



STATE OF CONNECTICUT  
*CONNECTICUT SITING COUNCIL*

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**VIA ELECTRONIC MAIL**

November 16, 2021

John Coleman  
Project Manager  
Centerline Communications, LLC  
750 West Center Street, Suite 301  
West Bridgewater, MA 02379  
[jcoleman@clinellc.com](mailto:jcoleman@clinellc.com)

RE: **EM-VER-088-210819** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 0 (a/k/a 880), Andrew Mountain Road, Naugatuck, Connecticut.

Dear Mr. Coleman:

The Connecticut Siting Council (Council) is in receipt of your correspondence of November 9, 2021, submitted in response to the Council's October 4, 2021 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read "Melanie Bachman".

Melanie Bachman  
Executive Director

MAB/CMW/laf

**From:** John Coleman <jcoleman@clinellc.com>  
**Sent:** Tuesday, November 9, 2021 3:40 PM  
**To:** CSC-DL Siting Council <Siting.Council@ct.gov>  
**Cc:** Sharon Bateman <sbateman@clinellc.com>  
**Subject:** EM-VER-088-210819 / VZW Exempt Modification filing / Naugatuck CT (283423 / 13668711) / Naugatuck West CT / 469151 / Correction Filing

**EXTERNAL EMAIL:** This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

CDC – DL Siting Council,

Please find attached the electronic copy in response to the Incomplete Memo with the original filing for Verizon Wireless' Exempt Modification at its 0 (a/k/a 880) Andrew Mountain Road, Naugatuck, CT monopole tower facility Naugatuck West CT in Naugatuck.

Attached

- EM-VER-088-210819
- Corrections filing with requested documents

Should you need any further information concerning this request, please reach out to me at any time. I appreciate your consideration.

John Coleman



**John Coleman** | Project Manager  
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November 9, 2021

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

**RE: EM-VER-088-210819** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 0 (a/k/a 880) Andrew Mountain Road, Naugatuck, CT.

Dear Ms. Bachman,

In response to the Council's Incomplete Letter to modify an existing telecommunications facility dated October 4, 2021 for the afore mentioned site, please see the following attachments as outlined below per Councils request:

1. Original Facility Approval with Municipality, City of Hampton
2. Updated property card and GIS Map
3. Proof of mailing and delivery confirmation to Chief Elected Official: Mayor, Peter Hess III.
  - a. UPS Label: 1Z9Y45030300147212
  - b. Delivery Confirmation.
4. Proof of mailing and delivery confirmation to Zoning Official: Lori Rotella.
  - a. UPS Label: 1Z9Y45030309592224
  - b. Delivery Confirmation.
5. Proof of mailing and delivery confirmation to Property Owner: Franklin B Andrew Jr.
  - a. UPS Label: 1Z9Y45030308039235
  - b. Delivery Confirmation.
6. The Original Filing sent to the CSC on 8/13/2021 – Notice of Exempt Modification // Site: Naugatuck West CT (ATC: 283423) Cellco Partnership d/b/a/ Verizon Wireless.

This list completes the items listed in the afore mentioned Letter of Incompleteness. I appreciate your time and consideration.

Sincerely,

*John Coleman*

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John Coleman, Project Manager  
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DOCKET NO. 56

AN APPLICATION OF METRO MOBILE CTS OF : CONNECTICUT SITING  
NEW HAVEN, INC., FOR A CERTIFICATE OF :  
ENVIRONMENTAL COMPATIBILITY AND PUBLIC : COUNCIL  
NEED FOR THE CONSTRUCTION, MAINTENANCE, :  
AND OPERATION OF FACILITIES TO PROVIDE :  
CELLULAR SERVICE IN NEW HAVEN COUNTY. : April 14, 1986

F I N D I N G S O F F A C T

1. Metro Mobile CTS of New Haven, Inc. (Metro Mobile), in accordance with provisions of sections 16-50g to 16-50z of the Connecticut General Statutes (CGS), applied to the Connecticut Siting Council (Council) on October 30, 1985, for a certificate of environmental compatibility and public need (certificate) for the construction, maintenance, and operation of telecommunication towers and associated equipment buildings to provide Domestic Public Cellular Radio Telecommunication Service (cellular service) in the New Haven New England County Metropolitan Area (New Haven NECMA). (Record)
2. Cellular tower sites were proposed for the towns of Beacon Falls, Guilford, Hamden, Milford, Naugatuck, North Branford, Wallingford, West Haven, and Wolcott. (Metro Mobile 1, p. 1)
3. The application was accompanied by proof of service as required by section 16-501 of the CGS. (Record)
4. The fee as prescribed by section 16-50v-1 of the Regulations of State Agencies (RSA) accompanied the application. (Record)
5. Affidavits of newspaper notice as required by section 16-501 of the CGS were published by the applicant twice in the New Haven Journal Courier and twice in the Waterbury Republican. (Metro Mobile 1, p. 4)

6. The Council and its staff made an inspection of the proposed tower sites in the towns of Beacon Falls, Hamden, Milford, Naugatuck, West Haven, and Wolcott on January 13, 1986, and of the proposed tower sites in the towns of North Branford, Guilford, and Wallingford on February 6, 1986. (Record)
7. Pursuant to section 16-50m of the CGS, the Council, after giving due notice thereof, held public hearings on January 15, 1986, at 2:00 P.M. in the West Haven Town Hall in West Haven, and at 7:00 P.M. at the Laurel Ledge School in Beacon Falls; on February 6, 1986, at 7:00 P.M. in North Branford Intermediate School; on February 20, 1986, at 7:00 P.M. in Wallingford at the Moran Middle School, and on March 13, 1986, at 1:00 P.M. and 7:00 P.M. in Milford at the Milford Public Library. (Record)
8. The parties to the proceeding are the applicant and those persons and organizations whose names are listed in the Decision and Order which accompanies these Findings. (Record)
9. The following state agencies filed written comments with the Council pursuant to section 16-50j of the CGS: the Department of Environmental Protection (DEP), and the Council on Environmental Quality.
10. The Council took administrative notice of its record in Docket 44, which is the Southern New England Telephone Company (SNET) application for the New Haven NECMA. (Record)
11. Cellular service consists of small overlapping broadcast regions, two to ten miles in diameter, known as cells. Each cell is served by a transmitter limited by the Federal Communications Commission (FCC) to no more than 100 watts effective radiated power per

- channel. Each cell has a central switching point containing electronic apparatus uniting the cells into a system. Mobile units are limited to a maximum of seven watts of transmitted power by the FCC. (Metro Mobile 2, Q. 34, Exhibit 5; Metro Mobile 5, Q. 5; Metro Mobile 12, Q. 74; Docket 44, Finding 11)
12. For the purposes of cellular service construction permit applications, the FCC has defined a New England NECMA consisting of New Haven County. (Metro Mobile 1, p. 8; Docket 44, Finding 22)
  13. The FCC requires that a licensee serve at least 75% of its licensed service area within three years of obtaining an operating license or risk losing the license. The originally proposed Metro Mobile system would cover at least 90% of the New Haven NECMA. (Metro Mobile 1, pp. 8, 18; Docket 44, Finding 25)
  14. Cellular service is an improved mobile telephone service. To date, mobile telephone service has been regulated by the Connecticut Department of Public Utility Control (DPUC). In DPUC Docket No. 85-0716, the DPUC is considering regulations developed pursuant to Section 7 of Public Act No. 85-552 to determine the extent of state regulation of cellular service providers licensed by the FCC. Eventually, cellular service could replace the existing simplex mobile service. Cellular service has been classified by the FCC as a form of basic local exchange service, which would also be subject to DPUC regulation. (Metro Mobile 1, p. 26; Docket 44, Finding 26)
  15. The FCC has determined that a national public need exists to improve the present mobile telephone service, due to the current system's limited capacity, long waiting lists nationally, and poor

- quality service, which have created congested channels and long waiting times. (Metro Mobile 1, pp. 5, 11; Docket 44, Finding 29)
16. The FCC has established the technical standards for cellular service to insure the efficient use of the allotted frequency spectrum and to insure nationwide compatibility. (Metro Mobile 3, p. 67, Exhibit 8; Docket 44, Finding 36)
  17. The FCC has pre-empted the state's regulation of cellular service in three major areas: technical standards, market structure, and state certification prior to federal application for a construction permit. (Metro Mobile 3, Q. 67, Exhibit 8; Metro Mobile 2, Q. 34, Exhibit 5; Docket 44, Finding 37)
  18. Applicants for FCC cellular system authorizations are not required to demonstrate a public need for cellular service, because the FCC has exercised its primary jurisdiction to determine that there is a need for cellular service generally and to encourage the development of cellular service nationwide. (Metro Mobile 1, p. 7)
  19. The FCC has reserved to the states jurisdiction with respect to charges, classifications, practices, services, facilities, and regulation of service by licensed carriers. (Docket 44, Finding 38)
  20. According to FCC rules, there must be two licenses awarded in each NECA to provide competition. One is awarded to a wireline company, the other to a non-wireline applicant. (Metro Mobile 1, pp. 6, 11; Docket 44, Finding 39)
  21. The FCC defines a Reliable Service Contour as an area having a signal quality greater than or equal to 39 dbu. The FCC requires



75% coverage of the cellular geographic service area. (Metro Mobile 2, Q, 30; Metro Mobile 3, Q. 45, Exhibit 1; Docket 44, Finding 40)

22. Cell-splitting is a technique for accommodating the future growth of demand for cellular mobile service. It consists of adding a cell between existing cells, thus increasing the number of calls which can be handled in an area. Cell-splitting can be achieved by the addition of cell sites containing lower power omnidirectional antennas, the conversion to directional antennas, or both. (Metro Mobile 1, pp. 19-20; Docket 44, Finding 41)
23. Each new cell achieved by cell-splitting would require additional towers and/or associated equipment. (Docket 44, Finding 42)
24. An omnidirectional antenna is designed to radiate in 360 degrees, but may be blocked by part of the tower itself, thus causing an effect on its radio pattern known as shadowing. Terrain and buildings can also cause shadowing. (Docket 44, Finding 43)
25. Shadowing in urban areas can be reduced by overlapping coverage from two cell sites. Such overlapping of coverage fills in holes from shadowing and increases the possible number of simultaneous conversations. (Docket 44, Finding 44)
26. The potential for intermodulation interference and shadowing may be significant when antennas broadcasting independent radio signals are located on the same tower. (Docket 44, Finding 45)
27. Metro Mobile is a wholly-owned subsidiary of Metro Mobile CTS, Inc., a corporation organized in the State of Delaware, with principal business offices at 110 East 59th Street, New York, New York. (Metro Mobile 1, p. 2)

28. Metro Mobile currently has cellular systems operational in the cities of Albuquerque and Tucson and expected to have systems in Phoenix and Charlotte on line in March, 1986. (Tr. 2/20/86, pp. 107-108)
29. Metro Mobile is authorized by the FCC to construct cell sites in the New Haven NECMA. The original non-wireline construction permit for the New Haven NECMA was issued by the FCC to the New Haven Cellular Company. Metro Mobile subsequently acquired 100% ownership of this company. Metro Mobile will seek FCC authorization to assign the construction permit to Metro Mobile. (Metro Mobile 1, pp. 2, 8, Exhibit F)
30. All of the proposed cell sites in this application differ from those in the original FCC authorization. None of the original cell sites were determined by Metro Mobile to be satisfactory or reasonably available. (Metro Mobile 2, Q. 30, Q. 34)
31. Contingent upon Council approval, Metro Mobile need only notify the FCC of a modified configuration of cell sites, and the FCC could then issue a new construction authorization for the cell sites. (Metro Mobile 2, Q. 34)
32. The FCC has authorized Metro Mobile to construct cellular systems in the New Haven, Hartford, and Bridgeport NECMA's in Connecticut as well as the Springfield NECMA in Massachusetts. (Metro Mobile 1, p. 7)
33. The proposed New Haven NECMA would operate in conjunction with the planned Hartford, Bridgeport, and Springfield NECMA's. A mobile telephone switching office would be located in Norwalk, Connecticut, to serve as the central control for the system and for

interconnection with SNETS's public switched landline telephone network. A second Mobile telephone switching office is planned for the Hartford-Springfield area. (Metro Mobile 1, p. 17)

34. The process Metro Mobile used in its search for potential cellular tower sites began with the development of a cellular grid for the area to be served. This grid consists of a continuous hexagonal pattern with the center of each hexagon representing a primary cell site location. Where necessary due to uneven terrain, secondary cell sites were considered. (Metro Mobile 1, pp. 22-23)
35. The cellular grid is placed over a state map to determine equal cell spacings. Primary and secondary site designations indicate the degree of coarseness of the grid and have no bearing on their function in the system. (Tr. 2/6/86, p. 79)
36. Primary cell site search areas have a radius of 1.2 miles, and secondary search areas have a 0.6 mile radius. (Metro Mobile 1, pp. 22-23)
37. Metro Mobile based its site selections on such factors as the location of existing towers; elevation; impacts on residential, historic, scenic, or environmentally sensitive areas; possible interference from airports, transmission lines, or broadcast facilities; ease of access; and utility service. Computer modeling was used in the process of site selection. (Metro Mobile 1, pp. 22-23; Metro Mobile 2, Q. 12)
38. The system as originally designed included a 10-20% overlap between cells to assure proper coverage. (Metro Mobile 1, pp. 22-23)

39. Each typical proposed cell site would contain a tower and an associated equipment building. Towers would be of the Rohn SSV heavy series self-supporting lattice type, with surfaces of weathering galvanized steel. (Metro Mobile 1, pp. 9-10)
40. A typical 180' tower as originally proposed would be 22' 9 3/8" wide at the base, tapering to 4' 6 1/4" in width at the top. A 160' tower would be expected to be 4' 6 1/4" at the top and 2' narrower at the base. (Tr. 2/20/86, pp. 102-104; Metro Mobile LF 18)
41. Monopole structures could be used to provide cellular service but would not accommodate future expansion or tower sharing. (Tr. 3/13/86, pp. 251-252; Metro Mobile 2, Q. 18, Q. 25)
42. Metro Mobile approached SNET regarding the possible sharing of SNET's existing cellular and telecommunications towers. SNET would only lease such tower space on condition of owning any cellular equipment used and locating Metro Mobile's antennas at some level below SNET's antenna structure. Therefore Metro Mobile decided not to enter into such arrangements. (Metro Mobile 2, Q. 36)
43. Metro Mobile has offered the use of towers it constructs for use at no charge by local police and fire departments. (Tr. 3/13/86, p. 252)
44. Attached to the top of the proposed towers would be two 11' whip type antennas with 2' mountings on 3' sidearms, thus adding 13' to the total height of the tower structures. Three dual 8' reflectorized antennas with 2' mountings on 6' sidearms would be mounted below the top of the tower. The fiberglass whip antennas would be 2 3/4" in diameter at the base, tapering to 1" in diameter at the top. The whip antennas would be omnidirectional transmit antennas,

while the reflectorized antennas would be receive-only antennas.

(Metro Mobile 1, p. 10; Metro Mobile 2, Q. 32; Tr. 3/13/86, p. 254)

45. With the antennas in place, the proposed towers are designed for Zone A wind loading with  $\frac{1}{2}$ " radial icing under Electronic Industries Association (EIA) Standard RS-222-C. All of Connecticut is within EIA wind loading Zone A, requiring towers to withstand 30 P.S.F. wind pressure and average extreme velocities of 87 mph at a minimum. (Metro Mobile 1, p. 10, p. 27; Metro Mobile 1, Exhibit P)
46. At the base of a typical proposed tower would be a single-story electronics building. The exact dimensions on these buildings may vary, but they would not exceed 350 S.F. at any proposed site. These buildings would house receiving, transmitting, switching, processing, performance, and climate control equipment and be a source of stand-by power. (Metro Mobile 2, pp. 1-2; Metro Mobile 1, pp. 10-11)
47. The proposed equipment buildings would be unmanned. Typical tower site buildings would have a 12' wide crushed stone driveway and be surrounded by an 8' chain link fence with 12" security wire on top of the fence. Metro Mobile would plant evergreens to screen the buildings at the proposed sites as necessary. (Metro Mobile 1, p. 11)
48. Underground installation of utility service is not planned at any proposed site. (Metro Mobile 2, Q. 9)
49. The proposed towers at all cell sites would include at least 100 S.F. of reserve load capacity. Metro Mobile plans this reserve

capacity for growth and for future changes in system configuration and cellular equipment. Such extra loading capacity could also be used to accommodate non-cellular uses. Elimination of this loading capacity would reduce the width of a typical tower by two feet on a side, but would not reduce tower height. (Metro Mobile 2, Q. 20; Metro Mobile 3, Q. 57; Metro Mobile LF 16)

50. The FCC requires cellular frequency coordination to avoid interference. With correct frequency selection, antenna placement, shielding, and filtering, no interference problems with the existing SNET system would be expected. (Metro Mobile 1, p. 18; Metro Mobile 2, Q. 35)
51. No interference problem with existing radio or television signals would be expected, although it is possible. (Tr. 3/13/86, pp. 256-257)
52. No microwave uses or microwave transmitting dish antennas are planned for the proposed Metro Mobile cell system. (Tr. 2/6/86, pp. 51-52; p. 76)
53. The United States safety standard for the proposed frequency range of 870-890 Mhz is  $2.9 \text{ mW/cm}^2$ , according to State of Connecticut and American National Standards Institute standards. The electromagnetic radio frequency power densities at all proposed sites would be several orders of magnitude below these standards. (Metro Mobile 1, Exhibit Q.)
54. The proposed Beacon Falls tower site is a 100'x100' leased parcel owned by the Naugatuck Valley Beagle Club and located on Rimmon Hill Road. The proposed site is zoned R-2 Residential and is 440' above mean sea level (AMSL). (Metro Mobile 1, Exhibit 1, pp. 4-5)

55. The proposed tower would be 160' with a 13' antenna for a total structure height of 173'. The base of the proposed tower would be 35' east of Rimmon Hill Road. A 15'x22' electronics building would be located within the parcel, which would be surrounded by an 8' security fence. (Metro Mobile 1, Exhibit 1, p. 13; Metro Mobile 2, Q. 37; Metro Mobile 20, Q. 23)
56. The proposed site contains sparse vegetation and is located on the crest of a ridge with a bedrock surface. (Metro Mobile 1, pp. 14-15)
57. The proposed site is located directly across Rimmon Hill Road from 325 acres of Town of Beacon Falls park property, which the town maintains as open space. The proposed tower might limit the options of the Town in its planning for future uses of its property. (Town of Beacon Falls letter, December 17, 1985)
58. Metro Mobile does not know what future uses the Town of Beacon Falls has planned for its park property on Rimmon Hill Road. No representative of Metro Mobile contacted Town of Beacon Falls officials regarding the future use of the Town Park property. (Tr. 1/15/86, 7:00 P.M., pp. 109-110; D'Amico 1)
59. The upper portion of the proposed Beacon Falls tower would be visible from the intersection of Rimmon Hill Road and West Road, as well as from points along Rimmon Hill Road south of the proposed site. The top of the proposed tower would be visible from Briarwood Drive. About 70% to 80% of the tower would be visible from points along West Road west of Rimmon Hill Road. The upper half of the tower would be visible from the area of town property

located around Carrington Pond. (Metro Mobile 20, Exhibit 1; Tr. 3/13/86 pp. 305-308)

60. The proposed site could be relocated 100' further to the east of the presently planned site, but might then require a 180' tower because of a steep slope. The proposed site could be located as much as 400' in a northwesterly direction along Rimmon Hill Road and easterly 100' without an unacceptable loss of elevation, but could result in more visibility from residences. The same would be true of a 200' southerly relocation. (Tr. 3/13/86, p. 8; Metro Mobile 17, Q. 83)
61. Metro Mobile investigated and rejected several other potential tower sites in the Beacon Falls area. An industrial park on Silvermine Road in Seymour was rejected because of poor signal coverage, especially along Route 8, and a lack of available property at the park. The Suwinski property adjacent to the Silvermine Industrial Park was also rejected because of poor signal coverage. A Valley Cable Vision tower in Seymour was rejected due to improper interface with adjacent cells. The William Weed Farm on Rimmon Hill Road was rejected due to excessive distance from the road, a lack of screening, and difficult access. (Metro Mobile 1, Exhibit 1, p. 23; Metro Mobile 19, Q. 97; Tr. 3/13/86, pp. 293-294; Bialecki 5)
62. A Silvermine Road Industrial Park site, using a 180' tower, would leave a gap in coverage of approximately two miles along Route 8 north towards Naugatuck. The coverage from this site would also jeopardize coverage to the northwest along portions of Route 67 and Route 188. (Tr. 3/13/86, 7:00 P.M., pp. 292-294)



63. Sites in Beacon Falls on Wire Hill Road and along an electric transmission line near Naugatuck State Forest, at 550' and 650' elevations respectively, were studied for signal coverage. Coverage at the latter site appeared equivalent to that from the proposed site. No further analysis of these alternate sites was conducted. (Metro Mobile 4, Q. 15, Exhibit 3; Metro Mobile 3, Q. 60, Exhibit 5; Tr. 1/15/86, p. 102; Tr. 3/13/86, p. 232)
64. Metro Mobile proposed an alternate Beacon Falls site at 339 Rimmon Hill Road on property owned by John McGeever. This 100'x100' leased parcel would be 170' west of Rimmon Hill Road. The site is presently in agricultural use. A 15'x21' electronics building would be located on the parcel, which would be surrounded by an 8' security fence. (Metro Mobile 1, Exhibit 2, pp. 5, 14)
65. The visibility of a tower at the alternate McGeever site would be substantially greater because of considerable residential development in the surrounding area. This alternate site is zoned R-2 Residential and is 420' AMSL. The proposed tower height is 160'. Underground installation of utilities at this alternate site would increase site development costs substantially. (Metro Mobile 1, Exhibit 2, pp. 6-8; Metro Mobile 20, Q. 23)
66. The power densities for the proposed and alternate Beacon Falls sites would be  $0.0034664 \text{ mW/cm}^2$  for eight channels at 100 watts at the base of the proposed tower, based on conservative assumptions. (Metro Mobile 1, Exhibit Q. p. 2)
67. The proposed Guilford site is a 70'x70' leased parcel located at the south end of Manor Road within an apple orchard owned by B.W. Bishop and Sons, Inc. The proposed site is near a 65' water tank,

- and is zoned Residential. (Metro Mobile 1, Exhibit 3, pp. 7, 18; Metro Mobile 21, Q. 101)
68. Elevation at the proposed Guilford site is 265' AMSL. (Metro Mobile 1, Exhibit 3, p. 10)
69. The proposed Guilford site was located outside of the search area to maximize coverage easterly along Route I-95. This eliminates the need for building another tower along the New Haven NECMA border. (Metro Mobile 3, Q. 59; Tr. 2/6/86, p. 73)
70. On March 10, 1986, Metro Mobile amended its application with a revised Guilford site plan. The northern boundary of the proposed tower site has been relocated 250' further south from nearby residences, and 95' further to the west than originally proposed. Metro Mobile evaluated its coverage from this proposed site, and determined that a shorter tower could provide acceptable coverage. Metro Mobile therefore reduced the height of its proposed Guilford tower from 180' to 140', thus resulting in an overall structure of 153' including antennas. (Metro Mobile 21; Metro Mobile 19, Q. 101)
71. A second water tower, approximately the same height and size as the existing water tower, is planned but not yet scheduled. This water tower may be constructed directly north of the existing water tower, and west of the proposed cellular tower site. (Metro Mobile 12, Q. 100; Tr. 3/13/86, pp. 261-262)
72. Property immediately to the west of the existing water tower is scheduled for future residential development. If the proposed cellular tower site were moved further in that direction, it would

put these homes within the drop-zone radius of the proposed tower.  
(Tr. 3/13/86, pp. 261-263)

