

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts
and New York

August 6, 2021

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification
45 Fargo Road, Waterford, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Town of Waterford in April 1999. Cellco’s shared use of the tower was approved by the Council in December 1999 (TS-BAM-152-991124). A copy of Town’s approval and Cellco’s tower share approval are included in [Attachment 1](#).

Cellco now intends to modify its facility by removing nine (9) existing antennas and installing three (3) new Samsung MT6407-77A antennas; and six (6) JAHH-65B-R3B antennas. Cellco will also remove three (3) existing remote radio heads (“RRHs”) and install six (6) new RRHs all on Cellco’s existing antenna platform. A set of project plans showing Cellco’s proposed facility modifications and new antennas and RRHs specifications are included in [Attachment 2](#). Please note, Cellco refers to this facility as its Montville 2 cell site.

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 Waterford’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.
August 6, 2021
Page 2

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas will be installed on Cellco's existing antenna platform.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas and RRHs will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative general power density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounts with certain modifications can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 6.

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

Melanie A. Bachman, Esq.
August 6, 2021
Page 3

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

Robert Brule, Waterford First Selectman
Abby Piersall, AICP, Waterford Planning Director
Angioletto LLC, Property Owner
Aleksey Tyurin

ATTACHMENT 1



April 27, 1999

SBA Inc./Nextel Communications, Inc.
125 Shaw Street
Suite 116
New London, CT 06320

RE: #99-101/301 SBA COMMUNICATIONS TOWER
45 FARGO ROAD

Dear Sir or Madam:

At its meeting on Monday, April 26, 1999, the Town of Waterford Planning and Zoning Commission took the following action in regards to the above referenced application:

APPROVED WITH CONDITIONS: #99-101/301. Request of Rudolph Chieka, ET ALS, owners; SBA, Inc./Nextel Communications, Inc. applicants; Scott Thomae, agent; for special permit and site plan approval to locate a telecommunications tower at 45 Fargo Road, RU-120 Zone, in accordance with Section 3.6 of the Zoning Regulations and as shown on plans entitled "SBA, Inc., In Conjunction With Nextel Communications Of The Mid-Atlantic, Inc., SBA Site #4284 Waterford, 45 Fargo Road", dated January 14, 1999. This property is also known as parcel #5 on Assessor's Map #109.

Please refer to the attached minutes and special permit for the conditions of the approval.

In order to comply with the records retention schedule required by the State of Connecticut you are required to file a signed site plan with the Waterford Town Clerk.

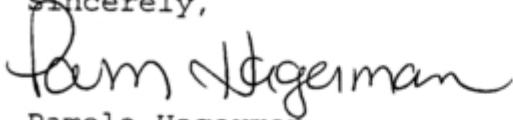
Please submit one mylar and ten (10) copies of the plans to this office for the Chairman's signature. You will be notified when the plans have been signed and you will then be required to record the mylar with the Town Clerk. After

April 27, 1999

Page 2

recording, signed plans will be distributed to various agencies and 2 copies will be returned to you.

Sincerely,

A handwritten signature in cursive script that reads "Pam Hagerman". The signature is written in dark ink and is positioned above the typed name.

Pamela Hagerman
Planning and Zoning Commission

Enclosure: Minutes
Notice of Action

Certified #: P 378 011 124

cc: Scott Thomae, agent w/enclosures
Rudolph Chieka, ET ALS, owner

Mr. Visco reviewed the site plan. He explained that there will be one building (130 units) with a circular access drive, walking trails and a majority of the site will be open space. The rear portion of the building will be for residents with early dimensia. He also stated that the buildings will constructed to fit in with the residential area.

Mr. Visco also explained that the facility will be staffed by approximately 60 full time employees, with the largest shift being 30-35 people. Most of the traffic generated by the facility would be on weekends and early evening when visitors stop by. A majority of the residents will utilize the transportation provide; approximately 5% of the residents own a vehicle.

D. Martin stated that the applicants should consider another name for the facility because the Fire Marshal commented that there is already a street named "Clark Place" in town.

This application was tabled until the May 10, 1999 meeting.

#99-101/301. Request of Rudolph Chieka, ET ALS, owners; SBA, Inc./Nextel Communications, Inc. applicants; Scott Thomae, agent; for special permit and site plan approval to locate a telecommunications tower at 45 Fargo Road, RU-120 Zone, in accordance with Section 3.6 of the Zoning Regulations and as shown on plans entitled "SBA, Inc., In Conjunction With Nextel Communications Of The Mid-Atlantic, Inc., SBA Site #4284 Waterford, 45 Fargo Road" , dated January 14, 1999. This property is also known as parcel #5 on Assessor's Map #109.

D. Martin reviewed the draft Special Permit findings review including the conditions/stipulations.

MOTION: Motion made by G. Lombardi, second by G. Blinderman to approve the communications tower with conditions/stipulations listed in Special Permit #99-101/301 (Attachment A) with the following addition:

1. Property owner(s) and SBA, Inc. are equally responsible for ensuring that the property is properly restored should the tower no longer be utilized.

VOTE: 5-0

Attachment A
Minutes of April 26, 1999
Special Permit and Site Plan

Application: #99-101/301
Owner: Rudolph Chieka, ET ALS
Applicant: SBA, Inc./Nextel Communications, Inc.
Location: 45 Fargo Road
Public Hearing Date: March 8, 1999
Public Hearing Advertisement Dates: February 24 and March 3, 1999.
Zoning Districts: RU-120
Use: Telecommunication antennae tower together with support equipment.

Description of Project: SBA, Inc./Nextel Communications, Inc. have made application to construct a 185 foot monopole type antennae structure and associated base equipment for use as a digital, cellular, two-way radio and paging communications facility on the property located at 45 Fargo Road. The subject site is undeveloped, wooded and 3.15 acres in area.

23.5 FINDINGS:

A Special Permit shall not be granted until the Planning & Zoning Commission has determined that all of the following conditions have been satisfied:

23.5.1 COMPLIANCE WITH THE ADOPTED LAND USE PLAN AND THE ZONING REGULATIONS:

Land Use Plan Designation: Lowest Density Residential

Consistency: The adopted Plan of Preservation, Conservation and Development describes the lowest density residential as areas not intended to be served by public sewer or water and where residential development is expected to occur at densities less than one unit per three acres, due to environmental and/or access constraints and desired development patterns. The Commission finds the construction of the proposed communications tower to be consistent with the adopted land use plan in that it is compatible with nearby development and the tower will not create any sewer or water demands.

Pertinent Regulations Specially Permitting the Use: Sections 3.6 and 6.2.1

23.5.2 ORDERLY DEVELOPMENT

TYPE OF STRUCTURE AND IMPROVEMENTS: The communications tower proposed is of the monopole type construction and 185' in height together with support equipment. Construction of this communications tower itself will involve little clearing of land. The plan includes access improvements, installation of underground utilities, equipment buildings, protective fencing, and landscaping.

PRESENT LAND USE OF PARCEL: The subject parcel is currently wooded and undeveloped.

ABUTTING USES: The adjacent property to the north, west and south is wooded and undeveloped. The lot adjacent to the east has been developed as a municipal water tower site. The water tower structure will be approximately 231 feet away from the communication tower itself.

ADJACENT PROPERTY EFFECT: The Commission finds after a public hearing and upon the hearing record that this proposed tower will not have any significant negative effect on adjacent properties. The Commission has also determined that the establishment of a telecommunications tower will not discourage the appropriate development and use of adjacent property.

23.5.3 PROPERTY VALUES AND CHARACTER:

The proposed use will not depreciate adjacent property values and the size and height of all proposed buildings and the extent of all proposed site improvements shall both be such as to harmonize with the existing character of the neighborhood in which such use is to be established.

STRUCTURE PLACEMENT: The proposed tower has been located on the site to limit the amount of land disturbance and clearing of existing vegetation.

NEIGHBORHOOD CHARACTERISTICS/EFFECT: The Commission finds that the construction of this communications tower will not depreciate adjacent property values in this residential area of Town. Evidence by a qualified individual was not placed into the hearing record that would demonstrate any negative

23.5.5 TRAFFIC CONSIDERATIONS:

ADEQUANCY OF PUBLIC ROADS SERVING DEVELOPMENT: The Commission finds the public road serving access to this site is more than adequate to carry all anticipated traffic

PROVISIONS FOR ACCESS TO AND FROM THE SITE; HAZARD OR CONGESTION RESULTING: The Commission finds no evidence has been placed in the record indicating any hazards or congestion will result. The amount of additional traffic anticipated (occasional service vehicles) does not warrant any further improvements to the public road system.

CONTINUATION OF STREET SYSTEM: The Commission finds the scope of this proposal and the topography of the lot does not warrant any provisions for the continuation of any street or for the provision for interlot access.

SECTION 20 COMPLIANCE: The Commission finds this proposal complies with the provisions of Section 20 of the Zoning Regulations. Sufficient parking is provided on site for both cars and trucks. The general public does not visit this property. Only occasional authorized service vehicles of the communication companies with antennas on the tower are required to access this site.

23.5.6 LANDSCAPING AND BUFFERS:

The Commission finds adequate buffers exist, and will continue to exist, after the proposed development occurs. The general area is wooded and clearing is limited to the area shown on the plan of record. The base of the tower including the equipment buildings, will be screened by a 6' high chain link fence with 1' of barbed wire on top. Additional landscape plantings are proposed along the perimeter of the security fence

23.5.7 RELATIONSHIP TO UTILITY SYSTEMS, DRAINAGE SYSTEMS, AND IMPACT ON COMMUNITY FACILITIES:

Adequate provision for stormwater drainage can be provided without adversely affecting neighboring properties or adjacent public drainage systems, and the proposed use will not adversely impact existing community facilities.

WATER: Not required by this project.

SEWER: Not required by this project.

DRAINAGE: Site improvements planned do not include a significant amount of impervious surfaces. The access drive and tower base area are not paved decreasing surface runoff. The plan limits the amount of clearing and site disturbance.

23.5.8 COMPLIANCE WITH ZONING REGULATIONS:

In addition to meeting the other conditions described herein, the proposed use and the arrangement of all proposed buildings, structures, facilities, and other site improvements shall comply with all applicable provisions of these Zoning Regulations.

SECTION 22 COMPLIANCE:

The site plan prepared and submitted with this application for special permit, as modified by the Commission, complies with the provisions of Section 22 of the Zoning Regulations.

SEAMLESS WEB/COVERAGE ANALYSIS:

Upon request of the Commission, SBA/Nextel submitted for the record a coverage analysis for the proposed communications tower. The Commission conducted a review of all co-location possibilities examining all towers existing, approved and under construction within Waterford and surrounding municipalities which could serve Waterford. The Commission has determined the subject site is most suitable for the tower because it provides a large service coverage area. This will become important when other communications companies wish to locate in Waterford. They may co-locate on the subject tower reducing the need to construct additional towers.

Along with this application, the Commission reviewed the Town's overall telecommunications cellular coverage both existing and future. This cell site will cover a substantial portion of northwest Waterford and major highways, which will supplement the communications tower recently approved on Industrial Drive. The Commission finds this particular site provides good coverage, is remote, and with co-location possibilities is a good choice to provide a significant portion of the seamless communications web that has been developed during recent years within the Town of Waterford.

STIPULATIONS AND CONDITIONS:

1. SBA/Nextel shall allow co-location on the subject tower by other communication companies requesting same using industry standard lease agreements.
2. Zoning Compliance Chart on Sheet 1 incomplete. All bulk requirements for zone district and this project shall be referenced and provided column completed with actual figures. Include frontage, maximum building height, buildable area, lot size etc. Example: front yard setback >50' not acceptable. Insert actual setback. Maximum building height. Insert height of tower.
3. The tower removal & obsolescence notes on Sheet C-4 must be modified to include the following provision:
 - a. This site will be restored at the time when the tower is no longer being used for either transmission or reception of wireless communications signal by any carrier. At the termination of this project the described removal work will be completed within six months.
4. Plan indicates access drive entrance and equipment compound are planned to be gated. The Police and Fire Departments must be provided keys for emergency entry. Contact those Departments to work out method.
5. Plans must be revised to include the location, type and fuel storage provisions for any emergency generator planned and approved by the Fire Marshal.
6. An excavation permit for any type of work within the public right-of-way is required from the Department of Public Works. Any damage to the paved access drive serving the municipal water tank must be repaired.
7. Submission of tower construction details for this particular tower to Commission staff upon final design for review for consistency with application and support materials shall be provided.
8. Limits of clearing shall be flagged in the field and verified by the Zoning Official before any clearing (tree cutting) and grading begins. (48 Hours Notice Required) If more clearing is done than is shown on the approved plan, the site will have to be restored.
9. All erosion and sedimentation controls shall be in place and inspected by Zoning Official prior to any land disturbance. (48 Hours Notice Required)
10. Submission of all building plans to Building Official and Fire Marshal for approval prior to the issuance of a Zoning Compliance Permit to begin work.

11. All disturbed areas shall be restored using 4" of topsoil, seeded and mulched. Note 10 on sheet C-4 shall be modified to this effect. If soil stabilization has not been completed due to the time of year, a performance bond will be required.
12. General note 4 on Sheet C-4 shall be modified to state that no changes to approved plans shall occur without Town of Waterford authorization.
13. This project will not be phased. All site improvements shown shall be completed at same time.
14. The Commission also acknowledges the applicant's offer in the interest of public safety to permit a Town of Waterford emergency communications antennae, with no compensation to applicant on this tower.
15. The access drive construction detail on sheet C-4 indicates an incorrect driveway width. The final plan must be modified to indicate a width of 12'.
16. The final plans shall be modified to include a temporary earth material stockpile area, including E/S controls.
17. Property owner(s) and SBA, Inc., are equally responsible for ensuring that the property is properly restored should the tower no longer be utilized.

COMMISSION ACTION:

The Commission approves application #99-101/301 for special permit and site plan review subject to the findings, stipulations and conditions contained herein. All potential adverse impacts have been addressed as modified herein.

MODIFICATION, REVISIONS, EXTENSIONS:

All revisions, extensions, and modifications to any items, conditions or stipulations in this permit shall be governed by the provisions of Section 23.9 of the Waterford Zoning Regulations.

VIOLATIONS:

Any violations of the findings, stipulations or conditions of this permit shall be subject to Section 23.8 of the Waterford Zoning Regulations.

LIST OF EXHIBITS:

EXHIBIT A - Notice of Public Hearing advertised in The Day on February 24, 1999 and March 3, 1999.

December 13, 1999

Sandy M. Carter, Manager – Regulatory
Bell Atlantic NYNEX Mobile
20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492

RE: TS-BAM-152-991124 - Cellco Partnership d/b/a Bell Atlantic Mobile request for an order to approve tower sharing at an existing telecommunications facility located at 45 Fargo Road in Waterford, Connecticut.

Dear Ms. Carter:

At a public meeting held December 8, 1999, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures.

This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used on this tower. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated November 24, 1999.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman
MAG/SLL/sll

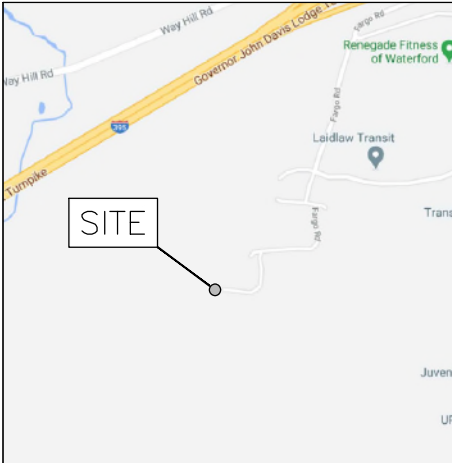
cc: Honorable Paul B. Eccard, First Selectman, Town of Waterford
Ronald C. Clark, Manager – Real Estate Operations, Nextel Communications, Inc.

ATTACHMENT 2



WIRELESS COMMUNICATIONS FACILITY

LOCATION MAP



MONTVILLE 2 CT
45 FARGO ROAD
MONTVILLE, CT 06385

PROJECT:
L-SUB6-CARRIER ADD

DRAWING INDEX

| NO. | DESCRIPTION |
|------|--|
| T-1 | TITLE SHEET |
| A-1 | TOWER ELEVATION & COMPOUND PLAN |
| A-2 | ANTENNA CONFIGURATION & SCOPE OF WORK |
| A-3 | EQUIPMENT SPECIFICATIONS, BILL OF MATERIALS & PLUMBING DIAGRAM |
| SN-1 | STRUCTURAL NOTES |
| | |
| | |
| | |
| | |

RFDS PROJECT SCOPE

RFDS SOW: 850A 5GNR/ PCS/ L-SUB 6 CARRIER ADDS, SAMSUNG DUAL BAND RRH SWAP, ANTENNA CHANGE

- 1 - RETAIN 700/ AWS CARRIERS AND ADD 850A 5GNR/ PCS/ L-SUB 6 CARRIERS
- 2 - REPLACE (6) EXISTING LTE ANTENNAS AT POSITIONS 2 & 3 WITH (6) COMMSCOPE JAHH-65B-R3B ANTENNAS ON NEW BSAMNY-SBS-3-3 MOUNTS TO POSITION 3. RETAIN (6) EXISTING CDMA ANTENNA IN POSITIONS 1 & 4
- 3 - ADD (3) SAMSUNG MT6407-77A ANTENNAS IN POSITION 2.
- 4 - REMOVE (3) EXISTING NOKIA RRHS FROM TOWER AND TRDU FROM SHELTER AND ADD (3) NEW SAMSUNG B5/B13 RRH-BR04C (RFV1U-D2A) AND (3) NEW SAMSUNG B2/B66A RRH-BR049 (RFV0AU-D1A) TO TOWER
- 5 - ADD (3) COMMSCOPE CBC78-T-DS-43 DIPLEXERS ON TOWER
- 6 - REPLACE (2) EXISTING HYBRIFLEX WITH (2) NEW 6 X 12 HYBRIFLEX LI
- 7 - PLUMB 700/850/PCS/AVISL-SUB 6 ACCORDING TO THE PLUMBING DIAGRAM
- 8 - USE RF PORTS ON DIAL BAND RRHS TO COMMUNICATE WITH RETS VIA SMART BIAS-T BUILT INTO THE ANTENNA
- 9 - CAP AND WEATHERPROOF UNUSED PORTS/CONNECTORS

SUMMARY:

- ADDING 9, REMOVING 9, RETAINING 6 (FINAL ANTENNA COUNT: 15)
- ADDING 6 RRU'S, REMOVING 4, RETAINING 0 (FINAL RRU COUNT: 6)

SUPPORTING DOCUMENTS

RADIO FREQUENCY (RF) DESIGN: 06/04/21
 MOUNT MAPPING REPORT: 02/09/21 (BY HUDSON DESIGN GROUP, LLC)
 MOUNT ANALYSIS: 03/02/21 (BY MASER CONSULTING)
 STRUCTURAL ANALYSIS: (MONOPOLE): TBD (BY SBA)
 MOUNT MODIFICATION DRAWINGS: 04/16/21 (BY MASER CONSULTING)

PROJECT INFORMATION

SITE NAME: MONTVILLE 2 CT
 LOCATION CODE: 469183
 SITE ADDRESS: 45 FARGO ROAD
 MONTVILLE, CT 06385
 LATITUDE: 41° 23' 20.35"N
 LONGITUDE: 72° 10' 11.28"W

BUILDING CODES

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

- BUILDING CODE: IRC 2015 & CONNECTICUT STATE BUILDING CODE 2018
- ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
- LIGHTENING CODE: NFPA 70-2017
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION ANSI (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

CELCO PARTNERSHIP d/b/a VERIZON WIRELESS



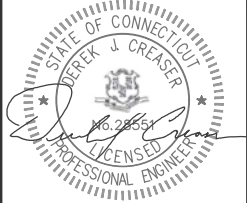
20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492



750 W CENTER ST, SUITE 301
 WEST BRIDGEWATER, MA 02379
 PHONE: 781.713.4725

| REVISIONS | | |
|-----------|----------|-------------------------|
| NO. | DATE | DESCRIPTION |
| 2 | 06/07/21 | ISSUED FOR CONSTRUCTION |
| 1 | 05/26/21 | REVISED FOR REVIEW |
| 0 | 03/18/21 | ISSUED FOR REVIEW |

DESIGNED BY: KL
 APPROVED BY: DC



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER TO SIGN THIS DOCUMENT. UNLESS EXPLICITLY AGREED TO BY THE OWNER IN WRITING, THE ENGINEER ASSUMES ALL LIABILITY ASSOCIATED WITH THE DESIGN, IN WHOLE OR IN PART, OF THE CONTRACT WORK.

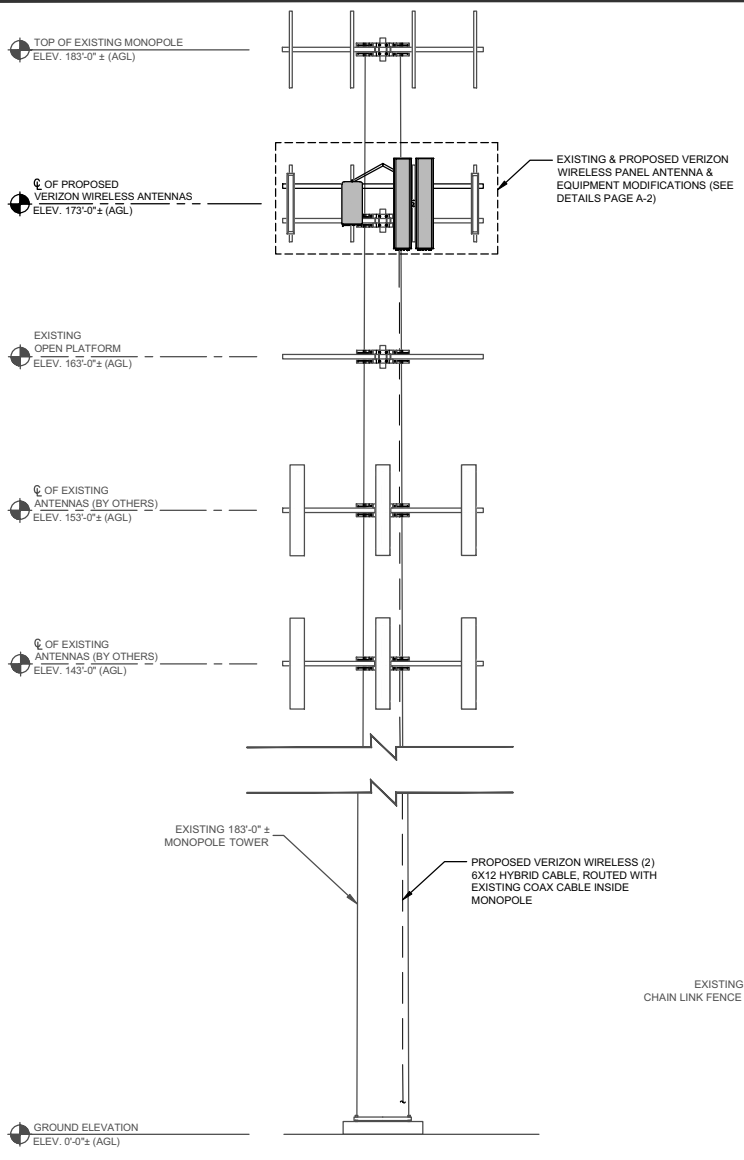
SITE NAME:
MONTVILLE 2 CT

SITE ADDRESS:
45 FARGO ROAD
MONTVILLE, CT 06385
NEW HAVEN

LOCATION CODE:
469183

SHEET TITLE:
TITLE SHEET

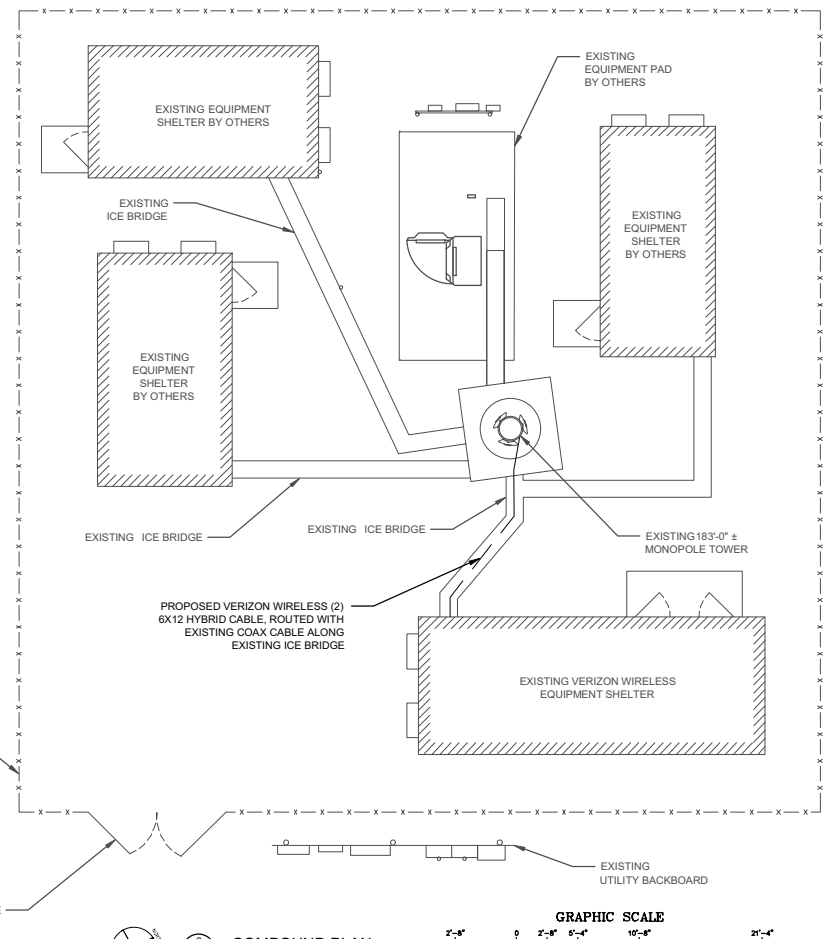
SHEET #: **T-1** REVISION: **2**



EXISTING 183'-0" ± MONOPOLE TOWER

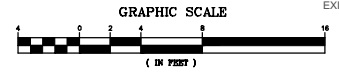
PROPOSED VERIZON WIRELESS (2) 6X12 HYBRID CABLE, ROUTED WITH EXISTING COAX CABLE INSIDE MONOPOLE

EXISTING & PROPOSED VERIZON WIRELESS PANEL ANTENNA & EQUIPMENT MODIFICATIONS (SEE DETAILS PAGE A-2)

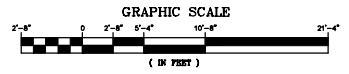


PROPOSED VERIZON WIRELESS (2) 6X12 HYBRID CABLE, ROUTED WITH EXISTING COAX CABLE ALONG EXISTING ICE BRIDGE

1
A-1 **TOWER ELEVATION**
SCALE: 1/4" = 1'-0" (22"X34")
1/8" = 1'-0" (11"X17")



2
A-1 **COMPOUND PLAN**
SCALE: 3/16" = 1'-0" (22"X34")
1/8" = 1'-0" (11"X17")



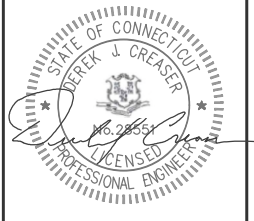
CELLO PARTNERSHIP d/b/a VERIZON WIRELESS

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

| REVISIONS | | |
|-----------|----------|-------------------------|
| NO. | DATE | DESCRIPTION |
| 2 | 06/07/21 | ISSUED FOR CONSTRUCTION |
| 1 | 05/26/21 | REVISED FOR REVIEW |
| 0 | 03/18/21 | ISSUED FOR REVIEW |

DESIGNED BY: KL APPROVED BY: DC



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT, UNLESS EXPLICITLY APPROVED BY THE ENGINEER IN WRITING. THE ENGINEER DISCLAIMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

SITE NAME:
MONTVILLE 2 CT

SITE ADDRESS:
45 FARGO ROAD
MONTVILLE, CT 06385
NEW HAVEN

LOCATION CODE:
469183

SHEET TITLE:
PARTIAL ROOF PLAN &
SOUTH ELEVATION

SHEET #: A-1 REVISION: 2

NOTES

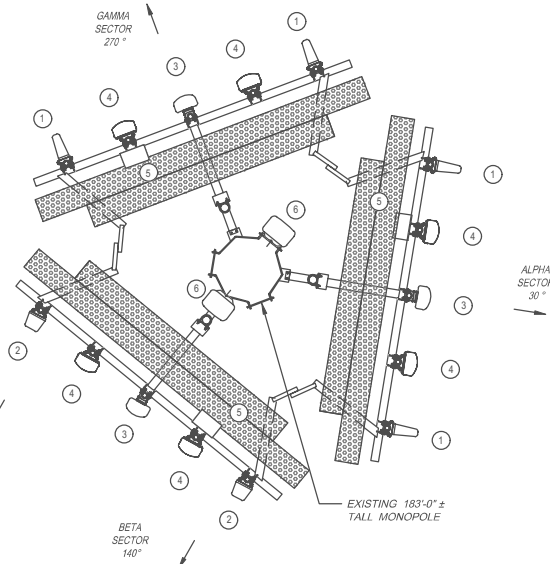
- IF SHOWN, ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND PROP. ANTENNA FACE.
- REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLING & DOWN-TILT INFORMATION.
- REFER TO THE ASSEMBLY DRAWING AND MOUNT ANALYSIS BY MASER CONSULTING FOR ALL REQUIRED EQUIPMENT MODIFICATION INFORMATION.

GENERAL ABBREVIATION LIST

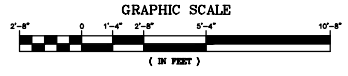
- ABP ABOVE BASE PLATE
- AGL ABOVE GRADE LEVEL
- AMSL ABOVE MEAN SEA LEVEL
- AWS ADVANCED WIRELESS SERVICE
- HDG HOT DIPPED GALVANIZED
- OVP OVER VOLTAGE PROTECTION
- RRH REMOTE RADIO HEAD
- V.I.F. VERIFY IN FIELD
- W.P. WORK POINT
- A.F.R. ABOVE FINISH ROOF

SCOPE OF WORK (ALL) SECTORS.

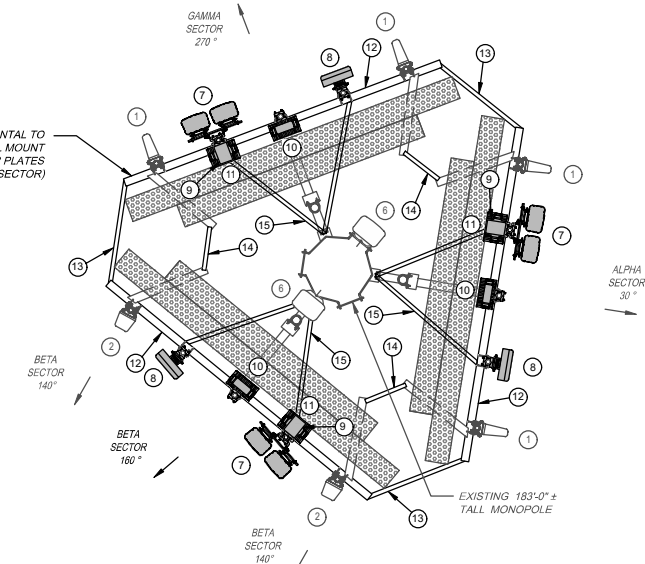
- | | | | |
|--|--|---|--|
| 1 EXIST. ANTENNA (TO REMAIN) MODEL: ANTEL LPA-80080-4CF | 5 EXIST. RRH (TO BE REPLACED) MODEL: NOKIA B4 UHIC RRH 2x60-4R | 9 NEW DIPLEXER MODEL: COMMSCOPE CBC78T-DS-43-2X NEW DUAL BAND RRH | 13 PROPOSED 60" LONG, P2.0 STD TIE-BACK REFER TO ASSEMBLY DRAWING AND MOUNT ANALYSIS BY MASER CONSULTING |
| 2 EXIST. ANTENNA (TO REMAIN) MODEL: CELLWAVE APL866513 | 6 EXIST. OVP BOX (TO REMAIN) MODEL: RAYCAP RRFDC-3315-PF-48 | 10 MODEL: SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A) | 14 PROPOSED 18" LONG CONNECTION ANGLE REFER TO ASSEMBLY DRAWING AND MOUNT ANALYSIS BY MASER CONSULTING |
| 3 EXIST. ANTENNA (TO BE REPLACED) MODEL: ANDREW LNX-6514DS-VTM | 7 NEW ANTENNA MOUNTED VIA NEW DUAL-MOUNT BRACKETS (COMMSCOPE BSAMINT-SBS-2-2) MODEL: JAHH-65B-R3B | 11 NEW DUAL BAND RRH MODEL: SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A) | 15 PROPOSED HANDRAIL REINFORCEMENT KIT, PART #PRK-SFS-L, REFER TO ASSEMBLY DRAWING AND MOUNT ANALYSIS BY MASER CONSULTING |
| 4 EXIST. ANTENNA (TO BE REPLACED) MODEL: ANDREW HBXX-6517DS-VTM | 8 NEW ANTENNA MODEL: SAMSUNG MT6407-77A MOUNTED ON EXIST. PIPE MAST | 12 PROPOSED 174" LONG, P2.5 STD REFER TO ASSEMBLY DRAWING AND MOUNT ANALYSIS BY MASER CONSULTING | |



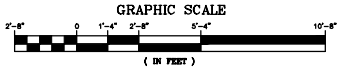
1 EXISTING ANTENNA PLAN
SCALE: 3/8" = 1'-0" (22"X34")
1/4" = 1'-0" (11"X17")



CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (TYP. FOR EACH SECTOR)



2 PROPOSED ANTENNA PLAN
SCALE: 3/8" = 1'-0" (22"X34")
1/4" = 1'-0" (11"X17")



3 DUAL ANTENNA BRACKET DETAIL
N.T.S.

CELCO PARTNERSHIP d/b/a VERIZON WIRELESS

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|----------|-------------------------|
| 2 | 06/07/21 | ISSUED FOR CONSTRUCTION |
| 1 | 05/26/21 | REVISED FOR REVIEW |
| 0 | 03/18/21 | ISSUED FOR REVIEW |

DESIGNED BY: KL APPROVED BY: DC



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT. UNLESS EXPLICITLY AGREED TO BY THE OWNER IN WRITING, THE ENGINEER ASSUMES ALL LIABILITY ASSOCIATED WITH THE DESIGN, IN WHOLE OR IN PART, OF THE CONTRACT WORK.

SITE NAME: MONTVILLE 2 CT

SITE ADDRESS: 45 FARGO ROAD
MONTVILLE, CT 06385
NEW HAVEN

LOCATION CODE: 469183

SHEET TITLE: ANTENNA CONFIGURATION & SCOPE OF WORK

SHEET #: A-2 REVISION: 2

| BILL OF MATERIALS | | | | |
|-------------------|-----------------------------|------|--------|---|
| ITEM | DESCRIPTION | QTY. | LENGTH | COMMENTS |
| ① | L-SUB 6 ANTENNA | 3 | - | (SAMSUNG MT6407-77A) MOUNTED TO EXISTING ANTENNA PIPE |
| ② | LTE 700/850/PCS/AWS ANTENNA | 6 | - | (JAHH-65B-R3B) MOUNTED TO EXIST. PIPE MAST VIA NEW DUAL MOUNT BRACKETS (BSAMNT-SBS-2-2) |
| ③ | 1x2 LI HYBRID CABLE | 3 | 15' | ROUTE FROM EXISTING UPPER OVP TO VZS01 ANTENNA |
| ④ | 1/2" JUMPER CABLE | 48 | 10' | ROUTE FROM NEW RRH TO ANTENNA |
| ⑤ | DIPLEXER | 3 | - | (COMMSCOPE CBC78T-DS-43) MOUNTED TO EXISTING FRAME |
| ⑥ | LTE 700/850 RRH | 3 | - | (SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A) MOUNTED TO EXISTING FRAME |
| ⑦ | LTE PCS/AWS RRH | 3 | - | (SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A) MOUNTED TO EXISTING FRAME |
| ⑧ | RRH CABLE(S) | 6 | 15' | PROPRIETARY POWER & FIBER CABLES |
| ⑨ | 6x12 LI HYBRID CABLE | 2 | 200' | ROUTE FROM LOWER OVP RACK TO UPPER OVP BOX |

NOTES:
 1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.
 2. INFORMATION IS BASED ON RFDS DATED 06/04/21.
 3. * REFER TO ASSEMBLY DRAWING AND MOUNTING ANALYSIS BY MASER CONSULTING (WHERE APPLICABLE)

| EQUIPMENT DATA | | | | | | | | |
|--------------------------|--|-----|---------|------------------|-------------|------------|------------|--------------|
| EQUIPMENT SPECIFICATIONS | | | | | | | | |
| SECTOR | ANTENNA MAKE/MODEL | QTY | AZIMUTH | EQUIPMENT STATUS | HEIGHT (IN) | WIDTH (IN) | DEPTH (IN) | WEIGHT (LBS) |
| ALPHA | LPA-80080-4CF | 2 | 30 | ETR | 47.2 | 5.5 | 13.2 | 12.0 |
| | SAMSUNG MT6407-77A | 1 | 30 | NEW | 35.1 | 16.1 | 5.5 | 87.1 |
| | LTE 700/850/PCS/AWS JAHH-65B-R3B | 1 | 30 | NEW | 72.0 | 13.8 | 6.2 | 64.4 |
| | LTE 700/850/PCS/AWS JAHH-65B-R3B | 1 | 30 | NEW | 72.0 | 13.8 | 6.2 | 64.4 |
| BETA | APL866513 | 2 | 140 | ETR | 48.0 | 9.2 | 8.0 | 15.7 |
| | SAMSUNG MT6407-77A | 1 | 160 | NEW | 35.1 | 16.1 | 5.5 | 87.1 |
| | LTE 700/850/PCS/AWS JAHH-65B-R3B | 1 | 160 | NEW | 72.0 | 13.8 | 6.2 | 64.4 |
| | LTE 700/850/PCS/AWS JAHH-65B-R3B | 1 | 160 | NEW | 72.0 | 13.8 | 6.2 | 64.4 |
| GAMMA | LPA-80080-4CF | 2 | 270 | ETR | 47.2 | 5.5 | 13.2 | 12.0 |
| | SAMSUNG MT6407-77A | 1 | 270 | NEW | 35.1 | 16.1 | 5.5 | 87.1 |
| | LTE 700/850/PCS/AWS JAHH-65B-R3B | 1 | 270 | NEW | 72.0 | 13.8 | 6.2 | 64.4 |
| | LTE 700/850/PCS/AWS JAHH-65B-R3B | 1 | 270 | NEW | 72.0 | 13.8 | 6.2 | 64.4 |
| ALL | APPURTENANCE MAKE/MODEL | | | | | | | |
| | SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A) | 3 | - | NEW | 14.9 | 14.9 | 10.04 | 97.5 |
| | SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A) | 3 | - | NEW | 14.9 | 14.9 | 8.14 | 82.0 |
| | SAMSUNG MT6407-77A | 3 | - | NEW | | | | |
| | RAYCAP OVP6 | 2 | - | ETR | | | | |
| | DIPLEXER | 3 | - | NEW | 6.4 | 6.93 | 4.8 | 10.4 |

NOTES:
 1. "ETR" DENOTES EXISTING TO REMAIN.
 2. WEIGHTS LISTED ARE WITHOUT MOUNTING BRACKET.
 3. INFORMATION IS BASED ON RFDS DATED 06/04/21.

CELCO PARTNERSHIP d/b/a VERIZON WIRELESS



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



750 W CENTER ST. SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

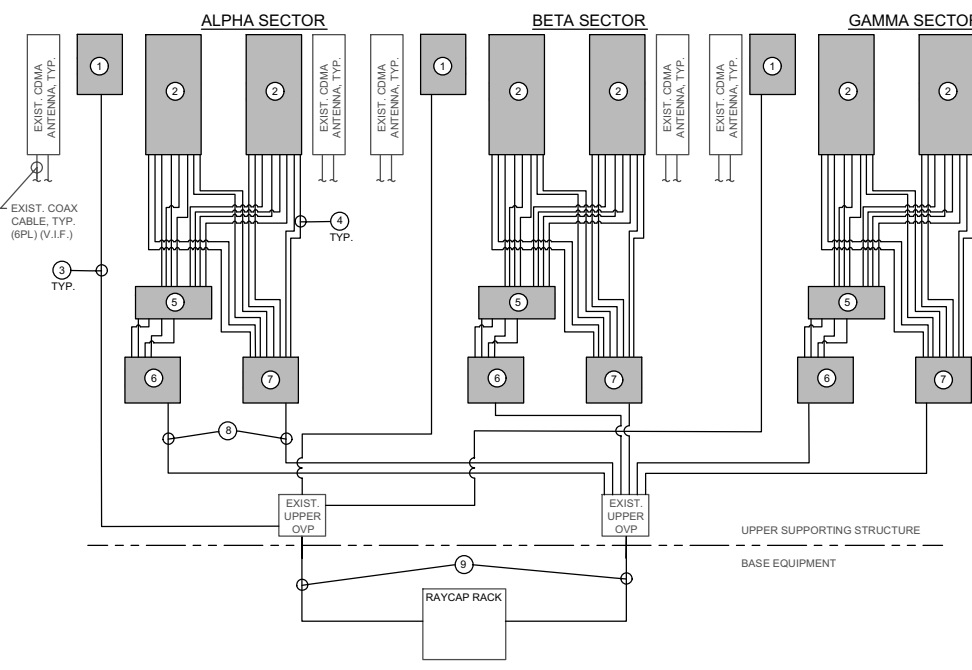
REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|----------|-------------------------|
| 2 | 06/07/21 | ISSUED FOR CONSTRUCTION |
| 1 | 05/26/21 | REVISED FOR REVIEW |
| 0 | 03/18/21 | ISSUED FOR REVIEW |

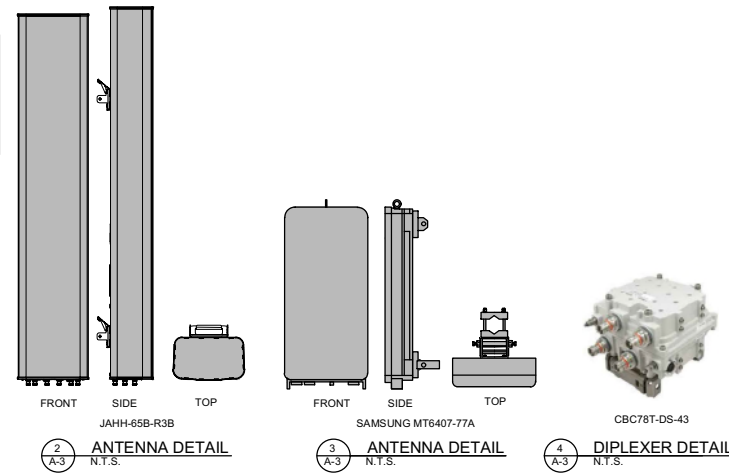
DESIGNED BY: KL APPROVED BY: DC



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THE ORIGINAL DESIGN OR TO BE RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF THE PROJECT WITHOUT THE ENGINEER'S SIGNATURE AND ALL LIABILITY ASSOCIATED WITH THE PROJECT, IN WHOLE OR IN PART, OF THE CONTRACTOR'S WORK.



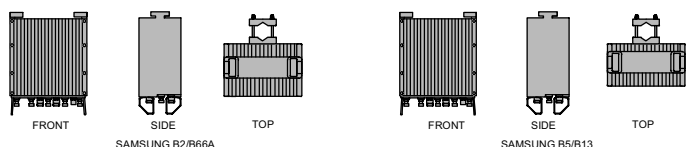
① PLUMBING DIAGRAM
N.T.S.



② ANTENNA DETAIL
N.T.S.

③ ANTENNA DETAIL
N.T.S.

④ DIPLEXER DETAIL
N.T.S.



⑤ RRH DETAIL
N.T.S.

⑥ RRH DETAIL
N.T.S.

SITE NAME:
MONTVILLE 2 CT

SITE ADDRESS:
45 FARGO ROAD
MONTVILLE, CT 06385
NEW HAVEN

LOCATION CODE:
469183

SHEET TITLE:
EQUIPMENT SPECIFICATIONS, BILL OF MATERIALS & PLUMBING DIAGRAM

SHEET #: A-3 REVISION: 2

STRUCTURAL NOTES:

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D.I.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL", 14TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
- WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
- ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
- NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
- SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):

GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

| SPECIAL INSPECTION CHECKLIST | |
|--|--|
| BEFORE CONSTRUCTION | |
| CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD) | REPORT ITEM |
| REQUIRED | MI CHECKLIST DRAWING |
| REQUIRED | ENGINEER OF RECORD APPROVED SHOP DRAWINGS ¹ |
| REQUIRED | MATERIAL SPECIFICATIONS REPORT ² |
| N/A | FABRICATOR NDE INSPECTION |
| REQUIRED | PACKING SLIPS ³ |
| ADDITIONAL TESTING AND INSPECTIONS: | |
| DURING CONSTRUCTION | |
| CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD) | REPORT ITEM |
| REQUIRED | STEEL INSPECTIONS |
| N/A | HIGH STRENGTH BOLT INSPECTIONS |
| N/A | HIGH WIND ZONE INSPECTIONS ⁴ |
| N/A | FOUNDATION INSPECTIONS |
| N/A | CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT |
| N/A | POST INSTALLED ANCHOR VERIFICATION ⁷ |
| N/A | GROUT VERIFICATION |
| N/A | CERTIFIED WELD INSPECTION |
| N/A | EARTHWORK: LIFT AND DENSITY |
| REQUIRED | ON SITE COLD GALVANIZING VERIFICATION |
| N/A | GUY WIRE TENSION REPORT |
| REQUIRED | GC AS-BUILT DOCUMENTS |
| ADDITIONAL TESTING AND INSPECTIONS: | |
| AFTER CONSTRUCTION | |
| CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD) | REPORT ITEM |
| REQUIRED | MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS ⁵ |
| N/A | POST INSTALLED ANCHOR PULL-OUT TESTING |
| REQUIRED | VZW PMI DOCUMENTS |
| REQUIRED | PHOTOGRAPHS |
| ADDITIONAL TESTING AND INSPECTIONS: | |

NOTES:

- REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL.
- PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
- PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
- HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
- ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 308.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
- AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

CELCO PARTNERSHIP d/b/a VERIZON WIRELESS



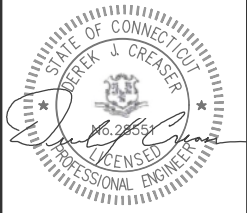
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

| REVISIONS | | |
|-----------|----------|-------------------------|
| NO. | DATE | DESCRIPTION |
| 2 | 06/07/21 | ISSUED FOR CONSTRUCTION |
| 1 | 05/26/21 | REVISED FOR REVIEW |
| 0 | 03/18/21 | ISSUED FOR REVIEW |

DESIGNED BY: KL APPROVED BY: DC



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THE DOCUMENTS UNDER EXECUTION SUBJECT TO THE SIGNATURE OF THE ENGINEER THROUGH ALL LIABILITY ASSOCIATED WITH THE DESIGN, CONSTRUCTION OR MODIFICATION OF THE CONTRACTS HEREIN.

SITE NAME:
MONTVILLE 2 CT

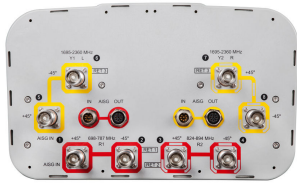
SITE ADDRESS:
45 FARGO ROAD
MONTVILLE, CT 06385
NEW HAVEN

LOCATION CODE:
469183

SHEET TITLE:
STRUCTURAL NOTES

SHEET #: SN-1 REVISION: 2

JAHH-65B-R3B



8-port sector antenna, 2x 698–787, 2x 824–894 and 4x 1695–2360 MHz, 65° HPBW, 3x RET and low bands have diplexers. Internal SBT's on first LB(Port 1) and first HB(Port 5).

- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One RET for 700MHz, one RET for 850MHz, and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO
- Internal filter on low band and interleaved dipole technology providing for attractive, low wind load mechanical package
- Separate RS-485 RET input/output for low and high band

General Specifications

| | |
|---|--|
| Antenna Type | Sector |
| Band | Multiband |
| Color | Light gray |
| Effective Projective Area (EPA), frontal | 0.28 m ² 3.014 ft ² |
| Effective Projective Area (EPA), lateral | 0.24 m ² 2.583 ft ² |
| Grounding Type | RF connector body grounded to reflector and mounting bracket |
| Performance Note | Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN |
| Radome Material | Fiberglass, UV resistant |
| Radiator Material | Aluminum Low loss circuit board |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 4 |
| RF Connector Quantity, low band | 4 |
| RF Connector Quantity, total | 8 |

Remote Electrical Tilt (RET) Information, General

| | |
|--------------------------------|-----------------------------------|
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 2 female 2 male |

Dimensions

| | |
|--------------|-------------------|
| Width | 350 mm 13.78 in |
|--------------|-------------------|

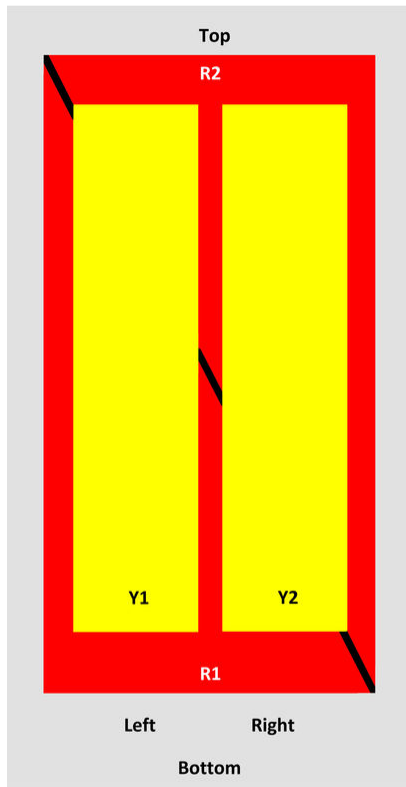
JAHH-65B-R3B

Length 1828 mm | 71.969 in

Depth 208 mm | 8.189 in

Array Layout

JAHH-65A-R3B JAHH-65B-R3B JAHH-65C-R3B



| Array | Freq (MHz) | Conns | RET (SRET) | AISG RET UID |
|-------|------------|-------|------------|----------------------|
| R1 | 698-798 | 1-2 | 1 | ANXXXXXXXXXXXXXXXXX1 |
| R2 | 824-894 | 3-4 | 2 | ANXXXXXXXXXXXXXXXXX2 |
| Y1 | 1695-2360 | 5-6 | 3 | ANXXXXXXXXXXXXXXXXX3 |
| Y2 | 1695-2360 | 7-8 | | |

View from the front of the antenna

(Sizes of colored boxes are not true depictions of array sizes)

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 787 MHz | 824 – 894 MHz

Polarization ±45°

Remote Electrical Tilt (RET) Information, Electrical

Protocol 3GPP/AISG 2.0 (Single RET)

Power Consumption, idle state, maximum 2 W

JAHH-65B-R3B

| | |
|---|------------------------------|
| Power Consumption, normal conditions, maximum | 13 W |
| Input Voltage | 10–30 Vdc |
| Internal Bias Tee | Port 1 Port 5 |
| Internal RET | High band (1) Low band (2) |

Electrical Specifications

| Frequency Band, MHz | 698–787 | 824–894 | 1695–1880 | 1850–1990 | 1920–2200 | 2300–2360 |
|---|------------|------------|------------|------------|------------|------------|
| Gain, dBi | 14.5 | 15.8 | 18 | 18.4 | 18.5 | 18.8 |
| Beamwidth, Horizontal, degrees | 67 | 65 | 63 | 63 | 65 | 68 |
| Beamwidth, Vertical, degrees | 12.4 | 10.5 | 5.7 | 5.2 | 4.9 | 4.4 |
| Beam Tilt, degrees | 2–14 | 2–14 | 0–10 | 0–10 | 0–10 | 0–10 |
| USLS (First Lobe), dB | 18 | 18 | 20 | 20 | 21 | 23 |
| Front-to-Back Ratio at 180°, dB | 32 | 34 | 31 | 35 | 36 | 38 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 30 | 30 | 30 | 30 | 30 | 30 |
| VSWR Return loss, dB | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 | -153 | -153 | -153 |
| Input Power per Port at 50° C, maximum, watts | 200 | 200 | 300 | 300 | 300 | 250 |

Electrical Specifications, BASTA

| Frequency Band, MHz | 698–787 | 824–894 | 1695–1880 | 1850–1990 | 1920–2200 | 2300–2360 |
|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Gain by all Beam Tilts, average, dBi | 14.3 | 14.9 | 17.6 | 18.1 | 18.2 | 18.5 |
| Gain by all Beam Tilts Tolerance, dB | ±0.3 | ±0.5 | ±0.6 | ±0.4 | ±0.5 | ±0.6 |
| Gain by Beam Tilt, average, dBi | 2° 14.3 8° 14.3 14° 14.3 | 2° 15.0 8° 14.9 14° 15.4 | 0° 17.2 5° 17.6 10° 17.6 | 0° 17.6 5° 18.2 10° 18.2 | 0° 17.7 5° 18.3 10° 18.3 | 0° 17.9 5° 18.7 10° 18.7 |
| Beamwidth, Horizontal Tolerance, degrees | ±1.2 | ±1.4 | ±4 | ±2.4 | ±2.9 | ±2.7 |
| Beamwidth, Vertical Tolerance, degrees | ±0.9 | ±0.5 | ±0.3 | ±0.2 | ±0.3 | ±0.1 |
| USLS, beampeak to 20° above beampeak, dB | 18 | 17 | 17 | 18 | 19 | 18 |
| Front-to-Back Total Power at 180° ± 30°, dB | 25 | 24 | 26 | 29 | 27 | 29 |
| CPR at Boresight, dB | 22 | 23 | 20 | 21 | 21 | 24 |

JAHH-65B-R3B

| | | | | | | |
|--------------------------|----|----|----|----|----|---|
| CPR at Sector, dB | 11 | 12 | 11 | 11 | 11 | 8 |
|--------------------------|----|----|----|----|----|---|

Mechanical Specifications

| | |
|--|---|
| Wind Loading at Velocity, frontal | 301.0 N @ 150 km/h 67.7 lbf @ 150 km/h |
| Wind Loading at Velocity, lateral | 254.0 N @ 150 km/h 57.1 lbf @ 150 km/h |
| Wind Loading at Velocity, maximum | 143.4 lbf @ 150 km/h 638.0 N @ 150 km/h |
| Wind Speed, maximum | 241 km/h 149.75 mph |

Packaging and Weights

| | |
|---|---------------------|
| Width, packed | 456 mm 17.953 in |
| Depth, packed | 357 mm 14.055 in |
| Length, packed | 1975 mm 77.756 in |
| Net Weight, without mounting kit | 29.2 kg 64.375 lb |
| Weight, gross | 42.5 kg 93.696 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CHINA-ROHS | Above maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| ROHS | Compliant/Exempted |



Included Products

BSAMNT-3 — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

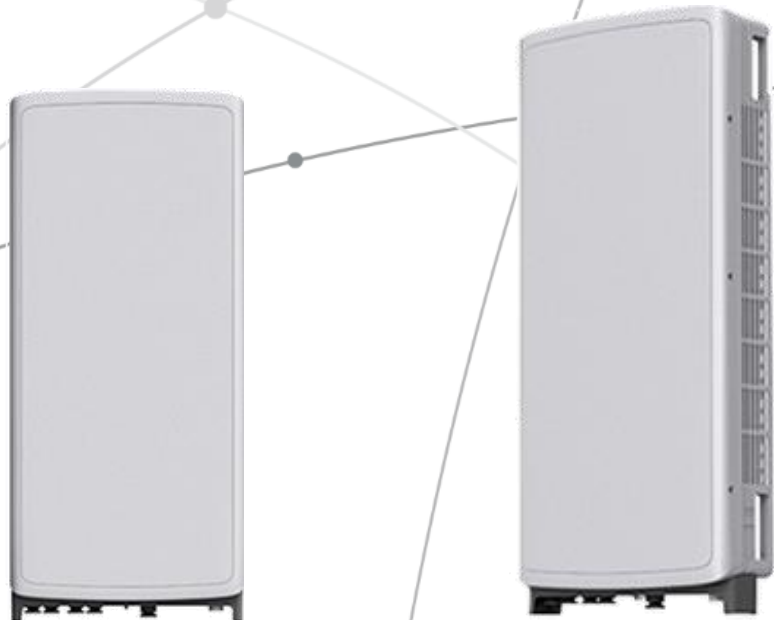
Performance Note Severe environmental conditions may degrade optimum performance

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



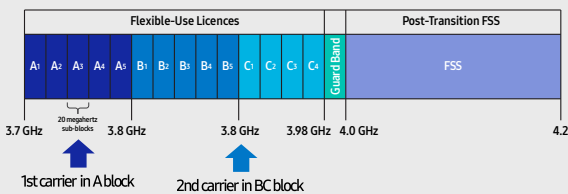
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

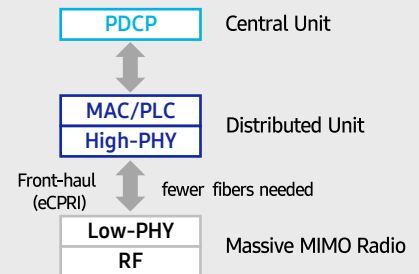
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

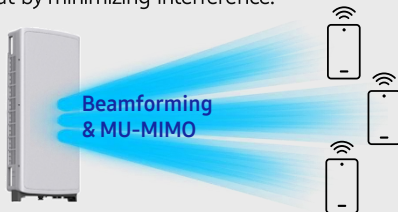


Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

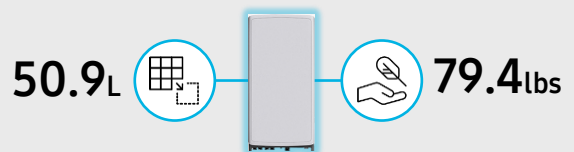
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. Despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

| Item | Specification |
|----------------|---|
| Tech | NR |
| Band | n77 |
| Frequency Band | 3700 - 3980 MHz |
| EIRP | 78.5dBm (53.0 dBm+25.5 dBi) |
| IBW/OBW | 280 MHz / 200 MHz |
| Installation | Pole/Wall |
| Size/Weight | 16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs |



SAMSUNG



About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

© 2021 Samsung Electronics Co., Ltd.

All rights reserved. Information in this leaflet is proprietary to Samsung Electronics Co., Ltd. and is subject to change without notice. No information contained here may be copied, translated, transcribed or duplicated by any form without the prior written consent of Samsung Electronics.

SAMSUNG

Dual-Band Radio Unit AWS/PCS (B66/B2)

RFV01U-D1A

Samsung's RFV01U-D1A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D1A RU targets dual-band support across Band 66 (AWS) and Band 2 (PCS), making it an ideal product for broad coverage footprints across multiple common mid-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation
- Built-in Broadcast Auxiliary Services (BAS) filter ensures compliant AWS operation without impacting footprint

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)

B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 255mm (36.8L)

Weight: 38.3kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

Cooling: Natural convection

SAMSUNG

Dual-Band Radio Unit 700/850MHz (B13/B5) RFV01U-D2A

Samsung's RFV01U-D2A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D2A RU targets dual-band support across Band 13 (700MHz) and Band 5 (850MHz), making it an ideal product for broad coverage footprints across multiple common low-end, long-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation

Key Technical Specifications

Duplex Type: FDD
Operating Frequencies:
B13: DL(746-756MHz)/UL(777-787MHz)
B5: DL(869-894MHz)/UL(824-849MHz)
Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 207mm (29.9L)
Weight: 31.9kg
Input Power: -48V DC
Operating Temp.: -40 - 55°(w/o solar load)
Cooling: Natural convection

ATTACHMENT 3

| | General | Power | Density | | | | | |
|---|------------|-------------|------------|------------------|-----------------|--------------------|--------------|---------------|
| Site Name: Montville 2 (Waterford) | | | | | | | | |
| Tower Height: Verizon @ 173ft | | | | | | | | |
| CARRIER | # OF CHAN. | WATTS ERP | HEIGHT | CALC. POWER DENS | FREQ. | MAX. PERMISS.E XP. | FRACTION MPE | Total |
| *T-Mobile | 4 | 1028 | 153 | 1900 | 0.0684 | 1.0000 | 0.68% | |
| *T-Mobile | 2 | 1028 | 153 | 1900 | 0.0342 | 1.0000 | 0.34% | |
| *T-Mobile | 2 | 592 | 153 | 600 | 0.0197 | 0.4000 | 0.49% | |
| *T-Mobile | 1 | 1578 | 153 | 600 | 0.0263 | 0.4000 | 0.66% | |
| *T-Mobile | 2 | 695 | 153 | 700 | 0.0231 | 0.4667 | 0.50% | |
| *T-Mobile | 2 | 2057 | 153 | 2100 | 0.0685 | 1.0000 | 0.68% | |
| *Clearwire | 2 | 153 | 163 | 2496 | 0.0045 | 1.0000 | 0.04% | |
| *Clearwire | 1 | 211 | 163 | 11 GHz | 0.0031 | 1.0000 | 0.03% | |
| *AT&T-LTE | 2 | 789 | 143 | 700 | 0.0302 | 0.4667 | 0.65% | |
| *AT&T-PCS-LTE | 4 | 949 | 143 | 1900 | 0.0727 | 1.0000 | 0.73% | |
| *AT&T-LTE | 4 | 720 | 143 | 700 | 0.0552 | 0.4667 | 1.18% | |
| *AT&T-UMTS | 2 | 414 | 143 | 850 | 0.0159 | 0.5667 | 0.28% | |
| *AT&T-PCS-UMTS | 2 | 656 | 143 | 1900 | 0.0251 | 1.0000 | 0.25% | |
| VZW 700 | 4 | 634 | 173 | 0.003 | 751 | 0.5007 | 0.61% | |
| VZW CDMA | 2 | 356 | 173 | 0.0009 | 877.26 | 0.5848 | 0.15% | |
| VZW Cellular | 4 | 725 | 173 | 0.0035 | 874 | 0.5827 | 0.60% | |
| VZW PCS | 4 | 1550 | 173 | 0.0075 | 1977.5 | 1.0000 | 0.75% | |
| VZW AWS | 4 | 1530 | 173 | 0.0074 | 2120 | 1.0000 | 0.74% | |
| VZW CBAND | 4 | 6531 | 173 | 0.0314 | 3730.005 | 1.0000 | 3.14% | |
| | | | | | | | | 12.51% |
| * Source: Siting Council | | | | | | | | |

ATTACHMENT 4



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 183 ft Nudd Corporation Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT01002-S

Customer Site Name: Waterford

Carrier Name: Verizon (App#: 157637, V1)

Carrier Site ID / Name: 469183 / Montville_2_CT

Site Location: 45 Fargo Road

Waterford, Connecticut

New London County

Latitude: 41.389339

Longitude: -72.171408

Exp.10/31/2021



Analysis Result:

Max Structural Usage: 95.6% [Pass]

Max Foundation Usage: 37.0% [Pass]

Additional Usage Caused by Mount Modification:

07/27/2021

Report Prepared By: Younus Alkarawi



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 183 ft Nudd Corporation Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT01002-S

Customer Site Name: Waterford

Carrier Name: Verizon (App#: 157637, V1)

Carrier Site ID / Name: 469183 / Montville_2_CT

Site Location: 45 Fargo Road

Waterford, Connecticut

New London County

Latitude: 41.389339

Longitude: -72.171408

Analysis Result:

Max Structural Usage: 95.6% [Pass]

Max Foundation Usage: 37.0% [Pass]

Additional Usage Caused by Mount Modification:

Report Prepared By: Younus Alkarawi

Introduction

The purpose of this report is to summarize the analysis results on the 183 ft Nudd Corporation Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

| | |
|------------------------------|---|
| Tower Drawings | A.Nudd Corp. Project #6637, dated May 7, 1999 |
| Foundation Drawing | A.Nudd Corp. Project #6637, dated May 7, 1999 |
| Geotechnical Report | Jaworski Geotech Inc Project #C98392G, dated September 18, 1998 |
| Modification Drawings | Semaan Engineering Solutions, Inc.analysis and Modifications Package, dated May FDH Engineering Inc. Project #10-08045E S2, dated November 4, 2010 |
| Mount Analysis | Verizon MA by Maser Consulting Connecticut Project #: 20777644A, dated |

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA- In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

| | |
|---|--|
| Wind Speed Used in the Analysis: | Ultimate Design Wind Speed $V_{ult} = 135.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 105.0$ mph (3-Sec. Gust) |
| Wind Speed with Ice: | 50 mph (3-Sec. Gust) with 3/4" radial ice concurrent |
| Operational Wind Speed: | 60 mph + 0" Radial ice |
| Standard/Codes: | TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code |
| Exposure Category: | |
| Structure Class: | |
| Topographic Category: | |
| Crest Height: | 0 ft |
| Seismic Parameters: | |

This structural analysis is based upon the tower being classified as a Structure Class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

| Items | Elevation (ft) | Qty. | Antenna Descriptions | Mount Type & Qty. | Transmission Lines | Owner |
|-------|----------------|------|--------------------------------------|--|-----------------------------|-----------|
| | | | | Empty Low profile platform | | |
| | | 4 | Antel - LPA-80080-4CF-EDIN-0 - Panel | 14.5' T-Arms | Outside Hybriflex | Verizon |
| | | | RFS - APL866513-42T0 - Panel | | | |
| | | | Commscope - HBXX-6517DS-VTM - Panel | | | |
| | | | Commscope - LNX-6514DS-VTM - Panel | | | |
| | | | Alcatel RRH2X60-AWS-RRH | | | |
| | | | Alcatel RRH2x60-PCS-RRH | | | |
| | | | Alcatel RRH2x60-700U-RRH | | | |
| | | | | | | |
| | | | Samsung DAP Radio Head | Low Profile Platform | (1) 3" Conduit | Clearwire |
| | | | Argus - LLPX310R - Panel | | | |
| | | | | Empty Low profile platform | | |
| | | | Ericsson Air 21 B2A/B4P - Panel | (3) Modified T-Arms W/ (1) Sitepro PRK-1245L (Platform reinforcement kit), (1) Sitepro PRK-SFS-L (V-brace kit) & (3) Sitepro SPTB (Tie back kit) | (3) 1.9" Fiber | T-Mobile |
| | | | Ericsson Air 21 B4A/B2P - Panel | | | |
| | | | RFS APXVAALL24-43-U-NA20 - Panel | | | |
| | | | Ericsson KRY 112 144/1-TMA | | | |
| | | | Ericsson 4449 B71 + B85 RRU | | | |
| | | | Quintel QS46512-2 - Panel | Low Profile Platform w/ SitePro 1 Handrail Kit (P/N HRK 14-U) and (6) 2-1/2" std. mast pipes. | Coax (1) 5/16" Fiber | |
| | | | Cci OPA-65R-LCUU-H4 - Panel | | | |
| | | | Cci TPA-65R-LCUUUU-H8 - Panel | | | |
| | | | Cci OPA-65R-LCUU-H8 - Panel | | | |
| | | | Cci DTMABP7819VG12A TMA | | | |
| | | | Kaelus DBC0061F1V51-2 - Diplexer | | | |
| | | | Ericsson RRUS 32 B2 | | | |
| | | | Powerwave 7770 - Panel | | | |
| | | | ADC ClearGain 850-1900 Dual Band - | | | |
| | | | Ericsson RRUS 11 | | | |
| | | | Css DBC-750 | | | |
| | | | Raycap DC6-48-60-18-8F | | | |

Proposed Carrier’s Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier’s final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

| Items | Elevation (ft) | Qty. | Antenna Descriptions | Mount Type & Qty. | Transmission Lines | Owner |
|-------|----------------|------|-----------------------------------|---|--------------------|---------|
| | | | Antel LPA-80080/4CF ____ - Panel | (3) Modified 14.5’ T-Arms W/ (3) Commscope | Hybrid | Verizon |
| | | | Rfs Celwave APL866513-42T0- Panel | | | |
| | | | Andrew JAHH-65B-R3B - Panel | | | |
| | | | Samsung MT6407-77A - Panel | | | |
| | | 3 | Commscope CBC78T-DS-43/E14F05P19 | | | |
| | | | Samsung B2/B66 RRH BR049 | | | |
| | | | Samsung B5/B13 RRH BR04C | | | |
| | | | RFS DB-T1-6Z-8AB-0Z-OVP Box | | | |

See the attached coax layout for the line placement considered in the analysis.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

| | Pole shafts | Anchor Bolts | Base Plate |
|-------------|-------------|--------------|-------------|
| Max. Usage: | | | |
| Pass/Fail | Pass | Pass | Pass |

Foundations

| | Moment (Kip-Ft) | Shear (Kips) | Axial (Kips) |
|--------------------|-----------------|--------------|--------------|
| Analysis Reactions | | | |

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.2478 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

This analysis was performed based on the information supplied to **Tower Engineering Solutions,** Verification of the information provided was not included in the Scope of Work for . The accuracy of the analysis is dependent on the accuracy of the information provided.

The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.

The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of . In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, should be notified in writing and the applicable minimum values provided by the client.

The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, should be notified immediately to evaluate the effect of the discrepancy on the analysis results.

The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.

If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Usage Diagram - Max Ratio 74.55% at 0.0ft

Structure: CT01002-S-SBA
Site Name: Waterford
Height: 183.00 (ft)
Base Elev: 0.000 (ft)

Code: EIA/TIA-222-G
Exposure: B
Gh: 1.1

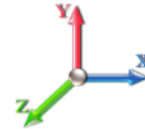
7/27/2021



Page: 1

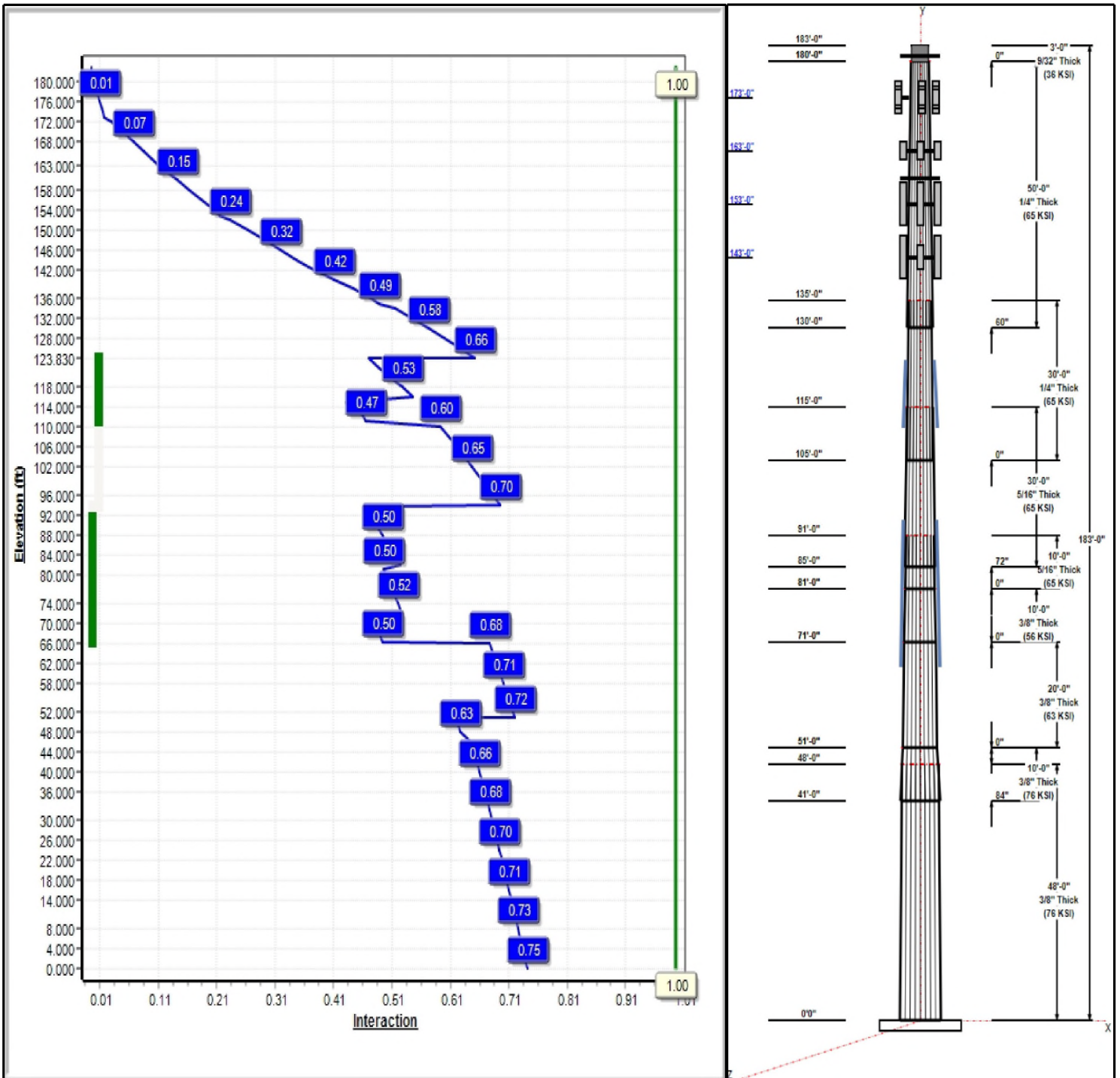
Dead Load Factor: 1.20
 Wind Load Factor: 1.60

Load Case : 1.2D + 1.6W 105 mph Wind



Iterations: 30

Copyright © 2021 by Tower Engineering Solutions, LLC. All rights reserved.



Structure: CT01002-S-SBA

Type: Custom
Site Name: Waterford
Height: 183.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.23542

7/27/2021

Page: 2



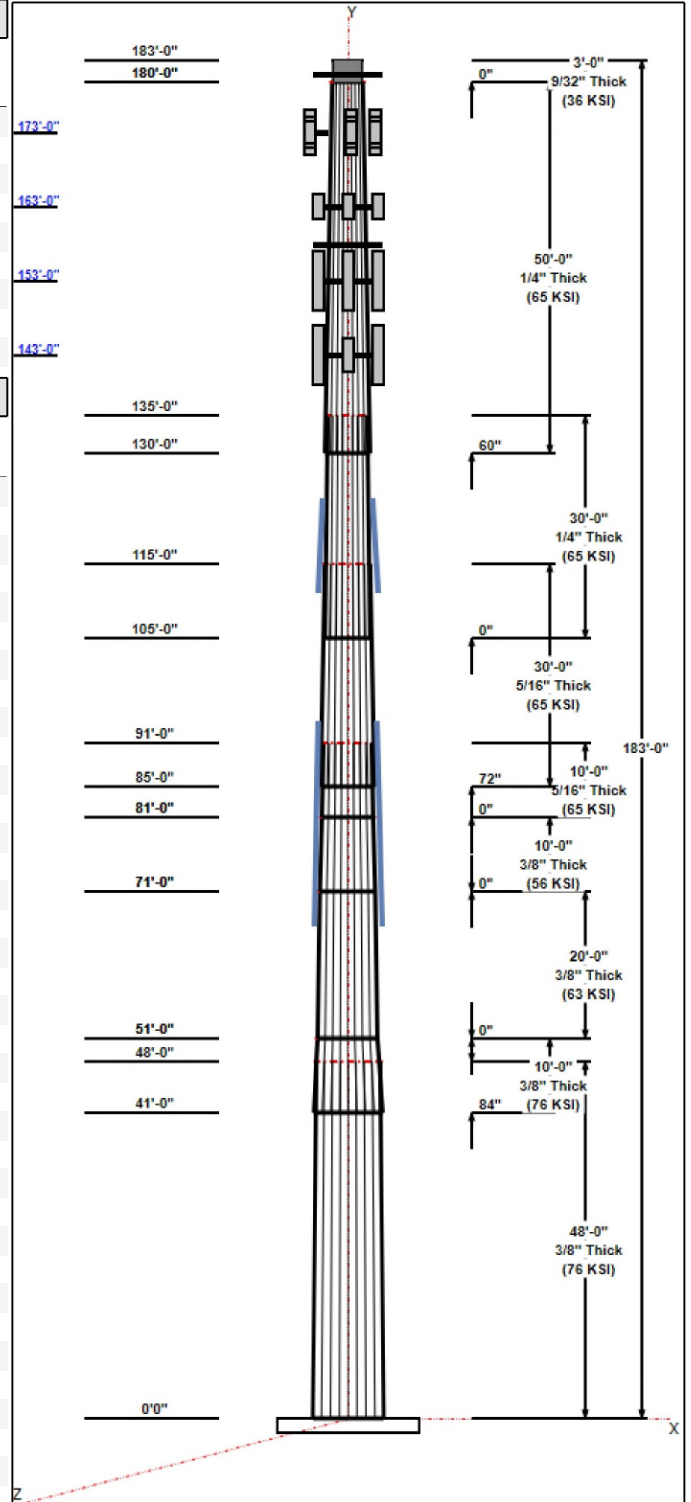
Shaft Properties

| Seq | Length (ft) | Top (in) | Bottom (in) | Thick (in) | Joint Type | Taper | Grade (ksi) |
|-----|-------------|----------|-------------|------------|------------|---------|-------------|
| 1 | 48.00 | 53.20 | 64.50 | 0.375 | | 0.23542 | 76 |
| 2 | 10.00 | 53.24 | 55.60 | 0.375 | Slip | 0.23542 | 76 |
| 3 | 20.00 | 48.53 | 53.24 | 0.375 | Butt | 0.23542 | 63 |
| 4 | 10.00 | 46.18 | 48.53 | 0.375 | Butt | 0.23542 | 56 |
| 5 | 10.00 | 43.83 | 46.18 | 0.313 | Butt | 0.23542 | 65 |
| 6 | 30.00 | 38.80 | 45.87 | 0.313 | Slip | 0.23542 | 65 |
| 7 | 30.00 | 34.09 | 38.80 | 0.250 | Butt | 0.23542 | 65 |
| 8 | 50.00 | 24.00 | 35.77 | 0.250 | Slip | 0.23542 | 65 |
| 9 | 3.00 | 24.00 | 24.00 | 0.281 | Butt | 0.00000 | 36 |

Discrete Appurtenances

| Attach Elev (ft) | Force Elev (ft) | Qty | Description | Carrier |
|------------------|-----------------|-----|-------------------------|-----------|
| 181.00 | 181.00 | 1 | Low Profile | - |
| 173.00 | 173.00 | 1 | (3) T-Arms | Verizon |
| 173.00 | 173.00 | 4 | LPA-80080-4CF-EDIN-0 | Verizon |
| 173.00 | 173.00 | 2 | APL866513-42T0 | Verizon |
| 173.00 | 173.00 | 2 | DB-T1-6Z-8AB-OZ | Verizon |
| 173.00 | 173.00 | 6 | Andrew JAHH-65B-R3B | Verizon |
| 173.00 | 173.00 | 3 | Samsung MT6407-77A | Verizon |
| 173.00 | 173.00 | 3 | BSAMNT-SBS-1-2 | Verizon |
| 173.00 | 173.00 | 3 | CBC78T-DS-43/E14F05P1 | Verizon |
| 173.00 | 173.00 | 3 | Samsung B2/B66 RRH | Verizon |
| 173.00 | 173.00 | 3 | Samsung B5/B13 RRH | Verizon |
| 163.00 | 163.00 | 3 | LLPX310R | Clearwire |
| 163.00 | 163.00 | 1 | Low Profile | Clearwire |
| 163.00 | 163.00 | 3 | DAP Head | Clearwire |
| 158.00 | 158.00 | 1 | Low Profile | - |
| 153.00 | 153.00 | 3 | RFS | T-Mobile |
| 153.00 | 153.00 | 1 | PRK-1245 (kicker kit) | T-Mobile |
| 153.00 | 153.00 | 1 | SPTB(Tie back Kit) | T-Mobile |
| 153.00 | 153.00 | 1 | V-brace kit | T-Mobile |
| 153.00 | 153.00 | 3 | Ericsson 4449 B71 + B85 | T-Mobile |
| 153.00 | 153.00 | 1 | Low Profile Platform | T-Mobile |
| 153.00 | 153.00 | 3 | Ericsson Air 21 B2A/B4P | T-Mobile |
| 153.00 | 153.00 | 3 | Ericsson Air 21 B4A/B2P | T-Mobile |
| 153.00 | 153.00 | 3 | KRY 112 144/1 | T-Mobile |
| 143.00 | 143.00 | 3 | Powerwave 7770.00 | AT&T |
| 143.00 | 143.00 | 1 | Low Profile | AT&T |
| 143.00 | 143.00 | 3 | 850-1900 Dual Band | AT&T |
| 143.00 | 143.00 | 3 | RRUS 11 | AT&T |
| 143.00 | 143.00 | 3 | DBC-750 | AT&T |
| 143.00 | 143.00 | 1 | DC6-48-60-18-8F | AT&T |
| 143.00 | 143.00 | 1 | QS46512-2 | AT&T |
| 143.00 | 143.00 | 1 | OPA-65R-LCUU-H4 | AT&T |
| 143.00 | 143.00 | 2 | TPA-65R-LCUUUU-H8 | AT&T |
| 143.00 | 143.00 | 2 | OPA-65R-LCUU-H8 | AT&T |
| 143.00 | 143.00 | 3 | DTMABP7819VG12A | AT&T |
| 143.00 | 143.00 | 3 | DBC0061F1V51-2 | AT&T |
| 143.00 | 143.00 | 3 | RRUS 32 B2 | AT&T |
| 143.00 | 143.00 | 1 | HRK14 | AT&T |

Linear Appurtenances



Structure: CT01002-S-SBA

Type: Custom
Site Name: Waterford
Height: 183.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.00000

7/27/2021

Page: 3



| Elev From (ft) | Elev To (ft) | Placement | Description | Carrier |
|----------------|--------------|-----------|---------------------|-----------|
| 0.00 | 183.00 | Outside | Safety Cable | |
| 0.00 | 183.00 | Outside | Step bolts (ladder) | |
| 0.00 | 173.00 | Inside | 1 5/8" Coax | Verizon |
| 0.00 | 173.00 | Outside | 1 5/8" Coax | Verizon |
| 0.00 | 173.00 | Inside | 1 5/8" Hybrid | Verizon |
| 0.00 | 163.00 | Inside | 3" Conduit | Clearwire |
| 0.00 | 163.00 | Inside | 5/16" Coax | Clearwire |
| 0.00 | 163.00 | Inside | 9/16" Coax | Clearwire |
| 0.00 | 153.00 | Inside | 1 5/8" Coax | T-Mobile |
| 0.00 | 153.00 | Inside | 1.9" Fiber | T-Mobile |
| 0.00 | 143.00 | Inside | 1 5/8" Coax | AT&T |
| 0.00 | 143.00 | Inside | 3/4" DC | AT&T |
| 0.00 | 143.00 | Inside | 5/16" Fiber | AT&T |
| 110.00 | 125.00 | Outside | C6X10.5 Reinforcing | |
| 65.00 | 95.00 | Outside | C6X10.5 Reinforcing | |

Anchor Bolts

| Qty | Specifications | Grade (ksi) | Arrangement |
|-----|----------------|-------------|-------------|
| 24 | 2.00" A687 | 105.0 | Radial |

Base Plate

| Thickness (in) | Specifications (in) | Grade (ksi) | Geometry |
|----------------|---------------------|-------------|----------|
| 1.5000 | 64.5 | 60.0 | Round |

Reactions

| Load Case | Moment (FT-Kips) | Shear (Kips) | Axial (Kips) |
|----------------------------------|------------------|--------------|--------------|
| 1.2D + 1.6W 105 mph Wind | 5031.3 | 38.6 | 62.6 |
| 0.9D + 1.6W 105 mph Wind | 4964.1 | 38.6 | 47.0 |
| 1.2D + 1.0Di + 1.0Wi 50 mph Wind | 1251.6 | 9.5 | 98.4 |
| 1.2D + 1.0E | 269.2 | 2.0 | 62.7 |
| 0.9D + 1.0E | 265.4 | 2.0 | 47.0 |
| 1.0D + 1.0W 60 mph Wind | 1019.0 | 7.9 | 52.2 |

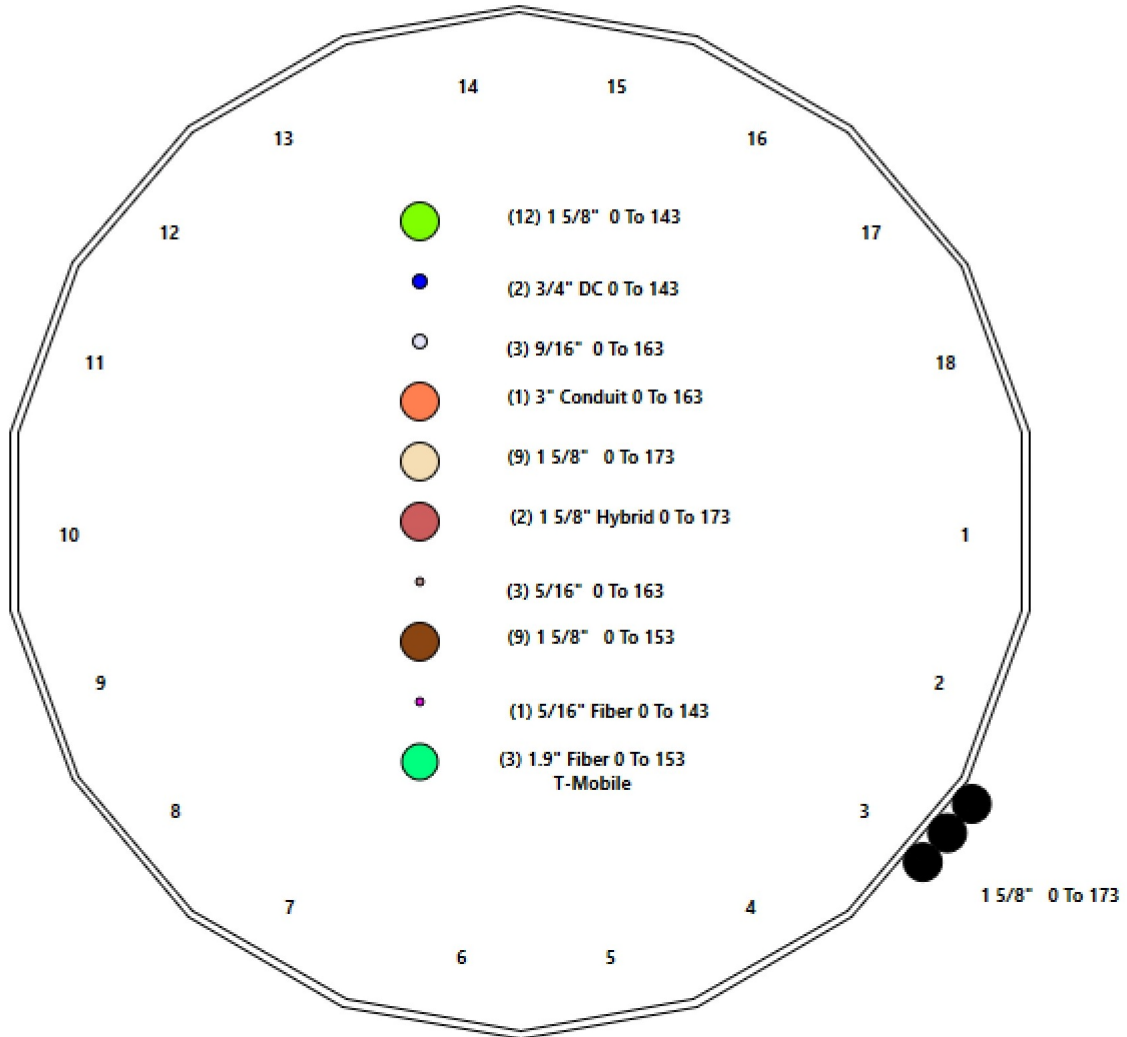
Structure: CT01002-S-SBA - Coax Line Placement

Type: Monopole
Site Name: Waterford
Height: 183.00 (ft)

7/27/2021



Page: 4



Shaft Properties

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 5

| Sec. No. | Shape | Length (ft) | Thick (in) | Fy (ksi) | Joint Type | Overlap (in) | Weight (lb) |
|----------------------------|-------|-------------|------------|----------|------------|--------------|---------------|
| 1 | 18 | 48.000 | 0.3750 | 76 | | 0.00 | 11,368 |
| 2 | 18 | 10.000 | 0.3750 | 76 | Slip | 84.00 | 2,189 |
| 3 | 18 | 20.000 | 0.3750 | 63 | Flange | 0.00 | 4,092 |
| 4 | 18 | 10.000 | 0.3750 | 56 | Flange | 0.00 | 1,903 |
| 5 | 18 | 10.000 | 0.3125 | 65 | Flange | 0.00 | 1,508 |
| 6 | 18 | 30.000 | 0.3125 | 65 | Slip | 72.00 | 4,255 |
| 7 | 18 | 30.000 | 0.2500 | 65 | Flange | 0.00 | 2,837 |
| 8 | 18 | 50.000 | 0.2500 | 65 | Slip | 60.00 | 4,001 |
| 9 | R | 3.000 | 0.2810 | 36 | Flange | 0.00 | 214 |
| Total Shaft Weight: | | | | | | | 32,365 |

Bottom

Top

| Sec. No. | Dia (in) | Elev (ft) | Area (sqin) | Ix (in^4) | W/t Ratio | D/t Ratio | Dia (in) | Elev (ft) | Area (sqin) | Ix (in^4) | W/t Ratio | D/t Ratio | Taper |
|----------|----------|-----------|-------------|-----------|-----------|-----------|----------|-----------|-------------|-----------|-----------|-----------|----------|
| 1 | 64.50 | 0.00 | 76.32 | 39651.33 | 28.92 | 172.00 | 53.20 | 48.00 | 62.87 | 22166.3 | 23.60 | 141.8 | 0.235417 |
| 2 | 55.60 | 41.00 | 65.73 | 25324.19 | 24.73 | 148.26 | 53.24 | 51.00 | 62.92 | 22221.5 | 23.62 | 141.9 | 0.235417 |
| 3 | 53.24 | 51.00 | 62.93 | 22221.78 | 23.62 | 141.98 | 48.53 | 71.00 | 57.32 | 16797.8 | 21.41 | 129.4 | 0.235417 |
| 4 | 48.53 | 71.00 | 57.32 | 16797.13 | 21.41 | 129.43 | 46.18 | 81.00 | 54.52 | 14452.3 | 20.30 | 123.1 | 0.235417 |
| 5 | 46.18 | 81.00 | 45.49 | 12093.11 | 24.65 | 147.78 | 43.83 | 91.00 | 43.16 | 10325.0 | 23.32 | 140.2 | 0.235417 |
| 6 | 45.87 | 85.00 | 45.18 | 11844.89 | 24.47 | 146.77 | 38.80 | 115.00 | 38.18 | 7145.58 | 20.48 | 124.1 | 0.235417 |
| 7 | 38.80 | 105.0 | 30.59 | 5744.14 | 25.96 | 155.21 | 34.09 | 135.00 | 24.99 | 3130.27 | 20.98 | 136.3 | 0.235417 |
| 8 | 35.77 | 130.0 | 28.18 | 4493.04 | 23.82 | 143.08 | 24.00 | 180.00 | 18.85 | 1343.02 | 15.52 | 96.00 | 0.235417 |
| 9 | 24.00 | 180.0 | 20.94 | 1473.63 | 0.00 | 85.41 | 24.00 | 183.00 | 20.94 | 1473.63 | 0.00 | 85.41 | 0.000000 |

Additional Steel

| Elev From (ft) | Elev To (ft) | Qty | Description | Fy (ksi) | Fu (ksi) | Offset (in) | Intermediate Connectors | | Termination Connectors | | | |
|----------------|--------------|-----|------------------------|----------|----------|-------------|-------------------------|--------------|------------------------|--------------|-----------|-----------|
| | | | | | | | Description | Spacing (in) | Description | Spacing (in) | Lower Qty | Upper Qty |
| 66.17 | 93.83 | 6 | PLT C6x10.5(1.5" Hole) | 65 | 80 | 0.85 | 5/8" Hollo Bolt | 0.00 | 5/8" Hollo Bolt | 24.00 | | |
| 111.1 | 123.8 | 3 | PLT C6x10.5(1.5" Hole) | 65 | 80 | 0.85 | 5/8" Hollo Bolt | 0.00 | 5/8" Hollo Bolt | 24.00 | | |

Load Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 6

Discrete Appurtenances

| No. | Elev (ft) | Description | Qty | No Ice | | | Ice | | | Hor. Ecc. (ft) | Vert Ecc (ft) |
|----------------|-----------|-----------------------------|-----------|------------------|-----------|-------------|------------------|-----------|-------------|----------------|---------------|
| | | | | Weight (lb) | CaAa (sf) | CaAa Factor | Weight (lb) | CaAa (sf) | CaAa Factor | | |
| 1 | 181.00 | Low Profile Platform-Round | 1 | 1500.00 | 22.00 | 1.00 | 2833.73 | 39.996 | 1.00 | 0.00 | 0.00 |
| 2 | 173.00 | (3) T-Arms | 1 | 1500.00 | 30.00 | 1.00 | 2827.72 | 54.430 | 1.00 | 0.00 | 0.00 |
| 3 | 173.00 | LPA-80080-4CF-EDIN-0 | 4 | 12.00 | 2.61 | 1.70 | 129.28 | 3.521 | 1.70 | 0.00 | 0.00 |
| 4 | 173.00 | APL866513-42T0 | 2 | 15.70 | 4.05 | 0.93 | 126.47 | 5.940 | 0.93 | 0.00 | 0.00 |
| 5 | 173.00 | DB-T1-6Z-8AB-OZ | 2 | 44.00 | 4.80 | 0.75 | 190.17 | 5.687 | 0.75 | 0.00 | 0.00 |
| 6 | 173.00 | Andrew JAHH-65B-R3B | 6 | 63.30 | 9.11 | 0.83 | 297.66 | 10.477 | 0.83 | 0.00 | 0.00 |
| 7 | 173.00 | Samsung MT6407-77A | 3 | 79.40 | 4.69 | 0.70 | 201.03 | 5.651 | 0.70 | 0.00 | 0.00 |
| 8 | 173.00 | BSAMNT-SBS-1-2 | 3 | 25.35 | 0.00 | 1.00 | 43.30 | 0.000 | 1.00 | 0.00 | 0.00 |
| 9 | 173.00 | CBC78T-DS-43/E14F05P19 | 3 | 10.40 | 0.37 | 0.67 | 31.58 | 0.658 | 0.67 | 0.00 | 0.00 |
| 10 | 173.00 | Samsung B2/B66 RRH BR049 | 3 | 84.40 | 1.87 | 0.67 | 162.33 | 2.452 | 0.67 | 0.00 | 0.00 |
| 11 | 173.00 | Samsung B5/B13 RRH BR04C | 3 | 70.30 | 1.87 | 0.67 | 140.92 | 2.452 | 0.67 | 0.00 | 0.00 |
| 12 | 163.00 | LLPX310R | 3 | 28.60 | 4.30 | 0.69 | 119.66 | 5.974 | 0.69 | 0.00 | 0.00 |
| 13 | 163.00 | Low Profile Platform-Round | 1 | 1500.00 | 22.00 | 1.00 | 2819.84 | 39.809 | 1.00 | 0.00 | 0.00 |
| 14 | 163.00 | DAP Head | 3 | 42.00 | 1.88 | 0.67 | 89.27 | 3.037 | 0.67 | 0.00 | 0.00 |
| 15 | 158.00 | Low Profile Platform-Round | 1 | 1500.00 | 22.00 | 1.00 | 2815.73 | 39.754 | 1.00 | 0.00 | 0.00 |
| 16 | 153.00 | RFS APXVAALL24-43-U-NA20 | 3 | 122.80 | 20.24 | 0.70 | 541.67 | 22.144 | 0.70 | 0.00 | 0.00 |
| 17 | 153.00 | PRK-1245 (kicker kit) | 1 | 464.91 | 9.50 | 1.00 | 790.10 | 19.467 | 1.00 | 0.00 | 0.00 |
| 18 | 153.00 | SPTB(Tie back Kit) | 1 | 140.00 | 3.70 | 1.00 | 316.27 | 7.582 | 1.00 | 0.00 | 0.00 |
| 19 | 153.00 | V-brace kit | 1 | 230.00 | 2.70 | 1.00 | 551.76 | 5.533 | 1.00 | 0.00 | 0.00 |
| 20 | 153.00 | Ericsson 4449 B71 + B85 RRU | 3 | 73.20 | 1.97 | 0.67 | 131.06 | 2.541 | 0.67 | 0.00 | 0.00 |
| 21 | 153.00 | Low Profile Platform | 1 | 1200.00 | 25.00 | 1.00 | 2249.20 | 45.984 | 1.00 | 0.00 | 0.00 |
| 22 | 153.00 | Ericsson Air 21 B2A/B4P | 3 | 91.50 | 6.09 | 0.86 | 260.79 | 7.190 | 0.86 | 0.00 | 0.00 |
| 23 | 153.00 | Ericsson Air 21 B4A/B2P | 3 | 90.40 | 6.09 | 0.86 | 259.69 | 7.190 | 0.86 | 0.00 | 0.00 |
| 24 | 153.00 | KRY 112 144/1 | 3 | 11.00 | 0.41 | 0.70 | 21.80 | 0.886 | 0.70 | 0.00 | 0.00 |
| 25 | 143.00 | Powerwave 7770.00 | 3 | 35.00 | 5.50 | 0.73 | 169.38 | 6.560 | 0.73 | 0.00 | 0.00 |
| 26 | 143.00 | Low Profile Platform-Round | 1 | 1500.00 | 22.00 | 1.00 | 2802.67 | 39.577 | 1.00 | 0.00 | 0.00 |
| 27 | 143.00 | 850-1900 Dual Band | 3 | 5.50 | 0.52 | 0.66 | 17.09 | 1.048 | 0.66 | 0.00 | 0.00 |
| 28 | 143.00 | RRUS 11 | 3 | 50.70 | 2.52 | 0.67 | 139.37 | 3.168 | 0.67 | 0.00 | 0.00 |
| 29 | 143.00 | DBC-750 | 3 | 4.80 | 0.51 | 0.50 | 14.42 | 1.037 | 0.50 | 0.00 | 0.00 |
| 30 | 143.00 | DC6-48-60-18-8F | 1 | 31.80 | 1.47 | 1.00 | 93.33 | 2.167 | 1.00 | 0.00 | 0.00 |
| 31 | 143.00 | QS46512-2 | 1 | 27.30 | 5.55 | 1.00 | 195.54 | 14.338 | 1.00 | 0.00 | 0.00 |
| 32 | 143.00 | OPA-65R-LCUU-H4 | 1 | 57.00 | 5.94 | 1.00 | 214.71 | 6.967 | 1.00 | 0.00 | 0.00 |
| 33 | 143.00 | TPA-65R-LCUUUU-H8 | 2 | 75.00 | 13.30 | 0.83 | 385.41 | 14.938 | 0.83 | 0.00 | 0.00 |
| 34 | 143.00 | OPA-65R-LCUU-H8 | 2 | 95.00 | 12.75 | 0.79 | 375.65 | 14.349 | 0.79 | 0.00 | 0.00 |
| 35 | 143.00 | DTMABP7819VG12A | 3 | 19.20 | 1.14 | 0.67 | 44.60 | 1.906 | 0.67 | 0.00 | 0.00 |
| 36 | 143.00 | DBC0061F1V51-2 | 3 | 25.40 | 0.43 | 0.67 | 39.87 | 0.714 | 0.67 | 0.00 | 0.00 |
| 37 | 143.00 | RRUS 32 B2 | 3 | 53.00 | 2.74 | 0.67 | 140.49 | 3.465 | 0.67 | 0.00 | 0.00 |
| 38 | 143.00 | HRK14 | 1 | 352.36 | 10.13 | 1.00 | 768.53 | 19.983 | 1.00 | 0.00 | 0.00 |
| Totals: | | | 88 | 13,659.42 | | | 31,442.51 | | | | |

Linear Appurtenances

| Bottom Elev. (ft) | Top Elev. (ft) | Description | Exposed Width | Exposed |
|-------------------|----------------|-------------------------|---------------|---------|
| 0.00 | 183.00 | (1) Safety Cable | 0.00 | Outside |
| 0.00 | 183.00 | (1) Step bolts (ladder) | 0.00 | Outside |
| 0.00 | 173.00 | (9) 1 5/8" Coax | 0.00 | Inside |

Discrete Appurtenances

| No. | Elev (ft) | Description | Qty | No Ice | | Ice | | | Hor. Ecc. (ft) | Vert Ecc (ft) |
|-------|--------------|-------------------------------|-----|----------------|--------------|----------------|----------------|--------------|----------------------|---------------------|
| | | | | Weight (lb) | CaAa (sf) | CaAa Factor | Weight (lb) | CaAa (sf) | | |
| 0.00 | 173.00 | (3) 1 5/8" Coax | | 1.98 | | | | | | Outside |
| 0.00 | 173.00 | (2) 1 5/8" Hybrid | | 0.00 | | | | | | Inside |
| 0.00 | 163.00 | (1) 3" Conduit | | 0.00 | | | | | | Inside |
| 0.00 | 163.00 | (3) 5/16" Coax | | 0.00 | | | | | | Inside |
| 0.00 | 163.00 | (3) 9/16" Coax | | 0.00 | | | | | | Inside |
| 0.00 | 153.00 | (9) 1 5/8" Coax | | 0.00 | | | | | | Inside |
| 0.00 | 153.00 | (3) 1.9" Fiber | | 0.00 | | | | | | Inside |
| 0.00 | 143.00 | (12) 1 5/8" Coax | | 0.00 | | | | | | Inside |
| 0.00 | 143.00 | (2) 3/4" DC | | 0.00 | | | | | | Inside |
| 0.00 | 143.00 | (1) 5/16" Fiber | | 0.00 | | | | | | Inside |
| 110.0 | 125.00 | (3) C6X10.5 Reinforcing plate | | 0.00 | | | | | | Outside |
| 65.00 | 95.00 | (6) C6X10.5 Reinforcing plate | | 0.00 | | | | | | Outside |

Shaft Section Properties

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 8

Increment Length: 2 (ft)

| Elev (ft) | Description | Thick (in) | Flat Dia (in) | Area (in^2) | Ix (in^4) | W/t Ratio | D/t Ratio | Fy (ksi) | Fb (ksi) | Weight (lb) | Additional Reinforcing | | | |
|-----------|-----------------|------------|---------------|-------------|-----------|-----------|-----------|----------|----------|-------------|------------------------|------------|------------|-------------|
| | | | | | | | | | | | Area (in^2) | Ixp (in^4) | Iyp (in^4) | Weight (lb) |
| 0.00 | | 0.3750 | 64.500 | 76.322 | 39651.3 | 28.92 | 172.00 | 76 | 76 | 0.0 | | | | |
| 2.00 | | 0.3750 | 64.029 | 75.762 | 38784.3 | 28.70 | 170.74 | 76 | 76 | 517.5 | | | | |
| 4.00 | | 0.3750 | 63.558 | 75.201 | 37930.0 | 28.47 | 169.49 | 76 | 76 | 513.7 | | | | |
| 6.00 | | 0.3750 | 63.087 | 74.641 | 37088.4 | 28.25 | 168.23 | 76 | 77 | 509.9 | | | | |
| 8.00 | | 0.3750 | 62.617 | 74.080 | 36259.3 | 28.03 | 166.98 | 76 | 77 | 506.1 | | | | |
| 10.00 | | 0.3750 | 62.146 | 73.520 | 35442.6 | 27.81 | 165.72 | 76 | 77 | 502.3 | | | | |
| 12.00 | | 0.3750 | 61.675 | 72.960 | 34638.3 | 27.59 | 164.47 | 76 | 78 | 498.4 | | | | |
| 14.00 | | 0.3750 | 61.204 | 72.399 | 33846.3 | 27.37 | 163.21 | 76 | 78 | 494.6 | | | | |
| 16.00 | | 0.3750 | 60.733 | 71.839 | 33066.4 | 27.15 | 161.96 | 76 | 78 | 490.8 | | | | |
| 18.00 | | 0.3750 | 60.262 | 71.279 | 32298.6 | 26.93 | 160.70 | 76 | 79 | 487.0 | | | | |
| 20.00 | | 0.3750 | 59.792 | 70.718 | 31542.8 | 26.70 | 159.44 | 76 | 79 | 483.2 | | | | |
| 22.00 | | 0.3750 | 59.321 | 70.158 | 30798.9 | 26.48 | 158.19 | 76 | 79 | 479.4 | | | | |
| 24.00 | | 0.3750 | 58.850 | 69.597 | 30066.7 | 26.26 | 156.93 | 76 | 80 | 475.6 | | | | |
| 26.00 | | 0.3750 | 58.379 | 69.037 | 29346.3 | 26.04 | 155.68 | 76 | 80 | 471.7 | | | | |
| 28.00 | | 0.3750 | 57.908 | 68.477 | 28637.4 | 25.82 | 154.42 | 76 | 80 | 467.9 | | | | |
| 30.00 | | 0.3750 | 57.437 | 67.916 | 27940.1 | 25.60 | 153.17 | 76 | 80 | 464.1 | | | | |
| 32.00 | | 0.3750 | 56.967 | 67.356 | 27254.2 | 25.38 | 151.91 | 76 | 81 | 460.3 | | | | |
| 34.00 | | 0.3750 | 56.496 | 66.795 | 26579.6 | 25.15 | 150.66 | 76 | 81 | 456.5 | | | | |
| 36.00 | | 0.3750 | 56.025 | 66.235 | 25916.2 | 24.93 | 149.40 | 76 | 81 | 452.7 | | | | |
| 38.00 | | 0.3750 | 55.554 | 65.675 | 25263.9 | 24.71 | 148.14 | 76 | 82 | 448.9 | | | | |
| 40.00 | | 0.3750 | 55.083 | 65.114 | 24622.7 | 24.49 | 146.89 | 76 | 82 | 445.0 | | | | |
| 41.00 | Bot - Section 2 | 0.3750 | 54.848 | 64.834 | 24306.2 | 24.38 | 146.26 | 76 | 82 | 221.1 | | | | |
| 42.00 | | 0.3750 | 54.612 | 64.554 | 23992.4 | 24.27 | 145.63 | 76 | 82 | 443.3 | | | | |
| 44.00 | | 0.3750 | 54.142 | 63.993 | 23373.0 | 24.05 | 144.38 | 76 | 83 | 880.9 | | | | |
| 46.00 | | 0.3750 | 53.671 | 63.433 | 22764.3 | 23.83 | 143.12 | 76 | 83 | 873.3 | | | | |
| 48.00 | Top - Section 1 | 0.3750 | 53.950 | 63.765 | 23124.1 | 23.96 | 143.87 | 76 | 83 | 865.7 | | | | |
| 50.00 | | 0.3750 | 53.479 | 63.205 | 22519.7 | 23.74 | 142.61 | 76 | 83 | 432.1 | | | | |
| 51.00 | Top - Section 2 | 0.3750 | 53.244 | 62.925 | 22221.6 | 23.62 | 141.98 | 76 | 83 | 214.6 | | | | |
| 51.00 | Bot - Section 3 | 0.3750 | 53.244 | 62.925 | 22221.8 | 23.62 | 141.98 | 63 | 72 | | | | | |
| 52.00 | | 0.3750 | 53.009 | 62.645 | 21926.3 | 23.51 | 141.36 | 63 | 72 | 213.6 | | | | |
| 54.00 | | 0.3750 | 52.538 | 62.084 | 21343.1 | 23.29 | 140.10 | 63 | 72 | 424.4 | | | | |
| 56.00 | | 0.3750 | 52.067 | 61.524 | 20770.3 | 23.07 | 138.85 | 63 | 72 | 420.6 | | | | |
| 58.00 | | 0.3750 | 51.596 | 60.964 | 20207.9 | 22.85 | 137.59 | 63 | 73 | 416.8 | | | | |
| 60.00 | | 0.3750 | 51.125 | 60.403 | 19655.8 | 22.63 | 136.33 | 63 | 73 | 413.0 | | | | |
| 62.00 | | 0.3750 | 50.654 | 59.843 | 19113.8 | 22.41 | 135.08 | 63 | 73 | 409.2 | | | | |
| 64.00 | | 0.3750 | 50.184 | 59.283 | 18581.8 | 22.19 | 133.82 | 63 | 73 | 405.4 | | | | |
| 66.00 | | 0.3750 | 49.713 | 58.722 | 18059.8 | 21.96 | 132.57 | 63 | 74 | 401.5 | | | | |
| 66.17 | RB1 | 0.3750 | 49.673 | 58.675 | 18015.9 | 21.95 | 132.46 | 63 | 74 | 34.0 | 18.48 | 6572.7 | 6572.7 | 10.7 |
| 68.00 | | 0.3750 | 49.242 | 58.162 | 17547.7 | 21.74 | 131.31 | 63 | 74 | 363.8 | 18.48 | 6467.0 | 6467.0 | 115.3 |
| 70.00 | | 0.3750 | 48.771 | 57.601 | 17045.4 | 21.52 | 130.06 | 63 | 74 | 393.9 | 18.48 | 6352.5 | 6352.5 | 126.0 |
| 71.00 | Top - Section 3 | 0.3750 | 48.536 | 57.321 | 16797.8 | 21.41 | 129.43 | 63 | 74 | 195.5 | 18.48 | 6295.6 | 6295.6 | 63.0 |
| 71.00 | Bot - Section 4 | 0.3750 | 48.535 | 57.320 | 16797.1 | 21.41 | 129.43 | 56 | 67 | | | | | |
| 72.00 | | 0.3750 | 48.300 | 57.040 | 16552.0 | 21.30 | 128.80 | 56 | 67 | 194.6 | 18.48 | 6238.8 | 6238.8 | 63.0 |
| 74.00 | | 0.3750 | 47.829 | 56.480 | 16068.9 | 21.08 | 127.54 | 56 | 68 | 386.3 | 18.48 | 6126.3 | 6126.3 | 126.0 |
| 76.00 | | 0.3750 | 47.358 | 55.919 | 15595.4 | 20.86 | 126.29 | 56 | 68 | 382.5 | 18.48 | 6014.8 | 6014.8 | 126.0 |
| 78.00 | | 0.3750 | 46.887 | 55.359 | 15131.2 | 20.64 | 125.03 | 56 | 68 | 378.7 | 18.48 | 5904.4 | 5904.4 | 126.0 |
| 80.00 | | 0.3750 | 46.416 | 54.799 | 14676.3 | 20.41 | 123.78 | 56 | 68 | 374.8 | 18.48 | 5795.0 | 5795.0 | 126.0 |
| 81.00 | Top - Section 4 | 0.3750 | 46.181 | 54.518 | 14452.3 | 20.30 | 123.15 | 56 | 68 | 186.0 | 18.48 | 5740.7 | 5740.7 | 63.0 |
| 81.00 | Bot - Section 5 | 0.3125 | 46.181 | 45.494 | 12093.1 | 24.36 | 147.78 | 65 | 72 | | | | | |
| 82.00 | | 0.3125 | 45.946 | 45.261 | 11907.9 | 24.51 | 147.03 | 65 | 73 | 154.4 | 18.48 | 5686.6 | 5686.6 | 63.0 |

Increment Length: 2 (ft)

| Elev (ft) | Description | Thick (in) | Flat Dia (in) | Area (in^2) | Ix (in^4) | W/t Ratio | D/t Ratio | Fy (ksi) | Fb (ksi) | Weight (lb) | Additional Reinforcing | | | |
|--------------|-----------------|---------------|---------------------|----------------|--------------|--------------|--------------|-------------|-------------|----------------|------------------------|---------------|---------------|----------------|
| | | | | | | | | | | | Area (in^2) | Ixp (in^4) | Iyp (in^4) | Weight (lb) |
| 84.00 | | 0.3125 | 45.475 | 44.794 | 11543.1 | 24.25 | 145.52 | 65 | 73 | 306.4 | 18.48 | 5579.3 | 5579.3 | 126.0 |
| 85.00 | Bot - Section 6 | 0.3125 | 45.239 | 44.560 | 11363.5 | 24.12 | 144.77 | 65 | 73 | 152.0 | 18.48 | 5526.0 | 5526.0 | 63.0 |
| 86.00 | | 0.3125 | 45.004 | 44.327 | 11185.8 | 23.98 | 144.01 | 65 | 73 | 304.6 | 18.48 | 5614.5 | 5614.5 | 63.0 |
| 88.00 | | 0.3125 | 44.533 | 43.860 | 10836.0 | 23.72 | 142.51 | 65 | 74 | 604.4 | 18.48 | 5507.8 | 5507.8 | 126.0 |
| 90.00 | | 0.3125 | 44.062 | 43.393 | 10493.5 | 23.45 | 141.00 | 65 | 74 | 598.0 | 18.48 | 5402.1 | 5402.1 | 126.0 |
| 91.00 | Top - Section 5 | 0.3125 | 44.452 | 43.780 | 10776.8 | 23.67 | 142.25 | 65 | 74 | 296.6 | 18.48 | 5349.7 | 5349.7 | 63.0 |
| 92.00 | | 0.3125 | 44.217 | 43.546 | 10605.3 | 23.54 | 141.49 | 65 | 74 | 148.6 | 18.48 | 5297.5 | 5297.5 | 63.0 |
| 93.83 | RT1 | 0.3125 | 43.786 | 43.119 | 10296.2 | 23.30 | 140.12 | 65 | 74 | 269.8 | 18.48 | 5202.6 | 5202.6 | 115.3 |
| 94.00 | | 0.3125 | 43.746 | 43.079 | 10267.8 | 23.27 | 139.99 | 65 | 74 | 24.9 | | | | |
| 96.00 | | 0.3125 | 43.275 | 42.612 | 9937.5 | 23.01 | 138.48 | 65 | 74 | 291.6 | | | | |
| 98.00 | | 0.3125 | 42.805 | 42.145 | 9614.3 | 22.74 | 136.97 | 65 | 75 | 288.4 | | | | |
| 100.00 | | 0.3125 | 42.334 | 41.678 | 9298.2 | 22.48 | 135.47 | 65 | 75 | 285.2 | | | | |
| 102.00 | | 0.3125 | 41.863 | 41.211 | 8989.2 | 22.21 | 133.96 | 65 | 75 | 282.1 | | | | |
| 104.00 | | 0.3125 | 41.392 | 40.744 | 8687.0 | 21.94 | 132.45 | 65 | 76 | 278.9 | | | | |
| 106.00 | | 0.3125 | 40.921 | 40.277 | 8391.8 | 21.68 | 130.95 | 65 | 76 | 483.9 | | | | |
| 108.00 | | 0.3125 | 40.450 | 39.810 | 8103.2 | 21.41 | 129.44 | 65 | 76 | 478.2 | | | | |
| 110.00 | | 0.3125 | 39.980 | 39.343 | 7821.4 | 21.15 | 127.93 | 65 | 77 | 472.4 | | | | |
| 111.17 | RB2 | 0.3125 | 39.704 | 39.070 | 7659.6 | 20.99 | 127.05 | 65 | 77 | 273.7 | 9.24 | 1943.8 | 1943.8 | 36.9 |
| 112.00 | | 0.3125 | 39.509 | 38.876 | 7546.2 | 20.88 | 126.43 | 65 | 77 | 193.0 | 9.24 | 1925.4 | 1925.4 | 26.1 |
| 114.00 | | 0.3125 | 39.038 | 38.409 | 7277.5 | 20.62 | 124.92 | 65 | 77 | 461.0 | 9.24 | 1881.3 | 1881.3 | 63.0 |
| 115.00 | Top - Section 6 | 0.3125 | 38.802 | 38.176 | 7145.6 | 20.48 | 124.17 | 65 | 77 | 130.3 | 9.24 | 2083.9 | 2083.9 | 31.5 |
| 115.00 | Bot - Section 7 | 0.2500 | 38.802 | 30.590 | 5744.1 | 25.60 | 155.21 | 65 | 71 | | | | | |
| 116.00 | | 0.2500 | 38.567 | 30.403 | 5639.6 | 25.79 | 154.27 | 65 | 71 | 103.8 | 9.24 | 2060.8 | 2060.8 | 31.5 |
| 118.00 | | 0.2500 | 38.096 | 30.030 | 5434.2 | 25.46 | 152.38 | 65 | 71 | 205.6 | 9.24 | 2015.2 | 2015.2 | 63.0 |
| 120.00 | | 0.2500 | 37.625 | 29.656 | 5233.9 | 25.13 | 150.50 | 65 | 72 | 203.1 | 9.24 | 1970.0 | 1970.0 | 63.0 |
| 122.00 | | 0.2500 | 37.154 | 29.282 | 5038.6 | 24.79 | 148.62 | 65 | 72 | 200.6 | 9.24 | 1925.4 | 1925.4 | 63.0 |
| 123.83 | RT2 | 0.2500 | 36.723 | 28.940 | 4864.2 | 24.49 | 146.89 | 65 | 73 | 181.3 | 9.24 | 1885.0 | 1885.0 | 57.6 |
| 124.00 | | 0.2500 | 36.683 | 28.909 | 4848.2 | 24.46 | 146.73 | 65 | 73 | 16.7 | | | | |
| 126.00 | | 0.2500 | 36.212 | 28.535 | 4662.6 | 24.13 | 144.85 | 65 | 73 | 195.5 | | | | |
| 128.00 | | 0.2500 | 35.742 | 28.162 | 4481.9 | 23.80 | 142.97 | 65 | 73 | 192.9 | | | | |
| 130.00 | Bot - Section 8 | 0.2500 | 35.271 | 27.788 | 4305.9 | 23.47 | 141.08 | 65 | 74 | 190.4 | | | | |
| 132.00 | | 0.2500 | 34.800 | 27.414 | 4134.5 | 23.13 | 139.20 | 65 | 74 | 378.4 | | | | |
| 134.00 | | 0.2500 | 34.329 | 27.041 | 3967.8 | 22.80 | 137.32 | 65 | 75 | 373.3 | | | | |
| 135.00 | Top - Section 7 | 0.2500 | 34.594 | 27.251 | 4061.0 | 22.99 | 138.38 | 65 | 74 | 184.7 | | | | |
| 136.00 | | 0.2500 | 34.358 | 27.064 | 3978.1 | 22.82 | 137.43 | 65 | 75 | 92.4 | | | | |
| 138.00 | | 0.2500 | 33.888 | 26.691 | 3815.6 | 22.49 | 135.55 | 65 | 75 | 182.9 | | | | |
| 140.00 | | 0.2500 | 33.417 | 26.317 | 3657.6 | 22.16 | 133.67 | 65 | 75 | 180.4 | | | | |
| 142.00 | | 0.2500 | 32.946 | 25.943 | 3504.0 | 21.83 | 131.78 | 65 | 76 | 177.8 | | | | |
| 143.00 | | 0.2500 | 32.711 | 25.757 | 3428.9 | 21.66 | 130.84 | 65 | 76 | 88.0 | | | | |
| 144.00 | | 0.2500 | 32.475 | 25.570 | 3354.8 | 21.49 | 129.90 | 65 | 76 | 87.3 | | | | |
| 146.00 | | 0.2500 | 32.004 | 25.196 | 3209.9 | 21.16 | 128.02 | 65 | 77 | 172.7 | | | | |
| 148.00 | | 0.2500 | 31.533 | 24.823 | 3069.2 | 20.83 | 126.13 | 65 | 77 | 170.2 | | | | |
| 150.00 | | 0.2500 | 31.063 | 24.449 | 2932.7 | 20.50 | 124.25 | 65 | 77 | 167.7 | | | | |
| 152.00 | | 0.2500 | 30.592 | 24.075 | 2800.3 | 20.17 | 122.37 | 65 | 78 | 165.1 | | | | |
| 153.00 | | 0.2500 | 30.356 | 23.889 | 2735.7 | 20.00 | 121.43 | 65 | 78 | 81.6 | | | | |
| 154.00 | | 0.2500 | 30.121 | 23.702 | 2672.0 | 19.83 | 120.48 | 65 | 78 | 81.0 | | | | |
| 156.00 | | 0.2500 | 29.650 | 23.328 | 2547.6 | 19.50 | 118.60 | 65 | 78 | 160.0 | | | | |
| 158.00 | | 0.2500 | 29.179 | 22.955 | 2427.2 | 19.17 | 116.72 | 65 | 79 | 157.5 | | | | |
| 160.00 | | 0.2500 | 28.708 | 22.581 | 2310.6 | 18.84 | 114.83 | 65 | 79 | 154.9 | | | | |
| 162.00 | | 0.2500 | 28.238 | 22.207 | 2197.8 | 18.51 | 112.95 | 65 | 80 | 152.4 | | | | |
| 163.00 | | 0.2500 | 28.002 | 22.021 | 2142.8 | 18.34 | 112.01 | 65 | 80 | 75.2 | | | | |
| 164.00 | | 0.2500 | 27.767 | 21.834 | 2088.7 | 18.17 | 111.07 | 65 | 80 | 74.6 | | | | |
| 166.00 | | 0.2500 | 27.296 | 21.460 | 1983.3 | 17.84 | 109.18 | 65 | 80 | 147.3 | | | | |
| 168.00 | | 0.2500 | 26.825 | 21.087 | 1881.5 | 17.51 | 107.30 | 65 | 81 | 144.8 | | | | |
| 170.00 | | 0.2500 | 26.354 | 20.713 | 1783.3 | 17.18 | 105.42 | 65 | 81 | 142.2 | | | | |
| 172.00 | | 0.2500 | 25.883 | 20.339 | 1688.5 | 16.85 | 103.53 | 65 | 82 | 139.7 | | | | |
| 173.00 | | 0.2500 | 25.648 | 20.153 | 1642.4 | 16.68 | 102.59 | 65 | 82 | 68.9 | | | | |
| 174.00 | | 0.2500 | 25.413 | 19.966 | 1597.2 | 16.51 | 101.65 | 65 | 82 | 68.3 | | | | |
| 176.00 | | 0.2500 | 24.942 | 19.592 | 1509.2 | 16.18 | 99.77 | 65 | 82 | 134.6 | | | | |
| 178.00 | | 0.2500 | 24.471 | 19.219 | 1424.5 | 15.85 | 97.88 | 65 | 83 | 132.1 | | | | |

Increment Length: 2 (ft)

| Elev (ft) | Description | Thick (in) | Flat Dia (in) | Area (in^2) | Ix (in^4) | W/t Ratio | D/t Ratio | Fy (ksi) | Fb (ksi) | Weight (lb) | Additional Reinforcing | | | |
|---------------------|-----------------|---------------|---------------------|----------------|--------------|--------------|--------------|-------------|-------------|----------------|------------------------|---------------|---------------|----------------|
| | | | | | | | | | | | Area (in^2) | Ixp (in^4) | Iyp (in^4) | Weight (lb) |
| 180.00 | Top - Section 8 | 0.2500 | 24.000 | 18.845 | 1343.0 | 15.52 | 96.00 | 65 | 83 | 129.5 | | | | |
| 180.00 | Bot - Section 9 | 0.2810 | 24.000 | 20.939 | 1473.6 | 13.81 | 85.41 | 36 | 36 | | | | | |
| 181.00 | | 0.2810 | 24.000 | 20.939 | 1473.6 | 0.00 | 85.41 | 36 | 36 | 71.3 | | | | |
| 182.00 | | 0.2810 | 24.000 | 20.939 | 1473.6 | 0.00 | 85.41 | 36 | 36 | 71.3 | | | | |
| 183.00 | | 0.2810 | 24.000 | 20.939 | 1473.6 | 0.00 | 85.41 | 36 | 36 | 71.3 | | | | |
| Total Weight | | | | | | | | | | 32498.7 | 2188.9 | | | |

Wind Loading - Shaft

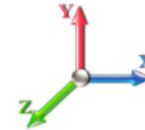
| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 11

Load Case: 1.2D + 1.6W 105 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 30

| Elev (ft) | Description | Kzt | Kz | qz (psf) | qzGh (psf) | C (mph-ft) | Cf | Ice Thick (in) | Tributary (ft) | Aa (sf) | CfAa (sf) | Wind Force X (lb) | Dead Load Ice (lb) | Tot Dead Load (lb) |
|-----------|-----------------|------|------|----------|------------|------------|-------|----------------|----------------|---------|-----------|-------------------|--------------------|--------------------|
| 0.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 479.47 | 0.650 | 0.000 | 0.00 | 0.000 | 0.00 | 0.0 | 0.0 | 0.0 |
| 2.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 475.97 | 0.650 | 0.000 | 2.00 | 10.876 | 7.07 | 233.5 | 0.0 | 621.0 |
| 4.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 472.47 | 0.650 | 0.000 | 2.00 | 10.796 | 7.02 | 231.8 | 0.0 | 616.4 |
| 6.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 468.97 | 0.650 | 0.000 | 2.00 | 10.717 | 6.97 | 230.1 | 0.0 | 611.9 |
| 8.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 465.47 | 0.650 | 0.000 | 2.00 | 10.637 | 6.91 | 228.4 | 0.0 | 607.3 |
| 10.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 461.97 | 0.650 | 0.000 | 2.00 | 10.557 | 6.86 | 226.7 | 0.0 | 602.7 |
| 12.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 458.47 | 0.650 | 0.000 | 2.00 | 10.478 | 6.81 | 225.0 | 0.0 | 598.1 |
| 14.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 454.97 | 0.650 | 0.000 | 2.00 | 10.398 | 6.76 | 223.3 | 0.0 | 593.5 |
| 16.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 451.47 | 0.650 | 0.000 | 2.00 | 10.318 | 6.71 | 221.5 | 0.0 | 589.0 |
| 18.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 447.97 | 0.650 | 0.000 | 2.00 | 10.239 | 6.66 | 219.8 | 0.0 | 584.4 |
| 20.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 444.47 | 0.650 | 0.000 | 2.00 | 10.159 | 6.60 | 218.1 | 0.0 | 579.8 |
| 22.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 440.97 | 0.650 | 0.000 | 2.00 | 10.079 | 6.55 | 216.4 | 0.0 | 575.2 |
| 24.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 437.47 | 0.650 | 0.000 | 2.00 | 9.999 | 6.50 | 214.7 | 0.0 | 570.7 |
| 26.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 433.97 | 0.650 | 0.000 | 2.00 | 9.920 | 6.45 | 213.0 | 0.0 | 566.1 |
| 28.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 430.47 | 0.650 | 0.000 | 2.00 | 9.840 | 6.40 | 211.3 | 0.0 | 561.5 |
| 30.00 | | 1.00 | 0.70 | 18.785 | 20.66 | 427.15 | 0.650 | 0.000 | 2.00 | 9.760 | 6.34 | 209.7 | 0.0 | 556.9 |
| 32.00 | | 1.00 | 0.71 | 19.134 | 21.05 | 427.58 | 0.650 | 0.000 | 2.00 | 9.681 | 6.29 | 211.9 | 0.0 | 552.4 |
| 34.00 | | 1.00 | 0.73 | 19.469 | 21.42 | 427.73 | 0.650 | 0.000 | 2.00 | 9.601 | 6.24 | 213.8 | 0.0 | 547.8 |
| 36.00 | | 1.00 | 0.74 | 19.789 | 21.77 | 427.64 | 0.650 | 0.000 | 2.00 | 9.521 | 6.19 | 215.6 | 0.0 | 543.2 |
| 38.00 | | 1.00 | 0.75 | 20.097 | 22.11 | 427.34 | 0.650 | 0.000 | 2.00 | 9.442 | 6.14 | 217.1 | 0.0 | 538.6 |
| 40.00 | | 1.00 | 0.76 | 20.394 | 22.43 | 426.83 | 0.650 | 0.000 | 2.00 | 9.362 | 6.09 | 218.4 | 0.0 | 534.1 |
| 41.00 | Bot - Section 2 | 1.00 | 0.77 | 20.538 | 22.59 | 426.51 | 0.650 | 0.000 | 1.00 | 4.651 | 3.02 | 109.3 | 0.0 | 265.3 |
| 42.00 | | 1.00 | 0.77 | 20.680 | 22.75 | 426.14 | 0.650 | 0.000 | 1.00 | 4.695 | 3.05 | 111.1 | 0.0 | 532.0 |
| 44.00 | | 1.00 | 0.78 | 20.957 | 23.05 | 425.29 | 0.650 | 0.000 | 2.00 | 9.330 | 6.06 | 223.7 | 0.0 | 1057.1 |
| 46.00 | | 1.00 | 0.79 | 21.225 | 23.35 | 424.27 | 0.650 | 0.000 | 2.00 | 9.250 | 6.01 | 224.6 | 0.0 | 1047.9 |
| 48.00 | Top - Section 1 | 1.00 | 0.80 | 21.485 | 23.63 | 423.12 | 0.650 | 0.000 | 2.00 | 9.170 | 5.96 | 225.4 | 0.0 | 1038.8 |
| 50.00 | | 1.00 | 0.81 | 21.737 | 23.91 | 427.83 | 0.650 | 0.000 | 2.00 | 9.091 | 5.91 | 226.1 | 0.0 | 518.5 |
| 51.00 | Top - Section 2 | 1.00 | 0.82 | 21.860 | 24.05 | 427.15 | 0.650 | 0.000 | 1.00 | 4.515 | 2.94 | 112.9 | 0.0 | 257.5 |
| 52.00 | | 1.00 | 0.82 | 21.982 | 24.18 | 426.44 | 0.650 | 0.000 | 1.00 | 4.495 | 2.92 | 113.0 | 0.0 | 256.4 |
| 54.00 | | 1.00 | 0.83 | 22.220 | 24.44 | 424.94 | 0.650 | 0.000 | 2.00 | 8.931 | 5.81 | 227.0 | 0.0 | 509.3 |
| 56.00 | | 1.00 | 0.84 | 22.452 | 24.70 | 423.33 | 0.650 | 0.000 | 2.00 | 8.852 | 5.75 | 227.4 | 0.0 | 504.7 |
| 58.00 | | 1.00 | 0.85 | 22.678 | 24.95 | 421.61 | 0.650 | 0.000 | 2.00 | 8.772 | 5.70 | 227.6 | 0.0 | 500.2 |
| 60.00 | | 1.00 | 0.85 | 22.899 | 25.19 | 419.79 | 0.650 | 0.000 | 2.00 | 8.692 | 5.65 | 227.7 | 0.0 | 495.6 |
| 62.00 | | 1.00 | 0.86 | 23.114 | 25.43 | 417.87 | 0.650 | 0.000 | 2.00 | 8.612 | 5.60 | 227.7 | 0.0 | 491.0 |
| 64.00 | | 1.00 | 0.87 | 23.325 | 25.66 | 415.87 | 0.650 | 0.000 | 2.00 | 8.533 | 5.55 | 227.7 | 0.0 | 486.4 |
| 66.00 | | 1.00 | 0.88 | 23.531 | 25.88 | 413.78 | 0.650 | 0.000 | 2.00 | 8.453 | 5.49 | 227.6 | 0.0 | 481.9 |
| 66.17 | RB1 | 1.00 | 0.88 | 23.548 | 25.90 | 413.60 | 0.650 | 0.000 | 0.17 | 0.715 | 0.46 | 19.3 | 0.0 | 40.7 |
| 68.00 | | 1.00 | 0.89 | 23.733 | 26.11 | 411.62 | 0.650 | 0.000 | 1.83 | 7.659 | 4.98 | 207.9 | 0.0 | 436.5 |
| 70.00 | | 1.00 | 0.89 | 23.930 | 26.32 | 409.37 | 0.650 | 0.000 | 2.00 | 8.294 | 5.39 | 227.0 | 0.0 | 472.7 |
| 71.00 | Top - Section 3 | 1.00 | 0.90 | 24.027 | 26.43 | 408.22 | 0.650 | 0.000 | 1.00 | 4.117 | 2.68 | 113.2 | 0.0 | 234.6 |
| 72.00 | | 1.00 | 0.90 | 24.123 | 26.54 | 407.05 | 0.650 | 0.000 | 1.00 | 4.097 | 2.66 | 113.1 | 0.0 | 233.5 |
| 74.00 | | 1.00 | 0.91 | 24.313 | 26.74 | 404.66 | 0.650 | 0.000 | 2.00 | 8.134 | 5.29 | 226.2 | 0.0 | 463.5 |
| 76.00 | | 1.00 | 0.91 | 24.499 | 26.95 | 402.21 | 0.650 | 0.000 | 2.00 | 8.055 | 5.24 | 225.7 | 0.0 | 459.0 |
| 78.00 | | 1.00 | 0.92 | 24.681 | 27.15 | 399.69 | 0.650 | 0.000 | 2.00 | 7.975 | 5.18 | 225.2 | 0.0 | 454.4 |
| 80.00 | | 1.00 | 0.93 | 24.861 | 27.35 | 397.11 | 0.650 | 0.000 | 2.00 | 7.895 | 5.13 | 224.5 | 0.0 | 449.8 |
| 81.00 | Top - Section 4 | 1.00 | 0.93 | 24.949 | 27.44 | 395.80 | 0.650 | 0.000 | 1.00 | 3.918 | 2.55 | 111.8 | 0.0 | 223.2 |
| 82.00 | | 1.00 | 0.93 | 25.037 | 27.54 | 394.47 | 0.650 | 0.000 | 1.00 | 3.898 | 2.53 | 111.6 | 0.0 | 185.3 |

