUNT ANALYSIS REPORT BY DEWBERRY ENGINEERS INC. DATED 01/02/18 AND IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. CONTRACTOR SHALL INSTALL EXISTING/PROPOSED ANTENNAS TO BE CENTERED ON THE EXISTING CO-LOCATION PLATFORM MOUNT, FOR AN APPROXIMATE CENTERLINE OF 180'-0".

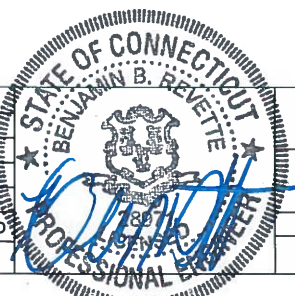
Dewberry
 Dewberry Engineers Inc.
 280 SUMMER STREET
 10TH FLOOR
 BOSTON, MA 02210
 PHONE: 617.695.3400
 FAX: 617.695.3310

CENTERLINE
 COMMUNICATIONS
 95 RYAN DRIVE, SUITE 1
 RAYNHAM, MA 02767

at&t
 Mobility
 500 ENTERPRISE DRIVE
 SUITE 3A
 ROCKY HILL, CT 06067

WINSTED/WINCHESTER 3C/4C
 SITE NO. CT1071
 15 OAKDALE AVENUE
 WINSTED, CT 06098

| | | | | | |
|-----------------|----------|-------------------------|--------------|-----|-------|
| NO. | DATE | REVISIONS | BY | CHK | APP'D |
| 0 | 01/02/17 | ISSUED FOR CONSTRUCTION | JCM | DAS | BBB |
| A | 10/18/17 | ISSUED FOR REVIEW | JCM | DAS | BBB |
| SCALE: AS SHOWN | | DESIGNED BY: DAS | DRAWN BY: MR | | |



AT&T MOBILITY
 FRAMINGHAM, MA 01701

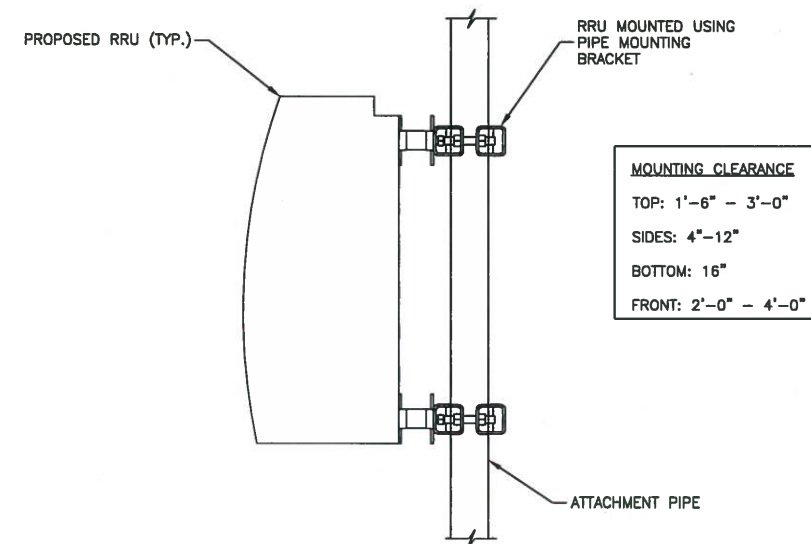
PROPOSED ELEVATION & CONSTRUCTION DETAILS

| | | |
|-------------------|----------------|-----|
| DEWBERRY NO. | DRAWING NUMBER | REV |
| 50093723/50093734 | C02 | 0 |

| FINAL EQUIPMENT CONFIGURATION | | | | | | | | | | |
|-------------------------------|-----------------|----------------------------------|--------------------------|----------------|---------|----------------------|---|--|-----------------|------------------|
| SECTOR | BAND | ANTENNA | SIZE (INCHES) (LxWxD) | RAD. CENTER | AZIMUTH | TMA | RRU | SIZE (INCHES) (LxWxD) | COAX JUMPERS | FIBER JUMPERS |
| ALPHA | UMTS 850 | POWERWAVE 7770 | 55.0x11.0x5.0 | 184 | 143 | (E) TT19-08BP111-001 | - | - | E (2) | - |
| | LTE 700 BC/PCS | KMW AM-X-CD-16-65-00 T-RET | 72.0x11.8x5.9 | 184 | 23 | - | (E) RRUS-11 700 (B/C) (E) RRUS-12 1900 (PCS) | 19.7 x 17.0 x 7.2 20.4 x 18.5 x 7.5 | - | - |
| | LTE 700 B14/AWS | CCI HPA-65R-BUU-H6 | 72.0x14.8x9.0 | 184 | 23 | - | (P) 4478 700D (B14) (SHARED WITH BETA) (IN SHELTER) (P) RRUS-32 (WCS) | 15.0 x 13.2 x 7.4 27.2 x 12.1 x 7.0 | E (2) | E (1) |
| | - | - | - | - | - | - | - | - | - | - |
| BETA | UMTS 850 | POWERWAVE 7770 | 55.0x11.0x5.0 | 184 | 263 | (E) TT19-08BP111-001 | - | - | E (2) | - |
| | LTE 700 BC/PCS | KMW AM-X-CD-16-65-00 T-RET | 72.0x11.8x5.9 | 184 | 143 | - | (E) RRUS-11 700 (B/C) (E) RRUS-12 1900 (PCS) | 19.7 x 17.0 x 7.2 20.4 x 18.5 x 7.5 | - | - |
| | LTE 700 B14/AWS | CCI HPA-65R-BUU-H6 | 72.0x14.8x9.0 | 184 | 143 | - | (P) 4478 700D (B14) (SHARED WITH ALPHA) (IN SHELTER) (P) RRUS-32 (WCS) | 15.0 x 13.2 x 7.4 27.2 x 12.1 x 7.0 | E (2) | E (1) |
| | - | - | - | - | - | - | - | - | - | - |
| GAMMA | UMTS 850 | POWERWAVE 7770 | 55.0x11.0x5.0 | 184 | 23 | (E) TT19-08BP111-001 | - | - | E (2) | - |
| | LTE 700 BC/PCS | KMW AM-X-CD-16-65-00 T-RET | 72.0x11.8x5.9 | 184 | 263 | - | (E) RRUS-11 700 (B/C) (E) RRUS-12 1900 (PCS) | 19.7 x 17.0 x 7.2 20.4 x 18.5 x 7.5 | - | - |
| | LTE 700 B14/AWS | CCI HPA-65R-BUU-H6 | 72.0x14.8x9.0 | 184 | 263 | - | (P) 4478 700D (B14) (IN SHELTER) (P) RRUS-32 (WCS) | 15.0 x 13.2 x 7.4 27.2 x 12.1 x 7.0 | E (2) | E (1) |
| | - | - | - | - | - | - | - | - | - | - |

FINAL EQUIPMENT CONFIGURATION
SCALE: N.T.S.

1



REMOTE ATTACHMENT DETAIL
SCALE: N.T.S.

2

Dewberry
Dewberry Engineers Inc.
280 SUMMER STREET
10TH FLOOR
BOSTON, MA 02210
PHONE: 617.685.3400
FAX: 617.695.3310

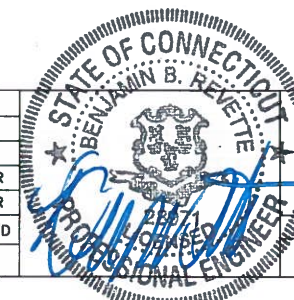
CENTERLINE
COMMUNICATIONS
95 RYAN DRIVE, SUITE 1
RAYNHAM, MA 02767

at&t
Mobility
500 ENTERPRISE DRIVE
SUITE 3A
ROCKY HILL, CT 06067

WINSTED/WINCHESTER 3C/4C
SITE NO. CT1071
15 OAKDALE AVENUE
WINSTED, CT 06098

| NO. | DATE | REVISIONS | BY | CHK | APP'D |
|-----|----------|-------------------------|-----|-----|-------|
| 0 | 01/02/17 | ISSUED FOR CONSTRUCTION | JCM | DAS | BBR |
| A | 10/18/17 | ISSUED FOR REVIEW | JCM | DAS | BBR |

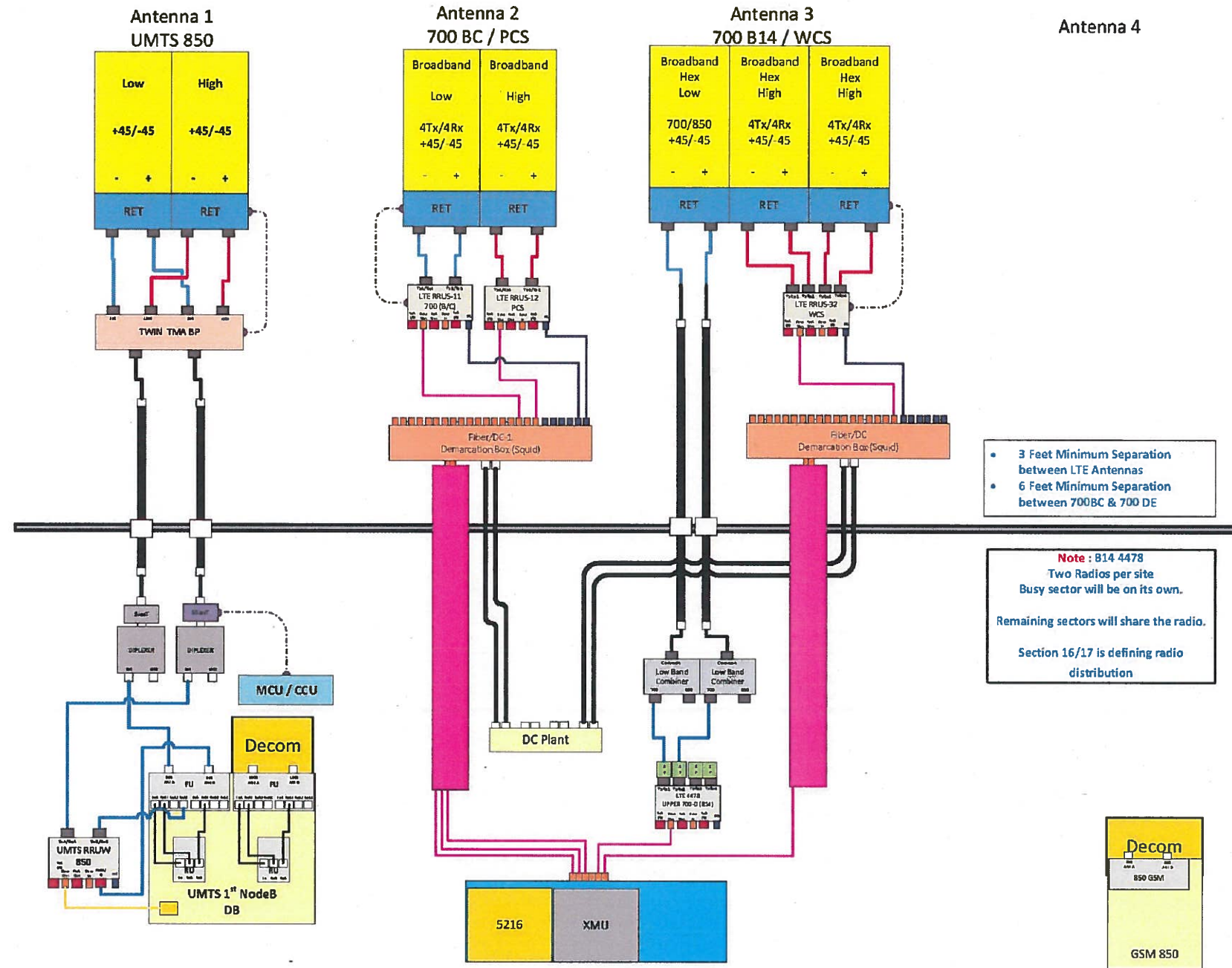
SCALE: AS SHOWN DESIGNED BY: DAS DRAWN BY: MR



AT&T MOBILITY
FRAMINGHAM, MA 01701

FINAL EQUIPMENT CONFIGURATION & RRU DETAILS

| DEWBERRY NO. | DRAWING NUMBER | REV |
|-------------------|----------------|-----|
| 50093723/50093734 | C03 | 0 |



EQUIPMENT PLUMBING DIAGRAM
 SCALE: N.T.S.

1

- NOTES:**
- EQUIPMENT PLUMBING DIAGRAM PER RFDS VERSION 1 DATED 04/19/17.
 - CONTRACTOR TO VERIFY FINAL EQUIPMENT CONFIGURATION AND SEPARATIONS WITH AT&T PRIOR TO CONSTRUCTION.



Dewberry Engineers Inc.
 280 SUMMER STREET
 10TH FLOOR
 BOSTON, MA 02210
 PHONE: 617.695.3400
 FAX: 617.695.3310



95 RYAN DRIVE, SUITE 1
 RAYNHAM, MA 02767

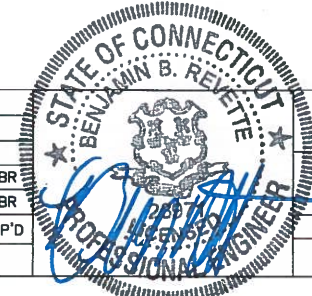


at&t
 Mobility
 500 ENTERPRISE DRIVE
 SUITE 3A
 ROCKY HILL, CT 06067

WINSTED/WINCHESTER 3C/4C
SITE NO. CT1071

15 OAKDALE AVENUE
 WINSTED, CT 06098

| | | | | | |
|-----------------|----------|-------------------------|--------------|-----|-------|
| NO. | DATE | REVISIONS | BY | CHK | APP'D |
| 0 | 01/02/17 | ISSUED FOR CONSTRUCTION | JCM | DAS | BBR |
| A | 10/18/17 | ISSUED FOR REVIEW | JCM | DAS | BBR |
| SCALE: AS SHOWN | | DESIGNED BY: DAS | DRAWN BY: MR | | |



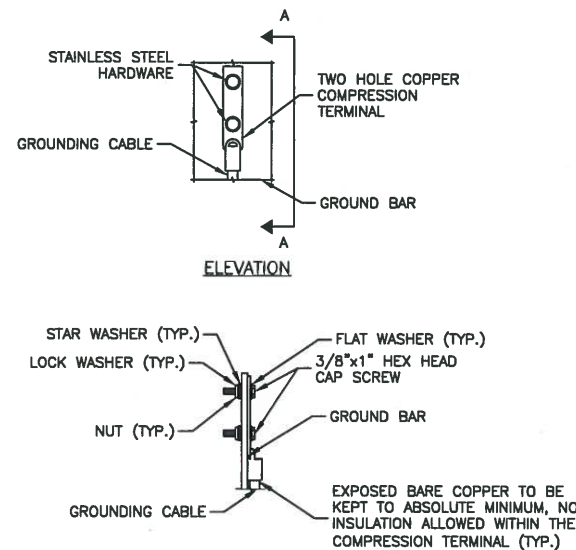
AT&T MOBILITY
 FRAMINGHAM, MA 01701

EQUIPMENT PLUMBING DIAGRAM

| | | |
|-------------------|----------------|-----|
| DEWBERRY NO. | DRAWING NUMBER | REV |
| 50093723/50093734 | C04 | 0 |

GROUNDING NOTES:

- 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 AHJ), 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 CONTRACTOR FOR RESOLUTION.
- 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.
- 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 CONTRACTOR IN WRITING.
- 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.
- 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.
- METAL CONDUIT AND TRAY SHALL BE GROUNDING 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.
- 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.
- 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.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- 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.
- 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.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE 2 AWG SOLID TIN-PLATED COPPER UNLESS OTHERWISE INDICATED.
- 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 CENTERLINE COMMUNICATIONS MARKET REPRESENTATIVE.
- EXOTHERMIC WELDS SHALL BE PERMITTED ON TOWERS ONLY WITH THE EXPRESS APPROVAL OF THE TOWER MANUFACTURER OR THE CONTRACTORS STRUCTURAL ENGINEER.
- 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.
- 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.
- 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.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- 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.
- 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.



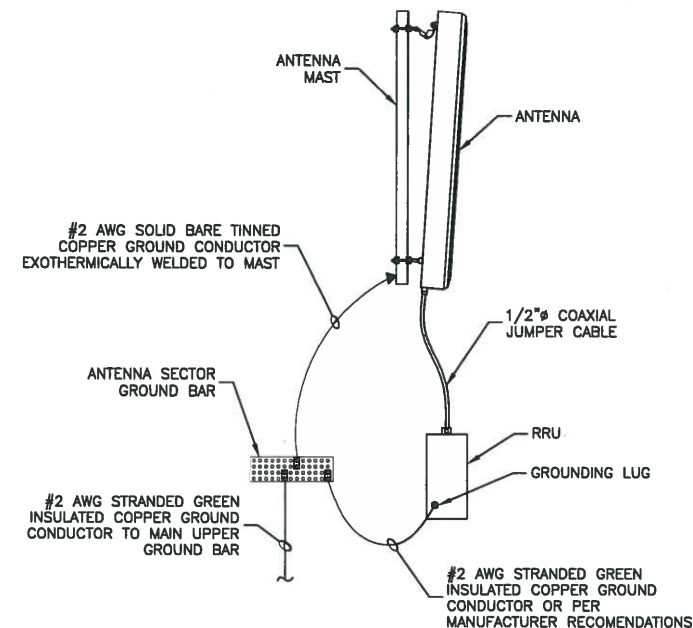
NOTES:

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

TYPICAL GROUND BAR MECHANICAL CONNECTION DETAIL

SCALE: N.T.S.

1



NOTES:

- VERIFY EXISTING GROUNDING SYSTEM IS INSTALLED PER AT&T STANDARDS.
- BOND NEW EQUIPMENT INTO EXISTING GROUND SYSTEM IN ACCORDANCE WITH AT&T STANDARDS & MANUFACTURER RECOMMENDATIONS.

TYPICAL ANTENNA/RRU GROUNDING DETAIL

SCALE: N.T.S.

2

Dewberry
Dewberry Engineers Inc.
280 SUMMER STREET
10TH FLOOR
BOSTON, MA 02210
PHONE: 617.695.3400
FAX: 617.695.3310

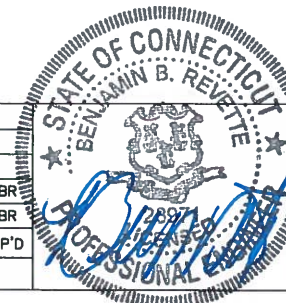
CENTERLINE
COMMUNICATIONS
95 RYAN DRIVE, SUITE 1
RAYNHAM, MA 02767

at&t
Mobility
500 ENTERPRISE DRIVE
SUITE 3A
ROCKY HILL, CT 06067

**WINSTED/WINCHESTER 3C/4C
SITE NO. CT1071**

15 OAKDALE AVENUE
WINSTED, CT 06098

| | | | | | |
|-----------------|----------|-------------------------|--------------|-----|-------|
| NO. | DATE | REVISIONS | BY | CHK | APP'D |
| 0 | 01/02/17 | ISSUED FOR CONSTRUCTION | JCM | DAS | BBR |
| A | 10/18/17 | ISSUED FOR REVIEW | JCM | DAS | BBR |
| SCALE: AS SHOWN | | DESIGNED BY: DAS | DRAWN BY: MR | | |



AT&T MOBILITY
FRAMINGHAM, MA 01701

GROUNDING DETAILS

| | | |
|-------------------|----------------|-----|
| DEWBERRY NO. | DRAWING NUMBER | REV |
| 50093723/50093734 | E01 | 0 |

EXHIBIT 3



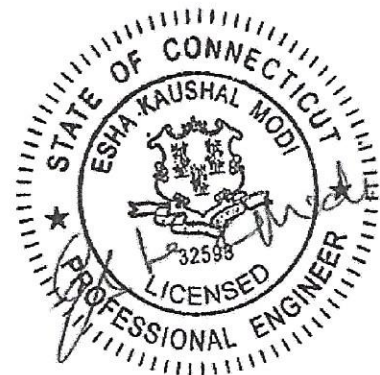
AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 180 ft Monopole
ATC Site Name : Winchester CT 3, CT
ATC Site Number : 302506
Engineering Number : OAA714359_C3_01
Proposed Carrier : AT&T Mobility
Carrier Site Name : Winsted CT
Carrier Site Number : CT1071
Site Location : 15 Oakdale Avenue
Winsted, CT 06098-1862
41.921700,-73.049500
County : Litchfield
Date : October 24, 2017
Max Usage : 85%
Result : Pass

Prepared By:
Trevor Ridilla
Structural Engineer I

Reviewed By:



Oct 24 2017 4:06 PM cosign

COA: PEC.0001553



Table of Contents

| | |
|--------------------------------------|----------|
| Introduction | 1 |
| Supporting Documents | 1 |
| Analysis | 1 |
| Conclusion..... | 1 |
| Existing and Reserved Equipment..... | 2 |
| Equipment to be Removed..... | 2 |
| Proposed Equipment | 3 |
| Structure Usages | 4 |
| Foundations | 4 |
| Deflection, Twist, and Sway..... | 4 |
| Standard Conditions | 5 |
| Calculations | Attached |



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 180 ft monopole to reflect the change in loading by AT&T Mobility.

Supporting Documents

| | |
|----------------------------|--|
| Tower Drawings | EEI Job #7676, dated August 21, 2000 |
| Foundation Drawing | SNET Project #F301804.10/F04, dated August 23, 2000 |
| Geotechnical Report | Welti Project: Whalen's Hill, dated February 8, 2000 |
| Modifications | ATC Job #42523432, dated October 24, 2008 ATC Job #50492933, dated October 15, 2012 |

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: | 90 mph (3-Second Gust, Vasd) / 115 mph (3-Second Gust, Vult) |
| Basic Wind Speed w/ Ice: | 40 mph (3-Second Gust) w/ 1" radial ice concurrent |
| Code: | ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code |
| Structure Class: | III |
| Exposure Category: | B |
| Topographic Category: | 1 |
| Crest Height: | 0 ft |
| Spectral Response: | $S_s = 0.18, S_1 = 0.06$ |
| Site Class: | D - Stiff Soil |

Conclusion

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

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



Existing and Reserved Equipment

| Elevation ¹ (ft) | | Qty | Antenna | Mount Type | Lines | Carrier |
|-----------------------------|-------|-----|--|-----------------------|--|----------------------------|
| Mount | RAD | | | | | |
| 185.0 | 187.0 | 1 | 4' Omni | - | - | Other |
| 184.0 | 184.0 | 1 | Andrew ABT-DMDF-ADBH | Low Profile Platform | (12) 1 5/8" Coax (2) 0.78" 8 AWG 6 (1) 0.40" Fiber (1) 3" Conduit | AT&T Mobility |
| | | 3 | Powerwave LGP21401 | | | |
| | | 3 | Ericsson RRUS 11 (Band 12) | | | |
| | | 3 | Ericsson RRUS-12 B2 | | | |
| | | 3 | Powerwave 7770.00 | | | |
| | | 3 | KMW AM-X-CD-16-65-00T-RET | | | |
| 167.0 | 167.0 | 3 | Ericsson KRY 112 144/1 | T-Arms | (12) 1 5/8" Coax (1) 1 1/4" Hybriflex | T-Mobile |
| | | 3 | Ericsson AIR 21, 1.3 M, B2A B4P | | | |
| | | 3 | Ericsson AIR 21, 1.3M, B4A B2P | | | |
| 150.0 | 150.0 | 1 | Sinclair SD210-SF2P4SNM | Side Arm | (1) 1 5/8" Coax | Litchfield County Dispatch |
| 140.0 | 149.0 | 1 | Sinclair SC432D-HF6LDF (I40-G06) | Side Arms | (6) 1 5/8" Coax (1) 7/8" Coax (1) 1/2" Coax (2) 3/8" Coax | Ct Police Dept. |
| | | 2 | Decibel DB809DK-XT | | | |
| | 141.0 | 1 | Telewave ANT150D (5 lbs) | | | |
| | | 2 | Bird 432-83H-01-T | | | |
| 135.0 | 135.0 | 3 | Alcatel-Lucent 800MHz RRH w/ Notch Filter | Platform w/ Handrails | (3) 1 1/4" Hybriflex (1) 7/8" Fiber | Sprint Nextel |
| | | 3 | Alcatel-Lucent 1900MHz RRH | | | |
| | | 3 | Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield | | | |
| | | 3 | RFS APXVTM14-C-I20 | | | |
| | | 3 | RFS APXVSP18-C-A20 | | | |
| | | 3 | RFS APXVSP18-C-A20 | | | |
| 125.0 | 125.0 | 6 | RFS FD9R6004/2C-3L (3.1 lbs) | Low Profile Platform | (6) 1 5/8" Coax (1) 1 5/8" Hybriflex | Verizon |
| | | 3 | Nokia B5 RRH4x40-850 | | | |
| | | 3 | Alcatel-Lucent RRH2x60 700 | | | |
| | | 1 | RFS DB-B1-6C-12AB-OZ | | | |
| | | 3 | Alcatel-Lucent B66a RRH4x45 (AWS-3) | | | |
| | | 2 | Antel LPA-80080/6CF | | | |
| | | 1 | Antel LPA-80063/6CF | | | |
| 112.0 | 112.0 | 12 | Decibel DB844H90E-XY | Low Profile Platform | (12) 1 1/4" Coax | Sprint Nextel |
| 105.0 | 105.0 | 3 | RFS APXV18-206517S-C | Flush | (6) 1 5/8" Coax | Metro PCS |
| 96.0 | 96.0 | 2 | Andrew DB586 | Side Arms | (2) 7/8" Coax (1) 1/2" Coax | Eversource Energy |
| | | 1 | Bird 429-83H-01-T | | | |
| 79.0 | 79.0 | 1 | PCTEL GPS-TMG-HR-26N | Flush | (1) 1/2" Coax | Sprint Nextel |
| 30.0 | 30.0 | 1 | GPS | Flush | (1) 7/8" Coax | Verizon |

Equipment to be Removed

| Elevation ¹ (ft) | | Qty | Antenna | Mount Type | Lines | Carrier |
|-----------------------------|-------|-----|--------------------|------------|-------|---------------|
| Mount | RAD | | | | | |
| 184.0 | 184.0 | 3 | Powerwave 7770.00 | - | - | AT&T Mobility |
| | | 3 | Powerwave LGP21401 | | | |



Proposed Equipment

| Elevation ¹ (ft) | | Qty | Antenna | Mount Type | Lines | Carrier |
|-----------------------------|-------|-----|---------------------------------------|----------------------|--|---------|
| Mount | RAD | | | | | |
| 184.0 | 184.0 | 3 | Powerwave TT19-08BP111-001 | Low Profile Platform | (2) 0.78" 8 AWG 6 (1) 0.39" Fiber Trunk | |
| | | 2 | Raycap DC6-48-60-18-8F (23.5" Height) | | | |
| | | 3 | Ericsson RRUS 32 (50.8 lbs) | | | |
| | | 3 | CCI HPA-65R-BUU-H6 | | | |

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

Install proposed coax inside the pole shaft.



Structure Usages

| Structural Component | Controlling Usage | Pass/Fail |
|----------------------|-------------------|-----------|
| Anchor Bolts | 56% | Pass |
| Shaft | 67% | Pass |
| Base Plate | 29% | Pass |
| Reinforcement | 63% | Pass |

Foundations

| Reaction Component | Analysis Reactions | % of Usage |
|--------------------|--------------------|------------|
| Moment (Kips-Ft) | 3,922.1 | 44% |
| Axial (Kips) | 69.5 | 6% |
| Shear (Kips) | 33.4 | 85% |

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

Deflection and Sway*

| Antenna Elevation (ft) | Antenna | Carrier | Deflection (ft) | Sway (Rotation) (°) |
|------------------------|---------------------------------------|---------------|-----------------|---------------------|
| 180.0 | Powerwave Allgon TT19-08BP111-001 | AT&T Mobility | 3.106 | 2.259 |
| | Raycap DC6-48-60-18-8F (23.5" Height) | | | |
| | Ericsson RRUS 32 (50.8 lbs) | | | |
| | CCI HPA-65R-BUU-H6 | | | |

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

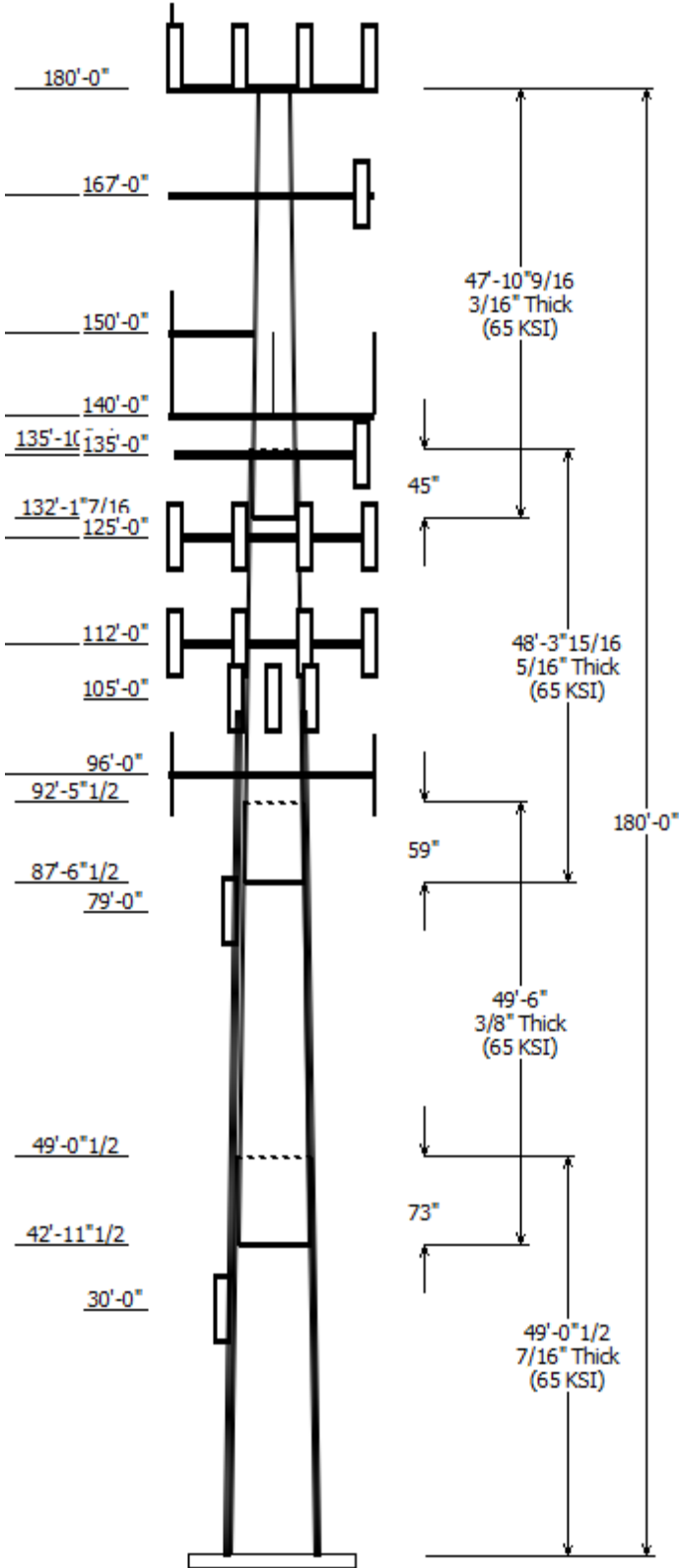
- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements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

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

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

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

© 2007 - 2017 by ATC IP LLC. All rights reserved.

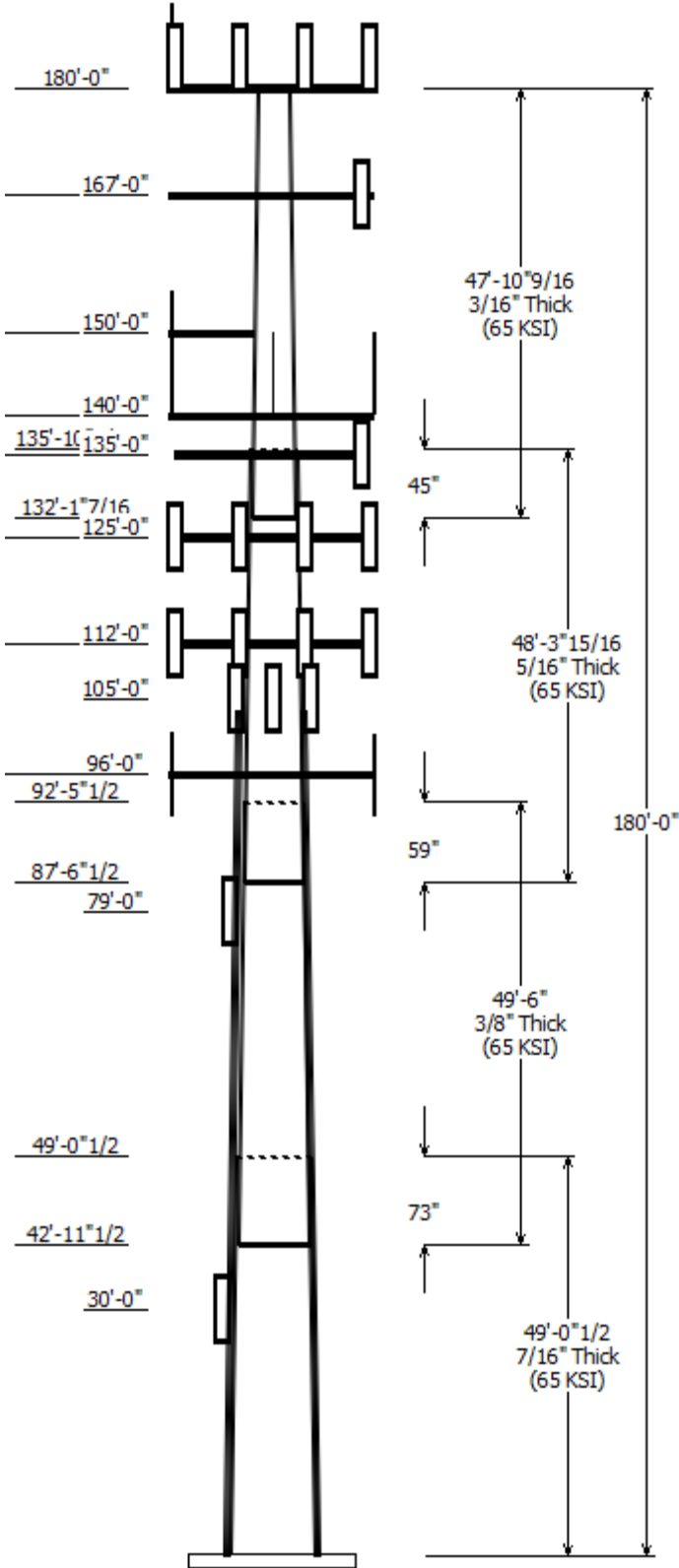


| Job Information | |
|-----------------|---------------------|
| Pole : | 302506 |
| Code : | ANSI/TIA-222-G |
| Description : | 180 ft EEI Monopole |
| Client : | AT&T MOBILITY |
| Struct Class : | III |
| Location : | Winchester CT 3, CT |
| Shape : | 18 Sides |
| Exposure : | B |
| Height : | 180.00 (ft) |
| Topo : | 1 |
| Base Elev (ft): | 0.00 |
| Taper: | 0.21944(in/ft) |

| Sections Properties | | | | | | | |
|---------------------|-------------|------------------|---------------------|------------------|---------------------|---------------------|-------------|
| Shaft Section | Length (ft) | Diameter (in) | | Thick Joint (in) | Overlap Length (in) | Steel Taper (in/ft) | Grade (ksi) |
| | | Across Flats Top | Across Flats Bottom | | | | |
| 1 | 49.040 | 41.98 | 52.75 | 0.438 | 0.000 | 0.219400 | 65 |
| 2 | 49.500 | 33.21 | 44.07 | 0.375 | 73.000 | 0.219400 | 65 |
| 3 | 48.330 | 24.30 | 34.91 | 0.313 | 59.000 | 0.219400 | 65 |
| 4 | 47.880 | 15.00 | 25.50 | 0.188 | 45.000 | 0.219400 | 65 |

| Discrete Appurtenance | | | |
|-----------------------|-----------------|-----|--------------------------------|
| Attach Elev (ft) | Force Elev (ft) | Qty | Description |
| 180.000 | 184.000 | 1 | Andrew ABT-DMDF-ADBH |
| 180.000 | 184.000 | 3 | Powerwave Allgon 7770.00 |
| 180.000 | 184.000 | 2 | Raycap DC6-48-60-18-8F (23.5" |
| 180.000 | 184.000 | 3 | Powerwave Allgon TT19- |
| 180.000 | 184.000 | 3 | Ericsson RRUS 32 (50.8 lbs) |
| 180.000 | 184.000 | 1 | Flat Low Profile Platform |
| 180.000 | 184.000 | 3 | KMW AM-X-CD-16-65-00T-RET |
| 180.000 | 184.000 | 3 | CCI HPA-65R-BUU-H6 |
| 180.000 | 184.000 | 3 | Ericsson RRUS-12 B2 |
| 180.000 | 184.000 | 3 | Ericsson RRUS 11 (Band 12) |
| 180.000 | 184.000 | 3 | Powerwave Allgon LGP21401 |
| 180.000 | 187.000 | 1 | 4' Omni |
| 167.000 | 167.000 | 3 | Round T-Arm |
| 167.000 | 167.000 | 3 | Ericsson AIR 21, 1.3M, B4A B2P |
| 167.000 | 167.000 | 3 | Ericsson AIR 21, 1.3 M, B2A B4 |
| 167.000 | 167.000 | 3 | Ericsson KRY 112 144/1 |
| 150.000 | 150.000 | 1 | Round Side Arm |
| 150.000 | 150.000 | 1 | Sinclair SD210-SF2P4SNM |
| 140.000 | 149.000 | 2 | Decibel DB809DK-XT |
| 140.000 | 149.000 | 1 | Sinclair SC432D-HF6LDF (I40-G0 |
| 140.000 | 141.000 | 2 | Bird 432-83H-01-T |
| 140.000 | 141.000 | 3 | Round Side Arm |
| 140.000 | 141.000 | 1 | Telewave ANT150D (5 lbs) |
| 135.000 | 135.000 | 1 | Flat Platform w/ Handrails |
| 135.000 | 135.000 | 3 | RFS APXVSP18-C-A20 |
| 135.000 | 135.000 | 3 | RFS APXVTM14-C-I20 |
| 135.000 | 135.000 | 3 | Alcatel-Lucent TD-RRH8x20-25 |
| 135.000 | 135.000 | 3 | Alcatel-Lucent 1900MHz RRH |
| 135.000 | 135.000 | 3 | Alcatel-Lucent 800 MHz RRH |
| 125.000 | 125.000 | 6 | RFS FD9R6004/2C-3L (3.1 lbs) |
| 125.000 | 125.000 | 3 | Alcatel-Lucent B66a RRH4x45 |
| 125.000 | 125.000 | 1 | RFS DB-B1-6C-12AB-0Z |
| 125.000 | 125.000 | 3 | Alcatel-Lucent RRH2x60 700 |
| 125.000 | 125.000 | 3 | Nokia B5 RRH4x40-850 |
| 125.000 | 125.000 | 1 | Round Low Profile Platform |
| 125.000 | 125.000 | 1 | Antel LPA-80063/6CF |
| 125.000 | 125.000 | 2 | Antel LPA-80080/6CF |
| 112.000 | 112.000 | 1 | Round Low Profile Platform |
| 112.000 | 112.000 | 12 | Decibel DB844H90E-XY |
| 105.000 | 105.000 | 3 | RFS APXV18-206517S-C |
| 96.000 | 96.000 | 3 | Flat Side Arm |
| 96.000 | 96.000 | 1 | Bird 429-83H-01-T |
| 96.000 | 96.000 | 2 | Andrew DB586 |
| 79.000 | 79.000 | 1 | PCTEL GPS-TMG-HR-26N |

30.000 30.000 1 GPS



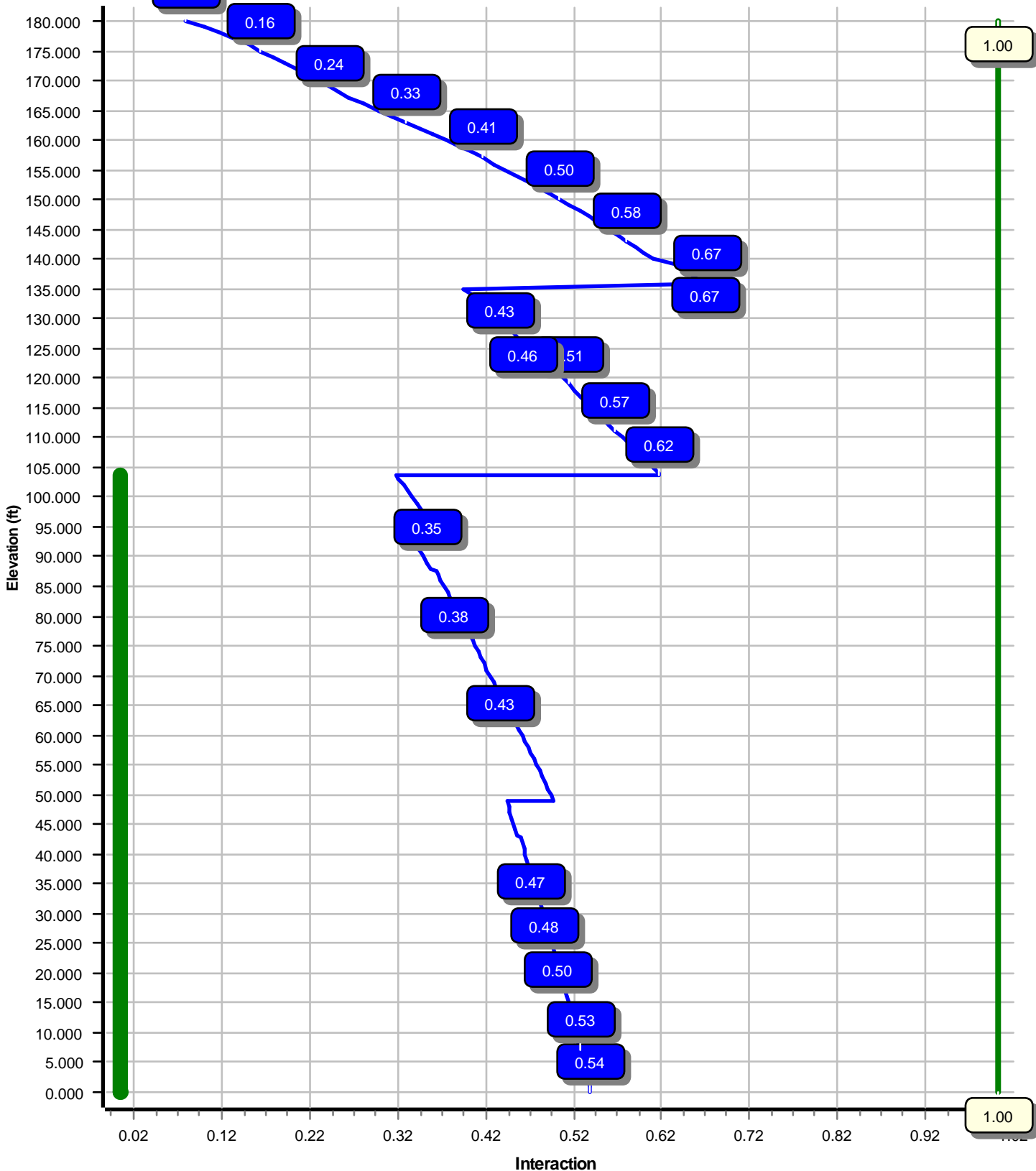
| Linear Appurtenance | | | |
|---------------------|--------|-------------------|-----------------|
| Elev (ft) | | Description | Exposed To Wind |
| From | To | | |
| 112.5 | 125.0 | 1 5/8" Coax | Yes |
| 112.5 | 167.0 | 1 5/8" Coax | Yes |
| 0.000 | 184.0 | 0.39" (10mm) | No |
| 0.000 | 184.0 | 0.40" Fiber Cable | No |
| 0.000 | 184.0 | 0.78" 8 AWG 6 | No |
| 0.000 | 184.0 | 0.78" 8 AWG 6 | No |
| 0.000 | 184.0 | 1 5/8" Coax | No |
| 0.000 | 184.0 | 3" Conduit | No |
| 0.000 | 135.0 | 1 1/4" Hybriflex | No |
| 0.000 | 135.0 | 7/8" Fiber | No |
| 0.000 | 140.0 | 1 5/8" Coax | No |
| 0.000 | 140.0 | 1/2" Coax | No |
| 0.000 | 140.0 | 3/8" Coax | No |
| 0.000 | 140.0 | 7/8" Coax | No |
| 0.000 | 150.0 | 1 5/8" Coax | No |
| 0.000 | 167.0 | 1 1/4" Hybriflex | No |
| 0.000 | 30.000 | 7/8" Coax | Yes |
| 0.000 | 79.000 | 1/2" Coax | No |
| 0.000 | 96.000 | 1/2" Coax | No |
| 0.000 | 96.000 | 7/8" Coax | No |
| 0.000 | 105.0 | 1 5/8" Coax | Yes |
| 0.000 | 112.0 | 1 1/4" Coax | Yes |
| 0.000 | 112.5 | 1 5/8" Coax | Yes |
| 0.000 | 112.5 | 1 5/8" Coax | Yes |
| 0.000 | 112.5 | Reinforcement | Yes |
| 0.000 | 125.0 | 1 5/8" Hybriflex | No |

| Load Cases | |
|-------------------------|--|
| 1.2D + 1.6W | 90 mph with No Ice |
| 0.9D + 1.6W | 90 mph with No Ice (Reduced DL) |
| 1.2D + 1.0Di + 1.0Wi | 40 mph with 1.00 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 | 3922.10 | 33.42 | 69.50 |
| 0.9D + 1.6W | 3769.71 | 31.95 | 52.12 |
| 1.2D + 1.0Di + 1.0Wi | 793.01 | 6.02 | 143.82 |
| (1.2 + 0.2Sds) * DL + E ELFM | 403.05 | 2.94 | 71.18 |
| (1.2 + 0.2Sds) * DL + E EMAM | 383.39 | 3.26 | 71.18 |
| (0.9 - 0.2Sds) * DL + E ELFM | 395.60 | 2.94 | 49.59 |
| (0.9 - 0.2Sds) * DL + E EMAM | 375.32 | 3.25 | 49.59 |
| 1.0D + 1.0W | 1056.35 | 8.91 | 57.93 |

| 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 66.87% at 135.9 ft



Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:31:27 PM

Customer: AT&T MOBILITY

Analysis Parameters

| | | | |
|--------------------|-----------------------|---------------------|-------|
| Location: | LITCHFIELD County, CT | Height (ft): | 180 |
| Code: | ANSI/TIA-222-G | Base Diameter (in): | 52.75 |
| Shape: | 18 Sides | Top Diameter (in): | 15.00 |
| Pole Type: | Taper | Taper (in/ft) : | 0.219 |
| Pole Manufacturer: | EEL | Rotation (deg) : | 0.00 |

Ice & Wind Parameters

| | | | |
|-----------------------|--------|--------------------------------|---------|
| Structure Class: | III | Design Wind Speed Without Ice: | 90 mph |
| Exposure Category: | B | Design Wind Speed With Ice: | 40 mph |
| Topographic Category: | 1 | Operational Wind Speed: | 60 mph |
| Crest Height: | 0.0 ft | Design Ice Thickness: | 1.00 in |

Seismic Parameters

| | | | |
|--|--|---------------------|-------|
| Analysis Method: | Equivalent Modal Analysis & Equivalent Lateral Force Methods | | |
| Site Class: | D - Stiff Soil | | |
| Period Based on Rayleigh Method (sec): | 2.66 | | |
| T _L (sec): | 6 | p: | 1.3 |
| S _s : | 0.177 | S ₁ : | 0.065 |
| F _a : | 1.600 | F _v : | 2.400 |
| S _{ds} : | 0.189 | S _{d1} : | 0.104 |
| | | C _s : | 0.039 |
| | | C _s Max: | 0.039 |
| | | C _s Min: | 0.030 |

Load Cases

| | |
|------------------------------|---|
| 1.2D + 1.6W | 90 mph with No Ice |
| 0.9D + 1.6W | 90 mph with No Ice (Reduced DL) |
| 1.2D + 1.0Di + 1.0Wi | 40 mph with 1.00 in Radial Ice |
| (1.2 + 0.2Sds) * DL + E ELFM | Seismic Equivalent Lateral Forces Method |
| (1.2 + 0.2Sds) * DL + E EMAM | Seismic Equivalent Modal Analysis Method |
| (0.9 - 0.2Sds) * DL + E ELFM | Seismic (Reduced DL) Equivalent Lateral Forces Method |
| (0.9 - 0.2Sds) * DL + E EMAM | Seismic (Reduced DL) Equivalent Modal Analysis Method |
| 1.0D + 1.0W | Serviceability 60 mph |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:31:28 PM

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 | | | | | | |
|--------------|-------------|------------|----------|------------|---------------------|-------------|----------|-----------|-------------------------|-----------------------|-----------|-----------|----------|-----------|-------------------------|-----------------------|-----------|-----------|---------------|
| | | | | | | | Dia (in) | Elev (ft) | Area (in ²) | Ix (in ⁴) | W/t Ratio | D/t Ratio | Dia (in) | Elev (ft) | Area (in ²) | Ix (in ⁴) | W/t Ratio | D/t Ratio | Taper (in/ft) |
| 1-18 | 49.040 | 0.4375 | 65 | | 0.00 | 10,875 | 52.75 | 0.00 | 72.64 | 25115.3 | 19.50 | 120.57 | 41.98 | 49.04 | 57.70 | 12585.4 | 15.16 | 95.97 | 0.219444 |
| 2-18 | 49.500 | 0.3750 | 65 | Slip | 73.00 | 7,672 | 44.07 | 42.96 | 52.01 | 12548.0 | 18.96 | 117.53 | 33.21 | 92.46 | 39.08 | 5323.8 | 13.85 | 88.56 | 0.219444 |
| 3-18 | 48.330 | 0.3125 | 65 | Slip | 59.00 | 4,779 | 34.91 | 87.54 | 34.32 | 5191.7 | 17.94 | 111.73 | 24.30 | 135.87 | 23.80 | 1731.6 | 11.95 | 77.79 | 0.219444 |
| 4-18 | 47.880 | 0.1875 | 65 | Slip | 45.00 | 1,946 | 25.50 | 132.12 | 15.07 | 1220.4 | 22.22 | 136.04 | 15.00 | 180.00 | 8.81 | 244.4 | 12.34 | 80.00 | 0.219444 |
| Shaft Weight | | | | | | 25,271 | | | | | | | | | | | | | |

Discrete Appurtenance Properties

| Attach Elev (ft) | Description | Qty | Weight (lb) | No Ice EPAa (sf) | Orientation Factor | Weight (lb) | Ice EPAa (sf) | Orientation Factor | Distance From Face (ft) | Vert Ecc (ft) |
|------------------|------------------------------|-----|-------------|------------------|--------------------|-------------|---------------|--------------------|-------------------------|---------------|
| 180.00 | 4' Omni | 1 | 10.00 | 1.000 | 1.00 | 135.13 | 2.602 | 1.00 | 0.000 | 7.000 |
| 180.00 | Andrew ABT-DMDF-ADBH | 1 | 1.10 | 0.050 | 0.50 | 17.77 | 0.288 | 0.50 | 0.000 | 4.000 |
| 180.00 | CCI HPA-65R-BUU-H6 | 3 | 51.00 | 9.660 | 0.69 | 521.12 | 12.071 | 0.69 | 0.000 | 4.000 |
| 180.00 | Ericsson RRUS 11 (Band 12) | 3 | 50.00 | 2.570 | 0.50 | 212.43 | 3.747 | 0.50 | 0.000 | 4.000 |
| 180.00 | Ericsson RRUS 32 (50.8 lbs) | 3 | 50.80 | 2.690 | 0.67 | 221.45 | 3.988 | 0.67 | 0.000 | 4.000 |
| 180.00 | Ericsson RRUS-12 B2 | 3 | 58.00 | 3.150 | 0.50 | 195.55 | 5.124 | 0.50 | 0.000 | 4.000 |
| 180.00 | Flat Low Profile Platform | 1 | 1500.00 | 26.100 | 1.00 | 2,601.64 | 58.563 | 1.00 | 0.000 | 4.000 |
| 180.00 | KMW AM-X-CD-16-65-00T- | 3 | 48.50 | 8.020 | 0.67 | 415.18 | 10.316 | 0.67 | 0.000 | 4.000 |
| 180.00 | Powerwave Allgon 7770.00 | 3 | 35.00 | 5.510 | 0.65 | 301.91 | 7.390 | 0.65 | 0.000 | 4.000 |
| 180.00 | Powerwave Allgon LGP21401 | 3 | 14.10 | 1.100 | 0.50 | 87.82 | 1.954 | 0.50 | 0.000 | 4.000 |
| 180.00 | Powerwave Allgon TT19- | 3 | 16.00 | 0.640 | 0.50 | 77.89 | 1.206 | 0.50 | 0.000 | 4.000 |
| 180.00 | Raycap DC6-48-60-18-8F | 2 | 20.00 | 1.110 | 1.00 | 181.17 | 3.028 | 1.00 | 0.000 | 4.000 |
| 167.00 | Ericsson AIR 21, 1.3 M, B2A | 3 | 83.00 | 6.050 | 0.71 | 406.54 | 7.981 | 0.71 | 0.000 | 0.000 |
| 167.00 | Ericsson AIR 21, 1.3M, B4A | 3 | 81.50 | 6.090 | 0.70 | 404.96 | 8.027 | 0.70 | 0.000 | 0.000 |
| 167.00 | Ericsson KRY 112 144/1 | 3 | 11.00 | 0.410 | 0.50 | 50.04 | 0.895 | 0.50 | 0.000 | 0.000 |
| 167.00 | Round T-Arm | 3 | 250.00 | 9.700 | 0.67 | 602.70 | 23.613 | 0.67 | 0.000 | 0.000 |
| 150.00 | Round Side Arm | 1 | 150.00 | 5.200 | 0.67 | 272.12 | 9.736 | 0.67 | 0.000 | 0.000 |
| 150.00 | Sinclair SD210-SF2P4SNM | 1 | 8.30 | 1.370 | 1.00 | 85.68 | 8.950 | 1.00 | 0.000 | 0.000 |
| 140.00 | Bird 432-83H-01-T | 2 | 25.00 | 1.400 | 0.50 | 96.87 | 2.700 | 0.50 | 0.000 | 1.000 |
| 140.00 | Decibel DB809DK-XT | 2 | 64.00 | 6.350 | 1.00 | 390.37 | 18.907 | 1.00 | 0.000 | 9.000 |
| 140.00 | Round Side Arm | 3 | 150.00 | 5.200 | 0.67 | 271.28 | 9.705 | 0.67 | 0.000 | 0.000 |
| 140.00 | Sinclair SC432D-HF6LDF (I40- | 1 | 34.00 | 5.030 | 1.00 | 462.70 | 12.311 | 1.00 | 0.000 | 9.000 |
| 140.00 | Telewave ANT150D (5 lbs) | 1 | 5.00 | 1.090 | 0.50 | 19.37 | 2.102 | 0.50 | 0.000 | 1.000 |
| 135.00 | Alcatel-Lucent 1900MHz RRH | 3 | 44.00 | 3.260 | 0.50 | 276.93 | 3.659 | 0.50 | 0.000 | 0.000 |
| 135.00 | Alcatel-Lucent 800 MHz RRH | 3 | 61.80 | 2.500 | 0.50 | 259.82 | 3.210 | 0.50 | 0.000 | 0.000 |
| 135.00 | Alcatel-Lucent TD-RRH8x20- | 3 | 70.00 | 4.050 | 0.50 | 226.13 | 6.245 | 0.50 | 0.000 | 0.000 |
| 135.00 | Flat Platform w/ Handrails | 1 | 2000.00 | 31.600 | 1.00 | 4,347.72 | 57.421 | 1.00 | 0.000 | 0.000 |
| 135.00 | RFS APXVSP18-C-A20 | 3 | 57.00 | 8.020 | 0.69 | 428.43 | 10.244 | 0.69 | 0.000 | 0.000 |
| 135.00 | RFS APXVTM14-C-I20 | 3 | 52.90 | 6.340 | 0.66 | 280.35 | 9.937 | 0.66 | 0.000 | 0.000 |
| 125.00 | Alcatel-Lucent B66a | 3 | 67.00 | 2.660 | 0.50 | 228.82 | 3.895 | 0.50 | 0.000 | 0.000 |
| 125.00 | Alcatel-Lucent RRH2x60 700 | 3 | 56.70 | 2.150 | 0.50 | 211.07 | 3.236 | 0.50 | 0.000 | 0.000 |
| 125.00 | Antel LPA-80063/6CF | 1 | 27.00 | 9.590 | 0.76 | 542.79 | 11.899 | 0.76 | 0.000 | 0.000 |
| 125.00 | Antel LPA-80080/6CF | 2 | 21.00 | 8.630 | 0.65 | 380.57 | 6.366 | 0.65 | 0.000 | 0.000 |
| 125.00 | Nokia B5 RRH4x40-850 | 3 | 48.50 | 1.320 | 0.50 | 149.79 | 2.174 | 0.50 | 0.000 | 0.000 |
| 125.00 | RFS DB-B1-6C-12AB-0Z | 1 | 21.40 | 2.510 | 0.67 | 197.49 | 3.639 | 0.67 | 0.000 | 0.000 |
| 125.00 | RFS FD9R6004/2C-3L (3.1 lbs) | 6 | 3.10 | 0.360 | 0.69 | 34.00 | 0.811 | 0.69 | 0.000 | 0.000 |
| 125.00 | Round Low Profile Platform | 1 | 1500.00 | 21.700 | 1.00 | 2,562.06 | 53.172 | 1.00 | 0.000 | 0.000 |
| 112.00 | Decibel DB844H90E-XY | 12 | 14.00 | 3.610 | 0.74 | 221.33 | 4.536 | 0.74 | 0.000 | 0.000 |
| 112.00 | Round Low Profile Platform | 1 | 1500.00 | 21.700 | 1.00 | 2,550.41 | 52.827 | 1.00 | 0.000 | 0.000 |
| 105.00 | RFS APXV18-206517S-C | 3 | 26.40 | 5.160 | 0.68 | 250.66 | 7.224 | 0.68 | 0.000 | 0.000 |
| 96.00 | Andrew DB586 | 2 | 8.30 | 0.740 | 1.00 | 108.36 | 2.685 | 1.00 | 0.000 | 0.000 |
| 96.00 | Bird 429-83H-01-T | 1 | 20.00 | 0.920 | 0.50 | 101.04 | 1.699 | 0.50 | 0.000 | 0.000 |
| 96.00 | Flat Side Arm | 3 | 150.00 | 6.300 | 0.67 | 266.77 | 10.224 | 0.67 | 0.000 | 0.000 |
| 79.00 | PCTEL GPS-TMG-HR-26N | 1 | 0.60 | 0.090 | 1.00 | 24.30 | 0.495 | 1.00 | 0.000 | 0.000 |
| 30.00 | GPS | 1 | 10.00 | 1.000 | 1.00 | 72.80 | 1.524 | 1.00 | 0.000 | 0.000 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:31:28 PM

Customer: AT&T MOBILITY

Totals 112 11850.20

38,210.68

Number of Loadings : 45

Linear Appurtenance Properties

| Elev From (ft) | Elev To (ft) | Qty | Description | Coax Diameter (in) | Coax Weight (lb/ft) | Flat | Projected Width (in) | Exposed To Wind | Carrier |
|----------------|--------------|-----|--------------------|--------------------|---------------------|------|----------------------|-----------------|----------------------------|
| 0.00 | 184.00 | 1 | 0.39" (10mm) Fiber | 0.39 | 0.06 | N | 0.00 | N | AT&T Mobility |
| 0.00 | 184.00 | 1 | 0.40" Fiber Cable | 0.40 | 0.09 | N | 0.00 | N | AT&T Mobility |
| 0.00 | 184.00 | 2 | 0.78" 8 AWG 6 | 0.78 | 0.59 | N | 0.00 | N | AT&T Mobility |
| 0.00 | 184.00 | 2 | 0.78" 8 AWG 6 | 0.78 | 0.59 | N | 0.00 | N | AT&T Mobility |
| 0.00 | 184.00 | 12 | 1 5/8" Coax | 1.98 | 0.82 | N | 0.00 | N | AT&T Mobility |
| 0.00 | 184.00 | 1 | 3" Conduit | 3.50 | 7.58 | N | 0.00 | N | AT&T Mobility |
| 0.00 | 167.00 | 1 | 1 1/4" Hybriflex | 1.54 | 1.00 | N | 0.00 | N | T-Mobile |
| 112.50 | 167.00 | 12 | 1 5/8" Coax | 1.98 | 0.82 | N | 3.96 | Y | T-Mobile |
| 0.00 | 150.00 | 1 | 1 5/8" Coax | 1.98 | 0.82 | N | 0.00 | N | Litchfield County Dispatch |
| 0.00 | 140.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 0.00 | N | CT Police Dept. |
| 0.00 | 140.00 | 1 | 1/2" Coax | 0.63 | 0.15 | N | 0.00 | N | CT Police Dept. |
| 0.00 | 140.00 | 2 | 3/8" Coax | 0.44 | 0.08 | N | 0.00 | N | CT Police Dept. |
| 0.00 | 140.00 | 1 | 7/8" Coax | 1.09 | 0.33 | N | 0.00 | N | CT Police Dept. |
| 0.00 | 135.00 | 3 | 1 1/4" Hybriflex | 1.54 | 1.00 | N | 0.00 | N | Sprint Nextel |
| 0.00 | 135.00 | 1 | 7/8" Fiber | 0.88 | 0.70 | N | 0.00 | N | Sprint Nextel |
| 0.00 | 125.00 | 1 | 1 5/8" Hybriflex | 1.98 | 1.30 | N | 0.00 | N | Verizon |
| 112.50 | 125.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 3.96 | Y | Verizon |
| 0.00 | 112.50 | 12 | 1 5/8" Coax | 1.98 | 0.82 | N | 0.00 | Y | T-Mobile |
| 0.00 | 112.50 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 0.00 | Y | Verizon |
| 0.00 | 112.50 | 1 | Reinforcement | 9.27 | 43.00 | N | 3.35 | Y | -- |
| 0.00 | 112.00 | 12 | 1 1/4" Coax | 1.55 | 0.63 | N | 4.65 | Y | Sprint Nextel |
| 0.00 | 105.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 0.00 | Y | Metro PCS |
| 0.00 | 96.00 | 1 | 1/2" Coax | 0.63 | 0.15 | N | 0.00 | N | Eversource Energy |
| 0.00 | 96.00 | 2 | 7/8" Coax | 1.09 | 0.33 | N | 0.00 | N | Eversource Energy |
| 0.00 | 79.00 | 1 | 1/2" Coax | 0.63 | 0.15 | N | 0.00 | N | Sprint Nextel |
| 0.00 | 30.00 | 1 | 7/8" Coax | 1.09 | 0.33 | N | 0.00 | Y | Verizon |

Additional Steel

| Elev From (ft) | Elev To (ft) | Qty | Description | Fy (ksi) | Offset (in) | — Intermediate Connections — | | | Connectors | Continuation? |
|----------------|--------------|-----|--------------------|----------|-------------|------------------------------|----------|------|-----------------|---------------|
| | | | Description | | | Spacing (in) | Len (in) | | | |
| 0.00 | 103.7 | 4 | SOL #20 All Thread | 80 | 2.19 | 6" Angle Bracket | 30.0 | 3.13 | 5/8" A36 U-Bolt | No |

Segment Properties (Max Len : 1.ft)

| Seg Top Elev (ft) | Description | Thick (in) | Flat Dia (in) | Area (in ²) | Ix (in ⁴) | W/t Ratio | D/t Ratio | F'y (ksi) | S (in ³) | Z (in ³) | Weight (lb) | Additional Reinforcing | | |
|-------------------|-----------------|------------|---------------|-------------------------|-----------------------|-----------|-----------|-----------|----------------------|----------------------|-------------|-------------------------|-----------------------|-------------|
| | | | | | | | | | | | | Area (in ²) | Ix (in ⁴) | Weight (lb) |
| 0.00 | | 0.4375 | 52.750 | 72.640 | 25,115.3 | 19.50 | 120.57 | 78.5 | 937.8 | 0.0 | 0.0 | 19.64 | 8,846 | 0.0 |
| 1.00 | | 0.4375 | 52.531 | 72.335 | 24,800.6 | 19.41 | 120.07 | 78.6 | 929.9 | 0.0 | 246.7 | 19.64 | 8,781 | 66.8 |
| 2.00 | | 0.4375 | 52.311 | 72.030 | 24,488.5 | 19.32 | 119.57 | 78.7 | 922.0 | 0.0 | 245.6 | 19.64 | 8,715 | 66.8 |
| 3.00 | | 0.4375 | 52.092 | 71.726 | 24,179.0 | 19.23 | 119.07 | 78.8 | 914.2 | 0.0 | 244.6 | 19.64 | 8,650 | 66.8 |
| 4.00 | | 0.4375 | 51.872 | 71.421 | 23,872.2 | 19.14 | 118.57 | 78.9 | 906.4 | 0.0 | 243.5 | 19.64 | 8,585 | 66.8 |
| 5.00 | | 0.4375 | 51.653 | 71.116 | 23,567.9 | 19.05 | 118.06 | 79.0 | 898.7 | 0.0 | 242.5 | 19.64 | 8,521 | 66.8 |
| 6.00 | | 0.4375 | 51.433 | 70.812 | 23,266.3 | 18.97 | 117.56 | 79.1 | 891.0 | 0.0 | 241.5 | 19.64 | 8,457 | 66.8 |
| 7.00 | | 0.4375 | 51.214 | 70.507 | 22,967.2 | 18.88 | 117.06 | 79.2 | 883.3 | 0.0 | 240.4 | 19.64 | 8,393 | 66.8 |
| 8.00 | | 0.4375 | 50.994 | 70.202 | 22,670.7 | 18.79 | 116.56 | 79.3 | 875.6 | 0.0 | 239.4 | 19.64 | 8,329 | 66.8 |
| 9.00 | | 0.4375 | 50.775 | 69.897 | 22,376.8 | 18.70 | 116.06 | 79.4 | 868.0 | 0.0 | 238.4 | 19.64 | 8,265 | 66.8 |
| 10.00 | | 0.4375 | 50.556 | 69.593 | 22,085.4 | 18.61 | 115.56 | 79.5 | 860.4 | 0.0 | 237.3 | 19.64 | 8,202 | 66.8 |
| 11.00 | | 0.4375 | 50.336 | 69.288 | 21,796.6 | 18.52 | 115.05 | 79.6 | 852.9 | 0.0 | 236.3 | 19.64 | 8,139 | 66.8 |
| 12.00 | | 0.4375 | 50.117 | 68.983 | 21,510.2 | 18.44 | 114.55 | 79.7 | 845.4 | 0.0 | 235.3 | 19.64 | 8,076 | 66.8 |
| 13.00 | | 0.4375 | 49.897 | 68.679 | 21,226.5 | 18.35 | 114.05 | 79.8 | 837.9 | 0.0 | 234.2 | 19.64 | 8,013 | 66.8 |
| 14.00 | | 0.4375 | 49.678 | 68.374 | 20,945.2 | 18.26 | 113.55 | 79.9 | 830.4 | 0.0 | 233.2 | 19.64 | 7,951 | 66.8 |
| 15.00 | | 0.4375 | 49.458 | 68.069 | 20,666.4 | 18.17 | 113.05 | 80.0 | 823.0 | 0.0 | 232.1 | 19.64 | 7,889 | 66.8 |
| 16.00 | | 0.4375 | 49.239 | 67.764 | 20,390.1 | 18.08 | 112.55 | 80.1 | 815.6 | 0.0 | 231.1 | 19.64 | 7,827 | 66.8 |
| 17.00 | | 0.4375 | 49.019 | 67.460 | 20,116.3 | 17.99 | 112.04 | 80.2 | 808.3 | 0.0 | 230.1 | 19.64 | 7,765 | 66.8 |
| 18.00 | | 0.4375 | 48.800 | 67.155 | 19,844.9 | 17.90 | 111.54 | 80.3 | 801.0 | 0.0 | 229.0 | 19.64 | 7,704 | 66.8 |
| 19.00 | | 0.4375 | 48.581 | 66.850 | 19,576.0 | 17.82 | 111.04 | 80.4 | 793.7 | 0.0 | 228.0 | 19.64 | 7,643 | 66.8 |
| 20.00 | | 0.4375 | 48.361 | 66.546 | 19,309.5 | 17.73 | 110.54 | 80.5 | 786.4 | 0.0 | 227.0 | 19.64 | 7,582 | 66.8 |
| 21.00 | | 0.4375 | 48.142 | 66.241 | 19,045.5 | 17.64 | 110.04 | 80.7 | 779.2 | 0.0 | 225.9 | 19.64 | 7,521 | 66.8 |
| 22.00 | | 0.4375 | 47.922 | 65.936 | 18,783.8 | 17.55 | 109.54 | 80.8 | 772.0 | 0.0 | 224.9 | 19.64 | 7,461 | 66.8 |
| 23.00 | | 0.4375 | 47.703 | 65.631 | 18,524.6 | 17.46 | 109.03 | 80.9 | 764.9 | 0.0 | 223.8 | 19.64 | 7,401 | 66.8 |
| 24.00 | | 0.4375 | 47.483 | 65.327 | 18,267.8 | 17.37 | 108.53 | 81.0 | 757.8 | 0.0 | 222.8 | 19.64 | 7,341 | 66.8 |
| 25.00 | | 0.4375 | 47.264 | 65.022 | 18,013.3 | 17.29 | 108.03 | 81.1 | 750.7 | 0.0 | 221.8 | 19.64 | 7,281 | 66.8 |
| 26.00 | | 0.4375 | 47.044 | 64.717 | 17,761.3 | 17.20 | 107.53 | 81.2 | 743.6 | 0.0 | 220.7 | 19.64 | 7,222 | 66.8 |
| 27.00 | | 0.4375 | 46.825 | 64.413 | 17,511.6 | 17.11 | 107.03 | 81.3 | 736.6 | 0.0 | 219.7 | 19.64 | 7,162 | 66.8 |
| 28.00 | | 0.4375 | 46.606 | 64.108 | 17,264.2 | 17.02 | 106.53 | 81.4 | 729.6 | 0.0 | 218.7 | 19.64 | 7,103 | 66.8 |
| 29.00 | | 0.4375 | 46.386 | 63.803 | 17,019.2 | 16.93 | 106.03 | 81.5 | 722.7 | 0.0 | 217.6 | 19.64 | 7,045 | 66.8 |
| 30.00 | | 0.4375 | 46.167 | 63.498 | 16,776.5 | 16.84 | 105.52 | 81.6 | 715.7 | 0.0 | 216.6 | 19.64 | 6,986 | 66.8 |
| 31.00 | | 0.4375 | 45.947 | 63.194 | 16,536.2 | 16.75 | 105.02 | 81.7 | 708.9 | 0.0 | 215.6 | 19.64 | 6,928 | 66.8 |
| 32.00 | | 0.4375 | 45.728 | 62.889 | 16,298.1 | 16.67 | 104.52 | 81.8 | 702.0 | 0.0 | 214.5 | 19.64 | 6,870 | 66.8 |
| 33.00 | | 0.4375 | 45.508 | 62.584 | 16,062.4 | 16.58 | 104.02 | 81.9 | 695.2 | 0.0 | 213.5 | 19.64 | 6,812 | 66.8 |
| 34.00 | | 0.4375 | 45.289 | 62.280 | 15,828.9 | 16.49 | 103.52 | 82.0 | 688.4 | 0.0 | 212.4 | 19.64 | 6,755 | 66.8 |
| 35.00 | | 0.4375 | 45.069 | 61.975 | 15,597.7 | 16.40 | 103.02 | 82.1 | 681.6 | 0.0 | 211.4 | 19.64 | 6,698 | 66.8 |
| 36.00 | | 0.4375 | 44.850 | 61.670 | 15,368.7 | 16.31 | 102.51 | 82.2 | 674.9 | 0.0 | 210.4 | 19.64 | 6,641 | 66.8 |
| 37.00 | | 0.4375 | 44.631 | 61.365 | 15,142.0 | 16.22 | 102.01 | 82.3 | 668.2 | 0.0 | 209.3 | 19.64 | 6,584 | 66.8 |
| 38.00 | | 0.4375 | 44.411 | 61.061 | 14,917.6 | 16.14 | 101.51 | 82.4 | 661.6 | 0.0 | 208.3 | 19.64 | 6,527 | 66.8 |
| 39.00 | | 0.4375 | 44.192 | 60.756 | 14,695.4 | 16.05 | 101.01 | 82.5 | 655.0 | 0.0 | 207.3 | 19.64 | 6,471 | 66.8 |
| 40.00 | | 0.4375 | 43.972 | 60.451 | 14,475.4 | 15.96 | 100.51 | 82.6 | 648.4 | 0.0 | 206.2 | 19.64 | 6,415 | 66.8 |
| 41.00 | | 0.4375 | 43.753 | 60.147 | 14,257.6 | 15.87 | 100.01 | 82.6 | 641.8 | 0.0 | 205.2 | 19.64 | 6,359 | 66.8 |
| 42.00 | | 0.4375 | 43.533 | 59.842 | 14,042.0 | 15.78 | 99.50 | 82.6 | 635.3 | 0.0 | 204.1 | 19.64 | 6,304 | 66.8 |
| 42.96 | Bot - Section 2 | 0.4375 | 43.323 | 59.550 | 13,837.8 | 15.70 | 99.02 | 82.6 | 629.1 | 0.0 | 194.3 | 19.64 | 6,251 | 63.9 |
| 43.00 | | 0.4375 | 43.314 | 59.537 | 13,828.6 | 15.69 | 99.00 | 82.6 | 628.8 | 0.0 | 16.5 | 19.64 | 6,439 | 2.9 |
| 44.00 | | 0.4375 | 43.094 | 59.232 | 13,617.3 | 15.61 | 98.50 | 82.6 | 622.4 | 0.0 | 378.6 | 19.64 | 6,383 | 66.8 |
| 45.00 | | 0.4375 | 42.875 | 58.928 | 13,408.2 | 15.52 | 98.00 | 82.6 | 616.0 | 0.0 | 376.6 | 19.64 | 6,327 | 66.8 |
| 46.00 | | 0.4375 | 42.656 | 58.623 | 13,201.3 | 15.43 | 97.50 | 82.6 | 609.6 | 0.0 | 374.7 | 19.64 | 6,272 | 66.8 |
| 47.00 | | 0.4375 | 42.436 | 58.318 | 12,996.5 | 15.34 | 97.00 | 82.6 | 603.2 | 0.0 | 372.8 | 19.64 | 6,216 | 66.8 |
| 48.00 | | 0.4375 | 42.217 | 58.014 | 12,793.9 | 15.25 | 96.50 | 82.6 | 596.9 | 0.0 | 370.9 | 19.64 | 6,162 | 66.8 |
| 49.00 | | 0.4375 | 41.997 | 57.709 | 12,593.3 | 15.16 | 95.99 | 82.6 | 590.6 | 0.0 | 368.9 | 19.64 | 6,107 | 66.8 |
| 49.04 | Top - Section 1 | 0.3750 | 42.738 | 50.421 | 11,432.7 | 18.33 | 113.97 | 79.8 | 526.9 | 0.0 | 14.7 | 19.64 | 6,105 | 2.7 |
| 50.00 | | 0.3750 | 42.528 | 50.171 | 11,263.0 | 18.23 | 113.41 | 80.0 | 521.6 | 0.0 | 164.3 | 19.64 | 6,053 | 64.1 |
| 51.00 | | 0.3750 | 42.308 | 49.909 | 11,088.0 | 18.13 | 112.82 | 80.1 | 516.2 | 0.0 | 170.3 | 19.64 | 5,998 | 66.8 |
| 52.00 | | 0.3750 | 42.089 | 49.648 | 10,914.8 | 18.03 | 112.24 | 80.2 | 510.8 | 0.0 | 169.4 | 19.64 | 5,944 | 66.8 |
| 53.00 | | 0.3750 | 41.869 | 49.387 | 10,743.5 | 17.92 | 111.65 | 80.3 | 505.4 | 0.0 | 168.5 | 19.64 | 5,891 | 66.8 |
| 54.00 | | 0.3750 | 41.650 | 49.126 | 10,573.9 | 17.82 | 111.07 | 80.4 | 500.0 | 0.0 | 167.6 | 19.64 | 5,837 | 66.8 |
| 55.00 | | 0.3750 | 41.431 | 48.865 | 10,406.2 | 17.72 | 110.48 | 80.6 | 494.7 | 0.0 | 166.7 | 19.64 | 5,784 | 66.8 |