73. The proposed 140' Guilford tower would not be visible from the intersection of Shore Drive and Woodland Road, the intersection of Shore Drive and Long Hill Road, the intersection of Hahn Road and Long Hill Road, or from points southeast of the proposed site along the west side of Long Hill Road. The proposed tower would be visible from Long Hill Road at a point 1200' south of the intersection of Hahn Road and Long Hill Road. (Metro Mobile 19, Q. 23)
74. The power densities for the proposed Guilford site would be  $0.004333 \text{ mW/cm}^2$  for 10 channels at 100w at the base of the proposed tower, based on conservative assumptions. (Metro Mobile 1, Exhibit Q, p. 2)
75. A 15'x21' electronics building would be built north of the proposed Guilford tower within the leased parcel. The entire parcel would be surrounded by an eight foot security fence. Access to the proposed site would be from Manor Road. (Metro Mobile 21, Q. 101)
76. In Hamden Metro Mobile originally proposed to construct a new 180' tower on West Rock Ridge. On February 19, 1986, Metro Mobile revised its application to propose the shared use of an existing 250' tower owned by Henry M. Zachs. An engineering analysis of this tower indicates that with structural modifications it would be capable of supporting the proposed antennas. This existing tower presently supports 19 antennas from the 90' to 244' level. (Metro Mobile 17, Q. 79; Tr. 3/13/86, p. 9)

77. Metro Mobile would strengthen the existing tower at a cost of \$16,200 to support three dual reflectorized receive antennas at the 180' level of the tower, and two whip type transmit antennas at the 170' level. This proposed modification would maintain the present Zone C EIA standard RS-222-C rating for 50 PSF of wind loading with no radial icing, thus exceeding the Connecticut Zone A standard. (Metro Mobile 17, Q. 79)
78. Metro Mobile would construct a single story 15'x21' equipment building at the base of the existing tower, which is already fenced in. (Metro Mobile 17, Q. 79)
79. The site of the existing tower is 450' AMSL, zoned R-1, and contains an equipment building and five existing towers, ranging in height from 80' to 250'. The site is within West Rock Ridge State Park. The permission to build the existing 250' tower was granted in 1978 by the Hamden Zoning Board of Appeals. The Hamden Zoning Board of Appeals placed no restrictions on any future additions to this tower. (Metro Mobile 1, Exhibit 4, p. 14; Metro Mobile 3, Q. 55; Tr. 1/15/86, 2:00 P.M., p. 41; DEP letter of 1/6/86; Town of Hamden LF 1)
80. The DEP opposed the construction of a new tower on West Rock Ridge and asked the Council to consider the use of the existing tower as the most acceptable alternative. (DEP letter of 1/6/86)
81. The power densities at the proposed Hamden site would be 0.0051996 mW/cm<sup>2</sup> for 12 channels at 100w at the base of the existing tower, based on conservative assumptions. (Metro Mobile 1, Exhibit Q; Tr. 3/13/86, p. 265)

82. Metro Mobile did not investigate any other sites, including any of the tall buildings in New Haven, as an alternative to the proposed consolidation on the 250' existing tower in Hamden. (Tr. 3/13/86, pp. 276-277)
83. Cell splitting could be an alternative to the proposed Hamden cell site. Depending on cell site locations and coverages, cell splitting may allow the use of shorter towers, but as many as three cell sites and three towers might be necessary to provide the same coverage. (Metro Mobile 12, Q. 82)
84. The proposed Milford site is a 118'x180'x140' leased parcel located 900' east of Oronoque Road within an area zoned R-30 Residential. The owner of the proposed site is Clifford T. Guernsey. (Metro Mobile 1, Exhibit 5, pp. 1-3; Tr. 3/13/86, p. 214)
85. The proposed Milford site is 170' AMSL. Access would be from Oronoque Road via an existing farm road. (Metro Mobile 1, Exhibit 5, p. 6; p. 21)
86. Properties adjacent to the proposed Milford site are zoned residential. Milford zoning regulations restrict structures of the height proposed. (Tr. 3/13/86, pp. 170-175, p. 214)
87. The Federal Aviation Administration (FAA) has advised Metro Mobile that the overall structure height of the proposed Milford tower would be limited to 109', including antennas, pending further review. This would mean a tower height of 96'. (Metro Mobile 12, Q. 84; Tr. 3/13/86, pp. 9-10)

88. Because the actual tower height limitation has not been finally decided by the FAA, Metro Mobile has asked the Council for certification of a tower of up to 160' in height, subject to final FAA approval. (Tr. 3/13/86, pp. 9-10, p. 255)
89. If the proposed Milford tower were limited to a total height of 109', it would be visible from many of the homes on Oronoque Road. About half of the time, 50% or less of the tower would be visible. About 20%-30% of the tower would be visible from the entire length Yankee Hollow Road. About 10%-20% of the tower would be visible from 30% of West Rutland Road. (Tr. 3/13/86, pp. 257-258)
90. Metro Mobile considered and rejected several potential tower sites in the Milford area. At Christ the Redeemer Church property on Rutland Road, the applicant was unable to obtain a lease due to prior restrictions on church property. Metro Mobile was unable to negotiate a lease on DiTullio and Sons property located adjacent to the proposed site. The Johnson property adjacent to the proposed site had insufficient land available. (Metro Mobile 1, Exhibit 5, p. 22)
91. Power densities at the proposed Milford site would be 0.0051996 mW/cm<sup>2</sup> for 12 channels at 100w at the base of the proposed tower, based on conservative assumptions. (Metro Mobile 1, Exhibit Q)
92. The proposed Naugatuck site is a 100'x100' leased parcel owned by Franklin B. Andrew on Andrew Mountain. The proposed site, 870' AMSL, is zoned R-30 and located 700' east of Andrew Mountain Road. (Metro Mobile 1, Exhibit 6, pp. 4-7)
93. The proposed site would be located between two existing towers. One tower, 150' in height, is owned by Richard Morrissey and is

used for amateur radio. The other tower is 110' in height, owned by the lessor of the proposed site, and is inoperative. The proposed cellular tower should not interfere in any way with the amateur radio tower operation. Shared use with amateur radio operators could present access, liability, and compatibility problems. Use of either of these two existing towers by the applicant would not be feasible due to height and structural limitations. Metro Mobile would be willing to remove the existing 110' tower if given the permission of the owner. (Metro Mobile 2, Q. 39; Metro Mobile 12, Q. 87)

94. The proposed Naugatuck tower would be limited by the FAA to a height of 160', a 173' total structure height including antennas. Obstruction marking and lighting would also be required. (Metro Mobile 12, Q. 84; Tr. 3/13/86, p. 10)
95. A 15'x21' equipment building would be located on the proposed site, and the entire parcel would be surrounded by an 8' security fence. (Metro Mobile 1, Exhibit 6, p. 13)
96. The proposed Naugatuck tower would not be visible from the residential area north of the proposed site on Andrew Mountain Road, from the residential area southwest of the proposed site, or the residential area northwest of the proposed site. It would be visible from some houses along Andrew Mountain Road. (Metro Mobile 19, Q. 23)
97. Metro Mobile investigated and rejected several potential tower sites in the Naugatuck area. The WTX television tower in Prospect was rejected due to inadequate signal coverage. The WNVR

tower in Naugatuck was rejected due to low elevation and insufficient signal coverage. The Huntington Hill landfill was rejected because of poor signal coverage and the inability to reach a lease agreement. A location on Krodel Road in Naugatuck was rejected due to inadequate signal coverage and poor adjacent cell site interface. (Metro Mobile 1, Exhibit 6, p. 23)

98. Power densities at the proposed Naugatuck site would be  $0.0025998 \text{ mW/cm}^2$  for 6 channels at 100w at the base of the proposed tower, based on conservative assumptions. (Metro Mobile 1, Exhibit Q)
99. In North Branford, Metro Mobile proposed a 180' tower on a leased 70'x70' parcel owned by B.W. Bishop and Sons, Inc., 750' north of Route 17. This proposed site is zoned R-40 Residential, and is 410' AMSL. (Metro Mobile 1, Exhibit 7, pp. 1,5,8)
100. The nearest residence would be located 300' from the proposed North Branford site. This proposed tower could jeopardize the Flynn Pick Your Own Apples operation on adjacent property. There are approximately 500 homes in the vicinity of the proposed North Branford tower. (Metro Mobile 12, Q. 92; Town of North Branford, Exhibit 2; Tr. 2/6/86, pp. 151-152)
101. On March 5, 1986, Metro Mobile amended its application and reduced the height of the proposed Bishop's Orchard North Branford tower to 160'. (Metro Mobile 19, Q. 101)
102. On March 10, 1986, Metro Mobile amended its application and proposed an alternate site on 83 East Reeds Gap Road, North Branford, on property owned by Ronald B. Liska. This alternate site is a 70'x70' leased parcel located 1 mile south of Route 17. (Metro Mobile 19, Q. 101; Metro Mobile 22, Exhibit 7A, pp. 1-3)



103. Metro Mobile would construct a 160' tower, totaling 173' with antennas, on the alternate Liska site, which has an elevation of 590' AMSL. This alternate site is zoned R-80 Residential. Access to this alternate site would be from East Reeds Gap Road via an existing private road. (Metro Mobile 22, Exhibit 7A, pp. 1-3, p. 14)
104. The only residential development in the area of the alternate Liska North Branford site on East Reeds Gap Road is located more than 2000' to the north. (Metro Mobile 22, Exhibit 7A, p. 20)
105. The alternate Liska North Branford site, on East Reeds Gap Road, is Metro Mobile's preferred site for North Branford. (Tr. 3/13/86, p. 10, p. 183)
106. Metro Mobile has filed notice with the FAA regarding the alternate Liska North Branford site. The alternate site is one mile further away from the nearest airport runway than the originally proposed North Branford site. The applicant does not expect the FAA to require this alternate tower to be obstruction marked or lighted. (Metro Mobile 22, p. 5)
107. Metro Mobile evaluated and rejected several other potential tower sites in the North Branford area. The Lowe property adjacent to the Washington Trail was rejected due to proximity to this trail and to Tri Mountain State Park, as well as questionable signal coverage. The New Haven Raccoon Club property off of Route 17 was found to have inadequate signal coverage and insufficient interface with adjacent cells. (Metro Mobile 1, Exhibit 7, p. 24)

108. The proposed Bishops Orchard North Branford site would not be visible from Youngs Apple Orchard Road, Acorn Lane, or from the intersection of Reeds Gap Road West and Route 17. The proposed tower would be visible from certain points along Route 17 in the immediate area. Many homes and some businesses would have a view of the tower. (Metro Mobile 1, Exhibit 7, p. 6; Metro Mobile 19, Q. 23)
109. The alternate Liska North Branford on East Reeds Gap Road site would be visible from Lane Pond Road, but would not be visible from East Reeds Gap Road northeast of the alternate site, or from the intersection of Walnut Lane and Acorn Lane. (Metro Mobile 22, Exhibit 7A, p. 20)
110. Metro Mobile has proposed 15'x21' equipment buildings for both the proposed Bishops Orchard and alternate Liska North Branford sites. Each would be surrounded by an 8' security fence. (Metro Mobile 1, Exhibit 7, p. 14; Metro Mobile 22, Exhibit 7A, p. 12)
111. Power densities at the proposed Bishop Orchard and alternate Liska North Branford site would be  $0.0034664 \text{ mW/cm}^2$  for eight channels at 100w at the base of the proposed tower, based on conservative assumptions. (Metro Mobile 1, Exhibit Q)
112. Metro Mobile proposed a tower site in Wallingford in its original application of October 30, 1985. On March 10, 1986, Metro Mobile amended its application by adding two alternate tower sites in Wallingford. On March 13, 1986, Metro Mobile withdrew its original Wallingford site and two alternate Wallingford sites. (Metro Mobile 1, Exhibit 8, p. 1; Metro Mobile 22, p. 6; Tr. 3/13/86, p. 12)

113. The proposed West Haven tower site is an existing 180' self-supporting lattice tower at 24 Rockdale Drive. The proposed site is 150' AMSL. (Metro Mobile 1, Exhibit 9, p. 6)
114. Metro Mobile proposes to lease space on this existing tower, which is located in an area zoned for commercial use. The tower is owned by the Radio Communications Corporation, and is similar to other towers proposed for the Metro Mobile system. (Metro Mobile 1, Exhibit 9, p. 6; Metro Mobile 2, Q. 42)
115. Metro Mobile would lease equipment building space at the proposed West Haven site and therefore would not have to construct its own equipment building. (Metro Mobile 1, Exhibit 9, p. 14)
116. Metro Mobile would place its transmit antennas at the 180' level of the existing tower, creating an overall structure height of 193'. (Metro Mobile 1, Exhibit 9, p. 4A)
117. Utilities are already present at the proposed West Haven site, and access would be via an existing parking lot near the base of the tower. (Metro Mobile 1, Exhibit 9, p. 7)
118. Power densities at the proposed West Haven site would be 0.0038997 mW/cm<sup>2</sup> for nine channels at 100w at the base of the existing tower, based on conservative assumptions. (Metro Mobile 1, Exhibit Q)
119. The proposed Wolcott tower site would be a 70'x40' leased parcel located 150' northeast of the intersection of East Street and Meriden Road. (Metro Mobile 1, Exhibit 10, p. 4)
120. The proposed site is zoned R-30, contains three single family dwellings and a two car garage, and is owned by Agostinhos Rodrigues. A 120' Department of Transportation (DOT) tower is

located 50' from the proposed site. (Metro Mobile 1, Exhibit 10, p. 4, p. 6; Metro Mobile 2, Q. 44)

121. Metro Mobile proposes to construct a 180' tower, 193' total height with antennas, on the proposed site, which has an elevation of 750' AMSL. (Metro Mobile 1, Exhibit 10, p. 7)
122. There is an 8.3% chance that the proposed tower could fall onto the closest dwelling on the proposed site, which would be 75' from the proposed tower's base. Extra safety factors built into the proposed Wolcott tower would exceed EIA Zone B wind loading and probably Zone C as well. The proposed tower would be designed for  $\frac{1}{2}$ " radial icing, but could be redesigned for 1" radial icing at an added cost of approximately \$10,000.00. (Metro Mobile 19, Q. 85)
123. The proposed Wolcott tower would not interfere with the nearby existing DOT tower. Metro Mobile would consider the feasibility of sharing a proposed site with DOT, if requested by that agency in the future. Such consolidation is not now possible, according to the DOT. (Metro Mobile 19, Q. 86)
124. Metro Mobile investigated and rejected several other potential tower sites in the Wolcott area. The owners of the Lake Drive-In on Meriden Road and the Stanley property on Hitchcock Road were not interested in leasing a site. There was no space available at the Kulman Brothers Garage on Meriden Road. The applicant was unable to reach a lease agreement with the owners of property at the Sheet Metal Manufacturing Company on Meriden Road. The DOT notified the applicant that their existing tower is not available for private use. (Metro Mobile, Exhibit 10, p. 24)

125. The proposed Wolcott tower would be visible from points on East Street 300' north of Central Avenue, from Meriden Road approximately midway between Oak Street and Musso View Avenue, from the intersection of Maple Avenue and Lake Drive, and from Central Avenue near the intersection of Pratte Lane. It would not be visible from Meriden Road approximately 500' west of the intersection of Old Mountain Road. (Metro Mobile 19, Q. 23)
126. Access to the proposed Wolcott tower would be from East Street via an improved driveway. A 15'x21' equipment building would be constructed west of the proposed tower. An 8' security fence would surround the proposed site. (Metro Mobile 1, Exhibit 10, p. 13)
127. Power densities at the proposed Wolcott site would be 0.0034664 mW/cm<sup>2</sup> for eight channels at 100w at the base of the proposed tower, based on conservative assumptions. (Metro Mobile 1, Exhibit Q)
128. The State Historic Preservation Officer indicates that the proposed sites would have no effect on historical, architectural, or archaeological resources listed on or eligible for the National Register of Historic Places. (Metro Mobile 1, Exhibit L)
129. Results of a search of the Natural Diversity Data Base of DEP indicates that except for the originally proposed Hamden site, the proposed tower sites do not present any known conflict to critical natural resources. (Metro Mobile 1, Exhibit K)
130. The overall effects of the various revisions and amendments made by Metro Mobile since the original application would have a small effect on coverage. There would be some changes in some of the internal coverage gaps within the coverage contours. Even without

- a Wallingford site, Metro Mobile would still expect to cover 85%-90% of the total New Haven NECMA. (Tr. 3/13/86, pp. 13-14)
131. Metro Mobile CTS of New Haven, Inc. was assigned the FCC non-wireline authorization for the New Haven NECMA on November 19, 1985, after obtaining the controlling interest in the New Haven Cellular Company, a partnership that initially had been granted FCC permission to construct the system on February 14, 1985. (Metro Mobile 1, Exhibit F, Metro Mobile 2, Q. 30)
132. The parent company of Metro Mobile CTS Inc., is a Texas limited partnership, Metro Mobile CTS. (Tr. 3/13/86, p. 276)
133. Metro Mobile estimates the New Haven NECMA mobile cellular market population for 1980 at 761,337. (Metro Mobile 1, Exhibit D)
134. In 1982, Metro Mobile projected the first year's operation would produce 2,711 customers. Customer numbers were projected to increase to 11,520 customers in 1990 after four years of operation. (Metro Mobile 2, Q. 1)
135. Metro Mobile estimates portable service could comprise 10 percent or more of the present cellular service market. This service is expected to increase as the cost of units decreases, smaller units become commercially available, and public awareness increases. (Metro Mobile 3, Q. 52)
136. All Metro Mobile systems in the United States were designed by Motorola. (Tr. 3/13/86, p. 270)
137. Motorola portable equipment has an effective radiated power of 0.6 watt. Vehicular units of the class one type have a nominal power output of three watts. They use a gain antenna which is in the six to seven watt range. (Tr. 3/13/86, 1:00 P.M., pp. 142-143)

138. Metro Mobile, in testing the signal quality of its operational systems, would place one to two thousand sample telephone calls from various randomly selected points throughout the system. Actual operating experience with cellular systems is limited. Coverage projections have been close to actual coverage. (Tr. 3/13/86, p. 271)
139. When a particular cell's allotted frequencies are filled to capacity, additional antennas cannot be added to the existing tower due to restrictions regarding the number of frequencies used at a particular cell site. (Tr. 3/13/86, pp. 272-273)
140. It is unlikely that an alternate cellular technology, the CD 900 system developed in Germany, would be adopted for use in the United States. (Tr. 3/13/86, pp. 273-274)
141. Metro Mobile projects a \$3 billion aggregate annual service market for the national cellular service industry by 1990, based on 1.2 million subscribers. (Metro Mobile 1, p. 12)
142. Metro Mobile projects its average annual revenue from Connecticut customer service charges by 1990 would be approximately \$20 million. (Metro Mobile 2, Q. 4)
143. Metro Mobile projects its economic breakeven point, based on the experience of nationwide cellular systems similar to the one proposed, could be attained after 2-3 years of initial operation. (Metro Mobile 2, Q. 2)
144. The construction and operation of the proposed cellular system is not expected to incur any public costs and should generate public benefits. (Metro Mobile 1, p. 14)

145. The original estimated total construction cost for the New Haven NECMA includes:

- |   |                 |
|---|-----------------|
| 1) Radio and electronic equipment   | \$2,194,000;    |
| 2) Tower and antenna  | \$ 738,000;     |
| 3) Utility service  | \$ 61,000;      |
| 4) Buildings  | \$ 600,000; and |
| 5) Miscellaneous including engineering,<br>design, site preparation, fencing. | \$ 670,000.     |

Total construction and equipment \$4,263,000.

(Metro Mobile 1, pp. 24-25)

146. Due to the revisions in several cell sites cost estimates, the total estimated cost to construct the New Haven NECMA has been reduced by \$546,100.00, leaving an estimated total cost of \$3,716.900 excluding the Norwalk M.T.S.O. costs. (Metro Mobile 1, p. 4; Metro Mobile LF 28, Exhibit B)

147. The total cost to equip and construct the Norwalk M.T.S.O. facility is estimated at \$1.2 million to \$1.5 million. (Tr. 3/13/86, pp. 282-283)

148. Withdrawing the Wallingford site from the application reduces the estimated total cost of equipment and construction of the new Haven NECMA system by an estimated \$423,600. (Metro Mobile 28, Exhibit B)

149. The original estimated construction costs for the proposed Beacon Falls (GM) site, included:

- |  |                |
|--|----------------|
| Radio Equipment  | \$327,129;     |
| Tower and Antenna  | \$ 85,198;     |
| Utilities  | \$ 6,800;      |
| Shelter  | \$ 75,000; and |
| Miscellaneous (including site<br>preparation and construction) | \$ 77,050.     |

Total equipment and construction \$571,177.

(Metro Mobile 1, Exhibit 1, p. 10)



150. Reducing the Beacon Falls proposed tower height from 180' to 160' would lower the cost of the proposed facility by \$9,000. The total revised cost to construct and equip the facility is estimated at \$562,177.00. (Metro Mobile 28, Exhibit B)
151. The estimated construction cost for the alternative Beacon Falls (GM/A) site, totals \$571,177 and is the same as those listed for the Beacon Falls (GM) primary site. (Metro Mobile 1, Exhibit 2, p. 11)
152. The original estimated construction costs for the proposed

Guilford (HI) site, included:

Radio equipment	\$196,691;
Tower and antenna	\$ 85,198;
Utilities	\$ 6,800;
Shelter	\$ 75,000; and
Miscellaneous (including site preparation and construction)	\$ 77,050.

Total equipment and construction \$440,739.

(Metro Mobile 1, Exhibit 3, p. 13)

153. Reducing the Guilford proposed tower height from 180' to 140' would lower the cost of the proposed facility by \$14,000.00. The total revised cost to construct and equip the facility, excluding marginal additional site development relocation costs, is estimated at \$426,739.00. (Metro Mobile 28, Exhibit B)

154. The original estimated construction cost for the proposed Hamden (G) site included:

Radio equipment	\$271,435;
Tower and antenna	\$115,464;
Utilities	\$ 6,800;
Shelter	\$ 75,000; and
Miscellaneous (including site preparation and construction)	\$ 77,050.

Total equipment and construction \$545,749.

(Metro Mobile 1, Exhibit 4, p. 9)

155. Relocating the facility on the 250' tower adjacent to the original proposed site would require \$16,200 to strengthen the existing tower. The relocation would lower the total costs of the facility by \$73,000. This produces a revised total cost estimate for the proposed facility at \$472,749. (Metro Mobile 28, Exhibit 28)

156. The original estimated construction costs for the proposed Milford (F) site, includes:

Radio equipment	\$333,176;
Tower and antenna	\$ 85,198;
Utilities	\$ 6,800;
Shelter	\$ 75,000; and
Miscellaneous (including site preparation and installation)	\$ 77,050;
Total equipment and construction	\$577,224.

(Metro Mobile 1, Exhibit 5, p. 9)

157. Reducing the Milford proposed tower height from 180' to 160', subject to FAA approval and excluding costs for obstruction marking and lighting, would lower the cost of the proposed facility by \$9,000. The total revised cost to construct and equip the facility is estimated at \$568,224. (Metro Mobile 28, Exhibit B)

158. The original estimated construction cost for the proposed Naugatuck (MN) site, included:

Radio equipment	\$196,691;
Tower and antenna	\$ 85,198;
Utilities	\$ 6,800;
Shelter	\$ 75,000; and
Miscellaneous costs (including site preparation and installation)	\$ 79,050.
Total equipment and construction	\$442,739.

(Metro Mobile 1, Exhibit 6, p. 10)

159. Reducing the Naugatuck proposed tower height from 180' to 160', exclusive of additional cost for obstruction marking and lighting, would lower the costs of the proposed facility by \$8,000. (Metro Mobile 28, Exhibit B)

160. The original estimated construction cost for the proposed primary site located in the Bishop Orchard property in North Branford

(I) included:

Radio equipment	\$178,550;
Tower and antenna	\$ 85,198;
Utilities	\$ 6,800;
Shelter	\$ 75,000; and
Miscellaneous (including site preparation and construction)	\$ 77,050.

Total equipment and construction \$422,598.

(Metro Mobile 1, Exhibit 7, p. 11)

161. Moving the site of the proposed North Branford facility from the Bishop's Orchard property to the East Reeds Gap Road location would reduce the total estimated equipment and construction costs by \$9,000.00.