Wind Loading - Shaft

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 12

| | | | | | | | | | | | | | |
|------------------------|------|------|--------|-------|--------|-------|-------|------|-------|------|-------|-----|-------|
| 84.00 | 1.00 | 0.94 | 25.210 | 27.73 | 391.78 | 0.650 | 0.000 | 2.00 | 7.736 | 5.03 | 223.1 | 0.0 | 367.7 |
| 85.00 Bot - Section 6 | 1.00 | 0.94 | 25.295 | 27.82 | 390.41 | 0.650 | 0.000 | 1.00 | 3.838 | 2.49 | 111.1 | 0.0 | 182.4 |
| 86.00 | 1.00 | 0.95 | 25.380 | 27.92 | 389.03 | 0.650 | 0.000 | 1.00 | 3.871 | 2.52 | 112.4 | 0.0 | 365.5 |
| 88.00 | 1.00 | 0.95 | 25.547 | 28.10 | 386.22 | 0.650 | 0.000 | 2.00 | 7.682 | 4.99 | 224.5 | 0.0 | 725.3 |
| 90.00 | 1.00 | 0.96 | 25.711 | 28.28 | 383.37 | 0.650 | 0.000 | 2.00 | 7.603 | 4.94 | 223.6 | 0.0 | 717.6 |
| 91.00 Top - Section 5 | 1.00 | 0.96 | 25.793 | 28.37 | 381.92 | 0.650 | 0.000 | 1.00 | 3.771 | 2.45 | 111.3 | 0.0 | 356.0 |
| 92.00 | 1.00 | 0.96 | 25.873 | 28.46 | 385.92 | 0.650 | 0.000 | 1.00 | 3.752 | 2.44 | 111.0 | 0.0 | 178.3 |
| 93.83 RT1 | 1.00 | 0.97 | 26.019 | 28.62 | 383.24 | 0.650 | 0.000 | 1.83 | 6.814 | 4.43 | 202.8 | 0.0 | 323.8 |
| 94.00 | 1.00 | 0.97 | 26.033 | 28.64 | 382.99 | 0.650 | 0.000 | 0.17 | 0.630 | 0.41 | 18.8 | 0.0 | 29.9 |
| 96.00 | 1.00 | 0.98 | 26.190 | 28.81 | 380.01 | 0.650 | 0.000 | 2.00 | 7.364 | 4.79 | 220.6 | 0.0 | 349.9 |
| 98.00 | 1.00 | 0.98 | 26.345 | 28.98 | 376.98 | 0.650 | 0.000 | 2.00 | 7.284 | 4.73 | 219.5 | 0.0 | 346.1 |
| 100.00 | 1.00 | 0.99 | 26.497 | 29.15 | 373.91 | 0.650 | 0.000 | 2.00 | 7.204 | 4.68 | 218.4 | 0.0 | 342.3 |
| 102.00 | 1.00 | 0.99 | 26.648 | 29.31 | 370.80 | 0.650 | 0.000 | 2.00 | 7.125 | 4.63 | 217.2 | 0.0 | 338.5 |
| 104.00 | 1.00 | 1.00 | 26.796 | 29.48 | 367.65 | 0.650 | 0.000 | 2.00 | 7.045 | 4.58 | 216.0 | 0.0 | 334.7 |
| 106.00 | 1.00 | 1.00 | 26.942 | 29.64 | 364.46 | 0.650 | 0.000 | 2.00 | 6.967 | 4.53 | 214.8 | 0.0 | 330.9 |
| 108.00 | 1.00 | 1.01 | 27.086 | 29.79 | 361.23 | 0.650 | 0.000 | 2.00 | 6.887 | 4.48 | 213.6 | 0.0 | 327.1 |
| 110.00 | 1.00 | 1.02 | 27.229 | 29.95 | 357.96 | 0.650 | 0.000 | 2.00 | 6.807 | 4.43 | 212.4 | 0.0 | 323.3 |
| 111.17 RB2 | 1.00 | 1.02 | 27.311 | 30.04 | 356.03 | 0.650 | 0.000 | 1.17 | 3.711 | 2.41 | 116.0 | 0.0 | 187.3 |
| 112.00 | 1.00 | 1.02 | 27.369 | 30.11 | 354.66 | 0.650 | 0.000 | 0.83 | 2.616 | 1.70 | 81.9 | 0.0 | 132.1 |
| 114.00 | 1.00 | 1.03 | 27.508 | 30.26 | 351.32 | 0.650 | 0.000 | 2.00 | 6.248 | 4.06 | 196.6 | 0.0 | 315.6 |
| 115.00 Top - Section 6 | 1.00 | 1.03 | 27.577 | 30.33 | 349.64 | 0.650 | 0.000 | 1.00 | 3.293 | 2.14 | 103.9 | 0.0 | 156.4 |
| 116.00 | 1.00 | 1.03 | 27.645 | 30.41 | 347.94 | 0.650 | 0.000 | 1.00 | 3.273 | 2.13 | 103.5 | 0.0 | 124.5 |
| 118.00 | 1.00 | 1.04 | 27.780 | 30.56 | 344.53 | 0.650 | 0.000 | 2.00 | 6.487 | 4.22 | 206.2 | 0.0 | 246.8 |
| 120.00 | 1.00 | 1.04 | 27.914 | 30.71 | 341.09 | 0.650 | 0.000 | 2.00 | 6.407 | 4.16 | 204.6 | 0.0 | 243.7 |
| 122.00 | 1.00 | 1.05 | 28.046 | 30.85 | 337.62 | 0.650 | 0.000 | 2.00 | 6.328 | 4.11 | 203.0 | 0.0 | 240.7 |
| 123.83 RT2 | 1.00 | 1.05 | 28.166 | 30.98 | 334.42 | 0.650 | 0.000 | 1.83 | 5.720 | 3.72 | 184.3 | 0.0 | 217.5 |
| 124.00 | 1.00 | 1.05 | 28.177 | 30.99 | 334.12 | 0.650 | 0.000 | 0.17 | 0.528 | 0.34 | 17.0 | 0.0 | 20.1 |
| 126.00 | 1.00 | 1.06 | 28.306 | 31.14 | 330.58 | 0.650 | 0.000 | 2.00 | 6.168 | 4.01 | 199.7 | 0.0 | 234.6 |
| 128.00 | 1.00 | 1.06 | 28.434 | 31.28 | 327.02 | 0.650 | 0.000 | 2.00 | 6.089 | 3.96 | 198.1 | 0.0 | 231.5 |
| 130.00 Bot - Section 8 | 1.00 | 1.07 | 28.560 | 31.42 | 323.43 | 0.650 | 0.000 | 2.00 | 6.009 | 3.91 | 196.3 | 0.0 | 228.5 |
| 132.00 | 1.00 | 1.07 | 28.685 | 31.55 | 319.81 | 0.650 | 0.000 | 2.00 | 6.014 | 3.91 | 197.4 | 0.0 | 454.1 |
| 134.00 | 1.00 | 1.07 | 28.808 | 31.69 | 316.16 | 0.650 | 0.000 | 2.00 | 5.934 | 3.86 | 195.6 | 0.0 | 448.0 |
| 135.00 Top - Section 7 | 1.00 | 1.08 | 28.869 | 31.76 | 314.32 | 0.650 | 0.000 | 1.00 | 2.937 | 1.91 | 97.0 | 0.0 | 221.7 |
| 136.00 | 1.00 | 1.08 | 28.930 | 31.82 | 317.10 | 0.650 | 0.000 | 1.00 | 2.917 | 1.90 | 96.6 | 0.0 | 110.9 |
| 138.00 | 1.00 | 1.08 | 29.051 | 31.96 | 313.41 | 0.650 | 0.000 | 2.00 | 5.775 | 3.75 | 191.9 | 0.0 | 219.5 |
| 140.00 | 1.00 | 1.09 | 29.171 | 32.09 | 309.69 | 0.650 | 0.000 | 2.00 | 5.695 | 3.70 | 190.1 | 0.0 | 216.4 |
| 142.00 | 1.00 | 1.09 | 29.289 | 32.22 | 305.95 | 0.650 | 0.000 | 2.00 | 5.616 | 3.65 | 188.2 | 0.0 | 213.4 |
| 143.00 Appurtenance(s) | 1.00 | 1.09 | 29.348 | 32.28 | 304.06 | 0.650 | 0.000 | 1.00 | 2.778 | 1.81 | 93.3 | 0.0 | 105.6 |
| 144.00 | 1.00 | 1.10 | 29.407 | 32.35 | 302.18 | 0.650 | 0.000 | 1.00 | 2.758 | 1.79 | 92.8 | 0.0 | 104.8 |
| 146.00 | 1.00 | 1.10 | 29.523 | 32.48 | 298.38 | 0.650 | 0.000 | 2.00 | 5.456 | 3.55 | 184.3 | 0.0 | 207.3 |
| 148.00 | 1.00 | 1.11 | 29.638 | 32.60 | 294.56 | 0.650 | 0.000 | 2.00 | 5.376 | 3.49 | 182.3 | 0.0 | 204.2 |
| 150.00 | 1.00 | 1.11 | 29.752 | 32.73 | 290.72 | 0.650 | 0.000 | 2.00 | 5.297 | 3.44 | 180.3 | 0.0 | 201.2 |
| 152.00 | 1.00 | 1.11 | 29.865 | 32.85 | 286.86 | 0.650 | 0.000 | 2.00 | 5.217 | 3.39 | 178.2 | 0.0 | 198.1 |
| 153.00 Appurtenance(s) | 1.00 | 1.12 | 29.921 | 32.91 | 284.92 | 0.650 | 0.000 | 1.00 | 2.579 | 1.68 | 88.3 | 0.0 | 97.9 |
| 154.00 | 1.00 | 1.12 | 29.976 | 32.97 | 282.97 | 0.650 | 0.000 | 1.00 | 2.559 | 1.66 | 87.7 | 0.0 | 97.2 |
| 156.00 | 1.00 | 1.12 | 30.087 | 33.10 | 279.06 | 0.650 | 0.000 | 2.00 | 5.058 | 3.29 | 174.1 | 0.0 | 192.0 |
| 158.00 Appurtenance(s) | 1.00 | 1.13 | 30.197 | 33.22 | 275.13 | 0.650 | 0.000 | 2.00 | 4.978 | 3.24 | 172.0 | 0.0 | 189.0 |
| 160.00 | 1.00 | 1.13 | 30.305 | 33.34 | 271.18 | 0.650 | 0.000 | 2.00 | 4.898 | 3.18 | 169.8 | 0.0 | 185.9 |
| 162.00 | 1.00 | 1.13 | 30.413 | 33.45 | 267.21 | 0.650 | 0.000 | 2.00 | 4.819 | 3.13 | 167.7 | 0.0 | 182.9 |
| 163.00 Appurtenance(s) | 1.00 | 1.14 | 30.467 | 33.51 | 265.21 | 0.650 | 0.000 | 1.00 | 2.379 | 1.55 | 82.9 | 0.0 | 90.3 |
| 164.00 | 1.00 | 1.14 | 30.520 | 33.57 | 263.21 | 0.650 | 0.000 | 1.00 | 2.360 | 1.53 | 82.4 | 0.0 | 89.5 |
| 166.00 | 1.00 | 1.14 | 30.626 | 33.69 | 259.20 | 0.650 | 0.000 | 2.00 | 4.659 | 3.03 | 163.2 | 0.0 | 176.8 |
| 168.00 | 1.00 | 1.15 | 30.731 | 33.80 | 255.16 | 0.650 | 0.000 | 2.00 | 4.580 | 2.98 | 161.0 | 0.0 | 173.7 |
| 170.00 | 1.00 | 1.15 | 30.835 | 33.92 | 251.11 | 0.650 | 0.000 | 2.00 | 4.500 | 2.92 | 158.7 | 0.0 | 170.7 |
| 172.00 | 1.00 | 1.15 | 30.938 | 34.03 | 247.03 | 0.650 | 0.000 | 2.00 | 4.420 | 2.87 | 156.4 | 0.0 | 167.6 |
| 173.00 Appurtenance(s) | 1.00 | 1.16 | 30.989 | 34.09 | 244.99 | 0.650 | 0.000 | 1.00 | 2.180 | 1.42 | 77.3 | 0.0 | 82.7 |
| 174.00 | 1.00 | 1.16 | 31.041 | 34.14 | 242.94 | 0.650 | 0.000 | 1.00 | 2.160 | 1.40 | 76.7 | 0.0 | 81.9 |

Wind Loading - Shaft

| | | |
|---------------------------------|-----------------------------------|-----------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Page: 13 |
| | Struct Class: II | |



| | | | | | | | | | | | | | |
|------------------------|------|------|--------|-------|--------|-------|-------|---------------|-------|------|-----------------|-----|-----------------|
| 176.00 | 1.00 | 1.16 | 31.142 | 34.26 | 238.83 | 0.650 | 0.000 | 2.00 | 4.261 | 2.77 | 151.8 | 0.0 | 161.5 |
| 178.00 | 1.00 | 1.17 | 31.243 | 34.37 | 234.70 | 0.650 | 0.000 | 2.00 | 4.181 | 2.72 | 149.4 | 0.0 | 158.5 |
| 180.00 Top - Section 8 | 1.00 | 1.17 | 31.343 | 34.48 | 230.55 | 0.650 | 0.000 | 2.00 | 4.102 | 2.67 | 147.1 | 0.0 | 155.4 |
| 181.00 Appurtenance(s) | 1.00 | 1.17 | 31.392 | 34.53 | 227.23 | 0.600 | 0.000 | 1.00 | 2.000 | 1.20 | 66.3 | 0.0 | 85.5 |
| 182.00 | 1.00 | 1.17 | 31.442 | 34.59 | 227.41 | 0.600 | 0.000 | 1.00 | 2.000 | 1.20 | 66.4 | 0.0 | 85.5 |
| 183.00 | 1.00 | 1.17 | 31.491 | 34.64 | 227.58 | 0.600 | 0.000 | 1.00 | 2.000 | 1.20 | 66.5 | 0.0 | 85.5 |
| Totals: | | | | | | | | 183.00 | | | 18,722.6 | | 37,779.9 |

Discrete Appurtenance Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |

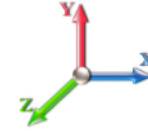


Page: 14

Load Case: 1.2D + 1.6W 105 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 30

| No. | Elev (ft) | Description | Qty | qz (psf) | qzGh (psf) | Orient Factor | x Ka | Ka | Total CaAa (sf) | Dead Load (lb) | Horiz Ecc (ft) | Vert Ecc (ft) | Wind FX (lb) | Mom Y (lb-ft) | Mom Z (lb-ft) |
|-----|-----------|-------------------------|-----|----------|------------|---------------|------|-------|-----------------|----------------|----------------|---------------|--------------|---------------|---------------|
| 1 | 181.00 | Low Profile | 1 | 31.392 | 34.532 | 1.00 | 1.00 | 22.00 | 1800.00 | 1800.00 | 0.000 | 0.000 | 1215.51 | 0.00 | 0.00 |
| 2 | 173.00 | Samsung B2/B66 RRH | 3 | 30.989 | 34.088 | 0.54 | 0.80 | 3.01 | 303.84 | 303.84 | 0.000 | 0.000 | 164.00 | 0.00 | 0.00 |
| 3 | 173.00 | Andrew JAHH-65B-R3B | 6 | 30.989 | 34.088 | 0.66 | 0.80 | 36.29 | 455.76 | 455.76 | 0.000 | 0.000 | 1979.54 | 0.00 | 0.00 |
| 4 | 173.00 | BSAMNT-SBS-1-2 | 3 | 30.989 | 34.088 | 0.75 | 0.75 | 0.00 | 91.26 | 91.26 | 0.000 | 0.000 | 0.00 | 0.00 | 0.00 |
| 5 | 173.00 | CBC78T-DS-43/E14F05P | 3 | 30.989 | 34.088 | 0.54 | 0.80 | 0.59 | 37.44 | 37.44 | 0.000 | 0.000 | 32.45 | 0.00 | 0.00 |
| 6 | 173.00 | Samsung MT6407-77A | 3 | 30.989 | 34.088 | 0.56 | 0.80 | 7.88 | 285.84 | 285.84 | 0.000 | 0.000 | 429.74 | 0.00 | 0.00 |
| 7 | 173.00 | Samsung B5/B13 RRH | 3 | 30.989 | 34.088 | 0.54 | 0.80 | 3.01 | 253.08 | 253.08 | 0.000 | 0.000 | 164.00 | 0.00 | 0.00 |
| 8 | 173.00 | (3) T-Arms | 1 | 30.989 | 34.088 | 0.75 | 0.75 | 22.50 | 1800.00 | 1800.00 | 0.000 | 0.000 | 1227.18 | 0.00 | 0.00 |
| 9 | 173.00 | LPA-80080-4CF-EDIN-0 | 4 | 30.989 | 34.088 | 1.36 | 0.80 | 14.20 | 57.60 | 57.60 | 0.000 | 0.000 | 774.40 | 0.00 | 0.00 |
| 10 | 173.00 | APL866513-42T0 | 2 | 30.989 | 34.088 | 0.74 | 0.80 | 6.03 | 37.68 | 37.68 | 0.000 | 0.000 | 328.69 | 0.00 | 0.00 |
| 11 | 173.00 | DB-T1-6Z-8AB-OZ | 2 | 30.989 | 34.088 | 0.60 | 0.80 | 5.76 | 105.60 | 105.60 | 0.000 | 0.000 | 314.16 | 0.00 | 0.00 |
| 12 | 163.00 | LLPX310R | 3 | 30.467 | 33.513 | 0.55 | 0.80 | 7.12 | 102.96 | 102.96 | 0.000 | 0.000 | 381.83 | 0.00 | 0.00 |
| 13 | 163.00 | Low Profile | 1 | 30.467 | 33.513 | 1.00 | 1.00 | 22.00 | 1800.00 | 1800.00 | 0.000 | 0.000 | 1179.67 | 0.00 | 0.00 |
| 14 | 163.00 | DAP Head | 3 | 30.467 | 33.513 | 0.54 | 0.80 | 3.02 | 151.20 | 151.20 | 0.000 | 0.000 | 162.10 | 0.00 | 0.00 |
| 15 | 158.00 | Low Profile | 1 | 30.197 | 33.216 | 1.00 | 1.00 | 22.00 | 1800.00 | 1800.00 | 0.000 | 0.000 | 1169.22 | 0.00 | 0.00 |
| 16 | 153.00 | V-brace kit | 1 | 29.921 | 32.913 | 1.00 | 1.00 | 2.70 | 276.00 | 276.00 | 0.000 | 0.000 | 142.18 | 0.00 | 0.00 |
| 17 | 153.00 | SPTB(Tie back Kit) | 1 | 29.921 | 32.913 | 1.00 | 1.00 | 3.70 | 168.00 | 168.00 | 0.000 | 0.000 | 194.84 | 0.00 | 0.00 |
| 18 | 153.00 | PRK-1245 (kicker kit) | 1 | 29.921 | 32.913 | 1.00 | 1.00 | 9.50 | 557.89 | 557.89 | 0.000 | 0.000 | 500.27 | 0.00 | 0.00 |
| 19 | 153.00 | RFS | 3 | 29.921 | 32.913 | 0.56 | 0.80 | 34.00 | 442.08 | 442.08 | 0.000 | 0.000 | 1790.61 | 0.00 | 0.00 |
| 20 | 153.00 | KRY 112 144/1 | 3 | 29.921 | 32.913 | 0.56 | 0.80 | 0.69 | 39.60 | 39.60 | 0.000 | 0.000 | 36.27 | 0.00 | 0.00 |
| 21 | 153.00 | Ericsson Air 21 B2A/B4P | 3 | 29.921 | 32.913 | 0.69 | 0.80 | 12.57 | 329.40 | 329.40 | 0.000 | 0.000 | 661.93 | 0.00 | 0.00 |
| 22 | 153.00 | Low Profile Platform | 1 | 29.921 | 32.913 | 1.00 | 1.00 | 25.00 | 1440.00 | 1440.00 | 0.000 | 0.000 | 1316.50 | 0.00 | 0.00 |
| 23 | 153.00 | Ericsson 4449 B71 + B85 | 3 | 29.921 | 32.913 | 0.54 | 0.80 | 3.17 | 263.52 | 263.52 | 0.000 | 0.000 | 166.81 | 0.00 | 0.00 |
| 24 | 153.00 | Ericsson Air 21 B4A/B2P | 3 | 29.921 | 32.913 | 0.69 | 0.80 | 12.57 | 325.44 | 325.44 | 0.000 | 0.000 | 661.93 | 0.00 | 0.00 |
| 25 | 143.00 | Powerwave 7770.00 | 3 | 29.348 | 32.283 | 0.55 | 0.75 | 9.03 | 126.00 | 126.00 | 0.000 | 0.000 | 466.62 | 0.00 | 0.00 |
| 26 | 143.00 | 850-1900 Dual Band | 3 | 29.348 | 32.283 | 0.49 | 0.75 | 0.77 | 19.80 | 19.80 | 0.000 | 0.000 | 39.89 | 0.00 | 0.00 |
| 27 | 143.00 | Low Profile | 1 | 29.348 | 32.283 | 1.00 | 1.00 | 22.00 | 1800.00 | 1800.00 | 0.000 | 0.000 | 1136.36 | 0.00 | 0.00 |
| 28 | 143.00 | RRUS 11 | 3 | 29.348 | 32.283 | 0.50 | 0.75 | 3.80 | 182.52 | 182.52 | 0.000 | 0.000 | 196.22 | 0.00 | 0.00 |
| 29 | 143.00 | DC6-48-60-18-8F | 1 | 29.348 | 32.283 | 0.75 | 0.75 | 1.10 | 38.16 | 38.16 | 0.000 | 0.000 | 56.95 | 0.00 | 0.00 |
| 30 | 143.00 | DBC-750 | 3 | 29.348 | 32.283 | 0.38 | 0.75 | 0.57 | 17.28 | 17.28 | 0.000 | 0.000 | 29.64 | 0.00 | 0.00 |
| 31 | 143.00 | HRK14 | 1 | 29.348 | 32.283 | 1.00 | 1.00 | 10.13 | 422.83 | 422.83 | 0.000 | 0.000 | 523.24 | 0.00 | 0.00 |
| 32 | 143.00 | TPA-65R-LCUUUU-H8 | 2 | 29.348 | 32.283 | 0.62 | 0.75 | 16.56 | 180.00 | 180.00 | 0.000 | 0.000 | 855.30 | 0.00 | 0.00 |
| 33 | 143.00 | QS46512-2 | 1 | 29.348 | 32.283 | 0.75 | 0.75 | 4.16 | 32.76 | 32.76 | 0.000 | 0.000 | 215.01 | 0.00 | 0.00 |
| 34 | 143.00 | OPA-65R-LCUU-H4 | 1 | 29.348 | 32.283 | 0.75 | 0.75 | 4.46 | 68.40 | 68.40 | 0.000 | 0.000 | 230.11 | 0.00 | 0.00 |
| 35 | 143.00 | OPA-65R-LCUU-H8 | 2 | 29.348 | 32.283 | 0.59 | 0.75 | 15.11 | 228.00 | 228.00 | 0.000 | 0.000 | 780.41 | 0.00 | 0.00 |
| 36 | 143.00 | DTMABP7819VG12A | 3 | 29.348 | 32.283 | 0.50 | 0.75 | 1.72 | 69.12 | 69.12 | 0.000 | 0.000 | 88.77 | 0.00 | 0.00 |
| 37 | 143.00 | DBC0061F1V51-2 | 3 | 29.348 | 32.283 | 0.50 | 0.75 | 0.65 | 91.44 | 91.44 | 0.000 | 0.000 | 33.48 | 0.00 | 0.00 |
| 38 | 143.00 | RRUS 32 B2 | 3 | 29.348 | 32.283 | 0.50 | 0.75 | 4.13 | 190.80 | 190.80 | 0.000 | 0.000 | 213.36 | 0.00 | 0.00 |

Totals: 16,391.30

19,859.21

Total Applied Force Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |

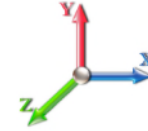


Page: 15

Load Case: 1.2D + 1.6W 105 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 30

| Elev (ft) | Description | Lateral FX (-) (lb) | Axial FY (-) (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) |
|--------------|-------------|---------------------------|-------------------------|--------------------------|-------------------------|
| 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 |
| 2.00 | | 233.53 | 728.44 | 0.00 | 0.00 |
| 4.00 | | 231.82 | 723.86 | 0.00 | 0.00 |
| 6.00 | | 230.10 | 719.29 | 0.00 | 0.00 |
| 8.00 | | 228.39 | 714.71 | 0.00 | 0.00 |
| 10.00 | | 226.68 | 710.13 | 0.00 | 0.00 |
| 12.00 | | 224.97 | 705.56 | 0.00 | 0.00 |
| 14.00 | | 223.26 | 700.98 | 0.00 | 0.00 |
| 16.00 | | 221.55 | 696.40 | 0.00 | 0.00 |
| 18.00 | | 219.84 | 691.83 | 0.00 | 0.00 |
| 20.00 | | 218.13 | 687.25 | 0.00 | 0.00 |
| 22.00 | | 216.42 | 682.67 | 0.00 | 0.00 |
| 24.00 | | 214.71 | 678.10 | 0.00 | 0.00 |
| 26.00 | | 212.99 | 673.52 | 0.00 | 0.00 |
| 28.00 | | 211.28 | 668.94 | 0.00 | 0.00 |
| 30.00 | | 209.75 | 664.37 | 0.00 | 0.00 |
| 32.00 | | 211.91 | 659.79 | 0.00 | 0.00 |
| 34.00 | | 213.84 | 655.22 | 0.00 | 0.00 |
| 36.00 | | 215.55 | 650.64 | 0.00 | 0.00 |
| 38.00 | | 217.08 | 646.06 | 0.00 | 0.00 |
| 40.00 | | 218.42 | 641.49 | 0.00 | 0.00 |
| 41.00 | | 109.28 | 319.03 | 0.00 | 0.00 |
| 42.00 | | 111.07 | 585.69 | 0.00 | 0.00 |
| 44.00 | | 223.68 | 1164.53 | 0.00 | 0.00 |
| 46.00 | | 224.60 | 1155.37 | 0.00 | 0.00 |
| 48.00 | | 225.39 | 1146.22 | 0.00 | 0.00 |
| 50.00 | | 226.05 | 625.89 | 0.00 | 0.00 |
| 51.00 | | 112.92 | 311.23 | 0.00 | 0.00 |
| 52.00 | | 113.05 | 310.09 | 0.00 | 0.00 |
| 54.00 | | 227.03 | 616.74 | 0.00 | 0.00 |
| 56.00 | | 227.35 | 612.17 | 0.00 | 0.00 |
| 58.00 | | 227.58 | 607.59 | 0.00 | 0.00 |
| 60.00 | | 227.70 | 603.01 | 0.00 | 0.00 |
| 62.00 | | 227.74 | 598.44 | 0.00 | 0.00 |
| 64.00 | | 227.69 | 593.86 | 0.00 | 0.00 |
| 66.00 | | 227.55 | 589.28 | 0.00 | 0.00 |
| 66.17 | | 19.26 | 49.88 | 0.00 | 0.00 |
| 68.00 | | 207.93 | 534.83 | 0.00 | 0.00 |
| 70.00 | | 227.05 | 580.13 | 0.00 | 0.00 |
| 71.00 | | 113.16 | 288.35 | 0.00 | 0.00 |
| 72.00 | | 113.07 | 287.20 | 0.00 | 0.00 |
| 74.00 | | 226.25 | 570.97 | 0.00 | 0.00 |
| 76.00 | | 225.74 | 566.39 | 0.00 | 0.00 |
| 78.00 | | 225.18 | 561.82 | 0.00 | 0.00 |
| 80.00 | | 224.54 | 557.24 | 0.00 | 0.00 |
| 81.00 | | 111.82 | 276.90 | 0.00 | 0.00 |
| 82.00 | | 111.64 | 239.01 | 0.00 | 0.00 |

Total Applied Force Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 16

| | | | | | |
|--------|------------------|---------|---------|------|------|
| 84.00 | | 223.10 | 475.15 | 0.00 | 0.00 |
| 85.00 | | 111.06 | 236.15 | 0.00 | 0.00 |
| 86.00 | | 112.39 | 419.20 | 0.00 | 0.00 |
| 88.00 | | 224.52 | 832.69 | 0.00 | 0.00 |
| 90.00 | | 223.63 | 825.06 | 0.00 | 0.00 |
| 91.00 | | 111.28 | 409.67 | 0.00 | 0.00 |
| 92.00 | | 111.04 | 232.01 | 0.00 | 0.00 |
| 93.83 | | 202.82 | 422.10 | 0.00 | 0.00 |
| 94.00 | | 18.75 | 39.05 | 0.00 | 0.00 |
| 96.00 | | 220.63 | 457.34 | 0.00 | 0.00 |
| 98.00 | | 219.53 | 453.52 | 0.00 | 0.00 |
| 100.00 | | 218.38 | 449.71 | 0.00 | 0.00 |
| 102.00 | | 217.19 | 445.90 | 0.00 | 0.00 |
| 104.00 | | 215.96 | 442.08 | 0.00 | 0.00 |
| 106.00 | | 202.40 | 438.27 | 0.00 | 0.00 |
| 108.00 | | 201.01 | 434.46 | 0.00 | 0.00 |
| 110.00 | | 199.59 | 430.64 | 0.00 | 0.00 |
| 111.17 | | 115.96 | 250.16 | 0.00 | 0.00 |
| 112.00 | | 81.92 | 176.67 | 0.00 | 0.00 |
| 114.00 | | 196.62 | 423.01 | 0.00 | 0.00 |
| 115.00 | | 103.90 | 210.08 | 0.00 | 0.00 |
| 116.00 | | 103.53 | 178.24 | 0.00 | 0.00 |
| 118.00 | | 206.16 | 354.20 | 0.00 | 0.00 |
| 120.00 | | 204.61 | 351.15 | 0.00 | 0.00 |
| 122.00 | | 203.02 | 348.10 | 0.00 | 0.00 |
| 123.83 | | 184.31 | 315.83 | 0.00 | 0.00 |
| 124.00 | | 17.02 | 29.21 | 0.00 | 0.00 |
| 126.00 | | 199.74 | 341.99 | 0.00 | 0.00 |
| 128.00 | | 198.05 | 338.94 | 0.00 | 0.00 |
| 130.00 | | 196.33 | 335.89 | 0.00 | 0.00 |
| 132.00 | | 197.35 | 561.49 | 0.00 | 0.00 |
| 134.00 | | 195.57 | 555.39 | 0.00 | 0.00 |
| 135.00 | | 97.01 | 275.41 | 0.00 | 0.00 |
| 136.00 | | 96.55 | 164.61 | 0.00 | 0.00 |
| 138.00 | | 191.93 | 326.93 | 0.00 | 0.00 |
| 140.00 | | 190.06 | 323.88 | 0.00 | 0.00 |
| 142.00 | | 188.16 | 320.83 | 0.00 | 0.00 |
| 143.00 | (30) attachments | 4958.62 | 3626.38 | 0.00 | 0.00 |
| 144.00 | | 92.78 | 142.47 | 0.00 | 0.00 |
| 146.00 | | 184.28 | 282.66 | 0.00 | 0.00 |
| 148.00 | | 182.29 | 279.61 | 0.00 | 0.00 |
| 150.00 | | 180.28 | 276.56 | 0.00 | 0.00 |
| 152.00 | | 178.24 | 273.51 | 0.00 | 0.00 |
| 153.00 | (19) attachments | 5559.62 | 3977.54 | 0.00 | 0.00 |
| 154.00 | | 87.75 | 120.02 | 0.00 | 0.00 |
| 156.00 | | 174.09 | 237.74 | 0.00 | 0.00 |
| 158.00 | (1) attachments | 1341.19 | 2034.69 | 0.00 | 0.00 |
| 160.00 | | 169.82 | 231.64 | 0.00 | 0.00 |
| 162.00 | | 167.66 | 228.59 | 0.00 | 0.00 |
| 163.00 | (7) attachments | 1806.53 | 2167.31 | 0.00 | 0.00 |
| 164.00 | | 82.38 | 108.73 | 0.00 | 0.00 |
| 166.00 | | 163.25 | 215.17 | 0.00 | 0.00 |
| 168.00 | | 161.00 | 212.12 | 0.00 | 0.00 |
| 170.00 | | 158.74 | 209.07 | 0.00 | 0.00 |
| 172.00 | | 156.45 | 206.01 | 0.00 | 0.00 |
| 173.00 | (30) attachments | 5491.47 | 3529.96 | 0.00 | 0.00 |
| 174.00 | | 76.71 | 83.48 | 0.00 | 0.00 |

Total Applied Force Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 17

| | | | | |
|----------------|-------------------------|------------------|-------------|-------------|
| 176.00 | 151.80 | 164.68 | 0.00 | 0.00 |
| 178.00 | 149.45 | 161.63 | 0.00 | 0.00 |
| 180.00 | 147.07 | 158.58 | 0.00 | 0.00 |
| 181.00 | (1) attachments 1281.81 | 1887.08 | 0.00 | 0.00 |
| 182.00 | 66.40 | 87.08 | 0.00 | 0.00 |
| 183.00 | 66.51 | 87.08 | 0.00 | 0.00 |
| Totals: | 38,581.84 | 62,665.51 | 0.00 | 0.00 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 18

Load Case: 1.2D + 1.6W 105 mph Wind

Iterations 30

Dead Load Factor 1.20

Wind Load Factor 1.60



| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 2.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.030 | 0.000 | 18.769 | 0.00 | 0.66 |
| 2.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.030 | 0.000 | 18.769 | 0.00 | 2.50 |
| 2.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.030 | 0.000 | 18.769 | 0.00 | 7.49 |
| 4.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 0.66 |
| 4.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 2.50 |
| 4.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 7.49 |
| 6.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 0.66 |
| 6.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 2.50 |
| 6.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 7.49 |
| 8.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 0.66 |
| 8.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 2.50 |
| 8.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 7.49 |
| 10.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 0.66 |
| 10.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 2.50 |
| 10.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 7.49 |
| 12.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 0.66 |
| 12.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 2.50 |
| 12.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 7.49 |
| 14.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 0.66 |
| 14.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 2.50 |
| 14.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 7.49 |
| 16.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 0.66 |
| 16.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 2.50 |
| 16.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 7.49 |
| 18.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 0.66 |
| 18.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 2.50 |
| 18.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 7.49 |
| 20.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 0.66 |
| 20.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 2.50 |
| 20.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 7.49 |
| 22.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 0.66 |
| 22.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 2.50 |
| 22.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 7.49 |
| 24.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 0.66 |
| 24.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 2.50 |
| 24.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 7.49 |
| 26.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 0.66 |
| 26.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 2.50 |
| 26.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 7.49 |
| 28.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 18.769 | 0.00 | 0.66 |
| 28.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 18.769 | 0.00 | 2.50 |
| 28.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.034 | 0.000 | 18.769 | 0.00 | 7.49 |
| 30.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 18.785 | 0.00 | 0.66 |
| 30.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 18.785 | 0.00 | 2.50 |
| 30.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.034 | 0.000 | 18.785 | 0.00 | 7.49 |
| 32.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 19.134 | 0.00 | 0.66 |
| 32.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 19.134 | 0.00 | 2.50 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 19

| | |
|--|----------------------|
| Load Case: 1.2D + 1.6W 105 mph Wind | Iterations 30 |
| Dead Load Factor 1.20 | |
| Wind Load Factor 1.60 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 32.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.034 | 0.000 | 19.134 | 0.00 | 7.49 |
| 34.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 19.469 | 0.00 | 0.66 |
| 34.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 19.469 | 0.00 | 2.50 |
| 34.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.034 | 0.000 | 19.469 | 0.00 | 7.49 |
| 36.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 19.789 | 0.00 | 0.66 |
| 36.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 19.789 | 0.00 | 2.50 |
| 36.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.035 | 0.000 | 19.789 | 0.00 | 7.49 |
| 38.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 20.097 | 0.00 | 0.66 |
| 38.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 20.097 | 0.00 | 2.50 |
| 38.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.035 | 0.000 | 20.097 | 0.00 | 7.49 |
| 40.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 20.394 | 0.00 | 0.66 |
| 40.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 20.394 | 0.00 | 2.50 |
| 40.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.035 | 0.000 | 20.394 | 0.00 | 7.49 |
| 41.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 20.538 | 0.00 | 0.33 |
| 41.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 20.538 | 0.00 | 1.25 |
| 41.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.035 | 0.000 | 20.538 | 0.00 | 3.74 |
| 42.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 20.680 | 0.00 | 0.33 |
| 42.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 20.680 | 0.00 | 1.25 |
| 42.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.036 | 0.000 | 20.680 | 0.00 | 3.74 |
| 44.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 20.957 | 0.00 | 0.66 |
| 44.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 20.957 | 0.00 | 2.50 |
| 44.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.036 | 0.000 | 20.957 | 0.00 | 7.49 |
| 46.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 21.225 | 0.00 | 0.66 |
| 46.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 21.225 | 0.00 | 2.50 |
| 46.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.036 | 0.000 | 21.225 | 0.00 | 7.49 |
| 48.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 21.485 | 0.00 | 0.66 |
| 48.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 21.485 | 0.00 | 2.50 |
| 48.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.036 | 0.000 | 21.485 | 0.00 | 7.49 |
| 50.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 21.737 | 0.00 | 0.66 |
| 50.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 21.737 | 0.00 | 2.50 |
| 50.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.036 | 0.000 | 21.737 | 0.00 | 7.49 |
| 51.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 21.860 | 0.00 | 0.33 |
| 51.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 21.860 | 0.00 | 1.25 |
| 51.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.037 | 0.000 | 21.860 | 0.00 | 3.74 |
| 52.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 21.982 | 0.00 | 0.33 |
| 52.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 21.982 | 0.00 | 1.25 |
| 52.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.037 | 0.000 | 21.982 | 0.00 | 3.74 |
| 54.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 22.220 | 0.00 | 0.66 |
| 54.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 22.220 | 0.00 | 2.50 |
| 54.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.037 | 0.000 | 22.220 | 0.00 | 7.49 |
| 56.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 22.452 | 0.00 | 0.66 |
| 56.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 22.452 | 0.00 | 2.50 |
| 56.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.037 | 0.000 | 22.452 | 0.00 | 7.49 |
| 58.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 22.678 | 0.00 | 0.66 |
| 58.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 22.678 | 0.00 | 2.50 |
| 58.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.038 | 0.000 | 22.678 | 0.00 | 7.49 |
| 60.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 22.899 | 0.00 | 0.66 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 20

Load Case: 1.2D + 1.6W 105 mph Wind

Iterations 30

Dead Load Factor 1.20

Wind Load Factor 1.60



| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 60.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 22.899 | 0.00 | 2.50 |
| 60.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.038 | 0.000 | 22.899 | 0.00 | 7.49 |
| 62.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 23.114 | 0.00 | 0.66 |
| 62.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 23.114 | 0.00 | 2.50 |
| 62.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.038 | 0.000 | 23.114 | 0.00 | 7.49 |
| 64.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.325 | 0.00 | 0.66 |
| 64.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.325 | 0.00 | 2.50 |
| 64.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.039 | 0.000 | 23.325 | 0.00 | 7.49 |
| 66.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.531 | 0.00 | 0.66 |
| 66.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.531 | 0.00 | 2.50 |
| 66.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.039 | 0.000 | 23.531 | 0.00 | 7.49 |
| 66.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.531 | 0.00 | 0.00 |
| 66.17 | Safety Cable | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.548 | 0.00 | 0.06 |
| 66.17 | Step bolts (ladder) | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.548 | 0.00 | 0.21 |
| 66.17 | 1 5/8" Coax | Yes | 0.17 | 0.000 | 1.98 | 0.03 | 0.00 | 0.039 | 0.000 | 23.548 | 0.00 | 0.64 |
| 66.17 | C6X10.5 Reinforcing | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.548 | 0.00 | 0.00 |
| 68.00 | Safety Cable | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.733 | 0.00 | 0.60 |
| 68.00 | Step bolts (ladder) | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.733 | 0.00 | 2.28 |
| 68.00 | 1 5/8" Coax | Yes | 1.83 | 0.000 | 1.98 | 0.30 | 0.00 | 0.039 | 0.000 | 23.733 | 0.00 | 6.85 |
| 68.00 | C6X10.5 Reinforcing | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.733 | 0.00 | 0.00 |
| 70.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 23.930 | 0.00 | 0.66 |
| 70.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 23.930 | 0.00 | 2.50 |
| 70.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.040 | 0.000 | 23.930 | 0.00 | 7.49 |
| 70.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 23.930 | 0.00 | 0.00 |
| 71.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 24.027 | 0.00 | 0.33 |
| 71.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 24.027 | 0.00 | 1.25 |
| 71.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.040 | 0.000 | 24.027 | 0.00 | 3.74 |
| 71.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 24.027 | 0.00 | 0.00 |
| 72.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 24.123 | 0.00 | 0.33 |
| 72.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 24.123 | 0.00 | 1.25 |
| 72.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.040 | 0.000 | 24.123 | 0.00 | 3.74 |
| 72.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 24.123 | 0.00 | 0.00 |
| 74.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.313 | 0.00 | 0.66 |
| 74.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.313 | 0.00 | 2.50 |
| 74.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.041 | 0.000 | 24.313 | 0.00 | 7.49 |
| 74.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.313 | 0.00 | 0.00 |
| 76.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.499 | 0.00 | 0.66 |
| 76.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.499 | 0.00 | 2.50 |
| 76.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.041 | 0.000 | 24.499 | 0.00 | 7.49 |
| 76.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.499 | 0.00 | 0.00 |
| 78.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.681 | 0.00 | 0.66 |
| 78.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.681 | 0.00 | 2.50 |
| 78.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.041 | 0.000 | 24.681 | 0.00 | 7.49 |
| 78.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.681 | 0.00 | 0.00 |
| 80.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 24.861 | 0.00 | 0.66 |
| 80.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 24.861 | 0.00 | 2.50 |
| 80.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.042 | 0.000 | 24.861 | 0.00 | 7.49 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 21

| | |
|--|----------------------|
| Load Case: 1.2D + 1.6W 105 mph Wind | Iterations 30 |
| Dead Load Factor 1.20 | |
| Wind Load Factor 1.60 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 80.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 24.861 | 0.00 | 0.00 |
| 81.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 24.949 | 0.00 | 0.33 |
| 81.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 24.949 | 0.00 | 1.25 |
| 81.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.042 | 0.000 | 24.949 | 0.00 | 3.74 |
| 81.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 24.949 | 0.00 | 0.00 |
| 82.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 25.037 | 0.00 | 0.33 |
| 82.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 25.037 | 0.00 | 1.25 |
| 82.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.042 | 0.000 | 25.037 | 0.00 | 3.74 |
| 82.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 25.037 | 0.00 | 0.00 |
| 84.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.210 | 0.00 | 0.66 |
| 84.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.210 | 0.00 | 2.50 |
| 84.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.043 | 0.000 | 25.210 | 0.00 | 7.49 |
| 84.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.210 | 0.00 | 0.00 |
| 85.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.295 | 0.00 | 0.33 |
| 85.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.295 | 0.00 | 1.25 |
| 85.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.043 | 0.000 | 25.295 | 0.00 | 3.74 |
| 85.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.295 | 0.00 | 0.00 |
| 86.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.380 | 0.00 | 0.33 |
| 86.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.380 | 0.00 | 1.25 |
| 86.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.043 | 0.000 | 25.380 | 0.00 | 3.74 |
| 86.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.380 | 0.00 | 0.00 |
| 88.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.547 | 0.00 | 0.66 |
| 88.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.547 | 0.00 | 2.50 |
| 88.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.044 | 0.000 | 25.547 | 0.00 | 7.49 |
| 88.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.547 | 0.00 | 0.00 |
| 90.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.711 | 0.00 | 0.66 |
| 90.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.711 | 0.00 | 2.50 |
| 90.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.044 | 0.000 | 25.711 | 0.00 | 7.49 |
| 90.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.711 | 0.00 | 0.00 |
| 91.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.793 | 0.00 | 0.33 |
| 91.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.793 | 0.00 | 1.25 |
| 91.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.044 | 0.000 | 25.793 | 0.00 | 3.74 |
| 91.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.793 | 0.00 | 0.00 |
| 92.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.873 | 0.00 | 0.33 |
| 92.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.873 | 0.00 | 1.25 |
| 92.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.044 | 0.000 | 25.873 | 0.00 | 3.74 |
| 92.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.873 | 0.00 | 0.00 |
| 93.83 | Safety Cable | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 26.019 | 0.00 | 0.60 |
| 93.83 | Step bolts (ladder) | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 26.019 | 0.00 | 2.28 |
| 93.83 | 1 5/8" Coax | Yes | 1.83 | 0.000 | 1.98 | 0.30 | 0.00 | 0.044 | 0.000 | 26.019 | 0.00 | 6.85 |
| 93.83 | C6X10.5 Reinforcing | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 26.019 | 0.00 | 0.00 |
| 94.00 | Safety Cable | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.033 | 0.00 | 0.06 |
| 94.00 | Step bolts (ladder) | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.033 | 0.00 | 0.21 |
| 94.00 | 1 5/8" Coax | Yes | 0.17 | 0.000 | 1.98 | 0.03 | 0.00 | 0.045 | 0.000 | 26.033 | 0.00 | 0.64 |
| 94.00 | C6X10.5 Reinforcing | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.033 | 0.00 | 0.00 |
| 96.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.190 | 0.00 | 0.66 |
| 96.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.190 | 0.00 | 2.50 |

Linear Appurtenance Segment Forces (Factored)

| | | | |
|---------------------------------|-----------------------------------|-------------------------|----------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 | |
| Site Name: Waterford | Exposure: B | | |
| Height: 183.00 (ft) | Crest Height: 0.00 | | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | | |
| Gh: 1.1 | Topography: 1 | Struct Class: II | Page: 22 |



Load Case: 1.2D + 1.6W 105 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 30

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 96.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.045 | 0.000 | 26.190 | 0.00 | 7.49 |
| 96.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.190 | 0.00 | 0.00 |
| 98.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.345 | 0.00 | 0.66 |
| 98.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.345 | 0.00 | 2.50 |
| 98.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.045 | 0.000 | 26.345 | 0.00 | 7.49 |
| 100.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 26.497 | 0.00 | 0.66 |
| 100.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 26.497 | 0.00 | 2.50 |
| 100.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.046 | 0.000 | 26.497 | 0.00 | 7.49 |
| 102.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 26.648 | 0.00 | 0.66 |
| 102.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 26.648 | 0.00 | 2.50 |
| 102.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.046 | 0.000 | 26.648 | 0.00 | 7.49 |
| 104.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 26.796 | 0.00 | 0.66 |
| 104.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 26.796 | 0.00 | 2.50 |
| 104.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.047 | 0.000 | 26.796 | 0.00 | 7.49 |
| 106.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 26.942 | 0.00 | 0.66 |
| 106.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 26.942 | 0.00 | 2.50 |
| 106.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.047 | 0.000 | 26.942 | 0.00 | 7.49 |
| 108.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 27.086 | 0.00 | 0.66 |
| 108.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 27.086 | 0.00 | 2.50 |
| 108.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.048 | 0.000 | 27.086 | 0.00 | 7.49 |
| 110.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 27.229 | 0.00 | 0.66 |
| 110.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 27.229 | 0.00 | 2.50 |
| 110.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.048 | 0.000 | 27.229 | 0.00 | 7.49 |
| 111.17 | Safety Cable | Yes | 1.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 27.311 | 0.00 | 0.38 |
| 111.17 | Step bolts (ladder) | Yes | 1.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 27.311 | 0.00 | 1.46 |
| 111.17 | 1 5/8" Coax | Yes | 1.17 | 0.000 | 1.98 | 0.19 | 0.00 | 0.049 | 0.000 | 27.311 | 0.00 | 4.38 |
| 111.17 | C6X10.5 Reinforcing | Yes | 1.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 27.311 | 0.00 | 0.00 |
| 112.00 | Safety Cable | Yes | 0.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 27.369 | 0.00 | 0.27 |
| 112.00 | Step bolts (ladder) | Yes | 0.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 27.369 | 0.00 | 1.04 |
| 112.00 | 1 5/8" Coax | Yes | 0.83 | 0.000 | 1.98 | 0.14 | 0.00 | 0.049 | 0.000 | 27.369 | 0.00 | 3.11 |
| 112.00 | C6X10.5 Reinforcing | Yes | 0.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 27.369 | 0.00 | 0.00 |
| 114.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.508 | 0.00 | 0.66 |
| 114.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.508 | 0.00 | 2.50 |
| 114.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.050 | 0.000 | 27.508 | 0.00 | 7.49 |
| 114.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.508 | 0.00 | 0.00 |
| 115.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.577 | 0.00 | 0.33 |
| 115.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.577 | 0.00 | 1.25 |
| 115.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.050 | 0.000 | 27.577 | 0.00 | 3.74 |
| 115.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.577 | 0.00 | 0.00 |
| 116.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.645 | 0.00 | 0.33 |
| 116.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.645 | 0.00 | 1.25 |
| 116.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.050 | 0.000 | 27.645 | 0.00 | 3.74 |
| 116.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.645 | 0.00 | 0.00 |
| 118.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.051 | 0.000 | 27.780 | 0.00 | 0.66 |
| 118.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.051 | 0.000 | 27.780 | 0.00 | 2.50 |
| 118.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.051 | 0.000 | 27.780 | 0.00 | 7.49 |
| 118.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.051 | 0.000 | 27.780 | 0.00 | 0.00 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 23

| | |
|--|----------------------|
| Load Case: 1.2D + 1.6W 105 mph Wind | Iterations 30 |
| Dead Load Factor 1.20 | |
| Wind Load Factor 1.60 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 120.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 27.914 | 0.00 | 0.66 |
| 120.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 27.914 | 0.00 | 2.50 |
| 120.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.052 | 0.000 | 27.914 | 0.00 | 7.49 |
| 120.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 27.914 | 0.00 | 0.00 |
| 122.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 28.046 | 0.00 | 0.66 |
| 122.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 28.046 | 0.00 | 2.50 |
| 122.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.052 | 0.000 | 28.046 | 0.00 | 7.49 |
| 122.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 28.046 | 0.00 | 0.00 |
| 123.83 | Safety Cable | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.166 | 0.00 | 0.60 |
| 123.83 | Step bolts (ladder) | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.166 | 0.00 | 2.28 |
| 123.83 | 1 5/8" Coax | Yes | 1.83 | 0.000 | 1.98 | 0.30 | 0.00 | 0.053 | 0.000 | 28.166 | 0.00 | 6.85 |
| 123.83 | C6X10.5 Reinforcing | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.166 | 0.00 | 0.00 |
| 124.00 | Safety Cable | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.177 | 0.00 | 0.06 |
| 124.00 | Step bolts (ladder) | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.177 | 0.00 | 0.21 |
| 124.00 | 1 5/8" Coax | Yes | 0.17 | 0.000 | 1.98 | 0.03 | 0.00 | 0.053 | 0.000 | 28.177 | 0.00 | 0.64 |
| 124.00 | C6X10.5 Reinforcing | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.177 | 0.00 | 0.00 |
| 126.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.306 | 0.00 | 0.66 |
| 126.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.306 | 0.00 | 2.50 |
| 126.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.053 | 0.000 | 28.306 | 0.00 | 7.49 |
| 126.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.306 | 0.00 | 0.00 |
| 128.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.054 | 0.000 | 28.434 | 0.00 | 0.66 |
| 128.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.054 | 0.000 | 28.434 | 0.00 | 2.50 |
| 128.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.054 | 0.000 | 28.434 | 0.00 | 7.49 |
| 130.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.055 | 0.000 | 28.560 | 0.00 | 0.66 |
| 130.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.055 | 0.000 | 28.560 | 0.00 | 2.50 |
| 130.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.055 | 0.000 | 28.560 | 0.00 | 7.49 |
| 132.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 28.685 | 0.00 | 0.66 |
| 132.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 28.685 | 0.00 | 2.50 |
| 132.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.056 | 0.000 | 28.685 | 0.00 | 7.49 |
| 134.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 28.808 | 0.00 | 0.66 |
| 134.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 28.808 | 0.00 | 2.50 |
| 134.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.056 | 0.000 | 28.808 | 0.00 | 7.49 |
| 135.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 28.869 | 0.00 | 0.33 |
| 135.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 28.869 | 0.00 | 1.25 |
| 135.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.057 | 0.000 | 28.869 | 0.00 | 3.74 |
| 136.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 28.930 | 0.00 | 0.33 |
| 136.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 28.930 | 0.00 | 1.25 |
| 136.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.057 | 0.000 | 28.930 | 0.00 | 3.74 |
| 138.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 29.051 | 0.00 | 0.66 |
| 138.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 29.051 | 0.00 | 2.50 |
| 138.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.057 | 0.000 | 29.051 | 0.00 | 7.49 |
| 140.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.058 | 0.000 | 29.171 | 0.00 | 0.66 |
| 140.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.058 | 0.000 | 29.171 | 0.00 | 2.50 |
| 140.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.058 | 0.000 | 29.171 | 0.00 | 7.49 |
| 142.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 29.289 | 0.00 | 0.66 |
| 142.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 29.289 | 0.00 | 2.50 |
| 142.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.059 | 0.000 | 29.289 | 0.00 | 7.49 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 24

Load Case: 1.2D + 1.6W 105 mph Wind

Iterations 30

Dead Load Factor 1.20

Wind Load Factor 1.60



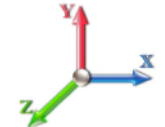
| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 143.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 29.348 | 0.00 | 0.33 |
| 143.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 29.348 | 0.00 | 1.25 |
| 143.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.059 | 0.000 | 29.348 | 0.00 | 3.74 |
| 144.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 29.407 | 0.00 | 0.33 |
| 144.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 29.407 | 0.00 | 1.25 |
| 144.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.060 | 0.000 | 29.407 | 0.00 | 3.74 |
| 146.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 29.523 | 0.00 | 0.66 |
| 146.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 29.523 | 0.00 | 2.50 |
| 146.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.060 | 0.000 | 29.523 | 0.00 | 7.49 |
| 148.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.061 | 0.000 | 29.638 | 0.00 | 0.66 |
| 148.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.061 | 0.000 | 29.638 | 0.00 | 2.50 |
| 148.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.061 | 0.000 | 29.638 | 0.00 | 7.49 |
| 150.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.062 | 0.000 | 29.752 | 0.00 | 0.66 |
| 150.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.062 | 0.000 | 29.752 | 0.00 | 2.50 |
| 150.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.062 | 0.000 | 29.752 | 0.00 | 7.49 |
| 152.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.063 | 0.000 | 29.865 | 0.00 | 0.66 |
| 152.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.063 | 0.000 | 29.865 | 0.00 | 2.50 |
| 152.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.063 | 0.000 | 29.865 | 0.00 | 7.49 |
| 153.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 29.921 | 0.00 | 0.33 |
| 153.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 29.921 | 0.00 | 1.25 |
| 153.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.064 | 0.000 | 29.921 | 0.00 | 3.74 |
| 154.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 29.976 | 0.00 | 0.33 |
| 154.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 29.976 | 0.00 | 1.25 |
| 154.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.064 | 0.000 | 29.976 | 0.00 | 3.74 |
| 156.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.065 | 0.000 | 30.087 | 0.00 | 0.66 |
| 156.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.065 | 0.000 | 30.087 | 0.00 | 2.50 |
| 156.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.065 | 0.000 | 30.087 | 0.00 | 7.49 |
| 158.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.066 | 0.000 | 30.197 | 0.00 | 0.66 |
| 158.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.066 | 0.000 | 30.197 | 0.00 | 2.50 |
| 158.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.066 | 0.000 | 30.197 | 0.00 | 7.49 |
| 160.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.067 | 0.000 | 30.305 | 0.00 | 0.66 |
| 160.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.067 | 0.000 | 30.305 | 0.00 | 2.50 |
| 160.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.067 | 0.000 | 30.305 | 0.00 | 7.49 |
| 162.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.068 | 0.000 | 30.413 | 0.00 | 0.66 |
| 162.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.068 | 0.000 | 30.413 | 0.00 | 2.50 |
| 162.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.068 | 0.000 | 30.413 | 0.00 | 7.49 |
| 163.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.069 | 0.000 | 30.467 | 0.00 | 0.33 |
| 163.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.069 | 0.000 | 30.467 | 0.00 | 1.25 |
| 163.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.069 | 0.000 | 30.467 | 0.00 | 3.74 |
| 164.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.070 | 0.000 | 30.520 | 0.00 | 0.33 |
| 164.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.070 | 0.000 | 30.520 | 0.00 | 1.25 |
| 164.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.070 | 0.000 | 30.520 | 0.00 | 3.74 |
| 166.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.071 | 0.000 | 30.626 | 0.00 | 0.66 |
| 166.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.071 | 0.000 | 30.626 | 0.00 | 2.50 |
| 166.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.071 | 0.000 | 30.626 | 0.00 | 7.49 |
| 168.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.072 | 0.000 | 30.731 | 0.00 | 0.66 |
| 168.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.072 | 0.000 | 30.731 | 0.00 | 2.50 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 25

| | |
|--|---|
| Load Case: 1.2D + 1.6W 105 mph Wind | Iterations 30 |
| Dead Load Factor 1.20 |  |
| Wind Load Factor 1.60 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|----------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|------------|----------------|
| 168.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.072 | 0.000 | 30.731 | 0.00 | 7.49 |
| 170.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.073 | 0.000 | 30.835 | 0.00 | 0.66 |
| 170.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.073 | 0.000 | 30.835 | 0.00 | 2.50 |
| 170.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.073 | 0.000 | 30.835 | 0.00 | 7.49 |
| 172.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.075 | 0.000 | 30.938 | 0.00 | 0.66 |
| 172.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.075 | 0.000 | 30.938 | 0.00 | 2.50 |
| 172.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.075 | 0.000 | 30.938 | 0.00 | 7.49 |
| 173.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.076 | 0.000 | 30.989 | 0.00 | 0.33 |
| 173.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.076 | 0.000 | 30.989 | 0.00 | 1.25 |
| 173.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.076 | 0.000 | 30.989 | 0.00 | 3.74 |
| 174.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.041 | 0.00 | 0.33 |
| 174.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.041 | 0.00 | 1.25 |
| 176.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.142 | 0.00 | 0.66 |
| 176.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.142 | 0.00 | 2.50 |
| 178.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.243 | 0.00 | 0.66 |
| 178.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.243 | 0.00 | 2.50 |
| 180.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.343 | 0.00 | 0.66 |
| 180.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.343 | 0.00 | 2.50 |
| 181.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.392 | 0.00 | 0.33 |
| 181.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.392 | 0.00 | 1.25 |
| 182.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.442 | 0.00 | 0.33 |
| 182.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.442 | 0.00 | 1.25 |
| 183.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.491 | 0.00 | 0.33 |
| 183.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.491 | 0.00 | 1.25 |
| Totals: | | | | | | | | | | | 0.0 | 936.0 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



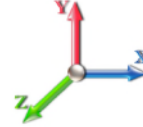
Page: 26

Load Case: 1.2D + 1.6W 105 mph Wind

Iterations 30

Dead Load Factor 1.20

Wind Load Factor 1.60



| 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 Sway (deg) | Rotation Twist (deg) | Stress Ratio |
|---------------|------------------|------------------|---------------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|---------------------|----------------------|--------------|
| 0.00 | -62.64 | -38.62 | 0.00 | -5031.3 | 0.00 | 5031.32 | 5190.16 | 2595.08 | 13702.9 | 6861.66 | 0.00 | 0.000 | 0.000 | 0.746 |
| 2.00 | -61.86 | -38.47 | 0.00 | -4954.0 | 0.00 | 4954.08 | 5174.50 | 2587.25 | 13560.7 | 6790.43 | 0.02 | -0.072 | 0.000 | 0.742 |
| 4.00 | -61.09 | -38.31 | 0.00 | -4877.1 | 0.00 | 4877.15 | 5158.51 | 2579.25 | 13418.2 | 6719.08 | 0.06 | -0.144 | 0.000 | 0.738 |
| 6.00 | -60.32 | -38.15 | 0.00 | -4800.5 | 0.00 | 4800.54 | 5142.18 | 2571.09 | 13275.4 | 6647.61 | 0.14 | -0.216 | 0.000 | 0.734 |
| 8.00 | -59.56 | -38.00 | 0.00 | -4724.2 | 0.00 | 4724.23 | 5125.52 | 2562.76 | 13132.5 | 6576.03 | 0.24 | -0.289 | 0.000 | 0.730 |
| 10.00 | -58.80 | -37.84 | 0.00 | -4648.2 | 0.00 | 4648.24 | 5108.53 | 2554.27 | 12989.4 | 6504.36 | 0.38 | -0.363 | 0.000 | 0.726 |
| 12.00 | -58.05 | -37.69 | 0.00 | -4572.5 | 0.00 | 4572.55 | 5091.21 | 2545.61 | 12846.0 | 6432.60 | 0.55 | -0.437 | 0.000 | 0.722 |
| 14.00 | -57.30 | -37.53 | 0.00 | -4497.1 | 0.00 | 4497.18 | 5073.56 | 2536.78 | 12702.6 | 6360.75 | 0.75 | -0.511 | 0.000 | 0.719 |
| 16.00 | -56.56 | -37.38 | 0.00 | -4422.1 | 0.00 | 4422.11 | 5055.57 | 2527.79 | 12559.0 | 6288.85 | 0.98 | -0.586 | 0.000 | 0.715 |
| 18.00 | -55.82 | -37.23 | 0.00 | -4347.3 | 0.00 | 4347.35 | 5037.25 | 2518.63 | 12415.3 | 6216.88 | 1.24 | -0.662 | 0.000 | 0.711 |
| 20.00 | -55.09 | -37.07 | 0.00 | -4272.9 | 0.00 | 4272.90 | 5018.60 | 2509.30 | 12271.4 | 6144.86 | 1.54 | -0.738 | 0.000 | 0.707 |
| 22.00 | -54.36 | -36.92 | 0.00 | -4198.7 | 0.00 | 4198.75 | 4999.62 | 2499.81 | 12127.5 | 6072.81 | 1.86 | -0.814 | 0.000 | 0.702 |
| 24.00 | -53.64 | -36.77 | 0.00 | -4124.9 | 0.00 | 4124.91 | 4980.31 | 2490.15 | 11983.6 | 6000.72 | 2.22 | -0.891 | 0.000 | 0.698 |
| 26.00 | -52.92 | -36.62 | 0.00 | -4051.3 | 0.00 | 4051.38 | 4960.66 | 2480.33 | 11839.6 | 5928.62 | 2.61 | -0.968 | 0.000 | 0.694 |
| 28.00 | -52.20 | -36.46 | 0.00 | -3978.1 | 0.00 | 3978.15 | 4940.68 | 2470.34 | 11695.6 | 5856.50 | 3.03 | -1.046 | 0.000 | 0.690 |
| 30.00 | -51.49 | -36.31 | 0.00 | -3905.2 | 0.00 | 3905.22 | 4920.37 | 2460.19 | 11551.6 | 5784.39 | 3.49 | -1.125 | 0.000 | 0.686 |
| 32.00 | -50.79 | -36.16 | 0.00 | -3832.6 | 0.00 | 3832.60 | 4899.73 | 2449.87 | 11407.6 | 5712.28 | 3.98 | -1.203 | 0.000 | 0.682 |
| 34.00 | -50.09 | -36.00 | 0.00 | -3760.2 | 0.00 | 3760.29 | 4878.76 | 2439.38 | 11263.6 | 5640.19 | 4.50 | -1.283 | 0.000 | 0.677 |
| 36.00 | -49.39 | -35.84 | 0.00 | -3688.2 | 0.00 | 3688.29 | 4857.45 | 2428.72 | 11119.7 | 5568.14 | 5.06 | -1.362 | 0.000 | 0.673 |
| 38.00 | -48.70 | -35.67 | 0.00 | -3616.6 | 0.00 | 3616.62 | 4835.81 | 2417.91 | 10975.9 | 5496.12 | 5.64 | -1.443 | 0.000 | 0.668 |
| 40.00 | -48.03 | -35.49 | 0.00 | -3545.2 | 0.00 | 3545.27 | 4813.84 | 2406.92 | 10832.2 | 5424.15 | 6.27 | -1.523 | 0.000 | 0.664 |
| 41.00 | -47.69 | -35.40 | 0.00 | -3509.7 | 0.00 | 3509.79 | 4802.73 | 2401.36 | 10760.3 | 5388.18 | 6.59 | -1.564 | 0.000 | 0.662 |
| 42.00 | -47.06 | -35.33 | 0.00 | -3474.3 | 0.00 | 3474.38 | 4791.54 | 2395.77 | 10688.5 | 5352.24 | 6.92 | -1.605 | 0.000 | 0.659 |
| 44.00 | -45.86 | -35.14 | 0.00 | -3403.7 | 0.00 | 3403.73 | 4768.90 | 2384.45 | 10545.1 | 5280.39 | 7.61 | -1.686 | 0.000 | 0.654 |
| 46.00 | -44.66 | -34.94 | 0.00 | -3333.4 | 0.00 | 3333.46 | 4745.94 | 2372.97 | 10401.7 | 5208.63 | 8.34 | -1.768 | 0.000 | 0.650 |
| 48.00 | -43.47 | -34.74 | 0.00 | -3263.5 | 0.00 | 3263.58 | 4759.60 | 2379.80 | 10486.7 | 5251.18 | 9.10 | -1.851 | 0.000 | 0.631 |
| 50.00 | -42.82 | -34.54 | 0.00 | -3194.0 | 0.00 | 3194.09 | 4736.50 | 2368.25 | 10343.5 | 5179.45 | 9.89 | -1.934 | 0.000 | 0.626 |
| 51.00 | -42.48 | -34.45 | 0.00 | -3159.5 | 0.00 | 3159.55 | 4724.82 | 2362.41 | 10271.9 | 5143.62 | 10.30 | -1.974 | 0.000 | 0.623 |
| 51.00 | -42.48 | -34.45 | 0.00 | -3159.5 | 0.00 | 3159.55 | 4064.30 | 2032.15 | 8835.99 | 4424.56 | 10.30 | -1.974 | 0.000 | 0.725 |
| 52.00 | -42.14 | -34.37 | 0.00 | -3125.1 | 0.00 | 3125.11 | 4053.20 | 2026.60 | 8772.35 | 4392.70 | 10.72 | -2.014 | 0.000 | 0.722 |
| 54.00 | -41.49 | -34.18 | 0.00 | -3056.3 | 0.00 | 3056.37 | 4030.83 | 2015.41 | 8645.34 | 4329.09 | 11.58 | -2.094 | 0.000 | 0.717 |
| 56.00 | -40.83 | -33.99 | 0.00 | -2988.0 | 0.00 | 2988.02 | 4008.20 | 2004.10 | 8518.66 | 4265.66 | 12.47 | -2.175 | 0.000 | 0.711 |
| 58.00 | -40.19 | -33.79 | 0.00 | -2920.0 | 0.00 | 2920.05 | 3985.33 | 1992.66 | 8392.33 | 4202.40 | 13.40 | -2.256 | 0.000 | 0.705 |
| 60.00 | -39.55 | -33.60 | 0.00 | -2852.4 | 0.00 | 2852.46 | 3962.20 | 1981.10 | 8266.38 | 4139.33 | 14.36 | -2.337 | 0.000 | 0.699 |
| 62.00 | -38.91 | -33.40 | 0.00 | -2785.2 | 0.00 | 2785.27 | 3938.82 | 1969.41 | 8140.81 | 4076.46 | 15.36 | -2.419 | 0.000 | 0.693 |
| 64.00 | -38.28 | -33.20 | 0.00 | -2718.4 | 0.00 | 2718.48 | 3915.19 | 1957.60 | 8015.64 | 4013.78 | 16.39 | -2.501 | 0.000 | 0.687 |
| 66.00 | -37.68 | -32.98 | 0.00 | -2652.0 | 0.00 | 2652.08 | 3891.31 | 1945.66 | 7890.88 | 3951.30 | 17.46 | -2.583 | 0.000 | 0.681 |
| 66.17 | -37.61 | -32.98 | 0.00 | -2646.4 | 0.00 | 2646.47 | 3889.27 | 1944.64 | 7880.29 | 3946.00 | 17.55 | -2.590 | 0.000 | 0.499 |
| 68.00 | -37.05 | -32.78 | 0.00 | -2586.1 | 0.00 | 2586.13 | 3867.19 | 1933.59 | 7766.55 | 3889.05 | 18.55 | -2.645 | 0.000 | 0.493 |
| 70.00 | -36.46 | -32.56 | 0.00 | -2520.5 | 0.00 | 2520.57 | 3842.81 | 1921.40 | 7642.66 | 3827.01 | 19.67 | -2.706 | 0.000 | 0.487 |
| 71.00 | -36.16 | -32.45 | 0.00 | -2488.0 | 0.00 | 2488.01 | 3830.52 | 1915.26 | 7580.89 | 3796.08 | 20.24 | -2.736 | 0.000 | 0.484 |
| 71.00 | -36.16 | -32.45 | 0.00 | -2488.0 | 0.00 | 2488.01 | 3467.89 | 1733.95 | 6863.13 | 3436.66 | 20.24 | -2.736 | 0.000 | 0.535 |
| 72.00 | -35.85 | -32.35 | 0.00 | -2455.5 | 0.00 | 2455.56 | 3456.29 | 1728.14 | 6806.46 | 3408.29 | 20.82 | -2.767 | 0.000 | 0.531 |
| 74.00 | -35.26 | -32.13 | 0.00 | -2390.8 | 0.00 | 2390.86 | 3432.92 | 1716.46 | 6693.50 | 3351.73 | 21.99 | -2.827 | 0.000 | 0.525 |
| 76.00 | -34.67 | -31.92 | 0.00 | -2326.6 | 0.00 | 2326.60 | 3409.33 | 1704.67 | 6581.05 | 3295.42 | 23.19 | -2.888 | 0.000 | 0.517 |
| 78.00 | -34.09 | -31.70 | 0.00 | -2262.7 | 0.00 | 2262.77 | 3385.54 | 1692.77 | 6469.11 | 3239.36 | 24.41 | -2.948 | 0.000 | 0.510 |
| 80.00 | -33.52 | -31.47 | 0.00 | -2199.3 | 0.00 | 2199.37 | 3361.54 | 1680.77 | 6357.71 | 3183.58 | 25.66 | -3.009 | 0.000 | 0.503 |
| 81.00 | -33.23 | -31.36 | 0.00 | -2167.9 | 0.00 | 2167.90 | 3349.46 | 1674.73 | 6302.21 | 3155.79 | 26.29 | -3.039 | 0.000 | 0.499 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |
| | | Page: 27 |



| | | | | | | | | | | | | | | |
|--------|--------|--------|------|---------|------|---------|---------|---------|---------|---------|--------|--------|-------|-------|
| 81.00 | -33.23 | -31.36 | 0.00 | -2167.9 | 0.00 | 2167.90 | 2964.88 | 1482.44 | 5593.85 | 2801.08 | 26.29 | -3.039 | 0.000 | 0.471 |
| 82.00 | -32.97 | -31.27 | 0.00 | -2136.5 | 0.00 | 2136.53 | 2956.03 | 1478.01 | 5548.33 | 2778.29 | 26.93 | -3.069 | 0.000 | 0.529 |
| 84.00 | -32.48 | -31.05 | 0.00 | -2074.0 | 0.00 | 2074.00 | 2938.12 | 1469.06 | 5457.44 | 2732.78 | 28.23 | -3.137 | 0.000 | 0.520 |
| 85.00 | -32.23 | -30.94 | 0.00 | -2042.9 | 0.00 | 2042.95 | 2929.07 | 1464.54 | 5412.08 | 2710.06 | 28.89 | -3.171 | 0.000 | 0.515 |
| 86.00 | -31.79 | -30.84 | 0.00 | -2012.0 | 0.00 | 2012.01 | 2919.96 | 1459.98 | 5366.77 | 2687.37 | 29.56 | -3.206 | 0.000 | 0.507 |
| 88.00 | -30.94 | -30.60 | 0.00 | -1950.3 | 0.00 | 1950.34 | 2901.53 | 1450.76 | 5276.32 | 2642.08 | 30.92 | -3.273 | 0.000 | 0.497 |
| 90.00 | -30.10 | -30.36 | 0.00 | -1889.1 | 0.00 | 1889.14 | 2882.84 | 1441.42 | 5186.12 | 2596.92 | 32.30 | -3.340 | 0.000 | 0.488 |
| 91.00 | -29.68 | -30.24 | 0.00 | -1858.7 | 0.00 | 1858.78 | 2898.35 | 1449.17 | 5260.87 | 2634.34 | 33.01 | -3.373 | 0.000 | 0.493 |
| 92.00 | -29.43 | -30.14 | 0.00 | -1828.5 | 0.00 | 1828.54 | 2889.01 | 1444.51 | 5215.76 | 2611.76 | 33.72 | -3.407 | 0.000 | 0.474 |
| 93.83 | -29.00 | -29.93 | 0.00 | -1773.3 | 0.00 | 1773.39 | 2871.76 | 1435.88 | 5133.38 | 2570.50 | 35.03 | -3.466 | 0.000 | 0.466 |
| 93.83 | -29.00 | -29.93 | 0.00 | -1773.3 | 0.00 | 1773.39 | 2871.76 | 1435.88 | 5133.38 | 2570.50 | 35.03 | -3.466 | 0.000 | 0.466 |
| 94.00 | -28.94 | -29.93 | 0.00 | -1768.3 | 0.00 | 1768.30 | 2870.15 | 1435.07 | 5125.73 | 2566.68 | 35.16 | -3.471 | 0.000 | 0.699 |
| 96.00 | -28.45 | -29.73 | 0.00 | -1708.4 | 0.00 | 1708.44 | 2851.02 | 1425.51 | 5035.98 | 2521.73 | 36.63 | -3.567 | 0.000 | 0.688 |
| 98.00 | -27.96 | -29.53 | 0.00 | -1648.9 | 0.00 | 1648.98 | 2831.62 | 1415.81 | 4946.52 | 2476.93 | 38.15 | -3.664 | 0.000 | 0.676 |
| 100.00 | -27.47 | -29.33 | 0.00 | -1589.9 | 0.00 | 1589.92 | 2811.97 | 1405.98 | 4857.35 | 2432.29 | 39.70 | -3.759 | 0.000 | 0.664 |
| 102.00 | -27.00 | -29.13 | 0.00 | -1531.2 | 0.00 | 1531.26 | 2792.05 | 1396.03 | 4768.51 | 2387.80 | 41.30 | -3.855 | 0.000 | 0.651 |
| 104.00 | -26.52 | -28.93 | 0.00 | -1473.0 | 0.00 | 1473.01 | 2771.87 | 1385.94 | 4680.00 | 2343.48 | 42.93 | -3.950 | 0.000 | 0.639 |
| 106.00 | -26.05 | -28.74 | 0.00 | -1415.1 | 0.00 | 1415.15 | 2751.43 | 1375.71 | 4591.84 | 2299.33 | 44.60 | -4.045 | 0.000 | 0.625 |
| 108.00 | -25.59 | -28.55 | 0.00 | -1357.6 | 0.00 | 1357.68 | 2730.72 | 1365.36 | 4504.04 | 2255.37 | 46.32 | -4.139 | 0.000 | 0.612 |
| 110.00 | -25.13 | -28.35 | 0.00 | -1300.5 | 0.00 | 1300.59 | 2709.75 | 1354.88 | 4416.62 | 2211.59 | 48.07 | -4.232 | 0.000 | 0.598 |
| 111.17 | -24.87 | -28.23 | 0.00 | -1267.4 | 0.00 | 1267.42 | 2697.36 | 1348.68 | 4365.66 | 2186.08 | 49.11 | -4.287 | 0.000 | 0.470 |
| 112.00 | -24.68 | -28.16 | 0.00 | -1243.9 | 0.00 | 1243.99 | 2688.52 | 1344.26 | 4329.60 | 2168.02 | 49.86 | -4.317 | 0.000 | 0.465 |
| 114.00 | -24.24 | -27.96 | 0.00 | -1187.6 | 0.00 | 1187.67 | 2667.03 | 1333.51 | 4242.98 | 2124.64 | 51.69 | -4.390 | 0.000 | 0.452 |
| 115.00 | -24.02 | -27.85 | 0.00 | -1159.7 | 0.00 | 1159.71 | 2656.18 | 1328.09 | 4199.83 | 2103.04 | 52.61 | -4.427 | 0.000 | 0.435 |
| 115.00 | -24.02 | -27.85 | 0.00 | -1159.7 | 0.00 | 1159.71 | 1951.15 | 975.57 | 3095.05 | 1549.82 | 52.61 | -4.427 | 0.000 | 0.474 |
| 116.00 | -23.83 | -27.76 | 0.00 | -1131.8 | 0.00 | 1131.86 | 1944.57 | 972.29 | 3065.67 | 1535.11 | 53.54 | -4.462 | 0.000 | 0.550 |
| 118.00 | -23.45 | -27.56 | 0.00 | -1076.3 | 0.00 | 1076.34 | 1931.24 | 965.62 | 3006.98 | 1505.73 | 55.42 | -4.544 | 0.000 | 0.532 |
| 120.00 | -23.08 | -27.36 | 0.00 | -1021.2 | 0.00 | 1021.23 | 1917.63 | 958.82 | 2948.42 | 1476.40 | 57.34 | -4.624 | 0.000 | 0.513 |
| 122.00 | -22.71 | -27.16 | 0.00 | -966.51 | 0.00 | 966.51 | 1903.77 | 951.88 | 2889.98 | 1447.14 | 59.30 | -4.702 | 0.000 | 0.493 |
| 123.83 | -22.40 | -26.96 | 0.00 | -916.82 | 0.00 | 916.82 | 1890.85 | 945.43 | 2836.64 | 1420.43 | 61.11 | -4.773 | 0.000 | 0.475 |
| 123.83 | -22.40 | -26.96 | 0.00 | -916.82 | 0.00 | 916.82 | 1890.85 | 945.43 | 2836.64 | 1420.43 | 61.11 | -4.773 | 0.000 | 0.475 |
| 124.00 | -22.34 | -26.97 | 0.00 | -912.23 | 0.00 | 912.23 | 1889.64 | 944.82 | 2831.69 | 1417.95 | 61.28 | -4.779 | 0.000 | 0.656 |
| 126.00 | -21.97 | -26.78 | 0.00 | -858.30 | 0.00 | 858.30 | 1875.25 | 937.63 | 2773.56 | 1388.84 | 63.30 | -4.883 | 0.000 | 0.631 |
| 128.00 | -21.60 | -26.59 | 0.00 | -804.75 | 0.00 | 804.75 | 1860.60 | 930.30 | 2715.62 | 1359.83 | 65.37 | -4.985 | 0.000 | 0.604 |
| 130.00 | -21.24 | -26.40 | 0.00 | -751.58 | 0.00 | 751.58 | 1845.69 | 922.84 | 2657.86 | 1330.91 | 67.48 | -5.084 | 0.000 | 0.577 |
| 132.00 | -20.66 | -26.19 | 0.00 | -698.78 | 0.00 | 698.78 | 1830.51 | 915.25 | 2600.31 | 1302.09 | 69.63 | -5.179 | 0.000 | 0.549 |
| 134.00 | -20.09 | -25.97 | 0.00 | -646.41 | 0.00 | 646.41 | 1815.07 | 907.53 | 2542.99 | 1273.39 | 71.81 | -5.272 | 0.000 | 0.520 |
| 135.00 | -19.80 | -25.86 | 0.00 | -620.44 | 0.00 | 620.44 | 1823.79 | 911.89 | 2575.21 | 1289.52 | 72.92 | -5.317 | 0.000 | 0.493 |
| 136.00 | -19.62 | -25.77 | 0.00 | -594.59 | 0.00 | 594.59 | 1816.04 | 908.02 | 2546.57 | 1275.18 | 74.04 | -5.362 | 0.000 | 0.478 |
| 138.00 | -19.28 | -25.57 | 0.00 | -543.05 | 0.00 | 543.05 | 1800.35 | 900.18 | 2489.47 | 1246.58 | 76.30 | -5.443 | 0.000 | 0.447 |
| 140.00 | -18.94 | -25.38 | 0.00 | -491.90 | 0.00 | 491.90 | 1784.41 | 892.20 | 2432.62 | 1218.12 | 78.59 | -5.520 | 0.000 | 0.415 |
| 142.00 | -18.62 | -25.18 | 0.00 | -441.15 | 0.00 | 441.15 | 1768.19 | 884.10 | 2376.04 | 1189.79 | 80.92 | -5.593 | 0.000 | 0.382 |
| 143.00 | -15.48 | -19.90 | 0.00 | -415.97 | 0.00 | 415.97 | 1759.99 | 879.99 | 2347.86 | 1175.68 | 82.09 | -5.628 | 0.000 | 0.363 |
| 144.00 | -15.33 | -19.80 | 0.00 | -396.07 | 0.00 | 396.07 | 1751.72 | 875.86 | 2319.75 | 1161.60 | 83.28 | -5.661 | 0.000 | 0.350 |
| 146.00 | -15.05 | -19.61 | 0.00 | -356.47 | 0.00 | 356.47 | 1734.98 | 867.49 | 2263.76 | 1133.56 | 85.66 | -5.725 | 0.000 | 0.324 |
| 148.00 | -14.77 | -19.41 | 0.00 | -317.25 | 0.00 | 317.25 | 1717.98 | 858.99 | 2208.08 | 1105.68 | 88.07 | -5.785 | 0.000 | 0.296 |
| 150.00 | -14.49 | -19.22 | 0.00 | -278.42 | 0.00 | 278.42 | 1700.72 | 850.36 | 2152.74 | 1077.97 | 90.50 | -5.840 | 0.000 | 0.267 |
| 152.00 | -14.23 | -19.02 | 0.00 | -239.99 | 0.00 | 239.99 | 1683.20 | 841.60 | 2097.74 | 1050.43 | 92.95 | -5.890 | 0.000 | 0.237 |
| 153.00 | -10.84 | -13.09 | 0.00 | -220.96 | 0.00 | 220.96 | 1674.33 | 837.17 | 2070.37 | 1036.72 | 94.19 | -5.914 | 0.000 | 0.220 |
| 154.00 | -10.72 | -12.99 | 0.00 | -207.87 | 0.00 | 207.87 | 1665.41 | 832.70 | 2043.10 | 1023.07 | 95.43 | -5.936 | 0.000 | 0.210 |
| 156.00 | -10.49 | -12.80 | 0.00 | -181.88 | 0.00 | 181.88 | 1647.36 | 823.68 | 1988.83 | 995.90 | 97.92 | -5.978 | 0.000 | 0.189 |
| 158.00 | -8.60 | -11.26 | 0.00 | -156.28 | 0.00 | 156.28 | 1629.04 | 814.52 | 1934.96 | 968.92 | 100.43 | -6.015 | 0.000 | 0.167 |
| 160.00 | -8.38 | -11.07 | 0.00 | -133.75 | 0.00 | 133.75 | 1610.47 | 805.23 | 1881.50 | 942.15 | 102.95 | -6.049 | 0.000 | 0.147 |
| 162.00 | -8.17 | -10.89 | 0.00 | -111.60 | 0.00 | 111.60 | 1591.63 | 795.82 | 1828.46 | 915.59 | 105.49 | -6.080 | 0.000 | 0.127 |
| 163.00 | -6.20 | -8.86 | 0.00 | -100.71 | 0.00 | 100.71 | 1582.11 | 791.06 | 1802.10 | 902.39 | 106.76 | -6.093 | 0.000 | 0.116 |
| 164.00 | -6.10 | -8.77 | 0.00 | -91.85 | 0.00 | 91.85 | 1572.53 | 786.27 | 1775.86 | 889.25 | 108.03 | -6.106 | 0.000 | 0.107 |
| 166.00 | -5.90 | -8.59 | 0.00 | -74.31 | 0.00 | 74.31 | 1553.17 | 776.58 | 1723.71 | 863.13 | 110.59 | -6.129 | 0.000 | 0.090 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |
| | | Page: 28 |



| | | | | | | | | | | | | | | |
|--------|-------|-------|------|--------|------|-------|---------|--------|---------|--------|--------|--------|-------|-------|
| 168.00 | -5.71 | -8.41 | 0.00 | -57.14 | 0.00 | 57.14 | 1533.54 | 766.77 | 1672.03 | 837.26 | 113.16 | -6.148 | 0.000 | 0.072 |
| 170.00 | -5.51 | -8.23 | 0.00 | -40.32 | 0.00 | 40.32 | 1513.65 | 756.83 | 1620.83 | 811.62 | 115.73 | -6.162 | 0.000 | 0.053 |
| 172.00 | -5.32 | -8.05 | 0.00 | -23.87 | 0.00 | 23.87 | 1493.50 | 746.75 | 1570.13 | 786.23 | 118.31 | -6.173 | 0.000 | 0.034 |
| 173.00 | -2.41 | -2.21 | 0.00 | -15.82 | 0.00 | 15.82 | 1483.33 | 741.66 | 1544.98 | 773.64 | 119.60 | -6.176 | 0.000 | 0.022 |
| 174.00 | -2.33 | -2.13 | 0.00 | -13.61 | 0.00 | 13.61 | 1473.09 | 736.54 | 1519.95 | 761.10 | 120.89 | -6.179 | 0.000 | 0.019 |
| 176.00 | -2.18 | -1.96 | 0.00 | -9.35 | 0.00 | 9.35 | 1452.41 | 726.20 | 1470.30 | 736.24 | 123.48 | -6.183 | 0.000 | 0.014 |
| 178.00 | -2.04 | -1.79 | 0.00 | -5.44 | 0.00 | 5.44 | 1427.85 | 713.93 | 1417.60 | 709.85 | 126.06 | -6.185 | 0.000 | 0.009 |
| 180.00 | -1.90 | -1.63 | 0.00 | -1.85 | 0.00 | 1.85 | 1400.09 | 700.05 | 1362.74 | 682.38 | 128.65 | -6.187 | 0.000 | 0.004 |
| 180.00 | -1.90 | -1.63 | 0.00 | -1.85 | 0.00 | 1.85 | 678.42 | 339.21 | 662.23 | 396.30 | 128.65 | -6.187 | 0.000 | 0.007 |
| 181.00 | -0.16 | -0.15 | 0.00 | -0.23 | 0.00 | 0.23 | 678.42 | 339.21 | 662.23 | 396.30 | 129.94 | -6.187 | 0.000 | 0.001 |
| 182.00 | -0.08 | -0.08 | 0.00 | -0.08 | 0.00 | 0.08 | 678.42 | 339.21 | 662.23 | 396.30 | 131.24 | -6.187 | 0.000 | 0.000 |
| 183.00 | 0.00 | -0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 678.42 | 339.21 | 662.23 | 396.30 | 132.53 | -6.187 | 0.000 | 0.000 |

Wind Loading - Shaft

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 29

Load Case: 0.9D + 1.6W 105 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 30

| Elev (ft) | Description | Kzt | Kz | qz (psf) | qzGh (psf) | C (mph-ft) | Cf | Ice Thick (in) | Tributary (ft) | Aa (sf) | CfAa (sf) | Wind Force X (lb) | Dead Load Ice (lb) | Tot Dead Load (lb) |
|-----------|-----------------|------|------|----------|------------|------------|-------|----------------|----------------|---------|-----------|-------------------|--------------------|--------------------|
| 0.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 479.47 | 0.650 | 0.000 | 0.00 | 0.000 | 0.00 | 0.0 | 0.0 | 0.0 |
| 2.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 475.97 | 0.650 | 0.000 | 2.00 | 10.876 | 7.07 | 233.5 | 0.0 | 465.8 |
| 4.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 472.47 | 0.650 | 0.000 | 2.00 | 10.796 | 7.02 | 231.8 | 0.0 | 462.3 |
| 6.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 468.97 | 0.650 | 0.000 | 2.00 | 10.717 | 6.97 | 230.1 | 0.0 | 458.9 |
| 8.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 465.47 | 0.650 | 0.000 | 2.00 | 10.637 | 6.91 | 228.4 | 0.0 | 455.5 |
| 10.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 461.97 | 0.650 | 0.000 | 2.00 | 10.557 | 6.86 | 226.7 | 0.0 | 452.0 |
| 12.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 458.47 | 0.650 | 0.000 | 2.00 | 10.478 | 6.81 | 225.0 | 0.0 | 448.6 |
| 14.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 454.97 | 0.650 | 0.000 | 2.00 | 10.398 | 6.76 | 223.3 | 0.0 | 445.2 |
| 16.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 451.47 | 0.650 | 0.000 | 2.00 | 10.318 | 6.71 | 221.5 | 0.0 | 441.7 |
| 18.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 447.97 | 0.650 | 0.000 | 2.00 | 10.239 | 6.66 | 219.8 | 0.0 | 438.3 |
| 20.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 444.47 | 0.650 | 0.000 | 2.00 | 10.159 | 6.60 | 218.1 | 0.0 | 434.9 |
| 22.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 440.97 | 0.650 | 0.000 | 2.00 | 10.079 | 6.55 | 216.4 | 0.0 | 431.4 |
| 24.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 437.47 | 0.650 | 0.000 | 2.00 | 9.999 | 6.50 | 214.7 | 0.0 | 428.0 |
| 26.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 433.97 | 0.650 | 0.000 | 2.00 | 9.920 | 6.45 | 213.0 | 0.0 | 424.6 |
| 28.00 | | 1.00 | 0.70 | 18.769 | 20.65 | 430.47 | 0.650 | 0.000 | 2.00 | 9.840 | 6.40 | 211.3 | 0.0 | 421.1 |
| 30.00 | | 1.00 | 0.70 | 18.785 | 20.66 | 427.15 | 0.650 | 0.000 | 2.00 | 9.760 | 6.34 | 209.7 | 0.0 | 417.7 |
| 32.00 | | 1.00 | 0.71 | 19.134 | 21.05 | 427.58 | 0.650 | 0.000 | 2.00 | 9.681 | 6.29 | 211.9 | 0.0 | 414.3 |
| 34.00 | | 1.00 | 0.73 | 19.469 | 21.42 | 427.73 | 0.650 | 0.000 | 2.00 | 9.601 | 6.24 | 213.8 | 0.0 | 410.8 |
| 36.00 | | 1.00 | 0.74 | 19.789 | 21.77 | 427.64 | 0.650 | 0.000 | 2.00 | 9.521 | 6.19 | 215.6 | 0.0 | 407.4 |
| 38.00 | | 1.00 | 0.75 | 20.097 | 22.11 | 427.34 | 0.650 | 0.000 | 2.00 | 9.442 | 6.14 | 217.1 | 0.0 | 404.0 |
| 40.00 | | 1.00 | 0.76 | 20.394 | 22.43 | 426.83 | 0.650 | 0.000 | 2.00 | 9.362 | 6.09 | 218.4 | 0.0 | 400.5 |
| 41.00 | Bot - Section 2 | 1.00 | 0.77 | 20.538 | 22.59 | 426.51 | 0.650 | 0.000 | 1.00 | 4.651 | 3.02 | 109.3 | 0.0 | 199.0 |
| 42.00 | | 1.00 | 0.77 | 20.680 | 22.75 | 426.14 | 0.650 | 0.000 | 1.00 | 4.695 | 3.05 | 111.1 | 0.0 | 399.0 |
| 44.00 | | 1.00 | 0.78 | 20.957 | 23.05 | 425.29 | 0.650 | 0.000 | 2.00 | 9.330 | 6.06 | 223.7 | 0.0 | 792.8 |
| 46.00 | | 1.00 | 0.79 | 21.225 | 23.35 | 424.27 | 0.650 | 0.000 | 2.00 | 9.250 | 6.01 | 224.6 | 0.0 | 786.0 |
| 48.00 | Top - Section 1 | 1.00 | 0.80 | 21.485 | 23.63 | 423.12 | 0.650 | 0.000 | 2.00 | 9.170 | 5.96 | 225.4 | 0.0 | 779.1 |
| 50.00 | | 1.00 | 0.81 | 21.737 | 23.91 | 427.83 | 0.650 | 0.000 | 2.00 | 9.091 | 5.91 | 226.1 | 0.0 | 388.8 |
| 51.00 | Top - Section 2 | 1.00 | 0.82 | 21.860 | 24.05 | 427.15 | 0.650 | 0.000 | 1.00 | 4.515 | 2.94 | 112.9 | 0.0 | 193.1 |
| 52.00 | | 1.00 | 0.82 | 21.982 | 24.18 | 426.44 | 0.650 | 0.000 | 1.00 | 4.495 | 2.92 | 113.0 | 0.0 | 192.3 |
| 54.00 | | 1.00 | 0.83 | 22.220 | 24.44 | 424.94 | 0.650 | 0.000 | 2.00 | 8.931 | 5.81 | 227.0 | 0.0 | 382.0 |
| 56.00 | | 1.00 | 0.84 | 22.452 | 24.70 | 423.33 | 0.650 | 0.000 | 2.00 | 8.852 | 5.75 | 227.4 | 0.0 | 378.6 |
| 58.00 | | 1.00 | 0.85 | 22.678 | 24.95 | 421.61 | 0.650 | 0.000 | 2.00 | 8.772 | 5.70 | 227.6 | 0.0 | 375.1 |
| 60.00 | | 1.00 | 0.85 | 22.899 | 25.19 | 419.79 | 0.650 | 0.000 | 2.00 | 8.692 | 5.65 | 227.7 | 0.0 | 371.7 |
| 62.00 | | 1.00 | 0.86 | 23.114 | 25.43 | 417.87 | 0.650 | 0.000 | 2.00 | 8.612 | 5.60 | 227.7 | 0.0 | 368.3 |
| 64.00 | | 1.00 | 0.87 | 23.325 | 25.66 | 415.87 | 0.650 | 0.000 | 2.00 | 8.533 | 5.55 | 227.7 | 0.0 | 364.8 |
| 66.00 | | 1.00 | 0.88 | 23.531 | 25.88 | 413.78 | 0.650 | 0.000 | 2.00 | 8.453 | 5.49 | 227.6 | 0.0 | 361.4 |
| 66.17 | RB1 | 1.00 | 0.88 | 23.548 | 25.90 | 413.60 | 0.650 | 0.000 | 0.17 | 0.715 | 0.46 | 19.3 | 0.0 | 30.6 |
| 68.00 | | 1.00 | 0.89 | 23.733 | 26.11 | 411.62 | 0.650 | 0.000 | 1.83 | 7.659 | 4.98 | 207.9 | 0.0 | 327.4 |
| 70.00 | | 1.00 | 0.89 | 23.930 | 26.32 | 409.37 | 0.650 | 0.000 | 2.00 | 8.294 | 5.39 | 227.0 | 0.0 | 354.5 |
| 71.00 | Top - Section 3 | 1.00 | 0.90 | 24.027 | 26.43 | 408.22 | 0.650 | 0.000 | 1.00 | 4.117 | 2.68 | 113.2 | 0.0 | 176.0 |
| 72.00 | | 1.00 | 0.90 | 24.123 | 26.54 | 407.05 | 0.650 | 0.000 | 1.00 | 4.097 | 2.66 | 113.1 | 0.0 | 175.1 |
| 74.00 | | 1.00 | 0.91 | 24.313 | 26.74 | 404.66 | 0.650 | 0.000 | 2.00 | 8.134 | 5.29 | 226.2 | 0.0 | 347.7 |
| 76.00 | | 1.00 | 0.91 | 24.499 | 26.95 | 402.21 | 0.650 | 0.000 | 2.00 | 8.055 | 5.24 | 225.7 | 0.0 | 344.2 |
| 78.00 | | 1.00 | 0.92 | 24.681 | 27.15 | 399.69 | 0.650 | 0.000 | 2.00 | 7.975 | 5.18 | 225.2 | 0.0 | 340.8 |
| 80.00 | | 1.00 | 0.93 | 24.861 | 27.35 | 397.11 | 0.650 | 0.000 | 2.00 | 7.895 | 5.13 | 224.5 | 0.0 | 337.4 |
| 81.00 | Top - Section 4 | 1.00 | 0.93 | 24.949 | 27.44 | 395.80 | 0.650 | 0.000 | 1.00 | 3.918 | 2.55 | 111.8 | 0.0 | 167.4 |
| 82.00 | | 1.00 | 0.93 | 25.037 | 27.54 | 394.47 | 0.650 | 0.000 | 1.00 | 3.898 | 2.53 | 111.6 | 0.0 | 139.0 |

Wind Loading - Shaft

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



| | | | | | | | | | | | | | |
|------------------------|------|------|--------|-------|--------|-------|-------|------|-------|------|-------|-----|-------|
| 84.00 | 1.00 | 0.94 | 25.210 | 27.73 | 391.78 | 0.650 | 0.000 | 2.00 | 7.736 | 5.03 | 223.1 | 0.0 | 275.8 |
| 85.00 Bot - Section 6 | 1.00 | 0.94 | 25.295 | 27.82 | 390.41 | 0.650 | 0.000 | 1.00 | 3.838 | 2.49 | 111.1 | 0.0 | 136.8 |
| 86.00 | 1.00 | 0.95 | 25.380 | 27.92 | 389.03 | 0.650 | 0.000 | 1.00 | 3.871 | 2.52 | 112.4 | 0.0 | 274.1 |
| 88.00 | 1.00 | 0.95 | 25.547 | 28.10 | 386.22 | 0.650 | 0.000 | 2.00 | 7.682 | 4.99 | 224.5 | 0.0 | 543.9 |
| 90.00 | 1.00 | 0.96 | 25.711 | 28.28 | 383.37 | 0.650 | 0.000 | 2.00 | 7.603 | 4.94 | 223.6 | 0.0 | 538.2 |
| 91.00 Top - Section 5 | 1.00 | 0.96 | 25.793 | 28.37 | 381.92 | 0.650 | 0.000 | 1.00 | 3.771 | 2.45 | 111.3 | 0.0 | 267.0 |
| 92.00 | 1.00 | 0.96 | 25.873 | 28.46 | 385.92 | 0.650 | 0.000 | 1.00 | 3.752 | 2.44 | 111.0 | 0.0 | 133.7 |
| 93.83 RT1 | 1.00 | 0.97 | 26.019 | 28.62 | 383.24 | 0.650 | 0.000 | 1.83 | 6.814 | 4.43 | 202.8 | 0.0 | 242.9 |
| 94.00 | 1.00 | 0.97 | 26.033 | 28.64 | 382.99 | 0.650 | 0.000 | 0.17 | 0.630 | 0.41 | 18.8 | 0.0 | 22.4 |
| 96.00 | 1.00 | 0.98 | 26.190 | 28.81 | 380.01 | 0.650 | 0.000 | 2.00 | 7.364 | 4.79 | 220.6 | 0.0 | 262.4 |
| 98.00 | 1.00 | 0.98 | 26.345 | 28.98 | 376.98 | 0.650 | 0.000 | 2.00 | 7.284 | 4.73 | 219.5 | 0.0 | 259.6 |
| 100.00 | 1.00 | 0.99 | 26.497 | 29.15 | 373.91 | 0.650 | 0.000 | 2.00 | 7.204 | 4.68 | 218.4 | 0.0 | 256.7 |
| 102.00 | 1.00 | 0.99 | 26.648 | 29.31 | 370.80 | 0.650 | 0.000 | 2.00 | 7.125 | 4.63 | 217.2 | 0.0 | 253.8 |
| 104.00 | 1.00 | 1.00 | 26.796 | 29.48 | 367.65 | 0.650 | 0.000 | 2.00 | 7.045 | 4.58 | 216.0 | 0.0 | 251.0 |
| 106.00 | 1.00 | 1.00 | 26.942 | 29.64 | 364.46 | 0.650 | 0.000 | 2.00 | 6.967 | 4.53 | 214.8 | 0.0 | 248.1 |
| 108.00 | 1.00 | 1.01 | 27.086 | 29.79 | 361.23 | 0.650 | 0.000 | 2.00 | 6.887 | 4.48 | 213.6 | 0.0 | 245.3 |
| 110.00 | 1.00 | 1.02 | 27.229 | 29.95 | 357.96 | 0.650 | 0.000 | 2.00 | 6.807 | 4.43 | 212.4 | 0.0 | 242.4 |
| 111.17 RB2 | 1.00 | 1.02 | 27.311 | 30.04 | 356.03 | 0.650 | 0.000 | 1.17 | 3.711 | 2.41 | 116.0 | 0.0 | 140.5 |
| 112.00 | 1.00 | 1.02 | 27.369 | 30.11 | 354.66 | 0.650 | 0.000 | 0.83 | 2.616 | 1.70 | 81.9 | 0.0 | 99.1 |
| 114.00 | 1.00 | 1.03 | 27.508 | 30.26 | 351.32 | 0.650 | 0.000 | 2.00 | 6.248 | 4.06 | 196.6 | 0.0 | 236.7 |
| 115.00 Top - Section 6 | 1.00 | 1.03 | 27.577 | 30.33 | 349.64 | 0.650 | 0.000 | 1.00 | 3.293 | 2.14 | 103.9 | 0.0 | 117.3 |
| 116.00 | 1.00 | 1.03 | 27.645 | 30.41 | 347.94 | 0.650 | 0.000 | 1.00 | 3.273 | 2.13 | 103.5 | 0.0 | 93.4 |
| 118.00 | 1.00 | 1.04 | 27.780 | 30.56 | 344.53 | 0.650 | 0.000 | 2.00 | 6.487 | 4.22 | 206.2 | 0.0 | 185.1 |
| 120.00 | 1.00 | 1.04 | 27.914 | 30.71 | 341.09 | 0.650 | 0.000 | 2.00 | 6.407 | 4.16 | 204.6 | 0.0 | 182.8 |
| 122.00 | 1.00 | 1.05 | 28.046 | 30.85 | 337.62 | 0.650 | 0.000 | 2.00 | 6.328 | 4.11 | 203.0 | 0.0 | 180.5 |
| 123.83 RT2 | 1.00 | 1.05 | 28.166 | 30.98 | 334.42 | 0.650 | 0.000 | 1.83 | 5.720 | 3.72 | 184.3 | 0.0 | 163.2 |
| 124.00 | 1.00 | 1.05 | 28.177 | 30.99 | 334.12 | 0.650 | 0.000 | 0.17 | 0.528 | 0.34 | 17.0 | 0.0 | 15.1 |
| 126.00 | 1.00 | 1.06 | 28.306 | 31.14 | 330.58 | 0.650 | 0.000 | 2.00 | 6.168 | 4.01 | 199.7 | 0.0 | 175.9 |
| 128.00 | 1.00 | 1.06 | 28.434 | 31.28 | 327.02 | 0.650 | 0.000 | 2.00 | 6.089 | 3.96 | 198.1 | 0.0 | 173.6 |
| 130.00 Bot - Section 8 | 1.00 | 1.07 | 28.560 | 31.42 | 323.43 | 0.650 | 0.000 | 2.00 | 6.009 | 3.91 | 196.3 | 0.0 | 171.3 |
| 132.00 | 1.00 | 1.07 | 28.685 | 31.55 | 319.81 | 0.650 | 0.000 | 2.00 | 6.014 | 3.91 | 197.4 | 0.0 | 340.5 |
| 134.00 | 1.00 | 1.07 | 28.808 | 31.69 | 316.16 | 0.650 | 0.000 | 2.00 | 5.934 | 3.86 | 195.6 | 0.0 | 336.0 |
| 135.00 Top - Section 7 | 1.00 | 1.08 | 28.869 | 31.76 | 314.32 | 0.650 | 0.000 | 1.00 | 2.937 | 1.91 | 97.0 | 0.0 | 166.3 |
| 136.00 | 1.00 | 1.08 | 28.930 | 31.82 | 317.10 | 0.650 | 0.000 | 1.00 | 2.917 | 1.90 | 96.6 | 0.0 | 83.2 |
| 138.00 | 1.00 | 1.08 | 29.051 | 31.96 | 313.41 | 0.650 | 0.000 | 2.00 | 5.775 | 3.75 | 191.9 | 0.0 | 164.6 |
| 140.00 | 1.00 | 1.09 | 29.171 | 32.09 | 309.69 | 0.650 | 0.000 | 2.00 | 5.695 | 3.70 | 190.1 | 0.0 | 162.3 |
| 142.00 | 1.00 | 1.09 | 29.289 | 32.22 | 305.95 | 0.650 | 0.000 | 2.00 | 5.616 | 3.65 | 188.2 | 0.0 | 160.0 |
| 143.00 Appurtenance(s) | 1.00 | 1.09 | 29.348 | 32.28 | 304.06 | 0.650 | 0.000 | 1.00 | 2.778 | 1.81 | 93.3 | 0.0 | 79.2 |
| 144.00 | 1.00 | 1.10 | 29.407 | 32.35 | 302.18 | 0.650 | 0.000 | 1.00 | 2.758 | 1.79 | 92.8 | 0.0 | 78.6 |
| 146.00 | 1.00 | 1.10 | 29.523 | 32.48 | 298.38 | 0.650 | 0.000 | 2.00 | 5.456 | 3.55 | 184.3 | 0.0 | 155.5 |
| 148.00 | 1.00 | 1.11 | 29.638 | 32.60 | 294.56 | 0.650 | 0.000 | 2.00 | 5.376 | 3.49 | 182.3 | 0.0 | 153.2 |
| 150.00 | 1.00 | 1.11 | 29.752 | 32.73 | 290.72 | 0.650 | 0.000 | 2.00 | 5.297 | 3.44 | 180.3 | 0.0 | 150.9 |
| 152.00 | 1.00 | 1.11 | 29.865 | 32.85 | 286.86 | 0.650 | 0.000 | 2.00 | 5.217 | 3.39 | 178.2 | 0.0 | 148.6 |
| 153.00 Appurtenance(s) | 1.00 | 1.12 | 29.921 | 32.91 | 284.92 | 0.650 | 0.000 | 1.00 | 2.579 | 1.68 | 88.3 | 0.0 | 73.4 |
| 154.00 | 1.00 | 1.12 | 29.976 | 32.97 | 282.97 | 0.650 | 0.000 | 1.00 | 2.559 | 1.66 | 87.7 | 0.0 | 72.9 |
| 156.00 | 1.00 | 1.12 | 30.087 | 33.10 | 279.06 | 0.650 | 0.000 | 2.00 | 5.058 | 3.29 | 174.1 | 0.0 | 144.0 |
| 158.00 Appurtenance(s) | 1.00 | 1.13 | 30.197 | 33.22 | 275.13 | 0.650 | 0.000 | 2.00 | 4.978 | 3.24 | 172.0 | 0.0 | 141.7 |
| 160.00 | 1.00 | 1.13 | 30.305 | 33.34 | 271.18 | 0.650 | 0.000 | 2.00 | 4.898 | 3.18 | 169.8 | 0.0 | 139.5 |
| 162.00 | 1.00 | 1.13 | 30.413 | 33.45 | 267.21 | 0.650 | 0.000 | 2.00 | 4.819 | 3.13 | 167.7 | 0.0 | 137.2 |
| 163.00 Appurtenance(s) | 1.00 | 1.14 | 30.467 | 33.51 | 265.21 | 0.650 | 0.000 | 1.00 | 2.379 | 1.55 | 82.9 | 0.0 | 67.7 |
| 164.00 | 1.00 | 1.14 | 30.520 | 33.57 | 263.21 | 0.650 | 0.000 | 1.00 | 2.360 | 1.53 | 82.4 | 0.0 | 67.2 |
| 166.00 | 1.00 | 1.14 | 30.626 | 33.69 | 259.20 | 0.650 | 0.000 | 2.00 | 4.659 | 3.03 | 163.2 | 0.0 | 132.6 |
| 168.00 | 1.00 | 1.15 | 30.731 | 33.80 | 255.16 | 0.650 | 0.000 | 2.00 | 4.580 | 2.98 | 161.0 | 0.0 | 130.3 |
| 170.00 | 1.00 | 1.15 | 30.835 | 33.92 | 251.11 | 0.650 | 0.000 | 2.00 | 4.500 | 2.92 | 158.7 | 0.0 | 128.0 |
| 172.00 | 1.00 | 1.15 | 30.938 | 34.03 | 247.03 | 0.650 | 0.000 | 2.00 | 4.420 | 2.87 | 156.4 | 0.0 | 125.7 |
| 173.00 Appurtenance(s) | 1.00 | 1.16 | 30.989 | 34.09 | 244.99 | 0.650 | 0.000 | 1.00 | 2.180 | 1.42 | 77.3 | 0.0 | 62.0 |
| 174.00 | 1.00 | 1.16 | 31.041 | 34.14 | 242.94 | 0.650 | 0.000 | 1.00 | 2.160 | 1.40 | 76.7 | 0.0 | 61.4 |

Wind Loading - Shaft

| | | |
|---------------------------------|-----------------------------------|-----------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Page: 31 |
| | Struct Class: II | |



| | | | | | | | | | | | | | |
|------------------------|------|------|--------|-------|--------|-------|-------|---------------|-------|------|-----------------|-----|-----------------|
| 176.00 | 1.00 | 1.16 | 31.142 | 34.26 | 238.83 | 0.650 | 0.000 | 2.00 | 4.261 | 2.77 | 151.8 | 0.0 | 121.1 |
| 178.00 | 1.00 | 1.17 | 31.243 | 34.37 | 234.70 | 0.650 | 0.000 | 2.00 | 4.181 | 2.72 | 149.4 | 0.0 | 118.9 |
| 180.00 Top - Section 8 | 1.00 | 1.17 | 31.343 | 34.48 | 230.55 | 0.650 | 0.000 | 2.00 | 4.102 | 2.67 | 147.1 | 0.0 | 116.6 |
| 181.00 Appurtenance(s) | 1.00 | 1.17 | 31.392 | 34.53 | 227.23 | 0.600 | 0.000 | 1.00 | 2.000 | 1.20 | 66.3 | 0.0 | 64.1 |
| 182.00 | 1.00 | 1.17 | 31.442 | 34.59 | 227.41 | 0.600 | 0.000 | 1.00 | 2.000 | 1.20 | 66.4 | 0.0 | 64.1 |
| 183.00 | 1.00 | 1.17 | 31.491 | 34.64 | 227.58 | 0.600 | 0.000 | 1.00 | 2.000 | 1.20 | 66.5 | 0.0 | 64.1 |
| Totals: | | | | | | | | 183.00 | | | 18,722.6 | | 28,334.9 |

Discrete Appurtenance Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |

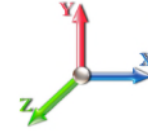


Page: 32

Load Case: 0.9D + 1.6W 105 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 30

| No. | Elev (ft) | Description | Qty | qz (psf) | qzGh (psf) | Orient Factor | x Ka | Ka | Total CaAa (sf) | Dead Load (lb) | Horiz Ecc (ft) | Vert Ecc (ft) | Wind FX (lb) | Mom Y (lb-ft) | Mom Z (lb-ft) |
|-----|-----------|-------------------------|-----|----------|------------|---------------|------|-------|-----------------|----------------|----------------|---------------|--------------|---------------|---------------|
| 1 | 181.00 | Low Profile | 1 | 31.392 | 34.532 | 1.00 | 1.00 | 22.00 | 1350.00 | 0.000 | 0.000 | 1215.51 | 0.00 | 0.00 | |
| 2 | 173.00 | Samsung B2/B66 RRH | 3 | 30.989 | 34.088 | 0.54 | 0.80 | 3.01 | 227.88 | 0.000 | 0.000 | 164.00 | 0.00 | 0.00 | |
| 3 | 173.00 | Andrew JAHH-65B-R3B | 6 | 30.989 | 34.088 | 0.66 | 0.80 | 36.29 | 341.82 | 0.000 | 0.000 | 1979.54 | 0.00 | 0.00 | |
| 4 | 173.00 | BSAMNT-SBS-1-2 | 3 | 30.989 | 34.088 | 0.75 | 0.75 | 0.00 | 68.45 | 0.000 | 0.000 | 0.00 | 0.00 | 0.00 | |
| 5 | 173.00 | CBC78T-DS-43/E14F05P | 3 | 30.989 | 34.088 | 0.54 | 0.80 | 0.59 | 28.08 | 0.000 | 0.000 | 32.45 | 0.00 | 0.00 | |
| 6 | 173.00 | Samsung MT6407-77A | 3 | 30.989 | 34.088 | 0.56 | 0.80 | 7.88 | 214.38 | 0.000 | 0.000 | 429.74 | 0.00 | 0.00 | |
| 7 | 173.00 | Samsung B5/B13 RRH | 3 | 30.989 | 34.088 | 0.54 | 0.80 | 3.01 | 189.81 | 0.000 | 0.000 | 164.00 | 0.00 | 0.00 | |
| 8 | 173.00 | (3) T-Arms | 1 | 30.989 | 34.088 | 0.75 | 0.75 | 22.50 | 1350.00 | 0.000 | 0.000 | 1227.18 | 0.00 | 0.00 | |
| 9 | 173.00 | LPA-80080-4CF-EDIN-0 | 4 | 30.989 | 34.088 | 1.36 | 0.80 | 14.20 | 43.20 | 0.000 | 0.000 | 774.40 | 0.00 | 0.00 | |
| 10 | 173.00 | APL866513-42T0 | 2 | 30.989 | 34.088 | 0.74 | 0.80 | 6.03 | 28.26 | 0.000 | 0.000 | 328.69 | 0.00 | 0.00 | |
| 11 | 173.00 | DB-T1-6Z-8AB-OZ | 2 | 30.989 | 34.088 | 0.60 | 0.80 | 5.76 | 79.20 | 0.000 | 0.000 | 314.16 | 0.00 | 0.00 | |
| 12 | 163.00 | LLPX310R | 3 | 30.467 | 33.513 | 0.55 | 0.80 | 7.12 | 77.22 | 0.000 | 0.000 | 381.83 | 0.00 | 0.00 | |
| 13 | 163.00 | Low Profile | 1 | 30.467 | 33.513 | 1.00 | 1.00 | 22.00 | 1350.00 | 0.000 | 0.000 | 1179.67 | 0.00 | 0.00 | |
| 14 | 163.00 | DAP Head | 3 | 30.467 | 33.513 | 0.54 | 0.80 | 3.02 | 113.40 | 0.000 | 0.000 | 162.10 | 0.00 | 0.00 | |
| 15 | 158.00 | Low Profile | 1 | 30.197 | 33.216 | 1.00 | 1.00 | 22.00 | 1350.00 | 0.000 | 0.000 | 1169.22 | 0.00 | 0.00 | |
| 16 | 153.00 | V-brace kit | 1 | 29.921 | 32.913 | 1.00 | 1.00 | 2.70 | 207.00 | 0.000 | 0.000 | 142.18 | 0.00 | 0.00 | |
| 17 | 153.00 | SPTB(Tie back Kit) | 1 | 29.921 | 32.913 | 1.00 | 1.00 | 3.70 | 126.00 | 0.000 | 0.000 | 194.84 | 0.00 | 0.00 | |
| 18 | 153.00 | PRK-1245 (kicker kit) | 1 | 29.921 | 32.913 | 1.00 | 1.00 | 9.50 | 418.42 | 0.000 | 0.000 | 500.27 | 0.00 | 0.00 | |
| 19 | 153.00 | RFS | 3 | 29.921 | 32.913 | 0.56 | 0.80 | 34.00 | 331.56 | 0.000 | 0.000 | 1790.61 | 0.00 | 0.00 | |
| 20 | 153.00 | KRY 112 144/1 | 3 | 29.921 | 32.913 | 0.56 | 0.80 | 0.69 | 29.70 | 0.000 | 0.000 | 36.27 | 0.00 | 0.00 | |
| 21 | 153.00 | Ericsson Air 21 B2A/B4P | 3 | 29.921 | 32.913 | 0.69 | 0.80 | 12.57 | 247.05 | 0.000 | 0.000 | 661.93 | 0.00 | 0.00 | |
| 22 | 153.00 | Low Profile Platform | 1 | 29.921 | 32.913 | 1.00 | 1.00 | 25.00 | 1080.00 | 0.000 | 0.000 | 1316.50 | 0.00 | 0.00 | |
| 23 | 153.00 | Ericsson 4449 B71 + B85 | 3 | 29.921 | 32.913 | 0.54 | 0.80 | 3.17 | 197.64 | 0.000 | 0.000 | 166.81 | 0.00 | 0.00 | |
| 24 | 153.00 | Ericsson Air 21 B4A/B2P | 3 | 29.921 | 32.913 | 0.69 | 0.80 | 12.57 | 244.08 | 0.000 | 0.000 | 661.93 | 0.00 | 0.00 | |
| 25 | 143.00 | Powerwave 7770.00 | 3 | 29.348 | 32.283 | 0.55 | 0.75 | 9.03 | 94.50 | 0.000 | 0.000 | 466.62 | 0.00 | 0.00 | |
| 26 | 143.00 | 850-1900 Dual Band | 3 | 29.348 | 32.283 | 0.49 | 0.75 | 0.77 | 14.85 | 0.000 | 0.000 | 39.89 | 0.00 | 0.00 | |
| 27 | 143.00 | Low Profile | 1 | 29.348 | 32.283 | 1.00 | 1.00 | 22.00 | 1350.00 | 0.000 | 0.000 | 1136.36 | 0.00 | 0.00 | |
| 28 | 143.00 | RRUS 11 | 3 | 29.348 | 32.283 | 0.50 | 0.75 | 3.80 | 136.89 | 0.000 | 0.000 | 196.22 | 0.00 | 0.00 | |
| 29 | 143.00 | DC6-48-60-18-8F | 1 | 29.348 | 32.283 | 0.75 | 0.75 | 1.10 | 28.62 | 0.000 | 0.000 | 56.95 | 0.00 | 0.00 | |
| 30 | 143.00 | DBC-750 | 3 | 29.348 | 32.283 | 0.38 | 0.75 | 0.57 | 12.96 | 0.000 | 0.000 | 29.64 | 0.00 | 0.00 | |
| 31 | 143.00 | HRK14 | 1 | 29.348 | 32.283 | 1.00 | 1.00 | 10.13 | 317.12 | 0.000 | 0.000 | 523.24 | 0.00 | 0.00 | |
| 32 | 143.00 | TPA-65R-LCUUUU-H8 | 2 | 29.348 | 32.283 | 0.62 | 0.75 | 16.56 | 135.00 | 0.000 | 0.000 | 855.30 | 0.00 | 0.00 | |
| 33 | 143.00 | QS46512-2 | 1 | 29.348 | 32.283 | 0.75 | 0.75 | 4.16 | 24.57 | 0.000 | 0.000 | 215.01 | 0.00 | 0.00 | |
| 34 | 143.00 | OPA-65R-LCUU-H4 | 1 | 29.348 | 32.283 | 0.75 | 0.75 | 4.46 | 51.30 | 0.000 | 0.000 | 230.11 | 0.00 | 0.00 | |
| 35 | 143.00 | OPA-65R-LCUU-H8 | 2 | 29.348 | 32.283 | 0.59 | 0.75 | 15.11 | 171.00 | 0.000 | 0.000 | 780.41 | 0.00 | 0.00 | |
| 36 | 143.00 | DTMABP7819VG12A | 3 | 29.348 | 32.283 | 0.50 | 0.75 | 1.72 | 51.84 | 0.000 | 0.000 | 88.77 | 0.00 | 0.00 | |
| 37 | 143.00 | DBC0061F1V51-2 | 3 | 29.348 | 32.283 | 0.50 | 0.75 | 0.65 | 68.58 | 0.000 | 0.000 | 33.48 | 0.00 | 0.00 | |
| 38 | 143.00 | RRUS 32 B2 | 3 | 29.348 | 32.283 | 0.50 | 0.75 | 4.13 | 143.10 | 0.000 | 0.000 | 213.36 | 0.00 | 0.00 | |

Totals: 12,293.48

19,859.21

Total Applied Force Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 33

Load Case: 0.9D + 1.6W 105 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 30

| Elev (ft) | Description | Lateral FX (-) (lb) | Axial FY (-) (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) |
|--------------|-------------|---------------------------|-------------------------|--------------------------|-------------------------|
| 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 |
| 2.00 | | 233.53 | 546.33 | 0.00 | 0.00 |
| 4.00 | | 231.82 | 542.90 | 0.00 | 0.00 |
| 6.00 | | 230.10 | 539.46 | 0.00 | 0.00 |
| 8.00 | | 228.39 | 536.03 | 0.00 | 0.00 |
| 10.00 | | 226.68 | 532.60 | 0.00 | 0.00 |
| 12.00 | | 224.97 | 529.17 | 0.00 | 0.00 |
| 14.00 | | 223.26 | 525.74 | 0.00 | 0.00 |
| 16.00 | | 221.55 | 522.30 | 0.00 | 0.00 |
| 18.00 | | 219.84 | 518.87 | 0.00 | 0.00 |
| 20.00 | | 218.13 | 515.44 | 0.00 | 0.00 |
| 22.00 | | 216.42 | 512.01 | 0.00 | 0.00 |
| 24.00 | | 214.71 | 508.57 | 0.00 | 0.00 |
| 26.00 | | 212.99 | 505.14 | 0.00 | 0.00 |
| 28.00 | | 211.28 | 501.71 | 0.00 | 0.00 |
| 30.00 | | 209.75 | 498.28 | 0.00 | 0.00 |
| 32.00 | | 211.91 | 494.84 | 0.00 | 0.00 |
| 34.00 | | 213.84 | 491.41 | 0.00 | 0.00 |
| 36.00 | | 215.55 | 487.98 | 0.00 | 0.00 |
| 38.00 | | 217.08 | 484.55 | 0.00 | 0.00 |
| 40.00 | | 218.42 | 481.11 | 0.00 | 0.00 |
| 41.00 | | 109.28 | 239.27 | 0.00 | 0.00 |
| 42.00 | | 111.07 | 439.27 | 0.00 | 0.00 |
| 44.00 | | 223.68 | 873.39 | 0.00 | 0.00 |
| 46.00 | | 224.60 | 866.53 | 0.00 | 0.00 |
| 48.00 | | 225.39 | 859.66 | 0.00 | 0.00 |
| 50.00 | | 226.05 | 469.42 | 0.00 | 0.00 |
| 51.00 | | 112.92 | 233.42 | 0.00 | 0.00 |
| 52.00 | | 113.05 | 232.57 | 0.00 | 0.00 |
| 54.00 | | 227.03 | 462.56 | 0.00 | 0.00 |
| 56.00 | | 227.35 | 459.12 | 0.00 | 0.00 |
| 58.00 | | 227.58 | 455.69 | 0.00 | 0.00 |
| 60.00 | | 227.70 | 452.26 | 0.00 | 0.00 |
| 62.00 | | 227.74 | 448.83 | 0.00 | 0.00 |
| 64.00 | | 227.69 | 445.40 | 0.00 | 0.00 |
| 66.00 | | 227.55 | 441.96 | 0.00 | 0.00 |
| 66.17 | | 19.26 | 37.41 | 0.00 | 0.00 |
| 68.00 | | 207.93 | 401.12 | 0.00 | 0.00 |
| 70.00 | | 227.05 | 435.10 | 0.00 | 0.00 |
| 71.00 | | 113.16 | 216.26 | 0.00 | 0.00 |
| 72.00 | | 113.07 | 215.40 | 0.00 | 0.00 |
| 74.00 | | 226.25 | 428.23 | 0.00 | 0.00 |
| 76.00 | | 225.74 | 424.80 | 0.00 | 0.00 |
| 78.00 | | 225.18 | 421.36 | 0.00 | 0.00 |
| 80.00 | | 224.54 | 417.93 | 0.00 | 0.00 |
| 81.00 | | 111.82 | 207.68 | 0.00 | 0.00 |
| 82.00 | | 111.64 | 179.26 | 0.00 | 0.00 |

Total Applied Force Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 34

| | | | | | |
|--------|------------------|---------|---------|------|------|
| 84.00 | | 223.10 | 356.36 | 0.00 | 0.00 |
| 85.00 | | 111.06 | 177.11 | 0.00 | 0.00 |
| 86.00 | | 112.39 | 314.40 | 0.00 | 0.00 |
| 88.00 | | 224.52 | 624.52 | 0.00 | 0.00 |
| 90.00 | | 223.63 | 618.80 | 0.00 | 0.00 |
| 91.00 | | 111.28 | 307.25 | 0.00 | 0.00 |
| 92.00 | | 111.04 | 174.00 | 0.00 | 0.00 |
| 93.83 | | 202.82 | 316.58 | 0.00 | 0.00 |
| 94.00 | | 18.75 | 29.29 | 0.00 | 0.00 |
| 96.00 | | 220.63 | 343.00 | 0.00 | 0.00 |
| 98.00 | | 219.53 | 340.14 | 0.00 | 0.00 |
| 100.00 | | 218.38 | 337.28 | 0.00 | 0.00 |
| 102.00 | | 217.19 | 334.42 | 0.00 | 0.00 |
| 104.00 | | 215.96 | 331.56 | 0.00 | 0.00 |
| 106.00 | | 202.40 | 328.70 | 0.00 | 0.00 |
| 108.00 | | 201.01 | 325.84 | 0.00 | 0.00 |
| 110.00 | | 199.59 | 322.98 | 0.00 | 0.00 |
| 111.17 | | 115.96 | 187.62 | 0.00 | 0.00 |
| 112.00 | | 81.92 | 132.50 | 0.00 | 0.00 |
| 114.00 | | 196.62 | 317.26 | 0.00 | 0.00 |
| 115.00 | | 103.90 | 157.56 | 0.00 | 0.00 |
| 116.00 | | 103.53 | 133.68 | 0.00 | 0.00 |
| 118.00 | | 206.16 | 265.65 | 0.00 | 0.00 |
| 120.00 | | 204.61 | 263.36 | 0.00 | 0.00 |
| 122.00 | | 203.02 | 261.07 | 0.00 | 0.00 |
| 123.83 | | 184.31 | 236.88 | 0.00 | 0.00 |
| 124.00 | | 17.02 | 21.91 | 0.00 | 0.00 |
| 126.00 | | 199.74 | 256.50 | 0.00 | 0.00 |
| 128.00 | | 198.05 | 254.21 | 0.00 | 0.00 |
| 130.00 | | 196.33 | 251.92 | 0.00 | 0.00 |
| 132.00 | | 197.35 | 421.12 | 0.00 | 0.00 |
| 134.00 | | 195.57 | 416.54 | 0.00 | 0.00 |
| 135.00 | | 97.01 | 206.55 | 0.00 | 0.00 |
| 136.00 | | 96.55 | 123.46 | 0.00 | 0.00 |
| 138.00 | | 191.93 | 245.20 | 0.00 | 0.00 |
| 140.00 | | 190.06 | 242.91 | 0.00 | 0.00 |
| 142.00 | | 188.16 | 240.62 | 0.00 | 0.00 |
| 143.00 | (30) attachments | 4958.62 | 2719.79 | 0.00 | 0.00 |
| 144.00 | | 92.78 | 106.86 | 0.00 | 0.00 |
| 146.00 | | 184.28 | 212.00 | 0.00 | 0.00 |
| 148.00 | | 182.29 | 209.71 | 0.00 | 0.00 |
| 150.00 | | 180.28 | 207.42 | 0.00 | 0.00 |
| 152.00 | | 178.24 | 205.13 | 0.00 | 0.00 |
| 153.00 | (19) attachments | 5559.62 | 2983.16 | 0.00 | 0.00 |
| 154.00 | | 87.75 | 90.01 | 0.00 | 0.00 |
| 156.00 | | 174.09 | 178.31 | 0.00 | 0.00 |
| 158.00 | (1) attachments | 1341.19 | 1526.02 | 0.00 | 0.00 |
| 160.00 | | 169.82 | 173.73 | 0.00 | 0.00 |
| 162.00 | | 167.66 | 171.44 | 0.00 | 0.00 |
| 163.00 | (7) attachments | 1806.53 | 1625.48 | 0.00 | 0.00 |
| 164.00 | | 82.38 | 81.55 | 0.00 | 0.00 |
| 166.00 | | 163.25 | 161.38 | 0.00 | 0.00 |
| 168.00 | | 161.00 | 159.09 | 0.00 | 0.00 |
| 170.00 | | 158.74 | 156.80 | 0.00 | 0.00 |
| 172.00 | | 156.45 | 154.51 | 0.00 | 0.00 |
| 173.00 | (30) attachments | 5491.47 | 2647.47 | 0.00 | 0.00 |
| 174.00 | | 76.71 | 62.61 | 0.00 | 0.00 |

Total Applied Force Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 35

| | | | | |
|----------------|-------------------------|------------------|-------------|-------------|
| 176.00 | 151.80 | 123.51 | 0.00 | 0.00 |
| 178.00 | 149.45 | 121.22 | 0.00 | 0.00 |
| 180.00 | 147.07 | 118.93 | 0.00 | 0.00 |
| 181.00 | (1) attachments 1281.81 | 1415.31 | 0.00 | 0.00 |
| 182.00 | 66.40 | 65.31 | 0.00 | 0.00 |
| 183.00 | 66.51 | 65.31 | 0.00 | 0.00 |
| Totals: | 38,581.84 | 46,999.13 | 0.00 | 0.00 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 36

| | |
|--|----------------------|
| Load Case: 0.9D + 1.6W 105 mph Wind | Iterations 30 |
| Dead Load Factor 0.90 | |
| Wind Load Factor 1.60 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 2.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.030 | 0.000 | 18.769 | 0.00 | 0.49 |
| 2.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.030 | 0.000 | 18.769 | 0.00 | 1.87 |
| 2.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.030 | 0.000 | 18.769 | 0.00 | 5.62 |
| 4.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 0.49 |
| 4.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 1.87 |
| 4.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 5.62 |
| 6.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 0.49 |
| 6.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 1.87 |
| 6.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 5.62 |
| 8.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 0.49 |
| 8.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 1.87 |
| 8.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 5.62 |
| 10.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 0.49 |
| 10.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 1.87 |
| 10.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 5.62 |
| 12.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 0.49 |
| 12.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 1.87 |
| 12.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 18.769 | 0.00 | 5.62 |
| 14.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 0.49 |
| 14.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 1.87 |
| 14.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 5.62 |
| 16.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 0.49 |
| 16.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 1.87 |
| 16.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 5.62 |
| 18.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 0.49 |
| 18.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 1.87 |
| 18.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 5.62 |
| 20.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 0.49 |
| 20.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 1.87 |
| 20.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.032 | 0.000 | 18.769 | 0.00 | 5.62 |
| 22.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 0.49 |
| 22.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 1.87 |
| 22.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 5.62 |
| 24.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 0.49 |
| 24.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 1.87 |
| 24.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 5.62 |
| 26.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 0.49 |
| 26.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 1.87 |
| 26.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.033 | 0.000 | 18.769 | 0.00 | 5.62 |
| 28.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 18.769 | 0.00 | 0.49 |
| 28.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 18.769 | 0.00 | 1.87 |
| 28.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.034 | 0.000 | 18.769 | 0.00 | 5.62 |
| 30.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 18.785 | 0.00 | 0.49 |
| 30.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 18.785 | 0.00 | 1.87 |
| 30.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.034 | 0.000 | 18.785 | 0.00 | 5.62 |
| 32.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 19.134 | 0.00 | 0.49 |
| 32.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 19.134 | 0.00 | 1.87 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 37

| | |
|--|----------------------|
| Load Case: 0.9D + 1.6W 105 mph Wind | Iterations 30 |
| Dead Load Factor 0.90 | |
| Wind Load Factor 1.60 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 32.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.034 | 0.000 | 19.134 | 0.00 | 5.62 |
| 34.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 19.469 | 0.00 | 0.49 |
| 34.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 19.469 | 0.00 | 1.87 |
| 34.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.034 | 0.000 | 19.469 | 0.00 | 5.62 |
| 36.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 19.789 | 0.00 | 0.49 |
| 36.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 19.789 | 0.00 | 1.87 |
| 36.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.035 | 0.000 | 19.789 | 0.00 | 5.62 |
| 38.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 20.097 | 0.00 | 0.49 |
| 38.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 20.097 | 0.00 | 1.87 |
| 38.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.035 | 0.000 | 20.097 | 0.00 | 5.62 |
| 40.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 20.394 | 0.00 | 0.49 |
| 40.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 20.394 | 0.00 | 1.87 |
| 40.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.035 | 0.000 | 20.394 | 0.00 | 5.62 |
| 41.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 20.538 | 0.00 | 0.25 |
| 41.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 20.538 | 0.00 | 0.94 |
| 41.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.035 | 0.000 | 20.538 | 0.00 | 2.81 |
| 42.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 20.680 | 0.00 | 0.25 |
| 42.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 20.680 | 0.00 | 0.94 |
| 42.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.036 | 0.000 | 20.680 | 0.00 | 2.81 |
| 44.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 20.957 | 0.00 | 0.49 |
| 44.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 20.957 | 0.00 | 1.87 |
| 44.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.036 | 0.000 | 20.957 | 0.00 | 5.62 |
| 46.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 21.225 | 0.00 | 0.49 |
| 46.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 21.225 | 0.00 | 1.87 |
| 46.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.036 | 0.000 | 21.225 | 0.00 | 5.62 |
| 48.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 21.485 | 0.00 | 0.49 |
| 48.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 21.485 | 0.00 | 1.87 |
| 48.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.036 | 0.000 | 21.485 | 0.00 | 5.62 |
| 50.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 21.737 | 0.00 | 0.49 |
| 50.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 21.737 | 0.00 | 1.87 |
| 50.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.036 | 0.000 | 21.737 | 0.00 | 5.62 |
| 51.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 21.860 | 0.00 | 0.25 |
| 51.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 21.860 | 0.00 | 0.94 |
| 51.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.037 | 0.000 | 21.860 | 0.00 | 2.81 |
| 52.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 21.982 | 0.00 | 0.25 |
| 52.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 21.982 | 0.00 | 0.94 |
| 52.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.037 | 0.000 | 21.982 | 0.00 | 2.81 |
| 54.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 22.220 | 0.00 | 0.49 |
| 54.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 22.220 | 0.00 | 1.87 |
| 54.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.037 | 0.000 | 22.220 | 0.00 | 5.62 |
| 56.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 22.452 | 0.00 | 0.49 |
| 56.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 22.452 | 0.00 | 1.87 |
| 56.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.037 | 0.000 | 22.452 | 0.00 | 5.62 |
| 58.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 22.678 | 0.00 | 0.49 |
| 58.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 22.678 | 0.00 | 1.87 |
| 58.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.038 | 0.000 | 22.678 | 0.00 | 5.62 |
| 60.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 22.899 | 0.00 | 0.49 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 38

| | |
|--|----------------------|
| Load Case: 0.9D + 1.6W 105 mph Wind | Iterations 30 |
| Dead Load Factor 0.90 | |
| Wind Load Factor 1.60 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 60.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 22.899 | 0.00 | 1.87 |
| 60.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.038 | 0.000 | 22.899 | 0.00 | 5.62 |
| 62.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 23.114 | 0.00 | 0.49 |
| 62.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 23.114 | 0.00 | 1.87 |
| 62.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.038 | 0.000 | 23.114 | 0.00 | 5.62 |
| 64.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.325 | 0.00 | 0.49 |
| 64.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.325 | 0.00 | 1.87 |
| 64.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.039 | 0.000 | 23.325 | 0.00 | 5.62 |
| 66.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.531 | 0.00 | 0.49 |
| 66.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.531 | 0.00 | 1.87 |
| 66.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.039 | 0.000 | 23.531 | 0.00 | 5.62 |
| 66.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.531 | 0.00 | 0.00 |
| 66.17 | Safety Cable | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.548 | 0.00 | 0.04 |
| 66.17 | Step bolts (ladder) | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.548 | 0.00 | 0.16 |
| 66.17 | 1 5/8" Coax | Yes | 0.17 | 0.000 | 1.98 | 0.03 | 0.00 | 0.039 | 0.000 | 23.548 | 0.00 | 0.48 |
| 66.17 | C6X10.5 Reinforcing | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.548 | 0.00 | 0.00 |
| 68.00 | Safety Cable | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.733 | 0.00 | 0.45 |
| 68.00 | Step bolts (ladder) | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.733 | 0.00 | 1.71 |
| 68.00 | 1 5/8" Coax | Yes | 1.83 | 0.000 | 1.98 | 0.30 | 0.00 | 0.039 | 0.000 | 23.733 | 0.00 | 5.14 |
| 68.00 | C6X10.5 Reinforcing | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 23.733 | 0.00 | 0.00 |
| 70.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 23.930 | 0.00 | 0.49 |
| 70.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 23.930 | 0.00 | 1.87 |
| 70.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.040 | 0.000 | 23.930 | 0.00 | 5.62 |
| 70.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 23.930 | 0.00 | 0.00 |
| 71.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 24.027 | 0.00 | 0.25 |
| 71.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 24.027 | 0.00 | 0.94 |
| 71.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.040 | 0.000 | 24.027 | 0.00 | 2.81 |
| 71.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 24.027 | 0.00 | 0.00 |
| 72.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 24.123 | 0.00 | 0.25 |
| 72.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 24.123 | 0.00 | 0.94 |
| 72.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.040 | 0.000 | 24.123 | 0.00 | 2.81 |
| 72.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 24.123 | 0.00 | 0.00 |
| 74.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.313 | 0.00 | 0.49 |
| 74.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.313 | 0.00 | 1.87 |
| 74.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.041 | 0.000 | 24.313 | 0.00 | 5.62 |
| 74.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.313 | 0.00 | 0.00 |
| 76.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.499 | 0.00 | 0.49 |
| 76.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.499 | 0.00 | 1.87 |
| 76.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.041 | 0.000 | 24.499 | 0.00 | 5.62 |
| 76.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.499 | 0.00 | 0.00 |
| 78.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.681 | 0.00 | 0.49 |
| 78.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.681 | 0.00 | 1.87 |
| 78.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.041 | 0.000 | 24.681 | 0.00 | 5.62 |
| 78.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 24.681 | 0.00 | 0.00 |
| 80.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 24.861 | 0.00 | 0.49 |
| 80.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 24.861 | 0.00 | 1.87 |
| 80.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.042 | 0.000 | 24.861 | 0.00 | 5.62 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 39

| | |
|--|----------------------|
| Load Case: 0.9D + 1.6W 105 mph Wind | Iterations 30 |
| Dead Load Factor 0.90 | |
| Wind Load Factor 1.60 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 80.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 24.861 | 0.00 | 0.00 |
| 81.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 24.949 | 0.00 | 0.25 |
| 81.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 24.949 | 0.00 | 0.94 |
| 81.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.042 | 0.000 | 24.949 | 0.00 | 2.81 |
| 81.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 24.949 | 0.00 | 0.00 |
| 82.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 25.037 | 0.00 | 0.25 |
| 82.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 25.037 | 0.00 | 0.94 |
| 82.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.042 | 0.000 | 25.037 | 0.00 | 2.81 |
| 82.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 25.037 | 0.00 | 0.00 |
| 84.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.210 | 0.00 | 0.49 |
| 84.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.210 | 0.00 | 1.87 |
| 84.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.043 | 0.000 | 25.210 | 0.00 | 5.62 |
| 84.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.210 | 0.00 | 0.00 |
| 85.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.295 | 0.00 | 0.25 |
| 85.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.295 | 0.00 | 0.94 |
| 85.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.043 | 0.000 | 25.295 | 0.00 | 2.81 |
| 85.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.295 | 0.00 | 0.00 |
| 86.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.380 | 0.00 | 0.25 |
| 86.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.380 | 0.00 | 0.94 |
| 86.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.043 | 0.000 | 25.380 | 0.00 | 2.81 |
| 86.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 25.380 | 0.00 | 0.00 |
| 88.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.547 | 0.00 | 0.49 |
| 88.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.547 | 0.00 | 1.87 |
| 88.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.044 | 0.000 | 25.547 | 0.00 | 5.62 |
| 88.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.547 | 0.00 | 0.00 |
| 90.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.711 | 0.00 | 0.49 |
| 90.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.711 | 0.00 | 1.87 |
| 90.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.044 | 0.000 | 25.711 | 0.00 | 5.62 |
| 90.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.711 | 0.00 | 0.00 |
| 91.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.793 | 0.00 | 0.25 |
| 91.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.793 | 0.00 | 0.94 |
| 91.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.044 | 0.000 | 25.793 | 0.00 | 2.81 |
| 91.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.793 | 0.00 | 0.00 |
| 92.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.873 | 0.00 | 0.25 |
| 92.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.873 | 0.00 | 0.94 |
| 92.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.044 | 0.000 | 25.873 | 0.00 | 2.81 |
| 92.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 25.873 | 0.00 | 0.00 |
| 93.83 | Safety Cable | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 26.019 | 0.00 | 0.45 |
| 93.83 | Step bolts (ladder) | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 26.019 | 0.00 | 1.71 |
| 93.83 | 1 5/8" Coax | Yes | 1.83 | 0.000 | 1.98 | 0.30 | 0.00 | 0.044 | 0.000 | 26.019 | 0.00 | 5.14 |
| 93.83 | C6X10.5 Reinforcing | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 26.019 | 0.00 | 0.00 |
| 94.00 | Safety Cable | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.033 | 0.00 | 0.04 |
| 94.00 | Step bolts (ladder) | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.033 | 0.00 | 0.16 |
| 94.00 | 1 5/8" Coax | Yes | 0.17 | 0.000 | 1.98 | 0.03 | 0.00 | 0.045 | 0.000 | 26.033 | 0.00 | 0.48 |
| 94.00 | C6X10.5 Reinforcing | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.033 | 0.00 | 0.00 |
| 96.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.190 | 0.00 | 0.49 |
| 96.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.190 | 0.00 | 1.87 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 40