| | | | | | | | | | | | | | | |
|-------|-----------------|--------|--------|--------|----------|-------|--------|------|-------|-----|-------|-------|-------|------|
| 56.00 | | 0.3750 | 41.211 | 48.603 | 10,240.2 | 17.61 | 109.90 | 80.7 | 489.4 | 0.0 | 165.8 | 19.64 | 5,731 | 66.8 |
| 57.00 | | 0.3750 | 40.992 | 48.342 | 10,076.0 | 17.51 | 109.31 | 80.8 | 484.1 | 0.0 | 164.9 | 19.64 | 5,678 | 66.8 |
| 58.00 | | 0.3750 | 40.772 | 48.081 | 9,913.6 | 17.41 | 108.73 | 80.9 | 478.9 | 0.0 | 164.1 | 19.64 | 5,626 | 66.8 |
| 59.00 | | 0.3750 | 40.553 | 47.820 | 9,752.9 | 17.30 | 108.14 | 81.0 | 473.7 | 0.0 | 163.2 | 19.64 | 5,574 | 66.8 |
| 60.00 | | 0.3750 | 40.333 | 47.559 | 9,594.0 | 17.20 | 107.56 | 81.2 | 468.5 | 0.0 | 162.3 | 19.64 | 5,522 | 66.8 |
| 61.00 | | 0.3750 | 40.114 | 47.298 | 9,436.8 | 17.10 | 106.97 | 81.3 | 463.4 | 0.0 | 161.4 | 19.64 | 5,470 | 66.8 |
| 62.00 | | 0.3750 | 39.894 | 47.036 | 9,281.3 | 17.00 | 106.39 | 81.4 | 458.2 | 0.0 | 160.5 | 19.64 | 5,419 | 66.8 |
| 63.00 | | 0.3750 | 39.675 | 46.775 | 9,127.5 | 16.89 | 105.80 | 81.5 | 453.1 | 0.0 | 159.6 | 19.64 | 5,367 | 66.8 |
| 64.00 | | 0.3750 | 39.456 | 46.514 | 8,975.5 | 16.79 | 105.21 | 81.7 | 448.1 | 0.0 | 158.7 | 19.64 | 5,316 | 66.8 |
| 65.00 | | 0.3750 | 39.236 | 46.253 | 8,825.1 | 16.69 | 104.63 | 81.8 | 443.0 | 0.0 | 157.8 | 19.64 | 5,266 | 66.8 |
| 66.00 | | 0.3750 | 39.017 | 45.992 | 8,676.5 | 16.58 | 104.04 | 81.9 | 438.0 | 0.0 | 156.9 | 19.64 | 5,215 | 66.8 |
| 67.00 | | 0.3750 | 38.797 | 45.730 | 8,529.5 | 16.48 | 103.46 | 82.0 | 433.0 | 0.0 | 156.1 | 19.64 | 5,165 | 66.8 |
| 68.00 | | 0.3750 | 38.578 | 45.469 | 8,384.2 | 16.38 | 102.87 | 82.1 | 428.1 | 0.0 | 155.2 | 19.64 | 5,115 | 66.8 |
| 69.00 | | 0.3750 | 38.358 | 45.208 | 8,240.5 | 16.27 | 102.29 | 82.3 | 423.1 | 0.0 | 154.3 | 19.64 | 5,065 | 66.8 |
| 70.00 | | 0.3750 | 38.139 | 44.947 | 8,098.5 | 16.17 | 101.70 | 82.4 | 418.2 | 0.0 | 153.4 | 19.64 | 5,015 | 66.8 |
| 71.00 | | 0.3750 | 37.919 | 44.686 | 7,958.2 | 16.07 | 101.12 | 82.5 | 413.4 | 0.0 | 152.5 | 19.64 | 4,966 | 66.8 |
| 72.00 | | 0.3750 | 37.700 | 44.424 | 7,819.4 | 15.96 | 100.53 | 82.6 | 408.5 | 0.0 | 151.6 | 19.64 | 4,917 | 66.8 |
| 73.00 | | 0.3750 | 37.481 | 44.163 | 7,682.3 | 15.86 | 99.95 | 82.6 | 403.7 | 0.0 | 150.7 | 19.64 | 4,868 | 66.8 |
| 74.00 | | 0.3750 | 37.261 | 43.902 | 7,546.8 | 15.76 | 99.36 | 82.6 | 398.9 | 0.0 | 149.8 | 19.64 | 4,820 | 66.8 |
| 75.00 | | 0.3750 | 37.042 | 43.641 | 7,412.9 | 15.65 | 98.78 | 82.6 | 394.2 | 0.0 | 148.9 | 19.64 | 4,771 | 66.8 |
| 76.00 | | 0.3750 | 36.822 | 43.380 | 7,280.6 | 15.55 | 98.19 | 82.6 | 389.4 | 0.0 | 148.1 | 19.64 | 4,723 | 66.8 |
| 77.00 | | 0.3750 | 36.603 | 43.119 | 7,149.9 | 15.45 | 97.61 | 82.6 | 384.7 | 0.0 | 147.2 | 19.64 | 4,675 | 66.8 |
| 78.00 | | 0.3750 | 36.383 | 42.857 | 7,020.8 | 15.34 | 97.02 | 82.6 | 380.1 | 0.0 | 146.3 | 19.64 | 4,628 | 66.8 |
| 79.00 | | 0.3750 | 36.164 | 42.596 | 6,893.2 | 15.24 | 96.44 | 82.6 | 375.4 | 0.0 | 145.4 | 19.64 | 4,581 | 66.8 |
| 80.00 | | 0.3750 | 35.944 | 42.335 | 6,767.2 | 15.14 | 95.85 | 82.6 | 370.8 | 0.0 | 144.5 | 19.64 | 4,533 | 66.8 |
| 81.00 | | 0.3750 | 35.725 | 42.074 | 6,642.7 | 15.03 | 95.27 | 82.6 | 366.2 | 0.0 | 143.6 | 19.64 | 4,487 | 66.8 |
| 82.00 | | 0.3750 | 35.506 | 41.813 | 6,519.7 | 14.93 | 94.68 | 82.6 | 361.7 | 0.0 | 142.7 | 19.64 | 4,440 | 66.8 |
| 83.00 | | 0.3750 | 35.286 | 41.551 | 6,398.3 | 14.83 | 94.10 | 82.6 | 357.1 | 0.0 | 141.8 | 19.64 | 4,394 | 66.8 |
| 84.00 | | 0.3750 | 35.067 | 41.290 | 6,278.4 | 14.73 | 93.51 | 82.6 | 352.6 | 0.0 | 140.9 | 19.64 | 4,348 | 66.8 |
| 85.00 | | 0.3750 | 34.847 | 41.029 | 6,160.0 | 14.62 | 92.93 | 82.6 | 348.2 | 0.0 | 140.1 | 19.64 | 4,302 | 66.8 |
| 86.00 | | 0.3750 | 34.628 | 40.768 | 6,043.1 | 14.52 | 92.34 | 82.6 | 343.7 | 0.0 | 139.2 | 19.64 | 4,256 | 66.8 |
| 87.00 | | 0.3750 | 34.408 | 40.507 | 5,927.7 | 14.42 | 91.76 | 82.6 | 339.3 | 0.0 | 138.3 | 19.64 | 4,211 | 66.8 |
| 87.54 | Bot - Section 3 | 0.3750 | 34.290 | 40.366 | 5,866.0 | 14.36 | 91.44 | 82.6 | 336.9 | 0.0 | 74.3 | 19.64 | 4,186 | 36.1 |
| 88.00 | | 0.3750 | 34.189 | 40.246 | 5,813.8 | 14.31 | 91.17 | 82.6 | 334.9 | 0.0 | 116.8 | 19.64 | 4,295 | 30.7 |
| 89.00 | | 0.3750 | 33.969 | 39.984 | 5,701.4 | 14.21 | 90.59 | 82.6 | 330.6 | 0.0 | 252.6 | 19.64 | 4,249 | 66.8 |
| 90.00 | | 0.3750 | 33.750 | 39.723 | 5,590.4 | 14.11 | 90.00 | 82.6 | 326.2 | 0.0 | 250.9 | 19.64 | 4,204 | 66.8 |
| 91.00 | | 0.3750 | 33.531 | 39.462 | 5,480.8 | 14.00 | 89.41 | 82.6 | 321.9 | 0.0 | 249.3 | 19.64 | 4,159 | 66.8 |
| 92.00 | | 0.3750 | 33.311 | 39.201 | 5,372.7 | 13.90 | 88.83 | 82.6 | 317.7 | 0.0 | 247.7 | 19.64 | 4,114 | 66.8 |
| 92.46 | Top - Section 2 | 0.3125 | 33.836 | 33.250 | 4,721.1 | 17.33 | 108.27 | 81.0 | 274.8 | 0.0 | 112.5 | 19.64 | 4,093 | 30.5 |
| 93.00 | | 0.3125 | 33.717 | 33.132 | 4,670.9 | 17.26 | 107.89 | 81.1 | 272.9 | 0.0 | 61.4 | 19.64 | 4,069 | 36.3 |
| 94.00 | | 0.3125 | 33.497 | 32.914 | 4,579.4 | 17.14 | 107.19 | 81.2 | 269.3 | 0.0 | 112.4 | 19.64 | 4,025 | 66.8 |
| 95.00 | | 0.3125 | 33.278 | 32.696 | 4,489.2 | 17.01 | 106.49 | 81.4 | 265.7 | 0.0 | 111.6 | 19.64 | 3,981 | 66.8 |
| 96.00 | | 0.3125 | 33.058 | 32.479 | 4,400.1 | 16.89 | 105.79 | 81.5 | 262.2 | 0.0 | 110.9 | 19.64 | 3,937 | 66.8 |
| 97.00 | | 0.3125 | 32.839 | 32.261 | 4,312.2 | 16.77 | 105.08 | 81.7 | 258.6 | 0.0 | 110.1 | 19.64 | 3,893 | 66.8 |
| 98.00 | | 0.3125 | 32.619 | 32.043 | 4,225.5 | 16.64 | 104.38 | 81.8 | 255.1 | 0.0 | 109.4 | 19.64 | 3,850 | 66.8 |
| 99.00 | | 0.3125 | 32.400 | 31.826 | 4,140.0 | 16.52 | 103.68 | 82.0 | 251.7 | 0.0 | 108.7 | 19.64 | 3,806 | 66.8 |
| 100.0 | | 0.3125 | 32.181 | 31.608 | 4,055.7 | 16.39 | 102.98 | 82.1 | 248.2 | 0.0 | 107.9 | 19.64 | 3,764 | 66.8 |
| 101.0 | | 0.3125 | 31.961 | 31.390 | 3,972.4 | 16.27 | 102.28 | 82.3 | 244.8 | 0.0 | 107.2 | 19.64 | 3,721 | 66.8 |
| 102.0 | | 0.3125 | 31.742 | 31.173 | 3,890.4 | 16.15 | 101.57 | 82.4 | 241.4 | 0.0 | 106.4 | 19.64 | 3,678 | 66.8 |
| 103.0 | | 0.3125 | 31.522 | 30.955 | 3,809.5 | 16.02 | 100.87 | 82.6 | 238.0 | 0.0 | 105.7 | 19.64 | 3,636 | 66.8 |
| 103.7 | Reinf. Top | 0.3125 | 31.358 | 30.792 | 3,749.5 | 15.93 | 100.34 | 82.6 | 235.5 | 0.0 | 78.8 | 19.64 | 3,605 | 50.1 |
| 104.0 | | 0.3125 | 31.303 | 30.737 | 3,729.7 | 15.90 | 100.17 | 82.6 | 234.7 | 0.0 | 26.2 | | | |
| 105.0 | | 0.3125 | 31.083 | 30.520 | 3,651.0 | 15.78 | 99.47 | 82.6 | 231.3 | 0.0 | 104.2 | | | |
| 106.0 | | 0.3125 | 30.864 | 30.302 | 3,573.4 | 15.65 | 98.76 | 82.6 | 228.0 | 0.0 | 103.5 | | | |
| 107.0 | | 0.3125 | 30.644 | 30.084 | 3,497.0 | 15.53 | 98.06 | 82.6 | 224.8 | 0.0 | 102.7 | | | |
| 108.0 | | 0.3125 | 30.425 | 29.867 | 3,421.6 | 15.40 | 97.36 | 82.6 | 221.5 | 0.0 | 102.0 | | | |
| 109.0 | | 0.3125 | 30.206 | 29.649 | 3,347.4 | 15.28 | 96.66 | 82.6 | 218.3 | 0.0 | 101.3 | | | |
| 110.0 | | 0.3125 | 29.986 | 29.431 | 3,274.2 | 15.16 | 95.96 | 82.6 | 215.1 | 0.0 | 100.5 | | | |
| 111.0 | | 0.3125 | 29.767 | 29.214 | 3,202.1 | 15.03 | 95.25 | 82.6 | 211.9 | 0.0 | 99.8 | | | |
| 112.0 | | 0.3125 | 29.547 | 28.996 | 3,131.1 | 14.91 | 94.55 | 82.6 | 208.7 | 0.0 | 99.0 | | | |
| 113.0 | | 0.3125 | 29.328 | 28.778 | 3,061.1 | 14.78 | 93.85 | 82.6 | 205.6 | 0.0 | 98.3 | | | |
| 114.0 | | 0.3125 | 29.108 | 28.561 | 2,992.2 | 14.66 | 93.15 | 82.6 | 202.5 | 0.0 | 97.6 | | | |
| 115.0 | | 0.3125 | 28.889 | 28.343 | 2,924.3 | 14.54 | 92.44 | 82.6 | 199.4 | 0.0 | 96.8 | | | |
| 116.0 | | 0.3125 | 28.669 | 28.126 | 2,857.4 | 14.41 | 91.74 | 82.6 | 196.3 | 0.0 | 96.1 | | | |

| | | | | | | | | | | | |
|-------|-----------------|--------|--------|--------|---------|-------|--------|------|-------|-----|-------|
| 117.0 | | 0.3125 | 28.450 | 27.908 | 2,791.6 | 14.29 | 91.04 | 82.6 | 193.3 | 0.0 | 95.3 |
| 118.0 | | 0.3125 | 28.231 | 27.690 | 2,726.8 | 14.17 | 90.34 | 82.6 | 190.2 | 0.0 | 94.6 |
| 119.0 | | 0.3125 | 28.011 | 27.473 | 2,663.0 | 14.04 | 89.64 | 82.6 | 187.2 | 0.0 | 93.9 |
| 120.0 | | 0.3125 | 27.792 | 27.255 | 2,600.2 | 13.92 | 88.93 | 82.6 | 184.3 | 0.0 | 93.1 |
| 121.0 | | 0.3125 | 27.572 | 27.037 | 2,538.4 | 13.79 | 88.23 | 82.6 | 181.3 | 0.0 | 92.4 |
| 122.0 | | 0.3125 | 27.353 | 26.820 | 2,477.6 | 13.67 | 87.53 | 82.6 | 178.4 | 0.0 | 91.6 |
| 123.0 | | 0.3125 | 27.133 | 26.602 | 2,417.7 | 13.55 | 86.83 | 82.6 | 175.5 | 0.0 | 90.9 |
| 124.0 | | 0.3125 | 26.914 | 26.384 | 2,358.9 | 13.42 | 86.12 | 82.6 | 172.6 | 0.0 | 90.2 |
| 125.0 | | 0.3125 | 26.694 | 26.167 | 2,301.0 | 13.30 | 85.42 | 82.6 | 169.8 | 0.0 | 89.4 |
| 126.0 | | 0.3125 | 26.475 | 25.949 | 2,244.0 | 13.18 | 84.72 | 82.6 | 166.9 | 0.0 | 88.7 |
| 127.0 | | 0.3125 | 26.256 | 25.731 | 2,188.1 | 13.05 | 84.02 | 82.6 | 164.1 | 0.0 | 87.9 |
| 128.0 | | 0.3125 | 26.036 | 25.514 | 2,133.0 | 12.93 | 83.32 | 82.6 | 161.4 | 0.0 | 87.2 |
| 129.0 | | 0.3125 | 25.817 | 25.296 | 2,078.9 | 12.80 | 82.61 | 82.6 | 158.6 | 0.0 | 86.4 |
| 130.0 | | 0.3125 | 25.597 | 25.078 | 2,025.7 | 12.68 | 81.91 | 82.6 | 155.9 | 0.0 | 85.7 |
| 131.0 | | 0.3125 | 25.378 | 24.861 | 1,973.4 | 12.56 | 81.21 | 82.6 | 153.2 | 0.0 | 85.0 |
| 132.0 | | 0.3125 | 25.158 | 24.643 | 1,922.0 | 12.43 | 80.51 | 82.6 | 150.5 | 0.0 | 84.2 |
| 132.1 | Bot - Section 4 | 0.3125 | 25.132 | 24.617 | 1,915.9 | 12.42 | 80.42 | 82.6 | 150.2 | 0.0 | 10.0 |
| 133.0 | | 0.3125 | 24.939 | 24.425 | 1,871.5 | 12.31 | 79.80 | 82.6 | 147.8 | 0.0 | 118.4 |
| 134.0 | | 0.3125 | 24.719 | 24.208 | 1,821.9 | 12.18 | 79.10 | 82.6 | 145.2 | 0.0 | 133.4 |
| 135.0 | | 0.3125 | 24.500 | 23.990 | 1,773.2 | 12.06 | 78.40 | 82.6 | 142.6 | 0.0 | 132.2 |
| 135.8 | Top - Section 3 | 0.1875 | 24.684 | 14.578 | 1,105.3 | 21.45 | 131.65 | 76.2 | 88.2 | 0.0 | 114.0 |
| 136.0 | | 0.1875 | 24.656 | 14.561 | 1,101.4 | 21.42 | 131.50 | 76.2 | 88.0 | 0.0 | 6.5 |
| 137.0 | | 0.1875 | 24.436 | 14.430 | 1,072.0 | 21.22 | 130.33 | 76.4 | 86.4 | 0.0 | 49.3 |
| 138.0 | | 0.1875 | 24.217 | 14.300 | 1,043.2 | 21.01 | 129.16 | 76.7 | 84.8 | 0.0 | 48.9 |
| 139.0 | | 0.1875 | 23.997 | 14.169 | 1,014.9 | 20.80 | 127.99 | 76.9 | 83.3 | 0.0 | 48.4 |
| 140.0 | | 0.1875 | 23.778 | 14.039 | 987.1 | 20.60 | 126.81 | 77.2 | 81.8 | 0.0 | 48.0 |
| 141.0 | | 0.1875 | 23.558 | 13.908 | 959.8 | 20.39 | 125.64 | 77.4 | 80.2 | 0.0 | 47.5 |
| 142.0 | | 0.1875 | 23.339 | 13.777 | 933.0 | 20.18 | 124.47 | 77.7 | 78.7 | 0.0 | 47.1 |
| 143.0 | | 0.1875 | 23.119 | 13.647 | 906.7 | 19.98 | 123.30 | 77.9 | 77.2 | 0.0 | 46.7 |
| 144.0 | | 0.1875 | 22.900 | 13.516 | 880.9 | 19.77 | 122.13 | 78.1 | 75.8 | 0.0 | 46.2 |
| 145.0 | | 0.1875 | 22.681 | 13.386 | 855.6 | 19.57 | 120.96 | 78.4 | 74.3 | 0.0 | 45.8 |
| 146.0 | | 0.1875 | 22.461 | 13.255 | 830.8 | 19.36 | 119.79 | 78.6 | 72.9 | 0.0 | 45.3 |
| 147.0 | | 0.1875 | 22.242 | 13.125 | 806.5 | 19.15 | 118.62 | 78.9 | 71.4 | 0.0 | 44.9 |
| 148.0 | | 0.1875 | 22.022 | 12.994 | 782.7 | 18.95 | 117.45 | 79.1 | 70.0 | 0.0 | 44.4 |
| 149.0 | | 0.1875 | 21.803 | 12.863 | 759.3 | 18.74 | 116.28 | 79.4 | 68.6 | 0.0 | 44.0 |
| 150.0 | | 0.1875 | 21.583 | 12.733 | 736.4 | 18.53 | 115.11 | 79.6 | 67.2 | 0.0 | 43.5 |
| 151.0 | | 0.1875 | 21.364 | 12.602 | 714.0 | 18.33 | 113.94 | 79.8 | 65.8 | 0.0 | 43.1 |
| 152.0 | | 0.1875 | 21.144 | 12.472 | 692.0 | 18.12 | 112.77 | 80.1 | 64.5 | 0.0 | 42.7 |
| 153.0 | | 0.1875 | 20.925 | 12.341 | 670.5 | 17.91 | 111.60 | 80.3 | 63.1 | 0.0 | 42.2 |
| 154.0 | | 0.1875 | 20.706 | 12.210 | 649.5 | 17.71 | 110.43 | 80.6 | 61.8 | 0.0 | 41.8 |
| 155.0 | | 0.1875 | 20.486 | 12.080 | 628.8 | 17.50 | 109.26 | 80.8 | 60.5 | 0.0 | 41.3 |
| 156.0 | | 0.1875 | 20.267 | 11.949 | 608.7 | 17.30 | 108.09 | 81.1 | 59.2 | 0.0 | 40.9 |
| 157.0 | | 0.1875 | 20.047 | 11.819 | 588.9 | 17.09 | 106.92 | 81.3 | 57.9 | 0.0 | 40.4 |
| 158.0 | | 0.1875 | 19.828 | 11.688 | 569.6 | 16.88 | 105.75 | 81.5 | 56.6 | 0.0 | 40.0 |
| 159.0 | | 0.1875 | 19.608 | 11.557 | 550.7 | 16.68 | 104.58 | 81.8 | 55.3 | 0.0 | 39.5 |
| 160.0 | | 0.1875 | 19.389 | 11.427 | 532.3 | 16.47 | 103.41 | 82.0 | 54.1 | 0.0 | 39.1 |
| 161.0 | | 0.1875 | 19.169 | 11.296 | 514.2 | 16.26 | 102.24 | 82.3 | 52.8 | 0.0 | 38.7 |
| 162.0 | | 0.1875 | 18.950 | 11.166 | 496.6 | 16.06 | 101.07 | 82.5 | 51.6 | 0.0 | 38.2 |
| 163.0 | | 0.1875 | 18.731 | 11.035 | 479.4 | 15.85 | 99.90 | 82.6 | 50.4 | 0.0 | 37.8 |
| 164.0 | | 0.1875 | 18.511 | 10.904 | 462.6 | 15.64 | 98.73 | 82.6 | 49.2 | 0.0 | 37.3 |
| 165.0 | | 0.1875 | 18.292 | 10.774 | 446.2 | 15.44 | 97.56 | 82.6 | 48.0 | 0.0 | 36.9 |
| 166.0 | | 0.1875 | 18.072 | 10.643 | 430.1 | 15.23 | 96.39 | 82.6 | 46.9 | 0.0 | 36.4 |
| 167.0 | | 0.1875 | 17.853 | 10.513 | 414.5 | 15.03 | 95.21 | 82.6 | 45.7 | 0.0 | 36.0 |
| 168.0 | | 0.1875 | 17.633 | 10.382 | 399.2 | 14.82 | 94.04 | 82.6 | 44.6 | 0.0 | 35.6 |
| 169.0 | | 0.1875 | 17.414 | 10.251 | 384.4 | 14.61 | 92.87 | 82.6 | 43.5 | 0.0 | 35.1 |
| 170.0 | | 0.1875 | 17.194 | 10.121 | 369.8 | 14.41 | 91.70 | 82.6 | 42.4 | 0.0 | 34.7 |
| 171.0 | | 0.1875 | 16.975 | 9.990 | 355.7 | 14.20 | 90.53 | 82.6 | 41.3 | 0.0 | 34.2 |
| 172.0 | | 0.1875 | 16.756 | 9.860 | 341.9 | 13.99 | 89.36 | 82.6 | 40.2 | 0.0 | 33.8 |
| 173.0 | | 0.1875 | 16.536 | 9.729 | 328.5 | 13.79 | 88.19 | 82.6 | 39.1 | 0.0 | 33.3 |
| 174.0 | | 0.1875 | 16.317 | 9.599 | 315.5 | 13.58 | 87.02 | 82.6 | 38.1 | 0.0 | 32.9 |
| 175.0 | | 0.1875 | 16.097 | 9.468 | 302.8 | 13.37 | 85.85 | 82.6 | 37.0 | 0.0 | 32.4 |
| 176.0 | | 0.1875 | 15.878 | 9.337 | 290.4 | 13.17 | 84.68 | 82.6 | 36.0 | 0.0 | 32.0 |
| 177.0 | | 0.1875 | 15.658 | 9.207 | 278.4 | 12.96 | 83.51 | 82.6 | 35.0 | 0.0 | 31.6 |
| 178.0 | | 0.1875 | 15.439 | 9.076 | 266.7 | 12.76 | 82.34 | 82.6 | 34.0 | 0.0 | 31.1 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:31:28 PM

Customer: AT&T MOBILITY

| | | | | | | | | | | |
|-------|--------|--------|-------|-------|-------|-------|------|------|-----|------|
| 179.0 | 0.1875 | 15.219 | 8.946 | 255.4 | 12.55 | 81.17 | 82.6 | 33.1 | 0.0 | 30.7 |
| 180.0 | 0.1875 | 15.000 | 8.815 | 244.4 | 12.34 | 80.00 | 82.6 | 32.1 | 0.0 | 30.2 |

25,271.1

6,930.5

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:31:28 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W

90 mph with No Ice

34 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

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 | | 46.4 | 0.0 | | | | | 0.0 | 0.0 | 46.4 | 0.0 | 0.0 | 0.0 |
| 1.00 | | 92.7 | 296.0 | | | | | 0.0 | 204.8 | 92.7 | 500.8 | 0.0 | 0.0 |
| 2.00 | | 92.5 | 294.7 | | | | | 0.0 | 204.8 | 92.5 | 499.5 | 0.0 | 0.0 |
| 3.00 | | 92.3 | 293.5 | | | | | 0.0 | 204.8 | 92.3 | 498.3 | 0.0 | 0.0 |
| 4.00 | | 92.0 | 292.3 | | | | | 0.0 | 204.8 | 92.0 | 497.0 | 0.0 | 0.0 |
| 5.00 | | 91.8 | 291.0 | | | | | 0.0 | 204.8 | 91.8 | 495.8 | 0.0 | 0.0 |
| 6.00 | | 91.6 | 289.8 | | | | | 0.0 | 204.8 | 91.6 | 494.5 | 0.0 | 0.0 |
| 7.00 | | 91.3 | 288.5 | | | | | 0.0 | 204.8 | 91.3 | 493.3 | 0.0 | 0.0 |
| 8.00 | | 91.1 | 287.3 | | | | | 0.0 | 204.8 | 91.1 | 492.0 | 0.0 | 0.0 |
| 9.00 | | 90.8 | 286.0 | | | | | 0.0 | 204.8 | 90.8 | 490.8 | 0.0 | 0.0 |
| 10.00 | | 90.6 | 284.8 | | | | | 0.0 | 204.8 | 90.6 | 489.6 | 0.0 | 0.0 |
| 11.00 | | 90.4 | 283.5 | | | | | 0.0 | 204.8 | 90.4 | 488.3 | 0.0 | 0.0 |
| 12.00 | | 90.1 | 282.3 | | | | | 0.0 | 204.8 | 90.1 | 487.1 | 0.0 | 0.0 |
| 13.00 | | 89.9 | 281.1 | | | | | 0.0 | 204.8 | 89.9 | 485.8 | 0.0 | 0.0 |
| 14.00 | | 89.7 | 279.8 | | | | | 0.0 | 204.8 | 89.7 | 484.6 | 0.0 | 0.0 |
| 15.00 | | 89.4 | 278.6 | | | | | 0.0 | 204.8 | 89.4 | 483.3 | 0.0 | 0.0 |
| 16.00 | | 89.2 | 277.3 | | | | | 0.0 | 204.8 | 89.2 | 482.1 | 0.0 | 0.0 |
| 17.00 | | 89.0 | 276.1 | | | | | 0.0 | 204.8 | 89.0 | 480.8 | 0.0 | 0.0 |
| 18.00 | | 88.7 | 274.8 | | | | | 0.0 | 204.8 | 88.7 | 479.6 | 0.0 | 0.0 |
| 19.00 | | 88.5 | 273.6 | | | | | 0.0 | 204.8 | 88.5 | 478.4 | 0.0 | 0.0 |
| 20.00 | | 88.3 | 272.3 | | | | | 0.0 | 204.8 | 88.3 | 477.1 | 0.0 | 0.0 |
| 21.00 | | 88.0 | 271.1 | | | | | 0.0 | 204.8 | 88.0 | 475.9 | 0.0 | 0.0 |
| 22.00 | | 87.8 | 269.9 | | | | | 0.0 | 204.8 | 87.8 | 474.6 | 0.0 | 0.0 |
| 23.00 | | 87.5 | 268.6 | | | | | 0.0 | 204.8 | 87.5 | 473.4 | 0.0 | 0.0 |
| 24.00 | | 87.3 | 267.4 | | | | | 0.0 | 204.8 | 87.3 | 472.1 | 0.0 | 0.0 |
| 25.00 | | 87.1 | 266.1 | | | | | 0.0 | 204.8 | 87.1 | 470.9 | 0.0 | 0.0 |
| 26.00 | | 86.8 | 264.9 | | | | | 0.0 | 204.8 | 86.8 | 469.6 | 0.0 | 0.0 |
| 27.00 | | 86.6 | 263.6 | | | | | 0.0 | 204.8 | 86.6 | 468.4 | 0.0 | 0.0 |
| 28.00 | | 86.4 | 262.4 | | | | | 0.0 | 204.8 | 86.4 | 467.2 | 0.0 | 0.0 |
| 29.00 | | 86.1 | 261.2 | | | | | 0.0 | 204.8 | 86.1 | 465.9 | 0.0 | 0.0 |
| 30.00 | Appertunance(s) | 86.1 | 259.9 | 27.9 | 0.0 | 0.0 | 12.0 | 0.0 | 204.8 | 114.1 | 476.7 | 0.0 | 0.0 |
| 31.00 | | 86.5 | 258.7 | | | | | 0.0 | 204.4 | 86.5 | 463.0 | 0.0 | 0.0 |
| 32.00 | | 87.1 | 257.4 | | | | | 0.0 | 204.4 | 87.1 | 461.8 | 0.0 | 0.0 |
| 33.00 | | 87.6 | 256.2 | | | | | 0.0 | 204.4 | 87.6 | 460.5 | 0.0 | 0.0 |
| 34.00 | | 88.1 | 254.9 | | | | | 0.0 | 204.4 | 88.1 | 459.3 | 0.0 | 0.0 |
| 35.00 | | 88.6 | 253.7 | | | | | 0.0 | 204.4 | 88.6 | 458.1 | 0.0 | 0.0 |
| 36.00 | | 89.1 | 252.4 | | | | | 0.0 | 204.4 | 89.1 | 456.8 | 0.0 | 0.0 |
| 37.00 | | 89.5 | 251.2 | | | | | 0.0 | 204.4 | 89.5 | 455.6 | 0.0 | 0.0 |
| 38.00 | | 89.9 | 250.0 | | | | | 0.0 | 204.4 | 89.9 | 454.3 | 0.0 | 0.0 |
| 39.00 | | 90.4 | 248.7 | | | | | 0.0 | 204.4 | 90.4 | 453.1 | 0.0 | 0.0 |
| 40.00 | | 90.8 | 247.5 | | | | | 0.0 | 204.4 | 90.8 | 451.8 | 0.0 | 0.0 |
| 41.00 | | 91.1 | 246.2 | | | | | 0.0 | 204.4 | 91.1 | 450.6 | 0.0 | 0.0 |
| 42.00 | | 89.5 | 245.0 | | | | | 0.0 | 204.4 | 89.5 | 449.3 | 0.0 | 0.0 |
| 42.96 | Bot - Section 2 | 45.9 | 233.2 | | | | | 0.0 | 195.5 | 45.9 | 428.7 | 0.0 | 0.0 |
| 43.00 | | 48.9 | 19.8 | | | | | 0.0 | 8.9 | 48.9 | 28.7 | 0.0 | 0.0 |
| 44.00 | | 93.8 | 454.3 | | | | | 0.0 | 204.4 | 93.8 | 658.6 | 0.0 | 0.0 |
| 45.00 | | 94.2 | 452.0 | | | | | 0.0 | 204.4 | 94.2 | 656.3 | 0.0 | 0.0 |
| 46.00 | | 94.5 | 449.7 | | | | | 0.0 | 204.4 | 94.5 | 654.0 | 0.0 | 0.0 |

| | | | | | | | | |
|-------------------------------|--------------------|--|--|--|-------------------------------|--|--|--|
| Load Case: 1.2D + 1.6W | 90 mph with No Ice | | | | 34 Iterations | | | |
| Gust Response Factor : 1.10 | | | | | Wind Importance Factor : 1.15 | | | |
| Dead Load Factor : 1.20 | | | | | | | | |
| Wind Load Factor : 1.60 | | | | | | | | |

| | | | | | | | | | | | | | |
|--------|-----------------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-----|-----|
| 47.00 | 94.8 | 447.4 | | | | | 0.0 | 204.4 | 94.8 | 651.7 | 0.0 | 0.0 | |
| 48.00 | 95.1 | 445.0 | | | | | 0.0 | 204.4 | 95.1 | 649.4 | 0.0 | 0.0 | |
| 49.00 | 49.5 | 442.7 | | | | | 0.0 | 204.4 | 49.5 | 647.1 | 0.0 | 0.0 | |
| 49.04 | Top - Section 1 | 47.4 | 17.6 | | | | 0.0 | 8.2 | 47.4 | 25.8 | 0.0 | 0.0 | |
| 50.00 | | 93.1 | 197.2 | | | | 0.0 | 196.2 | 93.1 | 393.4 | 0.0 | 0.0 | |
| 51.00 | | 95.2 | 204.3 | | | | 0.0 | 204.4 | 95.2 | 408.7 | 0.0 | 0.0 | |
| 52.00 | | 95.5 | 203.3 | | | | 0.0 | 204.4 | 95.5 | 407.6 | 0.0 | 0.0 | |
| 53.00 | | 95.7 | 202.2 | | | | 0.0 | 204.4 | 95.7 | 406.6 | 0.0 | 0.0 | |
| 54.00 | | 95.9 | 201.1 | | | | 0.0 | 204.4 | 95.9 | 405.5 | 0.0 | 0.0 | |
| 55.00 | | 96.2 | 200.1 | | | | 0.0 | 204.4 | 96.2 | 404.4 | 0.0 | 0.0 | |
| 56.00 | | 96.4 | 199.0 | | | | 0.0 | 204.4 | 96.4 | 403.4 | 0.0 | 0.0 | |
| 57.00 | | 96.6 | 197.9 | | | | 0.0 | 204.4 | 96.6 | 402.3 | 0.0 | 0.0 | |
| 58.00 | | 96.8 | 196.9 | | | | 0.0 | 204.4 | 96.8 | 401.2 | 0.0 | 0.0 | |
| 59.00 | | 97.0 | 195.8 | | | | 0.0 | 204.4 | 97.0 | 400.2 | 0.0 | 0.0 | |
| 60.00 | | 97.1 | 194.7 | | | | 0.0 | 204.4 | 97.1 | 399.1 | 0.0 | 0.0 | |
| 61.00 | | 97.3 | 193.7 | | | | 0.0 | 204.4 | 97.3 | 398.0 | 0.0 | 0.0 | |
| 62.00 | | 97.5 | 192.6 | | | | 0.0 | 204.4 | 97.5 | 397.0 | 0.0 | 0.0 | |
| 63.00 | | 97.6 | 191.5 | | | | 0.0 | 204.4 | 97.6 | 395.9 | 0.0 | 0.0 | |
| 64.00 | | 118.3 | 190.5 | | | | 0.0 | 204.4 | 118.3 | 394.8 | 0.0 | 0.0 | |
| 65.00 | | 138.8 | 189.4 | | | | 26.5 | 204.4 | 165.3 | 393.8 | 0.0 | 0.0 | |
| 66.00 | | 138.6 | 188.3 | | | | 26.5 | 204.4 | 165.2 | 392.7 | 0.0 | 0.0 | |
| 67.00 | | 138.4 | 187.3 | | | | 26.6 | 204.4 | 165.1 | 391.6 | 0.0 | 0.0 | |
| 68.00 | | 138.2 | 186.2 | | | | 26.7 | 204.4 | 164.9 | 390.6 | 0.0 | 0.0 | |
| 69.00 | | 138.0 | 185.1 | | | | 26.8 | 204.4 | 164.8 | 389.5 | 0.0 | 0.0 | |
| 70.00 | | 137.8 | 184.1 | | | | 26.9 | 204.4 | 164.7 | 388.4 | 0.0 | 0.0 | |
| 71.00 | | 137.6 | 183.0 | | | | 26.9 | 204.4 | 164.5 | 387.4 | 0.0 | 0.0 | |
| 72.00 | | 137.3 | 181.9 | | | | 27.0 | 204.4 | 164.3 | 386.3 | 0.0 | 0.0 | |
| 73.00 | | 137.1 | 180.9 | | | | 27.1 | 204.4 | 164.2 | 385.2 | 0.0 | 0.0 | |
| 74.00 | | 136.8 | 179.8 | | | | 27.2 | 204.4 | 164.0 | 384.2 | 0.0 | 0.0 | |
| 75.00 | | 136.5 | 178.7 | | | | 27.3 | 204.4 | 163.8 | 383.1 | 0.0 | 0.0 | |
| 76.00 | | 136.2 | 177.7 | | | | 27.3 | 204.4 | 163.5 | 382.0 | 0.0 | 0.0 | |
| 77.00 | | 135.9 | 176.6 | | | | 27.4 | 204.4 | 163.3 | 381.0 | 0.0 | 0.0 | |
| 78.00 | | 135.6 | 175.5 | | | | 27.5 | 204.4 | 163.1 | 379.9 | 0.0 | 0.0 | |
| 79.00 | Appertunance(s) | 135.3 | 174.5 | 3.3 | 0.0 | 0.0 | 0.7 | 27.6 | 204.4 | 166.1 | 379.6 | 0.0 | 0.0 |
| 80.00 | | 134.9 | 173.4 | | | | | 27.6 | 204.2 | 162.6 | 377.6 | 0.0 | 0.0 |
| 81.00 | | 134.6 | 172.3 | | | | | 27.7 | 204.2 | 162.3 | 376.5 | 0.0 | 0.0 |
| 82.00 | | 134.2 | 171.3 | | | | | 27.8 | 204.2 | 162.0 | 375.5 | 0.0 | 0.0 |
| 83.00 | | 133.9 | 170.2 | | | | | 27.8 | 204.2 | 161.7 | 374.4 | 0.0 | 0.0 |
| 84.00 | | 133.5 | 169.1 | | | | | 27.9 | 204.2 | 161.4 | 373.3 | 0.0 | 0.0 |
| 85.00 | | 133.1 | 168.1 | | | | | 28.0 | 204.2 | 161.1 | 372.3 | 0.0 | 0.0 |
| 86.00 | | 132.7 | 167.0 | | | | | 28.0 | 204.2 | 160.7 | 371.2 | 0.0 | 0.0 |
| 87.00 | | 101.9 | 165.9 | | | | | 28.1 | 204.2 | 130.0 | 370.1 | 0.0 | 0.0 |
| 87.54 | Bot - Section 3 | 66.6 | 89.1 | | | | | 15.2 | 110.2 | 81.8 | 199.4 | 0.0 | 0.0 |
| 88.00 | | 98.0 | 140.1 | | | | | 13.0 | 93.9 | 110.9 | 234.1 | 0.0 | 0.0 |
| 89.00 | | 133.9 | 303.1 | | | | | 28.2 | 204.2 | 162.1 | 507.3 | 0.0 | 0.0 |
| 90.00 | | 133.5 | 301.1 | | | | | 28.3 | 204.2 | 161.8 | 505.3 | 0.0 | 0.0 |
| 91.00 | | 133.0 | 299.2 | | | | | 28.4 | 204.2 | 161.4 | 503.4 | 0.0 | 0.0 |
| 92.00 | | 96.6 | 297.2 | | | | | 28.4 | 204.2 | 125.1 | 501.4 | 0.0 | 0.0 |
| 92.46 | Top - Section 2 | 66.2 | 135.1 | | | | | 13.0 | 93.2 | 79.2 | 228.3 | 0.0 | 0.0 |
| 93.00 | | 101.9 | 73.7 | | | | | 15.5 | 111.0 | 117.4 | 184.6 | 0.0 | 0.0 |
| 94.00 | | 131.7 | 134.8 | | | | | 28.6 | 204.2 | 160.2 | 339.0 | 0.0 | 0.0 |
| 95.00 | | 131.2 | 134.0 | | | | | 28.6 | 204.2 | 159.8 | 338.1 | 0.0 | 0.0 |
| 96.00 | Appertunance(s) | 130.7 | 133.1 | 565.1 | 0.0 | 0.0 | 583.9 | 28.7 | 204.2 | 724.6 | 921.2 | 0.0 | 0.0 |
| 97.00 | | 130.2 | 132.2 | | | | | 28.8 | 203.2 | 159.0 | 335.4 | 0.0 | 0.0 |
| 98.00 | | 129.8 | 131.3 | | | | | 28.8 | 203.2 | 158.6 | 334.5 | 0.0 | 0.0 |
| 99.00 | | 129.3 | 130.4 | | | | | 28.9 | 203.2 | 158.1 | 333.6 | 0.0 | 0.0 |
| 100.00 | | 128.8 | 129.5 | | | | | 28.9 | 203.2 | 157.7 | 332.7 | 0.0 | 0.0 |

| | | | | | | | | | | |
|-------------------------------|--|--------------------|--|--|--|--|--|--|-------------------------------|--|
| Load Case: 1.2D + 1.6W | | 90 mph with No Ice | | | | | | | 34 Iterations | |
| Gust Response Factor : 1.10 | | | | | | | | | Wind Importance Factor : 1.15 | |
| Dead Load Factor : 1.20 | | | | | | | | | | |
| Wind Load Factor : 1.60 | | | | | | | | | | |

| | | | | | | | | | | | | | |
|--------|-----------------|-------|-------|---------|-----|---------|---------|------|-------|---------|---------|-----|-----|
| 101.00 | | 128.2 | 128.6 | | | | | 29.0 | 203.2 | 157.2 | 331.8 | 0.0 | 0.0 |
| 102.00 | | 127.7 | 127.7 | | | | | 29.1 | 203.2 | 156.8 | 330.9 | 0.0 | 0.0 |
| 103.00 | | 111.3 | 126.8 | | | | | 29.1 | 203.2 | 140.5 | 330.1 | 0.0 | 0.0 |
| 103.75 | Reinf. Top | 63.5 | 94.5 | | | | | 21.9 | 152.4 | 85.3 | 247.0 | 0.0 | 0.0 |
| 104.00 | | 79.0 | 31.4 | | | | | 7.3 | 30.8 | 86.3 | 62.2 | 0.0 | 0.0 |
| 105.00 | Appertunance(s) | 126.1 | 125.1 | 420.6 | 0.0 | 0.0 | 95.0 | 29.2 | 123.1 | 575.9 | 343.2 | 0.0 | 0.0 |
| 106.00 | | 125.6 | 124.2 | | | | | 29.3 | 117.2 | 154.9 | 241.3 | 0.0 | 0.0 |
| 107.00 | | 125.0 | 123.3 | | | | | 29.4 | 117.2 | 154.4 | 240.4 | 0.0 | 0.0 |
| 108.00 | | 124.4 | 122.4 | | | | | 29.4 | 117.2 | 153.8 | 239.6 | 0.0 | 0.0 |
| 109.00 | | 123.9 | 121.5 | | | | | 29.5 | 117.2 | 153.3 | 238.7 | 0.0 | 0.0 |
| 110.00 | | 123.3 | 120.6 | | | | | 29.5 | 117.2 | 152.8 | 237.8 | 0.0 | 0.0 |
| 111.00 | | 122.7 | 119.7 | | | | | 29.6 | 117.2 | 152.3 | 236.9 | 0.0 | 0.0 |
| 112.00 | Appertunance(s) | 103.0 | 118.8 | 1,926.9 | 0.0 | 0.0 | 2,001.6 | 29.6 | 117.2 | 2,059.5 | 2,237.6 | 0.0 | 0.0 |
| 113.00 | | 102.4 | 118.0 | | | | | 0.0 | 82.3 | 102.4 | 200.2 | 0.0 | 0.0 |
| 114.00 | | 120.9 | 117.1 | | | | | 32.1 | 56.5 | 153.0 | 173.5 | 0.0 | 0.0 |
| 115.00 | | 120.3 | 116.2 | | | | | 32.2 | 56.5 | 152.4 | 172.7 | 0.0 | 0.0 |
| 116.00 | | 119.7 | 115.3 | | | | | 32.2 | 56.5 | 151.9 | 171.8 | 0.0 | 0.0 |
| 117.00 | | 119.0 | 114.4 | | | | | 32.2 | 56.5 | 151.3 | 170.9 | 0.0 | 0.0 |
| 118.00 | | 118.4 | 113.5 | | | | | 32.3 | 56.5 | 150.7 | 170.0 | 0.0 | 0.0 |
| 119.00 | | 117.8 | 112.6 | | | | | 32.3 | 56.5 | 150.1 | 169.1 | 0.0 | 0.0 |
| 120.00 | | 117.1 | 111.7 | | | | | 32.4 | 56.5 | 149.5 | 168.2 | 0.0 | 0.0 |
| 121.00 | | 116.5 | 110.8 | | | | | 32.4 | 56.5 | 148.9 | 167.3 | 0.0 | 0.0 |
| 122.00 | | 115.8 | 110.0 | | | | | 32.4 | 56.5 | 148.3 | 166.4 | 0.0 | 0.0 |
| 123.00 | | 115.2 | 109.1 | | | | | 32.5 | 56.5 | 147.6 | 165.5 | 0.0 | 0.0 |
| 124.00 | | 114.5 | 108.2 | | | | | 32.5 | 56.5 | 147.0 | 164.7 | 0.0 | 0.0 |
| 125.00 | Appertunance(s) | 92.1 | 107.3 | 1,948.6 | 0.0 | 0.0 | 2,550.7 | 32.5 | 56.5 | 2,073.3 | 2,714.5 | 0.0 | 0.0 |
| 126.00 | | 70.0 | 106.4 | | | | | 0.0 | 49.0 | 70.0 | 155.4 | 0.0 | 0.0 |
| 127.00 | | 69.8 | 105.5 | | | | | 0.0 | 49.0 | 69.8 | 154.5 | 0.0 | 0.0 |
| 128.00 | | 69.6 | 104.6 | | | | | 0.0 | 49.0 | 69.6 | 153.6 | 0.0 | 0.0 |
| 129.00 | | 69.4 | 103.7 | | | | | 0.0 | 49.0 | 69.4 | 152.8 | 0.0 | 0.0 |
| 130.00 | | 69.2 | 102.8 | | | | | 0.0 | 49.0 | 69.2 | 151.9 | 0.0 | 0.0 |
| 131.00 | | 69.0 | 102.0 | | | | | 0.0 | 49.0 | 69.0 | 151.0 | 0.0 | 0.0 |
| 132.00 | | 38.6 | 101.1 | | | | | 0.0 | 49.0 | 38.6 | 150.1 | 0.0 | 0.0 |
| 132.12 | Bot - Section 4 | 34.8 | 12.0 | | | | | 0.0 | 5.9 | 34.8 | 17.9 | 0.0 | 0.0 |
| 133.00 | | 65.4 | 142.1 | | | | | 0.0 | 43.1 | 65.4 | 185.2 | 0.0 | 0.0 |
| 134.00 | | 69.4 | 160.1 | | | | | 0.0 | 49.0 | 69.4 | 209.1 | 0.0 | 0.0 |
| 135.00 | Appertunance(s) | 64.7 | 158.7 | 2,769.0 | 0.0 | 0.0 | 3,428.5 | 0.0 | 49.0 | 2,833.7 | 3,636.2 | 0.0 | 0.0 |
| 135.87 | Top - Section 3 | 34.5 | 136.8 | | | | | 0.0 | 38.8 | 34.5 | 175.6 | 0.0 | 0.0 |
| 136.00 | | 38.7 | 7.7 | | | | | 0.0 | 5.8 | 38.7 | 13.6 | 0.0 | 0.0 |
| 137.00 | | 68.3 | 59.2 | | | | | 0.0 | 44.6 | 68.3 | 103.8 | 0.0 | 0.0 |
| 138.00 | | 68.1 | 58.7 | | | | | 0.0 | 44.6 | 68.1 | 103.2 | 0.0 | 0.0 |
| 139.00 | | 67.9 | 58.1 | | | | | 0.0 | 44.6 | 67.9 | 102.7 | 0.0 | 0.0 |
| 140.00 | Appertunance(s) | 67.6 | 57.6 | 1,191.8 | 0.0 | 6,104.3 | 800.4 | 0.0 | 44.6 | 1,259.4 | 902.6 | 0.0 | 0.0 |
| 141.00 | | 67.4 | 57.1 | | | | | 0.0 | 37.9 | 67.4 | 95.0 | 0.0 | 0.0 |
| 142.00 | | 67.2 | 56.5 | | | | | 0.0 | 37.9 | 67.2 | 94.4 | 0.0 | 0.0 |
| 143.00 | | 66.9 | 56.0 | | | | | 0.0 | 37.9 | 66.9 | 93.9 | 0.0 | 0.0 |
| 144.00 | | 66.7 | 55.5 | | | | | 0.0 | 37.9 | 66.7 | 93.4 | 0.0 | 0.0 |
| 145.00 | | 66.5 | 54.9 | | | | | 0.0 | 37.9 | 66.5 | 92.8 | 0.0 | 0.0 |
| 146.00 | | 66.2 | 54.4 | | | | | 0.0 | 37.9 | 66.2 | 92.3 | 0.0 | 0.0 |
| 147.00 | | 66.0 | 53.9 | | | | | 0.0 | 37.9 | 66.0 | 91.8 | 0.0 | 0.0 |
| 148.00 | | 65.7 | 53.3 | | | | | 0.0 | 37.9 | 65.7 | 91.2 | 0.0 | 0.0 |
| 149.00 | | 65.5 | 52.8 | | | | | 0.0 | 37.9 | 65.5 | 90.7 | 0.0 | 0.0 |
| 150.00 | Appertunance(s) | 65.2 | 52.3 | 202.6 | 0.0 | 0.0 | 190.0 | 0.0 | 37.9 | 267.9 | 280.1 | 0.0 | 0.0 |
| 151.00 | | 65.0 | 51.7 | | | | | 0.0 | 36.9 | 65.0 | 88.6 | 0.0 | 0.0 |
| 152.00 | | 64.7 | 51.2 | | | | | 0.0 | 36.9 | 64.7 | 88.1 | 0.0 | 0.0 |
| 153.00 | | 64.5 | 50.7 | | | | | 0.0 | 36.9 | 64.5 | 87.6 | 0.0 | 0.0 |
| 154.00 | | 64.2 | 50.1 | | | | | 0.0 | 36.9 | 64.2 | 87.0 | 0.0 | 0.0 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:31:46 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W

90 mph with No Ice

34 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

Dead Load Factor : 1.20

Wind Load Factor : 1.60

| | | | | | | | | | | | | | |
|--------|-----------------|------|------|---------|-----|----------|---------|------|---------|----------|----------|------|------|
| 155.00 | | 64.0 | 49.6 | | | | 0.0 | 36.9 | 64.0 | 86.5 | 0.0 | 0.0 | |
| 156.00 | | 63.7 | 49.1 | | | | 0.0 | 36.9 | 63.7 | 86.0 | 0.0 | 0.0 | |
| 157.00 | | 63.4 | 48.5 | | | | 0.0 | 36.9 | 63.4 | 85.4 | 0.0 | 0.0 | |
| 158.00 | | 63.2 | 48.0 | | | | 0.0 | 36.9 | 63.2 | 84.9 | 0.0 | 0.0 | |
| 159.00 | | 62.9 | 47.5 | | | | 0.0 | 36.9 | 62.9 | 84.4 | 0.0 | 0.0 | |
| 160.00 | | 75.5 | 46.9 | | | | 0.0 | 36.9 | 75.5 | 83.8 | 0.0 | 0.0 | |
| 161.00 | | 87.9 | 46.4 | | | | 16.9 | 36.9 | 104.7 | 83.3 | 0.0 | 0.0 | |
| 162.00 | | 87.0 | 45.9 | | | | 16.9 | 36.9 | 103.9 | 82.8 | 0.0 | 0.0 | |
| 163.00 | | 86.2 | 45.3 | | | | 16.9 | 36.9 | 103.1 | 82.2 | 0.0 | 0.0 | |
| 164.00 | | 85.3 | 44.8 | | | | 16.9 | 36.9 | 102.2 | 81.7 | 0.0 | 0.0 | |
| 165.00 | | 84.4 | 44.3 | | | | 16.9 | 36.9 | 101.4 | 81.2 | 0.0 | 0.0 | |
| 166.00 | | 83.6 | 43.7 | | | | 16.9 | 36.9 | 100.5 | 80.6 | 0.0 | 0.0 | |
| 167.00 | Appertunance(s) | 63.8 | 43.2 | 1,626.6 | 0.0 | 0.0 | 1,531.8 | 17.0 | 36.9 | 1,707.4 | 1,611.9 | 0.0 | 0.0 |
| 168.00 | | 44.3 | 42.7 | | | | | 0.0 | 23.9 | 44.3 | 66.6 | 0.0 | 0.0 |
| 169.00 | | 43.8 | 42.1 | | | | | 0.0 | 23.9 | 43.8 | 66.0 | 0.0 | 0.0 |
| 170.00 | | 43.4 | 41.6 | | | | | 0.0 | 23.9 | 43.4 | 65.5 | 0.0 | 0.0 |
| 171.00 | | 42.9 | 41.1 | | | | | 0.0 | 23.9 | 42.9 | 65.0 | 0.0 | 0.0 |
| 172.00 | | 42.4 | 40.5 | | | | | 0.0 | 23.9 | 42.4 | 64.4 | 0.0 | 0.0 |
| 173.00 | | 41.9 | 40.0 | | | | | 0.0 | 23.9 | 41.9 | 63.9 | 0.0 | 0.0 |
| 174.00 | | 41.4 | 39.5 | | | | | 0.0 | 23.9 | 41.4 | 63.4 | 0.0 | 0.0 |
| 175.00 | | 40.9 | 38.9 | | | | | 0.0 | 23.9 | 40.9 | 62.8 | 0.0 | 0.0 |
| 176.00 | | 40.4 | 38.4 | | | | | 0.0 | 23.9 | 40.4 | 62.3 | 0.0 | 0.0 |
| 177.00 | | 39.9 | 37.9 | | | | | 0.0 | 23.9 | 39.9 | 61.8 | 0.0 | 0.0 |
| 178.00 | | 39.5 | 37.3 | | | | | 0.0 | 23.9 | 39.5 | 61.2 | 0.0 | 0.0 |
| 179.00 | | 39.0 | 36.8 | | | | | 0.0 | 23.9 | 39.0 | 60.7 | 0.0 | 0.0 |
| 180.00 | Appertunance(s) | 19.4 | 36.3 | 3,727.0 | 0.0 | 15,021.1 | 3,025.6 | 0.0 | 23.9 | 3,746.4 | 3,085.7 | 0.0 | 0.0 |
| | | | | | | | | | Totals: | 33,450.0 | 69,512.8 | 0.00 | 0.00 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:31:46 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W

90 mph with No Ice

34 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

Dead Load Factor : 1.20

Wind Load Factor : 1.60

Calculated Forces

| Seg | Pu | Vu | Tu | Mu | Mu | Resultant | phi | phi | phi | phi | Total | Rotation | Ratio |
|-------|--------|--------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----------|---------|----------|-------|
| Elev | FY (-) | FX (-) | MY | MZ | MX | Moment | Pn | Vn | Tn | Mn | Deflect | (deg) | |
| (ft) | (kips) | (kips) | (ft-kips) | (ft-kips) | (ft-kips) | (ft-kips) | (kips) | (kips) | (ft-kips) | (ft-kips) | (in) | | |
| 0.00 | -69.50 | -33.42 | 0.00 | -3,922.10 | 0.00 | 3,922.10 | 5,129.98 | 2,564.99 | 11,021.5 | 5,518.96 | 0.00 | 0.00 | 0.536 |
| 1.00 | -68.98 | -33.37 | 0.00 | -3,888.68 | 0.00 | 3,888.68 | 5,115.23 | 2,557.61 | 10,943.3 | 5,479.82 | 0.00 | -0.03 | 0.535 |
| 2.00 | -68.46 | -33.31 | 0.00 | -3,855.31 | 0.00 | 3,855.31 | 5,100.42 | 2,550.21 | 10,865.3 | 5,440.75 | 0.01 | -0.07 | 0.533 |
| 3.00 | -67.95 | -33.26 | 0.00 | -3,822.00 | 0.00 | 3,822.00 | 5,085.56 | 2,542.78 | 10,787.4 | 5,401.75 | 0.03 | -0.10 | 0.532 |
| 4.00 | -67.43 | -33.21 | 0.00 | -3,788.74 | 0.00 | 3,788.74 | 5,070.64 | 2,535.32 | 10,709.7 | 5,362.83 | 0.06 | -0.13 | 0.530 |
| 5.00 | -66.92 | -33.15 | 0.00 | -3,755.53 | 0.00 | 3,755.53 | 5,055.67 | 2,527.83 | 10,632.1 | 5,323.99 | 0.09 | -0.16 | 0.529 |
| 6.00 | -66.40 | -33.10 | 0.00 | -3,722.38 | 0.00 | 3,722.38 | 5,040.63 | 2,520.32 | 10,554.7 | 5,285.22 | 0.13 | -0.20 | 0.527 |
| 7.00 | -65.89 | -33.04 | 0.00 | -3,689.29 | 0.00 | 3,689.29 | 5,025.54 | 2,512.77 | 10,477.4 | 5,246.53 | 0.17 | -0.23 | 0.525 |
| 8.00 | -65.38 | -32.99 | 0.00 | -3,656.25 | 0.00 | 3,656.25 | 5,010.40 | 2,505.20 | 10,400.3 | 5,207.92 | 0.22 | -0.26 | 0.524 |
| 9.00 | -64.87 | -32.93 | 0.00 | -3,623.26 | 0.00 | 3,623.26 | 4,995.19 | 2,497.60 | 10,323.4 | 5,169.39 | 0.28 | -0.30 | 0.522 |
| 10.00 | -64.36 | -32.88 | 0.00 | -3,590.33 | 0.00 | 3,590.33 | 4,979.93 | 2,489.97 | 10,246.6 | 5,130.93 | 0.35 | -0.33 | 0.520 |
| 11.00 | -63.85 | -32.82 | 0.00 | -3,557.46 | 0.00 | 3,557.46 | 4,964.61 | 2,482.31 | 10,170.0 | 5,092.56 | 0.42 | -0.36 | 0.519 |
| 12.00 | -63.35 | -32.76 | 0.00 | -3,524.64 | 0.00 | 3,524.64 | 4,949.24 | 2,474.62 | 10,093.5 | 5,054.27 | 0.50 | -0.40 | 0.517 |
| 13.00 | -62.84 | -32.71 | 0.00 | -3,491.87 | 0.00 | 3,491.87 | 4,933.81 | 2,466.90 | 10,017.2 | 5,016.06 | 0.59 | -0.43 | 0.515 |
| 14.00 | -62.34 | -32.65 | 0.00 | -3,459.17 | 0.00 | 3,459.17 | 4,918.32 | 2,459.16 | 9,941.08 | 4,977.93 | 0.68 | -0.47 | 0.514 |
| 15.00 | -61.84 | -32.59 | 0.00 | -3,426.52 | 0.00 | 3,426.52 | 4,902.77 | 2,451.39 | 9,865.10 | 4,939.88 | 0.79 | -0.50 | 0.512 |
| 16.00 | -61.34 | -32.54 | 0.00 | -3,393.92 | 0.00 | 3,393.92 | 4,887.17 | 2,443.58 | 9,789.30 | 4,901.92 | 0.89 | -0.53 | 0.510 |
| 17.00 | -60.84 | -32.48 | 0.00 | -3,361.39 | 0.00 | 3,361.39 | 4,871.51 | 2,435.75 | 9,713.66 | 4,864.05 | 1.01 | -0.57 | 0.508 |
| 18.00 | -60.34 | -32.42 | 0.00 | -3,328.91 | 0.00 | 3,328.91 | 4,855.79 | 2,427.89 | 9,638.20 | 4,826.26 | 1.13 | -0.60 | 0.507 |
| 19.00 | -59.84 | -32.36 | 0.00 | -3,296.49 | 0.00 | 3,296.49 | 4,840.02 | 2,420.01 | 9,562.90 | 4,788.56 | 1.26 | -0.64 | 0.505 |
| 20.00 | -59.35 | -32.31 | 0.00 | -3,264.13 | 0.00 | 3,264.13 | 4,824.18 | 2,412.09 | 9,487.79 | 4,750.94 | 1.40 | -0.67 | 0.503 |
| 21.00 | -58.86 | -32.25 | 0.00 | -3,231.82 | 0.00 | 3,231.82 | 4,808.29 | 2,404.15 | 9,412.84 | 4,713.42 | 1.54 | -0.70 | 0.501 |
| 22.00 | -58.36 | -32.19 | 0.00 | -3,199.57 | 0.00 | 3,199.57 | 4,792.35 | 2,396.17 | 9,338.08 | 4,675.98 | 1.70 | -0.74 | 0.499 |
| 23.00 | -57.87 | -32.13 | 0.00 | -3,167.39 | 0.00 | 3,167.39 | 4,776.35 | 2,388.17 | 9,263.49 | 4,638.63 | 1.86 | -0.77 | 0.497 |
| 24.00 | -57.38 | -32.07 | 0.00 | -3,135.26 | 0.00 | 3,135.26 | 4,760.29 | 2,380.14 | 9,189.09 | 4,601.37 | 2.02 | -0.81 | 0.495 |
| 25.00 | -56.89 | -32.01 | 0.00 | -3,103.19 | 0.00 | 3,103.19 | 4,744.17 | 2,372.08 | 9,114.87 | 4,564.21 | 2.19 | -0.84 | 0.494 |
| 26.00 | -56.40 | -31.95 | 0.00 | -3,071.18 | 0.00 | 3,071.18 | 4,728.00 | 2,364.00 | 9,040.83 | 4,527.13 | 2.38 | -0.88 | 0.492 |
| 27.00 | -55.92 | -31.89 | 0.00 | -3,039.23 | 0.00 | 3,039.23 | 4,711.76 | 2,355.88 | 8,966.98 | 4,490.15 | 2.56 | -0.91 | 0.490 |
| 28.00 | -55.43 | -31.83 | 0.00 | -3,007.34 | 0.00 | 3,007.34 | 4,695.48 | 2,347.74 | 8,893.31 | 4,453.26 | 2.76 | -0.95 | 0.488 |
| 29.00 | -54.95 | -31.77 | 0.00 | -2,975.51 | 0.00 | 2,975.51 | 4,679.13 | 2,339.57 | 8,819.83 | 4,416.47 | 2.96 | -0.98 | 0.486 |
| 30.00 | -54.46 | -31.68 | 0.00 | -2,943.74 | 0.00 | 2,943.74 | 4,662.73 | 2,331.36 | 8,746.54 | 4,379.77 | 3.17 | -1.02 | 0.484 |
| 31.00 | -53.97 | -31.62 | 0.00 | -2,912.05 | 0.00 | 2,912.05 | 4,646.27 | 2,323.14 | 8,673.45 | 4,343.17 | 3.39 | -1.05 | 0.482 |
| 32.00 | -53.49 | -31.56 | 0.00 | -2,880.44 | 0.00 | 2,880.44 | 4,629.75 | 2,314.88 | 8,600.55 | 4,306.67 | 3.61 | -1.09 | 0.479 |
| 33.00 | -53.02 | -31.49 | 0.00 | -2,848.88 | 0.00 | 2,848.88 | 4,613.18 | 2,306.59 | 8,527.84 | 4,270.26 | 3.84 | -1.12 | 0.477 |
| 34.00 | -52.54 | -31.43 | 0.00 | -2,817.39 | 0.00 | 2,817.39 | 4,596.55 | 2,298.27 | 8,455.33 | 4,233.95 | 4.08 | -1.16 | 0.475 |
| 35.00 | -52.06 | -31.36 | 0.00 | -2,785.96 | 0.00 | 2,785.96 | 4,579.86 | 2,289.93 | 8,383.01 | 4,197.74 | 4.33 | -1.19 | 0.473 |
| 36.00 | -51.59 | -31.30 | 0.00 | -2,754.60 | 0.00 | 2,754.60 | 4,563.12 | 2,281.56 | 8,310.90 | 4,161.63 | 4.58 | -1.23 | 0.471 |
| 37.00 | -51.12 | -31.23 | 0.00 | -2,723.30 | 0.00 | 2,723.30 | 4,546.32 | 2,273.16 | 8,238.99 | 4,125.62 | 4.85 | -1.26 | 0.469 |
| 38.00 | -50.65 | -31.16 | 0.00 | -2,692.07 | 0.00 | 2,692.07 | 4,529.46 | 2,264.73 | 8,167.27 | 4,089.71 | 5.11 | -1.30 | 0.467 |
| 39.00 | -50.18 | -31.09 | 0.00 | -2,660.92 | 0.00 | 2,660.92 | 4,512.54 | 2,256.27 | 8,095.77 | 4,053.90 | 5.39 | -1.33 | 0.464 |
| 40.00 | -49.71 | -31.02 | 0.00 | -2,629.83 | 0.00 | 2,629.83 | 4,495.22 | 2,247.61 | 8,016.71 | 4,014.31 | 5.67 | -1.37 | 0.462 |
| 41.00 | -49.24 | -30.95 | 0.00 | -2,598.81 | 0.00 | 2,598.81 | 4,468.58 | 2,234.29 | 7,935.69 | 3,973.74 | 5.96 | -1.41 | 0.461 |
| 42.00 | -48.77 | -30.88 | 0.00 | -2,567.86 | 0.00 | 2,567.86 | 4,445.95 | 2,222.97 | 7,855.09 | 3,933.38 | 6.26 | -1.44 | 0.459 |
| 42.96 | -48.34 | -30.83 | 0.00 | -2,538.33 | 0.00 | 2,538.33 | 4,424.29 | 2,212.15 | 7,778.37 | 3,894.97 | 6.56 | -1.48 | 0.457 |
| 43.00 | -48.30 | -30.80 | 0.00 | -2,536.99 | 0.00 | 2,536.99 | 4,423.31 | 2,211.65 | 7,774.90 | 3,893.23 | 6.57 | -1.48 | 0.453 |
| 44.00 | -47.62 | -30.72 | 0.00 | -2,506.19 | 0.00 | 2,506.19 | 4,400.67 | 2,200.33 | 7,695.11 | 3,853.28 | 6.88 | -1.51 | 0.451 |
| 45.00 | -46.95 | -30.64 | 0.00 | -2,475.47 | 0.00 | 2,475.47 | 4,378.03 | 2,189.01 | 7,615.75 | 3,813.53 | 7.20 | -1.55 | 0.449 |
| 46.00 | -46.28 | -30.55 | 0.00 | -2,444.83 | 0.00 | 2,444.83 | 4,355.39 | 2,177.70 | 7,536.79 | 3,773.99 | 7.53 | -1.58 | 0.447 |
| 47.00 | -45.61 | -30.47 | 0.00 | -2,414.28 | 0.00 | 2,414.28 | 4,332.75 | 2,166.38 | 7,458.24 | 3,734.66 | 7.87 | -1.62 | 0.445 |
| 48.00 | -44.95 | -30.38 | 0.00 | -2,383.81 | 0.00 | 2,383.81 | 4,310.11 | 2,155.06 | 7,380.10 | 3,695.54 | 8.21 | -1.65 | 0.443 |
| 49.00 | -44.29 | -30.33 | 0.00 | -2,353.43 | 0.00 | 2,353.43 | 4,287.47 | 2,143.74 | 7,302.38 | 3,656.62 | 8.56 | -1.69 | 0.441 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:31:47 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W

90 mph with No Ice

34 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

Dead Load Factor : 1.20

Wind Load Factor : 1.60

| | | | | | | | | | | | | | |
|--------|--------|--------|------|-----------|------|----------|----------|----------|----------|----------|-------|-------|-------|
| 49.04 | -44.26 | -30.29 | 0.00 | -2,352.22 | 0.00 | 2,352.22 | 3,622.99 | 1,811.50 | 6,300.42 | 3,154.89 | 8.58 | -1.69 | 0.495 |
| 50.00 | -43.85 | -30.22 | 0.00 | -2,323.14 | 0.00 | 2,323.14 | 3,610.23 | 1,805.12 | 6,246.74 | 3,128.01 | 8.92 | -1.73 | 0.492 |
| 51.00 | -43.43 | -30.14 | 0.00 | -2,292.92 | 0.00 | 2,292.92 | 3,596.89 | 1,798.44 | 6,190.96 | 3,100.08 | 9.29 | -1.76 | 0.489 |
| 52.00 | -43.00 | -30.06 | 0.00 | -2,262.78 | 0.00 | 2,262.78 | 3,583.49 | 1,791.74 | 6,135.33 | 3,072.23 | 9.66 | -1.80 | 0.486 |
| 53.00 | -42.58 | -29.98 | 0.00 | -2,232.73 | 0.00 | 2,232.73 | 3,570.03 | 1,785.02 | 6,079.85 | 3,044.45 | 10.04 | -1.84 | 0.482 |
| 54.00 | -42.16 | -29.90 | 0.00 | -2,202.75 | 0.00 | 2,202.75 | 3,556.52 | 1,778.26 | 6,024.52 | 3,016.74 | 10.43 | -1.88 | 0.479 |
| 55.00 | -41.73 | -29.82 | 0.00 | -2,172.85 | 0.00 | 2,172.85 | 3,542.95 | 1,771.47 | 5,969.33 | 2,989.10 | 10.83 | -1.92 | 0.476 |
| 56.00 | -41.32 | -29.73 | 0.00 | -2,143.04 | 0.00 | 2,143.04 | 3,529.32 | 1,764.66 | 5,914.30 | 2,961.55 | 11.23 | -1.95 | 0.473 |
| 57.00 | -40.90 | -29.65 | 0.00 | -2,113.31 | 0.00 | 2,113.31 | 3,515.63 | 1,757.82 | 5,859.42 | 2,934.06 | 11.65 | -1.99 | 0.469 |
| 58.00 | -40.48 | -29.57 | 0.00 | -2,083.66 | 0.00 | 2,083.66 | 3,501.89 | 1,750.94 | 5,804.69 | 2,906.66 | 12.07 | -2.03 | 0.466 |
| 59.00 | -40.06 | -29.48 | 0.00 | -2,054.09 | 0.00 | 2,054.09 | 3,488.09 | 1,744.04 | 5,750.12 | 2,879.33 | 12.50 | -2.07 | 0.462 |
| 60.00 | -39.65 | -29.40 | 0.00 | -2,024.61 | 0.00 | 2,024.61 | 3,474.23 | 1,737.12 | 5,695.71 | 2,852.09 | 12.94 | -2.10 | 0.459 |
| 61.00 | -39.24 | -29.31 | 0.00 | -1,995.22 | 0.00 | 1,995.22 | 3,460.32 | 1,730.16 | 5,641.45 | 2,824.92 | 13.38 | -2.14 | 0.455 |
| 62.00 | -38.82 | -29.22 | 0.00 | -1,965.91 | 0.00 | 1,965.91 | 3,446.35 | 1,723.17 | 5,587.36 | 2,797.83 | 13.83 | -2.18 | 0.452 |
| 63.00 | -38.41 | -29.13 | 0.00 | -1,936.69 | 0.00 | 1,936.69 | 3,432.32 | 1,716.16 | 5,533.43 | 2,770.83 | 14.30 | -2.22 | 0.448 |
| 64.00 | -38.00 | -29.03 | 0.00 | -1,907.55 | 0.00 | 1,907.55 | 3,418.23 | 1,709.12 | 5,479.66 | 2,743.90 | 14.76 | -2.26 | 0.445 |
| 65.00 | -37.60 | -28.87 | 0.00 | -1,878.53 | 0.00 | 1,878.53 | 3,404.09 | 1,702.05 | 5,426.05 | 2,717.06 | 15.24 | -2.29 | 0.441 |
| 66.00 | -37.19 | -28.71 | 0.00 | -1,849.66 | 0.00 | 1,849.66 | 3,389.89 | 1,694.95 | 5,372.62 | 2,690.30 | 15.73 | -2.33 | 0.437 |
| 67.00 | -36.79 | -28.56 | 0.00 | -1,820.95 | 0.00 | 1,820.95 | 3,375.64 | 1,687.82 | 5,319.35 | 2,663.63 | 16.22 | -2.37 | 0.434 |
| 68.00 | -36.39 | -28.40 | 0.00 | -1,792.39 | 0.00 | 1,792.39 | 3,361.32 | 1,680.66 | 5,266.25 | 2,637.04 | 16.72 | -2.41 | 0.430 |
| 69.00 | -35.99 | -28.24 | 0.00 | -1,763.99 | 0.00 | 1,763.99 | 3,346.95 | 1,673.48 | 5,213.32 | 2,610.53 | 17.23 | -2.44 | 0.426 |
| 70.00 | -35.59 | -28.08 | 0.00 | -1,735.75 | 0.00 | 1,735.75 | 3,332.53 | 1,666.26 | 5,160.56 | 2,584.12 | 17.74 | -2.48 | 0.423 |
| 71.00 | -35.19 | -27.93 | 0.00 | -1,707.67 | 0.00 | 1,707.67 | 3,318.04 | 1,659.02 | 5,107.98 | 2,557.79 | 18.27 | -2.52 | 0.419 |
| 72.00 | -34.79 | -27.77 | 0.00 | -1,679.74 | 0.00 | 1,679.74 | 3,300.52 | 1,650.26 | 5,051.01 | 2,529.26 | 18.80 | -2.56 | 0.415 |
| 73.00 | -34.40 | -27.61 | 0.00 | -1,651.98 | 0.00 | 1,651.98 | 3,281.11 | 1,640.56 | 4,991.50 | 2,499.46 | 19.34 | -2.59 | 0.412 |
| 74.00 | -34.00 | -27.45 | 0.00 | -1,624.37 | 0.00 | 1,624.37 | 3,261.71 | 1,630.85 | 4,932.34 | 2,469.84 | 19.89 | -2.63 | 0.409 |
| 75.00 | -33.61 | -27.29 | 0.00 | -1,596.92 | 0.00 | 1,596.92 | 3,242.30 | 1,621.15 | 4,873.54 | 2,440.39 | 20.44 | -2.67 | 0.406 |
| 76.00 | -33.22 | -27.13 | 0.00 | -1,569.63 | 0.00 | 1,569.63 | 3,222.90 | 1,611.45 | 4,815.08 | 2,411.12 | 21.00 | -2.70 | 0.402 |
| 77.00 | -32.83 | -26.97 | 0.00 | -1,542.50 | 0.00 | 1,542.50 | 3,203.49 | 1,601.75 | 4,756.98 | 2,382.03 | 21.57 | -2.74 | 0.399 |
| 78.00 | -32.44 | -26.81 | 0.00 | -1,515.53 | 0.00 | 1,515.53 | 3,184.09 | 1,592.04 | 4,699.23 | 2,353.11 | 22.15 | -2.78 | 0.395 |
| 79.00 | -32.05 | -26.64 | 0.00 | -1,488.73 | 0.00 | 1,488.73 | 3,164.68 | 1,582.34 | 4,641.84 | 2,324.37 | 22.74 | -2.81 | 0.392 |
| 80.00 | -31.67 | -26.48 | 0.00 | -1,462.08 | 0.00 | 1,462.08 | 3,145.28 | 1,572.64 | 4,584.79 | 2,295.80 | 23.33 | -2.85 | 0.389 |
| 81.00 | -31.28 | -26.32 | 0.00 | -1,435.60 | 0.00 | 1,435.60 | 3,125.87 | 1,562.94 | 4,528.10 | 2,267.42 | 23.93 | -2.89 | 0.385 |
| 82.00 | -30.90 | -26.16 | 0.00 | -1,409.28 | 0.00 | 1,409.28 | 3,106.47 | 1,553.24 | 4,471.77 | 2,239.21 | 24.54 | -2.92 | 0.381 |
| 83.00 | -30.52 | -26.00 | 0.00 | -1,383.12 | 0.00 | 1,383.12 | 3,087.07 | 1,543.53 | 4,415.78 | 2,211.17 | 25.16 | -2.96 | 0.378 |
| 84.00 | -30.14 | -25.84 | 0.00 | -1,357.12 | 0.00 | 1,357.12 | 3,067.66 | 1,533.83 | 4,360.15 | 2,183.32 | 25.78 | -3.00 | 0.374 |
| 85.00 | -29.76 | -25.68 | 0.00 | -1,331.28 | 0.00 | 1,331.28 | 3,048.26 | 1,524.13 | 4,304.87 | 2,155.63 | 26.41 | -3.03 | 0.371 |
| 86.00 | -29.38 | -25.52 | 0.00 | -1,305.60 | 0.00 | 1,305.60 | 3,028.85 | 1,514.43 | 4,249.94 | 2,128.13 | 27.05 | -3.07 | 0.367 |
| 87.00 | -29.00 | -25.38 | 0.00 | -1,280.09 | 0.00 | 1,280.09 | 3,009.45 | 1,504.72 | 4,195.37 | 2,100.80 | 27.70 | -3.10 | 0.363 |
| 87.54 | -28.80 | -25.30 | 0.00 | -1,266.38 | 0.00 | 1,266.38 | 2,998.97 | 1,499.48 | 4,166.05 | 2,086.12 | 28.05 | -3.12 | 0.361 |
| 88.00 | -28.56 | -25.18 | 0.00 | -1,254.75 | 0.00 | 1,254.75 | 2,990.04 | 1,495.02 | 4,141.15 | 2,073.65 | 28.35 | -3.14 | 0.355 |
| 89.00 | -28.05 | -25.01 | 0.00 | -1,229.56 | 0.00 | 1,229.56 | 2,970.64 | 1,485.32 | 4,087.28 | 2,046.68 | 29.02 | -3.17 | 0.351 |
| 90.00 | -27.54 | -24.84 | 0.00 | -1,204.55 | 0.00 | 1,204.55 | 2,951.23 | 1,475.62 | 4,033.76 | 2,019.88 | 29.68 | -3.21 | 0.347 |
| 91.00 | -27.03 | -24.67 | 0.00 | -1,179.71 | 0.00 | 1,179.71 | 2,931.83 | 1,465.91 | 3,980.60 | 1,993.26 | 30.36 | -3.24 | 0.343 |
| 92.00 | -26.53 | -24.52 | 0.00 | -1,155.05 | 0.00 | 1,155.05 | 2,912.42 | 1,456.21 | 3,927.79 | 1,966.81 | 31.04 | -3.28 | 0.339 |
| 92.46 | -26.30 | -24.44 | 0.00 | -1,143.85 | 0.00 | 1,143.85 | 2,424.49 | 1,212.24 | 3,334.85 | 1,669.90 | 31.36 | -3.29 | 0.374 |
| 93.00 | -26.11 | -24.32 | 0.00 | -1,130.57 | 0.00 | 1,130.57 | 2,418.22 | 1,209.11 | 3,314.29 | 1,659.61 | 31.73 | -3.31 | 0.371 |
| 94.00 | -25.76 | -24.16 | 0.00 | -1,106.24 | 0.00 | 1,106.24 | 2,406.65 | 1,203.32 | 3,276.56 | 1,640.72 | 32.43 | -3.35 | 0.366 |
| 95.00 | -25.42 | -24.00 | 0.00 | -1,082.08 | 0.00 | 1,082.08 | 2,395.02 | 1,197.51 | 3,238.97 | 1,621.89 | 33.14 | -3.39 | 0.361 |
| 96.00 | -24.53 | -23.24 | 0.00 | -1,058.09 | 0.00 | 1,058.09 | 2,383.33 | 1,191.67 | 3,201.50 | 1,603.13 | 33.85 | -3.42 | 0.355 |
| 97.00 | -24.19 | -23.07 | 0.00 | -1,034.85 | 0.00 | 1,034.85 | 2,371.59 | 1,185.79 | 3,164.18 | 1,584.44 | 34.57 | -3.46 | 0.350 |
| 98.00 | -23.85 | -22.91 | 0.00 | -1,011.78 | 0.00 | 1,011.78 | 2,359.79 | 1,179.89 | 3,126.99 | 1,565.82 | 35.30 | -3.49 | 0.345 |
| 99.00 | -23.51 | -22.74 | 0.00 | -988.87 | 0.00 | 988.87 | 2,347.93 | 1,173.97 | 3,089.94 | 1,547.27 | 36.03 | -3.53 | 0.340 |
| 100.00 | -23.18 | -22.58 | 0.00 | -966.13 | 0.00 | 966.13 | 2,336.02 | 1,168.01 | 3,053.03 | 1,528.79 | 36.78 | -3.56 | 0.334 |
| 101.00 | -22.84 | -22.42 | 0.00 | -943.55 | 0.00 | 943.55 | 2,324.05 | 1,162.02 | 3,016.27 | 1,510.38 | 37.53 | -3.60 | 0.329 |
| 102.00 | -22.51 | -22.25 | 0.00 | -921.13 | 0.00 | 921.13 | 2,312.02 | 1,156.01 | 2,979.65 | 1,492.04 | 38.28 | -3.63 | 0.324 |
| 103.00 | -22.18 | -22.10 | 0.00 | -898.88 | 0.00 | 898.88 | 2,299.80 | 1,149.90 | 2,943.01 | 1,473.69 | 39.05 | -3.67 | 0.318 |

| Load Case: 1.2D + 1.6W | | | | 90 mph with No Ice | | | | 34 Iterations | | | | | |
|-----------------------------|--------|--------|------|--------------------|------|--------|----------|-------------------------------|----------|----------|-------|-------|-------|
| Gust Response Factor : 1.10 | | | | | | | | Wind Importance Factor : 1.15 | | | | | |
| Dead Load Factor : 1.20 | | | | | | | | | | | | | |
| Wind Load Factor : 1.60 | | | | | | | | | | | | | |
| 103.75 | -21.93 | -22.01 | 0.00 | -882.30 | 0.00 | 882.30 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 39.63 | -3.69 | 0.315 |
| 103.75 | -21.93 | -22.01 | 0.00 | -882.30 | 0.00 | 882.30 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 39.63 | -3.69 | 0.615 |
| 104.00 | -21.86 | -21.93 | 0.00 | -876.80 | 0.00 | 876.80 | 2,283.63 | 1,141.82 | 2,901.57 | 1,452.94 | 39.82 | -3.70 | 0.613 |
| 105.00 | -21.53 | -21.36 | 0.00 | -854.87 | 0.00 | 854.87 | 2,267.46 | 1,133.73 | 2,860.42 | 1,432.33 | 40.60 | -3.77 | 0.607 |
| 106.00 | -21.27 | -21.21 | 0.00 | -833.51 | 0.00 | 833.51 | 2,251.29 | 1,125.65 | 2,819.56 | 1,411.88 | 41.40 | -3.83 | 0.600 |
| 107.00 | -21.02 | -21.07 | 0.00 | -812.30 | 0.00 | 812.30 | 2,235.12 | 1,117.56 | 2,779.00 | 1,391.56 | 42.21 | -3.90 | 0.593 |
| 108.00 | -20.77 | -20.92 | 0.00 | -791.23 | 0.00 | 791.23 | 2,218.95 | 1,109.48 | 2,738.73 | 1,371.40 | 43.03 | -3.96 | 0.587 |
| 109.00 | -20.52 | -20.78 | 0.00 | -770.31 | 0.00 | 770.31 | 2,202.78 | 1,101.39 | 2,698.75 | 1,351.38 | 43.87 | -4.03 | 0.580 |
| 110.00 | -20.27 | -20.63 | 0.00 | -749.53 | 0.00 | 749.53 | 2,186.61 | 1,093.30 | 2,659.07 | 1,331.51 | 44.72 | -4.09 | 0.573 |
| 111.00 | -20.02 | -20.48 | 0.00 | -728.91 | 0.00 | 728.91 | 2,170.44 | 1,085.22 | 2,619.69 | 1,311.79 | 45.58 | -4.16 | 0.565 |
| 112.00 | -17.92 | -18.28 | 0.00 | -708.42 | 0.00 | 708.42 | 2,154.27 | 1,077.13 | 2,580.59 | 1,292.21 | 46.46 | -4.22 | 0.557 |
| 113.00 | -17.71 | -18.19 | 0.00 | -690.14 | 0.00 | 690.14 | 2,138.10 | 1,069.05 | 2,541.79 | 1,272.79 | 47.35 | -4.28 | 0.551 |
| 114.00 | -17.52 | -18.04 | 0.00 | -671.95 | 0.00 | 671.95 | 2,121.93 | 1,060.96 | 2,503.29 | 1,253.50 | 48.25 | -4.35 | 0.545 |
| 115.00 | -17.34 | -17.89 | 0.00 | -653.91 | 0.00 | 653.91 | 2,105.76 | 1,052.88 | 2,465.08 | 1,234.37 | 49.17 | -4.41 | 0.538 |
| 116.00 | -17.17 | -17.75 | 0.00 | -636.02 | 0.00 | 636.02 | 2,089.59 | 1,044.79 | 2,427.16 | 1,215.38 | 50.10 | -4.47 | 0.532 |
| 117.00 | -16.99 | -17.60 | 0.00 | -618.27 | 0.00 | 618.27 | 2,073.42 | 1,036.71 | 2,389.54 | 1,196.54 | 51.04 | -4.54 | 0.525 |
| 118.00 | -16.81 | -17.46 | 0.00 | -600.67 | 0.00 | 600.67 | 2,057.25 | 1,028.62 | 2,352.21 | 1,177.85 | 52.00 | -4.60 | 0.518 |
| 119.00 | -16.64 | -17.31 | 0.00 | -583.21 | 0.00 | 583.21 | 2,041.07 | 1,020.54 | 2,315.17 | 1,159.31 | 52.97 | -4.66 | 0.512 |
| 120.00 | -16.46 | -17.17 | 0.00 | -565.90 | 0.00 | 565.90 | 2,024.90 | 1,012.45 | 2,278.43 | 1,140.91 | 53.95 | -4.72 | 0.504 |
| 121.00 | -16.29 | -17.02 | 0.00 | -548.73 | 0.00 | 548.73 | 2,008.73 | 1,004.37 | 2,241.98 | 1,122.66 | 54.94 | -4.78 | 0.497 |
| 122.00 | -16.12 | -16.88 | 0.00 | -531.71 | 0.00 | 531.71 | 1,992.56 | 996.28 | 2,205.83 | 1,104.55 | 55.95 | -4.84 | 0.490 |
| 123.00 | -15.95 | -16.73 | 0.00 | -514.83 | 0.00 | 514.83 | 1,976.39 | 988.20 | 2,169.97 | 1,086.60 | 56.97 | -4.90 | 0.482 |
| 124.00 | -15.78 | -16.59 | 0.00 | -498.10 | 0.00 | 498.10 | 1,960.22 | 980.11 | 2,134.40 | 1,068.79 | 58.00 | -4.96 | 0.474 |
| 125.00 | -13.24 | -14.30 | 0.00 | -481.51 | 0.00 | 481.51 | 1,944.05 | 972.03 | 2,099.13 | 1,051.12 | 59.05 | -5.02 | 0.465 |
| 126.00 | -13.08 | -14.23 | 0.00 | -467.21 | 0.00 | 467.21 | 1,927.88 | 963.94 | 2,064.15 | 1,033.61 | 60.10 | -5.08 | 0.459 |
| 127.00 | -12.92 | -14.16 | 0.00 | -452.98 | 0.00 | 452.98 | 1,911.71 | 955.86 | 2,029.46 | 1,016.24 | 61.17 | -5.14 | 0.453 |
| 128.00 | -12.76 | -14.09 | 0.00 | -438.82 | 0.00 | 438.82 | 1,895.54 | 947.77 | 1,995.07 | 999.02 | 62.25 | -5.20 | 0.446 |
| 129.00 | -12.60 | -14.02 | 0.00 | -424.73 | 0.00 | 424.73 | 1,879.37 | 939.68 | 1,960.98 | 981.95 | 63.35 | -5.25 | 0.439 |
| 130.00 | -12.44 | -13.95 | 0.00 | -410.71 | 0.00 | 410.71 | 1,863.20 | 931.60 | 1,927.17 | 965.02 | 64.45 | -5.31 | 0.432 |
| 131.00 | -12.28 | -13.88 | 0.00 | -396.76 | 0.00 | 396.76 | 1,847.03 | 923.51 | 1,893.66 | 948.24 | 65.57 | -5.37 | 0.425 |
| 132.00 | -12.13 | -13.83 | 0.00 | -382.88 | 0.00 | 382.88 | 1,830.86 | 915.43 | 1,860.45 | 931.61 | 66.70 | -5.42 | 0.418 |
| 132.12 | -12.11 | -13.80 | 0.00 | -381.23 | 0.00 | 381.23 | 1,828.92 | 914.46 | 1,856.49 | 929.63 | 66.83 | -5.43 | 0.417 |
| 133.00 | -11.91 | -13.73 | 0.00 | -369.08 | 0.00 | 369.08 | 1,814.69 | 907.34 | 1,827.53 | 915.12 | 67.84 | -5.48 | 0.410 |
| 134.00 | -11.70 | -13.65 | 0.00 | -355.35 | 0.00 | 355.35 | 1,798.52 | 899.26 | 1,794.90 | 898.78 | 68.99 | -5.53 | 0.402 |
| 135.00 | -8.35 | -10.49 | 0.00 | -341.69 | 0.00 | 341.69 | 1,782.35 | 891.17 | 1,762.57 | 882.59 | 70.15 | -5.59 | 0.392 |
| 135.87 | -8.17 | -10.44 | 0.00 | -332.57 | 0.00 | 332.57 | 999.39 | 499.70 | 1,006.16 | 503.83 | 71.17 | -5.64 | 0.669 |
| 136.00 | -8.15 | -10.41 | 0.00 | -331.21 | 0.00 | 331.21 | 998.64 | 499.32 | 1,004.22 | 502.86 | 71.33 | -5.64 | 0.667 |
| 137.00 | -8.04 | -10.34 | 0.00 | -320.81 | 0.00 | 320.81 | 992.83 | 496.42 | 989.37 | 495.42 | 72.52 | -5.73 | 0.656 |
| 138.00 | -7.93 | -10.27 | 0.00 | -310.47 | 0.00 | 310.47 | 986.97 | 493.49 | 974.56 | 488.00 | 73.72 | -5.81 | 0.645 |
| 139.00 | -7.82 | -10.21 | 0.00 | -300.19 | 0.00 | 300.19 | 981.05 | 490.53 | 959.80 | 480.61 | 74.95 | -5.89 | 0.633 |
| 140.00 | -7.04 | -8.87 | 0.00 | -283.88 | 0.00 | 283.88 | 975.08 | 487.54 | 945.09 | 473.25 | 76.19 | -5.98 | 0.607 |
| 141.00 | -6.94 | -8.80 | 0.00 | -275.01 | 0.00 | 275.01 | 969.05 | 484.52 | 930.44 | 465.91 | 77.45 | -6.06 | 0.598 |
| 142.00 | -6.84 | -8.74 | 0.00 | -266.21 | 0.00 | 266.21 | 962.96 | 481.48 | 915.84 | 458.60 | 78.72 | -6.14 | 0.588 |
| 143.00 | -6.74 | -8.67 | 0.00 | -257.47 | 0.00 | 257.47 | 956.81 | 478.41 | 901.30 | 451.32 | 80.02 | -6.22 | 0.578 |
| 144.00 | -6.65 | -8.60 | 0.00 | -248.80 | 0.00 | 248.80 | 950.61 | 475.30 | 886.82 | 444.07 | 81.32 | -6.30 | 0.568 |
| 145.00 | -6.55 | -8.54 | 0.00 | -240.20 | 0.00 | 240.20 | 944.35 | 472.17 | 872.40 | 436.85 | 82.65 | -6.38 | 0.557 |
| 146.00 | -6.45 | -8.47 | 0.00 | -231.66 | 0.00 | 231.66 | 938.03 | 469.01 | 858.03 | 429.66 | 83.99 | -6.45 | 0.546 |
| 147.00 | -6.36 | -8.40 | 0.00 | -223.20 | 0.00 | 223.20 | 931.66 | 465.83 | 843.74 | 422.50 | 85.35 | -6.53 | 0.535 |
| 148.00 | -6.26 | -8.33 | 0.00 | -214.80 | 0.00 | 214.80 | 925.22 | 462.61 | 829.51 | 415.37 | 86.72 | -6.61 | 0.524 |
| 149.00 | -6.17 | -8.27 | 0.00 | -206.46 | 0.00 | 206.46 | 918.73 | 459.37 | 815.34 | 408.28 | 88.11 | -6.69 | 0.513 |
| 150.00 | -5.91 | -7.98 | 0.00 | -198.20 | 0.00 | 198.20 | 912.19 | 456.09 | 801.24 | 401.22 | 89.52 | -6.76 | 0.501 |
| 151.00 | -5.82 | -7.91 | 0.00 | -190.22 | 0.00 | 190.22 | 905.59 | 452.79 | 787.21 | 394.19 | 90.94 | -6.84 | 0.489 |
| 152.00 | -5.73 | -7.84 | 0.00 | -182.32 | 0.00 | 182.32 | 898.93 | 449.46 | 773.25 | 387.20 | 92.38 | -6.91 | 0.478 |
| 153.00 | -5.64 | -7.77 | 0.00 | -174.48 | 0.00 | 174.48 | 892.21 | 446.10 | 759.37 | 380.25 | 93.83 | -6.98 | 0.465 |
| 154.00 | -5.55 | -7.71 | 0.00 | -166.70 | 0.00 | 166.70 | 885.44 | 442.72 | 745.56 | 373.33 | 95.30 | -7.06 | 0.453 |
| 155.00 | -5.47 | -7.64 | 0.00 | -159.00 | 0.00 | 159.00 | 878.60 | 439.30 | 731.82 | 366.45 | 96.78 | -7.13 | 0.440 |
| 156.00 | -5.38 | -7.57 | 0.00 | -151.36 | 0.00 | 151.36 | 871.72 | 435.86 | 718.16 | 359.61 | 98.27 | -7.20 | 0.427 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:31:47 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.6W