(Metro Mobile 28, Exhibit B)

162. The estimated construction cost for the proposed West Haven (FG) site, includes:

Radio equipment	\$333,176;
Tower and antenna	\$ 25,900;
Utilities	\$ 6,800; and
Miscellaneous (including site preparation and installation)	\$ 50,000.

Total equipment and construction \$415,876.

(Metro Mobile 1, Exhibit 9, p. 40)

163. The original estimated construction costs for the proposed Wolcott (N) site, include:

Radio equipment	\$178,550;
Tower antenna	\$ 85,198;
Utilities	\$ 6,800;
Shelter	\$ 75,000; and
Miscellaneous (including site preparation and installation)	\$ 77,050.
Total equipment and installation	\$422,598.

(Metro Mobile 1, Exhibit 10, p. 10; Metro Mobile 2, Q. 6)

164. Redesigning the proposed Wolcott tower to withstand 1" radial ice would increase the cost by an estimated \$10,000. (Metro Mobile 19, Exhibit 7, p. 2)

165. The installed costs for monopole and lattice tower structures at 180, 150, and 100 feet are as follows:

	<u>Monopole</u>	<u>Lattice</u>
180'	\$71,000	\$49,000
150'	\$52,000	\$39,000
100'	\$44,000	\$26,000

(Metro Mobile 2, Q. 25)

166. After a lattice tower is initially installed, adding an extension to its height would involve an overall cost exceeding the initial expenditure. (Metro Mobile 3, Q. 68)

167. The total cost for the antenna packages for all nine of the proposed cell sites is \$233,000, an average of \$25,900 each. (Metro Mobile 2, Q. 5)

168. Metro Mobile proposes that lattice towers remain unpainted, thereby presenting a weathered, galvanized steel appearance. Painting the tower at all proposed sites would cost an additional estimated \$18,400. Routine annual maintenance for all sites is estimated at

- \$7,200. Periodic repainting would cost an estimated \$2,400 at each site. (Metro Mobile 2, Q. 7)
169. Estimated costs to underground utility service could range from \$325 for 100' at Naugatuck to \$3,415 for 1050' at Milford. (Metro Mobile 2, Q. 9)
170. The estimated cost of available in-vehicle equipment is approximately \$1,100.00-\$1,500.00 with an additional \$200.00 charged for installation and including the cost of the antenna and cable. The basic monthly service charge, including access and airtime but excluding toll calls, is estimated at start-up at \$150.00. (Metro Mobile 2, Q. 3; Tr. 2/6/86, pp. 166-167)
171. Metro Mobile does not intend to sell equipment at the retail level. (Tr. 3/13/86, pp. 275-276)
172. Metro Mobile would dismantle and remove all of the proposed towers if the proposed cellular service is not provided or ceases to be provided after completion of construction and there is no appropriate application for approval of any new use. (Metro Mobile 2, Q. 31; Tr. 2/6/86, p. 141)
173. Metro Mobile has no legal or verbal agreements, other than those involving the West Haven and Hamden tower sites, with any person or company for the placing of additional antennas on any particular tower. (Tr. 3/13/86, p. 283)

AN APPLICATION OF METRO MOBILE CTS OF NEW HAVEN, INC., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE, AND OPERATION OF FACILITIES TO PROVIDE CELLULAR SERVICE IN NEW HAVEN COUNTY. : CONNECTICUT SITING  
: COUNCIL  
: April 14, 1986

D E C I S I O N A N D O R D E R

Pursuant to the foregoing opinion, the Council hereby directs that a certificate of environmental compatibility and public need as required by section 16-50k of the General Statutes of Connecticut (CGS) be issued to Metro Mobile CTS of New Haven, Inc., for the construction, maintenance, and operation of cellular mobile phone telecommunication towers and associated equipment in the towns of Wolcott, Naugatuck, West Haven (existing tower), Milford, Hamden (existing tower), Guilford, and North Branford subject to the conditions below.

1. The proposed and alternate Beacon Falls sites are rejected without prejudice.
2. The Wolcott tower shall be constructed to meet Zone C wind loading with 1" of radial ice and shall not exceed 180' in height excluding antennas.
3. The Naugatuck tower shall not exceed 160' in height, excluding antennas. The certificate holder shall offer to remove the existing privately owned, unused tower now on the site.
4. Any future actions requiring the removal of the existing West Haven or Hamden towers to be shared by the certificate holder shall also apply to the equipment mounted on those towers by the certificate holder, regardless of that equipment's status under Chapter 277a of the CGS.

5. The Milford tower shall be a monopole structure not to exceed 100' in height, excluding antennas.
6. The Guilford tower shall be a monopole structure not to exceed 150' in height, excluding antennas.
7. The North Branford Route 17 site is rejected. The North Branford East Reeds Gap Road tower shall not exceed 160' in height, excluding antennas.
8. The certificate holder shall submit a development and management plan for the Wolcott, Naugatuck, Milford, Hamden, Guilford, and North Branford sites pursuant to sections 16-50j-75 through 16-50j-77 of the RSA, except that irrelevant items in section 16-50j-76 need only be identified as such. In addition to the requirements of section 16-50j-76, the D&M plan shall provide plans for evergreen screening around the fenced perimeter at the Wolcott, Milford, Hamden, Guilford, and North Branford sites. The D&M plan shall include a proposal for painting the approved monopole structures to blend with the sky. Any changes to specifications in the D&M plan must be approved by the Council prior to facility operation.
9. All certified facilities shall be constructed, operated, and maintained as specified in the Council's record and in the site development and management plan required by order 8.
10. The certificate holder shall permit public or private entities to share space on the towers approved herein, for due consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. In addition to complying with 16-50j-73, the

certificate holder shall notify the Council of the addition of any equipment to any approved tower.

11. A fence not lower than 8' shall surround each tower and associated equipment.
12. Unless necessary to comply with order 13, below, no lights shall be installed on any of these towers.
13. The facilities' construction and any future tower sharing shall be in accordance with all applicable federal, state, and municipal laws and regulations. Shared uses by entities not subject to jurisdiction pursuant to sections 16-50i and 16-50k of the CGS shall be subject to all applicable federal, state, and municipal laws and regulations.
14. Construction activities shall take place during daylight working hours.
15. This decision and order shall be void and the towers and associated equipment shall be dismantled and removed, or reapplication for any new use shall be made to the CSC before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction.
16. This decision and order shall be void if all construction authorized herein is not completed within three years of the issuance of this decision, or within three years of the completion of any appeal if appeal of this decision is taken, unless otherwise approved by the Council.

Pursuant to CGS section 16-50p, we hereby direct that a copy of the decision and order shall be served on each person listed below. A notice



of the issuance shall be published in The Record-Journal, The New Haven Register, The Branford Review, The Evening Sentinel, The Waterbury American, and The Waterbury Republican.

The parties to this proceeding are:

Metro Mobile CTS of New Haven, Inc. (Applicant)  
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General Manager

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Guilford Conservation Commission

represented by:

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Chairman  
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Mr. Robert W. Griswold, Jr.  
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ATTN: Shirley Gonzales  
Town Planner

Guilford Planning and Zoning Commission

represented by:

Mr. David W. Fisher  
Chairman  
Town Hall  
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Town of Hamden

represented by:

John DeNicola, Jr.  
Mayor  
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Memorial Town Hall  
2372 Whitney Avenue  
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Citizens Park Council of New Haven

represented by:

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Southern New England Telephone Company

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Brittany Woods Homeowner's Association

represented by:

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Ms. Barbara G. Schlein  
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Mr. & Mrs. Joseph T. Farrell, Jr.  
334 Rimmon Hill Road  
Beacon Falls, Connecticut 06403

Town of Beacon Falls

represented by:

The Honorable Leonard F. D'Amico  
First Selectman  
10 Maple Avenue  
Beacon Falls, Connecticut 06403

West Rock Ridge Park Association

represented by:

Mr. William L. Doheny Jr., D.D.S.  
President  
220 Mountain Road  
Hamden, Connecticut 06514

Department of Parks,  
Recreation & Trees

represented by:

Mr. Robert G. Sheeley  
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P.O. Box 1416  
New Haven, Connecticut 06506

Town of Wallingford

represented by:

William W. Dickinson, Jr.  
Mayor  
Municipal Building  
350 Center Street  
P.O. Box 427  
Wallingford, Connecticut 06492

New Haven Sierra Club

represented by:

Ms. Laurie Klein  
270 Edgewood Avenue  
New Haven, Connecticut 06511

Peter M. Lerner  
State Representative  
8 Merritt Avenue  
Woodbridge, Connecticut 06525

Carleton J. Benson  
State Representative  
161 Scott Road  
Prospect, Connecticut 06712

Dr. Stephen Collins (service waived)  
Vice Chairman  
West Rock State Park  
Advisory Council  
Bethany, Connecticut

Mr. Louis Melillo (service waived)  
985 Wintergreen Avenue  
Hamden, Connecticut

Mr. John McGeever (service waived)  
339 Rimmon Hill  
Beacon Falls, Connecticut 06403

Senator John Consoli (service waived)  
51 Luke Hill Road  
Bethany, Connecticut 06525

Representative George P. Bassing (service waived)  
14 Oakwood Drive  
Seymour, Connecticut 06483

Dr. George D. Whitney (service waived)  
858 Oakwood Road  
Orange, Connecticut

Mr. Steve Molnar (service waived)  
205 West Road  
Beacon Falls, Connecticut

Mr. James W. Grandy (service waived)  
President  
Hamden Land Conservation Trust  
Hamden, Connecticut

Senator Richard S. Eaton (service waived)  
269 Mulberry Point Road  
Guilford, Connecticut 06437

Representative Robert M. Ward  
719 Totoket Road  
Northford, Connecticut 06472

Town of North Branford

represented by:

John Gesmonde, Esquire  
3127 Whitney Avenue  
Hamden, Connecticut 06518

Regina Smith  
1887 Middletown Avenue  
Northford, Connecticut 06472

(service waived)

Richard A. Nizolek  
The Restland Farm Corporation  
Route 17  
Northford, Connecticut 06472

Mary Liska  
83 Reeds Gap Road  
Northford, Connecticut 06472

Ben Bullard  
50 Christmas Hill Road  
Guilford, Connecticut 06437

(service waived)

Roland Robichaud  
31 Berncliff Drive  
North Branford, Connecticut 06471

(service waived)

Irene Flynn  
1926 Middletown Avenue  
Northford, Connecticut 06472

(service waived)

Charles Pope  
199 Donalds Road  
Guilford, Connecticut 06437

Richard Abate  
131 Manor Road  
Guilford, Connecticut 06437

(service waived)

City of Milford

represented by:

Mayor Alberta Jagoe  
Alderman Maurice Condon  
Alderman Frederick Lisman  
City Hall  
River Street  
Milford, Connecticut 06460

Thomas Scelfo  
81 Berncliff Drive  
North Branford, Connecticut 06471

(service waived)

Senator Thomas Scott  
22 Meyers Court  
Milford, Connecticut 06460

(service waived)

Helen Moore  
385 Oronoque Road  
Milford, Connecticut 06460

(service waived)

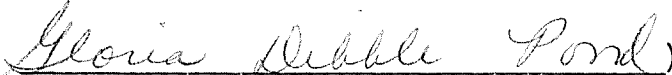

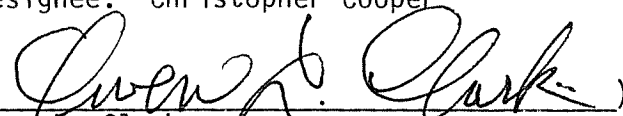

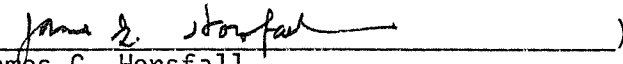
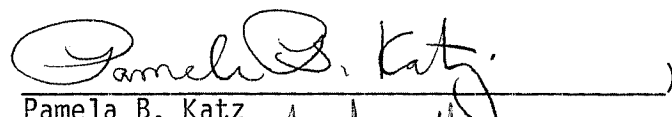
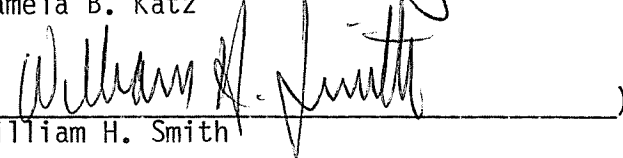

William Barberi  
298 Oronoque Road  
Milford, Connecticut 06460

(service waived)

C E R T I F I C A T I O N

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:

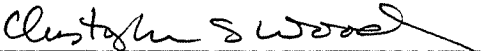
Dated at New Britain, Connecticut, this 14th day of April, 1986.

<u>Council Members</u>	<u>Vote Cast</u>
 Gloria Dibble Pond Chairperson	Yes
_____) Commissioner John Downey Designee: Commissioner Peter G. Boucher	Absent
 Commissioner Stanley Pad Designee: Christopher Cooper	No
 Owen L. Clark	Yes
 Mortimer A. Gelston	Yes
 James G. Horsfall	Yes
 Pamela B. Katz	Yes
 William H. Smith	No
 Colin C. Tait	No

STATE OF CONNECTICUT            )  
  :  
COUNTY OF HARTFORD            )        ss.        New Britain, April 14, 1986

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:

  
\_\_\_\_\_  
Christopher S. Wood, Executive Director  
Connecticut Siting Council



<b>PETITION NO. 973</b> – North Atlantic Towers, LLC and New Cingular Wireless PCS, LLC petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required to replace and expand an existing structure located at 880 Andrew Mountain Road, Naugatuck, Connecticut.	} } }	Connecticut  Siting  Council  April 28, 2011
---	-------------	--

**Decision and Order**

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the installation of a telecommunications facility at 880 Andrew Mountain Road in Naugatuck, Connecticut will not have a substantial adverse environmental effect, and pursuant to General Statutes § 16-50k(a), and hereby declares that the project will not require a Certificate of Environmental Compatibility and Public Need.

Unless otherwise approved by the Council, the facility shall be constructed, operated, and maintained substantially as specified in the Council’s record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of New Cingular Wireless PCS, LLC (AT&T) and other entities, both public and private, but such tower shall not exceed a height of 120 feet above ground level. The height at the top of the AT&T’s antennas shall not exceed 120 feet above ground level.
2. The compound associated with the facility shall be constructed within a 50-foot by 50-foot area located as far south as possible within the leased area.
3. The access drive shall be constructed in the originally proposed location approximately 50 feet from the northern property boundary.
4. The Petitioner shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Naugatuck for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
  - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, and landscaping;
  - b) potential tower painting or tower material options that would mitigate visual impact to the surrounding area; and
  - c) construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

5. Prior to the commencement of operation, the Petitioner shall provide the Council worst-case modeling of the electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Petitioner shall ensure a recalculated report of the electromagnetic radio frequency power density be submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
6. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
7. The Petitioner shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
8. The Petitioner shall provide reasonable space on the tower for no compensation for any Town of Naugatuck public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
9. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed with at least one fully operational wireless telecommunications carrier providing wireless service within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Petitioner shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The Petitioner shall provide written notice to the Executive Director of any schedule changes as soon as is practicable.
10. Any request for extension of the time period referred to in Condition 9 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of Naugatuck. Any proposed modifications to this Decision and Order shall likewise be so served.
11. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Petitioner shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
12. Any nonfunctioning antenna, and associated antenna mounting equipment, on this facility shall be removed within 60 days of the date the antenna ceased to function.
13. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Petitioner shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Petitioner shall provide the Council with written notice of the completion of site construction, and the commencement of site operation.

14. The Petitioner shall remit timely payments associated with annual assessments and invoices submitted by the Council for expenses attributable to the facility under Conn. Gen. Stat. §16-50v.
15. This declaratory ruling may be transferred in accordance with Conn. Gen. Stat. §16-50k(b), provided both the Petitioner/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. In addition, both the Petitioner/transferor and the transferee shall provide the Council a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.
16. The Petitioner shall maintain the facility and associated equipment, including but not limited to, the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line and landscaping in a reasonable physical and operational condition that is consistent with this Decision and Order and a Development and Management Plan to be approved by the Council.
17. If the Petitioner is a wholly-owned subsidiary of a corporation or other entity and is sold/transferred to another corporation or other entity, the Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the Petitioner within 30 days of the sale and/or transfer.

Pursuant to General Statutes § 16-50p, the Council hereby directs that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Republican-American and the Citizen's News.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

**Petitioner**

North Atlantic Towers, LLC and  
New Cingular Wireless PCS LLC

**Its Representative**

Lucia Chiocchio, Esq.  
Christopher B. Fisher, Esq.  
Cuddy & Feder LLP  
445 Hamilton Avenue, 14<sup>th</sup> Floor  
White Plains, NY 10601



# Borough of Naugatuck, CT

Property Listing Report

Map Block Lot

D-6W29-B


Account

002-0300

## Property Information

Property Location	0 ANDREW MTN RD
Owner	ANDREW RUSSELL B SR
Co-Owner	
Mailing Address	861 ANDREW MTN RD NAUGATUCK CT 06770
Land Use	6100 Forest 490
Land Class	S
Zoning Code	
Census Tract	
Sub Lot	
Neighborhood	7
Acreage	104.48
Utilities	
Lot Setting/Desc	
Survey Map	
Additional Info	

**Photo**



No Photo Available

**Sketch**

## Primary Construction Details

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

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

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



# Borough of Naugatuck, CT

Property Listing Report

Map Block Lot

D-6W29-B

Account

002-0300

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

Item	Appraised	Assessed
Buildings		
Extras		
Outbuildings		
Land		
<b>Total</b>		

## Outbuilding and Extra Items

Type	Description
CANOPY-AVE	800 S.F.
Fireplace 1 STY	1 UNITS
Shed	224 S.F.
Shed	224 S.F.
CELL TOWER	120 HEIGHT

## Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
<b>Total Area</b>		0

## Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
ANDREW RUSSELL B SR	954/ 260	12/17/2014	0
ANDREW FRANKLIN B JR + PIERCE MARJORIE	954/ 258	12/17/2014	0
ANDREW FRANKLIN B JR	954/ 256	12/17/2014	0
ANDREW FRANKLIN BROOKS EST	932/ 275	8/8/2013	
ANDREW FRANKLIN B	684/ 440	10/28/2004	
ANDREW FRANKLIN B	467/ 103	6/29/1998	0
ANDREW FRANKLIN B	339/ 202	12/27/1989	0
ANDREW FRANKLIN B	134/ 531	6/24/1965	0



# Borough of Naugatuck, CT

Property Listing Report

Map Block Lot

002-0301

Account

002-0301

## Property Information

Property Location	880 ANDREW MTN RD
Owner	PIERCE MARJORIE
Co-Owner	
Mailing Address	111 BIRCH LA NAUGATUCK CT 06770
Land Use	1010 Single Fam
Land Class	R
Zoning Code	
Census Tract	
Sub Lot	
Neighborhood	7
Acreage	1.72
Utilities	
Lot Setting/Desc	
Survey Map	
Additional Info	

## Photo



## Sketch



## Primary Construction Details

Year Built	2000
Stories	1
Building Style	Ranch
Building Use	Residential
Building Condition	C
Floors	Hardwood
Total Rooms	3

Bedrooms	2 Bedrooms
Full Bathrooms	1
Half Bathrooms	
Bath Style	Average
Kitchen Style	Average
Roof Style	Gable
Roof Cover	Asphalt

Exterior Walls	Logs
Interior Walls	Drywall
Heating Type	Hot Water
Heating Fuel	Oil
AC Type	None
Gross Bldg Area	2424
Total Living Area	792





# Town of Naugatuck, CT

## Property Listing Report

Map Block Lot

**002-0302**

Building # **1**

PID **129167**

Account

**002-0302**

### Property Information

Property Location	<b>0 ANDREW MOUNTAIN RD</b>
Owner	<b>ANDREW FRANKLIN B JR</b>
Co-Owner	
Mailing Address	<b>325 MILLVILLE AVE NAUGATUCK CT 06770</b>
Land Use	<b>3920 VACANT UNB</b>
Land Class	<b>C</b>
Zoning Code	
Census Tract	

Neighborhood	<b>7</b>
Acreage	<b>14.91</b>
Utilities	
Lot Setting/Desc	
Book / Page	<b>0954/0256</b>
Additional Info	

### Photo



### Sketch



### Primary Construction Details

Year Built	<b>0</b>
Building Desc.	<b>VACANT UNB</b>
Building Style	<b>UNKNOWN</b>
Building Grade	
Stories	
Occupancy	
Exterior Walls	
Exterior Walls 2	<b>NA</b>
Roof Style	
Roof Cover	
Interior Walls	
Interior Walls 2	<b>NA</b>
Interior Floors 1	
Interior Floors 2	

Heating Fuel	
Heating Type	
AC Type	
Bedrooms	<b>0</b>
Full Bathrooms	<b>0</b>
Half Bathrooms	<b>0</b>
Extra Fixtures	<b>0</b>
Total Rooms	<b>0</b>
Bath Style	<b>NA</b>
Kitchen Style	<b>NA</b>
Fin Bsmt Area	
Fin Bsmt Quality	
Bsmt Gar	<b>0</b>
Fireplaces	<b>0</b>

### (\*Industrial / Commercial Details)

Building Use	<b>Vacant</b>
Building Condition	
Sprinkler %	<b>NA</b>
Heat / AC	<b>NA</b>
Frame Type	<b>NA</b>
Baths / Plumbing	<b>NA</b>
Ceiling / Wall	<b>NA</b>
Rooms / Prtns	<b>NA</b>
Wall Height	<b>NA</b>
First Floor Use	<b>NA</b>
Foundation	<b>NA</b>







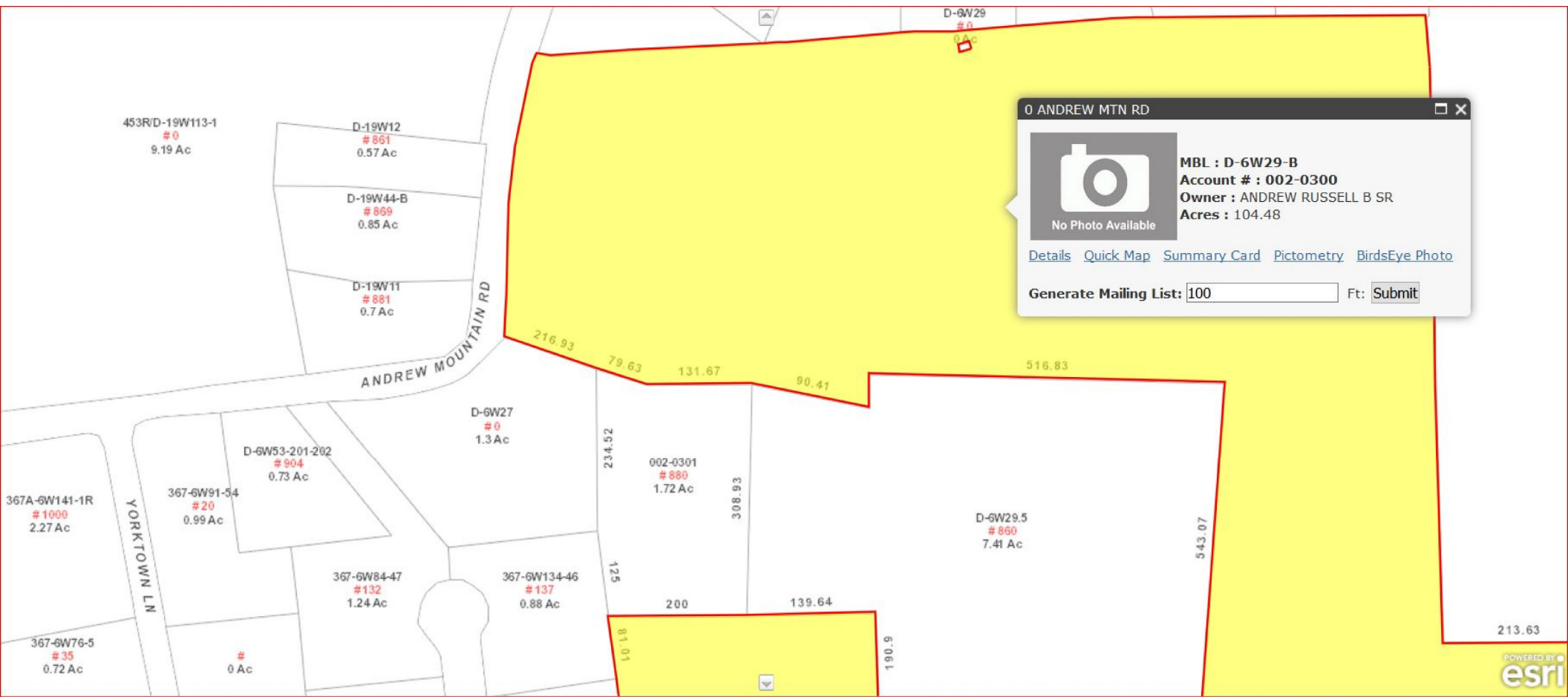
0 ANDREW MTN RD

 No Photo Available

MBL : D-6W29-B  
 Account # : 002-0300  
 Owner : ANDREW RUSSELL B SR  
 Acres : 104.48

[Details](#) [Quick Map](#) [Summary Card](#) [Pictometry](#) [BirdsEye Photo](#)

Generate Mailing List:  Ft:



0 ANDREW MTN RD

**MBL : D-6W29-B**  
**Account # : 002-0300**  
**Owner : ANDREW RUSSELL B SR**  
**Acres : 104.48**

[Details](#) [Quick Map](#) [Summary Card](#) [Pictometry](#) [BirdsEye Photo](#)

Generate Mailing List:  Ft:

# The Borough of Naugatuck

Geographic Information System (GIS)



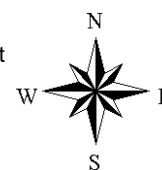
Date Printed: 12/14/2017



### MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Borough of Naugatuck and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 150 feet



**UPS CampusShip: View/Print Label**

- 1. Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
- 2. Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
- 3. GETTING YOUR SHIPMENT TO UPS**  
**Customers with a Daily Pickup**  
 Your driver will pickup your shipment(s) as usual.