Load Case: 0.9D + 1.6W 105 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 30

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 96.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.045 | 0.000 | 26.190 | 0.00 | 5.62 |
| 96.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.190 | 0.00 | 0.00 |
| 98.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.345 | 0.00 | 0.49 |
| 98.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 26.345 | 0.00 | 1.87 |
| 98.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.045 | 0.000 | 26.345 | 0.00 | 5.62 |
| 100.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 26.497 | 0.00 | 0.49 |
| 100.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 26.497 | 0.00 | 1.87 |
| 100.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.046 | 0.000 | 26.497 | 0.00 | 5.62 |
| 102.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 26.648 | 0.00 | 0.49 |
| 102.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 26.648 | 0.00 | 1.87 |
| 102.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.046 | 0.000 | 26.648 | 0.00 | 5.62 |
| 104.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 26.796 | 0.00 | 0.49 |
| 104.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 26.796 | 0.00 | 1.87 |
| 104.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.047 | 0.000 | 26.796 | 0.00 | 5.62 |
| 106.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 26.942 | 0.00 | 0.49 |
| 106.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 26.942 | 0.00 | 1.87 |
| 106.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.047 | 0.000 | 26.942 | 0.00 | 5.62 |
| 108.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 27.086 | 0.00 | 0.49 |
| 108.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 27.086 | 0.00 | 1.87 |
| 108.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.048 | 0.000 | 27.086 | 0.00 | 5.62 |
| 110.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 27.229 | 0.00 | 0.49 |
| 110.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 27.229 | 0.00 | 1.87 |
| 110.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.048 | 0.000 | 27.229 | 0.00 | 5.62 |
| 111.17 | Safety Cable | Yes | 1.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 27.311 | 0.00 | 0.29 |
| 111.17 | Step bolts (ladder) | Yes | 1.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 27.311 | 0.00 | 1.10 |
| 111.17 | 1 5/8" Coax | Yes | 1.17 | 0.000 | 1.98 | 0.19 | 0.00 | 0.049 | 0.000 | 27.311 | 0.00 | 3.29 |
| 111.17 | C6X10.5 Reinforcing | Yes | 1.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 27.311 | 0.00 | 0.00 |
| 112.00 | Safety Cable | Yes | 0.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 27.369 | 0.00 | 0.20 |
| 112.00 | Step bolts (ladder) | Yes | 0.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 27.369 | 0.00 | 0.78 |
| 112.00 | 1 5/8" Coax | Yes | 0.83 | 0.000 | 1.98 | 0.14 | 0.00 | 0.049 | 0.000 | 27.369 | 0.00 | 2.33 |
| 112.00 | C6X10.5 Reinforcing | Yes | 0.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 27.369 | 0.00 | 0.00 |
| 114.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.508 | 0.00 | 0.49 |
| 114.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.508 | 0.00 | 1.87 |
| 114.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.050 | 0.000 | 27.508 | 0.00 | 5.62 |
| 114.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.508 | 0.00 | 0.00 |
| 115.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.577 | 0.00 | 0.25 |
| 115.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.577 | 0.00 | 0.94 |
| 115.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.050 | 0.000 | 27.577 | 0.00 | 2.81 |
| 115.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.577 | 0.00 | 0.00 |
| 116.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.645 | 0.00 | 0.25 |
| 116.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.645 | 0.00 | 0.94 |
| 116.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.050 | 0.000 | 27.645 | 0.00 | 2.81 |
| 116.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 27.645 | 0.00 | 0.00 |
| 118.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.051 | 0.000 | 27.780 | 0.00 | 0.49 |
| 118.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.051 | 0.000 | 27.780 | 0.00 | 1.87 |
| 118.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.051 | 0.000 | 27.780 | 0.00 | 5.62 |
| 118.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.051 | 0.000 | 27.780 | 0.00 | 0.00 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 41

| | |
|--|----------------------|
| Load Case: 0.9D + 1.6W 105 mph Wind | Iterations 30 |
| Dead Load Factor 0.90 | |
| Wind Load Factor 1.60 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 120.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 27.914 | 0.00 | 0.49 |
| 120.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 27.914 | 0.00 | 1.87 |
| 120.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.052 | 0.000 | 27.914 | 0.00 | 5.62 |
| 120.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 27.914 | 0.00 | 0.00 |
| 122.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 28.046 | 0.00 | 0.49 |
| 122.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 28.046 | 0.00 | 1.87 |
| 122.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.052 | 0.000 | 28.046 | 0.00 | 5.62 |
| 122.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 28.046 | 0.00 | 0.00 |
| 123.83 | Safety Cable | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.166 | 0.00 | 0.45 |
| 123.83 | Step bolts (ladder) | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.166 | 0.00 | 1.71 |
| 123.83 | 1 5/8" Coax | Yes | 1.83 | 0.000 | 1.98 | 0.30 | 0.00 | 0.053 | 0.000 | 28.166 | 0.00 | 5.14 |
| 123.83 | C6X10.5 Reinforcing | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.166 | 0.00 | 0.00 |
| 124.00 | Safety Cable | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.177 | 0.00 | 0.04 |
| 124.00 | Step bolts (ladder) | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.177 | 0.00 | 0.16 |
| 124.00 | 1 5/8" Coax | Yes | 0.17 | 0.000 | 1.98 | 0.03 | 0.00 | 0.053 | 0.000 | 28.177 | 0.00 | 0.48 |
| 124.00 | C6X10.5 Reinforcing | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.177 | 0.00 | 0.00 |
| 126.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.306 | 0.00 | 0.49 |
| 126.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.306 | 0.00 | 1.87 |
| 126.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.053 | 0.000 | 28.306 | 0.00 | 5.62 |
| 126.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 28.306 | 0.00 | 0.00 |
| 128.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.054 | 0.000 | 28.434 | 0.00 | 0.49 |
| 128.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.054 | 0.000 | 28.434 | 0.00 | 1.87 |
| 128.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.054 | 0.000 | 28.434 | 0.00 | 5.62 |
| 130.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.055 | 0.000 | 28.560 | 0.00 | 0.49 |
| 130.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.055 | 0.000 | 28.560 | 0.00 | 1.87 |
| 130.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.055 | 0.000 | 28.560 | 0.00 | 5.62 |
| 132.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 28.685 | 0.00 | 0.49 |
| 132.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 28.685 | 0.00 | 1.87 |
| 132.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.056 | 0.000 | 28.685 | 0.00 | 5.62 |
| 134.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 28.808 | 0.00 | 0.49 |
| 134.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 28.808 | 0.00 | 1.87 |
| 134.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.056 | 0.000 | 28.808 | 0.00 | 5.62 |
| 135.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 28.869 | 0.00 | 0.25 |
| 135.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 28.869 | 0.00 | 0.94 |
| 135.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.057 | 0.000 | 28.869 | 0.00 | 2.81 |
| 136.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 28.930 | 0.00 | 0.25 |
| 136.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 28.930 | 0.00 | 0.94 |
| 136.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.057 | 0.000 | 28.930 | 0.00 | 2.81 |
| 138.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 29.051 | 0.00 | 0.49 |
| 138.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 29.051 | 0.00 | 1.87 |
| 138.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.057 | 0.000 | 29.051 | 0.00 | 5.62 |
| 140.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.058 | 0.000 | 29.171 | 0.00 | 0.49 |
| 140.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.058 | 0.000 | 29.171 | 0.00 | 1.87 |
| 140.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.058 | 0.000 | 29.171 | 0.00 | 5.62 |
| 142.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 29.289 | 0.00 | 0.49 |
| 142.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 29.289 | 0.00 | 1.87 |
| 142.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.059 | 0.000 | 29.289 | 0.00 | 5.62 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 42

| | |
|--|----------------------|
| Load Case: 0.9D + 1.6W 105 mph Wind | Iterations 30 |
| Dead Load Factor 0.90 | |
| Wind Load Factor 1.60 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 143.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 29.348 | 0.00 | 0.25 |
| 143.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 29.348 | 0.00 | 0.94 |
| 143.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.059 | 0.000 | 29.348 | 0.00 | 2.81 |
| 144.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 29.407 | 0.00 | 0.25 |
| 144.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 29.407 | 0.00 | 0.94 |
| 144.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.060 | 0.000 | 29.407 | 0.00 | 2.81 |
| 146.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 29.523 | 0.00 | 0.49 |
| 146.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 29.523 | 0.00 | 1.87 |
| 146.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.060 | 0.000 | 29.523 | 0.00 | 5.62 |
| 148.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.061 | 0.000 | 29.638 | 0.00 | 0.49 |
| 148.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.061 | 0.000 | 29.638 | 0.00 | 1.87 |
| 148.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.061 | 0.000 | 29.638 | 0.00 | 5.62 |
| 150.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.062 | 0.000 | 29.752 | 0.00 | 0.49 |
| 150.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.062 | 0.000 | 29.752 | 0.00 | 1.87 |
| 150.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.062 | 0.000 | 29.752 | 0.00 | 5.62 |
| 152.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.063 | 0.000 | 29.865 | 0.00 | 0.49 |
| 152.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.063 | 0.000 | 29.865 | 0.00 | 1.87 |
| 152.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.063 | 0.000 | 29.865 | 0.00 | 5.62 |
| 153.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 29.921 | 0.00 | 0.25 |
| 153.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 29.921 | 0.00 | 0.94 |
| 153.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.064 | 0.000 | 29.921 | 0.00 | 2.81 |
| 154.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 29.976 | 0.00 | 0.25 |
| 154.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 29.976 | 0.00 | 0.94 |
| 154.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.064 | 0.000 | 29.976 | 0.00 | 2.81 |
| 156.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.065 | 0.000 | 30.087 | 0.00 | 0.49 |
| 156.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.065 | 0.000 | 30.087 | 0.00 | 1.87 |
| 156.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.065 | 0.000 | 30.087 | 0.00 | 5.62 |
| 158.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.066 | 0.000 | 30.197 | 0.00 | 0.49 |
| 158.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.066 | 0.000 | 30.197 | 0.00 | 1.87 |
| 158.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.066 | 0.000 | 30.197 | 0.00 | 5.62 |
| 160.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.067 | 0.000 | 30.305 | 0.00 | 0.49 |
| 160.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.067 | 0.000 | 30.305 | 0.00 | 1.87 |
| 160.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.067 | 0.000 | 30.305 | 0.00 | 5.62 |
| 162.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.068 | 0.000 | 30.413 | 0.00 | 0.49 |
| 162.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.068 | 0.000 | 30.413 | 0.00 | 1.87 |
| 162.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.068 | 0.000 | 30.413 | 0.00 | 5.62 |
| 163.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.069 | 0.000 | 30.467 | 0.00 | 0.25 |
| 163.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.069 | 0.000 | 30.467 | 0.00 | 0.94 |
| 163.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.069 | 0.000 | 30.467 | 0.00 | 2.81 |
| 164.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.070 | 0.000 | 30.520 | 0.00 | 0.25 |
| 164.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.070 | 0.000 | 30.520 | 0.00 | 0.94 |
| 164.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.070 | 0.000 | 30.520 | 0.00 | 2.81 |
| 166.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.071 | 0.000 | 30.626 | 0.00 | 0.49 |
| 166.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.071 | 0.000 | 30.626 | 0.00 | 1.87 |
| 166.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.071 | 0.000 | 30.626 | 0.00 | 5.62 |
| 168.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.072 | 0.000 | 30.731 | 0.00 | 0.49 |
| 168.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.072 | 0.000 | 30.731 | 0.00 | 1.87 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |

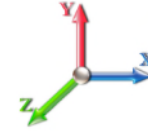


Page: 43

Load Case: 0.9D + 1.6W 105 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 30

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|----------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|------------|----------------|
| 168.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.072 | 0.000 | 30.731 | 0.00 | 5.62 |
| 170.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.073 | 0.000 | 30.835 | 0.00 | 0.49 |
| 170.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.073 | 0.000 | 30.835 | 0.00 | 1.87 |
| 170.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.073 | 0.000 | 30.835 | 0.00 | 5.62 |
| 172.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.075 | 0.000 | 30.938 | 0.00 | 0.49 |
| 172.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.075 | 0.000 | 30.938 | 0.00 | 1.87 |
| 172.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.075 | 0.000 | 30.938 | 0.00 | 5.62 |
| 173.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.076 | 0.000 | 30.989 | 0.00 | 0.25 |
| 173.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.076 | 0.000 | 30.989 | 0.00 | 0.94 |
| 173.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.076 | 0.000 | 30.989 | 0.00 | 2.81 |
| 174.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.041 | 0.00 | 0.25 |
| 174.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.041 | 0.00 | 0.94 |
| 176.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.142 | 0.00 | 0.49 |
| 176.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.142 | 0.00 | 1.87 |
| 178.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.243 | 0.00 | 0.49 |
| 178.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.243 | 0.00 | 1.87 |
| 180.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.343 | 0.00 | 0.49 |
| 180.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.343 | 0.00 | 1.87 |
| 181.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.392 | 0.00 | 0.25 |
| 181.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.392 | 0.00 | 0.94 |
| 182.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.442 | 0.00 | 0.25 |
| 182.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.442 | 0.00 | 0.94 |
| 183.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.491 | 0.00 | 0.25 |
| 183.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 31.491 | 0.00 | 0.94 |
| Totals: | | | | | | | | | | | 0.0 | 702.0 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



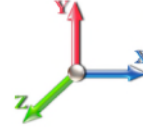
Page: 44

Load Case: 0.9D + 1.6W 105 mph Wind

Iterations 30

Dead Load Factor 0.90

Wind Load Factor 1.60



| 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 Sway (deg) | Rotation Twist (deg) | Stress Ratio |
|---------------|------------------|------------------|---------------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|---------------------|----------------------|--------------|
| 0.00 | -46.97 | -38.61 | 0.00 | -4964.1 | 0.00 | 4964.13 | 5190.16 | 2595.08 | 13702.9 | 6861.66 | 0.00 | 0.000 | 0.000 | 0.733 |
| 2.00 | -46.38 | -38.43 | 0.00 | -4886.9 | 0.00 | 4886.91 | 5174.50 | 2587.25 | 13560.7 | 6790.43 | 0.02 | -0.071 | 0.000 | 0.729 |
| 4.00 | -45.79 | -38.26 | 0.00 | -4810.0 | 0.00 | 4810.04 | 5158.51 | 2579.25 | 13418.2 | 6719.08 | 0.06 | -0.142 | 0.000 | 0.725 |
| 6.00 | -45.20 | -38.08 | 0.00 | -4733.5 | 0.00 | 4733.53 | 5142.18 | 2571.09 | 13275.4 | 6647.61 | 0.14 | -0.213 | 0.000 | 0.721 |
| 8.00 | -44.62 | -37.91 | 0.00 | -4657.3 | 0.00 | 4657.36 | 5125.52 | 2562.76 | 13132.5 | 6576.03 | 0.24 | -0.285 | 0.000 | 0.717 |
| 10.00 | -44.04 | -37.74 | 0.00 | -4581.5 | 0.00 | 4581.54 | 5108.53 | 2554.27 | 12989.4 | 6504.36 | 0.38 | -0.358 | 0.000 | 0.713 |
| 12.00 | -43.47 | -37.56 | 0.00 | -4506.0 | 0.00 | 4506.07 | 5091.21 | 2545.61 | 12846.0 | 6432.60 | 0.54 | -0.431 | 0.000 | 0.709 |
| 14.00 | -42.89 | -37.39 | 0.00 | -4430.9 | 0.00 | 4430.95 | 5073.56 | 2536.78 | 12702.6 | 6360.75 | 0.74 | -0.504 | 0.000 | 0.705 |
| 16.00 | -42.33 | -37.22 | 0.00 | -4356.1 | 0.00 | 4356.17 | 5055.57 | 2527.79 | 12559.0 | 6288.85 | 0.97 | -0.578 | 0.000 | 0.701 |
| 18.00 | -41.76 | -37.05 | 0.00 | -4281.7 | 0.00 | 4281.74 | 5037.25 | 2518.63 | 12415.3 | 6216.88 | 1.23 | -0.652 | 0.000 | 0.697 |
| 20.00 | -41.20 | -36.88 | 0.00 | -4207.6 | 0.00 | 4207.64 | 5018.60 | 2509.30 | 12271.4 | 6144.86 | 1.52 | -0.727 | 0.000 | 0.693 |
| 22.00 | -40.64 | -36.71 | 0.00 | -4133.8 | 0.00 | 4133.89 | 4999.62 | 2499.81 | 12127.5 | 6072.81 | 1.84 | -0.802 | 0.000 | 0.689 |
| 24.00 | -40.09 | -36.54 | 0.00 | -4060.4 | 0.00 | 4060.48 | 4980.31 | 2490.15 | 11983.6 | 6000.72 | 2.19 | -0.878 | 0.000 | 0.685 |
| 26.00 | -39.54 | -36.37 | 0.00 | -3987.4 | 0.00 | 3987.40 | 4960.66 | 2480.33 | 11839.6 | 5928.62 | 2.58 | -0.954 | 0.000 | 0.681 |
| 28.00 | -38.99 | -36.20 | 0.00 | -3914.6 | 0.00 | 3914.66 | 4940.68 | 2470.34 | 11695.6 | 5856.50 | 2.99 | -1.031 | 0.000 | 0.677 |
| 30.00 | -38.45 | -36.04 | 0.00 | -3842.2 | 0.00 | 3842.26 | 4920.37 | 2460.19 | 11551.6 | 5784.39 | 3.44 | -1.108 | 0.000 | 0.672 |
| 32.00 | -37.91 | -35.87 | 0.00 | -3770.1 | 0.00 | 3770.19 | 4899.73 | 2449.87 | 11407.6 | 5712.28 | 3.92 | -1.186 | 0.000 | 0.668 |
| 34.00 | -37.38 | -35.69 | 0.00 | -3698.4 | 0.00 | 3698.46 | 4878.76 | 2439.38 | 11263.6 | 5640.19 | 4.44 | -1.263 | 0.000 | 0.664 |
| 36.00 | -36.84 | -35.52 | 0.00 | -3627.0 | 0.00 | 3627.08 | 4857.45 | 2428.72 | 11119.7 | 5568.14 | 4.98 | -1.342 | 0.000 | 0.659 |
| 38.00 | -36.32 | -35.34 | 0.00 | -3556.0 | 0.00 | 3556.05 | 4835.81 | 2417.91 | 10975.9 | 5496.12 | 5.56 | -1.421 | 0.000 | 0.655 |
| 40.00 | -35.80 | -35.14 | 0.00 | -3485.3 | 0.00 | 3485.38 | 4813.84 | 2406.92 | 10832.2 | 5424.15 | 6.17 | -1.500 | 0.000 | 0.650 |
| 41.00 | -35.54 | -35.05 | 0.00 | -3450.2 | 0.00 | 3450.23 | 4802.73 | 2401.36 | 10760.3 | 5388.18 | 6.49 | -1.540 | 0.000 | 0.648 |
| 42.00 | -35.07 | -34.97 | 0.00 | -3415.1 | 0.00 | 3415.18 | 4791.54 | 2395.77 | 10688.5 | 5352.24 | 6.82 | -1.580 | 0.000 | 0.646 |
| 44.00 | -34.15 | -34.77 | 0.00 | -3345.2 | 0.00 | 3345.25 | 4768.90 | 2384.45 | 10545.1 | 5280.39 | 7.50 | -1.660 | 0.000 | 0.641 |
| 46.00 | -33.25 | -34.56 | 0.00 | -3275.7 | 0.00 | 3275.72 | 4745.94 | 2372.97 | 10401.7 | 5208.63 | 8.21 | -1.741 | 0.000 | 0.636 |
| 48.00 | -32.35 | -34.36 | 0.00 | -3206.5 | 0.00 | 3206.59 | 4759.60 | 2379.80 | 10486.7 | 5251.18 | 8.96 | -1.822 | 0.000 | 0.618 |
| 50.00 | -31.85 | -34.15 | 0.00 | -3137.8 | 0.00 | 3137.88 | 4736.50 | 2368.25 | 10343.5 | 5179.45 | 9.74 | -1.903 | 0.000 | 0.613 |
| 51.00 | -31.59 | -34.05 | 0.00 | -3103.7 | 0.00 | 3103.73 | 4724.82 | 2362.41 | 10271.9 | 5143.62 | 10.14 | -1.943 | 0.000 | 0.610 |
| 51.00 | -31.59 | -34.05 | 0.00 | -3103.7 | 0.00 | 3103.73 | 4064.30 | 2032.15 | 8835.99 | 4424.56 | 10.14 | -1.943 | 0.000 | 0.710 |
| 52.00 | -31.33 | -33.96 | 0.00 | -3069.6 | 0.00 | 3069.68 | 4053.20 | 2026.60 | 8772.35 | 4392.70 | 10.56 | -1.982 | 0.000 | 0.707 |
| 54.00 | -30.83 | -33.76 | 0.00 | -3001.7 | 0.00 | 3001.75 | 4030.83 | 2015.41 | 8645.34 | 4329.09 | 11.40 | -2.061 | 0.000 | 0.701 |
| 56.00 | -30.33 | -33.56 | 0.00 | -2934.2 | 0.00 | 2934.23 | 4008.20 | 2004.10 | 8518.66 | 4265.66 | 12.28 | -2.140 | 0.000 | 0.696 |
| 58.00 | -29.84 | -33.36 | 0.00 | -2867.1 | 0.00 | 2867.12 | 3985.33 | 1992.66 | 8392.33 | 4202.40 | 13.20 | -2.220 | 0.000 | 0.690 |
| 60.00 | -29.35 | -33.15 | 0.00 | -2800.4 | 0.00 | 2800.40 | 3962.20 | 1981.10 | 8266.38 | 4139.33 | 14.15 | -2.300 | 0.000 | 0.684 |
| 62.00 | -28.87 | -32.95 | 0.00 | -2734.1 | 0.00 | 2734.10 | 3938.82 | 1969.41 | 8140.81 | 4076.46 | 15.13 | -2.380 | 0.000 | 0.678 |
| 64.00 | -28.38 | -32.74 | 0.00 | -2668.2 | 0.00 | 2668.21 | 3915.19 | 1957.60 | 8015.64 | 4013.78 | 16.14 | -2.460 | 0.000 | 0.672 |
| 66.00 | -27.93 | -32.51 | 0.00 | -2602.7 | 0.00 | 2602.73 | 3891.31 | 1945.66 | 7890.88 | 3951.30 | 17.19 | -2.541 | 0.000 | 0.666 |
| 66.17 | -27.87 | -32.51 | 0.00 | -2597.2 | 0.00 | 2597.20 | 3889.27 | 1944.64 | 7880.29 | 3946.00 | 17.28 | -2.548 | 0.000 | 0.488 |
| 68.00 | -27.45 | -32.31 | 0.00 | -2537.7 | 0.00 | 2537.71 | 3867.19 | 1933.59 | 7766.55 | 3889.05 | 18.27 | -2.602 | 0.000 | 0.482 |
| 70.00 | -27.00 | -32.08 | 0.00 | -2473.0 | 0.00 | 2473.09 | 3842.81 | 1921.40 | 7642.66 | 3827.01 | 19.37 | -2.662 | 0.000 | 0.476 |
| 71.00 | -26.77 | -31.98 | 0.00 | -2441.0 | 0.00 | 2441.01 | 3830.52 | 1915.26 | 7580.89 | 3796.08 | 19.93 | -2.691 | 0.000 | 0.473 |
| 71.00 | -26.77 | -31.98 | 0.00 | -2441.0 | 0.00 | 2441.01 | 3467.89 | 1733.95 | 6863.13 | 3436.66 | 19.93 | -2.691 | 0.000 | 0.523 |
| 72.00 | -26.54 | -31.87 | 0.00 | -2409.0 | 0.00 | 2409.04 | 3456.29 | 1728.14 | 6806.46 | 3408.29 | 20.50 | -2.721 | 0.000 | 0.519 |
| 74.00 | -26.09 | -31.65 | 0.00 | -2345.2 | 0.00 | 2345.29 | 3432.92 | 1716.46 | 6693.50 | 3351.73 | 21.65 | -2.781 | 0.000 | 0.513 |
| 76.00 | -25.64 | -31.43 | 0.00 | -2281.9 | 0.00 | 2281.99 | 3409.33 | 1704.67 | 6581.05 | 3295.42 | 22.83 | -2.840 | 0.000 | 0.506 |
| 78.00 | -25.20 | -31.21 | 0.00 | -2219.1 | 0.00 | 2219.12 | 3385.54 | 1692.77 | 6469.11 | 3239.36 | 24.03 | -2.899 | 0.000 | 0.499 |
| 80.00 | -24.77 | -30.99 | 0.00 | -2156.6 | 0.00 | 2156.69 | 3361.54 | 1680.77 | 6357.71 | 3183.58 | 25.26 | -2.958 | 0.000 | 0.492 |
| 81.00 | -24.56 | -30.88 | 0.00 | -2125.7 | 0.00 | 2125.71 | 3349.46 | 1674.73 | 6302.21 | 3155.79 | 25.88 | -2.988 | 0.000 | 0.488 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 45

| | | | | | | | | | | | | | | |
|--------|--------|--------|------|---------|------|---------|---------|---------|---------|---------|--------|--------|-------|-------|
| 81.00 | -24.56 | -30.88 | 0.00 | -2125.7 | 0.00 | 2125.71 | 2964.88 | 1482.44 | 5593.85 | 2801.08 | 25.88 | -2.988 | 0.000 | 0.460 |
| 82.00 | -24.36 | -30.78 | 0.00 | -2094.8 | 0.00 | 2094.83 | 2956.03 | 1478.01 | 5548.33 | 2778.29 | 26.51 | -3.018 | 0.000 | 0.517 |
| 84.00 | -23.99 | -30.56 | 0.00 | -2033.2 | 0.00 | 2033.28 | 2938.12 | 1469.06 | 5457.44 | 2732.78 | 27.79 | -3.085 | 0.000 | 0.508 |
| 85.00 | -23.80 | -30.45 | 0.00 | -2002.7 | 0.00 | 2002.72 | 2929.07 | 1464.54 | 5412.08 | 2710.06 | 28.44 | -3.118 | 0.000 | 0.503 |
| 86.00 | -23.46 | -30.34 | 0.00 | -1972.2 | 0.00 | 1972.27 | 2919.96 | 1459.98 | 5366.77 | 2687.37 | 29.09 | -3.152 | 0.000 | 0.495 |
| 88.00 | -22.82 | -30.11 | 0.00 | -1911.5 | 0.00 | 1911.59 | 2901.53 | 1450.76 | 5276.32 | 2642.08 | 30.43 | -3.217 | 0.000 | 0.486 |
| 90.00 | -22.19 | -29.87 | 0.00 | -1851.3 | 0.00 | 1851.38 | 2882.84 | 1441.42 | 5186.12 | 2596.92 | 31.79 | -3.283 | 0.000 | 0.476 |
| 91.00 | -21.87 | -29.75 | 0.00 | -1821.5 | 0.00 | 1821.51 | 2898.35 | 1449.17 | 5260.87 | 2634.34 | 32.48 | -3.316 | 0.000 | 0.481 |
| 92.00 | -21.68 | -29.65 | 0.00 | -1791.7 | 0.00 | 1791.76 | 2889.01 | 1444.51 | 5215.76 | 2611.76 | 33.18 | -3.349 | 0.000 | 0.463 |
| 93.83 | -21.36 | -29.44 | 0.00 | -1737.5 | 0.00 | 1737.50 | 2871.76 | 1435.88 | 5133.38 | 2570.50 | 34.47 | -3.406 | 0.000 | 0.455 |
| 93.83 | -21.36 | -29.44 | 0.00 | -1737.5 | 0.00 | 1737.50 | 2871.76 | 1435.88 | 5133.38 | 2570.50 | 34.47 | -3.406 | 0.000 | 0.455 |
| 94.00 | -21.30 | -29.44 | 0.00 | -1732.5 | 0.00 | 1732.50 | 2870.15 | 1435.07 | 5125.73 | 2566.68 | 34.59 | -3.412 | 0.000 | 0.683 |
| 96.00 | -20.93 | -29.23 | 0.00 | -1673.6 | 0.00 | 1673.62 | 2851.02 | 1425.51 | 5035.98 | 2521.73 | 36.04 | -3.506 | 0.000 | 0.671 |
| 98.00 | -20.55 | -29.02 | 0.00 | -1615.1 | 0.00 | 1615.16 | 2831.62 | 1415.81 | 4946.52 | 2476.93 | 37.53 | -3.600 | 0.000 | 0.660 |
| 100.00 | -20.18 | -28.82 | 0.00 | -1557.1 | 0.00 | 1557.11 | 2811.97 | 1405.98 | 4857.35 | 2432.29 | 39.06 | -3.694 | 0.000 | 0.648 |
| 102.00 | -19.82 | -28.61 | 0.00 | -1499.4 | 0.00 | 1499.47 | 2792.05 | 1396.03 | 4768.51 | 2387.80 | 40.63 | -3.788 | 0.000 | 0.635 |
| 104.00 | -19.45 | -28.41 | 0.00 | -1442.2 | 0.00 | 1442.25 | 2771.87 | 1385.94 | 4680.00 | 2343.48 | 42.23 | -3.881 | 0.000 | 0.623 |
| 106.00 | -19.10 | -28.21 | 0.00 | -1385.4 | 0.00 | 1385.44 | 2751.43 | 1375.71 | 4591.84 | 2299.33 | 43.88 | -3.973 | 0.000 | 0.610 |
| 108.00 | -18.74 | -28.02 | 0.00 | -1329.0 | 0.00 | 1329.02 | 2730.72 | 1365.36 | 4504.04 | 2255.37 | 45.56 | -4.065 | 0.000 | 0.597 |
| 110.00 | -18.40 | -27.82 | 0.00 | -1272.9 | 0.00 | 1272.98 | 2709.75 | 1354.88 | 4416.62 | 2211.59 | 47.28 | -4.157 | 0.000 | 0.583 |
| 111.17 | -18.20 | -27.70 | 0.00 | -1240.4 | 0.00 | 1240.43 | 2697.36 | 1348.68 | 4365.66 | 2186.08 | 48.31 | -4.210 | 0.000 | 0.458 |
| 112.00 | -18.05 | -27.63 | 0.00 | -1217.4 | 0.00 | 1217.43 | 2688.52 | 1344.26 | 4329.60 | 2168.02 | 49.04 | -4.240 | 0.000 | 0.453 |
| 114.00 | -17.72 | -27.43 | 0.00 | -1162.1 | 0.00 | 1162.18 | 2667.03 | 1333.51 | 4242.98 | 2124.64 | 50.83 | -4.312 | 0.000 | 0.440 |
| 115.00 | -17.55 | -27.32 | 0.00 | -1134.7 | 0.00 | 1134.75 | 2656.18 | 1328.09 | 4199.83 | 2103.04 | 51.74 | -4.348 | 0.000 | 0.423 |
| 115.00 | -17.55 | -27.32 | 0.00 | -1134.7 | 0.00 | 1134.75 | 1951.15 | 975.57 | 3095.05 | 1549.82 | 51.74 | -4.348 | 0.000 | 0.462 |
| 116.00 | -17.40 | -27.22 | 0.00 | -1107.4 | 0.00 | 1107.43 | 1944.57 | 972.29 | 3065.67 | 1535.11 | 52.65 | -4.382 | 0.000 | 0.536 |
| 118.00 | -17.12 | -27.02 | 0.00 | -1052.9 | 0.00 | 1052.98 | 1931.24 | 965.62 | 3006.98 | 1505.73 | 54.50 | -4.462 | 0.000 | 0.518 |
| 120.00 | -16.83 | -26.82 | 0.00 | -998.94 | 0.00 | 998.94 | 1917.63 | 958.82 | 2948.42 | 1476.40 | 56.39 | -4.540 | 0.000 | 0.499 |
| 122.00 | -16.55 | -26.62 | 0.00 | -945.30 | 0.00 | 945.30 | 1903.77 | 951.88 | 2889.98 | 1447.14 | 58.31 | -4.617 | 0.000 | 0.480 |
| 123.83 | -16.32 | -26.43 | 0.00 | -896.59 | 0.00 | 896.59 | 1890.85 | 945.43 | 2836.64 | 1420.43 | 60.09 | -4.686 | 0.000 | 0.462 |
| 123.83 | -16.32 | -26.43 | 0.00 | -896.59 | 0.00 | 896.59 | 1890.85 | 945.43 | 2836.64 | 1420.43 | 60.09 | -4.686 | 0.000 | 0.462 |
| 124.00 | -16.27 | -26.42 | 0.00 | -892.10 | 0.00 | 892.10 | 1889.64 | 944.82 | 2831.69 | 1417.95 | 60.25 | -4.692 | 0.000 | 0.639 |
| 126.00 | -15.99 | -26.23 | 0.00 | -839.25 | 0.00 | 839.25 | 1875.25 | 937.63 | 2773.56 | 1388.84 | 62.24 | -4.794 | 0.000 | 0.614 |
| 128.00 | -15.70 | -26.04 | 0.00 | -786.79 | 0.00 | 786.79 | 1860.60 | 930.30 | 2715.62 | 1359.83 | 64.27 | -4.893 | 0.000 | 0.588 |
| 130.00 | -15.43 | -25.85 | 0.00 | -734.71 | 0.00 | 734.71 | 1845.69 | 922.84 | 2657.86 | 1330.91 | 66.34 | -4.990 | 0.000 | 0.561 |
| 132.00 | -14.98 | -25.64 | 0.00 | -683.02 | 0.00 | 683.02 | 1830.51 | 915.25 | 2600.31 | 1302.09 | 68.45 | -5.083 | 0.000 | 0.534 |
| 134.00 | -14.56 | -25.42 | 0.00 | -631.74 | 0.00 | 631.74 | 1815.07 | 907.53 | 2542.99 | 1273.39 | 70.59 | -5.174 | 0.000 | 0.505 |
| 135.00 | -14.34 | -25.32 | 0.00 | -606.32 | 0.00 | 606.32 | 1823.79 | 911.89 | 2575.21 | 1289.52 | 71.68 | -5.218 | 0.000 | 0.479 |
| 136.00 | -14.20 | -25.23 | 0.00 | -581.00 | 0.00 | 581.00 | 1816.04 | 908.02 | 2546.57 | 1275.18 | 72.78 | -5.262 | 0.000 | 0.464 |
| 138.00 | -13.94 | -25.03 | 0.00 | -530.55 | 0.00 | 530.55 | 1800.35 | 900.18 | 2489.47 | 1246.58 | 75.00 | -5.341 | 0.000 | 0.434 |
| 140.00 | -13.68 | -24.84 | 0.00 | -480.49 | 0.00 | 480.49 | 1784.41 | 892.20 | 2432.62 | 1218.12 | 77.25 | -5.417 | 0.000 | 0.403 |
| 142.00 | -13.44 | -24.64 | 0.00 | -430.81 | 0.00 | 430.81 | 1768.19 | 884.10 | 2376.04 | 1189.79 | 79.53 | -5.488 | 0.000 | 0.370 |
| 143.00 | -11.20 | -19.45 | 0.00 | -406.17 | 0.00 | 406.17 | 1759.99 | 879.99 | 2347.86 | 1175.68 | 80.68 | -5.522 | 0.000 | 0.352 |
| 144.00 | -11.08 | -19.36 | 0.00 | -386.73 | 0.00 | 386.73 | 1751.72 | 875.86 | 2319.75 | 1161.60 | 81.84 | -5.554 | 0.000 | 0.340 |
| 146.00 | -10.87 | -19.16 | 0.00 | -348.01 | 0.00 | 348.01 | 1734.98 | 867.49 | 2263.76 | 1133.56 | 84.18 | -5.617 | 0.000 | 0.314 |
| 148.00 | -10.66 | -18.97 | 0.00 | -309.69 | 0.00 | 309.69 | 1717.98 | 858.99 | 2208.08 | 1105.68 | 86.54 | -5.675 | 0.000 | 0.287 |
| 150.00 | -10.46 | -18.78 | 0.00 | -271.75 | 0.00 | 271.75 | 1700.72 | 850.36 | 2152.74 | 1077.97 | 88.93 | -5.729 | 0.000 | 0.259 |
| 152.00 | -10.26 | -18.59 | 0.00 | -234.19 | 0.00 | 234.19 | 1683.20 | 841.60 | 2097.74 | 1050.43 | 91.34 | -5.778 | 0.000 | 0.230 |
| 153.00 | -7.85 | -12.76 | 0.00 | -215.60 | 0.00 | 215.60 | 1674.33 | 837.17 | 2070.37 | 1036.72 | 92.55 | -5.801 | 0.000 | 0.213 |
| 154.00 | -7.76 | -12.67 | 0.00 | -202.84 | 0.00 | 202.84 | 1665.41 | 832.70 | 2043.10 | 1023.07 | 93.76 | -5.823 | 0.000 | 0.203 |
| 156.00 | -7.59 | -12.48 | 0.00 | -177.50 | 0.00 | 177.50 | 1647.36 | 823.68 | 1988.83 | 995.90 | 96.21 | -5.863 | 0.000 | 0.183 |
| 158.00 | -6.20 | -10.99 | 0.00 | -152.54 | 0.00 | 152.54 | 1629.04 | 814.52 | 1934.96 | 968.92 | 98.67 | -5.900 | 0.000 | 0.161 |
| 160.00 | -6.04 | -10.81 | 0.00 | -130.55 | 0.00 | 130.55 | 1610.47 | 805.23 | 1881.50 | 942.15 | 101.14 | -5.933 | 0.000 | 0.142 |
| 162.00 | -5.88 | -10.63 | 0.00 | -108.93 | 0.00 | 108.93 | 1591.63 | 795.82 | 1828.46 | 915.59 | 103.63 | -5.963 | 0.000 | 0.123 |
| 163.00 | -4.45 | -8.66 | 0.00 | -98.30 | 0.00 | 98.30 | 1582.11 | 791.06 | 1802.10 | 902.39 | 104.88 | -5.976 | 0.000 | 0.112 |
| 164.00 | -4.38 | -8.58 | 0.00 | -89.63 | 0.00 | 89.63 | 1572.53 | 786.27 | 1775.86 | 889.25 | 106.13 | -5.989 | 0.000 | 0.104 |
| 166.00 | -4.23 | -8.40 | 0.00 | -72.48 | 0.00 | 72.48 | 1553.17 | 776.58 | 1723.71 | 863.13 | 108.64 | -6.011 | 0.000 | 0.087 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 46

| | | | | | | | | | | | | | | |
|--------|-------|-------|------|--------|------|-------|---------|--------|---------|--------|--------|--------|-------|-------|
| 168.00 | -4.09 | -8.22 | 0.00 | -55.69 | 0.00 | 55.69 | 1533.54 | 766.77 | 1672.03 | 837.26 | 111.16 | -6.029 | 0.000 | 0.069 |
| 170.00 | -3.95 | -8.05 | 0.00 | -39.25 | 0.00 | 39.25 | 1513.65 | 756.83 | 1620.83 | 811.62 | 113.68 | -6.043 | 0.000 | 0.051 |
| 172.00 | -3.81 | -7.88 | 0.00 | -23.15 | 0.00 | 23.15 | 1493.50 | 746.75 | 1570.13 | 786.23 | 116.21 | -6.053 | 0.000 | 0.032 |
| 173.00 | -1.76 | -2.14 | 0.00 | -15.27 | 0.00 | 15.27 | 1483.33 | 741.66 | 1544.98 | 773.64 | 117.48 | -6.057 | 0.000 | 0.021 |
| 174.00 | -1.70 | -2.05 | 0.00 | -13.14 | 0.00 | 13.14 | 1473.09 | 736.54 | 1519.95 | 761.10 | 118.74 | -6.059 | 0.000 | 0.018 |
| 176.00 | -1.60 | -1.89 | 0.00 | -9.03 | 0.00 | 9.03 | 1452.41 | 726.20 | 1470.30 | 736.24 | 121.28 | -6.063 | 0.000 | 0.013 |
| 178.00 | -1.49 | -1.73 | 0.00 | -5.25 | 0.00 | 5.25 | 1427.85 | 713.93 | 1417.60 | 709.85 | 123.81 | -6.066 | 0.000 | 0.008 |
| 180.00 | -1.39 | -1.57 | 0.00 | -1.79 | 0.00 | 1.79 | 1400.09 | 700.05 | 1362.74 | 682.38 | 126.35 | -6.067 | 0.000 | 0.004 |
| 180.00 | -1.39 | -1.57 | 0.00 | -1.79 | 0.00 | 1.79 | 678.42 | 339.21 | 662.23 | 396.30 | 126.35 | -6.067 | 0.000 | 0.007 |
| 181.00 | -0.12 | -0.15 | 0.00 | -0.22 | 0.00 | 0.22 | 678.42 | 339.21 | 662.23 | 396.30 | 127.62 | -6.067 | 0.000 | 0.001 |
| 182.00 | -0.06 | -0.07 | 0.00 | -0.07 | 0.00 | 0.07 | 678.42 | 339.21 | 662.23 | 396.30 | 128.89 | -6.067 | 0.000 | 0.000 |
| 183.00 | 0.00 | -0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 678.42 | 339.21 | 662.23 | 396.30 | 130.15 | -6.067 | 0.000 | 0.000 |

Wind Loading - Shaft

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |

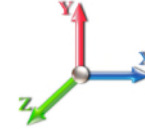


Page: 47

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 29

Dead Load Factor 1.20
Wind Load Factor 1.00



| Elev (ft) | Description | Kzt | Kz | qz (psf) | qzGh (psf) | C (mph-ft) | Cf | Ice Thick (in) | Tributary (ft) | Aa (sf) | CfAa (sf) | Wind Force X (lb) | Dead Load Ice (lb) | Tot Dead Load (lb) |
|-----------|-----------------|------|------|----------|------------|------------|-------|----------------|----------------|---------|-----------|-------------------|--------------------|--------------------|
| 0.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 0.000 | 0.00 | 0.000 | 0.00 | 0.0 | 0.0 | 0.0 |
| 2.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.133 | 2.00 | 11.254 | 13.50 | 63.2 | 183.2 | 804.2 |
| 4.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.215 | 2.00 | 11.201 | 13.44 | 62.9 | 195.2 | 811.6 |
| 6.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.265 | 2.00 | 11.138 | 13.37 | 62.6 | 201.9 | 813.8 |
| 8.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.302 | 2.00 | 11.071 | 13.29 | 62.2 | 206.4 | 813.7 |
| 10.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.331 | 2.00 | 11.001 | 13.20 | 61.8 | 209.6 | 812.3 |
| 12.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.356 | 2.00 | 10.929 | 13.12 | 61.4 | 211.9 | 810.1 |
| 14.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.377 | 2.00 | 10.857 | 13.03 | 61.0 | 213.7 | 807.2 |
| 16.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.395 | 2.00 | 10.783 | 12.94 | 60.6 | 215.0 | 804.0 |
| 18.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.412 | 2.00 | 10.709 | 12.85 | 60.2 | 216.0 | 800.4 |
| 20.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.427 | 2.00 | 10.634 | 12.76 | 59.7 | 216.6 | 796.5 |
| 22.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.440 | 2.00 | 10.559 | 12.67 | 59.3 | 217.1 | 792.3 |
| 24.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.453 | 2.00 | 10.484 | 12.58 | 58.9 | 217.3 | 788.0 |
| 26.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.465 | 2.00 | 10.408 | 12.49 | 58.5 | 217.4 | 783.5 |
| 28.00 | | 1.00 | 0.70 | 4.256 | 4.68 | 0.00 | 1.200 | 1.476 | 2.00 | 10.332 | 12.40 | 58.0 | 217.3 | 778.8 |
| 30.00 | | 1.00 | 0.70 | 4.260 | 4.69 | 0.00 | 1.200 | 1.486 | 2.00 | 10.256 | 12.31 | 57.7 | 217.1 | 774.1 |
| 32.00 | | 1.00 | 0.71 | 4.339 | 4.77 | 0.00 | 1.200 | 1.495 | 2.00 | 10.179 | 12.22 | 58.3 | 216.8 | 769.2 |
| 34.00 | | 1.00 | 0.73 | 4.415 | 4.86 | 0.00 | 1.200 | 1.504 | 2.00 | 10.103 | 12.12 | 58.9 | 216.4 | 764.2 |
| 36.00 | | 1.00 | 0.74 | 4.487 | 4.94 | 0.00 | 1.200 | 1.513 | 2.00 | 10.026 | 12.03 | 59.4 | 215.9 | 759.1 |
| 38.00 | | 1.00 | 0.75 | 4.557 | 5.01 | 0.00 | 1.200 | 1.521 | 2.00 | 9.949 | 11.94 | 59.8 | 215.4 | 754.0 |
| 40.00 | | 1.00 | 0.76 | 4.625 | 5.09 | 0.00 | 1.200 | 1.529 | 2.00 | 9.872 | 11.85 | 60.3 | 214.7 | 748.8 |
| 41.00 | Bot - Section 2 | 1.00 | 0.77 | 4.657 | 5.12 | 0.00 | 1.200 | 1.533 | 1.00 | 4.907 | 5.89 | 30.2 | 107.2 | 372.5 |
| 42.00 | | 1.00 | 0.77 | 4.689 | 5.16 | 0.00 | 1.200 | 1.537 | 1.00 | 4.951 | 5.94 | 30.6 | 108.4 | 640.4 |
| 44.00 | | 1.00 | 0.78 | 4.752 | 5.23 | 0.00 | 1.200 | 1.544 | 2.00 | 9.844 | 11.81 | 61.8 | 216.1 | 1273.2 |
| 46.00 | | 1.00 | 0.79 | 4.813 | 5.29 | 0.00 | 1.200 | 1.551 | 2.00 | 9.767 | 11.72 | 62.0 | 215.3 | 1263.2 |
| 48.00 | Top - Section 1 | 1.00 | 0.80 | 4.872 | 5.36 | 0.00 | 1.200 | 1.557 | 2.00 | 9.689 | 11.63 | 62.3 | 214.4 | 1253.2 |
| 50.00 | | 1.00 | 0.81 | 4.929 | 5.42 | 0.00 | 1.200 | 1.564 | 2.00 | 9.612 | 11.53 | 62.5 | 213.5 | 731.9 |
| 51.00 | Top - Section 2 | 1.00 | 0.82 | 4.957 | 5.45 | 0.00 | 1.200 | 1.567 | 1.00 | 4.777 | 5.73 | 31.3 | 106.5 | 364.0 |
| 52.00 | | 1.00 | 0.82 | 4.984 | 5.48 | 0.00 | 1.200 | 1.570 | 1.00 | 4.757 | 5.71 | 31.3 | 106.2 | 362.6 |
| 54.00 | | 1.00 | 0.83 | 5.039 | 5.54 | 0.00 | 1.200 | 1.576 | 2.00 | 9.456 | 11.35 | 62.9 | 211.5 | 720.8 |
| 56.00 | | 1.00 | 0.84 | 5.091 | 5.60 | 0.00 | 1.200 | 1.581 | 2.00 | 9.379 | 11.25 | 63.0 | 210.4 | 715.1 |
| 58.00 | | 1.00 | 0.85 | 5.142 | 5.66 | 0.00 | 1.200 | 1.587 | 2.00 | 9.301 | 11.16 | 63.1 | 209.3 | 709.5 |
| 60.00 | | 1.00 | 0.85 | 5.193 | 5.71 | 0.00 | 1.200 | 1.592 | 2.00 | 9.223 | 11.07 | 63.2 | 208.2 | 703.8 |
| 62.00 | | 1.00 | 0.86 | 5.241 | 5.77 | 0.00 | 1.200 | 1.598 | 2.00 | 9.145 | 10.97 | 63.3 | 207.0 | 698.0 |
| 64.00 | | 1.00 | 0.87 | 5.289 | 5.82 | 0.00 | 1.200 | 1.603 | 2.00 | 9.067 | 10.88 | 63.3 | 205.8 | 692.3 |
| 66.00 | | 1.00 | 0.88 | 5.336 | 5.87 | 0.00 | 1.200 | 1.608 | 2.00 | 8.989 | 10.79 | 63.3 | 204.6 | 686.5 |
| 66.17 | RB1 | 1.00 | 0.88 | 5.340 | 5.87 | 0.00 | 1.200 | 1.608 | 0.17 | 0.760 | 0.91 | 5.4 | 17.4 | 58.1 |
| 68.00 | | 1.00 | 0.89 | 5.382 | 5.92 | 0.00 | 1.200 | 1.612 | 1.83 | 8.150 | 9.78 | 57.9 | 186.1 | 622.6 |
| 70.00 | | 1.00 | 0.89 | 5.426 | 5.97 | 0.00 | 1.200 | 1.617 | 2.00 | 8.833 | 10.60 | 63.3 | 202.1 | 674.8 |
| 71.00 | Top - Section 3 | 1.00 | 0.90 | 5.448 | 5.99 | 0.00 | 1.200 | 1.619 | 1.00 | 4.387 | 5.26 | 31.5 | 100.7 | 335.3 |
| 72.00 | | 1.00 | 0.90 | 5.470 | 6.02 | 0.00 | 1.200 | 1.622 | 1.00 | 4.367 | 5.24 | 31.5 | 100.4 | 333.9 |
| 74.00 | | 1.00 | 0.91 | 5.513 | 6.06 | 0.00 | 1.200 | 1.626 | 2.00 | 8.676 | 10.41 | 63.1 | 199.4 | 663.0 |
| 76.00 | | 1.00 | 0.91 | 5.555 | 6.11 | 0.00 | 1.200 | 1.631 | 2.00 | 8.598 | 10.32 | 63.0 | 198.1 | 657.0 |
| 78.00 | | 1.00 | 0.92 | 5.597 | 6.16 | 0.00 | 1.200 | 1.635 | 2.00 | 8.520 | 10.22 | 62.9 | 196.7 | 651.1 |
| 80.00 | | 1.00 | 0.93 | 5.637 | 6.20 | 0.00 | 1.200 | 1.639 | 2.00 | 8.442 | 10.13 | 62.8 | 195.3 | 645.1 |
| 81.00 | Top - Section 4 | 1.00 | 0.93 | 5.657 | 6.22 | 0.00 | 1.200 | 1.641 | 1.00 | 4.191 | 5.03 | 31.3 | 97.3 | 320.5 |
| 82.00 | | 1.00 | 0.93 | 5.677 | 6.24 | 0.00 | 1.200 | 1.643 | 1.00 | 4.172 | 5.01 | 31.3 | 96.9 | 282.2 |

Wind Loading - Shaft

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 48

| | | | | | | | | | | | | | |
|------------------------|------|------|-------|------|------|-------|-------|------|-------|------|------|-------|-------|
| 84.00 | 1.00 | 0.94 | 5.716 | 6.29 | 0.00 | 1.200 | 1.647 | 2.00 | 8.285 | 9.94 | 62.5 | 192.4 | 560.2 |
| 85.00 Bot - Section 6 | 1.00 | 0.94 | 5.736 | 6.31 | 0.00 | 1.200 | 1.649 | 1.00 | 4.113 | 4.94 | 31.1 | 95.9 | 278.3 |
| 86.00 | 1.00 | 0.95 | 5.755 | 6.33 | 0.00 | 1.200 | 1.651 | 1.00 | 4.146 | 4.98 | 31.5 | 96.8 | 462.3 |
| 88.00 | 1.00 | 0.95 | 5.793 | 6.37 | 0.00 | 1.200 | 1.655 | 2.00 | 8.234 | 9.88 | 63.0 | 192.1 | 917.3 |
| 90.00 | 1.00 | 0.96 | 5.830 | 6.41 | 0.00 | 1.200 | 1.658 | 2.00 | 8.155 | 9.79 | 62.8 | 190.6 | 908.2 |
| 91.00 Top - Section 5 | 1.00 | 0.96 | 5.849 | 6.43 | 0.00 | 1.200 | 1.660 | 1.00 | 4.048 | 4.86 | 31.3 | 94.9 | 450.9 |
| 92.00 | 1.00 | 0.96 | 5.867 | 6.45 | 0.00 | 1.200 | 1.662 | 1.00 | 4.029 | 4.83 | 31.2 | 94.5 | 272.8 |
| 93.83 RT1 | 1.00 | 0.97 | 5.900 | 6.49 | 0.00 | 1.200 | 1.665 | 1.83 | 7.322 | 8.79 | 57.0 | 171.7 | 495.5 |
| 94.00 | 1.00 | 0.97 | 5.903 | 6.49 | 0.00 | 1.200 | 1.666 | 0.17 | 0.677 | 0.81 | 5.3 | 15.9 | 45.9 |
| 96.00 | 1.00 | 0.98 | 5.939 | 6.53 | 0.00 | 1.200 | 1.669 | 2.00 | 7.920 | 9.50 | 62.1 | 186.0 | 535.9 |
| 98.00 | 1.00 | 0.98 | 5.974 | 6.57 | 0.00 | 1.200 | 1.672 | 2.00 | 7.841 | 9.41 | 61.8 | 184.5 | 530.6 |
| 100.00 | 1.00 | 0.99 | 6.008 | 6.61 | 0.00 | 1.200 | 1.676 | 2.00 | 7.763 | 9.32 | 61.6 | 182.9 | 525.2 |
| 102.00 | 1.00 | 0.99 | 6.043 | 6.65 | 0.00 | 1.200 | 1.679 | 2.00 | 7.684 | 9.22 | 61.3 | 181.3 | 519.8 |
| 104.00 | 1.00 | 1.00 | 6.076 | 6.68 | 0.00 | 1.200 | 1.682 | 2.00 | 7.606 | 9.13 | 61.0 | 179.7 | 514.4 |
| 106.00 | 1.00 | 1.00 | 6.109 | 6.72 | 0.00 | 1.200 | 1.686 | 2.00 | 7.129 | 8.55 | 57.5 | 168.2 | 499.1 |
| 108.00 | 1.00 | 1.01 | 6.142 | 6.76 | 0.00 | 1.200 | 1.689 | 2.00 | 7.050 | 8.46 | 57.2 | 166.6 | 493.6 |
| 110.00 | 1.00 | 1.02 | 6.174 | 6.79 | 0.00 | 1.200 | 1.692 | 2.00 | 6.971 | 8.37 | 56.8 | 164.9 | 488.2 |
| 111.17 RB2 | 1.00 | 1.02 | 6.193 | 6.81 | 0.00 | 1.200 | 1.694 | 1.17 | 4.042 | 4.85 | 33.0 | 95.9 | 283.2 |
| 112.00 | 1.00 | 1.02 | 6.206 | 6.83 | 0.00 | 1.200 | 1.695 | 0.83 | 2.851 | 3.42 | 23.4 | 67.8 | 199.8 |
| 114.00 | 1.00 | 1.03 | 6.238 | 6.86 | 0.00 | 1.200 | 1.698 | 2.00 | 6.814 | 8.18 | 56.1 | 161.6 | 477.2 |
| 115.00 Top - Section 6 | 1.00 | 1.03 | 6.253 | 6.88 | 0.00 | 1.200 | 1.699 | 1.00 | 3.577 | 4.29 | 29.5 | 85.3 | 241.7 |
| 116.00 | 1.00 | 1.03 | 6.269 | 6.90 | 0.00 | 1.200 | 1.701 | 1.00 | 3.557 | 4.27 | 29.4 | 84.9 | 209.4 |
| 118.00 | 1.00 | 1.04 | 6.299 | 6.93 | 0.00 | 1.200 | 1.704 | 2.00 | 7.055 | 8.47 | 58.7 | 168.1 | 414.9 |
| 120.00 | 1.00 | 1.04 | 6.330 | 6.96 | 0.00 | 1.200 | 1.707 | 2.00 | 6.976 | 8.37 | 58.3 | 166.4 | 410.2 |
| 122.00 | 1.00 | 1.05 | 6.360 | 7.00 | 0.00 | 1.200 | 1.710 | 2.00 | 6.898 | 8.28 | 57.9 | 164.7 | 405.4 |
| 123.83 RT2 | 1.00 | 1.05 | 6.387 | 7.03 | 0.00 | 1.200 | 1.712 | 1.83 | 6.242 | 7.49 | 52.6 | 149.3 | 366.8 |
| 124.00 | 1.00 | 1.05 | 6.389 | 7.03 | 0.00 | 1.200 | 1.712 | 0.17 | 0.576 | 0.69 | 4.9 | 13.9 | 33.9 |
| 126.00 | 1.00 | 1.06 | 6.419 | 7.06 | 0.00 | 1.200 | 1.715 | 2.00 | 6.740 | 8.09 | 57.1 | 161.3 | 395.8 |
| 128.00 | 1.00 | 1.06 | 6.448 | 7.09 | 0.00 | 1.200 | 1.718 | 2.00 | 6.661 | 7.99 | 56.7 | 159.5 | 391.1 |
| 130.00 Bot - Section 8 | 1.00 | 1.07 | 6.476 | 7.12 | 0.00 | 1.200 | 1.720 | 2.00 | 6.582 | 7.90 | 56.3 | 157.8 | 386.3 |
| 132.00 | 1.00 | 1.07 | 6.504 | 7.15 | 0.00 | 1.200 | 1.723 | 2.00 | 6.588 | 7.91 | 56.6 | 158.2 | 612.2 |
| 134.00 | 1.00 | 1.07 | 6.532 | 7.19 | 0.00 | 1.200 | 1.726 | 2.00 | 6.509 | 7.81 | 56.1 | 156.4 | 604.4 |
| 135.00 Top - Section 7 | 1.00 | 1.08 | 6.546 | 7.20 | 0.00 | 1.200 | 1.727 | 1.00 | 3.225 | 3.87 | 27.9 | 77.8 | 299.4 |
| 136.00 | 1.00 | 1.08 | 6.560 | 7.22 | 0.00 | 1.200 | 1.728 | 1.00 | 3.205 | 3.85 | 27.8 | 77.3 | 188.2 |
| 138.00 | 1.00 | 1.08 | 6.588 | 7.25 | 0.00 | 1.200 | 1.731 | 2.00 | 6.352 | 7.62 | 55.2 | 152.8 | 372.3 |
| 140.00 | 1.00 | 1.09 | 6.615 | 7.28 | 0.00 | 1.200 | 1.733 | 2.00 | 6.273 | 7.53 | 54.8 | 151.0 | 367.5 |
| 142.00 | 1.00 | 1.09 | 6.642 | 7.31 | 0.00 | 1.200 | 1.736 | 2.00 | 6.194 | 7.43 | 54.3 | 149.2 | 362.6 |
| 143.00 Appurtenance(s) | 1.00 | 1.09 | 6.655 | 7.32 | 0.00 | 1.200 | 1.737 | 1.00 | 3.067 | 3.68 | 26.9 | 74.2 | 179.7 |
| 144.00 | 1.00 | 1.10 | 6.668 | 7.34 | 0.00 | 1.200 | 1.738 | 1.00 | 3.048 | 3.66 | 26.8 | 73.7 | 178.5 |
| 146.00 | 1.00 | 1.10 | 6.695 | 7.36 | 0.00 | 1.200 | 1.741 | 2.00 | 6.036 | 7.24 | 53.3 | 145.6 | 352.9 |
| 148.00 | 1.00 | 1.11 | 6.721 | 7.39 | 0.00 | 1.200 | 1.743 | 2.00 | 5.957 | 7.15 | 52.8 | 143.8 | 348.0 |
| 150.00 | 1.00 | 1.11 | 6.746 | 7.42 | 0.00 | 1.200 | 1.745 | 2.00 | 5.879 | 7.05 | 52.4 | 141.9 | 343.1 |
| 152.00 | 1.00 | 1.11 | 6.772 | 7.45 | 0.00 | 1.200 | 1.748 | 2.00 | 5.800 | 6.96 | 51.8 | 140.1 | 338.2 |
| 153.00 Appurtenance(s) | 1.00 | 1.12 | 6.785 | 7.46 | 0.00 | 1.200 | 1.749 | 1.00 | 2.870 | 3.44 | 25.7 | 69.6 | 167.5 |
| 154.00 | 1.00 | 1.12 | 6.797 | 7.48 | 0.00 | 1.200 | 1.750 | 1.00 | 2.850 | 3.42 | 25.6 | 69.1 | 166.3 |
| 156.00 | 1.00 | 1.12 | 6.822 | 7.50 | 0.00 | 1.200 | 1.752 | 2.00 | 5.642 | 6.77 | 50.8 | 136.4 | 328.4 |
| 158.00 Appurtenance(s) | 1.00 | 1.13 | 6.847 | 7.53 | 0.00 | 1.200 | 1.754 | 2.00 | 5.563 | 6.68 | 50.3 | 134.5 | 323.5 |
| 160.00 | 1.00 | 1.13 | 6.872 | 7.56 | 0.00 | 1.200 | 1.757 | 2.00 | 5.484 | 6.58 | 49.7 | 132.7 | 318.6 |
| 162.00 | 1.00 | 1.13 | 6.896 | 7.59 | 0.00 | 1.200 | 1.759 | 2.00 | 5.405 | 6.49 | 49.2 | 130.8 | 313.7 |
| 163.00 Appurtenance(s) | 1.00 | 1.14 | 6.909 | 7.60 | 0.00 | 1.200 | 1.760 | 1.00 | 2.673 | 3.21 | 24.4 | 64.9 | 155.2 |
| 164.00 | 1.00 | 1.14 | 6.921 | 7.61 | 0.00 | 1.200 | 1.761 | 1.00 | 2.653 | 3.18 | 24.2 | 64.4 | 154.0 |
| 166.00 | 1.00 | 1.14 | 6.945 | 7.64 | 0.00 | 1.200 | 1.763 | 2.00 | 5.247 | 6.30 | 48.1 | 127.0 | 303.8 |
| 168.00 | 1.00 | 1.15 | 6.968 | 7.67 | 0.00 | 1.200 | 1.765 | 2.00 | 5.168 | 6.20 | 47.5 | 125.1 | 298.8 |
| 170.00 | 1.00 | 1.15 | 6.992 | 7.69 | 0.00 | 1.200 | 1.767 | 2.00 | 5.089 | 6.11 | 47.0 | 123.2 | 293.9 |
| 172.00 | 1.00 | 1.15 | 7.015 | 7.72 | 0.00 | 1.200 | 1.769 | 2.00 | 5.010 | 6.01 | 46.4 | 121.3 | 288.9 |
| 173.00 Appurtenance(s) | 1.00 | 1.16 | 7.027 | 7.73 | 0.00 | 1.200 | 1.770 | 1.00 | 2.475 | 2.97 | 23.0 | 60.2 | 142.8 |
| 174.00 | 1.00 | 1.16 | 7.039 | 7.74 | 0.00 | 1.200 | 1.771 | 1.00 | 2.456 | 2.95 | 22.8 | 59.7 | 141.6 |

Wind Loading - Shaft

| | | |
|---------------------------------|-----------------------------------|-----------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Page: 49 |
| | Struct Class: II | |



| | | | | | | | | | | | | | |
|------------------------|------|------|-------|------|------|-------|-------|---------------|-------|------|----------------|-------|-----------------|
| 176.00 | 1.00 | 1.16 | 7.062 | 7.77 | 0.00 | 1.200 | 1.773 | 2.00 | 4.852 | 5.82 | 45.2 | 117.4 | 279.0 |
| 178.00 | 1.00 | 1.17 | 7.085 | 7.79 | 0.00 | 1.200 | 1.775 | 2.00 | 4.773 | 5.73 | 44.6 | 115.5 | 274.0 |
| 180.00 Top - Section 8 | 1.00 | 1.17 | 7.107 | 7.82 | 0.00 | 1.200 | 1.777 | 2.00 | 4.694 | 5.63 | 44.0 | 113.6 | 269.0 |
| 181.00 Appurtenance(s) | 1.00 | 1.17 | 7.118 | 7.83 | 0.00 | 1.200 | 1.778 | 1.00 | 2.296 | 2.76 | 21.6 | 56.0 | 141.5 |
| 182.00 | 1.00 | 1.17 | 7.130 | 7.84 | 0.00 | 1.200 | 1.779 | 1.00 | 2.297 | 2.76 | 21.6 | 56.0 | 141.5 |
| 183.00 | 1.00 | 1.17 | 7.141 | 7.85 | 0.00 | 1.200 | 1.780 | 1.00 | 2.297 | 2.76 | 21.6 | 56.1 | 141.6 |
| Totals: | | | | | | | | 183.00 | | | 5,281.9 | | 54,120.7 |

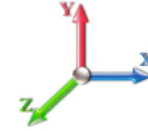
Discrete Appurtenance Forces

| | | | |
|---------------------------------|-----------------------------------|-------------------------|----------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 | |
| Site Name: Waterford | Exposure: B | | |
| Height: 183.00 (ft) | Crest Height: 0.00 | | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | | |
| Gh: 1.1 | Topography: 1 | Struct Class: II | Page: 50 |



Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 29

| No. | Elev (ft) | Description | Qty | qz (psf) | qzGh (psf) | Orient Factor x Ka | Ka | Total CaAa (sf) | Dead Load (lb) | Horiz Ecc (ft) | Vert Ecc (ft) | Wind FX (lb) | Mom Y (lb-ft) | Mom Z (lb-ft) |
|----------------|-----------|-------------------------|-----|----------|------------|--------------------|------|-----------------|------------------|----------------|---------------|-----------------|---------------|---------------|
| 1 | 181.00 | Low Profile | 1 | 7.118 | 7.830 | 1.00 | 1.00 | 40.00 | 2833.73 | 0.000 | 0.000 | 313.18 | 0.00 | 0.00 |
| 2 | 173.00 | Samsung B2/B66 RRH | 3 | 7.027 | 7.730 | 0.54 | 0.80 | 3.94 | 537.62 | 0.000 | 0.000 | 30.48 | 0.00 | 0.00 |
| 3 | 173.00 | Andrew JAHH-65B-R3B | 6 | 7.027 | 7.730 | 0.66 | 0.80 | 41.74 | 1861.92 | 0.000 | 0.000 | 322.66 | 0.00 | 0.00 |
| 4 | 173.00 | BSAMNT-SBS-1-2 | 3 | 7.027 | 7.730 | 0.75 | 0.75 | 0.00 | 141.66 | 0.000 | 0.000 | 0.00 | 0.00 | 0.00 |
| 5 | 173.00 | CBC78T-DS-43/E14F05P | 3 | 7.027 | 7.730 | 0.54 | 0.80 | 1.06 | 100.99 | 0.000 | 0.000 | 8.18 | 0.00 | 0.00 |
| 6 | 173.00 | Samsung MT6407-77A | 3 | 7.027 | 7.730 | 0.56 | 0.80 | 9.49 | 650.72 | 0.000 | 0.000 | 73.39 | 0.00 | 0.00 |
| 7 | 173.00 | Samsung B5/B13 RRH | 3 | 7.027 | 7.730 | 0.54 | 0.80 | 3.94 | 464.93 | 0.000 | 0.000 | 30.48 | 0.00 | 0.00 |
| 8 | 173.00 | (3) T-Arms | 1 | 7.027 | 7.730 | 0.75 | 0.75 | 40.82 | 2827.72 | 0.000 | 0.000 | 315.55 | 0.00 | 0.00 |
| 9 | 173.00 | LPA-80080-4CF-EDIN-0 | 4 | 7.027 | 7.730 | 1.36 | 0.80 | 19.16 | 394.32 | 0.000 | 0.000 | 148.06 | 0.00 | 0.00 |
| 10 | 173.00 | APL866513-42T0 | 2 | 7.027 | 7.730 | 0.74 | 0.80 | 8.84 | 196.63 | 0.000 | 0.000 | 68.32 | 0.00 | 0.00 |
| 11 | 173.00 | DB-T1-6Z-8AB-OZ | 2 | 7.027 | 7.730 | 0.60 | 0.80 | 6.82 | 397.93 | 0.000 | 0.000 | 52.75 | 0.00 | 0.00 |
| 12 | 163.00 | LLPX310R | 3 | 6.909 | 7.599 | 0.55 | 0.80 | 9.89 | 298.43 | 0.000 | 0.000 | 75.18 | 0.00 | 0.00 |
| 13 | 163.00 | Low Profile | 1 | 6.909 | 7.599 | 1.00 | 1.00 | 39.81 | 2819.84 | 0.000 | 0.000 | 302.52 | 0.00 | 0.00 |
| 14 | 163.00 | DAP Head | 3 | 6.909 | 7.599 | 0.54 | 0.80 | 4.88 | 252.82 | 0.000 | 0.000 | 37.11 | 0.00 | 0.00 |
| 15 | 158.00 | Low Profile | 1 | 6.847 | 7.532 | 1.00 | 1.00 | 39.75 | 2815.73 | 0.000 | 0.000 | 299.43 | 0.00 | 0.00 |
| 16 | 153.00 | V-brace kit | 1 | 6.785 | 7.463 | 1.00 | 1.00 | 5.53 | 496.76 | 0.000 | 0.000 | 41.29 | 0.00 | 0.00 |
| 17 | 153.00 | SPTB(Tie back Kit) | 1 | 6.785 | 7.463 | 1.00 | 1.00 | 7.58 | 284.27 | 0.000 | 0.000 | 56.59 | 0.00 | 0.00 |
| 18 | 153.00 | PRK-1245 (kicker kit) | 1 | 6.785 | 7.463 | 1.00 | 1.00 | 19.47 | 787.99 | 0.000 | 0.000 | 145.29 | 0.00 | 0.00 |
| 19 | 153.00 | RFS | 3 | 6.785 | 7.463 | 0.56 | 0.80 | 37.20 | 1698.68 | 0.000 | 0.000 | 277.65 | 0.00 | 0.00 |
| 20 | 153.00 | KRY 112 144/1 | 3 | 6.785 | 7.463 | 0.56 | 0.80 | 1.49 | 62.71 | 0.000 | 0.000 | 11.11 | 0.00 | 0.00 |
| 21 | 153.00 | Ericsson Air 21 B2A/B4P | 3 | 6.785 | 7.463 | 0.69 | 0.80 | 14.84 | 837.26 | 0.000 | 0.000 | 110.75 | 0.00 | 0.00 |
| 22 | 153.00 | Low Profile Platform | 1 | 6.785 | 7.463 | 1.00 | 1.00 | 45.98 | 2189.20 | 0.000 | 0.000 | 343.19 | 0.00 | 0.00 |
| 23 | 153.00 | Ericsson 4449 B71 + B85 | 3 | 6.785 | 7.463 | 0.54 | 0.80 | 4.09 | 261.89 | 0.000 | 0.000 | 30.49 | 0.00 | 0.00 |
| 24 | 153.00 | Ericsson Air 21 B4A/B2P | 3 | 6.785 | 7.463 | 0.69 | 0.80 | 14.84 | 833.30 | 0.000 | 0.000 | 110.75 | 0.00 | 0.00 |
| 25 | 143.00 | Powerwave 7770.00 | 3 | 6.655 | 7.320 | 0.55 | 0.75 | 10.77 | 529.15 | 0.000 | 0.000 | 78.87 | 0.00 | 0.00 |
| 26 | 143.00 | 850-1900 Dual Band | 3 | 6.655 | 7.320 | 0.49 | 0.75 | 1.56 | 44.66 | 0.000 | 0.000 | 11.39 | 0.00 | 0.00 |
| 27 | 143.00 | Low Profile | 1 | 6.655 | 7.320 | 1.00 | 1.00 | 39.58 | 2802.67 | 0.000 | 0.000 | 289.72 | 0.00 | 0.00 |
| 28 | 143.00 | RRUS 11 | 3 | 6.655 | 7.320 | 0.50 | 0.75 | 4.78 | 448.54 | 0.000 | 0.000 | 34.96 | 0.00 | 0.00 |
| 29 | 143.00 | DC6-48-60-18-8F | 1 | 6.655 | 7.320 | 0.75 | 0.75 | 1.62 | 81.99 | 0.000 | 0.000 | 11.89 | 0.00 | 0.00 |
| 30 | 143.00 | DBC-750 | 3 | 6.655 | 7.320 | 0.38 | 0.75 | 1.17 | 37.44 | 0.000 | 0.000 | 8.54 | 0.00 | 0.00 |
| 31 | 143.00 | HRK14 | 1 | 6.655 | 7.320 | 1.00 | 1.00 | 19.98 | 1191.36 | 0.000 | 0.000 | 146.28 | 0.00 | 0.00 |
| 32 | 143.00 | TPA-65R-LCUUUU-H8 | 2 | 6.655 | 7.320 | 0.62 | 0.75 | 18.60 | 800.81 | 0.000 | 0.000 | 136.14 | 0.00 | 0.00 |
| 33 | 143.00 | QS46512-2 | 1 | 6.655 | 7.320 | 0.75 | 0.75 | 10.75 | 152.60 | 0.000 | 0.000 | 78.72 | 0.00 | 0.00 |
| 34 | 143.00 | OPA-65R-LCUU-H4 | 1 | 6.655 | 7.320 | 0.75 | 0.75 | 5.23 | 226.11 | 0.000 | 0.000 | 38.25 | 0.00 | 0.00 |
| 35 | 143.00 | OPA-65R-LCUU-H8 | 2 | 6.655 | 7.320 | 0.59 | 0.75 | 17.00 | 789.31 | 0.000 | 0.000 | 124.47 | 0.00 | 0.00 |
| 36 | 143.00 | DTMABP7819VG12A | 3 | 6.655 | 7.320 | 0.50 | 0.75 | 2.87 | 123.41 | 0.000 | 0.000 | 21.03 | 0.00 | 0.00 |
| 37 | 143.00 | DBC0061F1V51-2 | 3 | 6.655 | 7.320 | 0.50 | 0.75 | 1.08 | 124.35 | 0.000 | 0.000 | 7.88 | 0.00 | 0.00 |
| 38 | 143.00 | RRUS 32 B2 | 3 | 6.655 | 7.320 | 0.50 | 0.75 | 5.22 | 453.26 | 0.000 | 0.000 | 38.24 | 0.00 | 0.00 |
| Totals: | | | | | | | | | 31,852.71 | | | 4,230.78 | | |

Total Applied Force Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |

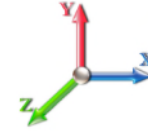


Page: 51

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 29

| Elev (ft) | Description | Lateral FX (-) (lb) | Axial FY (-) (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) |
|--------------|-------------|---------------------------|-------------------------|--------------------------|-------------------------|
| 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 |
| 2.00 | | 63.22 | 935.32 | 0.00 | 0.00 |
| 4.00 | | 62.93 | 944.99 | 0.00 | 0.00 |
| 6.00 | | 62.57 | 948.63 | 0.00 | 0.00 |
| 8.00 | | 62.20 | 949.63 | 0.00 | 0.00 |
| 10.00 | | 61.80 | 949.14 | 0.00 | 0.00 |
| 12.00 | | 61.40 | 947.66 | 0.00 | 0.00 |
| 14.00 | | 60.99 | 945.49 | 0.00 | 0.00 |
| 16.00 | | 60.58 | 942.79 | 0.00 | 0.00 |
| 18.00 | | 60.16 | 939.69 | 0.00 | 0.00 |
| 20.00 | | 59.74 | 936.26 | 0.00 | 0.00 |
| 22.00 | | 59.32 | 932.56 | 0.00 | 0.00 |
| 24.00 | | 58.90 | 928.63 | 0.00 | 0.00 |
| 26.00 | | 58.47 | 924.50 | 0.00 | 0.00 |
| 28.00 | | 58.04 | 920.21 | 0.00 | 0.00 |
| 30.00 | | 57.66 | 915.77 | 0.00 | 0.00 |
| 32.00 | | 58.30 | 911.21 | 0.00 | 0.00 |
| 34.00 | | 58.87 | 906.52 | 0.00 | 0.00 |
| 36.00 | | 59.39 | 901.73 | 0.00 | 0.00 |
| 38.00 | | 59.85 | 896.85 | 0.00 | 0.00 |
| 40.00 | | 60.26 | 891.89 | 0.00 | 0.00 |
| 41.00 | | 30.16 | 444.11 | 0.00 | 0.00 |
| 42.00 | | 30.65 | 712.09 | 0.00 | 0.00 |
| 44.00 | | 61.75 | 1416.79 | 0.00 | 0.00 |
| 46.00 | | 62.05 | 1407.05 | 0.00 | 0.00 |
| 48.00 | | 62.31 | 1397.24 | 0.00 | 0.00 |
| 50.00 | | 62.54 | 876.20 | 0.00 | 0.00 |
| 51.00 | | 31.25 | 436.20 | 0.00 | 0.00 |
| 52.00 | | 31.30 | 434.86 | 0.00 | 0.00 |
| 54.00 | | 62.89 | 865.47 | 0.00 | 0.00 |
| 56.00 | | 63.03 | 860.04 | 0.00 | 0.00 |
| 58.00 | | 63.13 | 854.56 | 0.00 | 0.00 |
| 60.00 | | 63.22 | 849.04 | 0.00 | 0.00 |
| 62.00 | | 63.27 | 843.48 | 0.00 | 0.00 |
| 64.00 | | 63.30 | 837.88 | 0.00 | 0.00 |
| 66.00 | | 63.31 | 845.57 | 0.00 | 0.00 |
| 66.17 | | 5.36 | 72.79 | 0.00 | 0.00 |
| 68.00 | | 57.90 | 780.61 | 0.00 | 0.00 |
| 70.00 | | 63.27 | 847.71 | 0.00 | 0.00 |
| 71.00 | | 31.55 | 421.88 | 0.00 | 0.00 |
| 72.00 | | 31.53 | 420.46 | 0.00 | 0.00 |
| 74.00 | | 63.14 | 836.40 | 0.00 | 0.00 |
| 76.00 | | 63.05 | 830.70 | 0.00 | 0.00 |
| 78.00 | | 62.94 | 824.98 | 0.00 | 0.00 |
| 80.00 | | 62.82 | 819.23 | 0.00 | 0.00 |
| 81.00 | | 31.30 | 407.60 | 0.00 | 0.00 |
| 82.00 | | 31.26 | 369.40 | 0.00 | 0.00 |

Total Applied Force Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 52

| | | | | | |
|--------|------------------|---------|---------|------|------|
| 84.00 | | 62.52 | 734.72 | 0.00 | 0.00 |
| 85.00 | | 31.14 | 365.62 | 0.00 | 0.00 |
| 86.00 | | 31.50 | 549.65 | 0.00 | 0.00 |
| 88.00 | | 62.96 | 1092.31 | 0.00 | 0.00 |
| 90.00 | | 62.76 | 1083.39 | 0.00 | 0.00 |
| 91.00 | | 31.25 | 538.51 | 0.00 | 0.00 |
| 92.00 | | 31.20 | 360.52 | 0.00 | 0.00 |
| 93.83 | | 57.02 | 656.17 | 0.00 | 0.00 |
| 94.00 | | 5.27 | 60.78 | 0.00 | 0.00 |
| 96.00 | | 62.09 | 697.77 | 0.00 | 0.00 |
| 98.00 | | 61.83 | 678.60 | 0.00 | 0.00 |
| 100.00 | | 61.57 | 673.33 | 0.00 | 0.00 |
| 102.00 | | 61.29 | 668.05 | 0.00 | 0.00 |
| 104.00 | | 61.00 | 662.75 | 0.00 | 0.00 |
| 106.00 | | 57.49 | 647.59 | 0.00 | 0.00 |
| 108.00 | | 57.16 | 642.24 | 0.00 | 0.00 |
| 110.00 | | 56.82 | 636.88 | 0.00 | 0.00 |
| 111.17 | | 33.04 | 380.61 | 0.00 | 0.00 |
| 112.00 | | 23.35 | 268.95 | 0.00 | 0.00 |
| 114.00 | | 56.10 | 643.85 | 0.00 | 0.00 |
| 115.00 | | 29.52 | 325.07 | 0.00 | 0.00 |
| 116.00 | | 29.43 | 292.86 | 0.00 | 0.00 |
| 118.00 | | 58.66 | 581.88 | 0.00 | 0.00 |
| 120.00 | | 58.29 | 577.27 | 0.00 | 0.00 |
| 122.00 | | 57.90 | 572.66 | 0.00 | 0.00 |
| 123.83 | | 52.63 | 519.98 | 0.00 | 0.00 |
| 124.00 | | 4.86 | 48.16 | 0.00 | 0.00 |
| 126.00 | | 57.11 | 554.39 | 0.00 | 0.00 |
| 128.00 | | 56.69 | 540.71 | 0.00 | 0.00 |
| 130.00 | | 56.27 | 536.00 | 0.00 | 0.00 |
| 132.00 | | 56.57 | 762.08 | 0.00 | 0.00 |
| 134.00 | | 56.13 | 754.30 | 0.00 | 0.00 |
| 135.00 | | 27.87 | 374.44 | 0.00 | 0.00 |
| 136.00 | | 27.76 | 263.22 | 0.00 | 0.00 |
| 138.00 | | 55.23 | 522.46 | 0.00 | 0.00 |
| 140.00 | | 54.77 | 517.71 | 0.00 | 0.00 |
| 142.00 | | 54.30 | 512.94 | 0.00 | 0.00 |
| 143.00 | (30) attachments | 1053.34 | 8060.56 | 0.00 | 0.00 |
| 144.00 | | 26.83 | 237.67 | 0.00 | 0.00 |
| 146.00 | | 53.34 | 471.32 | 0.00 | 0.00 |
| 148.00 | | 52.85 | 466.53 | 0.00 | 0.00 |
| 150.00 | | 52.35 | 461.73 | 0.00 | 0.00 |
| 152.00 | | 51.84 | 456.92 | 0.00 | 0.00 |
| 153.00 | (19) attachments | 1152.80 | 7678.93 | 0.00 | 0.00 |
| 154.00 | | 25.58 | 210.84 | 0.00 | 0.00 |
| 156.00 | | 50.81 | 417.61 | 0.00 | 0.00 |
| 158.00 | (1) attachments | 349.71 | 3228.50 | 0.00 | 0.00 |
| 160.00 | | 49.74 | 407.93 | 0.00 | 0.00 |
| 162.00 | | 49.20 | 403.08 | 0.00 | 0.00 |
| 163.00 | (7) attachments | 439.18 | 3571.03 | 0.00 | 0.00 |
| 164.00 | | 24.24 | 195.07 | 0.00 | 0.00 |
| 166.00 | | 48.10 | 386.03 | 0.00 | 0.00 |
| 168.00 | | 47.54 | 381.16 | 0.00 | 0.00 |
| 170.00 | | 46.97 | 376.27 | 0.00 | 0.00 |
| 172.00 | | 46.40 | 371.38 | 0.00 | 0.00 |
| 173.00 | (30) attachments | 1072.84 | 7758.53 | 0.00 | 0.00 |
| 174.00 | | 22.81 | 152.25 | 0.00 | 0.00 |

Total Applied Force Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |
| | | Page: 53 |



| | | | | |
|----------------|------------------------|------------------|-------------|-------------|
| 176.00 | 45.23 | 300.32 | 0.00 | 0.00 |
| 178.00 | 44.64 | 295.38 | 0.00 | 0.00 |
| 180.00 | 44.04 | 290.42 | 0.00 | 0.00 |
| 181.00 | (1) attachments 334.76 | 2985.97 | 0.00 | 0.00 |
| 182.00 | 21.61 | 152.28 | 0.00 | 0.00 |
| 183.00 | 21.65 | 152.32 | 0.00 | 0.00 |
| Totals: | 9,512.70 | 98,450.27 | 0.00 | 0.00 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 54

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 29

Dead Load Factor 1.20

Wind Load Factor 1.00



| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 2.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.030 | 0.000 | 4.256 | 0.00 | 4.48 |
| 2.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.030 | 0.000 | 4.256 | 0.00 | 6.80 |
| 2.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.71 | 0.00 | 0.030 | 0.000 | 4.256 | 0.00 | 23.06 |
| 4.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 4.99 |
| 4.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 7.35 |
| 4.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.73 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 24.28 |
| 6.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 5.33 |
| 6.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 7.70 |
| 6.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.75 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 25.05 |
| 8.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 5.58 |
| 8.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 7.97 |
| 8.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.76 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 25.62 |
| 10.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 5.79 |
| 10.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 8.19 |
| 10.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.77 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 26.08 |
| 12.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 5.96 |
| 12.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 8.37 |
| 12.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.78 | 0.00 | 0.031 | 0.000 | 4.256 | 0.00 | 26.47 |
| 14.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 4.256 | 0.00 | 6.11 |
| 14.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 4.256 | 0.00 | 8.53 |
| 14.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.79 | 0.00 | 0.032 | 0.000 | 4.256 | 0.00 | 26.80 |
| 16.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 4.256 | 0.00 | 6.25 |
| 16.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 4.256 | 0.00 | 8.67 |
| 16.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.80 | 0.00 | 0.032 | 0.000 | 4.256 | 0.00 | 27.10 |
| 18.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 4.256 | 0.00 | 6.37 |
| 18.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 4.256 | 0.00 | 8.80 |
| 18.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.80 | 0.00 | 0.032 | 0.000 | 4.256 | 0.00 | 27.37 |
| 20.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 4.256 | 0.00 | 6.48 |
| 20.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 4.256 | 0.00 | 8.92 |
| 20.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.81 | 0.00 | 0.032 | 0.000 | 4.256 | 0.00 | 27.61 |
| 22.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 4.256 | 0.00 | 6.59 |
| 22.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 4.256 | 0.00 | 9.03 |
| 22.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.81 | 0.00 | 0.033 | 0.000 | 4.256 | 0.00 | 27.83 |
| 24.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 4.256 | 0.00 | 6.68 |
| 24.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 4.256 | 0.00 | 9.13 |
| 24.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.81 | 0.00 | 0.033 | 0.000 | 4.256 | 0.00 | 28.04 |
| 26.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 4.256 | 0.00 | 6.77 |
| 26.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 4.256 | 0.00 | 9.23 |
| 26.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.82 | 0.00 | 0.033 | 0.000 | 4.256 | 0.00 | 28.23 |
| 28.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 4.256 | 0.00 | 6.86 |
| 28.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 4.256 | 0.00 | 9.32 |
| 28.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.82 | 0.00 | 0.034 | 0.000 | 4.256 | 0.00 | 28.41 |
| 30.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 4.260 | 0.00 | 6.94 |
| 30.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 4.260 | 0.00 | 9.40 |
| 30.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.83 | 0.00 | 0.034 | 0.000 | 4.260 | 0.00 | 28.57 |
| 32.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 4.339 | 0.00 | 7.02 |
| 32.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 4.339 | 0.00 | 9.48 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 55

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 29

Dead Load Factor 1.20

Wind Load Factor 1.00



| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 32.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.83 | 0.00 | 0.034 | 0.000 | 4.339 | 0.00 | 28.73 |
| 34.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 4.415 | 0.00 | 7.09 |
| 34.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 4.415 | 0.00 | 9.55 |
| 34.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.83 | 0.00 | 0.034 | 0.000 | 4.415 | 0.00 | 28.88 |
| 36.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 4.487 | 0.00 | 7.16 |
| 36.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 4.487 | 0.00 | 9.63 |
| 36.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.83 | 0.00 | 0.035 | 0.000 | 4.487 | 0.00 | 29.03 |
| 38.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 4.557 | 0.00 | 7.22 |
| 38.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 4.557 | 0.00 | 9.70 |
| 38.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.84 | 0.00 | 0.035 | 0.000 | 4.557 | 0.00 | 29.16 |
| 40.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 4.625 | 0.00 | 7.28 |
| 40.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 4.625 | 0.00 | 9.76 |
| 40.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.84 | 0.00 | 0.035 | 0.000 | 4.625 | 0.00 | 29.29 |
| 41.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 4.657 | 0.00 | 3.66 |
| 41.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 4.657 | 0.00 | 4.90 |
| 41.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.42 | 0.00 | 0.035 | 0.000 | 4.657 | 0.00 | 14.68 |
| 42.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 4.689 | 0.00 | 3.67 |
| 42.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 4.689 | 0.00 | 4.91 |
| 42.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.42 | 0.00 | 0.036 | 0.000 | 4.689 | 0.00 | 14.71 |
| 44.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 4.752 | 0.00 | 7.40 |
| 44.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 4.752 | 0.00 | 9.89 |
| 44.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.84 | 0.00 | 0.036 | 0.000 | 4.752 | 0.00 | 29.54 |
| 46.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 4.813 | 0.00 | 7.46 |
| 46.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 4.813 | 0.00 | 9.94 |
| 46.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.85 | 0.00 | 0.036 | 0.000 | 4.813 | 0.00 | 29.65 |
| 48.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 4.872 | 0.00 | 7.51 |
| 48.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 4.872 | 0.00 | 10.00 |
| 48.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.85 | 0.00 | 0.036 | 0.000 | 4.872 | 0.00 | 29.77 |
| 50.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 4.929 | 0.00 | 7.56 |
| 50.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 4.929 | 0.00 | 10.06 |
| 50.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.85 | 0.00 | 0.036 | 0.000 | 4.929 | 0.00 | 29.87 |
| 51.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 4.957 | 0.00 | 3.80 |
| 51.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 4.957 | 0.00 | 5.04 |
| 51.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.43 | 0.00 | 0.037 | 0.000 | 4.957 | 0.00 | 14.96 |
| 52.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 4.984 | 0.00 | 3.81 |
| 52.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 4.984 | 0.00 | 5.05 |
| 52.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.43 | 0.00 | 0.037 | 0.000 | 4.984 | 0.00 | 14.99 |
| 54.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 5.039 | 0.00 | 7.66 |
| 54.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 5.039 | 0.00 | 10.16 |
| 54.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.86 | 0.00 | 0.037 | 0.000 | 5.039 | 0.00 | 30.08 |
| 56.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 5.091 | 0.00 | 7.71 |
| 56.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 5.091 | 0.00 | 10.21 |
| 56.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.86 | 0.00 | 0.037 | 0.000 | 5.091 | 0.00 | 30.17 |
| 58.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 5.142 | 0.00 | 7.76 |
| 58.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 5.142 | 0.00 | 10.26 |
| 58.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.86 | 0.00 | 0.038 | 0.000 | 5.142 | 0.00 | 30.27 |
| 60.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 5.193 | 0.00 | 7.80 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 56

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 29

Dead Load Factor 1.20

Wind Load Factor 1.00



| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 60.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 5.193 | 0.00 | 10.31 |
| 60.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.86 | 0.00 | 0.038 | 0.000 | 5.193 | 0.00 | 30.36 |
| 62.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 5.241 | 0.00 | 7.85 |
| 62.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 5.241 | 0.00 | 10.35 |
| 62.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.86 | 0.00 | 0.038 | 0.000 | 5.241 | 0.00 | 30.45 |
| 64.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 5.289 | 0.00 | 7.89 |
| 64.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 5.289 | 0.00 | 10.40 |
| 64.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.86 | 0.00 | 0.039 | 0.000 | 5.289 | 0.00 | 30.54 |
| 66.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 5.336 | 0.00 | 7.93 |
| 66.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 5.336 | 0.00 | 10.44 |
| 66.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.87 | 0.00 | 0.039 | 0.000 | 5.336 | 0.00 | 30.62 |
| 66.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 5.336 | 0.00 | 13.32 |
| 66.17 | Safety Cable | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 5.340 | 0.00 | 0.67 |
| 66.17 | Step bolts (ladder) | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 5.340 | 0.00 | 0.89 |
| 66.17 | 1 5/8" Coax | Yes | 0.17 | 0.000 | 1.98 | 0.07 | 0.00 | 0.039 | 0.000 | 5.340 | 0.00 | 2.60 |
| 66.17 | C6X10.5 Reinforcing | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 5.340 | 0.00 | 2.26 |
| 68.00 | Safety Cable | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 5.382 | 0.00 | 7.29 |
| 68.00 | Step bolts (ladder) | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 5.382 | 0.00 | 9.59 |
| 68.00 | 1 5/8" Coax | Yes | 1.83 | 0.000 | 1.98 | 0.79 | 0.00 | 0.039 | 0.000 | 5.382 | 0.00 | 28.09 |
| 68.00 | C6X10.5 Reinforcing | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 5.382 | 0.00 | 24.46 |
| 70.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 5.426 | 0.00 | 8.01 |
| 70.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 5.426 | 0.00 | 10.52 |
| 70.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.87 | 0.00 | 0.040 | 0.000 | 5.426 | 0.00 | 30.78 |
| 70.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 5.426 | 0.00 | 26.82 |
| 71.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 5.448 | 0.00 | 4.02 |
| 71.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 5.448 | 0.00 | 5.27 |
| 71.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.43 | 0.00 | 0.040 | 0.000 | 5.448 | 0.00 | 15.41 |
| 71.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 5.448 | 0.00 | 13.43 |
| 72.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 5.470 | 0.00 | 4.03 |
| 72.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 5.470 | 0.00 | 5.28 |
| 72.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.44 | 0.00 | 0.040 | 0.000 | 5.470 | 0.00 | 15.43 |
| 72.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 5.470 | 0.00 | 13.46 |
| 74.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 5.513 | 0.00 | 8.09 |
| 74.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 5.513 | 0.00 | 10.60 |
| 74.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.87 | 0.00 | 0.041 | 0.000 | 5.513 | 0.00 | 30.94 |
| 74.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 5.513 | 0.00 | 27.00 |
| 76.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 5.555 | 0.00 | 8.13 |
| 76.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 5.555 | 0.00 | 10.64 |
| 76.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.87 | 0.00 | 0.041 | 0.000 | 5.555 | 0.00 | 31.01 |
| 76.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 5.555 | 0.00 | 27.08 |
| 78.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 5.597 | 0.00 | 8.16 |
| 78.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 5.597 | 0.00 | 10.68 |
| 78.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.87 | 0.00 | 0.041 | 0.000 | 5.597 | 0.00 | 31.09 |
| 78.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 5.597 | 0.00 | 27.17 |
| 80.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 5.637 | 0.00 | 8.20 |
| 80.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 5.637 | 0.00 | 10.72 |
| 80.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.88 | 0.00 | 0.042 | 0.000 | 5.637 | 0.00 | 31.16 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 57

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 29

Dead Load Factor 1.20

Wind Load Factor 1.00



| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 80.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 5.637 | 0.00 | 27.25 |
| 81.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 5.657 | 0.00 | 4.11 |
| 81.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 5.657 | 0.00 | 5.37 |
| 81.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.44 | 0.00 | 0.042 | 0.000 | 5.657 | 0.00 | 15.60 |
| 81.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 5.657 | 0.00 | 13.64 |
| 82.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 5.677 | 0.00 | 4.12 |
| 82.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 5.677 | 0.00 | 5.38 |
| 82.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.44 | 0.00 | 0.042 | 0.000 | 5.677 | 0.00 | 15.61 |
| 82.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 5.677 | 0.00 | 13.66 |
| 84.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 5.716 | 0.00 | 8.27 |
| 84.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 5.716 | 0.00 | 10.79 |
| 84.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.88 | 0.00 | 0.043 | 0.000 | 5.716 | 0.00 | 31.30 |
| 84.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 5.716 | 0.00 | 27.41 |
| 85.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 5.736 | 0.00 | 4.14 |
| 85.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 5.736 | 0.00 | 5.40 |
| 85.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.44 | 0.00 | 0.043 | 0.000 | 5.736 | 0.00 | 15.66 |
| 85.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 5.736 | 0.00 | 13.72 |
| 86.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 5.755 | 0.00 | 4.15 |
| 86.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 5.755 | 0.00 | 5.41 |
| 86.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.44 | 0.00 | 0.043 | 0.000 | 5.755 | 0.00 | 15.68 |
| 86.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 5.755 | 0.00 | 13.74 |
| 88.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.793 | 0.00 | 8.33 |
| 88.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.793 | 0.00 | 10.86 |
| 88.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.88 | 0.00 | 0.044 | 0.000 | 5.793 | 0.00 | 31.43 |
| 88.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.793 | 0.00 | 27.56 |
| 90.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.830 | 0.00 | 8.37 |
| 90.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.830 | 0.00 | 10.89 |
| 90.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.88 | 0.00 | 0.044 | 0.000 | 5.830 | 0.00 | 31.49 |
| 90.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.830 | 0.00 | 27.63 |
| 91.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.849 | 0.00 | 4.19 |
| 91.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.849 | 0.00 | 5.45 |
| 91.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.44 | 0.00 | 0.044 | 0.000 | 5.849 | 0.00 | 15.76 |
| 91.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.849 | 0.00 | 13.83 |
| 92.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.867 | 0.00 | 4.20 |
| 92.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.867 | 0.00 | 5.46 |
| 92.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.44 | 0.00 | 0.044 | 0.000 | 5.867 | 0.00 | 15.78 |
| 92.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.867 | 0.00 | 13.85 |
| 93.83 | Safety Cable | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.900 | 0.00 | 7.71 |
| 93.83 | Step bolts (ladder) | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.900 | 0.00 | 10.02 |
| 93.83 | 1 5/8" Coax | Yes | 1.83 | 0.000 | 1.98 | 0.81 | 0.00 | 0.044 | 0.000 | 5.900 | 0.00 | 28.93 |
| 93.83 | C6X10.5 Reinforcing | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 5.900 | 0.00 | 25.41 |
| 94.00 | Safety Cable | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 5.903 | 0.00 | 0.72 |
| 94.00 | Step bolts (ladder) | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 5.903 | 0.00 | 0.93 |
| 94.00 | 1 5/8" Coax | Yes | 0.17 | 0.000 | 1.98 | 0.08 | 0.00 | 0.045 | 0.000 | 5.903 | 0.00 | 2.69 |
| 94.00 | C6X10.5 Reinforcing | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 5.903 | 0.00 | 2.36 |
| 96.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 5.939 | 0.00 | 8.46 |
| 96.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 5.939 | 0.00 | 10.99 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 58

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 29

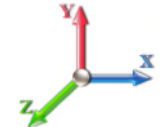
| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 96.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.89 | 0.00 | 0.045 | 0.000 | 5.939 | 0.00 | 31.68 |
| 96.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 5.939 | 0.00 | 13.92 |
| 98.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 5.974 | 0.00 | 8.49 |
| 98.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 5.974 | 0.00 | 11.02 |
| 98.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.89 | 0.00 | 0.045 | 0.000 | 5.974 | 0.00 | 31.74 |
| 100.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 6.008 | 0.00 | 8.52 |
| 100.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 6.008 | 0.00 | 11.05 |
| 100.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.89 | 0.00 | 0.046 | 0.000 | 6.008 | 0.00 | 31.80 |
| 102.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 6.043 | 0.00 | 8.55 |
| 102.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 6.043 | 0.00 | 11.08 |
| 102.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.89 | 0.00 | 0.046 | 0.000 | 6.043 | 0.00 | 31.86 |
| 104.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 6.076 | 0.00 | 8.58 |
| 104.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 6.076 | 0.00 | 11.11 |
| 104.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.89 | 0.00 | 0.047 | 0.000 | 6.076 | 0.00 | 31.91 |
| 106.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 6.109 | 0.00 | 8.60 |
| 106.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 6.109 | 0.00 | 11.14 |
| 106.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.89 | 0.00 | 0.047 | 0.000 | 6.109 | 0.00 | 31.97 |
| 108.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 6.142 | 0.00 | 8.63 |
| 108.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 6.142 | 0.00 | 11.17 |
| 108.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.89 | 0.00 | 0.048 | 0.000 | 6.142 | 0.00 | 32.02 |
| 110.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 6.174 | 0.00 | 8.66 |
| 110.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 6.174 | 0.00 | 11.20 |
| 110.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.89 | 0.00 | 0.048 | 0.000 | 6.174 | 0.00 | 32.08 |
| 111.17 | Safety Cable | Yes | 1.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 6.193 | 0.00 | 5.08 |
| 111.17 | Step bolts (ladder) | Yes | 1.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 6.193 | 0.00 | 6.56 |
| 111.17 | 1 5/8" Coax | Yes | 1.17 | 0.000 | 1.98 | 0.52 | 0.00 | 0.049 | 0.000 | 6.193 | 0.00 | 18.78 |
| 111.17 | C6X10.5 Reinforcing | Yes | 1.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 6.193 | 0.00 | 10.34 |
| 112.00 | Safety Cable | Yes | 0.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 6.206 | 0.00 | 3.61 |
| 112.00 | Step bolts (ladder) | Yes | 0.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 6.206 | 0.00 | 4.66 |
| 112.00 | 1 5/8" Coax | Yes | 0.83 | 0.000 | 1.98 | 0.37 | 0.00 | 0.049 | 0.000 | 6.206 | 0.00 | 13.33 |
| 112.00 | C6X10.5 Reinforcing | Yes | 0.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 6.206 | 0.00 | 7.34 |
| 114.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 6.238 | 0.00 | 8.71 |
| 114.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 6.238 | 0.00 | 11.26 |
| 114.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.90 | 0.00 | 0.050 | 0.000 | 6.238 | 0.00 | 32.19 |
| 114.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 6.238 | 0.00 | 17.73 |
| 115.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 6.253 | 0.00 | 4.36 |
| 115.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 6.253 | 0.00 | 5.64 |
| 115.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.45 | 0.00 | 0.050 | 0.000 | 6.253 | 0.00 | 16.11 |
| 115.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 6.253 | 0.00 | 8.88 |
| 116.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 6.269 | 0.00 | 4.37 |
| 116.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 6.269 | 0.00 | 5.64 |
| 116.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.45 | 0.00 | 0.050 | 0.000 | 6.269 | 0.00 | 16.12 |
| 116.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 6.269 | 0.00 | 8.89 |
| 118.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.051 | 0.000 | 6.299 | 0.00 | 8.77 |
| 118.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.051 | 0.000 | 6.299 | 0.00 | 11.31 |
| 118.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.90 | 0.00 | 0.051 | 0.000 | 6.299 | 0.00 | 32.29 |
| 118.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.051 | 0.000 | 6.299 | 0.00 | 17.81 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 59

| | |
|--|---|
| Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind | Iterations 29 |
| Dead Load Factor 1.20 |  |
| Wind Load Factor 1.00 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 120.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 6.330 | 0.00 | 8.79 |
| 120.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 6.330 | 0.00 | 11.34 |
| 120.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.90 | 0.00 | 0.052 | 0.000 | 6.330 | 0.00 | 32.34 |
| 120.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 6.330 | 0.00 | 17.86 |
| 122.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 6.360 | 0.00 | 8.82 |
| 122.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 6.360 | 0.00 | 11.36 |
| 122.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.90 | 0.00 | 0.052 | 0.000 | 6.360 | 0.00 | 32.39 |
| 122.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 6.360 | 0.00 | 17.90 |
| 123.83 | Safety Cable | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 6.387 | 0.00 | 8.09 |
| 123.83 | Step bolts (ladder) | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 6.387 | 0.00 | 10.42 |
| 123.83 | 1 5/8" Coax | Yes | 1.83 | 0.000 | 1.98 | 0.82 | 0.00 | 0.053 | 0.000 | 6.387 | 0.00 | 29.68 |
| 123.83 | C6X10.5 Reinforcing | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 6.387 | 0.00 | 16.41 |
| 124.00 | Safety Cable | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 6.389 | 0.00 | 0.75 |
| 124.00 | Step bolts (ladder) | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 6.389 | 0.00 | 0.97 |
| 124.00 | 1 5/8" Coax | Yes | 0.17 | 0.000 | 1.98 | 0.08 | 0.00 | 0.053 | 0.000 | 6.389 | 0.00 | 2.76 |
| 124.00 | C6X10.5 Reinforcing | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 6.389 | 0.00 | 1.52 |
| 126.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 6.419 | 0.00 | 8.87 |
| 126.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 6.419 | 0.00 | 11.42 |
| 126.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.90 | 0.00 | 0.053 | 0.000 | 6.419 | 0.00 | 32.49 |
| 126.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 6.419 | 0.00 | 8.99 |
| 128.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.054 | 0.000 | 6.448 | 0.00 | 8.89 |
| 128.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.054 | 0.000 | 6.448 | 0.00 | 11.44 |
| 128.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.90 | 0.00 | 0.054 | 0.000 | 6.448 | 0.00 | 32.53 |
| 130.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.055 | 0.000 | 6.476 | 0.00 | 8.91 |
| 130.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.055 | 0.000 | 6.476 | 0.00 | 11.47 |
| 130.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.90 | 0.00 | 0.055 | 0.000 | 6.476 | 0.00 | 32.58 |
| 132.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 6.504 | 0.00 | 8.94 |
| 132.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 6.504 | 0.00 | 11.49 |
| 132.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.90 | 0.00 | 0.056 | 0.000 | 6.504 | 0.00 | 32.63 |
| 134.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 6.532 | 0.00 | 8.96 |
| 134.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 6.532 | 0.00 | 11.52 |
| 134.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.91 | 0.00 | 0.056 | 0.000 | 6.532 | 0.00 | 32.67 |
| 135.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 6.546 | 0.00 | 4.49 |
| 135.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 6.546 | 0.00 | 5.76 |
| 135.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.45 | 0.00 | 0.057 | 0.000 | 6.546 | 0.00 | 16.35 |
| 136.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 6.560 | 0.00 | 4.49 |
| 136.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 6.560 | 0.00 | 5.77 |
| 136.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.45 | 0.00 | 0.057 | 0.000 | 6.560 | 0.00 | 16.36 |
| 138.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 6.588 | 0.00 | 9.01 |
| 138.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 6.588 | 0.00 | 11.56 |
| 138.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.91 | 0.00 | 0.057 | 0.000 | 6.588 | 0.00 | 32.76 |
| 140.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.058 | 0.000 | 6.615 | 0.00 | 9.03 |
| 140.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.058 | 0.000 | 6.615 | 0.00 | 11.59 |
| 140.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.91 | 0.00 | 0.058 | 0.000 | 6.615 | 0.00 | 32.81 |
| 142.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 6.642 | 0.00 | 9.05 |
| 142.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 6.642 | 0.00 | 11.61 |
| 142.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.91 | 0.00 | 0.059 | 0.000 | 6.642 | 0.00 | 32.85 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 60

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 29

Dead Load Factor 1.20

Wind Load Factor 1.00



| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 143.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 6.655 | 0.00 | 4.53 |
| 143.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 6.655 | 0.00 | 5.81 |
| 143.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.45 | 0.00 | 0.059 | 0.000 | 6.655 | 0.00 | 16.44 |
| 144.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 6.668 | 0.00 | 4.54 |
| 144.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 6.668 | 0.00 | 5.82 |
| 144.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.45 | 0.00 | 0.060 | 0.000 | 6.668 | 0.00 | 16.45 |
| 146.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 6.695 | 0.00 | 9.10 |
| 146.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 6.695 | 0.00 | 11.66 |
| 146.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.91 | 0.00 | 0.060 | 0.000 | 6.695 | 0.00 | 32.94 |
| 148.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.061 | 0.000 | 6.721 | 0.00 | 9.12 |
| 148.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.061 | 0.000 | 6.721 | 0.00 | 11.68 |
| 148.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.91 | 0.00 | 0.061 | 0.000 | 6.721 | 0.00 | 32.98 |
| 150.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.062 | 0.000 | 6.746 | 0.00 | 9.14 |
| 150.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.062 | 0.000 | 6.746 | 0.00 | 11.70 |
| 150.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.91 | 0.00 | 0.062 | 0.000 | 6.746 | 0.00 | 33.02 |
| 152.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.063 | 0.000 | 6.772 | 0.00 | 9.16 |
| 152.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.063 | 0.000 | 6.772 | 0.00 | 11.72 |
| 152.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.91 | 0.00 | 0.063 | 0.000 | 6.772 | 0.00 | 33.06 |
| 153.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 6.785 | 0.00 | 4.59 |
| 153.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 6.785 | 0.00 | 5.87 |
| 153.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.46 | 0.00 | 0.064 | 0.000 | 6.785 | 0.00 | 16.54 |
| 154.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 6.797 | 0.00 | 4.59 |
| 154.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 6.797 | 0.00 | 5.87 |
| 154.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.46 | 0.00 | 0.064 | 0.000 | 6.797 | 0.00 | 16.55 |
| 156.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.065 | 0.000 | 6.822 | 0.00 | 9.20 |
| 156.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.065 | 0.000 | 6.822 | 0.00 | 11.77 |
| 156.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.91 | 0.00 | 0.065 | 0.000 | 6.822 | 0.00 | 33.14 |
| 158.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.066 | 0.000 | 6.847 | 0.00 | 9.22 |
| 158.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.066 | 0.000 | 6.847 | 0.00 | 11.79 |
| 158.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.91 | 0.00 | 0.066 | 0.000 | 6.847 | 0.00 | 33.18 |
| 160.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.067 | 0.000 | 6.872 | 0.00 | 9.24 |
| 160.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.067 | 0.000 | 6.872 | 0.00 | 11.81 |
| 160.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.92 | 0.00 | 0.067 | 0.000 | 6.872 | 0.00 | 33.22 |
| 162.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.068 | 0.000 | 6.896 | 0.00 | 9.26 |
| 162.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.068 | 0.000 | 6.896 | 0.00 | 11.83 |
| 162.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.92 | 0.00 | 0.068 | 0.000 | 6.896 | 0.00 | 33.26 |
| 163.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.069 | 0.000 | 6.909 | 0.00 | 4.64 |
| 163.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.069 | 0.000 | 6.909 | 0.00 | 5.92 |
| 163.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.46 | 0.00 | 0.069 | 0.000 | 6.909 | 0.00 | 16.64 |
| 164.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.070 | 0.000 | 6.921 | 0.00 | 4.64 |
| 164.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.070 | 0.000 | 6.921 | 0.00 | 5.92 |
| 164.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.46 | 0.00 | 0.070 | 0.000 | 6.921 | 0.00 | 16.65 |
| 166.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.071 | 0.000 | 6.945 | 0.00 | 9.30 |
| 166.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.071 | 0.000 | 6.945 | 0.00 | 11.87 |
| 166.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.92 | 0.00 | 0.071 | 0.000 | 6.945 | 0.00 | 33.34 |
| 168.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.072 | 0.000 | 6.968 | 0.00 | 9.32 |
| 168.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.072 | 0.000 | 6.968 | 0.00 | 11.89 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 61

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 29

Dead Load Factor 1.20

Wind Load Factor 1.00



| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|----------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|------------|----------------|
| 168.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.92 | 0.00 | 0.072 | 0.000 | 6.968 | 0.00 | 33.37 |
| 170.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.073 | 0.000 | 6.992 | 0.00 | 9.34 |
| 170.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.073 | 0.000 | 6.992 | 0.00 | 11.91 |
| 170.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.92 | 0.00 | 0.073 | 0.000 | 6.992 | 0.00 | 33.41 |
| 172.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.075 | 0.000 | 7.015 | 0.00 | 9.36 |
| 172.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.075 | 0.000 | 7.015 | 0.00 | 11.93 |
| 172.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.92 | 0.00 | 0.075 | 0.000 | 7.015 | 0.00 | 33.45 |
| 173.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.076 | 0.000 | 7.027 | 0.00 | 4.68 |
| 173.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.076 | 0.000 | 7.027 | 0.00 | 5.97 |
| 173.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.46 | 0.00 | 0.076 | 0.000 | 7.027 | 0.00 | 16.73 |
| 174.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.039 | 0.00 | 4.69 |
| 174.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.039 | 0.00 | 5.97 |
| 176.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.062 | 0.00 | 9.40 |
| 176.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.062 | 0.00 | 11.97 |
| 178.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.085 | 0.00 | 9.42 |
| 178.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.085 | 0.00 | 11.99 |
| 180.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.107 | 0.00 | 9.43 |
| 180.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.107 | 0.00 | 12.01 |
| 181.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.118 | 0.00 | 4.72 |
| 181.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.118 | 0.00 | 6.01 |
| 182.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.130 | 0.00 | 4.73 |
| 182.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.130 | 0.00 | 6.01 |
| 183.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.141 | 0.00 | 4.73 |
| 183.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 7.141 | 0.00 | 6.02 |
| Totals: | | | | | | | | | | | 0.0 | 4,918.5 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 62

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 29

Dead Load Factor 1.20
Wind Load Factor 1.00



| 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 Sway (deg) | Rotation Twist (deg) | Stress Ratio |
|---------------|------------------|------------------|---------------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|---------------------|----------------------|--------------|
| 0.00 | -98.45 | -9.53 | 0.00 | -1251.6 | 0.00 | 1251.63 | 5190.16 | 2595.08 | 13702.9 | 6861.66 | 0.00 | 0.000 | 0.000 | 0.201 |
| 2.00 | -97.51 | -9.49 | 0.00 | -1232.5 | 0.00 | 1232.57 | 5174.50 | 2587.25 | 13560.7 | 6790.43 | 0.00 | -0.018 | 0.000 | 0.200 |
| 4.00 | -96.56 | -9.46 | 0.00 | -1213.5 | 0.00 | 1213.58 | 5158.51 | 2579.25 | 13418.2 | 6719.08 | 0.02 | -0.036 | 0.000 | 0.199 |
| 6.00 | -95.61 | -9.43 | 0.00 | -1194.6 | 0.00 | 1194.66 | 5142.18 | 2571.09 | 13275.4 | 6647.61 | 0.03 | -0.054 | 0.000 | 0.198 |
| 8.00 | -94.66 | -9.40 | 0.00 | -1175.8 | 0.00 | 1175.81 | 5125.52 | 2562.76 | 13132.5 | 6576.03 | 0.06 | -0.072 | 0.000 | 0.197 |
| 10.00 | -93.71 | -9.36 | 0.00 | -1157.0 | 0.00 | 1157.02 | 5108.53 | 2554.27 | 12989.4 | 6504.36 | 0.10 | -0.090 | 0.000 | 0.196 |
| 12.00 | -92.76 | -9.33 | 0.00 | -1138.2 | 0.00 | 1138.29 | 5091.21 | 2545.61 | 12846.0 | 6432.60 | 0.14 | -0.109 | 0.000 | 0.195 |
| 14.00 | -91.81 | -9.30 | 0.00 | -1119.6 | 0.00 | 1119.63 | 5073.56 | 2536.78 | 12702.6 | 6360.75 | 0.19 | -0.127 | 0.000 | 0.194 |
| 16.00 | -90.86 | -9.26 | 0.00 | -1101.0 | 0.00 | 1101.04 | 5055.57 | 2527.79 | 12559.0 | 6288.85 | 0.24 | -0.146 | 0.000 | 0.193 |
| 18.00 | -89.92 | -9.23 | 0.00 | -1082.5 | 0.00 | 1082.52 | 5037.25 | 2518.63 | 12415.3 | 6216.88 | 0.31 | -0.165 | 0.000 | 0.192 |
| 20.00 | -88.98 | -9.20 | 0.00 | -1064.0 | 0.00 | 1064.06 | 5018.60 | 2509.30 | 12271.4 | 6144.86 | 0.38 | -0.184 | 0.000 | 0.191 |
| 22.00 | -88.04 | -9.16 | 0.00 | -1045.6 | 0.00 | 1045.67 | 4999.62 | 2499.81 | 12127.5 | 6072.81 | 0.46 | -0.203 | 0.000 | 0.190 |
| 24.00 | -87.11 | -9.13 | 0.00 | -1027.3 | 0.00 | 1027.34 | 4980.31 | 2490.15 | 11983.6 | 6000.72 | 0.55 | -0.222 | 0.000 | 0.189 |
| 26.00 | -86.19 | -9.10 | 0.00 | -1009.0 | 0.00 | 1009.08 | 4960.66 | 2480.33 | 11839.6 | 5928.62 | 0.65 | -0.241 | 0.000 | 0.188 |
| 28.00 | -85.26 | -9.06 | 0.00 | -990.89 | 0.00 | 990.89 | 4940.68 | 2470.34 | 11695.6 | 5856.50 | 0.76 | -0.260 | 0.000 | 0.186 |
| 30.00 | -84.34 | -9.03 | 0.00 | -972.76 | 0.00 | 972.76 | 4920.37 | 2460.19 | 11551.6 | 5784.39 | 0.87 | -0.280 | 0.000 | 0.185 |
| 32.00 | -83.43 | -9.00 | 0.00 | -954.70 | 0.00 | 954.70 | 4899.73 | 2449.87 | 11407.6 | 5712.28 | 0.99 | -0.300 | 0.000 | 0.184 |
| 34.00 | -82.52 | -8.96 | 0.00 | -936.71 | 0.00 | 936.71 | 4878.76 | 2439.38 | 11263.6 | 5640.19 | 1.12 | -0.319 | 0.000 | 0.183 |
| 36.00 | -81.62 | -8.93 | 0.00 | -918.79 | 0.00 | 918.79 | 4857.45 | 2428.72 | 11119.7 | 5568.14 | 1.26 | -0.339 | 0.000 | 0.182 |
| 38.00 | -80.72 | -8.89 | 0.00 | -900.94 | 0.00 | 900.94 | 4835.81 | 2417.91 | 10975.9 | 5496.12 | 1.40 | -0.359 | 0.000 | 0.181 |
| 40.00 | -79.82 | -8.84 | 0.00 | -883.16 | 0.00 | 883.16 | 4813.84 | 2406.92 | 10832.2 | 5424.15 | 1.56 | -0.379 | 0.000 | 0.179 |
| 41.00 | -79.38 | -8.82 | 0.00 | -874.32 | 0.00 | 874.32 | 4802.73 | 2401.36 | 10760.3 | 5388.18 | 1.64 | -0.389 | 0.000 | 0.179 |
| 42.00 | -78.66 | -8.81 | 0.00 | -865.49 | 0.00 | 865.49 | 4791.54 | 2395.77 | 10688.5 | 5352.24 | 1.72 | -0.400 | 0.000 | 0.178 |
| 44.00 | -77.24 | -8.77 | 0.00 | -847.88 | 0.00 | 847.88 | 4768.90 | 2384.45 | 10545.1 | 5280.39 | 1.90 | -0.420 | 0.000 | 0.177 |
| 46.00 | -75.83 | -8.72 | 0.00 | -830.35 | 0.00 | 830.35 | 4745.94 | 2372.97 | 10401.7 | 5208.63 | 2.08 | -0.440 | 0.000 | 0.175 |
| 48.00 | -74.43 | -8.67 | 0.00 | -812.91 | 0.00 | 812.91 | 4759.60 | 2379.80 | 10486.7 | 5251.18 | 2.26 | -0.461 | 0.000 | 0.170 |
| 50.00 | -73.56 | -8.62 | 0.00 | -795.56 | 0.00 | 795.56 | 4736.50 | 2368.25 | 10343.5 | 5179.45 | 2.46 | -0.482 | 0.000 | 0.169 |
| 51.00 | -73.12 | -8.60 | 0.00 | -786.94 | 0.00 | 786.94 | 4724.82 | 2362.41 | 10271.9 | 5143.62 | 2.56 | -0.492 | 0.000 | 0.168 |
| 51.00 | -73.12 | -8.60 | 0.00 | -786.94 | 0.00 | 786.94 | 4064.30 | 2032.15 | 8835.99 | 4424.56 | 2.56 | -0.492 | 0.000 | 0.196 |
| 52.00 | -72.68 | -8.58 | 0.00 | -778.34 | 0.00 | 778.34 | 4053.20 | 2026.60 | 8772.35 | 4392.70 | 2.67 | -0.502 | 0.000 | 0.195 |
| 54.00 | -71.81 | -8.54 | 0.00 | -761.17 | 0.00 | 761.17 | 4030.83 | 2015.41 | 8645.34 | 4329.09 | 2.88 | -0.522 | 0.000 | 0.194 |
| 56.00 | -70.95 | -8.49 | 0.00 | -744.09 | 0.00 | 744.09 | 4008.20 | 2004.10 | 8518.66 | 4265.66 | 3.11 | -0.542 | 0.000 | 0.192 |
| 58.00 | -70.10 | -8.45 | 0.00 | -727.11 | 0.00 | 727.11 | 3985.33 | 1992.66 | 8392.33 | 4202.40 | 3.34 | -0.562 | 0.000 | 0.191 |
| 60.00 | -69.24 | -8.40 | 0.00 | -710.22 | 0.00 | 710.22 | 3962.20 | 1981.10 | 8266.38 | 4139.33 | 3.58 | -0.582 | 0.000 | 0.189 |
| 62.00 | -68.40 | -8.35 | 0.00 | -693.42 | 0.00 | 693.42 | 3938.82 | 1969.41 | 8140.81 | 4076.46 | 3.83 | -0.602 | 0.000 | 0.187 |
| 64.00 | -67.56 | -8.30 | 0.00 | -676.72 | 0.00 | 676.72 | 3915.19 | 1957.60 | 8015.64 | 4013.78 | 4.08 | -0.623 | 0.000 | 0.186 |
| 66.00 | -66.71 | -8.24 | 0.00 | -660.11 | 0.00 | 660.11 | 3891.31 | 1945.66 | 7890.88 | 3951.30 | 4.35 | -0.643 | 0.000 | 0.184 |
| 66.17 | -66.64 | -8.25 | 0.00 | -658.71 | 0.00 | 658.71 | 3889.27 | 1944.64 | 7880.29 | 3946.00 | 4.37 | -0.645 | 0.000 | 0.135 |
| 68.00 | -65.86 | -8.20 | 0.00 | -643.62 | 0.00 | 643.62 | 3867.19 | 1933.59 | 7766.55 | 3889.05 | 4.62 | -0.659 | 0.000 | 0.134 |
| 70.00 | -65.01 | -8.14 | 0.00 | -627.23 | 0.00 | 627.23 | 3842.81 | 1921.40 | 7642.66 | 3827.01 | 4.90 | -0.674 | 0.000 | 0.132 |
| 71.00 | -64.58 | -8.11 | 0.00 | -619.09 | 0.00 | 619.09 | 3830.52 | 1915.26 | 7580.89 | 3796.08 | 5.04 | -0.681 | 0.000 | 0.131 |
| 71.00 | -64.58 | -8.11 | 0.00 | -619.09 | 0.00 | 619.09 | 3467.89 | 1733.95 | 6863.13 | 3436.66 | 5.04 | -0.681 | 0.000 | 0.145 |
| 72.00 | -64.16 | -8.08 | 0.00 | -610.98 | 0.00 | 610.98 | 3456.29 | 1728.14 | 6806.46 | 3408.29 | 5.19 | -0.689 | 0.000 | 0.144 |
| 74.00 | -63.33 | -8.03 | 0.00 | -594.82 | 0.00 | 594.82 | 3432.92 | 1716.46 | 6693.50 | 3351.73 | 5.48 | -0.704 | 0.000 | 0.142 |
| 76.00 | -62.49 | -7.97 | 0.00 | -578.76 | 0.00 | 578.76 | 3409.33 | 1704.67 | 6581.05 | 3295.42 | 5.78 | -0.719 | 0.000 | 0.141 |
| 78.00 | -61.67 | -7.91 | 0.00 | -562.82 | 0.00 | 562.82 | 3385.54 | 1692.77 | 6469.11 | 3239.36 | 6.08 | -0.734 | 0.000 | 0.139 |
| 80.00 | -60.85 | -7.85 | 0.00 | -547.00 | 0.00 | 547.00 | 3361.54 | 1680.77 | 6357.71 | 3183.58 | 6.39 | -0.749 | 0.000 | 0.137 |
| 81.00 | -60.44 | -7.82 | 0.00 | -539.15 | 0.00 | 539.15 | 3349.46 | 1674.73 | 6302.21 | 3155.79 | 6.55 | -0.757 | 0.000 | 0.136 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 63

| | | | | | | | | | | | | | | |
|--------|--------|-------|------|---------|------|--------|---------|---------|---------|---------|-------|--------|-------|-------|
| 81.00 | -60.44 | -7.82 | 0.00 | -539.15 | 0.00 | 539.15 | 2964.88 | 1482.44 | 5593.85 | 2801.08 | 6.55 | -0.757 | 0.000 | 0.128 |
| 82.00 | -60.07 | -7.80 | 0.00 | -531.32 | 0.00 | 531.32 | 2956.03 | 1478.01 | 5548.33 | 2778.29 | 6.71 | -0.764 | 0.000 | 0.144 |
| 84.00 | -59.33 | -7.74 | 0.00 | -515.72 | 0.00 | 515.72 | 2938.12 | 1469.06 | 5457.44 | 2732.78 | 7.03 | -0.781 | 0.000 | 0.142 |
| 85.00 | -58.97 | -7.71 | 0.00 | -507.98 | 0.00 | 507.98 | 2929.07 | 1464.54 | 5412.08 | 2710.06 | 7.20 | -0.790 | 0.000 | 0.140 |
| 86.00 | -58.42 | -7.69 | 0.00 | -500.27 | 0.00 | 500.27 | 2919.96 | 1459.98 | 5366.77 | 2687.37 | 7.36 | -0.798 | 0.000 | 0.138 |
| 88.00 | -57.32 | -7.63 | 0.00 | -484.90 | 0.00 | 484.90 | 2901.53 | 1450.76 | 5276.32 | 2642.08 | 7.70 | -0.815 | 0.000 | 0.136 |
| 90.00 | -56.24 | -7.56 | 0.00 | -469.65 | 0.00 | 469.65 | 2882.84 | 1441.42 | 5186.12 | 2596.92 | 8.05 | -0.831 | 0.000 | 0.133 |
| 91.00 | -55.70 | -7.53 | 0.00 | -462.09 | 0.00 | 462.09 | 2898.35 | 1449.17 | 5260.87 | 2634.34 | 8.22 | -0.840 | 0.000 | 0.134 |
| 92.00 | -55.34 | -7.50 | 0.00 | -454.56 | 0.00 | 454.56 | 2889.01 | 1444.51 | 5215.76 | 2611.76 | 8.40 | -0.848 | 0.000 | 0.130 |
| 93.83 | -54.68 | -7.44 | 0.00 | -440.83 | 0.00 | 440.83 | 2871.76 | 1435.88 | 5133.38 | 2570.50 | 8.73 | -0.863 | 0.000 | 0.127 |
| 93.83 | -54.68 | -7.44 | 0.00 | -440.83 | 0.00 | 440.83 | 2871.76 | 1435.88 | 5133.38 | 2570.50 | 8.73 | -0.863 | 0.000 | 0.127 |
| 94.00 | -54.62 | -7.45 | 0.00 | -439.57 | 0.00 | 439.57 | 2870.15 | 1435.07 | 5125.73 | 2566.68 | 8.76 | -0.864 | 0.000 | 0.190 |
| 96.00 | -53.92 | -7.40 | 0.00 | -424.67 | 0.00 | 424.67 | 2851.02 | 1425.51 | 5035.98 | 2521.73 | 9.12 | -0.888 | 0.000 | 0.187 |
| 98.00 | -53.24 | -7.35 | 0.00 | -409.87 | 0.00 | 409.87 | 2831.62 | 1415.81 | 4946.52 | 2476.93 | 9.50 | -0.912 | 0.000 | 0.184 |
| 100.00 | -52.56 | -7.30 | 0.00 | -395.17 | 0.00 | 395.17 | 2811.97 | 1405.98 | 4857.35 | 2432.29 | 9.89 | -0.936 | 0.000 | 0.181 |
| 102.00 | -51.89 | -7.25 | 0.00 | -380.58 | 0.00 | 380.58 | 2792.05 | 1396.03 | 4768.51 | 2387.80 | 10.29 | -0.959 | 0.000 | 0.178 |
| 104.00 | -51.23 | -7.20 | 0.00 | -366.08 | 0.00 | 366.08 | 2771.87 | 1385.94 | 4680.00 | 2343.48 | 10.69 | -0.983 | 0.000 | 0.175 |
| 106.00 | -50.58 | -7.15 | 0.00 | -351.69 | 0.00 | 351.69 | 2751.43 | 1375.71 | 4591.84 | 2299.33 | 11.11 | -1.007 | 0.000 | 0.171 |
| 108.00 | -49.94 | -7.10 | 0.00 | -337.39 | 0.00 | 337.39 | 2730.72 | 1365.36 | 4504.04 | 2255.37 | 11.54 | -1.030 | 0.000 | 0.168 |
| 110.00 | -49.30 | -7.05 | 0.00 | -323.19 | 0.00 | 323.19 | 2709.75 | 1354.88 | 4416.62 | 2211.59 | 11.97 | -1.053 | 0.000 | 0.164 |
| 111.17 | -48.92 | -7.02 | 0.00 | -314.95 | 0.00 | 314.95 | 2697.36 | 1348.68 | 4365.66 | 2186.08 | 12.23 | -1.067 | 0.000 | 0.130 |
| 112.00 | -48.65 | -7.00 | 0.00 | -309.12 | 0.00 | 309.12 | 2688.52 | 1344.26 | 4329.60 | 2168.02 | 12.42 | -1.074 | 0.000 | 0.128 |
| 114.00 | -48.00 | -6.94 | 0.00 | -295.13 | 0.00 | 295.13 | 2667.03 | 1333.51 | 4242.98 | 2124.64 | 12.87 | -1.093 | 0.000 | 0.125 |
| 115.00 | -47.68 | -6.91 | 0.00 | -288.18 | 0.00 | 288.18 | 2656.18 | 1328.09 | 4199.83 | 2103.04 | 13.10 | -1.102 | 0.000 | 0.121 |
| 115.00 | -47.68 | -6.91 | 0.00 | -288.18 | 0.00 | 288.18 | 1951.15 | 975.57 | 3095.05 | 1549.82 | 13.10 | -1.102 | 0.000 | 0.132 |
| 116.00 | -47.38 | -6.89 | 0.00 | -281.27 | 0.00 | 281.27 | 1944.57 | 972.29 | 3065.67 | 1535.11 | 13.33 | -1.110 | 0.000 | 0.153 |
| 118.00 | -46.80 | -6.84 | 0.00 | -267.49 | 0.00 | 267.49 | 1931.24 | 965.62 | 3006.98 | 1505.73 | 13.80 | -1.131 | 0.000 | 0.148 |
| 120.00 | -46.22 | -6.78 | 0.00 | -253.82 | 0.00 | 253.82 | 1917.63 | 958.82 | 2948.42 | 1476.40 | 14.28 | -1.151 | 0.000 | 0.143 |
| 122.00 | -45.65 | -6.73 | 0.00 | -240.25 | 0.00 | 240.25 | 1903.77 | 951.88 | 2889.98 | 1447.14 | 14.77 | -1.170 | 0.000 | 0.138 |
| 123.83 | -45.13 | -6.67 | 0.00 | -227.94 | 0.00 | 227.94 | 1890.85 | 945.43 | 2836.64 | 1420.43 | 15.22 | -1.188 | 0.000 | 0.134 |
| 123.83 | -45.13 | -6.67 | 0.00 | -227.94 | 0.00 | 227.94 | 1890.85 | 945.43 | 2836.64 | 1420.43 | 15.22 | -1.188 | 0.000 | 0.134 |
| 124.00 | -45.08 | -6.68 | 0.00 | -226.80 | 0.00 | 226.80 | 1889.64 | 944.82 | 2831.69 | 1417.95 | 15.26 | -1.189 | 0.000 | 0.184 |
| 126.00 | -44.52 | -6.63 | 0.00 | -213.45 | 0.00 | 213.45 | 1875.25 | 937.63 | 2773.56 | 1388.84 | 15.77 | -1.215 | 0.000 | 0.177 |
| 128.00 | -43.98 | -6.58 | 0.00 | -200.19 | 0.00 | 200.19 | 1860.60 | 930.30 | 2715.62 | 1359.83 | 16.28 | -1.240 | 0.000 | 0.171 |
| 130.00 | -43.44 | -6.53 | 0.00 | -187.03 | 0.00 | 187.03 | 1845.69 | 922.84 | 2657.86 | 1330.91 | 16.81 | -1.265 | 0.000 | 0.164 |
| 132.00 | -42.68 | -6.47 | 0.00 | -173.97 | 0.00 | 173.97 | 1830.51 | 915.25 | 2600.31 | 1302.09 | 17.34 | -1.289 | 0.000 | 0.157 |
| 134.00 | -41.92 | -6.41 | 0.00 | -161.02 | 0.00 | 161.02 | 1815.07 | 907.53 | 2542.99 | 1273.39 | 17.89 | -1.312 | 0.000 | 0.150 |
| 135.00 | -41.55 | -6.39 | 0.00 | -154.61 | 0.00 | 154.61 | 1823.79 | 911.89 | 2575.21 | 1289.52 | 18.16 | -1.323 | 0.000 | 0.143 |
| 136.00 | -41.29 | -6.36 | 0.00 | -148.22 | 0.00 | 148.22 | 1816.04 | 908.02 | 2546.57 | 1275.18 | 18.44 | -1.334 | 0.000 | 0.139 |
| 138.00 | -40.76 | -6.31 | 0.00 | -135.50 | 0.00 | 135.50 | 1800.35 | 900.18 | 2489.47 | 1246.58 | 19.00 | -1.354 | 0.000 | 0.131 |
| 140.00 | -40.24 | -6.26 | 0.00 | -122.88 | 0.00 | 122.88 | 1784.41 | 892.20 | 2432.62 | 1218.12 | 19.58 | -1.374 | 0.000 | 0.123 |
| 142.00 | -39.73 | -6.20 | 0.00 | -110.37 | 0.00 | 110.37 | 1768.19 | 884.10 | 2376.04 | 1189.79 | 20.16 | -1.392 | 0.000 | 0.115 |
| 143.00 | -31.70 | -4.95 | 0.00 | -104.17 | 0.00 | 104.17 | 1759.99 | 879.99 | 2347.86 | 1175.68 | 20.45 | -1.401 | 0.000 | 0.107 |
| 144.00 | -31.46 | -4.93 | 0.00 | -99.22 | 0.00 | 99.22 | 1751.72 | 875.86 | 2319.75 | 1161.60 | 20.74 | -1.409 | 0.000 | 0.103 |
| 146.00 | -30.99 | -4.87 | 0.00 | -89.36 | 0.00 | 89.36 | 1734.98 | 867.49 | 2263.76 | 1133.56 | 21.34 | -1.425 | 0.000 | 0.097 |
| 148.00 | -30.52 | -4.81 | 0.00 | -79.62 | 0.00 | 79.62 | 1717.98 | 858.99 | 2208.08 | 1105.68 | 21.94 | -1.440 | 0.000 | 0.090 |
| 150.00 | -30.06 | -4.76 | 0.00 | -69.99 | 0.00 | 69.99 | 1700.72 | 850.36 | 2152.74 | 1077.97 | 22.54 | -1.454 | 0.000 | 0.083 |
| 152.00 | -29.60 | -4.70 | 0.00 | -60.48 | 0.00 | 60.48 | 1683.20 | 841.60 | 2097.74 | 1050.43 | 23.16 | -1.467 | 0.000 | 0.075 |
| 153.00 | -21.96 | -3.35 | 0.00 | -55.78 | 0.00 | 55.78 | 1674.33 | 837.17 | 2070.37 | 1036.72 | 23.46 | -1.472 | 0.000 | 0.067 |
| 154.00 | -21.75 | -3.32 | 0.00 | -52.43 | 0.00 | 52.43 | 1665.41 | 832.70 | 2043.10 | 1023.07 | 23.77 | -1.478 | 0.000 | 0.064 |
| 156.00 | -21.33 | -3.27 | 0.00 | -45.78 | 0.00 | 45.78 | 1647.36 | 823.68 | 1988.83 | 995.90 | 24.39 | -1.489 | 0.000 | 0.059 |
| 158.00 | -18.11 | -2.83 | 0.00 | -39.25 | 0.00 | 39.25 | 1629.04 | 814.52 | 1934.96 | 968.92 | 25.02 | -1.498 | 0.000 | 0.052 |
| 160.00 | -17.70 | -2.78 | 0.00 | -33.58 | 0.00 | 33.58 | 1610.47 | 805.23 | 1881.50 | 942.15 | 25.65 | -1.507 | 0.000 | 0.047 |
| 162.00 | -17.30 | -2.72 | 0.00 | -28.03 | 0.00 | 28.03 | 1591.63 | 795.82 | 1828.46 | 915.59 | 26.28 | -1.514 | 0.000 | 0.041 |
| 163.00 | -13.74 | -2.19 | 0.00 | -25.31 | 0.00 | 25.31 | 1582.11 | 791.06 | 1802.10 | 902.39 | 26.60 | -1.518 | 0.000 | 0.037 |
| 164.00 | -13.55 | -2.16 | 0.00 | -23.13 | 0.00 | 23.13 | 1572.53 | 786.27 | 1775.86 | 889.25 | 26.92 | -1.521 | 0.000 | 0.035 |
| 166.00 | -13.16 | -2.10 | 0.00 | -18.81 | 0.00 | 18.81 | 1553.17 | 776.58 | 1723.71 | 863.13 | 27.56 | -1.527 | 0.000 | 0.030 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-----------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Page: 64 |
| | Struct Class: II | |



| | | | | | | | | | | | | | | |
|--------|--------|-------|------|--------|------|-------|---------|--------|---------|--------|-------|--------|-------|-------|
| 168.00 | -12.78 | -2.04 | 0.00 | -14.61 | 0.00 | 14.61 | 1533.54 | 766.77 | 1672.03 | 837.26 | 28.20 | -1.531 | 0.000 | 0.026 |
| 170.00 | -12.41 | -1.99 | 0.00 | -10.52 | 0.00 | 10.52 | 1513.65 | 756.83 | 1620.83 | 811.62 | 28.84 | -1.535 | 0.000 | 0.021 |
| 172.00 | -12.04 | -1.93 | 0.00 | -6.55 | 0.00 | 6.55 | 1493.50 | 746.75 | 1570.13 | 786.23 | 29.48 | -1.538 | 0.000 | 0.016 |
| 173.00 | -4.31 | -0.65 | 0.00 | -4.62 | 0.00 | 4.62 | 1483.33 | 741.66 | 1544.98 | 773.64 | 29.80 | -1.539 | 0.000 | 0.009 |
| 174.00 | -4.16 | -0.62 | 0.00 | -3.97 | 0.00 | 3.97 | 1473.09 | 736.54 | 1519.95 | 761.10 | 30.13 | -1.540 | 0.000 | 0.008 |
| 176.00 | -3.86 | -0.57 | 0.00 | -2.72 | 0.00 | 2.72 | 1452.41 | 726.20 | 1470.30 | 736.24 | 30.77 | -1.541 | 0.000 | 0.006 |
| 178.00 | -3.57 | -0.52 | 0.00 | -1.58 | 0.00 | 1.58 | 1427.85 | 713.93 | 1417.60 | 709.85 | 31.42 | -1.542 | 0.000 | 0.005 |
| 180.00 | -3.28 | -0.47 | 0.00 | -0.54 | 0.00 | 0.54 | 1400.09 | 700.05 | 1362.74 | 682.38 | 32.06 | -1.542 | 0.000 | 0.003 |
| 180.00 | -3.28 | -0.47 | 0.00 | -0.54 | 0.00 | 0.54 | 678.42 | 339.21 | 662.23 | 396.30 | 32.06 | -1.542 | 0.000 | 0.006 |
| 181.00 | -0.30 | -0.05 | 0.00 | -0.08 | 0.00 | 0.08 | 678.42 | 339.21 | 662.23 | 396.30 | 32.39 | -1.542 | 0.000 | 0.001 |
| 182.00 | -0.15 | -0.03 | 0.00 | -0.03 | 0.00 | 0.03 | 678.42 | 339.21 | 662.23 | 396.30 | 32.71 | -1.542 | 0.000 | 0.000 |
| 183.00 | 0.00 | -0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 678.42 | 339.21 | 662.23 | 396.30 | 33.03 | -1.542 | 0.000 | 0.000 |