90 mph with No Ice

34 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

Dead Load Factor : 1.20

Wind Load Factor : 1.60

| | | | | | | | | | | | | | |
|--------|-------|-------|------|---------|------|--------|--------|--------|--------|--------|--------|-------|-------|
| 157.00 | -5.30 | -7.50 | 0.00 | -143.79 | 0.00 | 143.79 | 864.77 | 432.39 | 704.58 | 352.81 | 99.79 | -7.27 | 0.414 |
| 158.00 | -5.21 | -7.44 | 0.00 | -136.29 | 0.00 | 136.29 | 857.77 | 428.88 | 691.08 | 346.05 | 101.31 | -7.34 | 0.400 |
| 159.00 | -5.13 | -7.37 | 0.00 | -128.85 | 0.00 | 128.85 | 850.71 | 425.35 | 677.66 | 339.34 | 102.85 | -7.40 | 0.386 |
| 160.00 | -5.04 | -7.29 | 0.00 | -121.48 | 0.00 | 121.48 | 843.59 | 421.80 | 664.33 | 332.66 | 104.40 | -7.47 | 0.371 |
| 161.00 | -4.97 | -7.18 | 0.00 | -114.19 | 0.00 | 114.19 | 836.42 | 418.21 | 651.08 | 326.02 | 105.97 | -7.53 | 0.356 |
| 162.00 | -4.89 | -7.07 | 0.00 | -107.01 | 0.00 | 107.01 | 829.19 | 414.59 | 637.92 | 319.43 | 107.55 | -7.59 | 0.341 |
| 163.00 | -4.82 | -6.96 | 0.00 | -99.94 | 0.00 | 99.94 | 819.85 | 409.92 | 623.28 | 312.10 | 109.14 | -7.65 | 0.326 |
| 164.00 | -4.74 | -6.86 | 0.00 | -92.98 | 0.00 | 92.98 | 810.15 | 405.07 | 608.54 | 304.72 | 110.75 | -7.71 | 0.311 |
| 165.00 | -4.67 | -6.75 | 0.00 | -86.12 | 0.00 | 86.12 | 800.44 | 400.22 | 593.98 | 297.43 | 112.36 | -7.76 | 0.296 |
| 166.00 | -4.60 | -6.64 | 0.00 | -79.38 | 0.00 | 79.38 | 790.74 | 395.37 | 579.60 | 290.23 | 113.99 | -7.81 | 0.280 |
| 167.00 | -3.23 | -4.73 | 0.00 | -72.73 | 0.00 | 72.73 | 781.04 | 390.52 | 565.39 | 283.11 | 115.63 | -7.86 | 0.261 |
| 168.00 | -3.17 | -4.68 | 0.00 | -68.00 | 0.00 | 68.00 | 771.34 | 385.67 | 551.35 | 276.09 | 117.27 | -7.91 | 0.251 |
| 169.00 | -3.10 | -4.63 | 0.00 | -63.32 | 0.00 | 63.32 | 761.63 | 380.82 | 537.50 | 269.15 | 118.93 | -7.96 | 0.239 |
| 170.00 | -3.04 | -4.58 | 0.00 | -58.68 | 0.00 | 58.68 | 751.93 | 375.97 | 523.82 | 262.30 | 120.60 | -8.01 | 0.228 |
| 171.00 | -2.98 | -4.53 | 0.00 | -54.10 | 0.00 | 54.10 | 742.23 | 371.11 | 510.32 | 255.54 | 122.27 | -8.05 | 0.216 |
| 172.00 | -2.92 | -4.49 | 0.00 | -49.57 | 0.00 | 49.57 | 732.53 | 366.26 | 496.99 | 248.86 | 123.96 | -8.09 | 0.203 |
| 173.00 | -2.86 | -4.44 | 0.00 | -45.08 | 0.00 | 45.08 | 722.82 | 361.41 | 483.84 | 242.28 | 125.65 | -8.13 | 0.190 |
| 174.00 | -2.80 | -4.39 | 0.00 | -40.64 | 0.00 | 40.64 | 713.12 | 356.56 | 470.86 | 235.78 | 127.35 | -8.17 | 0.176 |
| 175.00 | -2.74 | -4.34 | 0.00 | -36.26 | 0.00 | 36.26 | 703.42 | 351.71 | 458.07 | 229.37 | 129.06 | -8.20 | 0.162 |
| 176.00 | -2.68 | -4.29 | 0.00 | -31.91 | 0.00 | 31.91 | 693.72 | 346.86 | 445.44 | 223.05 | 130.78 | -8.23 | 0.147 |
| 177.00 | -2.62 | -4.25 | 0.00 | -27.62 | 0.00 | 27.62 | 684.02 | 342.01 | 433.00 | 216.82 | 132.50 | -8.26 | 0.131 |
| 178.00 | -2.57 | -4.20 | 0.00 | -23.37 | 0.00 | 23.37 | 674.31 | 337.16 | 420.73 | 210.68 | 134.23 | -8.29 | 0.115 |
| 179.00 | -2.51 | -4.15 | 0.00 | -19.17 | 0.00 | 19.17 | 664.61 | 332.31 | 408.64 | 204.62 | 135.96 | -8.31 | 0.098 |
| 180.00 | 0.00 | -3.75 | 0.00 | -15.02 | 0.00 | 15.02 | 654.91 | 327.45 | 396.72 | 198.65 | 137.70 | -8.33 | 0.076 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:31:47 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W

90 mph with No Ice (Reduced DL)

34 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

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 | | 40.4 | 0.0 | | | | | 0.0 | 0.0 | 40.4 | 0.0 | 0.0 | 0.0 |
| 1.00 | | 80.6 | 222.0 | | | | | 0.0 | 153.6 | 80.6 | 375.6 | 0.0 | 0.0 |
| 2.00 | | 80.3 | 221.1 | | | | | 0.0 | 153.6 | 80.3 | 374.6 | 0.0 | 0.0 |
| 3.00 | | 80.0 | 220.1 | | | | | 0.0 | 153.6 | 80.0 | 373.7 | 0.0 | 0.0 |
| 4.00 | | 79.6 | 219.2 | | | | | 0.0 | 153.6 | 79.6 | 372.8 | 0.0 | 0.0 |
| 5.00 | | 79.3 | 218.3 | | | | | 0.0 | 153.6 | 79.3 | 371.8 | 0.0 | 0.0 |
| 6.00 | | 79.0 | 217.3 | | | | | 0.0 | 153.6 | 79.0 | 370.9 | 0.0 | 0.0 |
| 7.00 | | 78.6 | 216.4 | | | | | 0.0 | 153.6 | 78.6 | 370.0 | 0.0 | 0.0 |
| 8.00 | | 78.3 | 215.5 | | | | | 0.0 | 153.6 | 78.3 | 369.0 | 0.0 | 0.0 |
| 9.00 | | 77.9 | 214.5 | | | | | 0.0 | 153.6 | 77.9 | 368.1 | 0.0 | 0.0 |
| 10.00 | | 77.6 | 213.6 | | | | | 0.0 | 153.6 | 77.6 | 367.2 | 0.0 | 0.0 |
| 11.00 | | 77.3 | 212.7 | | | | | 0.0 | 153.6 | 77.3 | 366.2 | 0.0 | 0.0 |
| 12.00 | | 76.9 | 211.7 | | | | | 0.0 | 153.6 | 76.9 | 365.3 | 0.0 | 0.0 |
| 13.00 | | 76.6 | 210.8 | | | | | 0.0 | 153.6 | 76.6 | 364.4 | 0.0 | 0.0 |
| 14.00 | | 76.3 | 209.9 | | | | | 0.0 | 153.6 | 76.3 | 363.4 | 0.0 | 0.0 |
| 15.00 | | 75.9 | 208.9 | | | | | 0.0 | 153.6 | 75.9 | 362.5 | 0.0 | 0.0 |
| 16.00 | | 75.6 | 208.0 | | | | | 0.0 | 153.6 | 75.6 | 361.6 | 0.0 | 0.0 |
| 17.00 | | 75.2 | 207.1 | | | | | 0.0 | 153.6 | 75.2 | 360.6 | 0.0 | 0.0 |
| 18.00 | | 74.9 | 206.1 | | | | | 0.0 | 153.6 | 74.9 | 359.7 | 0.0 | 0.0 |
| 19.00 | | 74.6 | 205.2 | | | | | 0.0 | 153.6 | 74.6 | 358.8 | 0.0 | 0.0 |
| 20.00 | | 74.2 | 204.3 | | | | | 0.0 | 153.6 | 74.2 | 357.8 | 0.0 | 0.0 |
| 21.00 | | 73.9 | 203.3 | | | | | 0.0 | 153.6 | 73.9 | 356.9 | 0.0 | 0.0 |
| 22.00 | | 73.6 | 202.4 | | | | | 0.0 | 153.6 | 73.6 | 356.0 | 0.0 | 0.0 |
| 23.00 | | 73.2 | 201.5 | | | | | 0.0 | 153.6 | 73.2 | 355.0 | 0.0 | 0.0 |
| 24.00 | | 72.9 | 200.5 | | | | | 0.0 | 153.6 | 72.9 | 354.1 | 0.0 | 0.0 |
| 25.00 | | 72.6 | 199.6 | | | | | 0.0 | 153.6 | 72.6 | 353.2 | 0.0 | 0.0 |
| 26.00 | | 72.2 | 198.7 | | | | | 0.0 | 153.6 | 72.2 | 352.2 | 0.0 | 0.0 |
| 27.00 | | 71.9 | 197.7 | | | | | 0.0 | 153.6 | 71.9 | 351.3 | 0.0 | 0.0 |
| 28.00 | | 71.5 | 196.8 | | | | | 0.0 | 153.6 | 71.5 | 350.4 | 0.0 | 0.0 |
| 29.00 | | 71.2 | 195.9 | | | | | 0.0 | 153.6 | 71.2 | 349.4 | 0.0 | 0.0 |
| 30.00 | Appertunance(s) | 71.1 | 194.9 | 27.9 | 0.0 | 0.0 | 9.0 | 0.0 | 153.6 | 99.0 | 357.5 | 0.0 | 0.0 |
| 31.00 | | 71.3 | 194.0 | | | | | 0.0 | 153.3 | 71.3 | 347.3 | 0.0 | 0.0 |
| 32.00 | | 71.6 | 193.1 | | | | | 0.0 | 153.3 | 71.6 | 346.3 | 0.0 | 0.0 |
| 33.00 | | 71.8 | 192.1 | | | | | 0.0 | 153.3 | 71.8 | 345.4 | 0.0 | 0.0 |
| 34.00 | | 72.1 | 191.2 | | | | | 0.0 | 153.3 | 72.1 | 344.5 | 0.0 | 0.0 |
| 35.00 | | 72.4 | 190.3 | | | | | 0.0 | 153.3 | 72.4 | 343.5 | 0.0 | 0.0 |
| 36.00 | | 72.6 | 189.3 | | | | | 0.0 | 153.3 | 72.6 | 342.6 | 0.0 | 0.0 |
| 37.00 | | 72.8 | 188.4 | | | | | 0.0 | 153.3 | 72.8 | 341.7 | 0.0 | 0.0 |
| 38.00 | | 73.0 | 187.5 | | | | | 0.0 | 153.3 | 73.0 | 340.7 | 0.0 | 0.0 |
| 39.00 | | 73.2 | 186.5 | | | | | 0.0 | 153.3 | 73.2 | 339.8 | 0.0 | 0.0 |
| 40.00 | | 73.3 | 185.6 | | | | | 0.0 | 153.3 | 73.3 | 338.9 | 0.0 | 0.0 |
| 41.00 | | 73.5 | 184.7 | | | | | 0.0 | 153.3 | 73.5 | 337.9 | 0.0 | 0.0 |
| 42.00 | | 72.0 | 183.7 | | | | | 0.0 | 153.3 | 72.0 | 337.0 | 0.0 | 0.0 |
| 42.96 | Bot - Section 2 | 36.9 | 174.9 | | | | | 0.0 | 146.6 | 36.9 | 321.5 | 0.0 | 0.0 |
| 43.00 | | 39.2 | 14.8 | | | | | 0.0 | 6.7 | 39.2 | 21.5 | 0.0 | 0.0 |
| 44.00 | | 75.2 | 340.7 | | | | | 0.0 | 153.3 | 75.2 | 494.0 | 0.0 | 0.0 |
| 45.00 | | 75.3 | 339.0 | | | | | 0.0 | 153.3 | 75.3 | 492.3 | 0.0 | 0.0 |
| 46.00 | | 75.3 | 337.2 | | | | | 0.0 | 153.3 | 75.3 | 490.5 | 0.0 | 0.0 |

| | | | | | | | | |
|-------------------------------|---------------------------------|--|--|--|--|--|-------------------------------|--|
| Load Case: 0.9D + 1.6W | 90 mph with No Ice (Reduced DL) | | | | | | 34 Iterations | |
| Gust Response Factor : 1.10 | | | | | | | Wind Importance Factor : 1.15 | |
| Dead Load Factor : 0.90 | | | | | | | | |
| Wind Load Factor : 1.60 | | | | | | | | |

| | | | | | | | | | | | | | |
|--------|-----------------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-----|-----|
| 47.00 | 75.4 | 335.5 | | | | | 0.0 | 153.3 | 75.4 | 488.8 | 0.0 | 0.0 | |
| 48.00 | 75.5 | 333.8 | | | | | 0.0 | 153.3 | 75.5 | 487.1 | 0.0 | 0.0 | |
| 49.00 | 39.3 | 332.0 | | | | | 0.0 | 153.3 | 39.3 | 485.3 | 0.0 | 0.0 | |
| 49.04 | Top - Section 1 | 37.8 | 13.2 | | | | 0.0 | 6.1 | 37.8 | 19.3 | 0.0 | 0.0 | |
| 50.00 | | 74.1 | 147.9 | | | | 0.0 | 147.2 | 74.1 | 295.0 | 0.0 | 0.0 | |
| 51.00 | | 75.6 | 153.2 | | | | 0.0 | 153.3 | 75.6 | 306.5 | 0.0 | 0.0 | |
| 52.00 | | 75.7 | 152.4 | | | | 0.0 | 153.3 | 75.7 | 305.7 | 0.0 | 0.0 | |
| 53.00 | | 75.7 | 151.6 | | | | 0.0 | 153.3 | 75.7 | 304.9 | 0.0 | 0.0 | |
| 54.00 | | 75.7 | 150.8 | | | | 0.0 | 153.3 | 75.7 | 304.1 | 0.0 | 0.0 | |
| 55.00 | | 75.7 | 150.0 | | | | 0.0 | 153.3 | 75.7 | 303.3 | 0.0 | 0.0 | |
| 56.00 | | 75.7 | 149.2 | | | | 0.0 | 153.3 | 75.7 | 302.5 | 0.0 | 0.0 | |
| 57.00 | | 75.7 | 148.4 | | | | 0.0 | 153.3 | 75.7 | 301.7 | 0.0 | 0.0 | |
| 58.00 | | 75.6 | 147.6 | | | | 0.0 | 153.3 | 75.6 | 300.9 | 0.0 | 0.0 | |
| 59.00 | | 75.6 | 146.8 | | | | 0.0 | 153.3 | 75.6 | 300.1 | 0.0 | 0.0 | |
| 60.00 | | 75.5 | 146.0 | | | | 0.0 | 153.3 | 75.5 | 299.3 | 0.0 | 0.0 | |
| 61.00 | | 75.5 | 145.2 | | | | 0.0 | 153.3 | 75.5 | 298.5 | 0.0 | 0.0 | |
| 62.00 | | 75.4 | 144.4 | | | | 0.0 | 153.3 | 75.4 | 297.7 | 0.0 | 0.0 | |
| 63.00 | | 75.3 | 143.6 | | | | 0.0 | 153.3 | 75.3 | 296.9 | 0.0 | 0.0 | |
| 64.00 | | 107.1 | 142.8 | | | | 0.0 | 153.3 | 107.1 | 296.1 | 0.0 | 0.0 | |
| 65.00 | | 138.8 | 142.0 | | | | 26.5 | 153.3 | 165.3 | 295.3 | 0.0 | 0.0 | |
| 66.00 | | 138.6 | 141.2 | | | | 26.5 | 153.3 | 165.2 | 294.5 | 0.0 | 0.0 | |
| 67.00 | | 138.4 | 140.4 | | | | 26.6 | 153.3 | 165.1 | 293.7 | 0.0 | 0.0 | |
| 68.00 | | 138.2 | 139.6 | | | | 26.7 | 153.3 | 164.9 | 292.9 | 0.0 | 0.0 | |
| 69.00 | | 138.0 | 138.8 | | | | 26.8 | 153.3 | 164.8 | 292.1 | 0.0 | 0.0 | |
| 70.00 | | 137.8 | 138.0 | | | | 26.9 | 153.3 | 164.7 | 291.3 | 0.0 | 0.0 | |
| 71.00 | | 137.6 | 137.2 | | | | 26.9 | 153.3 | 164.5 | 290.5 | 0.0 | 0.0 | |
| 72.00 | | 137.3 | 136.4 | | | | 27.0 | 153.3 | 164.3 | 289.7 | 0.0 | 0.0 | |
| 73.00 | | 137.1 | 135.7 | | | | 27.1 | 153.3 | 164.2 | 288.9 | 0.0 | 0.0 | |
| 74.00 | | 136.8 | 134.9 | | | | 27.2 | 153.3 | 164.0 | 288.1 | 0.0 | 0.0 | |
| 75.00 | | 136.5 | 134.1 | | | | 27.3 | 153.3 | 163.8 | 287.3 | 0.0 | 0.0 | |
| 76.00 | | 136.2 | 133.3 | | | | 27.3 | 153.3 | 163.5 | 286.5 | 0.0 | 0.0 | |
| 77.00 | | 135.9 | 132.5 | | | | 27.4 | 153.3 | 163.3 | 285.7 | 0.0 | 0.0 | |
| 78.00 | | 135.6 | 131.7 | | | | 27.5 | 153.3 | 163.1 | 284.9 | 0.0 | 0.0 | |
| 79.00 | Appertunance(s) | 135.3 | 130.9 | 3.3 | 0.0 | 0.0 | 0.5 | 27.6 | 153.3 | 166.1 | 284.7 | 0.0 | 0.0 |
| 80.00 | | 134.9 | 130.1 | | | | | 27.6 | 153.1 | 162.6 | 283.2 | 0.0 | 0.0 |
| 81.00 | | 134.6 | 129.3 | | | | | 27.7 | 153.1 | 162.3 | 282.4 | 0.0 | 0.0 |
| 82.00 | | 134.2 | 128.5 | | | | | 27.8 | 153.1 | 162.0 | 281.6 | 0.0 | 0.0 |
| 83.00 | | 133.9 | 127.7 | | | | | 27.8 | 153.1 | 161.7 | 280.8 | 0.0 | 0.0 |
| 84.00 | | 133.5 | 126.9 | | | | | 27.9 | 153.1 | 161.4 | 280.0 | 0.0 | 0.0 |
| 85.00 | | 133.1 | 126.1 | | | | | 28.0 | 153.1 | 161.1 | 279.2 | 0.0 | 0.0 |
| 86.00 | | 132.7 | 125.3 | | | | | 28.0 | 153.1 | 160.7 | 278.4 | 0.0 | 0.0 |
| 87.00 | | 101.9 | 124.5 | | | | | 28.1 | 153.1 | 130.0 | 277.6 | 0.0 | 0.0 |
| 87.54 | Bot - Section 3 | 66.6 | 66.9 | | | | | 15.2 | 82.7 | 81.8 | 149.5 | 0.0 | 0.0 |
| 88.00 | | 98.0 | 105.1 | | | | | 13.0 | 70.5 | 110.9 | 175.5 | 0.0 | 0.0 |
| 89.00 | | 133.9 | 227.3 | | | | | 28.2 | 153.1 | 162.1 | 380.5 | 0.0 | 0.0 |
| 90.00 | | 133.5 | 225.9 | | | | | 28.3 | 153.1 | 161.8 | 379.0 | 0.0 | 0.0 |
| 91.00 | | 133.0 | 224.4 | | | | | 28.4 | 153.1 | 161.4 | 377.5 | 0.0 | 0.0 |
| 92.00 | | 96.6 | 222.9 | | | | | 28.4 | 153.1 | 125.1 | 376.1 | 0.0 | 0.0 |
| 92.46 | Top - Section 2 | 66.2 | 101.3 | | | | | 13.0 | 69.9 | 79.2 | 171.2 | 0.0 | 0.0 |
| 93.00 | | 101.9 | 55.2 | | | | | 15.5 | 83.2 | 117.4 | 138.5 | 0.0 | 0.0 |
| 94.00 | | 131.7 | 101.1 | | | | | 28.6 | 153.1 | 160.2 | 254.3 | 0.0 | 0.0 |
| 95.00 | | 131.2 | 100.5 | | | | | 28.6 | 153.1 | 159.8 | 253.6 | 0.0 | 0.0 |
| 96.00 | Appertunance(s) | 130.7 | 99.8 | 565.1 | 0.0 | 0.0 | 437.9 | 28.7 | 153.1 | 724.6 | 690.9 | 0.0 | 0.0 |
| 97.00 | | 130.2 | 99.1 | | | | | 28.8 | 152.4 | 159.0 | 251.5 | 0.0 | 0.0 |
| 98.00 | | 129.8 | 98.5 | | | | | 28.8 | 152.4 | 158.6 | 250.9 | 0.0 | 0.0 |
| 99.00 | | 129.3 | 97.8 | | | | | 28.9 | 152.4 | 158.1 | 250.2 | 0.0 | 0.0 |
| 100.00 | | 128.8 | 97.1 | | | | | 28.9 | 152.4 | 157.7 | 249.5 | 0.0 | 0.0 |

| | | | | | | | | | |
|-------------------------------|--|---------------------------------|--|--|--|--|--|-------------------------------|--|
| Load Case: 0.9D + 1.6W | | 90 mph with No Ice (Reduced DL) | | | | | | 34 Iterations | |
| Gust Response Factor : 1.10 | | | | | | | | Wind Importance Factor : 1.15 | |
| Dead Load Factor : 0.90 | | | | | | | | | |
| Wind Load Factor : 1.60 | | | | | | | | | |

| | | | | | | | | | | | | | |
|--------|-----------------|-------|-------|---------|-----|---------|---------|------|-------|---------|---------|-----|-----|
| 101.00 | | 128.2 | 96.5 | | | | | 29.0 | 152.4 | 157.2 | 248.9 | 0.0 | 0.0 |
| 102.00 | | 127.7 | 95.8 | | | | | 29.1 | 152.4 | 156.8 | 248.2 | 0.0 | 0.0 |
| 103.00 | | 111.3 | 95.1 | | | | | 29.1 | 152.4 | 140.5 | 247.5 | 0.0 | 0.0 |
| 103.75 | Reinf. Top | 63.5 | 70.9 | | | | | 21.9 | 114.3 | 85.3 | 185.2 | 0.0 | 0.0 |
| 104.00 | | 79.0 | 23.6 | | | | | 7.3 | 23.1 | 86.3 | 46.6 | 0.0 | 0.0 |
| 105.00 | Appertunance(s) | 126.1 | 93.8 | 420.6 | 0.0 | 0.0 | 71.3 | 29.2 | 92.3 | 575.9 | 257.4 | 0.0 | 0.0 |
| 106.00 | | 125.6 | 93.1 | | | | | 29.3 | 87.9 | 154.9 | 181.0 | 0.0 | 0.0 |
| 107.00 | | 125.0 | 92.5 | | | | | 29.4 | 87.9 | 154.4 | 180.3 | 0.0 | 0.0 |
| 108.00 | | 124.4 | 91.8 | | | | | 29.4 | 87.9 | 153.8 | 179.7 | 0.0 | 0.0 |
| 109.00 | | 123.9 | 91.1 | | | | | 29.5 | 87.9 | 153.3 | 179.0 | 0.0 | 0.0 |
| 110.00 | | 123.3 | 90.5 | | | | | 29.5 | 87.9 | 152.8 | 178.3 | 0.0 | 0.0 |
| 111.00 | | 122.7 | 89.8 | | | | | 29.6 | 87.9 | 152.3 | 177.7 | 0.0 | 0.0 |
| 112.00 | Appertunance(s) | 94.2 | 89.1 | 1,926.9 | 0.0 | 0.0 | 1,501.2 | 29.6 | 87.9 | 2,050.7 | 1,678.2 | 0.0 | 0.0 |
| 113.00 | | 93.6 | 88.5 | | | | | 0.0 | 61.7 | 93.6 | 150.2 | 0.0 | 0.0 |
| 114.00 | | 120.9 | 87.8 | | | | | 32.1 | 42.4 | 153.0 | 130.2 | 0.0 | 0.0 |
| 115.00 | | 120.3 | 87.1 | | | | | 32.2 | 42.4 | 152.4 | 129.5 | 0.0 | 0.0 |
| 116.00 | | 119.7 | 86.5 | | | | | 32.2 | 42.4 | 151.9 | 128.8 | 0.0 | 0.0 |
| 117.00 | | 119.0 | 85.8 | | | | | 32.2 | 42.4 | 151.3 | 128.2 | 0.0 | 0.0 |
| 118.00 | | 118.4 | 85.1 | | | | | 32.3 | 42.4 | 150.7 | 127.5 | 0.0 | 0.0 |
| 119.00 | | 117.8 | 84.5 | | | | | 32.3 | 42.4 | 150.1 | 126.8 | 0.0 | 0.0 |
| 120.00 | | 117.1 | 83.8 | | | | | 32.4 | 42.4 | 149.5 | 126.2 | 0.0 | 0.0 |
| 121.00 | | 116.5 | 83.1 | | | | | 32.4 | 42.4 | 148.9 | 125.5 | 0.0 | 0.0 |
| 122.00 | | 115.8 | 82.5 | | | | | 32.4 | 42.4 | 148.3 | 124.8 | 0.0 | 0.0 |
| 123.00 | | 115.2 | 81.8 | | | | | 32.5 | 42.4 | 147.6 | 124.2 | 0.0 | 0.0 |
| 124.00 | | 114.5 | 81.1 | | | | | 32.5 | 42.4 | 147.0 | 123.5 | 0.0 | 0.0 |
| 125.00 | Appertunance(s) | 87.8 | 80.5 | 1,948.6 | 0.0 | 0.0 | 1,913.0 | 32.5 | 42.4 | 2,069.0 | 2,035.9 | 0.0 | 0.0 |
| 126.00 | | 61.3 | 79.8 | | | | | 0.0 | 36.8 | 61.3 | 116.6 | 0.0 | 0.0 |
| 127.00 | | 60.9 | 79.1 | | | | | 0.0 | 36.8 | 60.9 | 115.9 | 0.0 | 0.0 |
| 128.00 | | 60.5 | 78.5 | | | | | 0.0 | 36.8 | 60.5 | 115.2 | 0.0 | 0.0 |
| 129.00 | | 60.2 | 77.8 | | | | | 0.0 | 36.8 | 60.2 | 114.6 | 0.0 | 0.0 |
| 130.00 | | 59.8 | 77.1 | | | | | 0.0 | 36.8 | 59.8 | 113.9 | 0.0 | 0.0 |
| 131.00 | | 59.4 | 76.5 | | | | | 0.0 | 36.8 | 59.4 | 113.2 | 0.0 | 0.0 |
| 132.00 | | 33.1 | 75.8 | | | | | 0.0 | 36.8 | 33.1 | 112.6 | 0.0 | 0.0 |
| 132.12 | Bot - Section 4 | 29.8 | 9.0 | | | | | 0.0 | 4.4 | 29.8 | 13.4 | 0.0 | 0.0 |
| 133.00 | | 55.9 | 106.6 | | | | | 0.0 | 32.4 | 55.9 | 138.9 | 0.0 | 0.0 |
| 134.00 | | 59.1 | 120.1 | | | | | 0.0 | 36.8 | 59.1 | 156.8 | 0.0 | 0.0 |
| 135.00 | Appertunance(s) | 54.9 | 119.0 | 2,769.0 | 0.0 | 0.0 | 2,571.4 | 0.0 | 36.8 | 2,824.0 | 2,727.1 | 0.0 | 0.0 |
| 135.87 | Top - Section 3 | 29.3 | 102.6 | | | | | 0.0 | 29.1 | 29.3 | 131.7 | 0.0 | 0.0 |
| 136.00 | | 32.9 | 5.8 | | | | | 0.0 | 4.4 | 32.9 | 10.2 | 0.0 | 0.0 |
| 137.00 | | 57.9 | 44.4 | | | | | 0.0 | 33.4 | 57.9 | 77.8 | 0.0 | 0.0 |
| 138.00 | | 57.5 | 44.0 | | | | | 0.0 | 33.4 | 57.5 | 77.4 | 0.0 | 0.0 |
| 139.00 | | 57.1 | 43.6 | | | | | 0.0 | 33.4 | 57.1 | 77.0 | 0.0 | 0.0 |
| 140.00 | Appertunance(s) | 56.7 | 43.2 | 1,191.8 | 0.0 | 6,104.3 | 600.3 | 0.0 | 33.4 | 1,248.5 | 676.9 | 0.0 | 0.0 |
| 141.00 | | 56.3 | 42.8 | | | | | 0.0 | 28.4 | 56.3 | 71.2 | 0.0 | 0.0 |
| 142.00 | | 55.9 | 42.4 | | | | | 0.0 | 28.4 | 55.9 | 70.8 | 0.0 | 0.0 |
| 143.00 | | 55.5 | 42.0 | | | | | 0.0 | 28.4 | 55.5 | 70.4 | 0.0 | 0.0 |
| 144.00 | | 55.1 | 41.6 | | | | | 0.0 | 28.4 | 55.1 | 70.0 | 0.0 | 0.0 |
| 145.00 | | 54.7 | 41.2 | | | | | 0.0 | 28.4 | 54.7 | 69.6 | 0.0 | 0.0 |
| 146.00 | | 54.2 | 40.8 | | | | | 0.0 | 28.4 | 54.2 | 69.2 | 0.0 | 0.0 |
| 147.00 | | 53.8 | 40.4 | | | | | 0.0 | 28.4 | 53.8 | 68.8 | 0.0 | 0.0 |
| 148.00 | | 53.4 | 40.0 | | | | | 0.0 | 28.4 | 53.4 | 68.4 | 0.0 | 0.0 |
| 149.00 | | 53.0 | 39.6 | | | | | 0.0 | 28.4 | 53.0 | 68.0 | 0.0 | 0.0 |
| 150.00 | Appertunance(s) | 52.5 | 39.2 | 202.6 | 0.0 | 0.0 | 142.5 | 0.0 | 28.4 | 255.1 | 210.1 | 0.0 | 0.0 |
| 151.00 | | 52.1 | 38.8 | | | | | 0.0 | 27.7 | 52.1 | 66.5 | 0.0 | 0.0 |
| 152.00 | | 51.6 | 38.4 | | | | | 0.0 | 27.7 | 51.6 | 66.1 | 0.0 | 0.0 |
| 153.00 | | 51.2 | 38.0 | | | | | 0.0 | 27.7 | 51.2 | 65.7 | 0.0 | 0.0 |
| 154.00 | | 50.8 | 37.6 | | | | | 0.0 | 27.7 | 50.8 | 65.3 | 0.0 | 0.0 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:06 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W

90 mph with No Ice (Reduced DL)

34 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

Dead Load Factor : 0.90

Wind Load Factor : 1.60

| | | | | | | | | | | | | | |
|---------|-----------------|------|------|---------|-----|----------|---------|------|------|----------|----------|------|------|
| 155.00 | | 50.3 | 37.2 | | | | | 0.0 | 27.7 | 50.3 | 64.9 | 0.0 | 0.0 |
| 156.00 | | 49.9 | 36.8 | | | | | 0.0 | 27.7 | 49.9 | 64.5 | 0.0 | 0.0 |
| 157.00 | | 49.4 | 36.4 | | | | | 0.0 | 27.7 | 49.4 | 64.1 | 0.0 | 0.0 |
| 158.00 | | 49.0 | 36.0 | | | | | 0.0 | 27.7 | 49.0 | 63.7 | 0.0 | 0.0 |
| 159.00 | | 48.5 | 35.6 | | | | | 0.0 | 27.7 | 48.5 | 63.3 | 0.0 | 0.0 |
| 160.00 | | 68.3 | 35.2 | | | | | 0.0 | 27.7 | 68.3 | 62.9 | 0.0 | 0.0 |
| 161.00 | | 87.9 | 34.8 | | | | | 16.9 | 27.7 | 104.7 | 62.5 | 0.0 | 0.0 |
| 162.00 | | 87.0 | 34.4 | | | | | 16.9 | 27.7 | 103.9 | 62.1 | 0.0 | 0.0 |
| 163.00 | | 86.2 | 34.0 | | | | | 16.9 | 27.7 | 103.1 | 61.7 | 0.0 | 0.0 |
| 164.00 | | 85.3 | 33.6 | | | | | 16.9 | 27.7 | 102.2 | 61.3 | 0.0 | 0.0 |
| 165.00 | | 84.4 | 33.2 | | | | | 16.9 | 27.7 | 101.4 | 60.9 | 0.0 | 0.0 |
| 166.00 | | 83.6 | 32.8 | | | | | 16.9 | 27.7 | 100.5 | 60.5 | 0.0 | 0.0 |
| 167.00 | Appertunance(s) | 63.8 | 32.4 | 1,626.6 | 0.0 | 0.0 | 1,148.8 | 17.0 | 27.7 | 1,707.4 | 1,208.9 | 0.0 | 0.0 |
| 168.00 | | 44.3 | 32.0 | | | | | 0.0 | 17.9 | 44.3 | 49.9 | 0.0 | 0.0 |
| 169.00 | | 43.8 | 31.6 | | | | | 0.0 | 17.9 | 43.8 | 49.5 | 0.0 | 0.0 |
| 170.00 | | 43.4 | 31.2 | | | | | 0.0 | 17.9 | 43.4 | 49.1 | 0.0 | 0.0 |
| 171.00 | | 42.9 | 30.8 | | | | | 0.0 | 17.9 | 42.9 | 48.7 | 0.0 | 0.0 |
| 172.00 | | 42.4 | 30.4 | | | | | 0.0 | 17.9 | 42.4 | 48.3 | 0.0 | 0.0 |
| 173.00 | | 41.9 | 30.0 | | | | | 0.0 | 17.9 | 41.9 | 47.9 | 0.0 | 0.0 |
| 174.00 | | 41.4 | 29.6 | | | | | 0.0 | 17.9 | 41.4 | 47.5 | 0.0 | 0.0 |
| 175.00 | | 40.9 | 29.2 | | | | | 0.0 | 17.9 | 40.9 | 47.1 | 0.0 | 0.0 |
| 176.00 | | 40.4 | 28.8 | | | | | 0.0 | 17.9 | 40.4 | 46.7 | 0.0 | 0.0 |
| 177.00 | | 39.9 | 28.4 | | | | | 0.0 | 17.9 | 39.9 | 46.3 | 0.0 | 0.0 |
| 178.00 | | 39.5 | 28.0 | | | | | 0.0 | 17.9 | 39.5 | 45.9 | 0.0 | 0.0 |
| 179.00 | | 39.0 | 27.6 | | | | | 0.0 | 17.9 | 39.0 | 45.5 | 0.0 | 0.0 |
| 180.00 | Appertunance(s) | 19.4 | 27.2 | 3,727.0 | 0.0 | 15,021.1 | 2,269.2 | 0.0 | 17.9 | 3,746.4 | 2,314.3 | 0.0 | 0.0 |
| Totals: | | | | | | | | | | 31,983.1 | 52,134.6 | 0.00 | 0.00 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:06 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W

90 mph with No Ice (Reduced DL)

34 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

Dead Load Factor : 0.90

Wind Load Factor : 1.60

Calculated Forces

| Seg | Pu | Vu | Tu | Mu | Mu | Resultant | phi | phi | phi | phi | Total | Rotation | Ratio |
|-------|--------|--------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----------|---------|----------|-------|
| Elev | FY (-) | FX (-) | MY | MZ | MX | Moment | Pn | Vn | Tn | Mn | Deflect | (deg) | |
| (ft) | (kips) | (kips) | (ft-kips) | (ft-kips) | (ft-kips) | (ft-kips) | (kips) | (kips) | (ft-kips) | (ft-kips) | (in) | | |
| 0.00 | -52.12 | -31.95 | 0.00 | -3,769.71 | 0.00 | 3,769.71 | 5,129.98 | 2,564.99 | 11,021.5 | 5,518.96 | 0.00 | 0.00 | 0.513 |
| 1.00 | -51.73 | -31.90 | 0.00 | -3,737.75 | 0.00 | 3,737.75 | 5,115.23 | 2,557.61 | 10,943.3 | 5,479.82 | 0.00 | -0.03 | 0.512 |
| 2.00 | -51.34 | -31.85 | 0.00 | -3,705.85 | 0.00 | 3,705.85 | 5,100.42 | 2,550.21 | 10,865.3 | 5,440.75 | 0.01 | -0.06 | 0.510 |
| 3.00 | -50.95 | -31.80 | 0.00 | -3,674.00 | 0.00 | 3,674.00 | 5,085.56 | 2,542.78 | 10,787.4 | 5,401.75 | 0.03 | -0.09 | 0.509 |
| 4.00 | -50.56 | -31.75 | 0.00 | -3,642.21 | 0.00 | 3,642.21 | 5,070.64 | 2,535.32 | 10,709.7 | 5,362.83 | 0.05 | -0.13 | 0.507 |
| 5.00 | -50.17 | -31.69 | 0.00 | -3,610.46 | 0.00 | 3,610.46 | 5,055.67 | 2,527.83 | 10,632.1 | 5,323.99 | 0.08 | -0.16 | 0.506 |
| 6.00 | -49.78 | -31.64 | 0.00 | -3,578.77 | 0.00 | 3,578.77 | 5,040.63 | 2,520.32 | 10,554.7 | 5,285.22 | 0.12 | -0.19 | 0.505 |
| 7.00 | -49.39 | -31.59 | 0.00 | -3,547.13 | 0.00 | 3,547.13 | 5,025.54 | 2,512.77 | 10,477.4 | 5,246.53 | 0.16 | -0.22 | 0.503 |
| 8.00 | -49.01 | -31.54 | 0.00 | -3,515.54 | 0.00 | 3,515.54 | 5,010.40 | 2,505.20 | 10,400.3 | 5,207.92 | 0.21 | -0.25 | 0.501 |
| 9.00 | -48.62 | -31.48 | 0.00 | -3,484.01 | 0.00 | 3,484.01 | 4,995.19 | 2,497.60 | 10,323.4 | 5,169.39 | 0.27 | -0.29 | 0.500 |
| 10.00 | -48.24 | -31.43 | 0.00 | -3,452.52 | 0.00 | 3,452.52 | 4,979.93 | 2,489.97 | 10,246.6 | 5,130.93 | 0.34 | -0.32 | 0.498 |
| 11.00 | -47.85 | -31.38 | 0.00 | -3,421.09 | 0.00 | 3,421.09 | 4,964.61 | 2,482.31 | 10,170.0 | 5,092.56 | 0.41 | -0.35 | 0.497 |
| 12.00 | -47.47 | -31.33 | 0.00 | -3,389.71 | 0.00 | 3,389.71 | 4,949.24 | 2,474.62 | 10,093.5 | 5,054.27 | 0.48 | -0.38 | 0.495 |
| 13.00 | -47.09 | -31.27 | 0.00 | -3,358.39 | 0.00 | 3,358.39 | 4,933.81 | 2,466.90 | 10,017.2 | 5,016.06 | 0.57 | -0.42 | 0.494 |
| 14.00 | -46.71 | -31.22 | 0.00 | -3,327.12 | 0.00 | 3,327.12 | 4,918.32 | 2,459.16 | 9,941.08 | 4,977.93 | 0.66 | -0.45 | 0.492 |
| 15.00 | -46.33 | -31.17 | 0.00 | -3,295.90 | 0.00 | 3,295.90 | 4,902.77 | 2,451.39 | 9,865.10 | 4,939.88 | 0.76 | -0.48 | 0.490 |
| 16.00 | -45.95 | -31.12 | 0.00 | -3,264.73 | 0.00 | 3,264.73 | 4,887.17 | 2,443.58 | 9,789.30 | 4,901.92 | 0.86 | -0.51 | 0.489 |
| 17.00 | -45.57 | -31.06 | 0.00 | -3,233.61 | 0.00 | 3,233.61 | 4,871.51 | 2,435.75 | 9,713.66 | 4,864.05 | 0.97 | -0.55 | 0.487 |
| 18.00 | -45.20 | -31.01 | 0.00 | -3,202.55 | 0.00 | 3,202.55 | 4,855.79 | 2,427.89 | 9,638.20 | 4,826.26 | 1.09 | -0.58 | 0.485 |
| 19.00 | -44.82 | -30.96 | 0.00 | -3,171.54 | 0.00 | 3,171.54 | 4,840.02 | 2,420.01 | 9,562.90 | 4,788.56 | 1.21 | -0.61 | 0.484 |
| 20.00 | -44.45 | -30.91 | 0.00 | -3,140.58 | 0.00 | 3,140.58 | 4,824.18 | 2,412.09 | 9,487.79 | 4,750.94 | 1.35 | -0.64 | 0.482 |
| 21.00 | -44.07 | -30.85 | 0.00 | -3,109.67 | 0.00 | 3,109.67 | 4,808.29 | 2,404.15 | 9,412.84 | 4,713.42 | 1.49 | -0.68 | 0.480 |
| 22.00 | -43.70 | -30.80 | 0.00 | -3,078.82 | 0.00 | 3,078.82 | 4,792.35 | 2,396.17 | 9,338.08 | 4,675.98 | 1.63 | -0.71 | 0.478 |
| 23.00 | -43.33 | -30.75 | 0.00 | -3,048.02 | 0.00 | 3,048.02 | 4,776.35 | 2,388.17 | 9,263.49 | 4,638.63 | 1.78 | -0.74 | 0.477 |
| 24.00 | -42.96 | -30.70 | 0.00 | -3,017.27 | 0.00 | 3,017.27 | 4,760.29 | 2,380.14 | 9,189.09 | 4,601.37 | 1.94 | -0.78 | 0.475 |
| 25.00 | -42.59 | -30.64 | 0.00 | -2,986.58 | 0.00 | 2,986.58 | 4,744.17 | 2,372.08 | 9,114.87 | 4,564.21 | 2.11 | -0.81 | 0.473 |
| 26.00 | -42.22 | -30.59 | 0.00 | -2,955.93 | 0.00 | 2,955.93 | 4,728.00 | 2,364.00 | 9,040.83 | 4,527.13 | 2.28 | -0.84 | 0.471 |
| 27.00 | -41.85 | -30.54 | 0.00 | -2,925.34 | 0.00 | 2,925.34 | 4,711.76 | 2,355.88 | 8,966.98 | 4,490.15 | 2.46 | -0.88 | 0.469 |
| 28.00 | -41.48 | -30.49 | 0.00 | -2,894.81 | 0.00 | 2,894.81 | 4,695.48 | 2,347.74 | 8,893.31 | 4,453.26 | 2.65 | -0.91 | 0.467 |
| 29.00 | -41.12 | -30.43 | 0.00 | -2,864.32 | 0.00 | 2,864.32 | 4,679.13 | 2,339.57 | 8,819.83 | 4,416.47 | 2.85 | -0.94 | 0.466 |
| 30.00 | -40.74 | -30.35 | 0.00 | -2,833.89 | 0.00 | 2,833.89 | 4,662.73 | 2,331.36 | 8,746.54 | 4,379.77 | 3.05 | -0.98 | 0.464 |
| 31.00 | -40.38 | -30.30 | 0.00 | -2,803.54 | 0.00 | 2,803.54 | 4,646.27 | 2,323.14 | 8,673.45 | 4,343.17 | 3.26 | -1.01 | 0.462 |
| 32.00 | -40.02 | -30.24 | 0.00 | -2,773.24 | 0.00 | 2,773.24 | 4,629.75 | 2,314.88 | 8,600.55 | 4,306.67 | 3.47 | -1.05 | 0.460 |
| 33.00 | -39.65 | -30.19 | 0.00 | -2,743.00 | 0.00 | 2,743.00 | 4,613.18 | 2,306.59 | 8,527.84 | 4,270.26 | 3.70 | -1.08 | 0.458 |
| 34.00 | -39.29 | -30.13 | 0.00 | -2,712.81 | 0.00 | 2,712.81 | 4,596.55 | 2,298.27 | 8,455.33 | 4,233.95 | 3.93 | -1.11 | 0.456 |
| 35.00 | -38.93 | -30.08 | 0.00 | -2,682.67 | 0.00 | 2,682.67 | 4,579.86 | 2,289.93 | 8,383.01 | 4,197.74 | 4.16 | -1.15 | 0.454 |
| 36.00 | -38.57 | -30.02 | 0.00 | -2,652.60 | 0.00 | 2,652.60 | 4,563.12 | 2,281.56 | 8,310.90 | 4,161.63 | 4.41 | -1.18 | 0.452 |
| 37.00 | -38.22 | -29.96 | 0.00 | -2,622.58 | 0.00 | 2,622.58 | 4,546.32 | 2,273.16 | 8,238.99 | 4,125.62 | 4.66 | -1.22 | 0.450 |
| 38.00 | -37.86 | -29.91 | 0.00 | -2,592.61 | 0.00 | 2,592.61 | 4,529.46 | 2,264.73 | 8,167.27 | 4,089.71 | 4.92 | -1.25 | 0.447 |
| 39.00 | -37.50 | -29.85 | 0.00 | -2,562.71 | 0.00 | 2,562.71 | 4,512.54 | 2,256.27 | 8,095.77 | 4,053.90 | 5.18 | -1.28 | 0.445 |
| 40.00 | -37.15 | -29.79 | 0.00 | -2,532.86 | 0.00 | 2,532.86 | 4,495.22 | 2,245.61 | 8,016.71 | 4,014.31 | 5.46 | -1.32 | 0.444 |
| 41.00 | -36.79 | -29.73 | 0.00 | -2,503.07 | 0.00 | 2,503.07 | 4,468.58 | 2,234.29 | 7,935.69 | 3,973.74 | 5.74 | -1.35 | 0.442 |
| 42.00 | -36.44 | -29.67 | 0.00 | -2,473.34 | 0.00 | 2,473.34 | 4,445.95 | 2,222.97 | 7,855.09 | 3,933.38 | 6.02 | -1.39 | 0.440 |
| 42.96 | -36.11 | -29.64 | 0.00 | -2,444.96 | 0.00 | 2,444.96 | 4,424.29 | 2,212.15 | 7,778.37 | 3,894.97 | 6.31 | -1.42 | 0.439 |
| 43.00 | -36.08 | -29.61 | 0.00 | -2,443.67 | 0.00 | 2,443.67 | 4,423.31 | 2,211.65 | 7,774.90 | 3,893.23 | 6.32 | -1.42 | 0.435 |
| 44.00 | -35.57 | -29.54 | 0.00 | -2,414.06 | 0.00 | 2,414.06 | 4,400.67 | 2,200.33 | 7,695.11 | 3,853.28 | 6.62 | -1.46 | 0.433 |
| 45.00 | -35.07 | -29.48 | 0.00 | -2,384.52 | 0.00 | 2,384.52 | 4,378.03 | 2,189.01 | 7,615.75 | 3,813.53 | 6.93 | -1.49 | 0.431 |
| 46.00 | -34.56 | -29.41 | 0.00 | -2,355.05 | 0.00 | 2,355.05 | 4,355.39 | 2,177.70 | 7,536.79 | 3,773.99 | 7.25 | -1.52 | 0.429 |
| 47.00 | -34.06 | -29.34 | 0.00 | -2,325.64 | 0.00 | 2,325.64 | 4,332.75 | 2,166.38 | 7,458.24 | 3,734.66 | 7.57 | -1.56 | 0.427 |
| 48.00 | -33.55 | -29.27 | 0.00 | -2,296.30 | 0.00 | 2,296.30 | 4,310.11 | 2,155.06 | 7,380.10 | 3,695.54 | 7.90 | -1.59 | 0.425 |
| 49.00 | -33.06 | -29.23 | 0.00 | -2,267.03 | 0.00 | 2,267.03 | 4,287.47 | 2,143.74 | 7,302.38 | 3,656.62 | 8.24 | -1.63 | 0.423 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:06 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W

90 mph with No Ice (Reduced DL)

34 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

Dead Load Factor : 0.90

Wind Load Factor : 1.60

| | | | | | | | | | | | | | |
|--------|--------|--------|------|-----------|------|----------|----------|----------|----------|----------|-------|-------|-------|
| 49.04 | -33.03 | -29.20 | 0.00 | -2,265.86 | 0.00 | 2,265.86 | 3,622.99 | 1,811.50 | 6,300.42 | 3,154.89 | 8.25 | -1.63 | 0.475 |
| 50.00 | -32.72 | -29.14 | 0.00 | -2,237.83 | 0.00 | 2,237.83 | 3,610.23 | 1,805.12 | 6,246.74 | 3,128.01 | 8.58 | -1.66 | 0.472 |
| 51.00 | -32.40 | -29.07 | 0.00 | -2,208.69 | 0.00 | 2,208.69 | 3,596.89 | 1,798.44 | 6,190.96 | 3,100.08 | 8.93 | -1.70 | 0.469 |
| 52.00 | -32.08 | -29.01 | 0.00 | -2,179.62 | 0.00 | 2,179.62 | 3,583.49 | 1,791.74 | 6,135.33 | 3,072.23 | 9.29 | -1.73 | 0.466 |
| 53.00 | -31.76 | -28.94 | 0.00 | -2,150.61 | 0.00 | 2,150.61 | 3,570.03 | 1,785.02 | 6,079.85 | 3,044.45 | 9.66 | -1.77 | 0.463 |
| 54.00 | -31.44 | -28.88 | 0.00 | -2,121.67 | 0.00 | 2,121.67 | 3,556.52 | 1,778.26 | 6,024.52 | 3,016.74 | 10.04 | -1.81 | 0.460 |
| 55.00 | -31.12 | -28.81 | 0.00 | -2,092.79 | 0.00 | 2,092.79 | 3,542.95 | 1,771.47 | 5,969.33 | 2,989.10 | 10.42 | -1.84 | 0.457 |
| 56.00 | -30.80 | -28.75 | 0.00 | -2,063.98 | 0.00 | 2,063.98 | 3,529.32 | 1,764.66 | 5,914.30 | 2,961.55 | 10.81 | -1.88 | 0.453 |
| 57.00 | -30.48 | -28.68 | 0.00 | -2,035.23 | 0.00 | 2,035.23 | 3,515.63 | 1,757.82 | 5,859.42 | 2,934.06 | 11.21 | -1.92 | 0.450 |
| 58.00 | -30.17 | -28.62 | 0.00 | -2,006.55 | 0.00 | 2,006.55 | 3,501.89 | 1,750.94 | 5,804.69 | 2,906.66 | 11.61 | -1.95 | 0.447 |
| 59.00 | -29.85 | -28.55 | 0.00 | -1,977.93 | 0.00 | 1,977.93 | 3,488.09 | 1,744.04 | 5,750.12 | 2,879.33 | 12.03 | -1.99 | 0.443 |
| 60.00 | -29.54 | -28.48 | 0.00 | -1,949.39 | 0.00 | 1,949.39 | 3,474.23 | 1,737.12 | 5,695.71 | 2,852.09 | 12.45 | -2.03 | 0.440 |
| 61.00 | -29.22 | -28.41 | 0.00 | -1,920.90 | 0.00 | 1,920.90 | 3,460.32 | 1,730.16 | 5,641.45 | 2,824.92 | 12.87 | -2.06 | 0.437 |
| 62.00 | -28.91 | -28.35 | 0.00 | -1,892.49 | 0.00 | 1,892.49 | 3,446.35 | 1,723.17 | 5,587.36 | 2,797.83 | 13.31 | -2.10 | 0.433 |
| 63.00 | -28.60 | -28.28 | 0.00 | -1,864.15 | 0.00 | 1,864.15 | 3,432.32 | 1,716.16 | 5,533.43 | 2,770.83 | 13.75 | -2.14 | 0.430 |
| 64.00 | -28.29 | -28.18 | 0.00 | -1,835.87 | 0.00 | 1,835.87 | 3,418.23 | 1,709.12 | 5,479.66 | 2,743.90 | 14.21 | -2.17 | 0.426 |
| 65.00 | -27.98 | -28.02 | 0.00 | -1,807.69 | 0.00 | 1,807.69 | 3,404.09 | 1,702.05 | 5,426.05 | 2,717.06 | 14.67 | -2.21 | 0.423 |
| 66.00 | -27.68 | -27.86 | 0.00 | -1,779.67 | 0.00 | 1,779.67 | 3,389.89 | 1,694.95 | 5,372.62 | 2,690.30 | 15.13 | -2.24 | 0.419 |
| 67.00 | -27.37 | -27.70 | 0.00 | -1,751.81 | 0.00 | 1,751.81 | 3,375.64 | 1,687.82 | 5,319.35 | 2,663.63 | 15.61 | -2.28 | 0.416 |
| 68.00 | -27.07 | -27.54 | 0.00 | -1,724.11 | 0.00 | 1,724.11 | 3,361.32 | 1,680.66 | 5,266.25 | 2,637.04 | 16.09 | -2.32 | 0.412 |
| 69.00 | -26.77 | -27.38 | 0.00 | -1,696.57 | 0.00 | 1,696.57 | 3,346.95 | 1,673.48 | 5,213.32 | 2,610.53 | 16.58 | -2.35 | 0.408 |
| 70.00 | -26.46 | -27.22 | 0.00 | -1,669.19 | 0.00 | 1,669.19 | 3,332.53 | 1,666.26 | 5,160.56 | 2,584.12 | 17.07 | -2.39 | 0.405 |
| 71.00 | -26.16 | -27.06 | 0.00 | -1,641.97 | 0.00 | 1,641.97 | 3,318.04 | 1,659.02 | 5,107.98 | 2,557.79 | 17.58 | -2.42 | 0.401 |
| 72.00 | -25.87 | -26.90 | 0.00 | -1,614.91 | 0.00 | 1,614.91 | 3,300.52 | 1,650.26 | 5,051.01 | 2,529.26 | 18.09 | -2.46 | 0.398 |
| 73.00 | -25.57 | -26.74 | 0.00 | -1,588.01 | 0.00 | 1,588.01 | 3,281.11 | 1,640.56 | 4,991.50 | 2,499.46 | 18.61 | -2.50 | 0.395 |
| 74.00 | -25.27 | -26.58 | 0.00 | -1,561.27 | 0.00 | 1,561.27 | 3,261.71 | 1,630.85 | 4,932.34 | 2,469.84 | 19.14 | -2.53 | 0.391 |
| 75.00 | -24.97 | -26.42 | 0.00 | -1,534.69 | 0.00 | 1,534.69 | 3,242.30 | 1,621.15 | 4,873.54 | 2,440.39 | 19.67 | -2.57 | 0.388 |
| 76.00 | -24.68 | -26.26 | 0.00 | -1,508.28 | 0.00 | 1,508.28 | 3,222.90 | 1,611.45 | 4,815.08 | 2,411.12 | 20.21 | -2.60 | 0.385 |
| 77.00 | -24.38 | -26.10 | 0.00 | -1,482.02 | 0.00 | 1,482.02 | 3,203.49 | 1,601.75 | 4,756.98 | 2,382.03 | 20.76 | -2.64 | 0.382 |
| 78.00 | -24.09 | -25.94 | 0.00 | -1,455.92 | 0.00 | 1,455.92 | 3,184.09 | 1,592.04 | 4,699.23 | 2,353.11 | 21.32 | -2.67 | 0.378 |
| 79.00 | -23.80 | -25.77 | 0.00 | -1,429.99 | 0.00 | 1,429.99 | 3,164.68 | 1,582.34 | 4,641.84 | 2,324.37 | 21.88 | -2.71 | 0.375 |
| 80.00 | -23.51 | -25.61 | 0.00 | -1,404.22 | 0.00 | 1,404.22 | 3,145.28 | 1,572.64 | 4,584.79 | 2,295.80 | 22.45 | -2.74 | 0.372 |
| 81.00 | -23.22 | -25.45 | 0.00 | -1,378.61 | 0.00 | 1,378.61 | 3,125.87 | 1,562.94 | 4,528.10 | 2,267.42 | 23.03 | -2.78 | 0.368 |
| 82.00 | -22.93 | -25.29 | 0.00 | -1,353.16 | 0.00 | 1,353.16 | 3,106.47 | 1,553.24 | 4,471.77 | 2,239.21 | 23.62 | -2.81 | 0.365 |
| 83.00 | -22.64 | -25.12 | 0.00 | -1,327.88 | 0.00 | 1,327.88 | 3,087.07 | 1,543.53 | 4,415.78 | 2,211.17 | 24.21 | -2.85 | 0.361 |
| 84.00 | -22.36 | -24.96 | 0.00 | -1,302.75 | 0.00 | 1,302.75 | 3,067.66 | 1,533.83 | 4,360.15 | 2,183.32 | 24.81 | -2.88 | 0.358 |
| 85.00 | -22.07 | -24.80 | 0.00 | -1,277.79 | 0.00 | 1,277.79 | 3,048.26 | 1,524.13 | 4,304.87 | 2,155.63 | 25.42 | -2.92 | 0.354 |
| 86.00 | -21.79 | -24.64 | 0.00 | -1,252.99 | 0.00 | 1,252.99 | 3,028.85 | 1,514.43 | 4,249.94 | 2,128.13 | 26.03 | -2.95 | 0.351 |
| 87.00 | -21.50 | -24.50 | 0.00 | -1,228.35 | 0.00 | 1,228.35 | 3,009.45 | 1,504.72 | 4,195.37 | 2,100.80 | 26.66 | -2.99 | 0.347 |
| 87.54 | -21.35 | -24.42 | 0.00 | -1,215.12 | 0.00 | 1,215.12 | 2,998.97 | 1,499.48 | 4,166.05 | 2,086.12 | 26.99 | -3.00 | 0.345 |
| 88.00 | -21.17 | -24.31 | 0.00 | -1,203.89 | 0.00 | 1,203.89 | 2,990.04 | 1,495.02 | 4,141.15 | 2,073.65 | 27.28 | -3.02 | 0.339 |
| 89.00 | -20.79 | -24.14 | 0.00 | -1,179.58 | 0.00 | 1,179.58 | 2,970.64 | 1,485.32 | 4,087.28 | 2,046.68 | 27.92 | -3.05 | 0.335 |
| 90.00 | -20.40 | -23.97 | 0.00 | -1,155.44 | 0.00 | 1,155.44 | 2,951.23 | 1,475.62 | 4,033.76 | 2,019.88 | 28.56 | -3.09 | 0.331 |
| 91.00 | -20.02 | -23.80 | 0.00 | -1,131.46 | 0.00 | 1,131.46 | 2,931.83 | 1,465.91 | 3,980.60 | 1,993.26 | 29.21 | -3.12 | 0.328 |
| 92.00 | -19.64 | -23.66 | 0.00 | -1,107.66 | 0.00 | 1,107.66 | 2,912.42 | 1,456.21 | 3,927.79 | 1,966.81 | 29.87 | -3.15 | 0.324 |
| 92.46 | -19.47 | -23.58 | 0.00 | -1,096.86 | 0.00 | 1,096.86 | 2,424.49 | 1,212.24 | 3,334.85 | 1,669.90 | 30.17 | -3.17 | 0.357 |
| 93.00 | -19.33 | -23.46 | 0.00 | -1,084.05 | 0.00 | 1,084.05 | 2,418.22 | 1,209.11 | 3,314.29 | 1,659.61 | 30.54 | -3.19 | 0.354 |
| 94.00 | -19.07 | -23.30 | 0.00 | -1,060.58 | 0.00 | 1,060.58 | 2,406.65 | 1,203.32 | 3,276.56 | 1,640.72 | 31.21 | -3.22 | 0.349 |
| 95.00 | -18.81 | -23.14 | 0.00 | -1,037.28 | 0.00 | 1,037.28 | 2,395.02 | 1,197.51 | 3,238.97 | 1,621.89 | 31.89 | -3.26 | 0.344 |
| 96.00 | -18.15 | -22.39 | 0.00 | -1,014.14 | 0.00 | 1,014.14 | 2,383.33 | 1,191.67 | 3,201.50 | 1,603.13 | 32.57 | -3.29 | 0.339 |
| 97.00 | -17.89 | -22.23 | 0.00 | -991.75 | 0.00 | 991.75 | 2,371.59 | 1,185.79 | 3,164.18 | 1,584.44 | 33.26 | -3.33 | 0.334 |
| 98.00 | -17.64 | -22.06 | 0.00 | -969.53 | 0.00 | 969.53 | 2,359.79 | 1,179.89 | 3,126.99 | 1,565.82 | 33.96 | -3.36 | 0.329 |
| 99.00 | -17.38 | -21.90 | 0.00 | -947.47 | 0.00 | 947.47 | 2,347.93 | 1,173.97 | 3,089.94 | 1,547.27 | 34.67 | -3.39 | 0.324 |
| 100.00 | -17.13 | -21.74 | 0.00 | -925.57 | 0.00 | 925.57 | 2,336.02 | 1,168.01 | 3,053.03 | 1,528.79 | 35.39 | -3.43 | 0.319 |
| 101.00 | -16.88 | -21.58 | 0.00 | -903.83 | 0.00 | 903.83 | 2,324.05 | 1,162.02 | 3,016.27 | 1,510.38 | 36.11 | -3.46 | 0.314 |
| 102.00 | -16.63 | -21.41 | 0.00 | -882.25 | 0.00 | 882.25 | 2,312.02 | 1,156.01 | 2,979.65 | 1,492.04 | 36.84 | -3.49 | 0.309 |
| 103.00 | -16.38 | -21.27 | 0.00 | -860.84 | 0.00 | 860.84 | 2,299.80 | 1,149.90 | 2,943.01 | 1,473.69 | 37.57 | -3.53 | 0.304 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:06 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W

90 mph with No Ice (Reduced DL)

34 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

Dead Load Factor : 0.90

Wind Load Factor : 1.60

| | | | | | | | | | | | | | |
|--------|--------|--------|------|---------|------|--------|----------|----------|----------|----------|-------|-------|-------|
| 103.75 | -16.19 | -21.17 | 0.00 | -844.89 | 0.00 | 844.89 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 38.13 | -3.55 | 0.300 |
| 103.75 | -16.19 | -21.17 | 0.00 | -844.89 | 0.00 | 844.89 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 38.13 | -3.55 | 0.587 |
| 104.00 | -16.14 | -21.10 | 0.00 | -839.60 | 0.00 | 839.60 | 2,283.63 | 1,141.82 | 2,901.57 | 1,452.94 | 38.31 | -3.56 | 0.585 |
| 105.00 | -15.90 | -20.52 | 0.00 | -818.50 | 0.00 | 818.50 | 2,267.46 | 1,133.73 | 2,860.42 | 1,432.33 | 39.06 | -3.62 | 0.579 |
| 106.00 | -15.70 | -20.37 | 0.00 | -797.98 | 0.00 | 797.98 | 2,251.29 | 1,125.65 | 2,819.56 | 1,411.88 | 39.83 | -3.68 | 0.572 |
| 107.00 | -15.51 | -20.22 | 0.00 | -777.60 | 0.00 | 777.60 | 2,235.12 | 1,117.56 | 2,779.00 | 1,391.56 | 40.61 | -3.75 | 0.566 |
| 108.00 | -15.32 | -20.08 | 0.00 | -757.38 | 0.00 | 757.38 | 2,218.95 | 1,109.48 | 2,738.73 | 1,371.40 | 41.40 | -3.81 | 0.560 |
| 109.00 | -15.13 | -19.93 | 0.00 | -737.30 | 0.00 | 737.30 | 2,202.78 | 1,101.39 | 2,698.75 | 1,351.38 | 42.20 | -3.87 | 0.553 |
| 110.00 | -14.94 | -19.78 | 0.00 | -717.38 | 0.00 | 717.38 | 2,186.61 | 1,093.30 | 2,659.07 | 1,331.51 | 43.02 | -3.93 | 0.546 |
| 111.00 | -14.75 | -19.63 | 0.00 | -697.60 | 0.00 | 697.60 | 2,170.44 | 1,085.22 | 2,619.69 | 1,311.79 | 43.85 | -3.99 | 0.539 |
| 112.00 | -13.21 | -17.48 | 0.00 | -677.97 | 0.00 | 677.97 | 2,154.27 | 1,077.13 | 2,580.59 | 1,292.21 | 44.69 | -4.06 | 0.531 |
| 113.00 | -13.04 | -17.39 | 0.00 | -660.49 | 0.00 | 660.49 | 2,138.10 | 1,069.05 | 2,541.79 | 1,272.79 | 45.55 | -4.12 | 0.525 |
| 114.00 | -12.91 | -17.24 | 0.00 | -643.10 | 0.00 | 643.10 | 2,121.93 | 1,060.96 | 2,503.29 | 1,253.50 | 46.42 | -4.18 | 0.519 |
| 115.00 | -12.77 | -17.09 | 0.00 | -625.85 | 0.00 | 625.85 | 2,105.76 | 1,052.88 | 2,465.08 | 1,234.37 | 47.30 | -4.24 | 0.513 |
| 116.00 | -12.64 | -16.95 | 0.00 | -608.76 | 0.00 | 608.76 | 2,089.59 | 1,044.79 | 2,427.16 | 1,215.38 | 48.19 | -4.30 | 0.507 |
| 117.00 | -12.50 | -16.80 | 0.00 | -591.81 | 0.00 | 591.81 | 2,073.42 | 1,036.71 | 2,389.54 | 1,196.54 | 49.10 | -4.36 | 0.501 |
| 118.00 | -12.37 | -16.65 | 0.00 | -575.02 | 0.00 | 575.02 | 2,057.25 | 1,028.62 | 2,352.21 | 1,177.85 | 50.02 | -4.42 | 0.494 |
| 119.00 | -12.24 | -16.51 | 0.00 | -558.36 | 0.00 | 558.36 | 2,041.07 | 1,020.54 | 2,315.17 | 1,159.31 | 50.95 | -4.48 | 0.488 |
| 120.00 | -12.11 | -16.36 | 0.00 | -541.86 | 0.00 | 541.86 | 2,024.90 | 1,012.45 | 2,278.43 | 1,140.91 | 51.89 | -4.53 | 0.481 |
| 121.00 | -11.98 | -16.21 | 0.00 | -525.50 | 0.00 | 525.50 | 2,008.73 | 1,004.37 | 2,241.98 | 1,122.66 | 52.85 | -4.59 | 0.474 |
| 122.00 | -11.85 | -16.07 | 0.00 | -509.29 | 0.00 | 509.29 | 1,992.56 | 996.28 | 2,205.83 | 1,104.55 | 53.81 | -4.65 | 0.467 |
| 123.00 | -11.72 | -15.92 | 0.00 | -493.22 | 0.00 | 493.22 | 1,976.39 | 988.20 | 2,169.97 | 1,086.60 | 54.79 | -4.71 | 0.460 |
| 124.00 | -11.60 | -15.78 | 0.00 | -477.30 | 0.00 | 477.30 | 1,960.22 | 980.11 | 2,134.40 | 1,068.79 | 55.78 | -4.77 | 0.453 |
| 125.00 | -9.73 | -13.55 | 0.00 | -461.53 | 0.00 | 461.53 | 1,944.05 | 972.03 | 2,099.13 | 1,051.12 | 56.79 | -4.82 | 0.444 |
| 126.00 | -9.60 | -13.49 | 0.00 | -447.97 | 0.00 | 447.97 | 1,927.88 | 963.94 | 2,064.15 | 1,033.61 | 57.80 | -4.88 | 0.439 |
| 127.00 | -9.48 | -13.43 | 0.00 | -434.48 | 0.00 | 434.48 | 1,911.71 | 955.86 | 2,029.46 | 1,016.24 | 58.83 | -4.93 | 0.433 |
| 128.00 | -9.36 | -13.37 | 0.00 | -421.05 | 0.00 | 421.05 | 1,895.54 | 947.77 | 1,995.07 | 999.02 | 59.87 | -4.99 | 0.427 |
| 129.00 | -9.23 | -13.31 | 0.00 | -407.68 | 0.00 | 407.68 | 1,879.37 | 939.68 | 1,960.98 | 981.95 | 60.92 | -5.05 | 0.420 |
| 130.00 | -9.11 | -13.25 | 0.00 | -394.37 | 0.00 | 394.37 | 1,863.20 | 931.60 | 1,927.17 | 965.02 | 61.98 | -5.10 | 0.414 |
| 131.00 | -8.99 | -13.19 | 0.00 | -381.13 | 0.00 | 381.13 | 1,847.03 | 923.51 | 1,893.66 | 948.24 | 63.05 | -5.15 | 0.407 |
| 132.00 | -8.88 | -13.15 | 0.00 | -367.94 | 0.00 | 367.94 | 1,830.86 | 915.43 | 1,860.45 | 931.61 | 64.14 | -5.21 | 0.400 |
| 132.12 | -8.86 | -13.12 | 0.00 | -366.36 | 0.00 | 366.36 | 1,828.92 | 914.46 | 1,856.49 | 929.63 | 64.27 | -5.22 | 0.399 |
| 133.00 | -8.72 | -13.06 | 0.00 | -354.81 | 0.00 | 354.81 | 1,814.69 | 907.34 | 1,827.53 | 915.12 | 65.23 | -5.26 | 0.393 |
| 134.00 | -8.55 | -13.00 | 0.00 | -341.75 | 0.00 | 341.75 | 1,798.52 | 899.26 | 1,794.90 | 898.78 | 66.34 | -5.32 | 0.385 |
| 135.00 | -6.09 | -9.93 | 0.00 | -328.76 | 0.00 | 328.76 | 1,782.35 | 891.17 | 1,762.57 | 882.59 | 67.46 | -5.37 | 0.376 |
| 135.87 | -5.96 | -9.90 | 0.00 | -320.12 | 0.00 | 320.12 | 999.39 | 499.70 | 1,006.16 | 503.83 | 68.44 | -5.41 | 0.642 |
| 136.00 | -5.95 | -9.87 | 0.00 | -318.83 | 0.00 | 318.83 | 998.64 | 499.32 | 1,004.22 | 502.86 | 68.59 | -5.42 | 0.640 |
| 137.00 | -5.86 | -9.81 | 0.00 | -308.96 | 0.00 | 308.96 | 992.83 | 496.42 | 989.37 | 495.42 | 69.73 | -5.50 | 0.630 |
| 138.00 | -5.77 | -9.75 | 0.00 | -299.15 | 0.00 | 299.15 | 986.97 | 493.49 | 974.56 | 488.00 | 70.89 | -5.58 | 0.619 |
| 139.00 | -5.69 | -9.70 | 0.00 | -289.40 | 0.00 | 289.40 | 981.05 | 490.53 | 959.80 | 480.61 | 72.06 | -5.66 | 0.608 |
| 140.00 | -5.13 | -8.39 | 0.00 | -273.60 | 0.00 | 273.60 | 975.08 | 487.54 | 945.09 | 473.25 | 73.26 | -5.74 | 0.584 |
| 141.00 | -5.05 | -8.34 | 0.00 | -265.20 | 0.00 | 265.20 | 969.05 | 484.52 | 930.44 | 465.91 | 74.47 | -5.82 | 0.575 |
| 142.00 | -4.98 | -8.28 | 0.00 | -256.86 | 0.00 | 256.86 | 962.96 | 481.48 | 915.84 | 458.60 | 75.69 | -5.90 | 0.566 |
| 143.00 | -4.90 | -8.23 | 0.00 | -248.58 | 0.00 | 248.58 | 956.81 | 478.41 | 901.30 | 451.32 | 76.93 | -5.97 | 0.556 |
| 144.00 | -4.83 | -8.17 | 0.00 | -240.35 | 0.00 | 240.35 | 950.61 | 475.30 | 886.82 | 444.07 | 78.19 | -6.05 | 0.547 |
| 145.00 | -4.75 | -8.12 | 0.00 | -232.18 | 0.00 | 232.18 | 944.35 | 472.17 | 872.40 | 436.85 | 79.46 | -6.13 | 0.537 |
| 146.00 | -4.68 | -8.06 | 0.00 | -224.07 | 0.00 | 224.07 | 938.03 | 469.01 | 858.03 | 429.66 | 80.75 | -6.20 | 0.527 |
| 147.00 | -4.61 | -8.01 | 0.00 | -216.01 | 0.00 | 216.01 | 931.66 | 465.83 | 843.74 | 422.50 | 82.06 | -6.28 | 0.517 |
| 148.00 | -4.53 | -7.95 | 0.00 | -208.00 | 0.00 | 208.00 | 925.22 | 462.61 | 829.51 | 415.37 | 83.38 | -6.35 | 0.506 |
| 149.00 | -4.46 | -7.90 | 0.00 | -200.05 | 0.00 | 200.05 | 918.73 | 459.37 | 815.34 | 408.28 | 84.71 | -6.43 | 0.495 |
| 150.00 | -4.27 | -7.62 | 0.00 | -192.15 | 0.00 | 192.15 | 912.19 | 456.09 | 801.24 | 401.22 | 86.07 | -6.50 | 0.484 |
| 151.00 | -4.20 | -7.57 | 0.00 | -184.53 | 0.00 | 184.53 | 905.59 | 452.79 | 787.21 | 394.19 | 87.43 | -6.57 | 0.473 |
| 152.00 | -4.13 | -7.52 | 0.00 | -176.96 | 0.00 | 176.96 | 898.93 | 449.46 | 773.25 | 387.20 | 88.81 | -6.65 | 0.462 |
| 153.00 | -4.06 | -7.46 | 0.00 | -169.44 | 0.00 | 169.44 | 892.21 | 446.10 | 759.37 | 380.25 | 90.21 | -6.72 | 0.450 |
| 154.00 | -4.00 | -7.41 | 0.00 | -161.98 | 0.00 | 161.98 | 885.44 | 442.72 | 745.56 | 373.33 | 91.62 | -6.79 | 0.439 |
| 155.00 | -3.93 | -7.36 | 0.00 | -154.57 | 0.00 | 154.57 | 878.60 | 439.30 | 731.82 | 366.45 | 93.05 | -6.86 | 0.427 |
| 156.00 | -3.86 | -7.31 | 0.00 | -147.21 | 0.00 | 147.21 | 871.72 | 435.86 | 718.16 | 359.61 | 94.49 | -6.92 | 0.414 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:06 PM

Customer: AT&T MOBILITY

Load Case: 0.9D + 1.6W

90 mph with No Ice (Reduced DL)