**Customers without a Daily Pickup**

Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.


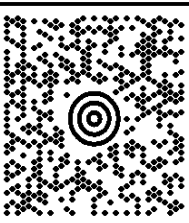
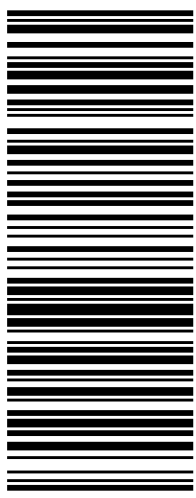

Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages. Hand the package to any UPS driver in your area.

UPS Access Point™  
CVS STORE # 972  
555 WASHINGTON ST  
SOUTH EASTON ,MA 02375

UPS Access Point™  
CVS STORE # 7232  
689 DEPOT ST  
NORTH EASTON ,MA 02356

UPS Access Point™  
TOWN LINE GENERAL STORE  
450 E CENTER ST  
WEST BRIDGEWATER ,MA 02379

FOLD HERE

<p>1 LBS</p> <p>1 OF 1</p> <p>SHIP TO: PETE HESS III, MAYOR 4TH FLOOR 229 CHURCH STREET NAUGATUCK CT 06770-4145</p> <p>MIJMAIL 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p>	<p>CT 067 9-04</p>  	<p><b>UPS GROUND</b></p> <p>TRACKING #: 1Z 9Y4 503 03 0014 7212</p> 	<p>BILLING: P/P</p> <p>Reference # 1: 283423 Reference # 2: Naugatuck West CT</p>  <p style="font-size: small;">WVNTNV50 32.OA 08/2021 *</p>
---	--	--	---

# Proof of Delivery

Dear Customer,

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

**Tracking Number**

1Z9Y45030300147212

**Weight**

1.00 LBS

**Service**

UPS Ground

**Shipped / Billed On**

08/13/2021

**Delivered On**

08/19/2021 9:51 A.M.

**Delivered To**

NAUGATUCK, CT, US

**Received By**

CLERK

**Left At**

Receiver

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 10/20/2021 7:11 A.M. EST

**UPS CampusShip: View/Print Label**

- 1. Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
- 2. Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
- 3. GETTING YOUR SHIPMENT TO UPS**  
**Customers with a Daily Pickup**  
 Your driver will pickup your shipment(s) as usual.

**Customers without a Daily Pickup**

Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.


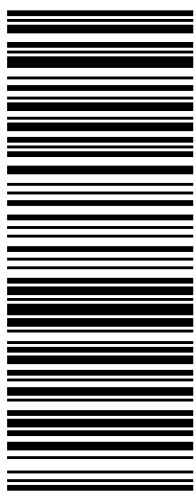

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CVS STORE # 972  
555 WASHINGTON ST  
SOUTH EASTON ,MA 02375

UPS Access Point™  
CVS STORE # 7232  
689 DEPOT ST  
NORTH EASTON ,MA 02356

UPS Access Point™  
TOWN LINE GENERAL STORE  
450 E CENTER ST  
WEST BRIDGEWATER ,MA 02379

FOLD HERE

<p>1 LBS</p> <p>SHIP TO: LAND USE OFFICE LORI ROTELLA, TOWN PLANNER 229 CHURCH STREET <b>NAUGATUCK CT 06770-4145</b></p>	<p>1 OF 1</p> <p><b>CT 067 9-04</b></p> 	<p><b>UPS GROUND</b></p> <p>TRACKING #: 1Z 9Y4 503 03 0959 2224</p> 	<p><b>BILLING: P/P</b></p> <p>Reference # 1: 283423 Reference # 2: Naugatuck West CT</p> 
--	---	--	--

# Proof of Delivery

Dear Customer,

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

**Tracking Number**

1Z9Y45030309592224

**Weight**

1.00 LBS

**Service**

UPS Ground

**Shipped / Billed On**

08/13/2021

**Delivered On**

08/19/2021 9:51 A.M.

**Delivered To**

NAUGATUCK, CT, US

**Received By**

CLERK

**Left At**

Receiver

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 10/20/2021 7:13 A.M. EST



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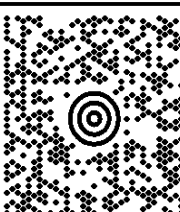
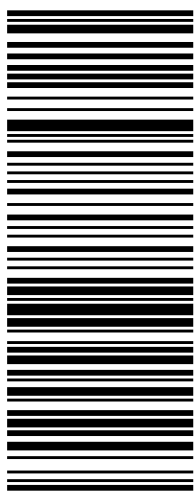

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<p style="text-align: right;"><b>1 OF 1</b></p> <p style="text-align: center;"><b>1 LBS</b></p> <p><b>SHIP TO:</b> FRANKLIN B. ANDREW JR 880 ANDREW MOUNTAIN ROAD <b>NAUGATUCK CT 06770-3621</b></p> <p>MIJUMALI 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p>	<p style="font-size: 2em;"><b>CT 067 9-04</b></p>  	<p style="font-size: 1.5em;"><b>UPS GROUND</b></p> <p>TRACKING #: 1Z 9Y4 503 03 0803 9235</p> 	<p><b>BILLING: P/P</b></p> <p>Reference # 1: 283423 Reference # 2: Naugatuck West CT <small>WVNTNV50 32.OA 08/2021*</small></p> 
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# Proof of Delivery

Dear Customer,

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

**Tracking Number**

1Z9Y45030308039235

**Weight**

1.00 LBS

**Service**

UPS Ground

**Shipped / Billed On**

08/13/2021

**Delivered On**

08/19/2021 2:31 P.M.

**Delivered To**

NAUGATUCK, CT, US

**Received By**

DRIVER RELEASE

**Left At**

Side Door

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 10/20/2021 7:12 A.M. EST

Centerline Communications LLC

028219

CONNECTICUT SITING COUNCIL

Check: 28219  
Date: 8/11/2021  
Vendor: 0

<u>Invoice</u>	<u>P.O. Num.</u>	<u>Invoice Amt</u>	<u>Prior Balance</u>	<u>Retention</u>	<u>Discount</u>	<u>Amt. Paid</u>
531462-004		625.00	625.00	0.00	0.00	625.00
ATC - Verizon-13668711						
		<u>625.00</u>	<u>625.00</u>	<u>0.00</u>	<u>0.00</u>	<u>625.00</u>

**Centerline Communications LLC**

750 W. Center Street  
Suite 301  
W. Bridgewater, MA 02379  
(781) 713-4725

ROCKLAND TRUST COMPANY  
MEDFIELD, MA 02052

53-447/113

028219

28219

DATE

AMOUNT

8/11/2021

\*\*\*\*\*625.00

THE SUM OF SIX HUNDRED TWENTY FIVE DOLLARS AND NO CENTS \*\*\*\*\*

PAY  
TO THE  
ORDER  
OF

CONNECTICUT SITING COUNCIL

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

Security features. Details on back



028219

XXXXXXXXXXXXXXXXXXXX

Mj Umali, Site Acquisition Consultant  
c/o Cellco Partnership d/b/a Verizon Wireless  
Centerline Communications, LLC  
750 West Center Street, Floor 3  
West Bridgewater, MA 02379  
Mobile: (978) 568-7906  
[mumali@clinellc.com](mailto:mumali@clinellc.com)

August 9, 2021

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

**RE: Notice of Exempt Modification // Site: Naugatuck West CT (ATC: 283423)  
880 Andrew Mountain Road, Naugatuck, CT 06770  
N 41.484453 // W 73.089844**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 6 antennas at the 106-foot level mount on the existing 119-foot monopole tower, located at 880 Andrew Mountain Road, Naugatuck, CT. The tower is owned by American Tower. The property is owned by Franklin B. Andrew Jr. The Council approved Verizon Wireless use of the tower in 2013. Verizon Wireless now intends to install Mount modifications for 3 new antennas and 3 new Remote Radio Heads (RRHs). Additionally, Verizon Wireless will remove 2 OVPs and replace with 2 new ones, as well as remove 2 hybrid cables to replace with 2 new ones. Altogether updating leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby.

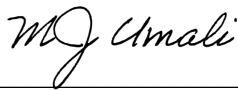
Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Pete Hess III, Mayor for the Town of Naugatuck, Lori Rotella, Town Planner as zoning official, American Tower, the tower owner, and to the ground owner, Franklin B. Andrew Jr.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated June 28<sup>th</sup>, 2021, by Dewberry Engineers, Inc., a structural analysis dated June 16, 2021 by Tower Engineering Professionals, Inc., and a structural mount analysis by Maser Consulting Connecticut dated June 11, 2021 and radio frequency (RF) analysis table showing worst-case RF emission calculation by Verizon Wireless RF Design Engineering.

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis by Tower Engineering Professionals, Inc, dated June 16, 2021 and a structural mount analysis by Maser Consulting Connecticut dated June 11, 2021 pursuant to certain conditions defined therein. Design and engineering is fully illustrated within construction drawings dated, signed and stamped June 28<sup>th</sup> 2021.

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

Sincerely,



---

MJ Umali, Site Acquisition Consultant  
c/o Cellco Partnership d/b/a Verizon Wireless  
Centerline Communications, LLC  
750 West Center Street, Floor 3  
West Bridgewater, MA 02379  
Mobile: (978) 568-7906  
[mumali@clinellc.com](mailto:mumali@clinellc.com)

#### Attachments

cc: Pete Hess III, Mayor for the Town of Naugatuck - as chief elected official  
Lori Rotella as Town Planner - as P&Z official  
American Tower Corporation - as tower owner  
Franklin B. Andrew Jr. - as property owner

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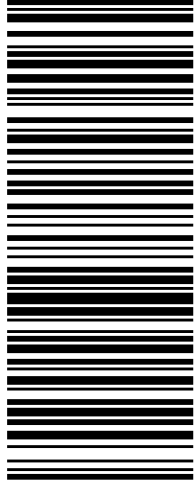

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<p style="text-align: right;"><b>1 OF 1</b></p> <p style="text-align: center;"><b>1 LBS</b></p> <p>MIJMAIL 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p> <p><b>SHIP TO:</b> PETE HESS III, MAYOR 4TH FLOOR 229 CHURCH STREET <b>NAUGATUCK CT 06770-4145</b></p>	<p style="font-size: 2em;"><b>CT 067 9-04</b></p> 	<p style="font-size: 1.5em;"><b>UPS GROUND</b></p> <p>TRACKING #: 1Z 9Y4 503 03 0014 7212</p> 	<p style="text-align: center;"><b>BILLING: P/P</b></p> <p>Reference # 1: 283423 Reference # 2: Naugatuck West CT <small>WVNTNV50 32.OA 08/2021*</small></p> 
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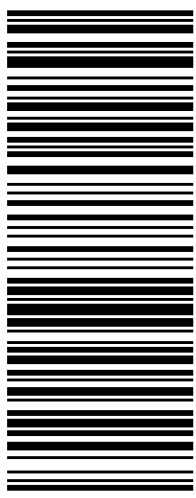

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<p style="text-align: right;"><b>1 OF 1</b></p> <p style="text-align: center;"><b>1 LBS</b></p> <p><b>SHIP TO:</b>          LAND USE OFFICE          LORI ROTELLA, TOWN PLANNER          229 CHURCH STREET  <b>NAUGATUCK CT 06770-4145</b></p>	<p style="font-size: 2em;"><b>CT 067 9-04</b></p> 	<p style="font-size: 1.5em;"><b>UPS GROUND</b></p> <p>TRACKING #: 1Z 9Y4 503 03 0959 2224</p> 	<p style="text-align: center;"><b>BILLING: P/P</b></p> <p>Reference # 1: 283423          Reference # 2: Naugatuck West CT  <small>WVNTNV50 32.OA 08/2021 *</small></p> 
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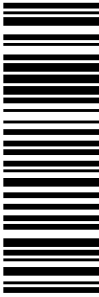
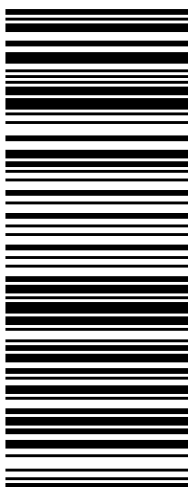
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<p style="text-align: right;"><b>1 OF 1</b></p> <p style="text-align: center;"><b>5 LBS</b></p> <p>SHIP TO: LAND MANAGEMENT 7814287250 AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY <b>WOBURN MA 01801-1053</b></p> <p>MJ UMALT 9785667906 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p>	<p style="font-size: 2em; font-weight: bold;">MA 018 9-04</p> 	<p style="font-size: 1.5em; font-weight: bold;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0742 7577</p> 	<p style="text-align: center;">BILLING: P/P</p> <p style="text-align: center;">Reference # 1: ATC CSC Hard Copies</p> <p style="font-size: 0.8em;">CS 22.0.18. WNTNV50 32.0A 08/2021*</p> 
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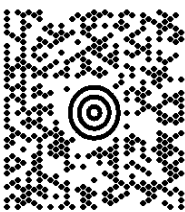

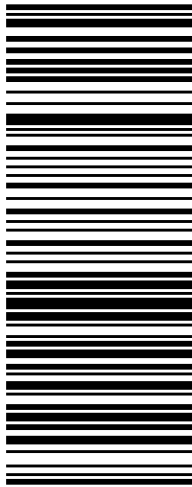

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<p>1 LBS</p> <p>1 OF 1</p> <p>SHIP TO: FRANKLIN B. ANDREW JR 880 ANDREW MOUNTAIN ROAD NAUGATUCK CT 06770-3621</p> <p>MIJUMALI 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p>	<p>CT 067 9-04</p>  	<p><b>UPS GROUND</b></p> <p>TRACKING #: 1Z 9Y4 503 03 0803 9235</p> 	<p>BILLING: P/P</p> <p>Reference # 1: 283423 Reference # 2: Naugatuck West CT <small>WVNTNV50 32.OA 08/2021*</small></p> 
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**AMERICAN TOWER®**  
CORPORATION

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## Structural Analysis Report

**Structure** : 119 ft Monopole  
**ATC Site Name** : NAUGATUCK CT, CT  
**ATC Asset Number** : 283423  
**Engineering Number** : 13668711\_C3\_01  
**Proposed Carrier** : VERIZON WIRELESS  
**Carrier Site Name** : NAUGATUCK WEST CT  
**Carrier Site Number** : 469151  
**Site Location** : 880 Andrew Mountain Road  
Naugatuck, CT 06770-3656  
41.484500,-73.089800  
**County** : New Haven  
**Date** : May 6, 2021  
**Max Usage** : 41%  
**Result** : Pass



Prepared By:  
Christopher Jolly  
Structural Engineer III

Reviewed By:

**COA: PEC.0001553**



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Calculations .....	Attached



## Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 119 ft monopole to reflect the change in loading by VERIZON WIRELESS.

## Supporting Documents

<b>Tower Drawings</b>	TransAmerican DaVinci Job #11235-1298, dated June 14, 2011
<b>Foundation Drawing</b>	TransAmerican DaVinci Job #11235-1298, dated June 14, 2011
<b>Geotechnical Report</b>	Terracon Project #J2115128, dated May 10, 2011

## Analysis

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

<b>Basic Wind Speed:</b>	117 mph (3-Second Gust)
<b>Basic Wind Speed w/ Ice:</b>	50 mph (3-Second Gust) w/ 1" radial ice concurrent
<b>Code:</b>	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
<b>Exposure Category:</b>	B
<b>Risk Category:</b>	II
<b>Topographic Factor Procedure:</b>	Method 1
<b>Topographic Category:</b>	1
<b>Crest Height (H):</b>	0 ft
<b>Spectral Response:</b>	$S_s = 0.20, S_1 = 0.05$
<b>Site Class:</b>	D - Stiff Soil

## Conclusion

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

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



**Existing and Reserved Equipment**

Elev. <sup>1</sup> (ft)	Qty	Equipment	Mount Type	Lines	Carrier
119.0	4	Raycap DC6-48-60-18-8F	Platform with Handrails	(4) 0.39" (10mm) Fiber Trunk (2) 0.40" (10.3mm) Fiber (8) 0.78" (19.7mm) 8 AWG 6 (3) 3/8" (0.38"- 9.5mm) RET Control Cable	AT&T MOBILITY
	3	Ericsson RRUS 4478 B14 (15")			
	3	Ericsson RRUS 32 (50.8 lbs)			
	3	Ericsson RRUS 32 B66A			
	3	Ericsson RRUS 32 B2			
	9	Ericsson RRUS-11			
	9	CCI HPA-65R-BUU-H8			
	3	Kathrein Scala 80010966			
106.0	3	Commscope CBC78T-DS-43-2X	Low Profile Platform	(6) 1 5/8" Coax (1) 1 5/8" Hybriflex	VERIZON WIRELESS
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			
	2	Raycap RCMDC-6627-PF-48			
	4	Commscope JAHH-65B-R3B			
	2	Commscope JAHH-45B-R3B			

**Equipment to be Removed**

Elev. <sup>1</sup> (ft)	Qty	Equipment	Mount Type	Lines	Carrier
No loading was considered as removed as part of this analysis.					

**Proposed Equipment**

Elev. <sup>1</sup> (ft)	Qty	Equipment	Mount Type	Lines	Carrier
106.0	3	Samsung MT6407-77A	Low Profile Platform	(1) 1 5/8" Hybriflex	VERIZON WIRELESS

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

Install proposed coax inside the pole shaft.



**Structure Usages**

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	41%	Pass
Shaft	38%	Pass
Base Plate	17%	Pass

**Foundations**

Reaction Component	Original Design Reactions	Analysis Reactions	% of Design
Moment (Kips-Ft)	3,850.0	1,446.4	38%
Shear (Kips)	42.0	16.7	40%

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

**Deflection and Sway\***

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
106.0	Samsung MT6407-77A	VERIZON WIRELESS	0.403	0.415

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



## Standard Conditions

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

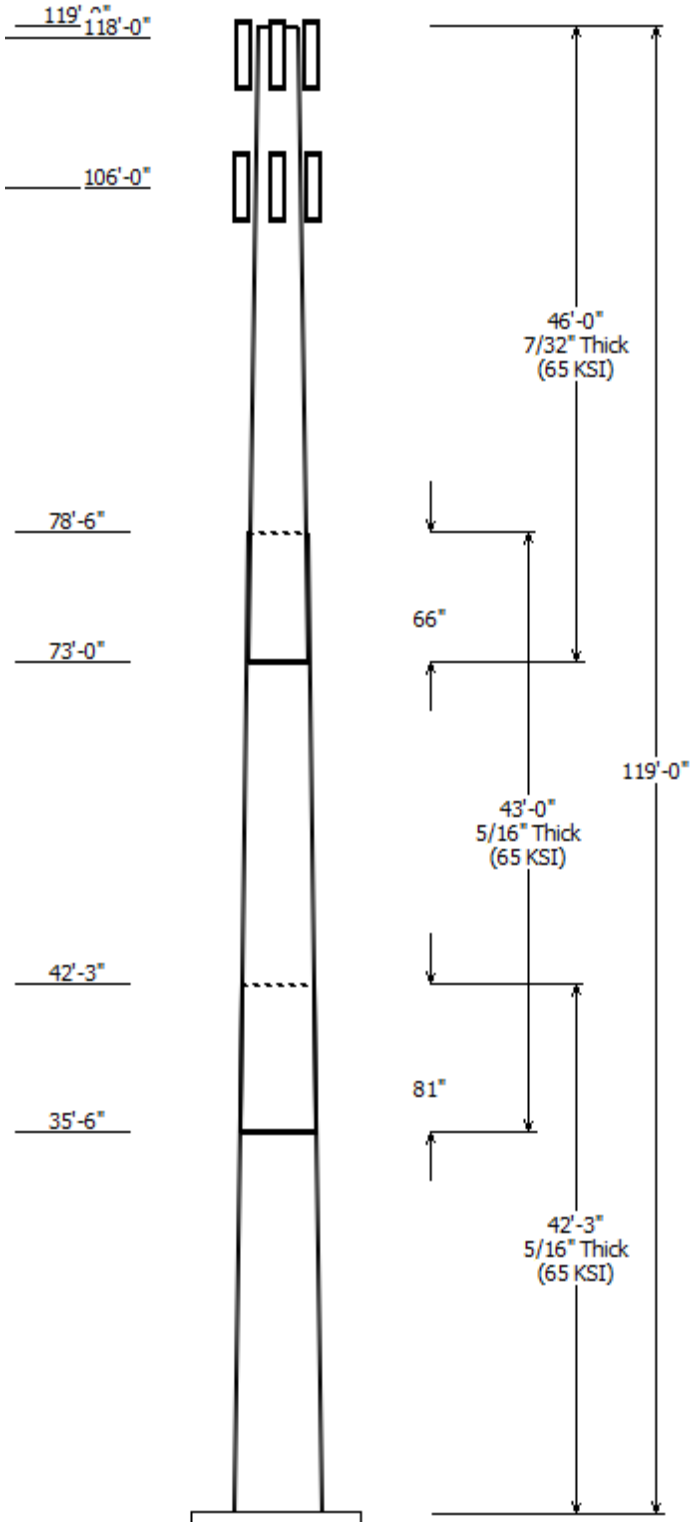
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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

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

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

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



Job Information	
Client : VERIZON WIRELESS	Code: ANSI/TIA-222-H
Pole : 283423	
Location : NAUGATUCK CT, CT	
Description :	Risk Category : II
Shape : 18 Sides	Exposure : B
Height : 119.00 (ft)	Topo Method : Method 1
Base Elev (ft): 0.00	Topographic Category : 1
Taper: 0.257182in/ft	