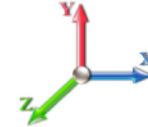
Seismic Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 65

| | | | | | | |
|-------------------------------|------|---------------------------------|------|------------|------|---------------------------------------|
| Load Case: 1.2D + 1.0E | | | | | | Iterations 26 |
| Gust Response Factor | 1.10 | Sds | 0.17 | | | Ss 0.16 |
| Dead Load Factor | 1.20 | Seismic Load Factor | 1.00 | Sd1 | 0.09 | S1 0.06 |
| Wind Load Factor | 0.00 | Structure Frequency (f1) | 0.28 | SA | 0.03 | Seismic Importance Factor 1.00 |



| Top Elev (ft) | Description | Wz (lb) | a | b | c | Lateral Fs (lb) | R: 1.50 |
|---------------|-----------------|---------|------|------|------|-----------------|---------|
| 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2.00 | | 517.51 | 0.00 | 0.01 | 0.01 | 4.39 | |
| 4.00 | | 513.69 | 0.00 | 0.02 | 0.01 | 7.39 | |
| 6.00 | | 509.88 | 0.00 | 0.03 | 0.02 | 9.55 | |
| 8.00 | | 506.07 | 0.00 | 0.04 | 0.02 | 11.15 | |
| 10.00 | | 502.25 | 0.01 | 0.05 | 0.03 | 12.34 | |
| 12.00 | | 498.44 | 0.01 | 0.05 | 0.03 | 13.23 | |
| 14.00 | | 494.62 | 0.01 | 0.06 | 0.03 | 13.90 | |
| 16.00 | | 490.81 | 0.01 | 0.06 | 0.04 | 14.39 | |
| 18.00 | | 487.00 | 0.02 | 0.06 | 0.04 | 14.76 | |
| 20.00 | | 483.18 | 0.02 | 0.07 | 0.04 | 15.01 | |
| 22.00 | | 479.37 | 0.03 | 0.07 | 0.04 | 15.19 | |
| 24.00 | | 475.56 | 0.03 | 0.07 | 0.04 | 15.31 | |
| 26.00 | | 471.74 | 0.04 | 0.07 | 0.04 | 15.39 | |
| 28.00 | | 467.93 | 0.04 | 0.07 | 0.04 | 15.43 | |
| 30.00 | | 464.11 | 0.05 | 0.07 | 0.04 | 15.46 | |
| 32.00 | | 460.30 | 0.06 | 0.07 | 0.04 | 15.46 | |
| 34.00 | | 456.49 | 0.07 | 0.07 | 0.04 | 15.46 | |
| 36.00 | | 452.67 | 0.07 | 0.07 | 0.04 | 15.45 | |
| 38.00 | | 448.86 | 0.08 | 0.07 | 0.04 | 15.44 | |
| 40.00 | | 445.05 | 0.09 | 0.07 | 0.04 | 15.43 | |
| 41.00 | Bot - Section 2 | 221.09 | 0.09 | 0.07 | 0.04 | 7.70 | |
| 42.00 | | 443.32 | 0.10 | 0.07 | 0.04 | 15.50 | |
| 44.00 | | 880.91 | 0.11 | 0.07 | 0.04 | 31.04 | |
| 46.00 | | 873.28 | 0.12 | 0.07 | 0.03 | 31.02 | |
| 48.00 | Top - Section 1 | 865.66 | 0.13 | 0.07 | 0.03 | 30.99 | |
| 50.00 | | 432.05 | 0.14 | 0.07 | 0.03 | 15.58 | |
| 51.00 | Top - Section 2 | 214.60 | 0.15 | 0.07 | 0.03 | 7.77 | |
| 52.00 | | 213.64 | 0.15 | 0.07 | 0.03 | 7.76 | |
| 54.00 | | 424.43 | 0.16 | 0.07 | 0.03 | 15.49 | |
| 56.00 | | 420.61 | 0.18 | 0.07 | 0.03 | 15.42 | |
| 58.00 | | 416.80 | 0.19 | 0.06 | 0.02 | 15.31 | |
| 60.00 | | 412.98 | 0.20 | 0.06 | 0.02 | 15.16 | |
| 62.00 | | 409.17 | 0.22 | 0.06 | 0.02 | 14.97 | |
| 64.00 | | 405.36 | 0.23 | 0.06 | 0.02 | 14.72 | |
| 66.00 | | 401.54 | 0.25 | 0.06 | 0.02 | 14.40 | |
| 66.17 | RB1 | 33.96 | 0.25 | 0.06 | 0.02 | 1.22 | |
| 68.00 | | 363.77 | 0.26 | 0.05 | 0.02 | 12.82 | |
| 70.00 | | 393.92 | 0.28 | 0.05 | 0.01 | 13.53 | |
| 71.00 | Top - Section 3 | 195.53 | 0.28 | 0.05 | 0.01 | 6.61 | |
| 72.00 | | 194.57 | 0.29 | 0.05 | 0.01 | 6.46 | |
| 74.00 | | 386.28 | 0.31 | 0.04 | 0.01 | 12.26 | |
| 76.00 | | 382.47 | 0.33 | 0.04 | 0.01 | 11.46 | |
| 78.00 | | 378.66 | 0.34 | 0.03 | 0.01 | 10.52 | |
| 80.00 | | 374.84 | 0.36 | 0.03 | 0.01 | 9.46 | |
| 81.00 | Top - Section 4 | 185.99 | 0.37 | 0.03 | 0.01 | 4.43 | |

Seismic Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 66

| 82.00 | | 154.41 | 0.38 | 0.02 | 0.01 | 3.44 |
|--------|-----------------|--------|------|-------|------|--------|
| 84.00 | | 306.44 | 0.40 | 0.02 | 0.01 | 5.79 |
| 85.00 | Bot - Section 6 | 152.03 | 0.41 | 0.02 | 0.01 | 2.59 |
| 86.00 | | 304.57 | 0.42 | 0.01 | 0.01 | 4.60 |
| 88.00 | | 604.38 | 0.44 | 0.01 | 0.01 | 6.62 |
| 90.00 | | 598.02 | 0.46 | 0.00 | 0.01 | 3.89 |
| 91.00 | Top - Section 5 | 296.63 | 0.47 | 0.00 | 0.01 | 1.24 |
| 92.00 | | 148.58 | 0.48 | -0.01 | 0.01 | 0.27 |
| 93.83 | RT1 | 269.84 | 0.50 | -0.01 | 0.01 | -0.71 |
| 94.00 | | 24.93 | 0.50 | -0.02 | 0.01 | -0.08 |
| 96.00 | | 291.59 | 0.52 | -0.02 | 0.01 | -2.31 |
| 98.00 | | 288.41 | 0.54 | -0.03 | 0.01 | -3.67 |
| 100.00 | | 285.23 | 0.56 | -0.04 | 0.01 | -4.95 |
| 102.00 | | 282.06 | 0.59 | -0.05 | 0.01 | -6.12 |
| 104.00 | | 278.88 | 0.61 | -0.06 | 0.02 | -7.16 |
| 106.00 | | 483.88 | 0.63 | -0.07 | 0.02 | -14.14 |
| 108.00 | | 478.16 | 0.66 | -0.07 | 0.02 | -15.44 |
| 110.00 | | 472.44 | 0.68 | -0.08 | 0.03 | -16.47 |
| 111.17 | RB2 | 273.72 | 0.70 | -0.09 | 0.03 | -9.88 |
| 112.00 | | 192.99 | 0.71 | -0.09 | 0.03 | -7.12 |
| 114.00 | | 461.00 | 0.73 | -0.10 | 0.04 | -17.69 |
| 115.00 | Top - Section 6 | 130.30 | 0.75 | -0.10 | 0.04 | -5.07 |
| 116.00 | | 103.77 | 0.76 | -0.10 | 0.04 | -4.08 |
| 118.00 | | 205.64 | 0.79 | -0.11 | 0.05 | -8.16 |
| 120.00 | | 203.10 | 0.81 | -0.11 | 0.06 | -8.03 |
| 122.00 | | 200.55 | 0.84 | -0.12 | 0.07 | -7.80 |
| 123.83 | RT2 | 181.28 | 0.87 | -0.12 | 0.07 | -6.86 |
| 124.00 | | 16.73 | 0.87 | -0.12 | 0.08 | -0.63 |
| 126.00 | | 195.47 | 0.90 | -0.12 | 0.09 | -7.04 |
| 128.00 | | 192.93 | 0.92 | -0.12 | 0.10 | -6.53 |
| 130.00 | Bot - Section 8 | 190.38 | 0.95 | -0.12 | 0.11 | -5.93 |
| 132.00 | | 378.38 | 0.98 | -0.11 | 0.12 | -10.59 |
| 134.00 | | 373.30 | 1.01 | -0.11 | 0.14 | -9.08 |
| 135.00 | Top - Section 7 | 184.74 | 1.03 | -0.10 | 0.15 | -4.13 |
| 136.00 | | 92.41 | 1.04 | -0.10 | 0.15 | -1.87 |
| 138.00 | | 182.92 | 1.07 | -0.08 | 0.17 | -2.85 |
| 140.00 | | 180.37 | 1.11 | -0.07 | 0.19 | -1.89 |
| 142.00 | | 177.83 | 1.14 | -0.05 | 0.21 | -0.88 |
| 143.00 | Appurtenance(s) | 2977.2 | 1.15 | -0.03 | 0.22 | -5.89 |
| 144.00 | | 87.33 | 1.17 | -0.02 | 0.23 | 0.10 |
| 146.00 | | 172.75 | 1.20 | 0.01 | 0.26 | 1.32 |
| 148.00 | | 170.20 | 1.24 | 0.04 | 0.28 | 2.49 |
| 150.00 | | 167.66 | 1.27 | 0.08 | 0.31 | 3.71 |
| 152.00 | | 165.12 | 1.30 | 0.13 | 0.34 | 4.97 |
| 153.00 | Appurtenance(s) | 3283.2 | 1.32 | 0.15 | 0.36 | 112.47 |
| 154.00 | | 80.97 | 1.34 | 0.18 | 0.37 | 3.12 |
| 156.00 | | 160.03 | 1.37 | 0.24 | 0.40 | 7.60 |
| 158.00 | Appurtenance(s) | 1657.4 | 1.41 | 0.30 | 0.44 | 94.40 |
| 160.00 | | 154.95 | 1.44 | 0.37 | 0.48 | 10.37 |
| 162.00 | | 152.40 | 1.48 | 0.46 | 0.52 | 11.79 |
| 163.00 | Appurtenance(s) | 1787.0 | 1.50 | 0.50 | 0.54 | 147.95 |
| 164.00 | | 74.61 | 1.52 | 0.55 | 0.56 | 6.59 |
| 166.00 | | 147.32 | 1.56 | 0.65 | 0.61 | 14.71 |
| 168.00 | | 144.78 | 1.59 | 0.76 | 0.66 | 16.19 |
| 170.00 | | 142.23 | 1.63 | 0.88 | 0.71 | 17.69 |
| 172.00 | | 139.69 | 1.67 | 1.01 | 0.77 | 19.19 |
| 173.00 | Appurtenance(s) | 2925.6 | 1.69 | 1.08 | 0.80 | 421.61 |

Seismic Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 67

| | | | | | | |
|----------------|-----------------|-----------------|------|------|------|-----------------------------|
| 174.00 | | 68.26 | 1.71 | 1.16 | 0.83 | 10.30 |
| 176.00 | | 134.61 | 1.75 | 1.31 | 0.89 | 22.22 |
| 178.00 | | 132.06 | 1.79 | 1.49 | 0.96 | 23.74 |
| 180.00 | Top - Section 8 | 129.52 | 1.83 | 1.67 | 1.03 | 25.25 |
| 181.00 | Appurtenance(s) | 1571.2 | 1.85 | 1.77 | 1.06 | 318.55 |
| 182.00 | | 71.25 | 1.87 | 1.87 | 1.10 | 15.01 |
| 183.00 | | 71.25 | 1.89 | 1.98 | 1.14 | 15.59 |
| Totals: | | 46,158.1 | | | | 1,764.1 |
| | | | | | | Total Wind: 38,581.8 |

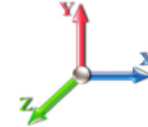
Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



| | | |
|----------------------------------|--------------------------------------|---------------------------------------|
| Load Case: 1.2D + 1.0E | | Iterations 26 |
| Gust Response Factor 1.10 | Sds 0.17 | Ss 0.16 |
| Dead Load Factor 1.20 | Seismic Load Factor 1.00 | S1 0.06 |
| Wind Load Factor 0.00 | Structure Frequency (f1) 0.28 | SA 0.03 |
| | | Seismic Importance Factor 1.00 |



| 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 Sway (deg) | Rotation Twist (deg) | Stress Ratio |
|---------------|------------------|------------------|---------------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|---------------------|----------------------|--------------|
| 0.00 | -62.67 | -1.97 | 0.00 | -269.21 | 0.00 | 269.21 | 5190.16 | 2595.08 | 13702.9 | 6861.66 | 0.00 | 0.00 | 0.00 | 0.051 |
| 2.00 | -61.94 | -1.97 | 0.00 | -265.28 | 0.00 | 265.28 | 5174.50 | 2587.25 | 13560.7 | 6790.43 | 0.00 | 0.00 | 0.00 | 0.051 |
| 4.00 | -61.21 | -1.96 | 0.00 | -261.35 | 0.00 | 261.35 | 5158.51 | 2579.25 | 13418.2 | 6719.08 | 0.00 | -0.01 | 0.00 | 0.051 |
| 6.00 | -60.49 | -1.96 | 0.00 | -257.42 | 0.00 | 257.42 | 5142.18 | 2571.09 | 13275.4 | 6647.61 | 0.01 | -0.01 | 0.00 | 0.050 |
| 8.00 | -59.78 | -1.95 | 0.00 | -253.51 | 0.00 | 253.51 | 5125.52 | 2562.76 | 13132.5 | 6576.03 | 0.01 | -0.02 | 0.00 | 0.050 |
| 10.00 | -59.07 | -1.94 | 0.00 | -249.61 | 0.00 | 249.61 | 5108.53 | 2554.27 | 12989.4 | 6504.36 | 0.02 | -0.02 | 0.00 | 0.050 |
| 12.00 | -58.36 | -1.93 | 0.00 | -245.73 | 0.00 | 245.73 | 5091.21 | 2545.61 | 12846.0 | 6432.60 | 0.03 | -0.02 | 0.00 | 0.050 |
| 14.00 | -57.66 | -1.92 | 0.00 | -241.87 | 0.00 | 241.87 | 5073.56 | 2536.78 | 12702.6 | 6360.75 | 0.04 | -0.03 | 0.00 | 0.049 |
| 16.00 | -56.96 | -1.91 | 0.00 | -238.03 | 0.00 | 238.03 | 5055.57 | 2527.79 | 12559.0 | 6288.85 | 0.05 | -0.03 | 0.00 | 0.049 |
| 18.00 | -56.27 | -1.90 | 0.00 | -234.20 | 0.00 | 234.20 | 5037.25 | 2518.63 | 12415.3 | 6216.88 | 0.07 | -0.04 | 0.00 | 0.049 |
| 20.00 | -55.59 | -1.89 | 0.00 | -230.41 | 0.00 | 230.41 | 5018.60 | 2509.30 | 12271.4 | 6144.86 | 0.08 | -0.04 | 0.00 | 0.049 |
| 22.00 | -54.90 | -1.88 | 0.00 | -226.63 | 0.00 | 226.63 | 4999.62 | 2499.81 | 12127.5 | 6072.81 | 0.10 | -0.04 | 0.00 | 0.048 |
| 24.00 | -54.22 | -1.86 | 0.00 | -222.88 | 0.00 | 222.88 | 4980.31 | 2490.15 | 11983.6 | 6000.72 | 0.12 | -0.05 | 0.00 | 0.048 |
| 26.00 | -53.55 | -1.85 | 0.00 | -219.15 | 0.00 | 219.15 | 4960.66 | 2480.33 | 11839.6 | 5928.62 | 0.14 | -0.05 | 0.00 | 0.048 |
| 28.00 | -52.88 | -1.84 | 0.00 | -215.45 | 0.00 | 215.45 | 4940.68 | 2470.34 | 11695.6 | 5856.50 | 0.16 | -0.06 | 0.00 | 0.047 |
| 30.00 | -52.22 | -1.83 | 0.00 | -211.77 | 0.00 | 211.77 | 4920.37 | 2460.19 | 11551.6 | 5784.39 | 0.19 | -0.06 | 0.00 | 0.047 |
| 32.00 | -51.56 | -1.82 | 0.00 | -208.11 | 0.00 | 208.11 | 4899.73 | 2449.87 | 11407.6 | 5712.28 | 0.21 | -0.06 | 0.00 | 0.047 |
| 34.00 | -50.90 | -1.80 | 0.00 | -204.48 | 0.00 | 204.48 | 4878.76 | 2439.38 | 11263.6 | 5640.19 | 0.24 | -0.07 | 0.00 | 0.047 |
| 36.00 | -50.25 | -1.79 | 0.00 | -200.87 | 0.00 | 200.87 | 4857.45 | 2428.72 | 11119.7 | 5568.14 | 0.27 | -0.07 | 0.00 | 0.046 |
| 38.00 | -49.61 | -1.78 | 0.00 | -197.29 | 0.00 | 197.29 | 4835.81 | 2417.91 | 10975.9 | 5496.12 | 0.30 | -0.08 | 0.00 | 0.046 |
| 40.00 | -48.96 | -1.76 | 0.00 | -193.74 | 0.00 | 193.74 | 4813.84 | 2406.92 | 10832.2 | 5424.15 | 0.34 | -0.08 | 0.00 | 0.046 |
| 41.00 | -48.64 | -1.76 | 0.00 | -191.97 | 0.00 | 191.97 | 4802.73 | 2401.36 | 10760.3 | 5388.18 | 0.35 | -0.08 | 0.00 | 0.046 |
| 42.00 | -48.06 | -1.74 | 0.00 | -190.21 | 0.00 | 190.21 | 4791.54 | 2395.77 | 10688.5 | 5352.24 | 0.37 | -0.09 | 0.00 | 0.046 |
| 44.00 | -46.89 | -1.72 | 0.00 | -186.73 | 0.00 | 186.73 | 4768.90 | 2384.45 | 10545.1 | 5280.39 | 0.41 | -0.09 | 0.00 | 0.045 |
| 46.00 | -45.74 | -1.69 | 0.00 | -183.29 | 0.00 | 183.29 | 4745.94 | 2372.97 | 10401.7 | 5208.63 | 0.45 | -0.10 | 0.00 | 0.045 |
| 48.00 | -44.59 | -1.66 | 0.00 | -179.92 | 0.00 | 179.92 | 4759.60 | 2379.80 | 10486.7 | 5251.18 | 0.49 | -0.10 | 0.00 | 0.044 |
| 50.00 | -43.97 | -1.64 | 0.00 | -176.61 | 0.00 | 176.61 | 4736.50 | 2368.25 | 10343.5 | 5179.45 | 0.53 | -0.10 | 0.00 | 0.043 |
| 51.00 | -43.66 | -1.64 | 0.00 | -174.97 | 0.00 | 174.97 | 4724.82 | 2362.41 | 10271.9 | 5143.62 | 0.56 | -0.11 | 0.00 | 0.043 |
| 51.00 | -43.66 | -1.64 | 0.00 | -174.97 | 0.00 | 174.97 | 4064.30 | 2032.15 | 8835.99 | 4424.56 | 0.56 | -0.11 | 0.00 | 0.050 |
| 52.00 | -43.35 | -1.63 | 0.00 | -173.33 | 0.00 | 173.33 | 4053.20 | 2026.60 | 8772.35 | 4392.70 | 0.58 | -0.11 | 0.00 | 0.050 |
| 54.00 | -42.73 | -1.62 | 0.00 | -170.07 | 0.00 | 170.07 | 4030.83 | 2015.41 | 8645.34 | 4329.09 | 0.62 | -0.11 | 0.00 | 0.050 |
| 56.00 | -42.12 | -1.60 | 0.00 | -166.83 | 0.00 | 166.83 | 4008.20 | 2004.10 | 8518.66 | 4265.66 | 0.67 | -0.12 | 0.00 | 0.050 |
| 58.00 | -41.51 | -1.59 | 0.00 | -163.63 | 0.00 | 163.63 | 3985.33 | 1992.66 | 8392.33 | 4202.40 | 0.72 | -0.12 | 0.00 | 0.049 |
| 60.00 | -40.91 | -1.58 | 0.00 | -160.45 | 0.00 | 160.45 | 3962.20 | 1981.10 | 8266.38 | 4139.33 | 0.78 | -0.13 | 0.00 | 0.049 |
| 62.00 | -40.31 | -1.56 | 0.00 | -157.29 | 0.00 | 157.29 | 3938.82 | 1969.41 | 8140.81 | 4076.46 | 0.83 | -0.13 | 0.00 | 0.049 |
| 64.00 | -39.71 | -1.55 | 0.00 | -154.16 | 0.00 | 154.16 | 3915.19 | 1957.60 | 8015.64 | 4013.78 | 0.89 | -0.14 | 0.00 | 0.049 |
| 66.00 | -39.12 | -1.54 | 0.00 | -151.06 | 0.00 | 151.06 | 3891.31 | 1945.66 | 7890.88 | 3951.30 | 0.94 | -0.14 | 0.00 | 0.048 |
| 66.17 | -39.07 | -1.54 | 0.00 | -150.80 | 0.00 | 150.80 | 3889.27 | 1944.64 | 7880.29 | 3946.00 | 0.95 | -0.14 | 0.00 | 0.036 |
| 68.00 | -38.54 | -1.53 | 0.00 | -147.99 | 0.00 | 147.99 | 3867.19 | 1933.59 | 7766.55 | 3889.05 | 1.00 | -0.14 | 0.00 | 0.035 |
| 70.00 | -37.96 | -1.51 | 0.00 | -144.94 | 0.00 | 144.94 | 3842.81 | 1921.40 | 7642.66 | 3827.01 | 1.07 | -0.15 | 0.00 | 0.035 |
| 71.00 | -37.67 | -1.51 | 0.00 | -143.43 | 0.00 | 143.43 | 3830.52 | 1915.26 | 7580.89 | 3796.08 | 1.10 | -0.15 | 0.00 | 0.035 |
| 71.00 | -37.67 | -1.51 | 0.00 | -143.43 | 0.00 | 143.43 | 3467.89 | 1733.95 | 6863.13 | 3436.66 | 1.10 | -0.15 | 0.00 | 0.039 |
| 72.00 | -37.38 | -1.50 | 0.00 | -141.92 | 0.00 | 141.92 | 3456.29 | 1728.14 | 6806.46 | 3408.29 | 1.13 | -0.15 | 0.00 | 0.038 |
| 74.00 | -36.81 | -1.49 | 0.00 | -138.92 | 0.00 | 138.92 | 3432.92 | 1716.46 | 6693.50 | 3351.73 | 1.19 | -0.16 | 0.00 | 0.038 |
| 76.00 | -36.25 | -1.48 | 0.00 | -135.94 | 0.00 | 135.94 | 3409.33 | 1704.67 | 6581.05 | 3295.42 | 1.26 | -0.16 | 0.00 | 0.038 |
| 78.00 | -35.68 | -1.47 | 0.00 | -132.99 | 0.00 | 132.99 | 3385.54 | 1692.77 | 6469.11 | 3239.36 | 1.33 | -0.16 | 0.00 | 0.037 |
| 80.00 | -35.13 | -1.46 | 0.00 | -130.05 | 0.00 | 130.05 | 3361.54 | 1680.77 | 6357.71 | 3183.58 | 1.40 | -0.17 | 0.00 | 0.037 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 69

| | | | | | | | | | | | | | |
|--------|--------|-------|------|---------|------|--------|---------|---------|---------|---------|------|-------|-------|
| 81.00 | -34.85 | -1.45 | 0.00 | -128.59 | 0.00 | 128.59 | 3349.46 | 1674.73 | 6302.21 | 3155.79 | 1.43 | -0.17 | 0.037 |
| 81.00 | -34.85 | -1.45 | 0.00 | -128.59 | 0.00 | 128.59 | 2964.88 | 1482.44 | 5593.85 | 2801.08 | 1.43 | -0.17 | 0.035 |
| 82.00 | -34.61 | -1.45 | 0.00 | -127.14 | 0.00 | 127.14 | 2956.03 | 1478.01 | 5548.33 | 2778.29 | 1.47 | -0.17 | 0.039 |
| 84.00 | -34.13 | -1.45 | 0.00 | -124.23 | 0.00 | 124.23 | 2938.12 | 1469.06 | 5457.44 | 2732.78 | 1.54 | -0.17 | 0.039 |
| 85.00 | -33.90 | -1.44 | 0.00 | -122.79 | 0.00 | 122.79 | 2929.07 | 1464.54 | 5412.08 | 2710.06 | 1.57 | -0.18 | 0.039 |
| 86.00 | -33.48 | -1.44 | 0.00 | -121.34 | 0.00 | 121.34 | 2919.96 | 1459.98 | 5366.77 | 2687.37 | 1.61 | -0.18 | 0.038 |
| 88.00 | -32.65 | -1.43 | 0.00 | -118.46 | 0.00 | 118.46 | 2901.53 | 1450.76 | 5276.32 | 2642.08 | 1.69 | -0.18 | 0.038 |
| 90.00 | -31.82 | -1.43 | 0.00 | -115.59 | 0.00 | 115.59 | 2882.84 | 1441.42 | 5186.12 | 2596.92 | 1.76 | -0.19 | 0.037 |
| 91.00 | -31.41 | -1.43 | 0.00 | -114.16 | 0.00 | 114.16 | 2888.35 | 1449.17 | 5260.87 | 2634.34 | 1.80 | -0.19 | 0.037 |
| 92.00 | -31.18 | -1.43 | 0.00 | -112.74 | 0.00 | 112.74 | 2889.01 | 1444.51 | 5215.76 | 2611.76 | 1.84 | -0.19 | 0.036 |
| 93.83 | -30.76 | -1.43 | 0.00 | -110.12 | 0.00 | 110.12 | 2871.76 | 1435.88 | 5133.38 | 2570.50 | 1.92 | -0.19 | 0.036 |
| 93.83 | -30.76 | -1.43 | 0.00 | -110.12 | 0.00 | 110.12 | 2871.76 | 1435.88 | 5133.38 | 2570.50 | 1.92 | -0.19 | 0.036 |
| 94.00 | -30.72 | -1.43 | 0.00 | -109.88 | 0.00 | 109.88 | 2870.15 | 1435.07 | 5125.73 | 2566.68 | 1.92 | -0.19 | 0.054 |
| 96.00 | -30.26 | -1.43 | 0.00 | -107.02 | 0.00 | 107.02 | 2851.02 | 1425.51 | 5035.98 | 2521.73 | 2.00 | -0.20 | 0.053 |
| 98.00 | -29.81 | -1.43 | 0.00 | -104.16 | 0.00 | 104.16 | 2831.62 | 1415.81 | 4946.52 | 2476.93 | 2.09 | -0.21 | 0.053 |
| 100.00 | -29.36 | -1.43 | 0.00 | -101.29 | 0.00 | 101.29 | 2811.97 | 1405.98 | 4857.35 | 2432.29 | 2.18 | -0.21 | 0.052 |
| 102.00 | -28.91 | -1.44 | 0.00 | -98.43 | 0.00 | 98.43 | 2792.05 | 1396.03 | 4768.51 | 2387.80 | 2.27 | -0.22 | 0.052 |
| 104.00 | -28.47 | -1.44 | 0.00 | -95.56 | 0.00 | 95.56 | 2771.87 | 1385.94 | 4680.00 | 2343.48 | 2.36 | -0.22 | 0.051 |
| 106.00 | -28.03 | -1.44 | 0.00 | -92.68 | 0.00 | 92.68 | 2751.43 | 1375.71 | 4591.84 | 2299.33 | 2.46 | -0.23 | 0.050 |
| 108.00 | -27.60 | -1.44 | 0.00 | -89.81 | 0.00 | 89.81 | 2730.72 | 1365.36 | 4504.04 | 2255.37 | 2.55 | -0.24 | 0.050 |
| 110.00 | -27.17 | -1.44 | 0.00 | -86.93 | 0.00 | 86.93 | 2709.75 | 1354.88 | 4416.62 | 2211.59 | 2.65 | -0.24 | 0.049 |
| 111.17 | -26.92 | -1.44 | 0.00 | -85.24 | 0.00 | 85.24 | 2697.36 | 1348.68 | 4365.66 | 2186.08 | 2.71 | -0.25 | 0.039 |
| 112.00 | -26.74 | -1.44 | 0.00 | -84.05 | 0.00 | 84.05 | 2688.52 | 1344.26 | 4329.60 | 2168.02 | 2.76 | -0.25 | 0.039 |
| 114.00 | -26.32 | -1.44 | 0.00 | -81.16 | 0.00 | 81.16 | 2667.03 | 1333.51 | 4242.98 | 2124.64 | 2.86 | -0.25 | 0.038 |
| 115.00 | -26.11 | -1.44 | 0.00 | -79.72 | 0.00 | 79.72 | 2656.18 | 1328.09 | 4199.83 | 2103.04 | 2.92 | -0.26 | 0.037 |
| 115.00 | -26.11 | -1.44 | 0.00 | -79.72 | 0.00 | 79.72 | 1951.15 | 975.57 | 3095.05 | 1549.82 | 2.92 | -0.26 | 0.041 |
| 116.00 | -25.93 | -1.44 | 0.00 | -78.28 | 0.00 | 78.28 | 1944.57 | 972.29 | 3065.67 | 1535.11 | 2.97 | -0.26 | 0.048 |
| 118.00 | -25.57 | -1.44 | 0.00 | -75.40 | 0.00 | 75.40 | 1931.24 | 965.62 | 3006.98 | 1505.73 | 3.08 | -0.26 | 0.047 |
| 120.00 | -25.22 | -1.44 | 0.00 | -72.51 | 0.00 | 72.51 | 1917.63 | 958.82 | 2948.42 | 1476.40 | 3.19 | -0.27 | 0.046 |
| 122.00 | -24.87 | -1.45 | 0.00 | -69.62 | 0.00 | 69.62 | 1903.77 | 951.88 | 2889.98 | 1447.14 | 3.31 | -0.28 | 0.045 |
| 123.83 | -24.56 | -1.44 | 0.00 | -66.98 | 0.00 | 66.98 | 1890.85 | 945.43 | 2836.64 | 1420.43 | 3.41 | -0.28 | 0.044 |
| 123.83 | -24.56 | -1.44 | 0.00 | -66.98 | 0.00 | 66.98 | 1890.85 | 945.43 | 2836.64 | 1420.43 | 3.41 | -0.28 | 0.044 |
| 124.00 | -24.53 | -1.45 | 0.00 | -66.73 | 0.00 | 66.73 | 1889.64 | 944.82 | 2831.69 | 1417.95 | 3.42 | -0.28 | 0.060 |
| 126.00 | -24.19 | -1.45 | 0.00 | -63.84 | 0.00 | 63.84 | 1875.25 | 937.63 | 2773.56 | 1388.84 | 3.54 | -0.29 | 0.059 |
| 128.00 | -23.85 | -1.45 | 0.00 | -60.94 | 0.00 | 60.94 | 1860.60 | 930.30 | 2715.62 | 1359.83 | 3.66 | -0.30 | 0.058 |
| 130.00 | -23.51 | -1.45 | 0.00 | -58.04 | 0.00 | 58.04 | 1845.69 | 922.84 | 2657.86 | 1330.91 | 3.79 | -0.30 | 0.056 |
| 132.00 | -22.95 | -1.45 | 0.00 | -55.14 | 0.00 | 55.14 | 1830.51 | 915.25 | 2600.31 | 1302.09 | 3.92 | -0.31 | 0.055 |
| 134.00 | -22.39 | -1.45 | 0.00 | -52.24 | 0.00 | 52.24 | 1815.07 | 907.53 | 2542.99 | 1273.39 | 4.05 | -0.32 | 0.053 |
| 135.00 | -22.12 | -1.45 | 0.00 | -50.79 | 0.00 | 50.79 | 1823.79 | 911.89 | 2575.21 | 1289.52 | 4.12 | -0.32 | 0.052 |
| 136.00 | -21.95 | -1.45 | 0.00 | -49.34 | 0.00 | 49.34 | 1816.04 | 908.02 | 2546.57 | 1275.18 | 4.19 | -0.33 | 0.051 |
| 138.00 | -21.63 | -1.45 | 0.00 | -46.44 | 0.00 | 46.44 | 1800.35 | 900.18 | 2489.47 | 1246.58 | 4.32 | -0.33 | 0.049 |
| 140.00 | -21.30 | -1.45 | 0.00 | -43.54 | 0.00 | 43.54 | 1784.41 | 892.20 | 2432.62 | 1218.12 | 4.46 | -0.34 | 0.048 |
| 142.00 | -20.98 | -1.45 | 0.00 | -40.63 | 0.00 | 40.63 | 1768.19 | 884.10 | 2376.04 | 1189.79 | 4.61 | -0.35 | 0.046 |
| 143.00 | -17.35 | -1.43 | 0.00 | -39.18 | 0.00 | 39.18 | 1759.99 | 879.99 | 2347.86 | 1175.68 | 4.68 | -0.35 | 0.043 |
| 144.00 | -17.21 | -1.43 | 0.00 | -37.75 | 0.00 | 37.75 | 1751.72 | 875.86 | 2319.75 | 1161.60 | 4.75 | -0.35 | 0.042 |
| 146.00 | -16.93 | -1.43 | 0.00 | -34.88 | 0.00 | 34.88 | 1734.98 | 867.49 | 2263.76 | 1133.56 | 4.90 | -0.36 | 0.041 |
| 148.00 | -16.65 | -1.43 | 0.00 | -32.02 | 0.00 | 32.02 | 1717.98 | 858.99 | 2208.08 | 1105.68 | 5.06 | -0.36 | 0.039 |
| 150.00 | -16.37 | -1.42 | 0.00 | -29.17 | 0.00 | 29.17 | 1700.72 | 850.36 | 2152.74 | 1077.97 | 5.21 | -0.37 | 0.037 |
| 152.00 | -16.10 | -1.42 | 0.00 | -26.32 | 0.00 | 26.32 | 1683.20 | 841.60 | 2097.74 | 1050.43 | 5.37 | -0.38 | 0.035 |
| 153.00 | -12.12 | -1.28 | 0.00 | -24.90 | 0.00 | 24.90 | 1674.33 | 837.17 | 2070.37 | 1036.72 | 5.45 | -0.38 | 0.031 |
| 154.00 | -12.00 | -1.28 | 0.00 | -23.62 | 0.00 | 23.62 | 1665.41 | 832.70 | 2043.10 | 1023.07 | 5.52 | -0.38 | 0.030 |
| 156.00 | -11.76 | -1.27 | 0.00 | -21.06 | 0.00 | 21.06 | 1647.36 | 823.68 | 1988.83 | 995.90 | 5.69 | -0.39 | 0.028 |
| 158.00 | -9.73 | -1.16 | 0.00 | -18.52 | 0.00 | 18.52 | 1629.04 | 814.52 | 1934.96 | 968.92 | 5.85 | -0.39 | 0.025 |
| 160.00 | -9.50 | -1.15 | 0.00 | -16.20 | 0.00 | 16.20 | 1610.47 | 805.23 | 1881.50 | 942.15 | 6.01 | -0.39 | 0.023 |
| 162.00 | -9.27 | -1.14 | 0.00 | -13.90 | 0.00 | 13.90 | 1591.63 | 795.82 | 1828.46 | 915.59 | 6.18 | -0.40 | 0.021 |
| 163.00 | -7.10 | -0.98 | 0.00 | -12.76 | 0.00 | 12.76 | 1582.11 | 791.06 | 1802.10 | 902.39 | 6.26 | -0.40 | 0.019 |
| 164.00 | -7.00 | -0.97 | 0.00 | -11.79 | 0.00 | 11.79 | 1572.53 | 786.27 | 1775.86 | 889.25 | 6.35 | -0.40 | 0.018 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 70

| | | | | | | | | | | | | | |
|--------|-------|-------|------|-------|------|------|---------|--------|---------|--------|------|-------|-------|
| 166.00 | -6.78 | -0.95 | 0.00 | -9.85 | 0.00 | 9.85 | 1553.17 | 776.58 | 1723.71 | 863.13 | 6.51 | -0.40 | 0.016 |
| 168.00 | -6.57 | -0.94 | 0.00 | -7.94 | 0.00 | 7.94 | 1533.54 | 766.77 | 1672.03 | 837.26 | 6.68 | -0.41 | 0.014 |
| 170.00 | -6.36 | -0.92 | 0.00 | -6.07 | 0.00 | 6.07 | 1513.65 | 756.83 | 1620.83 | 811.62 | 6.86 | -0.41 | 0.012 |
| 172.00 | -6.15 | -0.90 | 0.00 | -4.24 | 0.00 | 4.24 | 1493.50 | 746.75 | 1570.13 | 786.23 | 7.03 | -0.41 | 0.010 |
| 173.00 | -2.63 | -0.45 | 0.00 | -3.35 | 0.00 | 3.35 | 1483.33 | 741.66 | 1544.98 | 773.64 | 7.11 | -0.41 | 0.006 |
| 174.00 | -2.54 | -0.44 | 0.00 | -2.90 | 0.00 | 2.90 | 1473.09 | 736.54 | 1519.95 | 761.10 | 7.20 | -0.41 | 0.006 |
| 176.00 | -2.38 | -0.41 | 0.00 | -2.02 | 0.00 | 2.02 | 1452.41 | 726.20 | 1470.30 | 736.24 | 7.37 | -0.41 | 0.004 |
| 178.00 | -2.22 | -0.39 | 0.00 | -1.19 | 0.00 | 1.19 | 1427.85 | 713.93 | 1417.60 | 709.85 | 7.54 | -0.41 | 0.003 |
| 180.00 | -2.06 | -0.36 | 0.00 | -0.41 | 0.00 | 0.41 | 1400.09 | 700.05 | 1362.74 | 682.38 | 7.72 | -0.41 | 0.002 |
| 180.00 | -2.06 | -0.36 | 0.00 | -0.41 | 0.00 | 0.41 | 678.42 | 339.21 | 662.23 | 396.30 | 7.72 | -0.41 | 0.004 |
| 181.00 | -0.17 | -0.03 | 0.00 | -0.05 | 0.00 | 0.05 | 678.42 | 339.21 | 662.23 | 396.30 | 7.80 | -0.41 | 0.000 |
| 182.00 | -0.09 | -0.02 | 0.00 | -0.02 | 0.00 | 0.02 | 678.42 | 339.21 | 662.23 | 396.30 | 7.89 | -0.41 | 0.000 |
| 183.00 | 0.00 | -0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 678.42 | 339.21 | 662.23 | 396.30 | 7.98 | -0.41 | 0.000 |

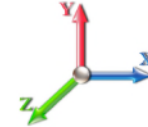
Seismic Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 71

| | | | | |
|-------------------------------|------|---------------------------------|------|---------------------------------------|
| Load Case: 0.9D + 1.0E | | | | Iterations 26 |
| Gust Response Factor | 1.10 | Sds | 0.17 | Ss 0.16 |
| Dead Load Factor | 0.90 | Seismic Load Factor | 1.00 | S1 0.06 |
| Wind Load Factor | 0.00 | Structure Frequency (f1) | 0.28 | SA 0.03 |
| | | | | Seismic Importance Factor 1.00 |



| Top Elev (ft) | Description | Wz (lb) | a | b | c | Lateral Fs (lb) | R: 1.50 |
|---------------|-----------------|---------|------|------|------|-----------------|---------|
| 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2.00 | | 517.51 | 0.00 | 0.01 | 0.01 | 4.39 | |
| 4.00 | | 513.69 | 0.00 | 0.02 | 0.01 | 7.39 | |
| 6.00 | | 509.88 | 0.00 | 0.03 | 0.02 | 9.55 | |
| 8.00 | | 506.07 | 0.00 | 0.04 | 0.02 | 11.15 | |
| 10.00 | | 502.25 | 0.01 | 0.05 | 0.03 | 12.34 | |
| 12.00 | | 498.44 | 0.01 | 0.05 | 0.03 | 13.23 | |
| 14.00 | | 494.62 | 0.01 | 0.06 | 0.03 | 13.90 | |
| 16.00 | | 490.81 | 0.01 | 0.06 | 0.04 | 14.39 | |
| 18.00 | | 487.00 | 0.02 | 0.06 | 0.04 | 14.76 | |
| 20.00 | | 483.18 | 0.02 | 0.07 | 0.04 | 15.01 | |
| 22.00 | | 479.37 | 0.03 | 0.07 | 0.04 | 15.19 | |
| 24.00 | | 475.56 | 0.03 | 0.07 | 0.04 | 15.31 | |
| 26.00 | | 471.74 | 0.04 | 0.07 | 0.04 | 15.39 | |
| 28.00 | | 467.93 | 0.04 | 0.07 | 0.04 | 15.43 | |
| 30.00 | | 464.11 | 0.05 | 0.07 | 0.04 | 15.46 | |
| 32.00 | | 460.30 | 0.06 | 0.07 | 0.04 | 15.46 | |
| 34.00 | | 456.49 | 0.07 | 0.07 | 0.04 | 15.46 | |
| 36.00 | | 452.67 | 0.07 | 0.07 | 0.04 | 15.45 | |
| 38.00 | | 448.86 | 0.08 | 0.07 | 0.04 | 15.44 | |
| 40.00 | | 445.05 | 0.09 | 0.07 | 0.04 | 15.43 | |
| 41.00 | Bot - Section 2 | 221.09 | 0.09 | 0.07 | 0.04 | 7.70 | |
| 42.00 | | 443.32 | 0.10 | 0.07 | 0.04 | 15.50 | |
| 44.00 | | 880.91 | 0.11 | 0.07 | 0.04 | 31.04 | |
| 46.00 | | 873.28 | 0.12 | 0.07 | 0.03 | 31.02 | |
| 48.00 | Top - Section 1 | 865.66 | 0.13 | 0.07 | 0.03 | 30.99 | |
| 50.00 | | 432.05 | 0.14 | 0.07 | 0.03 | 15.58 | |
| 51.00 | Top - Section 2 | 214.60 | 0.15 | 0.07 | 0.03 | 7.77 | |
| 52.00 | | 213.64 | 0.15 | 0.07 | 0.03 | 7.76 | |
| 54.00 | | 424.43 | 0.16 | 0.07 | 0.03 | 15.49 | |
| 56.00 | | 420.61 | 0.18 | 0.07 | 0.03 | 15.42 | |
| 58.00 | | 416.80 | 0.19 | 0.06 | 0.02 | 15.31 | |
| 60.00 | | 412.98 | 0.20 | 0.06 | 0.02 | 15.16 | |
| 62.00 | | 409.17 | 0.22 | 0.06 | 0.02 | 14.97 | |
| 64.00 | | 405.36 | 0.23 | 0.06 | 0.02 | 14.72 | |
| 66.00 | | 401.54 | 0.25 | 0.06 | 0.02 | 14.40 | |
| 66.17 | RB1 | 33.96 | 0.25 | 0.06 | 0.02 | 1.22 | |
| 68.00 | | 363.77 | 0.26 | 0.05 | 0.02 | 12.82 | |
| 70.00 | | 393.92 | 0.28 | 0.05 | 0.01 | 13.53 | |
| 71.00 | Top - Section 3 | 195.53 | 0.28 | 0.05 | 0.01 | 6.61 | |
| 72.00 | | 194.57 | 0.29 | 0.05 | 0.01 | 6.46 | |
| 74.00 | | 386.28 | 0.31 | 0.04 | 0.01 | 12.26 | |
| 76.00 | | 382.47 | 0.33 | 0.04 | 0.01 | 11.46 | |
| 78.00 | | 378.66 | 0.34 | 0.03 | 0.01 | 10.52 | |
| 80.00 | | 374.84 | 0.36 | 0.03 | 0.01 | 9.46 | |
| 81.00 | Top - Section 4 | 185.99 | 0.37 | 0.03 | 0.01 | 4.43 | |

Seismic Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 72

| Elev | Section | Topog | F1 | F2 | F3 | F4 |
|--------|-----------------|--------|------|-------|------|--------|
| 82.00 | | 154.41 | 0.38 | 0.02 | 0.01 | 3.44 |
| 84.00 | | 306.44 | 0.40 | 0.02 | 0.01 | 5.79 |
| 85.00 | Bot - Section 6 | 152.03 | 0.41 | 0.02 | 0.01 | 2.59 |
| 86.00 | | 304.57 | 0.42 | 0.01 | 0.01 | 4.60 |
| 88.00 | | 604.38 | 0.44 | 0.01 | 0.01 | 6.62 |
| 90.00 | | 598.02 | 0.46 | 0.00 | 0.01 | 3.89 |
| 91.00 | Top - Section 5 | 296.63 | 0.47 | 0.00 | 0.01 | 1.24 |
| 92.00 | | 148.58 | 0.48 | -0.01 | 0.01 | 0.27 |
| 93.83 | RT1 | 269.84 | 0.50 | -0.01 | 0.01 | -0.71 |
| 94.00 | | 24.93 | 0.50 | -0.02 | 0.01 | -0.08 |
| 96.00 | | 291.59 | 0.52 | -0.02 | 0.01 | -2.31 |
| 98.00 | | 288.41 | 0.54 | -0.03 | 0.01 | -3.67 |
| 100.00 | | 285.23 | 0.56 | -0.04 | 0.01 | -4.95 |
| 102.00 | | 282.06 | 0.59 | -0.05 | 0.01 | -6.12 |
| 104.00 | | 278.88 | 0.61 | -0.06 | 0.02 | -7.16 |
| 106.00 | | 483.88 | 0.63 | -0.07 | 0.02 | -14.14 |
| 108.00 | | 478.16 | 0.66 | -0.07 | 0.02 | -15.44 |
| 110.00 | | 472.44 | 0.68 | -0.08 | 0.03 | -16.47 |
| 111.17 | RB2 | 273.72 | 0.70 | -0.09 | 0.03 | -9.88 |
| 112.00 | | 192.99 | 0.71 | -0.09 | 0.03 | -7.12 |
| 114.00 | | 461.00 | 0.73 | -0.10 | 0.04 | -17.69 |
| 115.00 | Top - Section 6 | 130.30 | 0.75 | -0.10 | 0.04 | -5.07 |
| 116.00 | | 103.77 | 0.76 | -0.10 | 0.04 | -4.08 |
| 118.00 | | 205.64 | 0.79 | -0.11 | 0.05 | -8.16 |
| 120.00 | | 203.10 | 0.81 | -0.11 | 0.06 | -8.03 |
| 122.00 | | 200.55 | 0.84 | -0.12 | 0.07 | -7.80 |
| 123.83 | RT2 | 181.28 | 0.87 | -0.12 | 0.07 | -6.86 |
| 124.00 | | 16.73 | 0.87 | -0.12 | 0.08 | -0.63 |
| 126.00 | | 195.47 | 0.90 | -0.12 | 0.09 | -7.04 |
| 128.00 | | 192.93 | 0.92 | -0.12 | 0.10 | -6.53 |
| 130.00 | Bot - Section 8 | 190.38 | 0.95 | -0.12 | 0.11 | -5.93 |
| 132.00 | | 378.38 | 0.98 | -0.11 | 0.12 | -10.59 |
| 134.00 | | 373.30 | 1.01 | -0.11 | 0.14 | -9.08 |
| 135.00 | Top - Section 7 | 184.74 | 1.03 | -0.10 | 0.15 | -4.13 |
| 136.00 | | 92.41 | 1.04 | -0.10 | 0.15 | -1.87 |
| 138.00 | | 182.92 | 1.07 | -0.08 | 0.17 | -2.85 |
| 140.00 | | 180.37 | 1.11 | -0.07 | 0.19 | -1.89 |
| 142.00 | | 177.83 | 1.14 | -0.05 | 0.21 | -0.88 |
| 143.00 | Appurtenance(s) | 2977.2 | 1.15 | -0.03 | 0.22 | -5.89 |
| 144.00 | | 87.33 | 1.17 | -0.02 | 0.23 | 0.10 |
| 146.00 | | 172.75 | 1.20 | 0.01 | 0.26 | 1.32 |
| 148.00 | | 170.20 | 1.24 | 0.04 | 0.28 | 2.49 |
| 150.00 | | 167.66 | 1.27 | 0.08 | 0.31 | 3.71 |
| 152.00 | | 165.12 | 1.30 | 0.13 | 0.34 | 4.97 |
| 153.00 | Appurtenance(s) | 3283.2 | 1.32 | 0.15 | 0.36 | 112.47 |
| 154.00 | | 80.97 | 1.34 | 0.18 | 0.37 | 3.12 |
| 156.00 | | 160.03 | 1.37 | 0.24 | 0.40 | 7.60 |
| 158.00 | Appurtenance(s) | 1657.4 | 1.41 | 0.30 | 0.44 | 94.40 |
| 160.00 | | 154.95 | 1.44 | 0.37 | 0.48 | 10.37 |
| 162.00 | | 152.40 | 1.48 | 0.46 | 0.52 | 11.79 |
| 163.00 | Appurtenance(s) | 1787.0 | 1.50 | 0.50 | 0.54 | 147.95 |
| 164.00 | | 74.61 | 1.52 | 0.55 | 0.56 | 6.59 |
| 166.00 | | 147.32 | 1.56 | 0.65 | 0.61 | 14.71 |
| 168.00 | | 144.78 | 1.59 | 0.76 | 0.66 | 16.19 |
| 170.00 | | 142.23 | 1.63 | 0.88 | 0.71 | 17.69 |
| 172.00 | | 139.69 | 1.67 | 1.01 | 0.77 | 19.19 |
| 173.00 | Appurtenance(s) | 2925.6 | 1.69 | 1.08 | 0.80 | 421.61 |

Seismic Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 73

| | | | | | | |
|----------------|-----------------|-----------------|------|------|------|-----------------------------|
| 174.00 | | 68.26 | 1.71 | 1.16 | 0.83 | 10.30 |
| 176.00 | | 134.61 | 1.75 | 1.31 | 0.89 | 22.22 |
| 178.00 | | 132.06 | 1.79 | 1.49 | 0.96 | 23.74 |
| 180.00 | Top - Section 8 | 129.52 | 1.83 | 1.67 | 1.03 | 25.25 |
| 181.00 | Appurtenance(s) | 1571.2 | 1.85 | 1.77 | 1.06 | 318.55 |
| 182.00 | | 71.25 | 1.87 | 1.87 | 1.10 | 15.01 |
| 183.00 | | 71.25 | 1.89 | 1.98 | 1.14 | 15.59 |
| Totals: | | 46,158.1 | | | | 1,764.1 |
| | | | | | | Total Wind: 38,581.8 |

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

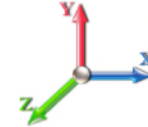
Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 74

| | | |
|----------------------------------|---------------------------------------|----------------------|
| Load Case: 0.9D + 1.0E | | Iterations 26 |
| Gust Response Factor 1.10 | Sds 0.17 | Ss 0.16 |
| Dead Load Factor 0.90 | Seismic Load Factor 1.00 | S1 0.06 |
| Wind Load Factor 0.00 | Structure Frequency (f1) 0.28 | SA 0.03 |
| | Seismic Importance Factor 1.00 | |



| 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 Sway (deg) | Rotation Twist (deg) | Stress Ratio |
|---------------|------------------|------------------|---------------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|---------------------|----------------------|--------------|
| 0.00 | -47.00 | -1.97 | 0.00 | -265.36 | 0.00 | 265.36 | 5190.16 | 2595.08 | 13702.9 | 6861.66 | 0.00 | 0.00 | 0.00 | 0.048 |
| 2.00 | -46.45 | -1.96 | 0.00 | -261.43 | 0.00 | 261.43 | 5174.50 | 2587.25 | 13560.7 | 6790.43 | 0.00 | 0.00 | 0.00 | 0.047 |
| 4.00 | -45.91 | -1.96 | 0.00 | -257.50 | 0.00 | 257.50 | 5158.51 | 2579.25 | 13418.2 | 6719.08 | 0.00 | -0.01 | 0.00 | 0.047 |
| 6.00 | -45.37 | -1.95 | 0.00 | -253.59 | 0.00 | 253.59 | 5142.18 | 2571.09 | 13275.4 | 6647.61 | 0.01 | -0.01 | 0.00 | 0.047 |
| 8.00 | -44.83 | -1.94 | 0.00 | -249.68 | 0.00 | 249.68 | 5125.52 | 2562.76 | 13132.5 | 6576.03 | 0.01 | -0.02 | 0.00 | 0.047 |
| 10.00 | -44.30 | -1.94 | 0.00 | -245.79 | 0.00 | 245.79 | 5108.53 | 2554.27 | 12989.4 | 6504.36 | 0.02 | -0.02 | 0.00 | 0.046 |
| 12.00 | -43.77 | -1.92 | 0.00 | -241.92 | 0.00 | 241.92 | 5091.21 | 2545.61 | 12846.0 | 6432.60 | 0.03 | -0.02 | 0.00 | 0.046 |
| 14.00 | -43.25 | -1.91 | 0.00 | -238.07 | 0.00 | 238.07 | 5073.56 | 2536.78 | 12702.6 | 6360.75 | 0.04 | -0.03 | 0.00 | 0.046 |
| 16.00 | -42.72 | -1.90 | 0.00 | -234.24 | 0.00 | 234.24 | 5055.57 | 2527.79 | 12559.0 | 6288.85 | 0.05 | -0.03 | 0.00 | 0.046 |
| 18.00 | -42.20 | -1.89 | 0.00 | -230.44 | 0.00 | 230.44 | 5037.25 | 2518.63 | 12415.3 | 6216.88 | 0.07 | -0.03 | 0.00 | 0.045 |
| 20.00 | -41.69 | -1.88 | 0.00 | -226.66 | 0.00 | 226.66 | 5018.60 | 2509.30 | 12271.4 | 6144.86 | 0.08 | -0.04 | 0.00 | 0.045 |
| 22.00 | -41.18 | -1.86 | 0.00 | -222.90 | 0.00 | 222.90 | 4999.62 | 2499.81 | 12127.5 | 6072.81 | 0.10 | -0.04 | 0.00 | 0.045 |
| 24.00 | -40.67 | -1.85 | 0.00 | -219.17 | 0.00 | 219.17 | 4980.31 | 2490.15 | 11983.6 | 6000.72 | 0.12 | -0.05 | 0.00 | 0.045 |
| 26.00 | -40.16 | -1.84 | 0.00 | -215.47 | 0.00 | 215.47 | 4960.66 | 2480.33 | 11839.6 | 5928.62 | 0.14 | -0.05 | 0.00 | 0.044 |
| 28.00 | -39.66 | -1.83 | 0.00 | -211.79 | 0.00 | 211.79 | 4940.68 | 2470.34 | 11695.6 | 5856.50 | 0.16 | -0.06 | 0.00 | 0.044 |
| 30.00 | -39.16 | -1.81 | 0.00 | -208.14 | 0.00 | 208.14 | 4920.37 | 2460.19 | 11551.6 | 5784.39 | 0.18 | -0.06 | 0.00 | 0.044 |
| 32.00 | -38.67 | -1.80 | 0.00 | -204.51 | 0.00 | 204.51 | 4899.73 | 2449.87 | 11407.6 | 5712.28 | 0.21 | -0.06 | 0.00 | 0.044 |
| 34.00 | -38.18 | -1.79 | 0.00 | -200.91 | 0.00 | 200.91 | 4878.76 | 2439.38 | 11263.6 | 5640.19 | 0.24 | -0.07 | 0.00 | 0.043 |
| 36.00 | -37.69 | -1.77 | 0.00 | -197.34 | 0.00 | 197.34 | 4857.45 | 2428.72 | 11119.7 | 5568.14 | 0.27 | -0.07 | 0.00 | 0.043 |
| 38.00 | -37.20 | -1.76 | 0.00 | -193.79 | 0.00 | 193.79 | 4835.81 | 2417.91 | 10975.9 | 5496.12 | 0.30 | -0.08 | 0.00 | 0.043 |
| 40.00 | -36.72 | -1.75 | 0.00 | -190.27 | 0.00 | 190.27 | 4813.84 | 2406.92 | 10832.2 | 5424.15 | 0.33 | -0.08 | 0.00 | 0.043 |
| 41.00 | -36.48 | -1.74 | 0.00 | -188.53 | 0.00 | 188.53 | 4802.73 | 2401.36 | 10760.3 | 5388.18 | 0.35 | -0.08 | 0.00 | 0.043 |
| 42.00 | -36.04 | -1.73 | 0.00 | -186.79 | 0.00 | 186.79 | 4791.54 | 2395.77 | 10688.5 | 5352.24 | 0.37 | -0.09 | 0.00 | 0.042 |
| 44.00 | -35.17 | -1.70 | 0.00 | -183.34 | 0.00 | 183.34 | 4768.90 | 2384.45 | 10545.1 | 5280.39 | 0.40 | -0.09 | 0.00 | 0.042 |
| 46.00 | -34.30 | -1.67 | 0.00 | -179.95 | 0.00 | 179.95 | 4745.94 | 2372.97 | 10401.7 | 5208.63 | 0.44 | -0.09 | 0.00 | 0.042 |
| 48.00 | -33.44 | -1.64 | 0.00 | -176.61 | 0.00 | 176.61 | 4759.60 | 2379.80 | 10486.7 | 5251.18 | 0.48 | -0.10 | 0.00 | 0.041 |
| 50.00 | -32.97 | -1.62 | 0.00 | -173.34 | 0.00 | 173.34 | 4736.50 | 2368.25 | 10343.5 | 5179.45 | 0.52 | -0.10 | 0.00 | 0.040 |
| 51.00 | -32.74 | -1.61 | 0.00 | -171.72 | 0.00 | 171.72 | 4724.82 | 2362.41 | 10271.9 | 5143.62 | 0.55 | -0.11 | 0.00 | 0.040 |
| 51.00 | -32.74 | -1.61 | 0.00 | -171.72 | 0.00 | 171.72 | 4064.30 | 2032.15 | 8835.99 | 4424.56 | 0.55 | -0.11 | 0.00 | 0.047 |
| 52.00 | -32.51 | -1.61 | 0.00 | -170.10 | 0.00 | 170.10 | 4053.20 | 2026.60 | 8772.35 | 4392.70 | 0.57 | -0.11 | 0.00 | 0.047 |
| 54.00 | -32.05 | -1.59 | 0.00 | -166.89 | 0.00 | 166.89 | 4030.83 | 2015.41 | 8645.34 | 4329.09 | 0.61 | -0.11 | 0.00 | 0.047 |
| 56.00 | -31.59 | -1.58 | 0.00 | -163.70 | 0.00 | 163.70 | 4008.20 | 2004.10 | 8518.66 | 4265.66 | 0.66 | -0.12 | 0.00 | 0.046 |
| 58.00 | -31.13 | -1.57 | 0.00 | -160.54 | 0.00 | 160.54 | 3985.33 | 1992.66 | 8392.33 | 4202.40 | 0.71 | -0.12 | 0.00 | 0.046 |
| 60.00 | -30.68 | -1.55 | 0.00 | -157.40 | 0.00 | 157.40 | 3962.20 | 1981.10 | 8266.38 | 4139.33 | 0.76 | -0.13 | 0.00 | 0.046 |
| 62.00 | -30.23 | -1.54 | 0.00 | -154.30 | 0.00 | 154.30 | 3938.82 | 1969.41 | 8140.81 | 4076.46 | 0.82 | -0.13 | 0.00 | 0.046 |
| 64.00 | -29.78 | -1.53 | 0.00 | -151.22 | 0.00 | 151.22 | 3915.19 | 1957.60 | 8015.64 | 4013.78 | 0.87 | -0.13 | 0.00 | 0.045 |
| 66.00 | -29.34 | -1.51 | 0.00 | -148.17 | 0.00 | 148.17 | 3891.31 | 1945.66 | 7890.88 | 3951.30 | 0.93 | -0.14 | 0.00 | 0.045 |
| 66.17 | -29.30 | -1.51 | 0.00 | -147.91 | 0.00 | 147.91 | 3889.27 | 1944.64 | 7880.29 | 3946.00 | 0.93 | -0.14 | 0.00 | 0.033 |
| 68.00 | -28.90 | -1.50 | 0.00 | -145.14 | 0.00 | 145.14 | 3867.19 | 1933.59 | 7766.55 | 3889.05 | 0.99 | -0.14 | 0.00 | 0.033 |
| 70.00 | -28.47 | -1.49 | 0.00 | -142.14 | 0.00 | 142.14 | 3842.81 | 1921.40 | 7642.66 | 3827.01 | 1.05 | -0.15 | 0.00 | 0.033 |
| 71.00 | -28.25 | -1.48 | 0.00 | -140.66 | 0.00 | 140.66 | 3830.52 | 1915.26 | 7580.89 | 3796.08 | 1.08 | -0.15 | 0.00 | 0.033 |
| 71.00 | -28.25 | -1.48 | 0.00 | -140.66 | 0.00 | 140.66 | 3467.89 | 1733.95 | 6863.13 | 3436.66 | 1.08 | -0.15 | 0.00 | 0.036 |
| 72.00 | -28.04 | -1.47 | 0.00 | -139.18 | 0.00 | 139.18 | 3456.29 | 1728.14 | 6806.46 | 3408.29 | 1.11 | -0.15 | 0.00 | 0.036 |
| 74.00 | -27.61 | -1.46 | 0.00 | -136.23 | 0.00 | 136.23 | 3432.92 | 1716.46 | 6693.50 | 3351.73 | 1.17 | -0.15 | 0.00 | 0.035 |
| 76.00 | -27.18 | -1.45 | 0.00 | -133.30 | 0.00 | 133.30 | 3409.33 | 1704.67 | 6581.05 | 3295.42 | 1.24 | -0.16 | 0.00 | 0.035 |
| 78.00 | -26.76 | -1.44 | 0.00 | -130.40 | 0.00 | 130.40 | 3385.54 | 1692.77 | 6469.11 | 3239.36 | 1.30 | -0.16 | 0.00 | 0.035 |
| 80.00 | -26.34 | -1.43 | 0.00 | -127.52 | 0.00 | 127.52 | 3361.54 | 1680.77 | 6357.71 | 3183.58 | 1.37 | -0.16 | 0.00 | 0.035 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 75

| | | | | | | | | | | | | | |
|--------|--------|-------|------|---------|------|--------|---------|---------|---------|---------|------|-------|-------|
| 81.00 | -26.14 | -1.43 | 0.00 | -126.09 | 0.00 | 126.09 | 3349.46 | 1674.73 | 6302.21 | 3155.79 | 1.41 | -0.16 | 0.034 |
| 81.00 | -26.14 | -1.43 | 0.00 | -126.09 | 0.00 | 126.09 | 2964.88 | 1482.44 | 5593.85 | 2801.08 | 1.41 | -0.16 | 0.032 |
| 82.00 | -25.96 | -1.43 | 0.00 | -124.66 | 0.00 | 124.66 | 2956.03 | 1478.01 | 5548.33 | 2778.29 | 1.44 | -0.17 | 0.037 |
| 84.00 | -25.60 | -1.42 | 0.00 | -121.81 | 0.00 | 121.81 | 2938.12 | 1469.06 | 5457.44 | 2732.78 | 1.51 | -0.17 | 0.036 |
| 85.00 | -25.42 | -1.42 | 0.00 | -120.39 | 0.00 | 120.39 | 2929.07 | 1464.54 | 5412.08 | 2710.06 | 1.55 | -0.17 | 0.036 |
| 86.00 | -25.11 | -1.41 | 0.00 | -118.97 | 0.00 | 118.97 | 2919.96 | 1459.98 | 5366.77 | 2687.37 | 1.58 | -0.17 | 0.036 |
| 88.00 | -24.48 | -1.41 | 0.00 | -116.14 | 0.00 | 116.14 | 2901.53 | 1450.76 | 5276.32 | 2642.08 | 1.66 | -0.18 | 0.035 |
| 90.00 | -23.87 | -1.40 | 0.00 | -113.33 | 0.00 | 113.33 | 2882.84 | 1441.42 | 5186.12 | 2596.92 | 1.73 | -0.18 | 0.035 |
| 91.00 | -23.56 | -1.40 | 0.00 | -111.93 | 0.00 | 111.93 | 2898.35 | 1449.17 | 5260.87 | 2634.34 | 1.77 | -0.18 | 0.035 |
| 92.00 | -23.38 | -1.40 | 0.00 | -110.53 | 0.00 | 110.53 | 2889.01 | 1444.51 | 5215.76 | 2611.76 | 1.81 | -0.19 | 0.034 |
| 93.83 | -23.07 | -1.40 | 0.00 | -107.97 | 0.00 | 107.97 | 2871.76 | 1435.88 | 5133.38 | 2570.50 | 1.88 | -0.19 | 0.034 |
| 93.83 | -23.07 | -1.40 | 0.00 | -107.97 | 0.00 | 107.97 | 2871.76 | 1435.88 | 5133.38 | 2570.50 | 1.88 | -0.19 | 0.034 |
| 94.00 | -23.04 | -1.40 | 0.00 | -107.73 | 0.00 | 107.73 | 2870.15 | 1435.07 | 5125.73 | 2566.68 | 1.89 | -0.19 | 0.050 |
| 96.00 | -22.69 | -1.40 | 0.00 | -104.92 | 0.00 | 104.92 | 2851.02 | 1425.51 | 5035.98 | 2521.73 | 1.97 | -0.20 | 0.050 |
| 98.00 | -22.35 | -1.40 | 0.00 | -102.12 | 0.00 | 102.12 | 2831.62 | 1415.81 | 4946.52 | 2476.93 | 2.05 | -0.20 | 0.049 |
| 100.00 | -22.02 | -1.41 | 0.00 | -99.31 | 0.00 | 99.31 | 2811.97 | 1405.98 | 4857.35 | 2432.29 | 2.14 | -0.21 | 0.049 |
| 102.00 | -21.68 | -1.41 | 0.00 | -96.50 | 0.00 | 96.50 | 2792.05 | 1396.03 | 4768.51 | 2387.80 | 2.23 | -0.21 | 0.048 |
| 104.00 | -21.35 | -1.41 | 0.00 | -93.69 | 0.00 | 93.69 | 2771.87 | 1385.94 | 4680.00 | 2343.48 | 2.32 | -0.22 | 0.048 |
| 106.00 | -21.02 | -1.41 | 0.00 | -90.87 | 0.00 | 90.87 | 2751.43 | 1375.71 | 4591.84 | 2299.33 | 2.41 | -0.23 | 0.047 |
| 108.00 | -20.70 | -1.41 | 0.00 | -88.06 | 0.00 | 88.06 | 2730.72 | 1365.36 | 4504.04 | 2255.37 | 2.51 | -0.23 | 0.047 |
| 110.00 | -20.37 | -1.41 | 0.00 | -85.24 | 0.00 | 85.24 | 2709.75 | 1354.88 | 4416.62 | 2211.59 | 2.61 | -0.24 | 0.046 |
| 111.17 | -20.19 | -1.41 | 0.00 | -83.59 | 0.00 | 83.59 | 2697.36 | 1348.68 | 4365.66 | 2186.08 | 2.67 | -0.24 | 0.037 |
| 112.00 | -20.05 | -1.41 | 0.00 | -82.42 | 0.00 | 82.42 | 2688.52 | 1344.26 | 4329.60 | 2168.02 | 2.71 | -0.24 | 0.036 |
| 114.00 | -19.74 | -1.41 | 0.00 | -79.60 | 0.00 | 79.60 | 2667.03 | 1333.51 | 4242.98 | 2124.64 | 2.81 | -0.25 | 0.036 |
| 115.00 | -19.58 | -1.41 | 0.00 | -78.19 | 0.00 | 78.19 | 2656.18 | 1328.09 | 4199.83 | 2103.04 | 2.87 | -0.25 | 0.035 |
| 115.00 | -19.58 | -1.41 | 0.00 | -78.19 | 0.00 | 78.19 | 1951.15 | 975.57 | 3095.05 | 1549.82 | 2.87 | -0.25 | 0.038 |
| 116.00 | -19.44 | -1.41 | 0.00 | -76.77 | 0.00 | 76.77 | 1944.57 | 972.29 | 3065.67 | 1535.11 | 2.92 | -0.25 | 0.044 |
| 118.00 | -19.18 | -1.41 | 0.00 | -73.95 | 0.00 | 73.95 | 1931.24 | 965.62 | 3006.98 | 1505.73 | 3.03 | -0.26 | 0.043 |
| 120.00 | -18.91 | -1.41 | 0.00 | -71.13 | 0.00 | 71.13 | 1917.63 | 958.82 | 2948.42 | 1476.40 | 3.14 | -0.26 | 0.043 |
| 122.00 | -18.65 | -1.41 | 0.00 | -68.30 | 0.00 | 68.30 | 1903.77 | 951.88 | 2889.98 | 1447.14 | 3.25 | -0.27 | 0.042 |
| 123.83 | -18.42 | -1.41 | 0.00 | -65.72 | 0.00 | 65.72 | 1890.85 | 945.43 | 2836.64 | 1420.43 | 3.35 | -0.28 | 0.041 |
| 123.83 | -18.42 | -1.41 | 0.00 | -65.72 | 0.00 | 65.72 | 1890.85 | 945.43 | 2836.64 | 1420.43 | 3.35 | -0.28 | 0.041 |
| 124.00 | -18.39 | -1.41 | 0.00 | -65.47 | 0.00 | 65.47 | 1889.64 | 944.82 | 2831.69 | 1417.95 | 3.36 | -0.28 | 0.056 |
| 126.00 | -18.14 | -1.42 | 0.00 | -62.65 | 0.00 | 62.65 | 1875.25 | 937.63 | 2773.56 | 1388.84 | 3.48 | -0.28 | 0.055 |
| 128.00 | -17.88 | -1.42 | 0.00 | -59.81 | 0.00 | 59.81 | 1860.60 | 930.30 | 2715.62 | 1359.83 | 3.60 | -0.29 | 0.054 |
| 130.00 | -17.63 | -1.42 | 0.00 | -56.98 | 0.00 | 56.98 | 1845.69 | 922.84 | 2657.86 | 1330.91 | 3.72 | -0.30 | 0.052 |
| 132.00 | -17.21 | -1.42 | 0.00 | -54.15 | 0.00 | 54.15 | 1830.51 | 915.25 | 2600.31 | 1302.09 | 3.85 | -0.31 | 0.051 |
| 134.00 | -16.79 | -1.42 | 0.00 | -51.31 | 0.00 | 51.31 | 1815.07 | 907.53 | 2542.99 | 1273.39 | 3.98 | -0.31 | 0.050 |
| 135.00 | -16.59 | -1.42 | 0.00 | -49.89 | 0.00 | 49.89 | 1823.79 | 911.89 | 2575.21 | 1289.52 | 4.05 | -0.32 | 0.048 |
| 136.00 | -16.46 | -1.42 | 0.00 | -48.48 | 0.00 | 48.48 | 1816.04 | 908.02 | 2546.57 | 1275.18 | 4.11 | -0.32 | 0.047 |
| 138.00 | -16.22 | -1.42 | 0.00 | -45.64 | 0.00 | 45.64 | 1800.35 | 900.18 | 2489.47 | 1246.58 | 4.25 | -0.33 | 0.046 |
| 140.00 | -15.97 | -1.42 | 0.00 | -42.80 | 0.00 | 42.80 | 1784.41 | 892.20 | 2432.62 | 1218.12 | 4.39 | -0.33 | 0.044 |
| 142.00 | -15.73 | -1.42 | 0.00 | -39.97 | 0.00 | 39.97 | 1768.19 | 884.10 | 2376.04 | 1189.79 | 4.53 | -0.34 | 0.042 |
| 143.00 | -13.01 | -1.40 | 0.00 | -38.55 | 0.00 | 38.55 | 1759.99 | 879.99 | 2347.86 | 1175.68 | 4.60 | -0.34 | 0.040 |
| 144.00 | -12.91 | -1.40 | 0.00 | -37.14 | 0.00 | 37.14 | 1751.72 | 875.86 | 2319.75 | 1161.60 | 4.67 | -0.35 | 0.039 |
| 146.00 | -12.69 | -1.40 | 0.00 | -34.34 | 0.00 | 34.34 | 1734.98 | 867.49 | 2263.76 | 1133.56 | 4.82 | -0.35 | 0.038 |
| 148.00 | -12.49 | -1.40 | 0.00 | -31.53 | 0.00 | 31.53 | 1717.98 | 858.99 | 2208.08 | 1105.68 | 4.97 | -0.36 | 0.036 |
| 150.00 | -12.28 | -1.40 | 0.00 | -28.73 | 0.00 | 28.73 | 1700.72 | 850.36 | 2152.74 | 1077.97 | 5.12 | -0.36 | 0.034 |
| 152.00 | -12.07 | -1.39 | 0.00 | -25.94 | 0.00 | 25.94 | 1683.20 | 841.60 | 2097.74 | 1050.43 | 5.27 | -0.37 | 0.032 |
| 153.00 | -9.09 | -1.26 | 0.00 | -24.55 | 0.00 | 24.55 | 1674.33 | 837.17 | 2070.37 | 1036.72 | 5.35 | -0.37 | 0.029 |
| 154.00 | -9.00 | -1.26 | 0.00 | -23.29 | 0.00 | 23.29 | 1665.41 | 832.70 | 2043.10 | 1023.07 | 5.43 | -0.37 | 0.028 |
| 156.00 | -8.82 | -1.25 | 0.00 | -20.77 | 0.00 | 20.77 | 1647.36 | 823.68 | 1988.83 | 995.90 | 5.58 | -0.38 | 0.026 |
| 158.00 | -7.30 | -1.14 | 0.00 | -18.28 | 0.00 | 18.28 | 1629.04 | 814.52 | 1934.96 | 968.92 | 5.74 | -0.38 | 0.023 |
| 160.00 | -7.12 | -1.13 | 0.00 | -15.99 | 0.00 | 15.99 | 1610.47 | 805.23 | 1881.50 | 942.15 | 5.91 | -0.39 | 0.021 |
| 162.00 | -6.95 | -1.12 | 0.00 | -13.72 | 0.00 | 13.72 | 1591.63 | 795.82 | 1828.46 | 915.59 | 6.07 | -0.39 | 0.019 |
| 163.00 | -5.33 | -0.96 | 0.00 | -12.60 | 0.00 | 12.60 | 1582.11 | 791.06 | 1802.10 | 902.39 | 6.15 | -0.39 | 0.017 |
| 164.00 | -5.24 | -0.96 | 0.00 | -11.64 | 0.00 | 11.64 | 1572.53 | 786.27 | 1775.86 | 889.25 | 6.23 | -0.39 | 0.016 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 76

| | | | | | | | | | | | | | |
|--------|-------|-------|------|-------|------|------|---------|--------|---------|--------|------|-------|-------|
| 166.00 | -5.08 | -0.94 | 0.00 | -9.73 | 0.00 | 9.73 | 1553.17 | 776.58 | 1723.71 | 863.13 | 6.40 | -0.40 | 0.015 |
| 168.00 | -4.92 | -0.92 | 0.00 | -7.85 | 0.00 | 7.85 | 1533.54 | 766.77 | 1672.03 | 837.26 | 6.57 | -0.40 | 0.013 |
| 170.00 | -4.77 | -0.90 | 0.00 | -6.00 | 0.00 | 6.00 | 1513.65 | 756.83 | 1620.83 | 811.62 | 6.73 | -0.40 | 0.011 |
| 172.00 | -4.61 | -0.88 | 0.00 | -4.19 | 0.00 | 4.19 | 1493.50 | 746.75 | 1570.13 | 786.23 | 6.90 | -0.40 | 0.008 |
| 173.00 | -1.97 | -0.44 | 0.00 | -3.31 | 0.00 | 3.31 | 1483.33 | 741.66 | 1544.98 | 773.64 | 6.99 | -0.40 | 0.006 |
| 174.00 | -1.91 | -0.43 | 0.00 | -2.87 | 0.00 | 2.87 | 1473.09 | 736.54 | 1519.95 | 761.10 | 7.07 | -0.40 | 0.005 |
| 176.00 | -1.78 | -0.41 | 0.00 | -2.00 | 0.00 | 2.00 | 1452.41 | 726.20 | 1470.30 | 736.24 | 7.24 | -0.41 | 0.004 |
| 178.00 | -1.66 | -0.39 | 0.00 | -1.18 | 0.00 | 1.18 | 1427.85 | 713.93 | 1417.60 | 709.85 | 7.41 | -0.41 | 0.003 |
| 180.00 | -1.54 | -0.36 | 0.00 | -0.41 | 0.00 | 0.41 | 1400.09 | 700.05 | 1362.74 | 682.38 | 7.58 | -0.41 | 0.002 |
| 180.00 | -1.54 | -0.36 | 0.00 | -0.41 | 0.00 | 0.41 | 678.42 | 339.21 | 662.23 | 396.30 | 7.58 | -0.41 | 0.003 |
| 181.00 | -0.13 | -0.03 | 0.00 | -0.05 | 0.00 | 0.05 | 678.42 | 339.21 | 662.23 | 396.30 | 7.67 | -0.41 | 0.000 |
| 182.00 | -0.07 | -0.02 | 0.00 | -0.02 | 0.00 | 0.02 | 678.42 | 339.21 | 662.23 | 396.30 | 7.75 | -0.41 | 0.000 |
| 183.00 | 0.00 | -0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 678.42 | 339.21 | 662.23 | 396.30 | 7.84 | -0.41 | 0.000 |

Wind Loading - Shaft

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



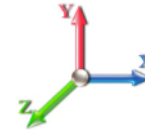
Page: 77

Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 28

Dead Load Factor 1.00

Wind Load Factor 1.00



| Elev (ft) | Description | Kzt | Kz | qz (psf) | qzGh (psf) | C (mph-ft) | Cf | Ice Thick (in) | Tributary (ft) | Aa (sf) | CfAa (sf) | Wind Force X (lb) | Dead Load Ice (lb) | Tot Dead Load (lb) |
|--------------|-----------------|------|------|-------------|---------------|---------------|-------|----------------------|-------------------|------------|--------------|-------------------------|--------------------------|-----------------------------|
| 0.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 273.99 | 0.650 | 0.000 | 0.00 | 0.000 | 0.00 | 0.0 | 0.0 | 0.0 |
| 2.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 271.99 | 0.650 | 0.000 | 2.00 | 10.876 | 7.07 | 47.7 | 0.0 | 517.5 |
| 4.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 269.99 | 0.650 | 0.000 | 2.00 | 10.796 | 7.02 | 47.3 | 0.0 | 513.7 |
| 6.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 267.99 | 0.650 | 0.000 | 2.00 | 10.717 | 6.97 | 47.0 | 0.0 | 509.9 |
| 8.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 265.99 | 0.650 | 0.000 | 2.00 | 10.637 | 6.91 | 46.6 | 0.0 | 506.1 |
| 10.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 263.99 | 0.650 | 0.000 | 2.00 | 10.557 | 6.86 | 46.3 | 0.0 | 502.3 |
| 12.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 261.99 | 0.650 | 0.000 | 2.00 | 10.478 | 6.81 | 45.9 | 0.0 | 498.4 |
| 14.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 259.99 | 0.650 | 0.000 | 2.00 | 10.398 | 6.76 | 45.6 | 0.0 | 494.6 |
| 16.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 257.99 | 0.650 | 0.000 | 2.00 | 10.318 | 6.71 | 45.2 | 0.0 | 490.8 |
| 18.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 255.99 | 0.650 | 0.000 | 2.00 | 10.239 | 6.66 | 44.9 | 0.0 | 487.0 |
| 20.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 253.99 | 0.650 | 0.000 | 2.00 | 10.159 | 6.60 | 44.5 | 0.0 | 483.2 |
| 22.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 251.99 | 0.650 | 0.000 | 2.00 | 10.079 | 6.55 | 44.2 | 0.0 | 479.4 |
| 24.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 249.99 | 0.650 | 0.000 | 2.00 | 9.999 | 6.50 | 43.8 | 0.0 | 475.6 |
| 26.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 247.98 | 0.650 | 0.000 | 2.00 | 9.920 | 6.45 | 43.5 | 0.0 | 471.7 |
| 28.00 | | 1.00 | 0.70 | 6.129 | 6.74 | 245.98 | 0.650 | 0.000 | 2.00 | 9.840 | 6.40 | 43.1 | 0.0 | 467.9 |
| 30.00 | | 1.00 | 0.70 | 6.134 | 6.75 | 244.09 | 0.650 | 0.000 | 2.00 | 9.760 | 6.34 | 42.8 | 0.0 | 464.1 |
| 32.00 | | 1.00 | 0.71 | 6.248 | 6.87 | 244.33 | 0.650 | 0.000 | 2.00 | 9.681 | 6.29 | 43.2 | 0.0 | 460.3 |
| 34.00 | | 1.00 | 0.73 | 6.357 | 6.99 | 244.42 | 0.650 | 0.000 | 2.00 | 9.601 | 6.24 | 43.6 | 0.0 | 456.5 |
| 36.00 | | 1.00 | 0.74 | 6.462 | 7.11 | 244.37 | 0.650 | 0.000 | 2.00 | 9.521 | 6.19 | 44.0 | 0.0 | 452.7 |
| 38.00 | | 1.00 | 0.75 | 6.562 | 7.22 | 244.19 | 0.650 | 0.000 | 2.00 | 9.442 | 6.14 | 44.3 | 0.0 | 448.9 |
| 40.00 | | 1.00 | 0.76 | 6.659 | 7.33 | 243.90 | 0.650 | 0.000 | 2.00 | 9.362 | 6.09 | 44.6 | 0.0 | 445.0 |
| 41.00 | Bot - Section 2 | 1.00 | 0.77 | 6.706 | 7.38 | 243.72 | 0.650 | 0.000 | 1.00 | 4.651 | 3.02 | 22.3 | 0.0 | 221.1 |
| 42.00 | | 1.00 | 0.77 | 6.753 | 7.43 | 243.51 | 0.650 | 0.000 | 1.00 | 4.695 | 3.05 | 22.7 | 0.0 | 443.3 |
| 44.00 | | 1.00 | 0.78 | 6.843 | 7.53 | 243.02 | 0.650 | 0.000 | 2.00 | 9.330 | 6.06 | 45.6 | 0.0 | 880.9 |
| 46.00 | | 1.00 | 0.79 | 6.931 | 7.62 | 242.44 | 0.650 | 0.000 | 2.00 | 9.250 | 6.01 | 45.8 | 0.0 | 873.3 |
| 48.00 | Top - Section 1 | 1.00 | 0.80 | 7.015 | 7.72 | 241.78 | 0.650 | 0.000 | 2.00 | 9.170 | 5.96 | 46.0 | 0.0 | 865.7 |
| 50.00 | | 1.00 | 0.81 | 7.098 | 7.81 | 244.47 | 0.650 | 0.000 | 2.00 | 9.091 | 5.91 | 46.1 | 0.0 | 432.1 |
| 51.00 | Top - Section 2 | 1.00 | 0.82 | 7.138 | 7.85 | 244.09 | 0.650 | 0.000 | 1.00 | 4.515 | 2.94 | 23.0 | 0.0 | 214.6 |
| 52.00 | | 1.00 | 0.82 | 7.178 | 7.90 | 243.68 | 0.650 | 0.000 | 1.00 | 4.495 | 2.92 | 23.1 | 0.0 | 213.6 |
| 54.00 | | 1.00 | 0.83 | 7.255 | 7.98 | 242.82 | 0.650 | 0.000 | 2.00 | 8.931 | 5.81 | 46.3 | 0.0 | 424.4 |
| 56.00 | | 1.00 | 0.84 | 7.331 | 8.06 | 241.90 | 0.650 | 0.000 | 2.00 | 8.852 | 5.75 | 46.4 | 0.0 | 420.6 |
| 58.00 | | 1.00 | 0.85 | 7.405 | 8.15 | 240.92 | 0.650 | 0.000 | 2.00 | 8.772 | 5.70 | 46.4 | 0.0 | 416.8 |
| 60.00 | | 1.00 | 0.85 | 7.477 | 8.22 | 239.88 | 0.650 | 0.000 | 2.00 | 8.692 | 5.65 | 46.5 | 0.0 | 413.0 |
| 62.00 | | 1.00 | 0.86 | 7.548 | 8.30 | 238.78 | 0.650 | 0.000 | 2.00 | 8.612 | 5.60 | 46.5 | 0.0 | 409.2 |
| 64.00 | | 1.00 | 0.87 | 7.616 | 8.38 | 237.64 | 0.650 | 0.000 | 2.00 | 8.533 | 5.55 | 46.5 | 0.0 | 405.4 |
| 66.00 | | 1.00 | 0.88 | 7.684 | 8.45 | 236.45 | 0.650 | 0.000 | 2.00 | 8.453 | 5.49 | 46.4 | 0.0 | 401.5 |
| 66.17 | RB1 | 1.00 | 0.88 | 7.689 | 8.46 | 236.34 | 0.650 | 0.000 | 0.17 | 0.715 | 0.46 | 3.9 | 0.0 | 34.0 |
| 68.00 | | 1.00 | 0.89 | 7.749 | 8.52 | 235.21 | 0.650 | 0.000 | 1.83 | 7.659 | 4.98 | 42.4 | 0.0 | 363.8 |
| 70.00 | | 1.00 | 0.89 | 7.814 | 8.60 | 233.93 | 0.650 | 0.000 | 2.00 | 8.294 | 5.39 | 46.3 | 0.0 | 393.9 |
| 71.00 | Top - Section 3 | 1.00 | 0.90 | 7.846 | 8.63 | 233.27 | 0.650 | 0.000 | 1.00 | 4.117 | 2.68 | 23.1 | 0.0 | 195.5 |
| 72.00 | | 1.00 | 0.90 | 7.877 | 8.66 | 232.60 | 0.650 | 0.000 | 1.00 | 4.097 | 2.66 | 23.1 | 0.0 | 194.6 |
| 74.00 | | 1.00 | 0.91 | 7.939 | 8.73 | 231.24 | 0.650 | 0.000 | 2.00 | 8.134 | 5.29 | 46.2 | 0.0 | 386.3 |
| 76.00 | | 1.00 | 0.91 | 8.000 | 8.80 | 229.83 | 0.650 | 0.000 | 2.00 | 8.055 | 5.24 | 46.1 | 0.0 | 382.5 |
| 78.00 | | 1.00 | 0.92 | 8.059 | 8.87 | 228.39 | 0.650 | 0.000 | 2.00 | 7.975 | 5.18 | 46.0 | 0.0 | 378.7 |
| 80.00 | | 1.00 | 0.93 | 8.118 | 8.93 | 226.92 | 0.650 | 0.000 | 2.00 | 7.895 | 5.13 | 45.8 | 0.0 | 374.8 |
| 81.00 | Top - Section 4 | 1.00 | 0.93 | 8.147 | 8.96 | 226.17 | 0.650 | 0.000 | 1.00 | 3.918 | 2.55 | 22.8 | 0.0 | 186.0 |
| 82.00 | | 1.00 | 0.93 | 8.175 | 8.99 | 225.41 | 0.650 | 0.000 | 1.00 | 3.898 | 2.53 | 22.8 | 0.0 | 154.4 |

Wind Loading - Shaft

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 78

| | | | | | | | | | | | | | |
|------------------------|------|------|--------|-------|--------|-------|-------|------|-------|------|------|-----|-------|
| 84.00 | 1.00 | 0.94 | 8.232 | 9.05 | 223.87 | 0.650 | 0.000 | 2.00 | 7.736 | 5.03 | 45.5 | 0.0 | 306.4 |
| 85.00 Bot - Section 6 | 1.00 | 0.94 | 8.260 | 9.09 | 223.09 | 0.650 | 0.000 | 1.00 | 3.838 | 2.49 | 22.7 | 0.0 | 152.0 |
| 86.00 | 1.00 | 0.95 | 8.287 | 9.12 | 222.30 | 0.650 | 0.000 | 1.00 | 3.871 | 2.52 | 22.9 | 0.0 | 304.6 |
| 88.00 | 1.00 | 0.95 | 8.342 | 9.18 | 220.70 | 0.650 | 0.000 | 2.00 | 7.682 | 4.99 | 45.8 | 0.0 | 604.4 |
| 90.00 | 1.00 | 0.96 | 8.396 | 9.24 | 219.07 | 0.650 | 0.000 | 2.00 | 7.603 | 4.94 | 45.6 | 0.0 | 598.0 |
| 91.00 Top - Section 5 | 1.00 | 0.96 | 8.422 | 9.26 | 218.24 | 0.650 | 0.000 | 1.00 | 3.771 | 2.45 | 22.7 | 0.0 | 296.6 |
| 92.00 | 1.00 | 0.96 | 8.448 | 9.29 | 220.53 | 0.650 | 0.000 | 1.00 | 3.752 | 2.44 | 22.7 | 0.0 | 148.6 |
| 93.83 RT1 | 1.00 | 0.97 | 8.496 | 9.35 | 219.00 | 0.650 | 0.000 | 1.83 | 6.814 | 4.43 | 41.4 | 0.0 | 269.8 |
| 94.00 | 1.00 | 0.97 | 8.501 | 9.35 | 218.85 | 0.650 | 0.000 | 0.17 | 0.630 | 0.41 | 3.8 | 0.0 | 24.9 |
| 96.00 | 1.00 | 0.98 | 8.552 | 9.41 | 217.15 | 0.650 | 0.000 | 2.00 | 7.364 | 4.79 | 45.0 | 0.0 | 291.6 |
| 98.00 | 1.00 | 0.98 | 8.602 | 9.46 | 215.42 | 0.650 | 0.000 | 2.00 | 7.284 | 4.73 | 44.8 | 0.0 | 288.4 |
| 100.00 | 1.00 | 0.99 | 8.652 | 9.52 | 213.67 | 0.650 | 0.000 | 2.00 | 7.204 | 4.68 | 44.6 | 0.0 | 285.2 |
| 102.00 | 1.00 | 0.99 | 8.701 | 9.57 | 211.89 | 0.650 | 0.000 | 2.00 | 7.125 | 4.63 | 44.3 | 0.0 | 282.1 |
| 104.00 | 1.00 | 1.00 | 8.750 | 9.62 | 210.09 | 0.650 | 0.000 | 2.00 | 7.045 | 4.58 | 44.1 | 0.0 | 278.9 |
| 106.00 | 1.00 | 1.00 | 8.797 | 9.68 | 208.26 | 0.650 | 0.000 | 2.00 | 6.567 | 4.27 | 41.3 | 0.0 | 275.7 |
| 108.00 | 1.00 | 1.01 | 8.845 | 9.73 | 206.42 | 0.650 | 0.000 | 2.00 | 6.487 | 4.22 | 41.0 | 0.0 | 272.5 |
| 110.00 | 1.00 | 1.02 | 8.891 | 9.78 | 204.55 | 0.650 | 0.000 | 2.00 | 6.407 | 4.16 | 40.7 | 0.0 | 269.3 |
| 111.17 RB2 | 1.00 | 1.02 | 8.918 | 9.81 | 203.45 | 0.650 | 0.000 | 1.17 | 3.711 | 2.41 | 23.7 | 0.0 | 156.1 |
| 112.00 | 1.00 | 1.02 | 8.937 | 9.83 | 202.66 | 0.650 | 0.000 | 0.83 | 2.616 | 1.70 | 16.7 | 0.0 | 110.1 |
| 114.00 | 1.00 | 1.03 | 8.982 | 9.88 | 200.75 | 0.650 | 0.000 | 2.00 | 6.248 | 4.06 | 40.1 | 0.0 | 263.0 |
| 115.00 Top - Section 6 | 1.00 | 1.03 | 9.005 | 9.91 | 199.79 | 0.650 | 0.000 | 1.00 | 3.293 | 2.14 | 21.2 | 0.0 | 130.3 |
| 116.00 | 1.00 | 1.03 | 9.027 | 9.93 | 198.82 | 0.650 | 0.000 | 1.00 | 3.273 | 2.13 | 21.1 | 0.0 | 103.8 |
| 118.00 | 1.00 | 1.04 | 9.071 | 9.98 | 196.88 | 0.650 | 0.000 | 2.00 | 6.487 | 4.22 | 42.1 | 0.0 | 205.6 |
| 120.00 | 1.00 | 1.04 | 9.115 | 10.03 | 194.91 | 0.650 | 0.000 | 2.00 | 6.407 | 4.16 | 41.8 | 0.0 | 203.1 |
| 122.00 | 1.00 | 1.05 | 9.158 | 10.07 | 192.93 | 0.650 | 0.000 | 2.00 | 6.328 | 4.11 | 41.4 | 0.0 | 200.6 |
| 123.83 RT2 | 1.00 | 1.05 | 9.197 | 10.12 | 191.10 | 0.650 | 0.000 | 1.83 | 5.720 | 3.72 | 37.6 | 0.0 | 181.3 |
| 124.00 | 1.00 | 1.05 | 9.201 | 10.12 | 190.92 | 0.650 | 0.000 | 0.17 | 0.528 | 0.34 | 3.5 | 0.0 | 16.7 |
| 126.00 | 1.00 | 1.06 | 9.243 | 10.17 | 188.91 | 0.650 | 0.000 | 2.00 | 6.168 | 4.01 | 40.8 | 0.0 | 195.5 |
| 128.00 | 1.00 | 1.06 | 9.284 | 10.21 | 186.87 | 0.650 | 0.000 | 2.00 | 6.089 | 3.96 | 40.4 | 0.0 | 192.9 |
| 130.00 Bot - Section 8 | 1.00 | 1.07 | 9.326 | 10.26 | 184.82 | 0.650 | 0.000 | 2.00 | 6.009 | 3.91 | 40.1 | 0.0 | 190.4 |
| 132.00 | 1.00 | 1.07 | 9.366 | 10.30 | 182.75 | 0.650 | 0.000 | 2.00 | 6.014 | 3.91 | 40.3 | 0.0 | 378.4 |
| 134.00 | 1.00 | 1.07 | 9.407 | 10.35 | 180.66 | 0.650 | 0.000 | 2.00 | 5.934 | 3.86 | 39.9 | 0.0 | 373.3 |
| 135.00 Top - Section 7 | 1.00 | 1.08 | 9.427 | 10.37 | 179.61 | 0.650 | 0.000 | 1.00 | 2.937 | 1.91 | 19.8 | 0.0 | 184.7 |
| 136.00 | 1.00 | 1.08 | 9.447 | 10.39 | 181.20 | 0.650 | 0.000 | 1.00 | 2.917 | 1.90 | 19.7 | 0.0 | 92.4 |
| 138.00 | 1.00 | 1.08 | 9.486 | 10.43 | 179.09 | 0.650 | 0.000 | 2.00 | 5.775 | 3.75 | 39.2 | 0.0 | 182.9 |
| 140.00 | 1.00 | 1.09 | 9.525 | 10.48 | 176.97 | 0.650 | 0.000 | 2.00 | 5.695 | 3.70 | 38.8 | 0.0 | 180.4 |
| 142.00 | 1.00 | 1.09 | 9.564 | 10.52 | 174.83 | 0.650 | 0.000 | 2.00 | 5.616 | 3.65 | 38.4 | 0.0 | 177.8 |
| 143.00 Appurtenance(s) | 1.00 | 1.09 | 9.583 | 10.54 | 173.75 | 0.650 | 0.000 | 1.00 | 2.778 | 1.81 | 19.0 | 0.0 | 88.0 |
| 144.00 | 1.00 | 1.10 | 9.602 | 10.56 | 172.67 | 0.650 | 0.000 | 1.00 | 2.758 | 1.79 | 18.9 | 0.0 | 87.3 |
| 146.00 | 1.00 | 1.10 | 9.640 | 10.60 | 170.50 | 0.650 | 0.000 | 2.00 | 5.456 | 3.55 | 37.6 | 0.0 | 172.7 |
| 148.00 | 1.00 | 1.11 | 9.678 | 10.65 | 168.32 | 0.650 | 0.000 | 2.00 | 5.376 | 3.49 | 37.2 | 0.0 | 170.2 |
| 150.00 | 1.00 | 1.11 | 9.715 | 10.69 | 166.13 | 0.650 | 0.000 | 2.00 | 5.297 | 3.44 | 36.8 | 0.0 | 167.7 |
| 152.00 | 1.00 | 1.11 | 9.752 | 10.73 | 163.92 | 0.650 | 0.000 | 2.00 | 5.217 | 3.39 | 36.4 | 0.0 | 165.1 |
| 153.00 Appurtenance(s) | 1.00 | 1.12 | 9.770 | 10.75 | 162.81 | 0.650 | 0.000 | 1.00 | 2.579 | 1.68 | 18.0 | 0.0 | 81.6 |
| 154.00 | 1.00 | 1.12 | 9.788 | 10.77 | 161.70 | 0.650 | 0.000 | 1.00 | 2.559 | 1.66 | 17.9 | 0.0 | 81.0 |
| 156.00 | 1.00 | 1.12 | 9.824 | 10.81 | 159.46 | 0.650 | 0.000 | 2.00 | 5.058 | 3.29 | 35.5 | 0.0 | 160.0 |
| 158.00 Appurtenance(s) | 1.00 | 1.13 | 9.860 | 10.85 | 157.22 | 0.650 | 0.000 | 2.00 | 4.978 | 3.24 | 35.1 | 0.0 | 157.5 |
| 160.00 | 1.00 | 1.13 | 9.896 | 10.89 | 154.96 | 0.650 | 0.000 | 2.00 | 4.898 | 3.18 | 34.7 | 0.0 | 154.9 |
| 162.00 | 1.00 | 1.13 | 9.931 | 10.92 | 152.69 | 0.650 | 0.000 | 2.00 | 4.819 | 3.13 | 34.2 | 0.0 | 152.4 |
| 163.00 Appurtenance(s) | 1.00 | 1.14 | 9.948 | 10.94 | 151.55 | 0.650 | 0.000 | 1.00 | 2.379 | 1.55 | 16.9 | 0.0 | 75.2 |
| 164.00 | 1.00 | 1.14 | 9.966 | 10.96 | 150.41 | 0.650 | 0.000 | 1.00 | 2.360 | 1.53 | 16.8 | 0.0 | 74.6 |
| 166.00 | 1.00 | 1.14 | 10.000 | 11.00 | 148.11 | 0.650 | 0.000 | 2.00 | 4.659 | 3.03 | 33.3 | 0.0 | 147.3 |
| 168.00 | 1.00 | 1.15 | 10.035 | 11.04 | 145.81 | 0.650 | 0.000 | 2.00 | 4.580 | 2.98 | 32.9 | 0.0 | 144.8 |
| 170.00 | 1.00 | 1.15 | 10.069 | 11.08 | 143.49 | 0.650 | 0.000 | 2.00 | 4.500 | 2.92 | 32.4 | 0.0 | 142.2 |
| 172.00 | 1.00 | 1.15 | 10.102 | 11.11 | 141.16 | 0.650 | 0.000 | 2.00 | 4.420 | 2.87 | 31.9 | 0.0 | 139.7 |
| 173.00 Appurtenance(s) | 1.00 | 1.16 | 10.119 | 11.13 | 139.99 | 0.650 | 0.000 | 1.00 | 2.180 | 1.42 | 15.8 | 0.0 | 68.9 |
| 174.00 | 1.00 | 1.16 | 10.136 | 11.15 | 138.82 | 0.650 | 0.000 | 1.00 | 2.160 | 1.40 | 15.7 | 0.0 | 68.3 |

Wind Loading - Shaft

| | | |
|---------------------------------|-----------------------------------|-----------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Page: 79 |
| | Struct Class: II | |



| | | | | | | | | | | | | | |
|------------------------|------|------|--------|-------|--------|-------|-------|---------------|-------|------|----------------|-----|-----------------|
| 176.00 | 1.00 | 1.16 | 10.169 | 11.19 | 136.47 | 0.650 | 0.000 | 2.00 | 4.261 | 2.77 | 31.0 | 0.0 | 134.6 |
| 178.00 | 1.00 | 1.17 | 10.202 | 11.22 | 134.11 | 0.650 | 0.000 | 2.00 | 4.181 | 2.72 | 30.5 | 0.0 | 132.1 |
| 180.00 Top - Section 8 | 1.00 | 1.17 | 10.234 | 11.26 | 131.74 | 0.650 | 0.000 | 2.00 | 4.102 | 2.67 | 30.0 | 0.0 | 129.5 |
| 181.00 Appurtenance(s) | 1.00 | 1.17 | 10.251 | 11.28 | 129.84 | 0.600 | 0.000 | 1.00 | 2.000 | 1.20 | 13.5 | 0.0 | 71.3 |
| 182.00 | 1.00 | 1.17 | 10.267 | 11.29 | 129.95 | 0.600 | 0.000 | 1.00 | 2.000 | 1.20 | 13.6 | 0.0 | 71.3 |
| 183.00 | 1.00 | 1.17 | 10.283 | 11.31 | 130.05 | 0.600 | 0.000 | 1.00 | 2.000 | 1.20 | 13.6 | 0.0 | 71.3 |
| Totals: | | | | | | | | 183.00 | | | 3,820.9 | | 31,483.2 |

Discrete Appurtenance Forces

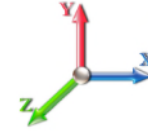
| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |
| | | Page: 80 |



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 28

| No. | Elev (ft) | Description | Qty | qz (psf) | qzGh (psf) | Orient Factor x Ka | Ka | Total CaAa (sf) | Dead Load (lb) | Horiz Ecc (ft) | Vert Ecc (ft) | Wind FX (lb) | Mom Y (lb-ft) | Mom Z (lb-ft) |
|-----|-----------|-------------------------|-----|----------|------------|--------------------|------|-----------------|----------------|----------------|---------------|--------------|---------------|---------------|
| 1 | 181.00 | Low Profile | 1 | 10.251 | 11.276 | 1.00 | 1.00 | 22.00 | 1500.00 | 0.000 | 0.000 | 248.06 | 0.00 | 0.00 |
| 2 | 173.00 | Samsung B2/B66 RRH | 3 | 10.119 | 11.131 | 0.54 | 0.80 | 3.01 | 253.20 | 0.000 | 0.000 | 33.47 | 0.00 | 0.00 |
| 3 | 173.00 | Andrew JAHH-65B-R3B | 6 | 10.119 | 11.131 | 0.66 | 0.80 | 36.29 | 379.80 | 0.000 | 0.000 | 403.99 | 0.00 | 0.00 |
| 4 | 173.00 | BSAMNT-SBS-1-2 | 3 | 10.119 | 11.131 | 0.75 | 0.75 | 0.00 | 76.05 | 0.000 | 0.000 | 0.00 | 0.00 | 0.00 |
| 5 | 173.00 | CBC78T-DS-43/E14F05P | 3 | 10.119 | 11.131 | 0.54 | 0.80 | 0.59 | 31.20 | 0.000 | 0.000 | 6.62 | 0.00 | 0.00 |
| 6 | 173.00 | Samsung MT6407-77A | 3 | 10.119 | 11.131 | 0.56 | 0.80 | 7.88 | 238.20 | 0.000 | 0.000 | 87.70 | 0.00 | 0.00 |
| 7 | 173.00 | Samsung B5/B13 RRH | 3 | 10.119 | 11.131 | 0.54 | 0.80 | 3.01 | 210.90 | 0.000 | 0.000 | 33.47 | 0.00 | 0.00 |
| 8 | 173.00 | (3) T-Arms | 1 | 10.119 | 11.131 | 0.75 | 0.75 | 22.50 | 1500.00 | 0.000 | 0.000 | 250.45 | 0.00 | 0.00 |
| 9 | 173.00 | LPA-80080-4CF-EDIN-0 | 4 | 10.119 | 11.131 | 1.36 | 0.80 | 14.20 | 48.00 | 0.000 | 0.000 | 158.04 | 0.00 | 0.00 |
| 10 | 173.00 | APL866513-42T0 | 2 | 10.119 | 11.131 | 0.74 | 0.80 | 6.03 | 31.40 | 0.000 | 0.000 | 67.08 | 0.00 | 0.00 |
| 11 | 173.00 | DB-T1-6Z-8AB-OZ | 2 | 10.119 | 11.131 | 0.60 | 0.80 | 5.76 | 88.00 | 0.000 | 0.000 | 64.11 | 0.00 | 0.00 |
| 12 | 163.00 | LLPX310R | 3 | 9.948 | 10.943 | 0.55 | 0.80 | 7.12 | 85.80 | 0.000 | 0.000 | 77.92 | 0.00 | 0.00 |
| 13 | 163.00 | Low Profile | 1 | 9.948 | 10.943 | 1.00 | 1.00 | 22.00 | 1500.00 | 0.000 | 0.000 | 240.75 | 0.00 | 0.00 |
| 14 | 163.00 | DAP Head | 3 | 9.948 | 10.943 | 0.54 | 0.80 | 3.02 | 126.00 | 0.000 | 0.000 | 33.08 | 0.00 | 0.00 |
| 15 | 158.00 | Low Profile | 1 | 9.860 | 10.846 | 1.00 | 1.00 | 22.00 | 1500.00 | 0.000 | 0.000 | 238.62 | 0.00 | 0.00 |
| 16 | 153.00 | V-brace kit | 1 | 9.770 | 10.747 | 1.00 | 1.00 | 2.70 | 230.00 | 0.000 | 0.000 | 29.02 | 0.00 | 0.00 |
| 17 | 153.00 | SPTB(Tie back Kit) | 1 | 9.770 | 10.747 | 1.00 | 1.00 | 3.70 | 140.00 | 0.000 | 0.000 | 39.76 | 0.00 | 0.00 |
| 18 | 153.00 | PRK-1245 (kicker kit) | 1 | 9.770 | 10.747 | 1.00 | 1.00 | 9.50 | 464.91 | 0.000 | 0.000 | 102.10 | 0.00 | 0.00 |
| 19 | 153.00 | RFS | 3 | 9.770 | 10.747 | 0.56 | 0.80 | 34.00 | 368.40 | 0.000 | 0.000 | 365.43 | 0.00 | 0.00 |
| 20 | 153.00 | KRY 112 144/1 | 3 | 9.770 | 10.747 | 0.56 | 0.80 | 0.69 | 33.00 | 0.000 | 0.000 | 7.40 | 0.00 | 0.00 |
| 21 | 153.00 | Ericsson Air 21 B2A/B4P | 3 | 9.770 | 10.747 | 0.69 | 0.80 | 12.57 | 274.50 | 0.000 | 0.000 | 135.09 | 0.00 | 0.00 |
| 22 | 153.00 | Low Profile Platform | 1 | 9.770 | 10.747 | 1.00 | 1.00 | 25.00 | 1200.00 | 0.000 | 0.000 | 268.67 | 0.00 | 0.00 |
| 23 | 153.00 | Ericsson 4449 B71 + B85 | 3 | 9.770 | 10.747 | 0.54 | 0.80 | 3.17 | 219.60 | 0.000 | 0.000 | 34.04 | 0.00 | 0.00 |
| 24 | 153.00 | Ericsson Air 21 B4A/B2P | 3 | 9.770 | 10.747 | 0.69 | 0.80 | 12.57 | 271.20 | 0.000 | 0.000 | 135.09 | 0.00 | 0.00 |
| 25 | 143.00 | Powerwave 7770.00 | 3 | 9.583 | 10.541 | 0.55 | 0.75 | 9.03 | 105.00 | 0.000 | 0.000 | 95.23 | 0.00 | 0.00 |
| 26 | 143.00 | 850-1900 Dual Band | 3 | 9.583 | 10.541 | 0.49 | 0.75 | 0.77 | 16.50 | 0.000 | 0.000 | 8.14 | 0.00 | 0.00 |
| 27 | 143.00 | Low Profile | 1 | 9.583 | 10.541 | 1.00 | 1.00 | 22.00 | 1500.00 | 0.000 | 0.000 | 231.91 | 0.00 | 0.00 |
| 28 | 143.00 | RRUS 11 | 3 | 9.583 | 10.541 | 0.50 | 0.75 | 3.80 | 152.10 | 0.000 | 0.000 | 40.05 | 0.00 | 0.00 |
| 29 | 143.00 | DC6-48-60-18-8F | 1 | 9.583 | 10.541 | 0.75 | 0.75 | 1.10 | 31.80 | 0.000 | 0.000 | 11.62 | 0.00 | 0.00 |
| 30 | 143.00 | DBC-750 | 3 | 9.583 | 10.541 | 0.38 | 0.75 | 0.57 | 14.40 | 0.000 | 0.000 | 6.05 | 0.00 | 0.00 |
| 31 | 143.00 | HRK14 | 1 | 9.583 | 10.541 | 1.00 | 1.00 | 10.13 | 352.36 | 0.000 | 0.000 | 106.78 | 0.00 | 0.00 |
| 32 | 143.00 | TPA-65R-LCUUUU-H8 | 2 | 9.583 | 10.541 | 0.62 | 0.75 | 16.56 | 150.00 | 0.000 | 0.000 | 174.55 | 0.00 | 0.00 |
| 33 | 143.00 | QS46512-2 | 1 | 9.583 | 10.541 | 0.75 | 0.75 | 4.16 | 27.30 | 0.000 | 0.000 | 43.88 | 0.00 | 0.00 |
| 34 | 143.00 | OPA-65R-LCUU-H4 | 1 | 9.583 | 10.541 | 0.75 | 0.75 | 4.46 | 57.00 | 0.000 | 0.000 | 46.96 | 0.00 | 0.00 |
| 35 | 143.00 | OPA-65R-LCUU-H8 | 2 | 9.583 | 10.541 | 0.59 | 0.75 | 15.11 | 190.00 | 0.000 | 0.000 | 159.27 | 0.00 | 0.00 |
| 36 | 143.00 | DTMABP7819VG12A | 3 | 9.583 | 10.541 | 0.50 | 0.75 | 1.72 | 57.60 | 0.000 | 0.000 | 18.12 | 0.00 | 0.00 |
| 37 | 143.00 | DBC0061F1V51-2 | 3 | 9.583 | 10.541 | 0.50 | 0.75 | 0.65 | 76.20 | 0.000 | 0.000 | 6.83 | 0.00 | 0.00 |
| 38 | 143.00 | RRUS 32 B2 | 3 | 9.583 | 10.541 | 0.50 | 0.75 | 4.13 | 159.00 | 0.000 | 0.000 | 43.54 | 0.00 | 0.00 |

Totals: 13,659.42

4,052.90

Total Applied Force Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 81

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 28

| Elev (ft) | Description | Lateral FX (-) (lb) | Axial FY (-) (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) |
|--------------|-------------|---------------------------|-------------------------|--------------------------|-------------------------|
| 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 |
| 2.00 | | 47.66 | 607.03 | 0.00 | 0.00 |
| 4.00 | | 47.31 | 603.22 | 0.00 | 0.00 |
| 6.00 | | 46.96 | 599.41 | 0.00 | 0.00 |
| 8.00 | | 46.61 | 595.59 | 0.00 | 0.00 |
| 10.00 | | 46.26 | 591.78 | 0.00 | 0.00 |
| 12.00 | | 45.91 | 587.96 | 0.00 | 0.00 |
| 14.00 | | 45.56 | 584.15 | 0.00 | 0.00 |
| 16.00 | | 45.21 | 580.34 | 0.00 | 0.00 |
| 18.00 | | 44.87 | 576.52 | 0.00 | 0.00 |
| 20.00 | | 44.52 | 572.71 | 0.00 | 0.00 |
| 22.00 | | 44.17 | 568.90 | 0.00 | 0.00 |
| 24.00 | | 43.82 | 565.08 | 0.00 | 0.00 |
| 26.00 | | 43.47 | 561.27 | 0.00 | 0.00 |
| 28.00 | | 43.12 | 557.45 | 0.00 | 0.00 |
| 30.00 | | 42.81 | 553.64 | 0.00 | 0.00 |
| 32.00 | | 43.25 | 549.83 | 0.00 | 0.00 |
| 34.00 | | 43.64 | 546.01 | 0.00 | 0.00 |
| 36.00 | | 43.99 | 542.20 | 0.00 | 0.00 |
| 38.00 | | 44.30 | 538.39 | 0.00 | 0.00 |
| 40.00 | | 44.58 | 534.57 | 0.00 | 0.00 |
| 41.00 | | 22.30 | 265.86 | 0.00 | 0.00 |
| 42.00 | | 22.67 | 488.08 | 0.00 | 0.00 |
| 44.00 | | 45.65 | 970.44 | 0.00 | 0.00 |
| 46.00 | | 45.84 | 962.81 | 0.00 | 0.00 |
| 48.00 | | 46.00 | 955.18 | 0.00 | 0.00 |
| 50.00 | | 46.13 | 521.58 | 0.00 | 0.00 |
| 51.00 | | 23.04 | 259.36 | 0.00 | 0.00 |
| 52.00 | | 23.07 | 258.41 | 0.00 | 0.00 |
| 54.00 | | 46.33 | 513.95 | 0.00 | 0.00 |
| 56.00 | | 46.40 | 510.14 | 0.00 | 0.00 |
| 58.00 | | 46.44 | 506.32 | 0.00 | 0.00 |
| 60.00 | | 46.47 | 502.51 | 0.00 | 0.00 |
| 62.00 | | 46.48 | 498.70 | 0.00 | 0.00 |
| 64.00 | | 46.47 | 494.88 | 0.00 | 0.00 |
| 66.00 | | 46.44 | 491.07 | 0.00 | 0.00 |
| 66.17 | | 3.93 | 41.57 | 0.00 | 0.00 |
| 68.00 | | 42.44 | 445.69 | 0.00 | 0.00 |
| 70.00 | | 46.34 | 483.44 | 0.00 | 0.00 |
| 71.00 | | 23.09 | 240.29 | 0.00 | 0.00 |
| 72.00 | | 23.07 | 239.33 | 0.00 | 0.00 |
| 74.00 | | 46.17 | 475.81 | 0.00 | 0.00 |
| 76.00 | | 46.07 | 472.00 | 0.00 | 0.00 |
| 78.00 | | 45.95 | 468.18 | 0.00 | 0.00 |
| 80.00 | | 45.83 | 464.37 | 0.00 | 0.00 |
| 81.00 | | 22.82 | 230.75 | 0.00 | 0.00 |
| 82.00 | | 22.78 | 199.17 | 0.00 | 0.00 |

Total Applied Force Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 82

| | | | | | |
|--------|------------------|---------|---------|------|------|
| 84.00 | | 45.53 | 395.96 | 0.00 | 0.00 |
| 85.00 | | 22.67 | 196.79 | 0.00 | 0.00 |
| 86.00 | | 22.94 | 349.34 | 0.00 | 0.00 |
| 88.00 | | 45.82 | 693.91 | 0.00 | 0.00 |
| 90.00 | | 45.64 | 687.55 | 0.00 | 0.00 |
| 91.00 | | 22.71 | 341.39 | 0.00 | 0.00 |
| 92.00 | | 22.66 | 193.34 | 0.00 | 0.00 |
| 93.83 | | 41.39 | 351.75 | 0.00 | 0.00 |
| 94.00 | | 3.83 | 32.54 | 0.00 | 0.00 |
| 96.00 | | 45.03 | 381.12 | 0.00 | 0.00 |
| 98.00 | | 44.80 | 377.94 | 0.00 | 0.00 |
| 100.00 | | 44.57 | 374.76 | 0.00 | 0.00 |
| 102.00 | | 44.33 | 371.58 | 0.00 | 0.00 |
| 104.00 | | 44.07 | 368.40 | 0.00 | 0.00 |
| 106.00 | | 41.31 | 365.22 | 0.00 | 0.00 |
| 108.00 | | 41.02 | 362.05 | 0.00 | 0.00 |
| 110.00 | | 40.73 | 358.87 | 0.00 | 0.00 |
| 111.17 | | 23.66 | 208.46 | 0.00 | 0.00 |
| 112.00 | | 16.72 | 147.23 | 0.00 | 0.00 |
| 114.00 | | 40.13 | 352.51 | 0.00 | 0.00 |
| 115.00 | | 21.20 | 175.06 | 0.00 | 0.00 |
| 116.00 | | 21.13 | 148.54 | 0.00 | 0.00 |
| 118.00 | | 42.07 | 295.16 | 0.00 | 0.00 |
| 120.00 | | 41.76 | 292.62 | 0.00 | 0.00 |
| 122.00 | | 41.43 | 290.08 | 0.00 | 0.00 |
| 123.83 | | 37.61 | 263.20 | 0.00 | 0.00 |
| 124.00 | | 3.47 | 24.34 | 0.00 | 0.00 |
| 126.00 | | 40.76 | 284.99 | 0.00 | 0.00 |
| 128.00 | | 40.42 | 282.45 | 0.00 | 0.00 |
| 130.00 | | 40.07 | 279.91 | 0.00 | 0.00 |
| 132.00 | | 40.28 | 467.91 | 0.00 | 0.00 |
| 134.00 | | 39.91 | 462.82 | 0.00 | 0.00 |
| 135.00 | | 19.80 | 229.51 | 0.00 | 0.00 |
| 136.00 | | 19.70 | 137.17 | 0.00 | 0.00 |
| 138.00 | | 39.17 | 272.44 | 0.00 | 0.00 |
| 140.00 | | 38.79 | 269.90 | 0.00 | 0.00 |
| 142.00 | | 38.40 | 267.36 | 0.00 | 0.00 |
| 143.00 | (30) attachments | 1011.96 | 3021.98 | 0.00 | 0.00 |
| 144.00 | | 18.94 | 118.73 | 0.00 | 0.00 |
| 146.00 | | 37.61 | 235.55 | 0.00 | 0.00 |
| 148.00 | | 37.20 | 233.01 | 0.00 | 0.00 |
| 150.00 | | 36.79 | 230.47 | 0.00 | 0.00 |
| 152.00 | | 36.38 | 227.92 | 0.00 | 0.00 |
| 153.00 | (19) attachments | 1134.62 | 3314.62 | 0.00 | 0.00 |
| 154.00 | | 17.91 | 100.01 | 0.00 | 0.00 |
| 156.00 | | 35.53 | 198.12 | 0.00 | 0.00 |
| 158.00 | (1) attachments | 273.71 | 1695.58 | 0.00 | 0.00 |
| 160.00 | | 34.66 | 193.03 | 0.00 | 0.00 |
| 162.00 | | 34.22 | 190.49 | 0.00 | 0.00 |
| 163.00 | (7) attachments | 368.68 | 1806.09 | 0.00 | 0.00 |
| 164.00 | | 16.81 | 90.61 | 0.00 | 0.00 |
| 166.00 | | 33.32 | 179.31 | 0.00 | 0.00 |
| 168.00 | | 32.86 | 176.76 | 0.00 | 0.00 |
| 170.00 | | 32.40 | 174.22 | 0.00 | 0.00 |
| 172.00 | | 31.93 | 171.68 | 0.00 | 0.00 |
| 173.00 | (30) attachments | 1120.71 | 2941.64 | 0.00 | 0.00 |
| 174.00 | | 15.66 | 69.57 | 0.00 | 0.00 |

Total Applied Force Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 83

| | | | | |
|----------------|------------------------|------------------|-------------|-------------|
| 176.00 | 30.98 | 137.23 | 0.00 | 0.00 |
| 178.00 | 30.50 | 134.69 | 0.00 | 0.00 |
| 180.00 | 30.01 | 132.15 | 0.00 | 0.00 |
| 181.00 | (1) attachments 261.59 | 1572.56 | 0.00 | 0.00 |
| 182.00 | 13.55 | 72.56 | 0.00 | 0.00 |
| 183.00 | 13.57 | 72.56 | 0.00 | 0.00 |
| Totals: | 7,873.84 | 52,221.26 | 0.00 | 0.00 |

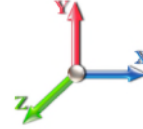
Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 84

| | |
|---|----------------------|
| Load Case: 1.0D + 1.0W 60 mph Wind | Iterations 28 |
| Dead Load Factor 1.00 | |
| Wind Load Factor 1.00 | |



| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 2.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.030 | 0.000 | 6.129 | 0.00 | 0.55 |
| 2.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.030 | 0.000 | 6.129 | 0.00 | 2.08 |
| 2.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.030 | 0.000 | 6.129 | 0.00 | 6.24 |
| 4.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 0.55 |
| 4.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 2.08 |
| 4.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 6.24 |
| 6.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 0.55 |
| 6.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 2.08 |
| 6.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 6.24 |
| 8.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 0.55 |
| 8.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 2.08 |
| 8.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 6.24 |
| 10.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 0.55 |
| 10.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 2.08 |
| 10.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 6.24 |
| 12.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 0.55 |
| 12.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 2.08 |
| 12.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.031 | 0.000 | 6.129 | 0.00 | 6.24 |
| 14.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 6.129 | 0.00 | 0.55 |
| 14.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 6.129 | 0.00 | 2.08 |
| 14.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.032 | 0.000 | 6.129 | 0.00 | 6.24 |
| 16.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 6.129 | 0.00 | 0.55 |
| 16.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 6.129 | 0.00 | 2.08 |
| 16.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.032 | 0.000 | 6.129 | 0.00 | 6.24 |
| 18.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 6.129 | 0.00 | 0.55 |
| 18.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 6.129 | 0.00 | 2.08 |
| 18.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.032 | 0.000 | 6.129 | 0.00 | 6.24 |
| 20.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 6.129 | 0.00 | 0.55 |
| 20.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.032 | 0.000 | 6.129 | 0.00 | 2.08 |
| 20.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.032 | 0.000 | 6.129 | 0.00 | 6.24 |
| 22.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 6.129 | 0.00 | 0.55 |
| 22.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 6.129 | 0.00 | 2.08 |
| 22.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.033 | 0.000 | 6.129 | 0.00 | 6.24 |
| 24.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 6.129 | 0.00 | 0.55 |
| 24.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 6.129 | 0.00 | 2.08 |
| 24.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.033 | 0.000 | 6.129 | 0.00 | 6.24 |
| 26.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 6.129 | 0.00 | 0.55 |
| 26.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.033 | 0.000 | 6.129 | 0.00 | 2.08 |
| 26.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.033 | 0.000 | 6.129 | 0.00 | 6.24 |
| 28.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 6.129 | 0.00 | 0.55 |
| 28.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 6.129 | 0.00 | 2.08 |
| 28.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.034 | 0.000 | 6.129 | 0.00 | 6.24 |
| 30.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 6.134 | 0.00 | 0.55 |
| 30.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 6.134 | 0.00 | 2.08 |
| 30.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.034 | 0.000 | 6.134 | 0.00 | 6.24 |
| 32.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 6.248 | 0.00 | 0.55 |
| 32.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 6.248 | 0.00 | 2.08 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 85

Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 28

Dead Load Factor 1.00

Wind Load Factor 1.00



| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 32.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.034 | 0.000 | 6.248 | 0.00 | 6.24 |
| 34.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 6.357 | 0.00 | 0.55 |
| 34.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.034 | 0.000 | 6.357 | 0.00 | 2.08 |
| 34.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.034 | 0.000 | 6.357 | 0.00 | 6.24 |
| 36.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 6.462 | 0.00 | 0.55 |
| 36.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 6.462 | 0.00 | 2.08 |
| 36.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.035 | 0.000 | 6.462 | 0.00 | 6.24 |
| 38.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 6.562 | 0.00 | 0.55 |
| 38.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 6.562 | 0.00 | 2.08 |
| 38.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.035 | 0.000 | 6.562 | 0.00 | 6.24 |
| 40.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 6.659 | 0.00 | 0.55 |
| 40.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 6.659 | 0.00 | 2.08 |
| 40.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.035 | 0.000 | 6.659 | 0.00 | 6.24 |
| 41.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 6.706 | 0.00 | 0.27 |
| 41.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.035 | 0.000 | 6.706 | 0.00 | 1.04 |
| 41.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.035 | 0.000 | 6.706 | 0.00 | 3.12 |
| 42.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 6.753 | 0.00 | 0.27 |
| 42.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 6.753 | 0.00 | 1.04 |
| 42.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.036 | 0.000 | 6.753 | 0.00 | 3.12 |
| 44.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 6.843 | 0.00 | 0.55 |
| 44.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 6.843 | 0.00 | 2.08 |
| 44.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.036 | 0.000 | 6.843 | 0.00 | 6.24 |
| 46.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 6.931 | 0.00 | 0.55 |
| 46.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 6.931 | 0.00 | 2.08 |
| 46.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.036 | 0.000 | 6.931 | 0.00 | 6.24 |
| 48.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 7.015 | 0.00 | 0.55 |
| 48.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 7.015 | 0.00 | 2.08 |
| 48.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.036 | 0.000 | 7.015 | 0.00 | 6.24 |
| 50.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 7.098 | 0.00 | 0.55 |
| 50.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.036 | 0.000 | 7.098 | 0.00 | 2.08 |
| 50.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.036 | 0.000 | 7.098 | 0.00 | 6.24 |
| 51.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 7.138 | 0.00 | 0.27 |
| 51.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 7.138 | 0.00 | 1.04 |
| 51.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.037 | 0.000 | 7.138 | 0.00 | 3.12 |
| 52.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 7.178 | 0.00 | 0.27 |
| 52.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 7.178 | 0.00 | 1.04 |
| 52.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.037 | 0.000 | 7.178 | 0.00 | 3.12 |
| 54.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 7.255 | 0.00 | 0.55 |
| 54.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 7.255 | 0.00 | 2.08 |
| 54.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.037 | 0.000 | 7.255 | 0.00 | 6.24 |
| 56.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 7.331 | 0.00 | 0.55 |
| 56.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.037 | 0.000 | 7.331 | 0.00 | 2.08 |
| 56.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.037 | 0.000 | 7.331 | 0.00 | 6.24 |
| 58.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 7.405 | 0.00 | 0.55 |
| 58.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 7.405 | 0.00 | 2.08 |
| 58.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.038 | 0.000 | 7.405 | 0.00 | 6.24 |
| 60.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 7.477 | 0.00 | 0.55 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 86

| | |
|---|----------------------|
| Load Case: 1.0D + 1.0W 60 mph Wind | Iterations 28 |
| Dead Load Factor 1.00 | |
| Wind Load Factor 1.00 | |



| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 60.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 7.477 | 0.00 | 2.08 |
| 60.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.038 | 0.000 | 7.477 | 0.00 | 6.24 |
| 62.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 7.548 | 0.00 | 0.55 |
| 62.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.038 | 0.000 | 7.548 | 0.00 | 2.08 |
| 62.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.038 | 0.000 | 7.548 | 0.00 | 6.24 |
| 64.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 7.616 | 0.00 | 0.55 |
| 64.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 7.616 | 0.00 | 2.08 |
| 64.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.039 | 0.000 | 7.616 | 0.00 | 6.24 |
| 66.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 7.684 | 0.00 | 0.55 |
| 66.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 7.684 | 0.00 | 2.08 |
| 66.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.039 | 0.000 | 7.684 | 0.00 | 6.24 |
| 66.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 7.684 | 0.00 | 0.00 |
| 66.17 | Safety Cable | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 7.689 | 0.00 | 0.05 |
| 66.17 | Step bolts (ladder) | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 7.689 | 0.00 | 0.18 |
| 66.17 | 1 5/8" Coax | Yes | 0.17 | 0.000 | 1.98 | 0.03 | 0.00 | 0.039 | 0.000 | 7.689 | 0.00 | 0.53 |
| 66.17 | C6X10.5 Reinforcing | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 7.689 | 0.00 | 0.00 |
| 68.00 | Safety Cable | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 7.749 | 0.00 | 0.50 |
| 68.00 | Step bolts (ladder) | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 7.749 | 0.00 | 1.90 |
| 68.00 | 1 5/8" Coax | Yes | 1.83 | 0.000 | 1.98 | 0.30 | 0.00 | 0.039 | 0.000 | 7.749 | 0.00 | 5.71 |
| 68.00 | C6X10.5 Reinforcing | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.039 | 0.000 | 7.749 | 0.00 | 0.00 |
| 70.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 7.814 | 0.00 | 0.55 |
| 70.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 7.814 | 0.00 | 2.08 |
| 70.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.040 | 0.000 | 7.814 | 0.00 | 6.24 |
| 70.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 7.814 | 0.00 | 0.00 |
| 71.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 7.846 | 0.00 | 0.27 |
| 71.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 7.846 | 0.00 | 1.04 |
| 71.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.040 | 0.000 | 7.846 | 0.00 | 3.12 |
| 71.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 7.846 | 0.00 | 0.00 |
| 72.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 7.877 | 0.00 | 0.27 |
| 72.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 7.877 | 0.00 | 1.04 |
| 72.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.040 | 0.000 | 7.877 | 0.00 | 3.12 |
| 72.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.040 | 0.000 | 7.877 | 0.00 | 0.00 |
| 74.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 7.939 | 0.00 | 0.55 |
| 74.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 7.939 | 0.00 | 2.08 |
| 74.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.041 | 0.000 | 7.939 | 0.00 | 6.24 |
| 74.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 7.939 | 0.00 | 0.00 |
| 76.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 8.000 | 0.00 | 0.55 |
| 76.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 8.000 | 0.00 | 2.08 |
| 76.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.041 | 0.000 | 8.000 | 0.00 | 6.24 |
| 76.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 8.000 | 0.00 | 0.00 |
| 78.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 8.059 | 0.00 | 0.55 |
| 78.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 8.059 | 0.00 | 2.08 |
| 78.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.041 | 0.000 | 8.059 | 0.00 | 6.24 |
| 78.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.041 | 0.000 | 8.059 | 0.00 | 0.00 |
| 80.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 8.118 | 0.00 | 0.55 |
| 80.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 8.118 | 0.00 | 2.08 |
| 80.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.042 | 0.000 | 8.118 | 0.00 | 6.24 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 87

| | |
|---|----------------------|
| Load Case: 1.0D + 1.0W 60 mph Wind | Iterations 28 |
| Dead Load Factor 1.00 | |
| Wind Load Factor 1.00 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 80.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 8.118 | 0.00 | 0.00 |
| 81.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 8.147 | 0.00 | 0.27 |
| 81.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 8.147 | 0.00 | 1.04 |
| 81.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.042 | 0.000 | 8.147 | 0.00 | 3.12 |
| 81.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 8.147 | 0.00 | 0.00 |
| 82.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 8.175 | 0.00 | 0.27 |
| 82.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 8.175 | 0.00 | 1.04 |
| 82.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.042 | 0.000 | 8.175 | 0.00 | 3.12 |
| 82.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.042 | 0.000 | 8.175 | 0.00 | 0.00 |
| 84.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 8.232 | 0.00 | 0.55 |
| 84.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 8.232 | 0.00 | 2.08 |
| 84.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.043 | 0.000 | 8.232 | 0.00 | 6.24 |
| 84.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 8.232 | 0.00 | 0.00 |
| 85.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 8.260 | 0.00 | 0.27 |
| 85.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 8.260 | 0.00 | 1.04 |
| 85.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.043 | 0.000 | 8.260 | 0.00 | 3.12 |
| 85.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 8.260 | 0.00 | 0.00 |
| 86.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 8.287 | 0.00 | 0.27 |
| 86.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 8.287 | 0.00 | 1.04 |
| 86.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.043 | 0.000 | 8.287 | 0.00 | 3.12 |
| 86.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.043 | 0.000 | 8.287 | 0.00 | 0.00 |
| 88.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.342 | 0.00 | 0.55 |
| 88.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.342 | 0.00 | 2.08 |
| 88.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.044 | 0.000 | 8.342 | 0.00 | 6.24 |
| 88.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.342 | 0.00 | 0.00 |
| 90.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.396 | 0.00 | 0.55 |
| 90.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.396 | 0.00 | 2.08 |
| 90.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.044 | 0.000 | 8.396 | 0.00 | 6.24 |
| 90.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.396 | 0.00 | 0.00 |
| 91.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.422 | 0.00 | 0.27 |
| 91.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.422 | 0.00 | 1.04 |
| 91.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.044 | 0.000 | 8.422 | 0.00 | 3.12 |
| 91.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.422 | 0.00 | 0.00 |
| 92.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.448 | 0.00 | 0.27 |
| 92.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.448 | 0.00 | 1.04 |
| 92.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.044 | 0.000 | 8.448 | 0.00 | 3.12 |
| 92.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.448 | 0.00 | 0.00 |
| 93.83 | Safety Cable | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.496 | 0.00 | 0.50 |
| 93.83 | Step bolts (ladder) | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.496 | 0.00 | 1.90 |
| 93.83 | 1 5/8" Coax | Yes | 1.83 | 0.000 | 1.98 | 0.30 | 0.00 | 0.044 | 0.000 | 8.496 | 0.00 | 5.71 |
| 93.83 | C6X10.5 Reinforcing | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.044 | 0.000 | 8.496 | 0.00 | 0.00 |
| 94.00 | Safety Cable | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 8.501 | 0.00 | 0.05 |
| 94.00 | Step bolts (ladder) | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 8.501 | 0.00 | 0.18 |
| 94.00 | 1 5/8" Coax | Yes | 0.17 | 0.000 | 1.98 | 0.03 | 0.00 | 0.045 | 0.000 | 8.501 | 0.00 | 0.53 |
| 94.00 | C6X10.5 Reinforcing | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 8.501 | 0.00 | 0.00 |
| 96.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 8.552 | 0.00 | 0.55 |
| 96.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 8.552 | 0.00 | 2.08 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 88

| | |
|---|----------------------|
| Load Case: 1.0D + 1.0W 60 mph Wind | Iterations 28 |
| Dead Load Factor 1.00 | |
| Wind Load Factor 1.00 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 96.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.045 | 0.000 | 8.552 | 0.00 | 6.24 |
| 96.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 8.552 | 0.00 | 0.00 |
| 98.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 8.602 | 0.00 | 0.55 |
| 98.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.045 | 0.000 | 8.602 | 0.00 | 2.08 |
| 98.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.045 | 0.000 | 8.602 | 0.00 | 6.24 |
| 100.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 8.652 | 0.00 | 0.55 |
| 100.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 8.652 | 0.00 | 2.08 |
| 100.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.046 | 0.000 | 8.652 | 0.00 | 6.24 |
| 102.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 8.701 | 0.00 | 0.55 |
| 102.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.046 | 0.000 | 8.701 | 0.00 | 2.08 |
| 102.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.046 | 0.000 | 8.701 | 0.00 | 6.24 |
| 104.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 8.750 | 0.00 | 0.55 |
| 104.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 8.750 | 0.00 | 2.08 |
| 104.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.047 | 0.000 | 8.750 | 0.00 | 6.24 |
| 106.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 8.797 | 0.00 | 0.55 |
| 106.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.047 | 0.000 | 8.797 | 0.00 | 2.08 |
| 106.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.047 | 0.000 | 8.797 | 0.00 | 6.24 |
| 108.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 8.845 | 0.00 | 0.55 |
| 108.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 8.845 | 0.00 | 2.08 |
| 108.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.048 | 0.000 | 8.845 | 0.00 | 6.24 |
| 110.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 8.891 | 0.00 | 0.55 |
| 110.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.048 | 0.000 | 8.891 | 0.00 | 2.08 |
| 110.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.048 | 0.000 | 8.891 | 0.00 | 6.24 |
| 111.17 | Safety Cable | Yes | 1.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 8.918 | 0.00 | 0.32 |
| 111.17 | Step bolts (ladder) | Yes | 1.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 8.918 | 0.00 | 1.22 |
| 111.17 | 1 5/8" Coax | Yes | 1.17 | 0.000 | 1.98 | 0.19 | 0.00 | 0.049 | 0.000 | 8.918 | 0.00 | 3.65 |
| 111.17 | C6X10.5 Reinforcing | Yes | 1.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 8.918 | 0.00 | 0.00 |
| 112.00 | Safety Cable | Yes | 0.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 8.937 | 0.00 | 0.23 |
| 112.00 | Step bolts (ladder) | Yes | 0.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 8.937 | 0.00 | 0.86 |
| 112.00 | 1 5/8" Coax | Yes | 0.83 | 0.000 | 1.98 | 0.14 | 0.00 | 0.049 | 0.000 | 8.937 | 0.00 | 2.59 |
| 112.00 | C6X10.5 Reinforcing | Yes | 0.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.049 | 0.000 | 8.937 | 0.00 | 0.00 |
| 114.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 8.982 | 0.00 | 0.55 |
| 114.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 8.982 | 0.00 | 2.08 |
| 114.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.050 | 0.000 | 8.982 | 0.00 | 6.24 |
| 114.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 8.982 | 0.00 | 0.00 |
| 115.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 9.005 | 0.00 | 0.27 |
| 115.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 9.005 | 0.00 | 1.04 |
| 115.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.050 | 0.000 | 9.005 | 0.00 | 3.12 |
| 115.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 9.005 | 0.00 | 0.00 |
| 116.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 9.027 | 0.00 | 0.27 |
| 116.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 9.027 | 0.00 | 1.04 |
| 116.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.050 | 0.000 | 9.027 | 0.00 | 3.12 |
| 116.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | 9.027 | 0.00 | 0.00 |
| 118.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.051 | 0.000 | 9.071 | 0.00 | 0.55 |
| 118.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.051 | 0.000 | 9.071 | 0.00 | 2.08 |
| 118.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.051 | 0.000 | 9.071 | 0.00 | 6.24 |
| 118.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.051 | 0.000 | 9.071 | 0.00 | 0.00 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 89

| | |
|---|----------------------|
| Load Case: 1.0D + 1.0W 60 mph Wind | Iterations 28 |
| Dead Load Factor 1.00 | |
| Wind Load Factor 1.00 | |



| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 120.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 9.115 | 0.00 | 0.55 |
| 120.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 9.115 | 0.00 | 2.08 |
| 120.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.052 | 0.000 | 9.115 | 0.00 | 6.24 |
| 120.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 9.115 | 0.00 | 0.00 |
| 122.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 9.158 | 0.00 | 0.55 |
| 122.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 9.158 | 0.00 | 2.08 |
| 122.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.052 | 0.000 | 9.158 | 0.00 | 6.24 |
| 122.00 | C6X10.5 Reinforcing | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.052 | 0.000 | 9.158 | 0.00 | 0.00 |
| 123.83 | Safety Cable | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 9.197 | 0.00 | 0.50 |
| 123.83 | Step bolts (ladder) | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 9.197 | 0.00 | 1.90 |
| 123.83 | 1 5/8" Coax | Yes | 1.83 | 0.000 | 1.98 | 0.30 | 0.00 | 0.053 | 0.000 | 9.197 | 0.00 | 5.71 |
| 123.83 | C6X10.5 Reinforcing | Yes | 1.83 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 9.197 | 0.00 | 0.00 |
| 124.00 | Safety Cable | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 9.201 | 0.00 | 0.05 |
| 124.00 | Step bolts (ladder) | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 9.201 | 0.00 | 0.18 |
| 124.00 | 1 5/8" Coax | Yes | 0.17 | 0.000 | 1.98 | 0.03 | 0.00 | 0.053 | 0.000 | 9.201 | 0.00 | 0.53 |
| 124.00 | C6X10.5 Reinforcing | Yes | 0.17 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 9.201 | 0.00 | 0.00 |
| 126.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 9.243 | 0.00 | 0.55 |
| 126.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 9.243 | 0.00 | 2.08 |
| 126.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.053 | 0.000 | 9.243 | 0.00 | 6.24 |
| 126.00 | C6X10.5 Reinforcing | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.053 | 0.000 | 9.243 | 0.00 | 0.00 |
| 128.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.054 | 0.000 | 9.284 | 0.00 | 0.55 |
| 128.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.054 | 0.000 | 9.284 | 0.00 | 2.08 |
| 128.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.054 | 0.000 | 9.284 | 0.00 | 6.24 |
| 130.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.055 | 0.000 | 9.326 | 0.00 | 0.55 |
| 130.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.055 | 0.000 | 9.326 | 0.00 | 2.08 |
| 130.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.055 | 0.000 | 9.326 | 0.00 | 6.24 |
| 132.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 9.366 | 0.00 | 0.55 |
| 132.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 9.366 | 0.00 | 2.08 |
| 132.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.056 | 0.000 | 9.366 | 0.00 | 6.24 |
| 134.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 9.407 | 0.00 | 0.55 |
| 134.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.056 | 0.000 | 9.407 | 0.00 | 2.08 |
| 134.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.056 | 0.000 | 9.407 | 0.00 | 6.24 |
| 135.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 9.427 | 0.00 | 0.27 |
| 135.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 9.427 | 0.00 | 1.04 |
| 135.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.057 | 0.000 | 9.427 | 0.00 | 3.12 |
| 136.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 9.447 | 0.00 | 0.27 |
| 136.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 9.447 | 0.00 | 1.04 |
| 136.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.057 | 0.000 | 9.447 | 0.00 | 3.12 |
| 138.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 9.486 | 0.00 | 0.55 |
| 138.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.057 | 0.000 | 9.486 | 0.00 | 2.08 |
| 138.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.057 | 0.000 | 9.486 | 0.00 | 6.24 |
| 140.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.058 | 0.000 | 9.525 | 0.00 | 0.55 |
| 140.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.058 | 0.000 | 9.525 | 0.00 | 2.08 |
| 140.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.058 | 0.000 | 9.525 | 0.00 | 6.24 |
| 142.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 9.564 | 0.00 | 0.55 |
| 142.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 9.564 | 0.00 | 2.08 |
| 142.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.059 | 0.000 | 9.564 | 0.00 | 6.24 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 90

| | |
|---|----------------------|
| Load Case: 1.0D + 1.0W 60 mph Wind | Iterations 28 |
| Dead Load Factor 1.00 | |
| Wind Load Factor 1.00 | |

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|---------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|----------|----------------|
| 143.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 9.583 | 0.00 | 0.27 |
| 143.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.059 | 0.000 | 9.583 | 0.00 | 1.04 |
| 143.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.059 | 0.000 | 9.583 | 0.00 | 3.12 |
| 144.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 9.602 | 0.00 | 0.27 |
| 144.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 9.602 | 0.00 | 1.04 |
| 144.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.060 | 0.000 | 9.602 | 0.00 | 3.12 |
| 146.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 9.640 | 0.00 | 0.55 |
| 146.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.060 | 0.000 | 9.640 | 0.00 | 2.08 |
| 146.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.060 | 0.000 | 9.640 | 0.00 | 6.24 |
| 148.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.061 | 0.000 | 9.678 | 0.00 | 0.55 |
| 148.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.061 | 0.000 | 9.678 | 0.00 | 2.08 |
| 148.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.061 | 0.000 | 9.678 | 0.00 | 6.24 |
| 150.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.062 | 0.000 | 9.715 | 0.00 | 0.55 |
| 150.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.062 | 0.000 | 9.715 | 0.00 | 2.08 |
| 150.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.062 | 0.000 | 9.715 | 0.00 | 6.24 |
| 152.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.063 | 0.000 | 9.752 | 0.00 | 0.55 |
| 152.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.063 | 0.000 | 9.752 | 0.00 | 2.08 |
| 152.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.063 | 0.000 | 9.752 | 0.00 | 6.24 |
| 153.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 9.770 | 0.00 | 0.27 |
| 153.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 9.770 | 0.00 | 1.04 |
| 153.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.064 | 0.000 | 9.770 | 0.00 | 3.12 |
| 154.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 9.788 | 0.00 | 0.27 |
| 154.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.064 | 0.000 | 9.788 | 0.00 | 1.04 |
| 154.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.064 | 0.000 | 9.788 | 0.00 | 3.12 |
| 156.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.065 | 0.000 | 9.824 | 0.00 | 0.55 |
| 156.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.065 | 0.000 | 9.824 | 0.00 | 2.08 |
| 156.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.065 | 0.000 | 9.824 | 0.00 | 6.24 |
| 158.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.066 | 0.000 | 9.860 | 0.00 | 0.55 |
| 158.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.066 | 0.000 | 9.860 | 0.00 | 2.08 |
| 158.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.066 | 0.000 | 9.860 | 0.00 | 6.24 |
| 160.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.067 | 0.000 | 9.896 | 0.00 | 0.55 |
| 160.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.067 | 0.000 | 9.896 | 0.00 | 2.08 |
| 160.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.067 | 0.000 | 9.896 | 0.00 | 6.24 |
| 162.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.068 | 0.000 | 9.931 | 0.00 | 0.55 |
| 162.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.068 | 0.000 | 9.931 | 0.00 | 2.08 |
| 162.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.068 | 0.000 | 9.931 | 0.00 | 6.24 |
| 163.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.069 | 0.000 | 9.948 | 0.00 | 0.27 |
| 163.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.069 | 0.000 | 9.948 | 0.00 | 1.04 |
| 163.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.069 | 0.000 | 9.948 | 0.00 | 3.12 |
| 164.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.070 | 0.000 | 9.966 | 0.00 | 0.27 |
| 164.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.070 | 0.000 | 9.966 | 0.00 | 1.04 |
| 164.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.070 | 0.000 | 9.966 | 0.00 | 3.12 |
| 166.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.071 | 0.000 | 10.000 | 0.00 | 0.55 |
| 166.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.071 | 0.000 | 10.000 | 0.00 | 2.08 |
| 166.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.071 | 0.000 | 10.000 | 0.00 | 6.24 |
| 168.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.072 | 0.000 | 10.035 | 0.00 | 0.55 |
| 168.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.072 | 0.000 | 10.035 | 0.00 | 2.08 |

Linear Appurtenance Segment Forces (Factored)

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 91

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 28

| Top Elev (ft) | Description | Wind Exposed | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | Ra | Cf Adjust Factor | qz (psf) | F X (lb) | Dead Load (lb) |
|----------------|---------------------|--------------|-------------|-------|--------------------|-------------|-------------|-------|------------------|----------|------------|----------------|
| 168.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.072 | 0.000 | 10.035 | 0.00 | 6.24 |
| 170.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.073 | 0.000 | 10.069 | 0.00 | 0.55 |
| 170.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.073 | 0.000 | 10.069 | 0.00 | 2.08 |
| 170.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.073 | 0.000 | 10.069 | 0.00 | 6.24 |
| 172.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.075 | 0.000 | 10.102 | 0.00 | 0.55 |
| 172.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.075 | 0.000 | 10.102 | 0.00 | 2.08 |
| 172.00 | 1 5/8" Coax | Yes | 2.00 | 0.000 | 1.98 | 0.33 | 0.00 | 0.075 | 0.000 | 10.102 | 0.00 | 6.24 |
| 173.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.076 | 0.000 | 10.119 | 0.00 | 0.27 |
| 173.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.076 | 0.000 | 10.119 | 0.00 | 1.04 |
| 173.00 | 1 5/8" Coax | Yes | 1.00 | 0.000 | 1.98 | 0.17 | 0.00 | 0.076 | 0.000 | 10.119 | 0.00 | 3.12 |
| 174.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.136 | 0.00 | 0.27 |
| 174.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.136 | 0.00 | 1.04 |
| 176.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.169 | 0.00 | 0.55 |
| 176.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.169 | 0.00 | 2.08 |
| 178.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.202 | 0.00 | 0.55 |
| 178.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.202 | 0.00 | 2.08 |
| 180.00 | Safety Cable | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.234 | 0.00 | 0.55 |
| 180.00 | Step bolts (ladder) | Yes | 2.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.234 | 0.00 | 2.08 |
| 181.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.251 | 0.00 | 0.27 |
| 181.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.251 | 0.00 | 1.04 |
| 182.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.267 | 0.00 | 0.27 |
| 182.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.267 | 0.00 | 1.04 |
| 183.00 | Safety Cable | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.283 | 0.00 | 0.27 |
| 183.00 | Step bolts (ladder) | Yes | 1.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 10.283 | 0.00 | 1.04 |
| Totals: | | | | | | | | | | | 0.0 | 780.0 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 92

Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 28

Dead Load Factor 1.00

Wind Load Factor 1.00



| 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 Sway (deg) | Rotation Twist (deg) | Stress Ratio |
|---------------|------------------|------------------|---------------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|---------------------|----------------------|--------------|
| 0.00 | -52.22 | -7.88 | 0.00 | -1019.0 | 0.00 | 1019.01 | 5190.16 | 2595.08 | 13702.9 | 6861.66 | 0.00 | 0.000 | 0.000 | 0.159 |
| 2.00 | -51.61 | -7.84 | 0.00 | -1003.2 | 0.00 | 1003.25 | 5174.50 | 2587.25 | 13560.7 | 6790.43 | 0.00 | -0.015 | 0.000 | 0.158 |
| 4.00 | -51.01 | -7.81 | 0.00 | -987.56 | 0.00 | 987.56 | 5158.51 | 2579.25 | 13418.2 | 6719.08 | 0.01 | -0.029 | 0.000 | 0.157 |
| 6.00 | -50.40 | -7.78 | 0.00 | -971.94 | 0.00 | 971.94 | 5142.18 | 2571.09 | 13275.4 | 6647.61 | 0.03 | -0.044 | 0.000 | 0.156 |
| 8.00 | -49.81 | -7.74 | 0.00 | -956.39 | 0.00 | 956.39 | 5125.52 | 2562.76 | 13132.5 | 6576.03 | 0.05 | -0.059 | 0.000 | 0.155 |
| 10.00 | -49.21 | -7.71 | 0.00 | -940.91 | 0.00 | 940.91 | 5108.53 | 2554.27 | 12989.4 | 6504.36 | 0.08 | -0.073 | 0.000 | 0.154 |
| 12.00 | -48.62 | -7.67 | 0.00 | -925.50 | 0.00 | 925.50 | 5091.21 | 2545.61 | 12846.0 | 6432.60 | 0.11 | -0.088 | 0.000 | 0.153 |
| 14.00 | -48.04 | -7.64 | 0.00 | -910.15 | 0.00 | 910.15 | 5073.56 | 2536.78 | 12702.6 | 6360.75 | 0.15 | -0.104 | 0.000 | 0.153 |
| 16.00 | -47.46 | -7.61 | 0.00 | -894.87 | 0.00 | 894.87 | 5055.57 | 2527.79 | 12559.0 | 6288.85 | 0.20 | -0.119 | 0.000 | 0.152 |
| 18.00 | -46.88 | -7.57 | 0.00 | -879.66 | 0.00 | 879.66 | 5037.25 | 2518.63 | 12415.3 | 6216.88 | 0.25 | -0.134 | 0.000 | 0.151 |
| 20.00 | -46.30 | -7.54 | 0.00 | -864.52 | 0.00 | 864.52 | 5018.60 | 2509.30 | 12271.4 | 6144.86 | 0.31 | -0.149 | 0.000 | 0.150 |
| 22.00 | -45.73 | -7.50 | 0.00 | -849.44 | 0.00 | 849.44 | 4999.62 | 2499.81 | 12127.5 | 6072.81 | 0.38 | -0.165 | 0.000 | 0.149 |
| 24.00 | -45.16 | -7.47 | 0.00 | -834.43 | 0.00 | 834.43 | 4980.31 | 2490.15 | 11983.6 | 6000.72 | 0.45 | -0.180 | 0.000 | 0.148 |
| 26.00 | -44.60 | -7.44 | 0.00 | -819.49 | 0.00 | 819.49 | 4960.66 | 2480.33 | 11839.6 | 5928.62 | 0.53 | -0.196 | 0.000 | 0.147 |
| 28.00 | -44.04 | -7.41 | 0.00 | -804.61 | 0.00 | 804.61 | 4940.68 | 2470.34 | 11695.6 | 5856.50 | 0.61 | -0.212 | 0.000 | 0.146 |
| 30.00 | -43.49 | -7.37 | 0.00 | -789.80 | 0.00 | 789.80 | 4920.37 | 2460.19 | 11551.6 | 5784.39 | 0.71 | -0.228 | 0.000 | 0.145 |
| 32.00 | -42.93 | -7.34 | 0.00 | -775.06 | 0.00 | 775.06 | 4899.73 | 2449.87 | 11407.6 | 5712.28 | 0.81 | -0.244 | 0.000 | 0.144 |
| 34.00 | -42.39 | -7.31 | 0.00 | -760.38 | 0.00 | 760.38 | 4878.76 | 2439.38 | 11263.6 | 5640.19 | 0.91 | -0.260 | 0.000 | 0.144 |
| 36.00 | -41.84 | -7.27 | 0.00 | -745.77 | 0.00 | 745.77 | 4857.45 | 2428.72 | 11119.7 | 5568.14 | 1.02 | -0.276 | 0.000 | 0.143 |
| 38.00 | -41.30 | -7.24 | 0.00 | -731.23 | 0.00 | 731.23 | 4835.81 | 2417.91 | 10975.9 | 5496.12 | 1.14 | -0.292 | 0.000 | 0.142 |
| 40.00 | -40.77 | -7.20 | 0.00 | -716.76 | 0.00 | 716.76 | 4813.84 | 2406.92 | 10832.2 | 5424.15 | 1.27 | -0.308 | 0.000 | 0.141 |
| 41.00 | -40.50 | -7.18 | 0.00 | -709.56 | 0.00 | 709.56 | 4802.73 | 2401.36 | 10760.3 | 5388.18 | 1.33 | -0.316 | 0.000 | 0.140 |
| 42.00 | -40.01 | -7.16 | 0.00 | -702.39 | 0.00 | 702.39 | 4791.54 | 2395.77 | 10688.5 | 5352.24 | 1.40 | -0.325 | 0.000 | 0.140 |
| 44.00 | -39.04 | -7.12 | 0.00 | -688.06 | 0.00 | 688.06 | 4768.90 | 2384.45 | 10545.1 | 5280.39 | 1.54 | -0.341 | 0.000 | 0.139 |
| 46.00 | -38.07 | -7.08 | 0.00 | -673.82 | 0.00 | 673.82 | 4745.94 | 2372.97 | 10401.7 | 5208.63 | 1.69 | -0.358 | 0.000 | 0.137 |
| 48.00 | -37.12 | -7.04 | 0.00 | -659.66 | 0.00 | 659.66 | 4759.60 | 2379.80 | 10486.7 | 5251.18 | 1.84 | -0.374 | 0.000 | 0.133 |
| 50.00 | -36.59 | -7.00 | 0.00 | -645.58 | 0.00 | 645.58 | 4736.50 | 2368.25 | 10343.5 | 5179.45 | 2.00 | -0.391 | 0.000 | 0.132 |
| 51.00 | -36.33 | -6.98 | 0.00 | -638.58 | 0.00 | 638.58 | 4724.82 | 2362.41 | 10271.9 | 5143.62 | 2.08 | -0.399 | 0.000 | 0.132 |
| 51.00 | -36.33 | -6.98 | 0.00 | -638.58 | 0.00 | 638.58 | 4064.30 | 2032.15 | 8835.99 | 4424.56 | 2.08 | -0.399 | 0.000 | 0.153 |
| 52.00 | -36.07 | -6.96 | 0.00 | -631.60 | 0.00 | 631.60 | 4053.20 | 2026.60 | 8772.35 | 4392.70 | 2.17 | -0.407 | 0.000 | 0.153 |
| 54.00 | -35.56 | -6.92 | 0.00 | -617.68 | 0.00 | 617.68 | 4030.83 | 2015.41 | 8645.34 | 4329.09 | 2.34 | -0.424 | 0.000 | 0.152 |
| 56.00 | -35.05 | -6.88 | 0.00 | -603.84 | 0.00 | 603.84 | 4008.20 | 2004.10 | 8518.66 | 4265.66 | 2.52 | -0.440 | 0.000 | 0.150 |
| 58.00 | -34.54 | -6.84 | 0.00 | -590.08 | 0.00 | 590.08 | 3985.33 | 1992.66 | 8392.33 | 4202.40 | 2.71 | -0.456 | 0.000 | 0.149 |
| 60.00 | -34.03 | -6.80 | 0.00 | -576.39 | 0.00 | 576.39 | 3962.20 | 1981.10 | 8266.38 | 4139.33 | 2.91 | -0.473 | 0.000 | 0.148 |
| 62.00 | -33.53 | -6.76 | 0.00 | -562.80 | 0.00 | 562.80 | 3938.82 | 1969.41 | 8140.81 | 4076.46 | 3.11 | -0.489 | 0.000 | 0.147 |
| 64.00 | -33.04 | -6.72 | 0.00 | -549.28 | 0.00 | 549.28 | 3915.19 | 1957.60 | 8015.64 | 4013.78 | 3.32 | -0.506 | 0.000 | 0.145 |
| 66.00 | -32.55 | -6.67 | 0.00 | -535.84 | 0.00 | 535.84 | 3891.31 | 1945.66 | 7890.88 | 3951.30 | 3.53 | -0.522 | 0.000 | 0.144 |
| 66.17 | -32.50 | -6.67 | 0.00 | -534.71 | 0.00 | 534.71 | 3889.27 | 1944.64 | 7880.29 | 3946.00 | 3.55 | -0.524 | 0.000 | 0.106 |
| 68.00 | -32.06 | -6.63 | 0.00 | -522.50 | 0.00 | 522.50 | 3867.19 | 1933.59 | 7766.55 | 3889.05 | 3.75 | -0.535 | 0.000 | 0.104 |
| 70.00 | -31.57 | -6.59 | 0.00 | -509.24 | 0.00 | 509.24 | 3842.81 | 1921.40 | 7642.66 | 3827.01 | 3.98 | -0.547 | 0.000 | 0.103 |
| 71.00 | -31.33 | -6.56 | 0.00 | -502.65 | 0.00 | 502.65 | 3830.52 | 1915.26 | 7580.89 | 3796.08 | 4.10 | -0.553 | 0.000 | 0.103 |
| 71.00 | -31.33 | -6.56 | 0.00 | -502.65 | 0.00 | 502.65 | 3467.89 | 1733.95 | 6863.13 | 3436.66 | 4.10 | -0.553 | 0.000 | 0.113 |
| 72.00 | -31.09 | -6.54 | 0.00 | -496.09 | 0.00 | 496.09 | 3456.29 | 1728.14 | 6806.46 | 3408.29 | 4.21 | -0.560 | 0.000 | 0.113 |
| 74.00 | -30.62 | -6.50 | 0.00 | -483.01 | 0.00 | 483.01 | 3432.92 | 1716.46 | 6693.50 | 3351.73 | 4.45 | -0.572 | 0.000 | 0.111 |
| 76.00 | -30.14 | -6.45 | 0.00 | -470.01 | 0.00 | 470.01 | 3409.33 | 1704.67 | 6581.05 | 3295.42 | 4.69 | -0.584 | 0.000 | 0.110 |
| 78.00 | -29.67 | -6.41 | 0.00 | -457.10 | 0.00 | 457.10 | 3385.54 | 1692.77 | 6469.11 | 3239.36 | 4.94 | -0.596 | 0.000 | 0.108 |
| 80.00 | -29.21 | -6.36 | 0.00 | -444.28 | 0.00 | 444.28 | 3361.54 | 1680.77 | 6357.71 | 3183.58 | 5.19 | -0.608 | 0.000 | 0.107 |
| 81.00 | -28.98 | -6.34 | 0.00 | -437.92 | 0.00 | 437.92 | 3349.46 | 1674.73 | 6302.21 | 3155.79 | 5.32 | -0.614 | 0.000 | 0.106 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |
| | | Page: 93 |



| | | | | | | | | | | | | | | |
|--------|--------|-------|------|---------|------|--------|---------|---------|---------|---------|-------|--------|-------|-------|
| 81.00 | -28.98 | -6.34 | 0.00 | -437.92 | 0.00 | 437.92 | 2964.88 | 1482.44 | 5593.85 | 2801.08 | 5.32 | -0.614 | 0.000 | 0.100 |
| 82.00 | -28.78 | -6.32 | 0.00 | -431.58 | 0.00 | 431.58 | 2956.03 | 1478.01 | 5548.33 | 2778.29 | 5.45 | -0.621 | 0.000 | 0.112 |
| 84.00 | -28.38 | -6.28 | 0.00 | -418.94 | 0.00 | 418.94 | 2938.12 | 1469.06 | 5457.44 | 2732.78 | 5.71 | -0.634 | 0.000 | 0.110 |
| 85.00 | -28.18 | -6.26 | 0.00 | -412.66 | 0.00 | 412.66 | 2929.07 | 1464.54 | 5412.08 | 2710.06 | 5.85 | -0.641 | 0.000 | 0.109 |
| 86.00 | -27.83 | -6.23 | 0.00 | -406.40 | 0.00 | 406.40 | 2919.96 | 1459.98 | 5366.77 | 2687.37 | 5.98 | -0.648 | 0.000 | 0.107 |
| 88.00 | -27.14 | -6.19 | 0.00 | -393.94 | 0.00 | 393.94 | 2901.53 | 1450.76 | 5276.32 | 2642.08 | 6.26 | -0.662 | 0.000 | 0.105 |
| 90.00 | -26.45 | -6.14 | 0.00 | -381.56 | 0.00 | 381.56 | 2882.84 | 1441.42 | 5186.12 | 2596.92 | 6.54 | -0.675 | 0.000 | 0.103 |
| 91.00 | -26.11 | -6.11 | 0.00 | -375.43 | 0.00 | 375.43 | 2898.35 | 1449.17 | 5260.87 | 2634.34 | 6.68 | -0.682 | 0.000 | 0.104 |
| 92.00 | -25.91 | -6.09 | 0.00 | -369.31 | 0.00 | 369.31 | 2889.01 | 1444.51 | 5215.76 | 2611.76 | 6.82 | -0.689 | 0.000 | 0.101 |
| 93.83 | -25.56 | -6.05 | 0.00 | -358.16 | 0.00 | 358.16 | 2871.76 | 1435.88 | 5133.38 | 2570.50 | 7.09 | -0.701 | 0.000 | 0.099 |
| 93.83 | -25.56 | -6.05 | 0.00 | -358.16 | 0.00 | 358.16 | 2871.76 | 1435.88 | 5133.38 | 2570.50 | 7.09 | -0.701 | 0.000 | 0.099 |
| 94.00 | -25.53 | -6.05 | 0.00 | -357.14 | 0.00 | 357.14 | 2870.15 | 1435.07 | 5125.73 | 2566.68 | 7.11 | -0.702 | 0.000 | 0.148 |
| 96.00 | -25.15 | -6.01 | 0.00 | -345.04 | 0.00 | 345.04 | 2851.02 | 1425.51 | 5035.98 | 2521.73 | 7.41 | -0.721 | 0.000 | 0.146 |
| 98.00 | -24.77 | -5.97 | 0.00 | -333.02 | 0.00 | 333.02 | 2831.62 | 1415.81 | 4946.52 | 2476.93 | 7.72 | -0.741 | 0.000 | 0.143 |
| 100.00 | -24.39 | -5.93 | 0.00 | -321.08 | 0.00 | 321.08 | 2811.97 | 1405.98 | 4857.35 | 2432.29 | 8.03 | -0.760 | 0.000 | 0.141 |
| 102.00 | -24.02 | -5.89 | 0.00 | -309.23 | 0.00 | 309.23 | 2792.05 | 1396.03 | 4768.51 | 2387.80 | 8.36 | -0.779 | 0.000 | 0.138 |
| 104.00 | -23.65 | -5.84 | 0.00 | -297.46 | 0.00 | 297.46 | 2771.87 | 1385.94 | 4680.00 | 2343.48 | 8.69 | -0.798 | 0.000 | 0.135 |
| 106.00 | -23.28 | -5.81 | 0.00 | -285.77 | 0.00 | 285.77 | 2751.43 | 1375.71 | 4591.84 | 2299.33 | 9.02 | -0.818 | 0.000 | 0.133 |
| 108.00 | -22.92 | -5.77 | 0.00 | -274.16 | 0.00 | 274.16 | 2730.72 | 1365.36 | 4504.04 | 2255.37 | 9.37 | -0.837 | 0.000 | 0.130 |
| 110.00 | -22.56 | -5.73 | 0.00 | -262.63 | 0.00 | 262.63 | 2709.75 | 1354.88 | 4416.62 | 2211.59 | 9.73 | -0.855 | 0.000 | 0.127 |
| 111.17 | -22.35 | -5.70 | 0.00 | -255.92 | 0.00 | 255.92 | 2697.36 | 1348.68 | 4365.66 | 2186.08 | 9.94 | -0.866 | 0.000 | 0.100 |
| 112.00 | -22.20 | -5.69 | 0.00 | -251.19 | 0.00 | 251.19 | 2688.52 | 1344.26 | 4329.60 | 2168.02 | 10.09 | -0.873 | 0.000 | 0.099 |
| 114.00 | -21.85 | -5.65 | 0.00 | -239.81 | 0.00 | 239.81 | 2667.03 | 1333.51 | 4242.98 | 2124.64 | 10.46 | -0.887 | 0.000 | 0.096 |
| 115.00 | -21.67 | -5.63 | 0.00 | -234.17 | 0.00 | 234.17 | 2656.18 | 1328.09 | 4199.83 | 2103.04 | 10.64 | -0.895 | 0.000 | 0.093 |
| 115.00 | -21.67 | -5.63 | 0.00 | -234.17 | 0.00 | 234.17 | 1951.15 | 975.57 | 3095.05 | 1549.82 | 10.64 | -0.895 | 0.000 | 0.101 |
| 116.00 | -21.52 | -5.61 | 0.00 | -228.54 | 0.00 | 228.54 | 1944.57 | 972.29 | 3065.67 | 1535.11 | 10.83 | -0.902 | 0.000 | 0.118 |
| 118.00 | -21.23 | -5.57 | 0.00 | -217.33 | 0.00 | 217.33 | 1931.24 | 965.62 | 3006.98 | 1505.73 | 11.21 | -0.918 | 0.000 | 0.114 |
| 120.00 | -20.94 | -5.53 | 0.00 | -206.19 | 0.00 | 206.19 | 1917.63 | 958.82 | 2948.42 | 1476.40 | 11.60 | -0.935 | 0.000 | 0.110 |
| 122.00 | -20.64 | -5.49 | 0.00 | -195.14 | 0.00 | 195.14 | 1903.77 | 951.88 | 2889.98 | 1447.14 | 12.00 | -0.950 | 0.000 | 0.106 |
| 123.83 | -20.38 | -5.45 | 0.00 | -185.11 | 0.00 | 185.11 | 1890.85 | 945.43 | 2836.64 | 1420.43 | 12.36 | -0.965 | 0.000 | 0.102 |
| 123.83 | -20.38 | -5.45 | 0.00 | -185.11 | 0.00 | 185.11 | 1890.85 | 945.43 | 2836.64 | 1420.43 | 12.36 | -0.965 | 0.000 | 0.102 |
| 124.00 | -20.36 | -5.45 | 0.00 | -184.18 | 0.00 | 184.18 | 1889.64 | 944.82 | 2831.69 | 1417.95 | 12.40 | -0.966 | 0.000 | 0.141 |
| 126.00 | -20.07 | -5.41 | 0.00 | -173.29 | 0.00 | 173.29 | 1875.25 | 937.63 | 2773.56 | 1388.84 | 12.81 | -0.987 | 0.000 | 0.136 |
| 128.00 | -19.79 | -5.37 | 0.00 | -162.47 | 0.00 | 162.47 | 1860.60 | 930.30 | 2715.62 | 1359.83 | 13.23 | -1.007 | 0.000 | 0.130 |
| 130.00 | -19.50 | -5.33 | 0.00 | -151.74 | 0.00 | 151.74 | 1845.69 | 922.84 | 2657.86 | 1330.91 | 13.65 | -1.027 | 0.000 | 0.125 |
| 132.00 | -19.04 | -5.29 | 0.00 | -141.07 | 0.00 | 141.07 | 1830.51 | 915.25 | 2600.31 | 1302.09 | 14.09 | -1.047 | 0.000 | 0.119 |
| 134.00 | -18.57 | -5.24 | 0.00 | -130.50 | 0.00 | 130.50 | 1815.07 | 907.53 | 2542.99 | 1273.39 | 14.53 | -1.065 | 0.000 | 0.113 |
| 135.00 | -18.34 | -5.22 | 0.00 | -125.25 | 0.00 | 125.25 | 1823.79 | 911.89 | 2575.21 | 1289.52 | 14.75 | -1.075 | 0.000 | 0.107 |
| 136.00 | -18.20 | -5.21 | 0.00 | -120.03 | 0.00 | 120.03 | 1816.04 | 908.02 | 2546.57 | 1275.18 | 14.98 | -1.084 | 0.000 | 0.104 |
| 138.00 | -17.93 | -5.17 | 0.00 | -109.62 | 0.00 | 109.62 | 1800.35 | 900.18 | 2489.47 | 1246.58 | 15.44 | -1.100 | 0.000 | 0.098 |
| 140.00 | -17.66 | -5.13 | 0.00 | -99.29 | 0.00 | 99.29 | 1784.41 | 892.20 | 2432.62 | 1218.12 | 15.90 | -1.116 | 0.000 | 0.091 |
| 142.00 | -17.39 | -5.09 | 0.00 | -89.03 | 0.00 | 89.03 | 1768.19 | 884.10 | 2376.04 | 1189.79 | 16.37 | -1.130 | 0.000 | 0.085 |
| 143.00 | -14.39 | -4.02 | 0.00 | -83.95 | 0.00 | 83.95 | 1759.99 | 879.99 | 2347.86 | 1175.68 | 16.61 | -1.137 | 0.000 | 0.080 |
| 144.00 | -14.27 | -4.00 | 0.00 | -79.93 | 0.00 | 79.93 | 1751.72 | 875.86 | 2319.75 | 1161.60 | 16.85 | -1.144 | 0.000 | 0.077 |
| 146.00 | -14.04 | -3.96 | 0.00 | -71.94 | 0.00 | 71.94 | 1734.98 | 867.49 | 2263.76 | 1133.56 | 17.33 | -1.157 | 0.000 | 0.072 |
| 148.00 | -13.80 | -3.92 | 0.00 | -64.02 | 0.00 | 64.02 | 1717.98 | 858.99 | 2208.08 | 1105.68 | 17.82 | -1.169 | 0.000 | 0.066 |
| 150.00 | -13.57 | -3.88 | 0.00 | -56.18 | 0.00 | 56.18 | 1700.72 | 850.36 | 2152.74 | 1077.97 | 18.31 | -1.180 | 0.000 | 0.060 |
| 152.00 | -13.35 | -3.84 | 0.00 | -48.42 | 0.00 | 48.42 | 1683.20 | 841.60 | 2097.74 | 1050.43 | 18.81 | -1.190 | 0.000 | 0.054 |
| 153.00 | -10.06 | -2.64 | 0.00 | -44.58 | 0.00 | 44.58 | 1674.33 | 837.17 | 2070.37 | 1036.72 | 19.06 | -1.195 | 0.000 | 0.049 |
| 154.00 | -9.96 | -2.62 | 0.00 | -41.94 | 0.00 | 41.94 | 1665.41 | 832.70 | 2043.10 | 1023.07 | 19.31 | -1.199 | 0.000 | 0.047 |
| 156.00 | -9.76 | -2.58 | 0.00 | -36.70 | 0.00 | 36.70 | 1647.36 | 823.68 | 1988.83 | 995.90 | 19.81 | -1.208 | 0.000 | 0.043 |
| 158.00 | -8.07 | -2.27 | 0.00 | -31.54 | 0.00 | 31.54 | 1629.04 | 814.52 | 1934.96 | 968.92 | 20.32 | -1.215 | 0.000 | 0.038 |
| 160.00 | -7.88 | -2.24 | 0.00 | -26.99 | 0.00 | 26.99 | 1610.47 | 805.23 | 1881.50 | 942.15 | 20.83 | -1.222 | 0.000 | 0.034 |
| 162.00 | -7.69 | -2.20 | 0.00 | -22.52 | 0.00 | 22.52 | 1591.63 | 795.82 | 1828.46 | 915.59 | 21.34 | -1.228 | 0.000 | 0.029 |
| 163.00 | -5.89 | -1.79 | 0.00 | -20.32 | 0.00 | 20.32 | 1582.11 | 791.06 | 1802.10 | 902.39 | 21.60 | -1.231 | 0.000 | 0.026 |
| 164.00 | -5.80 | -1.77 | 0.00 | -18.53 | 0.00 | 18.53 | 1572.53 | 786.27 | 1775.86 | 889.25 | 21.86 | -1.234 | 0.000 | 0.025 |
| 166.00 | -5.62 | -1.74 | 0.00 | -14.99 | 0.00 | 14.99 | 1553.17 | 776.58 | 1723.71 | 863.13 | 22.38 | -1.238 | 0.000 | 0.021 |

Calculated Forces

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |
| | | Page: 94 |



| | | | | | | | | | | | | | | |
|--------|-------|-------|------|--------|------|-------|---------|--------|---------|--------|-------|--------|-------|-------|
| 168.00 | -5.44 | -1.70 | 0.00 | -11.52 | 0.00 | 11.52 | 1533.54 | 766.77 | 1672.03 | 837.26 | 22.90 | -1.242 | 0.000 | 0.017 |
| 170.00 | -5.27 | -1.66 | 0.00 | -8.12 | 0.00 | 8.12 | 1513.65 | 756.83 | 1620.83 | 811.62 | 23.42 | -1.245 | 0.000 | 0.013 |
| 172.00 | -5.10 | -1.63 | 0.00 | -4.80 | 0.00 | 4.80 | 1493.50 | 746.75 | 1570.13 | 786.23 | 23.94 | -1.247 | 0.000 | 0.010 |
| 173.00 | -2.18 | -0.44 | 0.00 | -3.17 | 0.00 | 3.17 | 1483.33 | 741.66 | 1544.98 | 773.64 | 24.20 | -1.248 | 0.000 | 0.006 |
| 174.00 | -2.11 | -0.43 | 0.00 | -2.73 | 0.00 | 2.73 | 1473.09 | 736.54 | 1519.95 | 761.10 | 24.46 | -1.248 | 0.000 | 0.005 |
| 176.00 | -1.98 | -0.39 | 0.00 | -1.87 | 0.00 | 1.87 | 1452.41 | 726.20 | 1470.30 | 736.24 | 24.99 | -1.249 | 0.000 | 0.004 |
| 178.00 | -1.84 | -0.36 | 0.00 | -1.09 | 0.00 | 1.09 | 1427.85 | 713.93 | 1417.60 | 709.85 | 25.51 | -1.250 | 0.000 | 0.003 |
| 180.00 | -1.71 | -0.33 | 0.00 | -0.37 | 0.00 | 0.37 | 1400.09 | 700.05 | 1362.74 | 682.38 | 26.03 | -1.250 | 0.000 | 0.002 |
| 180.00 | -1.71 | -0.33 | 0.00 | -0.37 | 0.00 | 0.37 | 678.42 | 339.21 | 662.23 | 396.30 | 26.03 | -1.250 | 0.000 | 0.003 |
| 181.00 | -0.14 | -0.03 | 0.00 | -0.05 | 0.00 | 0.05 | 678.42 | 339.21 | 662.23 | 396.30 | 26.30 | -1.250 | 0.000 | 0.000 |
| 182.00 | -0.07 | -0.02 | 0.00 | -0.02 | 0.00 | 0.02 | 678.42 | 339.21 | 662.23 | 396.30 | 26.56 | -1.250 | 0.000 | 0.000 |
| 183.00 | 0.00 | -0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 678.42 | 339.21 | 662.23 | 396.30 | 26.82 | -1.250 | 0.000 | 0.000 |

Final Analysis Summary

| | | |
|---------------------------------|-----------------------------------|-------------------------|
| Structure: CT01002-S-SBA | Code: EIA/TIA-222-G | 7/27/2021 |
| Site Name: Waterford | Exposure: B | |
| Height: 183.00 (ft) | Crest Height: 0.00 | |
| Base Elev: 0.000 (ft) | Site Class: D - Stiff Soil | |
| Gh: 1.1 | Topography: 1 | Struct Class: II |



Page: 95

Reactions

| Load Case | Shear FX (kips) | Shear FZ (kips) | Axial FY (kips) | Moment MX (ft-kips) | Moment MY (ft-kips) | Moment MZ (ft-kips) |
|----------------------------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|---------------------------|
| 1.2D + 1.6W 105 mph Wind | 38.6 | 0.00 | 62.64 | 0.00 | 0.00 | 5031.32 |
| 0.9D + 1.6W 105 mph Wind | 38.6 | 0.00 | 46.97 | 0.00 | 0.00 | 4964.13 |
| 1.2D + 1.0Di + 1.0Wi 50 mph Wind | 9.5 | 0.00 | 98.45 | 0.00 | 0.00 | 1251.63 |
| 1.2D + 1.0E | 2.0 | 0.00 | 62.67 | 0.00 | 0.00 | 269.21 |
| 0.9D + 1.0E | 2.0 | 0.00 | 47.00 | 0.00 | 0.00 | 265.36 |
| 1.0D + 1.0W 60 mph Wind | 7.9 | 0.00 | 52.22 | 0.00 | 0.00 | 1019.01 |

Max Stresses

| Load Case | 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) | Elev (ft) | Stress Ratio |
|----------------------------------|------------------------|------------------------|---------------------------|-----------------------|-----------------------|----------------------------------|---------------------|---------------------|------------------------|------------------------|--------------|-----------------|
| 1.2D + 1.6W 105 mph Wind | -62.64 | -38.62 | 0.00 | -5031.3 | 0.00 | -5031.3 | 5190.16 | 2595.0 | 13702.9 | 6861.66 | 0.00 | 0.746 |
| 0.9D + 1.6W 105 mph Wind | -46.97 | -38.61 | 0.00 | -4964.1 | 0.00 | -4964.1 | 5190.16 | 2595.0 | 13702.9 | 6861.66 | 0.00 | 0.733 |
| 1.2D + 1.0Di + 1.0Wi 50 mph Wind | -98.45 | -9.53 | 0.00 | -1251.6 | 0.00 | -1251.6 | 5190.16 | 2595.0 | 13702.9 | 6861.66 | 0.00 | 0.201 |
| 1.2D + 1.0E | -24.53 | -1.45 | 0.00 | -66.73 | 0.00 | -66.73 | 1889.64 | 944.82 | 2831.69 | 1417.95 | 124.00 | 0.060 |
| 0.9D + 1.0E | -18.39 | -1.41 | 0.00 | -65.47 | 0.00 | -65.47 | 1889.64 | 944.82 | 2831.69 | 1417.95 | 124.00 | 0.056 |
| 1.0D + 1.0W 60 mph Wind | -52.22 | -7.88 | 0.00 | -1019.0 | 0.00 | -1019.0 | 5190.16 | 2595.0 | 13702.9 | 6861.66 | 0.00 | 0.159 |

Additional Steel Summary

| Elev From (ft) | Elev To (ft) | Member | Intermediate Connectors | | | Lower Termination | | | | Upper Termination | | | | Max Member | | | |
|----------------------|--------------------|----------------------------|----------------------------|--------------|---------------------|-------------------|---------------------|-------------|---------------|-------------------|---------------------|-------------|---------------|--------------|---------------------|---------------------|-------|
| | | | VQ/I (lb/in) | Vu (kips) | phi Vn (kips) | MQ/I (kips) | phi Vn (kips) | Num Reqd | Num Actual | MQ/I (kips) | phi Vn (kips) | Num Reqd | Num Actual | Pu (kips) | phi Pn (kips) | phi Tn (kips) | Ratio |
| 66.2 | 93.8 | (6) PLT-C6x10.5(1.5" Hole) | 142.9 | 0.00 | 25.3 | 106.1 | 25.3 | 5 | 0 | 100.3 | 25.3 | 4 | 0 | 111.29 | 180.2 | 155.36 | 0.716 |
| 111.2 | 123.8 | (3) PLT-C6x10.5(1.5" Hole) | 248.4 | 0.00 | 25.3 | 100.0 | 25.3 | 4 | 0 | 101.4 | 25.3 | 5 | 0 | 114.67 | 180.2 | 155.36 | 0.738 |



Monopole Mat Foundation Design

Date

7/27/2021

| | | | |
|-----------------------|---------------|--------------------------------|-----------|
| Customer Name: | Verizon | EIA/TIA Standard: | EIA-222-G |
| Site Name: | | Structure Height (Ft.): | 183 |
| Site Number: | CT01002-S-SBA | Engineer Name: | T. Alajaj |
| Engr. Number: | 111578 | Engineer Login ID: | |

Foundation Info Obtained from:

Mapping Operation

Structure Type:

Monopole

Analysis or Design?

Analysis

Base Reactions (Factored):

| | | | |
|----------------------|------|---------------------|--------|
| Axial Load (Kips): | 62.6 | Shear Force (Kips): | 38.6 |
| Uplift Force (Kips): | 0.0 | Moment (Kips-ft): | 5031.3 |

Allowable overstress %: 5.0%

Foundation Geometries:

| | | | |
|--------------------------|------|--------------------------|------|
| | | Mods required -Yes/No ?: | No |
| Diameter of Pier (ft.): | 8.0 | Depth of Base BG (ft.): | 8.0 |
| Pier Height A. G. (ft.): | 0.25 | Thickness of Pad (ft): | 4.00 |
| Length of Pad (ft.): | 32 | Width of Pad (ft.): | 32 |

| | | | |
|--------------------------|------|--------------------------|------|
| Final Length of pad (ft) | 32.0 | Final width of pad (ft): | 32.0 |
|--------------------------|------|--------------------------|------|

Material Properties and Rebar Info:

| | | | | |
|--------------------------|------|---------------------------|-------|-----|
| Concrete Strength (psi): | 4000 | Steel Elastic Modulus: | 29000 | ksi |
| Vertical bar yield (ksi) | 60 | Tie steel yield (ksi): | 60 | |
| Vertical Rebar Size #: | 8 | Tie / Stirrup Size #: | 4 | |
| Qty. of Vertical Rebars: | 96 | Tie Spacing (in): | 12.0 | |
| Pad Rebar Yield (Ksi): | 60 | Pad Steel Rebar Size (#): | 8 | |
| Concrete Cover (in.): | 3 | Unit Weight of Concrete: | 150.0 | pcf |

Rebar at the bottom of the concrete pad:

| | | | |
|---------------------------|----|---------------------------|----|
| Qty. of Rebar in Pad (L): | 43 | Qty. of Rebar in Pad (W): | 43 |
|---------------------------|----|---------------------------|----|

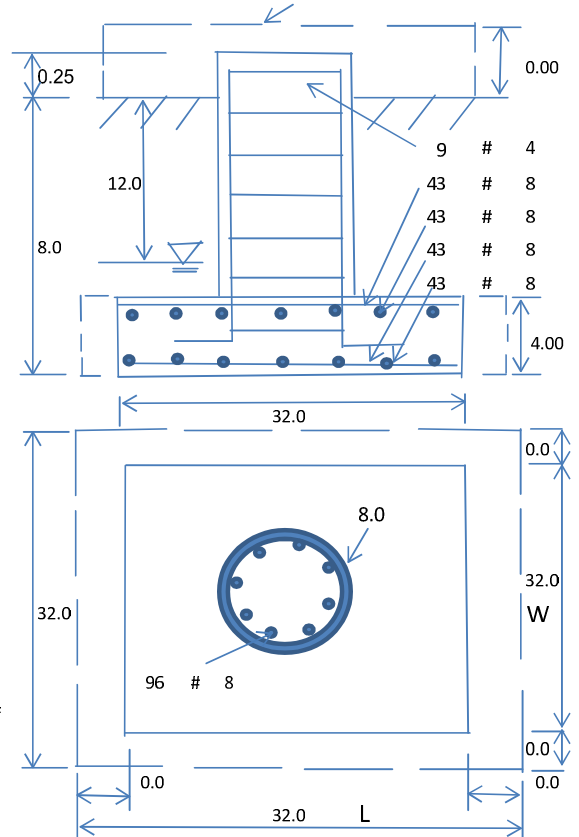
Rebar at the top of the concrete pad:

| | | | |
|---------------------------|----|---------------------------|----|
| Qty. of Rebar in Pad (L): | 43 | Qty. of Rebar in Pad (W): | 43 |
|---------------------------|----|---------------------------|----|

Apply 1.35 factor for e/w Per G: 1.35

Soil Design Parameters:

| | | | | | | |
|--------------------------------------|-------|--|------|-----|--------------------------|----|
| Soil Unit Weight (pcf): | 100.0 | Soil Buoyant Weight: | 50.0 | Pcf | | |
| Water Table B.G.S. (ft): | 12.0 | Unit Weight of Water: | 62.4 | pcf | Angle from Top of Pad: | 30 |
| Ultimate Bearing Pressure (psf): | 10000 | Ultimate Skin Friction: | 0 | Psf | Angle from Bottm of Pad: | 25 |
| Consider Friction for O.T.M. (Y/N): | No | Consider Friction for bearing (Y/N): | No | | Angle from Bottm of Pad: | 25 |
| Consider soil hor. resist. for OTM.: | Yes | Reduction factor on the maximum soil bearing pressure: | 1.00 | | | |



Foundation Analysis and Design:

| | | | |
|--|---------|--|---------|
| Uplift Strength Reduction Factor: | 0.75 | Compression Strength Reduction Factor: | 0.75 |
| Total Dry Soil Volume (cu. Ft.): | 3894.94 | Total Dry Soil Weight (Kips): | 389.49 |
| Total Buoyant Soil Volume (cu. Ft.): | 0.00 | Total Buoyant Soil Weight (Kips): | 0.00 |
| Total Effective Soil Weight (Kips): | 389.49 | Weight from the Concrete Block at Top (K): | 0.00 |
| Total Dry Concrete Volume (cu. Ft.): | 4309.63 | Total Dry Concrete Weight (Kips): | 646.44 |
| Total Buoyant Concrete Volume (cu. Ft.): | 0.00 | Total Buoyant Concrete Weight (Kips): | 0.00 |
| Total Effective Concrete Weight (Kips): | 646.44 | Total Vertical Load on Base (Kips): | 1098.54 |

Check Soil Capacities:

| | | | | | |
|--|---------|--|------|------|-----|
| Calculated Maxium Net Soil Pressure under the base (psf): | 1865 | < Allowable Factored Soil Bearing (psf): | 7500 | 0.25 | OK! |
| Allowable Foundation Overturning Resistance (kips-ft.): | 15919.1 | > Design Factored Momont (kips-ft): | 4979 | 0.31 | OK! |
| Factor of Safety Against Overturning (O. R. Moment/Design Moment): | 3.20 | | | | OK! |

Load/
Capacity
Ratio

Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):

Strength reduction factor (Axial compression):

(1) Concrete Pier:

- Vertical Steel Rebar Area (sq. in./each):
- Calculated Moment Capacity (Mn,Kips-Ft):
- Calculated Shear Capacity (Kips):
- Calculated Tension Capacity (Tn, Kips):
- Calculated Compression Capacity (Pn, Kips):
- Moment & Axial Strength Combination:
- Pier Reinforcement Ratio:

(2).Concrete Pad:

- One-Way Design Shear Capacity (L-Direction, Kips):
- One-Way Design Shear Capacity (W-Direction, Kips):
- One-Way Design Shear Capacity (Corner-Corner, Kips):
- Lower Steel Pad Reinforcement Ratio (L-Direct.):
- Lower Steel Pad Moment Capacity (L-Direction, Kips-ft):
- Lower Steel Pad Moment Capacity (W-Direction, Kips-ft):
- Lower Steel Pad Moment Capacity (Corner-Corner, K-ft):
- Upper Steel Pad Reinforcement Ratio (L-Direct.):
- Upper Steel Pad Moment Capacity (L-Direc, Kips-ft):
- Upper Steel Pad Moment Capacity (W-Direc, Kips-ft):
- Upper Steel Pad Moment Capacity (Corner-Corner, K-ft):

(3).Check Punching Shear Capacity due to Moment in the Pier:

- Moment transferred by punching shear:
- Max. factored shear stress $v_{u,AB}$
- Max. factored shear stress v_u

Strength reduction factor (Shear):

Wind Load Factor on Concrete Design:

- Tie / Stirrup Area (sq. in./each):
- > Design Factored Moment (Mu, Kips-
- > Design Factored Shear (Kips):
- > Design Factored Tension (Tu Kips):
- > Design Factored Axial Load (Pu Kips):

OK! Check Tie Spacing (Design/Required):
Reinforcement Ratio is satisfied per ACI

ad
Capacity
Ratio

- One-Way Factored Shear (L-D, Kips): 316.5
- One-Way Factored Shear (W-D., Kips)
- One-Way Factored Shear (C-C, Kips): 284.7
- Lower Steel Pad Reinf. Ratio (W-Direc
- Moment at Bottom (L-Dir. K-Ft):
- Moment at Bottom (W-Dir. K-Ft):
- Moment at Bottom (C-C Dir. K-Ft): 3414.7
- Upper Steel Reinf. Ratio (W-Dir.):
- Moment at the top (L-Dir K-Ft):
- Moment at the top (W-Dir K-Ft):
- Moment at the top (C-C Dir. K-Ft):

2012.5

k-ft.

Max. factored shear stress $v_{u,CD}$

Psi

Psi

Factored shear Strength ϕv_n

Psi

Psi

Check Usage of Punching Shear Capacity:

OK!



Maser Consulting Connecticut
2000 Midlantic Drive Suite 100
Mt. Laurel, NJ 08054
856.797.0412
greg.dulnik@colliersengineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10050208
Maser Consulting Connecticut Project #: 20777644A

April 16, 2021

Site Information

Site ID: 469183-VZW / Montville 2 CT
Site Name: Montville 2 CT
Carrier Name: Verizon Wireless
Address: 45 Fargo Rd
Montville, Connecticut 06385
New London County
Latitude: 41.388987°
Longitude: -72.169800°

Structure Information

Tower Type: 190-Ft Monopole
Mount Type: 14.50-Ft T-Arm

FUZE ID # 16271977

Analysis Results

T-Arm: 53.9 % Pass

***Contractor PMI Requirements:

Included at the end of this MA report

Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings



Digitally signed by Taqi Khawaja-Ghulam
Date: 2021.04.16 16:48:44 -0400

Report Prepared By: Selene Chen

Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

| Document Type | Remarks |
|-----------------------------------|--|
| Radio Frequency Data Sheet (RFDS) | Verizon RFDS Site ID: 324408, dated February 11, 2021 |
| Mount Mapping Report | Hudson Design Group LLC., Site ID: 469183, dated February 9, 2021 |
| Mount Analysis Report | Maser Consulting Connecticut, Project #: 20777644A, dated March 2, 2021 |
| Mount Modification Drawings | Maser Consulting Connecticut, Project #: 20777644A, dated April 16, 2021 |

Analysis Criteria:

| | | |
|-------------------------|--|----------|
| Codes and Standards: | ANSI/TIA-222-H | |
| Wind Parameters: | Basic Wind Speed (Ultimate 3-sec. Gust), | 126 mph |
| | Ice Wind Speed (3-sec. Gust): | 50 mph |
| | Design Ice Thickness: | 1.00 in |
| | Risk Category: | II |
| | Exposure Category: | B |
| | Topographic Category: | 1 |
| | Topographic Feature Considered: | N/A |
| | Topographic Method: | N/A |
| | Ground Elevation Factor, K_e : | 0.989 |
| Seismic Parameters: | S _s : | 0.197 |
| | S ₁ : | 0.053 |
| Maintenance Parameters: | Wind Speed (3-sec. Gust): | 30 mph |
| | Maintenance Live Load, L _v : | 250 lbs. |
| | Maintenance Live Load, L _m : | 500 lbs. |
| Analysis Software: | RISA-3D (V17) | |

Final Loading Configuration:

The following equipment has been considered for the analysis of the mounts:

| Mount Elevation (ft) | Equipment Elevation (ft) | Quantity | Manufacturer | Model | Status |
|----------------------|--------------------------|----------|----------------|-------|----------|
| | | | Commscope | | Added |
| | | | Samsung | | |
| | | | Commscope | | |
| | | | Samsung | | |
| | | | Samsung | | |
| | | | Amphenol Antel | | Retained |
| | | | | | |
| | | | | | |
| | | | Raycap | | |

* Equipment to be flush mounted directly to the Monopole. They are not mounted on T-Arm mounts and are not included in this mount analysis.

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325

8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.

Analysis Results:

| Component | Utilization % | Pass/Fail |
|----------------------------|---------------|-------------|
| <i>Angled Connection</i> | <i>41.5%</i> | <i>Pass</i> |
| <i>Antenna Pipe</i> | <i>50.6%</i> | <i>Pass</i> |
| <i>Face Horizontal</i> | <i>53.9%</i> | <i>Pass</i> |
| <i>Standoff Horizontal</i> | <i>30.1%</i> | <i>Pass</i> |
| <i>Mast Pipe</i> | <i>27.9%</i> | <i>Pass</i> |
| <i>Inner Standoff</i> | <i>11.9%</i> | <i>Pass</i> |
| <i>Standoff Plate</i> | <i>39.8%</i> | <i>Pass</i> |
| <i>Kicker</i> | <i>15.2%</i> | <i>Pass</i> |
| <i>Pipe Connector</i> | <i>33.1%</i> | <i>Pass</i> |
| <i>Connection Check</i> | <i>22.4%</i> | <i>Pass</i> |

| | |
|---|--------------|
| Structure Rating – (Controlling Utilization of all Components) | 53.9% |
|---|--------------|

Recommendation:

The existing mount will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

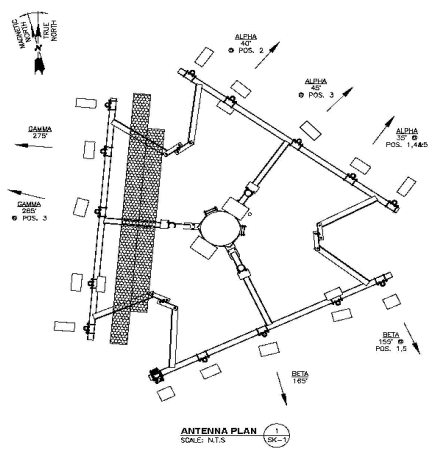
Attachments:

- Mount Photos
- Mount Mapping Report (for reference only)
- Analysis Calculations
- Contractor Required PMI Report Deliverables**
- Antenna Placement Diagrams
- TIA Adoption and Wind Speed Usage Letter

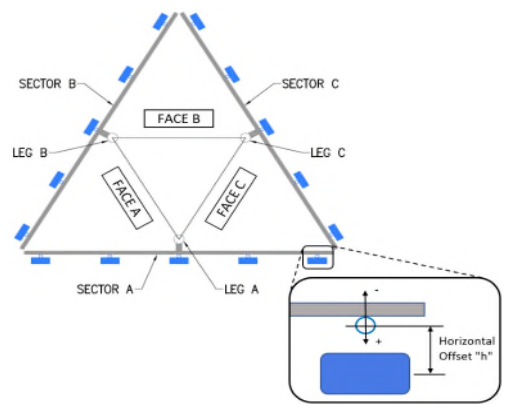


| | | | |
|----------------------------|--|-------------------------------|----------|
| | Antenna Mount Mapping Form (PATENT PENDING) | | FCC # |
| | | | 1201279 |
| Tower Owner: | SBA | Mapping Date: | 2/9/2021 |
| Site Name: | Montville 2 CT | Tower Type: | Monopole |
| Site Number or ID: | 469183 | Tower Height (Ft.): | 190 |
| Mapping Contractor: | Hudson Design Group LLC | Mount Elevation (Ft.): | 173.2 |

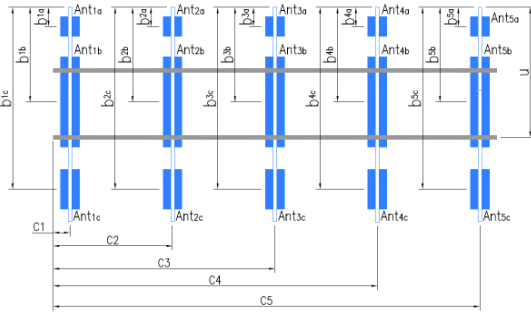
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.



| Mount Pipe Configuration and Geometries [Unit = Inches] | | | | | | | | |
|--|--------------------------|-------------------------------|--------------------------------------|---|--------------------------|-------------------------------|--------------------------------------|----|
| Sector / Position | Mount Pipe Size & Length | Vertical Offset Dimension "U" | Horizontal Offset "C1, C2, C3, etc." | Sector / Position | Mount Pipe Size & Length | Vertical Offset Dimension "U" | Horizontal Offset "C1, C2, C3, etc." | |
| A1 | PIPE 2" STD. X 60" LONG | 48.00 | 8.00 | C1 | PIPE 2" STD. X 60" LONG | 48.00 | 8.00 | |
| A2 | PIPE 2" STD. X 60" LONG | 48.00 | 40.00 | C2 | PIPE 2" STD. X 60" LONG | 48.00 | 40.00 | |
| A3 | PIPE 2" STD. X 72" LONG | 55.00 | 93.00 | C3 | PIPE 2" STD. X 72" LONG | 55.00 | 93.00 | |
| A4 | PIPE 2" STD. X 60" LONG | 48.00 | 136.00 | C4 | PIPE 2" STD. X 60" LONG | 48.00 | 136.00 | |
| A5 | PIPE 2" STD. X 60" LONG | 48.00 | 169.00 | C5 | PIPE 2" STD. X 60" LONG | 48.00 | 169.00 | |
| A6 | | | | C6 | | | | |
| B1 | PIPE 2" STD. X 60" LONG | 48.00 | 8.00 | D1 | | | | |
| B2 | PIPE 2" STD. X 60" LONG | 48.00 | 40.00 | D2 | | | | |
| B3 | PIPE 2" STD. X 72" LONG | 55.00 | 93.00 | D3 | | | | |
| B4 | PIPE 2" STD. X 60" LONG | 48.00 | 136.00 | D4 | | | | |
| B5 | PIPE 2" STD. X 60" LONG | 48.00 | 169.00 | D5 | | | | |
| B6 | | | | D6 | | | | |
| Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. : | | | | | | | 22.00 | |
| Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.): | | | | | | | 94 | |
| Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.): | | | | | | | | |
| Please enter additional information or comments below. | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Tower Face Width at Mount Elev. (ft.): | | | | Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.): | | | | 26 |

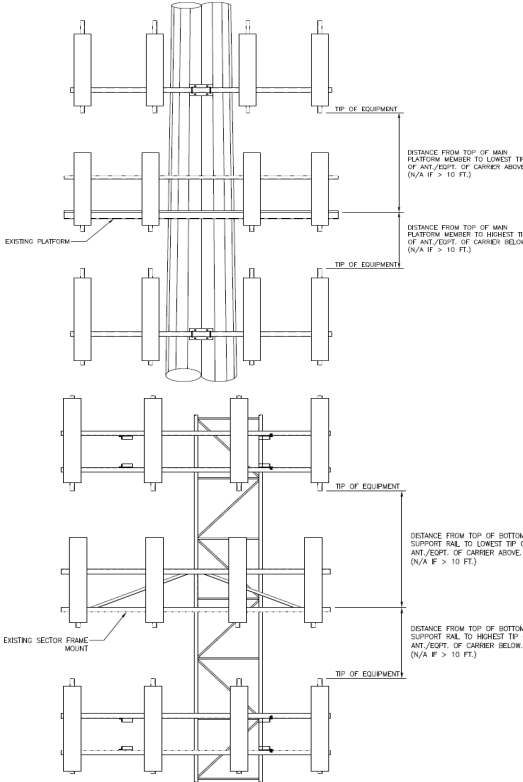


| Ants. Items | Enter antenna model. If not labeled, enter "Unknown". | | | | | Mounting Locations [Units are inches and degrees] | | | Photos of antennas | |
|-------------------|---|-------------|-------------|--------------|-------------------|---|--|---|---------------------------|---------------|
| | Antenna Models if Known | Width (in.) | Depth (in.) | Height (in.) | Coax Size and Qty | Antenna Center-line (Ft.) | Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches) | Horiz. Offset "h" (Use "-" if Ant. is behind) | Antenna Azimuth (Degrees) | Photo Numbers |
| Sector A | | | | | | | | | | |
| Ant _{1a} | | | | | | | | | | |
| Ant _{1b} | LPA-80080-4CF | 13.00 | 6.00 | 47.00 | | 173.45 | 23.00 | 14.00 | 35.00 | 49 |
| Ant _{1c} | | | | | | | | | | |
| Ant _{2a} | B4 RRH 2X60-4R | 11.00 | 5.50 | 36.00 | | 173.617 | 21.00 | -7.00 | | 54 |
| Ant _{2b} | HBXX-6517DS-VTM | 12.00 | 6.50 | 75.00 | | 172.867 | 30.00 | 9.00 | 40.00 | 51 |
| Ant _{2c} | | | | | | | | | | |
| Ant _{3a} | | | | | | | | | | |
| Ant _{3b} | LNX-6514DS-A2M | 12.00 | 7.50 | 73.00 | | 172.95 | 36.00 | 11.00 | 45.00 | 56 |
| Ant _{3c} | | | | | | | | | | |
| Ant _{4a} | | | | | | | | | | |
| Ant _{4b} | HBXX-6517DS-VTM | 12.00 | 6.50 | 75.00 | | 172.867 | 30.00 | 9.00 | 35.00 | 51 |
| Ant _{4c} | | | | | | | | | | |
| Ant _{5a} | | | | | | | | | | |
| Ant _{5b} | LPA-80080-4CF | 13.00 | 6.00 | 47.00 | | 173.45 | 23.00 | 14.00 | 35.00 | 49 |
| Ant _{5c} | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | |
| Ant on Tower | RRFDC-3315-PF-48 | 15.00 | 10.00 | 28.00 | | | 46.00 | 5.00 | | 14 |
| Ant on Tower | | | | | | | | | | |



Antenna Layout (Looking Out From Tower)

| Mount Azimuth (Degree) for Each Sector | | | | Tower Leg Azimuth (Degree) for Each Sector | | | | Sector B | | | | | | | | | | | | |
|---|-----------------|-----|--------|---|-----|-------------------|------------------|----------|-------|-------|--|---------|-------|-------|--------|----|--|--|--|--|
| Sector A: | 35.00 | Deg | Leg A: | | Deg | Ant _{1a} | | | | | | | | | | | | | | |
| Sector B: | 155.00 | Deg | Leg B: | | Deg | Ant _{1b} | ANTENNA | 9.50 | 7.50 | 48.00 | | 173.45 | 23.00 | 14.00 | 155.00 | 49 | | | | |
| Sector C: | 275.00 | Deg | Leg C: | | Deg | Ant _{1c} | | | | | | | | | | | | | | |
| Sector D: | | Deg | Leg D: | | Deg | Ant _{2a} | B4 RRH 2X60-4R | 11.00 | 5.50 | 36.00 | | 173.617 | 21.00 | -7.00 | | 54 | | | | |
| Climbing Facility Information | | | | | | Ant _{2b} | HBXX-6517DS-VTM | 12.00 | 6.50 | 75.00 | | 172.867 | 30.00 | 9.00 | 165.00 | 52 | | | | |
| Location: | 60.00 | Deg | | N/A | | Ant _{2c} | | | | | | | | | | | | | | |
| Climbing Facility | Corrosion Type: | | | Good condition. | | Ant _{3a} | | | | | | | | | | | | | | |
| | Access: | | | Climbing path was unobstructed. | | Ant _{3b} | LNX-6514DS-A2M | 12.00 | 7.50 | 73.00 | | 172.95 | 36.00 | 11.00 | 165.00 | 56 | | | | |
| | Condition: | | | Good condition. | | Ant _{3c} | | | | | | | | | | | | | | |
| | | | | | | Ant _{4a} | | | | | | | | | | | | | | |
| | | | | | | Ant _{4b} | HBXX-6517DS-VTM | 12.00 | 6.50 | 75.00 | | 172.867 | 30.00 | 9.00 | 165.00 | 52 | | | | |
| | | | | | | Ant _{4c} | | | | | | | | | | | | | | |
| | | | | | | Ant _{5a} | | | | | | | | | | | | | | |
| | | | | | | Ant _{5b} | ANTENNA | 9.50 | 7.50 | 48.00 | | 173.45 | 23.00 | 14.00 | 155.00 | 49 | | | | |
| | | | | | | Ant _{5c} | | | | | | | | | | | | | | |
| | | | | | | Ant on Standoff | | | | | | | | | | | | | | |
| | | | | | | Ant on Standoff | | | | | | | | | | | | | | |
| | | | | | | Ant on Tower | RRFDC-3315-PF-48 | 15.00 | 10.00 | 28.00 | | | 46.00 | 5.00 | | 14 | | | | |
| | | | | | | Ant on Tower | | | | | | | | | | | | | | |
| | | | | | | Sector C | | | | | | | | | | | | | | |
| | | | | | | Ant _{1a} | | | | | | | | | | | | | | |
| | | | | | | Ant _{1b} | LPA-80080-4CF | 13.00 | 6.00 | 47.00 | | 173.45 | 23.00 | 14.00 | 275.00 | 49 | | | | |
| | | | | | | Ant _{1c} | | | | | | | | | | | | | | |
| | | | | | | Ant _{2a} | B4 RRH 2X60-4R | 11.00 | 5.50 | 36.00 | | 173.617 | 21.00 | -7.00 | | 54 | | | | |
| | | | | | | Ant _{2b} | HBXX-6517DS-VTM | 12.00 | 6.50 | 75.00 | | 172.867 | 30.00 | 9.00 | 275.00 | 52 | | | | |
| | | | | | | Ant _{2c} | | | | | | | | | | | | | | |
| | | | | | | Ant _{3a} | | | | | | | | | | | | | | |
| | | | | | | Ant _{3b} | LNX-6514DS-A2M | 12.00 | 7.50 | 73.00 | | 172.95 | 36.00 | 11.00 | 285.00 | 56 | | | | |
| | | | | | | Ant _{3c} | | | | | | | | | | | | | | |
| | | | | | | Ant _{4a} | | | | | | | | | | | | | | |
| | | | | | | Ant _{4b} | HBXX-6517DS-VTM | 12.00 | 6.50 | 75.00 | | 172.867 | 30.00 | 9.00 | 275.00 | 52 | | | | |
| | | | | | | Ant _{4c} | | | | | | | | | | | | | | |
| | | | | | | Ant _{5a} | | | | | | | | | | | | | | |
| | | | | | | Ant _{5b} | LPA-80080-4CF | 13.00 | 6.00 | 47.00 | | 173.45 | 23.00 | 14.00 | 275.00 | 49 | | | | |
| | | | | | | Ant _{5c} | | | | | | | | | | | | | | |
| | | | | | | Ant on Standoff | | | | | | | | | | | | | | |
| | | | | | | Ant on Standoff | | | | | | | | | | | | | | |
| | | | | | | Ant on Tower | | | | | | | | | | | | | | |
| | | | | | | Ant on Tower | | | | | | | | | | | | | | |
| | | | | | | Sector D | | | | | | | | | | | | | | |
| | | | | | | Ant _{1a} | | | | | | | | | | | | | | |
| | | | | | | Ant _{1b} | | | | | | | | | | | | | | |
| | | | | | | Ant _{1c} | | | | | | | | | | | | | | |
| | | | | | | Ant _{2a} | | | | | | | | | | | | | | |
| | | | | | | Ant _{2b} | | | | | | | | | | | | | | |
| | | | | | | Ant _{2c} | | | | | | | | | | | | | | |
| | | | | | | Ant _{3a} | | | | | | | | | | | | | | |
| | | | | | | Ant _{3b} | | | | | | | | | | | | | | |
| | | | | | | Ant _{3c} | | | | | | | | | | | | | | |
| | | | | | | Ant _{4a} | | | | | | | | | | | | | | |
| | | | | | | Ant _{4b} | | | | | | | | | | | | | | |
| | | | | | | Ant _{4c} | | | | | | | | | | | | | | |
| | | | | | | Ant _{5a} | | | | | | | | | | | | | | |
| | | | | | | Ant _{5b} | | | | | | | | | | | | | | |
| | | | | | | Ant _{5c} | | | | | | | | | | | | | | |
| | | | | | | Ant on Standoff | | | | | | | | | | | | | | |
| | | | | | | Ant on Standoff | | | | | | | | | | | | | | |
| | | | | | | Ant on Tower | | | | | | | | | | | | | | |
| | | | | | | Ant on Tower | | | | | | | | | | | | | | |



| Observed Safety and Structural Issues During the Mount Mapping | | |
|--|----------------------|---------|
| Issue # | Description of Issue | Photo # |
| | | |

| | | |
|---|---|--------|
| 1 | | |
| 2 | (18) 1-5/8"Ø COAX, (2) 1-1/2"Ø HYBRID | 44-49 |
| 3 | (3) 1-5/8"Ø COAX AND (2) 1-1/2"Ø HYBRID UP OUTSIDE @ 160 DEG., REST ARE INSIDE MONOPOLE | 50, 51 |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

Mapping Notes

1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.
3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
6. Please measure and report the size and length of all existing antenna mounting pipes.
7. Please measure and report the antenna information for all sectors.
8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

Standard Conditions

1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.



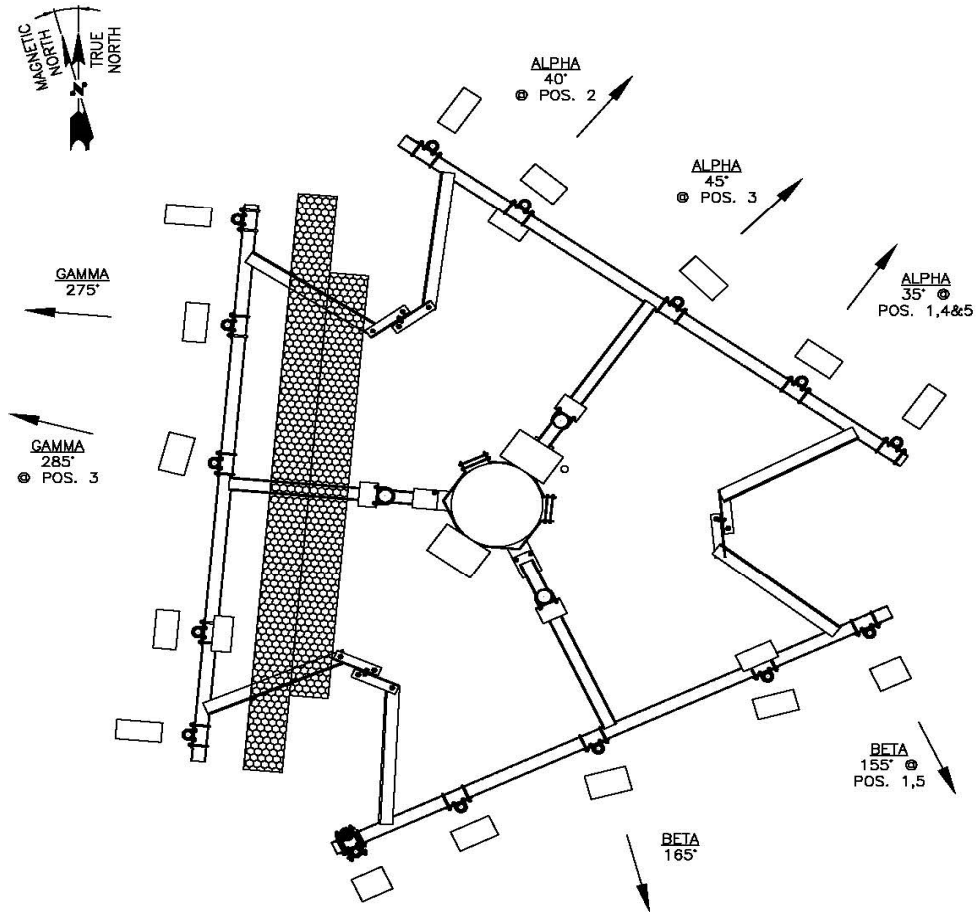
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
1201279

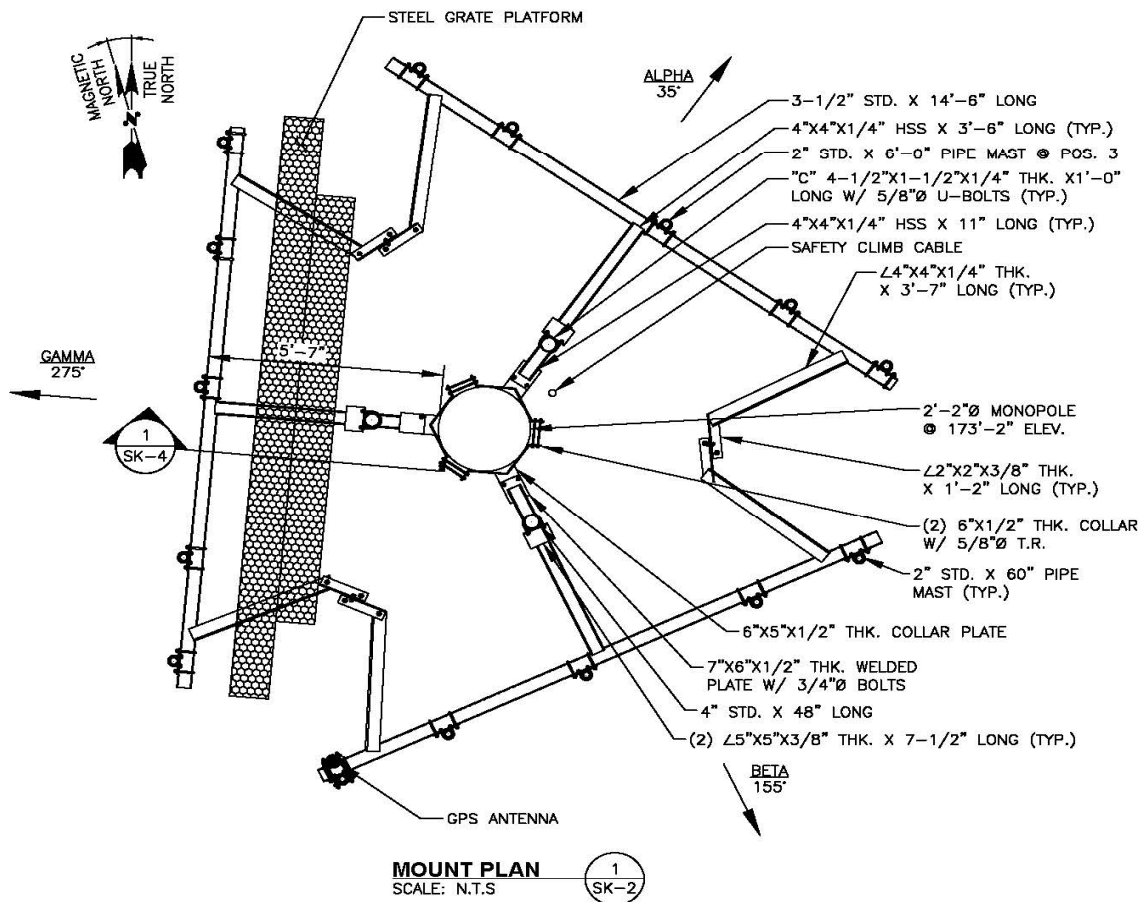
| | | | |
|----------------------------|-------------------------|-------------------------------|----------|
| Tower Owner: | SBA | Mapping Date: | 2/9/2021 |
| Site Name: | Montville 2 CT | Tower Type: | Monopole |
| Site Number or ID: | 469183 | Tower Height (Ft.): | 190 |
| Mapping Contractor: | Hudson Design Group LLC | Mount Elevation (Ft.): | 173.2 |

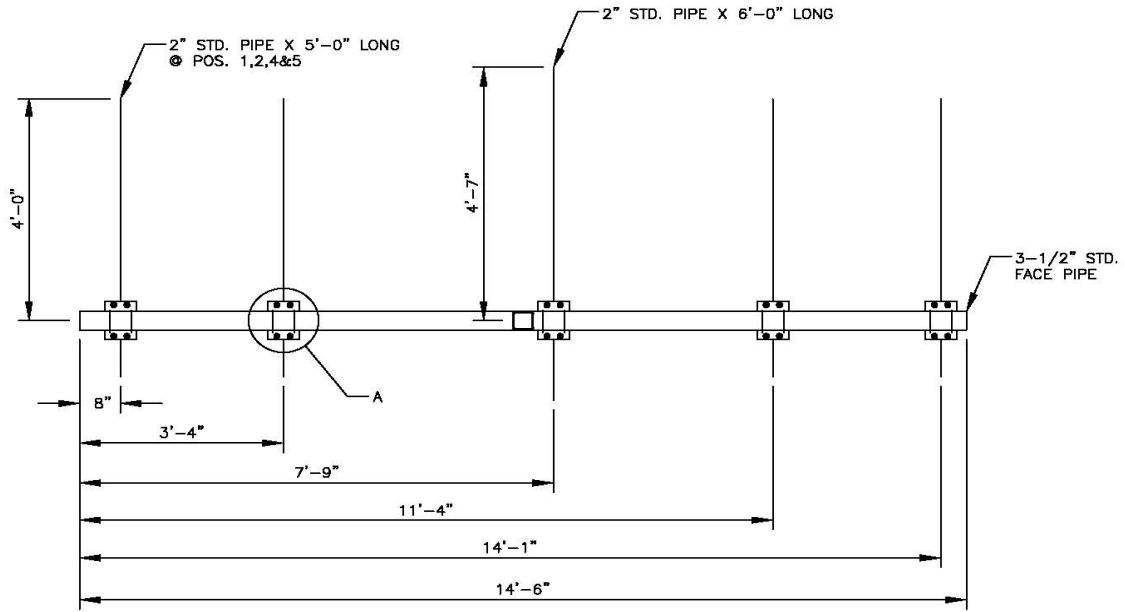
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

Please Insert Sketches of the Antenna Mount

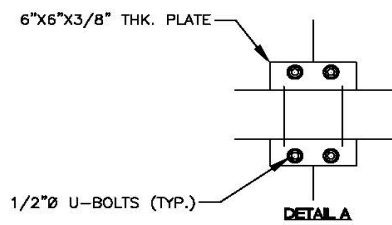


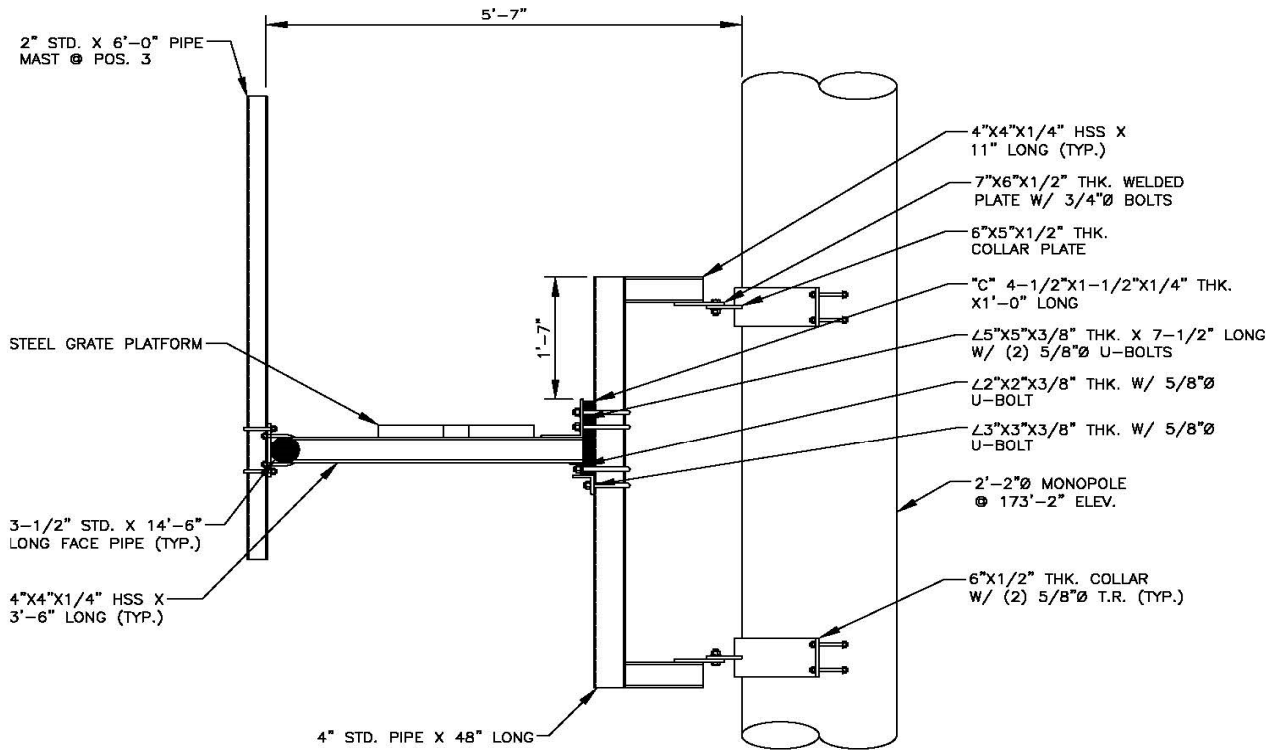
ANTENNA PLAN 1
SCALE: N.T.S. SK-1



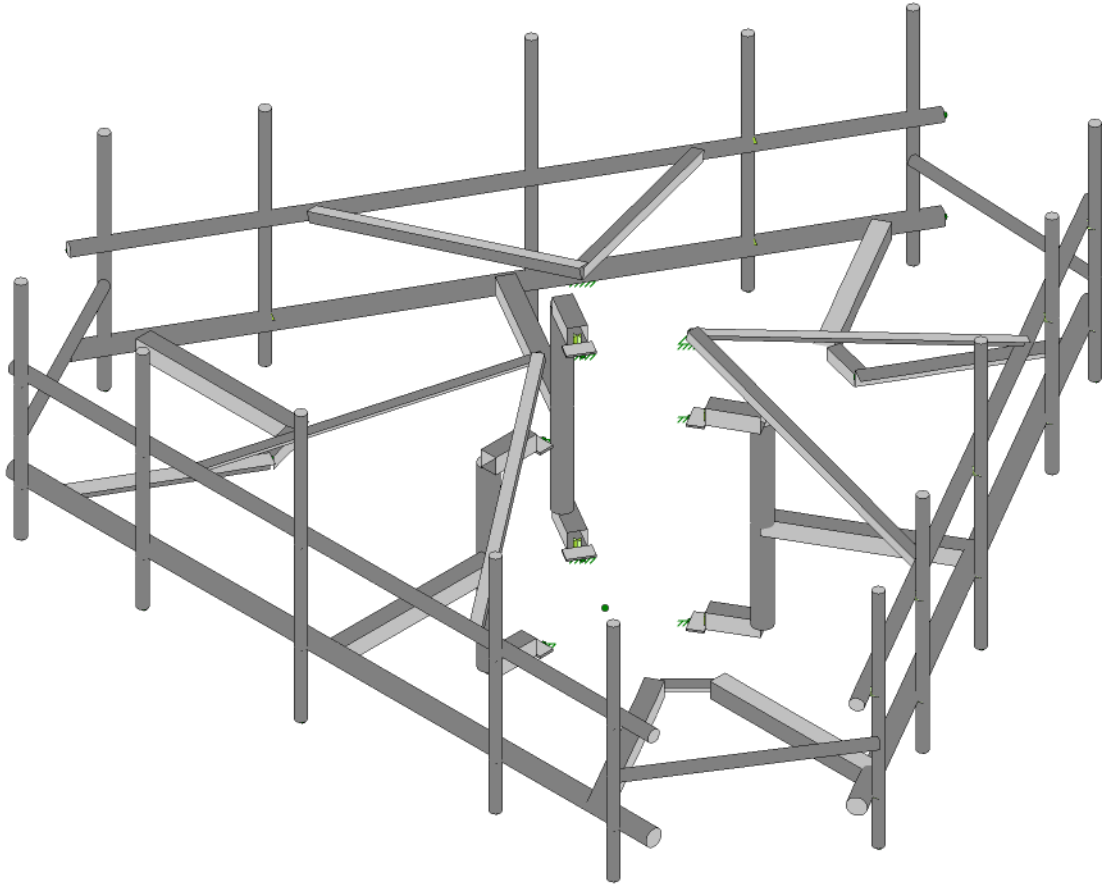
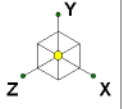


MOUNT ELEVATION 1
SCALE: N.T.S. SK-3





MOUNT ELEVATION 1
SCALE: N.T.S. SK-4



Envelope Only Solution

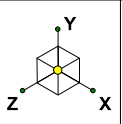
Maser Consulting

469183-VZW_MT_LO_H

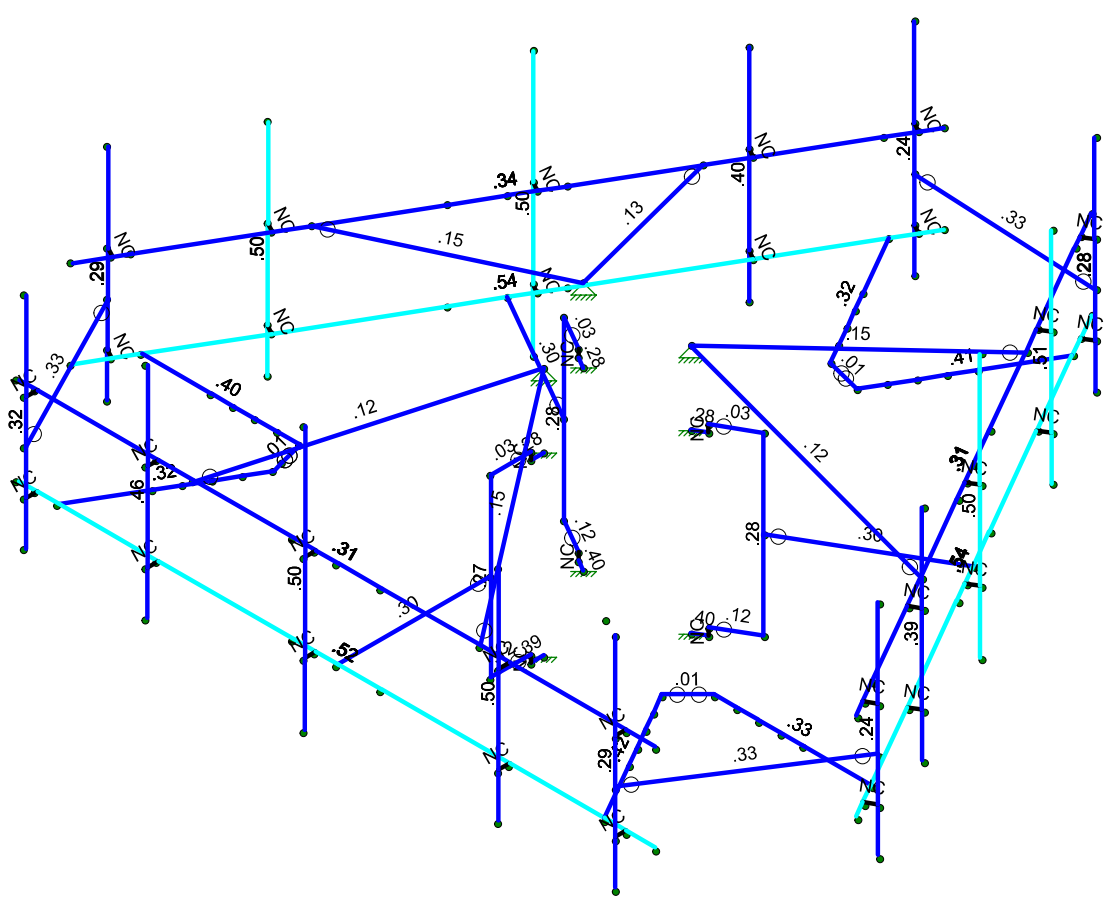
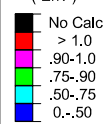
SK - 1

Apr 14, 2021 at 2:41 PM

469183-VZW_MT_LO_H - LOADED...



Code Check
(Env)



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

| | | |
|------------------|--------------------|--------------------------------|
| Maser Consulting | 469183-VZW_MT_LO_H | SK - 2 |
| | | Apr 14, 2021 at 2:41 PM |
| | | 469183-VZW_MT_LO_H - LOADED... |



Basic Load Cases (Continued)

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me... | Surface(P... |
|----|-------------------------|----------|-----------|-----------|-----------|-------|-------|------------------------|--------------|
| 52 | Structure Wo (330 D... | None | | | | | | 114 | |
| 53 | Structure Wi (0 Deg) | None | | | | | | 114 | |
| 54 | Structure Wi (30 Deg) | None | | | | | | 114 | |
| 55 | Structure Wi (60 Deg) | None | | | | | | 114 | |
| 56 | Structure Wi (90 Deg) | None | | | | | | 114 | |
| 57 | Structure Wi (120 De... | None | | | | | | 114 | |
| 58 | Structure Wi (150 De... | None | | | | | | 114 | |
| 59 | Structure Wi (180 De... | None | | | | | | 114 | |
| 60 | Structure Wi (210 De... | None | | | | | | 114 | |
| 61 | Structure Wi (240 De... | None | | | | | | 114 | |
| 62 | Structure Wi (270 De... | None | | | | | | 114 | |
| 63 | Structure Wi (300 De... | None | | | | | | 114 | |
| 64 | Structure Wi (330 De... | None | | | | | | 114 | |
| 65 | Structure Wm (0 Deg) | None | | | | | | 114 | |
| 66 | Structure Wm (30 D... | None | | | | | | 114 | |
| 67 | Structure Wm (60 D... | None | | | | | | 114 | |
| 68 | Structure Wm (90 D... | None | | | | | | 114 | |
| 69 | Structure Wm (120 ... | None | | | | | | 114 | |
| 70 | Structure Wm (150 ... | None | | | | | | 114 | |
| 71 | Structure Wm (180 ... | None | | | | | | 114 | |
| 72 | Structure Wm (210 ... | None | | | | | | 114 | |
| 73 | Structure Wm (240 ... | None | | | | | | 114 | |
| 74 | Structure Wm (270 ... | None | | | | | | 114 | |
| 75 | Structure Wm (300 ... | None | | | | | | 114 | |
| 76 | Structure Wm (330 ... | None | | | | | | 114 | |
| 77 | Lm1 | None | | | | | 1 | | |
| 78 | Lm2 | None | | | | | 1 | | |
| 79 | Lv1 | None | | | | | 1 | | |
| 80 | Lv2 | None | | | | | 1 | | |
| 81 | BLC 39 Transient Are.. | None | | | | | | 64 | |
| 82 | BLC 40 Transient Are.. | None | | | | | | 65 | |

Load Combinations

| | Description | Solve | PDelta | S... | BLCFac.. | BLCFac.. | BLCFac.. | BLCFac.. | BLCFac.. | BLCFac.. | BLCFac.. | BLCFac.. | BLCFac.. | BLCFac.. | BLCFac.. | BLCFac.. | BLCFac.. | BLCFac.. | BLCFac.. |
|----|--------------------|-------|--------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | 1.2D+1.0Wo (0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 3 | 1 | 41 | 1 | | | | | | | |
| 2 | 1.2D+1.0Wo (3... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 4 | 1 | 42 | 1 | | | | | | | |
| 3 | 1.2D+1.0Wo (6... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 5 | 1 | 43 | 1 | | | | | | | |
| 4 | 1.2D+1.0Wo (9... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 6 | 1 | 44 | 1 | | | | | | | |
| 5 | 1.2D+1.0Wo (1... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 7 | 1 | 45 | 1 | | | | | | | |
| 6 | 1.2D+1.0Wo (1... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 8 | 1 | 46 | 1 | | | | | | | |
| 7 | 1.2D+1.0Wo (1... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 9 | 1 | 47 | 1 | | | | | | | |
| 8 | 1.2D+1.0Wo (2... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 10 | 1 | 48 | 1 | | | | | | | |
| 9 | 1.2D+1.0Wo (2... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 11 | 1 | 49 | 1 | | | | | | | |
| 10 | 1.2D+1.0Wo (2... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 12 | 1 | 50 | 1 | | | | | | | |
| 11 | 1.2D+1.0Wo (3... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 13 | 1 | 51 | 1 | | | | | | | |
| 12 | 1.2D+1.0Wo (3... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 14 | 1 | 52 | 1 | | | | | | | |
| 13 | 1.2D + 1.0Di + ... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 15 | 1 | 53 | 1 | | | |
| 14 | 1.2D + 1.0Di + ... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 16 | 1 | 54 | 1 | | | |
| 15 | 1.2D + 1.0Di + ... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 17 | 1 | 55 | 1 | | | |
| 16 | 1.2D + 1.0Di + ... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 18 | 1 | 56 | 1 | | | |



Joint Coordinates and Temperatures (Continued)

| | Label | X [in] | Y [in] | Z [in] | Temp [F] | Detach From Diap... |
|-----|-------|------------|--------|-------------|----------|---------------------|
| 104 | N104A | 51.5 | 26 | 36.260908 | 0 | |
| 105 | N105A | -54.5 | 26 | 36.260908 | 0 | |
| 106 | N108 | 5.652867 | 26 | -62.730762 | 0 | |
| 107 | N109 | 58.652867 | 26 | 29.067931 | 0 | |
| 108 | N112 | -57.152867 | 26 | 26.469854 | 0 | |
| 109 | N113 | -4.153036 | 26 | -65.328794 | 0 | |
| 110 | N116A | -63.152867 | 26 | 26.469854 | 0 | |
| 111 | N117 | -7.152993 | 26 | -70.524918 | 0 | |
| 112 | N118 | -75.152867 | 26 | 26.469854 | 0 | |
| 113 | N119 | -13.152952 | 26 | -80.917247 | 0 | |
| 114 | N120A | -69.152867 | 26 | 26.469854 | 0 | |
| 115 | N121A | -10.152972 | 26 | -75.721082 | 0 | |
| 116 | N122 | -81.152867 | 26 | 26.469854 | 0 | |
| 117 | N123 | -16.152932 | 26 | -86.113411 | 0 | |
| 118 | N239 | 54.5 | 26 | 41.45706 | 0 | |
| 119 | N240 | -57.499874 | 26 | 41.457133 | 0 | |
| 120 | N241 | 60.5 | 26 | 51.849365 | 0 | |
| 121 | N242 | -63.499915 | 26 | 51.849414 | 0 | |
| 122 | N243 | 57.5 | 26 | 46.653212 | 0 | |
| 123 | N244 | -60.499895 | 26 | 46.653273 | 0 | |
| 124 | N245 | 63.5 | 26 | 57.045517 | 0 | |
| 125 | N246 | -66.499935 | 26 | 57.045555 | 0 | |
| 126 | N362 | 8.652867 | 26 | -67.926915 | 0 | |
| 127 | N363 | 64.652867 | 26 | 29.067786 | 0 | |
| 128 | N364 | 14.652867 | 26 | -78.319219 | 0 | |
| 129 | N365 | 76.652867 | 26 | 29.067833 | 0 | |
| 130 | N366 | 11.652867 | 26 | -73.123067 | 0 | |
| 131 | N367 | 70.652867 | 26 | 29.067809 | 0 | |
| 132 | N368 | 17.652867 | 26 | -83.515372 | 0 | |
| 133 | N369 | 82.652867 | 26 | 29.067856 | 0 | |
| 134 | N140 | 87 | 50 | 73.5 | 0 | |
| 135 | N141 | -87 | 50 | 73.5 | 0 | |
| 136 | N142 | 79 | 50 | 73.5 | 0 | |
| 137 | N143 | 79 | 50 | 76.5 | 0 | |
| 138 | N144 | 47 | 50 | 73.5 | 0 | |
| 139 | N145 | 47 | 50 | 76.5 | 0 | |
| 140 | N146 | -6 | 50 | 73.5 | 0 | |
| 141 | N147 | -6 | 50 | 76.5 | 0 | |
| 142 | N148 | -49 | 50 | 73.5 | 0 | |
| 143 | N149 | -49 | 50 | 76.5 | 0 | |
| 144 | N150 | -82 | 50 | 73.5 | 0 | |
| 145 | N151 | -82 | 50 | 76.5 | 0 | |
| 146 | N152 | -39 | 50 | 73.5 | 0 | |
| 147 | N153 | 39 | 50 | 73.5 | 0 | |
| 148 | N154 | 0. | 68 | 17 | 0 | |
| 149 | N155 | 20.152867 | 50 | -112.09421 | 0 | |
| 150 | N156 | 107.152867 | 50 | 38.59421 | 0 | |
| 151 | N157 | 24.152867 | 50 | -105.166007 | 0 | |
| 152 | N158 | 26.750943 | 50 | -106.666007 | 0 | |
| 153 | N159 | 40.152867 | 50 | -77.453194 | 0 | |
| 154 | N160 | 42.750943 | 50 | -78.953194 | 0 | |
| 155 | N161 | 66.652867 | 50 | -31.553848 | 0 | |



Joint Coordinates and Temperatures (Continued)

| | Label | X [in] | Y [in] | Z [in] | Temp [F] | Detach From Diap... |
|-----|-------|-------------|--------|-------------|----------|---------------------|
| 156 | N162 | 69.250943 | 50 | -33.053848 | 0 | |
| 157 | N163 | 88.152867 | 50 | 5.685245 | 0 | |
| 158 | N164 | 90.750943 | 50 | 4.185245 | 0 | |
| 159 | N165 | 104.652867 | 50 | 34.264083 | 0 | |
| 160 | N166 | 107.250943 | 50 | 32.764083 | 0 | |
| 161 | N167 | 101.152867 | 50 | 28.201905 | 0 | |
| 162 | N168 | 26.152867 | 50 | -101.701905 | 0 | |
| 163 | N169 | 14.722432 | 68 | -8.5 | 0 | |
| 164 | N170 | -107.152867 | 50 | 38.59421 | 0 | |
| 165 | N171 | -20.152867 | 50 | -112.09421 | 0 | |
| 166 | N172 | -103.152867 | 50 | 31.666007 | 0 | |
| 167 | N173 | -105.750943 | 50 | 30.166007 | 0 | |
| 168 | N174 | -87.152867 | 50 | 3.953194 | 0 | |
| 169 | N175 | -89.750943 | 50 | 2.453194 | 0 | |
| 170 | N176 | -60.652867 | 50 | -41.946152 | 0 | |
| 171 | N177 | -63.250943 | 50 | -43.446152 | 0 | |
| 172 | N178 | -39.152867 | 50 | -79.185245 | 0 | |
| 173 | N179 | -41.750943 | 50 | -80.685245 | 0 | |
| 174 | N180 | -22.652867 | 50 | -107.764083 | 0 | |
| 175 | N181 | -25.250943 | 50 | -109.264083 | 0 | |
| 176 | N182 | -26.152867 | 50 | -101.701905 | 0 | |
| 177 | N183 | -101.152867 | 50 | 28.201905 | 0 | |
| 178 | N184 | -14.722432 | 68 | -8.5 | 0 | |
| 179 | N185 | 0 | 50 | 73.5 | 0 | |
| 180 | N186 | 12 | 50 | 73.5 | 0 | |
| 181 | N187 | -12 | 50 | 73.5 | 0 | |
| 182 | N188 | 63.652867 | 50 | -36.75 | 0 | |
| 183 | N189 | 57.652867 | 50 | -47.142305 | 0 | |
| 184 | N190 | 69.652867 | 50 | -26.357695 | 0 | |
| 185 | N191 | -63.652867 | 50 | -36.75 | 0 | |
| 186 | N192 | -69.652867 | 50 | -26.357695 | 0 | |
| 187 | N193 | -57.652867 | 50 | -47.142305 | 0 | |
| 188 | N194 | 12 | 26 | 73.5 | 0 | |
| 189 | N195 | -12 | 26 | 73.5 | 0 | |
| 190 | N196 | 57.652867 | 26 | -47.142305 | 0 | |
| 191 | N197 | 69.652867 | 26 | -26.357695 | 0 | |
| 192 | N198 | -69.652867 | 26 | -26.357695 | 0 | |
| 193 | N199 | -57.652867 | 26 | -47.142305 | 0 | |
| 194 | N200 | -82 | 38 | 76.5 | 0 | |
| 195 | N201 | -105.750943 | 38 | 30.166007 | 0 | |
| 196 | N202 | 107.250943 | 38 | 32.764083 | 0 | |
| 197 | N203 | 79 | 38 | 76.5 | 0 | |
| 198 | N204 | -25.250943 | 38 | -109.264083 | 0 | |
| 199 | N205 | 26.750943 | 38 | -106.666007 | 0 | |
| 200 | N206 | 83.152867 | 50 | -2.975009 | 0 | |
| 201 | N207 | 44.152867 | 50 | -70.524991 | 0 | |
| 202 | N209 | -44.152867 | 50 | -70.524991 | 0 | |
| 203 | N210 | -83.152867 | 50 | -2.975009 | 0 | |
| 204 | N204A | -55.384289 | 26 | 32.997223 | 0 | |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Hot Rolled Steel Section Sets

| | Label | Shape | Type | Design List | Material | Design Rules | A [in ²] | I _{yy} [in ⁴] | I _{zz} [in ⁴] | J [in ⁴] |
|----|---------------------|------------|--------|--------------|---------------|--------------|----------------------|------------------------------------|------------------------------------|----------------------|
| 1 | Antenna Pipe | PIPE 2.0 | Column | Pipe | A53 Gr. B | Typical | 1.02 | .627 | .627 | 1.25 |
| 2 | Face Horizontal | PIPE 3.5 | Column | Pipe | A53 Gr. B | Typical | 2.5 | 4.52 | 4.52 | 9.04 |
| 3 | Standoff Horizontal | HSS4X4X4 | Column | RECT | A500 Gr. B... | Typical | 3.37 | 7.8 | 7.8 | 12.8 |
| 4 | Standoff Vertical | PIPE 4.0 | Column | Pipe | A53 Gr. B | Typical | 2.96 | 6.82 | 6.82 | 13.6 |
| 5 | MOD HORIZONTAL | PIPE 2.5 | Column | Pipe | A53 Gr. B | Typical | 1.61 | 1.45 | 1.45 | 2.89 |
| 6 | Standoff Plate | PL1/2X6 | Column | RECT | A36 Gr.36 | Typical | 3 | .063 | 9 | .237 |
| 7 | Angled Connection | L2x2x6 | Column | Single Angle | A36 Gr.36 | Typical | 1.37 | .476 | .476 | .066 |
| 8 | Angle Stabalizer | L4X4X4 | Column | Single Angle | A36 Gr.36 | Typical | 1.93 | 3 | 3 | .044 |
| 9 | MOD STANDOFF | L2.5x2.5x3 | Column | Single Angle | A36 Gr.36 | Typical | .901 | .535 | .535 | .011 |
| 10 | MOD CONNECTION | L3X3X4 | Column | Single Angle | A36 Gr.36 | Typical | 1.44 | 1.23 | 1.23 | .031 |

Hot Rolled Steel Properties

| | Label | E [ksi] | G [ksi] | Nu | Therm (/1E...Density[k/ft... | Yield[ksi] | Ry | Fu[ksi] | Rt | |
|---|---------------|---------|---------|----|------------------------------|------------|----|---------|----|-----|
| 1 | A36 Gr.36 | 29000 | 11154 | .3 | .65 | .49 | 36 | 1.5 | 58 | 1.2 |
| 2 | A53 Gr. B | 29000 | 11154 | .3 | .65 | .49 | 35 | 1.5 | 60 | 1.2 |
| 3 | A572 Gr.50 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.1 | 65 | 1.1 |
| 4 | A992 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.1 | 65 | 1.1 |
| 5 | A500 Gr. B 42 | 29000 | 11154 | .3 | .65 | .49 | 42 | 1.4 | 58 | 1.3 |
| 6 | A500 Gr. B 46 | 29000 | 11154 | .3 | .65 | .49 | 46 | 1.4 | 58 | 1.3 |

Member Primary Data

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Design List | Material | Design Rules |
|----|-------|---------|---------|---------|-------------|-------------------|--------|-------------|--------------|--------------|
| 1 | M1 | N3 | N5 | | 90 | Standoff Plate | Column | RECT | A36 Gr.36 | Typical |
| 2 | M2 | N2 | N4 | | 90 | Standoff Plate | Column | RECT | A36 Gr.36 | Typical |
| 3 | M3 | N4 | N6 | | | RIGID | None | None | RIGID | Typical |
| 4 | M4 | N5 | N7 | | | RIGID | None | None | RIGID | Typical |
| 5 | M5 | N7 | N9 | | | Standoff Horiz... | Column | RECT | A500 Gr. ... | Typical |
| 6 | M6 | N6 | N8 | | | Standoff Horiz... | Column | RECT | A500 Gr. ... | Typical |
| 7 | M8 | N9 | N8 | | | Standoff Vertical | Column | Pipe | A53 Gr. B | Typical |
| 8 | M10A | N10 | N11 | | | Standoff Horiz... | Column | RECT | A500 Gr. ... | Typical |
| 9 | FACE | N13 | N12 | | | Face Horizontal | Column | Pipe | A53 Gr. B | Typical |
| 10 | M12 | N14 | N15 | | | RIGID | None | None | RIGID | Typical |
| 11 | MP1A | N16 | N17 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 12 | LIVE1 | N18 | N19 | | | RIGID | None | None | RIGID | Typical |
| 13 | MP2A | N20 | N21 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 14 | M16 | N22 | N23 | | | RIGID | None | None | RIGID | Typical |
| 15 | MP3A | N24 | N25 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 16 | M18 | N26 | N27 | | | RIGID | None | None | RIGID | Typical |
| 17 | MP4A | N28 | N29 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 18 | LIVE2 | N30 | N31 | | | RIGID | None | None | RIGID | Typical |
| 19 | MP5A | N32 | N33 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 20 | M22 | N38 | N40 | | 90 | Standoff Plate | Column | RECT | A36 Gr.36 | Typical |
| 21 | M23 | N37 | N39 | | 90 | Standoff Plate | Column | RECT | A36 Gr.36 | Typical |
| 22 | M24 | N39 | N41 | | | RIGID | None | None | RIGID | Typical |
| 23 | M25 | N40 | N42 | | | RIGID | None | None | RIGID | Typical |
| 24 | M26 | N42 | N44 | | | Standoff Horiz... | Column | RECT | A500 Gr. ... | Typical |
| 25 | M27 | N41 | N43 | | | Standoff Horiz... | Column | RECT | A500 Gr. ... | Typical |
| 26 | M28 | N44 | N43 | | | Standoff Vertical | Column | Pipe | A53 Gr. B | Typical |



Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat...Analysis ... | Inactive | Seismic... |
|----|-------|-----------|-----------|--------------|--------------|----------|----------|-------------------------|----------|------------|
| 85 | M105 | OOOXXO | OOOXXO | | | | Yes | ** NA ** | | None |
| 86 | M95 | | BenPIN | | | | Yes | ** NA ** | | None |
| 87 | M96 | | BenPIN | | | | Yes | ** NA ** | | None |
| 88 | M97 | | BenPIN | | | | Yes | ** NA ** | | None |
| 89 | M98 | | BenPIN | | | | Yes | ** NA ** | | None |
| 90 | M90A | BenPIN | BenPIN | | | | Yes | ** NA ** | | None |
| 91 | M91A | BenPIN | BenPIN | | | | Yes | ** NA ** | | None |
| 92 | M92A | BenPIN | BenPIN | | | | Yes | ** NA ** | | None |
| 93 | M93A | OOOXXO | OOOXXO | | | | Yes | ** NA ** | | None |

Member Point Loads (BLC 1 : Antenna D)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Y | -31.65 | 6 |
| 2 | MP2A | My | -.014 | 6 |
| 3 | MP2A | Mz | .022 | 6 |
| 4 | MP2A | Y | -31.65 | 42 |
| 5 | MP2A | My | -.014 | 42 |
| 6 | MP2A | Mz | .022 | 42 |
| 7 | MP2B | Y | -31.65 | 6 |
| 8 | MP2B | My | -.008 | 6 |
| 9 | MP2B | Mz | -.025 | 6 |
| 10 | MP2B | Y | -31.65 | 42 |
| 11 | MP2B | My | -.008 | 42 |
| 12 | MP2B | Mz | -.025 | 42 |
| 13 | MP2C | Y | -31.65 | 6 |
| 14 | MP2C | My | .026 | 6 |
| 15 | MP2C | Mz | .000861 | 6 |
| 16 | MP2C | Y | -31.65 | 42 |
| 17 | MP2C | My | .026 | 42 |
| 18 | MP2C | Mz | .000861 | 42 |
| 19 | MP2A | Y | -31.65 | 6 |
| 20 | MP2A | My | -.018 | 6 |
| 21 | MP2A | Mz | -.02 | 6 |
| 22 | MP2A | Y | -31.65 | 42 |
| 23 | MP2A | My | -.018 | 42 |
| 24 | MP2A | Mz | -.02 | 42 |
| 25 | MP2B | Y | -31.65 | 6 |
| 26 | MP2B | My | .026 | 6 |
| 27 | MP2B | Mz | -.000861 | 6 |
| 28 | MP2B | Y | -31.65 | 42 |
| 29 | MP2B | My | .026 | 42 |
| 30 | MP2B | Mz | -.000861 | 42 |
| 31 | MP2C | Y | -31.65 | 6 |
| 32 | MP2C | My | -.008 | 6 |
| 33 | MP2C | Mz | .025 | 6 |
| 34 | MP2C | Y | -31.65 | 42 |
| 35 | MP2C | My | -.008 | 42 |
| 36 | MP2C | Mz | .025 | 42 |
| 37 | MP3A | Y | -43.55 | 12 |
| 38 | MP3A | My | -.022 | 12 |



Member Point Loads (BLC 2 : Antenna Di) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 71 | MP2C | My | -.013 | 12 |
| 72 | MP2C | Mz | -.019 | 12 |
| 73 | MP1A | Y | -41.37 | 12 |
| 74 | MP1A | My | .021 | 12 |
| 75 | MP1A | Mz | -.002 | 12 |
| 76 | MP1B | Y | -41.37 | 12 |
| 77 | MP1B | My | -.012 | 12 |
| 78 | MP1B | Mz | .017 | 12 |
| 79 | MP1C | Y | -41.37 | 12 |
| 80 | MP1C | My | -.012 | 12 |
| 81 | MP1C | Mz | -.017 | 12 |
| 82 | MP1A | Y | -41.266 | 6 |
| 83 | MP1A | My | -.021 | 6 |
| 84 | MP1A | Mz | .002 | 6 |
| 85 | MP1A | Y | -41.266 | 42 |
| 86 | MP1A | My | -.021 | 42 |
| 87 | MP1A | Mz | .002 | 42 |
| 88 | MP1C | Y | -41.266 | 6 |
| 89 | MP1C | My | .012 | 6 |
| 90 | MP1C | Mz | .017 | 6 |
| 91 | MP1C | Y | -41.266 | 42 |
| 92 | MP1C | My | .012 | 42 |
| 93 | MP1C | Mz | .017 | 42 |
| 94 | MP5A | Y | -41.266 | 6 |
| 95 | MP5A | My | -.021 | 6 |
| 96 | MP5A | Mz | .002 | 6 |
| 97 | MP5A | Y | -41.266 | 42 |
| 98 | MP5A | My | -.021 | 42 |
| 99 | MP5A | Mz | .002 | 42 |
| 100 | MP5C | Y | -41.266 | 6 |
| 101 | MP5C | My | .012 | 6 |
| 102 | MP5C | Mz | .017 | 6 |
| 103 | MP5C | Y | -41.266 | 42 |
| 104 | MP5C | My | .012 | 42 |
| 105 | MP5C | Mz | .017 | 42 |
| 106 | MP1B | Y | -39.075 | 12 |
| 107 | MP1B | My | .011 | 12 |
| 108 | MP1B | Mz | -.016 | 12 |
| 109 | MP1B | Y | -39.075 | 42 |
| 110 | MP1B | My | .011 | 42 |
| 111 | MP1B | Mz | -.016 | 42 |
| 112 | MP5B | Y | -39.075 | 12 |
| 113 | MP5B | My | .011 | 12 |
| 114 | MP5B | Mz | -.016 | 12 |
| 115 | MP5B | Y | -39.075 | 42 |
| 116 | MP5B | My | .011 | 42 |
| 117 | MP5B | Mz | -.016 | 42 |
| 118 | MP5B | Y | -11.804 | 3 |
| 119 | MP5B | My | .003 | 3 |
| 120 | MP5B | Mz | -.005 | 3 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 13 | MP2C | X | 155.925 | 6 |
| 14 | MP2C | Z | -90.023 | 6 |
| 15 | MP2C | Mx | .127 | 6 |
| 16 | MP2C | X | 155.925 | 42 |
| 17 | MP2C | Z | -90.023 | 42 |
| 18 | MP2C | Mx | .127 | 42 |
| 19 | MP2A | X | 112.26 | 6 |
| 20 | MP2A | Z | -64.813 | 6 |
| 21 | MP2A | Mx | -.022 | 6 |
| 22 | MP2A | X | 112.26 | 42 |
| 23 | MP2A | Z | -64.813 | 42 |
| 24 | MP2A | Mx | -.022 | 42 |
| 25 | MP2B | X | 112.26 | 6 |
| 26 | MP2B | Z | -64.813 | 6 |
| 27 | MP2B | Mx | .095 | 6 |
| 28 | MP2B | X | 112.26 | 42 |
| 29 | MP2B | Z | -64.813 | 42 |
| 30 | MP2B | Mx | .095 | 42 |
| 31 | MP2C | X | 155.925 | 6 |
| 32 | MP2C | Z | -90.023 | 6 |
| 33 | MP2C | Mx | -.112 | 6 |
| 34 | MP2C | X | 155.925 | 42 |
| 35 | MP2C | Z | -90.023 | 42 |
| 36 | MP2C | Mx | -.112 | 42 |
| 37 | MP3A | X | 40.308 | 12 |
| 38 | MP3A | Z | -23.272 | 12 |
| 39 | MP3A | Mx | -.021 | 12 |
| 40 | MP3A | X | 40.308 | 36 |
| 41 | MP3A | Z | -23.272 | 36 |
| 42 | MP3A | Mx | -.021 | 36 |
| 43 | MP3B | X | 40.308 | 12 |
| 44 | MP3B | Z | -23.272 | 12 |
| 45 | MP3B | Mx | .021 | 12 |
| 46 | MP3B | X | 40.308 | 36 |
| 47 | MP3B | Z | -23.272 | 36 |
| 48 | MP3B | Mx | .021 | 36 |
| 49 | MP3C | X | 80.215 | 12 |
| 50 | MP3C | Z | -46.312 | 12 |
| 51 | MP3C | Mx | .004 | 12 |
| 52 | MP3C | X | 80.215 | 36 |
| 53 | MP3C | Z | -46.312 | 36 |
| 54 | MP3C | Mx | .004 | 36 |
| 55 | MP2A | X | 11.131 | 42 |
| 56 | MP2A | Z | -6.426 | 42 |
| 57 | MP2A | Mx | .006 | 42 |
| 58 | MP2B | X | 11.131 | 42 |
| 59 | MP2B | Z | -6.426 | 42 |
| 60 | MP2B | Mx | -.006 | 42 |
| 61 | MP2C | X | 21.847 | 42 |
| 62 | MP2C | Z | -12.613 | 42 |
| 63 | MP2C | Mx | -.001 | 42 |
| 64 | MP2A | X | 46.663 | 12 |



Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 117 | MP5B | Mx | .033 | 42 |
| 118 | MP5B | X | 41.804 | 3 |
| 119 | MP5B | Z | -24.135 | 3 |
| 120 | MP5B | Mx | .022 | 3 |

Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 119.032 | 6 |
| 2 | MP2A | Z | 0 | 6 |
| 3 | MP2A | Mx | -.052 | 6 |
| 4 | MP2A | X | 119.032 | 42 |
| 5 | MP2A | Z | 0 | 42 |
| 6 | MP2A | Mx | -.052 | 42 |
| 7 | MP2B | X | 160.134 | 6 |
| 8 | MP2B | Z | 0 | 6 |
| 9 | MP2B | Mx | -.042 | 6 |
| 10 | MP2B | X | 160.134 | 42 |
| 11 | MP2B | Z | 0 | 42 |
| 12 | MP2B | Mx | -.042 | 42 |
| 13 | MP2C | X | 160.134 | 6 |
| 14 | MP2C | Z | 0 | 6 |
| 15 | MP2C | Mx | .133 | 6 |
| 16 | MP2C | X | 160.134 | 42 |
| 17 | MP2C | Z | 0 | 42 |
| 18 | MP2C | Mx | .133 | 42 |
| 19 | MP2A | X | 119.032 | 6 |
| 20 | MP2A | Z | 0 | 6 |
| 21 | MP2A | Mx | -.066 | 6 |
| 22 | MP2A | X | 119.032 | 42 |
| 23 | MP2A | Z | 0 | 42 |
| 24 | MP2A | Mx | -.066 | 42 |
| 25 | MP2B | X | 160.134 | 6 |
| 26 | MP2B | Z | 0 | 6 |
| 27 | MP2B | Mx | .133 | 6 |
| 28 | MP2B | X | 160.134 | 42 |
| 29 | MP2B | Z | 0 | 42 |
| 30 | MP2B | Mx | .133 | 42 |
| 31 | MP2C | X | 160.134 | 6 |
| 32 | MP2C | Z | 0 | 6 |
| 33 | MP2C | Mx | -.042 | 6 |
| 34 | MP2C | X | 160.134 | 42 |
| 35 | MP2C | Z | 0 | 42 |
| 36 | MP2C | Mx | -.042 | 42 |
| 37 | MP3A | X | 36.861 | 12 |
| 38 | MP3A | Z | 0 | 12 |
| 39 | MP3A | Mx | -.018 | 12 |
| 40 | MP3A | X | 36.861 | 36 |
| 41 | MP3A | Z | 0 | 36 |
| 42 | MP3A | Mx | -.018 | 36 |
| 43 | MP3B | X | 74.425 | 12 |
| 44 | MP3B | Z | 0 | 12 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 45 | MP3B | Mx | .021 | 12 |
| 46 | MP3B | X | 74.425 | 36 |
| 47 | MP3B | Z | 0 | 36 |
| 48 | MP3B | Mx | .021 | 36 |
| 49 | MP3C | X | 74.425 | 12 |
| 50 | MP3C | Z | 0 | 12 |
| 51 | MP3C | Mx | .021 | 12 |
| 52 | MP3C | X | 74.425 | 36 |
| 53 | MP3C | Z | 0 | 36 |
| 54 | MP3C | Mx | .021 | 36 |
| 55 | MP2A | X | 10.252 | 42 |
| 56 | MP2A | Z | 0 | 42 |
| 57 | MP2A | Mx | .005 | 42 |
| 58 | MP2B | X | 20.34 | 42 |
| 59 | MP2B | Z | 0 | 42 |
| 60 | MP2B | Mx | -.006 | 42 |
| 61 | MP2C | X | 20.34 | 42 |
| 62 | MP2C | Z | 0 | 42 |
| 63 | MP2C | Mx | -.006 | 42 |
| 64 | MP2A | X | 49.683 | 12 |
| 65 | MP2A | Z | 0 | 12 |
| 66 | MP2A | Mx | .025 | 12 |
| 67 | MP2B | X | 65.97 | 12 |
| 68 | MP2B | Z | 0 | 12 |
| 69 | MP2B | Mx | -.019 | 12 |
| 70 | MP2C | X | 65.97 | 12 |
| 71 | MP2C | Z | 0 | 12 |
| 72 | MP2C | Mx | -.019 | 12 |
| 73 | MP1A | X | 40.35 | 12 |
| 74 | MP1A | Z | 0 | 12 |
| 75 | MP1A | Mx | .02 | 12 |
| 76 | MP1B | X | 62.876 | 12 |
| 77 | MP1B | Z | 0 | 12 |
| 78 | MP1B | Mx | -.018 | 12 |
| 79 | MP1C | X | 62.876 | 12 |
| 80 | MP1C | Z | 0 | 12 |
| 81 | MP1C | Mx | -.018 | 12 |
| 82 | MP1A | X | 106.471 | 6 |
| 83 | MP1A | Z | 0 | 6 |
| 84 | MP1A | Mx | -.053 | 6 |
| 85 | MP1A | X | 106.471 | 42 |
| 86 | MP1A | Z | 0 | 42 |
| 87 | MP1A | Mx | -.053 | 42 |
| 88 | MP1C | X | 69.84 | 6 |
| 89 | MP1C | Z | 0 | 6 |
| 90 | MP1C | Mx | .02 | 6 |
| 91 | MP1C | X | 69.84 | 42 |
| 92 | MP1C | Z | 0 | 42 |
| 93 | MP1C | Mx | .02 | 42 |
| 94 | MP5A | X | 106.471 | 6 |
| 95 | MP5A | Z | 0 | 6 |
| 96 | MP5A | Mx | -.053 | 6 |



Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 85 | MP1A | X | -106.471 | 42 |
| 86 | MP1A | Z | 0 | 42 |
| 87 | MP1A | Mx | .053 | 42 |
| 88 | MP1C | X | -69.84 | 6 |
| 89 | MP1C | Z | 0 | 6 |
| 90 | MP1C | Mx | -.02 | 6 |
| 91 | MP1C | X | -69.84 | 42 |
| 92 | MP1C | Z | 0 | 42 |
| 93 | MP1C | Mx | -.02 | 42 |
| 94 | MP5A | X | -106.471 | 6 |
| 95 | MP5A | Z | 0 | 6 |
| 96 | MP5A | Mx | .053 | 6 |
| 97 | MP5A | X | -106.471 | 42 |
| 98 | MP5A | Z | 0 | 42 |
| 99 | MP5A | Mx | .053 | 42 |
| 100 | MP5C | X | -69.84 | 6 |
| 101 | MP5C | Z | 0 | 6 |
| 102 | MP5C | Mx | -.02 | 6 |
| 103 | MP5C | X | -69.84 | 42 |
| 104 | MP5C | Z | 0 | 42 |
| 105 | MP5C | Mx | -.02 | 42 |
| 106 | MP1B | X | -77.35 | 12 |
| 107 | MP1B | Z | 0 | 12 |
| 108 | MP1B | Mx | -.022 | 12 |
| 109 | MP1B | X | -77.35 | 42 |
| 110 | MP1B | Z | 0 | 42 |
| 111 | MP1B | Mx | -.022 | 42 |
| 112 | MP5B | X | -77.35 | 12 |
| 113 | MP5B | Z | 0 | 12 |
| 114 | MP5B | Mx | -.022 | 12 |
| 115 | MP5B | X | -77.35 | 42 |
| 116 | MP5B | Z | 0 | 42 |
| 117 | MP5B | Mx | -.022 | 42 |
| 118 | MP5B | X | -43.071 | 3 |
| 119 | MP5B | Z | 0 | 3 |
| 120 | MP5B | Mx | -.012 | 3 |

Member Point Loads (BLC 13 : Antenna Wo (300 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -120.329 | 6 |
| 2 | MP2A | Z | -69.472 | 6 |
| 3 | MP2A | Mx | .004 | 6 |
| 4 | MP2A | X | -120.329 | 42 |
| 5 | MP2A | Z | -69.472 | 42 |
| 6 | MP2A | Mx | .004 | 42 |
| 7 | MP2B | X | -155.925 | 6 |
| 8 | MP2B | Z | -90.023 | 6 |
| 9 | MP2B | Mx | .112 | 6 |
| 10 | MP2B | X | -155.925 | 42 |
| 11 | MP2B | Z | -90.023 | 42 |
| 12 | MP2B | Mx | .112 | 42 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 65 | MP2A | Z | -28.787 | 12 |
| 66 | MP2A | Mx | -.024 | 12 |
| 67 | MP2B | X | -63.965 | 12 |
| 68 | MP2B | Z | -36.93 | 12 |
| 69 | MP2B | Mx | .003 | 12 |
| 70 | MP2C | X | -46.663 | 12 |
| 71 | MP2C | Z | -26.941 | 12 |
| 72 | MP2C | Mx | .024 | 12 |
| 73 | MP1A | X | -44.395 | 12 |
| 74 | MP1A | Z | -25.632 | 12 |
| 75 | MP1A | Mx | -.021 | 12 |
| 76 | MP1B | X | -63.903 | 12 |
| 77 | MP1B | Z | -36.895 | 12 |
| 78 | MP1B | Mx | .003 | 12 |
| 79 | MP1C | X | -39.973 | 12 |
| 80 | MP1C | Z | -23.078 | 12 |
| 81 | MP1C | Mx | .021 | 12 |
| 82 | MP1A | X | -76.838 | 6 |
| 83 | MP1A | Z | -44.363 | 6 |
| 84 | MP1A | Mx | .036 | 6 |
| 85 | MP1A | X | -76.838 | 42 |
| 86 | MP1A | Z | -44.363 | 42 |
| 87 | MP1A | Mx | .036 | 42 |
| 88 | MP1C | X | -84.029 | 6 |
| 89 | MP1C | Z | -48.514 | 6 |
| 90 | MP1C | Mx | -.044 | 6 |
| 91 | MP1C | X | -84.029 | 42 |
| 92 | MP1C | Z | -48.514 | 42 |
| 93 | MP1C | Mx | -.044 | 42 |
| 94 | MP5A | X | -76.838 | 6 |
| 95 | MP5A | Z | -44.363 | 6 |
| 96 | MP5A | Mx | .036 | 6 |
| 97 | MP5A | X | -76.838 | 42 |
| 98 | MP5A | Z | -44.363 | 42 |
| 99 | MP5A | Mx | .036 | 42 |
| 100 | MP5C | X | -84.029 | 6 |
| 101 | MP5C | Z | -48.514 | 6 |
| 102 | MP5C | Mx | -.044 | 6 |
| 103 | MP5C | X | -84.029 | 42 |
| 104 | MP5C | Z | -48.514 | 42 |
| 105 | MP5C | Mx | -.044 | 42 |
| 106 | MP1B | X | -69.385 | 12 |
| 107 | MP1B | Z | -40.06 | 12 |
| 108 | MP1B | Mx | -.003 | 12 |
| 109 | MP1B | X | -69.385 | 42 |
| 110 | MP1B | Z | -40.06 | 42 |
| 111 | MP1B | Mx | -.003 | 42 |
| 112 | MP5B | X | -69.385 | 12 |
| 113 | MP5B | Z | -40.06 | 12 |
| 114 | MP5B | Mx | -.003 | 12 |
| 115 | MP5B | X | -69.385 | 42 |
| 116 | MP5B | Z | -40.06 | 42 |



Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 117 | MP5B | Mx | -.006 | 42 |
| 118 | MP5B | X | 0 | 3 |
| 119 | MP5B | Z | 8.811 | 3 |
| 120 | MP5B | Mx | -.004 | 3 |

Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -13.977 | 6 |
| 2 | MP2A | Z | 24.208 | 6 |
| 3 | MP2A | Mx | .023 | 6 |
| 4 | MP2A | X | -13.977 | 42 |
| 5 | MP2A | Z | 24.208 | 42 |
| 6 | MP2A | Mx | .023 | 42 |
| 7 | MP2B | X | -10.692 | 6 |
| 8 | MP2B | Z | 18.518 | 6 |
| 9 | MP2B | Mx | -.012 | 6 |
| 10 | MP2B | X | -10.692 | 42 |
| 11 | MP2B | Z | 18.518 | 42 |
| 12 | MP2B | Mx | -.012 | 42 |
| 13 | MP2C | X | -14.721 | 6 |
| 14 | MP2C | Z | 25.498 | 6 |
| 15 | MP2C | Mx | -.012 | 6 |
| 16 | MP2C | X | -14.721 | 42 |
| 17 | MP2C | Z | 25.498 | 42 |
| 18 | MP2C | Mx | -.012 | 42 |
| 19 | MP2A | X | -13.977 | 6 |
| 20 | MP2A | Z | 24.208 | 6 |
| 21 | MP2A | Mx | -.007 | 6 |
| 22 | MP2A | X | -13.977 | 42 |
| 23 | MP2A | Z | 24.208 | 42 |
| 24 | MP2A | Mx | -.007 | 42 |
| 25 | MP2B | X | -10.692 | 6 |
| 26 | MP2B | Z | 18.518 | 6 |
| 27 | MP2B | Mx | -.009 | 6 |
| 28 | MP2B | X | -10.692 | 42 |
| 29 | MP2B | Z | 18.518 | 42 |
| 30 | MP2B | Mx | -.009 | 42 |
| 31 | MP2C | X | -14.721 | 6 |
| 32 | MP2C | Z | 25.498 | 6 |
| 33 | MP2C | Mx | .024 | 6 |
| 34 | MP2C | X | -14.721 | 42 |
| 35 | MP2C | Z | 25.498 | 42 |
| 36 | MP2C | Mx | .024 | 42 |
| 37 | MP3A | X | -6.733 | 12 |
| 38 | MP3A | Z | 11.662 | 12 |
| 39 | MP3A | Mx | .004 | 12 |
| 40 | MP3A | X | -6.733 | 36 |
| 41 | MP3A | Z | 11.662 | 36 |
| 42 | MP3A | Mx | .004 | 36 |
| 43 | MP3B | X | -3.577 | 12 |
| 44 | MP3B | Z | 6.196 | 12 |



Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 97 | MP5A | X | -6.429 | 42 |
| 98 | MP5A | Z | 11.135 | 42 |
| 99 | MP5A | Mx | .004 | 42 |
| 100 | MP5C | X | -5.753 | 6 |
| 101 | MP5C | Z | 9.965 | 6 |
| 102 | MP5C | Mx | .002 | 6 |
| 103 | MP5C | X | -5.753 | 42 |
| 104 | MP5C | Z | 9.965 | 42 |
| 105 | MP5C | Mx | .002 | 42 |
| 106 | MP1B | X | -6.551 | 12 |
| 107 | MP1B | Z | 11.346 | 12 |
| 108 | MP1B | Mx | -.007 | 12 |
| 109 | MP1B | X | -6.551 | 42 |
| 110 | MP1B | Z | 11.346 | 42 |
| 111 | MP1B | Mx | -.007 | 42 |
| 112 | MP5B | X | -6.551 | 12 |
| 113 | MP5B | Z | 11.346 | 12 |
| 114 | MP5B | Mx | -.007 | 12 |
| 115 | MP5B | X | -6.551 | 42 |
| 116 | MP5B | Z | 11.346 | 42 |
| 117 | MP5B | Mx | -.007 | 42 |
| 118 | MP5B | X | -4.998 | 3 |
| 119 | MP5B | Z | 8.657 | 3 |
| 120 | MP5B | Mx | -.005 | 3 |

Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -19.985 | 6 |
| 2 | MP2A | Z | 11.538 | 6 |
| 3 | MP2A | Mx | .017 | 6 |
| 4 | MP2A | X | -19.985 | 42 |
| 5 | MP2A | Z | 11.538 | 42 |
| 6 | MP2A | Mx | .017 | 42 |
| 7 | MP2B | X | -19.985 | 6 |
| 8 | MP2B | Z | 11.538 | 6 |
| 9 | MP2B | Mx | -.004 | 6 |
| 10 | MP2B | X | -19.985 | 42 |
| 11 | MP2B | Z | 11.538 | 42 |
| 12 | MP2B | Mx | -.004 | 42 |
| 13 | MP2C | X | -26.965 | 6 |
| 14 | MP2C | Z | 15.568 | 6 |
| 15 | MP2C | Mx | -.022 | 6 |
| 16 | MP2C | X | -26.965 | 42 |
| 17 | MP2C | Z | 15.568 | 42 |
| 18 | MP2C | Mx | -.022 | 42 |
| 19 | MP2A | X | -19.985 | 6 |
| 20 | MP2A | Z | 11.538 | 6 |
| 21 | MP2A | Mx | .004 | 6 |
| 22 | MP2A | X | -19.985 | 42 |
| 23 | MP2A | Z | 11.538 | 42 |
| 24 | MP2A | Mx | .004 | 42 |



Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 37 | MP3A | X | -8.844 | 12 |
| 38 | MP3A | Z | -5.106 | 12 |
| 39 | MP3A | Mx | .004 | 12 |
| 40 | MP3A | X | -8.844 | 36 |
| 41 | MP3A | Z | -5.106 | 36 |
| 42 | MP3A | Mx | .004 | 36 |
| 43 | MP3B | X | -14.31 | 12 |
| 44 | MP3B | Z | -8.262 | 12 |
| 45 | MP3B | Mx | -.00072 | 12 |
| 46 | MP3B | X | -14.31 | 36 |
| 47 | MP3B | Z | -8.262 | 36 |
| 48 | MP3B | Mx | -.00072 | 36 |
| 49 | MP3C | X | -7.605 | 12 |
| 50 | MP3C | Z | -4.391 | 12 |
| 51 | MP3C | Mx | -.004 | 12 |
| 52 | MP3C | X | -7.605 | 36 |
| 53 | MP3C | Z | -4.391 | 36 |
| 54 | MP3C | Mx | -.004 | 36 |
| 55 | MP2A | X | -2.463 | 42 |
| 56 | MP2A | Z | -1.422 | 42 |
| 57 | MP2A | Mx | -.001 | 42 |
| 58 | MP2B | X | -2.951 | 42 |
| 59 | MP2B | Z | -1.704 | 42 |
| 60 | MP2B | Mx | .000148 | 42 |
| 61 | MP2C | X | -2.353 | 42 |
| 62 | MP2C | Z | -1.358 | 42 |
| 63 | MP2C | Mx | .001 | 42 |
| 64 | MP2A | X | -9.655 | 12 |
| 65 | MP2A | Z | -5.574 | 12 |
| 66 | MP2A | Mx | -.005 | 12 |
| 67 | MP2B | X | -12.1 | 12 |
| 68 | MP2B | Z | -6.986 | 12 |
| 69 | MP2B | Mx | .000609 | 12 |
| 70 | MP2C | X | -9.101 | 12 |
| 71 | MP2C | Z | -5.255 | 12 |
| 72 | MP2C | Mx | .005 | 12 |
| 73 | MP1A | X | -8.716 | 12 |
| 74 | MP1A | Z | -5.032 | 12 |
| 75 | MP1A | Mx | -.004 | 12 |
| 76 | MP1B | X | -12.089 | 12 |
| 77 | MP1B | Z | -6.98 | 12 |
| 78 | MP1B | Mx | .000608 | 12 |
| 79 | MP1C | X | -7.951 | 12 |
| 80 | MP1C | Z | -4.591 | 12 |
| 81 | MP1C | Mx | .004 | 12 |
| 82 | MP1A | X | -13.798 | 6 |
| 83 | MP1A | Z | -7.966 | 6 |
| 84 | MP1A | Mx | .007 | 6 |
| 85 | MP1A | X | -13.798 | 42 |
| 86 | MP1A | Z | -7.966 | 42 |
| 87 | MP1A | Mx | .007 | 42 |
| 88 | MP1C | X | -14.968 | 6 |



Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 89 | MP1C | Z | -8.642 | 6 |
| 90 | MP1C | Mx | -.008 | 6 |
| 91 | MP1C | X | -14.968 | 42 |
| 92 | MP1C | Z | -8.642 | 42 |
| 93 | MP1C | Mx | -.008 | 42 |
| 94 | MP5A | X | -13.798 | 6 |
| 95 | MP5A | Z | -7.966 | 6 |
| 96 | MP5A | Mx | .007 | 6 |
| 97 | MP5A | X | -13.798 | 42 |
| 98 | MP5A | Z | -7.966 | 42 |
| 99 | MP5A | Mx | .007 | 42 |
| 100 | MP5C | X | -14.968 | 6 |
| 101 | MP5C | Z | -8.642 | 6 |
| 102 | MP5C | Mx | -.008 | 6 |
| 103 | MP5C | X | -14.968 | 42 |
| 104 | MP5C | Z | -8.642 | 42 |
| 105 | MP5C | Mx | -.008 | 42 |
| 106 | MP1B | X | -12.562 | 12 |
| 107 | MP1B | Z | -7.253 | 12 |
| 108 | MP1B | Mx | -.000632 | 12 |
| 109 | MP1B | X | -12.562 | 42 |
| 110 | MP1B | Z | -7.253 | 42 |
| 111 | MP1B | Mx | -.000632 | 42 |
| 112 | MP5B | X | -12.562 | 12 |
| 113 | MP5B | Z | -7.253 | 12 |
| 114 | MP5B | Mx | -.000632 | 12 |
| 115 | MP5B | X | -12.562 | 42 |
| 116 | MP5B | Z | -7.253 | 42 |
| 117 | MP5B | Mx | -.000632 | 42 |
| 118 | MP5B | X | -5.511 | 3 |
| 119 | MP5B | Z | -3.182 | 3 |
| 120 | MP5B | Mx | -.000277 | 3 |

Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -14.721 | 6 |
| 2 | MP2A | Z | -25.498 | 6 |
| 3 | MP2A | Mx | -.012 | 6 |
| 4 | MP2A | X | -14.721 | 42 |
| 5 | MP2A | Z | -25.498 | 42 |
| 6 | MP2A | Mx | -.012 | 42 |
| 7 | MP2B | X | -14.721 | 6 |
| 8 | MP2B | Z | -25.498 | 6 |
| 9 | MP2B | Mx | .024 | 6 |
| 10 | MP2B | X | -14.721 | 42 |
| 11 | MP2B | Z | -25.498 | 42 |
| 12 | MP2B | Mx | .024 | 42 |
| 13 | MP2C | X | -10.692 | 6 |
| 14 | MP2C | Z | -18.518 | 6 |
| 15 | MP2C | Mx | -.009 | 6 |
| 16 | MP2C | X | -10.692 | 42 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 17 | MP2C | Z | -18.518 | 42 |
| 18 | MP2C | Mx | -.009 | 42 |
| 19 | MP2A | X | -14.721 | 6 |
| 20 | MP2A | Z | -25.498 | 6 |
| 21 | MP2A | Mx | .024 | 6 |
| 22 | MP2A | X | -14.721 | 42 |
| 23 | MP2A | Z | -25.498 | 42 |
| 24 | MP2A | Mx | .024 | 42 |
| 25 | MP2B | X | -14.721 | 6 |
| 26 | MP2B | Z | -25.498 | 6 |
| 27 | MP2B | Mx | -.012 | 6 |
| 28 | MP2B | X | -14.721 | 42 |
| 29 | MP2B | Z | -25.498 | 42 |
| 30 | MP2B | Mx | -.012 | 42 |
| 31 | MP2C | X | -10.692 | 6 |
| 32 | MP2C | Z | -18.518 | 6 |
| 33 | MP2C | Mx | -.012 | 6 |
| 34 | MP2C | X | -10.692 | 42 |
| 35 | MP2C | Z | -18.518 | 42 |
| 36 | MP2C | Mx | -.012 | 42 |
| 37 | MP3A | X | -7.448 | 12 |
| 38 | MP3A | Z | -12.901 | 12 |
| 39 | MP3A | Mx | .003 | 12 |
| 40 | MP3A | X | -7.448 | 36 |
| 41 | MP3A | Z | -12.901 | 36 |
| 42 | MP3A | Mx | .003 | 36 |
| 43 | MP3B | X | -7.448 | 12 |
| 44 | MP3B | Z | -12.901 | 12 |
| 45 | MP3B | Mx | .003 | 12 |
| 46 | MP3B | X | -7.448 | 36 |
| 47 | MP3B | Z | -12.901 | 36 |
| 48 | MP3B | Mx | .003 | 36 |
| 49 | MP3C | X | -3.577 | 12 |
| 50 | MP3C | Z | -6.196 | 12 |
| 51 | MP3C | Mx | -.004 | 12 |
| 52 | MP3C | X | -3.577 | 36 |
| 53 | MP3C | Z | -6.196 | 36 |
| 54 | MP3C | Mx | -.004 | 36 |
| 55 | MP2A | X | -1.631 | 42 |
| 56 | MP2A | Z | -2.825 | 42 |
| 57 | MP2A | Mx | -.000689 | 42 |
| 58 | MP2B | X | -1.631 | 42 |
| 59 | MP2B | Z | -2.825 | 42 |
| 60 | MP2B | Mx | -.000689 | 42 |
| 61 | MP2C | X | -1.286 | 42 |
| 62 | MP2C | Z | -2.227 | 42 |
| 63 | MP2C | Mx | .001 | 42 |
| 64 | MP2A | X | -6.622 | 12 |
| 65 | MP2A | Z | -11.47 | 12 |
| 66 | MP2A | Mx | -.003 | 12 |
| 67 | MP2B | X | -6.622 | 12 |
| 68 | MP2B | Z | -11.47 | 12 |



Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 105 | MP5C | Mx | -.002 | 42 |
| 106 | MP1B | X | 0 | 12 |
| 107 | MP1B | Z | -4.218 | 12 |
| 108 | MP1B | Mx | .002 | 12 |
| 109 | MP1B | X | 0 | 42 |
| 110 | MP1B | Z | -4.218 | 42 |
| 111 | MP1B | Mx | .002 | 42 |
| 112 | MP5B | X | 0 | 12 |
| 113 | MP5B | Z | -4.218 | 12 |
| 114 | MP5B | Mx | .002 | 12 |
| 115 | MP5B | X | 0 | 42 |
| 116 | MP5B | Z | -4.218 | 42 |
| 117 | MP5B | Mx | .002 | 42 |
| 118 | MP5B | X | 0 | 3 |
| 119 | MP5B | Z | -2.646 | 3 |
| 120 | MP5B | Mx | .001 | 3 |

Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 4.539 | 6 |
| 2 | MP2A | Z | -7.862 | 6 |
| 3 | MP2A | Mx | -.008 | 6 |
| 4 | MP2A | X | 4.539 | 42 |
| 5 | MP2A | Z | -7.862 | 42 |
| 6 | MP2A | Mx | -.008 | 42 |
| 7 | MP2B | X | 3.374 | 6 |
| 8 | MP2B | Z | -5.844 | 6 |
| 9 | MP2B | Mx | .004 | 6 |
| 10 | MP2B | X | 3.374 | 42 |
| 11 | MP2B | Z | -5.844 | 42 |
| 12 | MP2B | Mx | .004 | 42 |
| 13 | MP2C | X | 4.803 | 6 |
| 14 | MP2C | Z | -8.319 | 6 |
| 15 | MP2C | Mx | .004 | 6 |
| 16 | MP2C | X | 4.803 | 42 |
| 17 | MP2C | Z | -8.319 | 42 |
| 18 | MP2C | Mx | .004 | 42 |
| 19 | MP2A | X | 4.539 | 6 |
| 20 | MP2A | Z | -7.862 | 6 |
| 21 | MP2A | Mx | .002 | 6 |
| 22 | MP2A | X | 4.539 | 42 |
| 23 | MP2A | Z | -7.862 | 42 |
| 24 | MP2A | Mx | .002 | 42 |
| 25 | MP2B | X | 3.374 | 6 |
| 26 | MP2B | Z | -5.844 | 6 |
| 27 | MP2B | Mx | .003 | 6 |
| 28 | MP2B | X | 3.374 | 42 |
| 29 | MP2B | Z | -5.844 | 42 |
| 30 | MP2B | Mx | .003 | 42 |
| 31 | MP2C | X | 4.803 | 6 |
| 32 | MP2C | Z | -8.319 | 6 |

Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP2C | Mx | -.008 | 6 |
| 34 | MP2C | X | 4.803 | 42 |
| 35 | MP2C | Z | -8.319 | 42 |
| 36 | MP2C | Mx | -.008 | 42 |
| 37 | MP3A | X | 2.11 | 12 |
| 38 | MP3A | Z | -3.654 | 12 |
| 39 | MP3A | Mx | -.001 | 12 |
| 40 | MP3A | X | 2.11 | 36 |
| 41 | MP3A | Z | -3.654 | 36 |
| 42 | MP3A | Mx | -.001 | 36 |
| 43 | MP3B | X | 1.045 | 12 |
| 44 | MP3B | Z | -1.81 | 12 |
| 45 | MP3B | Mx | .001 | 12 |
| 46 | MP3B | X | 1.045 | 36 |
| 47 | MP3B | Z | -1.81 | 36 |
| 48 | MP3B | Mx | .001 | 36 |
| 49 | MP3C | X | 2.351 | 12 |
| 50 | MP3C | Z | -4.072 | 12 |
| 51 | MP3C | Mx | -.000994 | 12 |
| 52 | MP3C | X | 2.351 | 36 |
| 53 | MP3C | Z | -4.072 | 36 |
| 54 | MP3C | Mx | -.000994 | 36 |
| 55 | MP2A | X | .577 | 42 |
| 56 | MP2A | Z | -.999 | 42 |
| 57 | MP2A | Mx | .000331 | 42 |
| 58 | MP2B | X | .291 | 42 |
| 59 | MP2B | Z | -.503 | 42 |
| 60 | MP2B | Mx | -.000289 | 42 |
| 61 | MP2C | X | .641 | 42 |
| 62 | MP2C | Z | -1.111 | 42 |
| 63 | MP2C | Mx | .000271 | 42 |
| 64 | MP2A | X | 1.87 | 12 |
| 65 | MP2A | Z | -3.239 | 12 |
| 66 | MP2A | Mx | .001 | 12 |
| 67 | MP2B | X | 1.408 | 12 |
| 68 | MP2B | Z | -2.439 | 12 |
| 69 | MP2B | Mx | -.001 | 12 |
| 70 | MP2C | X | 1.975 | 12 |
| 71 | MP2C | Z | -3.42 | 12 |
| 72 | MP2C | Mx | .000834 | 12 |
| 73 | MP1A | X | 1.782 | 12 |
| 74 | MP1A | Z | -3.087 | 12 |
| 75 | MP1A | Mx | .001 | 12 |
| 76 | MP1B | X | 1.144 | 12 |
| 77 | MP1B | Z | -1.981 | 12 |
| 78 | MP1B | Mx | -.001 | 12 |
| 79 | MP1C | X | 1.927 | 12 |
| 80 | MP1C | Z | -3.338 | 12 |
| 81 | MP1C | Mx | .000815 | 12 |
| 82 | MP1A | X | 1.98 | 6 |
| 83 | MP1A | Z | -3.429 | 6 |
| 84 | MP1A | Mx | -.001 | 6 |



Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 85 | MP1A | X | 1.98 | 42 |
| 86 | MP1A | Z | -3.429 | 42 |
| 87 | MP1A | Mx | -.001 | 42 |
| 88 | MP1C | X | 1.744 | 6 |
| 89 | MP1C | Z | -3.021 | 6 |
| 90 | MP1C | Mx | -.000737 | 6 |
| 91 | MP1C | X | 1.744 | 42 |
| 92 | MP1C | Z | -3.021 | 42 |
| 93 | MP1C | Mx | -.000737 | 42 |
| 94 | MP5A | X | 1.98 | 6 |
| 95 | MP5A | Z | -3.429 | 6 |
| 96 | MP5A | Mx | -.001 | 6 |
| 97 | MP5A | X | 1.98 | 42 |
| 98 | MP5A | Z | -3.429 | 42 |
| 99 | MP5A | Mx | -.001 | 42 |
| 100 | MP5C | X | 1.744 | 6 |
| 101 | MP5C | Z | -3.021 | 6 |
| 102 | MP5C | Mx | -.000737 | 6 |
| 103 | MP5C | X | 1.744 | 42 |
| 104 | MP5C | Z | -3.021 | 42 |
| 105 | MP5C | Mx | -.000737 | 42 |
| 106 | MP1B | X | 2.03 | 12 |
| 107 | MP1B | Z | -3.517 | 12 |
| 108 | MP1B | Mx | .002 | 12 |
| 109 | MP1B | X | 2.03 | 42 |
| 110 | MP1B | Z | -3.517 | 42 |
| 111 | MP1B | Mx | .002 | 42 |
| 112 | MP5B | X | 2.03 | 12 |
| 113 | MP5B | Z | -3.517 | 12 |
| 114 | MP5B | Mx | .002 | 12 |
| 115 | MP5B | X | 2.03 | 42 |
| 116 | MP5B | Z | -3.517 | 42 |
| 117 | MP5B | Mx | .002 | 42 |
| 118 | MP5B | X | 1.419 | 3 |
| 119 | MP5B | Z | -2.458 | 3 |
| 120 | MP5B | Mx | .001 | 3 |

Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 6.364 | 6 |
| 2 | MP2A | Z | -3.674 | 6 |
| 3 | MP2A | Mx | -.005 | 6 |
| 4 | MP2A | X | 6.364 | 42 |
| 5 | MP2A | Z | -3.674 | 42 |
| 6 | MP2A | Mx | -.005 | 42 |
| 7 | MP2B | X | 6.364 | 6 |
| 8 | MP2B | Z | -3.674 | 6 |
| 9 | MP2B | Mx | .001 | 6 |
| 10 | MP2B | X | 6.364 | 42 |
| 11 | MP2B | Z | -3.674 | 42 |
| 12 | MP2B | Mx | .001 | 42 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 13 | MP2C | X | 8.839 | 6 |
| 14 | MP2C | Z | -5.103 | 6 |
| 15 | MP2C | Mx | .007 | 6 |
| 16 | MP2C | X | 8.839 | 42 |
| 17 | MP2C | Z | -5.103 | 42 |
| 18 | MP2C | Mx | .007 | 42 |
| 19 | MP2A | X | 6.364 | 6 |
| 20 | MP2A | Z | -3.674 | 6 |
| 21 | MP2A | Mx | -.001 | 6 |
| 22 | MP2A | X | 6.364 | 42 |
| 23 | MP2A | Z | -3.674 | 42 |
| 24 | MP2A | Mx | -.001 | 42 |
| 25 | MP2B | X | 6.364 | 6 |
| 26 | MP2B | Z | -3.674 | 6 |
| 27 | MP2B | Mx | .005 | 6 |
| 28 | MP2B | X | 6.364 | 42 |
| 29 | MP2B | Z | -3.674 | 42 |
| 30 | MP2B | Mx | .005 | 42 |
| 31 | MP2C | X | 8.839 | 6 |
| 32 | MP2C | Z | -5.103 | 6 |
| 33 | MP2C | Mx | -.006 | 6 |
| 34 | MP2C | X | 8.839 | 42 |
| 35 | MP2C | Z | -5.103 | 42 |
| 36 | MP2C | Mx | -.006 | 42 |
| 37 | MP3A | X | 2.285 | 12 |
| 38 | MP3A | Z | -1.319 | 12 |
| 39 | MP3A | Mx | -.001 | 12 |
| 40 | MP3A | X | 2.285 | 36 |
| 41 | MP3A | Z | -1.319 | 36 |
| 42 | MP3A | Mx | -.001 | 36 |
| 43 | MP3B | X | 2.285 | 12 |
| 44 | MP3B | Z | -1.319 | 12 |
| 45 | MP3B | Mx | .001 | 12 |
| 46 | MP3B | X | 2.285 | 36 |
| 47 | MP3B | Z | -1.319 | 36 |
| 48 | MP3B | Mx | .001 | 36 |
| 49 | MP3C | X | 4.547 | 12 |
| 50 | MP3C | Z | -2.625 | 12 |
| 51 | MP3C | Mx | .000229 | 12 |
| 52 | MP3C | X | 4.547 | 36 |
| 53 | MP3C | Z | -2.625 | 36 |
| 54 | MP3C | Mx | .000229 | 36 |
| 55 | MP2A | X | .631 | 42 |
| 56 | MP2A | Z | -.364 | 42 |
| 57 | MP2A | Mx | .00033 | 42 |
| 58 | MP2B | X | .631 | 42 |
| 59 | MP2B | Z | -.364 | 42 |
| 60 | MP2B | Mx | -.00033 | 42 |
| 61 | MP2C | X | 1.238 | 42 |
| 62 | MP2C | Z | -.715 | 42 |
| 63 | MP2C | Mx | -6.2e-5 | 42 |
| 64 | MP2A | X | 2.645 | 12 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By:_____

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 117 | MP5B | Mx | .002 | 42 |
| 118 | MP5B | X | 2.37 | 3 |
| 119 | MP5B | Z | -1.368 | 3 |
| 120 | MP5B | Mx | .001 | 3 |

Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 6.748 | 6 |
| 2 | MP2A | Z | 0 | 6 |
| 3 | MP2A | Mx | -.003 | 6 |
| 4 | MP2A | X | 6.748 | 42 |
| 5 | MP2A | Z | 0 | 42 |
| 6 | MP2A | Mx | -.003 | 42 |
| 7 | MP2B | X | 9.078 | 6 |
| 8 | MP2B | Z | 0 | 6 |
| 9 | MP2B | Mx | -.002 | 6 |
| 10 | MP2B | X | 9.078 | 42 |
| 11 | MP2B | Z | 0 | 42 |
| 12 | MP2B | Mx | -.002 | 42 |
| 13 | MP2C | X | 9.078 | 6 |
| 14 | MP2C | Z | 0 | 6 |
| 15 | MP2C | Mx | .008 | 6 |
| 16 | MP2C | X | 9.078 | 42 |
| 17 | MP2C | Z | 0 | 42 |
| 18 | MP2C | Mx | .008 | 42 |
| 19 | MP2A | X | 6.748 | 6 |
| 20 | MP2A | Z | 0 | 6 |
| 21 | MP2A | Mx | -.004 | 6 |
| 22 | MP2A | X | 6.748 | 42 |
| 23 | MP2A | Z | 0 | 42 |
| 24 | MP2A | Mx | -.004 | 42 |
| 25 | MP2B | X | 9.078 | 6 |
| 26 | MP2B | Z | 0 | 6 |
| 27 | MP2B | Mx | .008 | 6 |
| 28 | MP2B | X | 9.078 | 42 |
| 29 | MP2B | Z | 0 | 42 |
| 30 | MP2B | Mx | .008 | 42 |
| 31 | MP2C | X | 9.078 | 6 |
| 32 | MP2C | Z | 0 | 6 |
| 33 | MP2C | Mx | -.002 | 6 |
| 34 | MP2C | X | 9.078 | 42 |
| 35 | MP2C | Z | 0 | 42 |
| 36 | MP2C | Mx | -.002 | 42 |
| 37 | MP3A | X | 2.09 | 12 |
| 38 | MP3A | Z | 0 | 12 |
| 39 | MP3A | Mx | -.001 | 12 |
| 40 | MP3A | X | 2.09 | 36 |
| 41 | MP3A | Z | 0 | 36 |
| 42 | MP3A | Mx | -.001 | 36 |
| 43 | MP3B | X | 4.219 | 12 |
| 44 | MP3B | Z | 0 | 12 |



Company : Maser Consulting
Designer :
Job Number :
Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
2:42 PM
Checked By: _____

Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 97 | MP5A | X | 6.036 | 42 |
| 98 | MP5A | Z | 0 | 42 |
| 99 | MP5A | Mx | -.003 | 42 |
| 100 | MP5C | X | 3.959 | 6 |
| 101 | MP5C | Z | 0 | 6 |
| 102 | MP5C | Mx | .001 | 6 |
| 103 | MP5C | X | 3.959 | 42 |
| 104 | MP5C | Z | 0 | 42 |
| 105 | MP5C | Mx | .001 | 42 |
| 106 | MP1B | X | 4.385 | 12 |
| 107 | MP1B | Z | 0 | 12 |
| 108 | MP1B | Mx | .001 | 12 |
| 109 | MP1B | X | 4.385 | 42 |
| 110 | MP1B | Z | 0 | 42 |
| 111 | MP1B | Mx | .001 | 42 |
| 112 | MP5B | X | 4.385 | 12 |
| 113 | MP5B | Z | 0 | 12 |
| 114 | MP5B | Mx | .001 | 12 |
| 115 | MP5B | X | 4.385 | 42 |
| 116 | MP5B | Z | 0 | 42 |
| 117 | MP5B | Mx | .001 | 42 |
| 118 | MP5B | X | 2.442 | 3 |
| 119 | MP5B | Z | 0 | 3 |
| 120 | MP5B | Mx | .0007 | 3 |

Member Point Loads (BLC 31 : Antenna Wm (120 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 6.821 | 6 |
| 2 | MP2A | Z | 3.938 | 6 |
| 3 | MP2A | Mx | -.000214 | 6 |
| 4 | MP2A | X | 6.821 | 42 |
| 5 | MP2A | Z | 3.938 | 42 |
| 6 | MP2A | Mx | -.000214 | 42 |
| 7 | MP2B | X | 8.839 | 6 |
| 8 | MP2B | Z | 5.103 | 6 |
| 9 | MP2B | Mx | -.006 | 6 |
| 10 | MP2B | X | 8.839 | 42 |
| 11 | MP2B | Z | 5.103 | 42 |
| 12 | MP2B | Mx | -.006 | 42 |
| 13 | MP2C | X | 6.364 | 6 |
| 14 | MP2C | Z | 3.674 | 6 |
| 15 | MP2C | Mx | .005 | 6 |
| 16 | MP2C | X | 6.364 | 42 |
| 17 | MP2C | Z | 3.674 | 42 |
| 18 | MP2C | Mx | .005 | 42 |
| 19 | MP2A | X | 6.821 | 6 |
| 20 | MP2A | Z | 3.938 | 6 |
| 21 | MP2A | Mx | -.006 | 6 |
| 22 | MP2A | X | 6.821 | 42 |
| 23 | MP2A | Z | 3.938 | 42 |
| 24 | MP2A | Mx | -.006 | 42 |

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | MP2B | X | 8.839 | 6 |
| 26 | MP2B | Z | 5.103 | 6 |
| 27 | MP2B | Mx | .007 | 6 |
| 28 | MP2B | X | 8.839 | 42 |
| 29 | MP2B | Z | 5.103 | 42 |
| 30 | MP2B | Mx | .007 | 42 |
| 31 | MP2C | X | 6.364 | 6 |
| 32 | MP2C | Z | 3.674 | 6 |
| 33 | MP2C | Mx | .001 | 6 |
| 34 | MP2C | X | 6.364 | 42 |
| 35 | MP2C | Z | 3.674 | 42 |
| 36 | MP2C | Mx | .001 | 42 |
| 37 | MP3A | X | 2.703 | 12 |
| 38 | MP3A | Z | 1.561 | 12 |
| 39 | MP3A | Mx | -.001 | 12 |
| 40 | MP3A | X | 2.703 | 36 |
| 41 | MP3A | Z | 1.561 | 36 |
| 42 | MP3A | Mx | -.001 | 36 |
| 43 | MP3B | X | 4.547 | 12 |
| 44 | MP3B | Z | 2.625 | 12 |
| 45 | MP3B | Mx | .000229 | 12 |
| 46 | MP3B | X | 4.547 | 36 |
| 47 | MP3B | Z | 2.625 | 36 |
| 48 | MP3B | Mx | .000229 | 36 |
| 49 | MP3C | X | 2.285 | 12 |
| 50 | MP3C | Z | 1.319 | 12 |
| 51 | MP3C | Mx | .001 | 12 |
| 52 | MP3C | X | 2.285 | 36 |
| 53 | MP3C | Z | 1.319 | 36 |
| 54 | MP3C | Mx | .001 | 36 |
| 55 | MP2A | X | .743 | 42 |
| 56 | MP2A | Z | .429 | 42 |
| 57 | MP2A | Mx | .000351 | 42 |
| 58 | MP2B | X | 1.238 | 42 |
| 59 | MP2B | Z | .715 | 42 |
| 60 | MP2B | Mx | -6.2e-5 | 42 |
| 61 | MP2C | X | .631 | 42 |
| 62 | MP2C | Z | .364 | 42 |
| 63 | MP2C | Mx | -.00033 | 42 |
| 64 | MP2A | X | 2.827 | 12 |
| 65 | MP2A | Z | 1.632 | 12 |
| 66 | MP2A | Mx | .001 | 12 |
| 67 | MP2B | X | 3.626 | 12 |
| 68 | MP2B | Z | 2.094 | 12 |
| 69 | MP2B | Mx | -.000182 | 12 |
| 70 | MP2C | X | 2.645 | 12 |
| 71 | MP2C | Z | 1.527 | 12 |
| 72 | MP2C | Mx | -.001 | 12 |
| 73 | MP1A | X | 2.517 | 12 |
| 74 | MP1A | Z | 1.453 | 12 |
| 75 | MP1A | Mx | .001 | 12 |
| 76 | MP1B | X | 3.623 | 12 |

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 77 | MP1B | Z | 2.092 | 12 |
| 78 | MP1B | Mx | -.000182 | 12 |
| 79 | MP1C | X | 2.266 | 12 |
| 80 | MP1C | Z | 1.308 | 12 |
| 81 | MP1C | Mx | -.001 | 12 |
| 82 | MP1A | X | 4.356 | 6 |
| 83 | MP1A | Z | 2.515 | 6 |
| 84 | MP1A | Mx | -.002 | 6 |
| 85 | MP1A | X | 4.356 | 42 |
| 86 | MP1A | Z | 2.515 | 42 |
| 87 | MP1A | Mx | -.002 | 42 |
| 88 | MP1C | X | 4.764 | 6 |
| 89 | MP1C | Z | 2.75 | 6 |
| 90 | MP1C | Mx | .002 | 6 |
| 91 | MP1C | X | 4.764 | 42 |
| 92 | MP1C | Z | 2.75 | 42 |
| 93 | MP1C | Mx | .002 | 42 |
| 94 | MP5A | X | 4.356 | 6 |
| 95 | MP5A | Z | 2.515 | 6 |
| 96 | MP5A | Mx | -.002 | 6 |
| 97 | MP5A | X | 4.356 | 42 |
| 98 | MP5A | Z | 2.515 | 42 |
| 99 | MP5A | Mx | -.002 | 42 |
| 100 | MP5C | X | 4.764 | 6 |
| 101 | MP5C | Z | 2.75 | 6 |
| 102 | MP5C | Mx | .002 | 6 |
| 103 | MP5C | X | 4.764 | 42 |
| 104 | MP5C | Z | 2.75 | 42 |
| 105 | MP5C | Mx | .002 | 42 |
| 106 | MP1B | X | 3.933 | 12 |
| 107 | MP1B | Z | 2.271 | 12 |
| 108 | MP1B | Mx | .000198 | 12 |
| 109 | MP1B | X | 3.933 | 42 |
| 110 | MP1B | Z | 2.271 | 42 |
| 111 | MP1B | Mx | .000198 | 42 |
| 112 | MP5B | X | 3.933 | 12 |
| 113 | MP5B | Z | 2.271 | 12 |
| 114 | MP5B | Mx | .000198 | 12 |
| 115 | MP5B | X | 3.933 | 42 |
| 116 | MP5B | Z | 2.271 | 42 |
| 117 | MP5B | Mx | .000198 | 42 |
| 118 | MP5B | X | 1.948 | 3 |
| 119 | MP5B | Z | 1.125 | 3 |
| 120 | MP5B | Mx | 9.8e-5 | 3 |

Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 4.803 | 6 |
| 2 | MP2A | Z | 8.319 | 6 |
| 3 | MP2A | Mx | .004 | 6 |
| 4 | MP2A | X | 4.803 | 42 |



Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 57 | MP2A | Mx | .000271 | 42 |
| 58 | MP2B | X | .641 | 42 |
| 59 | MP2B | Z | 1.111 | 42 |
| 60 | MP2B | Mx | .000271 | 42 |
| 61 | MP2C | X | .291 | 42 |
| 62 | MP2C | Z | .503 | 42 |
| 63 | MP2C | Mx | -.000289 | 42 |
| 64 | MP2A | X | 1.975 | 12 |
| 65 | MP2A | Z | 3.42 | 12 |
| 66 | MP2A | Mx | .000835 | 12 |
| 67 | MP2B | X | 1.975 | 12 |
| 68 | MP2B | Z | 3.42 | 12 |
| 69 | MP2B | Mx | .000834 | 12 |
| 70 | MP2C | X | 1.408 | 12 |
| 71 | MP2C | Z | 2.439 | 12 |
| 72 | MP2C | Mx | -.001 | 12 |
| 73 | MP1A | X | 1.927 | 12 |
| 74 | MP1A | Z | 3.338 | 12 |
| 75 | MP1A | Mx | .000814 | 12 |
| 76 | MP1B | X | 1.927 | 12 |
| 77 | MP1B | Z | 3.338 | 12 |
| 78 | MP1B | Mx | .000815 | 12 |
| 79 | MP1C | X | 1.144 | 12 |
| 80 | MP1C | Z | 1.981 | 12 |
| 81 | MP1C | Mx | -.001 | 12 |
| 82 | MP1A | X | 1.744 | 6 |
| 83 | MP1A | Z | 3.021 | 6 |
| 84 | MP1A | Mx | -.000737 | 6 |
| 85 | MP1A | X | 1.744 | 42 |
| 86 | MP1A | Z | 3.021 | 42 |
| 87 | MP1A | Mx | -.000737 | 42 |
| 88 | MP1C | X | 3.018 | 6 |
| 89 | MP1C | Z | 5.227 | 6 |
| 90 | MP1C | Mx | .003 | 6 |
| 91 | MP1C | X | 3.018 | 42 |
| 92 | MP1C | Z | 5.227 | 42 |
| 93 | MP1C | Mx | .003 | 42 |
| 94 | MP5A | X | 1.744 | 6 |
| 95 | MP5A | Z | 3.021 | 6 |
| 96 | MP5A | Mx | -.000737 | 6 |
| 97 | MP5A | X | 1.744 | 42 |
| 98 | MP5A | Z | 3.021 | 42 |
| 99 | MP5A | Mx | -.000737 | 42 |
| 100 | MP5C | X | 3.018 | 6 |
| 101 | MP5C | Z | 5.227 | 6 |
| 102 | MP5C | Mx | .003 | 6 |
| 103 | MP5C | X | 3.018 | 42 |
| 104 | MP5C | Z | 5.227 | 42 |
| 105 | MP5C | Mx | .003 | 42 |
| 106 | MP1B | X | 2.229 | 12 |
| 107 | MP1B | Z | 3.861 | 12 |
| 108 | MP1B | Mx | -.000942 | 12 |

Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 109 | MP1B | X | 2.229 | 42 |
| 110 | MP1B | Z | 3.861 | 42 |
| 111 | MP1B | Mx | -.000942 | 42 |
| 112 | MP5B | X | 2.229 | 12 |
| 113 | MP5B | Z | 3.861 | 12 |
| 114 | MP5B | Mx | -.000942 | 12 |
| 115 | MP5B | X | 2.229 | 42 |
| 116 | MP5B | Z | 3.861 | 42 |
| 117 | MP5B | Mx | -.000942 | 42 |
| 118 | MP5B | X | 1.176 | 3 |
| 119 | MP5B | Z | 2.037 | 3 |
| 120 | MP5B | Mx | -.000497 | 3 |

Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 6 |
| 2 | MP2A | Z | 10.207 | 6 |
| 3 | MP2A | Mx | .007 | 6 |
| 4 | MP2A | X | 0 | 42 |
| 5 | MP2A | Z | 10.207 | 42 |
| 6 | MP2A | Mx | .007 | 42 |
| 7 | MP2B | X | 0 | 6 |
| 8 | MP2B | Z | 7.877 | 6 |
| 9 | MP2B | Mx | -.006 | 6 |
| 10 | MP2B | X | 0 | 42 |
| 11 | MP2B | Z | 7.877 | 42 |
| 12 | MP2B | Mx | -.006 | 42 |
| 13 | MP2C | X | 0 | 6 |
| 14 | MP2C | Z | 7.877 | 6 |
| 15 | MP2C | Mx | .000214 | 6 |
| 16 | MP2C | X | 0 | 42 |
| 17 | MP2C | Z | 7.877 | 42 |
| 18 | MP2C | Mx | .000214 | 42 |
| 19 | MP2A | X | 0 | 6 |
| 20 | MP2A | Z | 10.207 | 6 |
| 21 | MP2A | Mx | -.006 | 6 |
| 22 | MP2A | X | 0 | 42 |
| 23 | MP2A | Z | 10.207 | 42 |
| 24 | MP2A | Mx | -.006 | 42 |
| 25 | MP2B | X | 0 | 6 |
| 26 | MP2B | Z | 7.877 | 6 |
| 27 | MP2B | Mx | -.000214 | 6 |
| 28 | MP2B | X | 0 | 42 |
| 29 | MP2B | Z | 7.877 | 42 |
| 30 | MP2B | Mx | -.000214 | 42 |
| 31 | MP2C | X | 0 | 6 |
| 32 | MP2C | Z | 7.877 | 6 |
| 33 | MP2C | Mx | .006 | 6 |
| 34 | MP2C | X | 0 | 42 |
| 35 | MP2C | Z | 7.877 | 42 |
| 36 | MP2C | Mx | .006 | 42 |

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 37 | MP3A | X | 0 | 12 |
| 38 | MP3A | Z | 5.251 | 12 |
| 39 | MP3A | Mx | .000229 | 12 |
| 40 | MP3A | X | 0 | 36 |
| 41 | MP3A | Z | 5.251 | 36 |
| 42 | MP3A | Mx | .000229 | 36 |
| 43 | MP3B | X | 0 | 12 |
| 44 | MP3B | Z | 3.121 | 12 |
| 45 | MP3B | Mx | -.001 | 12 |
| 46 | MP3B | X | 0 | 36 |
| 47 | MP3B | Z | 3.121 | 36 |
| 48 | MP3B | Mx | -.001 | 36 |
| 49 | MP3C | X | 0 | 12 |
| 50 | MP3C | Z | 3.121 | 12 |
| 51 | MP3C | Mx | .001 | 12 |
| 52 | MP3C | X | 0 | 36 |
| 53 | MP3C | Z | 3.121 | 36 |
| 54 | MP3C | Mx | .001 | 36 |
| 55 | MP2A | X | 0 | 42 |
| 56 | MP2A | Z | 1.43 | 42 |
| 57 | MP2A | Mx | -6.2e-5 | 42 |
| 58 | MP2B | X | 0 | 42 |
| 59 | MP2B | Z | .858 | 42 |
| 60 | MP2B | Mx | .000351 | 42 |
| 61 | MP2C | X | 0 | 42 |
| 62 | MP2C | Z | .858 | 42 |
| 63 | MP2C | Mx | -.000351 | 42 |
| 64 | MP2A | X | 0 | 12 |
| 65 | MP2A | Z | 4.187 | 12 |
| 66 | MP2A | Mx | -.000182 | 12 |
| 67 | MP2B | X | 0 | 12 |
| 68 | MP2B | Z | 3.264 | 12 |
| 69 | MP2B | Mx | .001 | 12 |
| 70 | MP2C | X | 0 | 12 |
| 71 | MP2C | Z | 3.264 | 12 |
| 72 | MP2C | Mx | -.001 | 12 |
| 73 | MP1A | X | 0 | 12 |
| 74 | MP1A | Z | 4.183 | 12 |
| 75 | MP1A | Mx | -.000182 | 12 |
| 76 | MP1B | X | 0 | 12 |
| 77 | MP1B | Z | 2.906 | 12 |
| 78 | MP1B | Mx | .001 | 12 |
| 79 | MP1C | X | 0 | 12 |
| 80 | MP1C | Z | 2.906 | 12 |
| 81 | MP1C | Mx | -.001 | 12 |
| 82 | MP1A | X | 0 | 6 |
| 83 | MP1A | Z | 2.953 | 6 |
| 84 | MP1A | Mx | .000129 | 6 |
| 85 | MP1A | X | 0 | 42 |
| 86 | MP1A | Z | 2.953 | 42 |
| 87 | MP1A | Mx | .000129 | 42 |
| 88 | MP1C | X | 0 | 6 |

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 89 | MP1C | Z | 5.03 | 6 |
| 90 | MP1C | Mx | .002 | 6 |
| 91 | MP1C | X | 0 | 42 |
| 92 | MP1C | Z | 5.03 | 42 |
| 93 | MP1C | Mx | .002 | 42 |
| 94 | MP5A | X | 0 | 6 |
| 95 | MP5A | Z | 2.953 | 6 |
| 96 | MP5A | Mx | .000129 | 6 |
| 97 | MP5A | X | 0 | 42 |
| 98 | MP5A | Z | 2.953 | 42 |
| 99 | MP5A | Mx | .000129 | 42 |
| 100 | MP5C | X | 0 | 6 |
| 101 | MP5C | Z | 5.03 | 6 |
| 102 | MP5C | Mx | .002 | 6 |
| 103 | MP5C | X | 0 | 42 |
| 104 | MP5C | Z | 5.03 | 42 |
| 105 | MP5C | Mx | .002 | 42 |
| 106 | MP1B | X | 0 | 12 |
| 107 | MP1B | Z | 4.218 | 12 |
| 108 | MP1B | Mx | -.002 | 12 |
| 109 | MP1B | X | 0 | 42 |
| 110 | MP1B | Z | 4.218 | 42 |
| 111 | MP1B | Mx | -.002 | 42 |
| 112 | MP5B | X | 0 | 12 |
| 113 | MP5B | Z | 4.218 | 12 |
| 114 | MP5B | Mx | -.002 | 12 |
| 115 | MP5B | X | 0 | 42 |
| 116 | MP5B | Z | 4.218 | 42 |
| 117 | MP5B | Mx | -.002 | 42 |
| 118 | MP5B | X | 0 | 3 |
| 119 | MP5B | Z | 2.646 | 3 |
| 120 | MP5B | Mx | -.001 | 3 |

Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -4.539 | 6 |
| 2 | MP2A | Z | 7.862 | 6 |
| 3 | MP2A | Mx | .008 | 6 |
| 4 | MP2A | X | -4.539 | 42 |
| 5 | MP2A | Z | 7.862 | 42 |
| 6 | MP2A | Mx | .008 | 42 |
| 7 | MP2B | X | -3.374 | 6 |
| 8 | MP2B | Z | 5.844 | 6 |
| 9 | MP2B | Mx | -.004 | 6 |
| 10 | MP2B | X | -3.374 | 42 |
| 11 | MP2B | Z | 5.844 | 42 |
| 12 | MP2B | Mx | -.004 | 42 |
| 13 | MP2C | X | -4.803 | 6 |
| 14 | MP2C | Z | 8.319 | 6 |
| 15 | MP2C | Mx | -.004 | 6 |
| 16 | MP2C | X | -4.803 | 42 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 69 | MP2B | Mx | .001 | 12 |
| 70 | MP2C | X | -1.975 | 12 |
| 71 | MP2C | Z | 3.42 | 12 |
| 72 | MP2C | Mx | -.000834 | 12 |
| 73 | MP1A | X | -1.782 | 12 |
| 74 | MP1A | Z | 3.087 | 12 |
| 75 | MP1A | Mx | -.001 | 12 |
| 76 | MP1B | X | -1.144 | 12 |
| 77 | MP1B | Z | 1.981 | 12 |
| 78 | MP1B | Mx | .001 | 12 |
| 79 | MP1C | X | -1.927 | 12 |
| 80 | MP1C | Z | 3.338 | 12 |
| 81 | MP1C | Mx | -.000815 | 12 |
| 82 | MP1A | X | -1.98 | 6 |
| 83 | MP1A | Z | 3.429 | 6 |
| 84 | MP1A | Mx | .001 | 6 |
| 85 | MP1A | X | -1.98 | 42 |
| 86 | MP1A | Z | 3.429 | 42 |
| 87 | MP1A | Mx | .001 | 42 |
| 88 | MP1C | X | -1.744 | 6 |
| 89 | MP1C | Z | 3.021 | 6 |
| 90 | MP1C | Mx | .000737 | 6 |
| 91 | MP1C | X | -1.744 | 42 |
| 92 | MP1C | Z | 3.021 | 42 |
| 93 | MP1C | Mx | .000737 | 42 |
| 94 | MP5A | X | -1.98 | 6 |
| 95 | MP5A | Z | 3.429 | 6 |
| 96 | MP5A | Mx | .001 | 6 |
| 97 | MP5A | X | -1.98 | 42 |
| 98 | MP5A | Z | 3.429 | 42 |
| 99 | MP5A | Mx | .001 | 42 |
| 100 | MP5C | X | -1.744 | 6 |
| 101 | MP5C | Z | 3.021 | 6 |
| 102 | MP5C | Mx | .000737 | 6 |
| 103 | MP5C | X | -1.744 | 42 |
| 104 | MP5C | Z | 3.021 | 42 |
| 105 | MP5C | Mx | .000737 | 42 |
| 106 | MP1B | X | -2.03 | 12 |
| 107 | MP1B | Z | 3.517 | 12 |
| 108 | MP1B | Mx | -.002 | 12 |
| 109 | MP1B | X | -2.03 | 42 |
| 110 | MP1B | Z | 3.517 | 42 |
| 111 | MP1B | Mx | -.002 | 42 |
| 112 | MP5B | X | -2.03 | 12 |
| 113 | MP5B | Z | 3.517 | 12 |
| 114 | MP5B | Mx | -.002 | 12 |
| 115 | MP5B | X | -2.03 | 42 |
| 116 | MP5B | Z | 3.517 | 42 |
| 117 | MP5B | Mx | -.002 | 42 |
| 118 | MP5B | X | -1.419 | 3 |
| 119 | MP5B | Z | 2.458 | 3 |
| 120 | MP5B | Mx | -.001 | 3 |



Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP2C | Mx | .002 | 6 |
| 34 | MP2C | X | -9.078 | 42 |
| 35 | MP2C | Z | 0 | 42 |
| 36 | MP2C | Mx | .002 | 42 |
| 37 | MP3A | X | -2.09 | 12 |
| 38 | MP3A | Z | 0 | 12 |
| 39 | MP3A | Mx | .001 | 12 |
| 40 | MP3A | X | -2.09 | 36 |
| 41 | MP3A | Z | 0 | 36 |
| 42 | MP3A | Mx | .001 | 36 |
| 43 | MP3B | X | -4.219 | 12 |
| 44 | MP3B | Z | 0 | 12 |
| 45 | MP3B | Mx | -.001 | 12 |
| 46 | MP3B | X | -4.219 | 36 |
| 47 | MP3B | Z | 0 | 36 |
| 48 | MP3B | Mx | -.001 | 36 |
| 49 | MP3C | X | -4.219 | 12 |
| 50 | MP3C | Z | 0 | 12 |
| 51 | MP3C | Mx | -.001 | 12 |
| 52 | MP3C | X | -4.219 | 36 |
| 53 | MP3C | Z | 0 | 36 |
| 54 | MP3C | Mx | -.001 | 36 |
| 55 | MP2A | X | -.581 | 42 |
| 56 | MP2A | Z | 0 | 42 |
| 57 | MP2A | Mx | -.000289 | 42 |
| 58 | MP2B | X | -1.153 | 42 |
| 59 | MP2B | Z | 0 | 42 |
| 60 | MP2B | Mx | .000331 | 42 |
| 61 | MP2C | X | -1.153 | 42 |
| 62 | MP2C | Z | 0 | 42 |
| 63 | MP2C | Mx | .000331 | 42 |
| 64 | MP2A | X | -2.817 | 12 |
| 65 | MP2A | Z | 0 | 12 |
| 66 | MP2A | Mx | -.001 | 12 |
| 67 | MP2B | X | -3.74 | 12 |
| 68 | MP2B | Z | 0 | 12 |
| 69 | MP2B | Mx | .001 | 12 |
| 70 | MP2C | X | -3.74 | 12 |
| 71 | MP2C | Z | 0 | 12 |
| 72 | MP2C | Mx | .001 | 12 |
| 73 | MP1A | X | -2.287 | 12 |
| 74 | MP1A | Z | 0 | 12 |
| 75 | MP1A | Mx | -.001 | 12 |
| 76 | MP1B | X | -3.564 | 12 |
| 77 | MP1B | Z | 0 | 12 |
| 78 | MP1B | Mx | .001 | 12 |
| 79 | MP1C | X | -3.564 | 12 |
| 80 | MP1C | Z | 0 | 12 |
| 81 | MP1C | Mx | .001 | 12 |
| 82 | MP1A | X | -6.036 | 6 |
| 83 | MP1A | Z | 0 | 6 |
| 84 | MP1A | Mx | .003 | 6 |



Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in, %] |
|-----|--------------|-----------|--------------------|-----------------|
| 85 | MP1A | X | -6.036 | 42 |
| 86 | MP1A | Z | 0 | 42 |
| 87 | MP1A | Mx | .003 | 42 |
| 88 | MP1C | X | -3.959 | 6 |
| 89 | MP1C | Z | 0 | 6 |
| 90 | MP1C | Mx | -.001 | 6 |
| 91 | MP1C | X | -3.959 | 42 |
| 92 | MP1C | Z | 0 | 42 |
| 93 | MP1C | Mx | -.001 | 42 |
| 94 | MP5A | X | -6.036 | 6 |
| 95 | MP5A | Z | 0 | 6 |
| 96 | MP5A | Mx | .003 | 6 |
| 97 | MP5A | X | -6.036 | 42 |
| 98 | MP5A | Z | 0 | 42 |
| 99 | MP5A | Mx | .003 | 42 |
| 100 | MP5C | X | -3.959 | 6 |
| 101 | MP5C | Z | 0 | 6 |
| 102 | MP5C | Mx | -.001 | 6 |
| 103 | MP5C | X | -3.959 | 42 |
| 104 | MP5C | Z | 0 | 42 |
| 105 | MP5C | Mx | -.001 | 42 |
| 106 | MP1B | X | -4.385 | 12 |
| 107 | MP1B | Z | 0 | 12 |
| 108 | MP1B | Mx | -.001 | 12 |
| 109 | MP1B | X | -4.385 | 42 |
| 110 | MP1B | Z | 0 | 42 |
| 111 | MP1B | Mx | -.001 | 42 |
| 112 | MP5B | X | -4.385 | 12 |
| 113 | MP5B | Z | 0 | 12 |
| 114 | MP5B | Mx | -.001 | 12 |
| 115 | MP5B | X | -4.385 | 42 |
| 116 | MP5B | Z | 0 | 42 |
| 117 | MP5B | Mx | -.001 | 42 |
| 118 | MP5B | X | -2.442 | 3 |
| 119 | MP5B | Z | 0 | 3 |
| 120 | MP5B | Mx | -.0007 | 3 |

Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in, %] |
|----|--------------|-----------|--------------------|-----------------|
| 1 | MP2A | X | -6.821 | 6 |
| 2 | MP2A | Z | -3.938 | 6 |
| 3 | MP2A | Mx | .000214 | 6 |
| 4 | MP2A | X | -6.821 | 42 |
| 5 | MP2A | Z | -3.938 | 42 |
| 6 | MP2A | Mx | .000214 | 42 |
| 7 | MP2B | X | -8.839 | 6 |
| 8 | MP2B | Z | -5.103 | 6 |
| 9 | MP2B | Mx | .006 | 6 |
| 10 | MP2B | X | -8.839 | 42 |
| 11 | MP2B | Z | -5.103 | 42 |
| 12 | MP2B | Mx | .006 | 42 |

Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 13 | MP2C | X | -6.364 | 6 |
| 14 | MP2C | Z | -3.674 | 6 |
| 15 | MP2C | Mx | -.005 | 6 |
| 16 | MP2C | X | -6.364 | 42 |
| 17 | MP2C | Z | -3.674 | 42 |
| 18 | MP2C | Mx | -.005 | 42 |
| 19 | MP2A | X | -6.821 | 6 |
| 20 | MP2A | Z | -3.938 | 6 |
| 21 | MP2A | Mx | .006 | 6 |
| 22 | MP2A | X | -6.821 | 42 |
| 23 | MP2A | Z | -3.938 | 42 |
| 24 | MP2A | Mx | .006 | 42 |
| 25 | MP2B | X | -8.839 | 6 |
| 26 | MP2B | Z | -5.103 | 6 |
| 27 | MP2B | Mx | -.007 | 6 |
| 28 | MP2B | X | -8.839 | 42 |
| 29 | MP2B | Z | -5.103 | 42 |
| 30 | MP2B | Mx | -.007 | 42 |
| 31 | MP2C | X | -6.364 | 6 |
| 32 | MP2C | Z | -3.674 | 6 |
| 33 | MP2C | Mx | -.001 | 6 |
| 34 | MP2C | X | -6.364 | 42 |
| 35 | MP2C | Z | -3.674 | 42 |
| 36 | MP2C | Mx | -.001 | 42 |
| 37 | MP3A | X | -2.703 | 12 |
| 38 | MP3A | Z | -1.561 | 12 |
| 39 | MP3A | Mx | .001 | 12 |
| 40 | MP3A | X | -2.703 | 36 |
| 41 | MP3A | Z | -1.561 | 36 |
| 42 | MP3A | Mx | .001 | 36 |
| 43 | MP3B | X | -4.547 | 12 |
| 44 | MP3B | Z | -2.625 | 12 |
| 45 | MP3B | Mx | -.000229 | 12 |
| 46 | MP3B | X | -4.547 | 36 |
| 47 | MP3B | Z | -2.625 | 36 |
| 48 | MP3B | Mx | -.000229 | 36 |
| 49 | MP3C | X | -2.285 | 12 |
| 50 | MP3C | Z | -1.319 | 12 |
| 51 | MP3C | Mx | -.001 | 12 |
| 52 | MP3C | X | -2.285 | 36 |
| 53 | MP3C | Z | -1.319 | 36 |
| 54 | MP3C | Mx | -.001 | 36 |
| 55 | MP2A | X | -.743 | 42 |
| 56 | MP2A | Z | -.429 | 42 |
| 57 | MP2A | Mx | -.000351 | 42 |
| 58 | MP2B | X | -1.238 | 42 |
| 59 | MP2B | Z | -.715 | 42 |
| 60 | MP2B | Mx | 6.2e-5 | 42 |
| 61 | MP2C | X | -.631 | 42 |
| 62 | MP2C | Z | -.364 | 42 |
| 63 | MP2C | Mx | .00033 | 42 |
| 64 | MP2A | X | -2.827 | 12 |

Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 65 | MP2A | Z | -1.632 | 12 |
| 66 | MP2A | Mx | -.001 | 12 |
| 67 | MP2B | X | -3.626 | 12 |
| 68 | MP2B | Z | -2.094 | 12 |
| 69 | MP2B | Mx | .000182 | 12 |
| 70 | MP2C | X | -2.645 | 12 |
| 71 | MP2C | Z | -1.527 | 12 |
| 72 | MP2C | Mx | .001 | 12 |
| 73 | MP1A | X | -2.517 | 12 |
| 74 | MP1A | Z | -1.453 | 12 |
| 75 | MP1A | Mx | -.001 | 12 |
| 76 | MP1B | X | -3.623 | 12 |
| 77 | MP1B | Z | -2.092 | 12 |
| 78 | MP1B | Mx | .000182 | 12 |
| 79 | MP1C | X | -2.266 | 12 |
| 80 | MP1C | Z | -1.308 | 12 |
| 81 | MP1C | Mx | .001 | 12 |
| 82 | MP1A | X | -4.356 | 6 |
| 83 | MP1A | Z | -2.515 | 6 |
| 84 | MP1A | Mx | .002 | 6 |
| 85 | MP1A | X | -4.356 | 42 |
| 86 | MP1A | Z | -2.515 | 42 |
| 87 | MP1A | Mx | .002 | 42 |
| 88 | MP1C | X | -4.764 | 6 |
| 89 | MP1C | Z | -2.75 | 6 |
| 90 | MP1C | Mx | -.002 | 6 |
| 91 | MP1C | X | -4.764 | 42 |
| 92 | MP1C | Z | -2.75 | 42 |
| 93 | MP1C | Mx | -.002 | 42 |
| 94 | MP5A | X | -4.356 | 6 |
| 95 | MP5A | Z | -2.515 | 6 |
| 96 | MP5A | Mx | .002 | 6 |
| 97 | MP5A | X | -4.356 | 42 |
| 98 | MP5A | Z | -2.515 | 42 |
| 99 | MP5A | Mx | .002 | 42 |
| 100 | MP5C | X | -4.764 | 6 |
| 101 | MP5C | Z | -2.75 | 6 |
| 102 | MP5C | Mx | -.002 | 6 |
| 103 | MP5C | X | -4.764 | 42 |
| 104 | MP5C | Z | -2.75 | 42 |
| 105 | MP5C | Mx | -.002 | 42 |
| 106 | MP1B | X | -3.933 | 12 |
| 107 | MP1B | Z | -2.271 | 12 |
| 108 | MP1B | Mx | -.000198 | 12 |
| 109 | MP1B | X | -3.933 | 42 |
| 110 | MP1B | Z | -2.271 | 42 |
| 111 | MP1B | Mx | -.000198 | 42 |
| 112 | MP5B | X | -3.933 | 12 |
| 113 | MP5B | Z | -2.271 | 12 |
| 114 | MP5B | Mx | -.000198 | 12 |
| 115 | MP5B | X | -3.933 | 42 |
| 116 | MP5B | Z | -2.271 | 42 |



Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|-----|--------------|-----------|--------------------|----------------|
| 117 | MP5B | Mx | -.000198 | 42 |
| 118 | MP5B | X | -1.948 | 3 |
| 119 | MP5B | Z | -1.125 | 3 |
| 120 | MP5B | Mx | -9.8e-5 | 3 |

Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[in,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -4.803 | 6 |
| 2 | MP2A | Z | -8.319 | 6 |
| 3 | MP2A | Mx | -.004 | 6 |
| 4 | MP2A | X | -4.803 | 42 |
| 5 | MP2A | Z | -8.319 | 42 |
| 6 | MP2A | Mx | -.004 | 42 |
| 7 | MP2B | X | -4.803 | 6 |
| 8 | MP2B | Z | -8.319 | 6 |
| 9 | MP2B | Mx | .008 | 6 |
| 10 | MP2B | X | -4.803 | 42 |
| 11 | MP2B | Z | -8.319 | 42 |
| 12 | MP2B | Mx | .008 | 42 |
| 13 | MP2C | X | -3.374 | 6 |
| 14 | MP2C | Z | -5.844 | 6 |
| 15 | MP2C | Mx | -.003 | 6 |
| 16 | MP2C | X | -3.374 | 42 |
| 17 | MP2C | Z | -5.844 | 42 |
| 18 | MP2C | Mx | -.003 | 42 |
| 19 | MP2A | X | -4.803 | 6 |
| 20 | MP2A | Z | -8.319 | 6 |
| 21 | MP2A | Mx | .008 | 6 |
| 22 | MP2A | X | -4.803 | 42 |
| 23 | MP2A | Z | -8.319 | 42 |
| 24 | MP2A | Mx | .008 | 42 |
| 25 | MP2B | X | -4.803 | 6 |
| 26 | MP2B | Z | -8.319 | 6 |
| 27 | MP2B | Mx | -.004 | 6 |
| 28 | MP2B | X | -4.803 | 42 |
| 29 | MP2B | Z | -8.319 | 42 |
| 30 | MP2B | Mx | -.004 | 42 |
| 31 | MP2C | X | -3.374 | 6 |
| 32 | MP2C | Z | -5.844 | 6 |
| 33 | MP2C | Mx | -.004 | 6 |
| 34 | MP2C | X | -3.374 | 42 |
| 35 | MP2C | Z | -5.844 | 42 |
| 36 | MP2C | Mx | -.004 | 42 |
| 37 | MP3A | X | -2.351 | 12 |
| 38 | MP3A | Z | -4.072 | 12 |
| 39 | MP3A | Mx | .000994 | 12 |
| 40 | MP3A | X | -2.351 | 36 |
| 41 | MP3A | Z | -4.072 | 36 |
| 42 | MP3A | Mx | .000994 | 36 |
| 43 | MP3B | X | -2.351 | 12 |
| 44 | MP3B | Z | -4.072 | 12 |



Member Distributed Loads (BLC 40 : Structure Di) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 6 | M10A | Y | -9.845 | -9.845 | 0 %100 |
| 7 | FACE | Y | -7.459 | -7.459 | 0 %100 |
| 8 | MP1A | Y | -5.118 | -5.118 | 0 %100 |
| 9 | MP2A | Y | -5.118 | -5.118 | 0 %100 |
| 10 | MP3A | Y | -5.118 | -5.118 | 0 %100 |
| 11 | MP4A | Y | -5.118 | -5.118 | 0 %100 |
| 12 | MP5A | Y | -5.118 | -5.118 | 0 %100 |
| 13 | M22 | Y | -10.369 | -10.369 | 0 %100 |
| 14 | M23 | Y | -10.369 | -10.369 | 0 %100 |
| 15 | M26 | Y | -9.845 | -9.845 | 0 %100 |
| 16 | M27 | Y | -9.845 | -9.845 | 0 %100 |
| 17 | M28 | Y | -8.179 | -8.179 | 0 %100 |
| 18 | M31 | Y | -9.845 | -9.845 | 0 %100 |
| 19 | M32 | Y | -7.459 | -7.459 | 0 %100 |
| 20 | MP1C | Y | -5.118 | -5.118 | 0 %100 |
| 21 | MP2C | Y | -5.118 | -5.118 | 0 %100 |
| 22 | MP3C | Y | -5.118 | -5.118 | 0 %100 |
| 23 | MP4C | Y | -5.118 | -5.118 | 0 %100 |
| 24 | MP5C | Y | -5.118 | -5.118 | 0 %100 |
| 25 | M43 | Y | -10.369 | -10.369 | 0 %100 |
| 26 | M44 | Y | -10.369 | -10.369 | 0 %100 |
| 27 | M47 | Y | -9.845 | -9.845 | 0 %100 |
| 28 | M48 | Y | -9.845 | -9.845 | 0 %100 |
| 29 | M49 | Y | -8.179 | -8.179 | 0 %100 |
| 30 | M52 | Y | -9.845 | -9.845 | 0 %100 |
| 31 | M53 | Y | -7.459 | -7.459 | 0 %100 |
| 32 | MP1B | Y | -5.118 | -5.118 | 0 %100 |
| 33 | MP2B | Y | -5.118 | -5.118 | 0 %100 |
| 34 | MP3B | Y | -5.118 | -5.118 | 0 %100 |
| 35 | MP4B | Y | -5.118 | -5.118 | 0 %100 |
| 36 | MP5B | Y | -5.118 | -5.118 | 0 %100 |
| 37 | M64 | Y | -9.845 | -9.845 | 0 %100 |
| 38 | M65 | Y | -9.845 | -9.845 | 0 %100 |
| 39 | M66 | Y | -9.845 | -9.845 | 0 %100 |
| 40 | M67 | Y | -9.845 | -9.845 | 0 %100 |
| 41 | M68 | Y | -9.845 | -9.845 | 0 %100 |
| 42 | M69 | Y | -9.845 | -9.845 | 0 %100 |
| 43 | M73A | Y | -5.838 | -5.838 | 0 %100 |
| 44 | M79 | Y | -6.79 | -6.79 | 0 %100 |
| 45 | M80 | Y | -6.79 | -6.79 | 0 %100 |
| 46 | M81 | Y | -5.838 | -5.838 | 0 %100 |
| 47 | M89 | Y | -5.838 | -5.838 | 0 %100 |
| 48 | M104 | Y | -5.118 | -5.118 | 0 %100 |
| 49 | M105 | Y | -5.118 | -5.118 | 0 %100 |
| 50 | M95 | Y | -6.79 | -6.79 | 0 %100 |
| 51 | M96 | Y | -6.79 | -6.79 | 0 %100 |
| 52 | M97 | Y | -6.79 | -6.79 | 0 %100 |
| 53 | M98 | Y | -6.79 | -6.79 | 0 %100 |
| 54 | M90A | Y | -7.808 | -7.808 | 0 %100 |
| 55 | M91A | Y | -7.808 | -7.808 | 0 %100 |
| 56 | M92A | Y | -7.808 | -7.808 | 0 %100 |
| 57 | M93A | Y | -5.118 | -5.118 | 0 %100 |



Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in,%] | End Location[in,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M2 | X | 0 | 0 | 0 | %100 |
| 4 | M2 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M6 | X | 0 | 0 | 0 | %100 |
| 8 | M6 | Z | 0 | 0 | 0 | %100 |
| 9 | M8 | X | 0 | 0 | 0 | %100 |
| 10 | M8 | Z | -11.31 | -11.31 | 0 | %100 |
| 11 | M10A | X | 0 | 0 | 0 | %100 |
| 12 | M10A | Z | 0 | 0 | 0 | %100 |
| 13 | FACE | X | 0 | 0 | 0 | %100 |
| 14 | FACE | Z | -13.778 | -13.778 | 0 | %100 |
| 15 | MP1A | X | 0 | 0 | 0 | %100 |
| 16 | MP1A | Z | -9.404 | -9.404 | 0 | %100 |
| 17 | MP2A | X | 0 | 0 | 0 | %100 |
| 18 | MP2A | Z | -9.404 | -9.404 | 0 | %100 |
| 19 | MP3A | X | 0 | 0 | 0 | %100 |
| 20 | MP3A | Z | -9.404 | -9.404 | 0 | %100 |
| 21 | MP4A | X | 0 | 0 | 0 | %100 |
| 22 | MP4A | Z | -9.404 | -9.404 | 0 | %100 |
| 23 | MP5A | X | 0 | 0 | 0 | %100 |
| 24 | MP5A | Z | -9.404 | -9.404 | 0 | %100 |
| 25 | M22 | X | 0 | 0 | 0 | %100 |
| 26 | M22 | Z | -1.485 | -1.485 | 0 | %100 |
| 27 | M23 | X | 0 | 0 | 0 | %100 |
| 28 | M23 | Z | -1.485 | -1.485 | 0 | %100 |
| 29 | M26 | X | 0 | 0 | 0 | %100 |
| 30 | M26 | Z | -8.442 | -8.442 | 0 | %100 |
| 31 | M27 | X | 0 | 0 | 0 | %100 |
| 32 | M27 | Z | -8.442 | -8.442 | 0 | %100 |
| 33 | M28 | X | 0 | 0 | 0 | %100 |
| 34 | M28 | Z | -11.31 | -11.31 | 0 | %100 |
| 35 | M31 | X | 0 | 0 | 0 | %100 |
| 36 | M31 | Z | -9.583 | -9.583 | 0 | %100 |
| 37 | M32 | X | 0 | 0 | 0 | %100 |
| 38 | M32 | Z | -3.444 | -3.444 | 0 | %100 |
| 39 | MP1C | X | 0 | 0 | 0 | %100 |
| 40 | MP1C | Z | -9.404 | -9.404 | 0 | %100 |
| 41 | MP2C | X | 0 | 0 | 0 | %100 |
| 42 | MP2C | Z | -9.404 | -9.404 | 0 | %100 |
| 43 | MP3C | X | 0 | 0 | 0 | %100 |
| 44 | MP3C | Z | -9.404 | -9.404 | 0 | %100 |
| 45 | MP4C | X | 0 | 0 | 0 | %100 |
| 46 | MP4C | Z | -9.404 | -9.404 | 0 | %100 |
| 47 | MP5C | X | 0 | 0 | 0 | %100 |
| 48 | MP5C | Z | -9.404 | -9.404 | 0 | %100 |
| 49 | M43 | X | 0 | 0 | 0 | %100 |
| 50 | M43 | Z | -1.485 | -1.485 | 0 | %100 |
| 51 | M44 | X | 0 | 0 | 0 | %100 |
| 52 | M44 | Z | -1.485 | -1.485 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 53 | M47 | X | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | -8.442 | -8.442 | 0 | %100 |
| 55 | M48 | X | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | -8.442 | -8.442 | 0 | %100 |
| 57 | M49 | X | 0 | 0 | 0 | %100 |
| 58 | M49 | Z | -11.31 | -11.31 | 0 | %100 |
| 59 | M52 | X | 0 | 0 | 0 | %100 |
| 60 | M52 | Z | -9.583 | -9.583 | 0 | %100 |
| 61 | M53 | X | 0 | 0 | 0 | %100 |
| 62 | M53 | Z | -3.444 | -3.444 | 0 | %100 |
| 63 | MP1B | X | 0 | 0 | 0 | %100 |
| 64 | MP1B | Z | -9.404 | -9.404 | 0 | %100 |
| 65 | MP2B | X | 0 | 0 | 0 | %100 |
| 66 | MP2B | Z | -9.404 | -9.404 | 0 | %100 |
| 67 | MP3B | X | 0 | 0 | 0 | %100 |
| 68 | MP3B | Z | -9.404 | -9.404 | 0 | %100 |
| 69 | MP4B | X | 0 | 0 | 0 | %100 |
| 70 | MP4B | Z | -9.404 | -9.404 | 0 | %100 |
| 71 | MP5B | X | 0 | 0 | 0 | %100 |
| 72 | MP5B | Z | -9.404 | -9.404 | 0 | %100 |
| 73 | M64 | X | 0 | 0 | 0 | %100 |
| 74 | M64 | Z | -5.032 | -5.032 | 0 | %100 |
| 75 | M65 | X | 0 | 0 | 0 | %100 |
| 76 | M65 | Z | -5.032 | -5.032 | 0 | %100 |
| 77 | M66 | X | 0 | 0 | 0 | %100 |
| 78 | M66 | Z | -5.032 | -5.032 | 0 | %100 |
| 79 | M67 | X | 0 | 0 | 0 | %100 |
| 80 | M67 | Z | -20.129 | -20.129 | 0 | %100 |
| 81 | M68 | X | 0 | 0 | 0 | %100 |
| 82 | M68 | Z | -20.129 | -20.129 | 0 | %100 |
| 83 | M69 | X | 0 | 0 | 0 | %100 |
| 84 | M69 | Z | -5.032 | -5.032 | 0 | %100 |
| 85 | M73A | X | 0 | 0 | 0 | %100 |
| 86 | M73A | Z | -11.384 | -11.384 | 0 | %100 |
| 87 | M79 | X | 0 | 0 | 0 | %100 |
| 88 | M79 | Z | -5.556 | -5.556 | 0 | %100 |
| 89 | M80 | X | 0 | 0 | 0 | %100 |
| 90 | M80 | Z | -5.556 | -5.556 | 0 | %100 |
| 91 | M81 | X | 0 | 0 | 0 | %100 |
| 92 | M81 | Z | -2.846 | -2.846 | 0 | %100 |
| 93 | M89 | X | 0 | 0 | 0 | %100 |
| 94 | M89 | Z | -2.846 | -2.846 | 0 | %100 |
| 95 | M104 | X | 0 | 0 | 0 | %100 |
| 96 | M104 | Z | -2.611 | -2.611 | 0 | %100 |
| 97 | M105 | X | 0 | 0 | 0 | %100 |
| 98 | M105 | Z | -8.846 | -8.846 | 0 | %100 |
| 99 | M95 | X | 0 | 0 | 0 | %100 |
| 100 | M95 | Z | -16.394 | -16.394 | 0 | %100 |
| 101 | M96 | X | 0 | 0 | 0 | %100 |
| 102 | M96 | Z | -3.312 | -3.312 | 0 | %100 |
| 103 | M97 | X | 0 | 0 | 0 | %100 |
| 104 | M97 | Z | -3.312 | -3.312 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 105 | M98 | X | 0 | 0 | 0 | % 100 |
| 106 | M98 | Z | -16.394 | -16.394 | 0 | % 100 |
| 107 | M90A | X | 0 | 0 | 0 | % 100 |
| 108 | M90A | Z | -.839 | -.839 | 0 | % 100 |
| 109 | M91A | X | 0 | 0 | 0 | % 100 |
| 110 | M91A | Z | -6.099 | -6.099 | 0 | % 100 |
| 111 | M92A | X | 0 | 0 | 0 | % 100 |
| 112 | M92A | Z | -11.462 | -11.462 | 0 | % 100 |
| 113 | M93A | X | 0 | 0 | 0 | % 100 |
| 114 | M93A | Z | -2.611 | -2.611 | 0 | % 100 |

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | .247 | .247 | 0 | % 100 |
| 2 | M1 | Z | -.429 | -.429 | 0 | % 100 |
| 3 | M2 | X | .247 | .247 | 0 | % 100 |
| 4 | M2 | Z | -.429 | -.429 | 0 | % 100 |
| 5 | M5 | X | 1.407 | 1.407 | 0 | % 100 |
| 6 | M5 | Z | -2.437 | -2.437 | 0 | % 100 |
| 7 | M6 | X | 1.407 | 1.407 | 0 | % 100 |
| 8 | M6 | Z | -2.437 | -2.437 | 0 | % 100 |
| 9 | M8 | X | 5.655 | 5.655 | 0 | % 100 |
| 10 | M8 | Z | -9.795 | -9.795 | 0 | % 100 |
| 11 | M10A | X | 1.597 | 1.597 | 0 | % 100 |
| 12 | M10A | Z | -2.766 | -2.766 | 0 | % 100 |
| 13 | FACE | X | 5.167 | 5.167 | 0 | % 100 |
| 14 | FACE | Z | -8.949 | -8.949 | 0 | % 100 |
| 15 | MP1A | X | 4.702 | 4.702 | 0 | % 100 |
| 16 | MP1A | Z | -8.144 | -8.144 | 0 | % 100 |
| 17 | MP2A | X | 4.702 | 4.702 | 0 | % 100 |
| 18 | MP2A | Z | -8.144 | -8.144 | 0 | % 100 |
| 19 | MP3A | X | 4.702 | 4.702 | 0 | % 100 |
| 20 | MP3A | Z | -8.144 | -8.144 | 0 | % 100 |
| 21 | MP4A | X | 4.702 | 4.702 | 0 | % 100 |
| 22 | MP4A | Z | -8.144 | -8.144 | 0 | % 100 |
| 23 | MP5A | X | 4.702 | 4.702 | 0 | % 100 |
| 24 | MP5A | Z | -8.144 | -8.144 | 0 | % 100 |
| 25 | M22 | X | .247 | .247 | 0 | % 100 |
| 26 | M22 | Z | -.429 | -.429 | 0 | % 100 |
| 27 | M23 | X | .247 | .247 | 0 | % 100 |
| 28 | M23 | Z | -.429 | -.429 | 0 | % 100 |
| 29 | M26 | X | 1.407 | 1.407 | 0 | % 100 |
| 30 | M26 | Z | -2.437 | -2.437 | 0 | % 100 |
| 31 | M27 | X | 1.407 | 1.407 | 0 | % 100 |
| 32 | M27 | Z | -2.437 | -2.437 | 0 | % 100 |
| 33 | M28 | X | 5.655 | 5.655 | 0 | % 100 |
| 34 | M28 | Z | -9.795 | -9.795 | 0 | % 100 |
| 35 | M31 | X | 1.597 | 1.597 | 0 | % 100 |
| 36 | M31 | Z | -2.766 | -2.766 | 0 | % 100 |
| 37 | M32 | X | 5.167 | 5.167 | 0 | % 100 |
| 38 | M32 | Z | -8.949 | -8.949 | 0 | % 100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 39 | MP1C | X | 4.702 | 4.702 | 0 | % 100 |
| 40 | MP1C | Z | -8.144 | -8.144 | 0 | % 100 |
| 41 | MP2C | X | 4.702 | 4.702 | 0 | % 100 |
| 42 | MP2C | Z | -8.144 | -8.144 | 0 | % 100 |
| 43 | MP3C | X | 4.702 | 4.702 | 0 | % 100 |
| 44 | MP3C | Z | -8.144 | -8.144 | 0 | % 100 |
| 45 | MP4C | X | 4.702 | 4.702 | 0 | % 100 |
| 46 | MP4C | Z | -8.144 | -8.144 | 0 | % 100 |
| 47 | MP5C | X | 4.702 | 4.702 | 0 | % 100 |
| 48 | MP5C | Z | -8.144 | -8.144 | 0 | % 100 |
| 49 | M43 | X | .99 | .99 | 0 | % 100 |
| 50 | M43 | Z | -1.715 | -1.715 | 0 | % 100 |
| 51 | M44 | X | .99 | .99 | 0 | % 100 |
| 52 | M44 | Z | -1.715 | -1.715 | 0 | % 100 |
| 53 | M47 | X | 5.628 | 5.628 | 0 | % 100 |
| 54 | M47 | Z | -9.748 | -9.748 | 0 | % 100 |
| 55 | M48 | X | 5.628 | 5.628 | 0 | % 100 |
| 56 | M48 | Z | -9.748 | -9.748 | 0 | % 100 |
| 57 | M49 | X | 5.655 | 5.655 | 0 | % 100 |
| 58 | M49 | Z | -9.795 | -9.795 | 0 | % 100 |
| 59 | M52 | X | 6.389 | 6.389 | 0 | % 100 |
| 60 | M52 | Z | -11.066 | -11.066 | 0 | % 100 |
| 61 | M53 | X | 0 | 0 | 0 | % 100 |
| 62 | M53 | Z | 0 | 0 | 0 | % 100 |
| 63 | MP1B | X | 4.702 | 4.702 | 0 | % 100 |
| 64 | MP1B | Z | -8.144 | -8.144 | 0 | % 100 |
| 65 | MP2B | X | 4.702 | 4.702 | 0 | % 100 |
| 66 | MP2B | Z | -8.144 | -8.144 | 0 | % 100 |
| 67 | MP3B | X | 4.702 | 4.702 | 0 | % 100 |
| 68 | MP3B | Z | -8.144 | -8.144 | 0 | % 100 |
| 69 | MP4B | X | 4.702 | 4.702 | 0 | % 100 |
| 70 | MP4B | Z | -8.144 | -8.144 | 0 | % 100 |
| 71 | MP5B | X | 4.702 | 4.702 | 0 | % 100 |
| 72 | MP5B | Z | -8.144 | -8.144 | 0 | % 100 |
| 73 | M64 | X | 7.548 | 7.548 | 0 | % 100 |
| 74 | M64 | Z | -13.074 | -13.074 | 0 | % 100 |
| 75 | M65 | X | 0 | 0 | 0 | % 100 |
| 76 | M65 | Z | 0 | 0 | 0 | % 100 |
| 77 | M66 | X | 0 | 0 | 0 | % 100 |
| 78 | M66 | Z | 0 | 0 | 0 | % 100 |
| 79 | M67 | X | 7.548 | 7.548 | 0 | % 100 |
| 80 | M67 | Z | -13.074 | -13.074 | 0 | % 100 |
| 81 | M68 | X | 7.548 | 7.548 | 0 | % 100 |
| 82 | M68 | Z | -13.074 | -13.074 | 0 | % 100 |
| 83 | M69 | X | 7.548 | 7.548 | 0 | % 100 |
| 84 | M69 | Z | -13.074 | -13.074 | 0 | % 100 |
| 85 | M73A | X | 4.269 | 4.269 | 0 | % 100 |
| 86 | M73A | Z | -7.394 | -7.394 | 0 | % 100 |
| 87 | M79 | X | .224 | .224 | 0 | % 100 |
| 88 | M79 | Z | -.387 | -.387 | 0 | % 100 |
| 89 | M80 | X | 6.765 | 6.765 | 0 | % 100 |
| 90 | M80 | Z | -11.717 | -11.717 | 0 | % 100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 91 | M81 | X | 4.269 | 4.269 | 0 | % 100 |
| 92 | M81 | Z | -7.394 | -7.394 | 0 | % 100 |
| 93 | M89 | X | 0 | 0 | 0 | % 100 |
| 94 | M89 | Z | 0 | 0 | 0 | % 100 |
| 95 | M104 | X | .011 | .011 | 0 | % 100 |
| 96 | M104 | Z | -.019 | -.019 | 0 | % 100 |
| 97 | M105 | X | 3.512 | 3.512 | 0 | % 100 |
| 98 | M105 | Z | -6.082 | -6.082 | 0 | % 100 |
| 99 | M95 | X | 6.765 | 6.765 | 0 | % 100 |
| 100 | M95 | Z | -11.717 | -11.717 | 0 | % 100 |
| 101 | M96 | X | .224 | .224 | 0 | % 100 |
| 102 | M96 | Z | -.387 | -.387 | 0 | % 100 |
| 103 | M97 | X | 5.643 | 5.643 | 0 | % 100 |
| 104 | M97 | Z | -9.773 | -9.773 | 0 | % 100 |
| 105 | M98 | X | 5.643 | 5.643 | 0 | % 100 |
| 106 | M98 | Z | -9.773 | -9.773 | 0 | % 100 |
| 107 | M90A | X | 3.084 | 3.084 | 0 | % 100 |
| 108 | M90A | Z | -5.341 | -5.341 | 0 | % 100 |
| 109 | M91A | X | .402 | .402 | 0 | % 100 |
| 110 | M91A | Z | -.697 | -.697 | 0 | % 100 |
| 111 | M92A | X | 5.714 | 5.714 | 0 | % 100 |
| 112 | M92A | Z | -9.897 | -9.897 | 0 | % 100 |
| 113 | M93A | X | .011 | .011 | 0 | % 100 |
| 114 | M93A | Z | -.019 | -.019 | 0 | % 100 |

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | 1.286 | 1.286 | 0 | % 100 |
| 2 | M1 | Z | -.742 | -.742 | 0 | % 100 |
| 3 | M2 | X | 1.286 | 1.286 | 0 | % 100 |
| 4 | M2 | Z | -.742 | -.742 | 0 | % 100 |
| 5 | M5 | X | 7.311 | 7.311 | 0 | % 100 |
| 6 | M5 | Z | -4.221 | -4.221 | 0 | % 100 |
| 7 | M6 | X | 7.311 | 7.311 | 0 | % 100 |
| 8 | M6 | Z | -4.221 | -4.221 | 0 | % 100 |
| 9 | M8 | X | 9.795 | 9.795 | 0 | % 100 |
| 10 | M8 | Z | -5.655 | -5.655 | 0 | % 100 |
| 11 | M10A | X | 8.299 | 8.299 | 0 | % 100 |
| 12 | M10A | Z | -4.792 | -4.792 | 0 | % 100 |
| 13 | FACE | X | 2.983 | 2.983 | 0 | % 100 |
| 14 | FACE | Z | -1.722 | -1.722 | 0 | % 100 |
| 15 | MP1A | X | 8.144 | 8.144 | 0 | % 100 |
| 16 | MP1A | Z | -4.702 | -4.702 | 0 | % 100 |
| 17 | MP2A | X | 8.144 | 8.144 | 0 | % 100 |
| 18 | MP2A | Z | -4.702 | -4.702 | 0 | % 100 |
| 19 | MP3A | X | 8.144 | 8.144 | 0 | % 100 |
| 20 | MP3A | Z | -4.702 | -4.702 | 0 | % 100 |
| 21 | MP4A | X | 8.144 | 8.144 | 0 | % 100 |
| 22 | MP4A | Z | -4.702 | -4.702 | 0 | % 100 |
| 23 | MP5A | X | 8.144 | 8.144 | 0 | % 100 |
| 24 | MP5A | Z | -4.702 | -4.702 | 0 | % 100 |

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in,%] | End Location[in,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 25 | M22 | X | 0 | 0 | 0 | %100 |
| 26 | M22 | Z | 0 | 0 | 0 | %100 |
| 27 | M23 | X | 0 | 0 | 0 | %100 |
| 28 | M23 | Z | 0 | 0 | 0 | %100 |
| 29 | M26 | X | 0 | 0 | 0 | %100 |
| 30 | M26 | Z | 0 | 0 | 0 | %100 |
| 31 | M27 | X | 0 | 0 | 0 | %100 |
| 32 | M27 | Z | 0 | 0 | 0 | %100 |
| 33 | M28 | X | 9.795 | 9.795 | 0 | %100 |
| 34 | M28 | Z | -5.655 | -5.655 | 0 | %100 |
| 35 | M31 | X | 0 | 0 | 0 | %100 |
| 36 | M31 | Z | 0 | 0 | 0 | %100 |
| 37 | M32 | X | 11.932 | 11.932 | 0 | %100 |
| 38 | M32 | Z | -6.889 | -6.889 | 0 | %100 |
| 39 | MP1C | X | 8.144 | 8.144 | 0 | %100 |
| 40 | MP1C | Z | -4.702 | -4.702 | 0 | %100 |
| 41 | MP2C | X | 8.144 | 8.144 | 0 | %100 |
| 42 | MP2C | Z | -4.702 | -4.702 | 0 | %100 |
| 43 | MP3C | X | 8.144 | 8.144 | 0 | %100 |
| 44 | MP3C | Z | -4.702 | -4.702 | 0 | %100 |
| 45 | MP4C | X | 8.144 | 8.144 | 0 | %100 |
| 46 | MP4C | Z | -4.702 | -4.702 | 0 | %100 |
| 47 | MP5C | X | 8.144 | 8.144 | 0 | %100 |
| 48 | MP5C | Z | -4.702 | -4.702 | 0 | %100 |
| 49 | M43 | X | 1.286 | 1.286 | 0 | %100 |
| 50 | M43 | Z | -.742 | -.742 | 0 | %100 |
| 51 | M44 | X | 1.286 | 1.286 | 0 | %100 |
| 52 | M44 | Z | -.742 | -.742 | 0 | %100 |
| 53 | M47 | X | 7.311 | 7.311 | 0 | %100 |
| 54 | M47 | Z | -4.221 | -4.221 | 0 | %100 |
| 55 | M48 | X | 7.311 | 7.311 | 0 | %100 |
| 56 | M48 | Z | -4.221 | -4.221 | 0 | %100 |
| 57 | M49 | X | 9.795 | 9.795 | 0 | %100 |
| 58 | M49 | Z | -5.655 | -5.655 | 0 | %100 |
| 59 | M52 | X | 8.299 | 8.299 | 0 | %100 |
| 60 | M52 | Z | -4.792 | -4.792 | 0 | %100 |
| 61 | M53 | X | 2.983 | 2.983 | 0 | %100 |
| 62 | M53 | Z | -1.722 | -1.722 | 0 | %100 |
| 63 | MP1B | X | 8.144 | 8.144 | 0 | %100 |
| 64 | MP1B | Z | -4.702 | -4.702 | 0 | %100 |
| 65 | MP2B | X | 8.144 | 8.144 | 0 | %100 |
| 66 | MP2B | Z | -4.702 | -4.702 | 0 | %100 |
| 67 | MP3B | X | 8.144 | 8.144 | 0 | %100 |
| 68 | MP3B | Z | -4.702 | -4.702 | 0 | %100 |
| 69 | MP4B | X | 8.144 | 8.144 | 0 | %100 |
| 70 | MP4B | Z | -4.702 | -4.702 | 0 | %100 |
| 71 | MP5B | X | 8.144 | 8.144 | 0 | %100 |
| 72 | MP5B | Z | -4.702 | -4.702 | 0 | %100 |
| 73 | M64 | X | 17.432 | 17.432 | 0 | %100 |
| 74 | M64 | Z | -10.064 | -10.064 | 0 | %100 |
| 75 | M65 | X | 4.358 | 4.358 | 0 | %100 |
| 76 | M65 | Z | -2.516 | -2.516 | 0 | %100 |

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] | |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|------|
| 77 | M66 | X | 4.358 | 4.358 | 0 | %100 |
| 78 | M66 | Z | -2.516 | -2.516 | 0 | %100 |
| 79 | M67 | X | 4.358 | 4.358 | 0 | %100 |
| 80 | M67 | Z | -2.516 | -2.516 | 0 | %100 |
| 81 | M68 | X | 4.358 | 4.358 | 0 | %100 |
| 82 | M68 | Z | -2.516 | -2.516 | 0 | %100 |
| 83 | M69 | X | 17.432 | 17.432 | 0 | %100 |
| 84 | M69 | Z | -10.064 | -10.064 | 0 | %100 |
| 85 | M73A | X | 2.465 | 2.465 | 0 | %100 |
| 86 | M73A | Z | -1.423 | -1.423 | 0 | %100 |
| 87 | M79 | X | 2.868 | 2.868 | 0 | %100 |
| 88 | M79 | Z | -1.656 | -1.656 | 0 | %100 |
| 89 | M80 | X | 14.198 | 14.198 | 0 | %100 |
| 90 | M80 | Z | -8.197 | -8.197 | 0 | %100 |
| 91 | M81 | X | 9.859 | 9.859 | 0 | %100 |
| 92 | M81 | Z | -5.692 | -5.692 | 0 | %100 |
| 93 | M89 | X | 2.465 | 2.465 | 0 | %100 |
| 94 | M89 | Z | -1.423 | -1.423 | 0 | %100 |
| 95 | M104 | X | 1.598 | 1.598 | 0 | %100 |
| 96 | M104 | Z | -.923 | -.923 | 0 | %100 |
| 97 | M105 | X | 2.261 | 2.261 | 0 | %100 |
| 98 | M105 | Z | -1.305 | -1.305 | 0 | %100 |
| 99 | M95 | X | 4.812 | 4.812 | 0 | %100 |
| 100 | M95 | Z | -2.778 | -2.778 | 0 | %100 |
| 101 | M96 | X | 4.812 | 4.812 | 0 | %100 |
| 102 | M96 | Z | -2.778 | -2.778 | 0 | %100 |
| 103 | M97 | X | 14.198 | 14.198 | 0 | %100 |
| 104 | M97 | Z | -8.197 | -8.197 | 0 | %100 |
| 105 | M98 | X | 2.868 | 2.868 | 0 | %100 |
| 106 | M98 | Z | -1.656 | -1.656 | 0 | %100 |
| 107 | M90A | X | 9.927 | 9.927 | 0 | %100 |
| 108 | M90A | Z | -5.731 | -5.731 | 0 | %100 |
| 109 | M91A | X | .727 | .727 | 0 | %100 |
| 110 | M91A | Z | -.419 | -.419 | 0 | %100 |
| 111 | M92A | X | 5.282 | 5.282 | 0 | %100 |
| 112 | M92A | Z | -3.05 | -3.05 | 0 | %100 |
| 113 | M93A | X | 1.598 | 1.598 | 0 | %100 |
| 114 | M93A | Z | -.923 | -.923 | 0 | %100 |

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] | |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|------|
| 1 | M1 | X | 1.98 | 1.98 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M2 | X | 1.98 | 1.98 | 0 | %100 |
| 4 | M2 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 11.256 | 11.256 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M6 | X | 11.256 | 11.256 | 0 | %100 |
| 8 | M6 | Z | 0 | 0 | 0 | %100 |
| 9 | M8 | X | 11.31 | 11.31 | 0 | %100 |
| 10 | M8 | Z | 0 | 0 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 11 | M10A | X | 12.777 | 12.777 | 0 %100 |
| 12 | M10A | Z | 0 | 0 | 0 %100 |
| 13 | FACE | X | 0 | 0 | 0 %100 |
| 14 | FACE | Z | 0 | 0 | 0 %100 |
| 15 | MP1A | X | 9.404 | 9.404 | 0 %100 |
| 16 | MP1A | Z | 0 | 0 | 0 %100 |
| 17 | MP2A | X | 9.404 | 9.404 | 0 %100 |
| 18 | MP2A | Z | 0 | 0 | 0 %100 |
| 19 | MP3A | X | 9.404 | 9.404 | 0 %100 |
| 20 | MP3A | Z | 0 | 0 | 0 %100 |
| 21 | MP4A | X | 9.404 | 9.404 | 0 %100 |
| 22 | MP4A | Z | 0 | 0 | 0 %100 |
| 23 | MP5A | X | 9.404 | 9.404 | 0 %100 |
| 24 | MP5A | Z | 0 | 0 | 0 %100 |
| 25 | M22 | X | .495 | .495 | 0 %100 |
| 26 | M22 | Z | 0 | 0 | 0 %100 |
| 27 | M23 | X | .495 | .495 | 0 %100 |
| 28 | M23 | Z | 0 | 0 | 0 %100 |
| 29 | M26 | X | 2.814 | 2.814 | 0 %100 |
| 30 | M26 | Z | 0 | 0 | 0 %100 |
| 31 | M27 | X | 2.814 | 2.814 | 0 %100 |
| 32 | M27 | Z | 0 | 0 | 0 %100 |
| 33 | M28 | X | 11.31 | 11.31 | 0 %100 |
| 34 | M28 | Z | 0 | 0 | 0 %100 |
| 35 | M31 | X | 3.194 | 3.194 | 0 %100 |
| 36 | M31 | Z | 0 | 0 | 0 %100 |
| 37 | M32 | X | 10.333 | 10.333 | 0 %100 |
| 38 | M32 | Z | 0 | 0 | 0 %100 |
| 39 | MP1C | X | 9.404 | 9.404 | 0 %100 |
| 40 | MP1C | Z | 0 | 0 | 0 %100 |
| 41 | MP2C | X | 9.404 | 9.404 | 0 %100 |
| 42 | MP2C | Z | 0 | 0 | 0 %100 |
| 43 | MP3C | X | 9.404 | 9.404 | 0 %100 |
| 44 | MP3C | Z | 0 | 0 | 0 %100 |
| 45 | MP4C | X | 9.404 | 9.404 | 0 %100 |
| 46 | MP4C | Z | 0 | 0 | 0 %100 |
| 47 | MP5C | X | 9.404 | 9.404 | 0 %100 |
| 48 | MP5C | Z | 0 | 0 | 0 %100 |
| 49 | M43 | X | .495 | .495 | 0 %100 |
| 50 | M43 | Z | 0 | 0 | 0 %100 |
| 51 | M44 | X | .495 | .495 | 0 %100 |
| 52 | M44 | Z | 0 | 0 | 0 %100 |
| 53 | M47 | X | 2.814 | 2.814 | 0 %100 |
| 54 | M47 | Z | 0 | 0 | 0 %100 |
| 55 | M48 | X | 2.814 | 2.814 | 0 %100 |
| 56 | M48 | Z | 0 | 0 | 0 %100 |
| 57 | M49 | X | 11.31 | 11.31 | 0 %100 |
| 58 | M49 | Z | 0 | 0 | 0 %100 |
| 59 | M52 | X | 3.194 | 3.194 | 0 %100 |
| 60 | M52 | Z | 0 | 0 | 0 %100 |
| 61 | M53 | X | 10.333 | 10.333 | 0 %100 |
| 62 | M53 | Z | 0 | 0 | 0 %100 |



Company : Maser Consulting
Designer :
Job Number :
Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
2:42 PM
Checked By: _____

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | 1.286 | 1.286 | 0 | % 100 |
| 2 | M1 | Z | .742 | .742 | 0 | % 100 |
| 3 | M2 | X | 1.286 | 1.286 | 0 | % 100 |
| 4 | M2 | Z | .742 | .742 | 0 | % 100 |
| 5 | M5 | X | 7.311 | 7.311 | 0 | % 100 |
| 6 | M5 | Z | 4.221 | 4.221 | 0 | % 100 |
| 7 | M6 | X | 7.311 | 7.311 | 0 | % 100 |
| 8 | M6 | Z | 4.221 | 4.221 | 0 | % 100 |
| 9 | M8 | X | 9.795 | 9.795 | 0 | % 100 |
| 10 | M8 | Z | 5.655 | 5.655 | 0 | % 100 |
| 11 | M10A | X | 8.299 | 8.299 | 0 | % 100 |
| 12 | M10A | Z | 4.792 | 4.792 | 0 | % 100 |
| 13 | FACE | X | 2.983 | 2.983 | 0 | % 100 |
| 14 | FACE | Z | 1.722 | 1.722 | 0 | % 100 |
| 15 | MP1A | X | 8.144 | 8.144 | 0 | % 100 |
| 16 | MP1A | Z | 4.702 | 4.702 | 0 | % 100 |
| 17 | MP2A | X | 8.144 | 8.144 | 0 | % 100 |
| 18 | MP2A | Z | 4.702 | 4.702 | 0 | % 100 |
| 19 | MP3A | X | 8.144 | 8.144 | 0 | % 100 |
| 20 | MP3A | Z | 4.702 | 4.702 | 0 | % 100 |
| 21 | MP4A | X | 8.144 | 8.144 | 0 | % 100 |
| 22 | MP4A | Z | 4.702 | 4.702 | 0 | % 100 |
| 23 | MP5A | X | 8.144 | 8.144 | 0 | % 100 |
| 24 | MP5A | Z | 4.702 | 4.702 | 0 | % 100 |
| 25 | M22 | X | 1.286 | 1.286 | 0 | % 100 |
| 26 | M22 | Z | .742 | .742 | 0 | % 100 |
| 27 | M23 | X | 1.286 | 1.286 | 0 | % 100 |
| 28 | M23 | Z | .742 | .742 | 0 | % 100 |
| 29 | M26 | X | 7.311 | 7.311 | 0 | % 100 |
| 30 | M26 | Z | 4.221 | 4.221 | 0 | % 100 |
| 31 | M27 | X | 7.311 | 7.311 | 0 | % 100 |
| 32 | M27 | Z | 4.221 | 4.221 | 0 | % 100 |
| 33 | M28 | X | 9.795 | 9.795 | 0 | % 100 |
| 34 | M28 | Z | 5.655 | 5.655 | 0 | % 100 |
| 35 | M31 | X | 8.299 | 8.299 | 0 | % 100 |
| 36 | M31 | Z | 4.792 | 4.792 | 0 | % 100 |
| 37 | M32 | X | 2.983 | 2.983 | 0 | % 100 |
| 38 | M32 | Z | 1.722 | 1.722 | 0 | % 100 |
| 39 | MP1C | X | 8.144 | 8.144 | 0 | % 100 |
| 40 | MP1C | Z | 4.702 | 4.702 | 0 | % 100 |
| 41 | MP2C | X | 8.144 | 8.144 | 0 | % 100 |
| 42 | MP2C | Z | 4.702 | 4.702 | 0 | % 100 |
| 43 | MP3C | X | 8.144 | 8.144 | 0 | % 100 |
| 44 | MP3C | Z | 4.702 | 4.702 | 0 | % 100 |
| 45 | MP4C | X | 8.144 | 8.144 | 0 | % 100 |
| 46 | MP4C | Z | 4.702 | 4.702 | 0 | % 100 |
| 47 | MP5C | X | 8.144 | 8.144 | 0 | % 100 |
| 48 | MP5C | Z | 4.702 | 4.702 | 0 | % 100 |
| 49 | M43 | X | 0 | 0 | 0 | % 100 |
| 50 | M43 | Z | 0 | 0 | 0 | % 100 |
| 51 | M44 | X | 0 | 0 | 0 | % 100 |
| 52 | M44 | Z | 0 | 0 | 0 | % 100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 53 | M47 | X | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | 0 | 0 | 0 | %100 |
| 55 | M48 | X | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | 0 | 0 | 0 | %100 |
| 57 | M49 | X | 9.795 | 9.795 | 0 | %100 |
| 58 | M49 | Z | 5.655 | 5.655 | 0 | %100 |
| 59 | M52 | X | 0 | 0 | 0 | %100 |
| 60 | M52 | Z | 0 | 0 | 0 | %100 |
| 61 | M53 | X | 11.932 | 11.932 | 0 | %100 |
| 62 | M53 | Z | 6.889 | 6.889 | 0 | %100 |
| 63 | MP1B | X | 8.144 | 8.144 | 0 | %100 |
| 64 | MP1B | Z | 4.702 | 4.702 | 0 | %100 |
| 65 | MP2B | X | 8.144 | 8.144 | 0 | %100 |
| 66 | MP2B | Z | 4.702 | 4.702 | 0 | %100 |
| 67 | MP3B | X | 8.144 | 8.144 | 0 | %100 |
| 68 | MP3B | Z | 4.702 | 4.702 | 0 | %100 |
| 69 | MP4B | X | 8.144 | 8.144 | 0 | %100 |
| 70 | MP4B | Z | 4.702 | 4.702 | 0 | %100 |
| 71 | MP5B | X | 8.144 | 8.144 | 0 | %100 |
| 72 | MP5B | Z | 4.702 | 4.702 | 0 | %100 |
| 73 | M64 | X | 4.358 | 4.358 | 0 | %100 |
| 74 | M64 | Z | 2.516 | 2.516 | 0 | %100 |
| 75 | M65 | X | 17.432 | 17.432 | 0 | %100 |
| 76 | M65 | Z | 10.064 | 10.064 | 0 | %100 |
| 77 | M66 | X | 17.432 | 17.432 | 0 | %100 |
| 78 | M66 | Z | 10.064 | 10.064 | 0 | %100 |
| 79 | M67 | X | 4.358 | 4.358 | 0 | %100 |
| 80 | M67 | Z | 2.516 | 2.516 | 0 | %100 |
| 81 | M68 | X | 4.358 | 4.358 | 0 | %100 |
| 82 | M68 | Z | 2.516 | 2.516 | 0 | %100 |
| 83 | M69 | X | 4.358 | 4.358 | 0 | %100 |
| 84 | M69 | Z | 2.516 | 2.516 | 0 | %100 |
| 85 | M73A | X | 2.465 | 2.465 | 0 | %100 |
| 86 | M73A | Z | 1.423 | 1.423 | 0 | %100 |
| 87 | M79 | X | 14.198 | 14.198 | 0 | %100 |
| 88 | M79 | Z | 8.197 | 8.197 | 0 | %100 |
| 89 | M80 | X | 2.868 | 2.868 | 0 | %100 |
| 90 | M80 | Z | 1.656 | 1.656 | 0 | %100 |
| 91 | M81 | X | 2.465 | 2.465 | 0 | %100 |
| 92 | M81 | Z | 1.423 | 1.423 | 0 | %100 |
| 93 | M89 | X | 9.859 | 9.859 | 0 | %100 |
| 94 | M89 | Z | 5.692 | 5.692 | 0 | %100 |
| 95 | M104 | X | 7.661 | 7.661 | 0 | %100 |
| 96 | M104 | Z | 4.423 | 4.423 | 0 | %100 |
| 97 | M105 | X | 1.598 | 1.598 | 0 | %100 |
| 98 | M105 | Z | .923 | .923 | 0 | %100 |
| 99 | M95 | X | 2.868 | 2.868 | 0 | %100 |
| 100 | M95 | Z | 1.656 | 1.656 | 0 | %100 |
| 101 | M96 | X | 14.198 | 14.198 | 0 | %100 |
| 102 | M96 | Z | 8.197 | 8.197 | 0 | %100 |
| 103 | M97 | X | 4.812 | 4.812 | 0 | %100 |
| 104 | M97 | Z | 2.778 | 2.778 | 0 | %100 |



Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 105 | M98 | X | 4.812 | 4.812 | 0 | % 100 |
| 106 | M98 | Z | 2.778 | 2.778 | 0 | % 100 |
| 107 | M90A | X | 5.282 | 5.282 | 0 | % 100 |
| 108 | M90A | Z | 3.05 | 3.05 | 0 | % 100 |
| 109 | M91A | X | 9.927 | 9.927 | 0 | % 100 |
| 110 | M91A | Z | 5.731 | 5.731 | 0 | % 100 |
| 111 | M92A | X | .727 | .727 | 0 | % 100 |
| 112 | M92A | Z | .42 | .42 | 0 | % 100 |
| 113 | M93A | X | 7.661 | 7.661 | 0 | % 100 |
| 114 | M93A | Z | 4.423 | 4.423 | 0 | % 100 |

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | .247 | .247 | 0 | % 100 |
| 2 | M1 | Z | .429 | .429 | 0 | % 100 |
| 3 | M2 | X | .247 | .247 | 0 | % 100 |
| 4 | M2 | Z | .429 | .429 | 0 | % 100 |
| 5 | M5 | X | 1.407 | 1.407 | 0 | % 100 |
| 6 | M5 | Z | 2.437 | 2.437 | 0 | % 100 |
| 7 | M6 | X | 1.407 | 1.407 | 0 | % 100 |
| 8 | M6 | Z | 2.437 | 2.437 | 0 | % 100 |
| 9 | M8 | X | 5.655 | 5.655 | 0 | % 100 |
| 10 | M8 | Z | 9.795 | 9.795 | 0 | % 100 |
| 11 | M10A | X | 1.597 | 1.597 | 0 | % 100 |
| 12 | M10A | Z | 2.766 | 2.766 | 0 | % 100 |
| 13 | FACE | X | 5.167 | 5.167 | 0 | % 100 |
| 14 | FACE | Z | 8.949 | 8.949 | 0 | % 100 |
| 15 | MP1A | X | 4.702 | 4.702 | 0 | % 100 |
| 16 | MP1A | Z | 8.144 | 8.144 | 0 | % 100 |
| 17 | MP2A | X | 4.702 | 4.702 | 0 | % 100 |
| 18 | MP2A | Z | 8.144 | 8.144 | 0 | % 100 |
| 19 | MP3A | X | 4.702 | 4.702 | 0 | % 100 |
| 20 | MP3A | Z | 8.144 | 8.144 | 0 | % 100 |
| 21 | MP4A | X | 4.702 | 4.702 | 0 | % 100 |
| 22 | MP4A | Z | 8.144 | 8.144 | 0 | % 100 |
| 23 | MP5A | X | 4.702 | 4.702 | 0 | % 100 |
| 24 | MP5A | Z | 8.144 | 8.144 | 0 | % 100 |
| 25 | M22 | X | .99 | .99 | 0 | % 100 |
| 26 | M22 | Z | 1.715 | 1.715 | 0 | % 100 |
| 27 | M23 | X | .99 | .99 | 0 | % 100 |
| 28 | M23 | Z | 1.715 | 1.715 | 0 | % 100 |
| 29 | M26 | X | 5.628 | 5.628 | 0 | % 100 |
| 30 | M26 | Z | 9.748 | 9.748 | 0 | % 100 |
| 31 | M27 | X | 5.628 | 5.628 | 0 | % 100 |
| 32 | M27 | Z | 9.748 | 9.748 | 0 | % 100 |
| 33 | M28 | X | 5.655 | 5.655 | 0 | % 100 |
| 34 | M28 | Z | 9.795 | 9.795 | 0 | % 100 |
| 35 | M31 | X | 6.389 | 6.389 | 0 | % 100 |
| 36 | M31 | Z | 11.066 | 11.066 | 0 | % 100 |
| 37 | M32 | X | 0 | 0 | 0 | % 100 |
| 38 | M32 | Z | 0 | 0 | 0 | % 100 |



Company : Maser Consulting
Designer :
Job Number :
Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
2:42 PM
Checked By: _____

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 39 | MP1C | X | 4.702 | 4.702 | 0 | %100 |
| 40 | MP1C | Z | 8.144 | 8.144 | 0 | %100 |
| 41 | MP2C | X | 4.702 | 4.702 | 0 | %100 |
| 42 | MP2C | Z | 8.144 | 8.144 | 0 | %100 |
| 43 | MP3C | X | 4.702 | 4.702 | 0 | %100 |
| 44 | MP3C | Z | 8.144 | 8.144 | 0 | %100 |
| 45 | MP4C | X | 4.702 | 4.702 | 0 | %100 |
| 46 | MP4C | Z | 8.144 | 8.144 | 0 | %100 |
| 47 | MP5C | X | 4.702 | 4.702 | 0 | %100 |
| 48 | MP5C | Z | 8.144 | 8.144 | 0 | %100 |
| 49 | M43 | X | .247 | .247 | 0 | %100 |
| 50 | M43 | Z | .429 | .429 | 0 | %100 |
| 51 | M44 | X | .247 | .247 | 0 | %100 |
| 52 | M44 | Z | .429 | .429 | 0 | %100 |
| 53 | M47 | X | 1.407 | 1.407 | 0 | %100 |
| 54 | M47 | Z | 2.437 | 2.437 | 0 | %100 |
| 55 | M48 | X | 1.407 | 1.407 | 0 | %100 |
| 56 | M48 | Z | 2.437 | 2.437 | 0 | %100 |
| 57 | M49 | X | 5.655 | 5.655 | 0 | %100 |
| 58 | M49 | Z | 9.795 | 9.795 | 0 | %100 |
| 59 | M52 | X | 1.597 | 1.597 | 0 | %100 |
| 60 | M52 | Z | 2.766 | 2.766 | 0 | %100 |
| 61 | M53 | X | 5.167 | 5.167 | 0 | %100 |
| 62 | M53 | Z | 8.949 | 8.949 | 0 | %100 |
| 63 | MP1B | X | 4.702 | 4.702 | 0 | %100 |
| 64 | MP1B | Z | 8.144 | 8.144 | 0 | %100 |
| 65 | MP2B | X | 4.702 | 4.702 | 0 | %100 |
| 66 | MP2B | Z | 8.144 | 8.144 | 0 | %100 |
| 67 | MP3B | X | 4.702 | 4.702 | 0 | %100 |
| 68 | MP3B | Z | 8.144 | 8.144 | 0 | %100 |
| 69 | MP4B | X | 4.702 | 4.702 | 0 | %100 |
| 70 | MP4B | Z | 8.144 | 8.144 | 0 | %100 |
| 71 | MP5B | X | 4.702 | 4.702 | 0 | %100 |
| 72 | MP5B | Z | 8.144 | 8.144 | 0 | %100 |
| 73 | M64 | X | 0 | 0 | 0 | %100 |
| 74 | M64 | Z | 0 | 0 | 0 | %100 |
| 75 | M65 | X | 7.548 | 7.548 | 0 | %100 |
| 76 | M65 | Z | 13.074 | 13.074 | 0 | %100 |
| 77 | M66 | X | 7.548 | 7.548 | 0 | %100 |
| 78 | M66 | Z | 13.074 | 13.074 | 0 | %100 |
| 79 | M67 | X | 7.548 | 7.548 | 0 | %100 |
| 80 | M67 | Z | 13.074 | 13.074 | 0 | %100 |
| 81 | M68 | X | 7.548 | 7.548 | 0 | %100 |
| 82 | M68 | Z | 13.074 | 13.074 | 0 | %100 |
| 83 | M69 | X | 0 | 0 | 0 | %100 |
| 84 | M69 | Z | 0 | 0 | 0 | %100 |
| 85 | M73A | X | 4.269 | 4.269 | 0 | %100 |
| 86 | M73A | Z | 7.394 | 7.394 | 0 | %100 |
| 87 | M79 | X | 6.765 | 6.765 | 0 | %100 |
| 88 | M79 | Z | 11.717 | 11.717 | 0 | %100 |
| 89 | M80 | X | .224 | .224 | 0 | %100 |
| 90 | M80 | Z | .387 | .387 | 0 | %100 |



Company : Maser Consulting
Designer :
Job Number :
Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
2:42 PM
Checked By: _____

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 91 | M81 | X | 0 | 0 | 0 | % 100 |
| 92 | M81 | Z | 0 | 0 | 0 | % 100 |
| 93 | M89 | X | 4.269 | 4.269 | 0 | % 100 |
| 94 | M89 | Z | 7.394 | 7.394 | 0 | % 100 |
| 95 | M104 | X | 3.512 | 3.512 | 0 | % 100 |
| 96 | M104 | Z | 6.082 | 6.082 | 0 | % 100 |
| 97 | M105 | X | 3.129 | 3.129 | 0 | % 100 |
| 98 | M105 | Z | 5.419 | 5.419 | 0 | % 100 |
| 99 | M95 | X | 5.643 | 5.643 | 0 | % 100 |
| 100 | M95 | Z | 9.773 | 9.773 | 0 | % 100 |
| 101 | M96 | X | 5.643 | 5.643 | 0 | % 100 |
| 102 | M96 | Z | 9.773 | 9.773 | 0 | % 100 |
| 103 | M97 | X | .224 | .224 | 0 | % 100 |
| 104 | M97 | Z | .387 | .387 | 0 | % 100 |
| 105 | M98 | X | 6.765 | 6.765 | 0 | % 100 |
| 106 | M98 | Z | 11.717 | 11.717 | 0 | % 100 |
| 107 | M90A | X | .402 | .402 | 0 | % 100 |
| 108 | M90A | Z | .697 | .697 | 0 | % 100 |
| 109 | M91A | X | 5.714 | 5.714 | 0 | % 100 |
| 110 | M91A | Z | 9.897 | 9.897 | 0 | % 100 |
| 111 | M92A | X | 3.084 | 3.084 | 0 | % 100 |
| 112 | M92A | Z | 5.342 | 5.342 | 0 | % 100 |
| 113 | M93A | X | 3.512 | 3.512 | 0 | % 100 |
| 114 | M93A | Z | 6.082 | 6.082 | 0 | % 100 |

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | 0 | 0 | 0 | % 100 |
| 2 | M1 | Z | 0 | 0 | 0 | % 100 |
| 3 | M2 | X | 0 | 0 | 0 | % 100 |
| 4 | M2 | Z | 0 | 0 | 0 | % 100 |
| 5 | M5 | X | 0 | 0 | 0 | % 100 |
| 6 | M5 | Z | 0 | 0 | 0 | % 100 |
| 7 | M6 | X | 0 | 0 | 0 | % 100 |
| 8 | M6 | Z | 0 | 0 | 0 | % 100 |
| 9 | M8 | X | 0 | 0 | 0 | % 100 |
| 10 | M8 | Z | 11.31 | 11.31 | 0 | % 100 |
| 11 | M10A | X | 0 | 0 | 0 | % 100 |
| 12 | M10A | Z | 0 | 0 | 0 | % 100 |
| 13 | FACE | X | 0 | 0 | 0 | % 100 |
| 14 | FACE | Z | 13.778 | 13.778 | 0 | % 100 |
| 15 | MP1A | X | 0 | 0 | 0 | % 100 |
| 16 | MP1A | Z | 9.404 | 9.404 | 0 | % 100 |
| 17 | MP2A | X | 0 | 0 | 0 | % 100 |
| 18 | MP2A | Z | 9.404 | 9.404 | 0 | % 100 |
| 19 | MP3A | X | 0 | 0 | 0 | % 100 |
| 20 | MP3A | Z | 9.404 | 9.404 | 0 | % 100 |
| 21 | MP4A | X | 0 | 0 | 0 | % 100 |
| 22 | MP4A | Z | 9.404 | 9.404 | 0 | % 100 |
| 23 | MP5A | X | 0 | 0 | 0 | % 100 |
| 24 | MP5A | Z | 9.404 | 9.404 | 0 | % 100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 77 | M66 | X | 0 | 0 | 0 | %100 |
| 78 | M66 | Z | 5.032 | 5.032 | 0 | %100 |
| 79 | M67 | X | 0 | 0 | 0 | %100 |
| 80 | M67 | Z | 20.129 | 20.129 | 0 | %100 |
| 81 | M68 | X | 0 | 0 | 0 | %100 |
| 82 | M68 | Z | 20.129 | 20.129 | 0 | %100 |
| 83 | M69 | X | 0 | 0 | 0 | %100 |
| 84 | M69 | Z | 5.032 | 5.032 | 0 | %100 |
| 85 | M73A | X | 0 | 0 | 0 | %100 |
| 86 | M73A | Z | 11.384 | 11.384 | 0 | %100 |
| 87 | M79 | X | 0 | 0 | 0 | %100 |
| 88 | M79 | Z | 5.556 | 5.556 | 0 | %100 |
| 89 | M80 | X | 0 | 0 | 0 | %100 |
| 90 | M80 | Z | 5.556 | 5.556 | 0 | %100 |
| 91 | M81 | X | 0 | 0 | 0 | %100 |
| 92 | M81 | Z | 2.846 | 2.846 | 0 | %100 |
| 93 | M89 | X | 0 | 0 | 0 | %100 |
| 94 | M89 | Z | 2.846 | 2.846 | 0 | %100 |
| 95 | M104 | X | 0 | 0 | 0 | %100 |
| 96 | M104 | Z | 2.611 | 2.611 | 0 | %100 |
| 97 | M105 | X | 0 | 0 | 0 | %100 |
| 98 | M105 | Z | 8.846 | 8.846 | 0 | %100 |
| 99 | M95 | X | 0 | 0 | 0 | %100 |
| 100 | M95 | Z | 16.394 | 16.394 | 0 | %100 |
| 101 | M96 | X | 0 | 0 | 0 | %100 |
| 102 | M96 | Z | 3.312 | 3.312 | 0 | %100 |
| 103 | M97 | X | 0 | 0 | 0 | %100 |
| 104 | M97 | Z | 3.312 | 3.312 | 0 | %100 |
| 105 | M98 | X | 0 | 0 | 0 | %100 |
| 106 | M98 | Z | 16.394 | 16.394 | 0 | %100 |
| 107 | M90A | X | 0 | 0 | 0 | %100 |
| 108 | M90A | Z | .839 | .839 | 0 | %100 |
| 109 | M91A | X | 0 | 0 | 0 | %100 |
| 110 | M91A | Z | 6.099 | 6.099 | 0 | %100 |
| 111 | M92A | X | 0 | 0 | 0 | %100 |
| 112 | M92A | Z | 11.462 | 11.462 | 0 | %100 |
| 113 | M93A | X | 0 | 0 | 0 | %100 |
| 114 | M93A | Z | 2.611 | 2.611 | 0 | %100 |

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | -.247 | -.247 | 0 | %100 |
| 2 | M1 | Z | .429 | .429 | 0 | %100 |
| 3 | M2 | X | -.247 | -.247 | 0 | %100 |
| 4 | M2 | Z | .429 | .429 | 0 | %100 |
| 5 | M5 | X | -1.407 | -1.407 | 0 | %100 |
| 6 | M5 | Z | 2.437 | 2.437 | 0 | %100 |
| 7 | M6 | X | -1.407 | -1.407 | 0 | %100 |
| 8 | M6 | Z | 2.437 | 2.437 | 0 | %100 |
| 9 | M8 | X | -5.655 | -5.655 | 0 | %100 |
| 10 | M8 | Z | 9.795 | 9.795 | 0 | %100 |

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in,%] | End Location[in,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 11 | M10A | X | -1.597 | -1.597 | 0 | % 100 |
| 12 | M10A | Z | 2.766 | 2.766 | 0 | % 100 |
| 13 | FACE | X | -5.167 | -5.167 | 0 | % 100 |
| 14 | FACE | Z | 8.949 | 8.949 | 0 | % 100 |
| 15 | MP1A | X | -4.702 | -4.702 | 0 | % 100 |
| 16 | MP1A | Z | 8.144 | 8.144 | 0 | % 100 |
| 17 | MP2A | X | -4.702 | -4.702 | 0 | % 100 |
| 18 | MP2A | Z | 8.144 | 8.144 | 0 | % 100 |
| 19 | MP3A | X | -4.702 | -4.702 | 0 | % 100 |
| 20 | MP3A | Z | 8.144 | 8.144 | 0 | % 100 |
| 21 | MP4A | X | -4.702 | -4.702 | 0 | % 100 |
| 22 | MP4A | Z | 8.144 | 8.144 | 0 | % 100 |
| 23 | MP5A | X | -4.702 | -4.702 | 0 | % 100 |
| 24 | MP5A | Z | 8.144 | 8.144 | 0 | % 100 |
| 25 | M22 | X | -.247 | -.247 | 0 | % 100 |
| 26 | M22 | Z | .429 | .429 | 0 | % 100 |
| 27 | M23 | X | -.247 | -.247 | 0 | % 100 |
| 28 | M23 | Z | .429 | .429 | 0 | % 100 |
| 29 | M26 | X | -1.407 | -1.407 | 0 | % 100 |
| 30 | M26 | Z | 2.437 | 2.437 | 0 | % 100 |
| 31 | M27 | X | -1.407 | -1.407 | 0 | % 100 |
| 32 | M27 | Z | 2.437 | 2.437 | 0 | % 100 |
| 33 | M28 | X | -5.655 | -5.655 | 0 | % 100 |
| 34 | M28 | Z | 9.795 | 9.795 | 0 | % 100 |
| 35 | M31 | X | -1.597 | -1.597 | 0 | % 100 |
| 36 | M31 | Z | 2.766 | 2.766 | 0 | % 100 |
| 37 | M32 | X | -5.167 | -5.167 | 0 | % 100 |
| 38 | M32 | Z | 8.949 | 8.949 | 0 | % 100 |
| 39 | MP1C | X | -4.702 | -4.702 | 0 | % 100 |
| 40 | MP1C | Z | 8.144 | 8.144 | 0 | % 100 |
| 41 | MP2C | X | -4.702 | -4.702 | 0 | % 100 |
| 42 | MP2C | Z | 8.144 | 8.144 | 0 | % 100 |
| 43 | MP3C | X | -4.702 | -4.702 | 0 | % 100 |
| 44 | MP3C | Z | 8.144 | 8.144 | 0 | % 100 |
| 45 | MP4C | X | -4.702 | -4.702 | 0 | % 100 |
| 46 | MP4C | Z | 8.144 | 8.144 | 0 | % 100 |
| 47 | MP5C | X | -4.702 | -4.702 | 0 | % 100 |
| 48 | MP5C | Z | 8.144 | 8.144 | 0 | % 100 |
| 49 | M43 | X | -.99 | -.99 | 0 | % 100 |
| 50 | M43 | Z | 1.715 | 1.715 | 0 | % 100 |
| 51 | M44 | X | -.99 | -.99 | 0 | % 100 |
| 52 | M44 | Z | 1.715 | 1.715 | 0 | % 100 |
| 53 | M47 | X | -5.628 | -5.628 | 0 | % 100 |
| 54 | M47 | Z | 9.748 | 9.748 | 0 | % 100 |
| 55 | M48 | X | -5.628 | -5.628 | 0 | % 100 |
| 56 | M48 | Z | 9.748 | 9.748 | 0 | % 100 |
| 57 | M49 | X | -5.655 | -5.655 | 0 | % 100 |
| 58 | M49 | Z | 9.795 | 9.795 | 0 | % 100 |
| 59 | M52 | X | -6.389 | -6.389 | 0 | % 100 |
| 60 | M52 | Z | 11.066 | 11.066 | 0 | % 100 |
| 61 | M53 | X | 0 | 0 | 0 | % 100 |
| 62 | M53 | Z | 0 | 0 | 0 | % 100 |