34 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

Dead Load Factor : 0.90

Wind Load Factor : 1.60

| | | | | | | | | | | | | | |
|--------|-------|-------|------|---------|------|--------|--------|--------|--------|--------|--------|-------|-------|
| 157.00 | -3.80 | -7.25 | 0.00 | -139.91 | 0.00 | 139.91 | 864.77 | 432.39 | 704.58 | 352.81 | 95.94 | -6.99 | 0.401 |
| 158.00 | -3.73 | -7.20 | 0.00 | -132.65 | 0.00 | 132.65 | 857.77 | 428.88 | 691.08 | 346.05 | 97.41 | -7.06 | 0.388 |
| 159.00 | -3.67 | -7.15 | 0.00 | -125.45 | 0.00 | 125.45 | 850.71 | 425.35 | 677.66 | 339.34 | 98.89 | -7.12 | 0.374 |
| 160.00 | -3.60 | -7.08 | 0.00 | -118.30 | 0.00 | 118.30 | 843.59 | 421.80 | 664.33 | 332.66 | 100.39 | -7.18 | 0.360 |
| 161.00 | -3.55 | -6.97 | 0.00 | -111.23 | 0.00 | 111.23 | 836.42 | 418.21 | 651.08 | 326.02 | 101.89 | -7.25 | 0.346 |
| 162.00 | -3.49 | -6.86 | 0.00 | -104.26 | 0.00 | 104.26 | 829.19 | 414.59 | 637.92 | 319.43 | 103.41 | -7.31 | 0.331 |
| 163.00 | -3.44 | -6.76 | 0.00 | -97.40 | 0.00 | 97.40 | 819.85 | 409.92 | 623.28 | 312.10 | 104.95 | -7.36 | 0.317 |
| 164.00 | -3.38 | -6.65 | 0.00 | -90.64 | 0.00 | 90.64 | 810.15 | 405.07 | 608.54 | 304.72 | 106.49 | -7.42 | 0.302 |
| 165.00 | -3.33 | -6.54 | 0.00 | -83.99 | 0.00 | 83.99 | 800.44 | 400.22 | 593.98 | 297.43 | 108.05 | -7.47 | 0.287 |
| 166.00 | -3.28 | -6.44 | 0.00 | -77.45 | 0.00 | 77.45 | 790.74 | 395.37 | 579.60 | 290.23 | 109.61 | -7.52 | 0.271 |
| 167.00 | -2.30 | -4.59 | 0.00 | -71.01 | 0.00 | 71.01 | 781.04 | 390.52 | 565.39 | 283.11 | 111.19 | -7.57 | 0.254 |
| 168.00 | -2.25 | -4.54 | 0.00 | -66.42 | 0.00 | 66.42 | 771.34 | 385.67 | 551.35 | 276.09 | 112.78 | -7.62 | 0.244 |
| 169.00 | -2.21 | -4.49 | 0.00 | -61.88 | 0.00 | 61.88 | 761.63 | 380.82 | 537.50 | 269.15 | 114.37 | -7.67 | 0.233 |
| 170.00 | -2.16 | -4.45 | 0.00 | -57.38 | 0.00 | 57.38 | 751.93 | 375.97 | 523.82 | 262.30 | 115.98 | -7.71 | 0.222 |
| 171.00 | -2.11 | -4.40 | 0.00 | -52.94 | 0.00 | 52.94 | 742.23 | 371.11 | 510.32 | 255.54 | 117.59 | -7.75 | 0.210 |
| 172.00 | -2.07 | -4.35 | 0.00 | -48.54 | 0.00 | 48.54 | 732.53 | 366.26 | 496.99 | 248.86 | 119.22 | -7.79 | 0.198 |
| 173.00 | -2.02 | -4.30 | 0.00 | -44.19 | 0.00 | 44.19 | 722.82 | 361.41 | 483.84 | 242.28 | 120.85 | -7.83 | 0.185 |
| 174.00 | -1.98 | -4.26 | 0.00 | -39.89 | 0.00 | 39.89 | 713.12 | 356.56 | 470.86 | 235.78 | 122.49 | -7.87 | 0.172 |
| 175.00 | -1.94 | -4.21 | 0.00 | -35.63 | 0.00 | 35.63 | 703.42 | 351.71 | 458.07 | 229.37 | 124.14 | -7.90 | 0.158 |
| 176.00 | -1.89 | -4.17 | 0.00 | -31.42 | 0.00 | 31.42 | 693.72 | 346.86 | 445.44 | 223.05 | 125.79 | -7.93 | 0.144 |
| 177.00 | -1.85 | -4.12 | 0.00 | -27.25 | 0.00 | 27.25 | 684.02 | 342.01 | 433.00 | 216.82 | 127.45 | -7.96 | 0.129 |
| 178.00 | -1.81 | -4.08 | 0.00 | -23.13 | 0.00 | 23.13 | 674.31 | 337.16 | 420.73 | 210.68 | 129.11 | -7.99 | 0.113 |
| 179.00 | -1.77 | -4.03 | 0.00 | -19.05 | 0.00 | 19.05 | 664.61 | 332.31 | 408.64 | 204.62 | 130.79 | -8.01 | 0.096 |
| 180.00 | 0.00 | -3.75 | 0.00 | -15.02 | 0.00 | 15.02 | 654.91 | 327.45 | 396.72 | 198.65 | 132.46 | -8.03 | 0.076 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:07 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0Di + 1.0Wi

40 mph with 1.00 in Radial Ice

34 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 : 1.25

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 | | 8.5 | 0.0 | | | | | 0.0 | 0.0 | 8.5 | 0.0 | 0.0 | 0.0 |
| 1.00 | | 17.0 | 407.6 | | | | | 0.0 | 339.9 | 17.0 | 747.5 | 0.0 | 0.0 |
| 2.00 | | 17.0 | 419.2 | | | | | 0.0 | 356.1 | 17.0 | 775.4 | 0.0 | 0.0 |
| 3.00 | | 17.0 | 424.2 | | | | | 0.0 | 364.5 | 17.0 | 788.7 | 0.0 | 0.0 |
| 4.00 | | 17.0 | 427.0 | | | | | 0.0 | 370.4 | 17.0 | 797.4 | 0.0 | 0.0 |
| 5.00 | | 17.0 | 428.8 | | | | | 0.0 | 374.9 | 17.0 | 803.7 | 0.0 | 0.0 |
| 6.00 | | 16.9 | 429.9 | | | | | 0.0 | 378.6 | 16.9 | 808.5 | 0.0 | 0.0 |
| 7.00 | | 16.9 | 430.5 | | | | | 0.0 | 381.8 | 16.9 | 812.3 | 0.0 | 0.0 |
| 8.00 | | 16.8 | 430.8 | | | | | 0.0 | 384.6 | 16.8 | 815.4 | 0.0 | 0.0 |
| 9.00 | | 16.8 | 430.8 | | | | | 0.0 | 387.1 | 16.8 | 817.9 | 0.0 | 0.0 |
| 10.00 | | 16.7 | 430.7 | | | | | 0.0 | 389.3 | 16.7 | 820.0 | 0.0 | 0.0 |
| 11.00 | | 16.7 | 430.3 | | | | | 0.0 | 391.3 | 16.7 | 821.7 | 0.0 | 0.0 |
| 12.00 | | 16.6 | 429.9 | | | | | 0.0 | 393.2 | 16.6 | 823.1 | 0.0 | 0.0 |
| 13.00 | | 16.5 | 429.3 | | | | | 0.0 | 395.0 | 16.5 | 824.3 | 0.0 | 0.0 |
| 14.00 | | 16.5 | 428.6 | | | | | 0.0 | 396.6 | 16.5 | 825.2 | 0.0 | 0.0 |
| 15.00 | | 16.4 | 427.9 | | | | | 0.0 | 398.1 | 16.4 | 826.0 | 0.0 | 0.0 |
| 16.00 | | 16.4 | 427.0 | | | | | 0.0 | 399.6 | 16.4 | 826.6 | 0.0 | 0.0 |
| 17.00 | | 16.3 | 426.1 | | | | | 0.0 | 400.9 | 16.3 | 827.0 | 0.0 | 0.0 |
| 18.00 | | 16.3 | 425.1 | | | | | 0.0 | 402.2 | 16.3 | 827.4 | 0.0 | 0.0 |
| 19.00 | | 16.2 | 424.1 | | | | | 0.0 | 403.4 | 16.2 | 827.6 | 0.0 | 0.0 |
| 20.00 | | 16.1 | 423.1 | | | | | 0.0 | 404.6 | 16.1 | 827.7 | 0.0 | 0.0 |
| 21.00 | | 16.1 | 421.9 | | | | | 0.0 | 405.7 | 16.1 | 827.7 | 0.0 | 0.0 |
| 22.00 | | 16.0 | 420.8 | | | | | 0.0 | 406.8 | 16.0 | 827.6 | 0.0 | 0.0 |
| 23.00 | | 16.0 | 419.6 | | | | | 0.0 | 407.8 | 16.0 | 827.5 | 0.0 | 0.0 |
| 24.00 | | 15.9 | 418.4 | | | | | 0.0 | 408.8 | 15.9 | 827.2 | 0.0 | 0.0 |
| 25.00 | | 15.8 | 417.1 | | | | | 0.0 | 409.8 | 15.8 | 826.9 | 0.0 | 0.0 |
| 26.00 | | 15.8 | 415.9 | | | | | 0.0 | 410.7 | 15.8 | 826.6 | 0.0 | 0.0 |
| 27.00 | | 15.7 | 414.6 | | | | | 0.0 | 411.6 | 15.7 | 826.2 | 0.0 | 0.0 |
| 28.00 | | 15.7 | 413.2 | | | | | 0.0 | 412.5 | 15.7 | 825.7 | 0.0 | 0.0 |
| 29.00 | | 15.6 | 411.9 | | | | | 0.0 | 413.3 | 15.6 | 825.2 | 0.0 | 0.0 |
| 30.00 | Appertunance(s) | 15.6 | 410.5 | 4.6 | 0.0 | 0.0 | 74.8 | 0.0 | 414.1 | 20.1 | 899.4 | 0.0 | 0.0 |
| 31.00 | | 15.6 | 409.1 | | | | | 0.0 | 404.8 | 15.6 | 813.9 | 0.0 | 0.0 |
| 32.00 | | 15.7 | 407.7 | | | | | 0.0 | 405.5 | 15.7 | 813.2 | 0.0 | 0.0 |
| 33.00 | | 15.8 | 406.2 | | | | | 0.0 | 406.2 | 15.8 | 812.5 | 0.0 | 0.0 |
| 34.00 | | 15.9 | 404.8 | | | | | 0.0 | 406.9 | 15.9 | 811.7 | 0.0 | 0.0 |
| 35.00 | | 15.9 | 403.3 | | | | | 0.0 | 407.6 | 15.9 | 810.9 | 0.0 | 0.0 |
| 36.00 | | 16.0 | 401.8 | | | | | 0.0 | 408.2 | 16.0 | 810.0 | 0.0 | 0.0 |
| 37.00 | | 16.0 | 400.3 | | | | | 0.0 | 408.8 | 16.0 | 809.2 | 0.0 | 0.0 |
| 38.00 | | 16.1 | 398.8 | | | | | 0.0 | 409.4 | 16.1 | 808.2 | 0.0 | 0.0 |
| 39.00 | | 16.1 | 397.3 | | | | | 0.0 | 410.0 | 16.1 | 807.3 | 0.0 | 0.0 |
| 40.00 | | 16.2 | 395.7 | | | | | 0.0 | 410.6 | 16.2 | 806.4 | 0.0 | 0.0 |
| 41.00 | | 16.2 | 394.2 | | | | | 0.0 | 411.2 | 16.2 | 805.4 | 0.0 | 0.0 |
| 42.00 | | 15.9 | 392.6 | | | | | 0.0 | 411.8 | 15.9 | 804.4 | 0.0 | 0.0 |
| 42.96 | Bot - Section 2 | 8.2 | 374.1 | | | | | 0.0 | 394.4 | 8.2 | 768.5 | 0.0 | 0.0 |
| 43.00 | | 8.7 | 26.3 | | | | | 0.0 | 17.9 | 8.7 | 44.2 | 0.0 | 0.0 |
| 44.00 | | 16.6 | 603.7 | | | | | 0.0 | 412.8 | 16.6 | 1,016.5 | 0.0 | 0.0 |
| 45.00 | | 16.7 | 601.0 | | | | | 0.0 | 413.4 | 16.7 | 1,014.4 | 0.0 | 0.0 |
| 46.00 | | 16.7 | 598.3 | | | | | 0.0 | 413.9 | 16.7 | 1,012.2 | 0.0 | 0.0 |

| | | | | | | | | |
|--|--------------------------------|--|--|--|-------------------------------|--|--|--|
| Load Case: 1.2D + 1.0Di + 1.0Wi | 40 mph with 1.00 in Radial Ice | | | | 34 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 : 1.25 | | | |
| Wind Load Factor : 1.00 | | | | | | | | |

| | | | | | | | | | | | | | |
|--------|-----------------|-------|-------|-------|-----|-----|-------|-------|-------|---------|---------|-----|-----|
| 47.00 | 16.7 | 595.6 | | | | | 0.0 | 414.4 | 16.7 | 1,010.0 | 0.0 | 0.0 | |
| 48.00 | 16.7 | 593.0 | | | | | 0.0 | 414.9 | 16.7 | 1,007.8 | 0.0 | 0.0 | |
| 49.00 | 8.7 | 590.3 | | | | | 0.0 | 415.4 | 8.7 | 1,005.6 | 0.0 | 0.0 | |
| 49.04 | Top - Section 1 | 8.4 | 23.5 | | | | 0.0 | 16.6 | 8.4 | 40.1 | 0.0 | 0.0 | |
| 50.00 | | 16.5 | 338.4 | | | | 0.0 | 399.3 | 16.5 | 737.7 | 0.0 | 0.0 | |
| 51.00 | | 16.8 | 351.1 | | | | 0.0 | 416.3 | 16.8 | 767.4 | 0.0 | 0.0 | |
| 52.00 | | 16.8 | 349.6 | | | | 0.0 | 416.8 | 16.8 | 766.4 | 0.0 | 0.0 | |
| 53.00 | | 16.8 | 348.1 | | | | 0.0 | 417.2 | 16.8 | 765.3 | 0.0 | 0.0 | |
| 54.00 | | 16.9 | 346.6 | | | | 0.0 | 417.7 | 16.9 | 764.3 | 0.0 | 0.0 | |
| 55.00 | | 16.9 | 345.1 | | | | 0.0 | 418.1 | 16.9 | 763.2 | 0.0 | 0.0 | |
| 56.00 | | 16.9 | 343.6 | | | | 0.0 | 418.6 | 16.9 | 762.1 | 0.0 | 0.0 | |
| 57.00 | | 16.9 | 342.1 | | | | 0.0 | 419.0 | 16.9 | 761.1 | 0.0 | 0.0 | |
| 58.00 | | 16.9 | 340.5 | | | | 0.0 | 419.4 | 16.9 | 759.9 | 0.0 | 0.0 | |
| 59.00 | | 16.9 | 339.0 | | | | 0.0 | 419.8 | 16.9 | 758.8 | 0.0 | 0.0 | |
| 60.00 | | 16.9 | 337.5 | | | | 0.0 | 420.2 | 16.9 | 757.7 | 0.0 | 0.0 | |
| 61.00 | | 16.9 | 335.9 | | | | 0.0 | 420.6 | 16.9 | 756.6 | 0.0 | 0.0 | |
| 62.00 | | 16.9 | 334.4 | | | | 0.0 | 421.0 | 16.9 | 755.4 | 0.0 | 0.0 | |
| 63.00 | | 16.9 | 332.8 | | | | 0.0 | 421.4 | 16.9 | 754.2 | 0.0 | 0.0 | |
| 64.00 | | 16.9 | 331.2 | | | | 0.0 | 421.8 | 16.9 | 753.1 | 0.0 | 0.0 | |
| 65.00 | | 16.9 | 329.7 | | | | 7.0 | 422.2 | 23.9 | 751.9 | 0.0 | 0.0 | |
| 66.00 | | 16.9 | 328.1 | | | | 7.0 | 422.6 | 23.9 | 750.7 | 0.0 | 0.0 | |
| 67.00 | | 16.9 | 326.5 | | | | 7.0 | 422.9 | 23.9 | 749.5 | 0.0 | 0.0 | |
| 68.00 | | 16.9 | 324.9 | | | | 7.1 | 423.3 | 24.0 | 748.3 | 0.0 | 0.0 | |
| 69.00 | | 16.9 | 323.4 | | | | 7.1 | 423.7 | 24.0 | 747.0 | 0.0 | 0.0 | |
| 70.00 | | 16.9 | 321.8 | | | | 7.2 | 424.0 | 24.0 | 745.8 | 0.0 | 0.0 | |
| 71.00 | | 16.8 | 320.2 | | | | 7.2 | 424.4 | 24.0 | 744.5 | 0.0 | 0.0 | |
| 72.00 | | 16.8 | 318.6 | | | | 7.2 | 424.7 | 24.1 | 743.3 | 0.0 | 0.0 | |
| 73.00 | | 16.8 | 317.0 | | | | 7.3 | 425.1 | 24.1 | 742.0 | 0.0 | 0.0 | |
| 74.00 | | 16.8 | 315.3 | | | | 7.3 | 425.4 | 24.1 | 740.8 | 0.0 | 0.0 | |
| 75.00 | | 16.8 | 313.7 | | | | 7.3 | 425.8 | 24.1 | 739.5 | 0.0 | 0.0 | |
| 76.00 | | 16.7 | 312.1 | | | | 7.4 | 426.1 | 24.1 | 738.2 | 0.0 | 0.0 | |
| 77.00 | | 16.7 | 310.5 | | | | 7.4 | 426.4 | 24.1 | 736.9 | 0.0 | 0.0 | |
| 78.00 | | 16.7 | 308.8 | | | | 7.4 | 426.7 | 24.1 | 735.6 | 0.0 | 0.0 | |
| 79.00 | Appertunance(s) | 16.7 | 307.2 | 2.0 | 0.0 | 0.0 | 24.4 | 7.5 | 427.1 | 26.1 | 758.7 | 0.0 | 0.0 |
| 80.00 | | 16.7 | 305.6 | | | | | 7.5 | 427.2 | 24.1 | 732.8 | 0.0 | 0.0 |
| 81.00 | | 16.6 | 303.9 | | | | | 7.5 | 427.5 | 24.2 | 731.4 | 0.0 | 0.0 |
| 82.00 | | 16.6 | 302.3 | | | | | 7.6 | 427.8 | 24.2 | 730.1 | 0.0 | 0.0 |
| 83.00 | | 16.6 | 300.6 | | | | | 7.6 | 428.1 | 24.2 | 728.8 | 0.0 | 0.0 |
| 84.00 | | 16.5 | 299.0 | | | | | 7.6 | 428.4 | 24.2 | 727.4 | 0.0 | 0.0 |
| 85.00 | | 16.5 | 297.3 | | | | | 7.7 | 428.7 | 24.2 | 726.1 | 0.0 | 0.0 |
| 86.00 | | 16.5 | 295.7 | | | | | 7.7 | 429.0 | 24.2 | 724.7 | 0.0 | 0.0 |
| 87.00 | | 12.7 | 294.0 | | | | | 7.7 | 429.3 | 20.4 | 723.3 | 0.0 | 0.0 |
| 87.54 | Bot - Section 3 | 8.3 | 158.1 | | | | | 4.2 | 231.9 | 12.5 | 390.1 | 0.0 | 0.0 |
| 88.00 | | 12.2 | 199.8 | | | | | 3.6 | 197.7 | 15.7 | 397.5 | 0.0 | 0.0 |
| 89.00 | | 16.6 | 432.1 | | | | | 7.8 | 429.9 | 24.4 | 862.0 | 0.0 | 0.0 |
| 90.00 | | 16.6 | 429.6 | | | | | 7.8 | 430.2 | 24.4 | 859.8 | 0.0 | 0.0 |
| 91.00 | | 16.6 | 427.0 | | | | | 7.8 | 430.5 | 24.4 | 857.5 | 0.0 | 0.0 |
| 92.00 | | 12.0 | 424.4 | | | | | 7.9 | 430.8 | 19.9 | 855.2 | 0.0 | 0.0 |
| 92.46 | Top - Section 2 | 8.3 | 193.0 | | | | | 3.6 | 196.8 | 11.9 | 389.8 | 0.0 | 0.0 |
| 93.00 | | 12.7 | 142.5 | | | | | 4.3 | 234.3 | 17.0 | 376.7 | 0.0 | 0.0 |
| 94.00 | | 16.4 | 260.8 | | | | | 7.9 | 431.3 | 24.4 | 692.1 | 0.0 | 0.0 |
| 95.00 | | 16.4 | 259.3 | | | | | 8.0 | 431.6 | 24.4 | 690.9 | 0.0 | 0.0 |
| 96.00 | Appertunance(s) | 16.4 | 257.8 | 111.2 | 0.0 | 0.0 | 975.4 | 8.0 | 431.9 | 135.6 | 1,665.1 | 0.0 | 0.0 |
| 97.00 | | 16.3 | 256.3 | | | | | 8.0 | 431.2 | 24.3 | 687.4 | 0.0 | 0.0 |
| 98.00 | | 16.3 | 254.8 | | | | | 8.0 | 431.4 | 24.3 | 686.2 | 0.0 | 0.0 |
| 99.00 | | 16.2 | 253.3 | | | | | 8.1 | 431.7 | 24.3 | 684.9 | 0.0 | 0.0 |
| 100.00 | | 16.2 | 251.7 | | | | | 8.1 | 431.9 | 24.3 | 683.7 | 0.0 | 0.0 |

| | | | | | | | | | |
|--|--|--------------------------------|--|--|--|--|--|-------------------------------|--|
| Load Case: 1.2D + 1.0Di + 1.0Wi | | 40 mph with 1.00 in Radial Ice | | | | | | 34 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 : 1.25 | |
| Wind Load Factor : 1.00 | | | | | | | | | |

| | | | | | | | | | | | | | |
|--------|-----------------|------|-------|-------|-----|---------|---------|-----|-------|-------|---------|-----|-----|
| 101.00 | | 16.1 | 250.2 | | | | | 8.1 | 432.2 | 24.3 | 682.4 | 0.0 | 0.0 |
| 102.00 | | 16.1 | 248.7 | | | | | 8.2 | 432.5 | 24.2 | 681.1 | 0.0 | 0.0 |
| 103.00 | | 14.0 | 247.1 | | | | | 8.2 | 432.7 | 22.2 | 679.9 | 0.0 | 0.0 |
| 103.75 | Reinf. Top | 8.0 | 184.4 | | | | | 6.2 | 324.7 | 14.2 | 509.1 | 0.0 | 0.0 |
| 104.00 | | 10.0 | 61.3 | | | | | 2.1 | 88.2 | 12.0 | 149.6 | 0.0 | 0.0 |
| 105.00 | Appertunance(s) | 15.9 | 244.1 | 63.2 | 0.0 | 0.0 | 767.8 | 8.2 | 353.1 | 87.4 | 1,365.0 | 0.0 | 0.0 |
| 106.00 | | 15.9 | 242.5 | | | | | 8.3 | 309.9 | 24.2 | 552.4 | 0.0 | 0.0 |
| 107.00 | | 15.8 | 241.0 | | | | | 8.3 | 310.1 | 24.1 | 551.1 | 0.0 | 0.0 |
| 108.00 | | 15.8 | 239.5 | | | | | 8.3 | 310.3 | 24.1 | 549.7 | 0.0 | 0.0 |
| 109.00 | | 15.7 | 237.9 | | | | | 8.3 | 310.5 | 24.1 | 548.4 | 0.0 | 0.0 |
| 110.00 | | 15.7 | 236.4 | | | | | 8.4 | 310.7 | 24.1 | 547.0 | 0.0 | 0.0 |
| 111.00 | | 15.6 | 234.8 | | | | | 8.4 | 310.9 | 24.0 | 545.7 | 0.0 | 0.0 |
| 112.00 | Appertunance(s) | 15.6 | 233.3 | 371.6 | 0.0 | 0.0 | 5,340.0 | 8.4 | 311.1 | 395.6 | 5,884.3 | 0.0 | 0.0 |
| 113.00 | | 15.5 | 231.7 | | | | | 0.0 | 204.7 | 15.5 | 436.4 | 0.0 | 0.0 |
| 114.00 | | 15.5 | 230.1 | | | | | 8.4 | 160.3 | 23.9 | 390.5 | 0.0 | 0.0 |
| 115.00 | | 15.4 | 228.6 | | | | | 8.5 | 160.4 | 23.9 | 389.0 | 0.0 | 0.0 |
| 116.00 | | 15.3 | 227.0 | | | | | 8.5 | 160.5 | 23.8 | 387.6 | 0.0 | 0.0 |
| 117.00 | | 15.3 | 225.5 | | | | | 8.5 | 160.6 | 23.8 | 386.1 | 0.0 | 0.0 |
| 118.00 | | 15.2 | 223.9 | | | | | 8.5 | 160.7 | 23.8 | 384.6 | 0.0 | 0.0 |
| 119.00 | | 15.2 | 222.3 | | | | | 8.6 | 160.8 | 23.7 | 383.2 | 0.0 | 0.0 |
| 120.00 | | 15.1 | 220.8 | | | | | 8.6 | 160.9 | 23.7 | 381.7 | 0.0 | 0.0 |
| 121.00 | | 15.0 | 219.2 | | | | | 8.6 | 161.0 | 23.7 | 380.2 | 0.0 | 0.0 |
| 122.00 | | 15.0 | 217.6 | | | | | 8.6 | 161.1 | 23.6 | 378.7 | 0.0 | 0.0 |
| 123.00 | | 14.9 | 216.0 | | | | | 8.7 | 161.2 | 23.6 | 377.3 | 0.0 | 0.0 |
| 124.00 | | 14.9 | 214.5 | | | | | 8.7 | 161.3 | 23.5 | 375.8 | 0.0 | 0.0 |
| 125.00 | Appertunance(s) | 14.8 | 212.9 | 373.4 | 0.0 | 0.0 | 6,261.7 | 8.7 | 161.4 | 396.9 | 6,636.0 | 0.0 | 0.0 |
| 126.00 | | 14.7 | 211.3 | | | | | 0.0 | 115.7 | 14.7 | 327.0 | 0.0 | 0.0 |
| 127.00 | | 14.7 | 209.7 | | | | | 0.0 | 115.8 | 14.7 | 325.5 | 0.0 | 0.0 |
| 128.00 | | 14.6 | 208.1 | | | | | 0.0 | 115.8 | 14.6 | 324.0 | 0.0 | 0.0 |
| 129.00 | | 14.5 | 206.5 | | | | | 0.0 | 115.9 | 14.5 | 322.4 | 0.0 | 0.0 |
| 130.00 | | 14.5 | 204.9 | | | | | 0.0 | 115.9 | 14.5 | 320.9 | 0.0 | 0.0 |
| 131.00 | | 14.4 | 203.4 | | | | | 0.0 | 116.0 | 14.4 | 319.4 | 0.0 | 0.0 |
| 132.00 | | 8.0 | 201.8 | | | | | 0.0 | 116.1 | 8.0 | 317.8 | 0.0 | 0.0 |
| 132.12 | Bot - Section 4 | 7.2 | 24.1 | | | | | 0.0 | 13.9 | 7.2 | 38.0 | 0.0 | 0.0 |
| 133.00 | | 13.6 | 231.3 | | | | | 0.0 | 102.2 | 13.6 | 333.5 | 0.0 | 0.0 |
| 134.00 | | 14.4 | 260.7 | | | | | 0.0 | 116.2 | 14.4 | 376.9 | 0.0 | 0.0 |
| 135.00 | Appertunance(s) | 13.4 | 258.6 | 473.9 | 0.0 | 0.0 | 8,684.3 | 0.0 | 116.2 | 487.3 | 9,059.1 | 0.0 | 0.0 |
| 135.87 | Top - Section 3 | 7.1 | 223.2 | | | | | 0.0 | 97.3 | 7.1 | 320.5 | 0.0 | 0.0 |
| 136.00 | | 8.0 | 20.7 | | | | | 0.0 | 14.6 | 8.0 | 35.2 | 0.0 | 0.0 |
| 137.00 | | 14.2 | 157.7 | | | | | 0.0 | 111.9 | 14.2 | 269.6 | 0.0 | 0.0 |
| 138.00 | | 14.1 | 156.4 | | | | | 0.0 | 111.9 | 14.1 | 268.4 | 0.0 | 0.0 |
| 139.00 | | 14.0 | 155.2 | | | | | 0.0 | 112.0 | 14.0 | 267.2 | 0.0 | 0.0 |
| 140.00 | Appertunance(s) | 13.9 | 153.9 | 306.6 | 0.0 | 1,829.8 | 2,908.8 | 0.0 | 112.1 | 320.5 | 3,174.8 | 0.0 | 0.0 |
| 141.00 | | 13.9 | 152.7 | | | | | 0.0 | 105.4 | 13.9 | 258.1 | 0.0 | 0.0 |
| 142.00 | | 13.8 | 151.4 | | | | | 0.0 | 105.5 | 13.8 | 256.9 | 0.0 | 0.0 |
| 143.00 | | 13.7 | 150.2 | | | | | 0.0 | 105.5 | 13.7 | 255.7 | 0.0 | 0.0 |
| 144.00 | | 13.6 | 148.9 | | | | | 0.0 | 105.6 | 13.6 | 254.5 | 0.0 | 0.0 |
| 145.00 | | 13.6 | 147.7 | | | | | 0.0 | 105.6 | 13.6 | 253.3 | 0.0 | 0.0 |
| 146.00 | | 13.5 | 146.4 | | | | | 0.0 | 105.7 | 13.5 | 252.1 | 0.0 | 0.0 |
| 147.00 | | 13.4 | 145.1 | | | | | 0.0 | 105.7 | 13.4 | 250.9 | 0.0 | 0.0 |
| 148.00 | | 13.3 | 143.9 | | | | | 0.0 | 105.8 | 13.3 | 249.7 | 0.0 | 0.0 |
| 149.00 | | 13.3 | 142.6 | | | | | 0.0 | 105.8 | 13.3 | 248.5 | 0.0 | 0.0 |
| 150.00 | Appertunance(s) | 13.2 | 141.4 | 65.0 | 0.0 | 0.0 | 333.0 | 0.0 | 105.9 | 78.2 | 580.2 | 0.0 | 0.0 |
| 151.00 | | 13.1 | 140.1 | | | | | 0.0 | 105.0 | 13.1 | 245.0 | 0.0 | 0.0 |
| 152.00 | | 13.0 | 138.8 | | | | | 0.0 | 105.0 | 13.0 | 243.8 | 0.0 | 0.0 |
| 153.00 | | 12.9 | 137.5 | | | | | 0.0 | 105.1 | 12.9 | 242.6 | 0.0 | 0.0 |
| 154.00 | | 12.9 | 136.3 | | | | | 0.0 | 105.1 | 12.9 | 241.4 | 0.0 | 0.0 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:25 PM

Customer: AT&T MOBILITY

| Load Case: 1.2D + 1.0Di + 1.0Wi | | | 40 mph with 1.00 in Radial Ice | | | | 34 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 : 1.25 | | | | | | | | |
| Wind Load Factor : 1.00 | | | | | | | | | | | | | | |
| 155.00 | | 12.8 | 135.0 | | | 0.0 | 105.2 | 12.8 | 240.2 | 0.0 | 0.0 | | | |
| 156.00 | | 12.7 | 133.7 | | | 0.0 | 105.2 | 12.7 | 238.9 | 0.0 | 0.0 | | | |
| 157.00 | | 12.6 | 132.5 | | | 0.0 | 105.3 | 12.6 | 237.7 | 0.0 | 0.0 | | | |
| 158.00 | | 12.5 | 131.2 | | | 0.0 | 105.3 | 12.5 | 236.5 | 0.0 | 0.0 | | | |
| 159.00 | | 12.4 | 129.9 | | | 0.0 | 105.3 | 12.4 | 235.2 | 0.0 | 0.0 | | | |
| 160.00 | | 12.4 | 128.6 | | | 0.0 | 105.4 | 12.4 | 234.0 | 0.0 | 0.0 | | | |
| 161.00 | | 12.3 | 127.3 | | | 4.8 | 105.4 | 17.0 | 232.8 | 0.0 | 0.0 | | | |
| 162.00 | | 12.2 | 126.1 | | | 4.8 | 105.5 | 17.0 | 231.5 | 0.0 | 0.0 | | | |
| 163.00 | | 12.1 | 124.8 | | | 4.8 | 105.5 | 16.9 | 230.3 | 0.0 | 0.0 | | | |
| 164.00 | | 12.0 | 123.5 | | | 4.8 | 105.6 | 16.8 | 229.1 | 0.0 | 0.0 | | | |
| 165.00 | | 11.9 | 122.2 | | | 4.8 | 105.6 | 16.7 | 227.8 | 0.0 | 0.0 | | | |
| 166.00 | | 11.8 | 120.9 | | | 4.8 | 105.7 | 16.6 | 226.6 | 0.0 | 0.0 | | | |
| 167.00 | Appertunance(s) | 11.8 | 119.6 | 312.2 | 0.0 | 0.0 | 4,456.0 | 4.8 | 105.7 | 328.8 | 4,681.4 | 0.0 | 0.0 | |
| 168.00 | | 11.7 | 118.3 | | | 0.0 | 23.9 | 11.7 | 142.2 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 169.00 | | 11.6 | 117.0 | | | 0.0 | 23.9 | 11.6 | 141.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 170.00 | | 11.5 | 115.7 | | | 0.0 | 23.9 | 11.5 | 139.7 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 171.00 | | 11.4 | 114.5 | | | 0.0 | 23.9 | 11.4 | 138.4 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 172.00 | | 11.3 | 113.2 | | | 0.0 | 23.9 | 11.3 | 137.1 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 173.00 | | 11.2 | 111.9 | | | 0.0 | 23.9 | 11.2 | 135.8 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 174.00 | | 11.1 | 110.6 | | | 0.0 | 23.9 | 11.1 | 134.5 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 175.00 | | 11.0 | 109.3 | | | 0.0 | 23.9 | 11.0 | 133.2 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 176.00 | | 11.0 | 108.0 | | | 0.0 | 23.9 | 11.0 | 131.9 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 177.00 | | 10.9 | 106.7 | | | 0.0 | 23.9 | 10.9 | 130.6 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 178.00 | | 10.8 | 105.4 | | | 0.0 | 23.9 | 10.8 | 129.3 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 179.00 | | 10.7 | 104.1 | | | 0.0 | 23.9 | 10.7 | 128.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 180.00 | Appertunance(s) | 5.3 | 102.8 | 677.6 | 0.0 | 2,741.8 | 9,451.6 | 0.0 | 23.9 | 682.9 | 9,578.3 | 0.0 | 0.0 | |
| | | | | | | | | Totals: | 6,017.66 | 143,822. | 0.00 | 0.00 | | |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:25 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0Di + 1.0Wi

40 mph with 1.00 in Radial Ice

34 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 : 1.25

Wind Load Factor : 1.00

Calculated Forces

| Seg | Pu | Vu | Tu | Mu | Mu | Resultant | phi | phi | phi | phi | Total | Rotation | |
|-------|---------|--------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----------|---------|----------|-------|
| Elev | FY (-) | FX (-) | MY | MZ | MX | Moment | Pn | Vn | Tn | Mn | Deflect | (deg) | Ratio |
| (ft) | (kips) | (kips) | (ft-kips) | (ft-kips) | (ft-kips) | (ft-kips) | (kips) | (kips) | (ft-kips) | (ft-kips) | (in) | | |
| 0.00 | -143.82 | -6.02 | 0.00 | -793.01 | 0.00 | 793.01 | 5,129.98 | 2,564.99 | 11,021.5 | 5,518.96 | 0.00 | 0.00 | 0.128 |
| 1.00 | -143.07 | -6.02 | 0.00 | -787.00 | 0.00 | 787.00 | 5,115.23 | 2,557.61 | 10,943.3 | 5,479.82 | 0.00 | -0.01 | 0.128 |
| 2.00 | -142.30 | -6.02 | 0.00 | -780.98 | 0.00 | 780.98 | 5,100.42 | 2,550.21 | 10,865.3 | 5,440.75 | 0.00 | -0.01 | 0.128 |
| 3.00 | -141.51 | -6.01 | 0.00 | -774.97 | 0.00 | 774.97 | 5,085.56 | 2,542.78 | 10,787.4 | 5,401.75 | 0.01 | -0.02 | 0.128 |
| 4.00 | -140.71 | -6.01 | 0.00 | -768.95 | 0.00 | 768.95 | 5,070.64 | 2,535.32 | 10,709.7 | 5,362.83 | 0.01 | -0.03 | 0.127 |
| 5.00 | -139.91 | -6.01 | 0.00 | -762.94 | 0.00 | 762.94 | 5,055.67 | 2,527.83 | 10,632.1 | 5,323.99 | 0.02 | -0.03 | 0.127 |
| 6.00 | -139.10 | -6.01 | 0.00 | -756.93 | 0.00 | 756.93 | 5,040.63 | 2,520.32 | 10,554.7 | 5,285.22 | 0.03 | -0.04 | 0.127 |
| 7.00 | -138.28 | -6.01 | 0.00 | -750.92 | 0.00 | 750.92 | 5,025.54 | 2,512.77 | 10,477.4 | 5,246.53 | 0.03 | -0.05 | 0.126 |
| 8.00 | -137.47 | -6.01 | 0.00 | -744.91 | 0.00 | 744.91 | 5,010.40 | 2,505.20 | 10,400.3 | 5,207.92 | 0.05 | -0.05 | 0.126 |
| 9.00 | -136.65 | -6.01 | 0.00 | -738.90 | 0.00 | 738.90 | 4,995.19 | 2,497.60 | 10,323.4 | 5,169.39 | 0.06 | -0.06 | 0.126 |
| 10.00 | -135.83 | -6.01 | 0.00 | -732.89 | 0.00 | 732.89 | 4,979.93 | 2,489.97 | 10,246.6 | 5,130.93 | 0.07 | -0.07 | 0.125 |
| 11.00 | -135.01 | -6.00 | 0.00 | -726.89 | 0.00 | 726.89 | 4,964.61 | 2,482.31 | 10,170.0 | 5,092.56 | 0.09 | -0.07 | 0.125 |
| 12.00 | -134.18 | -6.00 | 0.00 | -720.88 | 0.00 | 720.88 | 4,949.24 | 2,474.62 | 10,093.5 | 5,054.27 | 0.10 | -0.08 | 0.125 |
| 13.00 | -133.36 | -6.00 | 0.00 | -714.88 | 0.00 | 714.88 | 4,933.81 | 2,466.90 | 10,017.2 | 5,016.06 | 0.12 | -0.09 | 0.124 |
| 14.00 | -132.53 | -6.00 | 0.00 | -708.88 | 0.00 | 708.88 | 4,918.32 | 2,459.16 | 9,941.08 | 4,977.93 | 0.14 | -0.09 | 0.124 |
| 15.00 | -131.70 | -6.00 | 0.00 | -702.88 | 0.00 | 702.88 | 4,902.77 | 2,451.39 | 9,865.10 | 4,939.88 | 0.16 | -0.10 | 0.124 |
| 16.00 | -130.88 | -6.00 | 0.00 | -696.88 | 0.00 | 696.88 | 4,887.17 | 2,443.58 | 9,789.30 | 4,901.92 | 0.18 | -0.11 | 0.123 |
| 17.00 | -130.05 | -5.99 | 0.00 | -690.88 | 0.00 | 690.88 | 4,871.51 | 2,435.75 | 9,713.66 | 4,864.05 | 0.21 | -0.12 | 0.123 |
| 18.00 | -129.22 | -5.99 | 0.00 | -684.89 | 0.00 | 684.89 | 4,855.79 | 2,427.89 | 9,638.20 | 4,826.26 | 0.23 | -0.12 | 0.123 |
| 19.00 | -128.39 | -5.99 | 0.00 | -678.90 | 0.00 | 678.90 | 4,840.02 | 2,420.01 | 9,562.90 | 4,788.56 | 0.26 | -0.13 | 0.122 |
| 20.00 | -127.56 | -5.99 | 0.00 | -672.91 | 0.00 | 672.91 | 4,824.18 | 2,412.09 | 9,487.79 | 4,750.94 | 0.28 | -0.14 | 0.122 |
| 21.00 | -126.74 | -5.99 | 0.00 | -666.92 | 0.00 | 666.92 | 4,808.29 | 2,404.15 | 9,412.84 | 4,713.42 | 0.31 | -0.14 | 0.122 |
| 22.00 | -125.91 | -5.98 | 0.00 | -660.94 | 0.00 | 660.94 | 4,792.35 | 2,396.17 | 9,338.08 | 4,675.98 | 0.35 | -0.15 | 0.121 |
| 23.00 | -125.08 | -5.98 | 0.00 | -654.96 | 0.00 | 654.96 | 4,776.35 | 2,388.17 | 9,263.49 | 4,638.63 | 0.38 | -0.16 | 0.121 |
| 24.00 | -124.25 | -5.98 | 0.00 | -648.98 | 0.00 | 648.98 | 4,760.29 | 2,380.14 | 9,189.09 | 4,601.37 | 0.41 | -0.17 | 0.121 |
| 25.00 | -123.42 | -5.97 | 0.00 | -643.00 | 0.00 | 643.00 | 4,744.17 | 2,372.08 | 9,114.87 | 4,564.21 | 0.45 | -0.17 | 0.120 |
| 26.00 | -122.60 | -5.97 | 0.00 | -637.02 | 0.00 | 637.02 | 4,728.00 | 2,364.00 | 9,040.83 | 4,527.13 | 0.48 | -0.18 | 0.120 |
| 27.00 | -121.77 | -5.97 | 0.00 | -631.05 | 0.00 | 631.05 | 4,711.76 | 2,355.88 | 8,966.98 | 4,490.15 | 0.52 | -0.19 | 0.120 |
| 28.00 | -120.94 | -5.97 | 0.00 | -625.09 | 0.00 | 625.09 | 4,695.48 | 2,347.74 | 8,893.31 | 4,453.26 | 0.56 | -0.19 | 0.119 |
| 29.00 | -120.12 | -5.96 | 0.00 | -619.12 | 0.00 | 619.12 | 4,679.13 | 2,339.57 | 8,819.83 | 4,416.47 | 0.60 | -0.20 | 0.119 |
| 30.00 | -119.22 | -5.95 | 0.00 | -613.16 | 0.00 | 613.16 | 4,662.73 | 2,331.36 | 8,746.54 | 4,379.77 | 0.65 | -0.21 | 0.118 |
| 31.00 | -118.40 | -5.95 | 0.00 | -607.20 | 0.00 | 607.20 | 4,646.27 | 2,323.14 | 8,673.45 | 4,343.17 | 0.69 | -0.22 | 0.118 |
| 32.00 | -117.59 | -5.95 | 0.00 | -601.25 | 0.00 | 601.25 | 4,629.75 | 2,314.88 | 8,600.55 | 4,306.67 | 0.74 | -0.22 | 0.118 |
| 33.00 | -116.78 | -5.94 | 0.00 | -595.31 | 0.00 | 595.31 | 4,613.18 | 2,306.59 | 8,527.84 | 4,270.26 | 0.79 | -0.23 | 0.117 |
| 34.00 | -115.96 | -5.94 | 0.00 | -589.37 | 0.00 | 589.37 | 4,596.55 | 2,298.27 | 8,455.33 | 4,233.95 | 0.83 | -0.24 | 0.117 |
| 35.00 | -115.15 | -5.93 | 0.00 | -583.43 | 0.00 | 583.43 | 4,579.86 | 2,289.93 | 8,383.01 | 4,197.74 | 0.89 | -0.25 | 0.116 |
| 36.00 | -114.34 | -5.93 | 0.00 | -577.49 | 0.00 | 577.49 | 4,563.12 | 2,281.56 | 8,310.90 | 4,161.63 | 0.94 | -0.25 | 0.116 |
| 37.00 | -113.53 | -5.92 | 0.00 | -571.56 | 0.00 | 571.56 | 4,546.32 | 2,273.16 | 8,238.99 | 4,125.62 | 0.99 | -0.26 | 0.115 |
| 38.00 | -112.72 | -5.92 | 0.00 | -565.64 | 0.00 | 565.64 | 4,529.46 | 2,264.73 | 8,167.27 | 4,089.71 | 1.05 | -0.27 | 0.115 |
| 39.00 | -111.91 | -5.91 | 0.00 | -559.72 | 0.00 | 559.72 | 4,512.54 | 2,256.27 | 8,095.77 | 4,053.90 | 1.10 | -0.28 | 0.115 |
| 40.00 | -111.11 | -5.91 | 0.00 | -553.81 | 0.00 | 553.81 | 4,495.22 | 2,245.61 | 8,016.71 | 4,014.31 | 1.16 | -0.28 | 0.114 |
| 41.00 | -110.30 | -5.90 | 0.00 | -547.90 | 0.00 | 547.90 | 4,468.58 | 2,234.29 | 7,935.69 | 3,973.74 | 1.22 | -0.29 | 0.114 |
| 42.00 | -109.50 | -5.90 | 0.00 | -542.00 | 0.00 | 542.00 | 4,445.95 | 2,222.97 | 7,855.09 | 3,933.38 | 1.28 | -0.30 | 0.114 |
| 42.96 | -108.73 | -5.89 | 0.00 | -536.36 | 0.00 | 536.36 | 4,424.29 | 2,212.15 | 7,778.37 | 3,894.97 | 1.34 | -0.30 | 0.113 |
| 43.00 | -108.68 | -5.89 | 0.00 | -536.10 | 0.00 | 536.10 | 4,423.31 | 2,211.65 | 7,774.90 | 3,893.23 | 1.35 | -0.31 | 0.112 |
| 44.00 | -107.67 | -5.88 | 0.00 | -530.21 | 0.00 | 530.21 | 4,400.67 | 2,200.33 | 7,695.11 | 3,853.28 | 1.41 | -0.31 | 0.112 |
| 45.00 | -106.65 | -5.87 | 0.00 | -524.33 | 0.00 | 524.33 | 4,378.03 | 2,189.01 | 7,615.75 | 3,813.53 | 1.48 | -0.32 | 0.112 |
| 46.00 | -105.64 | -5.87 | 0.00 | -518.46 | 0.00 | 518.46 | 4,355.39 | 2,177.70 | 7,536.79 | 3,773.99 | 1.55 | -0.33 | 0.111 |
| 47.00 | -104.63 | -5.86 | 0.00 | -512.59 | 0.00 | 512.59 | 4,332.75 | 2,166.38 | 7,458.24 | 3,734.66 | 1.62 | -0.34 | 0.111 |
| 48.00 | -103.62 | -5.85 | 0.00 | -506.74 | 0.00 | 506.74 | 4,310.11 | 2,155.06 | 7,380.10 | 3,695.54 | 1.69 | -0.34 | 0.111 |
| 49.00 | -102.61 | -5.84 | 0.00 | -500.89 | 0.00 | 500.89 | 4,287.47 | 2,143.74 | 7,302.38 | 3,656.62 | 1.76 | -0.35 | 0.110 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:26 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0Di + 1.0Wi

40 mph with 1.00 in Radial Ice

34 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 : 1.25

Wind Load Factor : 1.00

| | | | | | | | | | | | | | |
|--------|---------|-------|------|---------|------|--------|----------|----------|----------|----------|------|-------|-------|
| 49.04 | -102.57 | -5.84 | 0.00 | -500.66 | 0.00 | 500.66 | 3,622.99 | 1,811.50 | 6,300.42 | 3,154.89 | 1.76 | -0.35 | 0.124 |
| 50.00 | -101.83 | -5.83 | 0.00 | -495.05 | 0.00 | 495.05 | 3,610.23 | 1,805.12 | 6,246.74 | 3,128.01 | 1.83 | -0.36 | 0.123 |
| 51.00 | -101.07 | -5.82 | 0.00 | -489.22 | 0.00 | 489.22 | 3,596.89 | 1,798.44 | 6,190.96 | 3,100.08 | 1.91 | -0.37 | 0.123 |
| 52.00 | -100.30 | -5.82 | 0.00 | -483.40 | 0.00 | 483.40 | 3,583.49 | 1,791.74 | 6,135.33 | 3,072.23 | 1.99 | -0.37 | 0.122 |
| 53.00 | -99.53 | -5.81 | 0.00 | -477.58 | 0.00 | 477.58 | 3,570.03 | 1,785.02 | 6,079.85 | 3,044.45 | 2.07 | -0.38 | 0.121 |
| 54.00 | -98.77 | -5.80 | 0.00 | -471.78 | 0.00 | 471.78 | 3,556.52 | 1,778.26 | 6,024.52 | 3,016.74 | 2.15 | -0.39 | 0.121 |
| 55.00 | -98.00 | -5.79 | 0.00 | -465.98 | 0.00 | 465.98 | 3,542.95 | 1,771.47 | 5,969.33 | 2,989.10 | 2.23 | -0.40 | 0.120 |
| 56.00 | -97.24 | -5.78 | 0.00 | -460.19 | 0.00 | 460.19 | 3,529.32 | 1,764.66 | 5,914.30 | 2,961.55 | 2.31 | -0.41 | 0.119 |
| 57.00 | -96.48 | -5.77 | 0.00 | -454.40 | 0.00 | 454.40 | 3,515.63 | 1,757.82 | 5,859.42 | 2,934.06 | 2.40 | -0.41 | 0.119 |
| 58.00 | -95.72 | -5.77 | 0.00 | -448.63 | 0.00 | 448.63 | 3,501.89 | 1,750.94 | 5,804.69 | 2,906.66 | 2.49 | -0.42 | 0.118 |
| 59.00 | -94.96 | -5.76 | 0.00 | -442.86 | 0.00 | 442.86 | 3,488.09 | 1,744.04 | 5,750.12 | 2,879.33 | 2.58 | -0.43 | 0.117 |
| 60.00 | -94.20 | -5.75 | 0.00 | -437.11 | 0.00 | 437.11 | 3,474.23 | 1,737.12 | 5,695.71 | 2,852.09 | 2.67 | -0.44 | 0.116 |
| 61.00 | -93.44 | -5.74 | 0.00 | -431.36 | 0.00 | 431.36 | 3,460.32 | 1,730.16 | 5,641.45 | 2,824.92 | 2.76 | -0.45 | 0.116 |
| 62.00 | -92.69 | -5.73 | 0.00 | -425.62 | 0.00 | 425.62 | 3,446.35 | 1,723.17 | 5,587.36 | 2,797.83 | 2.86 | -0.46 | 0.115 |
| 63.00 | -91.93 | -5.72 | 0.00 | -419.90 | 0.00 | 419.90 | 3,432.32 | 1,716.16 | 5,533.43 | 2,770.83 | 2.95 | -0.46 | 0.114 |
| 64.00 | -91.18 | -5.71 | 0.00 | -414.18 | 0.00 | 414.18 | 3,418.23 | 1,709.12 | 5,479.66 | 2,743.90 | 3.05 | -0.47 | 0.114 |
| 65.00 | -90.43 | -5.69 | 0.00 | -408.47 | 0.00 | 408.47 | 3,404.09 | 1,702.05 | 5,426.05 | 2,717.06 | 3.15 | -0.48 | 0.113 |
| 66.00 | -89.68 | -5.67 | 0.00 | -402.78 | 0.00 | 402.78 | 3,389.89 | 1,694.95 | 5,372.62 | 2,690.30 | 3.25 | -0.49 | 0.112 |
| 67.00 | -88.93 | -5.66 | 0.00 | -397.11 | 0.00 | 397.11 | 3,375.64 | 1,687.82 | 5,319.35 | 2,663.63 | 3.36 | -0.50 | 0.111 |
| 68.00 | -88.18 | -5.64 | 0.00 | -391.45 | 0.00 | 391.45 | 3,361.32 | 1,680.66 | 5,266.25 | 2,637.04 | 3.46 | -0.50 | 0.111 |
| 69.00 | -87.43 | -5.62 | 0.00 | -385.81 | 0.00 | 385.81 | 3,346.95 | 1,673.48 | 5,213.32 | 2,610.53 | 3.57 | -0.51 | 0.110 |
| 70.00 | -86.68 | -5.60 | 0.00 | -380.19 | 0.00 | 380.19 | 3,332.53 | 1,666.26 | 5,160.56 | 2,584.12 | 3.68 | -0.52 | 0.109 |
| 71.00 | -85.94 | -5.58 | 0.00 | -374.59 | 0.00 | 374.59 | 3,318.04 | 1,659.02 | 5,107.98 | 2,557.79 | 3.79 | -0.53 | 0.108 |
| 72.00 | -85.19 | -5.56 | 0.00 | -369.01 | 0.00 | 369.01 | 3,300.52 | 1,650.26 | 5,051.01 | 2,529.26 | 3.90 | -0.54 | 0.107 |
| 73.00 | -84.45 | -5.55 | 0.00 | -363.44 | 0.00 | 363.44 | 3,281.11 | 1,640.56 | 4,991.50 | 2,499.46 | 4.01 | -0.55 | 0.107 |
| 74.00 | -83.71 | -5.53 | 0.00 | -357.90 | 0.00 | 357.90 | 3,261.71 | 1,630.85 | 4,932.34 | 2,469.84 | 4.13 | -0.55 | 0.106 |
| 75.00 | -82.97 | -5.51 | 0.00 | -352.37 | 0.00 | 352.37 | 3,242.30 | 1,621.15 | 4,873.54 | 2,440.39 | 4.24 | -0.56 | 0.106 |
| 76.00 | -82.23 | -5.49 | 0.00 | -346.87 | 0.00 | 346.87 | 3,222.90 | 1,611.45 | 4,815.08 | 2,411.12 | 4.36 | -0.57 | 0.105 |
| 77.00 | -81.49 | -5.47 | 0.00 | -341.38 | 0.00 | 341.38 | 3,203.49 | 1,601.75 | 4,756.98 | 2,382.03 | 4.48 | -0.58 | 0.104 |
| 78.00 | -80.76 | -5.45 | 0.00 | -335.91 | 0.00 | 335.91 | 3,184.09 | 1,592.04 | 4,699.23 | 2,353.11 | 4.60 | -0.59 | 0.103 |
| 79.00 | -80.00 | -5.42 | 0.00 | -330.47 | 0.00 | 330.47 | 3,164.68 | 1,582.34 | 4,641.84 | 2,324.37 | 4.73 | -0.59 | 0.103 |
| 80.00 | -79.27 | -5.40 | 0.00 | -325.04 | 0.00 | 325.04 | 3,145.28 | 1,572.64 | 4,584.79 | 2,295.80 | 4.85 | -0.60 | 0.102 |
| 81.00 | -78.53 | -5.38 | 0.00 | -319.64 | 0.00 | 319.64 | 3,125.87 | 1,562.94 | 4,528.10 | 2,267.42 | 4.98 | -0.61 | 0.101 |
| 82.00 | -77.80 | -5.36 | 0.00 | -314.26 | 0.00 | 314.26 | 3,106.47 | 1,553.24 | 4,471.77 | 2,239.21 | 5.11 | -0.62 | 0.101 |
| 83.00 | -77.07 | -5.34 | 0.00 | -308.90 | 0.00 | 308.90 | 3,087.07 | 1,543.53 | 4,415.78 | 2,211.17 | 5.24 | -0.63 | 0.100 |
| 84.00 | -76.35 | -5.32 | 0.00 | -303.56 | 0.00 | 303.56 | 3,067.66 | 1,533.83 | 4,360.15 | 2,183.32 | 5.37 | -0.64 | 0.099 |
| 85.00 | -75.62 | -5.30 | 0.00 | -298.24 | 0.00 | 298.24 | 3,048.26 | 1,524.13 | 4,304.87 | 2,155.63 | 5.51 | -0.64 | 0.098 |
| 86.00 | -74.89 | -5.28 | 0.00 | -292.94 | 0.00 | 292.94 | 3,028.85 | 1,514.43 | 4,249.94 | 2,128.13 | 5.64 | -0.65 | 0.097 |
| 87.00 | -74.17 | -5.26 | 0.00 | -287.66 | 0.00 | 287.66 | 3,009.45 | 1,504.72 | 4,195.37 | 2,100.80 | 5.78 | -0.66 | 0.097 |
| 87.54 | -73.78 | -5.24 | 0.00 | -284.83 | 0.00 | 284.83 | 2,998.97 | 1,499.48 | 4,166.05 | 2,086.12 | 5.85 | -0.66 | 0.096 |
| 88.00 | -73.38 | -5.23 | 0.00 | -282.41 | 0.00 | 282.41 | 2,990.04 | 1,495.02 | 4,141.15 | 2,073.65 | 5.92 | -0.67 | 0.095 |
| 89.00 | -72.52 | -5.21 | 0.00 | -277.18 | 0.00 | 277.18 | 2,970.64 | 1,485.32 | 4,087.28 | 2,046.68 | 6.06 | -0.68 | 0.094 |
| 90.00 | -71.66 | -5.18 | 0.00 | -271.98 | 0.00 | 271.98 | 2,951.23 | 1,475.62 | 4,033.76 | 2,019.88 | 6.20 | -0.68 | 0.093 |
| 91.00 | -70.80 | -5.16 | 0.00 | -266.80 | 0.00 | 266.80 | 2,931.83 | 1,465.91 | 3,980.60 | 1,993.26 | 6.35 | -0.69 | 0.092 |
| 92.00 | -69.95 | -5.13 | 0.00 | -261.64 | 0.00 | 261.64 | 2,912.42 | 1,456.21 | 3,927.79 | 1,966.81 | 6.49 | -0.70 | 0.091 |
| 92.46 | -69.56 | -5.12 | 0.00 | -259.30 | 0.00 | 259.30 | 2,424.49 | 1,212.24 | 3,334.85 | 1,669.90 | 6.56 | -0.70 | 0.101 |
| 93.00 | -69.18 | -5.11 | 0.00 | -256.52 | 0.00 | 256.52 | 2,418.22 | 1,209.11 | 3,314.29 | 1,659.61 | 6.64 | -0.71 | 0.101 |
| 94.00 | -68.49 | -5.08 | 0.00 | -251.41 | 0.00 | 251.41 | 2,406.65 | 1,203.32 | 3,276.56 | 1,640.72 | 6.79 | -0.71 | 0.099 |
| 95.00 | -67.80 | -5.06 | 0.00 | -246.33 | 0.00 | 246.33 | 2,395.02 | 1,197.51 | 3,238.97 | 1,621.89 | 6.94 | -0.72 | 0.098 |
| 96.00 | -66.13 | -4.91 | 0.00 | -241.27 | 0.00 | 241.27 | 2,383.33 | 1,191.67 | 3,201.50 | 1,603.13 | 7.09 | -0.73 | 0.097 |
| 97.00 | -65.44 | -4.89 | 0.00 | -236.35 | 0.00 | 236.35 | 2,371.59 | 1,185.79 | 3,164.18 | 1,584.44 | 7.24 | -0.74 | 0.096 |
| 98.00 | -64.76 | -4.87 | 0.00 | -231.46 | 0.00 | 231.46 | 2,359.79 | 1,179.89 | 3,126.99 | 1,565.82 | 7.40 | -0.75 | 0.094 |
| 99.00 | -64.07 | -4.84 | 0.00 | -226.60 | 0.00 | 226.60 | 2,347.93 | 1,173.97 | 3,089.94 | 1,547.27 | 7.56 | -0.76 | 0.093 |
| 100.00 | -63.39 | -4.82 | 0.00 | -221.76 | 0.00 | 221.76 | 2,336.02 | 1,168.01 | 3,053.03 | 1,528.79 | 7.72 | -0.76 | 0.092 |
| 101.00 | -62.71 | -4.79 | 0.00 | -216.94 | 0.00 | 216.94 | 2,324.05 | 1,162.02 | 3,016.27 | 1,510.38 | 7.88 | -0.77 | 0.091 |
| 102.00 | -62.02 | -4.77 | 0.00 | -212.15 | 0.00 | 212.15 | 2,312.02 | 1,156.01 | 2,979.65 | 1,492.04 | 8.04 | -0.78 | 0.090 |
| 103.00 | -61.34 | -4.74 | 0.00 | -207.38 | 0.00 | 207.38 | 2,299.80 | 1,149.90 | 2,943.01 | 1,473.69 | 8.20 | -0.79 | 0.088 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:26 PM

Customer: AT&T MOBILITY

| | | |
|--|--------------------------------|-------------------------------|
| Load Case: 1.2D + 1.0Di + 1.0Wi | 40 mph with 1.00 in Radial Ice | 34 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 : 1.25 |
| Wind Load Factor : 1.00 | | |

| | | | | | | | | | | | | | |
|--------|--------|-------|------|---------|------|--------|----------|----------|----------|----------|-------|-------|-------|
| 103.75 | -60.83 | -4.73 | 0.00 | -203.83 | 0.00 | 203.83 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 8.33 | -0.79 | 0.088 |
| 103.75 | -60.83 | -4.73 | 0.00 | -203.83 | 0.00 | 203.83 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 8.33 | -0.79 | 0.166 |
| 104.00 | -60.68 | -4.72 | 0.00 | -202.65 | 0.00 | 202.65 | 2,283.63 | 1,141.82 | 2,901.57 | 1,452.94 | 8.37 | -0.80 | 0.166 |
| 105.00 | -59.32 | -4.63 | 0.00 | -197.93 | 0.00 | 197.93 | 2,267.46 | 1,133.73 | 2,860.42 | 1,432.33 | 8.54 | -0.81 | 0.164 |
| 106.00 | -58.77 | -4.61 | 0.00 | -193.30 | 0.00 | 193.30 | 2,251.29 | 1,125.65 | 2,819.56 | 1,411.88 | 8.71 | -0.83 | 0.163 |
| 107.00 | -58.21 | -4.60 | 0.00 | -188.68 | 0.00 | 188.68 | 2,235.12 | 1,117.56 | 2,779.00 | 1,391.56 | 8.89 | -0.84 | 0.162 |
| 108.00 | -57.66 | -4.58 | 0.00 | -184.09 | 0.00 | 184.09 | 2,218.95 | 1,109.48 | 2,738.73 | 1,371.40 | 9.06 | -0.86 | 0.160 |
| 109.00 | -57.12 | -4.56 | 0.00 | -179.51 | 0.00 | 179.51 | 2,202.78 | 1,101.39 | 2,698.75 | 1,351.38 | 9.24 | -0.87 | 0.159 |
| 110.00 | -56.57 | -4.55 | 0.00 | -174.94 | 0.00 | 174.94 | 2,186.61 | 1,093.30 | 2,659.07 | 1,331.51 | 9.43 | -0.89 | 0.157 |
| 111.00 | -56.02 | -4.53 | 0.00 | -170.40 | 0.00 | 170.40 | 2,170.44 | 1,085.22 | 2,619.69 | 1,311.79 | 9.62 | -0.90 | 0.156 |
| 112.00 | -50.14 | -4.05 | 0.00 | -165.87 | 0.00 | 165.87 | 2,154.27 | 1,077.13 | 2,580.59 | 1,292.21 | 9.81 | -0.92 | 0.152 |
| 113.00 | -49.71 | -4.04 | 0.00 | -161.82 | 0.00 | 161.82 | 2,138.10 | 1,069.05 | 2,541.79 | 1,272.79 | 10.00 | -0.93 | 0.150 |
| 114.00 | -49.31 | -4.02 | 0.00 | -157.78 | 0.00 | 157.78 | 2,121.93 | 1,060.96 | 2,503.29 | 1,253.50 | 10.20 | -0.95 | 0.149 |
| 115.00 | -48.92 | -4.01 | 0.00 | -153.76 | 0.00 | 153.76 | 2,105.76 | 1,052.88 | 2,465.08 | 1,234.37 | 10.40 | -0.96 | 0.148 |
| 116.00 | -48.54 | -3.99 | 0.00 | -149.75 | 0.00 | 149.75 | 2,089.59 | 1,044.79 | 2,427.16 | 1,215.38 | 10.60 | -0.98 | 0.146 |
| 117.00 | -48.15 | -3.97 | 0.00 | -145.76 | 0.00 | 145.76 | 2,073.42 | 1,036.71 | 2,389.54 | 1,196.54 | 10.80 | -0.99 | 0.145 |
| 118.00 | -47.77 | -3.95 | 0.00 | -141.79 | 0.00 | 141.79 | 2,057.25 | 1,028.62 | 2,352.21 | 1,177.85 | 11.01 | -1.00 | 0.144 |
| 119.00 | -47.38 | -3.93 | 0.00 | -137.84 | 0.00 | 137.84 | 2,041.07 | 1,020.54 | 2,315.17 | 1,159.31 | 11.23 | -1.02 | 0.142 |
| 120.00 | -47.00 | -3.92 | 0.00 | -133.91 | 0.00 | 133.91 | 2,024.90 | 1,012.45 | 2,278.43 | 1,140.91 | 11.44 | -1.03 | 0.141 |
| 121.00 | -46.62 | -3.90 | 0.00 | -129.99 | 0.00 | 129.99 | 2,008.73 | 1,004.37 | 2,241.98 | 1,122.66 | 11.66 | -1.05 | 0.139 |
| 122.00 | -46.24 | -3.88 | 0.00 | -126.09 | 0.00 | 126.09 | 1,992.56 | 996.28 | 2,205.83 | 1,104.55 | 11.88 | -1.06 | 0.137 |
| 123.00 | -45.86 | -3.86 | 0.00 | -122.22 | 0.00 | 122.22 | 1,976.39 | 988.20 | 2,169.97 | 1,086.60 | 12.10 | -1.08 | 0.136 |
| 124.00 | -45.49 | -3.84 | 0.00 | -118.36 | 0.00 | 118.36 | 1,960.22 | 980.11 | 2,134.40 | 1,068.79 | 12.33 | -1.09 | 0.134 |
| 125.00 | -38.86 | -3.32 | 0.00 | -114.52 | 0.00 | 114.52 | 1,944.05 | 972.03 | 2,099.13 | 1,051.12 | 12.56 | -1.11 | 0.129 |
| 126.00 | -38.53 | -3.31 | 0.00 | -111.20 | 0.00 | 111.20 | 1,927.88 | 963.94 | 2,064.15 | 1,033.61 | 12.79 | -1.12 | 0.128 |
| 127.00 | -38.20 | -3.30 | 0.00 | -107.89 | 0.00 | 107.89 | 1,911.71 | 955.86 | 2,029.46 | 1,016.24 | 13.03 | -1.13 | 0.126 |
| 128.00 | -37.88 | -3.29 | 0.00 | -104.59 | 0.00 | 104.59 | 1,895.54 | 947.77 | 1,995.07 | 999.02 | 13.27 | -1.15 | 0.125 |
| 129.00 | -37.56 | -3.28 | 0.00 | -101.30 | 0.00 | 101.30 | 1,879.37 | 939.68 | 1,960.98 | 981.95 | 13.51 | -1.16 | 0.123 |
| 130.00 | -37.24 | -3.26 | 0.00 | -98.02 | 0.00 | 98.02 | 1,863.20 | 931.60 | 1,927.17 | 965.02 | 13.76 | -1.17 | 0.122 |
| 131.00 | -36.92 | -3.25 | 0.00 | -94.76 | 0.00 | 94.76 | 1,847.03 | 923.51 | 1,893.66 | 948.24 | 14.00 | -1.19 | 0.120 |
| 132.00 | -36.60 | -3.24 | 0.00 | -91.51 | 0.00 | 91.51 | 1,830.86 | 915.43 | 1,860.45 | 931.61 | 14.25 | -1.20 | 0.118 |
| 132.12 | -36.56 | -3.24 | 0.00 | -91.12 | 0.00 | 91.12 | 1,828.92 | 914.46 | 1,856.49 | 929.63 | 14.28 | -1.20 | 0.118 |
| 133.00 | -36.23 | -3.23 | 0.00 | -88.27 | 0.00 | 88.27 | 1,814.69 | 907.34 | 1,827.53 | 915.12 | 14.51 | -1.21 | 0.116 |
| 134.00 | -35.85 | -3.21 | 0.00 | -85.04 | 0.00 | 85.04 | 1,798.52 | 899.26 | 1,794.90 | 898.78 | 14.76 | -1.23 | 0.115 |
| 135.00 | -26.80 | -2.53 | 0.00 | -81.83 | 0.00 | 81.83 | 1,782.35 | 891.17 | 1,762.57 | 882.59 | 15.02 | -1.24 | 0.108 |
| 135.87 | -26.48 | -2.52 | 0.00 | -79.63 | 0.00 | 79.63 | 999.39 | 499.70 | 1,006.16 | 503.83 | 15.25 | -1.25 | 0.185 |
| 136.00 | -26.45 | -2.52 | 0.00 | -79.30 | 0.00 | 79.30 | 998.64 | 499.32 | 1,004.22 | 502.86 | 15.28 | -1.25 | 0.184 |
| 137.00 | -26.18 | -2.51 | 0.00 | -76.78 | 0.00 | 76.78 | 992.83 | 496.42 | 989.37 | 495.42 | 15.55 | -1.27 | 0.181 |
| 138.00 | -25.91 | -2.50 | 0.00 | -74.27 | 0.00 | 74.27 | 986.97 | 493.49 | 974.56 | 488.00 | 15.82 | -1.29 | 0.178 |
| 139.00 | -25.64 | -2.49 | 0.00 | -71.77 | 0.00 | 71.77 | 981.05 | 490.53 | 959.80 | 480.61 | 16.09 | -1.31 | 0.175 |
| 140.00 | -22.47 | -2.10 | 0.00 | -67.45 | 0.00 | 67.45 | 975.08 | 487.54 | 945.09 | 473.25 | 16.37 | -1.33 | 0.166 |
| 141.00 | -22.21 | -2.09 | 0.00 | -65.35 | 0.00 | 65.35 | 969.05 | 484.52 | 930.44 | 465.91 | 16.65 | -1.35 | 0.163 |
| 142.00 | -21.96 | -2.08 | 0.00 | -63.26 | 0.00 | 63.26 | 962.96 | 481.48 | 915.84 | 458.60 | 16.93 | -1.37 | 0.161 |
| 143.00 | -21.70 | -2.06 | 0.00 | -61.19 | 0.00 | 61.19 | 956.81 | 478.41 | 901.30 | 451.32 | 17.22 | -1.39 | 0.158 |
| 144.00 | -21.45 | -2.05 | 0.00 | -59.13 | 0.00 | 59.13 | 950.61 | 475.30 | 886.82 | 444.07 | 17.52 | -1.41 | 0.156 |
| 145.00 | -21.19 | -2.04 | 0.00 | -57.08 | 0.00 | 57.08 | 944.35 | 472.17 | 872.40 | 436.85 | 17.81 | -1.43 | 0.153 |
| 146.00 | -20.94 | -2.02 | 0.00 | -55.04 | 0.00 | 55.04 | 938.03 | 469.01 | 858.03 | 429.66 | 18.11 | -1.45 | 0.150 |
| 147.00 | -20.69 | -2.01 | 0.00 | -53.01 | 0.00 | 53.01 | 931.66 | 465.83 | 843.74 | 422.50 | 18.42 | -1.47 | 0.148 |
| 148.00 | -20.44 | -2.00 | 0.00 | -51.00 | 0.00 | 51.00 | 925.22 | 462.61 | 829.51 | 415.37 | 18.73 | -1.48 | 0.145 |
| 149.00 | -20.19 | -1.98 | 0.00 | -49.01 | 0.00 | 49.01 | 918.73 | 459.37 | 815.34 | 408.28 | 19.04 | -1.50 | 0.142 |
| 150.00 | -19.61 | -1.90 | 0.00 | -47.02 | 0.00 | 47.02 | 912.19 | 456.09 | 801.24 | 401.22 | 19.36 | -1.52 | 0.139 |
| 151.00 | -19.37 | -1.88 | 0.00 | -45.12 | 0.00 | 45.12 | 905.59 | 452.79 | 787.21 | 394.19 | 19.68 | -1.54 | 0.136 |
| 152.00 | -19.12 | -1.87 | 0.00 | -43.24 | 0.00 | 43.24 | 898.93 | 449.46 | 773.25 | 387.20 | 20.00 | -1.56 | 0.133 |
| 153.00 | -18.88 | -1.86 | 0.00 | -41.37 | 0.00 | 41.37 | 892.21 | 446.10 | 759.37 | 380.25 | 20.33 | -1.57 | 0.130 |
| 154.00 | -18.64 | -1.84 | 0.00 | -39.51 | 0.00 | 39.51 | 885.44 | 442.72 | 745.56 | 373.33 | 20.66 | -1.59 | 0.127 |
| 155.00 | -18.40 | -1.83 | 0.00 | -37.67 | 0.00 | 37.67 | 878.60 | 439.30 | 731.82 | 366.45 | 21.00 | -1.61 | 0.124 |
| 156.00 | -18.16 | -1.81 | 0.00 | -35.84 | 0.00 | 35.84 | 871.72 | 435.86 | 718.16 | 359.61 | 21.33 | -1.62 | 0.121 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:27 PM

Customer: AT&T MOBILITY

Load Case: 1.2D + 1.0Di + 1.0Wi

40 mph with 1.00 in Radial Ice

34 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 : 1.25

Wind Load Factor : 1.00

| | | | | | | | | | | | | | |
|--------|--------|-------|------|--------|------|-------|--------|--------|--------|--------|-------|-------|-------|
| 157.00 | -17.92 | -1.80 | 0.00 | -34.03 | 0.00 | 34.03 | 864.77 | 432.39 | 704.58 | 352.81 | 21.68 | -1.64 | 0.117 |
| 158.00 | -17.68 | -1.79 | 0.00 | -32.23 | 0.00 | 32.23 | 857.77 | 428.88 | 691.08 | 346.05 | 22.02 | -1.66 | 0.114 |
| 159.00 | -17.45 | -1.77 | 0.00 | -30.45 | 0.00 | 30.45 | 850.71 | 425.35 | 677.66 | 339.34 | 22.37 | -1.67 | 0.110 |
| 160.00 | -17.21 | -1.76 | 0.00 | -28.67 | 0.00 | 28.67 | 843.59 | 421.80 | 664.33 | 332.66 | 22.72 | -1.69 | 0.107 |
| 161.00 | -16.98 | -1.74 | 0.00 | -26.92 | 0.00 | 26.92 | 836.42 | 418.21 | 651.08 | 326.02 | 23.08 | -1.70 | 0.103 |
| 162.00 | -16.75 | -1.72 | 0.00 | -25.18 | 0.00 | 25.18 | 829.19 | 414.59 | 637.92 | 319.43 | 23.43 | -1.72 | 0.099 |
| 163.00 | -16.52 | -1.70 | 0.00 | -23.47 | 0.00 | 23.47 | 819.85 | 409.92 | 623.28 | 312.10 | 23.80 | -1.73 | 0.095 |
| 164.00 | -16.29 | -1.68 | 0.00 | -21.77 | 0.00 | 21.77 | 810.15 | 405.07 | 608.54 | 304.72 | 24.16 | -1.74 | 0.092 |
| 165.00 | -16.06 | -1.66 | 0.00 | -20.09 | 0.00 | 20.09 | 800.44 | 400.22 | 593.98 | 297.43 | 24.53 | -1.76 | 0.088 |
| 166.00 | -15.84 | -1.64 | 0.00 | -18.43 | 0.00 | 18.43 | 790.74 | 395.37 | 579.60 | 290.23 | 24.89 | -1.77 | 0.084 |
| 167.00 | -11.17 | -1.17 | 0.00 | -16.80 | 0.00 | 16.80 | 781.04 | 390.52 | 565.39 | 283.11 | 25.27 | -1.78 | 0.074 |
| 168.00 | -11.03 | -1.15 | 0.00 | -15.63 | 0.00 | 15.63 | 771.34 | 385.67 | 551.35 | 276.09 | 25.64 | -1.79 | 0.071 |
| 169.00 | -10.89 | -1.14 | 0.00 | -14.48 | 0.00 | 14.48 | 761.63 | 380.82 | 537.50 | 269.15 | 26.02 | -1.80 | 0.068 |
| 170.00 | -10.75 | -1.12 | 0.00 | -13.34 | 0.00 | 13.34 | 751.93 | 375.97 | 523.82 | 262.30 | 26.40 | -1.81 | 0.065 |
| 171.00 | -10.61 | -1.11 | 0.00 | -12.22 | 0.00 | 12.22 | 742.23 | 371.11 | 510.32 | 255.54 | 26.78 | -1.82 | 0.062 |
| 172.00 | -10.47 | -1.10 | 0.00 | -11.11 | 0.00 | 11.11 | 732.53 | 366.26 | 496.99 | 248.86 | 27.16 | -1.83 | 0.059 |
| 173.00 | -10.34 | -1.08 | 0.00 | -10.02 | 0.00 | 10.02 | 722.82 | 361.41 | 483.84 | 242.28 | 27.54 | -1.84 | 0.056 |
| 174.00 | -10.20 | -1.07 | 0.00 | -8.93 | 0.00 | 8.93 | 713.12 | 356.56 | 470.86 | 235.78 | 27.93 | -1.85 | 0.052 |
| 175.00 | -10.07 | -1.05 | 0.00 | -7.87 | 0.00 | 7.87 | 703.42 | 351.71 | 458.07 | 229.37 | 28.32 | -1.86 | 0.049 |
| 176.00 | -9.94 | -1.04 | 0.00 | -6.81 | 0.00 | 6.81 | 693.72 | 346.86 | 445.44 | 223.05 | 28.71 | -1.86 | 0.045 |
| 177.00 | -9.81 | -1.03 | 0.00 | -5.77 | 0.00 | 5.77 | 684.02 | 342.01 | 433.00 | 216.82 | 29.10 | -1.87 | 0.041 |
| 178.00 | -9.68 | -1.01 | 0.00 | -4.75 | 0.00 | 4.75 | 674.31 | 337.16 | 420.73 | 210.68 | 29.49 | -1.87 | 0.037 |
| 179.00 | -9.55 | -1.00 | 0.00 | -3.74 | 0.00 | 3.74 | 664.61 | 332.31 | 408.64 | 204.62 | 29.88 | -1.88 | 0.033 |
| 180.00 | 0.00 | -0.68 | 0.00 | -2.74 | 0.00 | 2.74 | 654.91 | 327.45 | 396.72 | 198.65 | 30.28 | -1.88 | 0.014 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:27 PM

Customer: AT&T MOBILITY

Load Case: 1.0D + 1.0W

Serviceability 60 mph

33 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

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 | | 11.2 | 0.0 | | | | | 0.0 | 0.0 | 11.2 | 0.0 | 0.0 | 0.0 |
| 1.00 | | 22.4 | 246.7 | | | | | 0.0 | 170.6 | 22.4 | 417.3 | 0.0 | 0.0 |
| 2.00 | | 22.3 | 245.6 | | | | | 0.0 | 170.6 | 22.3 | 416.3 | 0.0 | 0.0 |
| 3.00 | | 22.2 | 244.6 | | | | | 0.0 | 170.6 | 22.2 | 415.2 | 0.0 | 0.0 |
| 4.00 | | 22.1 | 243.5 | | | | | 0.0 | 170.6 | 22.1 | 414.2 | 0.0 | 0.0 |
| 5.00 | | 22.0 | 242.5 | | | | | 0.0 | 170.6 | 22.0 | 413.1 | 0.0 | 0.0 |
| 6.00 | | 21.9 | 241.5 | | | | | 0.0 | 170.6 | 21.9 | 412.1 | 0.0 | 0.0 |
| 7.00 | | 21.8 | 240.4 | | | | | 0.0 | 170.6 | 21.8 | 411.1 | 0.0 | 0.0 |
| 8.00 | | 21.7 | 239.4 | | | | | 0.0 | 170.6 | 21.7 | 410.0 | 0.0 | 0.0 |
| 9.00 | | 21.7 | 238.4 | | | | | 0.0 | 170.6 | 21.7 | 409.0 | 0.0 | 0.0 |
| 10.00 | | 21.6 | 237.3 | | | | | 0.0 | 170.6 | 21.6 | 408.0 | 0.0 | 0.0 |
| 11.00 | | 21.5 | 236.3 | | | | | 0.0 | 170.6 | 21.5 | 406.9 | 0.0 | 0.0 |
| 12.00 | | 21.4 | 235.3 | | | | | 0.0 | 170.6 | 21.4 | 405.9 | 0.0 | 0.0 |
| 13.00 | | 21.3 | 234.2 | | | | | 0.0 | 170.6 | 21.3 | 404.9 | 0.0 | 0.0 |
| 14.00 | | 21.2 | 233.2 | | | | | 0.0 | 170.6 | 21.2 | 403.8 | 0.0 | 0.0 |
| 15.00 | | 21.1 | 232.1 | | | | | 0.0 | 170.6 | 21.1 | 402.8 | 0.0 | 0.0 |
| 16.00 | | 21.0 | 231.1 | | | | | 0.0 | 170.6 | 21.0 | 401.7 | 0.0 | 0.0 |
| 17.00 | | 20.9 | 230.1 | | | | | 0.0 | 170.6 | 20.9 | 400.7 | 0.0 | 0.0 |
| 18.00 | | 20.8 | 229.0 | | | | | 0.0 | 170.6 | 20.8 | 399.7 | 0.0 | 0.0 |
| 19.00 | | 20.7 | 228.0 | | | | | 0.0 | 170.6 | 20.7 | 398.6 | 0.0 | 0.0 |
| 20.00 | | 20.6 | 227.0 | | | | | 0.0 | 170.6 | 20.6 | 397.6 | 0.0 | 0.0 |
| 21.00 | | 20.5 | 225.9 | | | | | 0.0 | 170.6 | 20.5 | 396.6 | 0.0 | 0.0 |
| 22.00 | | 20.4 | 224.9 | | | | | 0.0 | 170.6 | 20.4 | 395.5 | 0.0 | 0.0 |
| 23.00 | | 20.3 | 223.8 | | | | | 0.0 | 170.6 | 20.3 | 394.5 | 0.0 | 0.0 |
| 24.00 | | 20.2 | 222.8 | | | | | 0.0 | 170.6 | 20.2 | 393.4 | 0.0 | 0.0 |
| 25.00 | | 20.2 | 221.8 | | | | | 0.0 | 170.6 | 20.2 | 392.4 | 0.0 | 0.0 |
| 26.00 | | 20.1 | 220.7 | | | | | 0.0 | 170.6 | 20.1 | 391.4 | 0.0 | 0.0 |
| 27.00 | | 20.0 | 219.7 | | | | | 0.0 | 170.6 | 20.0 | 390.3 | 0.0 | 0.0 |
| 28.00 | | 19.9 | 218.7 | | | | | 0.0 | 170.6 | 19.9 | 389.3 | 0.0 | 0.0 |
| 29.00 | | 19.8 | 217.6 | | | | | 0.0 | 170.6 | 19.8 | 388.3 | 0.0 | 0.0 |
| 30.00 | Appertunance(s) | 19.7 | 216.6 | 7.8 | 0.0 | 0.0 | 10.0 | 0.0 | 170.6 | 27.5 | 397.2 | 0.0 | 0.0 |
| 31.00 | | 19.8 | 215.6 | | | | | 0.0 | 170.3 | 19.8 | 385.9 | 0.0 | 0.0 |
| 32.00 | | 19.9 | 214.5 | | | | | 0.0 | 170.3 | 19.9 | 384.8 | 0.0 | 0.0 |
| 33.00 | | 20.0 | 213.5 | | | | | 0.0 | 170.3 | 20.0 | 383.8 | 0.0 | 0.0 |
| 34.00 | | 20.0 | 212.4 | | | | | 0.0 | 170.3 | 20.0 | 382.7 | 0.0 | 0.0 |
| 35.00 | | 20.1 | 211.4 | | | | | 0.0 | 170.3 | 20.1 | 381.7 | 0.0 | 0.0 |
| 36.00 | | 20.2 | 210.4 | | | | | 0.0 | 170.3 | 20.2 | 380.7 | 0.0 | 0.0 |
| 37.00 | | 20.2 | 209.3 | | | | | 0.0 | 170.3 | 20.2 | 379.6 | 0.0 | 0.0 |
| 38.00 | | 20.3 | 208.3 | | | | | 0.0 | 170.3 | 20.3 | 378.6 | 0.0 | 0.0 |
| 39.00 | | 20.3 | 207.3 | | | | | 0.0 | 170.3 | 20.3 | 377.6 | 0.0 | 0.0 |
| 40.00 | | 20.4 | 206.2 | | | | | 0.0 | 170.3 | 20.4 | 376.5 | 0.0 | 0.0 |
| 41.00 | | 20.4 | 205.2 | | | | | 0.0 | 170.3 | 20.4 | 375.5 | 0.0 | 0.0 |
| 42.00 | | 20.0 | 204.1 | | | | | 0.0 | 170.3 | 20.0 | 374.5 | 0.0 | 0.0 |
| 42.96 | Bot - Section 2 | 10.2 | 194.3 | | | | | 0.0 | 162.9 | 10.2 | 357.2 | 0.0 | 0.0 |
| 43.00 | | 10.9 | 16.5 | | | | | 0.0 | 7.4 | 10.9 | 23.9 | 0.0 | 0.0 |
| 44.00 | | 20.9 | 378.6 | | | | | 0.0 | 170.3 | 20.9 | 548.9 | 0.0 | 0.0 |
| 45.00 | | 20.9 | 376.6 | | | | | 0.0 | 170.3 | 20.9 | 546.9 | 0.0 | 0.0 |
| 46.00 | | 20.9 | 374.7 | | | | | 0.0 | 170.3 | 20.9 | 545.0 | 0.0 | 0.0 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:45 PM