Sections Properties						
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Overlap Length (in)	Steel Grade
		Top	Bottom			
1	42.250	46.13	57.00	0.313	0.000	18 Sides 65
2	43.000	37.43	48.49	0.313	81.000	18 Sides 65
3	46.000	27.45	39.28	0.219	66.000	18 Sides 65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
119.000	118.000	3	Kathrein Scala 80010966
119.000	118.000	9	CCI HPA-65R-BUU-H8
119.000	118.000	9	Ericsson RRUS-11
119.000	119.000	3	Ericsson RRUS 32 B2
119.000	119.000	3	Ericsson RRUS 32 B66A
119.000	118.000	3	Ericsson RRUS 32 (50.8 lbs)
119.000	118.000	3	Ericsson RRUS 4478 B14 (15")
119.000	118.000	4	Raycap DC6-48-60-18-8F
118.000	118.000	1	Generic Round Platform with
106.000	106.000	1	Generic Round Low Profile
106.000	106.000	2	Commscope JAHH-45B-R3B
106.000	106.000	4	Commscope JAHH-65B-R3B
106.000	106.000	3	Samsung MT6407-77A
106.000	106.000	2	Raycap RCMDC-6627-PF-48
106.000	106.000	3	Samsung B5/B13 RRH-BR04C
106.000	106.000	3	Commscope CBC78T-DS-43-2X
106.000	106.000	3	Samsung B2/B66A RRH-BR049

Linear Appurtenance			
From Elev (ft)	To Elev (ft)	Description	Exposed To Wind
0.000	106.0	1 5/8" Coax	No
0.000	106.0	1 5/8" Hybriflex	No
0.000	106.0	1 5/8" Hybriflex	No
0.000	119.0	0.39" (10mm)	No
0.000	119.0	0.40" (10.3mm)	No
0.000	119.0	0.78" (19.7mm) 8	No
0.000	119.0	3/8" (0.38")	No

Load Cases	
1.2D + 1.0W	117 mph with No Ice
0.9D + 1.0W	117 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph



119'-0"  
118'-0"

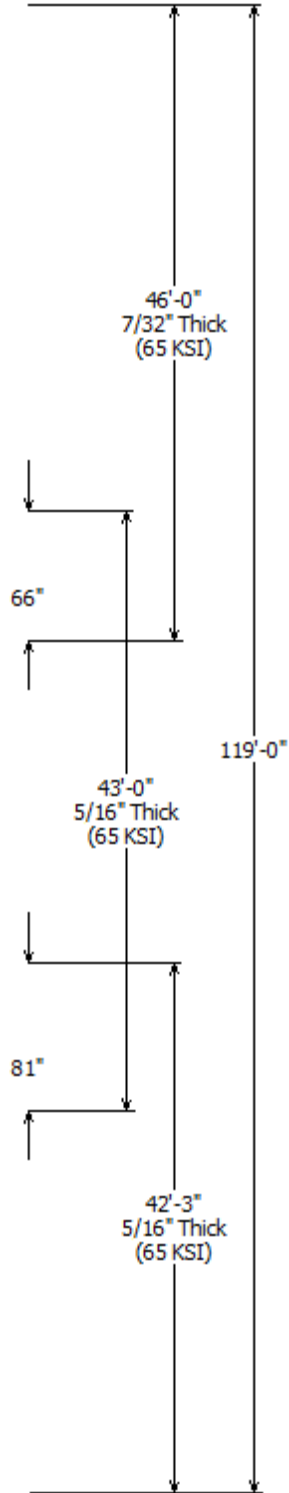
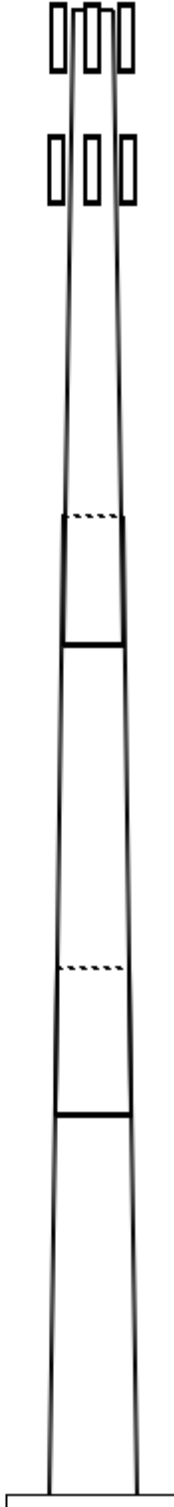
106'-0"

78'-6"

73'-0"

42'-3"

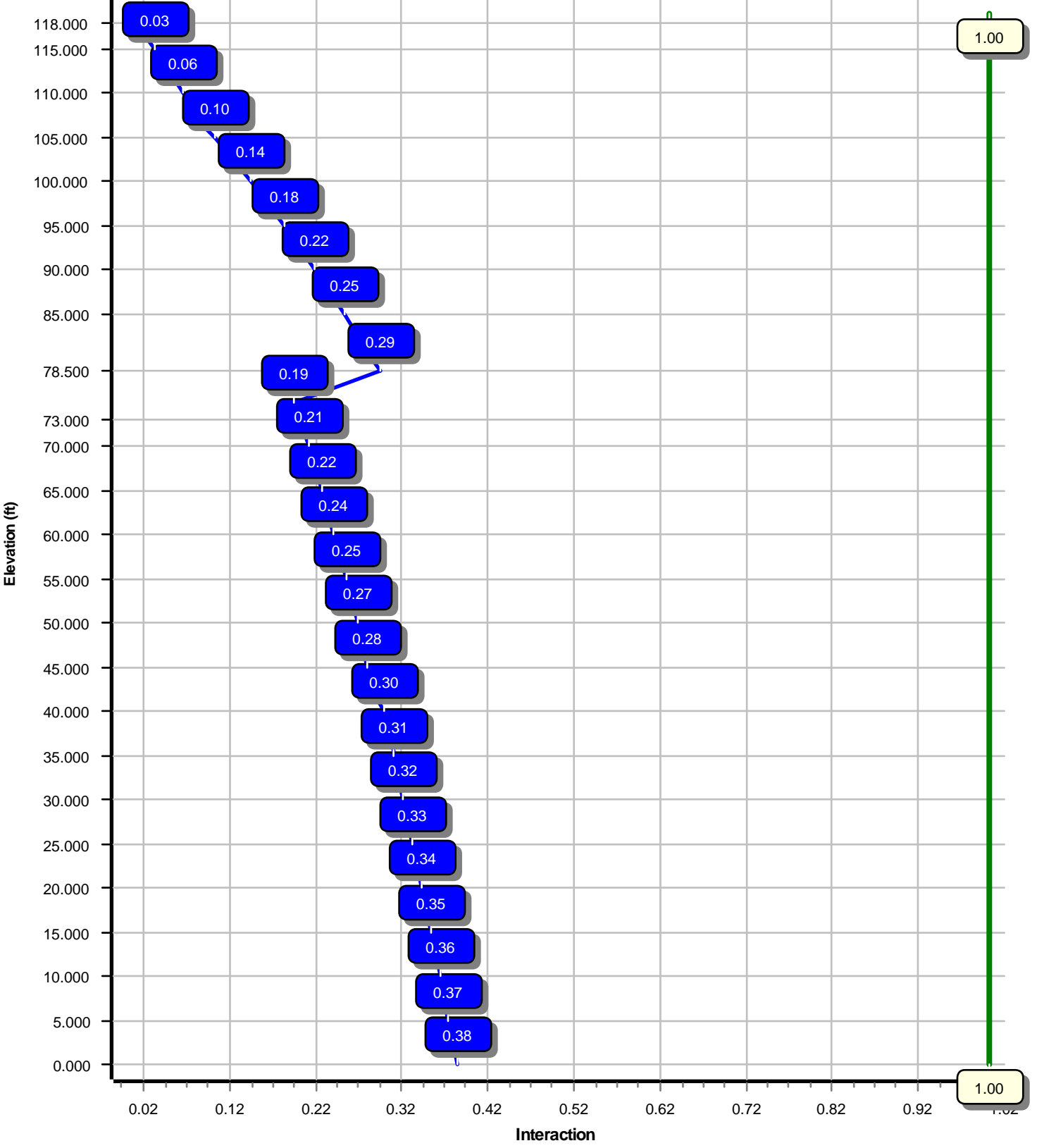
35'-6"



Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.0W	1446.44	16.71	31.65
0.9D + 1.0W	1438.58	16.71	23.73
1.2D + 1.0Di + 1.0Wi	386.78	4.64	43.11
1.2D + 1.0Ev + 1.0Eh	98.96	1.01	31.51
0.9D - 1.0Ev + 1.0Eh	98.29	1.01	21.78
1.0D + 1.0W	339.12	3.93	26.39

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

**Load Case : 1.2D + 1.0W**  
**Max Ratio 38.23% at 0.0 ft**



Site Number: 283423

Code: ANSI/TIA-222-H

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Site Name: NAUGATUCK CT, CT

Engineering Number: 13668711\_C3\_01

5/6/2021 10:16:19 AM

Customer: VERIZON WIRELESS

Analysis Parameters

Location :	New Haven County, CT	Height (ft) :	119
Code :	ANSI/TIA-222-H	Base Diameter (in) :	57.00
Shape :	18 Sides	Top Diameter (in) :	27.46
Pole Type :	Taper	Taper (in/ft) :	0.257
Pole Manufacturer :	TransAmerican	Rotation (deg) :	0.00
Kd (non-service) :	0.95	Ke :	0.97

Ice & Wind Parameters

Exposure Category:	B	Design Wind Speed Without Ice:	117 mph
Risk Category:	II	Design Wind Speed With Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	854.00 ft

Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	1.51		
T <sub>L</sub> (sec):	6	p:	1
S <sub>s</sub> :	0.196	S <sub>1</sub> :	0.054
F <sub>a</sub> :	1.600	F <sub>v</sub> :	2.400
S <sub>ds</sub> :	0.209	S <sub>d1</sub> :	0.086
		C <sub>s</sub> :	0.038
		C <sub>s</sub> Max:	0.038
		C <sub>s</sub> Min:	0.030

Load Cases

1.2D + 1.0W	117 mph with No Ice
0.9D + 1.0W	117 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Site Number: 283423

Code: ANSI/TIA-222-H

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Site Name: NAUGATUCK CT, CT

Engineering Number: 13668711\_C3\_01

5/6/2021 10:16:19 AM

Customer: VERIZON WIRELESS

**Shaft Section Properties**

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	42.250	0.3125	65		0.00	7,309	57.00	0.00	56.22	22827.4	30.40	182.40	46.13	42.25	45.45	12056.0	24.27	147.63	0.257182
2-18	43.000	0.3125	65	Slip	81.00	6,190	48.49	35.50	47.79	14017.3	25.60	155.18	37.43	78.50	36.82	6411.4	19.36	119.80	0.257182
3-18	46.000	0.2188	65	Slip	66.00	3,604	39.28	73.00	27.13	5232.5	29.90	179.56	27.45	119.00	18.92	1773.3	20.36	125.49	0.257182
Shaft Weight						17,103													

**Discrete Appurtenance Properties**

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	Weight (lb)	No Ice EPAa (sf)	Orientation Factor	Weight (lb)	Ice EPAa (sf)	Orientation Factor
119.00	Raycap DC6-48-60-18-8F	4	0.75	-1.000	20.00	1.260	0.50	54.35	1.690	0.50
119.00	Ericsson RRUS 4478 B14 (15")	3	0.75	-1.000	59.40	1.650	0.50	91.83	2.203	0.50
119.00	Ericsson RRUS 32 (50.8 lbs)	3	0.75	-1.000	50.80	2.692	0.67	97.47	3.446	0.67
119.00	Ericsson RRUS 32 B66A	3	0.75	0.000	50.70	2.720	0.67	98.52	3.479	0.67
119.00	Ericsson RRUS 32 B2	3	0.75	0.000	53.00	2.743	0.67	100.99	3.506	0.67
119.00	Ericsson RRUS-11	9	0.75	-1.000	55.00	3.792	0.61	113.58	4.630	0.61
119.00	CCI HPA-65R-BUU-H8	9	0.75	-1.000	68.00	12.976	0.67	235.65	15.312	0.67
119.00	Kathrein Scala 80010966	3	0.75	-1.000	114.60	17.363	0.63	324.11	19.770	0.63
118.00	Generic Round Platform with	1	1.00	0.000	2,500.00	27.200	1.00	3,555.03	43.122	1.00
106.00	Commscope CBC78T-DS-43-2X	3	0.80	0.000	20.70	0.552	0.50	34.95	0.880	0.50
106.00	Samsung B5/B13 RRH-BR04C	3	0.80	0.000	70.30	1.875	0.50	107.19	2.457	0.50
106.00	Samsung B2/B66A RRH-BR049	3	0.80	0.000	84.40	1.875	0.50	125.54	2.457	0.50
106.00	Raycap RCMDC-6627-PF-48	2	0.80	0.000	32.00	4.056	0.79	113.97	4.936	0.79
106.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	147.34	5.689	0.61
106.00	Commscope JAHH-65B-R3B	4	0.80	0.000	60.60	9.113	0.69	191.07	10.902	0.69
106.00	Commscope JAHH-45B-R3B	2	0.80	0.000	83.80	11.400	0.73	231.17	13.198	0.73
106.00	Generic Round Low Profile	1	1.00	0.000	1,875.00	21.700	1.00	2,397.31	34.082	1.00
Totals	Num Loadings:17	59			7,792.50			14,151.17		

**Linear Appurtenance Properties**

Load Case Azimuth (deg) :

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Max Coax / Flat Row	Dist Between Rows (in)	Dist Between Cols (in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind Carrier
0.00	119.00	4	0.39" (10mm) Fiber	0.39	0.06	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	119.00	2	0.40" (10.3mm) Fiber	0.40	0.09	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	119.00	8	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	119.00	3	3/8" (0.38"- 9.5mm)	0.38	0.23	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	106.00	6	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	N VERIZON WIRELESS
0.00	106.00	1	1 5/8" Hybriflex	1.98	1.30	N	0	0.00	0.00	0	N VERIZON WIRELESS
0.00	106.00	1	1 5/8" Hybriflex	1.98	1.30	N	0	0.00	0.00	0	N VERIZON WIRELESS

Segment Properties (Max Len : 5. ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	F'y (ksi)	S (in <sup>3</sup> )	Z (in <sup>3</sup> )	Weight (lb)
0.00		0.3125	57.000	56.225	22,827.4	30.40	182.40	65.6	788.8	0.0	0.0
5.00		0.3125	55.714	54.949	21,308.9	29.67	178.29	66.5	753.3	0.0	945.8
10.00		0.3125	54.428	53.674	19,859.3	28.95	174.17	67.4	718.7	0.0	924.1
15.00		0.3125	53.142	52.399	18,477.0	28.22	170.06	68.2	684.8	0.0	902.4
20.00		0.3125	51.856	51.123	17,160.3	27.50	165.94	69.1	651.8	0.0	880.7
25.00		0.3125	50.570	49.848	15,907.8	26.77	161.83	69.9	619.6	0.0	859.0
30.00		0.3125	49.285	48.572	14,717.7	26.05	157.71	70.8	588.2	0.0	837.3
35.00		0.3125	47.999	47.297	13,588.5	25.32	153.60	71.6	557.6	0.0	815.6
35.50	Bot - Section 2	0.3125	47.870	47.169	13,478.9	25.25	153.18	71.7	554.6	0.0	80.4
40.00		0.3125	46.713	46.022	12,518.6	24.59	149.48	72.5	527.8	0.0	1,436.5
42.25	Top - Section 1	0.3125	46.759	46.068	12,556.1	24.62	149.63	72.4	528.9	0.0	705.1
45.00		0.3125	46.052	45.366	11,991.2	24.22	147.37	72.9	512.9	0.0	427.8
50.00		0.3125	44.766	44.091	11,008.0	23.50	143.25	73.8	484.3	0.0	761.0
55.00		0.3125	43.480	42.815	10,080.1	22.77	139.14	74.6	456.6	0.0	739.3
60.00		0.3125	42.194	41.540	9,205.9	22.04	135.02	75.5	429.7	0.0	717.6
65.00		0.3125	40.908	40.264	8,383.7	21.32	130.91	76.3	403.7	0.0	695.9
70.00		0.3125	39.622	38.989	7,612.0	20.59	126.79	77.2	378.4	0.0	674.2
73.00	Bot - Section 3	0.3125	38.851	38.224	7,172.5	20.16	124.32	77.7	363.6	0.0	394.1
75.00		0.3125	38.336	37.714	6,889.1	19.87	122.68	78.0	353.9	0.0	441.8
78.50	Top - Section 2	0.2188	37.874	26.149	4,684.5	28.76	173.10	67.6	243.6	0.0	759.0
80.00		0.2188	37.488	25.882	4,542.0	28.45	171.33	67.9	238.6	0.0	132.8
85.00		0.2188	36.202	24.989	4,087.9	27.41	165.46	69.2	222.4	0.0	432.7
90.00		0.2188	34.916	24.096	3,665.1	26.38	159.58	70.4	206.7	0.0	417.6
95.00		0.2188	33.630	23.203	3,272.5	25.34	153.70	71.6	191.7	0.0	402.4
100.0		0.2188	32.344	22.310	2,909.0	24.30	147.83	72.8	177.1	0.0	387.2
105.0		0.2188	31.059	21.417	2,573.5	23.27	141.95	74.0	163.2	0.0	372.0
106.0		0.2188	30.801	21.238	2,509.6	23.06	140.77	74.3	160.5	0.0	72.6
110.0		0.2188	29.773	20.524	2,264.8	22.23	136.07	75.3	149.8	0.0	284.2
115.0		0.2188	28.487	19.631	1,981.9	21.19	130.20	76.5	137.0	0.0	341.6
118.0		0.2188	27.715	19.095	1,824.0	20.57	126.67	77.2	129.6	0.0	197.7
119.0		0.2188	27.458	18.916	1,773.3	20.36	125.49	77.4	127.2	0.0	64.7
17,102.5											

<b>Load Case:</b> 1.2D + 1.0W	117 mph with No Ice	19 Iterations
Gust Response Factor :1.10		
Dead Load Factor :1.20		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		216.3	0.0					0.0	0.0	216.3	0.0	0.0	0.0
5.00		427.7	1,134.9					0.0	80.1	427.7	1,215.0	0.0	0.0
10.00		417.8	1,108.9					0.0	80.1	417.8	1,189.0	0.0	0.0
15.00		407.9	1,082.8					0.0	80.1	407.9	1,162.9	0.0	0.0
20.00		398.1	1,056.8					0.0	80.1	398.1	1,136.9	0.0	0.0
25.00		388.2	1,030.7					0.0	80.1	388.2	1,110.8	0.0	0.0
30.00		382.8	1,004.7					0.0	80.1	382.8	1,084.8	0.0	0.0
35.00		210.5	978.7					0.0	80.1	210.5	1,058.8	0.0	0.0
35.50	Bot - Section 2	196.2	96.4					0.0	8.0	196.2	104.4	0.0	0.0
40.00		265.9	1,723.8					0.0	72.1	265.9	1,795.9	0.0	0.0
42.25	Top - Section 1	198.1	846.1					0.0	36.0	198.1	882.1	0.0	0.0
45.00		308.0	513.4					0.0	44.1	308.0	557.4	0.0	0.0
50.00		397.8	913.2					0.0	80.1	397.8	993.3	0.0	0.0
55.00		397.1	887.2					0.0	80.1	397.1	967.3	0.0	0.0
60.00		395.0	861.1					0.0	80.1	395.0	941.2	0.0	0.0
65.00		391.9	835.1					0.0	80.1	391.9	915.2	0.0	0.0
70.00		310.9	809.0					0.0	80.1	310.9	889.1	0.0	0.0
73.00	Bot - Section 3	193.5	472.9					0.0	48.1	193.5	521.0	0.0	0.0
75.00		212.4	530.2					0.0	32.0	212.4	562.2	0.0	0.0
78.50	Top - Section 2	192.1	910.8					0.0	56.1	192.1	966.9	0.0	0.0
80.00		246.3	159.3					0.0	24.0	246.3	183.4	0.0	0.0
85.00		374.4	519.3					0.0	80.1	374.4	599.4	0.0	0.0
90.00		367.1	501.1					0.0	80.1	367.1	581.2	0.0	0.0
95.00		359.1	482.8					0.0	80.1	359.1	562.9	0.0	0.0
100.00		350.5	464.6					0.0	80.1	350.5	544.7	0.0	0.0
105.00		207.0	446.4					0.0	80.1	207.0	526.5	0.0	0.0
106.00	Appurtenance(s)	168.2	87.1	2,580.2	0.0	0.0	3,744.0	0.0	16.0	2,748.4	3,847.1	0.0	0.0
110.00		297.5	341.1					0.0	28.0	297.5	369.0	0.0	0.0
115.00		258.7	409.9					0.0	35.0	258.7	444.9	0.0	0.0
118.00	Appurtenance(s)	126.8	237.2	1,000.6	0.0	0.0	3,000.0	0.0	21.0	1,127.4	3,258.2	0.0	0.0
119.00	Appurtenance(s)	31.4	77.6	4,229.4	0.0	-3,925.7	2,607.0	0.0	7.0	4,260.8	2,691.6	0.0	0.0
Totals:										16,905.4	31,663.1	0.00	0.00

**Load Case: 1.2D + 1.0W**

117 mph with No Ice

19 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.20

Wind Load Factor :1.00

**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-31.65	-16.71	0.00	-1,446.44	0.00	1,446.44	3,321.87	986.75	5,051.94	3,883.62	0.00	0.00	0.382
5.00	-30.41	-16.33	0.00	-1,362.87	0.00	1,362.87	3,288.72	964.36	4,825.36	3,757.16	0.05	-0.09	0.372
10.00	-29.20	-15.96	0.00	-1,281.22	0.00	1,281.22	3,253.61	941.98	4,603.98	3,630.29	0.19	-0.18	0.362
15.00	-28.01	-15.59	0.00	-1,201.44	0.00	1,201.44	3,216.54	919.60	4,387.80	3,503.16	0.42	-0.26	0.352
20.00	-26.85	-15.23	0.00	-1,123.50	0.00	1,123.50	3,177.52	897.21	4,176.81	3,375.93	0.75	-0.35	0.342
25.00	-25.72	-14.87	0.00	-1,047.38	0.00	1,047.38	3,136.53	874.83	3,971.03	3,248.74	1.17	-0.44	0.331
30.00	-24.62	-14.52	0.00	-973.03	0.00	973.03	3,093.58	852.45	3,770.44	3,121.77	1.68	-0.53	0.320
35.00	-23.55	-14.32	0.00	-900.45	0.00	900.45	3,048.68	830.06	3,575.05	2,995.16	2.29	-0.63	0.309
35.50	-23.44	-14.14	0.00	-893.29	0.00	893.29	3,044.08	827.82	3,555.80	2,982.53	2.35	-0.63	0.307
40.00	-21.63	-13.87	0.00	-829.67	0.00	829.67	3,001.81	807.68	3,384.86	2,869.08	2.99	-0.72	0.297
42.25	-20.74	-13.68	0.00	-798.46	0.00	798.46	3,003.54	808.49	3,391.62	2,873.61	3.34	-0.76	0.285
45.00	-20.17	-13.39	0.00	-760.84	0.00	760.84	2,976.96	796.17	3,289.13	2,804.53	3.79	-0.81	0.278
50.00	-19.16	-13.01	0.00	-693.89	0.00	693.89	2,927.13	773.79	3,106.81	2,679.53	4.69	-0.89	0.266
55.00	-18.18	-12.62	0.00	-628.87	0.00	628.87	2,875.34	751.41	2,929.68	2,555.45	5.67	-0.98	0.253
60.00	-17.23	-12.23	0.00	-565.77	0.00	565.77	2,821.60	729.02	2,757.76	2,432.44	6.74	-1.06	0.239
65.00	-16.31	-11.85	0.00	-504.61	0.00	504.61	2,765.89	706.64	2,591.03	2,310.67	7.90	-1.15	0.225
70.00	-15.41	-11.53	0.00	-445.38	0.00	445.38	2,708.22	684.26	2,429.50	2,190.28	9.15	-1.23	0.209
73.00	-14.89	-11.34	0.00	-410.77	0.00	410.77	2,672.68	670.83	2,335.08	2,118.77	9.94	-1.28	0.200
75.00	-14.32	-11.13	0.00	-388.09	0.00	388.09	2,648.59	661.87	2,273.17	2,071.43	10.48	-1.31	0.193
78.50	-13.35	-10.92	0.00	-349.15	0.00	349.15	1,590.36	458.92	1,560.74	1,234.68	11.46	-1.36	0.292
80.00	-13.16	-10.68	0.00	-332.78	0.00	332.78	1,582.58	454.22	1,528.93	1,215.98	11.89	-1.38	0.283
85.00	-12.56	-10.31	0.00	-279.36	0.00	279.36	1,555.39	438.55	1,425.25	1,153.62	13.39	-1.48	0.251
90.00	-11.97	-9.95	0.00	-227.79	0.00	227.79	1,526.24	422.88	1,325.22	1,091.30	14.99	-1.57	0.217
95.00	-11.41	-9.59	0.00	-178.04	0.00	178.04	1,495.12	407.20	1,228.82	1,029.18	16.67	-1.65	0.181
100.00	-10.86	-9.23	0.00	-130.10	0.00	130.10	1,462.05	391.53	1,136.06	967.43	18.44	-1.71	0.142
105.00	-10.34	-9.02	0.00	-83.93	0.00	83.93	1,427.02	375.86	1,046.94	906.20	20.26	-1.77	0.100
106.00	-6.57	-6.15	0.00	-74.91	0.00	74.91	1,419.78	372.73	1,029.56	894.03	20.63	-1.77	0.089
110.00	-6.21	-5.85	0.00	-50.30	0.00	50.30	1,390.04	360.19	961.47	845.65	22.13	-1.80	0.064
115.00	-5.77	-5.58	0.00	-21.07	0.00	21.07	1,351.09	344.52	879.63	785.93	24.03	-1.83	0.031
118.00	-2.55	-4.34	0.00	-4.34	0.00	4.34	1,326.78	335.11	832.27	750.56	25.18	-1.83	0.008
119.00	0.00	-4.26	0.00	0.00	0.00	0.00	1,318.52	331.98	816.78	738.86	25.57	-1.83	0.000