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 63 | MP1B | X | -4.702 | -4.702 | 0 %100 |
| 64 | MP1B | Z | 8.144 | 8.144 | 0 %100 |
| 65 | MP2B | X | -4.702 | -4.702 | 0 %100 |
| 66 | MP2B | Z | 8.144 | 8.144 | 0 %100 |
| 67 | MP3B | X | -4.702 | -4.702 | 0 %100 |
| 68 | MP3B | Z | 8.144 | 8.144 | 0 %100 |
| 69 | MP4B | X | -4.702 | -4.702 | 0 %100 |
| 70 | MP4B | Z | 8.144 | 8.144 | 0 %100 |
| 71 | MP5B | X | -4.702 | -4.702 | 0 %100 |
| 72 | MP5B | Z | 8.144 | 8.144 | 0 %100 |
| 73 | M64 | X | -7.548 | -7.548 | 0 %100 |
| 74 | M64 | Z | 13.074 | 13.074 | 0 %100 |
| 75 | M65 | X | 0 | 0 | 0 %100 |
| 76 | M65 | Z | 0 | 0 | 0 %100 |
| 77 | M66 | X | 0 | 0 | 0 %100 |
| 78 | M66 | Z | 0 | 0 | 0 %100 |
| 79 | M67 | X | -7.548 | -7.548 | 0 %100 |
| 80 | M67 | Z | 13.074 | 13.074 | 0 %100 |
| 81 | M68 | X | -7.548 | -7.548 | 0 %100 |
| 82 | M68 | Z | 13.074 | 13.074 | 0 %100 |
| 83 | M69 | X | -7.548 | -7.548 | 0 %100 |
| 84 | M69 | Z | 13.074 | 13.074 | 0 %100 |
| 85 | M73A | X | -4.269 | -4.269 | 0 %100 |
| 86 | M73A | Z | 7.394 | 7.394 | 0 %100 |
| 87 | M79 | X | -.224 | -.224 | 0 %100 |
| 88 | M79 | Z | .387 | .387 | 0 %100 |
| 89 | M80 | X | -6.765 | -6.765 | 0 %100 |
| 90 | M80 | Z | 11.717 | 11.717 | 0 %100 |
| 91 | M81 | X | -4.269 | -4.269 | 0 %100 |
| 92 | M81 | Z | 7.394 | 7.394 | 0 %100 |
| 93 | M89 | X | 0 | 0 | 0 %100 |
| 94 | M89 | Z | 0 | 0 | 0 %100 |
| 95 | M104 | X | -.011 | -.011 | 0 %100 |
| 96 | M104 | Z | .019 | .019 | 0 %100 |
| 97 | M105 | X | -3.512 | -3.512 | 0 %100 |
| 98 | M105 | Z | 6.082 | 6.082 | 0 %100 |
| 99 | M95 | X | -6.765 | -6.765 | 0 %100 |
| 100 | M95 | Z | 11.717 | 11.717 | 0 %100 |
| 101 | M96 | X | -.224 | -.224 | 0 %100 |
| 102 | M96 | Z | .387 | .387 | 0 %100 |
| 103 | M97 | X | -5.643 | -5.643 | 0 %100 |
| 104 | M97 | Z | 9.773 | 9.773 | 0 %100 |
| 105 | M98 | X | -5.643 | -5.643 | 0 %100 |
| 106 | M98 | Z | 9.773 | 9.773 | 0 %100 |
| 107 | M90A | X | -3.084 | -3.084 | 0 %100 |
| 108 | M90A | Z | 5.341 | 5.341 | 0 %100 |
| 109 | M91A | X | -.402 | -.402 | 0 %100 |
| 110 | M91A | Z | .697 | .697 | 0 %100 |
| 111 | M92A | X | -5.714 | -5.714 | 0 %100 |
| 112 | M92A | Z | 9.897 | 9.897 | 0 %100 |
| 113 | M93A | X | -.011 | -.011 | 0 %100 |
| 114 | M93A | Z | .019 | .019 | 0 %100 |

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | -1.286 | -1.286 | 0 | %100 |
| 2 | M1 | Z | .742 | .742 | 0 | %100 |
| 3 | M2 | X | -1.286 | -1.286 | 0 | %100 |
| 4 | M2 | Z | .742 | .742 | 0 | %100 |
| 5 | M5 | X | -7.311 | -7.311 | 0 | %100 |
| 6 | M5 | Z | 4.221 | 4.221 | 0 | %100 |
| 7 | M6 | X | -7.311 | -7.311 | 0 | %100 |
| 8 | M6 | Z | 4.221 | 4.221 | 0 | %100 |
| 9 | M8 | X | -9.795 | -9.795 | 0 | %100 |
| 10 | M8 | Z | 5.655 | 5.655 | 0 | %100 |
| 11 | M10A | X | -8.299 | -8.299 | 0 | %100 |
| 12 | M10A | Z | 4.792 | 4.792 | 0 | %100 |
| 13 | FACE | X | -2.983 | -2.983 | 0 | %100 |
| 14 | FACE | Z | 1.722 | 1.722 | 0 | %100 |
| 15 | MP1A | X | -8.144 | -8.144 | 0 | %100 |
| 16 | MP1A | Z | 4.702 | 4.702 | 0 | %100 |
| 17 | MP2A | X | -8.144 | -8.144 | 0 | %100 |
| 18 | MP2A | Z | 4.702 | 4.702 | 0 | %100 |
| 19 | MP3A | X | -8.144 | -8.144 | 0 | %100 |
| 20 | MP3A | Z | 4.702 | 4.702 | 0 | %100 |
| 21 | MP4A | X | -8.144 | -8.144 | 0 | %100 |
| 22 | MP4A | Z | 4.702 | 4.702 | 0 | %100 |
| 23 | MP5A | X | -8.144 | -8.144 | 0 | %100 |
| 24 | MP5A | Z | 4.702 | 4.702 | 0 | %100 |
| 25 | M22 | X | 0 | 0 | 0 | %100 |
| 26 | M22 | Z | 0 | 0 | 0 | %100 |
| 27 | M23 | X | 0 | 0 | 0 | %100 |
| 28 | M23 | Z | 0 | 0 | 0 | %100 |
| 29 | M26 | X | 0 | 0 | 0 | %100 |
| 30 | M26 | Z | 0 | 0 | 0 | %100 |
| 31 | M27 | X | 0 | 0 | 0 | %100 |
| 32 | M27 | Z | 0 | 0 | 0 | %100 |
| 33 | M28 | X | -9.795 | -9.795 | 0 | %100 |
| 34 | M28 | Z | 5.655 | 5.655 | 0 | %100 |
| 35 | M31 | X | 0 | 0 | 0 | %100 |
| 36 | M31 | Z | 0 | 0 | 0 | %100 |
| 37 | M32 | X | -11.932 | -11.932 | 0 | %100 |
| 38 | M32 | Z | 6.889 | 6.889 | 0 | %100 |
| 39 | MP1C | X | -8.144 | -8.144 | 0 | %100 |
| 40 | MP1C | Z | 4.702 | 4.702 | 0 | %100 |
| 41 | MP2C | X | -8.144 | -8.144 | 0 | %100 |
| 42 | MP2C | Z | 4.702 | 4.702 | 0 | %100 |
| 43 | MP3C | X | -8.144 | -8.144 | 0 | %100 |
| 44 | MP3C | Z | 4.702 | 4.702 | 0 | %100 |
| 45 | MP4C | X | -8.144 | -8.144 | 0 | %100 |
| 46 | MP4C | Z | 4.702 | 4.702 | 0 | %100 |
| 47 | MP5C | X | -8.144 | -8.144 | 0 | %100 |
| 48 | MP5C | Z | 4.702 | 4.702 | 0 | %100 |
| 49 | M43 | X | -1.286 | -1.286 | 0 | %100 |
| 50 | M43 | Z | .742 | .742 | 0 | %100 |
| 51 | M44 | X | -1.286 | -1.286 | 0 | %100 |
| 52 | M44 | Z | .742 | .742 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 53 | M47 | X | -7.311 | -7.311 | 0 | %100 |
| 54 | M47 | Z | 4.221 | 4.221 | 0 | %100 |
| 55 | M48 | X | -7.311 | -7.311 | 0 | %100 |
| 56 | M48 | Z | 4.221 | 4.221 | 0 | %100 |
| 57 | M49 | X | -9.795 | -9.795 | 0 | %100 |
| 58 | M49 | Z | 5.655 | 5.655 | 0 | %100 |
| 59 | M52 | X | -8.299 | -8.299 | 0 | %100 |
| 60 | M52 | Z | 4.792 | 4.792 | 0 | %100 |
| 61 | M53 | X | -2.983 | -2.983 | 0 | %100 |
| 62 | M53 | Z | 1.722 | 1.722 | 0 | %100 |
| 63 | MP1B | X | -8.144 | -8.144 | 0 | %100 |
| 64 | MP1B | Z | 4.702 | 4.702 | 0 | %100 |
| 65 | MP2B | X | -8.144 | -8.144 | 0 | %100 |
| 66 | MP2B | Z | 4.702 | 4.702 | 0 | %100 |
| 67 | MP3B | X | -8.144 | -8.144 | 0 | %100 |
| 68 | MP3B | Z | 4.702 | 4.702 | 0 | %100 |
| 69 | MP4B | X | -8.144 | -8.144 | 0 | %100 |
| 70 | MP4B | Z | 4.702 | 4.702 | 0 | %100 |
| 71 | MP5B | X | -8.144 | -8.144 | 0 | %100 |
| 72 | MP5B | Z | 4.702 | 4.702 | 0 | %100 |
| 73 | M64 | X | -17.432 | -17.432 | 0 | %100 |
| 74 | M64 | Z | 10.064 | 10.064 | 0 | %100 |
| 75 | M65 | X | -4.358 | -4.358 | 0 | %100 |
| 76 | M65 | Z | 2.516 | 2.516 | 0 | %100 |
| 77 | M66 | X | -4.358 | -4.358 | 0 | %100 |
| 78 | M66 | Z | 2.516 | 2.516 | 0 | %100 |
| 79 | M67 | X | -4.358 | -4.358 | 0 | %100 |
| 80 | M67 | Z | 2.516 | 2.516 | 0 | %100 |
| 81 | M68 | X | -4.358 | -4.358 | 0 | %100 |
| 82 | M68 | Z | 2.516 | 2.516 | 0 | %100 |
| 83 | M69 | X | -17.432 | -17.432 | 0 | %100 |
| 84 | M69 | Z | 10.064 | 10.064 | 0 | %100 |
| 85 | M73A | X | -2.465 | -2.465 | 0 | %100 |
| 86 | M73A | Z | 1.423 | 1.423 | 0 | %100 |
| 87 | M79 | X | -2.868 | -2.868 | 0 | %100 |
| 88 | M79 | Z | 1.656 | 1.656 | 0 | %100 |
| 89 | M80 | X | -14.198 | -14.198 | 0 | %100 |
| 90 | M80 | Z | 8.197 | 8.197 | 0 | %100 |
| 91 | M81 | X | -9.859 | -9.859 | 0 | %100 |
| 92 | M81 | Z | 5.692 | 5.692 | 0 | %100 |
| 93 | M89 | X | -2.465 | -2.465 | 0 | %100 |
| 94 | M89 | Z | 1.423 | 1.423 | 0 | %100 |
| 95 | M104 | X | -1.598 | -1.598 | 0 | %100 |
| 96 | M104 | Z | .923 | .923 | 0 | %100 |
| 97 | M105 | X | -2.261 | -2.261 | 0 | %100 |
| 98 | M105 | Z | 1.305 | 1.305 | 0 | %100 |
| 99 | M95 | X | -4.812 | -4.812 | 0 | %100 |
| 100 | M95 | Z | 2.778 | 2.778 | 0 | %100 |
| 101 | M96 | X | -4.812 | -4.812 | 0 | %100 |
| 102 | M96 | Z | 2.778 | 2.778 | 0 | %100 |
| 103 | M97 | X | -14.198 | -14.198 | 0 | %100 |
| 104 | M97 | Z | 8.197 | 8.197 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 39 | MP1C | X | -9.404 | -9.404 | 0 | %100 |
| 40 | MP1C | Z | 0 | 0 | 0 | %100 |
| 41 | MP2C | X | -9.404 | -9.404 | 0 | %100 |
| 42 | MP2C | Z | 0 | 0 | 0 | %100 |
| 43 | MP3C | X | -9.404 | -9.404 | 0 | %100 |
| 44 | MP3C | Z | 0 | 0 | 0 | %100 |
| 45 | MP4C | X | -9.404 | -9.404 | 0 | %100 |
| 46 | MP4C | Z | 0 | 0 | 0 | %100 |
| 47 | MP5C | X | -9.404 | -9.404 | 0 | %100 |
| 48 | MP5C | Z | 0 | 0 | 0 | %100 |
| 49 | M43 | X | -.495 | -.495 | 0 | %100 |
| 50 | M43 | Z | 0 | 0 | 0 | %100 |
| 51 | M44 | X | -.495 | -.495 | 0 | %100 |
| 52 | M44 | Z | 0 | 0 | 0 | %100 |
| 53 | M47 | X | -2.814 | -2.814 | 0 | %100 |
| 54 | M47 | Z | 0 | 0 | 0 | %100 |
| 55 | M48 | X | -2.814 | -2.814 | 0 | %100 |
| 56 | M48 | Z | 0 | 0 | 0 | %100 |
| 57 | M49 | X | -11.31 | -11.31 | 0 | %100 |
| 58 | M49 | Z | 0 | 0 | 0 | %100 |
| 59 | M52 | X | -3.194 | -3.194 | 0 | %100 |
| 60 | M52 | Z | 0 | 0 | 0 | %100 |
| 61 | M53 | X | -10.333 | -10.333 | 0 | %100 |
| 62 | M53 | Z | 0 | 0 | 0 | %100 |
| 63 | MP1B | X | -9.404 | -9.404 | 0 | %100 |
| 64 | MP1B | Z | 0 | 0 | 0 | %100 |
| 65 | MP2B | X | -9.404 | -9.404 | 0 | %100 |
| 66 | MP2B | Z | 0 | 0 | 0 | %100 |
| 67 | MP3B | X | -9.404 | -9.404 | 0 | %100 |
| 68 | MP3B | Z | 0 | 0 | 0 | %100 |
| 69 | MP4B | X | -9.404 | -9.404 | 0 | %100 |
| 70 | MP4B | Z | 0 | 0 | 0 | %100 |
| 71 | MP5B | X | -9.404 | -9.404 | 0 | %100 |
| 72 | MP5B | Z | 0 | 0 | 0 | %100 |
| 73 | M64 | X | -15.097 | -15.097 | 0 | %100 |
| 74 | M64 | Z | 0 | 0 | 0 | %100 |
| 75 | M65 | X | -15.097 | -15.097 | 0 | %100 |
| 76 | M65 | Z | 0 | 0 | 0 | %100 |
| 77 | M66 | X | -15.097 | -15.097 | 0 | %100 |
| 78 | M66 | Z | 0 | 0 | 0 | %100 |
| 79 | M67 | X | 0 | 0 | 0 | %100 |
| 80 | M67 | Z | 0 | 0 | 0 | %100 |
| 81 | M68 | X | 0 | 0 | 0 | %100 |
| 82 | M68 | Z | 0 | 0 | 0 | %100 |
| 83 | M69 | X | -15.097 | -15.097 | 0 | %100 |
| 84 | M69 | Z | 0 | 0 | 0 | %100 |
| 85 | M73A | X | 0 | 0 | 0 | %100 |
| 86 | M73A | Z | 0 | 0 | 0 | %100 |
| 87 | M79 | X | -11.285 | -11.285 | 0 | %100 |
| 88 | M79 | Z | 0 | 0 | 0 | %100 |
| 89 | M80 | X | -11.285 | -11.285 | 0 | %100 |
| 90 | M80 | Z | 0 | 0 | 0 | %100 |



Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 91 | M81 | X | -8.538 | -8.538 | 0 | %100 |
| 92 | M81 | Z | 0 | 0 | 0 | %100 |
| 93 | M89 | X | -8.538 | -8.538 | 0 | %100 |
| 94 | M89 | Z | 0 | 0 | 0 | %100 |
| 95 | M104 | X | -6.258 | -6.258 | 0 | %100 |
| 96 | M104 | Z | 0 | 0 | 0 | %100 |
| 97 | M105 | X | -.022 | -.022 | 0 | %100 |
| 98 | M105 | Z | 0 | 0 | 0 | %100 |
| 99 | M95 | X | -.447 | -.447 | 0 | %100 |
| 100 | M95 | Z | 0 | 0 | 0 | %100 |
| 101 | M96 | X | -13.53 | -13.53 | 0 | %100 |
| 102 | M96 | Z | 0 | 0 | 0 | %100 |
| 103 | M97 | X | -13.53 | -13.53 | 0 | %100 |
| 104 | M97 | Z | 0 | 0 | 0 | %100 |
| 105 | M98 | X | -.447 | -.447 | 0 | %100 |
| 106 | M98 | Z | 0 | 0 | 0 | %100 |
| 107 | M90A | X | -11.428 | -11.428 | 0 | %100 |
| 108 | M90A | Z | 0 | 0 | 0 | %100 |
| 109 | M91A | X | -6.168 | -6.168 | 0 | %100 |
| 110 | M91A | Z | 0 | 0 | 0 | %100 |
| 111 | M92A | X | -.805 | -.805 | 0 | %100 |
| 112 | M92A | Z | 0 | 0 | 0 | %100 |
| 113 | M93A | X | -6.258 | -6.258 | 0 | %100 |
| 114 | M93A | Z | 0 | 0 | 0 | %100 |

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | -1.286 | -1.286 | 0 | %100 |
| 2 | M1 | Z | -.742 | -.742 | 0 | %100 |
| 3 | M2 | X | -1.286 | -1.286 | 0 | %100 |
| 4 | M2 | Z | -.742 | -.742 | 0 | %100 |
| 5 | M5 | X | -7.311 | -7.311 | 0 | %100 |
| 6 | M5 | Z | -4.221 | -4.221 | 0 | %100 |
| 7 | M6 | X | -7.311 | -7.311 | 0 | %100 |
| 8 | M6 | Z | -4.221 | -4.221 | 0 | %100 |
| 9 | M8 | X | -9.795 | -9.795 | 0 | %100 |
| 10 | M8 | Z | -5.655 | -5.655 | 0 | %100 |
| 11 | M10A | X | -8.299 | -8.299 | 0 | %100 |
| 12 | M10A | Z | -4.792 | -4.792 | 0 | %100 |
| 13 | FACE | X | -2.983 | -2.983 | 0 | %100 |
| 14 | FACE | Z | -1.722 | -1.722 | 0 | %100 |
| 15 | MP1A | X | -8.144 | -8.144 | 0 | %100 |
| 16 | MP1A | Z | -4.702 | -4.702 | 0 | %100 |
| 17 | MP2A | X | -8.144 | -8.144 | 0 | %100 |
| 18 | MP2A | Z | -4.702 | -4.702 | 0 | %100 |
| 19 | MP3A | X | -8.144 | -8.144 | 0 | %100 |
| 20 | MP3A | Z | -4.702 | -4.702 | 0 | %100 |
| 21 | MP4A | X | -8.144 | -8.144 | 0 | %100 |
| 22 | MP4A | Z | -4.702 | -4.702 | 0 | %100 |
| 23 | MP5A | X | -8.144 | -8.144 | 0 | %100 |
| 24 | MP5A | Z | -4.702 | -4.702 | 0 | %100 |



Company : Maser Consulting
Designer :
Job Number :
Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
2:42 PM
Checked By: _____

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in,%] | End Location[in,%] |
|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 25 | M22 | X | -1.286 | -1.286 | 0 %100 |
| 26 | M22 | Z | -.742 | -.742 | 0 %100 |
| 27 | M23 | X | -1.286 | -1.286 | 0 %100 |
| 28 | M23 | Z | -.742 | -.742 | 0 %100 |
| 29 | M26 | X | -7.311 | -7.311 | 0 %100 |
| 30 | M26 | Z | -4.221 | -4.221 | 0 %100 |
| 31 | M27 | X | -7.311 | -7.311 | 0 %100 |
| 32 | M27 | Z | -4.221 | -4.221 | 0 %100 |
| 33 | M28 | X | -9.795 | -9.795 | 0 %100 |
| 34 | M28 | Z | -5.655 | -5.655 | 0 %100 |
| 35 | M31 | X | -8.299 | -8.299 | 0 %100 |
| 36 | M31 | Z | -4.792 | -4.792 | 0 %100 |
| 37 | M32 | X | -2.983 | -2.983 | 0 %100 |
| 38 | M32 | Z | -1.722 | -1.722 | 0 %100 |
| 39 | MP1C | X | -8.144 | -8.144 | 0 %100 |
| 40 | MP1C | Z | -4.702 | -4.702 | 0 %100 |
| 41 | MP2C | X | -8.144 | -8.144 | 0 %100 |
| 42 | MP2C | Z | -4.702 | -4.702 | 0 %100 |
| 43 | MP3C | X | -8.144 | -8.144 | 0 %100 |
| 44 | MP3C | Z | -4.702 | -4.702 | 0 %100 |
| 45 | MP4C | X | -8.144 | -8.144 | 0 %100 |
| 46 | MP4C | Z | -4.702 | -4.702 | 0 %100 |
| 47 | MP5C | X | -8.144 | -8.144 | 0 %100 |
| 48 | MP5C | Z | -4.702 | -4.702 | 0 %100 |
| 49 | M43 | X | 0 | 0 | 0 %100 |
| 50 | M43 | Z | 0 | 0 | 0 %100 |
| 51 | M44 | X | 0 | 0 | 0 %100 |
| 52 | M44 | Z | 0 | 0 | 0 %100 |
| 53 | M47 | X | 0 | 0 | 0 %100 |
| 54 | M47 | Z | 0 | 0 | 0 %100 |
| 55 | M48 | X | 0 | 0 | 0 %100 |
| 56 | M48 | Z | 0 | 0 | 0 %100 |
| 57 | M49 | X | -9.795 | -9.795 | 0 %100 |
| 58 | M49 | Z | -5.655 | -5.655 | 0 %100 |
| 59 | M52 | X | 0 | 0 | 0 %100 |
| 60 | M52 | Z | 0 | 0 | 0 %100 |
| 61 | M53 | X | -11.932 | -11.932 | 0 %100 |
| 62 | M53 | Z | -6.889 | -6.889 | 0 %100 |
| 63 | MP1B | X | -8.144 | -8.144 | 0 %100 |
| 64 | MP1B | Z | -4.702 | -4.702 | 0 %100 |
| 65 | MP2B | X | -8.144 | -8.144 | 0 %100 |
| 66 | MP2B | Z | -4.702 | -4.702 | 0 %100 |
| 67 | MP3B | X | -8.144 | -8.144 | 0 %100 |
| 68 | MP3B | Z | -4.702 | -4.702 | 0 %100 |
| 69 | MP4B | X | -8.144 | -8.144 | 0 %100 |
| 70 | MP4B | Z | -4.702 | -4.702 | 0 %100 |
| 71 | MP5B | X | -8.144 | -8.144 | 0 %100 |
| 72 | MP5B | Z | -4.702 | -4.702 | 0 %100 |
| 73 | M64 | X | -4.358 | -4.358 | 0 %100 |
| 74 | M64 | Z | -2.516 | -2.516 | 0 %100 |
| 75 | M65 | X | -17.432 | -17.432 | 0 %100 |
| 76 | M65 | Z | -10.064 | -10.064 | 0 %100 |



Member Distributed Loads (BLC 51 : Structure Wo (300 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 77 | M66 | X | -17.432 | -17.432 | 0 | % 100 |
| 78 | M66 | Z | -10.064 | -10.064 | 0 | % 100 |
| 79 | M67 | X | -4.358 | -4.358 | 0 | % 100 |
| 80 | M67 | Z | -2.516 | -2.516 | 0 | % 100 |
| 81 | M68 | X | -4.358 | -4.358 | 0 | % 100 |
| 82 | M68 | Z | -2.516 | -2.516 | 0 | % 100 |
| 83 | M69 | X | -4.358 | -4.358 | 0 | % 100 |
| 84 | M69 | Z | -2.516 | -2.516 | 0 | % 100 |
| 85 | M73A | X | -2.465 | -2.465 | 0 | % 100 |
| 86 | M73A | Z | -1.423 | -1.423 | 0 | % 100 |
| 87 | M79 | X | -14.198 | -14.198 | 0 | % 100 |
| 88 | M79 | Z | -8.197 | -8.197 | 0 | % 100 |
| 89 | M80 | X | -2.868 | -2.868 | 0 | % 100 |
| 90 | M80 | Z | -1.656 | -1.656 | 0 | % 100 |
| 91 | M81 | X | -2.465 | -2.465 | 0 | % 100 |
| 92 | M81 | Z | -1.423 | -1.423 | 0 | % 100 |
| 93 | M89 | X | -9.859 | -9.859 | 0 | % 100 |
| 94 | M89 | Z | -5.692 | -5.692 | 0 | % 100 |
| 95 | M104 | X | -7.661 | -7.661 | 0 | % 100 |
| 96 | M104 | Z | -4.423 | -4.423 | 0 | % 100 |
| 97 | M105 | X | -1.598 | -1.598 | 0 | % 100 |
| 98 | M105 | Z | -.923 | -.923 | 0 | % 100 |
| 99 | M95 | X | -2.868 | -2.868 | 0 | % 100 |
| 100 | M95 | Z | -1.656 | -1.656 | 0 | % 100 |
| 101 | M96 | X | -14.198 | -14.198 | 0 | % 100 |
| 102 | M96 | Z | -8.197 | -8.197 | 0 | % 100 |
| 103 | M97 | X | -4.812 | -4.812 | 0 | % 100 |
| 104 | M97 | Z | -2.778 | -2.778 | 0 | % 100 |
| 105 | M98 | X | -4.812 | -4.812 | 0 | % 100 |
| 106 | M98 | Z | -2.778 | -2.778 | 0 | % 100 |
| 107 | M90A | X | -5.282 | -5.282 | 0 | % 100 |
| 108 | M90A | Z | -3.05 | -3.05 | 0 | % 100 |
| 109 | M91A | X | -9.927 | -9.927 | 0 | % 100 |
| 110 | M91A | Z | -5.731 | -5.731 | 0 | % 100 |
| 111 | M92A | X | -.727 | -.727 | 0 | % 100 |
| 112 | M92A | Z | -.42 | -.42 | 0 | % 100 |
| 113 | M93A | X | -7.661 | -7.661 | 0 | % 100 |
| 114 | M93A | Z | -4.423 | -4.423 | 0 | % 100 |

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | -.247 | -.247 | 0 | % 100 |
| 2 | M1 | Z | -.429 | -.429 | 0 | % 100 |
| 3 | M2 | X | -.247 | -.247 | 0 | % 100 |
| 4 | M2 | Z | -.429 | -.429 | 0 | % 100 |
| 5 | M5 | X | -1.407 | -1.407 | 0 | % 100 |
| 6 | M5 | Z | -2.437 | -2.437 | 0 | % 100 |
| 7 | M6 | X | -1.407 | -1.407 | 0 | % 100 |
| 8 | M6 | Z | -2.437 | -2.437 | 0 | % 100 |
| 9 | M8 | X | -5.655 | -5.655 | 0 | % 100 |
| 10 | M8 | Z | -9.795 | -9.795 | 0 | % 100 |

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 11 | M10A | X | -1.597 | -1.597 | 0 %100 |
| 12 | M10A | Z | -2.766 | -2.766 | 0 %100 |
| 13 | FACE | X | -5.167 | -5.167 | 0 %100 |
| 14 | FACE | Z | -8.949 | -8.949 | 0 %100 |
| 15 | MP1A | X | -4.702 | -4.702 | 0 %100 |
| 16 | MP1A | Z | -8.144 | -8.144 | 0 %100 |
| 17 | MP2A | X | -4.702 | -4.702 | 0 %100 |
| 18 | MP2A | Z | -8.144 | -8.144 | 0 %100 |
| 19 | MP3A | X | -4.702 | -4.702 | 0 %100 |
| 20 | MP3A | Z | -8.144 | -8.144 | 0 %100 |
| 21 | MP4A | X | -4.702 | -4.702 | 0 %100 |
| 22 | MP4A | Z | -8.144 | -8.144 | 0 %100 |
| 23 | MP5A | X | -4.702 | -4.702 | 0 %100 |
| 24 | MP5A | Z | -8.144 | -8.144 | 0 %100 |
| 25 | M22 | X | -.99 | -.99 | 0 %100 |
| 26 | M22 | Z | -1.715 | -1.715 | 0 %100 |
| 27 | M23 | X | -.99 | -.99 | 0 %100 |
| 28 | M23 | Z | -1.715 | -1.715 | 0 %100 |
| 29 | M26 | X | -5.628 | -5.628 | 0 %100 |
| 30 | M26 | Z | -9.748 | -9.748 | 0 %100 |
| 31 | M27 | X | -5.628 | -5.628 | 0 %100 |
| 32 | M27 | Z | -9.748 | -9.748 | 0 %100 |
| 33 | M28 | X | -5.655 | -5.655 | 0 %100 |
| 34 | M28 | Z | -9.795 | -9.795 | 0 %100 |
| 35 | M31 | X | -6.389 | -6.389 | 0 %100 |
| 36 | M31 | Z | -11.066 | -11.066 | 0 %100 |
| 37 | M32 | X | 0 | 0 | 0 %100 |
| 38 | M32 | Z | 0 | 0 | 0 %100 |
| 39 | MP1C | X | -4.702 | -4.702 | 0 %100 |
| 40 | MP1C | Z | -8.144 | -8.144 | 0 %100 |
| 41 | MP2C | X | -4.702 | -4.702 | 0 %100 |
| 42 | MP2C | Z | -8.144 | -8.144 | 0 %100 |
| 43 | MP3C | X | -4.702 | -4.702 | 0 %100 |
| 44 | MP3C | Z | -8.144 | -8.144 | 0 %100 |
| 45 | MP4C | X | -4.702 | -4.702 | 0 %100 |
| 46 | MP4C | Z | -8.144 | -8.144 | 0 %100 |
| 47 | MP5C | X | -4.702 | -4.702 | 0 %100 |
| 48 | MP5C | Z | -8.144 | -8.144 | 0 %100 |
| 49 | M43 | X | -.247 | -.247 | 0 %100 |
| 50 | M43 | Z | -.429 | -.429 | 0 %100 |
| 51 | M44 | X | -.247 | -.247 | 0 %100 |
| 52 | M44 | Z | -.429 | -.429 | 0 %100 |
| 53 | M47 | X | -1.407 | -1.407 | 0 %100 |
| 54 | M47 | Z | -2.437 | -2.437 | 0 %100 |
| 55 | M48 | X | -1.407 | -1.407 | 0 %100 |
| 56 | M48 | Z | -2.437 | -2.437 | 0 %100 |
| 57 | M49 | X | -5.655 | -5.655 | 0 %100 |
| 58 | M49 | Z | -9.795 | -9.795 | 0 %100 |
| 59 | M52 | X | -1.597 | -1.597 | 0 %100 |
| 60 | M52 | Z | -2.766 | -2.766 | 0 %100 |
| 61 | M53 | X | -5.167 | -5.167 | 0 %100 |
| 62 | M53 | Z | -8.949 | -8.949 | 0 %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 63 | MP1B | X | -4.702 | -4.702 | 0 %100 |
| 64 | MP1B | Z | -8.144 | -8.144 | 0 %100 |
| 65 | MP2B | X | -4.702 | -4.702 | 0 %100 |
| 66 | MP2B | Z | -8.144 | -8.144 | 0 %100 |
| 67 | MP3B | X | -4.702 | -4.702 | 0 %100 |
| 68 | MP3B | Z | -8.144 | -8.144 | 0 %100 |
| 69 | MP4B | X | -4.702 | -4.702 | 0 %100 |
| 70 | MP4B | Z | -8.144 | -8.144 | 0 %100 |
| 71 | MP5B | X | -4.702 | -4.702 | 0 %100 |
| 72 | MP5B | Z | -8.144 | -8.144 | 0 %100 |
| 73 | M64 | X | 0 | 0 | 0 %100 |
| 74 | M64 | Z | 0 | 0 | 0 %100 |
| 75 | M65 | X | -7.548 | -7.548 | 0 %100 |
| 76 | M65 | Z | -13.074 | -13.074 | 0 %100 |
| 77 | M66 | X | -7.548 | -7.548 | 0 %100 |
| 78 | M66 | Z | -13.074 | -13.074 | 0 %100 |
| 79 | M67 | X | -7.548 | -7.548 | 0 %100 |
| 80 | M67 | Z | -13.074 | -13.074 | 0 %100 |
| 81 | M68 | X | -7.548 | -7.548 | 0 %100 |
| 82 | M68 | Z | -13.074 | -13.074 | 0 %100 |
| 83 | M69 | X | 0 | 0 | 0 %100 |
| 84 | M69 | Z | 0 | 0 | 0 %100 |
| 85 | M73A | X | -4.269 | -4.269 | 0 %100 |
| 86 | M73A | Z | -7.394 | -7.394 | 0 %100 |
| 87 | M79 | X | -6.765 | -6.765 | 0 %100 |
| 88 | M79 | Z | -11.717 | -11.717 | 0 %100 |
| 89 | M80 | X | -.224 | -.224 | 0 %100 |
| 90 | M80 | Z | -.387 | -.387 | 0 %100 |
| 91 | M81 | X | 0 | 0 | 0 %100 |
| 92 | M81 | Z | 0 | 0 | 0 %100 |
| 93 | M89 | X | -4.269 | -4.269 | 0 %100 |
| 94 | M89 | Z | -7.394 | -7.394 | 0 %100 |
| 95 | M104 | X | -3.512 | -3.512 | 0 %100 |
| 96 | M104 | Z | -6.082 | -6.082 | 0 %100 |
| 97 | M105 | X | -3.129 | -3.129 | 0 %100 |
| 98 | M105 | Z | -5.419 | -5.419 | 0 %100 |
| 99 | M95 | X | -5.643 | -5.643 | 0 %100 |
| 100 | M95 | Z | -9.773 | -9.773 | 0 %100 |
| 101 | M96 | X | -5.643 | -5.643 | 0 %100 |
| 102 | M96 | Z | -9.773 | -9.773 | 0 %100 |
| 103 | M97 | X | -.224 | -.224 | 0 %100 |
| 104 | M97 | Z | -.387 | -.387 | 0 %100 |
| 105 | M98 | X | -6.765 | -6.765 | 0 %100 |
| 106 | M98 | Z | -11.717 | -11.717 | 0 %100 |
| 107 | M90A | X | -.402 | -.402 | 0 %100 |
| 108 | M90A | Z | -.697 | -.697 | 0 %100 |
| 109 | M91A | X | -5.714 | -5.714 | 0 %100 |
| 110 | M91A | Z | -9.897 | -9.897 | 0 %100 |
| 111 | M92A | X | -3.084 | -3.084 | 0 %100 |
| 112 | M92A | Z | -5.342 | -5.342 | 0 %100 |
| 113 | M93A | X | -3.512 | -3.512 | 0 %100 |
| 114 | M93A | Z | -6.082 | -6.082 | 0 %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M2 | X | 0 | 0 | 0 | %100 |
| 4 | M2 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M6 | X | 0 | 0 | 0 | %100 |
| 8 | M6 | Z | 0 | 0 | 0 | %100 |
| 9 | M8 | X | 0 | 0 | 0 | %100 |
| 10 | M8 | Z | -3.405 | -3.405 | 0 | %100 |
| 11 | M10A | X | 0 | 0 | 0 | %100 |
| 12 | M10A | Z | 0 | 0 | 0 | %100 |
| 13 | FACE | X | 0 | 0 | 0 | %100 |
| 14 | FACE | Z | -3.964 | -3.964 | 0 | %100 |
| 15 | MP1A | X | 0 | 0 | 0 | %100 |
| 16 | MP1A | Z | -2.951 | -2.951 | 0 | %100 |
| 17 | MP2A | X | 0 | 0 | 0 | %100 |
| 18 | MP2A | Z | -2.951 | -2.951 | 0 | %100 |
| 19 | MP3A | X | 0 | 0 | 0 | %100 |
| 20 | MP3A | Z | -2.951 | -2.951 | 0 | %100 |
| 21 | MP4A | X | 0 | 0 | 0 | %100 |
| 22 | MP4A | Z | -2.951 | -2.951 | 0 | %100 |
| 23 | MP5A | X | 0 | 0 | 0 | %100 |
| 24 | MP5A | Z | -2.951 | -2.951 | 0 | %100 |
| 25 | M22 | X | 0 | 0 | 0 | %100 |
| 26 | M22 | Z | -.877 | -.877 | 0 | %100 |
| 27 | M23 | X | 0 | 0 | 0 | %100 |
| 28 | M23 | Z | -.877 | -.877 | 0 | %100 |
| 29 | M26 | X | 0 | 0 | 0 | %100 |
| 30 | M26 | Z | -2.017 | -2.017 | 0 | %100 |
| 31 | M27 | X | 0 | 0 | 0 | %100 |
| 32 | M27 | Z | -2.017 | -2.017 | 0 | %100 |
| 33 | M28 | X | 0 | 0 | 0 | %100 |
| 34 | M28 | Z | -3.405 | -3.405 | 0 | %100 |
| 35 | M31 | X | 0 | 0 | 0 | %100 |
| 36 | M31 | Z | -2.465 | -2.465 | 0 | %100 |
| 37 | M32 | X | 0 | 0 | 0 | %100 |
| 38 | M32 | Z | -.991 | -.991 | 0 | %100 |
| 39 | MP1C | X | 0 | 0 | 0 | %100 |
| 40 | MP1C | Z | -2.951 | -2.951 | 0 | %100 |
| 41 | MP2C | X | 0 | 0 | 0 | %100 |
| 42 | MP2C | Z | -2.951 | -2.951 | 0 | %100 |
| 43 | MP3C | X | 0 | 0 | 0 | %100 |
| 44 | MP3C | Z | -2.951 | -2.951 | 0 | %100 |
| 45 | MP4C | X | 0 | 0 | 0 | %100 |
| 46 | MP4C | Z | -2.951 | -2.951 | 0 | %100 |
| 47 | MP5C | X | 0 | 0 | 0 | %100 |
| 48 | MP5C | Z | -2.951 | -2.951 | 0 | %100 |
| 49 | M43 | X | 0 | 0 | 0 | %100 |
| 50 | M43 | Z | -.877 | -.877 | 0 | %100 |
| 51 | M44 | X | 0 | 0 | 0 | %100 |
| 52 | M44 | Z | -.877 | -.877 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 53 | M47 | X | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | -2.017 | -2.017 | 0 | %100 |
| 55 | M48 | X | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | -2.017 | -2.017 | 0 | %100 |
| 57 | M49 | X | 0 | 0 | 0 | %100 |
| 58 | M49 | Z | -3.405 | -3.405 | 0 | %100 |
| 59 | M52 | X | 0 | 0 | 0 | %100 |
| 60 | M52 | Z | -2.465 | -2.465 | 0 | %100 |
| 61 | M53 | X | 0 | 0 | 0 | %100 |
| 62 | M53 | Z | -.991 | -.991 | 0 | %100 |
| 63 | MP1B | X | 0 | 0 | 0 | %100 |
| 64 | MP1B | Z | -2.951 | -2.951 | 0 | %100 |
| 65 | MP2B | X | 0 | 0 | 0 | %100 |
| 66 | MP2B | Z | -2.951 | -2.951 | 0 | %100 |
| 67 | MP3B | X | 0 | 0 | 0 | %100 |
| 68 | MP3B | Z | -2.951 | -2.951 | 0 | %100 |
| 69 | MP4B | X | 0 | 0 | 0 | %100 |
| 70 | MP4B | Z | -2.951 | -2.951 | 0 | %100 |
| 71 | MP5B | X | 0 | 0 | 0 | %100 |
| 72 | MP5B | Z | -2.951 | -2.951 | 0 | %100 |
| 73 | M64 | X | 0 | 0 | 0 | %100 |
| 74 | M64 | Z | -1.114 | -1.114 | 0 | %100 |
| 75 | M65 | X | 0 | 0 | 0 | %100 |
| 76 | M65 | Z | -1.114 | -1.114 | 0 | %100 |
| 77 | M66 | X | 0 | 0 | 0 | %100 |
| 78 | M66 | Z | -1.114 | -1.114 | 0 | %100 |
| 79 | M67 | X | 0 | 0 | 0 | %100 |
| 80 | M67 | Z | -4.456 | -4.456 | 0 | %100 |
| 81 | M68 | X | 0 | 0 | 0 | %100 |
| 82 | M68 | Z | -4.456 | -4.456 | 0 | %100 |
| 83 | M69 | X | 0 | 0 | 0 | %100 |
| 84 | M69 | Z | -1.114 | -1.114 | 0 | %100 |
| 85 | M73A | X | 0 | 0 | 0 | %100 |
| 86 | M73A | Z | -3.263 | -3.263 | 0 | %100 |
| 87 | M79 | X | 0 | 0 | 0 | %100 |
| 88 | M79 | Z | -1.37 | -1.37 | 0 | %100 |
| 89 | M80 | X | 0 | 0 | 0 | %100 |
| 90 | M80 | Z | -1.37 | -1.37 | 0 | %100 |
| 91 | M81 | X | 0 | 0 | 0 | %100 |
| 92 | M81 | Z | -.816 | -.816 | 0 | %100 |
| 93 | M89 | X | 0 | 0 | 0 | %100 |
| 94 | M89 | Z | -.816 | -.816 | 0 | %100 |
| 95 | M104 | X | 0 | 0 | 0 | %100 |
| 96 | M104 | Z | -.821 | -.821 | 0 | %100 |
| 97 | M105 | X | 0 | 0 | 0 | %100 |
| 98 | M105 | Z | -2.78 | -2.78 | 0 | %100 |
| 99 | M95 | X | 0 | 0 | 0 | %100 |
| 100 | M95 | Z | -4.042 | -4.042 | 0 | %100 |
| 101 | M96 | X | 0 | 0 | 0 | %100 |
| 102 | M96 | Z | -.817 | -.817 | 0 | %100 |
| 103 | M97 | X | 0 | 0 | 0 | %100 |
| 104 | M97 | Z | -.817 | -.817 | 0 | %100 |

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 105 | M98 | X | 0 | 0 | 0 | %100 |
| 106 | M98 | Z | -4.042 | -4.042 | 0 | %100 |
| 107 | M90A | X | 0 | 0 | 0 | %100 |
| 108 | M90A | Z | -.194 | -.194 | 0 | %100 |
| 109 | M91A | X | 0 | 0 | 0 | %100 |
| 110 | M91A | Z | -1.411 | -1.411 | 0 | %100 |
| 111 | M92A | X | 0 | 0 | 0 | %100 |
| 112 | M92A | Z | -2.652 | -2.652 | 0 | %100 |
| 113 | M93A | X | 0 | 0 | 0 | %100 |
| 114 | M93A | Z | -.821 | -.821 | 0 | %100 |

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | .146 | .146 | 0 | %100 |
| 2 | M1 | Z | -.253 | -.253 | 0 | %100 |
| 3 | M2 | X | .146 | .146 | 0 | %100 |
| 4 | M2 | Z | -.253 | -.253 | 0 | %100 |
| 5 | M5 | X | .336 | .336 | 0 | %100 |
| 6 | M5 | Z | -.582 | -.582 | 0 | %100 |
| 7 | M6 | X | .336 | .336 | 0 | %100 |
| 8 | M6 | Z | -.582 | -.582 | 0 | %100 |
| 9 | M8 | X | 1.702 | 1.702 | 0 | %100 |
| 10 | M8 | Z | -2.949 | -2.949 | 0 | %100 |
| 11 | M10A | X | .411 | .411 | 0 | %100 |
| 12 | M10A | Z | -.712 | -.712 | 0 | %100 |
| 13 | FACE | X | 1.487 | 1.487 | 0 | %100 |
| 14 | FACE | Z | -2.575 | -2.575 | 0 | %100 |
| 15 | MP1A | X | 1.476 | 1.476 | 0 | %100 |
| 16 | MP1A | Z | -2.556 | -2.556 | 0 | %100 |
| 17 | MP2A | X | 1.476 | 1.476 | 0 | %100 |
| 18 | MP2A | Z | -2.556 | -2.556 | 0 | %100 |
| 19 | MP3A | X | 1.476 | 1.476 | 0 | %100 |
| 20 | MP3A | Z | -2.556 | -2.556 | 0 | %100 |
| 21 | MP4A | X | 1.476 | 1.476 | 0 | %100 |
| 22 | MP4A | Z | -2.556 | -2.556 | 0 | %100 |
| 23 | MP5A | X | 1.476 | 1.476 | 0 | %100 |
| 24 | MP5A | Z | -2.556 | -2.556 | 0 | %100 |
| 25 | M22 | X | .146 | .146 | 0 | %100 |
| 26 | M22 | Z | -.253 | -.253 | 0 | %100 |
| 27 | M23 | X | .146 | .146 | 0 | %100 |
| 28 | M23 | Z | -.253 | -.253 | 0 | %100 |
| 29 | M26 | X | .336 | .336 | 0 | %100 |
| 30 | M26 | Z | -.582 | -.582 | 0 | %100 |
| 31 | M27 | X | .336 | .336 | 0 | %100 |
| 32 | M27 | Z | -.582 | -.582 | 0 | %100 |
| 33 | M28 | X | 1.702 | 1.702 | 0 | %100 |
| 34 | M28 | Z | -2.949 | -2.949 | 0 | %100 |
| 35 | M31 | X | .411 | .411 | 0 | %100 |
| 36 | M31 | Z | -.712 | -.712 | 0 | %100 |
| 37 | M32 | X | 1.487 | 1.487 | 0 | %100 |
| 38 | M32 | Z | -2.575 | -2.575 | 0 | %100 |

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 39 | MP1C | X | 1.476 | 1.476 | 0 %100 |
| 40 | MP1C | Z | -2.556 | -2.556 | 0 %100 |
| 41 | MP2C | X | 1.476 | 1.476 | 0 %100 |
| 42 | MP2C | Z | -2.556 | -2.556 | 0 %100 |
| 43 | MP3C | X | 1.476 | 1.476 | 0 %100 |
| 44 | MP3C | Z | -2.556 | -2.556 | 0 %100 |
| 45 | MP4C | X | 1.476 | 1.476 | 0 %100 |
| 46 | MP4C | Z | -2.556 | -2.556 | 0 %100 |
| 47 | MP5C | X | 1.476 | 1.476 | 0 %100 |
| 48 | MP5C | Z | -2.556 | -2.556 | 0 %100 |
| 49 | M43 | X | .585 | .585 | 0 %100 |
| 50 | M43 | Z | -1.013 | -1.013 | 0 %100 |
| 51 | M44 | X | .585 | .585 | 0 %100 |
| 52 | M44 | Z | -1.013 | -1.013 | 0 %100 |
| 53 | M47 | X | 1.344 | 1.344 | 0 %100 |
| 54 | M47 | Z | -2.329 | -2.329 | 0 %100 |
| 55 | M48 | X | 1.344 | 1.344 | 0 %100 |
| 56 | M48 | Z | -2.329 | -2.329 | 0 %100 |
| 57 | M49 | X | 1.702 | 1.702 | 0 %100 |
| 58 | M49 | Z | -2.949 | -2.949 | 0 %100 |
| 59 | M52 | X | 1.643 | 1.643 | 0 %100 |
| 60 | M52 | Z | -2.846 | -2.846 | 0 %100 |
| 61 | M53 | X | 0 | 0 | 0 %100 |
| 62 | M53 | Z | 0 | 0 | 0 %100 |
| 63 | MP1B | X | 1.476 | 1.476 | 0 %100 |
| 64 | MP1B | Z | -2.556 | -2.556 | 0 %100 |
| 65 | MP2B | X | 1.476 | 1.476 | 0 %100 |
| 66 | MP2B | Z | -2.556 | -2.556 | 0 %100 |
| 67 | MP3B | X | 1.476 | 1.476 | 0 %100 |
| 68 | MP3B | Z | -2.556 | -2.556 | 0 %100 |
| 69 | MP4B | X | 1.476 | 1.476 | 0 %100 |
| 70 | MP4B | Z | -2.556 | -2.556 | 0 %100 |
| 71 | MP5B | X | 1.476 | 1.476 | 0 %100 |
| 72 | MP5B | Z | -2.556 | -2.556 | 0 %100 |
| 73 | M64 | X | 1.671 | 1.671 | 0 %100 |
| 74 | M64 | Z | -2.894 | -2.894 | 0 %100 |
| 75 | M65 | X | 0 | 0 | 0 %100 |
| 76 | M65 | Z | 0 | 0 | 0 %100 |
| 77 | M66 | X | 0 | 0 | 0 %100 |
| 78 | M66 | Z | 0 | 0 | 0 %100 |
| 79 | M67 | X | 1.671 | 1.671 | 0 %100 |
| 80 | M67 | Z | -2.894 | -2.894 | 0 %100 |
| 81 | M68 | X | 1.671 | 1.671 | 0 %100 |
| 82 | M68 | Z | -2.894 | -2.894 | 0 %100 |
| 83 | M69 | X | 1.671 | 1.671 | 0 %100 |
| 84 | M69 | Z | -2.894 | -2.894 | 0 %100 |
| 85 | M73A | X | 1.224 | 1.224 | 0 %100 |
| 86 | M73A | Z | -2.119 | -2.119 | 0 %100 |
| 87 | M79 | X | .055 | .055 | 0 %100 |
| 88 | M79 | Z | -.096 | -.096 | 0 %100 |
| 89 | M80 | X | 1.668 | 1.668 | 0 %100 |
| 90 | M80 | Z | -2.889 | -2.889 | 0 %100 |



Member Distributed Loads (BLC 54 : Structure Wi (30 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 91 | M81 | X | 1.224 | 1.224 | 0 | % 100 |
| 92 | M81 | Z | -2.119 | -2.119 | 0 | % 100 |
| 93 | M89 | X | 0 | 0 | 0 | % 100 |
| 94 | M89 | Z | 0 | 0 | 0 | % 100 |
| 95 | M104 | X | .003 | .003 | 0 | % 100 |
| 96 | M104 | Z | -.006 | -.006 | 0 | % 100 |
| 97 | M105 | X | 1.104 | 1.104 | 0 | % 100 |
| 98 | M105 | Z | -1.912 | -1.912 | 0 | % 100 |
| 99 | M95 | X | 1.668 | 1.668 | 0 | % 100 |
| 100 | M95 | Z | -2.889 | -2.889 | 0 | % 100 |
| 101 | M96 | X | .055 | .055 | 0 | % 100 |
| 102 | M96 | Z | -.096 | -.096 | 0 | % 100 |
| 103 | M97 | X | 1.391 | 1.391 | 0 | % 100 |
| 104 | M97 | Z | -2.41 | -2.41 | 0 | % 100 |
| 105 | M98 | X | 1.391 | 1.391 | 0 | % 100 |
| 106 | M98 | Z | -2.41 | -2.41 | 0 | % 100 |
| 107 | M90A | X | .714 | .714 | 0 | % 100 |
| 108 | M90A | Z | -1.236 | -1.236 | 0 | % 100 |
| 109 | M91A | X | .093 | .093 | 0 | % 100 |
| 110 | M91A | Z | -.161 | -.161 | 0 | % 100 |
| 111 | M92A | X | 1.322 | 1.322 | 0 | % 100 |
| 112 | M92A | Z | -2.29 | -2.29 | 0 | % 100 |
| 113 | M93A | X | .003 | .003 | 0 | % 100 |
| 114 | M93A | Z | -.006 | -.006 | 0 | % 100 |

Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | .759 | .759 | 0 | % 100 |
| 2 | M1 | Z | -.438 | -.438 | 0 | % 100 |
| 3 | M2 | X | .759 | .759 | 0 | % 100 |
| 4 | M2 | Z | -.438 | -.438 | 0 | % 100 |
| 5 | M5 | X | 1.747 | 1.747 | 0 | % 100 |
| 6 | M5 | Z | -1.008 | -1.008 | 0 | % 100 |
| 7 | M6 | X | 1.747 | 1.747 | 0 | % 100 |
| 8 | M6 | Z | -1.008 | -1.008 | 0 | % 100 |
| 9 | M8 | X | 2.949 | 2.949 | 0 | % 100 |
| 10 | M8 | Z | -1.702 | -1.702 | 0 | % 100 |
| 11 | M10A | X | 2.135 | 2.135 | 0 | % 100 |
| 12 | M10A | Z | -1.232 | -1.232 | 0 | % 100 |
| 13 | FACE | X | .858 | .858 | 0 | % 100 |
| 14 | FACE | Z | -.496 | -.496 | 0 | % 100 |
| 15 | MP1A | X | 2.556 | 2.556 | 0 | % 100 |
| 16 | MP1A | Z | -1.476 | -1.476 | 0 | % 100 |
| 17 | MP2A | X | 2.556 | 2.556 | 0 | % 100 |
| 18 | MP2A | Z | -1.476 | -1.476 | 0 | % 100 |
| 19 | MP3A | X | 2.556 | 2.556 | 0 | % 100 |
| 20 | MP3A | Z | -1.476 | -1.476 | 0 | % 100 |
| 21 | MP4A | X | 2.556 | 2.556 | 0 | % 100 |
| 22 | MP4A | Z | -1.476 | -1.476 | 0 | % 100 |
| 23 | MP5A | X | 2.556 | 2.556 | 0 | % 100 |
| 24 | MP5A | Z | -1.476 | -1.476 | 0 | % 100 |



Member Distributed Loads (BLC 55 : Structure Wi (60 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 77 | M66 | X | .965 | .965 | 0 | %100 |
| 78 | M66 | Z | -.557 | -.557 | 0 | %100 |
| 79 | M67 | X | .965 | .965 | 0 | %100 |
| 80 | M67 | Z | -.557 | -.557 | 0 | %100 |
| 81 | M68 | X | .965 | .965 | 0 | %100 |
| 82 | M68 | Z | -.557 | -.557 | 0 | %100 |
| 83 | M69 | X | 3.859 | 3.859 | 0 | %100 |
| 84 | M69 | Z | -2.228 | -2.228 | 0 | %100 |
| 85 | M73A | X | .706 | .706 | 0 | %100 |
| 86 | M73A | Z | -.408 | -.408 | 0 | %100 |
| 87 | M79 | X | .707 | .707 | 0 | %100 |
| 88 | M79 | Z | -.408 | -.408 | 0 | %100 |
| 89 | M80 | X | 3.501 | 3.501 | 0 | %100 |
| 90 | M80 | Z | -2.021 | -2.021 | 0 | %100 |
| 91 | M81 | X | 2.826 | 2.826 | 0 | %100 |
| 92 | M81 | Z | -1.631 | -1.631 | 0 | %100 |
| 93 | M89 | X | .706 | .706 | 0 | %100 |
| 94 | M89 | Z | -.408 | -.408 | 0 | %100 |
| 95 | M104 | X | .502 | .502 | 0 | %100 |
| 96 | M104 | Z | -.29 | -.29 | 0 | %100 |
| 97 | M105 | X | .711 | .711 | 0 | %100 |
| 98 | M105 | Z | -.41 | -.41 | 0 | %100 |
| 99 | M95 | X | 1.187 | 1.187 | 0 | %100 |
| 100 | M95 | Z | -.685 | -.685 | 0 | %100 |
| 101 | M96 | X | 1.187 | 1.187 | 0 | %100 |
| 102 | M96 | Z | -.685 | -.685 | 0 | %100 |
| 103 | M97 | X | 3.501 | 3.501 | 0 | %100 |
| 104 | M97 | Z | -2.021 | -2.021 | 0 | %100 |
| 105 | M98 | X | .707 | .707 | 0 | %100 |
| 106 | M98 | Z | -.408 | -.408 | 0 | %100 |
| 107 | M90A | X | 2.297 | 2.297 | 0 | %100 |
| 108 | M90A | Z | -1.326 | -1.326 | 0 | %100 |
| 109 | M91A | X | .168 | .168 | 0 | %100 |
| 110 | M91A | Z | -.097 | -.097 | 0 | %100 |
| 111 | M92A | X | 1.222 | 1.222 | 0 | %100 |
| 112 | M92A | Z | -.706 | -.706 | 0 | %100 |
| 113 | M93A | X | .502 | .502 | 0 | %100 |
| 114 | M93A | Z | -.29 | -.29 | 0 | %100 |

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | 1.169 | 1.169 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M2 | X | 1.169 | 1.169 | 0 | %100 |
| 4 | M2 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 2.689 | 2.689 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M6 | X | 2.689 | 2.689 | 0 | %100 |
| 8 | M6 | Z | 0 | 0 | 0 | %100 |
| 9 | M8 | X | 3.405 | 3.405 | 0 | %100 |
| 10 | M8 | Z | 0 | 0 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 11 | M10A | X | 3.287 | 3.287 | 0 %100 |
| 12 | M10A | Z | 0 | 0 | 0 %100 |
| 13 | FACE | X | 0 | 0 | 0 %100 |
| 14 | FACE | Z | 0 | 0 | 0 %100 |
| 15 | MP1A | X | 2.951 | 2.951 | 0 %100 |
| 16 | MP1A | Z | 0 | 0 | 0 %100 |
| 17 | MP2A | X | 2.951 | 2.951 | 0 %100 |
| 18 | MP2A | Z | 0 | 0 | 0 %100 |
| 19 | MP3A | X | 2.951 | 2.951 | 0 %100 |
| 20 | MP3A | Z | 0 | 0 | 0 %100 |
| 21 | MP4A | X | 2.951 | 2.951 | 0 %100 |
| 22 | MP4A | Z | 0 | 0 | 0 %100 |
| 23 | MP5A | X | 2.951 | 2.951 | 0 %100 |
| 24 | MP5A | Z | 0 | 0 | 0 %100 |
| 25 | M22 | X | .292 | .292 | 0 %100 |
| 26 | M22 | Z | 0 | 0 | 0 %100 |
| 27 | M23 | X | .292 | .292 | 0 %100 |
| 28 | M23 | Z | 0 | 0 | 0 %100 |
| 29 | M26 | X | .672 | .672 | 0 %100 |
| 30 | M26 | Z | 0 | 0 | 0 %100 |
| 31 | M27 | X | .672 | .672 | 0 %100 |
| 32 | M27 | Z | 0 | 0 | 0 %100 |
| 33 | M28 | X | 3.405 | 3.405 | 0 %100 |
| 34 | M28 | Z | 0 | 0 | 0 %100 |
| 35 | M31 | X | .822 | .822 | 0 %100 |
| 36 | M31 | Z | 0 | 0 | 0 %100 |
| 37 | M32 | X | 2.973 | 2.973 | 0 %100 |
| 38 | M32 | Z | 0 | 0 | 0 %100 |
| 39 | MP1C | X | 2.951 | 2.951 | 0 %100 |
| 40 | MP1C | Z | 0 | 0 | 0 %100 |
| 41 | MP2C | X | 2.951 | 2.951 | 0 %100 |
| 42 | MP2C | Z | 0 | 0 | 0 %100 |
| 43 | MP3C | X | 2.951 | 2.951 | 0 %100 |
| 44 | MP3C | Z | 0 | 0 | 0 %100 |
| 45 | MP4C | X | 2.951 | 2.951 | 0 %100 |
| 46 | MP4C | Z | 0 | 0 | 0 %100 |
| 47 | MP5C | X | 2.951 | 2.951 | 0 %100 |
| 48 | MP5C | Z | 0 | 0 | 0 %100 |
| 49 | M43 | X | .292 | .292 | 0 %100 |
| 50 | M43 | Z | 0 | 0 | 0 %100 |
| 51 | M44 | X | .292 | .292 | 0 %100 |
| 52 | M44 | Z | 0 | 0 | 0 %100 |
| 53 | M47 | X | .672 | .672 | 0 %100 |
| 54 | M47 | Z | 0 | 0 | 0 %100 |
| 55 | M48 | X | .672 | .672 | 0 %100 |
| 56 | M48 | Z | 0 | 0 | 0 %100 |
| 57 | M49 | X | 3.405 | 3.405 | 0 %100 |
| 58 | M49 | Z | 0 | 0 | 0 %100 |
| 59 | M52 | X | .822 | .822 | 0 %100 |
| 60 | M52 | Z | 0 | 0 | 0 %100 |
| 61 | M53 | X | 2.973 | 2.973 | 0 %100 |
| 62 | M53 | Z | 0 | 0 | 0 %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 63 | MP1B | X | 2.951 | 2.951 | 0 %100 |
| 64 | MP1B | Z | 0 | 0 | 0 %100 |
| 65 | MP2B | X | 2.951 | 2.951 | 0 %100 |
| 66 | MP2B | Z | 0 | 0 | 0 %100 |
| 67 | MP3B | X | 2.951 | 2.951 | 0 %100 |
| 68 | MP3B | Z | 0 | 0 | 0 %100 |
| 69 | MP4B | X | 2.951 | 2.951 | 0 %100 |
| 70 | MP4B | Z | 0 | 0 | 0 %100 |
| 71 | MP5B | X | 2.951 | 2.951 | 0 %100 |
| 72 | MP5B | Z | 0 | 0 | 0 %100 |
| 73 | M64 | X | 3.342 | 3.342 | 0 %100 |
| 74 | M64 | Z | 0 | 0 | 0 %100 |
| 75 | M65 | X | 3.342 | 3.342 | 0 %100 |
| 76 | M65 | Z | 0 | 0 | 0 %100 |
| 77 | M66 | X | 3.342 | 3.342 | 0 %100 |
| 78 | M66 | Z | 0 | 0 | 0 %100 |
| 79 | M67 | X | 0 | 0 | 0 %100 |
| 80 | M67 | Z | 0 | 0 | 0 %100 |
| 81 | M68 | X | 0 | 0 | 0 %100 |
| 82 | M68 | Z | 0 | 0 | 0 %100 |
| 83 | M69 | X | 3.342 | 3.342 | 0 %100 |
| 84 | M69 | Z | 0 | 0 | 0 %100 |
| 85 | M73A | X | 0 | 0 | 0 %100 |
| 86 | M73A | Z | 0 | 0 | 0 %100 |
| 87 | M79 | X | 2.783 | 2.783 | 0 %100 |
| 88 | M79 | Z | 0 | 0 | 0 %100 |
| 89 | M80 | X | 2.783 | 2.783 | 0 %100 |
| 90 | M80 | Z | 0 | 0 | 0 %100 |
| 91 | M81 | X | 2.447 | 2.447 | 0 %100 |
| 92 | M81 | Z | 0 | 0 | 0 %100 |
| 93 | M89 | X | 2.447 | 2.447 | 0 %100 |
| 94 | M89 | Z | 0 | 0 | 0 %100 |
| 95 | M104 | X | 1.967 | 1.967 | 0 %100 |
| 96 | M104 | Z | 0 | 0 | 0 %100 |
| 97 | M105 | X | .007 | .007 | 0 %100 |
| 98 | M105 | Z | 0 | 0 | 0 %100 |
| 99 | M95 | X | .11 | .11 | 0 %100 |
| 100 | M95 | Z | 0 | 0 | 0 %100 |
| 101 | M96 | X | 3.336 | 3.336 | 0 %100 |
| 102 | M96 | Z | 0 | 0 | 0 %100 |
| 103 | M97 | X | 3.336 | 3.336 | 0 %100 |
| 104 | M97 | Z | 0 | 0 | 0 %100 |
| 105 | M98 | X | .11 | .11 | 0 %100 |
| 106 | M98 | Z | 0 | 0 | 0 %100 |
| 107 | M90A | X | 2.644 | 2.644 | 0 %100 |
| 108 | M90A | Z | 0 | 0 | 0 %100 |
| 109 | M91A | X | 1.427 | 1.427 | 0 %100 |
| 110 | M91A | Z | 0 | 0 | 0 %100 |
| 111 | M92A | X | .186 | .186 | 0 %100 |
| 112 | M92A | Z | 0 | 0 | 0 %100 |
| 113 | M93A | X | 1.967 | 1.967 | 0 %100 |
| 114 | M93A | Z | 0 | 0 | 0 %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | .759 | .759 | 0 | %100 |
| 2 | M1 | Z | .438 | .438 | 0 | %100 |
| 3 | M2 | X | .759 | .759 | 0 | %100 |
| 4 | M2 | Z | .438 | .438 | 0 | %100 |
| 5 | M5 | X | 1.747 | 1.747 | 0 | %100 |
| 6 | M5 | Z | 1.008 | 1.008 | 0 | %100 |
| 7 | M6 | X | 1.747 | 1.747 | 0 | %100 |
| 8 | M6 | Z | 1.008 | 1.008 | 0 | %100 |
| 9 | M8 | X | 2.949 | 2.949 | 0 | %100 |
| 10 | M8 | Z | 1.702 | 1.702 | 0 | %100 |
| 11 | M10A | X | 2.135 | 2.135 | 0 | %100 |
| 12 | M10A | Z | 1.232 | 1.232 | 0 | %100 |
| 13 | FACE | X | .858 | .858 | 0 | %100 |
| 14 | FACE | Z | .496 | .496 | 0 | %100 |
| 15 | MP1A | X | 2.556 | 2.556 | 0 | %100 |
| 16 | MP1A | Z | 1.476 | 1.476 | 0 | %100 |
| 17 | MP2A | X | 2.556 | 2.556 | 0 | %100 |
| 18 | MP2A | Z | 1.476 | 1.476 | 0 | %100 |
| 19 | MP3A | X | 2.556 | 2.556 | 0 | %100 |
| 20 | MP3A | Z | 1.476 | 1.476 | 0 | %100 |
| 21 | MP4A | X | 2.556 | 2.556 | 0 | %100 |
| 22 | MP4A | Z | 1.476 | 1.476 | 0 | %100 |
| 23 | MP5A | X | 2.556 | 2.556 | 0 | %100 |
| 24 | MP5A | Z | 1.476 | 1.476 | 0 | %100 |
| 25 | M22 | X | .759 | .759 | 0 | %100 |
| 26 | M22 | Z | .438 | .438 | 0 | %100 |
| 27 | M23 | X | .759 | .759 | 0 | %100 |
| 28 | M23 | Z | .438 | .438 | 0 | %100 |
| 29 | M26 | X | 1.747 | 1.747 | 0 | %100 |
| 30 | M26 | Z | 1.008 | 1.008 | 0 | %100 |
| 31 | M27 | X | 1.747 | 1.747 | 0 | %100 |
| 32 | M27 | Z | 1.008 | 1.008 | 0 | %100 |
| 33 | M28 | X | 2.949 | 2.949 | 0 | %100 |
| 34 | M28 | Z | 1.702 | 1.702 | 0 | %100 |
| 35 | M31 | X | 2.135 | 2.135 | 0 | %100 |
| 36 | M31 | Z | 1.232 | 1.232 | 0 | %100 |
| 37 | M32 | X | .858 | .858 | 0 | %100 |
| 38 | M32 | Z | .496 | .496 | 0 | %100 |
| 39 | MP1C | X | 2.556 | 2.556 | 0 | %100 |
| 40 | MP1C | Z | 1.476 | 1.476 | 0 | %100 |
| 41 | MP2C | X | 2.556 | 2.556 | 0 | %100 |
| 42 | MP2C | Z | 1.476 | 1.476 | 0 | %100 |
| 43 | MP3C | X | 2.556 | 2.556 | 0 | %100 |
| 44 | MP3C | Z | 1.476 | 1.476 | 0 | %100 |
| 45 | MP4C | X | 2.556 | 2.556 | 0 | %100 |
| 46 | MP4C | Z | 1.476 | 1.476 | 0 | %100 |
| 47 | MP5C | X | 2.556 | 2.556 | 0 | %100 |
| 48 | MP5C | Z | 1.476 | 1.476 | 0 | %100 |
| 49 | M43 | X | 0 | 0 | 0 | %100 |
| 50 | M43 | Z | 0 | 0 | 0 | %100 |
| 51 | M44 | X | 0 | 0 | 0 | %100 |
| 52 | M44 | Z | 0 | 0 | 0 | %100 |



Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 53 | M47 | X | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | 0 | 0 | 0 | %100 |
| 55 | M48 | X | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | 0 | 0 | 0 | %100 |
| 57 | M49 | X | 2.949 | 2.949 | 0 | %100 |
| 58 | M49 | Z | 1.702 | 1.702 | 0 | %100 |
| 59 | M52 | X | 0 | 0 | 0 | %100 |
| 60 | M52 | Z | 0 | 0 | 0 | %100 |
| 61 | M53 | X | 3.433 | 3.433 | 0 | %100 |
| 62 | M53 | Z | 1.982 | 1.982 | 0 | %100 |
| 63 | MP1B | X | 2.556 | 2.556 | 0 | %100 |
| 64 | MP1B | Z | 1.476 | 1.476 | 0 | %100 |
| 65 | MP2B | X | 2.556 | 2.556 | 0 | %100 |
| 66 | MP2B | Z | 1.476 | 1.476 | 0 | %100 |
| 67 | MP3B | X | 2.556 | 2.556 | 0 | %100 |
| 68 | MP3B | Z | 1.476 | 1.476 | 0 | %100 |
| 69 | MP4B | X | 2.556 | 2.556 | 0 | %100 |
| 70 | MP4B | Z | 1.476 | 1.476 | 0 | %100 |
| 71 | MP5B | X | 2.556 | 2.556 | 0 | %100 |
| 72 | MP5B | Z | 1.476 | 1.476 | 0 | %100 |
| 73 | M64 | X | .965 | .965 | 0 | %100 |
| 74 | M64 | Z | .557 | .557 | 0 | %100 |
| 75 | M65 | X | 3.859 | 3.859 | 0 | %100 |
| 76 | M65 | Z | 2.228 | 2.228 | 0 | %100 |
| 77 | M66 | X | 3.859 | 3.859 | 0 | %100 |
| 78 | M66 | Z | 2.228 | 2.228 | 0 | %100 |
| 79 | M67 | X | .965 | .965 | 0 | %100 |
| 80 | M67 | Z | .557 | .557 | 0 | %100 |
| 81 | M68 | X | .965 | .965 | 0 | %100 |
| 82 | M68 | Z | .557 | .557 | 0 | %100 |
| 83 | M69 | X | .965 | .965 | 0 | %100 |
| 84 | M69 | Z | .557 | .557 | 0 | %100 |
| 85 | M73A | X | .706 | .706 | 0 | %100 |
| 86 | M73A | Z | .408 | .408 | 0 | %100 |
| 87 | M79 | X | 3.501 | 3.501 | 0 | %100 |
| 88 | M79 | Z | 2.021 | 2.021 | 0 | %100 |
| 89 | M80 | X | .707 | .707 | 0 | %100 |
| 90 | M80 | Z | .408 | .408 | 0 | %100 |
| 91 | M81 | X | .706 | .706 | 0 | %100 |
| 92 | M81 | Z | .408 | .408 | 0 | %100 |
| 93 | M89 | X | 2.826 | 2.826 | 0 | %100 |
| 94 | M89 | Z | 1.631 | 1.631 | 0 | %100 |
| 95 | M104 | X | 2.408 | 2.408 | 0 | %100 |
| 96 | M104 | Z | 1.39 | 1.39 | 0 | %100 |
| 97 | M105 | X | .502 | .502 | 0 | %100 |
| 98 | M105 | Z | .29 | .29 | 0 | %100 |
| 99 | M95 | X | .707 | .707 | 0 | %100 |
| 100 | M95 | Z | .408 | .408 | 0 | %100 |
| 101 | M96 | X | 3.501 | 3.501 | 0 | %100 |
| 102 | M96 | Z | 2.021 | 2.021 | 0 | %100 |
| 103 | M97 | X | 1.187 | 1.187 | 0 | %100 |
| 104 | M97 | Z | .685 | .685 | 0 | %100 |



Company : Maser Consulting
Designer :
Job Number :
Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
2:42 PM
Checked By: _____

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 105 | M98 | X | 1.187 | 1.187 | 0 | % 100 |
| 106 | M98 | Z | .685 | .685 | 0 | % 100 |
| 107 | M90A | X | 1.222 | 1.222 | 0 | % 100 |
| 108 | M90A | Z | .706 | .706 | 0 | % 100 |
| 109 | M91A | X | 2.297 | 2.297 | 0 | % 100 |
| 110 | M91A | Z | 1.326 | 1.326 | 0 | % 100 |
| 111 | M92A | X | .168 | .168 | 0 | % 100 |
| 112 | M92A | Z | .097 | .097 | 0 | % 100 |
| 113 | M93A | X | 2.408 | 2.408 | 0 | % 100 |
| 114 | M93A | Z | 1.39 | 1.39 | 0 | % 100 |

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | .146 | .146 | 0 | % 100 |
| 2 | M1 | Z | .253 | .253 | 0 | % 100 |
| 3 | M2 | X | .146 | .146 | 0 | % 100 |
| 4 | M2 | Z | .253 | .253 | 0 | % 100 |
| 5 | M5 | X | .336 | .336 | 0 | % 100 |
| 6 | M5 | Z | .582 | .582 | 0 | % 100 |
| 7 | M6 | X | .336 | .336 | 0 | % 100 |
| 8 | M6 | Z | .582 | .582 | 0 | % 100 |
| 9 | M8 | X | 1.702 | 1.702 | 0 | % 100 |
| 10 | M8 | Z | 2.949 | 2.949 | 0 | % 100 |
| 11 | M10A | X | .411 | .411 | 0 | % 100 |
| 12 | M10A | Z | .712 | .712 | 0 | % 100 |
| 13 | FACE | X | 1.487 | 1.487 | 0 | % 100 |
| 14 | FACE | Z | 2.575 | 2.575 | 0 | % 100 |
| 15 | MP1A | X | 1.476 | 1.476 | 0 | % 100 |
| 16 | MP1A | Z | 2.556 | 2.556 | 0 | % 100 |
| 17 | MP2A | X | 1.476 | 1.476 | 0 | % 100 |
| 18 | MP2A | Z | 2.556 | 2.556 | 0 | % 100 |
| 19 | MP3A | X | 1.476 | 1.476 | 0 | % 100 |
| 20 | MP3A | Z | 2.556 | 2.556 | 0 | % 100 |
| 21 | MP4A | X | 1.476 | 1.476 | 0 | % 100 |
| 22 | MP4A | Z | 2.556 | 2.556 | 0 | % 100 |
| 23 | MP5A | X | 1.476 | 1.476 | 0 | % 100 |
| 24 | MP5A | Z | 2.556 | 2.556 | 0 | % 100 |
| 25 | M22 | X | .585 | .585 | 0 | % 100 |
| 26 | M22 | Z | 1.013 | 1.013 | 0 | % 100 |
| 27 | M23 | X | .585 | .585 | 0 | % 100 |
| 28 | M23 | Z | 1.013 | 1.013 | 0 | % 100 |
| 29 | M26 | X | 1.344 | 1.344 | 0 | % 100 |
| 30 | M26 | Z | 2.329 | 2.329 | 0 | % 100 |
| 31 | M27 | X | 1.344 | 1.344 | 0 | % 100 |
| 32 | M27 | Z | 2.329 | 2.329 | 0 | % 100 |
| 33 | M28 | X | 1.702 | 1.702 | 0 | % 100 |
| 34 | M28 | Z | 2.949 | 2.949 | 0 | % 100 |
| 35 | M31 | X | 1.643 | 1.643 | 0 | % 100 |
| 36 | M31 | Z | 2.846 | 2.846 | 0 | % 100 |
| 37 | M32 | X | 0 | 0 | 0 | % 100 |
| 38 | M32 | Z | 0 | 0 | 0 | % 100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 39 | MP1C | X | 1.476 | 1.476 | 0 | %100 |
| 40 | MP1C | Z | 2.556 | 2.556 | 0 | %100 |
| 41 | MP2C | X | 1.476 | 1.476 | 0 | %100 |
| 42 | MP2C | Z | 2.556 | 2.556 | 0 | %100 |
| 43 | MP3C | X | 1.476 | 1.476 | 0 | %100 |
| 44 | MP3C | Z | 2.556 | 2.556 | 0 | %100 |
| 45 | MP4C | X | 1.476 | 1.476 | 0 | %100 |
| 46 | MP4C | Z | 2.556 | 2.556 | 0 | %100 |
| 47 | MP5C | X | 1.476 | 1.476 | 0 | %100 |
| 48 | MP5C | Z | 2.556 | 2.556 | 0 | %100 |
| 49 | M43 | X | .146 | .146 | 0 | %100 |
| 50 | M43 | Z | .253 | .253 | 0 | %100 |
| 51 | M44 | X | .146 | .146 | 0 | %100 |
| 52 | M44 | Z | .253 | .253 | 0 | %100 |
| 53 | M47 | X | .336 | .336 | 0 | %100 |
| 54 | M47 | Z | .582 | .582 | 0 | %100 |
| 55 | M48 | X | .336 | .336 | 0 | %100 |
| 56 | M48 | Z | .582 | .582 | 0 | %100 |
| 57 | M49 | X | 1.702 | 1.702 | 0 | %100 |
| 58 | M49 | Z | 2.949 | 2.949 | 0 | %100 |
| 59 | M52 | X | .411 | .411 | 0 | %100 |
| 60 | M52 | Z | .712 | .712 | 0 | %100 |
| 61 | M53 | X | 1.487 | 1.487 | 0 | %100 |
| 62 | M53 | Z | 2.575 | 2.575 | 0 | %100 |
| 63 | MP1B | X | 1.476 | 1.476 | 0 | %100 |
| 64 | MP1B | Z | 2.556 | 2.556 | 0 | %100 |
| 65 | MP2B | X | 1.476 | 1.476 | 0 | %100 |
| 66 | MP2B | Z | 2.556 | 2.556 | 0 | %100 |
| 67 | MP3B | X | 1.476 | 1.476 | 0 | %100 |
| 68 | MP3B | Z | 2.556 | 2.556 | 0 | %100 |
| 69 | MP4B | X | 1.476 | 1.476 | 0 | %100 |
| 70 | MP4B | Z | 2.556 | 2.556 | 0 | %100 |
| 71 | MP5B | X | 1.476 | 1.476 | 0 | %100 |
| 72 | MP5B | Z | 2.556 | 2.556 | 0 | %100 |
| 73 | M64 | X | 0 | 0 | 0 | %100 |
| 74 | M64 | Z | 0 | 0 | 0 | %100 |
| 75 | M65 | X | 1.671 | 1.671 | 0 | %100 |
| 76 | M65 | Z | 2.894 | 2.894 | 0 | %100 |
| 77 | M66 | X | 1.671 | 1.671 | 0 | %100 |
| 78 | M66 | Z | 2.894 | 2.894 | 0 | %100 |
| 79 | M67 | X | 1.671 | 1.671 | 0 | %100 |
| 80 | M67 | Z | 2.894 | 2.894 | 0 | %100 |
| 81 | M68 | X | 1.671 | 1.671 | 0 | %100 |
| 82 | M68 | Z | 2.894 | 2.894 | 0 | %100 |
| 83 | M69 | X | 0 | 0 | 0 | %100 |
| 84 | M69 | Z | 0 | 0 | 0 | %100 |
| 85 | M73A | X | 1.224 | 1.224 | 0 | %100 |
| 86 | M73A | Z | 2.119 | 2.119 | 0 | %100 |
| 87 | M79 | X | 1.668 | 1.668 | 0 | %100 |
| 88 | M79 | Z | 2.889 | 2.889 | 0 | %100 |
| 89 | M80 | X | .055 | .055 | 0 | %100 |
| 90 | M80 | Z | .096 | .096 | 0 | %100 |



Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 91 | M81 | X | 0 | 0 | 0 | %100 |
| 92 | M81 | Z | 0 | 0 | 0 | %100 |
| 93 | M89 | X | 1.224 | 1.224 | 0 | %100 |
| 94 | M89 | Z | 2.119 | 2.119 | 0 | %100 |
| 95 | M104 | X | 1.104 | 1.104 | 0 | %100 |
| 96 | M104 | Z | 1.912 | 1.912 | 0 | %100 |
| 97 | M105 | X | .983 | .983 | 0 | %100 |
| 98 | M105 | Z | 1.703 | 1.703 | 0 | %100 |
| 99 | M95 | X | 1.391 | 1.391 | 0 | %100 |
| 100 | M95 | Z | 2.41 | 2.41 | 0 | %100 |
| 101 | M96 | X | 1.391 | 1.391 | 0 | %100 |
| 102 | M96 | Z | 2.41 | 2.41 | 0 | %100 |
| 103 | M97 | X | .055 | .055 | 0 | %100 |
| 104 | M97 | Z | .096 | .096 | 0 | %100 |
| 105 | M98 | X | 1.668 | 1.668 | 0 | %100 |
| 106 | M98 | Z | 2.889 | 2.889 | 0 | %100 |
| 107 | M90A | X | .093 | .093 | 0 | %100 |
| 108 | M90A | Z | .161 | .161 | 0 | %100 |
| 109 | M91A | X | 1.322 | 1.322 | 0 | %100 |
| 110 | M91A | Z | 2.29 | 2.29 | 0 | %100 |
| 111 | M92A | X | .714 | .714 | 0 | %100 |
| 112 | M92A | Z | 1.236 | 1.236 | 0 | %100 |
| 113 | M93A | X | 1.104 | 1.104 | 0 | %100 |
| 114 | M93A | Z | 1.912 | 1.912 | 0 | %100 |

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M2 | X | 0 | 0 | 0 | %100 |
| 4 | M2 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | 0 | 0 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M6 | X | 0 | 0 | 0 | %100 |
| 8 | M6 | Z | 0 | 0 | 0 | %100 |
| 9 | M8 | X | 0 | 0 | 0 | %100 |
| 10 | M8 | Z | 3.405 | 3.405 | 0 | %100 |
| 11 | M10A | X | 0 | 0 | 0 | %100 |
| 12 | M10A | Z | 0 | 0 | 0 | %100 |
| 13 | FACE | X | 0 | 0 | 0 | %100 |
| 14 | FACE | Z | 3.964 | 3.964 | 0 | %100 |
| 15 | MP1A | X | 0 | 0 | 0 | %100 |
| 16 | MP1A | Z | 2.951 | 2.951 | 0 | %100 |
| 17 | MP2A | X | 0 | 0 | 0 | %100 |
| 18 | MP2A | Z | 2.951 | 2.951 | 0 | %100 |
| 19 | MP3A | X | 0 | 0 | 0 | %100 |
| 20 | MP3A | Z | 2.951 | 2.951 | 0 | %100 |
| 21 | MP4A | X | 0 | 0 | 0 | %100 |
| 22 | MP4A | Z | 2.951 | 2.951 | 0 | %100 |
| 23 | MP5A | X | 0 | 0 | 0 | %100 |
| 24 | MP5A | Z | 2.951 | 2.951 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 77 | M66 | X | 0 | 0 | 0 | %100 |
| 78 | M66 | Z | 1.114 | 1.114 | 0 | %100 |
| 79 | M67 | X | 0 | 0 | 0 | %100 |
| 80 | M67 | Z | 4.456 | 4.456 | 0 | %100 |
| 81 | M68 | X | 0 | 0 | 0 | %100 |
| 82 | M68 | Z | 4.456 | 4.456 | 0 | %100 |
| 83 | M69 | X | 0 | 0 | 0 | %100 |
| 84 | M69 | Z | 1.114 | 1.114 | 0 | %100 |
| 85 | M73A | X | 0 | 0 | 0 | %100 |
| 86 | M73A | Z | 3.263 | 3.263 | 0 | %100 |
| 87 | M79 | X | 0 | 0 | 0 | %100 |
| 88 | M79 | Z | 1.37 | 1.37 | 0 | %100 |
| 89 | M80 | X | 0 | 0 | 0 | %100 |
| 90 | M80 | Z | 1.37 | 1.37 | 0 | %100 |
| 91 | M81 | X | 0 | 0 | 0 | %100 |
| 92 | M81 | Z | .816 | .816 | 0 | %100 |
| 93 | M89 | X | 0 | 0 | 0 | %100 |
| 94 | M89 | Z | .816 | .816 | 0 | %100 |
| 95 | M104 | X | 0 | 0 | 0 | %100 |
| 96 | M104 | Z | .821 | .821 | 0 | %100 |
| 97 | M105 | X | 0 | 0 | 0 | %100 |
| 98 | M105 | Z | 2.78 | 2.78 | 0 | %100 |
| 99 | M95 | X | 0 | 0 | 0 | %100 |
| 100 | M95 | Z | 4.042 | 4.042 | 0 | %100 |
| 101 | M96 | X | 0 | 0 | 0 | %100 |
| 102 | M96 | Z | .817 | .817 | 0 | %100 |
| 103 | M97 | X | 0 | 0 | 0 | %100 |
| 104 | M97 | Z | .817 | .817 | 0 | %100 |
| 105 | M98 | X | 0 | 0 | 0 | %100 |
| 106 | M98 | Z | 4.042 | 4.042 | 0 | %100 |
| 107 | M90A | X | 0 | 0 | 0 | %100 |
| 108 | M90A | Z | .194 | .194 | 0 | %100 |
| 109 | M91A | X | 0 | 0 | 0 | %100 |
| 110 | M91A | Z | 1.411 | 1.411 | 0 | %100 |
| 111 | M92A | X | 0 | 0 | 0 | %100 |
| 112 | M92A | Z | 2.652 | 2.652 | 0 | %100 |
| 113 | M93A | X | 0 | 0 | 0 | %100 |
| 114 | M93A | Z | .821 | .821 | 0 | %100 |

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | -.146 | -.146 | 0 | %100 |
| 2 | M1 | Z | .253 | .253 | 0 | %100 |
| 3 | M2 | X | -.146 | -.146 | 0 | %100 |
| 4 | M2 | Z | .253 | .253 | 0 | %100 |
| 5 | M5 | X | -.336 | -.336 | 0 | %100 |
| 6 | M5 | Z | .582 | .582 | 0 | %100 |
| 7 | M6 | X | -.336 | -.336 | 0 | %100 |
| 8 | M6 | Z | .582 | .582 | 0 | %100 |
| 9 | M8 | X | -1.702 | -1.702 | 0 | %100 |
| 10 | M8 | Z | 2.949 | 2.949 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 63 | MP1B | X | -1.476 | -1.476 | 0 | %100 |
| 64 | MP1B | Z | 2.556 | 2.556 | 0 | %100 |
| 65 | MP2B | X | -1.476 | -1.476 | 0 | %100 |
| 66 | MP2B | Z | 2.556 | 2.556 | 0 | %100 |
| 67 | MP3B | X | -1.476 | -1.476 | 0 | %100 |
| 68 | MP3B | Z | 2.556 | 2.556 | 0 | %100 |
| 69 | MP4B | X | -1.476 | -1.476 | 0 | %100 |
| 70 | MP4B | Z | 2.556 | 2.556 | 0 | %100 |
| 71 | MP5B | X | -1.476 | -1.476 | 0 | %100 |
| 72 | MP5B | Z | 2.556 | 2.556 | 0 | %100 |
| 73 | M64 | X | -1.671 | -1.671 | 0 | %100 |
| 74 | M64 | Z | 2.894 | 2.894 | 0 | %100 |
| 75 | M65 | X | 0 | 0 | 0 | %100 |
| 76 | M65 | Z | 0 | 0 | 0 | %100 |
| 77 | M66 | X | 0 | 0 | 0 | %100 |
| 78 | M66 | Z | 0 | 0 | 0 | %100 |
| 79 | M67 | X | -1.671 | -1.671 | 0 | %100 |
| 80 | M67 | Z | 2.894 | 2.894 | 0 | %100 |
| 81 | M68 | X | -1.671 | -1.671 | 0 | %100 |
| 82 | M68 | Z | 2.894 | 2.894 | 0 | %100 |
| 83 | M69 | X | -1.671 | -1.671 | 0 | %100 |
| 84 | M69 | Z | 2.894 | 2.894 | 0 | %100 |
| 85 | M73A | X | -1.224 | -1.224 | 0 | %100 |
| 86 | M73A | Z | 2.119 | 2.119 | 0 | %100 |
| 87 | M79 | X | -.055 | -.055 | 0 | %100 |
| 88 | M79 | Z | .096 | .096 | 0 | %100 |
| 89 | M80 | X | -1.668 | -1.668 | 0 | %100 |
| 90 | M80 | Z | 2.889 | 2.889 | 0 | %100 |
| 91 | M81 | X | -1.224 | -1.224 | 0 | %100 |
| 92 | M81 | Z | 2.119 | 2.119 | 0 | %100 |
| 93 | M89 | X | 0 | 0 | 0 | %100 |
| 94 | M89 | Z | 0 | 0 | 0 | %100 |
| 95 | M104 | X | -.003 | -.003 | 0 | %100 |
| 96 | M104 | Z | .006 | .006 | 0 | %100 |
| 97 | M105 | X | -1.104 | -1.104 | 0 | %100 |
| 98 | M105 | Z | 1.912 | 1.912 | 0 | %100 |
| 99 | M95 | X | -1.668 | -1.668 | 0 | %100 |
| 100 | M95 | Z | 2.889 | 2.889 | 0 | %100 |
| 101 | M96 | X | -.055 | -.055 | 0 | %100 |
| 102 | M96 | Z | .096 | .096 | 0 | %100 |
| 103 | M97 | X | -1.391 | -1.391 | 0 | %100 |
| 104 | M97 | Z | 2.41 | 2.41 | 0 | %100 |
| 105 | M98 | X | -1.391 | -1.391 | 0 | %100 |
| 106 | M98 | Z | 2.41 | 2.41 | 0 | %100 |
| 107 | M90A | X | -.714 | -.714 | 0 | %100 |
| 108 | M90A | Z | 1.236 | 1.236 | 0 | %100 |
| 109 | M91A | X | -.093 | -.093 | 0 | %100 |
| 110 | M91A | Z | .161 | .161 | 0 | %100 |
| 111 | M92A | X | -1.322 | -1.322 | 0 | %100 |
| 112 | M92A | Z | 2.29 | 2.29 | 0 | %100 |
| 113 | M93A | X | -.003 | -.003 | 0 | %100 |
| 114 | M93A | Z | .006 | .006 | 0 | %100 |



Company : Maser Consulting
Designer :
Job Number :
Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
2:42 PM
Checked By: _____

Member Distributed Loads (BLC 61 : Structure Wi (240 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in,%] | End Location[in,%] |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 53 | M47 | X | -1.747 | -1.747 | 0 | %100 |
| 54 | M47 | Z | 1.008 | 1.008 | 0 | %100 |
| 55 | M48 | X | -1.747 | -1.747 | 0 | %100 |
| 56 | M48 | Z | 1.008 | 1.008 | 0 | %100 |
| 57 | M49 | X | -2.949 | -2.949 | 0 | %100 |
| 58 | M49 | Z | 1.702 | 1.702 | 0 | %100 |
| 59 | M52 | X | -2.135 | -2.135 | 0 | %100 |
| 60 | M52 | Z | 1.232 | 1.232 | 0 | %100 |
| 61 | M53 | X | -.858 | -.858 | 0 | %100 |
| 62 | M53 | Z | .496 | .496 | 0 | %100 |
| 63 | MP1B | X | -2.556 | -2.556 | 0 | %100 |
| 64 | MP1B | Z | 1.476 | 1.476 | 0 | %100 |
| 65 | MP2B | X | -2.556 | -2.556 | 0 | %100 |
| 66 | MP2B | Z | 1.476 | 1.476 | 0 | %100 |
| 67 | MP3B | X | -2.556 | -2.556 | 0 | %100 |
| 68 | MP3B | Z | 1.476 | 1.476 | 0 | %100 |
| 69 | MP4B | X | -2.556 | -2.556 | 0 | %100 |
| 70 | MP4B | Z | 1.476 | 1.476 | 0 | %100 |
| 71 | MP5B | X | -2.556 | -2.556 | 0 | %100 |
| 72 | MP5B | Z | 1.476 | 1.476 | 0 | %100 |
| 73 | M64 | X | -3.859 | -3.859 | 0 | %100 |
| 74 | M64 | Z | 2.228 | 2.228 | 0 | %100 |
| 75 | M65 | X | -.965 | -.965 | 0 | %100 |
| 76 | M65 | Z | .557 | .557 | 0 | %100 |
| 77 | M66 | X | -.965 | -.965 | 0 | %100 |
| 78 | M66 | Z | .557 | .557 | 0 | %100 |
| 79 | M67 | X | -.965 | -.965 | 0 | %100 |
| 80 | M67 | Z | .557 | .557 | 0 | %100 |
| 81 | M68 | X | -.965 | -.965 | 0 | %100 |
| 82 | M68 | Z | .557 | .557 | 0 | %100 |
| 83 | M69 | X | -3.859 | -3.859 | 0 | %100 |
| 84 | M69 | Z | 2.228 | 2.228 | 0 | %100 |
| 85 | M73A | X | -.706 | -.706 | 0 | %100 |
| 86 | M73A | Z | .408 | .408 | 0 | %100 |
| 87 | M79 | X | -.707 | -.707 | 0 | %100 |
| 88 | M79 | Z | .408 | .408 | 0 | %100 |
| 89 | M80 | X | -3.501 | -3.501 | 0 | %100 |
| 90 | M80 | Z | 2.021 | 2.021 | 0 | %100 |
| 91 | M81 | X | -2.826 | -2.826 | 0 | %100 |
| 92 | M81 | Z | 1.631 | 1.631 | 0 | %100 |
| 93 | M89 | X | -.706 | -.706 | 0 | %100 |
| 94 | M89 | Z | .408 | .408 | 0 | %100 |
| 95 | M104 | X | -.502 | -.502 | 0 | %100 |
| 96 | M104 | Z | .29 | .29 | 0 | %100 |
| 97 | M105 | X | -.711 | -.711 | 0 | %100 |
| 98 | M105 | Z | .41 | .41 | 0 | %100 |
| 99 | M95 | X | -1.187 | -1.187 | 0 | %100 |
| 100 | M95 | Z | .685 | .685 | 0 | %100 |
| 101 | M96 | X | -1.187 | -1.187 | 0 | %100 |
| 102 | M96 | Z | .685 | .685 | 0 | %100 |
| 103 | M97 | X | -3.501 | -3.501 | 0 | %100 |
| 104 | M97 | Z | 2.021 | 2.021 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in,%] | End Location[in,%] |
|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 39 | MP1C | X | -2.951 | -2.951 | 0 %100 |
| 40 | MP1C | Z | 0 | 0 | 0 %100 |
| 41 | MP2C | X | -2.951 | -2.951 | 0 %100 |
| 42 | MP2C | Z | 0 | 0 | 0 %100 |
| 43 | MP3C | X | -2.951 | -2.951 | 0 %100 |
| 44 | MP3C | Z | 0 | 0 | 0 %100 |
| 45 | MP4C | X | -2.951 | -2.951 | 0 %100 |
| 46 | MP4C | Z | 0 | 0 | 0 %100 |
| 47 | MP5C | X | -2.951 | -2.951 | 0 %100 |
| 48 | MP5C | Z | 0 | 0 | 0 %100 |
| 49 | M43 | X | -.292 | -.292 | 0 %100 |
| 50 | M43 | Z | 0 | 0 | 0 %100 |
| 51 | M44 | X | -.292 | -.292 | 0 %100 |
| 52 | M44 | Z | 0 | 0 | 0 %100 |
| 53 | M47 | X | -.672 | -.672 | 0 %100 |
| 54 | M47 | Z | 0 | 0 | 0 %100 |
| 55 | M48 | X | -.672 | -.672 | 0 %100 |
| 56 | M48 | Z | 0 | 0 | 0 %100 |
| 57 | M49 | X | -3.405 | -3.405 | 0 %100 |
| 58 | M49 | Z | 0 | 0 | 0 %100 |
| 59 | M52 | X | -.822 | -.822 | 0 %100 |
| 60 | M52 | Z | 0 | 0 | 0 %100 |
| 61 | M53 | X | -2.973 | -2.973 | 0 %100 |
| 62 | M53 | Z | 0 | 0 | 0 %100 |
| 63 | MP1B | X | -2.951 | -2.951 | 0 %100 |
| 64 | MP1B | Z | 0 | 0 | 0 %100 |
| 65 | MP2B | X | -2.951 | -2.951 | 0 %100 |
| 66 | MP2B | Z | 0 | 0 | 0 %100 |
| 67 | MP3B | X | -2.951 | -2.951 | 0 %100 |
| 68 | MP3B | Z | 0 | 0 | 0 %100 |
| 69 | MP4B | X | -2.951 | -2.951 | 0 %100 |
| 70 | MP4B | Z | 0 | 0 | 0 %100 |
| 71 | MP5B | X | -2.951 | -2.951 | 0 %100 |
| 72 | MP5B | Z | 0 | 0 | 0 %100 |
| 73 | M64 | X | -3.342 | -3.342 | 0 %100 |
| 74 | M64 | Z | 0 | 0 | 0 %100 |
| 75 | M65 | X | -3.342 | -3.342 | 0 %100 |
| 76 | M65 | Z | 0 | 0 | 0 %100 |
| 77 | M66 | X | -3.342 | -3.342 | 0 %100 |
| 78 | M66 | Z | 0 | 0 | 0 %100 |
| 79 | M67 | X | 0 | 0 | 0 %100 |
| 80 | M67 | Z | 0 | 0 | 0 %100 |
| 81 | M68 | X | 0 | 0 | 0 %100 |
| 82 | M68 | Z | 0 | 0 | 0 %100 |
| 83 | M69 | X | -3.342 | -3.342 | 0 %100 |
| 84 | M69 | Z | 0 | 0 | 0 %100 |
| 85 | M73A | X | 0 | 0 | 0 %100 |
| 86 | M73A | Z | 0 | 0 | 0 %100 |
| 87 | M79 | X | -2.783 | -2.783 | 0 %100 |
| 88 | M79 | Z | 0 | 0 | 0 %100 |
| 89 | M80 | X | -2.783 | -2.783 | 0 %100 |
| 90 | M80 | Z | 0 | 0 | 0 %100 |



Company : Maser Consulting
Designer :
Job Number :
Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
2:42 PM
Checked By: _____

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 91 | M81 | X | -2.447 | -2.447 | 0 | % 100 |
| 92 | M81 | Z | 0 | 0 | 0 | % 100 |
| 93 | M89 | X | -2.447 | -2.447 | 0 | % 100 |
| 94 | M89 | Z | 0 | 0 | 0 | % 100 |
| 95 | M104 | X | -1.967 | -1.967 | 0 | % 100 |
| 96 | M104 | Z | 0 | 0 | 0 | % 100 |
| 97 | M105 | X | -.007 | -.007 | 0 | % 100 |
| 98 | M105 | Z | 0 | 0 | 0 | % 100 |
| 99 | M95 | X | -.11 | -.11 | 0 | % 100 |
| 100 | M95 | Z | 0 | 0 | 0 | % 100 |
| 101 | M96 | X | -3.336 | -3.336 | 0 | % 100 |
| 102 | M96 | Z | 0 | 0 | 0 | % 100 |
| 103 | M97 | X | -3.336 | -3.336 | 0 | % 100 |
| 104 | M97 | Z | 0 | 0 | 0 | % 100 |
| 105 | M98 | X | -.11 | -.11 | 0 | % 100 |
| 106 | M98 | Z | 0 | 0 | 0 | % 100 |
| 107 | M90A | X | -2.644 | -2.644 | 0 | % 100 |
| 108 | M90A | Z | 0 | 0 | 0 | % 100 |
| 109 | M91A | X | -1.427 | -1.427 | 0 | % 100 |
| 110 | M91A | Z | 0 | 0 | 0 | % 100 |
| 111 | M92A | X | -.186 | -.186 | 0 | % 100 |
| 112 | M92A | Z | 0 | 0 | 0 | % 100 |
| 113 | M93A | X | -1.967 | -1.967 | 0 | % 100 |
| 114 | M93A | Z | 0 | 0 | 0 | % 100 |

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | -.759 | -.759 | 0 | % 100 |
| 2 | M1 | Z | -.438 | -.438 | 0 | % 100 |
| 3 | M2 | X | -.759 | -.759 | 0 | % 100 |
| 4 | M2 | Z | -.438 | -.438 | 0 | % 100 |
| 5 | M5 | X | -1.747 | -1.747 | 0 | % 100 |
| 6 | M5 | Z | -1.008 | -1.008 | 0 | % 100 |
| 7 | M6 | X | -1.747 | -1.747 | 0 | % 100 |
| 8 | M6 | Z | -1.008 | -1.008 | 0 | % 100 |
| 9 | M8 | X | -2.949 | -2.949 | 0 | % 100 |
| 10 | M8 | Z | -1.702 | -1.702 | 0 | % 100 |
| 11 | M10A | X | -2.135 | -2.135 | 0 | % 100 |
| 12 | M10A | Z | -1.232 | -1.232 | 0 | % 100 |
| 13 | FACE | X | -.858 | -.858 | 0 | % 100 |
| 14 | FACE | Z | -.496 | -.496 | 0 | % 100 |
| 15 | MP1A | X | -2.556 | -2.556 | 0 | % 100 |
| 16 | MP1A | Z | -1.476 | -1.476 | 0 | % 100 |
| 17 | MP2A | X | -2.556 | -2.556 | 0 | % 100 |
| 18 | MP2A | Z | -1.476 | -1.476 | 0 | % 100 |
| 19 | MP3A | X | -2.556 | -2.556 | 0 | % 100 |
| 20 | MP3A | Z | -1.476 | -1.476 | 0 | % 100 |
| 21 | MP4A | X | -2.556 | -2.556 | 0 | % 100 |
| 22 | MP4A | Z | -1.476 | -1.476 | 0 | % 100 |
| 23 | MP5A | X | -2.556 | -2.556 | 0 | % 100 |
| 24 | MP5A | Z | -1.476 | -1.476 | 0 | % 100 |

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 25 | M22 | X | -.759 | -.759 | 0 | %100 |
| 26 | M22 | Z | -.438 | -.438 | 0 | %100 |
| 27 | M23 | X | -.759 | -.759 | 0 | %100 |
| 28 | M23 | Z | -.438 | -.438 | 0 | %100 |
| 29 | M26 | X | -1.747 | -1.747 | 0 | %100 |
| 30 | M26 | Z | -1.008 | -1.008 | 0 | %100 |
| 31 | M27 | X | -1.747 | -1.747 | 0 | %100 |
| 32 | M27 | Z | -1.008 | -1.008 | 0 | %100 |
| 33 | M28 | X | -2.949 | -2.949 | 0 | %100 |
| 34 | M28 | Z | -1.702 | -1.702 | 0 | %100 |
| 35 | M31 | X | -2.135 | -2.135 | 0 | %100 |
| 36 | M31 | Z | -1.232 | -1.232 | 0 | %100 |
| 37 | M32 | X | -.858 | -.858 | 0 | %100 |
| 38 | M32 | Z | -.496 | -.496 | 0 | %100 |
| 39 | MP1C | X | -2.556 | -2.556 | 0 | %100 |
| 40 | MP1C | Z | -1.476 | -1.476 | 0 | %100 |
| 41 | MP2C | X | -2.556 | -2.556 | 0 | %100 |
| 42 | MP2C | Z | -1.476 | -1.476 | 0 | %100 |
| 43 | MP3C | X | -2.556 | -2.556 | 0 | %100 |
| 44 | MP3C | Z | -1.476 | -1.476 | 0 | %100 |
| 45 | MP4C | X | -2.556 | -2.556 | 0 | %100 |
| 46 | MP4C | Z | -1.476 | -1.476 | 0 | %100 |
| 47 | MP5C | X | -2.556 | -2.556 | 0 | %100 |
| 48 | MP5C | Z | -1.476 | -1.476 | 0 | %100 |
| 49 | M43 | X | 0 | 0 | 0 | %100 |
| 50 | M43 | Z | 0 | 0 | 0 | %100 |
| 51 | M44 | X | 0 | 0 | 0 | %100 |
| 52 | M44 | Z | 0 | 0 | 0 | %100 |
| 53 | M47 | X | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | 0 | 0 | 0 | %100 |
| 55 | M48 | X | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | 0 | 0 | 0 | %100 |
| 57 | M49 | X | -2.949 | -2.949 | 0 | %100 |
| 58 | M49 | Z | -1.702 | -1.702 | 0 | %100 |
| 59 | M52 | X | 0 | 0 | 0 | %100 |
| 60 | M52 | Z | 0 | 0 | 0 | %100 |
| 61 | M53 | X | -3.433 | -3.433 | 0 | %100 |
| 62 | M53 | Z | -1.982 | -1.982 | 0 | %100 |
| 63 | MP1B | X | -2.556 | -2.556 | 0 | %100 |
| 64 | MP1B | Z | -1.476 | -1.476 | 0 | %100 |
| 65 | MP2B | X | -2.556 | -2.556 | 0 | %100 |
| 66 | MP2B | Z | -1.476 | -1.476 | 0 | %100 |
| 67 | MP3B | X | -2.556 | -2.556 | 0 | %100 |
| 68 | MP3B | Z | -1.476 | -1.476 | 0 | %100 |
| 69 | MP4B | X | -2.556 | -2.556 | 0 | %100 |
| 70 | MP4B | Z | -1.476 | -1.476 | 0 | %100 |
| 71 | MP5B | X | -2.556 | -2.556 | 0 | %100 |
| 72 | MP5B | Z | -1.476 | -1.476 | 0 | %100 |
| 73 | M64 | X | -.965 | -.965 | 0 | %100 |
| 74 | M64 | Z | -.557 | -.557 | 0 | %100 |
| 75 | M65 | X | -3.859 | -3.859 | 0 | %100 |
| 76 | M65 | Z | -2.228 | -2.228 | 0 | %100 |



Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 77 | M66 | X | -3.859 | -3.859 | 0 | %100 |
| 78 | M66 | Z | -2.228 | -2.228 | 0 | %100 |
| 79 | M67 | X | -.965 | -.965 | 0 | %100 |
| 80 | M67 | Z | -.557 | -.557 | 0 | %100 |
| 81 | M68 | X | -.965 | -.965 | 0 | %100 |
| 82 | M68 | Z | -.557 | -.557 | 0 | %100 |
| 83 | M69 | X | -.965 | -.965 | 0 | %100 |
| 84 | M69 | Z | -.557 | -.557 | 0 | %100 |
| 85 | M73A | X | -.706 | -.706 | 0 | %100 |
| 86 | M73A | Z | -.408 | -.408 | 0 | %100 |
| 87 | M79 | X | -3.501 | -3.501 | 0 | %100 |
| 88 | M79 | Z | -2.021 | -2.021 | 0 | %100 |
| 89 | M80 | X | -.707 | -.707 | 0 | %100 |
| 90 | M80 | Z | -.408 | -.408 | 0 | %100 |
| 91 | M81 | X | -.706 | -.706 | 0 | %100 |
| 92 | M81 | Z | -.408 | -.408 | 0 | %100 |
| 93 | M89 | X | -2.826 | -2.826 | 0 | %100 |
| 94 | M89 | Z | -1.631 | -1.631 | 0 | %100 |
| 95 | M104 | X | -2.408 | -2.408 | 0 | %100 |
| 96 | M104 | Z | -1.39 | -1.39 | 0 | %100 |
| 97 | M105 | X | -.502 | -.502 | 0 | %100 |
| 98 | M105 | Z | -.29 | -.29 | 0 | %100 |
| 99 | M95 | X | -.707 | -.707 | 0 | %100 |
| 100 | M95 | Z | -.408 | -.408 | 0 | %100 |
| 101 | M96 | X | -3.501 | -3.501 | 0 | %100 |
| 102 | M96 | Z | -2.021 | -2.021 | 0 | %100 |
| 103 | M97 | X | -1.187 | -1.187 | 0 | %100 |
| 104 | M97 | Z | -.685 | -.685 | 0 | %100 |
| 105 | M98 | X | -1.187 | -1.187 | 0 | %100 |
| 106 | M98 | Z | -.685 | -.685 | 0 | %100 |
| 107 | M90A | X | -1.222 | -1.222 | 0 | %100 |
| 108 | M90A | Z | -.706 | -.706 | 0 | %100 |
| 109 | M91A | X | -2.297 | -2.297 | 0 | %100 |
| 110 | M91A | Z | -1.326 | -1.326 | 0 | %100 |
| 111 | M92A | X | -.168 | -.168 | 0 | %100 |
| 112 | M92A | Z | -.097 | -.097 | 0 | %100 |
| 113 | M93A | X | -2.408 | -2.408 | 0 | %100 |
| 114 | M93A | Z | -1.39 | -1.39 | 0 | %100 |

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | -.146 | -.146 | 0 | %100 |
| 2 | M1 | Z | -.253 | -.253 | 0 | %100 |
| 3 | M2 | X | -.146 | -.146 | 0 | %100 |
| 4 | M2 | Z | -.253 | -.253 | 0 | %100 |
| 5 | M5 | X | -.336 | -.336 | 0 | %100 |
| 6 | M5 | Z | -.582 | -.582 | 0 | %100 |
| 7 | M6 | X | -.336 | -.336 | 0 | %100 |
| 8 | M6 | Z | -.582 | -.582 | 0 | %100 |
| 9 | M8 | X | -1.702 | -1.702 | 0 | %100 |
| 10 | M8 | Z | -2.949 | -2.949 | 0 | %100 |



Member Distributed Loads (BLC 64 : Structure Wi (330 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 63 | MP1B | X | -1.476 | -1.476 | 0 | %100 |
| 64 | MP1B | Z | -2.556 | -2.556 | 0 | %100 |
| 65 | MP2B | X | -1.476 | -1.476 | 0 | %100 |
| 66 | MP2B | Z | -2.556 | -2.556 | 0 | %100 |
| 67 | MP3B | X | -1.476 | -1.476 | 0 | %100 |
| 68 | MP3B | Z | -2.556 | -2.556 | 0 | %100 |
| 69 | MP4B | X | -1.476 | -1.476 | 0 | %100 |
| 70 | MP4B | Z | -2.556 | -2.556 | 0 | %100 |
| 71 | MP5B | X | -1.476 | -1.476 | 0 | %100 |
| 72 | MP5B | Z | -2.556 | -2.556 | 0 | %100 |
| 73 | M64 | X | 0 | 0 | 0 | %100 |
| 74 | M64 | Z | 0 | 0 | 0 | %100 |
| 75 | M65 | X | -1.671 | -1.671 | 0 | %100 |
| 76 | M65 | Z | -2.894 | -2.894 | 0 | %100 |
| 77 | M66 | X | -1.671 | -1.671 | 0 | %100 |
| 78 | M66 | Z | -2.894 | -2.894 | 0 | %100 |
| 79 | M67 | X | -1.671 | -1.671 | 0 | %100 |
| 80 | M67 | Z | -2.894 | -2.894 | 0 | %100 |
| 81 | M68 | X | -1.671 | -1.671 | 0 | %100 |
| 82 | M68 | Z | -2.894 | -2.894 | 0 | %100 |
| 83 | M69 | X | 0 | 0 | 0 | %100 |
| 84 | M69 | Z | 0 | 0 | 0 | %100 |
| 85 | M73A | X | -1.224 | -1.224 | 0 | %100 |
| 86 | M73A | Z | -2.119 | -2.119 | 0 | %100 |
| 87 | M79 | X | -1.668 | -1.668 | 0 | %100 |
| 88 | M79 | Z | -2.889 | -2.889 | 0 | %100 |
| 89 | M80 | X | -.055 | -.055 | 0 | %100 |
| 90 | M80 | Z | -.096 | -.096 | 0 | %100 |
| 91 | M81 | X | 0 | 0 | 0 | %100 |
| 92 | M81 | Z | 0 | 0 | 0 | %100 |
| 93 | M89 | X | -1.224 | -1.224 | 0 | %100 |
| 94 | M89 | Z | -2.119 | -2.119 | 0 | %100 |
| 95 | M104 | X | -1.104 | -1.104 | 0 | %100 |
| 96 | M104 | Z | -1.912 | -1.912 | 0 | %100 |
| 97 | M105 | X | -.983 | -.983 | 0 | %100 |
| 98 | M105 | Z | -1.703 | -1.703 | 0 | %100 |
| 99 | M95 | X | -1.391 | -1.391 | 0 | %100 |
| 100 | M95 | Z | -2.41 | -2.41 | 0 | %100 |
| 101 | M96 | X | -1.391 | -1.391 | 0 | %100 |
| 102 | M96 | Z | -2.41 | -2.41 | 0 | %100 |
| 103 | M97 | X | -.055 | -.055 | 0 | %100 |
| 104 | M97 | Z | -.096 | -.096 | 0 | %100 |
| 105 | M98 | X | -1.668 | -1.668 | 0 | %100 |
| 106 | M98 | Z | -2.889 | -2.889 | 0 | %100 |
| 107 | M90A | X | -.093 | -.093 | 0 | %100 |
| 108 | M90A | Z | -.161 | -.161 | 0 | %100 |
| 109 | M91A | X | -1.322 | -1.322 | 0 | %100 |
| 110 | M91A | Z | -2.29 | -2.29 | 0 | %100 |
| 111 | M92A | X | -.714 | -.714 | 0 | %100 |
| 112 | M92A | Z | -1.236 | -1.236 | 0 | %100 |
| 113 | M93A | X | -1.104 | -1.104 | 0 | %100 |
| 114 | M93A | Z | -1.912 | -1.912 | 0 | %100 |



Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 53 | M47 | X | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | -.479 | -.479 | 0 | %100 |
| 55 | M48 | X | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | -.479 | -.479 | 0 | %100 |
| 57 | M49 | X | 0 | 0 | 0 | %100 |
| 58 | M49 | Z | -.641 | -.641 | 0 | %100 |
| 59 | M52 | X | 0 | 0 | 0 | %100 |
| 60 | M52 | Z | -.543 | -.543 | 0 | %100 |
| 61 | M53 | X | 0 | 0 | 0 | %100 |
| 62 | M53 | Z | -.195 | -.195 | 0 | %100 |
| 63 | MP1B | X | 0 | 0 | 0 | %100 |
| 64 | MP1B | Z | -.533 | -.533 | 0 | %100 |
| 65 | MP2B | X | 0 | 0 | 0 | %100 |
| 66 | MP2B | Z | -.533 | -.533 | 0 | %100 |
| 67 | MP3B | X | 0 | 0 | 0 | %100 |
| 68 | MP3B | Z | -.533 | -.533 | 0 | %100 |
| 69 | MP4B | X | 0 | 0 | 0 | %100 |
| 70 | MP4B | Z | -.533 | -.533 | 0 | %100 |
| 71 | MP5B | X | 0 | 0 | 0 | %100 |
| 72 | MP5B | Z | -.533 | -.533 | 0 | %100 |
| 73 | M64 | X | 0 | 0 | 0 | %100 |
| 74 | M64 | Z | -.285 | -.285 | 0 | %100 |
| 75 | M65 | X | 0 | 0 | 0 | %100 |
| 76 | M65 | Z | -.285 | -.285 | 0 | %100 |
| 77 | M66 | X | 0 | 0 | 0 | %100 |
| 78 | M66 | Z | -.285 | -.285 | 0 | %100 |
| 79 | M67 | X | 0 | 0 | 0 | %100 |
| 80 | M67 | Z | -1.141 | -1.141 | 0 | %100 |
| 81 | M68 | X | 0 | 0 | 0 | %100 |
| 82 | M68 | Z | -1.141 | -1.141 | 0 | %100 |
| 83 | M69 | X | 0 | 0 | 0 | %100 |
| 84 | M69 | Z | -.285 | -.285 | 0 | %100 |
| 85 | M73A | X | 0 | 0 | 0 | %100 |
| 86 | M73A | Z | -.645 | -.645 | 0 | %100 |
| 87 | M79 | X | 0 | 0 | 0 | %100 |
| 88 | M79 | Z | -.315 | -.315 | 0 | %100 |
| 89 | M80 | X | 0 | 0 | 0 | %100 |
| 90 | M80 | Z | -.315 | -.315 | 0 | %100 |
| 91 | M81 | X | 0 | 0 | 0 | %100 |
| 92 | M81 | Z | -.161 | -.161 | 0 | %100 |
| 93 | M89 | X | 0 | 0 | 0 | %100 |
| 94 | M89 | Z | -.161 | -.161 | 0 | %100 |
| 95 | M104 | X | 0 | 0 | 0 | %100 |
| 96 | M104 | Z | -.148 | -.148 | 0 | %100 |
| 97 | M105 | X | 0 | 0 | 0 | %100 |
| 98 | M105 | Z | -.501 | -.501 | 0 | %100 |
| 99 | M95 | X | 0 | 0 | 0 | %100 |
| 100 | M95 | Z | -.929 | -.929 | 0 | %100 |
| 101 | M96 | X | 0 | 0 | 0 | %100 |
| 102 | M96 | Z | -.188 | -.188 | 0 | %100 |
| 103 | M97 | X | 0 | 0 | 0 | %100 |
| 104 | M97 | Z | -.188 | -.188 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 39 | MP1C | X | .267 | .267 | 0 % 100 |
| 40 | MP1C | Z | -.462 | -.462 | 0 % 100 |
| 41 | MP2C | X | .267 | .267 | 0 % 100 |
| 42 | MP2C | Z | -.462 | -.462 | 0 % 100 |
| 43 | MP3C | X | .267 | .267 | 0 % 100 |
| 44 | MP3C | Z | -.462 | -.462 | 0 % 100 |
| 45 | MP4C | X | .267 | .267 | 0 % 100 |
| 46 | MP4C | Z | -.462 | -.462 | 0 % 100 |
| 47 | MP5C | X | .267 | .267 | 0 % 100 |
| 48 | MP5C | Z | -.462 | -.462 | 0 % 100 |
| 49 | M43 | X | .056 | .056 | 0 % 100 |
| 50 | M43 | Z | -.097 | -.097 | 0 % 100 |
| 51 | M44 | X | .056 | .056 | 0 % 100 |
| 52 | M44 | Z | -.097 | -.097 | 0 % 100 |
| 53 | M47 | X | .319 | .319 | 0 % 100 |
| 54 | M47 | Z | -.553 | -.553 | 0 % 100 |
| 55 | M48 | X | .319 | .319 | 0 % 100 |
| 56 | M48 | Z | -.553 | -.553 | 0 % 100 |
| 57 | M49 | X | .321 | .321 | 0 % 100 |
| 58 | M49 | Z | -.555 | -.555 | 0 % 100 |
| 59 | M52 | X | .362 | .362 | 0 % 100 |
| 60 | M52 | Z | -.627 | -.627 | 0 % 100 |
| 61 | M53 | X | 0 | 0 | 0 % 100 |
| 62 | M53 | Z | 0 | 0 | 0 % 100 |
| 63 | MP1B | X | .267 | .267 | 0 % 100 |
| 64 | MP1B | Z | -.462 | -.462 | 0 % 100 |
| 65 | MP2B | X | .267 | .267 | 0 % 100 |
| 66 | MP2B | Z | -.462 | -.462 | 0 % 100 |
| 67 | MP3B | X | .267 | .267 | 0 % 100 |
| 68 | MP3B | Z | -.462 | -.462 | 0 % 100 |
| 69 | MP4B | X | .267 | .267 | 0 % 100 |
| 70 | MP4B | Z | -.462 | -.462 | 0 % 100 |
| 71 | MP5B | X | .267 | .267 | 0 % 100 |
| 72 | MP5B | Z | -.462 | -.462 | 0 % 100 |
| 73 | M64 | X | .428 | .428 | 0 % 100 |
| 74 | M64 | Z | -.741 | -.741 | 0 % 100 |
| 75 | M65 | X | 0 | 0 | 0 % 100 |
| 76 | M65 | Z | 0 | 0 | 0 % 100 |
| 77 | M66 | X | 0 | 0 | 0 % 100 |
| 78 | M66 | Z | 0 | 0 | 0 % 100 |
| 79 | M67 | X | .428 | .428 | 0 % 100 |
| 80 | M67 | Z | -.741 | -.741 | 0 % 100 |
| 81 | M68 | X | .428 | .428 | 0 % 100 |
| 82 | M68 | Z | -.741 | -.741 | 0 % 100 |
| 83 | M69 | X | .428 | .428 | 0 % 100 |
| 84 | M69 | Z | -.741 | -.741 | 0 % 100 |
| 85 | M73A | X | .242 | .242 | 0 % 100 |
| 86 | M73A | Z | -.419 | -.419 | 0 % 100 |
| 87 | M79 | X | .013 | .013 | 0 % 100 |
| 88 | M79 | Z | -.022 | -.022 | 0 % 100 |
| 89 | M80 | X | .384 | .384 | 0 % 100 |
| 90 | M80 | Z | -.664 | -.664 | 0 % 100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in,%] | End Location[in,%] |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 77 | M66 | X | .247 | .247 | 0 | %100 |
| 78 | M66 | Z | -.143 | -.143 | 0 | %100 |
| 79 | M67 | X | .247 | .247 | 0 | %100 |
| 80 | M67 | Z | -.143 | -.143 | 0 | %100 |
| 81 | M68 | X | .247 | .247 | 0 | %100 |
| 82 | M68 | Z | -.143 | -.143 | 0 | %100 |
| 83 | M69 | X | .988 | .988 | 0 | %100 |
| 84 | M69 | Z | -.571 | -.571 | 0 | %100 |
| 85 | M73A | X | .14 | .14 | 0 | %100 |
| 86 | M73A | Z | -.081 | -.081 | 0 | %100 |
| 87 | M79 | X | .163 | .163 | 0 | %100 |
| 88 | M79 | Z | -.094 | -.094 | 0 | %100 |
| 89 | M80 | X | .805 | .805 | 0 | %100 |
| 90 | M80 | Z | -.465 | -.465 | 0 | %100 |
| 91 | M81 | X | .559 | .559 | 0 | %100 |
| 92 | M81 | Z | -.323 | -.323 | 0 | %100 |
| 93 | M89 | X | .14 | .14 | 0 | %100 |
| 94 | M89 | Z | -.081 | -.081 | 0 | %100 |
| 95 | M104 | X | .091 | .091 | 0 | %100 |
| 96 | M104 | Z | -.052 | -.052 | 0 | %100 |
| 97 | M105 | X | .128 | .128 | 0 | %100 |
| 98 | M105 | Z | -.074 | -.074 | 0 | %100 |
| 99 | M95 | X | .273 | .273 | 0 | %100 |
| 100 | M95 | Z | -.157 | -.157 | 0 | %100 |
| 101 | M96 | X | .273 | .273 | 0 | %100 |
| 102 | M96 | Z | -.157 | -.157 | 0 | %100 |
| 103 | M97 | X | .805 | .805 | 0 | %100 |
| 104 | M97 | Z | -.465 | -.465 | 0 | %100 |
| 105 | M98 | X | .163 | .163 | 0 | %100 |
| 106 | M98 | Z | -.094 | -.094 | 0 | %100 |
| 107 | M90A | X | .563 | .563 | 0 | %100 |
| 108 | M90A | Z | -.325 | -.325 | 0 | %100 |
| 109 | M91A | X | .041 | .041 | 0 | %100 |
| 110 | M91A | Z | -.024 | -.024 | 0 | %100 |
| 111 | M92A | X | .299 | .299 | 0 | %100 |
| 112 | M92A | Z | -.173 | -.173 | 0 | %100 |
| 113 | M93A | X | .091 | .091 | 0 | %100 |
| 114 | M93A | Z | -.052 | -.052 | 0 | %100 |

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in,%] | End Location[in,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 1 | M1 | X | .112 | .112 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M2 | X | .112 | .112 | 0 | %100 |
| 4 | M2 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | .638 | .638 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M6 | X | .638 | .638 | 0 | %100 |
| 8 | M6 | Z | 0 | 0 | 0 | %100 |
| 9 | M8 | X | .641 | .641 | 0 | %100 |
| 10 | M8 | Z | 0 | 0 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 11 | M10A | X | .724 | .724 | 0 %100 |
| 12 | M10A | Z | 0 | 0 | 0 %100 |
| 13 | FACE | X | 0 | 0 | 0 %100 |
| 14 | FACE | Z | 0 | 0 | 0 %100 |
| 15 | MP1A | X | .533 | .533 | 0 %100 |
| 16 | MP1A | Z | 0 | 0 | 0 %100 |
| 17 | MP2A | X | .533 | .533 | 0 %100 |
| 18 | MP2A | Z | 0 | 0 | 0 %100 |
| 19 | MP3A | X | .533 | .533 | 0 %100 |
| 20 | MP3A | Z | 0 | 0 | 0 %100 |
| 21 | MP4A | X | .533 | .533 | 0 %100 |
| 22 | MP4A | Z | 0 | 0 | 0 %100 |
| 23 | MP5A | X | .533 | .533 | 0 %100 |
| 24 | MP5A | Z | 0 | 0 | 0 %100 |
| 25 | M22 | X | .028 | .028 | 0 %100 |
| 26 | M22 | Z | 0 | 0 | 0 %100 |
| 27 | M23 | X | .028 | .028 | 0 %100 |
| 28 | M23 | Z | 0 | 0 | 0 %100 |
| 29 | M26 | X | .16 | .16 | 0 %100 |
| 30 | M26 | Z | 0 | 0 | 0 %100 |
| 31 | M27 | X | .16 | .16 | 0 %100 |
| 32 | M27 | Z | 0 | 0 | 0 %100 |
| 33 | M28 | X | .641 | .641 | 0 %100 |
| 34 | M28 | Z | 0 | 0 | 0 %100 |
| 35 | M31 | X | .181 | .181 | 0 %100 |
| 36 | M31 | Z | 0 | 0 | 0 %100 |
| 37 | M32 | X | .586 | .586 | 0 %100 |
| 38 | M32 | Z | 0 | 0 | 0 %100 |
| 39 | MP1C | X | .533 | .533 | 0 %100 |
| 40 | MP1C | Z | 0 | 0 | 0 %100 |
| 41 | MP2C | X | .533 | .533 | 0 %100 |
| 42 | MP2C | Z | 0 | 0 | 0 %100 |
| 43 | MP3C | X | .533 | .533 | 0 %100 |
| 44 | MP3C | Z | 0 | 0 | 0 %100 |
| 45 | MP4C | X | .533 | .533 | 0 %100 |
| 46 | MP4C | Z | 0 | 0 | 0 %100 |
| 47 | MP5C | X | .533 | .533 | 0 %100 |
| 48 | MP5C | Z | 0 | 0 | 0 %100 |
| 49 | M43 | X | .028 | .028 | 0 %100 |
| 50 | M43 | Z | 0 | 0 | 0 %100 |
| 51 | M44 | X | .028 | .028 | 0 %100 |
| 52 | M44 | Z | 0 | 0 | 0 %100 |
| 53 | M47 | X | .16 | .16 | 0 %100 |
| 54 | M47 | Z | 0 | 0 | 0 %100 |
| 55 | M48 | X | .16 | .16 | 0 %100 |
| 56 | M48 | Z | 0 | 0 | 0 %100 |
| 57 | M49 | X | .641 | .641 | 0 %100 |
| 58 | M49 | Z | 0 | 0 | 0 %100 |
| 59 | M52 | X | .181 | .181 | 0 %100 |
| 60 | M52 | Z | 0 | 0 | 0 %100 |
| 61 | M53 | X | .586 | .586 | 0 %100 |
| 62 | M53 | Z | 0 | 0 | 0 %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 63 | MP1B | X | .533 | .533 | 0 %100 |
| 64 | MP1B | Z | 0 | 0 | 0 %100 |
| 65 | MP2B | X | .533 | .533 | 0 %100 |
| 66 | MP2B | Z | 0 | 0 | 0 %100 |
| 67 | MP3B | X | .533 | .533 | 0 %100 |
| 68 | MP3B | Z | 0 | 0 | 0 %100 |
| 69 | MP4B | X | .533 | .533 | 0 %100 |
| 70 | MP4B | Z | 0 | 0 | 0 %100 |
| 71 | MP5B | X | .533 | .533 | 0 %100 |
| 72 | MP5B | Z | 0 | 0 | 0 %100 |
| 73 | M64 | X | .856 | .856 | 0 %100 |
| 74 | M64 | Z | 0 | 0 | 0 %100 |
| 75 | M65 | X | .856 | .856 | 0 %100 |
| 76 | M65 | Z | 0 | 0 | 0 %100 |
| 77 | M66 | X | .856 | .856 | 0 %100 |
| 78 | M66 | Z | 0 | 0 | 0 %100 |
| 79 | M67 | X | 0 | 0 | 0 %100 |
| 80 | M67 | Z | 0 | 0 | 0 %100 |
| 81 | M68 | X | 0 | 0 | 0 %100 |
| 82 | M68 | Z | 0 | 0 | 0 %100 |
| 83 | M69 | X | .856 | .856 | 0 %100 |
| 84 | M69 | Z | 0 | 0 | 0 %100 |
| 85 | M73A | X | 0 | 0 | 0 %100 |
| 86 | M73A | Z | 0 | 0 | 0 %100 |
| 87 | M79 | X | .64 | .64 | 0 %100 |
| 88 | M79 | Z | 0 | 0 | 0 %100 |
| 89 | M80 | X | .64 | .64 | 0 %100 |
| 90 | M80 | Z | 0 | 0 | 0 %100 |
| 91 | M81 | X | .484 | .484 | 0 %100 |
| 92 | M81 | Z | 0 | 0 | 0 %100 |
| 93 | M89 | X | .484 | .484 | 0 %100 |
| 94 | M89 | Z | 0 | 0 | 0 %100 |
| 95 | M104 | X | .355 | .355 | 0 %100 |
| 96 | M104 | Z | 0 | 0 | 0 %100 |
| 97 | M105 | X | .001 | .001 | 0 %100 |
| 98 | M105 | Z | 0 | 0 | 0 %100 |
| 99 | M95 | X | .025 | .025 | 0 %100 |
| 100 | M95 | Z | 0 | 0 | 0 %100 |
| 101 | M96 | X | .767 | .767 | 0 %100 |
| 102 | M96 | Z | 0 | 0 | 0 %100 |
| 103 | M97 | X | .767 | .767 | 0 %100 |
| 104 | M97 | Z | 0 | 0 | 0 %100 |
| 105 | M98 | X | .025 | .025 | 0 %100 |
| 106 | M98 | Z | 0 | 0 | 0 %100 |
| 107 | M90A | X | .648 | .648 | 0 %100 |
| 108 | M90A | Z | 0 | 0 | 0 %100 |
| 109 | M91A | X | .35 | .35 | 0 %100 |
| 110 | M91A | Z | 0 | 0 | 0 %100 |
| 111 | M92A | X | .046 | .046 | 0 %100 |
| 112 | M92A | Z | 0 | 0 | 0 %100 |
| 113 | M93A | X | .355 | .355 | 0 %100 |
| 114 | M93A | Z | 0 | 0 | 0 %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in,%] | End Location[in,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 1 | M1 | X | .073 | .073 | 0 | %100 |
| 2 | M1 | Z | .042 | .042 | 0 | %100 |
| 3 | M2 | X | .073 | .073 | 0 | %100 |
| 4 | M2 | Z | .042 | .042 | 0 | %100 |
| 5 | M5 | X | .414 | .414 | 0 | %100 |
| 6 | M5 | Z | .239 | .239 | 0 | %100 |
| 7 | M6 | X | .414 | .414 | 0 | %100 |
| 8 | M6 | Z | .239 | .239 | 0 | %100 |
| 9 | M8 | X | .555 | .555 | 0 | %100 |
| 10 | M8 | Z | .321 | .321 | 0 | %100 |
| 11 | M10A | X | .47 | .47 | 0 | %100 |
| 12 | M10A | Z | .272 | .272 | 0 | %100 |
| 13 | FACE | X | .169 | .169 | 0 | %100 |
| 14 | FACE | Z | .098 | .098 | 0 | %100 |
| 15 | MP1A | X | .462 | .462 | 0 | %100 |
| 16 | MP1A | Z | .267 | .267 | 0 | %100 |
| 17 | MP2A | X | .462 | .462 | 0 | %100 |
| 18 | MP2A | Z | .267 | .267 | 0 | %100 |
| 19 | MP3A | X | .462 | .462 | 0 | %100 |
| 20 | MP3A | Z | .267 | .267 | 0 | %100 |
| 21 | MP4A | X | .462 | .462 | 0 | %100 |
| 22 | MP4A | Z | .267 | .267 | 0 | %100 |
| 23 | MP5A | X | .462 | .462 | 0 | %100 |
| 24 | MP5A | Z | .267 | .267 | 0 | %100 |
| 25 | M22 | X | .073 | .073 | 0 | %100 |
| 26 | M22 | Z | .042 | .042 | 0 | %100 |
| 27 | M23 | X | .073 | .073 | 0 | %100 |
| 28 | M23 | Z | .042 | .042 | 0 | %100 |
| 29 | M26 | X | .414 | .414 | 0 | %100 |
| 30 | M26 | Z | .239 | .239 | 0 | %100 |
| 31 | M27 | X | .414 | .414 | 0 | %100 |
| 32 | M27 | Z | .239 | .239 | 0 | %100 |
| 33 | M28 | X | .555 | .555 | 0 | %100 |
| 34 | M28 | Z | .321 | .321 | 0 | %100 |
| 35 | M31 | X | .47 | .47 | 0 | %100 |
| 36 | M31 | Z | .272 | .272 | 0 | %100 |
| 37 | M32 | X | .169 | .169 | 0 | %100 |
| 38 | M32 | Z | .098 | .098 | 0 | %100 |
| 39 | MP1C | X | .462 | .462 | 0 | %100 |
| 40 | MP1C | Z | .267 | .267 | 0 | %100 |
| 41 | MP2C | X | .462 | .462 | 0 | %100 |
| 42 | MP2C | Z | .267 | .267 | 0 | %100 |
| 43 | MP3C | X | .462 | .462 | 0 | %100 |
| 44 | MP3C | Z | .267 | .267 | 0 | %100 |
| 45 | MP4C | X | .462 | .462 | 0 | %100 |
| 46 | MP4C | Z | .267 | .267 | 0 | %100 |
| 47 | MP5C | X | .462 | .462 | 0 | %100 |
| 48 | MP5C | Z | .267 | .267 | 0 | %100 |
| 49 | M43 | X | 0 | 0 | 0 | %100 |
| 50 | M43 | Z | 0 | 0 | 0 | %100 |
| 51 | M44 | X | 0 | 0 | 0 | %100 |
| 52 | M44 | Z | 0 | 0 | 0 | %100 |



Company : Maser Consulting
Designer :
Job Number :
Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
2:42 PM
Checked By: _____