Customer: AT&T MOBILITY

| | | | | | | | | |
|-------------------------------|------------------------------|--|--|--|-------------------------------|--|--|--|
| Load Case: 1.0D + 1.0W | Serviceability 60 mph | | | | 33 Iterations | | | |
| Gust Response Factor : 1.10 | | | | | Wind Importance Factor : 1.15 | | | |
| Dead Load Factor : 1.00 | | | | | | | | |
| Wind Load Factor : 1.00 | | | | | | | | |

| | | | | | | | | | | | | | |
|--------|-----------------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-----|-----|
| 47.00 | 21.0 | 372.8 | | | | | 0.0 | 170.3 | 21.0 | 543.1 | 0.0 | 0.0 | |
| 48.00 | 21.0 | 370.9 | | | | | 0.0 | 170.3 | 21.0 | 541.2 | 0.0 | 0.0 | |
| 49.00 | 10.9 | 368.9 | | | | | 0.0 | 170.3 | 10.9 | 539.2 | 0.0 | 0.0 | |
| 49.04 | Top - Section 1 | 10.5 | 14.7 | | | | 0.0 | 6.8 | 10.5 | 21.5 | 0.0 | 0.0 | |
| 50.00 | | 20.6 | 164.3 | | | | 0.0 | 163.5 | 20.6 | 327.8 | 0.0 | 0.0 | |
| 51.00 | | 21.0 | 170.3 | | | | 0.0 | 170.3 | 21.0 | 340.6 | 0.0 | 0.0 | |
| 52.00 | | 21.0 | 169.4 | | | | 0.0 | 170.3 | 21.0 | 339.7 | 0.0 | 0.0 | |
| 53.00 | | 21.0 | 168.5 | | | | 0.0 | 170.3 | 21.0 | 338.8 | 0.0 | 0.0 | |
| 54.00 | | 21.0 | 167.6 | | | | 0.0 | 170.3 | 21.0 | 337.9 | 0.0 | 0.0 | |
| 55.00 | | 21.0 | 166.7 | | | | 0.0 | 170.3 | 21.0 | 337.0 | 0.0 | 0.0 | |
| 56.00 | | 21.0 | 165.8 | | | | 0.0 | 170.3 | 21.0 | 336.1 | 0.0 | 0.0 | |
| 57.00 | | 21.0 | 164.9 | | | | 0.0 | 170.3 | 21.0 | 335.2 | 0.0 | 0.0 | |
| 58.00 | | 21.0 | 164.1 | | | | 0.0 | 170.3 | 21.0 | 334.4 | 0.0 | 0.0 | |
| 59.00 | | 21.0 | 163.2 | | | | 0.0 | 170.3 | 21.0 | 333.5 | 0.0 | 0.0 | |
| 60.00 | | 21.0 | 162.3 | | | | 0.0 | 170.3 | 21.0 | 332.6 | 0.0 | 0.0 | |
| 61.00 | | 21.0 | 161.4 | | | | 0.0 | 170.3 | 21.0 | 331.7 | 0.0 | 0.0 | |
| 62.00 | | 21.0 | 160.5 | | | | 0.0 | 170.3 | 21.0 | 330.8 | 0.0 | 0.0 | |
| 63.00 | | 20.9 | 159.6 | | | | 0.0 | 170.3 | 20.9 | 329.9 | 0.0 | 0.0 | |
| 64.00 | | 29.7 | 158.7 | | | | 0.0 | 170.3 | 29.7 | 329.0 | 0.0 | 0.0 | |
| 65.00 | | 38.6 | 157.8 | | | | 7.7 | 170.3 | 46.3 | 328.1 | 0.0 | 0.0 | |
| 66.00 | | 38.5 | 156.9 | | | | 7.8 | 170.3 | 46.3 | 327.2 | 0.0 | 0.0 | |
| 67.00 | | 38.5 | 156.1 | | | | 7.8 | 170.3 | 46.2 | 326.4 | 0.0 | 0.0 | |
| 68.00 | | 38.4 | 155.2 | | | | 7.8 | 170.3 | 46.2 | 325.5 | 0.0 | 0.0 | |
| 69.00 | | 38.3 | 154.3 | | | | 7.9 | 170.3 | 46.2 | 324.6 | 0.0 | 0.0 | |
| 70.00 | | 38.3 | 153.4 | | | | 7.9 | 170.3 | 46.2 | 323.7 | 0.0 | 0.0 | |
| 71.00 | | 38.2 | 152.5 | | | | 7.9 | 170.3 | 46.1 | 322.8 | 0.0 | 0.0 | |
| 72.00 | | 38.1 | 151.6 | | | | 8.0 | 170.3 | 46.1 | 321.9 | 0.0 | 0.0 | |
| 73.00 | | 38.1 | 150.7 | | | | 8.0 | 170.3 | 46.1 | 321.0 | 0.0 | 0.0 | |
| 74.00 | | 38.0 | 149.8 | | | | 8.0 | 170.3 | 46.0 | 320.1 | 0.0 | 0.0 | |
| 75.00 | | 37.9 | 148.9 | | | | 8.0 | 170.3 | 46.0 | 319.2 | 0.0 | 0.0 | |
| 76.00 | | 37.8 | 148.1 | | | | 8.1 | 170.3 | 45.9 | 318.4 | 0.0 | 0.0 | |
| 77.00 | | 37.8 | 147.2 | | | | 8.1 | 170.3 | 45.9 | 317.5 | 0.0 | 0.0 | |
| 78.00 | | 37.7 | 146.3 | | | | 8.1 | 170.3 | 45.8 | 316.6 | 0.0 | 0.0 | |
| 79.00 | Appertunance(s) | 37.6 | 145.4 | 0.9 | 0.0 | 0.0 | 0.6 | 8.2 | 170.3 | 46.7 | 316.3 | 0.0 | 0.0 |
| 80.00 | | 37.5 | 144.5 | | | | | 8.2 | 170.2 | 45.7 | 314.7 | 0.0 | 0.0 |
| 81.00 | | 37.4 | 143.6 | | | | | 8.2 | 170.2 | 45.6 | 313.8 | 0.0 | 0.0 |
| 82.00 | | 37.3 | 142.7 | | | | | 8.3 | 170.2 | 45.5 | 312.9 | 0.0 | 0.0 |
| 83.00 | | 37.2 | 141.8 | | | | | 8.3 | 170.2 | 45.5 | 312.0 | 0.0 | 0.0 |
| 84.00 | | 37.1 | 140.9 | | | | | 8.3 | 170.2 | 45.4 | 311.1 | 0.0 | 0.0 |
| 85.00 | | 37.0 | 140.1 | | | | | 8.3 | 170.2 | 45.3 | 310.2 | 0.0 | 0.0 |
| 86.00 | | 36.9 | 139.2 | | | | | 8.4 | 170.2 | 45.2 | 309.3 | 0.0 | 0.0 |
| 87.00 | | 28.3 | 138.3 | | | | | 8.4 | 170.2 | 36.7 | 308.4 | 0.0 | 0.0 |
| 87.54 | Bot - Section 3 | 18.5 | 74.3 | | | | | 4.5 | 91.9 | 23.0 | 166.2 | 0.0 | 0.0 |
| 88.00 | | 27.2 | 116.8 | | | | | 3.9 | 78.3 | 31.1 | 195.0 | 0.0 | 0.0 |
| 89.00 | | 37.2 | 252.6 | | | | | 8.5 | 170.2 | 45.6 | 422.7 | 0.0 | 0.0 |
| 90.00 | | 37.1 | 250.9 | | | | | 8.5 | 170.2 | 45.6 | 421.1 | 0.0 | 0.0 |
| 91.00 | | 37.0 | 249.3 | | | | | 8.5 | 170.2 | 45.5 | 419.5 | 0.0 | 0.0 |
| 92.00 | | 26.8 | 247.7 | | | | | 8.5 | 170.2 | 35.4 | 417.8 | 0.0 | 0.0 |
| 92.46 | Top - Section 2 | 18.4 | 112.5 | | | | | 3.9 | 77.7 | 22.3 | 190.2 | 0.0 | 0.0 |
| 93.00 | | 28.3 | 61.4 | | | | | 4.7 | 92.5 | 33.0 | 153.8 | 0.0 | 0.0 |
| 94.00 | | 36.6 | 112.4 | | | | | 8.6 | 170.2 | 45.2 | 282.5 | 0.0 | 0.0 |
| 95.00 | | 36.4 | 111.6 | | | | | 8.6 | 170.2 | 45.1 | 281.8 | 0.0 | 0.0 |
| 96.00 | Appertunance(s) | 36.3 | 110.9 | 157.0 | 0.0 | 0.0 | 486.6 | 8.6 | 170.2 | 201.9 | 767.6 | 0.0 | 0.0 |
| 97.00 | | 36.2 | 110.1 | | | | | 8.7 | 169.3 | 44.8 | 279.5 | 0.0 | 0.0 |
| 98.00 | | 36.0 | 109.4 | | | | | 8.7 | 169.3 | 44.7 | 278.8 | 0.0 | 0.0 |
| 99.00 | | 35.9 | 108.7 | | | | | 8.7 | 169.3 | 44.6 | 278.0 | 0.0 | 0.0 |
| 100.00 | | 35.8 | 107.9 | | | | | 8.7 | 169.3 | 44.5 | 277.3 | 0.0 | 0.0 |

| | | | | | | | | | | |
|-------------------------------|------------------------------|--|--|--|--|--|-------------------------------|--|--|--|
| Load Case: 1.0D + 1.0W | Serviceability 60 mph | | | | | | 33 Iterations | | | |
| Gust Response Factor : 1.10 | | | | | | | Wind Importance Factor : 1.15 | | | |
| Dead Load Factor : 1.00 | | | | | | | | | | |
| Wind Load Factor : 1.00 | | | | | | | | | | |

| | | | | | | | | | | | | | |
|--------|-----------------|------|-------|-------|-----|---------|---------|-----|-------|-------|---------|-----|-----|
| 101.00 | | 35.6 | 107.2 | | | | | 8.8 | 169.3 | 44.4 | 276.5 | 0.0 | 0.0 |
| 102.00 | | 35.5 | 106.4 | | | | | 8.8 | 169.3 | 44.3 | 275.8 | 0.0 | 0.0 |
| 103.00 | | 30.9 | 105.7 | | | | | 8.8 | 169.3 | 39.7 | 275.0 | 0.0 | 0.0 |
| 103.75 | Reinf. Top | 17.6 | 78.8 | | | | | 6.6 | 127.0 | 24.3 | 205.8 | 0.0 | 0.0 |
| 104.00 | | 22.0 | 26.2 | | | | | 2.2 | 25.6 | 24.2 | 51.8 | 0.0 | 0.0 |
| 105.00 | Appertunance(s) | 35.0 | 104.2 | 116.8 | 0.0 | 0.0 | 79.2 | 8.9 | 102.5 | 160.7 | 286.0 | 0.0 | 0.0 |
| 106.00 | | 34.9 | 103.5 | | | | | 8.9 | 97.6 | 43.8 | 201.1 | 0.0 | 0.0 |
| 107.00 | | 34.7 | 102.7 | | | | | 8.9 | 97.6 | 43.6 | 200.4 | 0.0 | 0.0 |
| 108.00 | | 34.6 | 102.0 | | | | | 8.9 | 97.6 | 43.5 | 199.6 | 0.0 | 0.0 |
| 109.00 | | 34.4 | 101.3 | | | | | 9.0 | 97.6 | 43.4 | 198.9 | 0.0 | 0.0 |
| 110.00 | | 34.2 | 100.5 | | | | | 9.0 | 97.6 | 43.2 | 198.1 | 0.0 | 0.0 |
| 111.00 | | 34.1 | 99.8 | | | | | 9.0 | 97.6 | 43.1 | 197.4 | 0.0 | 0.0 |
| 112.00 | Appertunance(s) | 26.2 | 99.0 | 535.2 | 0.0 | 0.0 | 1,668.0 | 9.0 | 97.6 | 570.4 | 1,864.7 | 0.0 | 0.0 |
| 113.00 | | 26.0 | 98.3 | | | | | 0.0 | 68.6 | 26.0 | 166.9 | 0.0 | 0.0 |
| 114.00 | | 33.6 | 97.6 | | | | | 9.0 | 47.1 | 42.6 | 144.6 | 0.0 | 0.0 |
| 115.00 | | 33.4 | 96.8 | | | | | 9.0 | 47.1 | 42.4 | 143.9 | 0.0 | 0.0 |
| 116.00 | | 33.2 | 96.1 | | | | | 9.0 | 47.1 | 42.3 | 143.1 | 0.0 | 0.0 |
| 117.00 | | 33.1 | 95.3 | | | | | 9.1 | 47.1 | 42.1 | 142.4 | 0.0 | 0.0 |
| 118.00 | | 32.9 | 94.6 | | | | | 9.1 | 47.1 | 42.0 | 141.7 | 0.0 | 0.0 |
| 119.00 | | 32.7 | 93.9 | | | | | 9.1 | 47.1 | 41.8 | 140.9 | 0.0 | 0.0 |
| 120.00 | | 32.5 | 93.1 | | | | | 9.1 | 47.1 | 41.7 | 140.2 | 0.0 | 0.0 |
| 121.00 | | 32.4 | 92.4 | | | | | 9.1 | 47.1 | 41.5 | 139.4 | 0.0 | 0.0 |
| 122.00 | | 32.2 | 91.6 | | | | | 9.2 | 47.1 | 41.3 | 138.7 | 0.0 | 0.0 |
| 123.00 | | 32.0 | 90.9 | | | | | 9.2 | 47.1 | 41.2 | 138.0 | 0.0 | 0.0 |
| 124.00 | | 31.8 | 90.2 | | | | | 9.2 | 47.1 | 41.0 | 137.2 | 0.0 | 0.0 |
| 125.00 | Appertunance(s) | 24.4 | 89.4 | 541.3 | 0.0 | 0.0 | 2,125.6 | 9.2 | 47.1 | 574.9 | 2,262.1 | 0.0 | 0.0 |
| 126.00 | | 17.0 | 88.7 | | | | | 0.0 | 40.8 | 17.0 | 129.5 | 0.0 | 0.0 |
| 127.00 | | 16.9 | 87.9 | | | | | 0.0 | 40.8 | 16.9 | 128.8 | 0.0 | 0.0 |
| 128.00 | | 16.8 | 87.2 | | | | | 0.0 | 40.8 | 16.8 | 128.0 | 0.0 | 0.0 |
| 129.00 | | 16.7 | 86.4 | | | | | 0.0 | 40.8 | 16.7 | 127.3 | 0.0 | 0.0 |
| 130.00 | | 16.6 | 85.7 | | | | | 0.0 | 40.8 | 16.6 | 126.6 | 0.0 | 0.0 |
| 131.00 | | 16.5 | 85.0 | | | | | 0.0 | 40.8 | 16.5 | 125.8 | 0.0 | 0.0 |
| 132.00 | | 9.2 | 84.2 | | | | | 0.0 | 40.8 | 9.2 | 125.1 | 0.0 | 0.0 |
| 132.12 | Bot - Section 4 | 8.3 | 10.0 | | | | | 0.0 | 4.9 | 8.3 | 14.9 | 0.0 | 0.0 |
| 133.00 | | 15.5 | 118.4 | | | | | 0.0 | 36.0 | 15.5 | 154.4 | 0.0 | 0.0 |
| 134.00 | | 16.4 | 133.4 | | | | | 0.0 | 40.8 | 16.4 | 174.2 | 0.0 | 0.0 |
| 135.00 | Appertunance(s) | 15.3 | 132.2 | 769.2 | 0.0 | 0.0 | 2,857.1 | 0.0 | 40.8 | 784.4 | 3,030.2 | 0.0 | 0.0 |
| 135.87 | Top - Section 3 | 8.1 | 114.0 | | | | | 0.0 | 32.3 | 8.1 | 146.3 | 0.0 | 0.0 |
| 136.00 | | 9.1 | 6.5 | | | | | 0.0 | 4.8 | 9.1 | 11.3 | 0.0 | 0.0 |
| 137.00 | | 16.1 | 49.3 | | | | | 0.0 | 37.1 | 16.1 | 86.5 | 0.0 | 0.0 |
| 138.00 | | 16.0 | 48.9 | | | | | 0.0 | 37.1 | 16.0 | 86.0 | 0.0 | 0.0 |
| 139.00 | | 15.9 | 48.4 | | | | | 0.0 | 37.1 | 15.9 | 85.6 | 0.0 | 0.0 |
| 140.00 | Appertunance(s) | 15.8 | 48.0 | 331.0 | 0.0 | 1,695.6 | 667.0 | 0.0 | 37.1 | 346.8 | 752.1 | 0.0 | 0.0 |
| 141.00 | | 15.6 | 47.5 | | | | | 0.0 | 31.6 | 15.6 | 79.1 | 0.0 | 0.0 |
| 142.00 | | 15.5 | 47.1 | | | | | 0.0 | 31.6 | 15.5 | 78.7 | 0.0 | 0.0 |
| 143.00 | | 15.4 | 46.7 | | | | | 0.0 | 31.6 | 15.4 | 78.2 | 0.0 | 0.0 |
| 144.00 | | 15.3 | 46.2 | | | | | 0.0 | 31.6 | 15.3 | 77.8 | 0.0 | 0.0 |
| 145.00 | | 15.2 | 45.8 | | | | | 0.0 | 31.6 | 15.2 | 77.4 | 0.0 | 0.0 |
| 146.00 | | 15.1 | 45.3 | | | | | 0.0 | 31.6 | 15.1 | 76.9 | 0.0 | 0.0 |
| 147.00 | | 14.9 | 44.9 | | | | | 0.0 | 31.6 | 14.9 | 76.5 | 0.0 | 0.0 |
| 148.00 | | 14.8 | 44.4 | | | | | 0.0 | 31.6 | 14.8 | 76.0 | 0.0 | 0.0 |
| 149.00 | | 14.7 | 44.0 | | | | | 0.0 | 31.6 | 14.7 | 75.6 | 0.0 | 0.0 |
| 150.00 | Appertunance(s) | 14.6 | 43.5 | 56.3 | 0.0 | 0.0 | 158.3 | 0.0 | 31.6 | 70.9 | 233.4 | 0.0 | 0.0 |
| 151.00 | | 14.5 | 43.1 | | | | | 0.0 | 30.8 | 14.5 | 73.9 | 0.0 | 0.0 |
| 152.00 | | 14.3 | 42.7 | | | | | 0.0 | 30.8 | 14.3 | 73.4 | 0.0 | 0.0 |
| 153.00 | | 14.2 | 42.2 | | | | | 0.0 | 30.8 | 14.2 | 73.0 | 0.0 | 0.0 |
| 154.00 | | 14.1 | 41.8 | | | | | 0.0 | 30.8 | 14.1 | 72.5 | 0.0 | 0.0 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:45 PM

Customer: AT&T MOBILITY

| | | | | | | | | | |
|-------------------------------|------------------------------|--|--|--|-------------------------------|--|--|--|--|
| Load Case: 1.0D + 1.0W | Serviceability 60 mph | | | | 33 Iterations | | | | |
| Gust Response Factor : 1.10 | | | | | Wind Importance Factor : 1.15 | | | | |
| Dead Load Factor : 1.00 | | | | | | | | | |
| Wind Load Factor : 1.00 | | | | | | | | | |

| | | | | | | | | | | | | | |
|--------|-----------------|------|------|---------|-----|---------|---------|------|----------------|-----------------|-----------------|-------------|-------------|
| 155.00 | | 14.0 | 41.3 | | | | 0.0 | 30.8 | 14.0 | 72.1 | 0.0 | 0.0 | |
| 156.00 | | 13.9 | 40.9 | | | | 0.0 | 30.8 | 13.9 | 71.7 | 0.0 | 0.0 | |
| 157.00 | | 13.7 | 40.4 | | | | 0.0 | 30.8 | 13.7 | 71.2 | 0.0 | 0.0 | |
| 158.00 | | 13.6 | 40.0 | | | | 0.0 | 30.8 | 13.6 | 70.8 | 0.0 | 0.0 | |
| 159.00 | | 13.5 | 39.5 | | | | 0.0 | 30.8 | 13.5 | 70.3 | 0.0 | 0.0 | |
| 160.00 | | 19.0 | 39.1 | | | | 0.0 | 30.8 | 19.0 | 69.9 | 0.0 | 0.0 | |
| 161.00 | | 24.4 | 38.7 | | | | 5.0 | 30.8 | 29.4 | 69.4 | 0.0 | 0.0 | |
| 162.00 | | 24.2 | 38.2 | | | | 5.0 | 30.8 | 29.1 | 69.0 | 0.0 | 0.0 | |
| 163.00 | | 23.9 | 37.8 | | | | 5.0 | 30.8 | 28.9 | 68.5 | 0.0 | 0.0 | |
| 164.00 | | 23.7 | 37.3 | | | | 5.0 | 30.8 | 28.7 | 68.1 | 0.0 | 0.0 | |
| 165.00 | | 23.5 | 36.9 | | | | 5.0 | 30.8 | 28.5 | 67.7 | 0.0 | 0.0 | |
| 166.00 | | 23.2 | 36.4 | | | | 5.0 | 30.8 | 28.2 | 67.2 | 0.0 | 0.0 | |
| 167.00 | Appertunance(s) | 17.7 | 36.0 | 451.8 | 0.0 | 0.0 | 1,276.5 | 5.0 | 30.8 | 474.6 | 1,343.3 | 0.0 | 0.0 |
| 168.00 | | 12.3 | 35.6 | | | | | 0.0 | 19.9 | 12.3 | 55.5 | 0.0 | 0.0 |
| 169.00 | | 12.2 | 35.1 | | | | | 0.0 | 19.9 | 12.2 | 55.0 | 0.0 | 0.0 |
| 170.00 | | 12.0 | 34.7 | | | | | 0.0 | 19.9 | 12.0 | 54.6 | 0.0 | 0.0 |
| 171.00 | | 11.9 | 34.2 | | | | | 0.0 | 19.9 | 11.9 | 54.1 | 0.0 | 0.0 |
| 172.00 | | 11.8 | 33.8 | | | | | 0.0 | 19.9 | 11.8 | 53.7 | 0.0 | 0.0 |
| 173.00 | | 11.6 | 33.3 | | | | | 0.0 | 19.9 | 11.6 | 53.3 | 0.0 | 0.0 |
| 174.00 | | 11.5 | 32.9 | | | | | 0.0 | 19.9 | 11.5 | 52.8 | 0.0 | 0.0 |
| 175.00 | | 11.4 | 32.4 | | | | | 0.0 | 19.9 | 11.4 | 52.4 | 0.0 | 0.0 |
| 176.00 | | 11.2 | 32.0 | | | | | 0.0 | 19.9 | 11.2 | 51.9 | 0.0 | 0.0 |
| 177.00 | | 11.1 | 31.6 | | | | | 0.0 | 19.9 | 11.1 | 51.5 | 0.0 | 0.0 |
| 178.00 | | 11.0 | 31.1 | | | | | 0.0 | 19.9 | 11.0 | 51.0 | 0.0 | 0.0 |
| 179.00 | | 10.8 | 30.7 | | | | | 0.0 | 19.9 | 10.8 | 50.6 | 0.0 | 0.0 |
| 180.00 | Appertunance(s) | 5.4 | 30.2 | 1,035.3 | 0.0 | 4,172.5 | 2,521.3 | 0.0 | 19.9 | 1,040.7 | 2,571.4 | 0.0 | 0.0 |
| | | | | | | | | | Totals: | 8,916.55 | 57,927.3 | 0.00 | 0.00 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:45 PM

Customer: AT&T MOBILITY

Load Case: 1.0D + 1.0W

Serviceability 60 mph

33 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

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 | -57.93 | -8.91 | 0.00 | -1,056.35 | 0.00 | 1,056.35 | 5,129.98 | 2,564.99 | 11,021.5 | 5,518.96 | 0.00 | 0.00 | 0.150 |
| 1.00 | -57.51 | -8.89 | 0.00 | -1,047.45 | 0.00 | 1,047.45 | 5,115.23 | 2,557.61 | 10,943.3 | 5,479.82 | 0.00 | -0.01 | 0.150 |
| 2.00 | -57.09 | -8.88 | 0.00 | -1,038.55 | 0.00 | 1,038.55 | 5,100.42 | 2,550.21 | 10,865.3 | 5,440.75 | 0.00 | -0.02 | 0.150 |
| 3.00 | -56.67 | -8.87 | 0.00 | -1,029.67 | 0.00 | 1,029.67 | 5,085.56 | 2,542.78 | 10,787.4 | 5,401.75 | 0.01 | -0.03 | 0.149 |
| 4.00 | -56.26 | -8.85 | 0.00 | -1,020.81 | 0.00 | 1,020.81 | 5,070.64 | 2,535.32 | 10,709.7 | 5,362.83 | 0.02 | -0.04 | 0.149 |
| 5.00 | -55.84 | -8.84 | 0.00 | -1,011.95 | 0.00 | 1,011.95 | 5,055.67 | 2,527.83 | 10,632.1 | 5,323.99 | 0.02 | -0.04 | 0.148 |
| 6.00 | -55.43 | -8.83 | 0.00 | -1,003.11 | 0.00 | 1,003.11 | 5,040.63 | 2,520.32 | 10,554.7 | 5,285.22 | 0.03 | -0.05 | 0.148 |
| 7.00 | -55.02 | -8.81 | 0.00 | -994.29 | 0.00 | 994.29 | 5,025.54 | 2,512.77 | 10,477.4 | 5,246.53 | 0.05 | -0.06 | 0.147 |
| 8.00 | -54.61 | -8.80 | 0.00 | -985.48 | 0.00 | 985.48 | 5,010.40 | 2,505.20 | 10,400.3 | 5,207.92 | 0.06 | -0.07 | 0.147 |
| 9.00 | -54.20 | -8.79 | 0.00 | -976.68 | 0.00 | 976.68 | 4,995.19 | 2,497.60 | 10,323.4 | 5,169.39 | 0.08 | -0.08 | 0.146 |
| 10.00 | -53.79 | -8.77 | 0.00 | -967.89 | 0.00 | 967.89 | 4,979.93 | 2,489.97 | 10,246.6 | 5,130.93 | 0.09 | -0.09 | 0.146 |
| 11.00 | -53.38 | -8.76 | 0.00 | -959.12 | 0.00 | 959.12 | 4,964.61 | 2,482.31 | 10,170.0 | 5,092.56 | 0.11 | -0.10 | 0.146 |
| 12.00 | -52.97 | -8.74 | 0.00 | -950.36 | 0.00 | 950.36 | 4,949.24 | 2,474.62 | 10,093.5 | 5,054.27 | 0.14 | -0.11 | 0.145 |
| 13.00 | -52.56 | -8.73 | 0.00 | -941.62 | 0.00 | 941.62 | 4,933.81 | 2,466.90 | 10,017.2 | 5,016.06 | 0.16 | -0.12 | 0.145 |
| 14.00 | -52.16 | -8.72 | 0.00 | -932.89 | 0.00 | 932.89 | 4,918.32 | 2,459.16 | 9,941.08 | 4,977.93 | 0.18 | -0.13 | 0.144 |
| 15.00 | -51.76 | -8.70 | 0.00 | -924.17 | 0.00 | 924.17 | 4,902.77 | 2,451.39 | 9,865.10 | 4,939.88 | 0.21 | -0.13 | 0.144 |
| 16.00 | -51.35 | -8.69 | 0.00 | -915.47 | 0.00 | 915.47 | 4,887.17 | 2,443.58 | 9,789.30 | 4,901.92 | 0.24 | -0.14 | 0.143 |
| 17.00 | -50.95 | -8.68 | 0.00 | -906.78 | 0.00 | 906.78 | 4,871.51 | 2,435.75 | 9,713.66 | 4,864.05 | 0.27 | -0.15 | 0.143 |
| 18.00 | -50.55 | -8.66 | 0.00 | -898.11 | 0.00 | 898.11 | 4,855.79 | 2,427.89 | 9,638.20 | 4,826.26 | 0.31 | -0.16 | 0.142 |
| 19.00 | -50.15 | -8.65 | 0.00 | -889.44 | 0.00 | 889.44 | 4,840.02 | 2,420.01 | 9,562.90 | 4,788.56 | 0.34 | -0.17 | 0.142 |
| 20.00 | -49.75 | -8.63 | 0.00 | -880.80 | 0.00 | 880.80 | 4,824.18 | 2,412.09 | 9,487.79 | 4,750.94 | 0.38 | -0.18 | 0.141 |
| 21.00 | -49.35 | -8.62 | 0.00 | -872.16 | 0.00 | 872.16 | 4,808.29 | 2,404.15 | 9,412.84 | 4,713.42 | 0.42 | -0.19 | 0.141 |
| 22.00 | -48.96 | -8.61 | 0.00 | -863.54 | 0.00 | 863.54 | 4,792.35 | 2,396.17 | 9,338.08 | 4,675.98 | 0.46 | -0.20 | 0.140 |
| 23.00 | -48.56 | -8.59 | 0.00 | -854.94 | 0.00 | 854.94 | 4,776.35 | 2,388.17 | 9,263.49 | 4,638.63 | 0.50 | -0.21 | 0.140 |
| 24.00 | -48.17 | -8.58 | 0.00 | -846.35 | 0.00 | 846.35 | 4,760.29 | 2,380.14 | 9,189.09 | 4,601.37 | 0.54 | -0.22 | 0.139 |
| 25.00 | -47.77 | -8.56 | 0.00 | -837.77 | 0.00 | 837.77 | 4,744.17 | 2,372.08 | 9,114.87 | 4,564.21 | 0.59 | -0.23 | 0.138 |
| 26.00 | -47.38 | -8.55 | 0.00 | -829.20 | 0.00 | 829.20 | 4,728.00 | 2,364.00 | 9,040.83 | 4,527.13 | 0.64 | -0.24 | 0.138 |
| 27.00 | -46.99 | -8.54 | 0.00 | -820.65 | 0.00 | 820.65 | 4,711.76 | 2,355.88 | 8,966.98 | 4,490.15 | 0.69 | -0.25 | 0.137 |
| 28.00 | -46.60 | -8.52 | 0.00 | -812.12 | 0.00 | 812.12 | 4,695.48 | 2,347.74 | 8,893.31 | 4,453.26 | 0.74 | -0.26 | 0.137 |
| 29.00 | -46.21 | -8.51 | 0.00 | -803.59 | 0.00 | 803.59 | 4,679.13 | 2,339.57 | 8,819.83 | 4,416.47 | 0.80 | -0.26 | 0.136 |
| 30.00 | -45.81 | -8.49 | 0.00 | -795.08 | 0.00 | 795.08 | 4,662.73 | 2,331.36 | 8,746.54 | 4,379.77 | 0.85 | -0.27 | 0.136 |
| 31.00 | -45.42 | -8.47 | 0.00 | -786.60 | 0.00 | 786.60 | 4,646.27 | 2,323.14 | 8,673.45 | 4,343.17 | 0.91 | -0.28 | 0.135 |
| 32.00 | -45.04 | -8.46 | 0.00 | -778.12 | 0.00 | 778.12 | 4,629.75 | 2,314.88 | 8,600.55 | 4,306.67 | 0.97 | -0.29 | 0.135 |
| 33.00 | -44.65 | -8.44 | 0.00 | -769.66 | 0.00 | 769.66 | 4,613.18 | 2,306.59 | 8,527.84 | 4,270.26 | 1.04 | -0.30 | 0.134 |
| 34.00 | -44.27 | -8.43 | 0.00 | -761.22 | 0.00 | 761.22 | 4,596.55 | 2,298.27 | 8,455.33 | 4,233.95 | 1.10 | -0.31 | 0.133 |
| 35.00 | -43.88 | -8.41 | 0.00 | -752.79 | 0.00 | 752.79 | 4,579.86 | 2,289.93 | 8,383.01 | 4,197.74 | 1.17 | -0.32 | 0.133 |
| 36.00 | -43.50 | -8.40 | 0.00 | -744.38 | 0.00 | 744.38 | 4,563.12 | 2,281.56 | 8,310.90 | 4,161.63 | 1.24 | -0.33 | 0.132 |
| 37.00 | -43.12 | -8.38 | 0.00 | -735.98 | 0.00 | 735.98 | 4,546.32 | 2,273.16 | 8,238.99 | 4,125.62 | 1.31 | -0.34 | 0.132 |
| 38.00 | -42.74 | -8.37 | 0.00 | -727.59 | 0.00 | 727.59 | 4,529.46 | 2,264.73 | 8,167.27 | 4,089.71 | 1.38 | -0.35 | 0.131 |
| 39.00 | -42.36 | -8.35 | 0.00 | -719.22 | 0.00 | 719.22 | 4,512.54 | 2,256.27 | 8,095.77 | 4,053.90 | 1.45 | -0.36 | 0.130 |
| 40.00 | -41.98 | -8.34 | 0.00 | -710.87 | 0.00 | 710.87 | 4,491.22 | 2,245.61 | 8,016.71 | 4,014.31 | 1.53 | -0.37 | 0.130 |
| 41.00 | -41.61 | -8.32 | 0.00 | -702.53 | 0.00 | 702.53 | 4,468.58 | 2,234.29 | 7,935.69 | 3,973.74 | 1.61 | -0.38 | 0.129 |
| 42.00 | -41.23 | -8.31 | 0.00 | -694.21 | 0.00 | 694.21 | 4,445.95 | 2,222.97 | 7,855.09 | 3,933.38 | 1.69 | -0.39 | 0.129 |
| 42.96 | -40.87 | -8.30 | 0.00 | -686.27 | 0.00 | 686.27 | 4,424.29 | 2,212.15 | 7,778.37 | 3,894.97 | 1.77 | -0.40 | 0.128 |
| 43.00 | -40.85 | -8.29 | 0.00 | -685.91 | 0.00 | 685.91 | 4,423.31 | 2,211.65 | 7,774.90 | 3,893.23 | 1.77 | -0.40 | 0.127 |
| 44.00 | -40.30 | -8.27 | 0.00 | -677.62 | 0.00 | 677.62 | 4,400.67 | 2,200.33 | 7,695.11 | 3,853.28 | 1.86 | -0.41 | 0.127 |
| 45.00 | -39.75 | -8.25 | 0.00 | -669.35 | 0.00 | 669.35 | 4,378.03 | 2,189.01 | 7,615.75 | 3,813.53 | 1.94 | -0.42 | 0.126 |
| 46.00 | -39.20 | -8.23 | 0.00 | -661.09 | 0.00 | 661.09 | 4,355.39 | 2,177.70 | 7,536.79 | 3,773.99 | 2.03 | -0.43 | 0.126 |
| 47.00 | -38.66 | -8.22 | 0.00 | -652.86 | 0.00 | 652.86 | 4,332.75 | 2,166.38 | 7,458.24 | 3,734.66 | 2.12 | -0.44 | 0.125 |
| 48.00 | -38.12 | -8.20 | 0.00 | -644.64 | 0.00 | 644.64 | 4,310.11 | 2,155.06 | 7,380.10 | 3,695.54 | 2.22 | -0.45 | 0.124 |
| 49.00 | -37.58 | -8.19 | 0.00 | -636.45 | 0.00 | 636.45 | 4,287.47 | 2,143.74 | 7,302.38 | 3,656.62 | 2.31 | -0.46 | 0.124 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:46 PM

Customer: AT&T MOBILITY

| | | |
|-------------------------------|-----------------------|-------------------------------|
| Load Case: 1.0D + 1.0W | Serviceability 60 mph | 33 Iterations |
| Gust Response Factor : 1.10 | | Wind Importance Factor : 1.15 |
| Dead Load Factor : 1.00 | | |
| Wind Load Factor : 1.00 | | |

| | | | | | | | | | | | | | |
|--------|--------|-------|------|---------|------|--------|----------|----------|----------|----------|-------|-------|-------|
| 49.04 | -37.56 | -8.18 | 0.00 | -636.12 | 0.00 | 636.12 | 3,622.99 | 1,811.50 | 6,300.42 | 3,154.89 | 2.31 | -0.46 | 0.139 |
| 50.00 | -37.23 | -8.16 | 0.00 | -628.27 | 0.00 | 628.27 | 3,610.23 | 1,805.12 | 6,246.74 | 3,128.01 | 2.41 | -0.47 | 0.138 |
| 51.00 | -36.89 | -8.14 | 0.00 | -620.11 | 0.00 | 620.11 | 3,596.89 | 1,798.44 | 6,190.96 | 3,100.08 | 2.51 | -0.48 | 0.137 |
| 52.00 | -36.54 | -8.13 | 0.00 | -611.96 | 0.00 | 611.96 | 3,583.49 | 1,791.74 | 6,135.33 | 3,072.23 | 2.61 | -0.49 | 0.136 |
| 53.00 | -36.20 | -8.11 | 0.00 | -603.84 | 0.00 | 603.84 | 3,570.03 | 1,785.02 | 6,079.85 | 3,044.45 | 2.71 | -0.50 | 0.135 |
| 54.00 | -35.87 | -8.09 | 0.00 | -595.73 | 0.00 | 595.73 | 3,556.52 | 1,778.26 | 6,024.52 | 3,016.74 | 2.81 | -0.51 | 0.134 |
| 55.00 | -35.53 | -8.07 | 0.00 | -587.64 | 0.00 | 587.64 | 3,542.95 | 1,771.47 | 5,969.33 | 2,989.10 | 2.92 | -0.52 | 0.134 |
| 56.00 | -35.19 | -8.06 | 0.00 | -579.56 | 0.00 | 579.56 | 3,529.32 | 1,764.66 | 5,914.30 | 2,961.55 | 3.03 | -0.53 | 0.133 |
| 57.00 | -34.85 | -8.04 | 0.00 | -571.51 | 0.00 | 571.51 | 3,515.63 | 1,757.82 | 5,859.42 | 2,934.06 | 3.14 | -0.54 | 0.132 |
| 58.00 | -34.52 | -8.02 | 0.00 | -563.47 | 0.00 | 563.47 | 3,501.89 | 1,750.94 | 5,804.69 | 2,906.66 | 3.26 | -0.55 | 0.131 |
| 59.00 | -34.18 | -8.00 | 0.00 | -555.45 | 0.00 | 555.45 | 3,488.09 | 1,744.04 | 5,750.12 | 2,879.33 | 3.37 | -0.56 | 0.130 |
| 60.00 | -33.85 | -7.98 | 0.00 | -547.45 | 0.00 | 547.45 | 3,474.23 | 1,737.12 | 5,695.71 | 2,852.09 | 3.49 | -0.57 | 0.129 |
| 61.00 | -33.52 | -7.97 | 0.00 | -539.46 | 0.00 | 539.46 | 3,460.32 | 1,730.16 | 5,641.45 | 2,824.92 | 3.61 | -0.58 | 0.128 |
| 62.00 | -33.18 | -7.95 | 0.00 | -531.50 | 0.00 | 531.50 | 3,446.35 | 1,723.17 | 5,587.36 | 2,797.83 | 3.73 | -0.59 | 0.127 |
| 63.00 | -32.85 | -7.93 | 0.00 | -523.55 | 0.00 | 523.55 | 3,432.32 | 1,716.16 | 5,533.43 | 2,770.83 | 3.86 | -0.60 | 0.126 |
| 64.00 | -32.52 | -7.90 | 0.00 | -515.62 | 0.00 | 515.62 | 3,418.23 | 1,709.12 | 5,479.66 | 2,743.90 | 3.98 | -0.61 | 0.125 |
| 65.00 | -32.19 | -7.86 | 0.00 | -507.72 | 0.00 | 507.72 | 3,404.09 | 1,702.05 | 5,426.05 | 2,717.06 | 4.11 | -0.62 | 0.124 |
| 66.00 | -31.87 | -7.81 | 0.00 | -499.87 | 0.00 | 499.87 | 3,389.89 | 1,694.95 | 5,372.62 | 2,690.30 | 4.24 | -0.63 | 0.123 |
| 67.00 | -31.54 | -7.77 | 0.00 | -492.05 | 0.00 | 492.05 | 3,375.64 | 1,687.82 | 5,319.35 | 2,663.63 | 4.38 | -0.64 | 0.122 |
| 68.00 | -31.21 | -7.72 | 0.00 | -484.28 | 0.00 | 484.28 | 3,361.32 | 1,680.66 | 5,266.25 | 2,637.04 | 4.51 | -0.65 | 0.121 |
| 69.00 | -30.89 | -7.68 | 0.00 | -476.56 | 0.00 | 476.56 | 3,346.95 | 1,673.48 | 5,213.32 | 2,610.53 | 4.65 | -0.66 | 0.120 |
| 70.00 | -30.56 | -7.64 | 0.00 | -468.88 | 0.00 | 468.88 | 3,332.53 | 1,666.26 | 5,160.56 | 2,584.12 | 4.79 | -0.67 | 0.118 |
| 71.00 | -30.24 | -7.59 | 0.00 | -461.24 | 0.00 | 461.24 | 3,318.04 | 1,659.02 | 5,107.98 | 2,557.79 | 4.93 | -0.68 | 0.117 |
| 72.00 | -29.92 | -7.55 | 0.00 | -453.65 | 0.00 | 453.65 | 3,300.52 | 1,650.26 | 5,051.01 | 2,529.26 | 5.07 | -0.69 | 0.116 |
| 73.00 | -29.59 | -7.50 | 0.00 | -446.11 | 0.00 | 446.11 | 3,281.11 | 1,640.56 | 4,991.50 | 2,499.46 | 5.22 | -0.70 | 0.116 |
| 74.00 | -29.27 | -7.46 | 0.00 | -438.61 | 0.00 | 438.61 | 3,261.71 | 1,630.85 | 4,932.34 | 2,469.84 | 5.37 | -0.71 | 0.115 |
| 75.00 | -28.95 | -7.41 | 0.00 | -431.15 | 0.00 | 431.15 | 3,242.30 | 1,621.15 | 4,873.54 | 2,440.39 | 5.52 | -0.72 | 0.114 |
| 76.00 | -28.63 | -7.37 | 0.00 | -423.74 | 0.00 | 423.74 | 3,222.90 | 1,611.45 | 4,815.08 | 2,411.12 | 5.67 | -0.73 | 0.113 |
| 77.00 | -28.32 | -7.32 | 0.00 | -416.37 | 0.00 | 416.37 | 3,203.49 | 1,601.75 | 4,756.98 | 2,382.03 | 5.82 | -0.74 | 0.112 |
| 78.00 | -28.00 | -7.28 | 0.00 | -409.05 | 0.00 | 409.05 | 3,184.09 | 1,592.04 | 4,699.23 | 2,353.11 | 5.98 | -0.75 | 0.111 |
| 79.00 | -27.68 | -7.23 | 0.00 | -401.78 | 0.00 | 401.78 | 3,164.68 | 1,582.34 | 4,641.84 | 2,324.37 | 6.14 | -0.76 | 0.110 |
| 80.00 | -27.37 | -7.19 | 0.00 | -394.54 | 0.00 | 394.54 | 3,145.28 | 1,572.64 | 4,584.79 | 2,295.80 | 6.30 | -0.77 | 0.109 |
| 81.00 | -27.05 | -7.14 | 0.00 | -387.36 | 0.00 | 387.36 | 3,125.87 | 1,562.94 | 4,528.10 | 2,267.42 | 6.46 | -0.78 | 0.108 |
| 82.00 | -26.74 | -7.09 | 0.00 | -380.22 | 0.00 | 380.22 | 3,106.47 | 1,553.24 | 4,471.77 | 2,239.21 | 6.63 | -0.79 | 0.107 |
| 83.00 | -26.43 | -7.05 | 0.00 | -373.13 | 0.00 | 373.13 | 3,087.07 | 1,543.53 | 4,415.78 | 2,211.17 | 6.79 | -0.80 | 0.106 |
| 84.00 | -26.12 | -7.00 | 0.00 | -366.08 | 0.00 | 366.08 | 3,067.66 | 1,533.83 | 4,360.15 | 2,183.32 | 6.96 | -0.81 | 0.105 |
| 85.00 | -25.80 | -6.96 | 0.00 | -359.07 | 0.00 | 359.07 | 3,048.26 | 1,524.13 | 4,304.87 | 2,155.63 | 7.13 | -0.82 | 0.104 |
| 86.00 | -25.49 | -6.91 | 0.00 | -352.11 | 0.00 | 352.11 | 3,028.85 | 1,514.43 | 4,249.94 | 2,128.13 | 7.30 | -0.83 | 0.103 |
| 87.00 | -25.19 | -6.88 | 0.00 | -345.20 | 0.00 | 345.20 | 3,009.45 | 1,504.72 | 4,195.37 | 2,100.80 | 7.48 | -0.84 | 0.102 |
| 87.54 | -25.02 | -6.85 | 0.00 | -341.49 | 0.00 | 341.49 | 2,998.97 | 1,499.48 | 4,166.05 | 2,086.12 | 7.57 | -0.84 | 0.101 |
| 88.00 | -24.82 | -6.82 | 0.00 | -338.33 | 0.00 | 338.33 | 2,990.04 | 1,495.02 | 4,141.15 | 2,073.65 | 7.66 | -0.85 | 0.099 |
| 89.00 | -24.40 | -6.77 | 0.00 | -331.51 | 0.00 | 331.51 | 2,970.64 | 1,485.32 | 4,087.28 | 2,046.68 | 7.83 | -0.86 | 0.098 |
| 90.00 | -23.98 | -6.73 | 0.00 | -324.74 | 0.00 | 324.74 | 2,951.23 | 1,475.62 | 4,033.76 | 2,019.88 | 8.02 | -0.87 | 0.097 |
| 91.00 | -23.56 | -6.68 | 0.00 | -318.02 | 0.00 | 318.02 | 2,931.83 | 1,465.91 | 3,980.60 | 1,993.26 | 8.20 | -0.88 | 0.096 |
| 92.00 | -23.14 | -6.64 | 0.00 | -311.34 | 0.00 | 311.34 | 2,912.42 | 1,456.21 | 3,927.79 | 1,966.81 | 8.38 | -0.89 | 0.095 |
| 92.46 | -22.95 | -6.61 | 0.00 | -308.31 | 0.00 | 308.31 | 2,424.49 | 1,212.24 | 3,334.85 | 1,669.90 | 8.47 | -0.89 | 0.105 |
| 93.00 | -22.80 | -6.58 | 0.00 | -304.71 | 0.00 | 304.71 | 2,418.22 | 1,209.11 | 3,314.29 | 1,659.61 | 8.57 | -0.89 | 0.104 |
| 94.00 | -22.51 | -6.54 | 0.00 | -298.13 | 0.00 | 298.13 | 2,406.65 | 1,203.32 | 3,276.56 | 1,640.72 | 8.76 | -0.90 | 0.103 |
| 95.00 | -22.23 | -6.49 | 0.00 | -291.59 | 0.00 | 291.59 | 2,395.02 | 1,197.51 | 3,238.97 | 1,621.89 | 8.95 | -0.91 | 0.101 |
| 96.00 | -21.47 | -6.28 | 0.00 | -285.10 | 0.00 | 285.10 | 2,383.33 | 1,191.67 | 3,201.50 | 1,603.13 | 9.14 | -0.92 | 0.099 |
| 97.00 | -21.19 | -6.23 | 0.00 | -278.82 | 0.00 | 278.82 | 2,371.59 | 1,185.79 | 3,164.18 | 1,584.44 | 9.34 | -0.93 | 0.098 |
| 98.00 | -20.91 | -6.19 | 0.00 | -272.59 | 0.00 | 272.59 | 2,359.79 | 1,179.89 | 3,126.99 | 1,565.82 | 9.53 | -0.94 | 0.097 |
| 99.00 | -20.63 | -6.14 | 0.00 | -266.40 | 0.00 | 266.40 | 2,347.93 | 1,173.97 | 3,089.94 | 1,547.27 | 9.73 | -0.95 | 0.095 |
| 100.00 | -20.35 | -6.10 | 0.00 | -260.26 | 0.00 | 260.26 | 2,336.02 | 1,168.01 | 3,053.03 | 1,528.79 | 9.93 | -0.96 | 0.094 |
| 101.00 | -20.08 | -6.05 | 0.00 | -254.16 | 0.00 | 254.16 | 2,324.05 | 1,162.02 | 3,016.27 | 1,510.38 | 10.13 | -0.97 | 0.092 |
| 102.00 | -19.80 | -6.01 | 0.00 | -248.11 | 0.00 | 248.11 | 2,312.02 | 1,156.01 | 2,979.65 | 1,492.04 | 10.34 | -0.98 | 0.091 |
| 103.00 | -19.52 | -5.96 | 0.00 | -242.10 | 0.00 | 242.10 | 2,299.80 | 1,149.90 | 2,943.01 | 1,473.69 | 10.55 | -0.99 | 0.089 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:46 PM

Customer: AT&T MOBILITY

| | | |
|-------------------------------|------------------------------|-------------------------------|
| Load Case: 1.0D + 1.0W | Serviceability 60 mph | 33 Iterations |
| Gust Response Factor : 1.10 | | Wind Importance Factor : 1.15 |
| Dead Load Factor : 1.00 | | |
| Wind Load Factor : 1.00 | | |

| | | | | | | | | | | | | | |
|--------|--------|-------|------|---------|------|--------|----------|----------|----------|----------|-------|-------|-------|
| 103.75 | -19.32 | -5.94 | 0.00 | -237.63 | 0.00 | 237.63 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 10.70 | -1.00 | 0.088 |
| 103.75 | -19.32 | -5.94 | 0.00 | -237.63 | 0.00 | 237.63 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 10.70 | -1.00 | 0.171 |
| 104.00 | -19.27 | -5.92 | 0.00 | -236.14 | 0.00 | 236.14 | 2,283.63 | 1,141.82 | 2,901.57 | 1,452.94 | 10.75 | -1.00 | 0.171 |
| 105.00 | -18.98 | -5.76 | 0.00 | -230.23 | 0.00 | 230.23 | 2,267.46 | 1,133.73 | 2,860.42 | 1,432.33 | 10.96 | -1.02 | 0.169 |
| 106.00 | -18.78 | -5.71 | 0.00 | -224.47 | 0.00 | 224.47 | 2,251.29 | 1,125.65 | 2,819.56 | 1,411.88 | 11.18 | -1.03 | 0.167 |
| 107.00 | -18.58 | -5.67 | 0.00 | -218.76 | 0.00 | 218.76 | 2,235.12 | 1,117.56 | 2,779.00 | 1,391.56 | 11.40 | -1.05 | 0.166 |
| 108.00 | -18.38 | -5.63 | 0.00 | -213.09 | 0.00 | 213.09 | 2,218.95 | 1,109.48 | 2,738.73 | 1,371.40 | 11.62 | -1.07 | 0.164 |
| 109.00 | -18.18 | -5.59 | 0.00 | -207.45 | 0.00 | 207.45 | 2,202.78 | 1,101.39 | 2,698.75 | 1,351.38 | 11.85 | -1.09 | 0.162 |
| 110.00 | -17.98 | -5.55 | 0.00 | -201.86 | 0.00 | 201.86 | 2,186.61 | 1,093.30 | 2,659.07 | 1,331.51 | 12.08 | -1.10 | 0.160 |
| 111.00 | -17.78 | -5.51 | 0.00 | -196.32 | 0.00 | 196.32 | 2,170.44 | 1,085.22 | 2,619.69 | 1,311.79 | 12.31 | -1.12 | 0.158 |
| 112.00 | -15.93 | -4.90 | 0.00 | -190.81 | 0.00 | 190.81 | 2,154.27 | 1,077.13 | 2,580.59 | 1,292.21 | 12.55 | -1.14 | 0.155 |
| 113.00 | -15.76 | -4.88 | 0.00 | -185.90 | 0.00 | 185.90 | 2,138.10 | 1,069.05 | 2,541.79 | 1,272.79 | 12.79 | -1.16 | 0.153 |
| 114.00 | -15.61 | -4.84 | 0.00 | -181.03 | 0.00 | 181.03 | 2,121.93 | 1,060.96 | 2,503.29 | 1,253.50 | 13.03 | -1.17 | 0.152 |
| 115.00 | -15.47 | -4.80 | 0.00 | -176.19 | 0.00 | 176.19 | 2,105.76 | 1,052.88 | 2,465.08 | 1,234.37 | 13.28 | -1.19 | 0.150 |
| 116.00 | -15.33 | -4.76 | 0.00 | -171.39 | 0.00 | 171.39 | 2,089.59 | 1,044.79 | 2,427.16 | 1,215.38 | 13.53 | -1.21 | 0.148 |
| 117.00 | -15.18 | -4.72 | 0.00 | -166.63 | 0.00 | 166.63 | 2,073.42 | 1,036.71 | 2,389.54 | 1,196.54 | 13.78 | -1.22 | 0.147 |
| 118.00 | -15.04 | -4.68 | 0.00 | -161.91 | 0.00 | 161.91 | 2,057.25 | 1,028.62 | 2,352.21 | 1,177.85 | 14.04 | -1.24 | 0.145 |
| 119.00 | -14.90 | -4.64 | 0.00 | -157.24 | 0.00 | 157.24 | 2,041.07 | 1,020.54 | 2,315.17 | 1,159.31 | 14.30 | -1.26 | 0.143 |
| 120.00 | -14.76 | -4.60 | 0.00 | -152.60 | 0.00 | 152.60 | 2,024.90 | 1,012.45 | 2,278.43 | 1,140.91 | 14.57 | -1.27 | 0.141 |
| 121.00 | -14.62 | -4.55 | 0.00 | -148.01 | 0.00 | 148.01 | 2,008.73 | 1,004.37 | 2,241.98 | 1,122.66 | 14.84 | -1.29 | 0.139 |
| 122.00 | -14.48 | -4.51 | 0.00 | -143.45 | 0.00 | 143.45 | 1,992.56 | 996.28 | 2,205.83 | 1,104.55 | 15.11 | -1.31 | 0.137 |
| 123.00 | -14.34 | -4.47 | 0.00 | -138.94 | 0.00 | 138.94 | 1,976.39 | 988.20 | 2,169.97 | 1,086.60 | 15.39 | -1.32 | 0.135 |
| 124.00 | -14.20 | -4.43 | 0.00 | -134.46 | 0.00 | 134.46 | 1,960.22 | 980.11 | 2,134.40 | 1,068.79 | 15.66 | -1.34 | 0.133 |
| 125.00 | -11.95 | -3.81 | 0.00 | -130.03 | 0.00 | 130.03 | 1,944.05 | 972.03 | 2,099.13 | 1,051.12 | 15.95 | -1.35 | 0.130 |
| 126.00 | -11.82 | -3.79 | 0.00 | -126.22 | 0.00 | 126.22 | 1,927.88 | 963.94 | 2,064.15 | 1,033.61 | 16.23 | -1.37 | 0.128 |
| 127.00 | -11.70 | -3.78 | 0.00 | -122.43 | 0.00 | 122.43 | 1,911.71 | 955.86 | 2,029.46 | 1,016.24 | 16.52 | -1.39 | 0.127 |
| 128.00 | -11.57 | -3.76 | 0.00 | -118.65 | 0.00 | 118.65 | 1,895.54 | 947.77 | 1,995.07 | 999.02 | 16.81 | -1.40 | 0.125 |
| 129.00 | -11.44 | -3.74 | 0.00 | -114.89 | 0.00 | 114.89 | 1,879.37 | 939.68 | 1,960.98 | 981.95 | 17.11 | -1.42 | 0.123 |
| 130.00 | -11.31 | -3.73 | 0.00 | -111.15 | 0.00 | 111.15 | 1,863.20 | 931.60 | 1,927.17 | 965.02 | 17.41 | -1.43 | 0.121 |
| 131.00 | -11.19 | -3.71 | 0.00 | -107.43 | 0.00 | 107.43 | 1,847.03 | 923.51 | 1,893.66 | 948.24 | 17.71 | -1.45 | 0.119 |
| 132.00 | -11.06 | -3.70 | 0.00 | -103.72 | 0.00 | 103.72 | 1,830.86 | 915.43 | 1,860.45 | 931.61 | 18.01 | -1.46 | 0.117 |
| 132.12 | -11.04 | -3.69 | 0.00 | -103.28 | 0.00 | 103.28 | 1,828.92 | 914.46 | 1,856.49 | 929.63 | 18.05 | -1.47 | 0.117 |
| 133.00 | -10.89 | -3.67 | 0.00 | -100.03 | 0.00 | 100.03 | 1,814.69 | 907.34 | 1,827.53 | 915.12 | 18.32 | -1.48 | 0.115 |
| 134.00 | -10.72 | -3.66 | 0.00 | -96.35 | 0.00 | 96.35 | 1,798.52 | 899.26 | 1,794.90 | 898.78 | 18.63 | -1.49 | 0.113 |
| 135.00 | -7.71 | -2.79 | 0.00 | -92.70 | 0.00 | 92.70 | 1,782.35 | 891.17 | 1,762.57 | 882.59 | 18.95 | -1.51 | 0.109 |
| 135.87 | -7.56 | -2.78 | 0.00 | -90.27 | 0.00 | 90.27 | 999.39 | 499.70 | 1,006.16 | 503.83 | 19.22 | -1.52 | 0.187 |
| 136.00 | -7.55 | -2.78 | 0.00 | -89.90 | 0.00 | 89.90 | 998.64 | 499.32 | 1,004.22 | 502.86 | 19.27 | -1.52 | 0.186 |
| 137.00 | -7.46 | -2.76 | 0.00 | -87.13 | 0.00 | 87.13 | 992.83 | 496.42 | 989.37 | 495.42 | 19.59 | -1.55 | 0.183 |
| 138.00 | -7.37 | -2.74 | 0.00 | -84.37 | 0.00 | 84.37 | 986.97 | 493.49 | 974.56 | 488.00 | 19.91 | -1.57 | 0.180 |
| 139.00 | -7.29 | -2.73 | 0.00 | -81.62 | 0.00 | 81.62 | 981.05 | 490.53 | 959.80 | 480.61 | 20.24 | -1.59 | 0.177 |
| 140.00 | -6.54 | -2.36 | 0.00 | -77.20 | 0.00 | 77.20 | 975.08 | 487.54 | 945.09 | 473.25 | 20.58 | -1.61 | 0.170 |
| 141.00 | -6.47 | -2.35 | 0.00 | -74.83 | 0.00 | 74.83 | 969.05 | 484.52 | 930.44 | 465.91 | 20.92 | -1.64 | 0.167 |
| 142.00 | -6.39 | -2.33 | 0.00 | -72.48 | 0.00 | 72.48 | 962.96 | 481.48 | 915.84 | 458.60 | 21.27 | -1.66 | 0.165 |
| 143.00 | -6.31 | -2.32 | 0.00 | -70.15 | 0.00 | 70.15 | 956.81 | 478.41 | 901.30 | 451.32 | 21.62 | -1.68 | 0.162 |
| 144.00 | -6.23 | -2.30 | 0.00 | -67.83 | 0.00 | 67.83 | 950.61 | 475.30 | 886.82 | 444.07 | 21.97 | -1.70 | 0.159 |
| 145.00 | -6.15 | -2.29 | 0.00 | -65.53 | 0.00 | 65.53 | 944.35 | 472.17 | 872.40 | 436.85 | 22.33 | -1.72 | 0.157 |
| 146.00 | -6.07 | -2.27 | 0.00 | -63.24 | 0.00 | 63.24 | 938.03 | 469.01 | 858.03 | 429.66 | 22.69 | -1.74 | 0.154 |
| 147.00 | -6.00 | -2.26 | 0.00 | -60.97 | 0.00 | 60.97 | 931.66 | 465.83 | 843.74 | 422.50 | 23.06 | -1.77 | 0.151 |
| 148.00 | -5.92 | -2.24 | 0.00 | -58.71 | 0.00 | 58.71 | 925.22 | 462.61 | 829.51 | 415.37 | 23.43 | -1.79 | 0.148 |
| 149.00 | -5.85 | -2.23 | 0.00 | -56.47 | 0.00 | 56.47 | 918.73 | 459.37 | 815.34 | 408.28 | 23.81 | -1.81 | 0.145 |
| 150.00 | -5.61 | -2.15 | 0.00 | -54.24 | 0.00 | 54.24 | 912.19 | 456.09 | 801.24 | 401.22 | 24.19 | -1.83 | 0.141 |
| 151.00 | -5.54 | -2.14 | 0.00 | -52.09 | 0.00 | 52.09 | 905.59 | 452.79 | 787.21 | 394.19 | 24.57 | -1.85 | 0.138 |
| 152.00 | -5.47 | -2.12 | 0.00 | -49.95 | 0.00 | 49.95 | 898.93 | 449.46 | 773.25 | 387.20 | 24.96 | -1.87 | 0.135 |
| 153.00 | -5.39 | -2.11 | 0.00 | -47.83 | 0.00 | 47.83 | 892.21 | 446.10 | 759.37 | 380.25 | 25.36 | -1.89 | 0.132 |
| 154.00 | -5.32 | -2.09 | 0.00 | -45.72 | 0.00 | 45.72 | 885.44 | 442.72 | 745.56 | 373.33 | 25.75 | -1.91 | 0.129 |
| 155.00 | -5.25 | -2.08 | 0.00 | -43.63 | 0.00 | 43.63 | 878.60 | 439.30 | 731.82 | 366.45 | 26.16 | -1.93 | 0.125 |
| 156.00 | -5.18 | -2.06 | 0.00 | -41.55 | 0.00 | 41.55 | 871.72 | 435.86 | 718.16 | 359.61 | 26.56 | -1.95 | 0.122 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:46 PM

Customer: AT&T MOBILITY

Load Case: 1.0D + 1.0W

Serviceability 60 mph

33 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.15

Dead Load Factor : 1.00

Wind Load Factor : 1.00

| | | | | | | | | | | | | | |
|--------|-------|-------|------|--------|------|-------|--------|--------|--------|--------|-------|-------|-------|
| 157.00 | -5.10 | -2.05 | 0.00 | -39.49 | 0.00 | 39.49 | 864.77 | 432.39 | 704.58 | 352.81 | 26.97 | -1.97 | 0.118 |
| 158.00 | -5.03 | -2.03 | 0.00 | -37.44 | 0.00 | 37.44 | 857.77 | 428.88 | 691.08 | 346.05 | 27.39 | -1.99 | 0.114 |
| 159.00 | -4.96 | -2.02 | 0.00 | -35.40 | 0.00 | 35.40 | 850.71 | 425.35 | 677.66 | 339.34 | 27.80 | -2.00 | 0.110 |
| 160.00 | -4.89 | -2.00 | 0.00 | -33.38 | 0.00 | 33.38 | 843.59 | 421.80 | 664.33 | 332.66 | 28.23 | -2.02 | 0.106 |
| 161.00 | -4.82 | -1.97 | 0.00 | -31.38 | 0.00 | 31.38 | 836.42 | 418.21 | 651.08 | 326.02 | 28.65 | -2.04 | 0.102 |
| 162.00 | -4.76 | -1.94 | 0.00 | -29.41 | 0.00 | 29.41 | 829.19 | 414.59 | 637.92 | 319.43 | 29.08 | -2.06 | 0.098 |
| 163.00 | -4.69 | -1.91 | 0.00 | -27.47 | 0.00 | 27.47 | 819.85 | 409.92 | 623.28 | 312.10 | 29.51 | -2.07 | 0.094 |
| 164.00 | -4.62 | -1.88 | 0.00 | -25.56 | 0.00 | 25.56 | 810.15 | 405.07 | 608.54 | 304.72 | 29.95 | -2.09 | 0.090 |
| 165.00 | -4.55 | -1.85 | 0.00 | -23.68 | 0.00 | 23.68 | 800.44 | 400.22 | 593.98 | 297.43 | 30.39 | -2.10 | 0.085 |
| 166.00 | -4.49 | -1.82 | 0.00 | -21.83 | 0.00 | 21.83 | 790.74 | 395.37 | 579.60 | 290.23 | 30.83 | -2.12 | 0.081 |
| 167.00 | -3.16 | -1.30 | 0.00 | -20.01 | 0.00 | 20.01 | 781.04 | 390.52 | 565.39 | 283.11 | 31.27 | -2.13 | 0.075 |
| 168.00 | -3.11 | -1.28 | 0.00 | -18.71 | 0.00 | 18.71 | 771.34 | 385.67 | 551.35 | 276.09 | 31.72 | -2.14 | 0.072 |
| 169.00 | -3.05 | -1.27 | 0.00 | -17.43 | 0.00 | 17.43 | 761.63 | 380.82 | 537.50 | 269.15 | 32.17 | -2.16 | 0.069 |
| 170.00 | -3.00 | -1.26 | 0.00 | -16.16 | 0.00 | 16.16 | 751.93 | 375.97 | 523.82 | 262.30 | 32.62 | -2.17 | 0.066 |
| 171.00 | -2.94 | -1.24 | 0.00 | -14.90 | 0.00 | 14.90 | 742.23 | 371.11 | 510.32 | 255.54 | 33.08 | -2.18 | 0.062 |
| 172.00 | -2.89 | -1.23 | 0.00 | -13.66 | 0.00 | 13.66 | 732.53 | 366.26 | 496.99 | 248.86 | 33.54 | -2.19 | 0.059 |
| 173.00 | -2.84 | -1.22 | 0.00 | -12.43 | 0.00 | 12.43 | 722.82 | 361.41 | 483.84 | 242.28 | 34.00 | -2.20 | 0.055 |
| 174.00 | -2.78 | -1.20 | 0.00 | -11.21 | 0.00 | 11.21 | 713.12 | 356.56 | 470.86 | 235.78 | 34.46 | -2.21 | 0.051 |
| 175.00 | -2.73 | -1.19 | 0.00 | -10.00 | 0.00 | 10.00 | 703.42 | 351.71 | 458.07 | 229.37 | 34.93 | -2.22 | 0.048 |
| 176.00 | -2.68 | -1.18 | 0.00 | -8.81 | 0.00 | 8.81 | 693.72 | 346.86 | 445.44 | 223.05 | 35.39 | -2.23 | 0.043 |
| 177.00 | -2.63 | -1.17 | 0.00 | -7.63 | 0.00 | 7.63 | 684.02 | 342.01 | 433.00 | 216.82 | 35.86 | -2.24 | 0.039 |
| 178.00 | -2.58 | -1.15 | 0.00 | -6.47 | 0.00 | 6.47 | 674.31 | 337.16 | 420.73 | 210.68 | 36.33 | -2.25 | 0.035 |
| 179.00 | -2.53 | -1.14 | 0.00 | -5.31 | 0.00 | 5.31 | 664.61 | 332.31 | 408.64 | 204.62 | 36.80 | -2.25 | 0.030 |
| 180.00 | 0.00 | -1.04 | 0.00 | -4.17 | 0.00 | 4.17 | 654.91 | 327.45 | 396.72 | 198.65 | 37.27 | -2.26 | 0.021 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

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): | 0.18 |
| Spectral Response Acceleration at 1.0 Second Period (S_{d1}): | 0.06 |
| Long-Period Transition Period (T_L): | 6 |
| Importance Factor (I_E): | 1.50 |
| 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}): | 0.19 |
| Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}): | 0.10 |
| Seismic Response Coefficient (C_s): | 0.04 |
| Upper Limit C_s | 0.04 |
| Lower Limit C_s | 0.03 |
| Period based on Rayleigh Method (sec): | 2.66 |
| Redundancy Factor (p): | 1.30 |
| Seismic Force Distribution Exponent (k): | 2.00 |
| Total Unfactored Dead Load: | 57.93 k |
| Seismic Base Shear (E): | 2.94 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) |
|---------|---------------------------------|----------------|------------------|----------|-----------------------------|---------------------------|
| 187 | 179.50 | 50 | 1,616 | 0.003 | 9 | 62 |
| 186 | 178.50 | 51 | 1,612 | 0.003 | 9 | 63 |
| 185 | 177.50 | 51 | 1,608 | 0.003 | 9 | 63 |
| 184 | 176.50 | 51 | 1,604 | 0.003 | 9 | 64 |
| 183 | 175.50 | 52 | 1,599 | 0.003 | 9 | 64 |
| 182 | 174.50 | 52 | 1,595 | 0.003 | 9 | 65 |
| 181 | 173.50 | 53 | 1,590 | 0.003 | 9 | 65 |
| 180 | 172.50 | 53 | 1,585 | 0.003 | 9 | 66 |
| 179 | 171.50 | 54 | 1,579 | 0.003 | 9 | 66 |
| 178 | 170.50 | 54 | 1,574 | 0.003 | 9 | 67 |
| 177 | 169.50 | 55 | 1,568 | 0.003 | 9 | 68 |
| 176 | 168.50 | 55 | 1,563 | 0.003 | 9 | 68 |
| 175 | 167.50 | 55 | 1,557 | 0.003 | 9 | 69 |
| 174 | 166.50 | 67 | 1,851 | 0.004 | 11 | 83 |
| 173 | 165.50 | 67 | 1,841 | 0.004 | 11 | 83 |
| 172 | 164.50 | 68 | 1,831 | 0.004 | 10 | 84 |
| 171 | 163.50 | 68 | 1,820 | 0.004 | 10 | 84 |
| 170 | 162.50 | 69 | 1,810 | 0.004 | 10 | 85 |
| 169 | 161.50 | 69 | 1,799 | 0.003 | 10 | 85 |
| 168 | 160.50 | 69 | 1,788 | 0.003 | 10 | 86 |
| 167 | 159.50 | 70 | 1,778 | 0.003 | 10 | 86 |
| 166 | 158.50 | 70 | 1,767 | 0.003 | 10 | 87 |
| 165 | 157.50 | 71 | 1,755 | 0.003 | 10 | 88 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | |
|-----|--------|-----|-------|-------|----|-----|
| 164 | 156.50 | 71 | 1,744 | 0.003 | 10 | 88 |
| 163 | 155.50 | 72 | 1,733 | 0.003 | 10 | 89 |
| 162 | 154.50 | 72 | 1,721 | 0.003 | 10 | 89 |
| 161 | 153.50 | 73 | 1,709 | 0.003 | 10 | 90 |
| 160 | 152.50 | 73 | 1,697 | 0.003 | 10 | 90 |
| 159 | 151.50 | 73 | 1,685 | 0.003 | 10 | 91 |
| 158 | 150.50 | 74 | 1,673 | 0.003 | 10 | 91 |
| 157 | 149.50 | 75 | 1,679 | 0.003 | 10 | 93 |
| 156 | 148.50 | 76 | 1,667 | 0.003 | 10 | 94 |
| 155 | 147.50 | 76 | 1,654 | 0.003 | 9 | 94 |
| 154 | 146.50 | 76 | 1,641 | 0.003 | 9 | 95 |
| 153 | 145.50 | 77 | 1,628 | 0.003 | 9 | 95 |
| 152 | 144.50 | 77 | 1,615 | 0.003 | 9 | 96 |
| 151 | 143.50 | 78 | 1,602 | 0.003 | 9 | 96 |
| 150 | 142.50 | 78 | 1,589 | 0.003 | 9 | 97 |
| 149 | 141.50 | 79 | 1,576 | 0.003 | 9 | 97 |
| 148 | 140.50 | 79 | 1,562 | 0.003 | 9 | 98 |
| 147 | 139.50 | 85 | 1,657 | 0.003 | 9 | 105 |
| 146 | 138.50 | 86 | 1,642 | 0.003 | 9 | 106 |
| 145 | 137.50 | 86 | 1,626 | 0.003 | 9 | 106 |
| 144 | 136.50 | 86 | 1,611 | 0.003 | 9 | 107 |
| 143 | 135.93 | 11 | 209 | 0.000 | 1 | 14 |
| 142 | 135.43 | 146 | 2,684 | 0.005 | 15 | 181 |
| 141 | 134.50 | 173 | 3,131 | 0.006 | 18 | 214 |
| 140 | 133.50 | 174 | 3,106 | 0.006 | 18 | 216 |
| 139 | 132.56 | 154 | 2,712 | 0.005 | 16 | 191 |
| 138 | 132.06 | 15 | 260 | 0.001 | 1 | 18 |
| 137 | 131.50 | 125 | 2,163 | 0.004 | 12 | 155 |
| 136 | 130.50 | 126 | 2,143 | 0.004 | 12 | 156 |
| 135 | 129.50 | 127 | 2,122 | 0.004 | 12 | 157 |
| 134 | 128.50 | 127 | 2,102 | 0.004 | 12 | 158 |
| 133 | 127.50 | 128 | 2,081 | 0.004 | 12 | 158 |
| 132 | 126.50 | 129 | 2,061 | 0.004 | 12 | 159 |
| 131 | 125.50 | 130 | 2,040 | 0.004 | 12 | 160 |
| 130 | 124.50 | 136 | 2,115 | 0.004 | 12 | 169 |
| 129 | 123.50 | 137 | 2,093 | 0.004 | 12 | 170 |
| 128 | 122.50 | 138 | 2,070 | 0.004 | 12 | 171 |
| 127 | 121.50 | 139 | 2,047 | 0.004 | 12 | 172 |
| 126 | 120.50 | 139 | 2,025 | 0.004 | 12 | 173 |
| 125 | 119.50 | 140 | 2,002 | 0.004 | 11 | 174 |
| 124 | 118.50 | 141 | 1,979 | 0.004 | 11 | 174 |
| 123 | 117.50 | 142 | 1,956 | 0.004 | 11 | 175 |
| 122 | 116.50 | 142 | 1,933 | 0.004 | 11 | 176 |
| 121 | 115.50 | 143 | 1,910 | 0.004 | 11 | 177 |
| 120 | 114.50 | 144 | 1,886 | 0.004 | 11 | 178 |
| 119 | 113.50 | 145 | 1,863 | 0.004 | 11 | 179 |
| 118 | 112.50 | 167 | 2,112 | 0.004 | 12 | 207 |
| 117 | 111.50 | 197 | 2,445 | 0.005 | 14 | 243 |
| 116 | 110.50 | 197 | 2,410 | 0.005 | 14 | 244 |
| 115 | 109.50 | 198 | 2,376 | 0.005 | 14 | 245 |
| 114 | 108.50 | 199 | 2,341 | 0.005 | 13 | 246 |
| 113 | 107.50 | 200 | 2,307 | 0.004 | 13 | 247 |
| 112 | 106.50 | 200 | 2,273 | 0.004 | 13 | 248 |
| 111 | 105.50 | 201 | 2,238 | 0.004 | 13 | 249 |
| 110 | 104.50 | 207 | 2,258 | 0.004 | 13 | 256 |
| 109 | 103.88 | 52 | 559 | 0.001 | 3 | 64 |
| 108 | 103.38 | 206 | 2,199 | 0.004 | 13 | 255 |
| 107 | 102.50 | 275 | 2,890 | 0.006 | 17 | 340 |
| 106 | 101.50 | 276 | 2,841 | 0.006 | 16 | 341 |
| 105 | 100.50 | 277 | 2,793 | 0.005 | 16 | 342 |
| 104 | 99.50 | 277 | 2,745 | 0.005 | 16 | 343 |
| 103 | 98.50 | 278 | 2,697 | 0.005 | 15 | 344 |
| 102 | 97.50 | 279 | 2,650 | 0.005 | 15 | 345 |
| 101 | 96.50 | 279 | 2,603 | 0.005 | 15 | 346 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | |
|-----|-------|-----|-------|-------|----|-----|
| 100 | 95.50 | 281 | 2,563 | 0.005 | 15 | 348 |
| 99 | 94.50 | 282 | 2,516 | 0.005 | 14 | 349 |
| 98 | 93.50 | 283 | 2,470 | 0.005 | 14 | 350 |
| 97 | 92.73 | 154 | 1,323 | 0.003 | 8 | 190 |
| 96 | 92.23 | 190 | 1,618 | 0.003 | 9 | 235 |
| 95 | 91.50 | 418 | 3,498 | 0.007 | 20 | 517 |
| 94 | 90.50 | 419 | 3,436 | 0.007 | 20 | 519 |
| 93 | 89.50 | 421 | 3,373 | 0.007 | 19 | 521 |
| 92 | 88.50 | 423 | 3,311 | 0.006 | 19 | 523 |
| 91 | 87.77 | 195 | 1,503 | 0.003 | 9 | 241 |
| 90 | 87.27 | 166 | 1,265 | 0.002 | 7 | 206 |
| 89 | 86.50 | 308 | 2,308 | 0.004 | 13 | 382 |
| 88 | 85.50 | 309 | 2,261 | 0.004 | 13 | 383 |
| 87 | 84.50 | 310 | 2,215 | 0.004 | 13 | 384 |
| 86 | 83.50 | 311 | 2,169 | 0.004 | 12 | 385 |
| 85 | 82.50 | 312 | 2,123 | 0.004 | 12 | 386 |
| 84 | 81.50 | 313 | 2,078 | 0.004 | 12 | 387 |
| 83 | 80.50 | 314 | 2,033 | 0.004 | 12 | 388 |
| 82 | 79.50 | 315 | 1,989 | 0.004 | 11 | 389 |
| 81 | 78.50 | 316 | 1,945 | 0.004 | 11 | 391 |
| 80 | 77.50 | 317 | 1,901 | 0.004 | 11 | 392 |
| 79 | 76.50 | 317 | 1,858 | 0.004 | 11 | 393 |
| 78 | 75.50 | 318 | 1,815 | 0.004 | 10 | 394 |
| 77 | 74.50 | 319 | 1,772 | 0.003 | 10 | 395 |
| 76 | 73.50 | 320 | 1,729 | 0.003 | 10 | 396 |
| 75 | 72.50 | 321 | 1,687 | 0.003 | 10 | 397 |
| 74 | 71.50 | 322 | 1,646 | 0.003 | 9 | 398 |
| 73 | 70.50 | 323 | 1,604 | 0.003 | 9 | 400 |
| 72 | 69.50 | 324 | 1,564 | 0.003 | 9 | 401 |
| 71 | 68.50 | 325 | 1,523 | 0.003 | 9 | 402 |
| 70 | 67.50 | 325 | 1,483 | 0.003 | 8 | 403 |
| 69 | 66.50 | 326 | 1,443 | 0.003 | 8 | 404 |
| 68 | 65.50 | 327 | 1,404 | 0.003 | 8 | 405 |
| 67 | 64.50 | 328 | 1,365 | 0.003 | 8 | 406 |
| 66 | 63.50 | 329 | 1,327 | 0.003 | 8 | 407 |
| 65 | 62.50 | 330 | 1,289 | 0.003 | 7 | 408 |
| 64 | 61.50 | 331 | 1,251 | 0.002 | 7 | 409 |
| 63 | 60.50 | 332 | 1,214 | 0.002 | 7 | 411 |
| 62 | 59.50 | 333 | 1,177 | 0.002 | 7 | 412 |
| 61 | 58.50 | 333 | 1,141 | 0.002 | 7 | 413 |
| 60 | 57.50 | 334 | 1,105 | 0.002 | 6 | 414 |
| 59 | 56.50 | 335 | 1,070 | 0.002 | 6 | 415 |
| 58 | 55.50 | 336 | 1,035 | 0.002 | 6 | 416 |
| 57 | 54.50 | 337 | 1,001 | 0.002 | 6 | 417 |
| 56 | 53.50 | 338 | 967 | 0.002 | 6 | 418 |
| 55 | 52.50 | 339 | 934 | 0.002 | 5 | 419 |
| 54 | 51.50 | 340 | 901 | 0.002 | 5 | 420 |
| 53 | 50.50 | 341 | 869 | 0.002 | 5 | 422 |
| 52 | 49.52 | 328 | 804 | 0.002 | 5 | 406 |
| 51 | 49.02 | 21 | 52 | 0.000 | 0 | 27 |
| 50 | 48.50 | 539 | 1,268 | 0.002 | 7 | 667 |
| 49 | 47.50 | 541 | 1,221 | 0.002 | 7 | 670 |
| 48 | 46.50 | 543 | 1,174 | 0.002 | 7 | 672 |
| 47 | 45.50 | 545 | 1,128 | 0.002 | 6 | 675 |
| 46 | 44.50 | 547 | 1,083 | 0.002 | 6 | 677 |
| 45 | 43.50 | 549 | 1,039 | 0.002 | 6 | 679 |
| 44 | 42.98 | 24 | 44 | 0.000 | 0 | 30 |
| 43 | 42.48 | 357 | 645 | 0.001 | 4 | 442 |
| 42 | 41.50 | 374 | 645 | 0.001 | 4 | 463 |
| 41 | 40.50 | 375 | 616 | 0.001 | 4 | 465 |
| 40 | 39.50 | 377 | 587 | 0.001 | 3 | 466 |
| 39 | 38.50 | 378 | 560 | 0.001 | 3 | 467 |
| 38 | 37.50 | 379 | 532 | 0.001 | 3 | 469 |
| 37 | 36.50 | 380 | 506 | 0.001 | 3 | 470 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | |
|----------------------|--------|-------|--------|-------|-----|-------|
| 36 | 35.50 | 381 | 480 | 0.001 | 3 | 471 |
| 35 | 34.50 | 382 | 454 | 0.001 | 3 | 472 |
| 34 | 33.50 | 383 | 430 | 0.001 | 2 | 474 |
| 33 | 32.50 | 384 | 405 | 0.001 | 2 | 475 |
| 32 | 31.50 | 385 | 382 | 0.001 | 2 | 476 |
| 31 | 30.50 | 386 | 359 | 0.001 | 2 | 478 |
| 30 | 29.50 | 387 | 337 | 0.001 | 2 | 479 |
| 29 | 28.50 | 388 | 315 | 0.001 | 2 | 481 |
| 28 | 27.50 | 389 | 294 | 0.001 | 2 | 482 |
| 27 | 26.50 | 390 | 274 | 0.001 | 2 | 483 |
| 26 | 25.50 | 391 | 254 | 0.000 | 1 | 484 |
| 25 | 24.50 | 392 | 236 | 0.000 | 1 | 486 |
| 24 | 23.50 | 393 | 217 | 0.000 | 1 | 487 |
| 23 | 22.50 | 394 | 200 | 0.000 | 1 | 488 |
| 22 | 21.50 | 396 | 183 | 0.000 | 1 | 490 |
| 21 | 20.50 | 397 | 167 | 0.000 | 1 | 491 |
| 20 | 19.50 | 398 | 151 | 0.000 | 1 | 492 |
| 19 | 18.50 | 399 | 136 | 0.000 | 1 | 493 |
| 18 | 17.50 | 400 | 122 | 0.000 | 1 | 495 |
| 17 | 16.50 | 401 | 109 | 0.000 | 1 | 496 |
| 16 | 15.50 | 402 | 97 | 0.000 | 1 | 497 |
| 15 | 14.50 | 403 | 85 | 0.000 | 0 | 499 |
| 14 | 13.50 | 404 | 74 | 0.000 | 0 | 500 |
| 13 | 12.50 | 405 | 63 | 0.000 | 0 | 501 |
| 12 | 11.50 | 406 | 54 | 0.000 | 0 | 502 |
| 11 | 10.50 | 407 | 45 | 0.000 | 0 | 504 |
| 10 | 9.50 | 408 | 37 | 0.000 | 0 | 505 |
| 9 | 8.50 | 409 | 30 | 0.000 | 0 | 506 |
| 8 | 7.50 | 410 | 23 | 0.000 | 0 | 508 |
| 7 | 6.50 | 411 | 17 | 0.000 | 0 | 509 |
| 6 | 5.50 | 412 | 12 | 0.000 | 0 | 510 |
| 5 | 4.50 | 413 | 8 | 0.000 | 0 | 511 |
| 4 | 3.50 | 414 | 5 | 0.000 | 0 | 513 |
| 3 | 2.50 | 415 | 3 | 0.000 | 0 | 514 |
| 2 | 1.50 | 416 | 1 | 0.000 | 0 | 515 |
| 1 | 0.50 | 417 | 0 | 0.000 | 0 | 517 |
| Andrew ABT-DMDF-ADBH | 180.00 | 1 | 36 | 0.000 | 0 | 1 |
| Powerwave Allgon TT1 | 180.00 | 48 | 1,555 | 0.003 | 9 | 59 |
| 4' Omni | 180.00 | 10 | 324 | 0.001 | 2 | 12 |
| Powerwave Allgon LGP | 180.00 | 42 | 1,371 | 0.003 | 8 | 52 |
| Raycap DC6-48-60-18- | 180.00 | 40 | 1,296 | 0.003 | 7 | 50 |
| Ericsson RRUS 11 (Ba | 180.00 | 150 | 4,860 | 0.009 | 28 | 186 |
| Ericsson RRUS 32 (50 | 180.00 | 152 | 4,938 | 0.010 | 28 | 189 |
| Ericsson RRUS-12 B2 | 180.00 | 174 | 5,638 | 0.011 | 32 | 215 |
| Powerwave Allgon 777 | 180.00 | 105 | 3,402 | 0.007 | 19 | 130 |
| KMW AM-X-CD-16-65-00 | 180.00 | 146 | 4,714 | 0.009 | 27 | 180 |
| CCI HPA-65R-BUU-H6 | 180.00 | 153 | 4,957 | 0.010 | 28 | 189 |
| Flat Low Profile Pla | 180.00 | 1,500 | 48,600 | 0.094 | 278 | 1,857 |
| Ericsson KRY 112 144 | 167.00 | 33 | 920 | 0.002 | 5 | 41 |
| Ericsson AIR 21, 1.3 | 167.00 | 249 | 6,944 | 0.014 | 40 | 308 |
| Ericsson AIR 21, 1.3 | 167.00 | 244 | 6,819 | 0.013 | 39 | 303 |
| Round T-Arm | 167.00 | 750 | 20,917 | 0.041 | 120 | 928 |
| Sinclair SD210-SF2P4 | 150.00 | 8 | 187 | 0.000 | 1 | 10 |
| Round Side Arm | 150.00 | 150 | 3,375 | 0.007 | 19 | 186 |
| Telewave ANT150D (5 | 140.00 | 5 | 98 | 0.000 | 1 | 6 |
| Bird 432-83H-01-T | 140.00 | 50 | 980 | 0.002 | 6 | 62 |
| Sinclair SC432D-HF6L | 140.00 | 34 | 666 | 0.001 | 4 | 42 |
| Round Side Arm | 140.00 | 450 | 8,820 | 0.017 | 50 | 557 |
| Decibel DB809DK-XT | 140.00 | 128 | 2,509 | 0.005 | 14 | 158 |
| Alcatel-Lucent 800 M | 135.00 | 185 | 3,379 | 0.007 | 19 | 229 |
| Alcatel-Lucent 1900M | 135.00 | 132 | 2,406 | 0.005 | 14 | 163 |
| Alcatel-Lucent TD-RR | 135.00 | 210 | 3,827 | 0.007 | 22 | 260 |
| RFS APXVTM14-C-I20 | 135.00 | 159 | 2,892 | 0.006 | 17 | 196 |
| RFS APXVSPP18-C-A20 | 135.00 | 171 | 3,116 | 0.006 | 18 | 212 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | |
|----------------------|--------|--------|---------|-------|-------|--------|
| Flat Platform w/ Han | 135.00 | 2,000 | 36,450 | 0.071 | 209 | 2,476 |
| RFS FD9R6004/2C-3L (| 125.00 | 19 | 291 | 0.001 | 2 | 23 |
| Nokia B5 RRH4x40-850 | 125.00 | 146 | 2,273 | 0.004 | 13 | 180 |
| Alcatel-Lucent RRH2x | 125.00 | 170 | 2,658 | 0.005 | 15 | 211 |
| RFS DB-B1-6C-12AB-0Z | 125.00 | 21 | 334 | 0.001 | 2 | 26 |
| Alcatel-Lucent B66a | 125.00 | 201 | 3,141 | 0.006 | 18 | 249 |
| Antel LPA-80080/6CF | 125.00 | 42 | 656 | 0.001 | 4 | 52 |
| Antel LPA-80063/6CF | 125.00 | 27 | 422 | 0.001 | 2 | 33 |
| Round Low Profile PI | 125.00 | 1,500 | 23,438 | 0.046 | 134 | 1,857 |
| Decibel DB844H90E-XY | 112.00 | 168 | 2,107 | 0.004 | 12 | 208 |
| Round Low Profile PI | 112.00 | 1,500 | 18,816 | 0.037 | 108 | 1,857 |
| RFS APXV18-206517S-C | 105.00 | 79 | 873 | 0.002 | 5 | 98 |
| Andrew DB586 | 96.00 | 17 | 153 | 0.000 | 1 | 21 |
| Bird 429-83H-01-T | 96.00 | 20 | 184 | 0.000 | 1 | 25 |
| Flat Side Arm | 96.00 | 450 | 4,147 | 0.008 | 24 | 557 |
| PCTEL GPS-TMG-HR-26N | 79.00 | 1 | 4 | 0.000 | 0 | 1 |
| GPS | 30.00 | 10 | 9 | 0.000 | 0 | 12 |
| | | 57,927 | 514,371 | 1.000 | 2,944 | 71,700 |