**Load Case:** 0.9D + 1.0W 117 mph with No Ice (Reduced DL) 19 Iterations

Gust Response Factor :1.10  
 Dead Load Factor :0.90  
 Wind Load Factor :1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		216.3	0.0					0.0	0.0	216.3	0.0	0.0	0.0
5.00		427.7	851.2					0.0	60.1	427.7	911.3	0.0	0.0
10.00		417.8	831.6					0.0	60.1	417.8	891.7	0.0	0.0
15.00		407.9	812.1					0.0	60.1	407.9	872.2	0.0	0.0
20.00		398.1	792.6					0.0	60.1	398.1	852.7	0.0	0.0
25.00		388.2	773.1					0.0	60.1	388.2	833.1	0.0	0.0
30.00		382.8	753.5					0.0	60.1	382.8	813.6	0.0	0.0
35.00		210.5	734.0					0.0	60.1	210.5	794.1	0.0	0.0
35.50	Bot - Section 2	196.2	72.3					0.0	6.0	196.2	78.3	0.0	0.0
40.00		265.9	1,292.8					0.0	54.1	265.9	1,346.9	0.0	0.0
42.25	Top - Section 1	198.1	634.6					0.0	27.0	198.1	661.6	0.0	0.0
45.00		308.0	385.0					0.0	33.0	308.0	418.1	0.0	0.0
50.00		397.8	684.9					0.0	60.1	397.8	745.0	0.0	0.0
55.00		397.1	665.4					0.0	60.1	397.1	725.4	0.0	0.0
60.00		395.0	645.8					0.0	60.1	395.0	705.9	0.0	0.0
65.00		391.9	626.3					0.0	60.1	391.9	686.4	0.0	0.0
70.00		310.9	606.8					0.0	60.1	310.9	666.9	0.0	0.0
73.00	Bot - Section 3	193.5	354.7					0.0	36.0	193.5	390.7	0.0	0.0
75.00		212.4	397.6					0.0	24.0	212.4	421.7	0.0	0.0
78.50	Top - Section 2	192.1	683.1					0.0	42.1	192.1	725.1	0.0	0.0
80.00		246.3	119.5					0.0	18.0	246.3	137.5	0.0	0.0
85.00		374.4	389.5					0.0	60.1	374.4	449.5	0.0	0.0
90.00		367.1	375.8					0.0	60.1	367.1	435.9	0.0	0.0
95.00		359.1	362.1					0.0	60.1	359.1	422.2	0.0	0.0
100.00		350.5	348.5					0.0	60.1	350.5	408.5	0.0	0.0
105.00		207.0	334.8					0.0	60.1	207.0	394.9	0.0	0.0
106.00	Appurtenance(s)	168.2	65.3	2,580.2	0.0	0.0	2,808.0	0.0	12.0	2,748.4	2,885.3	0.0	0.0
110.00		297.5	255.8					0.0	21.0	297.5	276.8	0.0	0.0
115.00		258.7	307.4					0.0	26.2	258.7	333.7	0.0	0.0
118.00	Appurtenance(s)	126.8	177.9	1,000.6	0.0	0.0	2,250.0	0.0	15.7	1,127.4	2,443.6	0.0	0.0
119.00	Appurtenance(s)	31.4	58.2	4,229.4	0.0	-3,925.7	1,955.2	0.0	5.2	4,260.8	2,018.7	0.0	0.0
<b>Totals:</b>										16,905.4	23,747.3	0.00	0.00



**Load Case:** 0.9D + 1.0W

117 mph with No Ice (Reduced DL)

19 Iterations

Gust Response Factor :1.10

Dead Load Factor :0.90

Wind Load Factor :1.00

**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-23.73	-16.71	0.00	-1,438.58	0.00	1,438.58	3,321.87	986.75	5,051.94	3,883.62	0.00	0.00	0.378
5.00	-22.80	-16.31	0.00	-1,355.05	0.00	1,355.05	3,288.72	964.36	4,825.36	3,757.16	0.05	-0.09	0.368
10.00	-21.88	-15.93	0.00	-1,273.48	0.00	1,273.48	3,253.61	941.98	4,603.98	3,630.29	0.19	-0.17	0.358
15.00	-20.99	-15.55	0.00	-1,193.84	0.00	1,193.84	3,216.54	919.60	4,387.80	3,503.16	0.42	-0.26	0.348
20.00	-20.11	-15.18	0.00	-1,116.10	0.00	1,116.10	3,177.52	897.21	4,176.81	3,375.93	0.74	-0.35	0.337
25.00	-19.26	-14.81	0.00	-1,040.22	0.00	1,040.22	3,136.53	874.83	3,971.03	3,248.74	1.16	-0.44	0.327
30.00	-18.43	-14.45	0.00	-966.15	0.00	966.15	3,093.58	852.45	3,770.44	3,121.77	1.67	-0.53	0.316
35.00	-17.62	-14.25	0.00	-893.89	0.00	893.89	3,048.68	830.06	3,575.05	2,995.16	2.27	-0.62	0.305
35.50	-17.54	-14.07	0.00	-886.77	0.00	886.77	3,044.08	827.82	3,555.80	2,982.53	2.34	-0.63	0.303
40.00	-16.18	-13.80	0.00	-823.47	0.00	823.47	3,001.81	807.68	3,384.86	2,869.08	2.97	-0.71	0.293
42.25	-15.51	-13.61	0.00	-792.42	0.00	792.42	3,003.54	808.49	3,391.62	2,873.61	3.32	-0.75	0.281
45.00	-15.08	-13.31	0.00	-754.99	0.00	754.99	2,976.96	796.17	3,289.13	2,804.53	3.77	-0.80	0.275
50.00	-14.32	-12.92	0.00	-688.44	0.00	688.44	2,927.13	773.79	3,106.81	2,679.53	4.66	-0.89	0.262
55.00	-13.58	-12.54	0.00	-623.82	0.00	623.82	2,875.34	751.41	2,929.68	2,555.45	5.63	-0.97	0.249
60.00	-12.87	-12.15	0.00	-561.14	0.00	561.14	2,821.60	729.02	2,757.76	2,432.44	6.70	-1.06	0.236
65.00	-12.17	-11.76	0.00	-500.41	0.00	500.41	2,765.89	706.64	2,591.03	2,310.67	7.85	-1.14	0.221
70.00	-11.50	-11.45	0.00	-441.61	0.00	441.61	2,708.22	684.26	2,429.50	2,190.28	9.09	-1.22	0.206
73.00	-11.10	-11.25	0.00	-407.27	0.00	407.27	2,672.68	670.83	2,335.08	2,118.77	9.87	-1.27	0.197
75.00	-10.68	-11.04	0.00	-384.76	0.00	384.76	2,648.59	661.87	2,273.17	2,071.43	10.41	-1.30	0.190
78.50	-9.95	-10.84	0.00	-346.13	0.00	346.13	1,590.36	458.92	1,560.74	1,234.68	11.38	-1.35	0.287
80.00	-9.81	-10.60	0.00	-329.87	0.00	329.87	1,582.58	454.22	1,528.93	1,215.98	11.81	-1.37	0.278
85.00	-9.35	-10.23	0.00	-276.89	0.00	276.89	1,555.39	438.55	1,425.25	1,153.62	13.30	-1.47	0.247
90.00	-8.91	-9.86	0.00	-225.75	0.00	225.75	1,526.24	422.88	1,325.22	1,091.30	14.88	-1.56	0.213
95.00	-8.49	-9.50	0.00	-176.45	0.00	176.45	1,495.12	407.20	1,228.82	1,029.18	16.56	-1.63	0.178
100.00	-8.08	-9.15	0.00	-128.94	0.00	128.94	1,462.05	391.53	1,136.06	967.43	18.31	-1.70	0.139
105.00	-7.69	-8.93	0.00	-83.20	0.00	83.20	1,427.02	375.86	1,046.94	906.20	20.12	-1.75	0.098
106.00	-4.89	-6.10	0.00	-74.27	0.00	74.27	1,419.78	372.73	1,029.56	894.03	20.49	-1.76	0.087
110.00	-4.62	-5.79	0.00	-49.88	0.00	49.88	1,390.04	360.19	961.47	845.65	21.97	-1.79	0.063
115.00	-4.29	-5.53	0.00	-20.90	0.00	20.90	1,351.09	344.52	879.63	785.93	23.86	-1.81	0.030
118.00	-1.88	-4.32	0.00	-4.32	0.00	4.32	1,326.78	335.11	832.27	750.56	25.00	-1.82	0.007
119.00	0.00	-4.26	0.00	0.00	0.00	0.00	1,318.52	331.98	816.78	738.86	25.38	-1.82	0.000

<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice	18 Iterations
Gust Response Factor :1.10	Ice Dead Load Factor :1.00	
Dead Load Factor :1.20		Ice Importance Factor :1.00
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		66.7	0.0					0.0	0.0	66.7	0.0	0.0	0.0
5.00		132.1	1,408.3					0.0	80.1	132.1	1,488.4	0.0	0.0
10.00		129.4	1,407.6					0.0	80.1	129.4	1,487.7	0.0	0.0
15.00		126.7	1,390.1					0.0	80.1	126.7	1,470.2	0.0	0.0
20.00		123.8	1,367.2					0.0	80.1	123.8	1,447.3	0.0	0.0
25.00		121.0	1,341.5					0.0	80.1	121.0	1,421.6	0.0	0.0
30.00		119.5	1,313.9					0.0	80.1	119.5	1,394.0	0.0	0.0
35.00		65.7	1,285.2					0.0	80.1	65.7	1,365.3	0.0	0.0
35.50	Bot - Section 2	61.3	127.3					0.0	8.0	61.3	135.3	0.0	0.0
40.00		83.2	2,000.1					0.0	72.1	83.2	2,072.2	0.0	0.0
42.25	Top - Section 1	62.1	983.8					0.0	36.0	62.1	1,019.8	0.0	0.0
45.00		96.6	680.2					0.0	44.1	96.6	724.2	0.0	0.0
50.00		124.9	1,210.8					0.0	80.1	124.9	1,290.9	0.0	0.0
55.00		124.9	1,179.4					0.0	80.1	124.9	1,259.5	0.0	0.0
60.00		124.5	1,147.5					0.0	80.1	124.5	1,227.6	0.0	0.0
65.00		123.7	1,115.4					0.0	80.1	123.7	1,195.5	0.0	0.0
70.00		98.3	1,082.9					0.0	80.1	98.3	1,163.0	0.0	0.0
73.00	Bot - Section 3	61.3	635.1					0.0	48.1	61.3	683.1	0.0	0.0
75.00		67.3	638.5					0.0	32.0	67.3	670.5	0.0	0.0
78.50	Top - Section 2	60.9	1,096.7					0.0	56.1	60.9	1,152.8	0.0	0.0
80.00		78.2	238.5					0.0	24.0	78.2	262.5	0.0	0.0
85.00		119.1	775.3					0.0	80.1	119.1	855.4	0.0	0.0
90.00		117.1	749.8					0.0	80.1	117.1	829.9	0.0	0.0
95.00		114.8	724.0					0.0	80.1	114.8	804.1	0.0	0.0
100.00		112.4	698.2					0.0	80.1	112.4	778.3	0.0	0.0
105.00		66.5	672.1					0.0	80.1	66.5	752.2	0.0	0.0
106.00	Appurtenance(s)	54.2	132.0	619.6	0.0	0.0	5,280.9	0.0	16.0	673.8	5,429.0	0.0	0.0
110.00		96.0	515.4					0.0	28.0	96.0	543.3	0.0	0.0
115.00		83.7	619.6					0.0	35.0	83.7	654.6	0.0	0.0
118.00	Appurtenance(s)	41.1	360.2	289.7	0.0	0.0	3,822.5	0.0	21.0	330.8	4,203.7	0.0	0.0
119.00	Appurtenance(s)	10.2	118.3	921.1	0.0	-850.2	5,201.8	0.0	7.0	931.3	5,327.1	0.0	0.0
Totals:										4,697.48	43,108.9	0.00	0.00

Site Number: 283423

Code: ANSI/TIA-222-H

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Site Name: NAUGATUCK CT, CT

Engineering Number: 13668711\_C3\_01

5/6/2021 10:16:24 AM

Customer: VERIZON WIRELESS

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 1.00 in Radial Ice

18 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Dead Load Factor :1.20

Ice Importance Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-43.11	-4.64	0.00	-386.78	0.00	386.78	3,321.87	986.75	5,051.94	3,883.62	0.00	0.00	0.113
5.00	-41.62	-4.52	0.00	-363.59	0.00	363.59	3,288.72	964.36	4,825.36	3,757.16	0.01	-0.02	0.109
10.00	-40.13	-4.41	0.00	-340.97	0.00	340.97	3,253.61	941.98	4,603.98	3,630.29	0.05	-0.05	0.106
15.00	-38.66	-4.30	0.00	-318.92	0.00	318.92	3,216.54	919.60	4,387.80	3,503.16	0.11	-0.07	0.103
20.00	-37.21	-4.19	0.00	-297.44	0.00	297.44	3,177.52	897.21	4,176.81	3,375.93	0.20	-0.09	0.100
25.00	-35.78	-4.08	0.00	-276.50	0.00	276.50	3,136.53	874.83	3,971.03	3,248.74	0.31	-0.12	0.097
30.00	-34.39	-3.97	0.00	-256.11	0.00	256.11	3,093.58	852.45	3,770.44	3,121.77	0.45	-0.14	0.093
35.00	-33.02	-3.91	0.00	-236.26	0.00	236.26	3,048.68	830.06	3,575.05	2,995.16	0.61	-0.17	0.090
35.50	-32.89	-3.85	0.00	-234.30	0.00	234.30	3,044.08	827.82	3,555.80	2,982.53	0.63	-0.17	0.089
40.00	-30.81	-3.77	0.00	-216.96	0.00	216.96	3,001.81	807.68	3,384.86	2,869.08	0.79	-0.19	0.086
42.25	-29.79	-3.71	0.00	-208.48	0.00	208.48	3,003.54	808.49	3,391.62	2,873.61	0.89	-0.20	0.082
45.00	-29.07	-3.62	0.00	-198.27	0.00	198.27	2,976.96	796.17	3,289.13	2,804.53	1.01	-0.21	0.080
50.00	-27.78	-3.50	0.00	-180.15	0.00	180.15	2,927.13	773.79	3,106.81	2,679.53	1.24	-0.24	0.077
55.00	-26.52	-3.38	0.00	-162.63	0.00	162.63	2,875.34	751.41	2,929.68	2,555.45	1.50	-0.26	0.073
60.00	-25.29	-3.26	0.00	-145.72	0.00	145.72	2,821.60	729.02	2,757.76	2,432.44	1.78	-0.28	0.069
65.00	-24.09	-3.14	0.00	-129.40	0.00	129.40	2,765.89	706.64	2,591.03	2,310.67	2.09	-0.30	0.065
70.00	-22.93	-3.04	0.00	-113.69	0.00	113.69	2,708.22	684.26	2,429.50	2,190.28	2.42	-0.32	0.060
73.00	-22.25	-2.98	0.00	-104.56	0.00	104.56	2,672.68	670.83	2,335.08	2,118.77	2.62	-0.33	0.058
75.00	-21.58	-2.92	0.00	-98.59	0.00	98.59	2,648.59	661.87	2,273.17	2,071.43	2.76	-0.34	0.056
78.50	-20.42	-2.85	0.00	-88.39	0.00	88.39	1,590.36	458.92	1,560.74	1,234.68	3.02	-0.36	0.084
80.00	-20.16	-2.78	0.00	-84.11	0.00	84.11	1,582.58	454.22	1,528.93	1,215.98	3.13	-0.36	0.082
85.00	-19.30	-2.66	0.00	-70.23	0.00	70.23	1,555.39	438.55	1,425.25	1,153.62	3.52	-0.39	0.073
90.00	-18.47	-2.54	0.00	-56.93	0.00	56.93	1,526.24	422.88	1,325.22	1,091.30	3.94	-0.41	0.064
95.00	-17.67	-2.43	0.00	-44.21	0.00	44.21	1,495.12	407.20	1,228.82	1,029.18	4.38	-0.43	0.055
100.00	-16.89	-2.31	0.00	-32.07	0.00	32.07	1,462.05	391.53	1,136.06	967.43	4.84	-0.44	0.045
105.00	-16.14	-2.24	0.00	-20.50	0.00	20.50	1,427.02	375.86	1,046.94	906.20	5.31	-0.46	0.034
106.00	-10.72	-1.53	0.00	-18.25	0.00	18.25	1,419.78	372.73	1,029.56	894.03	5.40	-0.46	0.028
110.00	-10.17	-1.43	0.00	-12.14	0.00	12.14	1,390.04	360.19	961.47	845.65	5.79	-0.47	0.022
115.00	-9.52	-1.34	0.00	-5.00	0.00	5.00	1,351.09	344.52	879.63	785.93	6.28	-0.47	0.013
118.00	-5.32	-0.98	0.00	-0.98	0.00	0.98	1,326.78	335.11	832.27	750.56	6.58	-0.47	0.005
119.00	0.00	-0.93	0.00	0.00	0.00	0.00	1,318.52	331.98	816.78	738.86	6.68	-0.47	0.000

<b>Load Case:</b> 1.0D + 1.0W	Serviceability 60 mph	18 Iterations
Gust Response Factor :1.10		
Dead Load Factor :1.00		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		50.9	0.0					0.0	0.0	50.9	0.0	0.0	0.0
5.00		100.6	945.8					0.0	66.7	100.6	1,012.5	0.0	0.0
10.00		98.3	924.1					0.0	66.7	98.3	990.8	0.0	0.0
15.00		96.0	902.4					0.0	66.7	96.0	969.1	0.0	0.0
20.00		93.7	880.7					0.0	66.7	93.7	947.4	0.0	0.0
25.00		91.3	859.0					0.0	66.7	91.3	925.7	0.0	0.0
30.00		90.1	837.3					0.0	66.7	90.1	904.0	0.0	0.0
35.00		49.5	815.6					0.0	66.7	49.5	882.3	0.0	0.0
35.50	Bot - Section 2	46.2	80.4					0.0	6.7	46.2	87.0	0.0	0.0
40.00		62.6	1,436.5					0.0	60.1	62.6	1,496.6	0.0	0.0
42.25	Top - Section 1	46.6	705.1					0.0	30.0	46.6	735.1	0.0	0.0
45.00		72.5	427.8					0.0	36.7	72.5	464.5	0.0	0.0
50.00		93.6	761.0					0.0	66.7	93.6	827.8	0.0	0.0
55.00		93.4	739.3					0.0	66.7	93.4	806.1	0.0	0.0
60.00		93.0	717.6					0.0	66.7	93.0	784.4	0.0	0.0
65.00		92.2	695.9					0.0	66.7	92.2	762.7	0.0	0.0
70.00		73.2	674.2					0.0	66.7	73.2	741.0	0.0	0.0
73.00	Bot - Section 3	45.5	394.1					0.0	40.0	45.5	434.2	0.0	0.0
75.00		50.0	441.8					0.0	26.7	50.0	468.5	0.0	0.0
78.50	Top - Section 2	45.2	759.0					0.0	46.7	45.2	805.7	0.0	0.0
80.00		58.0	132.8					0.0	20.0	58.0	152.8	0.0	0.0
85.00		88.1	432.7					0.0	66.7	88.1	499.5	0.0	0.0
90.00		86.4	417.6					0.0	66.7	86.4	484.3	0.0	0.0
95.00		84.5	402.4					0.0	66.7	84.5	469.1	0.0	0.0
100.00		82.5	387.2					0.0	66.7	82.5	453.9	0.0	0.0
105.00		48.7	372.0					0.0	66.7	48.7	438.7	0.0	0.0
106.00	Appurtenance(s)	39.6	72.6	607.1	0.0	0.0	3,120.0	0.0	13.3	646.7	3,205.9	0.0	0.0
110.00		70.0	284.2					0.0	23.3	70.0	307.5	0.0	0.0
115.00		60.9	341.6					0.0	29.1	60.9	370.7	0.0	0.0
118.00	Appurtenance(s)	29.8	197.7	235.4	0.0	0.0	2,500.0	0.0	17.5	265.3	2,715.2	0.0	0.0
119.00	Appurtenance(s)	7.4	64.7	995.2	0.0	-923.7	2,172.5	0.0	5.8	1,002.6	2,243.0	0.0	0.0
Totals:										3,977.88	26,385.9	0.00	0.00