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 53 | M47 | X | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | 0 | 0 | 0 | %100 |
| 55 | M48 | X | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | 0 | 0 | 0 | %100 |
| 57 | M49 | X | .555 | .555 | 0 | %100 |
| 58 | M49 | Z | .321 | .321 | 0 | %100 |
| 59 | M52 | X | 0 | 0 | 0 | %100 |
| 60 | M52 | Z | 0 | 0 | 0 | %100 |
| 61 | M53 | X | .676 | .676 | 0 | %100 |
| 62 | M53 | Z | .391 | .391 | 0 | %100 |
| 63 | MP1B | X | .462 | .462 | 0 | %100 |
| 64 | MP1B | Z | .267 | .267 | 0 | %100 |
| 65 | MP2B | X | .462 | .462 | 0 | %100 |
| 66 | MP2B | Z | .267 | .267 | 0 | %100 |
| 67 | MP3B | X | .462 | .462 | 0 | %100 |
| 68 | MP3B | Z | .267 | .267 | 0 | %100 |
| 69 | MP4B | X | .462 | .462 | 0 | %100 |
| 70 | MP4B | Z | .267 | .267 | 0 | %100 |
| 71 | MP5B | X | .462 | .462 | 0 | %100 |
| 72 | MP5B | Z | .267 | .267 | 0 | %100 |
| 73 | M64 | X | .247 | .247 | 0 | %100 |
| 74 | M64 | Z | .143 | .143 | 0 | %100 |
| 75 | M65 | X | .988 | .988 | 0 | %100 |
| 76 | M65 | Z | .571 | .571 | 0 | %100 |
| 77 | M66 | X | .988 | .988 | 0 | %100 |
| 78 | M66 | Z | .571 | .571 | 0 | %100 |
| 79 | M67 | X | .247 | .247 | 0 | %100 |
| 80 | M67 | Z | .143 | .143 | 0 | %100 |
| 81 | M68 | X | .247 | .247 | 0 | %100 |
| 82 | M68 | Z | .143 | .143 | 0 | %100 |
| 83 | M69 | X | .247 | .247 | 0 | %100 |
| 84 | M69 | Z | .143 | .143 | 0 | %100 |
| 85 | M73A | X | .14 | .14 | 0 | %100 |
| 86 | M73A | Z | .081 | .081 | 0 | %100 |
| 87 | M79 | X | .805 | .805 | 0 | %100 |
| 88 | M79 | Z | .465 | .465 | 0 | %100 |
| 89 | M80 | X | .163 | .163 | 0 | %100 |
| 90 | M80 | Z | .094 | .094 | 0 | %100 |
| 91 | M81 | X | .14 | .14 | 0 | %100 |
| 92 | M81 | Z | .081 | .081 | 0 | %100 |
| 93 | M89 | X | .559 | .559 | 0 | %100 |
| 94 | M89 | Z | .323 | .323 | 0 | %100 |
| 95 | M104 | X | .434 | .434 | 0 | %100 |
| 96 | M104 | Z | .251 | .251 | 0 | %100 |
| 97 | M105 | X | .091 | .091 | 0 | %100 |
| 98 | M105 | Z | .052 | .052 | 0 | %100 |
| 99 | M95 | X | .163 | .163 | 0 | %100 |
| 100 | M95 | Z | .094 | .094 | 0 | %100 |
| 101 | M96 | X | .805 | .805 | 0 | %100 |
| 102 | M96 | Z | .465 | .465 | 0 | %100 |
| 103 | M97 | X | .273 | .273 | 0 | %100 |
| 104 | M97 | Z | .157 | .157 | 0 | %100 |



Member Distributed Loads (BLC 69 : Structure Wm (120 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 105 | M98 | X | .273 | .273 | 0 | % 100 |
| 106 | M98 | Z | .157 | .157 | 0 | % 100 |
| 107 | M90A | X | .299 | .299 | 0 | % 100 |
| 108 | M90A | Z | .173 | .173 | 0 | % 100 |
| 109 | M91A | X | .563 | .563 | 0 | % 100 |
| 110 | M91A | Z | .325 | .325 | 0 | % 100 |
| 111 | M92A | X | .041 | .041 | 0 | % 100 |
| 112 | M92A | Z | .024 | .024 | 0 | % 100 |
| 113 | M93A | X | .434 | .434 | 0 | % 100 |
| 114 | M93A | Z | .251 | .251 | 0 | % 100 |

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | .014 | .014 | 0 | % 100 |
| 2 | M1 | Z | .024 | .024 | 0 | % 100 |
| 3 | M2 | X | .014 | .014 | 0 | % 100 |
| 4 | M2 | Z | .024 | .024 | 0 | % 100 |
| 5 | M5 | X | .08 | .08 | 0 | % 100 |
| 6 | M5 | Z | .138 | .138 | 0 | % 100 |
| 7 | M6 | X | .08 | .08 | 0 | % 100 |
| 8 | M6 | Z | .138 | .138 | 0 | % 100 |
| 9 | M8 | X | .321 | .321 | 0 | % 100 |
| 10 | M8 | Z | .555 | .555 | 0 | % 100 |
| 11 | M10A | X | .091 | .091 | 0 | % 100 |
| 12 | M10A | Z | .157 | .157 | 0 | % 100 |
| 13 | FACE | X | .293 | .293 | 0 | % 100 |
| 14 | FACE | Z | .507 | .507 | 0 | % 100 |
| 15 | MP1A | X | .267 | .267 | 0 | % 100 |
| 16 | MP1A | Z | .462 | .462 | 0 | % 100 |
| 17 | MP2A | X | .267 | .267 | 0 | % 100 |
| 18 | MP2A | Z | .462 | .462 | 0 | % 100 |
| 19 | MP3A | X | .267 | .267 | 0 | % 100 |
| 20 | MP3A | Z | .462 | .462 | 0 | % 100 |
| 21 | MP4A | X | .267 | .267 | 0 | % 100 |
| 22 | MP4A | Z | .462 | .462 | 0 | % 100 |
| 23 | MP5A | X | .267 | .267 | 0 | % 100 |
| 24 | MP5A | Z | .462 | .462 | 0 | % 100 |
| 25 | M22 | X | .056 | .056 | 0 | % 100 |
| 26 | M22 | Z | .097 | .097 | 0 | % 100 |
| 27 | M23 | X | .056 | .056 | 0 | % 100 |
| 28 | M23 | Z | .097 | .097 | 0 | % 100 |
| 29 | M26 | X | .319 | .319 | 0 | % 100 |
| 30 | M26 | Z | .553 | .553 | 0 | % 100 |
| 31 | M27 | X | .319 | .319 | 0 | % 100 |
| 32 | M27 | Z | .553 | .553 | 0 | % 100 |
| 33 | M28 | X | .321 | .321 | 0 | % 100 |
| 34 | M28 | Z | .555 | .555 | 0 | % 100 |
| 35 | M31 | X | .362 | .362 | 0 | % 100 |
| 36 | M31 | Z | .627 | .627 | 0 | % 100 |
| 37 | M32 | X | 0 | 0 | 0 | % 100 |
| 38 | M32 | Z | 0 | 0 | 0 | % 100 |



Member Distributed Loads (BLC 70 : Structure Wm (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 91 | M81 | X | 0 | 0 | 0 | % 100 |
| 92 | M81 | Z | 0 | 0 | 0 | % 100 |
| 93 | M89 | X | .242 | .242 | 0 | % 100 |
| 94 | M89 | Z | .419 | .419 | 0 | % 100 |
| 95 | M104 | X | .199 | .199 | 0 | % 100 |
| 96 | M104 | Z | .345 | .345 | 0 | % 100 |
| 97 | M105 | X | .177 | .177 | 0 | % 100 |
| 98 | M105 | Z | .307 | .307 | 0 | % 100 |
| 99 | M95 | X | .32 | .32 | 0 | % 100 |
| 100 | M95 | Z | .554 | .554 | 0 | % 100 |
| 101 | M96 | X | .32 | .32 | 0 | % 100 |
| 102 | M96 | Z | .554 | .554 | 0 | % 100 |
| 103 | M97 | X | .013 | .013 | 0 | % 100 |
| 104 | M97 | Z | .022 | .022 | 0 | % 100 |
| 105 | M98 | X | .384 | .384 | 0 | % 100 |
| 106 | M98 | Z | .664 | .664 | 0 | % 100 |
| 107 | M90A | X | .023 | .023 | 0 | % 100 |
| 108 | M90A | Z | .04 | .04 | 0 | % 100 |
| 109 | M91A | X | .324 | .324 | 0 | % 100 |
| 110 | M91A | Z | .561 | .561 | 0 | % 100 |
| 111 | M92A | X | .175 | .175 | 0 | % 100 |
| 112 | M92A | Z | .303 | .303 | 0 | % 100 |
| 113 | M93A | X | .199 | .199 | 0 | % 100 |
| 114 | M93A | Z | .345 | .345 | 0 | % 100 |

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | 0 | 0 | 0 | % 100 |
| 2 | M1 | Z | 0 | 0 | 0 | % 100 |
| 3 | M2 | X | 0 | 0 | 0 | % 100 |
| 4 | M2 | Z | 0 | 0 | 0 | % 100 |
| 5 | M5 | X | 0 | 0 | 0 | % 100 |
| 6 | M5 | Z | 0 | 0 | 0 | % 100 |
| 7 | M6 | X | 0 | 0 | 0 | % 100 |
| 8 | M6 | Z | 0 | 0 | 0 | % 100 |
| 9 | M8 | X | 0 | 0 | 0 | % 100 |
| 10 | M8 | Z | .641 | .641 | 0 | % 100 |
| 11 | M10A | X | 0 | 0 | 0 | % 100 |
| 12 | M10A | Z | 0 | 0 | 0 | % 100 |
| 13 | FACE | X | 0 | 0 | 0 | % 100 |
| 14 | FACE | Z | .781 | .781 | 0 | % 100 |
| 15 | MP1A | X | 0 | 0 | 0 | % 100 |
| 16 | MP1A | Z | .533 | .533 | 0 | % 100 |
| 17 | MP2A | X | 0 | 0 | 0 | % 100 |
| 18 | MP2A | Z | .533 | .533 | 0 | % 100 |
| 19 | MP3A | X | 0 | 0 | 0 | % 100 |
| 20 | MP3A | Z | .533 | .533 | 0 | % 100 |
| 21 | MP4A | X | 0 | 0 | 0 | % 100 |
| 22 | MP4A | Z | .533 | .533 | 0 | % 100 |
| 23 | MP5A | X | 0 | 0 | 0 | % 100 |
| 24 | MP5A | Z | .533 | .533 | 0 | % 100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 25 | M22 | X | 0 | 0 | 0 | %100 |
| 26 | M22 | Z | .084 | .084 | 0 | %100 |
| 27 | M23 | X | 0 | 0 | 0 | %100 |
| 28 | M23 | Z | .084 | .084 | 0 | %100 |
| 29 | M26 | X | 0 | 0 | 0 | %100 |
| 30 | M26 | Z | .479 | .479 | 0 | %100 |
| 31 | M27 | X | 0 | 0 | 0 | %100 |
| 32 | M27 | Z | .479 | .479 | 0 | %100 |
| 33 | M28 | X | 0 | 0 | 0 | %100 |
| 34 | M28 | Z | .641 | .641 | 0 | %100 |
| 35 | M31 | X | 0 | 0 | 0 | %100 |
| 36 | M31 | Z | .543 | .543 | 0 | %100 |
| 37 | M32 | X | 0 | 0 | 0 | %100 |
| 38 | M32 | Z | .195 | .195 | 0 | %100 |
| 39 | MP1C | X | 0 | 0 | 0 | %100 |
| 40 | MP1C | Z | .533 | .533 | 0 | %100 |
| 41 | MP2C | X | 0 | 0 | 0 | %100 |
| 42 | MP2C | Z | .533 | .533 | 0 | %100 |
| 43 | MP3C | X | 0 | 0 | 0 | %100 |
| 44 | MP3C | Z | .533 | .533 | 0 | %100 |
| 45 | MP4C | X | 0 | 0 | 0 | %100 |
| 46 | MP4C | Z | .533 | .533 | 0 | %100 |
| 47 | MP5C | X | 0 | 0 | 0 | %100 |
| 48 | MP5C | Z | .533 | .533 | 0 | %100 |
| 49 | M43 | X | 0 | 0 | 0 | %100 |
| 50 | M43 | Z | .084 | .084 | 0 | %100 |
| 51 | M44 | X | 0 | 0 | 0 | %100 |
| 52 | M44 | Z | .084 | .084 | 0 | %100 |
| 53 | M47 | X | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | .479 | .479 | 0 | %100 |
| 55 | M48 | X | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | .479 | .479 | 0 | %100 |
| 57 | M49 | X | 0 | 0 | 0 | %100 |
| 58 | M49 | Z | .641 | .641 | 0 | %100 |
| 59 | M52 | X | 0 | 0 | 0 | %100 |
| 60 | M52 | Z | .543 | .543 | 0 | %100 |
| 61 | M53 | X | 0 | 0 | 0 | %100 |
| 62 | M53 | Z | .195 | .195 | 0 | %100 |
| 63 | MP1B | X | 0 | 0 | 0 | %100 |
| 64 | MP1B | Z | .533 | .533 | 0 | %100 |
| 65 | MP2B | X | 0 | 0 | 0 | %100 |
| 66 | MP2B | Z | .533 | .533 | 0 | %100 |
| 67 | MP3B | X | 0 | 0 | 0 | %100 |
| 68 | MP3B | Z | .533 | .533 | 0 | %100 |
| 69 | MP4B | X | 0 | 0 | 0 | %100 |
| 70 | MP4B | Z | .533 | .533 | 0 | %100 |
| 71 | MP5B | X | 0 | 0 | 0 | %100 |
| 72 | MP5B | Z | .533 | .533 | 0 | %100 |
| 73 | M64 | X | 0 | 0 | 0 | %100 |
| 74 | M64 | Z | .285 | .285 | 0 | %100 |
| 75 | M65 | X | 0 | 0 | 0 | %100 |
| 76 | M65 | Z | .285 | .285 | 0 | %100 |



Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in,%] | End Location[in,%] |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 77 | M66 | X | 0 | 0 | 0 | %100 |
| 78 | M66 | Z | .285 | .285 | 0 | %100 |
| 79 | M67 | X | 0 | 0 | 0 | %100 |
| 80 | M67 | Z | 1.141 | 1.141 | 0 | %100 |
| 81 | M68 | X | 0 | 0 | 0 | %100 |
| 82 | M68 | Z | 1.141 | 1.141 | 0 | %100 |
| 83 | M69 | X | 0 | 0 | 0 | %100 |
| 84 | M69 | Z | .285 | .285 | 0 | %100 |
| 85 | M73A | X | 0 | 0 | 0 | %100 |
| 86 | M73A | Z | .645 | .645 | 0 | %100 |
| 87 | M79 | X | 0 | 0 | 0 | %100 |
| 88 | M79 | Z | .315 | .315 | 0 | %100 |
| 89 | M80 | X | 0 | 0 | 0 | %100 |
| 90 | M80 | Z | .315 | .315 | 0 | %100 |
| 91 | M81 | X | 0 | 0 | 0 | %100 |
| 92 | M81 | Z | .161 | .161 | 0 | %100 |
| 93 | M89 | X | 0 | 0 | 0 | %100 |
| 94 | M89 | Z | .161 | .161 | 0 | %100 |
| 95 | M104 | X | 0 | 0 | 0 | %100 |
| 96 | M104 | Z | .148 | .148 | 0 | %100 |
| 97 | M105 | X | 0 | 0 | 0 | %100 |
| 98 | M105 | Z | .501 | .501 | 0 | %100 |
| 99 | M95 | X | 0 | 0 | 0 | %100 |
| 100 | M95 | Z | .929 | .929 | 0 | %100 |
| 101 | M96 | X | 0 | 0 | 0 | %100 |
| 102 | M96 | Z | .188 | .188 | 0 | %100 |
| 103 | M97 | X | 0 | 0 | 0 | %100 |
| 104 | M97 | Z | .188 | .188 | 0 | %100 |
| 105 | M98 | X | 0 | 0 | 0 | %100 |
| 106 | M98 | Z | .929 | .929 | 0 | %100 |
| 107 | M90A | X | 0 | 0 | 0 | %100 |
| 108 | M90A | Z | .048 | .048 | 0 | %100 |
| 109 | M91A | X | 0 | 0 | 0 | %100 |
| 110 | M91A | Z | .346 | .346 | 0 | %100 |
| 111 | M92A | X | 0 | 0 | 0 | %100 |
| 112 | M92A | Z | .65 | .65 | 0 | %100 |
| 113 | M93A | X | 0 | 0 | 0 | %100 |
| 114 | M93A | Z | .148 | .148 | 0 | %100 |

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in,%] | End Location[in,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 1 | M1 | X | -.014 | -.014 | 0 | %100 |
| 2 | M1 | Z | .024 | .024 | 0 | %100 |
| 3 | M2 | X | -.014 | -.014 | 0 | %100 |
| 4 | M2 | Z | .024 | .024 | 0 | %100 |
| 5 | M5 | X | -.08 | -.08 | 0 | %100 |
| 6 | M5 | Z | .138 | .138 | 0 | %100 |
| 7 | M6 | X | -.08 | -.08 | 0 | %100 |
| 8 | M6 | Z | .138 | .138 | 0 | %100 |
| 9 | M8 | X | -.321 | -.321 | 0 | %100 |
| 10 | M8 | Z | .555 | .555 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 11 | M10A | X | -.091 | -.091 | 0 | % 100 |
| 12 | M10A | Z | .157 | .157 | 0 | % 100 |
| 13 | FACE | X | -.293 | -.293 | 0 | % 100 |
| 14 | FACE | Z | .507 | .507 | 0 | % 100 |
| 15 | MP1A | X | -.267 | -.267 | 0 | % 100 |
| 16 | MP1A | Z | .462 | .462 | 0 | % 100 |
| 17 | MP2A | X | -.267 | -.267 | 0 | % 100 |
| 18 | MP2A | Z | .462 | .462 | 0 | % 100 |
| 19 | MP3A | X | -.267 | -.267 | 0 | % 100 |
| 20 | MP3A | Z | .462 | .462 | 0 | % 100 |
| 21 | MP4A | X | -.267 | -.267 | 0 | % 100 |
| 22 | MP4A | Z | .462 | .462 | 0 | % 100 |
| 23 | MP5A | X | -.267 | -.267 | 0 | % 100 |
| 24 | MP5A | Z | .462 | .462 | 0 | % 100 |
| 25 | M22 | X | -.014 | -.014 | 0 | % 100 |
| 26 | M22 | Z | .024 | .024 | 0 | % 100 |
| 27 | M23 | X | -.014 | -.014 | 0 | % 100 |
| 28 | M23 | Z | .024 | .024 | 0 | % 100 |
| 29 | M26 | X | -.08 | -.08 | 0 | % 100 |
| 30 | M26 | Z | .138 | .138 | 0 | % 100 |
| 31 | M27 | X | -.08 | -.08 | 0 | % 100 |
| 32 | M27 | Z | .138 | .138 | 0 | % 100 |
| 33 | M28 | X | -.321 | -.321 | 0 | % 100 |
| 34 | M28 | Z | .555 | .555 | 0 | % 100 |
| 35 | M31 | X | -.091 | -.091 | 0 | % 100 |
| 36 | M31 | Z | .157 | .157 | 0 | % 100 |
| 37 | M32 | X | -.293 | -.293 | 0 | % 100 |
| 38 | M32 | Z | .507 | .507 | 0 | % 100 |
| 39 | MP1C | X | -.267 | -.267 | 0 | % 100 |
| 40 | MP1C | Z | .462 | .462 | 0 | % 100 |
| 41 | MP2C | X | -.267 | -.267 | 0 | % 100 |
| 42 | MP2C | Z | .462 | .462 | 0 | % 100 |
| 43 | MP3C | X | -.267 | -.267 | 0 | % 100 |
| 44 | MP3C | Z | .462 | .462 | 0 | % 100 |
| 45 | MP4C | X | -.267 | -.267 | 0 | % 100 |
| 46 | MP4C | Z | .462 | .462 | 0 | % 100 |
| 47 | MP5C | X | -.267 | -.267 | 0 | % 100 |
| 48 | MP5C | Z | .462 | .462 | 0 | % 100 |
| 49 | M43 | X | -.056 | -.056 | 0 | % 100 |
| 50 | M43 | Z | .097 | .097 | 0 | % 100 |
| 51 | M44 | X | -.056 | -.056 | 0 | % 100 |
| 52 | M44 | Z | .097 | .097 | 0 | % 100 |
| 53 | M47 | X | -.319 | -.319 | 0 | % 100 |
| 54 | M47 | Z | .553 | .553 | 0 | % 100 |
| 55 | M48 | X | -.319 | -.319 | 0 | % 100 |
| 56 | M48 | Z | .553 | .553 | 0 | % 100 |
| 57 | M49 | X | -.321 | -.321 | 0 | % 100 |
| 58 | M49 | Z | .555 | .555 | 0 | % 100 |
| 59 | M52 | X | -.362 | -.362 | 0 | % 100 |
| 60 | M52 | Z | .627 | .627 | 0 | % 100 |
| 61 | M53 | X | 0 | 0 | 0 | % 100 |
| 62 | M53 | Z | 0 | 0 | 0 | % 100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in,%] | End Location[in,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 1 | M1 | X | -.073 | -.073 | 0 | %100 |
| 2 | M1 | Z | .042 | .042 | 0 | %100 |
| 3 | M2 | X | -.073 | -.073 | 0 | %100 |
| 4 | M2 | Z | .042 | .042 | 0 | %100 |
| 5 | M5 | X | -.414 | -.414 | 0 | %100 |
| 6 | M5 | Z | .239 | .239 | 0 | %100 |
| 7 | M6 | X | -.414 | -.414 | 0 | %100 |
| 8 | M6 | Z | .239 | .239 | 0 | %100 |
| 9 | M8 | X | -.555 | -.555 | 0 | %100 |
| 10 | M8 | Z | .321 | .321 | 0 | %100 |
| 11 | M10A | X | -.47 | -.47 | 0 | %100 |
| 12 | M10A | Z | .272 | .272 | 0 | %100 |
| 13 | FACE | X | -.169 | -.169 | 0 | %100 |
| 14 | FACE | Z | .098 | .098 | 0 | %100 |
| 15 | MP1A | X | -.462 | -.462 | 0 | %100 |
| 16 | MP1A | Z | .267 | .267 | 0 | %100 |
| 17 | MP2A | X | -.462 | -.462 | 0 | %100 |
| 18 | MP2A | Z | .267 | .267 | 0 | %100 |
| 19 | MP3A | X | -.462 | -.462 | 0 | %100 |
| 20 | MP3A | Z | .267 | .267 | 0 | %100 |
| 21 | MP4A | X | -.462 | -.462 | 0 | %100 |
| 22 | MP4A | Z | .267 | .267 | 0 | %100 |
| 23 | MP5A | X | -.462 | -.462 | 0 | %100 |
| 24 | MP5A | Z | .267 | .267 | 0 | %100 |
| 25 | M22 | X | 0 | 0 | 0 | %100 |
| 26 | M22 | Z | 0 | 0 | 0 | %100 |
| 27 | M23 | X | 0 | 0 | 0 | %100 |
| 28 | M23 | Z | 0 | 0 | 0 | %100 |
| 29 | M26 | X | 0 | 0 | 0 | %100 |
| 30 | M26 | Z | 0 | 0 | 0 | %100 |
| 31 | M27 | X | 0 | 0 | 0 | %100 |
| 32 | M27 | Z | 0 | 0 | 0 | %100 |
| 33 | M28 | X | -.555 | -.555 | 0 | %100 |
| 34 | M28 | Z | .321 | .321 | 0 | %100 |
| 35 | M31 | X | 0 | 0 | 0 | %100 |
| 36 | M31 | Z | 0 | 0 | 0 | %100 |
| 37 | M32 | X | -.676 | -.676 | 0 | %100 |
| 38 | M32 | Z | .391 | .391 | 0 | %100 |
| 39 | MP1C | X | -.462 | -.462 | 0 | %100 |
| 40 | MP1C | Z | .267 | .267 | 0 | %100 |
| 41 | MP2C | X | -.462 | -.462 | 0 | %100 |
| 42 | MP2C | Z | .267 | .267 | 0 | %100 |
| 43 | MP3C | X | -.462 | -.462 | 0 | %100 |
| 44 | MP3C | Z | .267 | .267 | 0 | %100 |
| 45 | MP4C | X | -.462 | -.462 | 0 | %100 |
| 46 | MP4C | Z | .267 | .267 | 0 | %100 |
| 47 | MP5C | X | -.462 | -.462 | 0 | %100 |
| 48 | MP5C | Z | .267 | .267 | 0 | %100 |
| 49 | M43 | X | -.073 | -.073 | 0 | %100 |
| 50 | M43 | Z | .042 | .042 | 0 | %100 |
| 51 | M44 | X | -.073 | -.073 | 0 | %100 |
| 52 | M44 | Z | .042 | .042 | 0 | %100 |



Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 53 | M47 | X | -.414 | -.414 | 0 | %100 |
| 54 | M47 | Z | .239 | .239 | 0 | %100 |
| 55 | M48 | X | -.414 | -.414 | 0 | %100 |
| 56 | M48 | Z | .239 | .239 | 0 | %100 |
| 57 | M49 | X | -.555 | -.555 | 0 | %100 |
| 58 | M49 | Z | .321 | .321 | 0 | %100 |
| 59 | M52 | X | -.47 | -.47 | 0 | %100 |
| 60 | M52 | Z | .272 | .272 | 0 | %100 |
| 61 | M53 | X | -.169 | -.169 | 0 | %100 |
| 62 | M53 | Z | .098 | .098 | 0 | %100 |
| 63 | MP1B | X | -.462 | -.462 | 0 | %100 |
| 64 | MP1B | Z | .267 | .267 | 0 | %100 |
| 65 | MP2B | X | -.462 | -.462 | 0 | %100 |
| 66 | MP2B | Z | .267 | .267 | 0 | %100 |
| 67 | MP3B | X | -.462 | -.462 | 0 | %100 |
| 68 | MP3B | Z | .267 | .267 | 0 | %100 |
| 69 | MP4B | X | -.462 | -.462 | 0 | %100 |
| 70 | MP4B | Z | .267 | .267 | 0 | %100 |
| 71 | MP5B | X | -.462 | -.462 | 0 | %100 |
| 72 | MP5B | Z | .267 | .267 | 0 | %100 |
| 73 | M64 | X | -.988 | -.988 | 0 | %100 |
| 74 | M64 | Z | .571 | .571 | 0 | %100 |
| 75 | M65 | X | -.247 | -.247 | 0 | %100 |
| 76 | M65 | Z | .143 | .143 | 0 | %100 |
| 77 | M66 | X | -.247 | -.247 | 0 | %100 |
| 78 | M66 | Z | .143 | .143 | 0 | %100 |
| 79 | M67 | X | -.247 | -.247 | 0 | %100 |
| 80 | M67 | Z | .143 | .143 | 0 | %100 |
| 81 | M68 | X | -.247 | -.247 | 0 | %100 |
| 82 | M68 | Z | .143 | .143 | 0 | %100 |
| 83 | M69 | X | -.988 | -.988 | 0 | %100 |
| 84 | M69 | Z | .571 | .571 | 0 | %100 |
| 85 | M73A | X | -.14 | -.14 | 0 | %100 |
| 86 | M73A | Z | .081 | .081 | 0 | %100 |
| 87 | M79 | X | -.163 | -.163 | 0 | %100 |
| 88 | M79 | Z | .094 | .094 | 0 | %100 |
| 89 | M80 | X | -.805 | -.805 | 0 | %100 |
| 90 | M80 | Z | .465 | .465 | 0 | %100 |
| 91 | M81 | X | -.559 | -.559 | 0 | %100 |
| 92 | M81 | Z | .323 | .323 | 0 | %100 |
| 93 | M89 | X | -.14 | -.14 | 0 | %100 |
| 94 | M89 | Z | .081 | .081 | 0 | %100 |
| 95 | M104 | X | -.091 | -.091 | 0 | %100 |
| 96 | M104 | Z | .052 | .052 | 0 | %100 |
| 97 | M105 | X | -.128 | -.128 | 0 | %100 |
| 98 | M105 | Z | .074 | .074 | 0 | %100 |
| 99 | M95 | X | -.273 | -.273 | 0 | %100 |
| 100 | M95 | Z | .157 | .157 | 0 | %100 |
| 101 | M96 | X | -.273 | -.273 | 0 | %100 |
| 102 | M96 | Z | .157 | .157 | 0 | %100 |
| 103 | M97 | X | -.805 | -.805 | 0 | %100 |
| 104 | M97 | Z | .465 | .465 | 0 | %100 |



Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 105 | M98 | X | -.163 | -.163 | 0 | %100 |
| 106 | M98 | Z | .094 | .094 | 0 | %100 |
| 107 | M90A | X | -.563 | -.563 | 0 | %100 |
| 108 | M90A | Z | .325 | .325 | 0 | %100 |
| 109 | M91A | X | -.041 | -.041 | 0 | %100 |
| 110 | M91A | Z | .024 | .024 | 0 | %100 |
| 111 | M92A | X | -.299 | -.299 | 0 | %100 |
| 112 | M92A | Z | .173 | .173 | 0 | %100 |
| 113 | M93A | X | -.091 | -.091 | 0 | %100 |
| 114 | M93A | Z | .052 | .052 | 0 | %100 |

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | -.112 | -.112 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M2 | X | -.112 | -.112 | 0 | %100 |
| 4 | M2 | Z | 0 | 0 | 0 | %100 |
| 5 | M5 | X | -.638 | -.638 | 0 | %100 |
| 6 | M5 | Z | 0 | 0 | 0 | %100 |
| 7 | M6 | X | -.638 | -.638 | 0 | %100 |
| 8 | M6 | Z | 0 | 0 | 0 | %100 |
| 9 | M8 | X | -.641 | -.641 | 0 | %100 |
| 10 | M8 | Z | 0 | 0 | 0 | %100 |
| 11 | M10A | X | -.724 | -.724 | 0 | %100 |
| 12 | M10A | Z | 0 | 0 | 0 | %100 |
| 13 | FACE | X | 0 | 0 | 0 | %100 |
| 14 | FACE | Z | 0 | 0 | 0 | %100 |
| 15 | MP1A | X | -.533 | -.533 | 0 | %100 |
| 16 | MP1A | Z | 0 | 0 | 0 | %100 |
| 17 | MP2A | X | -.533 | -.533 | 0 | %100 |
| 18 | MP2A | Z | 0 | 0 | 0 | %100 |
| 19 | MP3A | X | -.533 | -.533 | 0 | %100 |
| 20 | MP3A | Z | 0 | 0 | 0 | %100 |
| 21 | MP4A | X | -.533 | -.533 | 0 | %100 |
| 22 | MP4A | Z | 0 | 0 | 0 | %100 |
| 23 | MP5A | X | -.533 | -.533 | 0 | %100 |
| 24 | MP5A | Z | 0 | 0 | 0 | %100 |
| 25 | M22 | X | -.028 | -.028 | 0 | %100 |
| 26 | M22 | Z | 0 | 0 | 0 | %100 |
| 27 | M23 | X | -.028 | -.028 | 0 | %100 |
| 28 | M23 | Z | 0 | 0 | 0 | %100 |
| 29 | M26 | X | -.16 | -.16 | 0 | %100 |
| 30 | M26 | Z | 0 | 0 | 0 | %100 |
| 31 | M27 | X | -.16 | -.16 | 0 | %100 |
| 32 | M27 | Z | 0 | 0 | 0 | %100 |
| 33 | M28 | X | -.641 | -.641 | 0 | %100 |
| 34 | M28 | Z | 0 | 0 | 0 | %100 |
| 35 | M31 | X | -.181 | -.181 | 0 | %100 |
| 36 | M31 | Z | 0 | 0 | 0 | %100 |
| 37 | M32 | X | -.586 | -.586 | 0 | %100 |
| 38 | M32 | Z | 0 | 0 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 39 | MP1C | X | -.533 | -.533 | 0 | %100 |
| 40 | MP1C | Z | 0 | 0 | 0 | %100 |
| 41 | MP2C | X | -.533 | -.533 | 0 | %100 |
| 42 | MP2C | Z | 0 | 0 | 0 | %100 |
| 43 | MP3C | X | -.533 | -.533 | 0 | %100 |
| 44 | MP3C | Z | 0 | 0 | 0 | %100 |
| 45 | MP4C | X | -.533 | -.533 | 0 | %100 |
| 46 | MP4C | Z | 0 | 0 | 0 | %100 |
| 47 | MP5C | X | -.533 | -.533 | 0 | %100 |
| 48 | MP5C | Z | 0 | 0 | 0 | %100 |
| 49 | M43 | X | -.028 | -.028 | 0 | %100 |
| 50 | M43 | Z | 0 | 0 | 0 | %100 |
| 51 | M44 | X | -.028 | -.028 | 0 | %100 |
| 52 | M44 | Z | 0 | 0 | 0 | %100 |
| 53 | M47 | X | -.16 | -.16 | 0 | %100 |
| 54 | M47 | Z | 0 | 0 | 0 | %100 |
| 55 | M48 | X | -.16 | -.16 | 0 | %100 |
| 56 | M48 | Z | 0 | 0 | 0 | %100 |
| 57 | M49 | X | -.641 | -.641 | 0 | %100 |
| 58 | M49 | Z | 0 | 0 | 0 | %100 |
| 59 | M52 | X | -.181 | -.181 | 0 | %100 |
| 60 | M52 | Z | 0 | 0 | 0 | %100 |
| 61 | M53 | X | -.586 | -.586 | 0 | %100 |
| 62 | M53 | Z | 0 | 0 | 0 | %100 |
| 63 | MP1B | X | -.533 | -.533 | 0 | %100 |
| 64 | MP1B | Z | 0 | 0 | 0 | %100 |
| 65 | MP2B | X | -.533 | -.533 | 0 | %100 |
| 66 | MP2B | Z | 0 | 0 | 0 | %100 |
| 67 | MP3B | X | -.533 | -.533 | 0 | %100 |
| 68 | MP3B | Z | 0 | 0 | 0 | %100 |
| 69 | MP4B | X | -.533 | -.533 | 0 | %100 |
| 70 | MP4B | Z | 0 | 0 | 0 | %100 |
| 71 | MP5B | X | -.533 | -.533 | 0 | %100 |
| 72 | MP5B | Z | 0 | 0 | 0 | %100 |
| 73 | M64 | X | -.856 | -.856 | 0 | %100 |
| 74 | M64 | Z | 0 | 0 | 0 | %100 |
| 75 | M65 | X | -.856 | -.856 | 0 | %100 |
| 76 | M65 | Z | 0 | 0 | 0 | %100 |
| 77 | M66 | X | -.856 | -.856 | 0 | %100 |
| 78 | M66 | Z | 0 | 0 | 0 | %100 |
| 79 | M67 | X | 0 | 0 | 0 | %100 |
| 80 | M67 | Z | 0 | 0 | 0 | %100 |
| 81 | M68 | X | 0 | 0 | 0 | %100 |
| 82 | M68 | Z | 0 | 0 | 0 | %100 |
| 83 | M69 | X | -.856 | -.856 | 0 | %100 |
| 84 | M69 | Z | 0 | 0 | 0 | %100 |
| 85 | M73A | X | 0 | 0 | 0 | %100 |
| 86 | M73A | Z | 0 | 0 | 0 | %100 |
| 87 | M79 | X | -.64 | -.64 | 0 | %100 |
| 88 | M79 | Z | 0 | 0 | 0 | %100 |
| 89 | M80 | X | -.64 | -.64 | 0 | %100 |
| 90 | M80 | Z | 0 | 0 | 0 | %100 |

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 91 | M81 | X | -.484 | -.484 | 0 | %100 |
| 92 | M81 | Z | 0 | 0 | 0 | %100 |
| 93 | M89 | X | -.484 | -.484 | 0 | %100 |
| 94 | M89 | Z | 0 | 0 | 0 | %100 |
| 95 | M104 | X | -.355 | -.355 | 0 | %100 |
| 96 | M104 | Z | 0 | 0 | 0 | %100 |
| 97 | M105 | X | -.001 | -.001 | 0 | %100 |
| 98 | M105 | Z | 0 | 0 | 0 | %100 |
| 99 | M95 | X | -.025 | -.025 | 0 | %100 |
| 100 | M95 | Z | 0 | 0 | 0 | %100 |
| 101 | M96 | X | -.767 | -.767 | 0 | %100 |
| 102 | M96 | Z | 0 | 0 | 0 | %100 |
| 103 | M97 | X | -.767 | -.767 | 0 | %100 |
| 104 | M97 | Z | 0 | 0 | 0 | %100 |
| 105 | M98 | X | -.025 | -.025 | 0 | %100 |
| 106 | M98 | Z | 0 | 0 | 0 | %100 |
| 107 | M90A | X | -.648 | -.648 | 0 | %100 |
| 108 | M90A | Z | 0 | 0 | 0 | %100 |
| 109 | M91A | X | -.35 | -.35 | 0 | %100 |
| 110 | M91A | Z | 0 | 0 | 0 | %100 |
| 111 | M92A | X | -.046 | -.046 | 0 | %100 |
| 112 | M92A | Z | 0 | 0 | 0 | %100 |
| 113 | M93A | X | -.355 | -.355 | 0 | %100 |
| 114 | M93A | Z | 0 | 0 | 0 | %100 |

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | -.073 | -.073 | 0 | %100 |
| 2 | M1 | Z | -.042 | -.042 | 0 | %100 |
| 3 | M2 | X | -.073 | -.073 | 0 | %100 |
| 4 | M2 | Z | -.042 | -.042 | 0 | %100 |
| 5 | M5 | X | -.414 | -.414 | 0 | %100 |
| 6 | M5 | Z | -.239 | -.239 | 0 | %100 |
| 7 | M6 | X | -.414 | -.414 | 0 | %100 |
| 8 | M6 | Z | -.239 | -.239 | 0 | %100 |
| 9 | M8 | X | -.555 | -.555 | 0 | %100 |
| 10 | M8 | Z | -.321 | -.321 | 0 | %100 |
| 11 | M10A | X | -.47 | -.47 | 0 | %100 |
| 12 | M10A | Z | -.272 | -.272 | 0 | %100 |
| 13 | FACE | X | -.169 | -.169 | 0 | %100 |
| 14 | FACE | Z | -.098 | -.098 | 0 | %100 |
| 15 | MP1A | X | -.462 | -.462 | 0 | %100 |
| 16 | MP1A | Z | -.267 | -.267 | 0 | %100 |
| 17 | MP2A | X | -.462 | -.462 | 0 | %100 |
| 18 | MP2A | Z | -.267 | -.267 | 0 | %100 |
| 19 | MP3A | X | -.462 | -.462 | 0 | %100 |
| 20 | MP3A | Z | -.267 | -.267 | 0 | %100 |
| 21 | MP4A | X | -.462 | -.462 | 0 | %100 |
| 22 | MP4A | Z | -.267 | -.267 | 0 | %100 |
| 23 | MP5A | X | -.462 | -.462 | 0 | %100 |
| 24 | MP5A | Z | -.267 | -.267 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 25 | M22 | X | -.073 | -.073 | 0 | % 100 |
| 26 | M22 | Z | -.042 | -.042 | 0 | % 100 |
| 27 | M23 | X | -.073 | -.073 | 0 | % 100 |
| 28 | M23 | Z | -.042 | -.042 | 0 | % 100 |
| 29 | M26 | X | -.414 | -.414 | 0 | % 100 |
| 30 | M26 | Z | -.239 | -.239 | 0 | % 100 |
| 31 | M27 | X | -.414 | -.414 | 0 | % 100 |
| 32 | M27 | Z | -.239 | -.239 | 0 | % 100 |
| 33 | M28 | X | -.555 | -.555 | 0 | % 100 |
| 34 | M28 | Z | -.321 | -.321 | 0 | % 100 |
| 35 | M31 | X | -.47 | -.47 | 0 | % 100 |
| 36 | M31 | Z | -.272 | -.272 | 0 | % 100 |
| 37 | M32 | X | -.169 | -.169 | 0 | % 100 |
| 38 | M32 | Z | -.098 | -.098 | 0 | % 100 |
| 39 | MP1C | X | -.462 | -.462 | 0 | % 100 |
| 40 | MP1C | Z | -.267 | -.267 | 0 | % 100 |
| 41 | MP2C | X | -.462 | -.462 | 0 | % 100 |
| 42 | MP2C | Z | -.267 | -.267 | 0 | % 100 |
| 43 | MP3C | X | -.462 | -.462 | 0 | % 100 |
| 44 | MP3C | Z | -.267 | -.267 | 0 | % 100 |
| 45 | MP4C | X | -.462 | -.462 | 0 | % 100 |
| 46 | MP4C | Z | -.267 | -.267 | 0 | % 100 |
| 47 | MP5C | X | -.462 | -.462 | 0 | % 100 |
| 48 | MP5C | Z | -.267 | -.267 | 0 | % 100 |
| 49 | M43 | X | 0 | 0 | 0 | % 100 |
| 50 | M43 | Z | 0 | 0 | 0 | % 100 |
| 51 | M44 | X | 0 | 0 | 0 | % 100 |
| 52 | M44 | Z | 0 | 0 | 0 | % 100 |
| 53 | M47 | X | 0 | 0 | 0 | % 100 |
| 54 | M47 | Z | 0 | 0 | 0 | % 100 |
| 55 | M48 | X | 0 | 0 | 0 | % 100 |
| 56 | M48 | Z | 0 | 0 | 0 | % 100 |
| 57 | M49 | X | -.555 | -.555 | 0 | % 100 |
| 58 | M49 | Z | -.321 | -.321 | 0 | % 100 |
| 59 | M52 | X | 0 | 0 | 0 | % 100 |
| 60 | M52 | Z | 0 | 0 | 0 | % 100 |
| 61 | M53 | X | -.676 | -.676 | 0 | % 100 |
| 62 | M53 | Z | -.391 | -.391 | 0 | % 100 |
| 63 | MP1B | X | -.462 | -.462 | 0 | % 100 |
| 64 | MP1B | Z | -.267 | -.267 | 0 | % 100 |
| 65 | MP2B | X | -.462 | -.462 | 0 | % 100 |
| 66 | MP2B | Z | -.267 | -.267 | 0 | % 100 |
| 67 | MP3B | X | -.462 | -.462 | 0 | % 100 |
| 68 | MP3B | Z | -.267 | -.267 | 0 | % 100 |
| 69 | MP4B | X | -.462 | -.462 | 0 | % 100 |
| 70 | MP4B | Z | -.267 | -.267 | 0 | % 100 |
| 71 | MP5B | X | -.462 | -.462 | 0 | % 100 |
| 72 | MP5B | Z | -.267 | -.267 | 0 | % 100 |
| 73 | M64 | X | -.247 | -.247 | 0 | % 100 |
| 74 | M64 | Z | -.143 | -.143 | 0 | % 100 |
| 75 | M65 | X | -.988 | -.988 | 0 | % 100 |
| 76 | M65 | Z | -.571 | -.571 | 0 | % 100 |



Member Distributed Loads (BLC 75 : Structure Wm (300 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 77 | M66 | X | -.988 | -.988 | 0 | % 100 |
| 78 | M66 | Z | -.571 | -.571 | 0 | % 100 |
| 79 | M67 | X | -.247 | -.247 | 0 | % 100 |
| 80 | M67 | Z | -.143 | -.143 | 0 | % 100 |
| 81 | M68 | X | -.247 | -.247 | 0 | % 100 |
| 82 | M68 | Z | -.143 | -.143 | 0 | % 100 |
| 83 | M69 | X | -.247 | -.247 | 0 | % 100 |
| 84 | M69 | Z | -.143 | -.143 | 0 | % 100 |
| 85 | M73A | X | -.14 | -.14 | 0 | % 100 |
| 86 | M73A | Z | -.081 | -.081 | 0 | % 100 |
| 87 | M79 | X | -.805 | -.805 | 0 | % 100 |
| 88 | M79 | Z | -.465 | -.465 | 0 | % 100 |
| 89 | M80 | X | -.163 | -.163 | 0 | % 100 |
| 90 | M80 | Z | -.094 | -.094 | 0 | % 100 |
| 91 | M81 | X | -.14 | -.14 | 0 | % 100 |
| 92 | M81 | Z | -.081 | -.081 | 0 | % 100 |
| 93 | M89 | X | -.559 | -.559 | 0 | % 100 |
| 94 | M89 | Z | -.323 | -.323 | 0 | % 100 |
| 95 | M104 | X | -.434 | -.434 | 0 | % 100 |
| 96 | M104 | Z | -.251 | -.251 | 0 | % 100 |
| 97 | M105 | X | -.091 | -.091 | 0 | % 100 |
| 98 | M105 | Z | -.052 | -.052 | 0 | % 100 |
| 99 | M95 | X | -.163 | -.163 | 0 | % 100 |
| 100 | M95 | Z | -.094 | -.094 | 0 | % 100 |
| 101 | M96 | X | -.805 | -.805 | 0 | % 100 |
| 102 | M96 | Z | -.465 | -.465 | 0 | % 100 |
| 103 | M97 | X | -.273 | -.273 | 0 | % 100 |
| 104 | M97 | Z | -.157 | -.157 | 0 | % 100 |
| 105 | M98 | X | -.273 | -.273 | 0 | % 100 |
| 106 | M98 | Z | -.157 | -.157 | 0 | % 100 |
| 107 | M90A | X | -.299 | -.299 | 0 | % 100 |
| 108 | M90A | Z | -.173 | -.173 | 0 | % 100 |
| 109 | M91A | X | -.563 | -.563 | 0 | % 100 |
| 110 | M91A | Z | -.325 | -.325 | 0 | % 100 |
| 111 | M92A | X | -.041 | -.041 | 0 | % 100 |
| 112 | M92A | Z | -.024 | -.024 | 0 | % 100 |
| 113 | M93A | X | -.434 | -.434 | 0 | % 100 |
| 114 | M93A | Z | -.251 | -.251 | 0 | % 100 |

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M1 | X | -.014 | -.014 | 0 | % 100 |
| 2 | M1 | Z | -.024 | -.024 | 0 | % 100 |
| 3 | M2 | X | -.014 | -.014 | 0 | % 100 |
| 4 | M2 | Z | -.024 | -.024 | 0 | % 100 |
| 5 | M5 | X | -.08 | -.08 | 0 | % 100 |
| 6 | M5 | Z | -.138 | -.138 | 0 | % 100 |
| 7 | M6 | X | -.08 | -.08 | 0 | % 100 |
| 8 | M6 | Z | -.138 | -.138 | 0 | % 100 |
| 9 | M8 | X | -.321 | -.321 | 0 | % 100 |
| 10 | M8 | Z | -.555 | -.555 | 0 | % 100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 11 | M10A | X | -.091 | -.091 | 0 | %100 |
| 12 | M10A | Z | -.157 | -.157 | 0 | %100 |
| 13 | FACE | X | -.293 | -.293 | 0 | %100 |
| 14 | FACE | Z | -.507 | -.507 | 0 | %100 |
| 15 | MP1A | X | -.267 | -.267 | 0 | %100 |
| 16 | MP1A | Z | -.462 | -.462 | 0 | %100 |
| 17 | MP2A | X | -.267 | -.267 | 0 | %100 |
| 18 | MP2A | Z | -.462 | -.462 | 0 | %100 |
| 19 | MP3A | X | -.267 | -.267 | 0 | %100 |
| 20 | MP3A | Z | -.462 | -.462 | 0 | %100 |
| 21 | MP4A | X | -.267 | -.267 | 0 | %100 |
| 22 | MP4A | Z | -.462 | -.462 | 0 | %100 |
| 23 | MP5A | X | -.267 | -.267 | 0 | %100 |
| 24 | MP5A | Z | -.462 | -.462 | 0 | %100 |
| 25 | M22 | X | -.056 | -.056 | 0 | %100 |
| 26 | M22 | Z | -.097 | -.097 | 0 | %100 |
| 27 | M23 | X | -.056 | -.056 | 0 | %100 |
| 28 | M23 | Z | -.097 | -.097 | 0 | %100 |
| 29 | M26 | X | -.319 | -.319 | 0 | %100 |
| 30 | M26 | Z | -.553 | -.553 | 0 | %100 |
| 31 | M27 | X | -.319 | -.319 | 0 | %100 |
| 32 | M27 | Z | -.553 | -.553 | 0 | %100 |
| 33 | M28 | X | -.321 | -.321 | 0 | %100 |
| 34 | M28 | Z | -.555 | -.555 | 0 | %100 |
| 35 | M31 | X | -.362 | -.362 | 0 | %100 |
| 36 | M31 | Z | -.627 | -.627 | 0 | %100 |
| 37 | M32 | X | 0 | 0 | 0 | %100 |
| 38 | M32 | Z | 0 | 0 | 0 | %100 |
| 39 | MP1C | X | -.267 | -.267 | 0 | %100 |
| 40 | MP1C | Z | -.462 | -.462 | 0 | %100 |
| 41 | MP2C | X | -.267 | -.267 | 0 | %100 |
| 42 | MP2C | Z | -.462 | -.462 | 0 | %100 |
| 43 | MP3C | X | -.267 | -.267 | 0 | %100 |
| 44 | MP3C | Z | -.462 | -.462 | 0 | %100 |
| 45 | MP4C | X | -.267 | -.267 | 0 | %100 |
| 46 | MP4C | Z | -.462 | -.462 | 0 | %100 |
| 47 | MP5C | X | -.267 | -.267 | 0 | %100 |
| 48 | MP5C | Z | -.462 | -.462 | 0 | %100 |
| 49 | M43 | X | -.014 | -.014 | 0 | %100 |
| 50 | M43 | Z | -.024 | -.024 | 0 | %100 |
| 51 | M44 | X | -.014 | -.014 | 0 | %100 |
| 52 | M44 | Z | -.024 | -.024 | 0 | %100 |
| 53 | M47 | X | -.08 | -.08 | 0 | %100 |
| 54 | M47 | Z | -.138 | -.138 | 0 | %100 |
| 55 | M48 | X | -.08 | -.08 | 0 | %100 |
| 56 | M48 | Z | -.138 | -.138 | 0 | %100 |
| 57 | M49 | X | -.321 | -.321 | 0 | %100 |
| 58 | M49 | Z | -.555 | -.555 | 0 | %100 |
| 59 | M52 | X | -.091 | -.091 | 0 | %100 |
| 60 | M52 | Z | -.157 | -.157 | 0 | %100 |
| 61 | M53 | X | -.293 | -.293 | 0 | %100 |
| 62 | M53 | Z | -.507 | -.507 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M10A | Y | -20.055 | -20.055 | 15.153 | 25.546 |
| 2 | FACE | Y | -1.745 | -1.745 | 34.8 | 55.68 |
| 3 | FACE | Y | -1.745 | -.886 | 55.68 | 76.56 |
| 4 | FACE | Y | -.886 | -.848 | 76.56 | 97.44 |
| 5 | FACE | Y | -.848 | -1.404 | 97.44 | 118.32 |
| 6 | FACE | Y | -1.404 | -.874 | 118.32 | 139.2 |
| 7 | M64 | Y | -9.867e-8 | -2.281 | 17.2 | 22.36 |
| 8 | M64 | Y | -2.281 | -6.671 | 22.36 | 27.52 |
| 9 | M64 | Y | -6.671 | -6.534 | 27.52 | 32.68 |
| 10 | M64 | Y | -6.534 | -4.289 | 32.68 | 37.84 |
| 11 | M64 | Y | -4.289 | -4.289 | 37.84 | 43 |
| 12 | M65 | Y | -.569 | -4.133 | 17.2 | 23.65 |
| 13 | M65 | Y | -4.133 | -5.874 | 23.65 | 30.1 |
| 14 | M65 | Y | -5.874 | -4.888 | 30.1 | 36.55 |
| 15 | M65 | Y | -4.888 | -2.997 | 36.55 | 43 |
| 16 | M10A | Y | -23.119 | -23.119 | 4.761 | 15.153 |
| 17 | M64 | Y | 1.791 | -5.372 | 25.8 | 34.4 |
| 18 | M64 | Y | -5.372 | -19.696 | 34.4 | 43 |
| 19 | M65 | Y | 1.549 | .05 | 25.8 | 31.533 |
| 20 | M65 | Y | .05 | -10.741 | 31.533 | 37.267 |
| 21 | M65 | Y | -10.741 | -29.327 | 37.267 | 43 |
| 22 | M31 | Y | -22.089 | -22.089 | 4.761 | 15.153 |
| 23 | M66 | Y | 1.467 | .044 | 25.8 | 31.533 |
| 24 | M66 | Y | .044 | -10.184 | 31.533 | 37.267 |
| 25 | M66 | Y | -15.878 | -29.873 | 37.267 | 43 |
| 26 | M67 | Y | 1.542 | .01 | 25.8 | 31.533 |
| 27 | M67 | Y | .01 | -10.774 | 31.533 | 37.267 |
| 28 | M67 | Y | -10.774 | -29.278 | 37.267 | 43 |
| 29 | M31 | Y | -20.029 | -20.029 | 15.153 | 25.546 |
| 30 | M32 | Y | -1.77 | -1.77 | 34.8 | 55.68 |
| 31 | M32 | Y | -1.77 | -.911 | 55.68 | 76.56 |
| 32 | M32 | Y | -.911 | -.87 | 76.56 | 97.44 |
| 33 | M32 | Y | -.87 | -1.175 | 97.44 | 118.32 |
| 34 | M32 | Y | -1.175 | -.149 | 118.32 | 139.2 |
| 35 | M66 | Y | -.181 | -1.107 | 12.9 | 18.92 |
| 36 | M66 | Y | -1.107 | -4.967 | 18.92 | 24.94 |
| 37 | M66 | Y | -4.967 | -7.701 | 24.94 | 30.96 |
| 38 | M66 | Y | -7.701 | -5.694 | 30.96 | 36.98 |
| 39 | M67 | Y | -.569 | -4.133 | 17.2 | 23.65 |
| 40 | M67 | Y | -4.133 | -5.874 | 23.65 | 30.1 |
| 41 | M67 | Y | -5.874 | -4.888 | 30.1 | 36.55 |
| 42 | M67 | Y | -4.888 | -2.997 | 36.55 | 43 |
| 43 | M52 | Y | -20.055 | -20.055 | 15.153 | 25.546 |
| 44 | M53 | Y | -1.745 | -1.745 | 34.8 | 55.68 |
| 45 | M53 | Y | -1.745 | -.886 | 55.68 | 76.56 |
| 46 | M53 | Y | -.886 | -.848 | 76.56 | 97.44 |
| 47 | M53 | Y | -.848 | -1.404 | 97.44 | 118.32 |
| 48 | M53 | Y | -1.404 | -.874 | 118.32 | 139.2 |
| 49 | M68 | Y | -9.859e-8 | -2.281 | 17.2 | 22.36 |
| 50 | M68 | Y | -2.281 | -6.671 | 22.36 | 27.52 |
| 51 | M68 | Y | -6.671 | -6.534 | 27.52 | 32.68 |
| 52 | M68 | Y | -6.534 | -4.289 | 32.68 | 37.84 |



Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 53 | M68 | Y | -4.289 | -4.289 | 37.84 | 43 |
| 54 | M69 | Y | -.569 | -4.133 | 17.2 | 23.65 |
| 55 | M69 | Y | -4.133 | -5.874 | 23.65 | 30.1 |
| 56 | M69 | Y | -5.874 | -4.888 | 30.1 | 36.55 |
| 57 | M69 | Y | -4.888 | -2.997 | 36.55 | 43 |
| 58 | M52 | Y | -22.089 | -22.089 | 4.761 | 15.153 |
| 59 | M68 | Y | 1.467 | .044 | 25.8 | 31.533 |
| 60 | M68 | Y | .044 | -10.184 | 31.533 | 37.267 |
| 61 | M68 | Y | -10.184 | -27.792 | 37.267 | 43 |
| 62 | M69 | Y | 1.61 | .283 | 25.8 | 31.533 |
| 63 | M69 | Y | .283 | -10.705 | 31.533 | 37.267 |
| 64 | M69 | Y | -10.705 | -30.028 | 37.267 | 43 |

Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M31 | Y | -39.216 | -39.216 | 15.153 | 25.546 |
| 2 | M32 | Y | -3.413 | -3.413 | 34.8 | 55.68 |
| 3 | M32 | Y | -3.413 | -1.732 | 55.68 | 76.56 |
| 4 | M32 | Y | -1.732 | -1.658 | 76.56 | 97.44 |
| 5 | M32 | Y | -1.658 | -2.746 | 97.44 | 118.32 |
| 6 | M32 | Y | -2.746 | -1.71 | 118.32 | 139.2 |
| 7 | M66 | Y | -1.93e-7 | -4.46 | 17.2 | 22.36 |
| 8 | M66 | Y | -4.46 | -13.044 | 22.36 | 27.52 |
| 9 | M66 | Y | -13.044 | -12.777 | 27.52 | 32.68 |
| 10 | M66 | Y | -12.777 | -8.387 | 32.68 | 37.84 |
| 11 | M66 | Y | -8.387 | -8.387 | 37.84 | 43 |
| 12 | M67 | Y | -1.113 | -8.081 | 17.2 | 23.65 |
| 13 | M67 | Y | -8.081 | -11.486 | 23.65 | 30.1 |
| 14 | M67 | Y | -11.486 | -9.557 | 30.1 | 36.55 |
| 15 | M67 | Y | -9.557 | -5.86 | 36.55 | 43 |
| 16 | M31 | Y | -43.192 | -43.192 | 4.761 | 15.153 |
| 17 | M66 | Y | 2.869 | .085 | 25.8 | 31.533 |
| 18 | M66 | Y | .085 | -19.914 | 31.533 | 37.267 |
| 19 | M66 | Y | -19.914 | -54.345 | 37.267 | 43 |
| 20 | M67 | Y | 3.015 | .02 | 25.8 | 31.533 |
| 21 | M67 | Y | .02 | -21.066 | 31.533 | 37.267 |
| 22 | M67 | Y | -21.066 | -57.25 | 37.267 | 43 |
| 23 | M52 | Y | -39.216 | -39.216 | 15.153 | 25.546 |
| 24 | M53 | Y | -3.413 | -3.413 | 34.8 | 55.68 |
| 25 | M53 | Y | -3.413 | -1.732 | 55.68 | 76.56 |
| 26 | M53 | Y | -1.732 | -1.658 | 76.56 | 97.44 |
| 27 | M53 | Y | -1.658 | -2.746 | 97.44 | 118.32 |
| 28 | M53 | Y | -2.746 | -1.71 | 118.32 | 139.2 |
| 29 | M68 | Y | -1.928e-7 | -4.46 | 17.2 | 22.36 |
| 30 | M68 | Y | -4.46 | -13.044 | 22.36 | 27.52 |
| 31 | M68 | Y | -13.044 | -12.777 | 27.52 | 32.68 |
| 32 | M68 | Y | -12.777 | -8.387 | 32.68 | 37.84 |
| 33 | M68 | Y | -8.387 | -8.387 | 37.84 | 43 |
| 34 | M69 | Y | -1.113 | -8.081 | 17.2 | 23.65 |
| 35 | M69 | Y | -8.081 | -11.486 | 23.65 | 30.1 |
| 36 | M69 | Y | -11.486 | -9.557 | 30.1 | 36.55 |



Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[in, %] | End Location[in, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 37 | M69 | Y | -9.557 | -5.86 | 36.55 | 43 |
| 38 | M52 | Y | -43.192 | -43.192 | 4.761 | 15.153 |
| 39 | M68 | Y | 2.869 | .085 | 25.8 | 31.533 |
| 40 | M68 | Y | .085 | -19.914 | 31.533 | 37.267 |
| 41 | M68 | Y | -19.914 | -54.345 | 37.267 | 43 |
| 42 | M69 | Y | 3.149 | .553 | 25.8 | 31.533 |
| 43 | M69 | Y | .553 | -20.933 | 31.533 | 37.267 |
| 44 | M69 | Y | -20.933 | -58.715 | 37.267 | 43 |
| 45 | M10A | Y | -39.165 | -39.165 | 15.153 | 25.546 |
| 46 | FACE | Y | -3.461 | -3.461 | 34.8 | 55.68 |
| 47 | FACE | Y | -3.461 | -1.781 | 55.68 | 76.56 |
| 48 | FACE | Y | -1.781 | -1.7 | 76.56 | 97.44 |
| 49 | FACE | Y | -1.7 | -2.297 | 97.44 | 118.32 |
| 50 | FACE | Y | -2.297 | -.291 | 118.32 | 139.2 |
| 51 | M64 | Y | -.353 | -2.165 | 12.9 | 18.92 |
| 52 | M64 | Y | -2.165 | -9.712 | 18.92 | 24.94 |
| 53 | M64 | Y | -9.712 | -15.058 | 24.94 | 30.96 |
| 54 | M64 | Y | -15.058 | -11.134 | 30.96 | 36.98 |
| 55 | M64 | Y | -30.918 | -59.838 | 36.98 | 43 |
| 56 | M65 | Y | -1.113 | -8.081 | 17.2 | 23.65 |
| 57 | M65 | Y | -8.081 | -11.486 | 23.65 | 30.1 |
| 58 | M65 | Y | -11.486 | -9.557 | 30.1 | 36.55 |
| 59 | M65 | Y | -9.557 | -5.86 | 36.55 | 43 |
| 60 | M10A | Y | -43.192 | -43.192 | 4.761 | 15.153 |
| 61 | M64 | Y | 2.999 | .604 | 25.8 | 31.533 |
| 62 | M64 | Y | .604 | -19.784 | 31.533 | 37.267 |
| 63 | M65 | Y | 3.015 | .02 | 25.8 | 31.533 |
| 64 | M65 | Y | .02 | -21.066 | 31.533 | 37.267 |
| 65 | M65 | Y | -21.066 | -57.25 | 37.267 | 43 |

Member Area Loads (BLC 39 : Structure D)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | N246 | N245 | N243 | N244 | Y | Two Way | -.005 |
| 2 | N244 | N105A | N104A | N243 | Y | Two Way | -.005 |
| 3 | N109 | N367 | N366 | N108 | Y | Two Way | -.005 |
| 4 | N368 | N369 | N367 | N366 | Y | Two Way | -.005 |
| 5 | N123 | N122 | N120A | N121A | Y | Two Way | -.005 |
| 6 | N113 | N121A | N120A | N112 | Y | Two Way | -.005 |

Member Area Loads (BLC 40 : Structure Di)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | N369 | N368 | N366 | N367 | Y | Two Way | -.01 |
| 2 | N109 | N367 | N366 | N108 | Y | Two Way | -.01 |
| 3 | N123 | N122 | N120A | N121A | Y | Two Way | -.01 |
| 4 | N121A | N120A | N112 | N113 | Y | Two Way | -.01 |
| 5 | N245 | N246 | N244 | N243 | Y | Two Way | -.01 |
| 6 | N243 | N104A | N105A | N244 | Y | Two Way | -.01 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 469183-VZW_MT_LO_H

Apr 14, 2021
 2:42 PM
 Checked By: _____

Envelope Joint Reactions

| Joint | | X [lb] | LC | Y [lb] | LC | Z [lb] | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC | |
|-------|---------|--------|-----------|--------|----------|--------|-----------|-----------|-------|-----------|-------|-----------|-------|----|
| 1 | N3 | max | 523.606 | 8 | 358.219 | 20 | -215.287 | 6 | -.085 | 10 | .623 | 8 | .041 | 8 |
| 2 | | min | -579.094 | 2 | -2.632 | 2 | -1100.345 | 24 | -.274 | 16 | -.675 | 2 | -.039 | 2 |
| 3 | N2 | max | 432.768 | 8 | 1923.871 | 13 | 2278.05 | 13 | -.06 | 7 | .531 | 8 | .043 | 2 |
| 4 | | min | -372.227 | 38 | 193.872 | 7 | -22.373 | 7 | -.18 | 13 | -.426 | 2 | -.049 | 8 |
| 5 | N37 | max | 1966.633 | 22 | 1935.32 | 21 | 80.425 | 2 | .094 | 22 | .548 | 4 | .162 | 20 |
| 6 | | min | -209.215 | 4 | 206.203 | 3 | -1272.126 | 20 | -.011 | 4 | -.44 | 10 | .04 | 2 |
| 7 | N38 | max | 48.454 | 2 | 363.759 | 16 | 822.02 | 10 | .147 | 16 | .631 | 4 | .238 | 24 |
| 8 | | min | -961.825 | 20 | -11.431 | 10 | -266.807 | 4 | .016 | 10 | -.687 | 10 | .077 | 6 |
| 9 | N72 | max | -43.393 | 11 | 1951.389 | 17 | 355.461 | 12 | .101 | 16 | .52 | 12 | -.032 | 12 |
| 10 | | min | -2039.582 | 17 | 192.657 | 11 | -1250.423 | 6 | 0 | 10 | -.439 | 6 | -.16 | 18 |
| 11 | N73 | max | 1041.852 | 18 | 359.136 | 24 | 780.648 | 4 | .137 | 21 | .605 | 12 | -.059 | 10 |
| 12 | | min | 53.171 | 12 | -1.991 | 6 | -327.289 | 10 | .043 | 12 | -.673 | 6 | -.242 | 24 |
| 13 | N154 | max | 1078.524 | 10 | 844.301 | 7 | 1402.875 | 1 | 0 | 51 | 0 | 51 | 0 | 51 |
| 14 | | min | -1137.991 | 4 | -424.034 | 1 | -2617.347 | 7 | 0 | 1 | 0 | 1 | 0 | 1 |
| 15 | N169 | max | 1027.948 | 9 | 845.003 | 3 | 1638.492 | 3 | 0 | 51 | 0 | 51 | 0 | 51 |
| 16 | | min | -2078.034 | 3 | -424.321 | 9 | -1027.446 | 9 | 0 | 1 | 0 | 1 | 0 | 1 |
| 17 | N184 | max | 2550.411 | 11 | 889.255 | 11 | 1356.931 | 1 | 0 | 51 | 0 | 51 | 0 | 51 |
| 18 | | min | -1479.623 | 5 | -458.984 | 5 | -737.917 | 7 | 0 | 1 | 0 | 1 | 0 | 1 |
| 19 | Totals: | max | 5685.579 | 10 | 7820.39 | 18 | 5673.73 | 1 | | | | | | |
| 20 | | min | -5685.685 | 4 | 3637.804 | 12 | -5673.728 | 7 | | | | | | |

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

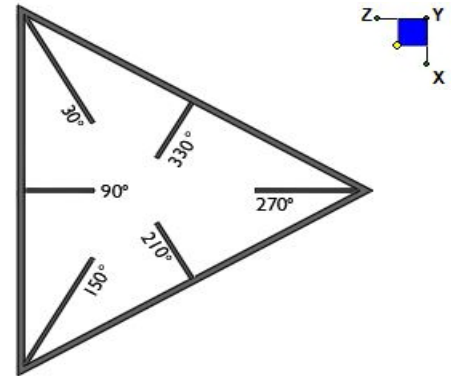
| Member | Shape | Code C... | Loc[in] | LC | Shear ... | Loc[in] | Dir | LC | phi*Pnc [lb] | phi*Pnt [lb] | phi*Mn y-... | phi*Mn z-... | Cb | Eqn |
|--------|-------|-----------|---------|--------|-----------|---------|--------|----|--------------|--------------|--------------|--------------|--------|-------------|
| 1 | M1 | PL1/2X6 | .281 | 0 | 16 | .067 | 0 | y | 8 | 94237.273 | 97200 | 1.012 | 12.15 | 1.... H1-1b |
| 2 | M2 | PL1/2X6 | .393 | 3.5 | 13 | .075 | 0 | y | 8 | 94237.273 | 97200 | 1.012 | 12.15 | 1.... H1-1b |
| 3 | M5 | HSS4X4X4 | .034 | 0 | 2 | .025 | 0 | z | 2 | 139028.2... | 139518 | 16.181 | 16.181 | 1.... H1-1b |
| 4 | M6 | HSS4X4X4 | .118 | 11 | 13 | .051 | 0 | y | 13 | 139028.2... | 139518 | 16.181 | 16.181 | 1.... H1-1b |
| 5 | M8 | PIPE 4.0 | .275 | 24 | 13 | .084 | 48 | | 13 | 88587.957 | 93240 | 10.631 | 10.631 | 1.... H1-1b |
| 6 | M10A | HSS4X4X4 | .296 | 0 | 13 | .101 | 0 | y | 34 | 132545.5... | 139518 | 16.181 | 16.181 | 2.... H1-1b |
| 7 | FACE | PIPE 3.5 | .518 | 87 | 2 | .296 | 87 | | 22 | 33421.679 | 78750 | 7.954 | 7.954 | 1.... H1-1b |
| 8 | MP1A | PIPE 2.0 | .289 | 35.625 | 2 | .132 | 36.25 | | 4 | 23808.54 | 32130 | 1.872 | 1.872 | 1.... H1-1b |
| 9 | MP2A | PIPE 2.0 | .500 | 47.5 | 16 | .162 | 42.5 | | 8 | 23808.54 | 32130 | 1.872 | 1.872 | 1.... H1-1b |
| 10 | MP3A | PIPE 2.0 | .497 | 54.75 | 21 | .152 | 54.75 | | 10 | 20866.733 | 32130 | 1.872 | 1.872 | 1.... H1-1b |
| 11 | MP4A | PIPE 2.0 | .463 | 47.5 | 42 | .117 | 47.5 | | 42 | 23808.54 | 32130 | 1.872 | 1.872 | 1.... H1-1b |
| 12 | MP5A | PIPE 2.0 | .324 | 47.5 | 42 | .124 | 35.625 | | 2 | 23808.54 | 32130 | 1.872 | 1.872 | 1.8 H1-1b |
| 13 | M22 | PL1/2X6 | .284 | 0 | 24 | .068 | 0 | y | 4 | 94237.273 | 97200 | 1.012 | 12.15 | 1.... H1-1b |
| 14 | M23 | PL1/2X6 | .395 | 3.5 | 21 | .077 | 0 | y | 4 | 94237.273 | 97200 | 1.012 | 12.15 | 1.... H1-1b |
| 15 | M26 | HSS4X4X4 | .034 | 0 | 10 | .025 | 0 | z | 10 | 139028.2... | 139518 | 16.181 | 16.181 | 1.... H1-1b |
| 16 | M27 | HSS4X4X4 | .118 | 11 | 21 | .051 | 0 | y | 21 | 139028.2... | 139518 | 16.181 | 16.181 | 1.... H1-1b |
| 17 | M28 | PIPE 4.0 | .279 | 24 | 10 | .084 | 48 | | 21 | 88587.957 | 93240 | 10.631 | 10.631 | 1.... H1-1b |
| 18 | M31 | HSS4X4X4 | .298 | 0 | 21 | .091 | 0 | y | 18 | 132545.5... | 139518 | 16.181 | 16.181 | 2.... H1-1b |
| 19 | M32 | PIPE 3.5 | .538 | 87 | 10 | .298 | 87 | | 18 | 33421.679 | 78750 | 7.954 | 7.954 | 1.... H1-1b |
| 20 | MP1C | PIPE 2.0 | .280 | 35.625 | 10 | .129 | 36.25 | | 12 | 23808.54 | 32130 | 1.872 | 1.872 | 2.... H1-1b |
| 21 | MP2C | PIPE 2.0 | .506 | 47.5 | 24 | .164 | 42.5 | | 4 | 23808.54 | 32130 | 1.872 | 1.872 | 1.... H1-1b |
| 22 | MP3C | PIPE 2.0 | .501 | 54.75 | 17 | .151 | 31.5 | | 2 | 20866.733 | 32130 | 1.872 | 1.872 | 2 H1-1b |
| 23 | MP4C | PIPE 2.0 | .388 | 47.5 | 14 | .072 | 24.375 | | 5 | 23808.54 | 32130 | 1.872 | 1.872 | 2.... H1-1b |
| 24 | MP5C | PIPE 2.0 | .239 | 47.5 | 22 | .128 | 35.625 | | 10 | 23808.54 | 32130 | 1.872 | 1.872 | 2.... H1-1b |
| 25 | M43 | PL1/2X6 | .283 | 0 | 20 | .066 | 0 | y | 6 | 94237.273 | 97200 | 1.012 | 12.15 | 1.... H1-1b |
| 26 | M44 | PL1/2X6 | .398 | 3.5 | 17 | .073 | 0 | y | 12 | 94237.273 | 97200 | 1.012 | 12.15 | 1.... H1-1b |



I. Mount-to-Tower Connection Check

RISA Model Data

| Nodes (labeled per RISA) | Orientation (per graphic of typical platform) |
|-----------------------------|--|
| N73 | 330 |
| N72 | 330 |
| N38 | 210 |
| N37 | 210 |
| N2 | 90 |
| N3 | 90 |
| | |
| | |
| | |



TYPICAL PLATFORM

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

W1 (in):

W2 (in):

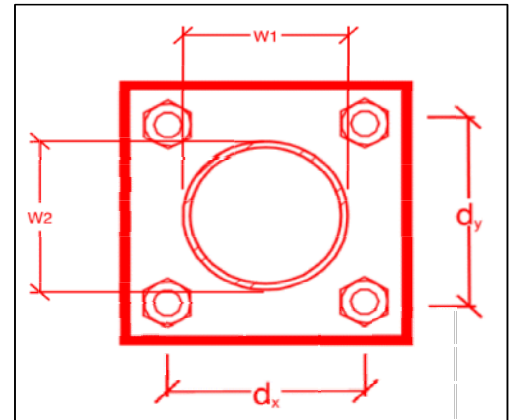
Weld Size (1/16 in):

Phi*Rn (kip/in):

Required Weld Strength (kip/in):

Weld Capacity:

| |
|--------------|
| Rect |
| 6 |
| 0.625 |
| 3 |
| 4.18 |
| 0.94 |
| 22.4% |



Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Purpose – to provide Maser Consulting Connecticut the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the drawings
- Provide “as built drawings” showing contractor’s name, preparer’s signature, and date. Any deviations from the drawings (proposed modification) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to <https://pmi.vzwsmart.com> as depicted on the drawings

Photo Requirements:

- Base and “During Installation Photos”
 - Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
 - “During Installation Photos if provided - must be placed only in this folder
- Photos taken at ground level
 - Overall tower structure before and after installation of the modifications
 - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- Photos taken at Mount Elevation
 - Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
 - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
 - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
 - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
 - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
 - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
 - Photos showing the safety climb wire rope above and below the mount prior to modification.
 - Photos showing the climbing facility and safety climb if present.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting Connecticut.
 - If the drawings are as specified on the drawings
 - The contractor should provide the packing list or the materials utilized to perform the mount modification
 - If an equivalent is utilized
 - It is required that the Maser Consulting Connecticut certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

The Material utilized was as specified on the Maser Consulting Connecticut Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials

The material utilized was an "equivalent" and included as part of the contractor submission is the Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.
- ❑ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.
- ❑ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual:

Company _____

Name _____

Signature _____


















Special Instructions / Validation as required from the MA or Mod Drawings:

Issue:

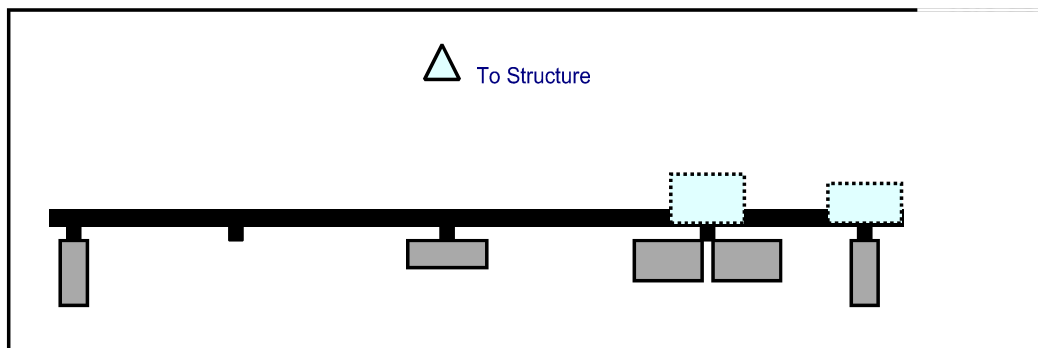
Contractor to relocate existing tower mounted OVP units as necessary to install new bracing kits.

Response:

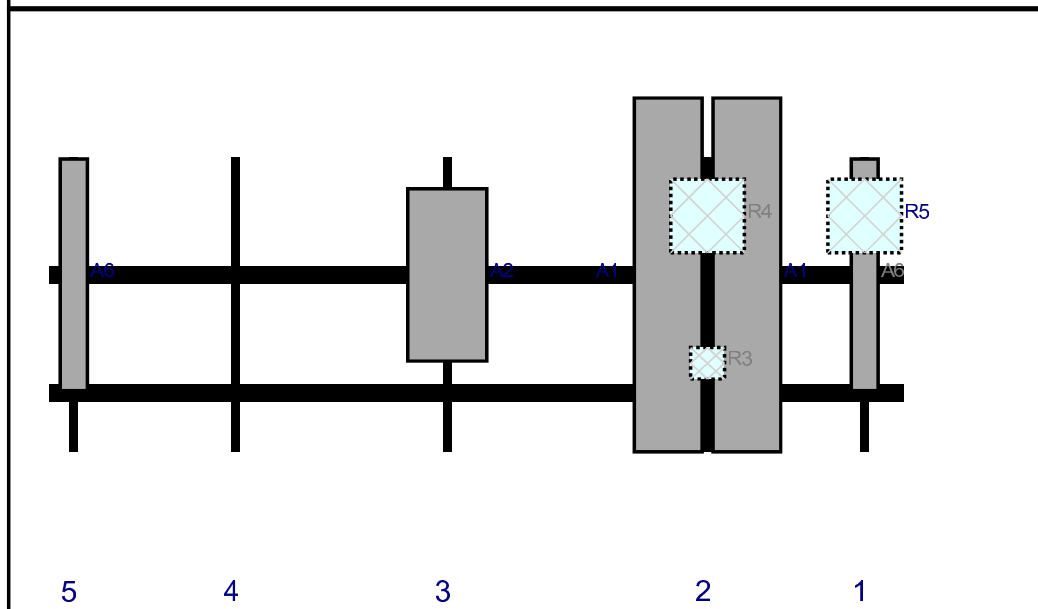
Schedule A – Photo & Document File Structure

-  VzW Site Number / Name
 -  Base & “During Installation” Photos
 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present
-  Certifications – Submission of this document including certifications
-  Specific Required Additional Photos

Plan View

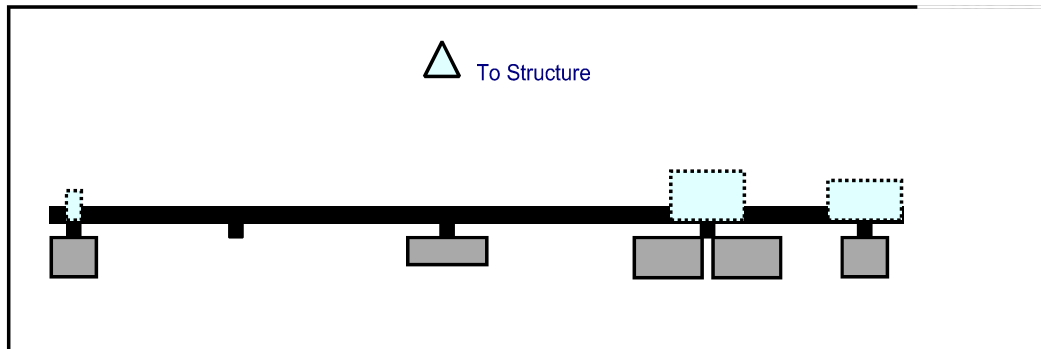


Front View
Looking at Structure

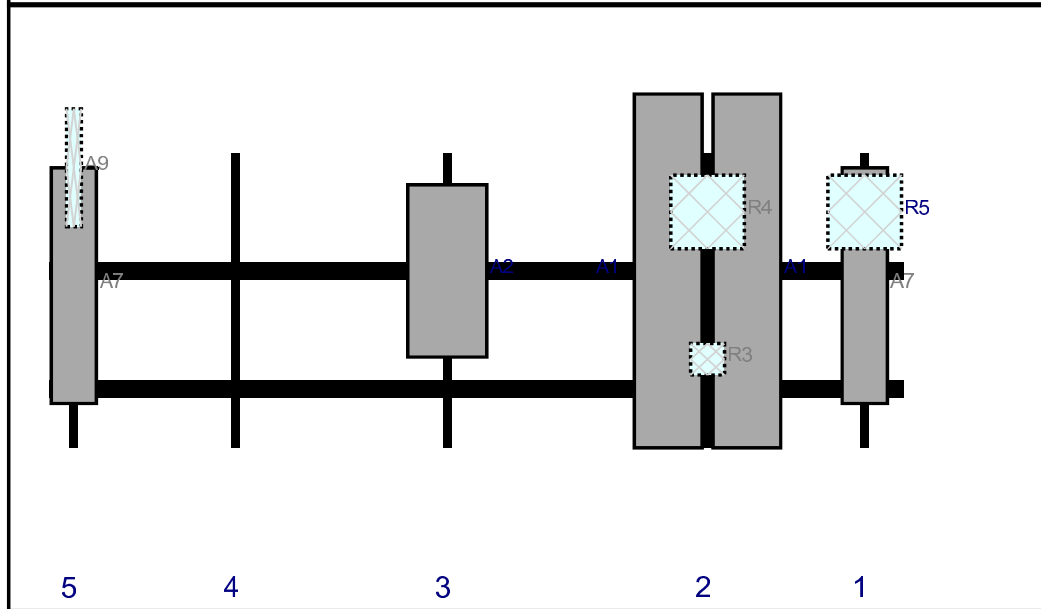


| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|------|--------------------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A6 | LPA-80080-4CF | 47.2 | 5.5 | 166 | 1 | a | Front | 24 | 0 | Retained | 02/09/2021 |
| R5 | B5/B13 RRH-BR04C (RFV01U-D2A) | 15 | 15 | 166 | 1 | a | Behind | 12 | 0 | Added | |
| A1 | JAHH-65B-R3B | 72 | 13.8 | 134 | 2 | a | Front | 24 | 8 | Added | |
| A1 | JAHH-65B-R3B | 72 | 13.8 | 134 | 2 | b | Front | 24 | -8 | Added | |
| R3 | CBC78T-DS-43-2X | 6.4 | 6.9 | 134 | 2 | a | Behind | 42 | 0 | Added | |
| R4 | B2/B66A RRH-BR049 (RFV01U-D1A) | 15 | 15 | 134 | 2 | a | Behind | 12 | 0 | Added | |
| A2 | MT6407-77A | 35.1 | 16.1 | 81 | 3 | a | Front | 24 | 0 | Added | |
| A6 | LPA-80080-4CF | 47.2 | 5.5 | 5 | 5 | a | Front | 24 | 0 | Retained | 02/09/2021 |

Plan View

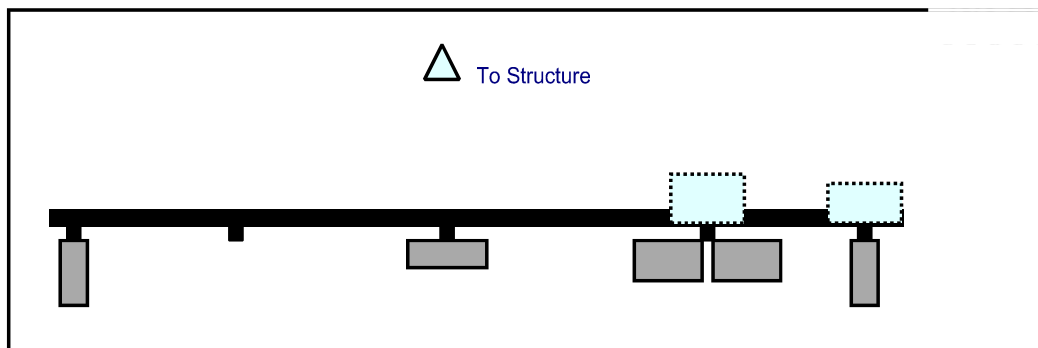


Front View
 Looking at Structure

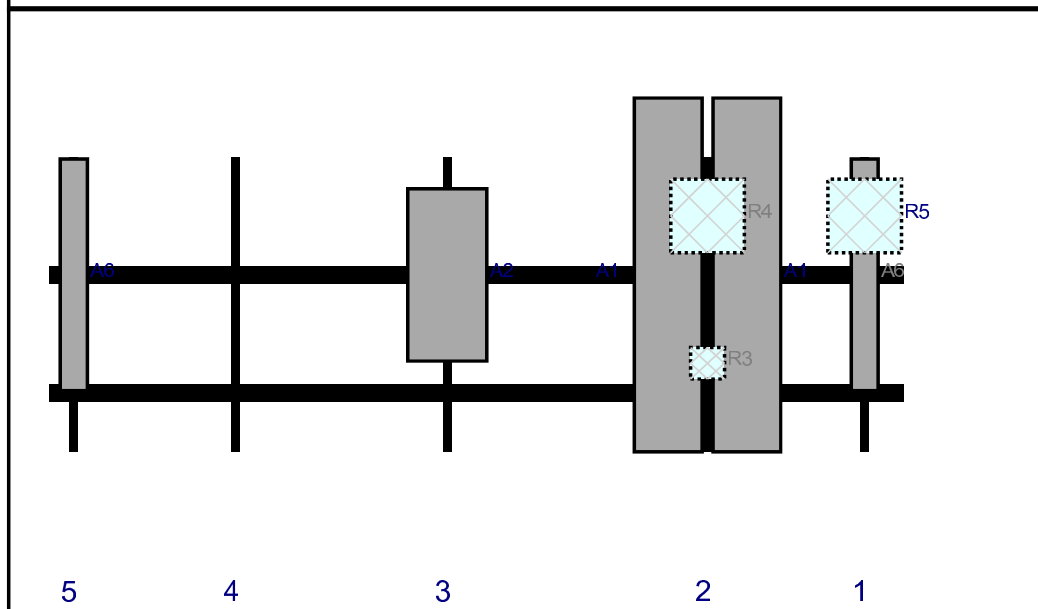


| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|------|--------------------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A7 | APL866513 | 48 | 9.2 | 166 | 1 | a | Front | 27 | 0 | Retained | 02/09/2021 |
| R5 | B5/B13 RRH-BR04C (RFV01U-D2A) | 15 | 15 | 166 | 1 | a | Behind | 12 | 0 | Added | |
| A1 | JAHH-65B-R3B | 72 | 13.8 | 134 | 2 | a | Front | 24 | 8 | Added | |
| A1 | JAHH-65B-R3B | 72 | 13.8 | 134 | 2 | b | Front | 24 | -8 | Added | |
| R3 | CBC78T-DS-43-2X | 6.4 | 6.9 | 134 | 2 | a | Behind | 42 | 0 | Added | |
| R4 | B2/B66A RRH-BR049 (RFV01U-D1A) | 15 | 15 | 134 | 2 | a | Behind | 12 | 0 | Added | |
| A2 | MT6407-77A | 35.1 | 16.1 | 81 | 3 | a | Front | 24 | 0 | Added | |
| A7 | APL866513 | 48 | 9.2 | 5 | 5 | a | Front | 27 | 0 | Retained | 02/09/2021 |
| A9 | GPS | 24 | 3 | 5 | 5 | a | Behind | 3 | 0 | Retained | 02/09/2021 |

Plan View



Front View
Looking at Structure



| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|------|--------------------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A6 | LPA-80080-4CF | 47.2 | 5.5 | 166 | 1 | a | Front | 24 | 0 | Retained | 02/09/2021 |
| R5 | B5/B13 RRH-BR04C (RFV01U-D2A) | 15 | 15 | 166 | 1 | a | Behind | 12 | 0 | Added | |
| A1 | JAHH-65B-R3B | 72 | 13.8 | 134 | 2 | a | Front | 24 | 8 | Added | |
| A1 | JAHH-65B-R3B | 72 | 13.8 | 134 | 2 | b | Front | 24 | -8 | Added | |
| R3 | CBC78T-DS-43-2X | 6.4 | 6.9 | 134 | 2 | a | Behind | 42 | 0 | Added | |
| R4 | B2/B66A RRH-BR049 (RFV01U-D1A) | 15 | 15 | 134 | 2 | a | Behind | 12 | 0 | Added | |
| A2 | MT6407-77A | 35.1 | 16.1 | 81 | 3 | a | Front | 24 | 0 | Added | |
| A6 | LPA-80080-4CF | 47.2 | 5.5 | 5 | 5 | a | Front | 24 | 0 | Retained | 02/09/2021 |

Maser Consulting Connecticut

Subject TIA-222-H Adoption and Wind Speed Usage

Site Information Site ID: 469183-VZW / Montville 2 CT
Site Name: Montville 2 CT
Carrier Name: Verizon Wireless
Address: 45 Fargo Rd
Montville, Connecticut 06385
New London County

Latitude: 41.388987°
Longitude: -72.169800°

Structure Information Tower Type: 190-Ft Monopole
Mount Type: 14.50-Ft T-Arm

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. The TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed maps by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

Taqi Khawaja, PE

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES, ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO COLLISIONS BEING REPAIRED BY THE CONTRACTOR'S SERVICE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL AND PREPARING OF SHOP DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANS/ITIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANS/ITIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS WINDS LESS THAN 30(MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING BRACING AND ANY OTHERS STRUCTURAL HANDLING AND ERECTION TO THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANS/ITIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOPRAC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ALL MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR TO ALTERED SIZE AND/OR STRENGTH MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE POINT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

- WIND LOADS
 a. BASIC WIND SPEED (3 SECOND GUST), V = 126 MPH
 b. EXPOSURE CATEGORY B
 c. TOPOGRAPHIC CATEGORY I
 d. MEAN BASE ELEVATION (AMS), = 299.57'
- ICE LOADS
 a. ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
 b. ICE THICKNESS = 1.00 IN
- SEISMIC LOADS
 a. SEISMIC DESIGN CATEGORY B
 b. SHORT TERM MCEER GROUND MOTION, S₁ = .197
 c. LONG TERM MCEER GROUND MOTION, S₂ = .053

PROTECT STEEL BY ANY OTHER MEANS.

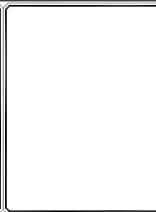
14. ALL EXISTING PAINTED GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
 - CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (R3)
 - STEEL PIPE ASTM A53 (R3)
 - BOLTS ASTM A325
 - WASHERS ASTM A307
 - LOCK WASHERS LOCKING STRUCTURAL GRADE
3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND CORRECTION, SHALL BE NOTED IN THE SHOP DRAWINGS. SUBSTITUTIONS WITH THE SUBSTITUTIONS BEING PROVIDED TO THE ENGINEER, CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - a. SUBMIT SHOP DRAWINGS TO GREG.DUNNIN@COLLIERENGINEERING.COM
 - b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BEDIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NUTS, BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO PERMIT THE BOLT TO BE FULLY TIGHTENED TO THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BEDIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO

MASER CONSULTING ENGINEERS
 CREDENTIALED PROFESSIONAL ENGINEERS
 www.maser.com Offices Nationwide

NEW JERSEY
 NEW MEXICO
 NORTH CAROLINA
 PENNSYLVANIA
 TEXAS
 VIRGINIA
 WISCONSIN



PROTECT YOURSELF
 ALL STATES REQUIRE AN ERECTION LICENSE TO PERFORM CONSTRUCTION WORK.
 CALL TODAY FOR A FREE INFORMATIONAL VIDEO.
 800-854-2222
 www.maser.com

| REV | DATE | DESCRIPTION | APPROVED BY |
|-----|------------|-------------------|-------------|
| 0 | 01/10/2014 | ISSUED FOR PERMIT | JK |
| 1 | 01/10/2014 | ISSUED FOR PERMIT | JK |
| 2 | 01/10/2014 | ISSUED FOR PERMIT | JK |

Digitally signed by Ted M. Masera
 DN: cn=Ted M. Masera, o=MASER CONSULTING ENGINEERS, ou=MASER CONSULTING ENGINEERS, email=tm@maser.com, c=CT, postalCode=06203

DATE: 2/26/24 10:45 AM
 06-0401

SITE NAME:
 MONTVILLE 2 CT
 469183

45 FARGO RD
 MONTVILLE, CT 06385
 NEW LONDON COUNTY

MASER CONSULTING ENGINEERS
 1000 Main Street
 Montville, CT 06385
 Phone: 862.979.0412
 Fax: 862.979.1200

MODIFICATION NOTES

SEE SHEET: _____

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MODIFICATION INSPECTION NOTES

| MI CHECKLIST | |
|---|--|
| CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR) | REPORT ITEM |
| X | PRE-CONSTRUCTION |
| X | MI CHECKLIST DRAWING |
| X | EOA APPROVED SHOP DRAWINGS |
| NA | FABRICATION INSPECTION |
| NA | FABRICATOR CERTIFIED WELD INSPECTION |
| X | MATERIAL TEST REPORT (MTR) |
| NA | FABRICATOR NDE INSPECTION |
| X | PACKING SLIPS |
| ADDITIONAL TESTING AND INSPECTIONS: | |
| | CONSTRUCTION |
| X | CONSTRUCTION INSPECTIONS |
| NA | CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS |
| X | ON SITE COLD GALVANIZING VERIFICATION |
| X | GC AS-BUILT DOCUMENTS |
| ADDITIONAL TESTING AND INSPECTIONS: | |
| | POST-CONSTRUCTION |
| X | MI INSPECTOR REDLINE OR RECORD DRAWING(S) |
| X | VZV PMI DOCUMENTS |
| X | PHOTOGRAPHS |
| ADDITIONAL TESTING AND INSPECTIONS: | |

NOTE: X DENOTES A DOCUMENT REQUIRED FOR THE MI REPORT
 NA DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE MI REPORT

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS COMPLETED AS SHOWN ON THE MODIFICATION DRAWINGS AND AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN. THE MI INSPECTOR TAKE A REVIEW OF THE MODIFICATION DESIGN. THE MI INSPECTOR TAKE A REVIEW OF THE MODIFICATION DESIGN. THE MI INSPECTOR TAKE A REVIEW OF THE MODIFICATION DESIGN.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR COORDINATE AND COMMUNICATE AS SOON AS A PURCHASE ORDER (PO) IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MI INSPECTOR

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS
- THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS
- THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENT AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS. IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE INSPECTIONS.
- WHEN POSSIBLE IT IS PREFERRED TO ALLOW THE FOUNDATION AND MI INSPECTIONS TO COMMENCE WITH ON-SITE VISIT.
- WHEN POSSIBLE IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MUST CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON-SITE.

CORRECTION OF FAILING MIs

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REBID/REPAIR PLAN.

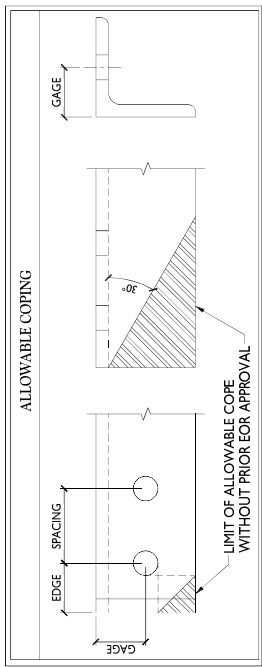
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

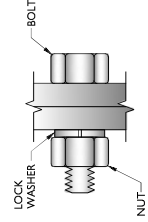
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION
- RAW MATERIALS
- PHOTOS OF ALL CRITICAL DETAILS
- FOUNDATION MODIFICATIONS
- FOUNDATION MODIFICATION
- BOLT INSTALLATION
- FINAL INSTALLED CONDITION
- SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
- FINAL IN-FIELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



| BOLT SCHEDULE (IN.) | | | | |
|---------------------|---------------|-----------------|-------------------|---------|
| BOLT DIAMETER | STANDARD HOLE | SHORT SLOT | MIN EDGE DISTANCE | SPACING |
| 1/2 | 9/16 | 9/16 x 1 1/16 | 7/8 | 1 1/2 |
| 5/8 | 1 1/16 | 1 1/16 x 7/8 | 1 1/8 | 1 7/8 |
| 3/4 | 1 3/16 | 1 3/16 x 1 | 1 1/4 | 2 1/4 |
| 7/8 | 1 5/16 | 1 5/16 x 1 1/8 | 1 1/2 | 2 5/8 |
| 1 | 1 1/16 | 1 1/16 x 1 5/16 | 1 3/4 | 3 |

| WORKABLE GAGES (IN.) | | |
|----------------------|-------|--|
| LEG | GAGE | |
| 4 | 2 1/2 | |
| 3 1/2 | 2 | |
| 3 | 1 3/4 | |
| 2 1/2 | 1 3/8 | |
| 2 | 1 1/8 | |



TYP. BOLT ASSEMBLY

- NOTES:**
- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE ASC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
 - THE DIMENSIONS PROVIDED ARE MINIMUM DIMENSIONS. ALL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE ASC MINIMUM REQUIREMENTS.
 - SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS.
 - MATCH EXISTING GAGES WHEN APPLICABLE. UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

MASER
 CONSULTING ENGINEERS
 1000 WEST 10TH AVENUE
 SUITE 100
 DENVER, CO 80202
 (303) 733-1100
 www.maser.com

Customer Loyalty through Client Satisfaction
 Offices Locations:

- NEW JERSEY
- NEW MEXICO
- NEW YORK
- PENNSYLVANIA
- FLORIDA
- GEORGIA
- MISSISSIPPI
- MISSOURI
- MINNESOTA
- NEBRASKA
- NORTH CAROLINA
- NORTH DAKOTA
- OHIO
- OKLAHOMA
- TEXAS
- UTAH
- VIRGINIA
- WISCONSIN
- WYOMING
- COLORADO

verizon

811
 CALL BEFORE YOU DIG
 PROTECT YOURSELF
 ALL UTILITIES SHOULD BE LOCATED PRIOR TO ANY EXCAVATION OR DRILLING. CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG.

811
 CALL BEFORE YOU DIG
 PROTECT YOURSELF
 ALL UTILITIES SHOULD BE LOCATED PRIOR TO ANY EXCAVATION OR DRILLING. CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG.

| DATE | AS SHOWN | REVISION | DATE |
|------|----------|----------|------|
| | | 307744A | |

Digitally signed by Tech
 Date: 2024.06.10 10:00:00 -0400
 CT, CO & WY (PC:2024)

IF THE ALLOCATION OF LAYERS AND PERSONNEL IS NOT AS SHOWN IN THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO VERIFY THIS DOCUMENT.

SITE NAME:
 MONTVILLE 2 CT
 469183

45 FARGO RD
 MONTVILLE, CT 06385
 NEW LONDON COUNTY

MASER
 CONSULTING ENGINEERS
 1000 WEST 10TH AVENUE
 SUITE 100
 DENVER, CO 80202
 (303) 733-1100
 www.maser.com

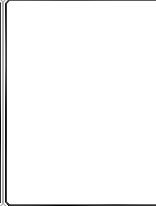
MODIFICATION NOTES

S-3

MASER
 CONSULTING ENGINEERS
 1000 WEST MAIN STREET
 SUITE 200
 WESTPORT, CT 06880
 www.maser.com
 Customer Loyalty through Client Satisfaction
 www.maser.com Offices Locations

- NEW JERSEY
- NEW MEXICO
- NORTH CAROLINA
- PENNSYLVANIA
- TEXAS
- VIRGINIA
- GEORGIA
- FLORIDA
- COLORADO
- NORTH CAROLINA
- TENNESSEE
- ARIZONA

© 2021 Maser Consulting Engineers, Inc. All rights reserved. This drawing is the property of Maser Consulting Engineers, Inc. and is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Maser Consulting Engineers, Inc. The information contained herein is confidential and intended solely for the use of the individual customer named herein. The information contained herein is not to be distributed, copied, or used for any other purpose without the prior written permission of Maser Consulting Engineers, Inc.



811
 PROTECT YOURSELF
 ALL UTILITIES SHOULD BE LOCATED PRIOR TO ANY EXCAVATION OR DRILLING TO PREVENT DAMAGE TO UNDERGROUND UTILITIES.
 Call before you dig
 1-800-4-A-DAWG
 www.callbeforeyoudig.com

| REV | DATE | DESCRIPTION | BY | CHK |
|-----|------|-------------------------|----|-----|
| 0 | | ISSUED FOR CONSTRUCTION | | |
| 1 | | ISSUED FOR PERMITS | | |

Digitally signed by Tech
 Maser Consulting Engineers, Inc.
 Date: 2023.04.10 10:04:00 -0400
 CT, C.O.A.# PC200291

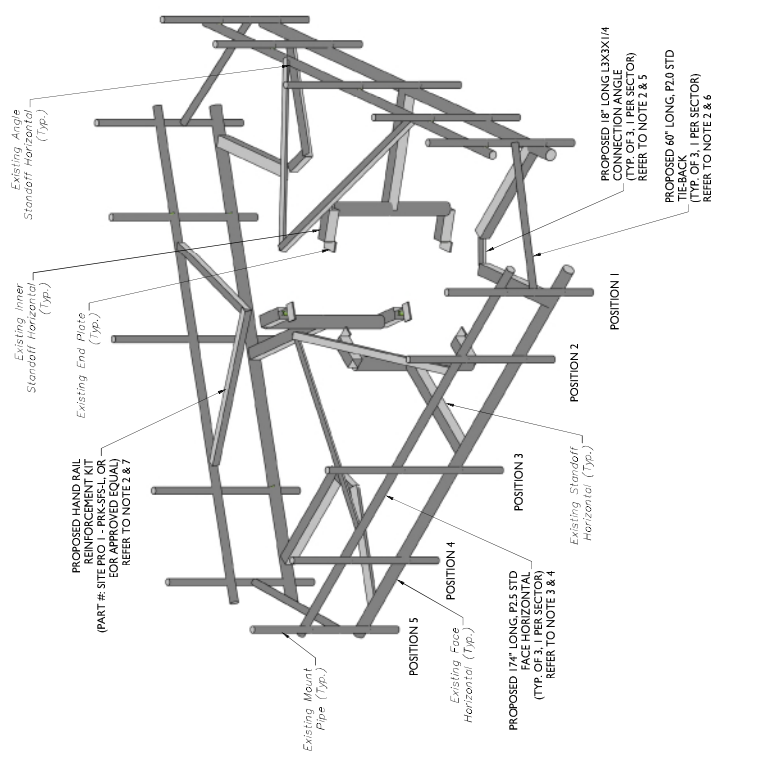
IF THE SIGNATURE OF ANY PERSON UNLESS THE EFFECTING UNDER THE DIRECTION OF THE ENGINEER, TO SIGN THIS DOCUMENT.

SITE NAME:
 MONTVILLE 2 CT
 469183
 45 FARGO RD
 MONTVILLE, CT 06385
 NEW LONDON COUNTY

PROJ. #:
 2023-04-10-000001
 Phone: 861.979.8412
 Fax: 861.972.1100

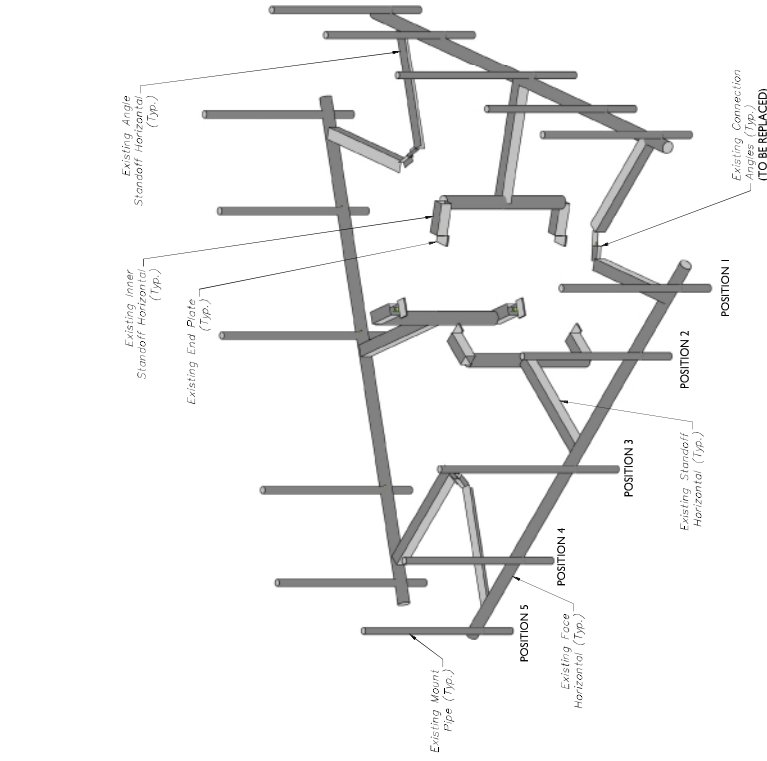
MODIFICATION DETAILS

S-4



2 PROPOSED T-ARM ISOMETRIC VIEW
 SCALE: N.T.S.

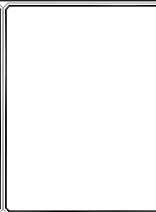
- MODIFICATION NOTES:**
1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
 2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET S-2.
 3. RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
 4. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
 5. CONNECT NEW CONNECTION ANGLE WITH (1) 1/2" DIA. A325N BOLT AT EACH CONNECTION POINT. REFER TO DETAIL 3 ON S-5.
 6. CONNECT TIE BACK TO POSITION 1 MOUNT PIPE USING CROSSOVER PLATES (PART#: VZWSMART-MSK1). CONNECT OTHER END OF TIE BACK TO ADJACENT SECTOR POSITION 5 MOUNT PIPE UTILIZING CROSSOVER PLATES (PART#: VZWSMART-MSK1).
 7. CONTRACTOR TO RELOCATE TOWER MOUNTED OVP UNITS AS NECESSARY FOR INSTALLATION OF NEW BRACING KITS.



1 EXISTING T-ARM ISOMETRIC VIEW
 SCALE: N.T.S.

- STRUCTURAL NOTES:**
1. PER THE MOUNT MAPPING COMPLETED BY HUDSON DESIGN GROUP, LLC ON 2/9/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (171'-0") ARE IN GOOD CONDITION MASER DOES NOT WARRANT THIS INFORMATION.
 2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE CLIMBING FACILITY. SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE, TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MASER
CONSULTING ENGINEERS
INCORPORATED
Customer: Loyalty through Client Satisfaction
www.maser.com Offices: 10
NEW JERSEY
NEW MEXICO
NEW YORK
OHIO
PENNSYLVANIA
FLORIDA
NORTH CAROLINA
Tennessee
COLORADO



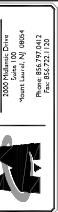
PROTECT YOURSELF
ALL UTILITIES SHOULD BE LOCATED PRIOR TO ANY EXCAVATION OR DRILLING. CALL 811 AT LEAST 48 HOURS BEFORE ANY EXCAVATION OR DRILLING. VISIT WWW.CALL811.COM FOR MORE INFORMATION.
Call before you dig
811
FOR YOUR STATE VISIT WWW.CALL811.COM

| REV | DATE | DESCRIPTION | BY | CHK |
|-----|------|-------------|----|-----|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Digitally signed by Tech
Date: 2023.04.15 09:04:01
CT, C.O.A. # PC200291

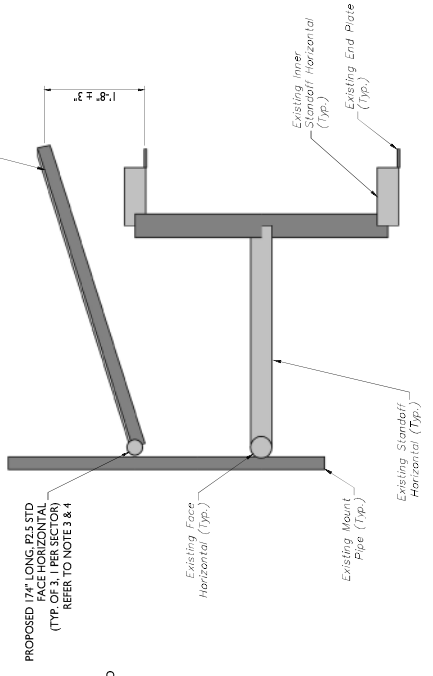
PLEASE REVIEW FOR CLARITY AND ACCURACY.
UNLESS THEY AFFECT UNDER THE DIRECTION
OF THE ENGINEER, THIS DOCUMENT
REQUIRES NO ACTION BY THE CONTRACTOR.

SITE NAME:
MONTVILLE 2 CT
469183
45 FARGO RD
MONTVILLE, CT 06385
NEW LONDON COUNTY



MODIFICATION DETAILS

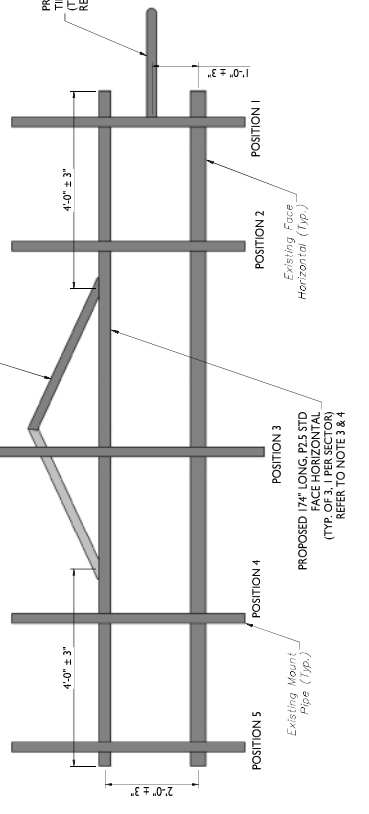
PROPOSED HAND RAIL
REINFORCEMENT KIT
(PART # SITE PRO 1 - PRK-SFSL, OR
EOR APPROVED EQUAL)
REFER TO NOTE 2 & 7



PROPOSED 17" LONG, P2.5 STD
FACE HORIZONTAL
(TYP. OF 3, 1 PER SECTOR)
REFER TO NOTE 3 & 4

PROPOSED 60" LONG, P1.0 STD
FACE HORIZONTAL
(TYP. OF 3, 1 PER SECTOR)
REFER TO NOTE 2 & 6

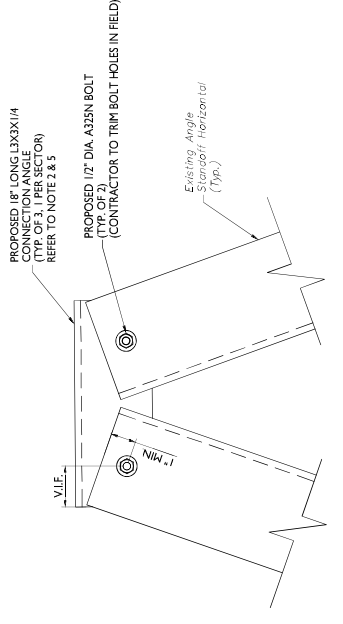
PROPOSED HAND RAIL
REINFORCEMENT KIT
(PART # SITE PRO 1 - PRK-SFSL, OR
EOR APPROVED EQUAL)
REFER TO NOTE 2 & 7



PROPOSED 17" LONG, P2.5 STD
FACE HORIZONTAL
(TYP. OF 3, 1 PER SECTOR)
REFER TO NOTE 3 & 4

1 PROPOSED SIDE ELEVATION (TYP. ALL SECTORS)
SCALE: N.T.S.

2 PROPOSED SIDE ELEVATION (TYP. ALL SECTORS)
SCALE: N.T.S.



PROPOSED 18" LONG, 1/2" DIA.
CONNECTION ANGLE
(TYP. OF 3, 1 PER SECTOR)
REFER TO NOTE 1 & 5

PROPOSED 1/2" DIA. A325N BOLT
(CONTRACTOR TO TRIM BOLT HOLES IN FIELD)

3 ANGLE CONNECTION DETAIL - PLAN VIEW
SCALE: N.T.S.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
4. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
5. CONNECT NEW CONNECTION ANGLE WITH (1) 1/2" DIA. A325N BOLT AT EACH CONNECTION POINT. REFER TO DETAIL 3 ON THIS PAGE.
6. CONNECT TIE BACK TO POSITION 1 MOUNT PIPE USING CROSSOVER PLATES (PART #: VZWSMART-MSK1). CONNECT OTHER END OF TIE BACK TO ADJACENT SECTOR POSITION 5 MOUNT PIPE UTILIZING CROSSOVER PLATES (PART #: VZWSMART-MSK1).
7. CONTRACTOR TO RELOCATE TOWER MOUNTED OVP UNITS AS NECESSARY FOR INSTALLATION OF NEW BRACING KITS.

MASER
CONSULTING CONNECTICUT
www.maser.com
Customer: Loyalty through Client Satisfaction
www.maser.com Offices: Connecticut

- NEW JERSEY
- NEW MEXICO
- NORTH CAROLINA
- NORTH DAKOTA
- PENNSYLVANIA
- TEXAS
- FLORIDA
- GEORGIA
- ILLINOIS
- INDIANA
- KANSAS
- MICHIGAN
- MINNESOTA
- MISSOURI
- NEBRASKA
- NEVADA
- OHIO
- OKLAHOMA
- SOUTH CAROLINA
- TENNESSEE
- VIRGINIA
- WISCONSIN
- COLORADO

811
Call before you dig
www.callbeforeyoudig.com



| REV# | DATE | DESCRIPTION | BY | APPROVED BY |
|------|------|-------------|----|-------------|
| | | | | |

PROTECT YOURSELF
ALL VISITS MUST BE BY APPOINTMENT
FOR VISITS IN THE STATE OF CONNECTICUT
CALL 860.261.1000
www.maser.com

| PROJECT | AS SHOWN | PERMITTED |
|---------|----------|-----------|
| | | |

Digitally signed by Tech
Mason, DN: cn=Mason, o=Maser
Date: 2023.10.13 15:06:04-0400
CT, C=US, E=PC200231

IF A SIGNATURE OF ANY PERSON
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF AN AUTHORIZED REPRESENTATIVE OF MASA
REGISTERED TO SIGN THIS DOCUMENT

SITE NAME:
MONTVILLE 2 CT
469183
45 FARGO RD
MONTVILLE, CT 06385
NEW LONDON COUNTY

MASER
CONSULTING
1000 Main Street
Newtown, CT 06456
Phone: 860.261.1000
Fax: 860.261.1100

MOUNT PHOTOS
S-6



MOUNT PHOTO 2



MOUNT PHOTO 4



MOUNT PHOTO 1

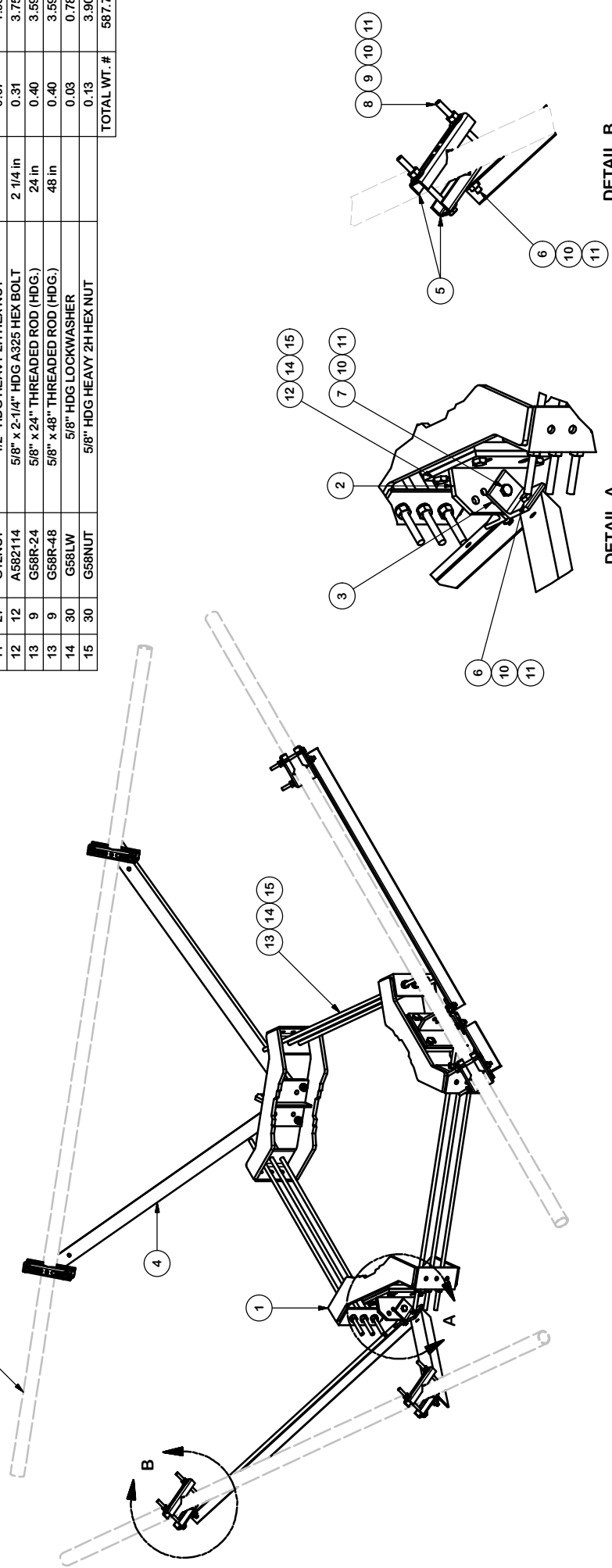


MOUNT PHOTO 3

PARTS LIST

| ITEM | QTY | PART NO. | PART DESCRIPTION | LENGTH | UNIT WT. | NET WT. |
|------|-----|----------|--|-----------|-------------|---------|
| 1 | 3 | X-LWRM | RING MOUNT WELDMENT | | 68.81 | 206.42 |
| 2 | 3 | X-TBW | T-BRACKET WELDMENT | | 13.60 | 40.80 |
| 3 | 6 | SHCM-T | CHAIN MOUNT TIGHTENER BRACKET | 3 in | 1.86 | 11.15 |
| 4 | 6 | X-232697 | TRPD-HD DIAGONAL ANGLE - SITE PRO 1 | 52 1/2 in | 14.35 | 86.08 |
| 5 | 12 | X-STU | STIFF ARM CHANNEL BRACKET | 8 1/2 in | 1.37 | 16.46 |
| 6 | 12 | G12112 | 1/2" x 1-1/2" HDG HEX BOLT GR5 | 1/2 in | 0.15 | 1.77 |
| 7 | 3 | G12212 | 1/2" x 2-1/2" HDG HEX BOLT GR5 | 2 1/2 in | 0.20 | 0.61 |
| 8 | 12 | G12065 | 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD | 6 1/2 in | 0.41 | 4.91 |
| 9 | 24 | G12FW | 1/2" HDG USS FLATWASHER | 3/32 in | 0.03 | 0.82 |
| 10 | 27 | G12LW | 1/2" HDG LOCKWASHER | 1/8 in | 0.01 | 0.38 |
| 11 | 27 | G12NUT | 1/2" HDG HEAVY 2H HEX NUT | 1.93 | 0.07 | 1.93 |
| 12 | 12 | A582114 | 5/8" x 2-1/4" HDG A325 HEX BOLT | 2 1/4 in | 0.31 | 3.75 |
| 13 | 9 | G58R-24 | 5/8" x 24" THREADED ROD (HDG.) | 24 in | 0.40 | 3.59 |
| 13 | 9 | G58R-48 | 5/8" x 48" THREADED ROD (HDG.) | 48 in | 0.40 | 3.59 |
| 14 | 30 | G58LW | 5/8" HDG LOCKWASHER | | 0.03 | 0.78 |
| 15 | 30 | G58NUT | 5/8" HDG HEAVY 2H HEX NUT | | 0.13 | 3.90 |
| | | | | | TOTAL WT. # | 567.71 |

EXISTING HANDRAIL SHOWN FOR CLAIRITY



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

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

DESCRIPTION

HANDRAIL REINFORCEMENT KIT

| | | | | | | |
|---------|-----|----------|------|-----------|---------------|-----------|
| CPD NO. | SP1 | DRAWN BY | CSL3 | 2/23/2017 | ENG. APPROVAL | 3RD PARTY |
| CLASS | 81 | SUB | 02 | SHOP | CHECKED BY | BMC |
| | | | | DATE | 3/16/2017 | |

Locations:

- New York, NY
- Atlanta, GA
- Los Angeles, CA
- Plymouth, IN
- Rock Hill, SC
- Dallas, TX



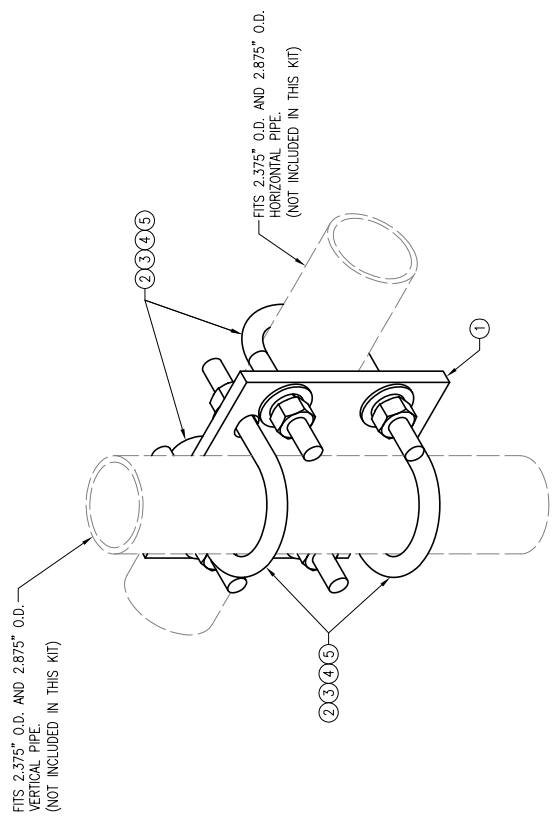
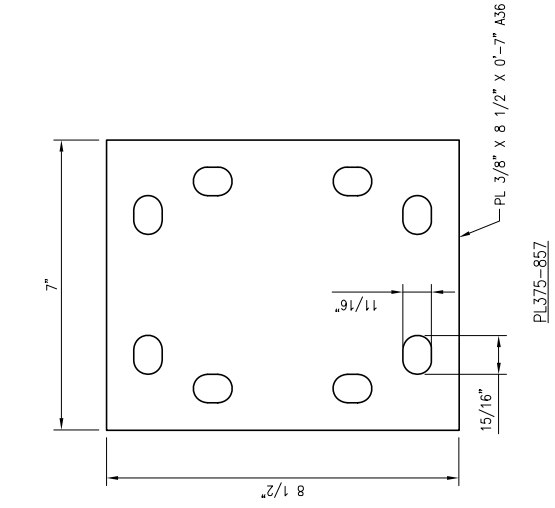
Engineering
 Support Team:
 1-888-752-7446

| | |
|----------|---------|
| PAGE | 1 OF 3 |
| PART NO. | PRK-SFS |
| DWG. NO. | PRK-SFS |

| | | | | | |
|--------------------------|---|---|-----|----|------------|
| REV | A | CHANGED MAX. DIA. FOR HANDRAIL CONNECTION | SP1 | BC | 10/23/2017 |
| DESCRIPTION OF REVISIONS | | | CPD | BY | DATE |
| REVISION HISTORY | | | | | |

| | |
|---------------|-----------------|
| DRWN BY: H.R. | CHECKED BY: HMA |
| REV | BY DATE |
| 1 | J.R. 05/09/20 |
| 2 | |
| 3 | |
| 4 | |
| 5 | |

| | |
|---------------|----------------------------------|
| SHEET TITLE: | VZWSMART-MSK1 CROSSOVER PLATE |
| SHEET NUMBER: | REV #: 0 |



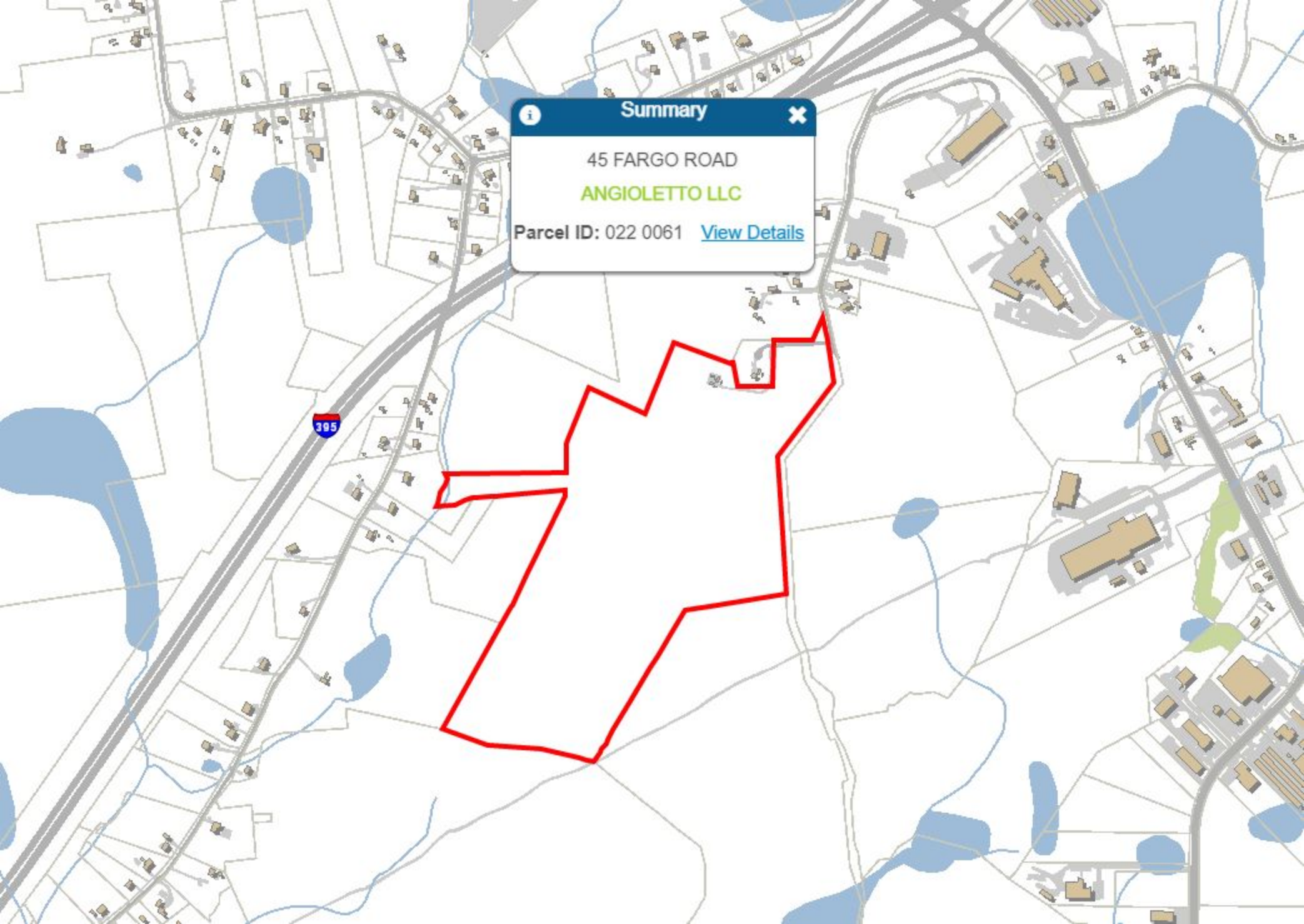
| VZWSMART-MSK1 (CROSSOVER PLATE) | | | | | | |
|---------------------------------|------|------------------|--|---------|---------------|----|
| ITEM NO. | QTY. | PART NO. | DESCRIPTION | SHEET # | WT | |
| 1 | 1 | PL375-85Z | PL 3/8" X 8 1/2" X 0'-7" A36 | MSK1-F1 | 6 | |
| 2 | 4 | MS92-625-300-500 | RU-BOLT 5/8" X 3" LW. X 5" LL. A36 (OR EQUIV.) | RBC-1 | 5 | |
| 3 | 8 | FW-625 | 5/8" HDG USS FLAT WASHER | --- | 1 | |
| 4 | 8 | LW-625 | 5/8" HDG LOCK WASHER | --- | 0 | |
| 5 | 8 | NUT-625 | 5/8" HDG HEX NUT | --- | 1 | |
| | | | | | GALVANIZED WT | 14 |

NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

ATTACHMENT 5

Summary ✕

45 FARGO ROAD
ANGIOLETTO LLC
Parcel ID: 022 0061 [View Details](#)





WATERFORD,CT

45 FARGO ROAD

Location

45 FARGO ROAD

Mblu

71/ / 2307/ /

Acct#

00201800

Owner

ANGIOLETTO LLC

Assessment

\$62,740

Appraisal

\$640,830

PID

2307

Building Count

1

Current Value

Appraisal

| Valuation Year | Improvements | Land | Total |
|----------------|--------------|-----------|-----------|
| 2017 | \$3,600 | \$637,230 | \$640,830 |

Assessment

| Valuation Year | Improvements | Land | Total |
|----------------|--------------|----------|----------|
| 2017 | \$2,520 | \$60,220 | \$62,740 |

Parcel Addresses

Additional Addresses

No Additional Addresses available for this parcel

Owner of Record

Owner ANGIOLETTO LLC

Co-Owner

Sale Price \$0

Certificate

Book & Page 1323/0097

Sale Date 08/09/2013

Ownership History

Ownership History

| Owner | Sale Price | Certificate | Book & Page | Sale Date |
|----------------------|------------|-------------|-------------|------------|
| ANGIOLETTO LLC | \$0 | | 1323/0097 | 08/09/2013 |
| ANGIOLETTA LLC | \$0 | | 1323/0095 | 08/09/2013 |
| CHIEKA RUDOLPH ETALS | \$0 | | 0413/0333 | 12/29/1992 |

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

Replacement Cost: \$0

Building Percent Good:

Building Attributes

| Field | Description |
|-------|--------------|
| Style | Conventional |
| Model | |

| | |
|------------------|--|
| Grade: | |
| Stories | |
| Occupancy | |
| Exterior Wall 1 | |
| Exterior Wall 2 | |
| Roof Structure | |
| Roof Cover | |
| Interior Wall 1 | |
| Interior Wall 2 | |
| Interior Flr 1 | |
| Interior Flr 2 | |
| Heat Fuel | |
| Heat Type: | |
| AC Percent | |
| Total Bedrooms: | |
| Full Bthrms: | |
| Half Baths: | |
| Extra Fixtures | |
| Total Rooms: | |
| Bath Style: | |
| Kitchen Style: | |
| Num Kitchens | |
| Fireplace(s) | |
| Extra Opening(s) | |
| Gas Fireplace(s) | |
| % Attic Fin | |
| LF Dormer | |

| | |
|---------------|--|
| Foundation | |
| Bsmt Gar(s) | |
| Bsmt % | |
| SF FBM | |
| SF Rec Rm | |
| Fin Bsmt Qual | |
| Bsmt Access | |
| Usrflid 300 | |
| Usrflid 301 | |

Building Photo



Building Layout



Building Sub-Areas (sq ft) Legend

No Data for Building Sub-Areas

Extra Features

Extra Features Legend

No Data for Extra Features

Land

Land Use

Use Code 109
Description Vacant W/ OB
Zone RU120
Neighborhood 300
Alt Land Appr No

Category

Land Line Valuation

Size (Acres) 74.03
Frontage 1112
Depth 0
Assessed Value \$60,220
Appraised Value \$637,230

Outbuildings

Outbuildings Legend

| Code | Description | Sub Code | Sub Description | Size | Value | Bldg # |
|------|-------------|----------|-----------------|-------------|---------|--------|
| SHD1 | Shed | MS | Masonry | 400.00 S.F. | \$3,600 | 1 |

Valuation History

Appraisal

| Valuation Year | Improvements | Land | Total |
|----------------|--------------|-----------|-----------|
| 2020 | \$3,600 | \$637,230 | \$640,830 |
| 4000 | \$3,600 | \$637,230 | \$640,830 |

Assessment

| Valuation Year | Improvements | Land | Total |
|-----------------------|---------------------|-------------|--------------|
| 2020 | \$2,520 | \$60,220 | \$62,740 |
| 4000 | \$2,520 | \$60,220 | \$62,740 |

(c) 2021 Vision Government Solutions, Inc. All rights reserved.

closecloseclose

ATTACHMENT 6



MONTVILLE 2
Certificate of Mailing — Firm

| | | | | | | |
|--|--|---|---|--|--|--|
| Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103 | TOTAL NO. of Pieces Listed by Sender | TOTAL NO. of Pieces Received at Post Office™ | Affix Stamp Here <i>Postmark with Date of Receipt.</i> | | | |
| | Postmaster, per (name of receiving employee) | | | | | |

| USPS® Tracking Number Firm-specific Identifier | Address (Name, Street, City, State, and ZIP Code™) | Postage | Fee | Special Handling | Parcel Airlift |
|---|--|---------|-----|------------------|----------------|
| 1. | Robert Brule, First Selectman Town of Waterford 15 Rope Ferry Road Waterford, CT 06385 | | | | |
| 2. | Abby Piersall, AICP, Planning Director Town of Waterford 15 Rope Ferry Road Waterford, CT 06385 | | | | |
| 3. | Angioletto LLC 45 Fargo Road Waterford, CT 06385 | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |



MONTVILLE 2
Certificate of Mailing — Firm

| | | | |
|--|---|---|--|
| Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103 | TOTAL NO. of Pieces Listed by Sender <div style="text-align: center; font-size: 2em;">3</div> | TOTAL NO. of Pieces Received at Post Office™ <div style="text-align: center; font-size: 2em;">3</div> | Affix Stamp Here <i>Postmark with Date of Receipt.</i> <div style="text-align: right; color: red;"> </div> <div style="text-align: right; color: red;"> </div> <div style="text-align: right; color: red;"> ZIP 06103 041L12203337 </div> |
| | Postmaster, per (name of receiving employee) <div style="text-align: center; font-size: 2em;">V.P.</div> | | |

| USPS® Tracking Number Firm-specific Identifier | Address (Name, Street, City, State, and ZIP Code™) | Postage | Fee | Special Handling | Parcel Airlift |
|---|--|---------|-----|------------------|----------------|
| 1. | Robert Brule, First Selectman Town of Waterford 15 Rope Ferry Road Waterford, CT 06385 | | | | |
| 2. | Abby Piersall, AICP, Planning Director Town of Waterford 15 Rope Ferry Road Waterford, CT 06385 | | | | |
| 3. | Angioletto LLC 45 Fargo Road Waterford, CT 06385 | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |