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

Seismic (Reduced DL) Equivalent Lateral Forces Method

| Segment | Height Above Base (ft) | Weight (lb) | W _z (lb-ft) | C _{vx} | Horizontal Force (lb) | Vertical Force (lb) |
|---------|------------------------|-------------|------------------------|-----------------|-----------------------|---------------------|
| 187 | 179.50 | 50 | 1,616 | 0.003 | 9 | 43 |
| 186 | 178.50 | 51 | 1,612 | 0.003 | 9 | 44 |
| 185 | 177.50 | 51 | 1,608 | 0.003 | 9 | 44 |
| 184 | 176.50 | 51 | 1,604 | 0.003 | 9 | 44 |
| 183 | 175.50 | 52 | 1,599 | 0.003 | 9 | 45 |
| 182 | 174.50 | 52 | 1,595 | 0.003 | 9 | 45 |
| 181 | 173.50 | 53 | 1,590 | 0.003 | 9 | 46 |
| 180 | 172.50 | 53 | 1,585 | 0.003 | 9 | 46 |
| 179 | 171.50 | 54 | 1,579 | 0.003 | 9 | 46 |
| 178 | 170.50 | 54 | 1,574 | 0.003 | 9 | 47 |
| 177 | 169.50 | 55 | 1,568 | 0.003 | 9 | 47 |
| 176 | 168.50 | 55 | 1,563 | 0.003 | 9 | 47 |
| 175 | 167.50 | 55 | 1,557 | 0.003 | 9 | 48 |
| 174 | 166.50 | 67 | 1,851 | 0.004 | 11 | 58 |
| 173 | 165.50 | 67 | 1,841 | 0.004 | 11 | 58 |
| 172 | 164.50 | 68 | 1,831 | 0.004 | 10 | 58 |
| 171 | 163.50 | 68 | 1,820 | 0.004 | 10 | 59 |
| 170 | 162.50 | 69 | 1,810 | 0.004 | 10 | 59 |
| 169 | 161.50 | 69 | 1,799 | 0.003 | 10 | 59 |
| 168 | 160.50 | 69 | 1,788 | 0.003 | 10 | 60 |
| 167 | 159.50 | 70 | 1,778 | 0.003 | 10 | 60 |
| 166 | 158.50 | 70 | 1,767 | 0.003 | 10 | 61 |
| 165 | 157.50 | 71 | 1,755 | 0.003 | 10 | 61 |
| 164 | 156.50 | 71 | 1,744 | 0.003 | 10 | 61 |
| 163 | 155.50 | 72 | 1,733 | 0.003 | 10 | 62 |
| 162 | 154.50 | 72 | 1,721 | 0.003 | 10 | 62 |
| 161 | 153.50 | 73 | 1,709 | 0.003 | 10 | 63 |
| 160 | 152.50 | 73 | 1,697 | 0.003 | 10 | 63 |
| 159 | 151.50 | 73 | 1,685 | 0.003 | 10 | 63 |
| 158 | 150.50 | 74 | 1,673 | 0.003 | 10 | 64 |
| 157 | 149.50 | 75 | 1,679 | 0.003 | 10 | 65 |
| 156 | 148.50 | 76 | 1,667 | 0.003 | 10 | 65 |
| 155 | 147.50 | 76 | 1,654 | 0.003 | 9 | 66 |
| 154 | 146.50 | 76 | 1,641 | 0.003 | 9 | 66 |
| 153 | 145.50 | 77 | 1,628 | 0.003 | 9 | 66 |
| 152 | 144.50 | 77 | 1,615 | 0.003 | 9 | 67 |
| 151 | 143.50 | 78 | 1,602 | 0.003 | 9 | 67 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | |
|-----|--------|-----|-------|-------|----|-----|
| 150 | 142.50 | 78 | 1,589 | 0.003 | 9 | 67 |
| 149 | 141.50 | 79 | 1,576 | 0.003 | 9 | 68 |
| 148 | 140.50 | 79 | 1,562 | 0.003 | 9 | 68 |
| 147 | 139.50 | 85 | 1,657 | 0.003 | 9 | 73 |
| 146 | 138.50 | 86 | 1,642 | 0.003 | 9 | 74 |
| 145 | 137.50 | 86 | 1,626 | 0.003 | 9 | 74 |
| 144 | 136.50 | 86 | 1,611 | 0.003 | 9 | 75 |
| 143 | 135.93 | 11 | 209 | 0.000 | 1 | 10 |
| 142 | 135.43 | 146 | 2,684 | 0.005 | 15 | 126 |
| 141 | 134.50 | 173 | 3,131 | 0.006 | 18 | 149 |
| 140 | 133.50 | 174 | 3,106 | 0.006 | 18 | 150 |
| 139 | 132.56 | 154 | 2,712 | 0.005 | 16 | 133 |
| 138 | 132.06 | 15 | 260 | 0.001 | 1 | 13 |
| 137 | 131.50 | 125 | 2,163 | 0.004 | 12 | 108 |
| 136 | 130.50 | 126 | 2,143 | 0.004 | 12 | 108 |
| 135 | 129.50 | 127 | 2,122 | 0.004 | 12 | 109 |
| 134 | 128.50 | 127 | 2,102 | 0.004 | 12 | 110 |
| 133 | 127.50 | 128 | 2,081 | 0.004 | 12 | 110 |
| 132 | 126.50 | 129 | 2,061 | 0.004 | 12 | 111 |
| 131 | 125.50 | 130 | 2,040 | 0.004 | 12 | 112 |
| 130 | 124.50 | 136 | 2,115 | 0.004 | 12 | 118 |
| 129 | 123.50 | 137 | 2,093 | 0.004 | 12 | 118 |
| 128 | 122.50 | 138 | 2,070 | 0.004 | 12 | 119 |
| 127 | 121.50 | 139 | 2,047 | 0.004 | 12 | 120 |
| 126 | 120.50 | 139 | 2,025 | 0.004 | 12 | 120 |
| 125 | 119.50 | 140 | 2,002 | 0.004 | 11 | 121 |
| 124 | 118.50 | 141 | 1,979 | 0.004 | 11 | 122 |
| 123 | 117.50 | 142 | 1,956 | 0.004 | 11 | 122 |
| 122 | 116.50 | 142 | 1,933 | 0.004 | 11 | 123 |
| 121 | 115.50 | 143 | 1,910 | 0.004 | 11 | 123 |
| 120 | 114.50 | 144 | 1,886 | 0.004 | 11 | 124 |
| 119 | 113.50 | 145 | 1,863 | 0.004 | 11 | 125 |
| 118 | 112.50 | 167 | 2,112 | 0.004 | 12 | 144 |
| 117 | 111.50 | 197 | 2,445 | 0.005 | 14 | 170 |
| 116 | 110.50 | 197 | 2,410 | 0.005 | 14 | 170 |
| 115 | 109.50 | 198 | 2,376 | 0.005 | 14 | 171 |
| 114 | 108.50 | 199 | 2,341 | 0.005 | 13 | 171 |
| 113 | 107.50 | 200 | 2,307 | 0.004 | 13 | 172 |
| 112 | 106.50 | 200 | 2,273 | 0.004 | 13 | 173 |
| 111 | 105.50 | 201 | 2,238 | 0.004 | 13 | 173 |
| 110 | 104.50 | 207 | 2,258 | 0.004 | 13 | 178 |
| 109 | 103.88 | 52 | 559 | 0.001 | 3 | 45 |
| 108 | 103.38 | 206 | 2,199 | 0.004 | 13 | 177 |
| 107 | 102.50 | 275 | 2,890 | 0.006 | 17 | 237 |
| 106 | 101.50 | 276 | 2,841 | 0.006 | 16 | 238 |
| 105 | 100.50 | 277 | 2,793 | 0.005 | 16 | 238 |
| 104 | 99.50 | 277 | 2,745 | 0.005 | 16 | 239 |
| 103 | 98.50 | 278 | 2,697 | 0.005 | 15 | 240 |
| 102 | 97.50 | 279 | 2,650 | 0.005 | 15 | 240 |
| 101 | 96.50 | 279 | 2,603 | 0.005 | 15 | 241 |
| 100 | 95.50 | 281 | 2,563 | 0.005 | 15 | 242 |
| 99 | 94.50 | 282 | 2,516 | 0.005 | 14 | 243 |
| 98 | 93.50 | 283 | 2,470 | 0.005 | 14 | 244 |
| 97 | 92.73 | 154 | 1,323 | 0.003 | 8 | 133 |
| 96 | 92.23 | 190 | 1,618 | 0.003 | 9 | 164 |
| 95 | 91.50 | 418 | 3,498 | 0.007 | 20 | 360 |
| 94 | 90.50 | 419 | 3,436 | 0.007 | 20 | 362 |
| 93 | 89.50 | 421 | 3,373 | 0.007 | 19 | 363 |
| 92 | 88.50 | 423 | 3,311 | 0.006 | 19 | 364 |
| 91 | 87.77 | 195 | 1,503 | 0.003 | 9 | 168 |
| 90 | 87.27 | 166 | 1,265 | 0.002 | 7 | 143 |
| 89 | 86.50 | 308 | 2,308 | 0.004 | 13 | 266 |
| 88 | 85.50 | 309 | 2,261 | 0.004 | 13 | 267 |
| 87 | 84.50 | 310 | 2,215 | 0.004 | 13 | 267 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | |
|----|-------|-----|-------|-------|----|-----|
| 86 | 83.50 | 311 | 2,169 | 0.004 | 12 | 268 |
| 85 | 82.50 | 312 | 2,123 | 0.004 | 12 | 269 |
| 84 | 81.50 | 313 | 2,078 | 0.004 | 12 | 270 |
| 83 | 80.50 | 314 | 2,033 | 0.004 | 12 | 271 |
| 82 | 79.50 | 315 | 1,989 | 0.004 | 11 | 271 |
| 81 | 78.50 | 316 | 1,945 | 0.004 | 11 | 272 |
| 80 | 77.50 | 317 | 1,901 | 0.004 | 11 | 273 |
| 79 | 76.50 | 317 | 1,858 | 0.004 | 11 | 274 |
| 78 | 75.50 | 318 | 1,815 | 0.004 | 10 | 275 |
| 77 | 74.50 | 319 | 1,772 | 0.003 | 10 | 275 |
| 76 | 73.50 | 320 | 1,729 | 0.003 | 10 | 276 |
| 75 | 72.50 | 321 | 1,687 | 0.003 | 10 | 277 |
| 74 | 71.50 | 322 | 1,646 | 0.003 | 9 | 278 |
| 73 | 70.50 | 323 | 1,604 | 0.003 | 9 | 278 |
| 72 | 69.50 | 324 | 1,564 | 0.003 | 9 | 279 |
| 71 | 68.50 | 325 | 1,523 | 0.003 | 9 | 280 |
| 70 | 67.50 | 325 | 1,483 | 0.003 | 8 | 281 |
| 69 | 66.50 | 326 | 1,443 | 0.003 | 8 | 281 |
| 68 | 65.50 | 327 | 1,404 | 0.003 | 8 | 282 |
| 67 | 64.50 | 328 | 1,365 | 0.003 | 8 | 283 |
| 66 | 63.50 | 329 | 1,327 | 0.003 | 8 | 284 |
| 65 | 62.50 | 330 | 1,289 | 0.003 | 7 | 284 |
| 64 | 61.50 | 331 | 1,251 | 0.002 | 7 | 285 |
| 63 | 60.50 | 332 | 1,214 | 0.002 | 7 | 286 |
| 62 | 59.50 | 333 | 1,177 | 0.002 | 7 | 287 |
| 61 | 58.50 | 333 | 1,141 | 0.002 | 7 | 288 |
| 60 | 57.50 | 334 | 1,105 | 0.002 | 6 | 288 |
| 59 | 56.50 | 335 | 1,070 | 0.002 | 6 | 289 |
| 58 | 55.50 | 336 | 1,035 | 0.002 | 6 | 290 |
| 57 | 54.50 | 337 | 1,001 | 0.002 | 6 | 291 |
| 56 | 53.50 | 338 | 967 | 0.002 | 6 | 291 |
| 55 | 52.50 | 339 | 934 | 0.002 | 5 | 292 |
| 54 | 51.50 | 340 | 901 | 0.002 | 5 | 293 |
| 53 | 50.50 | 341 | 869 | 0.002 | 5 | 294 |
| 52 | 49.52 | 328 | 804 | 0.002 | 5 | 283 |
| 51 | 49.02 | 21 | 52 | 0.000 | 0 | 19 |
| 50 | 48.50 | 539 | 1,268 | 0.002 | 7 | 465 |
| 49 | 47.50 | 541 | 1,221 | 0.002 | 7 | 467 |
| 48 | 46.50 | 543 | 1,174 | 0.002 | 7 | 468 |
| 47 | 45.50 | 545 | 1,128 | 0.002 | 6 | 470 |
| 46 | 44.50 | 547 | 1,083 | 0.002 | 6 | 472 |
| 45 | 43.50 | 549 | 1,039 | 0.002 | 6 | 473 |
| 44 | 42.98 | 24 | 44 | 0.000 | 0 | 21 |
| 43 | 42.48 | 357 | 645 | 0.001 | 4 | 308 |
| 42 | 41.50 | 374 | 645 | 0.001 | 4 | 323 |
| 41 | 40.50 | 375 | 616 | 0.001 | 4 | 324 |
| 40 | 39.50 | 377 | 587 | 0.001 | 3 | 325 |
| 39 | 38.50 | 378 | 560 | 0.001 | 3 | 326 |
| 38 | 37.50 | 379 | 532 | 0.001 | 3 | 326 |
| 37 | 36.50 | 380 | 506 | 0.001 | 3 | 327 |
| 36 | 35.50 | 381 | 480 | 0.001 | 3 | 328 |
| 35 | 34.50 | 382 | 454 | 0.001 | 3 | 329 |
| 34 | 33.50 | 383 | 430 | 0.001 | 2 | 330 |
| 33 | 32.50 | 384 | 405 | 0.001 | 2 | 331 |
| 32 | 31.50 | 385 | 382 | 0.001 | 2 | 332 |
| 31 | 30.50 | 386 | 359 | 0.001 | 2 | 333 |
| 30 | 29.50 | 387 | 337 | 0.001 | 2 | 334 |
| 29 | 28.50 | 388 | 315 | 0.001 | 2 | 335 |
| 28 | 27.50 | 389 | 294 | 0.001 | 2 | 336 |
| 27 | 26.50 | 390 | 274 | 0.001 | 2 | 337 |
| 26 | 25.50 | 391 | 254 | 0.000 | 1 | 337 |
| 25 | 24.50 | 392 | 236 | 0.000 | 1 | 338 |
| 24 | 23.50 | 393 | 217 | 0.000 | 1 | 339 |
| 23 | 22.50 | 394 | 200 | 0.000 | 1 | 340 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | |
|----------------------|--------|-------|--------|-------|-----|-------|
| 22 | 21.50 | 396 | 183 | 0.000 | 1 | 341 |
| 21 | 20.50 | 397 | 167 | 0.000 | 1 | 342 |
| 20 | 19.50 | 398 | 151 | 0.000 | 1 | 343 |
| 19 | 18.50 | 399 | 136 | 0.000 | 1 | 344 |
| 18 | 17.50 | 400 | 122 | 0.000 | 1 | 345 |
| 17 | 16.50 | 401 | 109 | 0.000 | 1 | 346 |
| 16 | 15.50 | 402 | 97 | 0.000 | 1 | 346 |
| 15 | 14.50 | 403 | 85 | 0.000 | 0 | 347 |
| 14 | 13.50 | 404 | 74 | 0.000 | 0 | 348 |
| 13 | 12.50 | 405 | 63 | 0.000 | 0 | 349 |
| 12 | 11.50 | 406 | 54 | 0.000 | 0 | 350 |
| 11 | 10.50 | 407 | 45 | 0.000 | 0 | 351 |
| 10 | 9.50 | 408 | 37 | 0.000 | 0 | 352 |
| 9 | 8.50 | 409 | 30 | 0.000 | 0 | 353 |
| 8 | 7.50 | 410 | 23 | 0.000 | 0 | 354 |
| 7 | 6.50 | 411 | 17 | 0.000 | 0 | 354 |
| 6 | 5.50 | 412 | 12 | 0.000 | 0 | 355 |
| 5 | 4.50 | 413 | 8 | 0.000 | 0 | 356 |
| 4 | 3.50 | 414 | 5 | 0.000 | 0 | 357 |
| 3 | 2.50 | 415 | 3 | 0.000 | 0 | 358 |
| 2 | 1.50 | 416 | 1 | 0.000 | 0 | 359 |
| 1 | 0.50 | 417 | 0 | 0.000 | 0 | 360 |
| Andrew ABT-DMDF-ADBH | 180.00 | 1 | 36 | 0.000 | 0 | 1 |
| Powerwave Allgon TT1 | 180.00 | 48 | 1,555 | 0.003 | 9 | 41 |
| 4' Omni | 180.00 | 10 | 324 | 0.001 | 2 | 9 |
| Powerwave Allgon LGP | 180.00 | 42 | 1,371 | 0.003 | 8 | 36 |
| Raycap DC6-48-60-18- | 180.00 | 40 | 1,296 | 0.003 | 7 | 34 |
| Ericsson RRUS 11 (Ba | 180.00 | 150 | 4,860 | 0.009 | 28 | 129 |
| Ericsson RRUS 32 (50 | 180.00 | 152 | 4,938 | 0.010 | 28 | 131 |
| Ericsson RRUS-12 B2 | 180.00 | 174 | 5,638 | 0.011 | 32 | 150 |
| Powerwave Allgon 777 | 180.00 | 105 | 3,402 | 0.007 | 19 | 91 |
| KMW AM-X-CD-16-65-00 | 180.00 | 146 | 4,714 | 0.009 | 27 | 125 |
| CCI HPA-65R-BUU-H6 | 180.00 | 153 | 4,957 | 0.010 | 28 | 132 |
| Flat Low Profile Pla | 180.00 | 1,500 | 48,600 | 0.094 | 278 | 1,293 |
| Ericsson KRY 112 144 | 167.00 | 33 | 920 | 0.002 | 5 | 28 |
| Ericsson AIR 21, 1.3 | 167.00 | 249 | 6,944 | 0.014 | 40 | 215 |
| Ericsson AIR 21, 1.3 | 167.00 | 244 | 6,819 | 0.013 | 39 | 211 |
| Round T-Arm | 167.00 | 750 | 20,917 | 0.041 | 120 | 647 |
| Sinclair SD210-SF2P4 | 150.00 | 8 | 187 | 0.000 | 1 | 7 |
| Round Side Arm | 150.00 | 150 | 3,375 | 0.007 | 19 | 129 |
| Telewave ANT150D (5 | 140.00 | 5 | 98 | 0.000 | 1 | 4 |
| Bird 432-83H-01-T | 140.00 | 50 | 980 | 0.002 | 6 | 43 |
| Sinclair SC432D-HF6L | 140.00 | 34 | 666 | 0.001 | 4 | 29 |
| Round Side Arm | 140.00 | 450 | 8,820 | 0.017 | 50 | 388 |
| Decibel DB809DK-XT | 140.00 | 128 | 2,509 | 0.005 | 14 | 110 |
| Alcatel-Lucent 800 M | 135.00 | 185 | 3,379 | 0.007 | 19 | 160 |
| Alcatel-Lucent 1900M | 135.00 | 132 | 2,406 | 0.005 | 14 | 114 |
| Alcatel-Lucent TD-RR | 135.00 | 210 | 3,827 | 0.007 | 22 | 181 |
| RFS APXVTM14-C-I20 | 135.00 | 159 | 2,892 | 0.006 | 17 | 137 |
| RFS APXVSPP18-C-A20 | 135.00 | 171 | 3,116 | 0.006 | 18 | 147 |
| Flat Platform w/ Han | 135.00 | 2,000 | 36,450 | 0.071 | 209 | 1,724 |
| RFS FD9R6004/2C-3L (| 125.00 | 19 | 291 | 0.001 | 2 | 16 |
| Nokia B5 RRH4x40-850 | 125.00 | 146 | 2,273 | 0.004 | 13 | 125 |
| Alcatel-Lucent RRH2x | 125.00 | 170 | 2,658 | 0.005 | 15 | 147 |
| RFS DB-B1-6C-12AB-OZ | 125.00 | 21 | 334 | 0.001 | 2 | 18 |
| Alcatel-Lucent B66a | 125.00 | 201 | 3,141 | 0.006 | 18 | 173 |
| Antel LPA-80080/6CF | 125.00 | 42 | 656 | 0.001 | 4 | 36 |
| Antel LPA-80063/6CF | 125.00 | 27 | 422 | 0.001 | 2 | 23 |
| Round Low Profile PI | 125.00 | 1,500 | 23,438 | 0.046 | 134 | 1,293 |
| Decibel DB844H90E-XY | 112.00 | 168 | 2,107 | 0.004 | 12 | 145 |
| Round Low Profile PI | 112.00 | 1,500 | 18,816 | 0.037 | 108 | 1,293 |
| RFS APXV18-206517S-C | 105.00 | 79 | 873 | 0.002 | 5 | 68 |
| Andrew DB586 | 96.00 | 17 | 153 | 0.000 | 1 | 14 |
| Bird 429-83H-01-T | 96.00 | 20 | 184 | 0.000 | 1 | 17 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | |
|----------------------|-------|--------|---------|-------|-------|--------|
| Flat Side Arm | 96.00 | 450 | 4,147 | 0.008 | 24 | 388 |
| PCTEL GPS-TMG-HR-26N | 79.00 | 1 | 4 | 0.000 | 0 | 1 |
| GPS | 30.00 | 10 | 9 | 0.000 | 0 | 9 |
| | | 57,927 | 514,371 | 1.000 | 2,944 | 49,947 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

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 | -71.18 | -2.94 | 0.00 | -403.05 | 0.00 | 403.05 | 5,129.98 | 2,564.99 | 11,021.5 | 5,518.96 | 0.00 | 0.00 | 0.065 |
| 1.00 | -70.67 | -2.95 | 0.00 | -400.10 | 0.00 | 400.10 | 5,115.23 | 2,557.61 | 10,943.3 | 5,479.82 | 0.00 | 0.00 | 0.065 |
| 2.00 | -70.15 | -2.95 | 0.00 | -397.15 | 0.00 | 397.15 | 5,100.42 | 2,550.21 | 10,865.3 | 5,440.75 | 0.00 | -0.01 | 0.065 |
| 3.00 | -69.64 | -2.96 | 0.00 | -394.20 | 0.00 | 394.20 | 5,085.56 | 2,542.78 | 10,787.4 | 5,401.75 | 0.00 | -0.01 | 0.064 |
| 4.00 | -69.13 | -2.96 | 0.00 | -391.25 | 0.00 | 391.25 | 5,070.64 | 2,535.32 | 10,709.7 | 5,362.83 | 0.01 | -0.01 | 0.064 |
| 5.00 | -68.62 | -2.96 | 0.00 | -388.29 | 0.00 | 388.29 | 5,055.67 | 2,527.83 | 10,632.1 | 5,323.99 | 0.01 | -0.02 | 0.064 |
| 6.00 | -68.11 | -2.97 | 0.00 | -385.32 | 0.00 | 385.32 | 5,040.63 | 2,520.32 | 10,554.7 | 5,285.22 | 0.01 | -0.02 | 0.064 |
| 7.00 | -67.60 | -2.97 | 0.00 | -382.35 | 0.00 | 382.35 | 5,025.54 | 2,512.77 | 10,477.4 | 5,246.53 | 0.02 | -0.02 | 0.064 |
| 8.00 | -67.10 | -2.98 | 0.00 | -379.38 | 0.00 | 379.38 | 5,010.40 | 2,505.20 | 10,400.3 | 5,207.92 | 0.02 | -0.03 | 0.064 |
| 9.00 | -66.59 | -2.98 | 0.00 | -376.41 | 0.00 | 376.41 | 4,995.19 | 2,497.60 | 10,323.4 | 5,169.39 | 0.03 | -0.03 | 0.064 |
| 10.00 | -66.09 | -2.98 | 0.00 | -373.43 | 0.00 | 373.43 | 4,979.93 | 2,489.97 | 10,246.6 | 5,130.93 | 0.04 | -0.03 | 0.063 |
| 11.00 | -65.58 | -2.99 | 0.00 | -370.45 | 0.00 | 370.45 | 4,964.61 | 2,482.31 | 10,170.0 | 5,092.56 | 0.04 | -0.04 | 0.063 |
| 12.00 | -65.08 | -2.99 | 0.00 | -367.46 | 0.00 | 367.46 | 4,949.24 | 2,474.62 | 10,093.5 | 5,054.27 | 0.05 | -0.04 | 0.063 |
| 13.00 | -64.58 | -2.99 | 0.00 | -364.47 | 0.00 | 364.47 | 4,933.81 | 2,466.90 | 10,017.2 | 5,016.06 | 0.06 | -0.04 | 0.063 |
| 14.00 | -64.08 | -3.00 | 0.00 | -361.48 | 0.00 | 361.48 | 4,918.32 | 2,459.16 | 9,941.08 | 4,977.93 | 0.07 | -0.05 | 0.063 |
| 15.00 | -63.59 | -3.00 | 0.00 | -358.48 | 0.00 | 358.48 | 4,902.77 | 2,451.39 | 9,865.10 | 4,939.88 | 0.08 | -0.05 | 0.063 |
| 16.00 | -63.09 | -3.00 | 0.00 | -355.49 | 0.00 | 355.49 | 4,887.17 | 2,443.58 | 9,789.30 | 4,901.92 | 0.09 | -0.06 | 0.062 |
| 17.00 | -62.60 | -3.00 | 0.00 | -352.49 | 0.00 | 352.49 | 4,871.51 | 2,435.75 | 9,713.66 | 4,864.05 | 0.10 | -0.06 | 0.062 |
| 18.00 | -62.10 | -3.01 | 0.00 | -349.48 | 0.00 | 349.48 | 4,855.79 | 2,427.89 | 9,638.20 | 4,826.26 | 0.12 | -0.06 | 0.062 |
| 19.00 | -61.61 | -3.01 | 0.00 | -346.48 | 0.00 | 346.48 | 4,840.02 | 2,420.01 | 9,562.90 | 4,788.56 | 0.13 | -0.07 | 0.062 |
| 20.00 | -61.12 | -3.01 | 0.00 | -343.47 | 0.00 | 343.47 | 4,824.18 | 2,412.09 | 9,487.79 | 4,750.94 | 0.14 | -0.07 | 0.062 |
| 21.00 | -60.63 | -3.01 | 0.00 | -340.46 | 0.00 | 340.46 | 4,808.29 | 2,404.15 | 9,412.84 | 4,713.42 | 0.16 | -0.07 | 0.062 |
| 22.00 | -60.14 | -3.02 | 0.00 | -337.44 | 0.00 | 337.44 | 4,792.35 | 2,396.17 | 9,338.08 | 4,675.98 | 0.18 | -0.08 | 0.061 |
| 23.00 | -59.65 | -3.02 | 0.00 | -334.43 | 0.00 | 334.43 | 4,776.35 | 2,388.17 | 9,263.49 | 4,638.63 | 0.19 | -0.08 | 0.061 |
| 24.00 | -59.17 | -3.02 | 0.00 | -331.41 | 0.00 | 331.41 | 4,760.29 | 2,380.14 | 9,189.09 | 4,601.37 | 0.21 | -0.08 | 0.061 |
| 25.00 | -58.68 | -3.02 | 0.00 | -328.39 | 0.00 | 328.39 | 4,744.17 | 2,372.08 | 9,114.87 | 4,564.21 | 0.23 | -0.09 | 0.061 |
| 26.00 | -58.20 | -3.02 | 0.00 | -325.37 | 0.00 | 325.37 | 4,728.00 | 2,364.00 | 9,040.83 | 4,527.13 | 0.25 | -0.09 | 0.061 |
| 27.00 | -57.72 | -3.02 | 0.00 | -322.35 | 0.00 | 322.35 | 4,711.76 | 2,355.88 | 8,966.98 | 4,490.15 | 0.27 | -0.10 | 0.060 |
| 28.00 | -57.24 | -3.02 | 0.00 | -319.33 | 0.00 | 319.33 | 4,695.48 | 2,347.74 | 8,893.31 | 4,453.26 | 0.29 | -0.10 | 0.060 |
| 29.00 | -56.76 | -3.03 | 0.00 | -316.30 | 0.00 | 316.30 | 4,679.13 | 2,339.57 | 8,819.83 | 4,416.47 | 0.31 | -0.10 | 0.060 |
| 30.00 | -56.27 | -3.03 | 0.00 | -313.28 | 0.00 | 313.28 | 4,662.73 | 2,331.36 | 8,746.54 | 4,379.77 | 0.33 | -0.11 | 0.060 |
| 31.00 | -55.79 | -3.03 | 0.00 | -310.25 | 0.00 | 310.25 | 4,646.27 | 2,323.14 | 8,673.45 | 4,343.17 | 0.35 | -0.11 | 0.060 |
| 32.00 | -55.32 | -3.03 | 0.00 | -307.22 | 0.00 | 307.22 | 4,629.75 | 2,314.88 | 8,600.55 | 4,306.67 | 0.38 | -0.11 | 0.059 |
| 33.00 | -54.84 | -3.03 | 0.00 | -304.20 | 0.00 | 304.20 | 4,613.18 | 2,306.59 | 8,527.84 | 4,270.26 | 0.40 | -0.12 | 0.059 |
| 34.00 | -54.37 | -3.03 | 0.00 | -301.17 | 0.00 | 301.17 | 4,596.55 | 2,298.27 | 8,455.33 | 4,233.95 | 0.43 | -0.12 | 0.059 |
| 35.00 | -53.90 | -3.03 | 0.00 | -298.14 | 0.00 | 298.14 | 4,579.86 | 2,289.93 | 8,383.01 | 4,197.74 | 0.45 | -0.13 | 0.059 |
| 36.00 | -53.43 | -3.03 | 0.00 | -295.12 | 0.00 | 295.12 | 4,563.12 | 2,281.56 | 8,310.90 | 4,161.63 | 0.48 | -0.13 | 0.058 |
| 37.00 | -52.96 | -3.03 | 0.00 | -292.09 | 0.00 | 292.09 | 4,546.32 | 2,273.16 | 8,238.99 | 4,125.62 | 0.51 | -0.13 | 0.058 |
| 38.00 | -52.49 | -3.02 | 0.00 | -289.07 | 0.00 | 289.07 | 4,529.46 | 2,264.73 | 8,167.27 | 4,089.71 | 0.53 | -0.14 | 0.058 |
| 39.00 | -52.03 | -3.02 | 0.00 | -286.04 | 0.00 | 286.04 | 4,512.54 | 2,256.27 | 8,095.77 | 4,053.90 | 0.56 | -0.14 | 0.058 |
| 40.00 | -51.56 | -3.02 | 0.00 | -283.02 | 0.00 | 283.02 | 4,491.22 | 2,245.61 | 8,016.71 | 4,014.31 | 0.59 | -0.14 | 0.058 |
| 41.00 | -51.10 | -3.02 | 0.00 | -280.00 | 0.00 | 280.00 | 4,468.58 | 2,234.29 | 7,935.69 | 3,973.74 | 0.62 | -0.15 | 0.057 |
| 42.00 | -50.65 | -3.02 | 0.00 | -276.97 | 0.00 | 276.97 | 4,445.95 | 2,222.97 | 7,855.09 | 3,933.38 | 0.65 | -0.15 | 0.057 |
| 42.96 | -50.62 | -3.02 | 0.00 | -274.09 | 0.00 | 274.09 | 4,424.29 | 2,212.15 | 7,778.37 | 3,894.97 | 0.69 | -0.16 | 0.057 |
| 43.00 | -49.95 | -3.02 | 0.00 | -273.95 | 0.00 | 273.95 | 4,423.31 | 2,211.65 | 7,774.90 | 3,893.23 | 0.69 | -0.16 | 0.057 |
| 44.00 | -49.27 | -3.01 | 0.00 | -270.94 | 0.00 | 270.94 | 4,400.67 | 2,200.33 | 7,695.11 | 3,853.28 | 0.72 | -0.16 | 0.056 |
| 45.00 | -48.59 | -3.01 | 0.00 | -267.93 | 0.00 | 267.93 | 4,378.03 | 2,189.01 | 7,615.75 | 3,813.53 | 0.75 | -0.16 | 0.056 |
| 46.00 | -47.92 | -3.00 | 0.00 | -264.92 | 0.00 | 264.92 | 4,355.39 | 2,177.70 | 7,536.79 | 3,773.99 | 0.79 | -0.17 | 0.056 |
| 47.00 | -47.25 | -2.99 | 0.00 | -261.92 | 0.00 | 261.92 | 4,332.75 | 2,166.38 | 7,458.24 | 3,734.66 | 0.82 | -0.17 | 0.056 |
| 48.00 | -46.58 | -2.99 | 0.00 | -258.93 | 0.00 | 258.93 | 4,310.11 | 2,155.06 | 7,380.10 | 3,695.54 | 0.86 | -0.17 | 0.055 |
| 49.00 | -46.56 | -2.99 | 0.00 | -255.94 | 0.00 | 255.94 | 4,287.47 | 2,143.74 | 7,302.38 | 3,656.62 | 0.90 | -0.18 | 0.055 |
| 49.04 | -46.15 | -2.98 | 0.00 | -255.82 | 0.00 | 255.82 | 3,622.99 | 1,811.50 | 6,300.42 | 3,154.89 | 0.90 | -0.18 | 0.062 |
| 50.00 | -45.73 | -2.98 | 0.00 | -252.96 | 0.00 | 252.96 | 3,610.23 | 1,805.12 | 6,246.74 | 3,128.01 | 0.94 | -0.18 | 0.062 |
| 51.00 | -45.31 | -2.98 | 0.00 | -249.98 | 0.00 | 249.98 | 3,596.89 | 1,798.44 | 6,190.96 | 3,100.08 | 0.97 | -0.19 | 0.061 |
| 52.00 | -44.89 | -2.97 | 0.00 | -247.00 | 0.00 | 247.00 | 3,583.49 | 1,791.74 | 6,135.33 | 3,072.23 | 1.01 | -0.19 | 0.061 |
| 53.00 | -44.47 | -2.97 | 0.00 | -244.02 | 0.00 | 244.02 | 3,570.03 | 1,785.02 | 6,079.85 | 3,044.45 | 1.05 | -0.20 | 0.061 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | | | | | | | | |
|--------|-------|-------|------|-------|------|------|--------|--------|--------|--------|-------|-------|-------|
| 176.00 | -3.30 | -0.55 | 0.00 | -2.14 | 0.00 | 2.14 | 693.72 | 346.86 | 445.44 | 223.05 | 14.65 | -0.94 | 0.014 |
| 177.00 | -3.24 | -0.54 | 0.00 | -1.59 | 0.00 | 1.59 | 684.02 | 342.01 | 433.00 | 216.82 | 14.84 | -0.94 | 0.012 |
| 178.00 | -3.17 | -0.53 | 0.00 | -1.05 | 0.00 | 1.05 | 674.31 | 337.16 | 420.73 | 210.68 | 15.04 | -0.94 | 0.010 |
| 179.00 | -3.11 | -0.52 | 0.00 | -0.52 | 0.00 | 0.52 | 664.61 | 332.31 | 408.64 | 204.62 | 15.24 | -0.94 | 0.007 |
| 180.00 | 0.00 | -0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 654.91 | 327.45 | 396.72 | 198.65 | 15.43 | -0.94 | 0.000 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

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

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 | -49.59 | -2.94 | 0.00 | -395.60 | 0.00 | 395.60 | 5,129.98 | 2,564.99 | 11,021.5 | 5,518.96 | 0.00 | 0.00 | 0.061 |
| 1.00 | -49.23 | -2.94 | 0.00 | -392.66 | 0.00 | 392.66 | 5,115.23 | 2,557.61 | 10,943.3 | 5,479.82 | 0.00 | 0.00 | 0.060 |
| 2.00 | -48.87 | -2.95 | 0.00 | -389.72 | 0.00 | 389.72 | 5,100.42 | 2,550.21 | 10,865.3 | 5,440.75 | 0.00 | -0.01 | 0.060 |
| 3.00 | -48.51 | -2.95 | 0.00 | -386.77 | 0.00 | 386.77 | 5,085.56 | 2,542.78 | 10,787.4 | 5,401.75 | 0.00 | -0.01 | 0.060 |
| 4.00 | -48.16 | -2.95 | 0.00 | -383.82 | 0.00 | 383.82 | 5,070.64 | 2,535.32 | 10,709.7 | 5,362.83 | 0.01 | -0.01 | 0.060 |
| 5.00 | -47.80 | -2.95 | 0.00 | -380.87 | 0.00 | 380.87 | 5,055.67 | 2,527.83 | 10,632.1 | 5,323.99 | 0.01 | -0.02 | 0.060 |
| 6.00 | -47.45 | -2.96 | 0.00 | -377.91 | 0.00 | 377.91 | 5,040.63 | 2,520.32 | 10,554.7 | 5,285.22 | 0.01 | -0.02 | 0.060 |
| 7.00 | -47.09 | -2.96 | 0.00 | -374.96 | 0.00 | 374.96 | 5,025.54 | 2,512.77 | 10,477.4 | 5,246.53 | 0.02 | -0.02 | 0.060 |
| 8.00 | -46.74 | -2.96 | 0.00 | -372.00 | 0.00 | 372.00 | 5,010.40 | 2,505.20 | 10,400.3 | 5,207.92 | 0.02 | -0.03 | 0.060 |
| 9.00 | -46.39 | -2.96 | 0.00 | -369.03 | 0.00 | 369.03 | 4,995.19 | 2,497.60 | 10,323.4 | 5,169.39 | 0.03 | -0.03 | 0.059 |
| 10.00 | -46.04 | -2.97 | 0.00 | -366.07 | 0.00 | 366.07 | 4,979.93 | 2,489.97 | 10,246.6 | 5,130.93 | 0.04 | -0.03 | 0.059 |
| 11.00 | -45.69 | -2.97 | 0.00 | -363.10 | 0.00 | 363.10 | 4,964.61 | 2,482.31 | 10,170.0 | 5,092.56 | 0.04 | -0.04 | 0.059 |
| 12.00 | -45.34 | -2.97 | 0.00 | -360.13 | 0.00 | 360.13 | 4,949.24 | 2,474.62 | 10,093.5 | 5,054.27 | 0.05 | -0.04 | 0.059 |
| 13.00 | -44.99 | -2.97 | 0.00 | -357.16 | 0.00 | 357.16 | 4,933.81 | 2,466.90 | 10,017.2 | 5,016.06 | 0.06 | -0.04 | 0.059 |
| 14.00 | -44.64 | -2.98 | 0.00 | -354.19 | 0.00 | 354.19 | 4,918.32 | 2,459.16 | 9,941.08 | 4,977.93 | 0.07 | -0.05 | 0.059 |
| 15.00 | -44.29 | -2.98 | 0.00 | -351.21 | 0.00 | 351.21 | 4,902.77 | 2,451.39 | 9,865.10 | 4,939.88 | 0.08 | -0.05 | 0.058 |
| 16.00 | -43.95 | -2.98 | 0.00 | -348.24 | 0.00 | 348.24 | 4,887.17 | 2,443.58 | 9,789.30 | 4,901.92 | 0.09 | -0.05 | 0.058 |
| 17.00 | -43.60 | -2.98 | 0.00 | -345.26 | 0.00 | 345.26 | 4,871.51 | 2,435.75 | 9,713.66 | 4,864.05 | 0.10 | -0.06 | 0.058 |
| 18.00 | -43.26 | -2.98 | 0.00 | -342.28 | 0.00 | 342.28 | 4,855.79 | 2,427.89 | 9,638.20 | 4,826.26 | 0.11 | -0.06 | 0.058 |
| 19.00 | -42.92 | -2.98 | 0.00 | -339.29 | 0.00 | 339.29 | 4,840.02 | 2,420.01 | 9,562.90 | 4,788.56 | 0.13 | -0.06 | 0.058 |
| 20.00 | -42.58 | -2.98 | 0.00 | -336.31 | 0.00 | 336.31 | 4,824.18 | 2,412.09 | 9,487.79 | 4,750.94 | 0.14 | -0.07 | 0.058 |
| 21.00 | -42.23 | -2.99 | 0.00 | -333.33 | 0.00 | 333.33 | 4,808.29 | 2,404.15 | 9,412.84 | 4,713.42 | 0.16 | -0.07 | 0.057 |
| 22.00 | -41.89 | -2.99 | 0.00 | -330.34 | 0.00 | 330.34 | 4,792.35 | 2,396.17 | 9,338.08 | 4,675.98 | 0.17 | -0.08 | 0.057 |
| 23.00 | -41.55 | -2.99 | 0.00 | -327.35 | 0.00 | 327.35 | 4,776.35 | 2,388.17 | 9,263.49 | 4,638.63 | 0.19 | -0.08 | 0.057 |
| 24.00 | -41.22 | -2.99 | 0.00 | -324.37 | 0.00 | 324.37 | 4,760.29 | 2,380.14 | 9,189.09 | 4,601.37 | 0.21 | -0.08 | 0.057 |
| 25.00 | -40.88 | -2.99 | 0.00 | -321.38 | 0.00 | 321.38 | 4,744.17 | 2,372.08 | 9,114.87 | 4,564.21 | 0.22 | -0.09 | 0.057 |
| 26.00 | -40.54 | -2.99 | 0.00 | -318.39 | 0.00 | 318.39 | 4,728.00 | 2,364.00 | 9,040.83 | 4,527.13 | 0.24 | -0.09 | 0.057 |
| 27.00 | -40.21 | -2.99 | 0.00 | -315.40 | 0.00 | 315.40 | 4,711.76 | 2,355.88 | 8,966.98 | 4,490.15 | 0.26 | -0.09 | 0.056 |
| 28.00 | -39.87 | -2.99 | 0.00 | -312.41 | 0.00 | 312.41 | 4,695.48 | 2,347.74 | 8,893.31 | 4,453.26 | 0.28 | -0.10 | 0.056 |
| 29.00 | -39.54 | -2.99 | 0.00 | -309.42 | 0.00 | 309.42 | 4,679.13 | 2,339.57 | 8,819.83 | 4,416.47 | 0.30 | -0.10 | 0.056 |
| 30.00 | -39.20 | -2.99 | 0.00 | -306.43 | 0.00 | 306.43 | 4,662.73 | 2,331.36 | 8,746.54 | 4,379.77 | 0.32 | -0.10 | 0.056 |
| 31.00 | -38.86 | -2.99 | 0.00 | -303.44 | 0.00 | 303.44 | 4,646.27 | 2,323.14 | 8,673.45 | 4,343.17 | 0.35 | -0.11 | 0.056 |
| 32.00 | -38.53 | -2.99 | 0.00 | -300.45 | 0.00 | 300.45 | 4,629.75 | 2,314.88 | 8,600.55 | 4,306.67 | 0.37 | -0.11 | 0.055 |
| 33.00 | -38.20 | -2.99 | 0.00 | -297.46 | 0.00 | 297.46 | 4,613.18 | 2,306.59 | 8,527.84 | 4,270.26 | 0.39 | -0.12 | 0.055 |
| 34.00 | -37.87 | -2.99 | 0.00 | -294.47 | 0.00 | 294.47 | 4,596.55 | 2,298.27 | 8,455.33 | 4,233.95 | 0.42 | -0.12 | 0.055 |
| 35.00 | -37.54 | -2.99 | 0.00 | -291.48 | 0.00 | 291.48 | 4,579.86 | 2,289.93 | 8,383.01 | 4,197.74 | 0.44 | -0.12 | 0.055 |
| 36.00 | -37.22 | -2.99 | 0.00 | -288.50 | 0.00 | 288.50 | 4,563.12 | 2,281.56 | 8,310.90 | 4,161.63 | 0.47 | -0.13 | 0.055 |
| 37.00 | -36.89 | -2.98 | 0.00 | -285.51 | 0.00 | 285.51 | 4,546.32 | 2,273.16 | 8,238.99 | 4,125.62 | 0.50 | -0.13 | 0.054 |
| 38.00 | -36.56 | -2.98 | 0.00 | -282.53 | 0.00 | 282.53 | 4,529.46 | 2,264.73 | 8,167.27 | 4,089.71 | 0.52 | -0.13 | 0.054 |
| 39.00 | -36.24 | -2.98 | 0.00 | -279.55 | 0.00 | 279.55 | 4,512.54 | 2,256.27 | 8,095.77 | 4,053.90 | 0.55 | -0.14 | 0.054 |
| 40.00 | -35.92 | -2.98 | 0.00 | -276.57 | 0.00 | 276.57 | 4,491.22 | 2,245.61 | 8,016.71 | 4,014.31 | 0.58 | -0.14 | 0.054 |
| 41.00 | -35.59 | -2.98 | 0.00 | -273.59 | 0.00 | 273.59 | 4,468.58 | 2,234.29 | 7,935.69 | 3,973.74 | 0.61 | -0.14 | 0.054 |
| 42.00 | -35.28 | -2.97 | 0.00 | -270.61 | 0.00 | 270.61 | 4,445.95 | 2,222.97 | 7,855.09 | 3,933.38 | 0.64 | -0.15 | 0.053 |
| 42.96 | -35.26 | -2.98 | 0.00 | -267.77 | 0.00 | 267.77 | 4,424.29 | 2,212.15 | 7,778.37 | 3,894.97 | 0.67 | -0.15 | 0.053 |
| 43.00 | -34.79 | -2.97 | 0.00 | -267.64 | 0.00 | 267.64 | 4,423.31 | 2,211.65 | 7,774.90 | 3,893.23 | 0.67 | -0.15 | 0.053 |
| 44.00 | -34.32 | -2.96 | 0.00 | -264.67 | 0.00 | 264.67 | 4,400.67 | 2,200.33 | 7,695.11 | 3,853.28 | 0.71 | -0.16 | 0.053 |
| 45.00 | -33.85 | -2.96 | 0.00 | -261.70 | 0.00 | 261.70 | 4,378.03 | 2,189.01 | 7,615.75 | 3,813.53 | 0.74 | -0.16 | 0.052 |
| 46.00 | -33.38 | -2.95 | 0.00 | -258.74 | 0.00 | 258.74 | 4,355.39 | 2,177.70 | 7,536.79 | 3,773.99 | 0.77 | -0.16 | 0.052 |
| 47.00 | -32.91 | -2.95 | 0.00 | -255.79 | 0.00 | 255.79 | 4,332.75 | 2,166.38 | 7,458.24 | 3,734.66 | 0.81 | -0.17 | 0.052 |
| 48.00 | -32.45 | -2.94 | 0.00 | -252.85 | 0.00 | 252.85 | 4,310.11 | 2,155.06 | 7,380.10 | 3,695.54 | 0.84 | -0.17 | 0.052 |
| 49.00 | -32.43 | -2.94 | 0.00 | -249.91 | 0.00 | 249.91 | 4,287.47 | 2,143.74 | 7,302.38 | 3,656.62 | 0.88 | -0.18 | 0.052 |
| 49.04 | -32.15 | -2.94 | 0.00 | -249.79 | 0.00 | 249.79 | 3,622.99 | 1,811.50 | 6,300.42 | 3,154.89 | 0.88 | -0.18 | 0.058 |
| 50.00 | -31.85 | -2.93 | 0.00 | -246.97 | 0.00 | 246.97 | 3,610.23 | 1,805.12 | 6,246.74 | 3,128.01 | 0.92 | -0.18 | 0.058 |
| 51.00 | -31.56 | -2.93 | 0.00 | -244.04 | 0.00 | 244.04 | 3,596.89 | 1,798.44 | 6,190.96 | 3,100.08 | 0.95 | -0.18 | 0.057 |
| 52.00 | -31.27 | -2.92 | 0.00 | -241.11 | 0.00 | 241.11 | 3,583.49 | 1,791.74 | 6,135.33 | 3,072.23 | 0.99 | -0.19 | 0.057 |
| 53.00 | -30.98 | -2.92 | 0.00 | -238.18 | 0.00 | 238.18 | 3,570.03 | 1,785.02 | 6,079.85 | 3,044.45 | 1.03 | -0.19 | 0.057 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | | | | | | | | |
|--------|--------|-------|------|---------|------|--------|----------|----------|----------|----------|------|-------|-------|
| 54.00 | -30.68 | -2.92 | 0.00 | -235.26 | 0.00 | 235.26 | 3,556.52 | 1,778.26 | 6,024.52 | 3,016.74 | 1.07 | -0.19 | 0.056 |
| 55.00 | -30.39 | -2.91 | 0.00 | -232.35 | 0.00 | 232.35 | 3,542.95 | 1,771.47 | 5,969.33 | 2,989.10 | 1.11 | -0.20 | 0.056 |
| 56.00 | -30.11 | -2.91 | 0.00 | -229.44 | 0.00 | 229.44 | 3,529.32 | 1,764.66 | 5,914.30 | 2,961.55 | 1.16 | -0.20 | 0.056 |
| 57.00 | -29.82 | -2.90 | 0.00 | -226.53 | 0.00 | 226.53 | 3,515.63 | 1,757.82 | 5,859.42 | 2,934.06 | 1.20 | -0.21 | 0.055 |
| 58.00 | -29.53 | -2.90 | 0.00 | -223.63 | 0.00 | 223.63 | 3,501.89 | 1,750.94 | 5,804.69 | 2,906.66 | 1.24 | -0.21 | 0.055 |
| 59.00 | -29.24 | -2.89 | 0.00 | -220.74 | 0.00 | 220.74 | 3,488.09 | 1,744.04 | 5,750.12 | 2,879.33 | 1.29 | -0.22 | 0.055 |
| 60.00 | -28.96 | -2.88 | 0.00 | -217.85 | 0.00 | 217.85 | 3,474.23 | 1,737.12 | 5,695.71 | 2,852.09 | 1.33 | -0.22 | 0.054 |
| 61.00 | -28.67 | -2.88 | 0.00 | -214.96 | 0.00 | 214.96 | 3,460.32 | 1,730.16 | 5,641.45 | 2,824.92 | 1.38 | -0.22 | 0.054 |
| 62.00 | -28.39 | -2.87 | 0.00 | -212.09 | 0.00 | 212.09 | 3,446.35 | 1,723.17 | 5,587.36 | 2,797.83 | 1.43 | -0.23 | 0.054 |
| 63.00 | -28.10 | -2.86 | 0.00 | -209.21 | 0.00 | 209.21 | 3,432.32 | 1,716.16 | 5,533.43 | 2,770.83 | 1.48 | -0.23 | 0.053 |
| 64.00 | -27.82 | -2.86 | 0.00 | -206.35 | 0.00 | 206.35 | 3,418.23 | 1,709.12 | 5,479.66 | 2,743.90 | 1.52 | -0.24 | 0.053 |
| 65.00 | -27.54 | -2.85 | 0.00 | -203.49 | 0.00 | 203.49 | 3,404.09 | 1,702.05 | 5,426.05 | 2,717.06 | 1.57 | -0.24 | 0.053 |
| 66.00 | -27.26 | -2.84 | 0.00 | -200.64 | 0.00 | 200.64 | 3,389.89 | 1,694.95 | 5,372.62 | 2,690.30 | 1.62 | -0.24 | 0.052 |
| 67.00 | -26.97 | -2.83 | 0.00 | -197.80 | 0.00 | 197.80 | 3,375.64 | 1,687.82 | 5,319.35 | 2,663.63 | 1.68 | -0.25 | 0.052 |
| 68.00 | -26.69 | -2.83 | 0.00 | -194.97 | 0.00 | 194.97 | 3,361.32 | 1,680.66 | 5,266.25 | 2,637.04 | 1.73 | -0.25 | 0.051 |
| 69.00 | -26.42 | -2.82 | 0.00 | -192.14 | 0.00 | 192.14 | 3,346.95 | 1,673.48 | 5,213.32 | 2,610.53 | 1.78 | -0.26 | 0.051 |
| 70.00 | -26.14 | -2.81 | 0.00 | -189.32 | 0.00 | 189.32 | 3,332.53 | 1,666.26 | 5,160.56 | 2,584.12 | 1.84 | -0.26 | 0.051 |
| 71.00 | -25.86 | -2.80 | 0.00 | -186.51 | 0.00 | 186.51 | 3,318.04 | 1,659.02 | 5,107.98 | 2,557.79 | 1.89 | -0.26 | 0.050 |
| 72.00 | -25.58 | -2.79 | 0.00 | -183.71 | 0.00 | 183.71 | 3,300.52 | 1,650.26 | 5,051.01 | 2,529.26 | 1.95 | -0.27 | 0.050 |
| 73.00 | -25.31 | -2.78 | 0.00 | -180.92 | 0.00 | 180.92 | 3,281.11 | 1,640.56 | 4,991.50 | 2,499.46 | 2.00 | -0.27 | 0.050 |
| 74.00 | -25.03 | -2.77 | 0.00 | -178.14 | 0.00 | 178.14 | 3,261.71 | 1,630.85 | 4,932.34 | 2,469.84 | 2.06 | -0.28 | 0.049 |
| 75.00 | -24.76 | -2.76 | 0.00 | -175.36 | 0.00 | 175.36 | 3,242.30 | 1,621.15 | 4,873.54 | 2,440.39 | 2.12 | -0.28 | 0.049 |
| 76.00 | -24.48 | -2.75 | 0.00 | -172.60 | 0.00 | 172.60 | 3,222.90 | 1,611.45 | 4,815.08 | 2,411.12 | 2.18 | -0.28 | 0.049 |
| 77.00 | -24.21 | -2.74 | 0.00 | -169.85 | 0.00 | 169.85 | 3,203.49 | 1,601.75 | 4,756.98 | 2,382.03 | 2.24 | -0.29 | 0.048 |
| 78.00 | -23.94 | -2.73 | 0.00 | -167.11 | 0.00 | 167.11 | 3,184.09 | 1,592.04 | 4,699.23 | 2,353.11 | 2.30 | -0.29 | 0.048 |
| 79.00 | -23.66 | -2.72 | 0.00 | -164.38 | 0.00 | 164.38 | 3,164.68 | 1,582.34 | 4,641.84 | 2,324.37 | 2.36 | -0.30 | 0.048 |
| 80.00 | -23.39 | -2.71 | 0.00 | -161.66 | 0.00 | 161.66 | 3,145.28 | 1,572.64 | 4,584.79 | 2,295.80 | 2.42 | -0.30 | 0.047 |
| 81.00 | -23.12 | -2.70 | 0.00 | -158.95 | 0.00 | 158.95 | 3,125.87 | 1,562.94 | 4,528.10 | 2,267.42 | 2.49 | -0.30 | 0.047 |
| 82.00 | -22.86 | -2.69 | 0.00 | -156.25 | 0.00 | 156.25 | 3,106.47 | 1,553.24 | 4,471.77 | 2,239.21 | 2.55 | -0.31 | 0.047 |
| 83.00 | -22.59 | -2.67 | 0.00 | -153.57 | 0.00 | 153.57 | 3,087.07 | 1,543.53 | 4,415.78 | 2,211.17 | 2.62 | -0.31 | 0.046 |
| 84.00 | -22.32 | -2.66 | 0.00 | -150.89 | 0.00 | 150.89 | 3,067.66 | 1,533.83 | 4,360.15 | 2,183.32 | 2.68 | -0.32 | 0.046 |
| 85.00 | -22.05 | -2.65 | 0.00 | -148.23 | 0.00 | 148.23 | 3,048.26 | 1,524.13 | 4,304.87 | 2,155.63 | 2.75 | -0.32 | 0.045 |
| 86.00 | -21.79 | -2.63 | 0.00 | -145.59 | 0.00 | 145.59 | 3,028.85 | 1,514.43 | 4,249.94 | 2,128.13 | 2.82 | -0.32 | 0.045 |
| 87.00 | -21.64 | -2.63 | 0.00 | -142.95 | 0.00 | 142.95 | 3,009.45 | 1,504.72 | 4,195.37 | 2,100.80 | 2.89 | -0.33 | 0.045 |
| 87.54 | -21.47 | -2.62 | 0.00 | -141.53 | 0.00 | 141.53 | 2,998.97 | 1,499.48 | 4,166.05 | 2,086.12 | 2.92 | -0.33 | 0.044 |
| 88.00 | -21.11 | -2.60 | 0.00 | -140.33 | 0.00 | 140.33 | 2,990.04 | 1,495.02 | 4,141.15 | 2,073.65 | 2.96 | -0.33 | 0.044 |
| 89.00 | -20.75 | -2.58 | 0.00 | -137.73 | 0.00 | 137.73 | 2,970.64 | 1,485.32 | 4,087.28 | 2,046.68 | 3.03 | -0.34 | 0.043 |
| 90.00 | -20.39 | -2.56 | 0.00 | -135.15 | 0.00 | 135.15 | 2,951.23 | 1,475.62 | 4,033.76 | 2,019.88 | 3.10 | -0.34 | 0.043 |
| 91.00 | -20.02 | -2.54 | 0.00 | -132.59 | 0.00 | 132.59 | 2,931.83 | 1,465.91 | 3,980.60 | 1,993.26 | 3.17 | -0.34 | 0.042 |
| 92.00 | -19.86 | -2.53 | 0.00 | -130.06 | 0.00 | 130.06 | 2,912.42 | 1,456.21 | 3,927.79 | 1,966.81 | 3.24 | -0.35 | 0.042 |
| 92.46 | -19.73 | -2.52 | 0.00 | -128.90 | 0.00 | 128.90 | 2,424.49 | 1,212.24 | 3,334.85 | 1,669.90 | 3.27 | -0.35 | 0.046 |
| 93.00 | -19.48 | -2.51 | 0.00 | -127.53 | 0.00 | 127.53 | 2,418.22 | 1,209.11 | 3,314.29 | 1,659.61 | 3.31 | -0.35 | 0.046 |
| 94.00 | -19.24 | -2.49 | 0.00 | -125.03 | 0.00 | 125.03 | 2,406.65 | 1,203.32 | 3,276.56 | 1,640.72 | 3.39 | -0.36 | 0.046 |
| 95.00 | -19.00 | -2.48 | 0.00 | -122.54 | 0.00 | 122.54 | 2,395.02 | 1,197.51 | 3,238.97 | 1,621.89 | 3.46 | -0.36 | 0.045 |
| 96.00 | -18.34 | -2.43 | 0.00 | -120.06 | 0.00 | 120.06 | 2,383.33 | 1,191.67 | 3,201.50 | 1,603.13 | 3.54 | -0.36 | 0.044 |
| 97.00 | -18.10 | -2.42 | 0.00 | -117.63 | 0.00 | 117.63 | 2,371.59 | 1,185.79 | 3,164.18 | 1,584.44 | 3.62 | -0.37 | 0.044 |
| 98.00 | -17.86 | -2.40 | 0.00 | -115.21 | 0.00 | 115.21 | 2,359.79 | 1,179.89 | 3,126.99 | 1,565.82 | 3.69 | -0.37 | 0.043 |
| 99.00 | -17.62 | -2.39 | 0.00 | -112.81 | 0.00 | 112.81 | 2,347.93 | 1,173.97 | 3,089.94 | 1,547.27 | 3.77 | -0.38 | 0.043 |
| 100.00 | -17.38 | -2.37 | 0.00 | -110.42 | 0.00 | 110.42 | 2,336.02 | 1,168.01 | 3,053.03 | 1,528.79 | 3.85 | -0.38 | 0.042 |
| 101.00 | -17.14 | -2.35 | 0.00 | -108.05 | 0.00 | 108.05 | 2,324.05 | 1,162.02 | 3,016.27 | 1,510.38 | 3.93 | -0.38 | 0.041 |
| 102.00 | -16.91 | -2.34 | 0.00 | -105.70 | 0.00 | 105.70 | 2,312.02 | 1,156.01 | 2,979.65 | 1,492.04 | 4.01 | -0.39 | 0.041 |
| 103.00 | -16.73 | -2.32 | 0.00 | -103.36 | 0.00 | 103.36 | 2,299.80 | 1,149.90 | 2,943.01 | 1,473.69 | 4.10 | -0.39 | 0.040 |
| 103.75 | -16.68 | -2.32 | 0.00 | -101.62 | 0.00 | 101.62 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 4.16 | -0.40 | 0.040 |
| 103.75 | -16.68 | -2.32 | 0.00 | -101.62 | 0.00 | 101.62 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 4.16 | -0.40 | 0.077 |
| 104.00 | -16.51 | -2.31 | 0.00 | -101.04 | 0.00 | 101.04 | 2,283.63 | 1,141.82 | 2,901.57 | 1,452.94 | 4.18 | -0.40 | 0.077 |
| 105.00 | -16.26 | -2.29 | 0.00 | -98.73 | 0.00 | 98.73 | 2,267.46 | 1,133.73 | 2,860.42 | 1,432.33 | 4.26 | -0.40 | 0.076 |
| 106.00 | -16.09 | -2.28 | 0.00 | -96.44 | 0.00 | 96.44 | 2,251.29 | 1,125.65 | 2,819.56 | 1,411.88 | 4.35 | -0.41 | 0.075 |
| 107.00 | -15.92 | -2.27 | 0.00 | -94.17 | 0.00 | 94.17 | 2,235.12 | 1,117.56 | 2,779.00 | 1,391.56 | 4.43 | -0.42 | 0.075 |
| 108.00 | -15.75 | -2.25 | 0.00 | -91.90 | 0.00 | 91.90 | 2,218.95 | 1,109.48 | 2,738.73 | 1,371.40 | 4.52 | -0.43 | 0.074 |
| 109.00 | -15.58 | -2.24 | 0.00 | -89.65 | 0.00 | 89.65 | 2,202.78 | 1,101.39 | 2,698.75 | 1,351.38 | 4.61 | -0.43 | 0.073 |
| 110.00 | -15.40 | -2.23 | 0.00 | -87.41 | 0.00 | 87.41 | 2,186.61 | 1,093.30 | 2,659.07 | 1,331.51 | 4.70 | -0.44 | 0.073 |
| 111.00 | -15.24 | -2.21 | 0.00 | -85.18 | 0.00 | 85.18 | 2,170.44 | 1,085.22 | 2,619.69 | 1,311.79 | 4.80 | -0.45 | 0.072 |
| 112.00 | -13.65 | -2.07 | 0.00 | -82.97 | 0.00 | 82.97 | 2,154.27 | 1,077.13 | 2,580.59 | 1,292.21 | 4.89 | -0.46 | 0.071 |
| 113.00 | -13.53 | -2.06 | 0.00 | -80.89 | 0.00 | 80.89 | 2,138.10 | 1,069.05 | 2,541.79 | 1,272.79 | 4.99 | -0.46 | 0.070 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | | | | | | | | |
|--------|--------|-------|------|--------|------|-------|----------|----------|----------|----------|-------|-------|-------|
| 114.00 | -13.40 | -2.05 | 0.00 | -78.83 | 0.00 | 78.83 | 2,121.93 | 1,060.96 | 2,503.29 | 1,253.50 | 5.09 | -0.47 | 0.069 |
| 115.00 | -13.28 | -2.04 | 0.00 | -76.78 | 0.00 | 76.78 | 2,105.76 | 1,052.88 | 2,465.08 | 1,234.37 | 5.19 | -0.48 | 0.069 |
| 116.00 | -13.16 | -2.03 | 0.00 | -74.74 | 0.00 | 74.74 | 2,089.59 | 1,044.79 | 2,427.16 | 1,215.38 | 5.29 | -0.49 | 0.068 |
| 117.00 | -13.04 | -2.02 | 0.00 | -72.71 | 0.00 | 72.71 | 2,073.42 | 1,036.71 | 2,389.54 | 1,196.54 | 5.39 | -0.49 | 0.067 |
| 118.00 | -12.91 | -2.01 | 0.00 | -70.69 | 0.00 | 70.69 | 2,057.25 | 1,028.62 | 2,352.21 | 1,177.85 | 5.50 | -0.50 | 0.066 |
| 119.00 | -12.79 | -2.00 | 0.00 | -68.68 | 0.00 | 68.68 | 2,041.07 | 1,020.54 | 2,315.17 | 1,159.31 | 5.60 | -0.51 | 0.066 |
| 120.00 | -12.67 | -1.99 | 0.00 | -66.68 | 0.00 | 66.68 | 2,024.90 | 1,012.45 | 2,278.43 | 1,140.91 | 5.71 | -0.52 | 0.065 |
| 121.00 | -12.55 | -1.98 | 0.00 | -64.69 | 0.00 | 64.69 | 2,008.73 | 1,004.37 | 2,241.98 | 1,122.66 | 5.82 | -0.52 | 0.064 |
| 122.00 | -12.43 | -1.97 | 0.00 | -62.72 | 0.00 | 62.72 | 1,992.56 | 996.28 | 2,205.83 | 1,104.55 | 5.93 | -0.53 | 0.063 |
| 123.00 | -12.32 | -1.95 | 0.00 | -60.75 | 0.00 | 60.75 | 1,976.39 | 988.20 | 2,169.97 | 1,086.60 | 6.04 | -0.54 | 0.062 |
| 124.00 | -12.20 | -1.94 | 0.00 | -58.80 | 0.00 | 58.80 | 1,960.22 | 980.11 | 2,134.40 | 1,068.79 | 6.15 | -0.54 | 0.061 |
| 125.00 | -10.26 | -1.72 | 0.00 | -56.86 | 0.00 | 56.86 | 1,944.05 | 972.03 | 2,099.13 | 1,051.12 | 6.27 | -0.55 | 0.059 |
| 126.00 | -10.14 | -1.71 | 0.00 | -55.13 | 0.00 | 55.13 | 1,927.88 | 963.94 | 2,064.15 | 1,033.61 | 6.38 | -0.56 | 0.059 |
| 127.00 | -10.03 | -1.70 | 0.00 | -53.42 | 0.00 | 53.42 | 1,911.71 | 955.86 | 2,029.46 | 1,016.24 | 6.50 | -0.56 | 0.058 |
| 128.00 | -9.92 | -1.69 | 0.00 | -51.72 | 0.00 | 51.72 | 1,895.54 | 947.77 | 1,995.07 | 999.02 | 6.62 | -0.57 | 0.057 |
| 129.00 | -9.81 | -1.68 | 0.00 | -50.04 | 0.00 | 50.04 | 1,879.37 | 939.68 | 1,960.98 | 981.95 | 6.74 | -0.58 | 0.056 |
| 130.00 | -9.71 | -1.66 | 0.00 | -48.36 | 0.00 | 48.36 | 1,863.20 | 931.60 | 1,927.17 | 965.02 | 6.86 | -0.59 | 0.055 |
| 131.00 | -9.60 | -1.65 | 0.00 | -46.70 | 0.00 | 46.70 | 1,847.03 | 923.51 | 1,893.66 | 948.24 | 6.99 | -0.59 | 0.054 |
| 132.00 | -9.59 | -1.65 | 0.00 | -45.05 | 0.00 | 45.05 | 1,830.86 | 915.43 | 1,860.45 | 931.61 | 7.11 | -0.60 | 0.054 |
| 132.12 | -9.45 | -1.63 | 0.00 | -44.85 | 0.00 | 44.85 | 1,828.92 | 914.46 | 1,856.49 | 929.63 | 7.13 | -0.60 | 0.053 |
| 133.00 | -9.30 | -1.62 | 0.00 | -43.41 | 0.00 | 43.41 | 1,814.69 | 907.34 | 1,827.53 | 915.12 | 7.24 | -0.61 | 0.053 |
| 134.00 | -9.15 | -1.60 | 0.00 | -41.80 | 0.00 | 41.80 | 1,798.52 | 899.26 | 1,794.90 | 898.78 | 7.36 | -0.61 | 0.052 |
| 135.00 | -6.57 | -1.26 | 0.00 | -40.20 | 0.00 | 40.20 | 1,782.35 | 891.17 | 1,762.57 | 882.59 | 7.49 | -0.62 | 0.049 |
| 135.87 | -6.56 | -1.26 | 0.00 | -39.11 | 0.00 | 39.11 | 999.39 | 499.70 | 1,006.16 | 503.83 | 7.61 | -0.62 | 0.084 |
| 136.00 | -6.48 | -1.25 | 0.00 | -38.94 | 0.00 | 38.94 | 998.64 | 499.32 | 1,004.22 | 502.86 | 7.62 | -0.62 | 0.084 |
| 137.00 | -6.41 | -1.24 | 0.00 | -37.70 | 0.00 | 37.70 | 992.83 | 496.42 | 989.37 | 495.42 | 7.76 | -0.63 | 0.083 |
| 138.00 | -6.33 | -1.23 | 0.00 | -36.46 | 0.00 | 36.46 | 986.97 | 493.49 | 974.56 | 488.00 | 7.89 | -0.64 | 0.081 |
| 139.00 | -6.26 | -1.22 | 0.00 | -35.23 | 0.00 | 35.23 | 981.05 | 490.53 | 959.80 | 480.61 | 8.03 | -0.65 | 0.080 |
| 140.00 | -5.62 | -1.13 | 0.00 | -34.01 | 0.00 | 34.01 | 975.08 | 487.54 | 945.09 | 473.25 | 8.16 | -0.66 | 0.078 |
| 141.00 | -5.55 | -1.12 | 0.00 | -32.88 | 0.00 | 32.88 | 969.05 | 484.52 | 930.44 | 465.91 | 8.30 | -0.67 | 0.076 |
| 142.00 | -5.48 | -1.11 | 0.00 | -31.76 | 0.00 | 31.76 | 962.96 | 481.48 | 915.84 | 458.60 | 8.45 | -0.68 | 0.075 |
| 143.00 | -5.42 | -1.10 | 0.00 | -30.65 | 0.00 | 30.65 | 956.81 | 478.41 | 901.30 | 451.32 | 8.59 | -0.69 | 0.074 |
| 144.00 | -5.35 | -1.09 | 0.00 | -29.55 | 0.00 | 29.55 | 950.61 | 475.30 | 886.82 | 444.07 | 8.74 | -0.70 | 0.072 |
| 145.00 | -5.28 | -1.08 | 0.00 | -28.46 | 0.00 | 28.46 | 944.35 | 472.17 | 872.40 | 436.85 | 8.88 | -0.71 | 0.071 |
| 146.00 | -5.22 | -1.07 | 0.00 | -27.38 | 0.00 | 27.38 | 938.03 | 469.01 | 858.03 | 429.66 | 9.03 | -0.72 | 0.069 |
| 147.00 | -5.15 | -1.06 | 0.00 | -26.30 | 0.00 | 26.30 | 931.66 | 465.83 | 843.74 | 422.50 | 9.19 | -0.73 | 0.068 |
| 148.00 | -5.09 | -1.06 | 0.00 | -25.24 | 0.00 | 25.24 | 925.22 | 462.61 | 829.51 | 415.37 | 9.34 | -0.74 | 0.066 |
| 149.00 | -5.02 | -1.05 | 0.00 | -24.18 | 0.00 | 24.18 | 918.73 | 459.37 | 815.34 | 408.28 | 9.49 | -0.75 | 0.065 |
| 150.00 | -4.82 | -1.01 | 0.00 | -23.14 | 0.00 | 23.14 | 912.19 | 456.09 | 801.24 | 401.22 | 9.65 | -0.76 | 0.063 |
| 151.00 | -4.76 | -1.00 | 0.00 | -22.12 | 0.00 | 22.12 | 905.59 | 452.79 | 787.21 | 394.19 | 9.81 | -0.77 | 0.061 |
| 152.00 | -4.69 | -0.99 | 0.00 | -21.12 | 0.00 | 21.12 | 898.93 | 449.46 | 773.25 | 387.20 | 9.97 | -0.77 | 0.060 |
| 153.00 | -4.63 | -0.98 | 0.00 | -20.12 | 0.00 | 20.12 | 892.21 | 446.10 | 759.37 | 380.25 | 10.14 | -0.78 | 0.058 |
| 154.00 | -4.57 | -0.97 | 0.00 | -19.14 | 0.00 | 19.14 | 885.44 | 442.72 | 745.56 | 373.33 | 10.30 | -0.79 | 0.056 |
| 155.00 | -4.51 | -0.96 | 0.00 | -18.17 | 0.00 | 18.17 | 878.60 | 439.30 | 731.82 | 366.45 | 10.47 | -0.80 | 0.055 |
| 156.00 | -4.45 | -0.95 | 0.00 | -17.20 | 0.00 | 17.20 | 871.72 | 435.86 | 718.16 | 359.61 | 10.64 | -0.81 | 0.053 |
| 157.00 | -4.39 | -0.94 | 0.00 | -16.25 | 0.00 | 16.25 | 864.77 | 432.39 | 704.58 | 352.81 | 10.81 | -0.81 | 0.051 |
| 158.00 | -4.32 | -0.93 | 0.00 | -15.30 | 0.00 | 15.30 | 857.77 | 428.88 | 691.08 | 346.05 | 10.98 | -0.82 | 0.049 |
| 159.00 | -4.26 | -0.92 | 0.00 | -14.37 | 0.00 | 14.37 | 850.71 | 425.35 | 677.66 | 339.34 | 11.15 | -0.83 | 0.047 |
| 160.00 | -4.20 | -0.91 | 0.00 | -13.45 | 0.00 | 13.45 | 843.59 | 421.80 | 664.33 | 332.66 | 11.32 | -0.84 | 0.045 |
| 161.00 | -4.15 | -0.90 | 0.00 | -12.53 | 0.00 | 12.53 | 836.42 | 418.21 | 651.08 | 326.02 | 11.50 | -0.84 | 0.043 |
| 162.00 | -4.09 | -0.89 | 0.00 | -11.63 | 0.00 | 11.63 | 829.19 | 414.59 | 637.92 | 319.43 | 11.68 | -0.85 | 0.041 |
| 163.00 | -4.03 | -0.88 | 0.00 | -10.74 | 0.00 | 10.74 | 819.85 | 409.92 | 623.28 | 312.10 | 11.86 | -0.86 | 0.039 |
| 164.00 | -3.97 | -0.87 | 0.00 | -9.86 | 0.00 | 9.86 | 810.15 | 405.07 | 608.54 | 304.72 | 12.04 | -0.86 | 0.037 |
| 165.00 | -3.91 | -0.86 | 0.00 | -8.99 | 0.00 | 8.99 | 800.44 | 400.22 | 593.98 | 297.43 | 12.22 | -0.87 | 0.035 |
| 166.00 | -3.85 | -0.85 | 0.00 | -8.13 | 0.00 | 8.13 | 790.74 | 395.37 | 579.60 | 290.23 | 12.40 | -0.87 | 0.033 |
| 167.00 | -2.71 | -0.62 | 0.00 | -7.28 | 0.00 | 7.28 | 781.04 | 390.52 | 565.39 | 283.11 | 12.59 | -0.88 | 0.029 |
| 168.00 | -2.66 | -0.61 | 0.00 | -6.67 | 0.00 | 6.67 | 771.34 | 385.67 | 551.35 | 276.09 | 12.77 | -0.88 | 0.028 |
| 169.00 | -2.61 | -0.60 | 0.00 | -6.06 | 0.00 | 6.06 | 761.63 | 380.82 | 537.50 | 269.15 | 12.96 | -0.89 | 0.026 |
| 170.00 | -2.57 | -0.59 | 0.00 | -5.46 | 0.00 | 5.46 | 751.93 | 375.97 | 523.82 | 262.30 | 13.14 | -0.89 | 0.024 |
| 171.00 | -2.52 | -0.58 | 0.00 | -4.87 | 0.00 | 4.87 | 742.23 | 371.11 | 510.32 | 255.54 | 13.33 | -0.90 | 0.022 |
| 172.00 | -2.48 | -0.57 | 0.00 | -4.29 | 0.00 | 4.29 | 732.53 | 366.26 | 496.99 | 248.86 | 13.52 | -0.90 | 0.021 |
| 173.00 | -2.43 | -0.56 | 0.00 | -3.72 | 0.00 | 3.72 | 722.82 | 361.41 | 483.84 | 242.28 | 13.71 | -0.90 | 0.019 |
| 174.00 | -2.39 | -0.55 | 0.00 | -3.16 | 0.00 | 3.16 | 713.12 | 356.56 | 470.86 | 235.78 | 13.90 | -0.91 | 0.017 |
| 175.00 | -2.34 | -0.54 | 0.00 | -2.61 | 0.00 | 2.61 | 703.42 | 351.71 | 458.07 | 229.37 | 14.09 | -0.91 | 0.015 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | | | | | | | | |
|--------|-------|-------|------|-------|------|------|--------|--------|--------|--------|-------|-------|-------|
| 176.00 | -2.30 | -0.53 | 0.00 | -2.07 | 0.00 | 2.07 | 693.72 | 346.86 | 445.44 | 223.05 | 14.28 | -0.91 | 0.013 |
| 177.00 | -2.25 | -0.52 | 0.00 | -1.54 | 0.00 | 1.54 | 684.02 | 342.01 | 433.00 | 216.82 | 14.47 | -0.91 | 0.010 |
| 178.00 | -2.21 | -0.51 | 0.00 | -1.01 | 0.00 | 1.01 | 674.31 | 337.16 | 420.73 | 210.68 | 14.66 | -0.91 | 0.008 |
| 179.00 | -2.17 | -0.50 | 0.00 | -0.50 | 0.00 | 0.50 | 664.61 | 332.31 | 408.64 | 204.62 | 14.85 | -0.92 | 0.006 |
| 180.00 | 0.00 | -0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 654.91 | 327.45 | 396.72 | 198.65 | 15.04 | -0.92 | 0.000 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