Load Case: 1.0D + 1.0W

Serviceability 60 mph

18 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-26.39	-3.93	0.00	-339.12	0.00	339.12	3,321.87	986.75	5,051.94	3,883.62	0.00	0.00	0.095
5.00	-25.37	-3.84	0.00	-319.46	0.00	319.46	3,288.72	964.36	4,825.36	3,757.16	0.01	-0.02	0.093
10.00	-24.38	-3.75	0.00	-300.27	0.00	300.27	3,253.61	941.98	4,603.98	3,630.29	0.04	-0.04	0.090
15.00	-23.41	-3.66	0.00	-281.52	0.00	281.52	3,216.54	919.60	4,387.80	3,503.16	0.10	-0.06	0.088
20.00	-22.46	-3.57	0.00	-263.21	0.00	263.21	3,177.52	897.21	4,176.81	3,375.93	0.17	-0.08	0.085
25.00	-21.53	-3.49	0.00	-245.34	0.00	245.34	3,136.53	874.83	3,971.03	3,248.74	0.27	-0.10	0.082
30.00	-20.63	-3.41	0.00	-227.89	0.00	227.89	3,093.58	852.45	3,770.44	3,121.77	0.39	-0.13	0.080
35.00	-19.75	-3.36	0.00	-210.87	0.00	210.87	3,048.68	830.06	3,575.05	2,995.16	0.54	-0.15	0.077
35.50	-19.66	-3.32	0.00	-209.19	0.00	209.19	3,044.08	827.82	3,555.80	2,982.53	0.55	-0.15	0.077
40.00	-18.16	-3.25	0.00	-194.27	0.00	194.27	3,001.81	807.68	3,384.86	2,869.08	0.70	-0.17	0.074
42.25	-17.43	-3.21	0.00	-186.95	0.00	186.95	3,003.54	808.49	3,391.62	2,873.61	0.78	-0.18	0.071
45.00	-16.96	-3.14	0.00	-178.13	0.00	178.13	2,976.96	796.17	3,289.13	2,804.53	0.89	-0.19	0.069
50.00	-16.13	-3.05	0.00	-162.44	0.00	162.44	2,927.13	773.79	3,106.81	2,679.53	1.10	-0.21	0.066
55.00	-15.32	-2.96	0.00	-147.20	0.00	147.20	2,875.34	751.41	2,929.68	2,555.45	1.33	-0.23	0.063
60.00	-14.54	-2.86	0.00	-132.42	0.00	132.42	2,821.60	729.02	2,757.76	2,432.44	1.58	-0.25	0.060
65.00	-13.78	-2.77	0.00	-118.10	0.00	118.10	2,765.89	706.64	2,591.03	2,310.67	1.85	-0.27	0.056
70.00	-13.04	-2.70	0.00	-104.23	0.00	104.23	2,708.22	684.26	2,429.50	2,190.28	2.14	-0.29	0.052
73.00	-12.60	-2.65	0.00	-96.13	0.00	96.13	2,672.68	670.83	2,335.08	2,118.77	2.33	-0.30	0.050
75.00	-12.13	-2.60	0.00	-90.82	0.00	90.82	2,648.59	661.87	2,273.17	2,071.43	2.45	-0.31	0.048
78.50	-11.33	-2.56	0.00	-81.70	0.00	81.70	1,590.36	458.92	1,560.74	1,234.68	2.68	-0.32	0.073
80.00	-11.17	-2.50	0.00	-77.87	0.00	77.87	1,582.58	454.22	1,528.93	1,215.98	2.78	-0.32	0.071
85.00	-10.67	-2.41	0.00	-65.36	0.00	65.36	1,555.39	438.55	1,425.25	1,153.62	3.14	-0.35	0.064
90.00	-10.19	-2.33	0.00	-53.30	0.00	53.30	1,526.24	422.88	1,325.22	1,091.30	3.51	-0.37	0.056
95.00	-9.72	-2.24	0.00	-41.66	0.00	41.66	1,495.12	407.20	1,228.82	1,029.18	3.91	-0.39	0.047
100.00	-9.27	-2.16	0.00	-30.44	0.00	30.44	1,462.05	391.53	1,136.06	967.43	4.32	-0.40	0.038
105.00	-8.83	-2.11	0.00	-19.64	0.00	19.64	1,427.02	375.86	1,046.94	906.20	4.75	-0.41	0.028
106.00	-5.63	-1.44	0.00	-17.53	0.00	17.53	1,419.78	372.73	1,029.56	894.03	4.83	-0.42	0.024
110.00	-5.32	-1.37	0.00	-11.77	0.00	11.77	1,390.04	360.19	961.47	845.65	5.18	-0.42	0.018
115.00	-4.95	-1.30	0.00	-4.93	0.00	4.93	1,351.09	344.52	879.63	785.93	5.63	-0.43	0.010
118.00	-2.24	-1.02	0.00	-1.02	0.00	1.02	1,326.78	335.11	832.27	750.56	5.90	-0.43	0.003
119.00	0.00	-1.00	0.00	0.00	0.00	0.00	1,318.52	331.98	816.78	738.86	5.99	-0.43	0.000

### Equivalent Lateral Forces Method Analysis

Spectral Response Acceleration for Short Period ( $S_s$ ):	0.20
Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ):	0.05
Long-Period Transition Period ( $T_L$ ):	6
Importance Factor ( $I_E$ ):	1.00
Site Coefficient $F_a$ :	1.60
Site Coefficient $F_v$ :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period ( $S_{ds}$ ):	0.21
Design Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ):	0.09
Seismic Response Coefficient ( $C_s$ ):	0.04
Upper Limit $C_s$	0.04
Lower Limit $C_s$	0.03
Period based on Rayleigh Method (sec):	1.51
Redundancy Factor ( $\rho$ ):	1.00
Seismic Force Distribution Exponent (k):	1.50
Total Unfactored Dead Load:	26.39 k
Seismic Base Shear (E):	1.01 k

#### Load Case 1.2D + 1.0Ev + 1.0Eh

#### Seismic

Segment	Height Above Base (ft)	Weight (lb)	$W_z$ (lb-ft)	$C_{vx}$	Horizontal Force (lb)	Vertical Force (lb)
30	118.50	71	93	0.005	5	88
29	116.50	215	275	0.016	16	267
28	112.50	371	450	0.026	26	460
27	108.00	308	351	0.020	21	382
26	105.50	86	95	0.006	6	107
25	102.50	439	463	0.027	27	545
24	97.50	454	444	0.026	26	564
23	92.50	469	424	0.025	25	583
22	87.50	484	403	0.023	24	601
21	82.50	499	380	0.022	22	620
20	79.25	153	110	0.006	6	190
19	76.75	806	550	0.032	32	1,001
18	74.00	469	303	0.018	18	582
17	71.50	434	267	0.016	16	539
16	67.50	741	417	0.024	25	920
15	62.50	763	383	0.022	22	947
14	57.50	784	347	0.020	20	974
13	52.50	806	311	0.018	18	1,001
12	47.50	828	275	0.016	16	1,028
11	43.63	465	136	0.008	8	577
10	41.13	735	196	0.011	12	913
9	37.75	1,497	352	0.020	21	1,858
8	35.25	87	18	0.001	1	108
7	32.50	882	166	0.010	10	1,096
6	27.50	904	132	0.008	8	1,123

Site Number: 283423

Code: ANSI/TIA-222-H

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Site Name: NAUGATUCK CT, CT

Engineering Number: 13668711\_C3\_01

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Customer: VERIZON WIRELESS

5	22.50	926	100	0.006	6	1,150
4	17.50	947	70	0.004	4	1,177
3	12.50	969	43	0.003	3	1,203
2	7.50	991	20	0.001	1	1,230
1	2.50	1,013	4	0.000	0	1,257
Raycap DC6-48-60-18-	119.00	80	106	0.006	6	99
Ericsson RRUS 4478 B	119.00	178	235	0.014	14	221
Ericsson RRUS 32 (50	119.00	152	201	0.012	12	189
Ericsson RRUS 32 B66	119.00	152	201	0.012	12	189
Ericsson RRUS 32 B2	119.00	159	210	0.012	12	197
Ericsson RRUS-11	119.00	495	654	0.038	38	615
CCI HPA-65R-BUU-H8	119.00	612	808	0.047	47	760
Kathrein Scala 80010	119.00	344	454	0.026	27	427
Generic Round Platfo	118.00	2,500	3,260	0.190	191	3,105
Commscope CBC78T-DS-	106.00	62	69	0.004	4	77
Samsung B5/B13 RRH-B	106.00	211	234	0.014	14	262
Samsung B2/B66A RRH-	106.00	253	281	0.016	17	314
Raycap RCMD-6627-PF	106.00	64	71	0.004	4	79
Samsung MT6407-77A	106.00	245	272	0.016	16	304
Commscope JAHH-65B-R	106.00	242	269	0.016	16	301
Commscope JAHH-45B-R	106.00	168	186	0.011	11	208
Generic Round Low Pr	106.00	1,875	2,081	0.121	122	2,328
		26,386	17,171	1.000	1,008	32,766

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W <sub>z</sub> (lb-ft)	C <sub>vx</sub>	Horizontal Force (lb)	Vertical Force (lb)
30	118.50	71	93	0.005	5	61
29	116.50	215	275	0.016	16	185
28	112.50	371	450	0.026	26	318
27	108.00	308	351	0.020	21	264
26	105.50	86	95	0.006	6	74
25	102.50	439	463	0.027	27	377
24	97.50	454	444	0.026	26	390
23	92.50	469	424	0.025	25	403
22	87.50	484	403	0.023	24	416
21	82.50	499	380	0.022	22	429
20	79.25	153	110	0.006	6	131
19	76.75	806	550	0.032	32	691
18	74.00	469	303	0.018	18	402
17	71.50	434	267	0.016	16	373
16	67.50	741	417	0.024	25	636
15	62.50	763	383	0.022	22	654
14	57.50	784	347	0.020	20	673
13	52.50	806	311	0.018	18	692
12	47.50	828	275	0.016	16	710
11	43.63	465	136	0.008	8	399
10	41.13	735	196	0.011	12	631
9	37.75	1,497	352	0.020	21	1,284
8	35.25	87	18	0.001	1	75
7	32.50	882	166	0.010	10	757
6	27.50	904	132	0.008	8	776
5	22.50	926	100	0.006	6	794
4	17.50	947	70	0.004	4	813
3	12.50	969	43	0.003	3	832
2	7.50	991	20	0.001	1	850
1	2.50	1,013	4	0.000	0	869
Raycap DC6-48-60-18-	119.00	80	106	0.006	6	69
Ericsson RRUS 4478 B	119.00	178	235	0.014	14	153
Ericsson RRUS 32 (50	119.00	152	201	0.012	12	131

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Site Number: 283423

Code: ANSI/TIA-222-H

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Site Name: NAUGATUCK CT, CT

Engineering Number:13668711\_C3\_01

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Customer: VERIZON WIRELESS

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Ericsson RRUS 32 B66	119.00	152	201	0.012	12	131
Ericsson RRUS 32 B2	119.00	159	210	0.012	12	136
Ericsson RRUS-11	119.00	495	654	0.038	38	425
CCI HPA-65R-BUU-H8	119.00	612	808	0.047	47	525
Kathrein Scala 80010	119.00	344	454	0.026	27	295
Generic Round Platfo	118.00	2,500	3,260	0.190	191	2,145
Commscope CBC78T-DS-	106.00	62	69	0.004	4	53
Samsung B5/B13 RRH-B	106.00	211	234	0.014	14	181
Samsung B2/B66A RRH-	106.00	253	281	0.016	17	217
Raycap RCMD-6627-PF	106.00	64	71	0.004	4	55
Samsung MT6407-77A	106.00	245	272	0.016	16	210
Commscope JAHH-65B-R	106.00	242	269	0.016	16	208
Commscope JAHH-45B-R	106.00	168	186	0.011	11	144
Generic Round Low Pr	106.00	1,875	2,081	0.121	122	1,609
		26,386	17,171	1.000	1,008	22,644



Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-31.51	-1.01	0.00	-98.96	0.00	98.96	3,321.87	986.75	5,051.94	3,883.62	0.00	0.00	0.035
5.00	-30.28	-1.01	0.00	-93.91	0.00	93.91	3,288.72	964.36	4,825.36	3,757.16	0.00	-0.01	0.034
10.00	-29.07	-1.01	0.00	-88.86	0.00	88.86	3,253.61	941.98	4,603.98	3,630.29	0.01	-0.01	0.033
15.00	-27.90	-1.01	0.00	-83.80	0.00	83.80	3,216.54	919.60	4,387.80	3,503.16	0.03	-0.02	0.033
20.00	-26.75	-1.01	0.00	-78.75	0.00	78.75	3,177.52	897.21	4,176.81	3,375.93	0.05	-0.02	0.032
25.00	-25.63	-1.00	0.00	-73.72	0.00	73.72	3,136.53	874.83	3,971.03	3,248.74	0.08	-0.03	0.031
30.00	-24.53	-0.99	0.00	-68.71	0.00	68.71	3,093.58	852.45	3,770.44	3,121.77	0.12	-0.04	0.030
35.00	-24.42	-0.99	0.00	-63.75	0.00	63.75	3,048.68	830.06	3,575.05	2,995.16	0.16	-0.04	0.029
35.50	-22.56	-0.97	0.00	-63.25	0.00	63.25	3,044.08	827.82	3,555.80	2,982.53	0.16	-0.04	0.029
40.00	-21.65	-0.96	0.00	-58.87	0.00	58.87	3,001.81	807.68	3,384.86	2,869.08	0.21	-0.05	0.028
42.25	-21.07	-0.96	0.00	-56.71	0.00	56.71	3,003.54	808.49	3,391.62	2,873.61	0.23	-0.05	0.027
45.00	-20.05	-0.94	0.00	-54.08	0.00	54.08	2,976.96	796.17	3,289.13	2,804.53	0.26	-0.06	0.026
50.00	-19.04	-0.92	0.00	-49.38	0.00	49.38	2,927.13	773.79	3,106.81	2,679.53	0.33	-0.06	0.025
55.00	-18.07	-0.90	0.00	-44.77	0.00	44.77	2,875.34	751.41	2,929.68	2,555.45	0.40	-0.07	0.024
60.00	-17.12	-0.88	0.00	-40.26	0.00	40.26	2,821.60	729.02	2,757.76	2,432.44	0.47	-0.07	0.023
65.00	-16.20	-0.86	0.00	-35.85	0.00	35.85	2,765.89	706.64	2,591.03	2,310.67	0.55	-0.08	0.021
70.00	-15.66	-0.84	0.00	-31.57	0.00	31.57	2,708.22	684.26	2,429.50	2,190.28	0.64	-0.09	0.020
73.00	-15.08	-0.82	0.00	-29.04	0.00	29.04	2,672.68	670.83	2,335.08	2,118.77	0.70	-0.09	0.019
75.00	-14.08	-0.79	0.00	-27.39	0.00	27.39	2,648.59	661.87	2,273.17	2,071.43	0.73	-0.09	0.019
78.50	-13.89	-0.78	0.00	-24.63	0.00	24.63	1,590.36	458.92	1,560.74	1,234.68	0.80	-0.10	0.029
80.00	-13.27	-0.76	0.00	-23.45	0.00	23.45	1,582.58	454.22	1,528.93	1,215.98	0.83	-0.10	0.028
85.00	-12.67	-0.74	0.00	-19.64	0.00	19.64	1,555.39	438.55	1,425.25	1,153.62	0.94	-0.10	0.025
90.00	-12.09	-0.71	0.00	-15.94	0.00	15.94	1,526.24	422.88	1,325.22	1,091.30	1.05	-0.11	0.023
95.00	-11.52	-0.69	0.00	-12.37	0.00	12.37	1,495.12	407.20	1,228.82	1,029.18	1.17	-0.12	0.020
100.00	-10.98	-0.66	0.00	-8.93	0.00	8.93	1,462.05	391.53	1,136.06	967.43	1.29	-0.12	0.017
105.00	-10.87	-0.66	0.00	-5.63	0.00	5.63	1,427.02	375.86	1,046.94	906.20	1.42	-0.12	0.014
106.00	-6.62	-0.42	0.00	-4.97	0.00	4.97	1,419.78	372.73	1,029.56	894.03	1.45	-0.12	0.010
110.00	-6.16	-0.40	0.00	-3.29	0.00	3.29	1,390.04	360.19	961.47	845.65	1.55	-0.13	0.008
115.00	-5.89	-0.38	0.00	-1.31	0.00	1.31	1,351.09	344.52	879.63	785.93	1.69	-0.13	0.006
118.00	-2.70	-0.17	0.00	-0.17	0.00	0.17	1,326.78	335.11	832.27	750.56	1.77	-0.13	0.002
119.00	0.00	-0.17	0.00	0.00	0.00	0.00	1,318.52	331.98	816.78	738.86	1.80	-0.13	0.000

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-21.78	-1.01	0.00	-98.29	0.00	98.29	3,321.87	986.75	5,051.94	3,883.62	0.00	0.00	0.032
5.00	-20.92	-1.01	0.00	-93.25	0.00	93.25	3,288.72	964.36	4,825.36	3,757.16	0.00	-0.01	0.031
10.00	-20.09	-1.01	0.00	-88.20	0.00	88.20	3,253.61	941.98	4,603.98	3,630.29	0.01	-0.01	0.030
15.00	-19.28	-1.01	0.00	-83.16	0.00	83.16	3,216.54	919.60	4,387.80	3,503.16	0.03	-0.02	0.030
20.00	-18.49	-1.00	0.00	-78.12	0.00	78.12	3,177.52	897.21	4,176.81	3,375.93	0.05	-0.02	0.029
25.00	-17.71	-1.00	0.00	-73.11	0.00	73.11	3,136.53	874.83	3,971.03	3,248.74	0.08	-0.03	0.028
30.00	-16.95	-0.99	0.00	-68.13	0.00	68.13	3,093.58	852.45	3,770.44	3,121.77	0.12	-0.04	0.027
35.00	-16.88	-0.99	0.00	-63.19	0.00	63.19	3,048.68	830.06	3,575.05	2,995.16	0.16	-0.04	0.027
35.50	-15.59	-0.97	0.00	-62.70	0.00	62.70	3,044.08	827.82	3,555.80	2,982.53	0.16	-0.04	0.026
40.00	-14.96	-0.96	0.00	-58.34	0.00	58.34	3,001.81	807.68	3,384.86	2,869.08	0.21	-0.05	0.025
42.25	-14.56	-0.95	0.00	-56.19	0.00	56.19	3,003.54	808.49	3,391.62	2,873.61	0.23	-0.05	0.024
45.00	-13.85	-0.93	0.00	-53.58	0.00	53.58	2,976.96	796.17	3,289.13	2,804.53	0.26	-0.06	0.024
50.00	-13.16	-0.92	0.00	-48.92	0.00	48.92	2,927.13	773.79	3,106.81	2,679.53	0.32	-0.06	0.023
55.00	-12.49	-0.90	0.00	-44.34	0.00	44.34	2,875.34	751.41	2,929.68	2,555.45	0.39	-0.07	0.022
60.00	-11.83	-0.87	0.00	-39.86	0.00	39.86	2,821.60	729.02	2,757.76	2,432.44	0.47	-0.07	0.021
65.00	-11.20	-0.85	0.00	-35.49	0.00	35.49	2,765.89	706.64	2,591.03	2,310.67	0.55	-0.08	0.019
70.00	-10.82	-0.83	0.00	-31.25	0.00	31.25	2,708.22	684.26	2,429.50	2,190.28	0.64	-0.09	0.018
73.00	-10.42	-0.82	0.00	-28.74	0.00	28.74	2,672.68	670.83	2,335.08	2,118.77	0.69	-0.09	0.017
75.00	-9.73	-0.78	0.00	-27.11	0.00	27.11	2,648.59	661.87	2,273.17	2,071.43	0.73	-0.09	0.017
78.50	-9.60	-0.78	0.00	-24.37	0.00	24.37	1,590.36	458.92	1,560.74	1,234.68	0.80	-0.10	0.026
80.00	-9.17	-0.75	0.00	-23.20	0.00	23.20	1,582.58	454.22	1,528.93	1,215.98	0.83	-0.10	0.025
85.00	-8.76	-0.73	0.00	-19.43	0.00	19.43	1,555.39	438.55	1,425.25	1,153.62	0.93	-0.10	0.022
90.00	-8.35	-0.71	0.00	-15.77	0.00	15.77	1,526.24	422.88	1,325.22	1,091.30	1.04	-0.11	0.020
95.00	-7.96	-0.68	0.00	-12.24	0.00	12.24	1,495.12	407.20	1,228.82	1,029.18	1.16	-0.11	0.017
100.00	-7.59	-0.65	0.00	-8.83	0.00	8.83	1,462.05	391.53	1,136.06	967.43	1.28	-0.12	0.014
105.00	-7.51	-0.65	0.00	-5.57	0.00	5.57	1,427.02	375.86	1,046.94	906.20	1.41	-0.12	0.011
106.00	-4.57	-0.42	0.00	-4.92	0.00	4.92	1,419.78	372.73	1,029.56	894.03	1.44	-0.12	0.009
110.00	-4.25	-0.39	0.00	-3.25	0.00	3.25	1,390.04	360.19	961.47	845.65	1.54	-0.13	0.007
115.00	-4.07	-0.37	0.00	-1.30	0.00	1.30	1,351.09	344.52	879.63	785.93	1.67	-0.13	0.005
118.00	-1.86	-0.17	0.00	-0.17	0.00	0.17	1,326.78	335.11	832.27	750.56	1.75	-0.13	0.002
119.00	0.00	-0.17	0.00	0.00	0.00	0.00	1,318.52	331.98	816.78	738.86	1.78	-0.13	0.000

Site Number: 283423

Code: ANSI/TIA-222-H

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Site Name: NAUGATUCK CT, CT

Engineering Number: 13668711\_C3\_01

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Customer: VERIZON WIRELESS

## Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	16.71	0.00	31.65	0.00	0.00	1446.44	0.00	0.38
0.9D + 1.0W	16.71	0.00	23.73	0.00	0.00	1438.58	0.00	0.38
1.2D + 1.0Di + 1.0Wi	4.64	0.00	43.11	0.00	0.00	386.78	0.00	0.11
1.2D + 1.0Ev + 1.0Eh	1.01	0.00	31.51	0.00	0.00	98.96	0.00	0.03
0.9D - 1.0Ev + 1.0Eh	1.01	0.00	21.78	0.00	0.00	98.29	0.00	0.03
1.0D + 1.0W	3.93	0.00	26.39	0.00	0.00	339.12	0.00	0.10

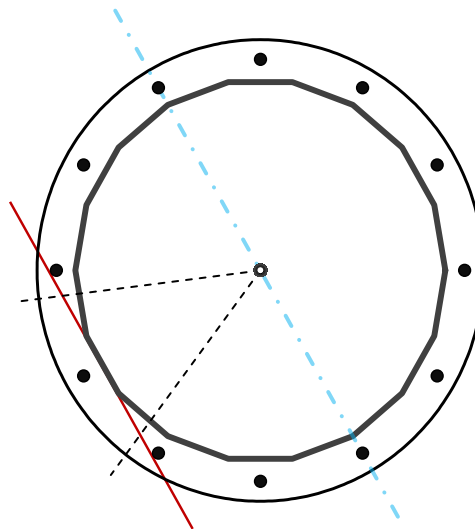
## Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	18	-
Diameter	57	in
Thickness	5/16	in
Orientation Offset		°

Base Reactions		
Moment, Mu	1,446.4	k-ft
Axial, Pu	31.7	k
Shear, Vu	16.7	k
Neutral Axis	120	°

Report Capacities		
Component	Capacity	Result
Base Plate	17%	Pass
Anchor Rods	41%	Pass
Dwyidag	-	-

Base Plate		
Shape	Round	-
Diameter, $\phi$	70	in
Thickness	2	in
Grade	A572-50	
Yield Strength, Fy	50	ksi
Tensile Strength, Fu	65	ksi
Clip	N/A	in
Orientation Offset		°
Anchor Rod Detail	d	$\eta=0.5$
Clear Distance	3	in
Applied Moment, Mu	217.1	k
Bending Stress, $\phi Mn$	1262.0	k



Original Anchor Rods		
Arrangement	Radial	-
Quantity	12	-
Diameter, $\phi$	2 1/4	in
Bolt Circle	64	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	16.8	in
Orientation Offset		°
Applied Force, Pu	96.5	k
Anchor Rods, $\phi Pn$	243.6	k

# Calculations for Monopole Base Plate & Anchor Rod Analysis

## Reaction Distribution

Reaction	Shear Vu k	Moment Mu k-ft	Factor
-			-
Base Forces	16.7	1446.4	1.00
Anchor Rod Forces	16.7	1446.4	1.00
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	0.0	0.00
Stiffener Forces	0.0	0.0	0.00

## Geometric Properties

Section	Gross Area in <sup>2</sup>	Net Area in <sup>2</sup>	Individual Inertia in <sup>4</sup>	Threads per Inch #	Moment of Inertia in <sup>4</sup>
-					
Pole	55.3707	3.0762	0.1004		22243.34
Bolt	3.9761	3.2477	0.8393	4.5	18510.41
Bolt1	0.0000	0.0000	0.0000	0	0.00
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	0.0000	0.0000	0.0000		0.00
Stiffener	0.0000	0.0000	0.0000		0.00

### Base Plate

Shape	Round	-
Diameter, D	70	in
Thickness, t	2	in
Yield Strength, Fy	50	ksi
Tensile Strength, Fu	65	ksi
Base Plate Chord	40.632	in
Detail Type	d	-
Detail Factor	0.50	-
Clear Distance	3	-

### Anchor Rods

Anchor Rod Quantity, N	12	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	64	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	96.5	k
Applied Shear, Vu	1.1	k
Compressive Capacity, $\phi P_n$	243.6	k
Tensile Capacity, $\phi R_n$	0.396	OK
Interaction Capacity	0.405	OK

### External Base Plate

Chord Length AA	34.044	in
Additional AA	4.000	in
Section Modulus, Z	38.044	in <sup>3</sup>
Applied Moment, Mu	217.1	k-ft
Bending Capacity, $\phi M_n$	1712.0	k-ft
Capacity, Mu/ $\phi M_n$	0.127	OK
Chord Length AB	32.520	in
Additional AB	4.000	in
Section Modulus, Z	36.520	in <sup>3</sup>
Applied Moment, Mu	174.6	k-ft
Bending Capacity, $\phi M_n$	1643.4	k-ft
Capacity, Mu/ $\phi M_n$	0.106	OK
Bend Line Length	28.045	in
Additional Bend Line	0.000	in
Section Modulus, Z	28.045	in <sup>3</sup>
Applied Moment, Mu	217.1	k-ft
Bending Capacity, $\phi M_n$	1262.0	k-ft
Capacity, Mu/ $\phi M_n$	0.172	OK

### Internal Base Plate

Arc Length	0.000	in
Section Modulus, Z	0.000	in <sup>3</sup>
Moment Arm	0.000	in
Applied Moment, Mu	0.0	k-ft
Bending Capacity, $\phi M_n$	0.0	k-ft
Capacity, Mu/ $\phi M_n$		



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## Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10068865  
Maser Consulting Connecticut Project #: 21777437A

June 11, 2021

### Site Information

Site ID: 469151-VZW / NAUGATUCK WEST CT  
Site Name: NAUGATUCK WEST CT  
Carrier Name: Verizon Wireless  
Address: 880 Andrew Mountain Rd  
Naugatuck, Connecticut 06770  
New Haven County  
Latitude: 41.484453°  
Longitude: -73.089844°

### Structure Information

Tower Type: Monopole  
Mount Type: 12.50-Ft Platform

FUZE ID # 16244107

### Analysis Results

Platform: 42.5% Pass

### \*\*\*Contractor PMI Requirements:

**Included at the end of this MA report**

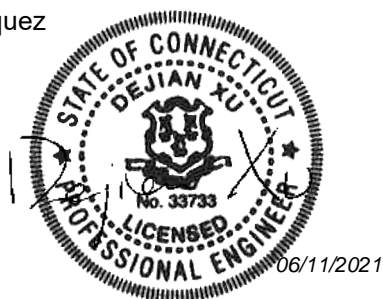
**Available & Submitted via portal at <https://pmi.vzwsmart.com>**

**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**

Report Prepared By: Abigail Enriquez



**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
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 1740118, dated March 16, 2021</i>
<i>Mount Mapping Report</i>	<i>RKS Design and Engineering LLC., Site ID: ATC: 283423, VZW:469151, dated March 30, 2021</i>
<i>Previous Mount Analysis Report</i>	<i>Maser Consulting Connecticut, Project # 21777437A, dated May 5, 2021</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut, Project # 21777437A, dated June 11, 2021</i>

**Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 117 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, $K_e$ : 0.970
Seismic Parameters:	$S_s$ : 0.196 $S_1$ : 0.054
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 mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
103.83	106.00	3	Samsung	MT6407-77A	Added
		2	Commscope	JAHH-45B-R3B	Retained
		4	Commscope	JAHH-65B-R3B	
		3	Commscope	CBC78T-DS-43	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		2	Raycap	RRFDC-3315-PF-48*	

\* Equipment is flush mounted directly to the Self Support. They are not mounted on the platform mount and are not included in this mount analysis.