Equivalent Modal Forces Analysis

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

| | |
|--|------|
| Spectral Response Acceleration for Short Period (S_s): | 0.18 |
| Spectral Response Acceleration at 1.0 Second Period (S_1): | 0.06 |
| Importance Factor (I_E): | 1.50 |
| 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}): | 0.19 |
| Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}): | 0.10 |
| Period Based on Rayleigh Method (sec): | 2.66 |
| Redundancy Factor (ρ): | 1.30 |

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

| Segment | Height Above Base (ft) | Weight (lb) | a | b | c | Saz | Horizontal Force (lb) | Vertical Force (lb) |
|---------|---------------------------------|----------------|-------|-------|-------|-------|-----------------------------|---------------------------|
| 187 | 179.50 | 50 | 1.880 | 1.925 | 1.120 | 0.351 | 23 | 62 |
| 186 | 178.50 | 51 | 1.859 | 1.819 | 1.081 | 0.338 | 22 | 63 |
| 185 | 177.50 | 51 | 1.838 | 1.716 | 1.044 | 0.325 | 22 | 63 |
| 184 | 176.50 | 51 | 1.817 | 1.618 | 1.007 | 0.312 | 21 | 64 |
| 183 | 175.50 | 52 | 1.797 | 1.523 | 0.972 | 0.300 | 20 | 64 |
| 182 | 174.50 | 52 | 1.776 | 1.433 | 0.937 | 0.288 | 20 | 65 |
| 181 | 173.50 | 53 | 1.756 | 1.346 | 0.903 | 0.276 | 19 | 65 |
| 180 | 172.50 | 53 | 1.736 | 1.263 | 0.871 | 0.264 | 18 | 66 |
| 179 | 171.50 | 54 | 1.716 | 1.183 | 0.839 | 0.253 | 18 | 66 |
| 178 | 170.50 | 54 | 1.696 | 1.106 | 0.808 | 0.241 | 17 | 67 |
| 177 | 169.50 | 55 | 1.676 | 1.033 | 0.778 | 0.230 | 16 | 68 |
| 176 | 168.50 | 55 | 1.656 | 0.963 | 0.749 | 0.219 | 16 | 68 |
| 175 | 167.50 | 55 | 1.637 | 0.896 | 0.721 | 0.209 | 15 | 69 |
| 174 | 166.50 | 67 | 1.617 | 0.832 | 0.694 | 0.198 | 17 | 83 |
| 173 | 165.50 | 67 | 1.598 | 0.772 | 0.667 | 0.188 | 16 | 83 |
| 172 | 164.50 | 68 | 1.579 | 0.713 | 0.641 | 0.178 | 16 | 84 |
| 171 | 163.50 | 68 | 1.559 | 0.658 | 0.616 | 0.169 | 15 | 84 |
| 170 | 162.50 | 69 | 1.540 | 0.605 | 0.592 | 0.159 | 14 | 85 |
| 169 | 161.50 | 69 | 1.521 | 0.555 | 0.569 | 0.150 | 13 | 85 |
| 168 | 160.50 | 69 | 1.503 | 0.508 | 0.546 | 0.141 | 13 | 86 |
| 167 | 159.50 | 70 | 1.484 | 0.462 | 0.524 | 0.132 | 12 | 86 |
| 166 | 158.50 | 70 | 1.465 | 0.420 | 0.503 | 0.123 | 11 | 87 |
| 165 | 157.50 | 71 | 1.447 | 0.379 | 0.482 | 0.115 | 11 | 88 |
| 164 | 156.50 | 71 | 1.429 | 0.340 | 0.462 | 0.107 | 10 | 88 |
| 163 | 155.50 | 72 | 1.411 | 0.304 | 0.443 | 0.099 | 9 | 89 |
| 162 | 154.50 | 72 | 1.392 | 0.270 | 0.424 | 0.091 | 9 | 89 |
| 161 | 153.50 | 73 | 1.374 | 0.237 | 0.406 | 0.083 | 8 | 90 |
| 160 | 152.50 | 73 | 1.357 | 0.207 | 0.388 | 0.076 | 7 | 90 |
| 159 | 151.50 | 73 | 1.339 | 0.178 | 0.372 | 0.069 | 7 | 91 |
| 158 | 150.50 | 74 | 1.321 | 0.151 | 0.355 | 0.062 | 6 | 91 |
| 157 | 149.50 | 75 | 1.304 | 0.126 | 0.339 | 0.055 | 5 | 93 |
| 156 | 148.50 | 76 | 1.286 | 0.102 | 0.324 | 0.049 | 5 | 94 |
| 155 | 147.50 | 76 | 1.269 | 0.080 | 0.309 | 0.043 | 4 | 94 |
| 154 | 146.50 | 76 | 1.252 | 0.059 | 0.295 | 0.037 | 4 | 95 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | | | |
|-----|--------|-----|-------|--------|-------|--------|-----|-----|
| 153 | 145.50 | 77 | 1.235 | 0.040 | 0.282 | 0.031 | 3 | 95 |
| 152 | 144.50 | 77 | 1.218 | 0.022 | 0.268 | 0.025 | 3 | 96 |
| 151 | 143.50 | 78 | 1.201 | 0.006 | 0.256 | 0.020 | 2 | 96 |
| 150 | 142.50 | 78 | 1.185 | -0.009 | 0.243 | 0.015 | 1 | 97 |
| 149 | 141.50 | 79 | 1.168 | -0.023 | 0.232 | 0.010 | 1 | 97 |
| 148 | 140.50 | 79 | 1.152 | -0.036 | 0.220 | 0.005 | 0 | 98 |
| 147 | 139.50 | 85 | 1.135 | -0.048 | 0.209 | 0.000 | 0 | 105 |
| 146 | 138.50 | 86 | 1.119 | -0.059 | 0.199 | -0.004 | 0 | 106 |
| 145 | 137.50 | 86 | 1.103 | -0.068 | 0.189 | -0.008 | -1 | 106 |
| 144 | 136.50 | 86 | 1.087 | -0.077 | 0.179 | -0.012 | -1 | 107 |
| 143 | 135.93 | 11 | 1.078 | -0.082 | 0.174 | -0.014 | 0 | 14 |
| 142 | 135.43 | 146 | 1.070 | -0.085 | 0.169 | -0.016 | -3 | 181 |
| 141 | 134.50 | 173 | 1.055 | -0.092 | 0.161 | -0.019 | -4 | 214 |
| 140 | 133.50 | 174 | 1.040 | -0.098 | 0.152 | -0.023 | -5 | 216 |
| 139 | 132.56 | 154 | 1.025 | -0.103 | 0.144 | -0.026 | -5 | 191 |
| 138 | 132.06 | 15 | 1.017 | -0.105 | 0.140 | -0.027 | -1 | 18 |
| 137 | 131.50 | 125 | 1.009 | -0.108 | 0.136 | -0.029 | -5 | 155 |
| 136 | 130.50 | 126 | 0.993 | -0.111 | 0.128 | -0.031 | -5 | 156 |
| 135 | 129.50 | 127 | 0.978 | -0.115 | 0.121 | -0.034 | -6 | 157 |
| 134 | 128.50 | 127 | 0.963 | -0.117 | 0.114 | -0.036 | -6 | 158 |
| 133 | 127.50 | 128 | 0.948 | -0.119 | 0.107 | -0.038 | -6 | 158 |
| 132 | 126.50 | 129 | 0.933 | -0.121 | 0.101 | -0.040 | -7 | 159 |
| 131 | 125.50 | 130 | 0.919 | -0.121 | 0.095 | -0.042 | -7 | 160 |
| 130 | 124.50 | 136 | 0.904 | -0.122 | 0.089 | -0.043 | -8 | 169 |
| 129 | 123.50 | 137 | 0.890 | -0.122 | 0.083 | -0.044 | -8 | 170 |
| 128 | 122.50 | 138 | 0.875 | -0.121 | 0.078 | -0.045 | -8 | 171 |
| 127 | 121.50 | 139 | 0.861 | -0.120 | 0.073 | -0.046 | -8 | 172 |
| 126 | 120.50 | 139 | 0.847 | -0.119 | 0.068 | -0.047 | -8 | 173 |
| 125 | 119.50 | 140 | 0.833 | -0.117 | 0.064 | -0.047 | -9 | 174 |
| 124 | 118.50 | 141 | 0.819 | -0.115 | 0.059 | -0.047 | -9 | 174 |
| 123 | 117.50 | 142 | 0.805 | -0.113 | 0.055 | -0.047 | -9 | 175 |
| 122 | 116.50 | 142 | 0.792 | -0.110 | 0.051 | -0.047 | -9 | 176 |
| 121 | 115.50 | 143 | 0.778 | -0.108 | 0.048 | -0.046 | -9 | 177 |
| 120 | 114.50 | 144 | 0.765 | -0.104 | 0.044 | -0.046 | -9 | 178 |
| 119 | 113.50 | 145 | 0.751 | -0.101 | 0.041 | -0.045 | -8 | 179 |
| 118 | 112.50 | 167 | 0.738 | -0.098 | 0.038 | -0.044 | -10 | 207 |
| 117 | 111.50 | 197 | 0.725 | -0.094 | 0.035 | -0.043 | -11 | 243 |
| 116 | 110.50 | 197 | 0.712 | -0.091 | 0.032 | -0.041 | -11 | 244 |
| 115 | 109.50 | 198 | 0.699 | -0.087 | 0.030 | -0.040 | -10 | 245 |
| 114 | 108.50 | 199 | 0.687 | -0.083 | 0.027 | -0.038 | -10 | 246 |
| 113 | 107.50 | 200 | 0.674 | -0.079 | 0.025 | -0.036 | -9 | 247 |
| 112 | 106.50 | 200 | 0.662 | -0.075 | 0.023 | -0.034 | -9 | 248 |
| 111 | 105.50 | 201 | 0.649 | -0.070 | 0.021 | -0.032 | -8 | 249 |
| 110 | 104.50 | 207 | 0.637 | -0.066 | 0.019 | -0.029 | -8 | 256 |
| 109 | 103.88 | 52 | 0.629 | -0.063 | 0.018 | -0.028 | -2 | 64 |
| 108 | 103.38 | 206 | 0.623 | -0.061 | 0.017 | -0.027 | -7 | 255 |
| 107 | 102.50 | 275 | 0.613 | -0.058 | 0.016 | -0.024 | -9 | 340 |
| 106 | 101.50 | 276 | 0.601 | -0.053 | 0.015 | -0.022 | -8 | 341 |
| 105 | 100.50 | 277 | 0.589 | -0.049 | 0.013 | -0.019 | -7 | 342 |
| 104 | 99.50 | 277 | 0.578 | -0.045 | 0.012 | -0.016 | -6 | 343 |
| 103 | 98.50 | 278 | 0.566 | -0.040 | 0.011 | -0.013 | -5 | 344 |
| 102 | 97.50 | 279 | 0.555 | -0.036 | 0.010 | -0.010 | -4 | 345 |
| 101 | 96.50 | 279 | 0.543 | -0.032 | 0.009 | -0.007 | -3 | 346 |
| 100 | 95.50 | 281 | 0.532 | -0.028 | 0.009 | -0.004 | -2 | 348 |
| 99 | 94.50 | 282 | 0.521 | -0.024 | 0.008 | -0.001 | 0 | 349 |
| 98 | 93.50 | 283 | 0.510 | -0.020 | 0.007 | 0.002 | 1 | 350 |
| 97 | 92.73 | 154 | 0.502 | -0.017 | 0.007 | 0.004 | 1 | 190 |
| 96 | 92.23 | 190 | 0.496 | -0.015 | 0.007 | 0.006 | 1 | 235 |
| 95 | 91.50 | 418 | 0.488 | -0.012 | 0.007 | 0.008 | 4 | 517 |
| 94 | 90.50 | 419 | 0.478 | -0.008 | 0.006 | 0.011 | 6 | 519 |
| 93 | 89.50 | 421 | 0.467 | -0.004 | 0.006 | 0.013 | 7 | 521 |
| 92 | 88.50 | 423 | 0.457 | -0.001 | 0.006 | 0.016 | 9 | 523 |
| 91 | 87.77 | 195 | 0.449 | 0.002 | 0.006 | 0.018 | 5 | 241 |
| 90 | 87.27 | 166 | 0.444 | 0.004 | 0.006 | 0.019 | 4 | 206 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | | | |
|----|-------|-----|-------|-------|-------|-------|----|-----|
| 89 | 86.50 | 308 | 0.436 | 0.006 | 0.006 | 0.021 | 9 | 382 |
| 88 | 85.50 | 309 | 0.426 | 0.010 | 0.006 | 0.024 | 10 | 383 |
| 87 | 84.50 | 310 | 0.417 | 0.013 | 0.006 | 0.026 | 11 | 384 |
| 86 | 83.50 | 311 | 0.407 | 0.016 | 0.006 | 0.028 | 11 | 385 |
| 85 | 82.50 | 312 | 0.397 | 0.019 | 0.007 | 0.031 | 12 | 386 |
| 84 | 81.50 | 313 | 0.387 | 0.022 | 0.007 | 0.033 | 13 | 387 |
| 83 | 80.50 | 314 | 0.378 | 0.025 | 0.007 | 0.035 | 14 | 388 |
| 82 | 79.50 | 315 | 0.369 | 0.028 | 0.008 | 0.036 | 15 | 389 |
| 81 | 78.50 | 316 | 0.359 | 0.030 | 0.008 | 0.038 | 16 | 391 |
| 80 | 77.50 | 317 | 0.350 | 0.033 | 0.009 | 0.040 | 16 | 392 |
| 79 | 76.50 | 317 | 0.341 | 0.035 | 0.009 | 0.041 | 17 | 393 |
| 78 | 75.50 | 318 | 0.333 | 0.037 | 0.010 | 0.043 | 18 | 394 |
| 77 | 74.50 | 319 | 0.324 | 0.040 | 0.010 | 0.044 | 18 | 395 |
| 76 | 73.50 | 320 | 0.315 | 0.042 | 0.011 | 0.045 | 19 | 396 |
| 75 | 72.50 | 321 | 0.307 | 0.044 | 0.012 | 0.046 | 19 | 397 |
| 74 | 71.50 | 322 | 0.298 | 0.046 | 0.012 | 0.047 | 20 | 398 |
| 73 | 70.50 | 323 | 0.290 | 0.048 | 0.013 | 0.048 | 20 | 400 |
| 72 | 69.50 | 324 | 0.282 | 0.049 | 0.014 | 0.049 | 20 | 401 |
| 71 | 68.50 | 325 | 0.274 | 0.051 | 0.015 | 0.049 | 21 | 402 |
| 70 | 67.50 | 325 | 0.266 | 0.052 | 0.015 | 0.050 | 21 | 403 |
| 69 | 66.50 | 326 | 0.258 | 0.054 | 0.016 | 0.050 | 21 | 404 |
| 68 | 65.50 | 327 | 0.250 | 0.055 | 0.017 | 0.051 | 22 | 405 |
| 67 | 64.50 | 328 | 0.243 | 0.057 | 0.018 | 0.051 | 22 | 406 |
| 66 | 63.50 | 329 | 0.235 | 0.058 | 0.019 | 0.052 | 22 | 407 |
| 65 | 62.50 | 330 | 0.228 | 0.059 | 0.020 | 0.052 | 22 | 408 |
| 64 | 61.50 | 331 | 0.221 | 0.060 | 0.021 | 0.052 | 22 | 409 |
| 63 | 60.50 | 332 | 0.214 | 0.061 | 0.021 | 0.052 | 23 | 411 |
| 62 | 59.50 | 333 | 0.207 | 0.062 | 0.022 | 0.052 | 23 | 412 |
| 61 | 58.50 | 333 | 0.200 | 0.063 | 0.023 | 0.052 | 23 | 413 |
| 60 | 57.50 | 334 | 0.193 | 0.064 | 0.024 | 0.052 | 23 | 414 |
| 59 | 56.50 | 335 | 0.186 | 0.064 | 0.025 | 0.052 | 23 | 415 |
| 58 | 55.50 | 336 | 0.180 | 0.065 | 0.026 | 0.052 | 23 | 416 |
| 57 | 54.50 | 337 | 0.173 | 0.066 | 0.027 | 0.052 | 23 | 417 |
| 56 | 53.50 | 338 | 0.167 | 0.066 | 0.028 | 0.052 | 23 | 418 |
| 55 | 52.50 | 339 | 0.161 | 0.067 | 0.029 | 0.052 | 23 | 419 |
| 54 | 51.50 | 340 | 0.155 | 0.068 | 0.029 | 0.052 | 23 | 420 |
| 53 | 50.50 | 341 | 0.149 | 0.068 | 0.030 | 0.052 | 23 | 422 |
| 52 | 49.52 | 328 | 0.143 | 0.068 | 0.031 | 0.052 | 22 | 406 |
| 51 | 49.02 | 21 | 0.140 | 0.069 | 0.032 | 0.052 | 1 | 27 |
| 50 | 48.50 | 539 | 0.137 | 0.069 | 0.032 | 0.052 | 36 | 667 |
| 49 | 47.50 | 541 | 0.132 | 0.069 | 0.033 | 0.051 | 36 | 670 |
| 48 | 46.50 | 543 | 0.126 | 0.070 | 0.034 | 0.051 | 36 | 672 |
| 47 | 45.50 | 545 | 0.121 | 0.070 | 0.034 | 0.051 | 36 | 675 |
| 46 | 44.50 | 547 | 0.116 | 0.070 | 0.035 | 0.051 | 36 | 677 |
| 45 | 43.50 | 549 | 0.110 | 0.070 | 0.036 | 0.051 | 36 | 679 |
| 44 | 42.98 | 24 | 0.108 | 0.071 | 0.036 | 0.051 | 2 | 30 |
| 43 | 42.48 | 357 | 0.105 | 0.071 | 0.036 | 0.050 | 23 | 442 |
| 42 | 41.50 | 374 | 0.100 | 0.071 | 0.037 | 0.050 | 24 | 463 |
| 41 | 40.50 | 375 | 0.096 | 0.071 | 0.038 | 0.050 | 24 | 465 |
| 40 | 39.50 | 377 | 0.091 | 0.071 | 0.038 | 0.050 | 24 | 466 |
| 39 | 38.50 | 378 | 0.086 | 0.071 | 0.039 | 0.050 | 24 | 467 |
| 38 | 37.50 | 379 | 0.082 | 0.072 | 0.039 | 0.049 | 24 | 469 |
| 37 | 36.50 | 380 | 0.078 | 0.072 | 0.040 | 0.049 | 24 | 470 |
| 36 | 35.50 | 381 | 0.074 | 0.072 | 0.040 | 0.049 | 24 | 471 |
| 35 | 34.50 | 382 | 0.069 | 0.072 | 0.041 | 0.049 | 24 | 472 |
| 34 | 33.50 | 383 | 0.065 | 0.072 | 0.041 | 0.049 | 24 | 474 |
| 33 | 32.50 | 384 | 0.062 | 0.072 | 0.041 | 0.048 | 24 | 475 |
| 32 | 31.50 | 385 | 0.058 | 0.072 | 0.041 | 0.048 | 24 | 476 |
| 31 | 30.50 | 386 | 0.054 | 0.071 | 0.042 | 0.048 | 24 | 478 |
| 30 | 29.50 | 387 | 0.051 | 0.071 | 0.042 | 0.048 | 24 | 479 |
| 29 | 28.50 | 388 | 0.047 | 0.071 | 0.042 | 0.047 | 24 | 481 |
| 28 | 27.50 | 389 | 0.044 | 0.071 | 0.042 | 0.047 | 24 | 482 |
| 27 | 26.50 | 390 | 0.041 | 0.070 | 0.042 | 0.047 | 24 | 483 |
| 26 | 25.50 | 391 | 0.038 | 0.070 | 0.041 | 0.046 | 24 | 484 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | | | |
|----------------------|--------|-------|-------|--------|-------|--------|-----|-------|
| 25 | 24.50 | 392 | 0.035 | 0.069 | 0.041 | 0.046 | 24 | 486 |
| 24 | 23.50 | 393 | 0.032 | 0.069 | 0.041 | 0.046 | 23 | 487 |
| 23 | 22.50 | 394 | 0.030 | 0.068 | 0.040 | 0.045 | 23 | 488 |
| 22 | 21.50 | 396 | 0.027 | 0.067 | 0.040 | 0.045 | 23 | 490 |
| 21 | 20.50 | 397 | 0.025 | 0.066 | 0.039 | 0.044 | 23 | 491 |
| 20 | 19.50 | 398 | 0.022 | 0.065 | 0.039 | 0.044 | 23 | 492 |
| 19 | 18.50 | 399 | 0.020 | 0.064 | 0.038 | 0.043 | 22 | 493 |
| 18 | 17.50 | 400 | 0.018 | 0.063 | 0.037 | 0.042 | 22 | 495 |
| 17 | 16.50 | 401 | 0.016 | 0.061 | 0.036 | 0.042 | 22 | 496 |
| 16 | 15.50 | 402 | 0.014 | 0.060 | 0.035 | 0.041 | 21 | 497 |
| 15 | 14.50 | 403 | 0.012 | 0.058 | 0.034 | 0.040 | 21 | 499 |
| 14 | 13.50 | 404 | 0.011 | 0.056 | 0.032 | 0.039 | 20 | 500 |
| 13 | 12.50 | 405 | 0.009 | 0.054 | 0.031 | 0.037 | 20 | 501 |
| 12 | 11.50 | 406 | 0.008 | 0.051 | 0.029 | 0.036 | 19 | 502 |
| 11 | 10.50 | 407 | 0.006 | 0.048 | 0.028 | 0.035 | 18 | 504 |
| 10 | 9.50 | 408 | 0.005 | 0.045 | 0.026 | 0.033 | 17 | 505 |
| 9 | 8.50 | 409 | 0.004 | 0.042 | 0.024 | 0.031 | 16 | 506 |
| 8 | 7.50 | 410 | 0.003 | 0.039 | 0.022 | 0.029 | 15 | 508 |
| 7 | 6.50 | 411 | 0.002 | 0.035 | 0.019 | 0.026 | 14 | 509 |
| 6 | 5.50 | 412 | 0.002 | 0.030 | 0.017 | 0.024 | 13 | 510 |
| 5 | 4.50 | 413 | 0.001 | 0.026 | 0.014 | 0.020 | 11 | 511 |
| 4 | 3.50 | 414 | 0.001 | 0.021 | 0.011 | 0.017 | 9 | 513 |
| 3 | 2.50 | 415 | 0.000 | 0.015 | 0.008 | 0.013 | 7 | 514 |
| 2 | 1.50 | 416 | 0.000 | 0.010 | 0.005 | 0.008 | 4 | 515 |
| 1 | 0.50 | 417 | 0.000 | 0.003 | 0.002 | 0.003 | 2 | 517 |
| Andrew ABT-DMDF- | 180.00 | 1 | 1.890 | 1.980 | 1.140 | 0.358 | 1 | 1 |
| Powerwave Allgon TT1 | 180.00 | 48 | 1.890 | 1.980 | 1.140 | 0.358 | 22 | 59 |
| 4' Omni | 180.00 | 10 | 1.890 | 1.980 | 1.140 | 0.358 | 5 | 12 |
| Powerwave Allgon LGP | 180.00 | 42 | 1.890 | 1.980 | 1.140 | 0.358 | 20 | 52 |
| Raycap DC6-48-60-18- | 180.00 | 40 | 1.890 | 1.980 | 1.140 | 0.358 | 19 | 50 |
| Ericsson RRUS 11 (Ba | 180.00 | 150 | 1.890 | 1.980 | 1.140 | 0.358 | 70 | 186 |
| Ericsson RRUS 32 (50 | 180.00 | 152 | 1.890 | 1.980 | 1.140 | 0.358 | 71 | 189 |
| Ericsson RRUS-12 B2 | 180.00 | 174 | 1.890 | 1.980 | 1.140 | 0.358 | 81 | 215 |
| Powerwave Allgon 777 | 180.00 | 105 | 1.890 | 1.980 | 1.140 | 0.358 | 49 | 130 |
| KMW AM-X-CD-16-65-00 | 180.00 | 146 | 1.890 | 1.980 | 1.140 | 0.358 | 68 | 180 |
| CCI HPA-65R-BUU-H6 | 180.00 | 153 | 1.890 | 1.980 | 1.140 | 0.358 | 71 | 189 |
| Flat Low Profile Pla | 180.00 | 1,500 | 1.890 | 1.980 | 1.140 | 0.358 | 698 | 1,857 |
| Ericsson KRY 112 144 | 167.00 | 33 | 1.627 | 0.864 | 0.707 | 0.204 | 9 | 41 |
| Ericsson AIR 21, 1.3 | 167.00 | 249 | 1.627 | 0.864 | 0.707 | 0.204 | 66 | 308 |
| Ericsson AIR 21, 1.3 | 167.00 | 244 | 1.627 | 0.864 | 0.707 | 0.204 | 65 | 303 |
| Round T-Arm | 167.00 | 750 | 1.627 | 0.864 | 0.707 | 0.204 | 198 | 928 |
| Sinclair SD210-SF2P4 | 150.00 | 8 | 1.312 | 0.138 | 0.347 | 0.059 | 1 | 10 |
| Round Side Arm | 150.00 | 150 | 1.312 | 0.138 | 0.347 | 0.059 | 11 | 186 |
| Telewave ANT150D (5 | 140.00 | 5 | 1.143 | -0.042 | 0.215 | 0.003 | 0 | 6 |
| Bird 432-83H-01-T | 140.00 | 50 | 1.143 | -0.042 | 0.215 | 0.003 | 0 | 62 |
| Sinclair SC432D-HF6L | 140.00 | 34 | 1.143 | -0.042 | 0.215 | 0.003 | 0 | 42 |
| Round Side Arm | 140.00 | 450 | 1.143 | -0.042 | 0.215 | 0.003 | 1 | 557 |
| Decibel DB809DK-XT | 140.00 | 128 | 1.143 | -0.042 | 0.215 | 0.003 | 0 | 158 |
| Alcatel-Lucent 800 M | 135.00 | 185 | 1.063 | -0.088 | 0.165 | -0.018 | -4 | 229 |
| Alcatel-Lucent 1900M | 135.00 | 132 | 1.063 | -0.088 | 0.165 | -0.018 | -3 | 163 |
| Alcatel-Lucent TD-RR | 135.00 | 210 | 1.063 | -0.088 | 0.165 | -0.018 | -5 | 260 |
| RFS APXVTM14-C-120 | 135.00 | 159 | 1.063 | -0.088 | 0.165 | -0.018 | -4 | 196 |
| RFS APXVSPP18-C-A20 | 135.00 | 171 | 1.063 | -0.088 | 0.165 | -0.018 | -4 | 212 |
| Flat Platform w/ Han | 135.00 | 2,000 | 1.063 | -0.088 | 0.165 | -0.018 | -46 | 2,476 |
| RFS FD9R6004/2C-3L (| 125.00 | 19 | 0.911 | -0.122 | 0.092 | -0.042 | -1 | 23 |
| Nokia B5 RRH4x40-850 | 125.00 | 146 | 0.911 | -0.122 | 0.092 | -0.042 | -8 | 180 |
| Alcatel-Lucent RRH2x | 125.00 | 170 | 0.911 | -0.122 | 0.092 | -0.042 | -9 | 211 |
| RFS DB-B1-6C-12AB-0Z | 125.00 | 21 | 0.911 | -0.122 | 0.092 | -0.042 | -1 | 26 |
| Alcatel-Lucent B66a | 125.00 | 201 | 0.911 | -0.122 | 0.092 | -0.042 | -11 | 249 |
| Antel LPA-80080/6CF | 125.00 | 42 | 0.911 | -0.122 | 0.092 | -0.042 | -2 | 52 |
| Antel LPA-80063/6CF | 125.00 | 27 | 0.911 | -0.122 | 0.092 | -0.042 | -1 | 33 |
| Round Low Profile PI | 125.00 | 1,500 | 0.911 | -0.122 | 0.092 | -0.042 | -83 | 1,857 |
| Decibel DB844H90E-XY | 112.00 | 168 | 0.732 | -0.096 | 0.036 | -0.043 | -9 | 208 |
| Round Low Profile PI | 112.00 | 1,500 | 0.732 | -0.096 | 0.036 | -0.043 | -85 | 1,857 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | | | |
|----------------------|--------|--------|---------|--------|--------|--------|-------|--------|
| RFS APXV18-206517S-C | 105.00 | 79 | 0.643 | -0.068 | 0.020 | -0.031 | -3 | 98 |
| Andrew DB586 | 96.00 | 17 | 0.538 | -0.030 | 0.009 | -0.006 | 0 | 21 |
| Bird 429-83H-01-T | 96.00 | 20 | 0.538 | -0.030 | 0.009 | -0.006 | 0 | 25 |
| Flat Side Arm | 96.00 | 450 | 0.538 | -0.030 | 0.009 | -0.006 | -3 | 557 |
| PCTEL GPS-TMG-HR- | 79.00 | 1 | 0.364 | 0.029 | 0.008 | 0.037 | 0 | 1 |
| GPS | 30.00 | 10 | 0.053 | 0.071 | 0.042 | 0.048 | 1 | 12 |
| | | 57,927 | 172.651 | 51.800 | 49.471 | 13.235 | 3,259 | 71,700 |

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) |
|---------|------------------------|-------------|-------|--------|-------|--------|-----------------------|---------------------|
| 187 | 179.50 | 50 | 1.880 | 1.925 | 1.120 | 0.351 | 23 | 43 |
| 186 | 178.50 | 51 | 1.859 | 1.819 | 1.081 | 0.338 | 22 | 44 |
| 185 | 177.50 | 51 | 1.838 | 1.716 | 1.044 | 0.325 | 22 | 44 |
| 184 | 176.50 | 51 | 1.817 | 1.618 | 1.007 | 0.312 | 21 | 44 |
| 183 | 175.50 | 52 | 1.797 | 1.523 | 0.972 | 0.300 | 20 | 45 |
| 182 | 174.50 | 52 | 1.776 | 1.433 | 0.937 | 0.288 | 20 | 45 |
| 181 | 173.50 | 53 | 1.756 | 1.346 | 0.903 | 0.276 | 19 | 46 |
| 180 | 172.50 | 53 | 1.736 | 1.263 | 0.871 | 0.264 | 18 | 46 |
| 179 | 171.50 | 54 | 1.716 | 1.183 | 0.839 | 0.253 | 18 | 46 |
| 178 | 170.50 | 54 | 1.696 | 1.106 | 0.808 | 0.241 | 17 | 47 |
| 177 | 169.50 | 55 | 1.676 | 1.033 | 0.778 | 0.230 | 16 | 47 |
| 176 | 168.50 | 55 | 1.656 | 0.963 | 0.749 | 0.219 | 16 | 47 |
| 175 | 167.50 | 55 | 1.637 | 0.896 | 0.721 | 0.209 | 15 | 48 |
| 174 | 166.50 | 67 | 1.617 | 0.832 | 0.694 | 0.198 | 17 | 58 |
| 173 | 165.50 | 67 | 1.598 | 0.772 | 0.667 | 0.188 | 16 | 58 |
| 172 | 164.50 | 68 | 1.579 | 0.713 | 0.641 | 0.178 | 16 | 58 |
| 171 | 163.50 | 68 | 1.559 | 0.658 | 0.616 | 0.169 | 15 | 59 |
| 170 | 162.50 | 69 | 1.540 | 0.605 | 0.592 | 0.159 | 14 | 59 |
| 169 | 161.50 | 69 | 1.521 | 0.555 | 0.569 | 0.150 | 13 | 59 |
| 168 | 160.50 | 69 | 1.503 | 0.508 | 0.546 | 0.141 | 13 | 60 |
| 167 | 159.50 | 70 | 1.484 | 0.462 | 0.524 | 0.132 | 12 | 60 |
| 166 | 158.50 | 70 | 1.465 | 0.420 | 0.503 | 0.123 | 11 | 61 |
| 165 | 157.50 | 71 | 1.447 | 0.379 | 0.482 | 0.115 | 11 | 61 |
| 164 | 156.50 | 71 | 1.429 | 0.340 | 0.462 | 0.107 | 10 | 61 |
| 163 | 155.50 | 72 | 1.411 | 0.304 | 0.443 | 0.099 | 9 | 62 |
| 162 | 154.50 | 72 | 1.392 | 0.270 | 0.424 | 0.091 | 9 | 62 |
| 161 | 153.50 | 73 | 1.374 | 0.237 | 0.406 | 0.083 | 8 | 63 |
| 160 | 152.50 | 73 | 1.357 | 0.207 | 0.388 | 0.076 | 7 | 63 |
| 159 | 151.50 | 73 | 1.339 | 0.178 | 0.372 | 0.069 | 7 | 63 |
| 158 | 150.50 | 74 | 1.321 | 0.151 | 0.355 | 0.062 | 6 | 64 |
| 157 | 149.50 | 75 | 1.304 | 0.126 | 0.339 | 0.055 | 5 | 65 |
| 156 | 148.50 | 76 | 1.286 | 0.102 | 0.324 | 0.049 | 5 | 65 |
| 155 | 147.50 | 76 | 1.269 | 0.080 | 0.309 | 0.043 | 4 | 66 |
| 154 | 146.50 | 76 | 1.252 | 0.059 | 0.295 | 0.037 | 4 | 66 |
| 153 | 145.50 | 77 | 1.235 | 0.040 | 0.282 | 0.031 | 3 | 66 |
| 152 | 144.50 | 77 | 1.218 | 0.022 | 0.268 | 0.025 | 3 | 67 |
| 151 | 143.50 | 78 | 1.201 | 0.006 | 0.256 | 0.020 | 2 | 67 |
| 150 | 142.50 | 78 | 1.185 | -0.009 | 0.243 | 0.015 | 1 | 67 |
| 149 | 141.50 | 79 | 1.168 | -0.023 | 0.232 | 0.010 | 1 | 68 |
| 148 | 140.50 | 79 | 1.152 | -0.036 | 0.220 | 0.005 | 0 | 68 |
| 147 | 139.50 | 85 | 1.135 | -0.048 | 0.209 | 0.000 | 0 | 73 |
| 146 | 138.50 | 86 | 1.119 | -0.059 | 0.199 | -0.004 | 0 | 74 |
| 145 | 137.50 | 86 | 1.103 | -0.068 | 0.189 | -0.008 | -1 | 74 |
| 144 | 136.50 | 86 | 1.087 | -0.077 | 0.179 | -0.012 | -1 | 75 |
| 143 | 135.93 | 11 | 1.078 | -0.082 | 0.174 | -0.014 | 0 | 10 |
| 142 | 135.43 | 146 | 1.070 | -0.085 | 0.169 | -0.016 | -3 | 126 |
| 141 | 134.50 | 173 | 1.055 | -0.092 | 0.161 | -0.019 | -4 | 149 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | | | |
|-----|--------|-----|-------|--------|-------|--------|-----|-----|
| 140 | 133.50 | 174 | 1.040 | -0.098 | 0.152 | -0.023 | -5 | 150 |
| 139 | 132.56 | 154 | 1.025 | -0.103 | 0.144 | -0.026 | -5 | 133 |
| 138 | 132.06 | 15 | 1.017 | -0.105 | 0.140 | -0.027 | -1 | 13 |
| 137 | 131.50 | 125 | 1.009 | -0.108 | 0.136 | -0.029 | -5 | 108 |
| 136 | 130.50 | 126 | 0.993 | -0.111 | 0.128 | -0.031 | -5 | 108 |
| 135 | 129.50 | 127 | 0.978 | -0.115 | 0.121 | -0.034 | -6 | 109 |
| 134 | 128.50 | 127 | 0.963 | -0.117 | 0.114 | -0.036 | -6 | 110 |
| 133 | 127.50 | 128 | 0.948 | -0.119 | 0.107 | -0.038 | -6 | 110 |
| 132 | 126.50 | 129 | 0.933 | -0.121 | 0.101 | -0.040 | -7 | 111 |
| 131 | 125.50 | 130 | 0.919 | -0.121 | 0.095 | -0.042 | -7 | 112 |
| 130 | 124.50 | 136 | 0.904 | -0.122 | 0.089 | -0.043 | -8 | 118 |
| 129 | 123.50 | 137 | 0.890 | -0.122 | 0.083 | -0.044 | -8 | 118 |
| 128 | 122.50 | 138 | 0.875 | -0.121 | 0.078 | -0.045 | -8 | 119 |
| 127 | 121.50 | 139 | 0.861 | -0.120 | 0.073 | -0.046 | -8 | 120 |
| 126 | 120.50 | 139 | 0.847 | -0.119 | 0.068 | -0.047 | -8 | 120 |
| 125 | 119.50 | 140 | 0.833 | -0.117 | 0.064 | -0.047 | -9 | 121 |
| 124 | 118.50 | 141 | 0.819 | -0.115 | 0.059 | -0.047 | -9 | 122 |
| 123 | 117.50 | 142 | 0.805 | -0.113 | 0.055 | -0.047 | -9 | 122 |
| 122 | 116.50 | 142 | 0.792 | -0.110 | 0.051 | -0.047 | -9 | 123 |
| 121 | 115.50 | 143 | 0.778 | -0.108 | 0.048 | -0.046 | -9 | 123 |
| 120 | 114.50 | 144 | 0.765 | -0.104 | 0.044 | -0.046 | -9 | 124 |
| 119 | 113.50 | 145 | 0.751 | -0.101 | 0.041 | -0.045 | -8 | 125 |
| 118 | 112.50 | 167 | 0.738 | -0.098 | 0.038 | -0.044 | -10 | 144 |
| 117 | 111.50 | 197 | 0.725 | -0.094 | 0.035 | -0.043 | -11 | 170 |
| 116 | 110.50 | 197 | 0.712 | -0.091 | 0.032 | -0.041 | -11 | 170 |
| 115 | 109.50 | 198 | 0.699 | -0.087 | 0.030 | -0.040 | -10 | 171 |
| 114 | 108.50 | 199 | 0.687 | -0.083 | 0.027 | -0.038 | -10 | 171 |
| 113 | 107.50 | 200 | 0.674 | -0.079 | 0.025 | -0.036 | -9 | 172 |
| 112 | 106.50 | 200 | 0.662 | -0.075 | 0.023 | -0.034 | -9 | 173 |
| 111 | 105.50 | 201 | 0.649 | -0.070 | 0.021 | -0.032 | -8 | 173 |
| 110 | 104.50 | 207 | 0.637 | -0.066 | 0.019 | -0.029 | -8 | 178 |
| 109 | 103.88 | 52 | 0.629 | -0.063 | 0.018 | -0.028 | -2 | 45 |
| 108 | 103.38 | 206 | 0.623 | -0.061 | 0.017 | -0.027 | -7 | 177 |
| 107 | 102.50 | 275 | 0.613 | -0.058 | 0.016 | -0.024 | -9 | 237 |
| 106 | 101.50 | 276 | 0.601 | -0.053 | 0.015 | -0.022 | -8 | 238 |
| 105 | 100.50 | 277 | 0.589 | -0.049 | 0.013 | -0.019 | -7 | 238 |
| 104 | 99.50 | 277 | 0.578 | -0.045 | 0.012 | -0.016 | -6 | 239 |
| 103 | 98.50 | 278 | 0.566 | -0.040 | 0.011 | -0.013 | -5 | 240 |
| 102 | 97.50 | 279 | 0.555 | -0.036 | 0.010 | -0.010 | -4 | 240 |
| 101 | 96.50 | 279 | 0.543 | -0.032 | 0.009 | -0.007 | -3 | 241 |
| 100 | 95.50 | 281 | 0.532 | -0.028 | 0.009 | -0.004 | -2 | 242 |
| 99 | 94.50 | 282 | 0.521 | -0.024 | 0.008 | -0.001 | 0 | 243 |
| 98 | 93.50 | 283 | 0.510 | -0.020 | 0.007 | 0.002 | 1 | 244 |
| 97 | 92.73 | 154 | 0.502 | -0.017 | 0.007 | 0.004 | 1 | 133 |
| 96 | 92.23 | 190 | 0.496 | -0.015 | 0.007 | 0.006 | 1 | 164 |
| 95 | 91.50 | 418 | 0.488 | -0.012 | 0.007 | 0.008 | 4 | 360 |
| 94 | 90.50 | 419 | 0.478 | -0.008 | 0.006 | 0.011 | 6 | 362 |
| 93 | 89.50 | 421 | 0.467 | -0.004 | 0.006 | 0.013 | 7 | 363 |
| 92 | 88.50 | 423 | 0.457 | -0.001 | 0.006 | 0.016 | 9 | 364 |
| 91 | 87.77 | 195 | 0.449 | 0.002 | 0.006 | 0.018 | 5 | 168 |
| 90 | 87.27 | 166 | 0.444 | 0.004 | 0.006 | 0.019 | 4 | 143 |
| 89 | 86.50 | 308 | 0.436 | 0.006 | 0.006 | 0.021 | 9 | 266 |
| 88 | 85.50 | 309 | 0.426 | 0.010 | 0.006 | 0.024 | 10 | 267 |
| 87 | 84.50 | 310 | 0.417 | 0.013 | 0.006 | 0.026 | 11 | 267 |
| 86 | 83.50 | 311 | 0.407 | 0.016 | 0.006 | 0.028 | 11 | 268 |
| 85 | 82.50 | 312 | 0.397 | 0.019 | 0.007 | 0.031 | 12 | 269 |
| 84 | 81.50 | 313 | 0.387 | 0.022 | 0.007 | 0.033 | 13 | 270 |
| 83 | 80.50 | 314 | 0.378 | 0.025 | 0.007 | 0.035 | 14 | 271 |
| 82 | 79.50 | 315 | 0.369 | 0.028 | 0.008 | 0.036 | 15 | 271 |
| 81 | 78.50 | 316 | 0.359 | 0.030 | 0.008 | 0.038 | 16 | 272 |
| 80 | 77.50 | 317 | 0.350 | 0.033 | 0.009 | 0.040 | 16 | 273 |
| 79 | 76.50 | 317 | 0.341 | 0.035 | 0.009 | 0.041 | 17 | 274 |
| 78 | 75.50 | 318 | 0.333 | 0.037 | 0.010 | 0.043 | 18 | 275 |
| 77 | 74.50 | 319 | 0.324 | 0.040 | 0.010 | 0.044 | 18 | 275 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | | | |
|----|-------|-----|-------|-------|-------|-------|----|-----|
| 76 | 73.50 | 320 | 0.315 | 0.042 | 0.011 | 0.045 | 19 | 276 |
| 75 | 72.50 | 321 | 0.307 | 0.044 | 0.012 | 0.046 | 19 | 277 |
| 74 | 71.50 | 322 | 0.298 | 0.046 | 0.012 | 0.047 | 20 | 278 |
| 73 | 70.50 | 323 | 0.290 | 0.048 | 0.013 | 0.048 | 20 | 278 |
| 72 | 69.50 | 324 | 0.282 | 0.049 | 0.014 | 0.049 | 20 | 279 |
| 71 | 68.50 | 325 | 0.274 | 0.051 | 0.015 | 0.049 | 21 | 280 |
| 70 | 67.50 | 325 | 0.266 | 0.052 | 0.015 | 0.050 | 21 | 281 |
| 69 | 66.50 | 326 | 0.258 | 0.054 | 0.016 | 0.050 | 21 | 281 |
| 68 | 65.50 | 327 | 0.250 | 0.055 | 0.017 | 0.051 | 22 | 282 |
| 67 | 64.50 | 328 | 0.243 | 0.057 | 0.018 | 0.051 | 22 | 283 |
| 66 | 63.50 | 329 | 0.235 | 0.058 | 0.019 | 0.052 | 22 | 284 |
| 65 | 62.50 | 330 | 0.228 | 0.059 | 0.020 | 0.052 | 22 | 284 |
| 64 | 61.50 | 331 | 0.221 | 0.060 | 0.021 | 0.052 | 22 | 285 |
| 63 | 60.50 | 332 | 0.214 | 0.061 | 0.021 | 0.052 | 23 | 286 |
| 62 | 59.50 | 333 | 0.207 | 0.062 | 0.022 | 0.052 | 23 | 287 |
| 61 | 58.50 | 333 | 0.200 | 0.063 | 0.023 | 0.052 | 23 | 288 |
| 60 | 57.50 | 334 | 0.193 | 0.064 | 0.024 | 0.052 | 23 | 288 |
| 59 | 56.50 | 335 | 0.186 | 0.064 | 0.025 | 0.052 | 23 | 289 |
| 58 | 55.50 | 336 | 0.180 | 0.065 | 0.026 | 0.052 | 23 | 290 |
| 57 | 54.50 | 337 | 0.173 | 0.066 | 0.027 | 0.052 | 23 | 291 |
| 56 | 53.50 | 338 | 0.167 | 0.066 | 0.028 | 0.052 | 23 | 291 |
| 55 | 52.50 | 339 | 0.161 | 0.067 | 0.029 | 0.052 | 23 | 292 |
| 54 | 51.50 | 340 | 0.155 | 0.068 | 0.029 | 0.052 | 23 | 293 |
| 53 | 50.50 | 341 | 0.149 | 0.068 | 0.030 | 0.052 | 23 | 294 |
| 52 | 49.52 | 328 | 0.143 | 0.068 | 0.031 | 0.052 | 22 | 283 |
| 51 | 49.02 | 21 | 0.140 | 0.069 | 0.032 | 0.052 | 1 | 19 |
| 50 | 48.50 | 539 | 0.137 | 0.069 | 0.032 | 0.052 | 36 | 465 |
| 49 | 47.50 | 541 | 0.132 | 0.069 | 0.033 | 0.051 | 36 | 467 |
| 48 | 46.50 | 543 | 0.126 | 0.070 | 0.034 | 0.051 | 36 | 468 |
| 47 | 45.50 | 545 | 0.121 | 0.070 | 0.034 | 0.051 | 36 | 470 |
| 46 | 44.50 | 547 | 0.116 | 0.070 | 0.035 | 0.051 | 36 | 472 |
| 45 | 43.50 | 549 | 0.110 | 0.070 | 0.036 | 0.051 | 36 | 473 |
| 44 | 42.98 | 24 | 0.108 | 0.071 | 0.036 | 0.051 | 2 | 21 |
| 43 | 42.48 | 357 | 0.105 | 0.071 | 0.036 | 0.050 | 23 | 308 |
| 42 | 41.50 | 374 | 0.100 | 0.071 | 0.037 | 0.050 | 24 | 323 |
| 41 | 40.50 | 375 | 0.096 | 0.071 | 0.038 | 0.050 | 24 | 324 |
| 40 | 39.50 | 377 | 0.091 | 0.071 | 0.038 | 0.050 | 24 | 325 |
| 39 | 38.50 | 378 | 0.086 | 0.071 | 0.039 | 0.050 | 24 | 326 |
| 38 | 37.50 | 379 | 0.082 | 0.072 | 0.039 | 0.049 | 24 | 326 |
| 37 | 36.50 | 380 | 0.078 | 0.072 | 0.040 | 0.049 | 24 | 327 |
| 36 | 35.50 | 381 | 0.074 | 0.072 | 0.040 | 0.049 | 24 | 328 |
| 35 | 34.50 | 382 | 0.069 | 0.072 | 0.041 | 0.049 | 24 | 329 |
| 34 | 33.50 | 383 | 0.065 | 0.072 | 0.041 | 0.049 | 24 | 330 |
| 33 | 32.50 | 384 | 0.062 | 0.072 | 0.041 | 0.048 | 24 | 331 |
| 32 | 31.50 | 385 | 0.058 | 0.072 | 0.041 | 0.048 | 24 | 332 |
| 31 | 30.50 | 386 | 0.054 | 0.071 | 0.042 | 0.048 | 24 | 333 |
| 30 | 29.50 | 387 | 0.051 | 0.071 | 0.042 | 0.048 | 24 | 334 |
| 29 | 28.50 | 388 | 0.047 | 0.071 | 0.042 | 0.047 | 24 | 335 |
| 28 | 27.50 | 389 | 0.044 | 0.071 | 0.042 | 0.047 | 24 | 336 |
| 27 | 26.50 | 390 | 0.041 | 0.070 | 0.042 | 0.047 | 24 | 337 |
| 26 | 25.50 | 391 | 0.038 | 0.070 | 0.041 | 0.046 | 24 | 337 |
| 25 | 24.50 | 392 | 0.035 | 0.069 | 0.041 | 0.046 | 24 | 338 |
| 24 | 23.50 | 393 | 0.032 | 0.069 | 0.041 | 0.046 | 23 | 339 |
| 23 | 22.50 | 394 | 0.030 | 0.068 | 0.040 | 0.045 | 23 | 340 |
| 22 | 21.50 | 396 | 0.027 | 0.067 | 0.040 | 0.045 | 23 | 341 |
| 21 | 20.50 | 397 | 0.025 | 0.066 | 0.039 | 0.044 | 23 | 342 |
| 20 | 19.50 | 398 | 0.022 | 0.065 | 0.039 | 0.044 | 23 | 343 |
| 19 | 18.50 | 399 | 0.020 | 0.064 | 0.038 | 0.043 | 22 | 344 |
| 18 | 17.50 | 400 | 0.018 | 0.063 | 0.037 | 0.042 | 22 | 345 |
| 17 | 16.50 | 401 | 0.016 | 0.061 | 0.036 | 0.042 | 22 | 346 |
| 16 | 15.50 | 402 | 0.014 | 0.060 | 0.035 | 0.041 | 21 | 346 |
| 15 | 14.50 | 403 | 0.012 | 0.058 | 0.034 | 0.040 | 21 | 347 |
| 14 | 13.50 | 404 | 0.011 | 0.056 | 0.032 | 0.039 | 20 | 348 |
| 13 | 12.50 | 405 | 0.009 | 0.054 | 0.031 | 0.037 | 20 | 349 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

| | | | | | | | | |
|----------------------|--------|--------|---------|--------|--------|--------|-------|--------|
| 12 | 11.50 | 406 | 0.008 | 0.051 | 0.029 | 0.036 | 19 | 350 |
| 11 | 10.50 | 407 | 0.006 | 0.048 | 0.028 | 0.035 | 18 | 351 |
| 10 | 9.50 | 408 | 0.005 | 0.045 | 0.026 | 0.033 | 17 | 352 |
| 9 | 8.50 | 409 | 0.004 | 0.042 | 0.024 | 0.031 | 16 | 353 |
| 8 | 7.50 | 410 | 0.003 | 0.039 | 0.022 | 0.029 | 15 | 354 |
| 7 | 6.50 | 411 | 0.002 | 0.035 | 0.019 | 0.026 | 14 | 354 |
| 6 | 5.50 | 412 | 0.002 | 0.030 | 0.017 | 0.024 | 13 | 355 |
| 5 | 4.50 | 413 | 0.001 | 0.026 | 0.014 | 0.020 | 11 | 356 |
| 4 | 3.50 | 414 | 0.001 | 0.021 | 0.011 | 0.017 | 9 | 357 |
| 3 | 2.50 | 415 | 0.000 | 0.015 | 0.008 | 0.013 | 7 | 358 |
| 2 | 1.50 | 416 | 0.000 | 0.010 | 0.005 | 0.008 | 4 | 359 |
| 1 | 0.50 | 417 | 0.000 | 0.003 | 0.002 | 0.003 | 2 | 360 |
| Andrew ABT-DMDF- | 180.00 | 1 | 1.890 | 1.980 | 1.140 | 0.358 | 1 | 1 |
| Powerwave Allgon TT1 | 180.00 | 48 | 1.890 | 1.980 | 1.140 | 0.358 | 22 | 41 |
| 4' Omni | 180.00 | 10 | 1.890 | 1.980 | 1.140 | 0.358 | 5 | 9 |
| Powerwave Allgon LGP | 180.00 | 42 | 1.890 | 1.980 | 1.140 | 0.358 | 20 | 36 |
| Raycap DC6-48-60-18- | 180.00 | 40 | 1.890 | 1.980 | 1.140 | 0.358 | 19 | 34 |
| Ericsson RRUS 11 (Ba | 180.00 | 150 | 1.890 | 1.980 | 1.140 | 0.358 | 70 | 129 |
| Ericsson RRUS 32 (50 | 180.00 | 152 | 1.890 | 1.980 | 1.140 | 0.358 | 71 | 131 |
| Ericsson RRUS-12 B2 | 180.00 | 174 | 1.890 | 1.980 | 1.140 | 0.358 | 81 | 150 |
| Powerwave Allgon 777 | 180.00 | 105 | 1.890 | 1.980 | 1.140 | 0.358 | 49 | 91 |
| KMW AM-X-CD-16-65-00 | 180.00 | 146 | 1.890 | 1.980 | 1.140 | 0.358 | 68 | 125 |
| CCI HPA-65R-BUU-H6 | 180.00 | 153 | 1.890 | 1.980 | 1.140 | 0.358 | 71 | 132 |
| Flat Low Profile Pla | 180.00 | 1,500 | 1.890 | 1.980 | 1.140 | 0.358 | 698 | 1,293 |
| Ericsson KRY 112 144 | 167.00 | 33 | 1.627 | 0.864 | 0.707 | 0.204 | 9 | 28 |
| Ericsson AIR 21, 1.3 | 167.00 | 249 | 1.627 | 0.864 | 0.707 | 0.204 | 66 | 215 |
| Ericsson AIR 21, 1.3 | 167.00 | 244 | 1.627 | 0.864 | 0.707 | 0.204 | 65 | 211 |
| Round T-Arm | 167.00 | 750 | 1.627 | 0.864 | 0.707 | 0.204 | 198 | 647 |
| Sinclair SD210-SF2P4 | 150.00 | 8 | 1.312 | 0.138 | 0.347 | 0.059 | 1 | 7 |
| Round Side Arm | 150.00 | 150 | 1.312 | 0.138 | 0.347 | 0.059 | 11 | 129 |
| Telewave ANT150D (5 | 140.00 | 5 | 1.143 | -0.042 | 0.215 | 0.003 | 0 | 4 |
| Bird 432-83H-01-T | 140.00 | 50 | 1.143 | -0.042 | 0.215 | 0.003 | 0 | 43 |
| Sinclair SC432D-HF6L | 140.00 | 34 | 1.143 | -0.042 | 0.215 | 0.003 | 0 | 29 |
| Round Side Arm | 140.00 | 450 | 1.143 | -0.042 | 0.215 | 0.003 | 1 | 388 |
| Decibel DB809DK-XT | 140.00 | 128 | 1.143 | -0.042 | 0.215 | 0.003 | 0 | 110 |
| Alcatel-Lucent 800 M | 135.00 | 185 | 1.063 | -0.088 | 0.165 | -0.018 | -4 | 160 |
| Alcatel-Lucent 1900M | 135.00 | 132 | 1.063 | -0.088 | 0.165 | -0.018 | -3 | 114 |
| Alcatel-Lucent TD-RR | 135.00 | 210 | 1.063 | -0.088 | 0.165 | -0.018 | -5 | 181 |
| RFS APXVTM14-C-I20 | 135.00 | 159 | 1.063 | -0.088 | 0.165 | -0.018 | -4 | 137 |
| RFS APXVSPP18-C-A20 | 135.00 | 171 | 1.063 | -0.088 | 0.165 | -0.018 | -4 | 147 |
| Flat Platform w/ Han | 135.00 | 2,000 | 1.063 | -0.088 | 0.165 | -0.018 | -46 | 1,724 |
| RFS FD9R6004/2C-3L (| 125.00 | 19 | 0.911 | -0.122 | 0.092 | -0.042 | -1 | 16 |
| Nokia B5 RRH4x40-850 | 125.00 | 146 | 0.911 | -0.122 | 0.092 | -0.042 | -8 | 125 |
| Alcatel-Lucent RRH2x | 125.00 | 170 | 0.911 | -0.122 | 0.092 | -0.042 | -9 | 147 |
| RFS DB-B1-6C-12AB-0Z | 125.00 | 21 | 0.911 | -0.122 | 0.092 | -0.042 | -1 | 18 |
| Alcatel-Lucent B66a | 125.00 | 201 | 0.911 | -0.122 | 0.092 | -0.042 | -11 | 173 |
| Antel LPA-80080/6CF | 125.00 | 42 | 0.911 | -0.122 | 0.092 | -0.042 | -2 | 36 |
| Antel LPA-80063/6CF | 125.00 | 27 | 0.911 | -0.122 | 0.092 | -0.042 | -1 | 23 |
| Round Low Profile PI | 125.00 | 1,500 | 0.911 | -0.122 | 0.092 | -0.042 | -83 | 1,293 |
| Decibel DB844H90E-XY | 112.00 | 168 | 0.732 | -0.096 | 0.036 | -0.043 | -9 | 145 |
| Round Low Profile PI | 112.00 | 1,500 | 0.732 | -0.096 | 0.036 | -0.043 | -85 | 1,293 |
| RFS APXV18-206517S-C | 105.00 | 79 | 0.643 | -0.068 | 0.020 | -0.031 | -3 | 68 |
| Andrew DB586 | 96.00 | 17 | 0.538 | -0.030 | 0.009 | -0.006 | 0 | 14 |
| Bird 429-83H-01-T | 96.00 | 20 | 0.538 | -0.030 | 0.009 | -0.006 | 0 | 17 |
| Flat Side Arm | 96.00 | 450 | 0.538 | -0.030 | 0.009 | -0.006 | -3 | 388 |
| PCTEL GPS-TMG-HR- | 79.00 | 1 | 0.364 | 0.029 | 0.008 | 0.037 | 0 | 1 |
| GPS | 30.00 | 10 | 0.053 | 0.071 | 0.042 | 0.048 | 1 | 9 |
| | | 57,927 | 172.651 | 51.800 | 49.471 | 13.235 | 3,259 | 49,947 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:47 PM

Customer: AT&T MOBILITY

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

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -71.18 | -3.26 | 0.00 | -383.39 | 0.00 | 383.39 | 5,129.98 | 2,564.99 | 11,021.5 | 5,518.96 | 0.00 | 0.00 | 0.062 |
| 1.00 | -70.67 | -3.26 | 0.00 | -380.13 | 0.00 | 380.13 | 5,115.23 | 2,557.61 | 10,943.3 | 5,479.82 | 0.00 | 0.00 | 0.062 |
| 2.00 | -70.15 | -3.25 | 0.00 | -376.88 | 0.00 | 376.88 | 5,100.42 | 2,550.21 | 10,865.3 | 5,440.75 | 0.00 | -0.01 | 0.062 |
| 3.00 | -69.64 | -3.25 | 0.00 | -373.62 | 0.00 | 373.62 | 5,085.56 | 2,542.78 | 10,787.4 | 5,401.75 | 0.00 | -0.01 | 0.062 |
| 4.00 | -69.13 | -3.24 | 0.00 | -370.37 | 0.00 | 370.37 | 5,070.64 | 2,535.32 | 10,709.7 | 5,362.83 | 0.01 | -0.01 | 0.061 |
| 5.00 | -68.62 | -3.23 | 0.00 | -367.13 | 0.00 | 367.13 | 5,055.67 | 2,527.83 | 10,632.1 | 5,323.99 | 0.01 | -0.02 | 0.061 |
| 6.00 | -68.11 | -3.22 | 0.00 | -363.90 | 0.00 | 363.90 | 5,040.63 | 2,520.32 | 10,554.7 | 5,285.22 | 0.01 | -0.02 | 0.061 |
| 7.00 | -67.60 | -3.21 | 0.00 | -360.68 | 0.00 | 360.68 | 5,025.54 | 2,512.77 | 10,477.4 | 5,246.53 | 0.02 | -0.02 | 0.061 |
| 8.00 | -67.10 | -3.20 | 0.00 | -357.47 | 0.00 | 357.47 | 5,010.40 | 2,505.20 | 10,400.3 | 5,207.92 | 0.02 | -0.03 | 0.061 |
| 9.00 | -66.59 | -3.18 | 0.00 | -354.27 | 0.00 | 354.27 | 4,995.19 | 2,497.60 | 10,323.4 | 5,169.39 | 0.03 | -0.03 | 0.060 |
| 10.00 | -66.09 | -3.17 | 0.00 | -351.09 | 0.00 | 351.09 | 4,979.93 | 2,489.97 | 10,246.6 | 5,130.93 | 0.03 | -0.03 | 0.060 |
| 11.00 | -65.58 | -3.15 | 0.00 | -347.92 | 0.00 | 347.92 | 4,964.61 | 2,482.31 | 10,170.0 | 5,092.56 | 0.04 | -0.04 | 0.060 |
| 12.00 | -65.08 | -3.14 | 0.00 | -344.77 | 0.00 | 344.77 | 4,949.24 | 2,474.62 | 10,093.5 | 5,054.27 | 0.05 | -0.04 | 0.060 |
| 13.00 | -64.58 | -3.12 | 0.00 | -341.63 | 0.00 | 341.63 | 4,933.81 | 2,466.90 | 10,017.2 | 5,016.06 | 0.06 | -0.04 | 0.060 |
| 14.00 | -64.08 | -3.10 | 0.00 | -338.52 | 0.00 | 338.52 | 4,918.32 | 2,459.16 | 9,941.08 | 4,977.93 | 0.07 | -0.05 | 0.059 |
| 15.00 | -63.59 | -3.08 | 0.00 | -335.41 | 0.00 | 335.41 | 4,902.77 | 2,451.39 | 9,865.10 | 4,939.88 | 0.08 | -0.05 | 0.059 |
| 16.00 | -63.09 | -3.07 | 0.00 | -332.33 | 0.00 | 332.33 | 4,887.17 | 2,443.58 | 9,789.30 | 4,901.92 | 0.09 | -0.05 | 0.059 |
| 17.00 | -62.60 | -3.05 | 0.00 | -329.26 | 0.00 | 329.26 | 4,871.51 | 2,435.75 | 9,713.66 | 4,864.05 | 0.10 | -0.06 | 0.059 |
| 18.00 | -62.10 | -3.03 | 0.00 | -326.22 | 0.00 | 326.22 | 4,855.79 | 2,427.89 | 9,638.20 | 4,826.26 | 0.11 | -0.06 | 0.059 |
| 19.00 | -61.61 | -3.01 | 0.00 | -323.19 | 0.00 | 323.19 | 4,840.02 | 2,420.01 | 9,562.90 | 4,788.56 | 0.12 | -0.06 | 0.058 |
| 20.00 | -61.12 | -2.99 | 0.00 | -320.18 | 0.00 | 320.18 | 4,824.18 | 2,412.09 | 9,487.79 | 4,750.94 | 0.14 | -0.07 | 0.058 |
| 21.00 | -60.63 | -2.97 | 0.00 | -317.19 | 0.00 | 317.19 | 4,808.29 | 2,404.15 | 9,412.84 | 4,713.42 | 0.15 | -0.07 | 0.058 |
| 22.00 | -60.14 | -2.95 | 0.00 | -314.23 | 0.00 | 314.23 | 4,792.35 | 2,396.17 | 9,338.08 | 4,675.98 | 0.17 | -0.07 | 0.058 |
| 23.00 | -59.65 | -2.93 | 0.00 | -311.28 | 0.00 | 311.28 | 4,776.35 | 2,388.17 | 9,263.49 | 4,638.63 | 0.18 | -0.08 | 0.058 |
| 24.00 | -59.17 | -2.91 | 0.00 | -308.35 | 0.00 | 308.35 | 4,760.29 | 2,380.14 | 9,189.09 | 4,601.37 | 0.20 | -0.08 | 0.057 |
| 25.00 | -58.68 | -2.89 | 0.00 | -305.45 | 0.00 | 305.45 | 4,744.17 | 2,372.08 | 9,114.87 | 4,564.21 | 0.21 | -0.08 | 0.057 |
| 26.00 | -58.20 | -2.86 | 0.00 | -302.56 | 0.00 | 302.56 | 4,728.00 | 2,364.00 | 9,040.83 | 4,527.13 | 0.23 | -0.09 | 0.057 |
| 27.00 | -57.72 | -2.84 | 0.00 | -299.69 | 0.00 | 299.69 | 4,711.76 | 2,355.88 | 8,966.98 | 4,490.15 | 0.25 | -0.09 | 0.057 |
| 28.00 | -57.24 | -2.82 | 0.00 | -296.85 | 0.00 | 296.85 | 4,695.48 | 2,347.74 | 8,893.31 | 4,453.26 | 0.27 | -0.09 | 0.057 |
| 29.00 | -56.76 | -2.80 | 0.00 | -294.03 | 0.00 | 294.03 | 4,679.13 | 2,339.57 | 8,819.83 | 4,416.47 | 0.29 | -0.10 | 0.056 |
| 30.00 | -56.27 | -2.78 | 0.00 | -291.23 | 0.00 | 291.23 | 4,662.73 | 2,331.36 | 8,746.54 | 4,379.77 | 0.31 | -0.10 | 0.056 |
| 31.00 | -55.79 | -2.76 | 0.00 | -288.45 | 0.00 | 288.45 | 4,646.27 | 2,323.14 | 8,673.45 | 4,343.17 | 0.33 | -0.10 | 0.056 |
| 32.00 | -55.32 | -2.74 | 0.00 | -285.69 | 0.00 | 285.69 | 4,629.75 | 2,314.88 | 8,600.55 | 4,306.67 | 0.35 | -0.11 | 0.056 |
| 33.00 | -54.84 | -2.71 | 0.00 | -282.96 | 0.00 | 282.96 | 4,613.18 | 2,306.59 | 8,527.84 | 4,270.26 | 0.38 | -0.11 | 0.056 |
| 34.00 | -54.37 | -2.69 | 0.00 | -280.24 | 0.00 | 280.24 | 4,596.55 | 2,298.27 | 8,455.33 | 4,233.95 | 0.40 | -0.11 | 0.055 |
| 35.00 | -53.90 | -2.67 | 0.00 | -277.55 | 0.00 | 277.55 | 4,579.86 | 2,289.93 | 8,383.01 | 4,197.74 | 0.42 | -0.12 | 0.055 |
| 36.00 | -53.43 | -2.65 | 0.00 | -274.88 | 0.00 | 274.88 | 4,563.12 | 2,281.56 | 8,310.90 | 4,161.63 | 0.45 | -0.12 | 0.055 |
| 37.00 | -52.96 | -2.63 | 0.00 | -272.23 | 0.00 | 272.23 | 4,546.32 | 2,273.16 | 8,238.99 | 4,125.62 | 0.47 | -0.12 | 0.055 |
| 38.00 | -52.49 | -2.60 | 0.00 | -269.60 | 0.00 | 269.60 | 4,529.46 | 2,264.73 | 8,167.27 | 4,089.71 | 0.50 | -0.13 | 0.055 |
| 39.00 | -52.03 | -2.58 | 0.00 | -267.00 | 0.00 | 267.00 | 4,512.54 | 2,256.27 | 8,095.77 | 4,053.90 | 0.53 | -0.13 | 0.054 |
| 40.00 | -51.56 | -2.56 | 0.00 | -264.42 | 0.00 | 264.42 | 4,495.62 | 2,247.81 | 8,024.01 | 4,018.31 | 0.56 | -0.13 | 0.054 |
| 41.00 | -51.10 | -2.54 | 0.00 | -261.86 | 0.00 | 261.86 | 4,478.70 | 2,239.35 | 7,952.12 | 3,982.72 | 0.58 | -0.14 | 0.054 |
| 42.00 | -50.66 | -2.52 | 0.00 | -259.32 | 0.00 | 259.32 | 4,461.78 | 2,230.89 | 7,880.23 | 3,947.13 | 0.61 | -0.14 | 0.054 |
| 42.96 | -50.63 | -2.52 | 0.00 | -256.91 | 0.00 | 256.91 | 4,424.29 | 2,212.15 | 7,778.37 | 3,894.97 | 0.64 | -0.15 | 0.054 |
| 43.00 | -49.95 | -2.48 | 0.00 | -256.80 | 0.00 | 256.80 | 4,423.31 | 2,211.65 | 7,774.90 | 3,893.23 | 0.64 | -0.15 | 0.053 |
| 44.00 | -49.27 | -2.45 | 0.00 | -254.32 | 0.00 | 254.32 | 4,406.42 | 2,200.33 | 7,695.11 | 3,853.28 | 0.68 | -0.15 | 0.053 |
| 45.00 | -48.60 | -2.41 | 0.00 | -251.88 | 0.00 | 251.88 | 4,378.03 | 2,189.01 | 7,615.75 | 3,813.53 | 0.71 | -0.15 | 0.053 |
| 46.00 | -47.92 | -2.38 | 0.00 | -249.47 | 0.00 | 249.47 | 4,355.39 | 2,177.70 | 7,536.79 | 3,773.99 | 0.74 | -0.16 | 0.053 |
| 47.00 | -47.25 | -2.34 | 0.00 | -247.09 | 0.00 | 247.09 | 4,332.75 | 2,166.38 | 7,458.24 | 3,734.66 | 0.77 | -0.16 | 0.053 |
| 48.00 | -46.59 | -2.31 | 0.00 | -244.75 | 0.00 | 244.75 | 4,310.11 | 2,155.06 | 7,380.10 | 3,695.54 | 0.81 | -0.16 | 0.053 |
| 49.00 | -46.56 | -2.31 | 0.00 | -242.45 | 0.00 | 242.45 | 4,287.47 | 2,143.74 | 7,302.38 | 3,656.62 | 0.84 | -0.17 | 0.053 |
| 49.04 | -46.15 | -2.28 | 0.00 | -242.36 | 0.00 | 242.36 | 3,622.99 | 1,811.50 | 6,300.42 | 3,154.89 | 0.84 | -0.17 | 0.059 |
| 50.00 | -45.73 | -2.26 | 0.00 | -240.16 | 0.00 | 240.16 | 3,610.23 | 1,805.12 | 6,246.74 | 3,128.01 | 0.88 | -0.17 | 0.059 |
| 51.00 | -45.31 | -2.24 | 0.00 | -237.90 | 0.00 | 237.90 | 3,596.89 | 1,798.44 | 6,190.96 | 3,100.08 | 0.91 | -0.18 | 0.059 |
| 52.00 | -44.89 | -2.22 | 0.00 | -235.66 | 0.00 | 235.66 | 3,583.49 | 1,791.74 | 6,135.33 | 3,072.23 | 0.95 | -0.18 | 0.059 |
| 53.00 | -44.47 | -2.20 | 0.00 | -233.44 | 0.00 | 233.44 | 3,570.03 | 1,785.02 | 6,079.85 | 3,044.45 | 0.99 | -0.18 | 0.058 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:48 PM

Customer: AT&T MOBILITY

| | | | | | | | | | | | | | |
|--------|--------|-------|------|---------|------|--------|----------|----------|----------|----------|------|-------|-------|
| 54.00 | -44.06 | -2.18 | 0.00 | -231.24 | 0.00 | 231.24 | 3,556.52 | 1,778.26 | 6,024.52 | 3,016.74 | 1.03 | -0.19 | 0.058 |
| 55.00 | -43.64 | -2.16 | 0.00 | -229.07 | 0.00 | 229.07 | 3,542.95 | 1,771.47 | 5,969.33 | 2,989.10 | 1.07 | -0.19 | 0.058 |
| 56.00 | -43.22 | -2.14 | 0.00 | -226.91 | 0.00 | 226.91 | 3,529.32 | 1,764.66 | 5,914.30 | 2,961.55 | 1.11 | -0.19 | 0.058 |
| 57.00 | -42.81 | -2.11 | 0.00 | -224.77 | 0.00 | 224.77 | 3,515.63 | 1,757.82 | 5,859.42 | 2,934.06 | 1.15 | -0.20 | 0.058 |
| 58.00 | -42.40 | -2.09 | 0.00 | -222.66 | 0.00 | 222.66 | 3,501.89 | 1,750.94 | 5,804.69 | 2,906.66 | 1.19 | -0.20 | 0.057 |
| 59.00 | -41.99 | -2.07 | 0.00 | -220.57 | 0.00 | 220.57 | 3,488.09 | 1,744.04 | 5,750.12 | 2,879.33 | 1.23 | -0.21 | 0.057 |
| 60.00 | -41.58 | -2.05 | 0.00 | -218.50 | 0.00 | 218.50 | 3,474.23 | 1,737.12 | 5,695.71 | 2,852.09 | 1.28 | -0.21 | 0.057 |
| 61.00 | -41.17 | -2.03 | 0.00 | -216.45 | 0.00 | 216.45 | 3,460.32 | 1,730.16 | 5,641.45 | 2,824.92 | 1.32 | -0.22 | 0.057 |
| 62.00 | -40.76 | -2.01 | 0.00 | -214.42 | 0.00 | 214.42 | 3,446.35 | 1,723.17 | 5,587.36 | 2,797.83 | 1.37 | -0.22 | 0.057 |
| 63.00 | -40.35 | -1.99 | 0.00 | -212.41 | 0.00 | 212.41 | 3,432.32 | 1,716.16 | 5,533.43 | 2,770.83 | 1.41 | -0.22 | 0.057 |
| 64.00 | -39.94 | -1.97 | 0.00 | -210.42 | 0.00 | 210.42 | 3,418.23 | 1,709.12 | 5,479.66 | 2,743.90 | 1.46 | -0.23 | 0.056 |
| 65.00 | -39.54 | -1.95 | 0.00 | -208.45 | 0.00 | 208.45 | 3,404.09 | 1,702.05 | 5,426.05 | 2,717.06 | 1.51 | -0.23 | 0.056 |
| 66.00 | -39.14 | -1.93 | 0.00 | -206.51 | 0.00 | 206.51 | 3,389.89 | 1,694.95 | 5,372.62 | 2,690.30 | 1.56 | -0.24 | 0.056 |
| 67.00 | -38.73 | -1.91 | 0.00 | -204.58 | 0.00 | 204.58 | 3,375.64 | 1,687.82 | 5,319.35 | 2,663.63 | 1.61 | -0.24 | 0.056 |
| 68.00 | -38.33 | -1.89 | 0.00 | -202.67 | 0.00 | 202.67 | 3,361.32 | 1,680.66 | 5,266.25 | 2,637.04 | 1.66 | -0.24 | 0.056 |
| 69.00 | -37.93 | -1.87 | 0.00 | -200.79 | 0.00 | 200.79 | 3,346.95 | 1,673.48 | 5,213.32 | 2,610.53 | 1.71 | -0.25 | 0.056 |
| 70.00 | -37.53 | -1.85 | 0.00 | -198.92 | 0.00 | 198.92 | 3,332.53 | 1,666.26 | 5,160.56 | 2,584.12 | 1.76 | -0.25 | 0.055 |
| 71.00 | -37.13 | -1.83 | 0.00 | -197.07 | 0.00 | 197.07 | 3,318.04 | 1,659.02 | 5,107.98 | 2,557.79 | 1.82 | -0.26 | 0.055 |
| 72.00 | -36.73 | -1.81 | 0.00 | -195.24 | 0.00 | 195.24 | 3,300.52 | 1,650.26 | 5,051.01 | 2,529.26 | 1.87 | -0.26 | 0.055 |
| 73.00 | -36.34 | -1.79 | 0.00 | -193.43 | 0.00 | 193.43 | 3,281.11 | 1,640.56 | 4,991.50 | 2,499.46 | 1.93 | -0.27 | 0.055 |
| 74.00 | -35.94 | -1.78 | 0.00 | -191.63 | 0.00 | 191.63 | 3,261.71 | 1,630.85 | 4,932.34 | 2,469.84 | 1.98 | -0.27 | 0.055 |
| 75.00 | -35.55 | -1.76 | 0.00 | -189.86 | 0.00 | 189.86 | 3,242.30 | 1,621.15 | 4,873.54 | 2,440.39 | 2.04 | -0.27 | 0.055 |
| 76.00 | -35.16 | -1.74 | 0.00 | -188.10 | 0.00 | 188.10 | 3,222.90 | 1,611.45 | 4,815.08 | 2,411.12 | 2.10 | -0.28 | 0.055 |
| 77.00 | -34.76 | -1.73 | 0.00 | -186.35 | 0.00 | 186.35 | 3,203.49 | 1,601.75 | 4,756.98 | 2,382.03 | 2.16 | -0.28 | 0.055 |
| 78.00 | -34.37 | -1.71 | 0.00 | -184.62 | 0.00 | 184.62 | 3,184.09 | 1,592.04 | 4,699.23 | 2,353.11 | 2.22 | -0.29 | 0.055 |
| 79.00 | -33.98 | -1.70 | 0.00 | -182.91 | 0.00 | 182.91 | 3,164.68 | 1,582.34 | 4,641.84 | 2,324.37 | 2.28 | -0.29 | 0.055 |
| 80.00 | -33.59 | -1.69 | 0.00 | -181.21 | 0.00 | 181.21 | 3,145.28 | 1,572.64 | 4,584.79 | 2,295.80 | 2.34 | -0.30 | 0.055 |
| 81.00 | -33.21 | -1.67 | 0.00 | -179.52 | 0.00 | 179.52 | 3,125.87 | 1,562.94 | 4,528.10 | 2,267.42 | 2.40 | -0.30 | 0.054 |
| 82.00 | -32.82 | -1.66 | 0.00 | -177.85 | 0.00 | 177.85 | 3,106.47 | 1,553.24 | 4,471.77 | 2,239.21 | 2.47 | -0.31 | 0.054 |
| 83.00 | -32.44 | -1.65 | 0.00 | -176.19 | 0.00 | 176.19 | 3,087.07 | 1,543.53 | 4,415.78 | 2,211.17 | 2.53 | -0.31 | 0.054 |
| 84.00 | -32.05 | -1.64 | 0.00 | -174.54 | 0.00 | 174.54 | 3,067.66 | 1,533.83 | 4,360.15 | 2,183.32 | 2.60 | -0.32 | 0.054 |
| 85.00 | -31.67 | -1.63 | 0.00 | -172.90 | 0.00 | 172.90 | 3,048.26 | 1,524.13 | 4,304.87 | 2,155.63 | 2.66 | -0.32 | 0.054 |
| 86.00 | -31.29 | -1.62 | 0.00 | -171.27 | 0.00 | 171.27 | 3,028.85 | 1,514.43 | 4,249.94 | 2,128.13 | 2.73 | -0.32 | 0.054 |
| 87.00 | -31.08 | -1.62 | 0.00 | -169.64 | 0.00 | 169.64 | 3,009.45 | 1,504.72 | 4,195.37 | 2,100.80 | 2.80 | -0.33 | 0.054 |
| 87.54 | -30.84 | -1.62 | 0.00 | -168.77 | 0.00 | 168.77 | 2,998.97 | 1,499.48 | 4,166.05 | 2,086.12 | 2.84 | -0.33 | 0.054 |
| 88.00 | -30.32 | -1.61 | 0.00 | -168.03 | 0.00 | 168.03 | 2,990.04 | 1,495.02 | 4,141.15 | 2,073.65 | 2.87 | -0.33 | 0.053 |
| 89.00 | -29.80 | -1.60 | 0.00 | -166.42 | 0.00 | 166.42 | 2,970.64 | 1,485.32 | 4,087.28 | 2,046.68 | 2.94 | -0.34 | 0.053 |
| 90.00 | -29.28 | -1.59 | 0.00 | -164.82 | 0.00 | 164.82 | 2,951.23 | 1,475.62 | 4,033.76 | 2,019.88 | 3.01 | -0.34 | 0.053 |
| 91.00 | -28.76 | -1.59 | 0.00 | -163.23 | 0.00 | 163.23 | 2,931.83 | 1,465.91 | 3,980.60 | 1,993.26 | 3.08 | -0.35 | 0.053 |
| 92.00 | -28.52 | -1.58 | 0.00 | -161.65 | 0.00 | 161.65 | 2,912.42 | 1,456.21 | 3,927.79 | 1,966.81 | 3.16 | -0.35 | 0.053 |
| 92.46 | -28.33 | -1.58 | 0.00 | -160.92 | 0.00 | 160.92 | 2,424.49 | 1,212.24 | 3,334.85 | 1,669.90 | 3.19 | -0.36 | 0.059 |
| 93.00 | -27.98 | -1.58 | 0.00 | -160.06 | 0.00 | 160.06 | 2,418.22 | 1,209.11 | 3,314.29 | 1,659.61 | 3.23 | -0.36 | 0.059 |
| 94.00 | -27.63 | -1.58 | 0.00 | -158.48 | 0.00 | 158.48 | 2,406.65 | 1,203.32 | 3,276.56 | 1,640.72 | 3.31 | -0.36 | 0.059 |
| 95.00 | -27.29 | -1.59 | 0.00 | -156.90 | 0.00 | 156.90 | 2,395.02 | 1,197.51 | 3,238.97 | 1,621.89 | 3.38 | -0.37 | 0.058 |
| 96.00 | -26.34 | -1.59 | 0.00 | -155.31 | 0.00 | 155.31 | 2,383.33 | 1,191.67 | 3,201.50 | 1,603.13 | 3.46 | -0.37 | 0.058 |
| 97.00 | -25.99 | -1.59 | 0.00 | -153.72 | 0.00 | 153.72 | 2,371.59 | 1,185.79 | 3,164.18 | 1,584.44 | 3.54 | -0.38 | 0.058 |
| 98.00 | -25.65 | -1.60 | 0.00 | -152.13 | 0.00 | 152.13 | 2,359.79 | 1,179.89 | 3,126.99 | 1,565.82 | 3.62 | -0.38 | 0.058 |
| 99.00 | -25.30 | -1.60 | 0.00 | -150.53 | 0.00 | 150.53 | 2,347.93 | 1,173.97 | 3,089.94 | 1,547.27 | 3.70 | -0.39 | 0.057 |
| 100.00 | -24.96 | -1.61 | 0.00 | -148.93 | 0.00 | 148.93 | 2,336.02 | 1,168.01 | 3,053.03 | 1,528.79 | 3.78 | -0.39 | 0.057 |
| 101.00 | -24.62 | -1.62 | 0.00 | -147.32 | 0.00 | 147.32 | 2,324.05 | 1,162.02 | 3,016.27 | 1,510.38 | 3.87 | -0.40 | 0.057 |
| 102.00 | -24.28 | -1.63 | 0.00 | -145.70 | 0.00 | 145.70 | 2,312.02 | 1,156.01 | 2,979.65 | 1,492.04 | 3.95 | -0.41 | 0.057 |
| 103.00 | -24.02 | -1.63 | 0.00 | -144.08 | 0.00 | 144.08 | 2,299.80 | 1,149.90 | 2,943.01 | 1,473.69 | 4.04 | -0.41 | 0.056 |
| 103.75 | -23.96 | -1.64 | 0.00 | -142.85 | 0.00 | 142.85 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 4.10 | -0.42 | 0.056 |
| 103.75 | -23.96 | -1.64 | 0.00 | -142.85 | 0.00 | 142.85 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 4.10 | -0.42 | 0.108 |
| 104.00 | -23.70 | -1.64 | 0.00 | -142.44 | 0.00 | 142.44 | 2,283.63 | 1,141.82 | 2,901.57 | 1,452.94 | 4.12 | -0.42 | 0.108 |
| 105.00 | -23.36 | -1.66 | 0.00 | -140.80 | 0.00 | 140.80 | 2,267.46 | 1,133.73 | 2,860.42 | 1,432.33 | 4.21 | -0.43 | 0.109 |
| 106.00 | -23.11 | -1.67 | 0.00 | -139.14 | 0.00 | 139.14 | 2,251.29 | 1,125.65 | 2,819.56 | 1,411.88 | 4.30 | -0.44 | 0.109 |
| 107.00 | -22.86 | -1.68 | 0.00 | -137.47 | 0.00 | 137.47 | 2,235.12 | 1,117.56 | 2,779.00 | 1,391.56 | 4.39 | -0.45 | 0.109 |
| 108.00 | -22.61 | -1.69 | 0.00 | -135.79 | 0.00 | 135.79 | 2,218.95 | 1,109.48 | 2,738.73 | 1,371.40 | 4.49 | -0.46 | 0.109 |
| 109.00 | -22.37 | -1.71 | 0.00 | -134.10 | 0.00 | 134.10 | 2,202.78 | 1,101.39 | 2,698.75 | 1,351.38 | 4.59 | -0.47 | 0.109 |
| 110.00 | -22.12 | -1.72 | 0.00 | -132.39 | 0.00 | 132.39 | 2,186.61 | 1,093.30 | 2,659.07 | 1,331.51 | 4.69 | -0.48 | 0.110 |
| 111.00 | -21.88 | -1.73 | 0.00 | -130.67 | 0.00 | 130.67 | 2,170.44 | 1,085.22 | 2,619.69 | 1,311.79 | 4.79 | -0.49 | 0.110 |
| 112.00 | -19.61 | -1.82 | 0.00 | -128.94 | 0.00 | 128.94 | 2,154.27 | 1,077.13 | 2,580.59 | 1,292.21 | 4.89 | -0.51 | 0.109 |
| 113.00 | -19.43 | -1.83 | 0.00 | -127.12 | 0.00 | 127.12 | 2,138.10 | 1,069.05 | 2,541.79 | 1,272.79 | 5.00 | -0.52 | 0.109 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:48 PM

Customer: AT&T MOBILITY

| | | | | | | | | | | | | | |
|--------|--------|-------|------|---------|------|--------|----------|----------|----------|----------|-------|-------|-------|
| 114.00 | -19.25 | -1.84 | 0.00 | -125.29 | 0.00 | 125.29 | 2,121.93 | 1,060.96 | 2,503.29 | 1,253.50 | 5.11 | -0.53 | 0.109 |
| 115.00 | -19.07 | -1.85 | 0.00 | -123.45 | 0.00 | 123.45 | 2,105.76 | 1,052.88 | 2,465.08 | 1,234.37 | 5.22 | -0.54 | 0.109 |
| 116.00 | -18.90 | -1.86 | 0.00 | -121.59 | 0.00 | 121.59 | 2,089.59 | 1,044.79 | 2,427.16 | 1,215.38 | 5.34 | -0.55 | 0.109 |
| 117.00 | -18.72 | -1.87 | 0.00 | -119.73 | 0.00 | 119.73 | 2,073.42 | 1,036.71 | 2,389.54 | 1,196.54 | 5.45 | -0.57 | 0.109 |
| 118.00 | -18.55 | -1.89 | 0.00 | -117.86 | 0.00 | 117.86 | 2,057.25 | 1,028.62 | 2,352.21 | 1,177.85 | 5.57 | -0.58 | 0.109 |
| 119.00 | -18.37 | -1.90 | 0.00 | -115.97 | 0.00 | 115.97 | 2,041.07 | 1,020.54 | 2,315.17 | 1,159.31 | 5.70 | -0.59 | 0.109 |
| 120.00 | -18.20 | -1.91 | 0.00 | -114.07 | 0.00 | 114.07 | 2,024.90 | 1,012.45 | 2,278.43 | 1,140.91 | 5.82 | -0.60 | 0.109 |
| 121.00 | -18.03 | -1.92 | 0.00 | -112.17 | 0.00 | 112.17 | 2,008.73 | 1,004.37 | 2,241.98 | 1,122.66 | 5.95 | -0.61 | 0.109 |
| 122.00 | -17.85 | -1.93 | 0.00 | -110.25 | 0.00 | 110.25 | 1,992.56 | 996.28 | 2,205.83 | 1,104.55 | 6.08 | -0.63 | 0.109 |
| 123.00 | -17.68 | -1.94 | 0.00 | -108.32 | 0.00 | 108.32 | 1,976.39 | 988.20 | 2,169.97 | 1,086.60 | 6.21 | -0.64 | 0.109 |
| 124.00 | -17.51 | -1.95 | 0.00 | -106.38 | 0.00 | 106.38 | 1,960.22 | 980.11 | 2,134.40 | 1,068.79 | 6.35 | -0.65 | 0.108 |
| 125.00 | -14.72 | -2.04 | 0.00 | -104.44 | 0.00 | 104.44 | 1,944.05 | 972.03 | 2,099.13 | 1,051.12 | 6.48 | -0.66 | 0.107 |
| 126.00 | -14.56 | -2.05 | 0.00 | -102.39 | 0.00 | 102.39 | 1,927.88 | 963.94 | 2,064.15 | 1,033.61 | 6.62 | -0.68 | 0.107 |
| 127.00 | -14.40 | -2.06 | 0.00 | -100.34 | 0.00 | 100.34 | 1,911.71 | 955.86 | 2,029.46 | 1,016.24 | 6.77 | -0.69 | 0.106 |
| 128.00 | -14.24 | -2.07 | 0.00 | -98.29 | 0.00 | 98.29 | 1,895.54 | 947.77 | 1,995.07 | 999.02 | 6.91 | -0.70 | 0.106 |
| 129.00 | -14.09 | -2.07 | 0.00 | -96.22 | 0.00 | 96.22 | 1,879.37 | 939.68 | 1,960.98 | 981.95 | 7.06 | -0.72 | 0.105 |
| 130.00 | -13.93 | -2.08 | 0.00 | -94.15 | 0.00 | 94.15 | 1,863.20 | 931.60 | 1,927.17 | 965.02 | 7.21 | -0.73 | 0.105 |
| 131.00 | -13.78 | -2.09 | 0.00 | -92.07 | 0.00 | 92.07 | 1,847.03 | 923.51 | 1,893.66 | 948.24 | 7.37 | -0.74 | 0.105 |
| 132.00 | -13.76 | -2.09 | 0.00 | -89.98 | 0.00 | 89.98 | 1,830.86 | 915.43 | 1,860.45 | 931.61 | 7.53 | -0.76 | 0.104 |
| 132.12 | -13.57 | -2.09 | 0.00 | -89.73 | 0.00 | 89.73 | 1,828.92 | 914.46 | 1,856.49 | 929.63 | 7.54 | -0.76 | 0.104 |
| 133.00 | -13.35 | -2.10 | 0.00 | -87.89 | 0.00 | 87.89 | 1,814.69 | 907.34 | 1,827.53 | 915.12 | 7.68 | -0.77 | 0.103 |
| 134.00 | -13.14 | -2.10 | 0.00 | -85.80 | 0.00 | 85.80 | 1,798.52 | 899.26 | 1,794.90 | 898.78 | 7.85 | -0.78 | 0.103 |
| 135.00 | -9.42 | -2.12 | 0.00 | -83.69 | 0.00 | 83.69 | 1,782.35 | 891.17 | 1,762.57 | 882.59 | 8.01 | -0.79 | 0.100 |
| 135.87 | -9.40 | -2.12 | 0.00 | -81.85 | 0.00 | 81.85 | 999.39 | 499.70 | 1,006.16 | 503.83 | 8.16 | -0.81 | 0.172 |
| 136.00 | -9.29 | -2.12 | 0.00 | -81.57 | 0.00 | 81.57 | 998.64 | 499.32 | 1,004.22 | 502.86 | 8.18 | -0.81 | 0.172 |
| 137.00 | -9.19 | -2.13 | 0.00 | -79.45 | 0.00 | 79.45 | 992.83 | 496.42 | 989.37 | 495.42 | 8.35 | -0.83 | 0.170 |
| 138.00 | -9.08 | -2.13 | 0.00 | -77.32 | 0.00 | 77.32 | 986.97 | 493.49 | 974.56 | 488.00 | 8.53 | -0.85 | 0.168 |
| 139.00 | -8.97 | -2.13 | 0.00 | -75.19 | 0.00 | 75.19 | 981.05 | 490.53 | 959.80 | 480.61 | 8.71 | -0.87 | 0.166 |
| 140.00 | -8.05 | -2.12 | 0.00 | -73.06 | 0.00 | 73.06 | 975.08 | 487.54 | 945.09 | 473.25 | 8.89 | -0.89 | 0.163 |
| 141.00 | -7.95 | -2.12 | 0.00 | -70.95 | 0.00 | 70.95 | 969.05 | 484.52 | 930.44 | 465.91 | 9.08 | -0.91 | 0.161 |
| 142.00 | -7.85 | -2.12 | 0.00 | -68.83 | 0.00 | 68.83 | 962.96 | 481.48 | 915.84 | 458.60 | 9.27 | -0.93 | 0.158 |
| 143.00 | -7.76 | -2.12 | 0.00 | -66.72 | 0.00 | 66.72 | 956.81 | 478.41 | 901.30 | 451.32 | 9.47 | -0.95 | 0.156 |
| 144.00 | -7.66 | -2.11 | 0.00 | -64.60 | 0.00 | 64.60 | 950.61 | 475.30 | 886.82 | 444.07 | 9.67 | -0.97 | 0.154 |
| 145.00 | -7.57 | -2.11 | 0.00 | -62.48 | 0.00 | 62.48 | 944.35 | 472.17 | 872.40 | 436.85 | 9.88 | -0.99 | 0.151 |
| 146.00 | -7.47 | -2.11 | 0.00 | -60.37 | 0.00 | 60.37 | 938.03 | 469.01 | 858.03 | 429.66 | 10.09 | -1.01 | 0.148 |
| 147.00 | -7.38 | -2.11 | 0.00 | -58.26 | 0.00 | 58.26 | 931.66 | 465.83 | 843.74 | 422.50 | 10.31 | -1.04 | 0.146 |
| 148.00 | -7.28 | -2.10 | 0.00 | -56.16 | 0.00 | 56.16 | 925.22 | 462.61 | 829.51 | 415.37 | 10.52 | -1.06 | 0.143 |
| 149.00 | -7.19 | -2.10 | 0.00 | -54.05 | 0.00 | 54.05 | 918.73 | 459.37 | 815.34 | 408.28 | 10.75 | -1.08 | 0.140 |
| 150.00 | -6.90 | -2.08 | 0.00 | -51.96 | 0.00 | 51.96 | 912.19 | 456.09 | 801.24 | 401.22 | 10.98 | -1.10 | 0.137 |
| 151.00 | -6.81 | -2.07 | 0.00 | -49.88 | 0.00 | 49.88 | 905.59 | 452.79 | 787.21 | 394.19 | 11.21 | -1.11 | 0.134 |
| 152.00 | -6.72 | -2.06 | 0.00 | -47.81 | 0.00 | 47.81 | 898.93 | 449.46 | 773.25 | 387.20 | 11.44 | -1.13 | 0.131 |
| 153.00 | -6.63 | -2.06 | 0.00 | -45.74 | 0.00 | 45.74 | 892.21 | 446.10 | 759.37 | 380.25 | 11.68 | -1.15 | 0.128 |
| 154.00 | -6.54 | -2.05 | 0.00 | -43.69 | 0.00 | 43.69 | 885.44 | 442.72 | 745.56 | 373.33 | 11.93 | -1.17 | 0.124 |
| 155.00 | -6.45 | -2.04 | 0.00 | -41.64 | 0.00 | 41.64 | 878.60 | 439.30 | 731.82 | 366.45 | 12.17 | -1.19 | 0.121 |
| 156.00 | -6.36 | -2.03 | 0.00 | -39.60 | 0.00 | 39.60 | 871.72 | 435.86 | 718.16 | 359.61 | 12.43 | -1.21 | 0.117 |
| 157.00 | -6.27 | -2.02 | 0.00 | -37.57 | 0.00 | 37.57 | 864.77 | 432.39 | 704.58 | 352.81 | 12.68 | -1.23 | 0.114 |
| 158.00 | -6.18 | -2.01 | 0.00 | -35.55 | 0.00 | 35.55 | 857.77 | 428.88 | 691.08 | 346.05 | 12.94 | -1.25 | 0.110 |
| 159.00 | -6.10 | -2.00 | 0.00 | -33.54 | 0.00 | 33.54 | 850.71 | 425.35 | 677.66 | 339.34 | 13.20 | -1.26 | 0.106 |
| 160.00 | -6.01 | -1.98 | 0.00 | -31.54 | 0.00 | 31.54 | 843.59 | 421.80 | 664.33 | 332.66 | 13.47 | -1.28 | 0.102 |
| 161.00 | -5.93 | -1.97 | 0.00 | -29.56 | 0.00 | 29.56 | 836.42 | 418.21 | 651.08 | 326.02 | 13.74 | -1.30 | 0.098 |
| 162.00 | -5.84 | -1.96 | 0.00 | -27.59 | 0.00 | 27.59 | 829.19 | 414.59 | 637.92 | 319.43 | 14.01 | -1.31 | 0.093 |
| 163.00 | -5.76 | -1.94 | 0.00 | -25.64 | 0.00 | 25.64 | 819.85 | 409.92 | 623.28 | 312.10 | 14.29 | -1.33 | 0.089 |
| 164.00 | -5.67 | -1.92 | 0.00 | -23.70 | 0.00 | 23.70 | 810.15 | 405.07 | 608.54 | 304.72 | 14.57 | -1.34 | 0.085 |
| 165.00 | -5.59 | -1.91 | 0.00 | -21.77 | 0.00 | 21.77 | 800.44 | 400.22 | 593.98 | 297.43 | 14.85 | -1.36 | 0.080 |
| 166.00 | -5.51 | -1.89 | 0.00 | -19.86 | 0.00 | 19.86 | 790.74 | 395.37 | 579.60 | 290.23 | 15.14 | -1.37 | 0.075 |
| 167.00 | -3.87 | -1.50 | 0.00 | -17.98 | 0.00 | 17.98 | 781.04 | 390.52 | 565.39 | 283.11 | 15.42 | -1.38 | 0.068 |
| 168.00 | -3.80 | -1.48 | 0.00 | -16.48 | 0.00 | 16.48 | 771.34 | 385.67 | 551.35 | 276.09 | 15.71 | -1.39 | 0.065 |
| 169.00 | -3.73 | -1.46 | 0.00 | -15.00 | 0.00 | 15.00 | 761.63 | 380.82 | 537.50 | 269.15 | 16.01 | -1.40 | 0.061 |
| 170.00 | -3.66 | -1.45 | 0.00 | -13.53 | 0.00 | 13.53 | 751.93 | 375.97 | 523.82 | 262.30 | 16.30 | -1.41 | 0.056 |
| 171.00 | -3.60 | -1.43 | 0.00 | -12.09 | 0.00 | 12.09 | 742.23 | 371.11 | 510.32 | 255.54 | 16.60 | -1.42 | 0.052 |
| 172.00 | -3.53 | -1.41 | 0.00 | -10.66 | 0.00 | 10.66 | 732.53 | 366.26 | 496.99 | 248.86 | 16.90 | -1.43 | 0.048 |
| 173.00 | -3.47 | -1.39 | 0.00 | -9.25 | 0.00 | 9.25 | 722.82 | 361.41 | 483.84 | 242.28 | 17.20 | -1.44 | 0.043 |
| 174.00 | -3.40 | -1.37 | 0.00 | -7.87 | 0.00 | 7.87 | 713.12 | 356.56 | 470.86 | 235.78 | 17.50 | -1.45 | 0.038 |
| 175.00 | -3.34 | -1.35 | 0.00 | -6.50 | 0.00 | 6.50 | 703.42 | 351.71 | 458.07 | 229.37 | 17.81 | -1.46 | 0.033 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:48 PM

Customer: AT&T MOBILITY

| | | | | | | | | | | | | | |
|--------|-------|-------|------|-------|------|------|--------|--------|--------|--------|-------|-------|-------|
| 176.00 | -3.28 | -1.32 | 0.00 | -5.15 | 0.00 | 5.15 | 693.72 | 346.86 | 445.44 | 223.05 | 18.11 | -1.46 | 0.028 |
| 177.00 | -3.21 | -1.30 | 0.00 | -3.83 | 0.00 | 3.83 | 684.02 | 342.01 | 433.00 | 216.82 | 18.42 | -1.47 | 0.022 |
| 178.00 | -3.15 | -1.28 | 0.00 | -2.53 | 0.00 | 2.53 | 674.31 | 337.16 | 420.73 | 210.68 | 18.73 | -1.47 | 0.017 |
| 179.00 | -3.09 | -1.25 | 0.00 | -1.25 | 0.00 | 1.25 | 664.61 | 332.31 | 408.64 | 204.62 | 19.04 | -1.47 | 0.011 |
| 180.00 | 0.00 | -1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 654.91 | 327.45 | 396.72 | 198.65 | 19.34 | -1.47 | 0.000 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:48 PM

Customer: AT&T MOBILITY

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

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 | -49.59 | -3.25 | 0.00 | -375.32 | 0.00 | 375.32 | 5,129.98 | 2,564.99 | 11,021.5 | 5,518.96 | 0.00 | 0.00 | 0.058 |
| 1.00 | -49.23 | -3.25 | 0.00 | -372.07 | 0.00 | 372.07 | 5,115.23 | 2,557.61 | 10,943.3 | 5,479.82 | 0.00 | 0.00 | 0.058 |
| 2.00 | -48.87 | -3.25 | 0.00 | -368.82 | 0.00 | 368.82 | 5,100.42 | 2,550.21 | 10,865.3 | 5,440.75 | 0.00 | -0.01 | 0.058 |
| 3.00 | -48.51 | -3.24 | 0.00 | -365.57 | 0.00 | 365.57 | 5,085.56 | 2,542.78 | 10,787.4 | 5,401.75 | 0.00 | -0.01 | 0.057 |
| 4.00 | -48.16 | -3.23 | 0.00 | -362.33 | 0.00 | 362.33 | 5,070.64 | 2,535.32 | 10,709.7 | 5,362.83 | 0.01 | -0.01 | 0.057 |
| 5.00 | -47.80 | -3.22 | 0.00 | -359.09 | 0.00 | 359.09 | 5,055.67 | 2,527.83 | 10,632.1 | 5,323.99 | 0.01 | -0.02 | 0.057 |
| 6.00 | -47.45 | -3.21 | 0.00 | -355.87 | 0.00 | 355.87 | 5,040.63 | 2,520.32 | 10,554.7 | 5,285.22 | 0.01 | -0.02 | 0.057 |
| 7.00 | -47.09 | -3.20 | 0.00 | -352.66 | 0.00 | 352.66 | 5,025.54 | 2,512.77 | 10,477.4 | 5,246.53 | 0.02 | -0.02 | 0.057 |
| 8.00 | -46.74 | -3.18 | 0.00 | -349.46 | 0.00 | 349.46 | 5,010.40 | 2,505.20 | 10,400.3 | 5,207.92 | 0.02 | -0.03 | 0.056 |
| 9.00 | -46.39 | -3.17 | 0.00 | -346.28 | 0.00 | 346.28 | 4,995.19 | 2,497.60 | 10,323.4 | 5,169.39 | 0.03 | -0.03 | 0.056 |
| 10.00 | -46.04 | -3.15 | 0.00 | -343.11 | 0.00 | 343.11 | 4,979.93 | 2,489.97 | 10,246.6 | 5,130.93 | 0.03 | -0.03 | 0.056 |
| 11.00 | -45.69 | -3.14 | 0.00 | -339.96 | 0.00 | 339.96 | 4,964.61 | 2,482.31 | 10,170.0 | 5,092.56 | 0.04 | -0.03 | 0.056 |
| 12.00 | -45.34 | -3.12 | 0.00 | -336.82 | 0.00 | 336.82 | 4,949.24 | 2,474.62 | 10,093.5 | 5,054.27 | 0.05 | -0.04 | 0.056 |
| 13.00 | -44.99 | -3.10 | 0.00 | -333.70 | 0.00 | 333.70 | 4,933.81 | 2,466.90 | 10,017.2 | 5,016.06 | 0.06 | -0.04 | 0.055 |
| 14.00 | -44.64 | -3.08 | 0.00 | -330.60 | 0.00 | 330.60 | 4,918.32 | 2,459.16 | 9,941.08 | 4,977.93 | 0.07 | -0.04 | 0.055 |
| 15.00 | -44.29 | -3.06 | 0.00 | -327.52 | 0.00 | 327.52 | 4,902.77 | 2,451.39 | 9,865.10 | 4,939.88 | 0.08 | -0.05 | 0.055 |
| 16.00 | -43.95 | -3.04 | 0.00 | -324.45 | 0.00 | 324.45 | 4,887.17 | 2,443.58 | 9,789.30 | 4,901.92 | 0.09 | -0.05 | 0.055 |
| 17.00 | -43.60 | -3.02 | 0.00 | -321.41 | 0.00 | 321.41 | 4,871.51 | 2,435.75 | 9,713.66 | 4,864.05 | 0.10 | -0.05 | 0.055 |
| 18.00 | -43.26 | -3.00 | 0.00 | -318.38 | 0.00 | 318.38 | 4,855.79 | 2,427.89 | 9,638.20 | 4,826.26 | 0.11 | -0.06 | 0.054 |
| 19.00 | -42.92 | -2.98 | 0.00 | -315.38 | 0.00 | 315.38 | 4,840.02 | 2,420.01 | 9,562.90 | 4,788.56 | 0.12 | -0.06 | 0.054 |
| 20.00 | -42.58 | -2.96 | 0.00 | -312.40 | 0.00 | 312.40 | 4,824.18 | 2,412.09 | 9,487.79 | 4,750.94 | 0.13 | -0.06 | 0.054 |
| 21.00 | -42.23 | -2.94 | 0.00 | -309.43 | 0.00 | 309.43 | 4,808.29 | 2,404.15 | 9,412.84 | 4,713.42 | 0.15 | -0.07 | 0.054 |
| 22.00 | -41.89 | -2.92 | 0.00 | -306.49 | 0.00 | 306.49 | 4,792.35 | 2,396.17 | 9,338.08 | 4,675.98 | 0.16 | -0.07 | 0.054 |
| 23.00 | -41.55 | -2.90 | 0.00 | -303.57 | 0.00 | 303.57 | 4,776.35 | 2,388.17 | 9,263.49 | 4,638.63 | 0.18 | -0.07 | 0.053 |
| 24.00 | -41.22 | -2.88 | 0.00 | -300.67 | 0.00 | 300.67 | 4,760.29 | 2,380.14 | 9,189.09 | 4,601.37 | 0.19 | -0.08 | 0.053 |
| 25.00 | -40.88 | -2.86 | 0.00 | -297.80 | 0.00 | 297.80 | 4,744.17 | 2,372.08 | 9,114.87 | 4,564.21 | 0.21 | -0.08 | 0.053 |
| 26.00 | -40.54 | -2.83 | 0.00 | -294.94 | 0.00 | 294.94 | 4,728.00 | 2,364.00 | 9,040.83 | 4,527.13 | 0.23 | -0.08 | 0.053 |
| 27.00 | -40.21 | -2.81 | 0.00 | -292.11 | 0.00 | 292.11 | 4,711.76 | 2,355.88 | 8,966.98 | 4,490.15 | 0.25 | -0.09 | 0.053 |
| 28.00 | -39.87 | -2.79 | 0.00 | -289.29 | 0.00 | 289.29 | 4,695.48 | 2,347.74 | 8,893.31 | 4,453.26 | 0.26 | -0.09 | 0.053 |
| 29.00 | -39.54 | -2.77 | 0.00 | -286.50 | 0.00 | 286.50 | 4,679.13 | 2,339.57 | 8,819.83 | 4,416.47 | 0.28 | -0.09 | 0.052 |
| 30.00 | -39.20 | -2.74 | 0.00 | -283.74 | 0.00 | 283.74 | 4,662.73 | 2,331.36 | 8,746.54 | 4,379.77 | 0.30 | -0.10 | 0.052 |
| 31.00 | -38.86 | -2.72 | 0.00 | -280.99 | 0.00 | 280.99 | 4,646.27 | 2,323.14 | 8,673.45 | 4,343.17 | 0.32 | -0.10 | 0.052 |
| 32.00 | -38.53 | -2.70 | 0.00 | -278.27 | 0.00 | 278.27 | 4,629.75 | 2,314.88 | 8,600.55 | 4,306.67 | 0.35 | -0.10 | 0.052 |
| 33.00 | -38.20 | -2.68 | 0.00 | -275.57 | 0.00 | 275.57 | 4,613.18 | 2,306.59 | 8,527.84 | 4,270.26 | 0.37 | -0.11 | 0.052 |
| 34.00 | -37.87 | -2.65 | 0.00 | -272.89 | 0.00 | 272.89 | 4,596.55 | 2,298.27 | 8,455.33 | 4,233.95 | 0.39 | -0.11 | 0.051 |
| 35.00 | -37.55 | -2.63 | 0.00 | -270.24 | 0.00 | 270.24 | 4,579.86 | 2,289.93 | 8,383.01 | 4,197.74 | 0.41 | -0.11 | 0.051 |
| 36.00 | -37.22 | -2.61 | 0.00 | -267.60 | 0.00 | 267.60 | 4,563.12 | 2,281.56 | 8,310.90 | 4,161.63 | 0.44 | -0.12 | 0.051 |
| 37.00 | -36.89 | -2.59 | 0.00 | -265.00 | 0.00 | 265.00 | 4,546.32 | 2,273.16 | 8,238.99 | 4,125.62 | 0.46 | -0.12 | 0.051 |
| 38.00 | -36.57 | -2.56 | 0.00 | -262.41 | 0.00 | 262.41 | 4,529.46 | 2,264.73 | 8,167.27 | 4,089.71 | 0.49 | -0.12 | 0.051 |
| 39.00 | -36.24 | -2.54 | 0.00 | -259.84 | 0.00 | 259.84 | 4,512.54 | 2,256.27 | 8,095.77 | 4,053.90 | 0.52 | -0.13 | 0.051 |
| 40.00 | -35.92 | -2.52 | 0.00 | -257.30 | 0.00 | 257.30 | 4,495.56 | 2,247.79 | 8,024.01 | 4,018.31 | 0.54 | -0.13 | 0.050 |
| 41.00 | -35.59 | -2.50 | 0.00 | -254.79 | 0.00 | 254.79 | 4,478.52 | 2,239.29 | 7,952.06 | 3,982.74 | 0.57 | -0.14 | 0.050 |
| 42.00 | -35.29 | -2.47 | 0.00 | -252.29 | 0.00 | 252.29 | 4,461.44 | 2,230.77 | 7,880.06 | 3,947.38 | 0.60 | -0.14 | 0.050 |
| 42.96 | -35.27 | -2.47 | 0.00 | -249.92 | 0.00 | 249.92 | 4,444.32 | 2,222.24 | 7,808.01 | 3,912.02 | 0.63 | -0.14 | 0.050 |
| 43.00 | -34.79 | -2.44 | 0.00 | -249.82 | 0.00 | 249.82 | 4,427.16 | 2,213.70 | 7,735.91 | 3,876.66 | 0.63 | -0.14 | 0.050 |
| 44.00 | -34.32 | -2.40 | 0.00 | -247.38 | 0.00 | 247.38 | 4,410.00 | 2,205.16 | 7,663.76 | 3,841.30 | 0.66 | -0.15 | 0.050 |
| 45.00 | -33.85 | -2.37 | 0.00 | -244.98 | 0.00 | 244.98 | 4,392.80 | 2,196.62 | 7,591.56 | 3,805.94 | 0.69 | -0.15 | 0.049 |
| 46.00 | -33.38 | -2.33 | 0.00 | -242.61 | 0.00 | 242.61 | 4,375.64 | 2,188.08 | 7,519.31 | 3,770.58 | 0.72 | -0.15 | 0.049 |
| 47.00 | -32.92 | -2.30 | 0.00 | -240.28 | 0.00 | 240.28 | 4,358.44 | 2,179.54 | 7,447.01 | 3,735.22 | 0.75 | -0.16 | 0.049 |
| 48.00 | -32.45 | -2.26 | 0.00 | -237.99 | 0.00 | 237.99 | 4,341.28 | 2,171.00 | 7,374.66 | 3,700.00 | 0.79 | -0.16 | 0.049 |
| 49.00 | -32.43 | -2.26 | 0.00 | -235.73 | 0.00 | 235.73 | 4,324.08 | 2,162.46 | 7,302.38 | 3,665.00 | 0.82 | -0.16 | 0.049 |
| 49.04 | -32.15 | -2.24 | 0.00 | -235.64 | 0.00 | 235.64 | 4,306.84 | 2,153.92 | 7,230.06 | 3,630.00 | 0.82 | -0.16 | 0.055 |
| 50.00 | -31.86 | -2.22 | 0.00 | -233.49 | 0.00 | 233.49 | 4,289.56 | 2,145.38 | 7,157.70 | 3,595.00 | 0.86 | -0.17 | 0.055 |
| 51.00 | -31.56 | -2.19 | 0.00 | -231.28 | 0.00 | 231.28 | 4,272.24 | 2,136.84 | 7,085.34 | 3,560.00 | 0.89 | -0.17 | 0.055 |
| 52.00 | -31.27 | -2.17 | 0.00 | -229.08 | 0.00 | 229.08 | 4,254.88 | 2,128.30 | 7,012.94 | 3,525.00 | 0.93 | -0.17 | 0.055 |
| 53.00 | -30.98 | -2.15 | 0.00 | -226.91 | 0.00 | 226.91 | 4,237.48 | 2,119.76 | 6,940.50 | 3,490.00 | 0.96 | -0.18 | 0.054 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:48 PM

Customer: AT&T MOBILITY

| | | | | | | | | | | | | | |
|--------|--------|-------|------|---------|------|--------|----------|----------|----------|----------|------|-------|-------|
| 54.00 | -30.69 | -2.13 | 0.00 | -224.76 | 0.00 | 224.76 | 3,556.52 | 1,778.26 | 6,024.52 | 3,016.74 | 1.00 | -0.18 | 0.054 |
| 55.00 | -30.40 | -2.11 | 0.00 | -222.63 | 0.00 | 222.63 | 3,542.95 | 1,771.47 | 5,969.33 | 2,989.10 | 1.04 | -0.19 | 0.054 |
| 56.00 | -30.11 | -2.08 | 0.00 | -220.53 | 0.00 | 220.53 | 3,529.32 | 1,764.66 | 5,914.30 | 2,961.55 | 1.08 | -0.19 | 0.054 |
| 57.00 | -29.82 | -2.06 | 0.00 | -218.44 | 0.00 | 218.44 | 3,515.63 | 1,757.82 | 5,859.42 | 2,934.06 | 1.12 | -0.19 | 0.054 |
| 58.00 | -29.53 | -2.04 | 0.00 | -216.38 | 0.00 | 216.38 | 3,501.89 | 1,750.94 | 5,804.69 | 2,906.66 | 1.16 | -0.20 | 0.053 |
| 59.00 | -29.25 | -2.02 | 0.00 | -214.34 | 0.00 | 214.34 | 3,488.09 | 1,744.04 | 5,750.12 | 2,879.33 | 1.20 | -0.20 | 0.053 |
| 60.00 | -28.96 | -2.00 | 0.00 | -212.32 | 0.00 | 212.32 | 3,474.23 | 1,737.12 | 5,695.71 | 2,852.09 | 1.25 | -0.21 | 0.053 |
| 61.00 | -28.67 | -1.98 | 0.00 | -210.32 | 0.00 | 210.32 | 3,460.32 | 1,730.16 | 5,641.45 | 2,824.92 | 1.29 | -0.21 | 0.053 |
| 62.00 | -28.39 | -1.96 | 0.00 | -208.34 | 0.00 | 208.34 | 3,446.35 | 1,723.17 | 5,587.36 | 2,797.83 | 1.33 | -0.21 | 0.053 |
| 63.00 | -28.11 | -1.93 | 0.00 | -206.38 | 0.00 | 206.38 | 3,432.32 | 1,716.16 | 5,533.43 | 2,770.83 | 1.38 | -0.22 | 0.053 |
| 64.00 | -27.82 | -1.91 | 0.00 | -204.45 | 0.00 | 204.45 | 3,418.23 | 1,709.12 | 5,479.66 | 2,743.90 | 1.43 | -0.22 | 0.053 |
| 65.00 | -27.54 | -1.89 | 0.00 | -202.54 | 0.00 | 202.54 | 3,404.09 | 1,702.05 | 5,426.05 | 2,717.06 | 1.47 | -0.23 | 0.052 |
| 66.00 | -27.26 | -1.87 | 0.00 | -200.64 | 0.00 | 200.64 | 3,389.89 | 1,694.95 | 5,372.62 | 2,690.30 | 1.52 | -0.23 | 0.052 |
| 67.00 | -26.98 | -1.85 | 0.00 | -198.77 | 0.00 | 198.77 | 3,375.64 | 1,687.82 | 5,319.35 | 2,663.63 | 1.57 | -0.23 | 0.052 |
| 68.00 | -26.70 | -1.83 | 0.00 | -196.92 | 0.00 | 196.92 | 3,361.32 | 1,680.66 | 5,266.25 | 2,637.04 | 1.62 | -0.24 | 0.052 |
| 69.00 | -26.42 | -1.81 | 0.00 | -195.09 | 0.00 | 195.09 | 3,346.95 | 1,673.48 | 5,213.32 | 2,610.53 | 1.67 | -0.24 | 0.052 |
| 70.00 | -26.14 | -1.79 | 0.00 | -193.28 | 0.00 | 193.28 | 3,332.53 | 1,666.26 | 5,160.56 | 2,584.12 | 1.72 | -0.25 | 0.052 |
| 71.00 | -25.86 | -1.77 | 0.00 | -191.48 | 0.00 | 191.48 | 3,318.04 | 1,659.02 | 5,107.98 | 2,557.79 | 1.77 | -0.25 | 0.052 |
| 72.00 | -25.59 | -1.76 | 0.00 | -189.71 | 0.00 | 189.71 | 3,300.52 | 1,650.26 | 5,051.01 | 2,529.26 | 1.82 | -0.25 | 0.051 |
| 73.00 | -25.31 | -1.74 | 0.00 | -187.95 | 0.00 | 187.95 | 3,281.11 | 1,640.56 | 4,991.50 | 2,499.46 | 1.88 | -0.26 | 0.051 |
| 74.00 | -25.04 | -1.72 | 0.00 | -186.22 | 0.00 | 186.22 | 3,261.71 | 1,630.85 | 4,932.34 | 2,469.84 | 1.93 | -0.26 | 0.051 |
| 75.00 | -24.76 | -1.70 | 0.00 | -184.50 | 0.00 | 184.50 | 3,242.30 | 1,621.15 | 4,873.54 | 2,440.39 | 1.99 | -0.27 | 0.051 |
| 76.00 | -24.49 | -1.69 | 0.00 | -182.79 | 0.00 | 182.79 | 3,222.90 | 1,611.45 | 4,815.08 | 2,411.12 | 2.05 | -0.27 | 0.051 |
| 77.00 | -24.21 | -1.67 | 0.00 | -181.11 | 0.00 | 181.11 | 3,203.49 | 1,601.75 | 4,756.98 | 2,382.03 | 2.10 | -0.28 | 0.051 |
| 78.00 | -23.94 | -1.66 | 0.00 | -179.44 | 0.00 | 179.44 | 3,184.09 | 1,592.04 | 4,699.23 | 2,353.11 | 2.16 | -0.28 | 0.051 |
| 79.00 | -23.67 | -1.64 | 0.00 | -177.78 | 0.00 | 177.78 | 3,164.68 | 1,582.34 | 4,641.84 | 2,324.37 | 2.22 | -0.28 | 0.051 |
| 80.00 | -23.40 | -1.63 | 0.00 | -176.14 | 0.00 | 176.14 | 3,145.28 | 1,572.64 | 4,584.79 | 2,295.80 | 2.28 | -0.29 | 0.051 |
| 81.00 | -23.13 | -1.61 | 0.00 | -174.51 | 0.00 | 174.51 | 3,125.87 | 1,562.94 | 4,528.10 | 2,267.42 | 2.34 | -0.29 | 0.051 |
| 82.00 | -22.86 | -1.60 | 0.00 | -172.90 | 0.00 | 172.90 | 3,106.47 | 1,553.24 | 4,471.77 | 2,239.21 | 2.40 | -0.30 | 0.051 |
| 83.00 | -22.59 | -1.59 | 0.00 | -171.30 | 0.00 | 171.30 | 3,087.07 | 1,543.53 | 4,415.78 | 2,211.17 | 2.47 | -0.30 | 0.051 |
| 84.00 | -22.33 | -1.58 | 0.00 | -169.71 | 0.00 | 169.71 | 3,067.66 | 1,533.83 | 4,360.15 | 2,183.32 | 2.53 | -0.31 | 0.051 |
| 85.00 | -22.06 | -1.57 | 0.00 | -168.13 | 0.00 | 168.13 | 3,048.26 | 1,524.13 | 4,304.87 | 2,155.63 | 2.59 | -0.31 | 0.051 |
| 86.00 | -21.79 | -1.56 | 0.00 | -166.55 | 0.00 | 166.55 | 3,028.85 | 1,514.43 | 4,249.94 | 2,128.13 | 2.66 | -0.32 | 0.051 |
| 87.00 | -21.65 | -1.56 | 0.00 | -164.99 | 0.00 | 164.99 | 3,009.45 | 1,504.72 | 4,195.37 | 2,100.80 | 2.73 | -0.32 | 0.051 |
| 87.54 | -21.48 | -1.56 | 0.00 | -164.15 | 0.00 | 164.15 | 2,998.97 | 1,499.48 | 4,166.05 | 2,086.12 | 2.76 | -0.32 | 0.051 |
| 88.00 | -21.12 | -1.55 | 0.00 | -163.43 | 0.00 | 163.43 | 2,990.04 | 1,495.02 | 4,141.15 | 2,073.65 | 2.80 | -0.33 | 0.050 |
| 89.00 | -20.75 | -1.54 | 0.00 | -161.89 | 0.00 | 161.89 | 2,970.64 | 1,485.32 | 4,087.28 | 2,046.68 | 2.86 | -0.33 | 0.050 |
| 90.00 | -20.39 | -1.53 | 0.00 | -160.35 | 0.00 | 160.35 | 2,951.23 | 1,475.62 | 4,033.76 | 2,019.88 | 2.93 | -0.33 | 0.050 |
| 91.00 | -20.03 | -1.53 | 0.00 | -158.82 | 0.00 | 158.82 | 2,931.83 | 1,465.91 | 3,980.60 | 1,993.26 | 3.00 | -0.34 | 0.050 |
| 92.00 | -19.87 | -1.53 | 0.00 | -157.29 | 0.00 | 157.29 | 2,912.42 | 1,456.21 | 3,927.79 | 1,966.81 | 3.08 | -0.34 | 0.050 |
| 92.46 | -19.73 | -1.53 | 0.00 | -156.59 | 0.00 | 156.59 | 2,424.49 | 1,212.24 | 3,334.85 | 1,669.90 | 3.11 | -0.35 | 0.055 |
| 93.00 | -19.49 | -1.52 | 0.00 | -155.76 | 0.00 | 155.76 | 2,418.22 | 1,209.11 | 3,314.29 | 1,659.61 | 3.15 | -0.35 | 0.055 |
| 94.00 | -19.25 | -1.53 | 0.00 | -154.24 | 0.00 | 154.24 | 2,406.65 | 1,203.32 | 3,276.56 | 1,640.72 | 3.22 | -0.35 | 0.055 |
| 95.00 | -19.01 | -1.53 | 0.00 | -152.71 | 0.00 | 152.71 | 2,395.02 | 1,197.51 | 3,238.97 | 1,621.89 | 3.30 | -0.36 | 0.055 |
| 96.00 | -18.34 | -1.53 | 0.00 | -151.19 | 0.00 | 151.19 | 2,383.33 | 1,191.67 | 3,201.50 | 1,603.13 | 3.37 | -0.36 | 0.055 |
| 97.00 | -18.10 | -1.53 | 0.00 | -149.66 | 0.00 | 149.66 | 2,371.59 | 1,185.79 | 3,164.18 | 1,584.44 | 3.45 | -0.37 | 0.054 |
| 98.00 | -17.86 | -1.54 | 0.00 | -148.12 | 0.00 | 148.12 | 2,359.79 | 1,179.89 | 3,126.99 | 1,565.82 | 3.53 | -0.37 | 0.054 |
| 99.00 | -17.62 | -1.55 | 0.00 | -146.58 | 0.00 | 146.58 | 2,347.93 | 1,173.97 | 3,089.94 | 1,547.27 | 3.61 | -0.38 | 0.054 |
| 100.00 | -17.39 | -1.55 | 0.00 | -145.04 | 0.00 | 145.04 | 2,336.02 | 1,168.01 | 3,053.03 | 1,528.79 | 3.69 | -0.38 | 0.054 |
| 101.00 | -17.15 | -1.56 | 0.00 | -143.49 | 0.00 | 143.49 | 2,324.05 | 1,162.02 | 3,016.27 | 1,510.38 | 3.77 | -0.39 | 0.054 |
| 102.00 | -16.91 | -1.57 | 0.00 | -141.93 | 0.00 | 141.93 | 2,312.02 | 1,156.01 | 2,979.65 | 1,492.04 | 3.85 | -0.39 | 0.053 |
| 103.00 | -16.73 | -1.58 | 0.00 | -140.36 | 0.00 | 140.36 | 2,299.80 | 1,149.90 | 2,943.01 | 1,473.69 | 3.93 | -0.40 | 0.053 |
| 103.75 | -16.69 | -1.58 | 0.00 | -139.18 | 0.00 | 139.18 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 3.99 | -0.40 | 0.053 |
| 103.75 | -16.69 | -1.58 | 0.00 | -139.18 | 0.00 | 139.18 | 2,287.68 | 1,143.84 | 2,911.90 | 1,458.11 | 3.99 | -0.40 | 0.103 |
| 104.00 | -16.51 | -1.59 | 0.00 | -138.78 | 0.00 | 138.78 | 2,283.63 | 1,141.82 | 2,901.57 | 1,452.94 | 4.02 | -0.41 | 0.103 |
| 105.00 | -16.27 | -1.60 | 0.00 | -137.20 | 0.00 | 137.20 | 2,267.46 | 1,133.73 | 2,860.42 | 1,432.33 | 4.10 | -0.42 | 0.103 |
| 106.00 | -16.09 | -1.61 | 0.00 | -135.60 | 0.00 | 135.60 | 2,251.29 | 1,125.65 | 2,819.56 | 1,411.88 | 4.19 | -0.43 | 0.103 |
| 107.00 | -15.92 | -1.62 | 0.00 | -133.99 | 0.00 | 133.99 | 2,235.12 | 1,117.56 | 2,779.00 | 1,391.56 | 4.28 | -0.44 | 0.103 |
| 108.00 | -15.75 | -1.63 | 0.00 | -132.37 | 0.00 | 132.37 | 2,218.95 | 1,109.48 | 2,738.73 | 1,371.40 | 4.37 | -0.45 | 0.104 |
| 109.00 | -15.58 | -1.64 | 0.00 | -130.73 | 0.00 | 130.73 | 2,202.78 | 1,101.39 | 2,698.75 | 1,351.38 | 4.47 | -0.46 | 0.104 |
| 110.00 | -15.41 | -1.66 | 0.00 | -129.09 | 0.00 | 129.09 | 2,186.61 | 1,093.30 | 2,659.07 | 1,331.51 | 4.57 | -0.47 | 0.104 |
| 111.00 | -15.24 | -1.67 | 0.00 | -127.43 | 0.00 | 127.43 | 2,170.44 | 1,085.22 | 2,619.69 | 1,311.79 | 4.67 | -0.48 | 0.104 |
| 112.00 | -13.66 | -1.76 | 0.00 | -125.76 | 0.00 | 125.76 | 2,154.27 | 1,077.13 | 2,580.59 | 1,292.21 | 4.77 | -0.49 | 0.104 |
| 113.00 | -13.53 | -1.77 | 0.00 | -124.00 | 0.00 | 124.00 | 2,138.10 | 1,069.05 | 2,541.79 | 1,272.79 | 4.87 | -0.50 | 0.104 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:48 PM

Customer: AT&T MOBILITY

| | | | | | | | | | | | | | |
|--------|--------|-------|------|---------|------|--------|----------|----------|----------|----------|-------|-------|-------|
| 114.00 | -13.41 | -1.78 | 0.00 | -122.23 | 0.00 | 122.23 | 2,121.93 | 1,060.96 | 2,503.29 | 1,253.50 | 4.98 | -0.52 | 0.104 |
| 115.00 | -13.28 | -1.79 | 0.00 | -120.45 | 0.00 | 120.45 | 2,105.76 | 1,052.88 | 2,465.08 | 1,234.37 | 5.09 | -0.53 | 0.104 |
| 116.00 | -13.16 | -1.80 | 0.00 | -118.66 | 0.00 | 118.66 | 2,089.59 | 1,044.79 | 2,427.16 | 1,215.38 | 5.20 | -0.54 | 0.104 |
| 117.00 | -13.04 | -1.81 | 0.00 | -116.85 | 0.00 | 116.85 | 2,073.42 | 1,036.71 | 2,389.54 | 1,196.54 | 5.31 | -0.55 | 0.104 |
| 118.00 | -12.91 | -1.82 | 0.00 | -115.04 | 0.00 | 115.04 | 2,057.25 | 1,028.62 | 2,352.21 | 1,177.85 | 5.43 | -0.56 | 0.104 |
| 119.00 | -12.79 | -1.83 | 0.00 | -113.22 | 0.00 | 113.22 | 2,041.07 | 1,020.54 | 2,315.17 | 1,159.31 | 5.55 | -0.57 | 0.104 |
| 120.00 | -12.67 | -1.84 | 0.00 | -111.38 | 0.00 | 111.38 | 2,024.90 | 1,012.45 | 2,278.43 | 1,140.91 | 5.67 | -0.59 | 0.104 |
| 121.00 | -12.55 | -1.85 | 0.00 | -109.54 | 0.00 | 109.54 | 2,008.73 | 1,004.37 | 2,241.98 | 1,122.66 | 5.80 | -0.60 | 0.104 |
| 122.00 | -12.43 | -1.86 | 0.00 | -107.69 | 0.00 | 107.69 | 1,992.56 | 996.28 | 2,205.83 | 1,104.55 | 5.92 | -0.61 | 0.104 |
| 123.00 | -12.31 | -1.87 | 0.00 | -105.83 | 0.00 | 105.83 | 1,976.39 | 988.20 | 2,169.97 | 1,086.60 | 6.05 | -0.62 | 0.104 |
| 124.00 | -12.20 | -1.88 | 0.00 | -103.95 | 0.00 | 103.95 | 1,960.22 | 980.11 | 2,134.40 | 1,068.79 | 6.18 | -0.63 | 0.103 |
| 125.00 | -10.25 | -1.99 | 0.00 | -102.07 | 0.00 | 102.07 | 1,944.05 | 972.03 | 2,099.13 | 1,051.12 | 6.32 | -0.65 | 0.102 |
| 126.00 | -10.14 | -1.99 | 0.00 | -100.09 | 0.00 | 100.09 | 1,927.88 | 963.94 | 2,064.15 | 1,033.61 | 6.45 | -0.66 | 0.102 |
| 127.00 | -10.03 | -2.00 | 0.00 | -98.09 | 0.00 | 98.09 | 1,911.71 | 955.86 | 2,029.46 | 1,016.24 | 6.59 | -0.67 | 0.102 |
| 128.00 | -9.92 | -2.01 | 0.00 | -96.09 | 0.00 | 96.09 | 1,895.54 | 947.77 | 1,995.07 | 999.02 | 6.74 | -0.68 | 0.101 |
| 129.00 | -9.81 | -2.01 | 0.00 | -94.09 | 0.00 | 94.09 | 1,879.37 | 939.68 | 1,960.98 | 981.95 | 6.88 | -0.70 | 0.101 |
| 130.00 | -9.70 | -2.02 | 0.00 | -92.07 | 0.00 | 92.07 | 1,863.20 | 931.60 | 1,927.17 | 965.02 | 7.03 | -0.71 | 0.101 |
| 131.00 | -9.59 | -2.03 | 0.00 | -90.05 | 0.00 | 90.05 | 1,847.03 | 923.51 | 1,893.66 | 948.24 | 7.18 | -0.72 | 0.100 |
| 132.00 | -9.58 | -2.03 | 0.00 | -88.03 | 0.00 | 88.03 | 1,830.86 | 915.43 | 1,860.45 | 931.61 | 7.33 | -0.74 | 0.100 |
| 132.12 | -9.44 | -2.03 | 0.00 | -87.78 | 0.00 | 87.78 | 1,828.92 | 914.46 | 1,856.49 | 929.63 | 7.35 | -0.74 | 0.100 |
| 133.00 | -9.29 | -2.04 | 0.00 | -86.00 | 0.00 | 86.00 | 1,814.69 | 907.34 | 1,827.53 | 915.12 | 7.49 | -0.75 | 0.099 |
| 134.00 | -9.14 | -2.04 | 0.00 | -83.96 | 0.00 | 83.96 | 1,798.52 | 899.26 | 1,794.90 | 898.78 | 7.65 | -0.76 | 0.099 |
| 135.00 | -6.55 | -2.08 | 0.00 | -81.92 | 0.00 | 81.92 | 1,782.35 | 891.17 | 1,762.57 | 882.59 | 7.81 | -0.77 | 0.096 |
| 135.87 | -6.54 | -2.08 | 0.00 | -80.11 | 0.00 | 80.11 | 999.39 | 499.70 | 1,006.16 | 503.83 | 7.95 | -0.79 | 0.166 |
| 136.00 | -6.47 | -2.08 | 0.00 | -79.84 | 0.00 | 79.84 | 998.64 | 499.32 | 1,004.22 | 502.86 | 7.97 | -0.79 | 0.165 |
| 137.00 | -6.39 | -2.08 | 0.00 | -77.76 | 0.00 | 77.76 | 992.83 | 496.42 | 989.37 | 495.42 | 8.14 | -0.81 | 0.163 |
| 138.00 | -6.32 | -2.08 | 0.00 | -75.68 | 0.00 | 75.68 | 986.97 | 493.49 | 974.56 | 488.00 | 8.31 | -0.83 | 0.161 |
| 139.00 | -6.24 | -2.08 | 0.00 | -73.60 | 0.00 | 73.60 | 981.05 | 490.53 | 959.80 | 480.61 | 8.48 | -0.85 | 0.160 |
| 140.00 | -5.60 | -2.07 | 0.00 | -71.51 | 0.00 | 71.51 | 975.08 | 487.54 | 945.09 | 473.25 | 8.66 | -0.87 | 0.157 |
| 141.00 | -5.53 | -2.07 | 0.00 | -69.44 | 0.00 | 69.44 | 969.05 | 484.52 | 930.44 | 465.91 | 8.85 | -0.89 | 0.155 |
| 142.00 | -5.46 | -2.07 | 0.00 | -67.36 | 0.00 | 67.36 | 962.96 | 481.48 | 915.84 | 458.60 | 9.04 | -0.91 | 0.153 |
| 143.00 | -5.39 | -2.07 | 0.00 | -65.29 | 0.00 | 65.29 | 956.81 | 478.41 | 901.30 | 451.32 | 9.23 | -0.93 | 0.150 |
| 144.00 | -5.33 | -2.07 | 0.00 | -63.22 | 0.00 | 63.22 | 950.61 | 475.30 | 886.82 | 444.07 | 9.43 | -0.95 | 0.148 |
| 145.00 | -5.26 | -2.07 | 0.00 | -61.14 | 0.00 | 61.14 | 944.35 | 472.17 | 872.40 | 436.85 | 9.63 | -0.97 | 0.146 |
| 146.00 | -5.19 | -2.07 | 0.00 | -59.08 | 0.00 | 59.08 | 938.03 | 469.01 | 858.03 | 429.66 | 9.83 | -0.99 | 0.143 |
| 147.00 | -5.13 | -2.06 | 0.00 | -57.01 | 0.00 | 57.01 | 931.66 | 465.83 | 843.74 | 422.50 | 10.04 | -1.01 | 0.140 |
| 148.00 | -5.06 | -2.06 | 0.00 | -54.95 | 0.00 | 54.95 | 925.22 | 462.61 | 829.51 | 415.37 | 10.26 | -1.03 | 0.138 |
| 149.00 | -5.00 | -2.05 | 0.00 | -52.89 | 0.00 | 52.89 | 918.73 | 459.37 | 815.34 | 408.28 | 10.48 | -1.05 | 0.135 |
| 150.00 | -4.80 | -2.03 | 0.00 | -50.84 | 0.00 | 50.84 | 912.19 | 456.09 | 801.24 | 401.22 | 10.70 | -1.07 | 0.132 |
| 151.00 | -4.73 | -2.03 | 0.00 | -48.80 | 0.00 | 48.80 | 905.59 | 452.79 | 787.21 | 394.19 | 10.92 | -1.09 | 0.129 |
| 152.00 | -4.67 | -2.02 | 0.00 | -46.78 | 0.00 | 46.78 | 898.93 | 449.46 | 773.25 | 387.20 | 11.15 | -1.11 | 0.126 |
| 153.00 | -4.61 | -2.01 | 0.00 | -44.76 | 0.00 | 44.76 | 892.21 | 446.10 | 759.37 | 380.25 | 11.39 | -1.13 | 0.123 |
| 154.00 | -4.54 | -2.00 | 0.00 | -42.75 | 0.00 | 42.75 | 885.44 | 442.72 | 745.56 | 373.33 | 11.63 | -1.14 | 0.120 |
| 155.00 | -4.48 | -2.00 | 0.00 | -40.74 | 0.00 | 40.74 | 878.60 | 439.30 | 731.82 | 366.45 | 11.87 | -1.16 | 0.116 |
| 156.00 | -4.42 | -1.99 | 0.00 | -38.75 | 0.00 | 38.75 | 871.72 | 435.86 | 718.16 | 359.61 | 12.11 | -1.18 | 0.113 |
| 157.00 | -4.36 | -1.98 | 0.00 | -36.76 | 0.00 | 36.76 | 864.77 | 432.39 | 704.58 | 352.81 | 12.36 | -1.20 | 0.109 |
| 158.00 | -4.30 | -1.96 | 0.00 | -34.79 | 0.00 | 34.79 | 857.77 | 428.88 | 691.08 | 346.05 | 12.61 | -1.22 | 0.106 |
| 159.00 | -4.24 | -1.95 | 0.00 | -32.82 | 0.00 | 32.82 | 850.71 | 425.35 | 677.66 | 339.34 | 12.87 | -1.23 | 0.102 |
| 160.00 | -4.18 | -1.94 | 0.00 | -30.87 | 0.00 | 30.87 | 843.59 | 421.80 | 664.33 | 332.66 | 13.13 | -1.25 | 0.098 |
| 161.00 | -4.12 | -1.93 | 0.00 | -28.93 | 0.00 | 28.93 | 836.42 | 418.21 | 651.08 | 326.02 | 13.39 | -1.27 | 0.094 |
| 162.00 | -4.06 | -1.91 | 0.00 | -27.00 | 0.00 | 27.00 | 829.19 | 414.59 | 637.92 | 319.43 | 13.66 | -1.28 | 0.089 |
| 163.00 | -4.00 | -1.90 | 0.00 | -25.09 | 0.00 | 25.09 | 819.85 | 409.92 | 623.28 | 312.10 | 13.93 | -1.30 | 0.085 |
| 164.00 | -3.94 | -1.88 | 0.00 | -23.20 | 0.00 | 23.20 | 810.15 | 405.07 | 608.54 | 304.72 | 14.20 | -1.31 | 0.081 |
| 165.00 | -3.88 | -1.86 | 0.00 | -21.32 | 0.00 | 21.32 | 800.44 | 400.22 | 593.98 | 297.43 | 14.48 | -1.32 | 0.077 |
| 166.00 | -3.82 | -1.85 | 0.00 | -19.45 | 0.00 | 19.45 | 790.74 | 395.37 | 579.60 | 290.23 | 14.76 | -1.34 | 0.072 |
| 167.00 | -2.68 | -1.47 | 0.00 | -17.61 | 0.00 | 17.61 | 781.04 | 390.52 | 565.39 | 283.11 | 15.04 | -1.35 | 0.066 |
| 168.00 | -2.64 | -1.45 | 0.00 | -16.14 | 0.00 | 16.14 | 771.34 | 385.67 | 551.35 | 276.09 | 15.32 | -1.36 | 0.062 |
| 169.00 | -2.59 | -1.43 | 0.00 | -14.69 | 0.00 | 14.69 | 761.63 | 380.82 | 537.50 | 269.15 | 15.61 | -1.37 | 0.058 |
| 170.00 | -2.54 | -1.42 | 0.00 | -13.26 | 0.00 | 13.26 | 751.93 | 375.97 | 523.82 | 262.30 | 15.90 | -1.38 | 0.054 |
| 171.00 | -2.50 | -1.40 | 0.00 | -11.84 | 0.00 | 11.84 | 742.23 | 371.11 | 510.32 | 255.54 | 16.19 | -1.39 | 0.050 |
| 172.00 | -2.45 | -1.38 | 0.00 | -10.44 | 0.00 | 10.44 | 732.53 | 366.26 | 496.99 | 248.86 | 16.48 | -1.40 | 0.045 |
| 173.00 | -2.41 | -1.36 | 0.00 | -9.06 | 0.00 | 9.06 | 722.82 | 361.41 | 483.84 | 242.28 | 16.78 | -1.41 | 0.041 |
| 174.00 | -2.36 | -1.34 | 0.00 | -7.70 | 0.00 | 7.70 | 713.12 | 356.56 | 470.86 | 235.78 | 17.07 | -1.42 | 0.036 |
| 175.00 | -2.32 | -1.32 | 0.00 | -6.37 | 0.00 | 6.37 | 703.42 | 351.71 | 458.07 | 229.37 | 17.37 | -1.42 | 0.031 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:48 PM

Customer: AT&T MOBILITY

| | | | | | | | | | | | | | |
|--------|-------|-------|------|-------|------|------|--------|--------|--------|--------|-------|-------|-------|
| 176.00 | -2.27 | -1.30 | 0.00 | -5.05 | 0.00 | 5.05 | 693.72 | 346.86 | 445.44 | 223.05 | 17.67 | -1.43 | 0.026 |
| 177.00 | -2.23 | -1.27 | 0.00 | -3.75 | 0.00 | 3.75 | 684.02 | 342.01 | 433.00 | 216.82 | 17.97 | -1.43 | 0.021 |
| 178.00 | -2.19 | -1.25 | 0.00 | -2.48 | 0.00 | 2.48 | 674.31 | 337.16 | 420.73 | 210.68 | 18.27 | -1.43 | 0.015 |
| 179.00 | -2.14 | -1.23 | 0.00 | -1.23 | 0.00 | 1.23 | 664.61 | 332.31 | 408.64 | 204.62 | 18.57 | -1.44 | 0.009 |
| 180.00 | 0.00 | -1.17 | 0.00 | 0.00 | 0.00 | 0.00 | 654.91 | 327.45 | 396.72 | 198.65 | 18.87 | -1.44 | 0.000 |

Site Number: 302506

Code: ANSI/TIA-222-G

© 2007 - 2017 by ATC IP LLC. All rights reserved.

Site Name: Winchester CT 3, CT

Engineering Number: OAA714359_C3_01

10/24/2017 12:32:48 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 | 33.42 | 0.00 | 69.50 | 0.00 | 0.00 | 3922.10 | 135.87 | 0.67 |
| 0.9D + 1.6W | 31.95 | 0.00 | 52.12 | 0.00 | 0.00 | 3769.71 | 135.87 | 0.64 |
| 1.2D + 1.0Di + 1.0Wi | 6.02 | 0.00 | 143.82 | 0.00 | 0.00 | 793.01 | 135.87 | 0.18 |
| (1.2 + 0.2Sds) * DL + E ELFM | 2.94 | 0.00 | 71.18 | 0.00 | 0.00 | 403.05 | 135.87 | 0.09 |
| (1.2 + 0.2Sds) * DL + E EMAM | 3.26 | 0.00 | 71.18 | 0.00 | 0.00 | 383.39 | 135.87 | 0.17 |
| (0.9 - 0.2Sds) * DL + E ELFM | 2.94 | 0.00 | 49.59 | 0.00 | 0.00 | 395.60 | 135.87 | 0.08 |
| (0.9 - 0.2Sds) * DL + E EMAM | 3.25 | 0.00 | 49.59 | 0.00 | 0.00 | 375.32 | 135.87 | 0.17 |
| 1.0D + 1.0W | 8.91 | 0.00 | 57.93 | 0.00 | 0.00 | 1056.35 | 135.87 | 0.19 |

Additional Steel Summary

| Elev From (ft) | Elev To (ft) | Member | Intermediate Connectors | | | Upper Termination Connectors | | | | Lower Termination Connectors | | | | Max Member | | |
|----------------|--------------|----------------------|-------------------------|----------------|--------------|------------------------------|--------------|----------|------------|------------------------------|--------------|----------|------------|------------|-------------|-------|
| | | | VQ/I (lb/in) | Applied (kips) | phiVn (kips) | MQ/I (kips) | phiVn (kips) | Num Reqd | Num Actual | MQ/I (kips) | phiVn (kips) | Num Reqd | Num Actual | Pu (kip) | phiPn (kip) | Ratio |
| 0.00 | 103. | (4) SOL-#20 All Thre | 281.2 | 8.4 | 16.8 | 135.3 | 12.0 | 12 | 24 | 0.0 | 12.0 | 0 | 0 | 207.8 | 330.5 | 0.629 |

| | | |
|--------------------------|---------------------|------------------|
| Base/Flange Plate | Plate Type | Baseplate |
| | Pole Diameter | 52.75 in |
| | Pole Thickness | 0.4375 in |
| | Plate Diameter | 68 in |
| | Plate Thickness | 2 in |
| | Plate Fy | 50 ksi |
| | Weld Length | 0.375 in |
| | ϕ_s Resistance | 1448.04 k-in |
| Applied | 414.92 k-in | |
| Stiffeners | # | 12 Show |
| | Thickness | 0.75 in |
| | Length | 6 in |
| | Height | 15 in |
| | Chamfer | 1 in |
| | Offset Angle | 22.5 ° |
| | Fy | 36 ksi |

| | | |
|----------------------|---------------------------------|-----------|
| Bolts | # | 16 |
| | Bolt Circle (R)adial / (S)quare | R |
| | Diameter | 2.25 in |
| | Hole Diameter | 2.75 in |
| | Type | A615-75 |
| | Fy | 75 ksi |
| | Fu | 100 ksi |
| | ϕ_s Resistance | 259.82 k |
| Applied | 144.32 k | |
| Reinforcement | # | 4 |
| | DYW. Circle | 59.625 in |
| | Offset Angle | 11.25 ° |
| | Type | #20 |
| | Diameter | 2.5 in |
| | Fu | 100 ksi |
| ϕ_s Resistance | 392.70 k | |
| Applied | 202.68 k | |
| Extra Bolts O | # | 0 |

Code Rev. **G** Date **10/24/2017**
 Engineer **Trevor.Ridilla**
 Site # **302506**
 Carrier **AT&T MOBILITY**

Moment **3922.1 k-ft**
 Axial **69.5 k**

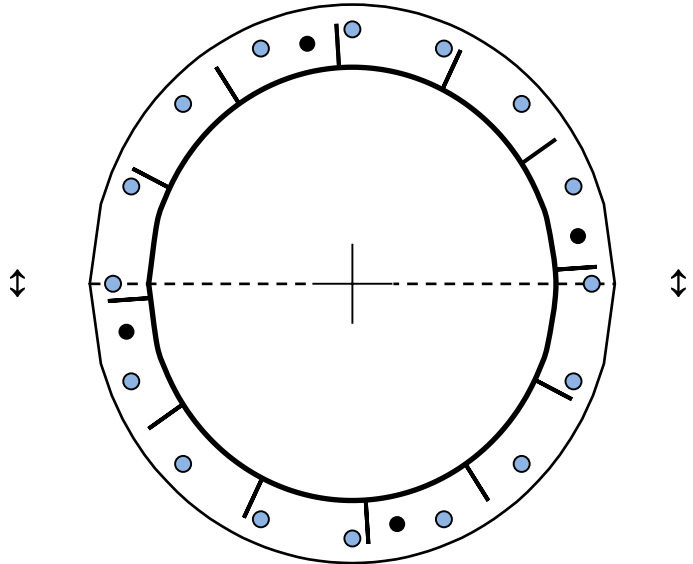


Plate Stress Ratio:
0.29 (Pass)

Bolt Stress Ratio:
0.56 (Pass)

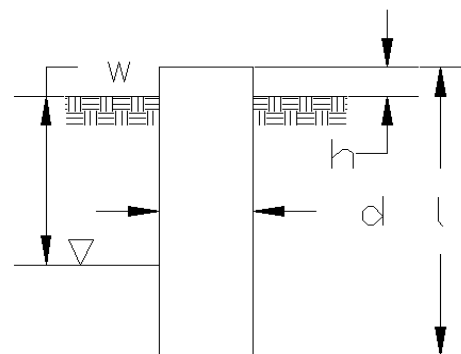
Reinforcement Stress Ratio:
0.52 (Pass)

Site Name: Winchester CT 3, CT
 Site Number: 302506
 Engineer: Trevor.Ridilla
 Engineering Number: OAA714359
 Date: 10/24/17

Program Last Updated: 5/13/2014
 American Tower Corporation

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

| | |
|---------------------------------|-------------|
| Analyze or Design a Foundation? | Analyze |
| Foundation Mapped: | N |
| Moment (M): | 3922.1 k-ft |
| Shear/Leg (V): | 33.4 k |
| Axial Load (P): | 69.5 k |
| Uplift/Leg (U): | 0.0 k |
| Tower Type (GT / SST / MP): | MP |



| | |
|--|--------------|
| Diameter of Caisson (d): | 7.0 ft |
| Caisson Embedment (L-h): | 17.0 ft |
| Caisson Height Above Ground (h): | 1.0 ft |
| Depth Below Ground Surface to Water Table (w): | 99.0 ft |
| Unit Weight of Concrete: | 150.0 pcf |
| Unit Weight of Water: | 62.4 pcf |
| Tension Skin Friction/Compression Skin Friction: | 1.00 |
| Pullout Angle: | 30.0 degrees |

Engineer Notes

Soil Mechanical Properties

| Depth (ft) | | γ_{Soil} | Cohesion | ϕ | Ultimate Skin | Ultimate Bearing |
|------------|--------|-----------------|----------|----------|----------------|------------------|
| Top | Bottom | (pcf) | (psf) | (degree) | Friction (psf) | Pressure (psf) |
| 0.0 | 3.5 | 165 | 0 | 0 | 0 | 0 |
| 3.5 | 7.5 | 165 | 6000 | 0 | 2700 | 0 |
| 7.5 | 18.0 | 165 | 6000 | 0 | 2700 | 11277 |

| | |
|--|--|
| Required Embedment: | 13.4 ft - OK, Caisson Embedment Satisfactory |
| Volume of Concrete: | 692.7 ft ³ = 25.7 yd ³ |
| Weight of Concrete (Buoyancy Effect Considered): | 103.9 k |
| Average Soil Unit Weight: | 165.0 pcf |
| Skin Friction Resistance: | 801.6 k |
| Compressive Bearing Resistance: | 434.0 k |
| Pullout Weight (Minus Concrete Weight): | 585.7 k |
| Nominal Uplift Capacity per Leg ($\phi_s T_n$): | 439.3 k |
| Nominal Compressive Capacity per Leg ($\phi_s P_n$): | 926.7 k |
| P_u : | 57.7 k |
| $T_u / \phi_s T_n$: | 0.00 Result: OK |
| $P_u / \phi_s P_n$: | 0.06 Result: OK |
| Total Lateral Resistance: | 4082.8 k |
| Inflection Point (Below Ground Surface): | 10.8 ft |
| Design Overturning Moment At Inflection Point (M_D): | 4315.5 k-ft |
| Nominal Moment Capacity ($\phi_s M_n$): | 9851.4 k-ft |
| $M_D / \phi_s M_n$: | 0.44 Result: OK |
| ϕ_s : | 0.75 |

Caisson Strength Capacity

| | |
|--|--|
| Concrete Compressive Strength (f'_c): | 4000 psi |
| Vertical Steel Rebar Size #: | 11 |
| Vertical Steel Rebar Area: | 1.56 in ² |
| # of Vertical Steel Rebars: | 42 |
| Vertical Steel Rebar Yield Strength (F_y): | 60 ksi |
| Horizontal Tie / Stirrup Size #: | 5 |
| Horizontal Tie / Stirrup Area: | 0.31 in ² |
| Design Horizontal Tie / Stirrup Spacing: | 12.0 in |
| Horizontal Tie / Stirrup Steel Yield Strength (F_y): | 60 ksi |
| Rebar Cage Diameter: | 76.0 in |
| Strength Bending/Tension Reduction Factor (ϕ_B): | 0.90 ACI318-05 - 9.3.2.1 |
| Strength Shear Reduction Factor (ϕ_V): | 0.75 ACI318-05 - 9.3.2.3 |
| Strength Compression Reduction Factor (ϕ_P): | 0.65 ACI318-05 - 9.3.2.2 |
| Steel Elastic Modulus: | 29000 ksi |
| Design Moment (M_u): | 3963.6 k-ft |
| Nominal Moment Capacity ($\phi_B M_n$): | 10956.3 k-ft - ACI318-005 - 10.2 |
| $M_u / \phi_B M_n$: | 0.36 Result: OK |
| Design Shear (V_u): | 582.9 k |
| Nominal Shear Capacity ($\phi_V V_n$): | 685.3 k - ACI318-05 - 11.3.1.1 or 11.5.7.2 |
| $V_u / \phi_V V_n$: | 0.85 Result: OK |
| Design Tension (T_u): | 0.0 k |
| Nominal Tension Capacity ($\phi_T T_n$): | 3538.1 k - ACI318-05 - 10.2 |
| $T_u / \phi_T T_n$: | 0.00 Result: OK |
| Design Compression (P_u): | 57.7 k |
| Nominal Compression Capacity ($\phi_P P_n$): | 9682.0 k - ACI318-05 - 10.3.6.2 |
| $P_u / \phi_P P_n$: | 0.01 Result: OK |
| Bending Reinforcement Ratio: | 0.012 ACI318-05 - 10.8.4 & 10.9.1 |
| $M_u / \phi_B M_n + T_u / \phi_T T_n$: | 0.36 Result: OK |

EXHIBIT 4



Radio Frequency Emissions Analysis Report

AT&T Existing Facility

Site ID: CT1071

FA#: 10035017

Winsted_Winchester

15 Oakdale Avenue

Winsted, CT 06098

February 28, 2018

Centerline Communications Project Number: 950012-040

| Site Compliance Summary | |
|---|------------------|
| Compliance Status: | COMPLIANT |
| Site total MPE% of FCC general population allowable limit: | 8.42 % |



February 28, 2018

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

Emissions Analysis for Site: **CT1071 – Winsted_Winchester**

Centerline Communications, LLC (“Centerline”) was directed to analyze the proposed AT&T facility located at **15 Oakdale Avenue, Winsted, CT**, for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property are within specified federal limits.

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

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

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

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 700 and 850 MHz Bands are approximately $467 \mu\text{W}/\text{cm}^2$ and $567 \mu\text{W}/\text{cm}^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 2300 MHz (WCS) bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



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

Additional details can be found in FCC OET 65.



CALCULATIONS

Calculations were performed for the proposed AT&T Wireless antenna facility located at **15 Oakdale Avenue, Winsted, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

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

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

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

| Technology | Frequency Band | Channel Count | Transmit Power per Channel (W) |
|------------|-------------------|---------------|--------------------------------|
| UMTS | 850 MHz | 1 | 30 |
| LTE | 700 MHz | 2 | 40 |
| LTE | 1900 MHz (PCS) | 4 | 40 |
| LTE | 700 MHz (Band 14) | 4 | 40 |
| LTE | 2100 MHz (AWS) | 4 | 60 |

Table 1: Channel Data Table



The following antennas listed in *Table 2* were used in the modeling for transmission in the 700 MHz, 850 MHz, 1900 MHz (PCS), 2100 MHz (AWS) and 2300 MHz (WCS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

| Sector | Antenna Number | Antenna Make / Model | Antenna Centerline (ft) |
|--------|----------------|---------------------------|-------------------------|
| A | 1 | Powerwave 7770 | 184 |
| A | 2 | KMW AM-X-CD-16-65-00T-RET | 184 |
| A | 3 | CCI HPA-65R-BUU-H6 | 184 |
| B | 1 | Powerwave 7770 | 184 |
| B | 2 | KMW AM-X-CD-16-65-00T-RET | 184 |
| B | 3 | CCI HPA-65R-BUU-H6 | 184 |
| C | 1 | Powerwave 7770 | 184 |
| C | 2 | KMW AM-X-CD-16-65-00T-RET | 184 |
| C | 3 | CCI HPA-65R-BUU-H6 | 184 |

Table 2: Antenna Data

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

RESULTS

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

| Antenna ID | Antenna Make / Model | Frequency Bands | Antenna Gain (dBd) | Channel Count | Total TX Power (W) | ERP (W) | MPE % |
|-------------------------|------------------------------|---------------------------------------|--------------------|---------------|--------------------|----------|-------------|
| Antenna A1 | Powerwave 7770 | 850 MHz | 11.4 | 1 | 30 | 414.12 | 0.08 |
| Antenna A2 | KMW AM-X-CD-16-65-00T-RET | 700 MHz / 1900 MHz (PCS) | 13.35 / 15.25 | 6 | 240 | 7,089.62 | 1.03 |
| Antenna A3 | CCI HPA-65R-BUU-H6 | 700 MHz (Band 14) / 2100 MHz (AWS) | 11.95 / 15.05 | 8 | 280 | 6,345.48 | 1.04 |
| Sector A Composite MPE% | | | | | | | 2.16 |
| Antenna B1 | Powerwave 7770 | 850 MHz | 11.4 | 1 | 30 | 414.12 | 0.08 |
| Antenna B2 | KMW AM-X-CD-16-65-00T-RET | 700 MHz / 1900 MHz (PCS) | 13.35 / 15.25 | 6 | 240 | 7,089.62 | 1.03 |
| Antenna B3 | CCI HPA-65R-BUU-H6 | 700 MHz (Band 14) / 2100 MHz (AWS) | 11.95 / 15.05 | 8 | 280 | 6,345.48 | 1.04 |
| Sector B Composite MPE% | | | | | | | 2.16 |
| Antenna C1 | Powerwave 7770 | 850 MHz | 11.4 | 1 | 30 | 414.12 | 0.08 |
| Antenna C2 | KMW AM-X-CD-16-65-00T-RET | 700 MHz / 1900 MHz (PCS) | 13.35 / 15.25 | 6 | 240 | 7,089.62 | 1.03 |
| Antenna C3 | CCI HPA-65R-BUU-H6 | 700 MHz (Band 14) / 2100 MHz (AWS) | 11.95 / 15.05 | 8 | 280 | 6,345.48 | 1.04 |
| Sector C Composite MPE% | | | | | | | 2.16 |

Table 3: AT&T Emissions Levels



The Following table (*table 4*) shows all additional carriers on site and their MPE% as recorded in the CSC active MPE database for this facility along with the newly calculated maximum AT&T MPE contributions per this report. FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. For this site, all three sectors have the same configuration yielding the same results on all three sectors. *Table 5* below shows a summary for each AT&T Sector as well as the composite MPE value for the site.

| Site Composite MPE% | |
|----------------------------|---------------|
| Carrier | MPE% |
| AT&T – Max Sector Value | 2.16 % |
| MetroPCS | 0.69 % |
| T-Mobile | 0.01 % |
| CTPD | 0.57 % |
| Sprint | 0.96 % |
| Verizon Wireless | 3.36 % |
| Nextel | 0.48 % |
| Northeast Utilities | 0.19 % |
| Site Total MPE %: | 8.42 % |

Table 4: All Carrier MPE Contributions

| | |
|----------------------|---------------|
| AT&T Sector A Total: | 2.16 % |
| AT&T Sector B Total: | 2.16 % |
| AT&T Sector C Total: | 2.16 % |
| <hr/> | |
| Site Total: | 8.42 % |

Table 5: Site MPE Summary



FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 6* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s). For this site, all three sectors have the same configuration yielding the same results on all three sectors.

| AT&T _ Frequency Band / Technology Max Power Values (All Sectors) | # Channels | Watts ERP (Per Channel) | Height (feet) | Total Power Density ($\mu\text{W}/\text{cm}^2$) | Frequency (MHz) | Allowable MPE ($\mu\text{W}/\text{cm}^2$) | Calculated % MPE |
|---|------------|----------------------------|------------------|--|--------------------|--|------------------|
| AT&T 850 MHz UMTS (Antenna 1) | 1 | 414.12 | 184 | 0.47 | 850 MHz | 567 | 0.08% |
| AT&T 700 MHz LTE (Antenna 2) | 2 | 865.09 | 184 | 1.96 | 700 MHz | 467 | 0.42% |
| AT&T 1900 MHz (PCS) LTE (Antenna 2) | 4 | 1,339.86 | 184 | 6.08 | 1900 MHz (PCS) | 1000 | 0.61% |
| AT&T 700 MHz LTE – Band 14 (Antenna 3) | 4 | 626.70 | 184 | 2.84 | 700 MHz | 467 | 0.61% |
| AT&T 2100 MHz (AWS) LTE (Antenna 3) | 4 | 959.67 | 184 | 4.36 | 2100 MHz (AWS) | 1000 | 0.44% |
| | | | | | | Total: | 2.16% |

Table 6: AT&T Maximum Sector MPE Power Values



Summary

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

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

| AT&T Sector | Power Density Value (%) |
|-------------------------------------|-------------------------|
| Sector A: | 2.16 % |
| Sector B: | 2.16 % |
| Sector C: | 2.16 % |
| AT&T Maximum Total (per sector): | 2.16 % |
| | |
| Site Total: | 8.42 % |
| | |
| Site Compliance Status: | COMPLIANT |

The anticipated composite MPE value for this site assuming all carriers present is **8.42 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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

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

Scott Heffernan

RF Engineering Director

Centerline Communications, LLC

95 Ryan Drive, Suite 1

Raynham, MA 02767