The recent mount mapping reported existing OVP units. It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Model Number	Ports	AKA
DB-B1-6C-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

**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>Mod Support Rail Corner</i>	28.4%	<i>Pass</i>
<i>Mod Support Rail</i>	18.7%	<i>Pass</i>
<i>Mount Pipe</i>	40.3%	<i>Pass</i>
<i>Face Horizontal</i>	14.0%	<i>Pass</i>
<i>Corner Plate</i>	14.8%	<i>Pass</i>
<i>Cross Arm Plate</i>	31.4%	<i>Pass</i>
<i>Grating Support</i>	9.4%	<i>Pass</i>
<i>Platform Crossmember</i>	15.7%	<i>Pass</i>
<i>Standoff Horizontal</i>	32.9%	<i>Pass</i>
<i>Connection Check</i>	42.5%	<i>Pass</i>
<b>Structure Rating – (Controlling Utilization of all Components)</b>		<b>42.5%</b>

**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:**

1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
- 4. Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter





### Antenna Mount Mapping Form (PATENT PENDING)

FCC #  
1277236

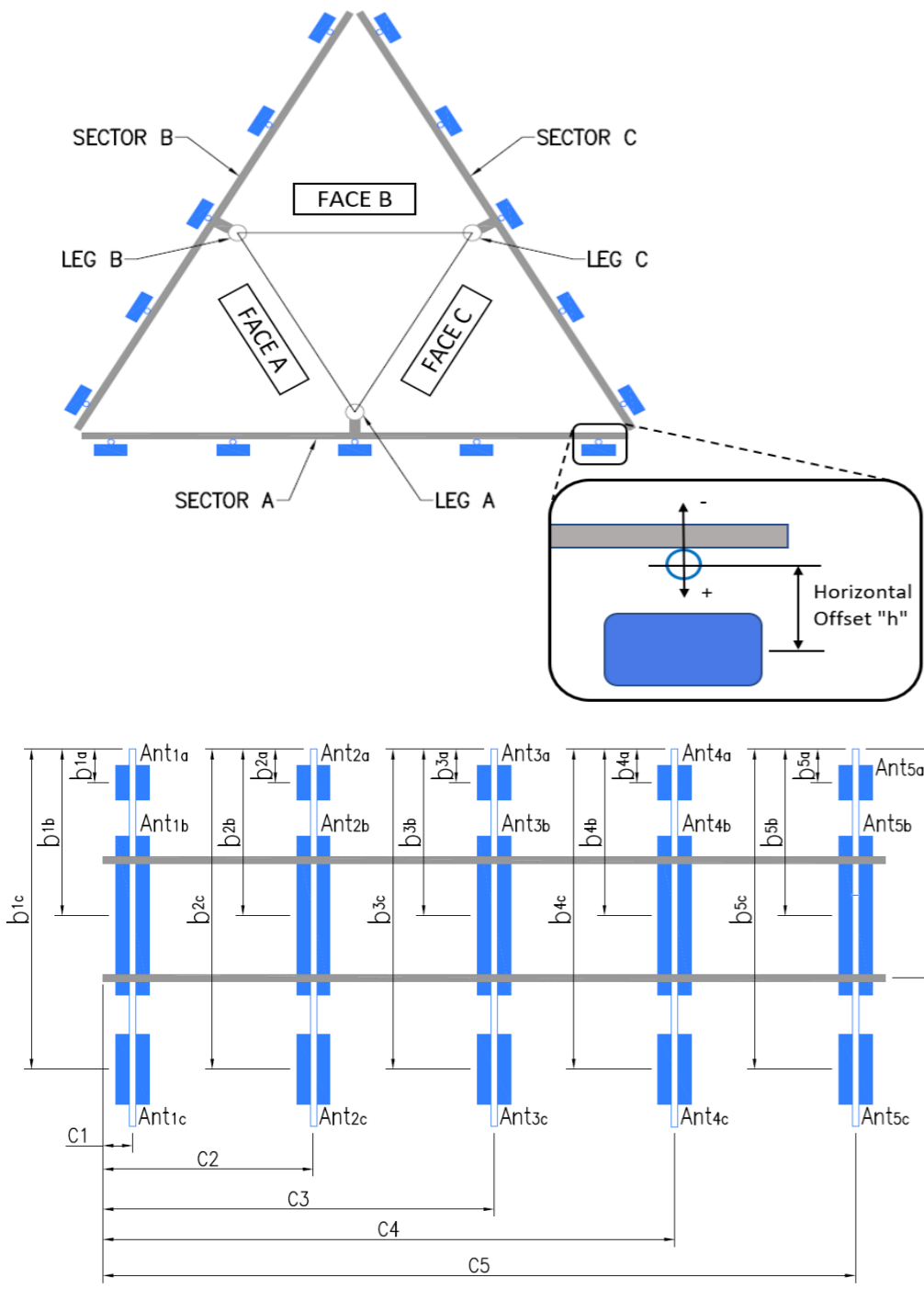
Tower Owner:	AMERICAN TOWER CORPORATION	Mapping Date:	3-30-2021
Site Name:	ATC : NAUGATUCK CT ; VZW : NAUGATUCK WEST CT	Tower Type:	MONOPOLE
Site Number or ID:	ATC : 283423, VZW:469151	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS DESIGN AND ENGINEERING LLC	Mount Elevation (Ft.):	104

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Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

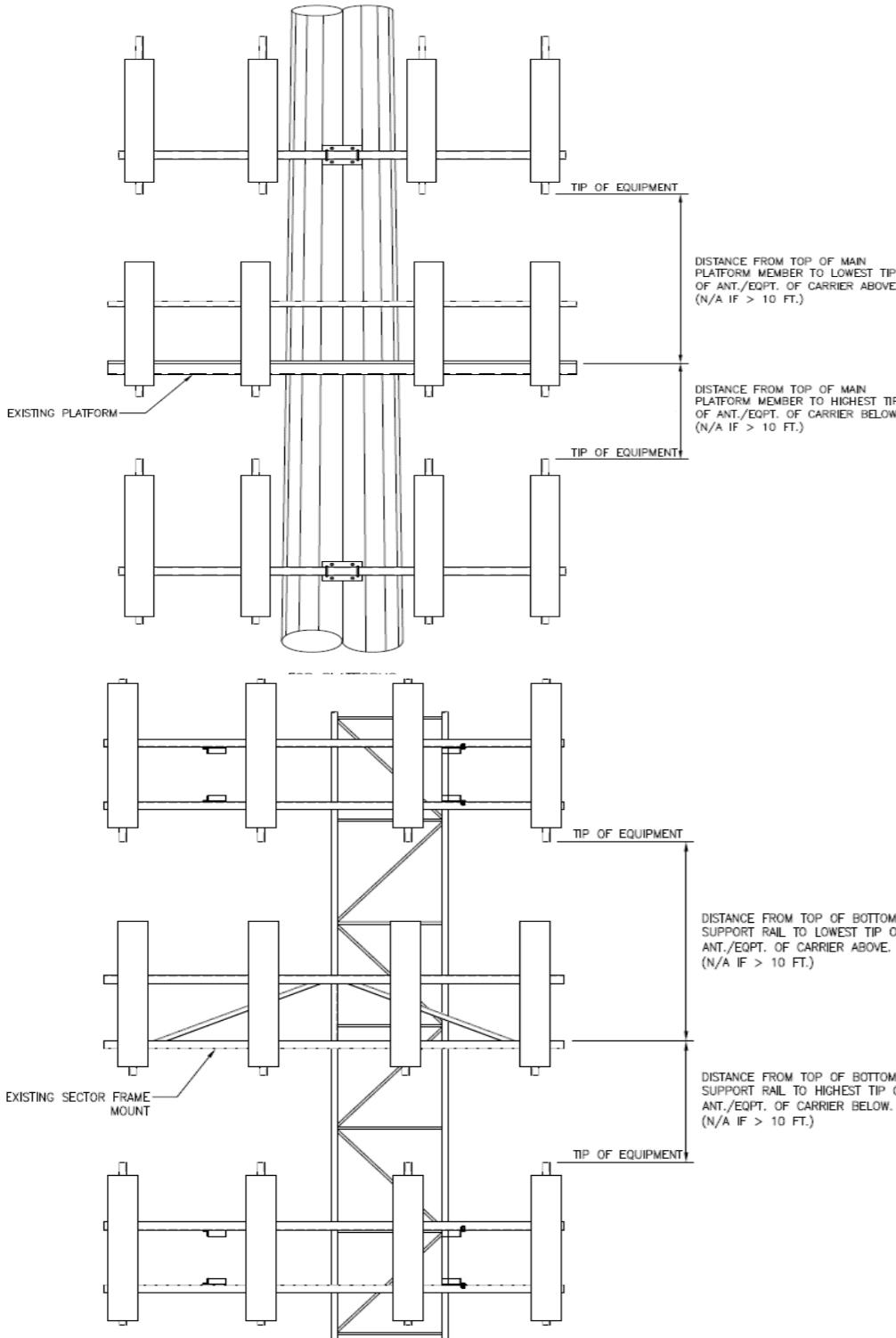
Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.375"Ø x 0.15"x96" LONG	52.75	26.00	C1	PIPE 2.375"Ø x 0.15"x96" LONG	52.75	26.00
A2	PIPE 2.375"Ø x 0.15"x96" LONG	52.75	77.25	C2	PIPE 2.375"Ø x 0.15"x96" LONG	52.75	77.25
A3	PIPE 2.375"Ø x 0.15"x96" LONG	52.75	115.75	C3	PIPE 2.375"Ø x 0.15"x96" LONG	52.75	115.75
A4	PIPE 2.375"Ø x 0.15"x96" LONG	52.75	139.50	C4	PIPE 2.375"Ø x 0.15"x96" LONG	52.75	139.50
A5				C5			
A6				C6			
B1	PIPE 2.375"Ø x 0.15"x96" LONG	52.75	26.00	D1			
B2	PIPE 2.375"Ø x 0.15"x96" LONG	52.75	77.25	D2			
B3	PIPE 2.375"Ø x 0.15"x96" LONG	52.75	115.75	D3			
B4	PIPE 2.375"Ø x 0.15"x96" LONG	52.75	139.50	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							
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.):		31.5			

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 <sub>1a</sub> , b <sub>2a</sub> , b <sub>3a</sub> , b <sub>1b</sub> ..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	
<b>Sector A</b>										
Ant <sub>1a</sub>	CBC78T-DS-43-2X	6.90	9.50	6.40		106.646	21.00	-8.75		14,197
Ant <sub>1b</sub>	(2) JAHH-45B-R3B	18.00	7.00	72.00		105.125	39.25	12.50	45.00	14,197
Ant <sub>1c</sub>										
Ant <sub>2a</sub>	RFV01U-D1A	15.00	10.00	15.00		105.896	30.00	-9.25		14,197
Ant <sub>2b</sub>										
Ant <sub>2c</sub>										
Ant <sub>3a</sub>	RFV01U-D2A	15.00	8.10	15.00		105.854	30.50	-8.50		14,198
Ant <sub>3b</sub>										
Ant <sub>3c</sub>										
Ant <sub>4a</sub>										
Ant <sub>4b</sub>										
Ant <sub>4c</sub>										
Ant <sub>5a</sub>										
Ant <sub>5b</sub>										
Ant <sub>5c</sub>										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RRFDC-3315-PF-48	15.73	10.25	26.66			36.00	7.00		332
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:	45.00	Deg	Leg A:		Deg	Ant <sub>1a</sub>	CBC78T-DS-43-2X	6.90	9.50	6.40		106.708	20.25	-8.75		21,202	
Sector B:	165.00	Deg	Leg B:		Deg	Ant <sub>1b</sub>	(2) JAHH-65B-R3B	13.80	8.20	72.00		105.813	31.00	12.50	165.00	21,202	
Sector C:	285.00	Deg	Leg C:		Deg	Ant <sub>1c</sub>											
Sector D:		Deg	Leg D:		Deg	Ant <sub>2a</sub>	RFV01U-D1A	15.00	10.00	15.00		105.771	31.50	-9.25		21,202	
<b>Climbing Facility Information</b>							Ant <sub>2b</sub>										
Location:	45.00	Deg	N/A				Ant <sub>2c</sub>										
Climbing Facility	Corrosion Type:		N/A				Ant <sub>3a</sub>	RFV01U-D2A	15.00	8.10	15.00		105.938	29.50	-8.50		21,203
	Access:		Climbing path was unobstructed.				Ant <sub>3b</sub>										
	Condition:		Good condition.				Ant <sub>3c</sub>										
							Ant <sub>4a</sub>										
							Ant <sub>4b</sub>										
							Ant <sub>4c</sub>										
							Ant <sub>5a</sub>										
							Ant <sub>5b</sub>										
							Ant <sub>5c</sub>										
							Ant on Standoff										
							Ant on Standoff										
							Ant on Tower	RRFDC-3315-PF-48	15.73	10.25	26.66		50	7.00			342
							Ant on Tower										
							<b>Sector C</b>										
							Ant <sub>1a</sub>	(4)CBC78T-DS-43-2X	6.90	9.50	6.40		106.708	20.25	-8.75		28,204
							Ant <sub>1b</sub>	(2) JAHH-65B-R3B	13.80	8.20	72.00		105.813	31.00	12.50	285.00	28,204
							Ant <sub>1c</sub>										
							Ant <sub>2a</sub>	RFV01U-D1A	15.00	10.00	15.00		105.771	31.50	-9.25		28,204
							Ant <sub>2b</sub>										
							Ant <sub>2c</sub>										
							Ant <sub>3a</sub>	RFV01U-D2A	15.00	8.10	15.00		105.938	29.50	-8.50		28,205
							Ant <sub>3b</sub>										
							Ant <sub>3c</sub>										
							Ant <sub>4a</sub>										
							Ant <sub>4b</sub>										
							Ant <sub>4c</sub>										
							Ant <sub>5a</sub>										
							Ant <sub>5b</sub>										
							Ant <sub>5c</sub>										
							Ant on Standoff										
							Ant on Standoff										
							Ant on Tower										
							Ant on Tower										
							<b>Sector D</b>										
							Ant <sub>1a</sub>										
							Ant <sub>1b</sub>										
							Ant <sub>1c</sub>										
							Ant <sub>2a</sub>										
							Ant <sub>2b</sub>										
							Ant <sub>2c</sub>										
							Ant <sub>3a</sub>										
							Ant <sub>3b</sub>										
							Ant <sub>3c</sub>										
							Ant <sub>4a</sub>										
							Ant <sub>4b</sub>										
							Ant <sub>4c</sub>										
							Ant <sub>5a</sub>										
							Ant <sub>5b</sub>										
							Ant <sub>5c</sub>										
							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	COAX TOTAL (2) 1.50"Ø HYBRID	49
2		
3		
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)

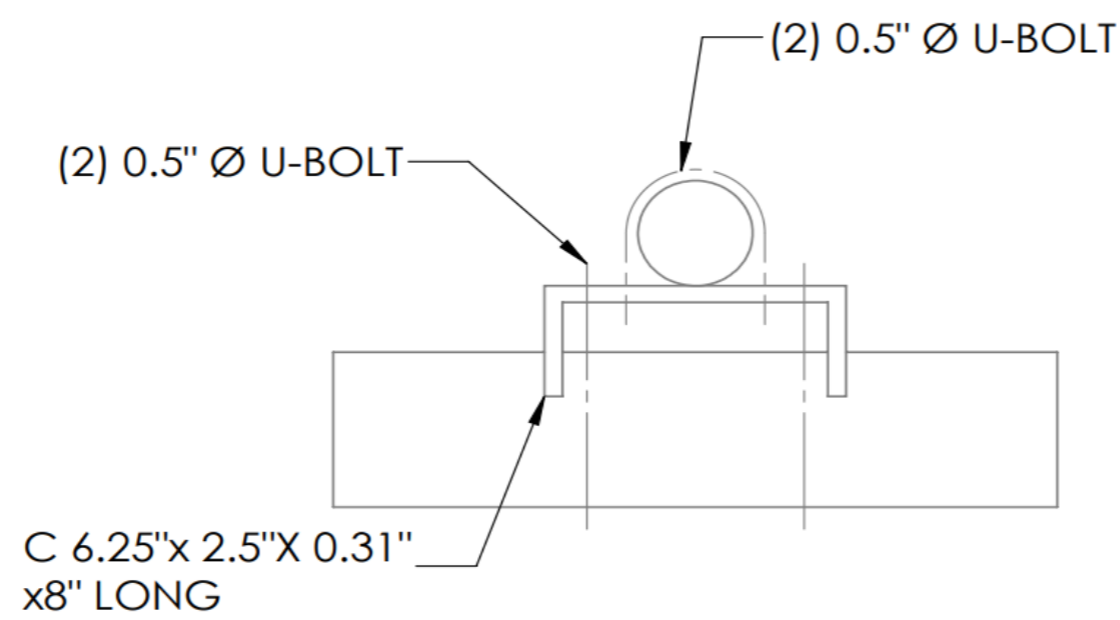
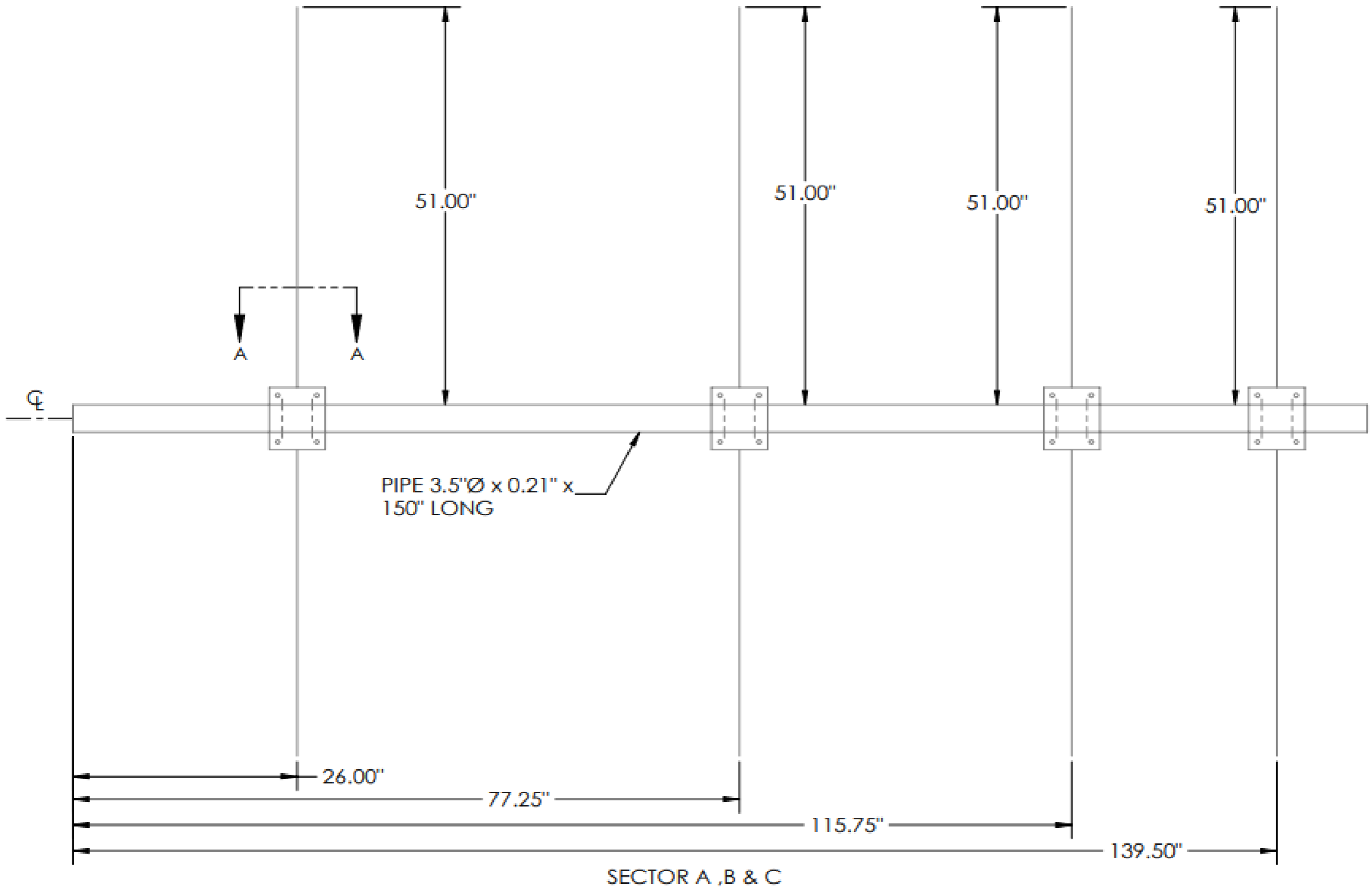
FCC #

1277236

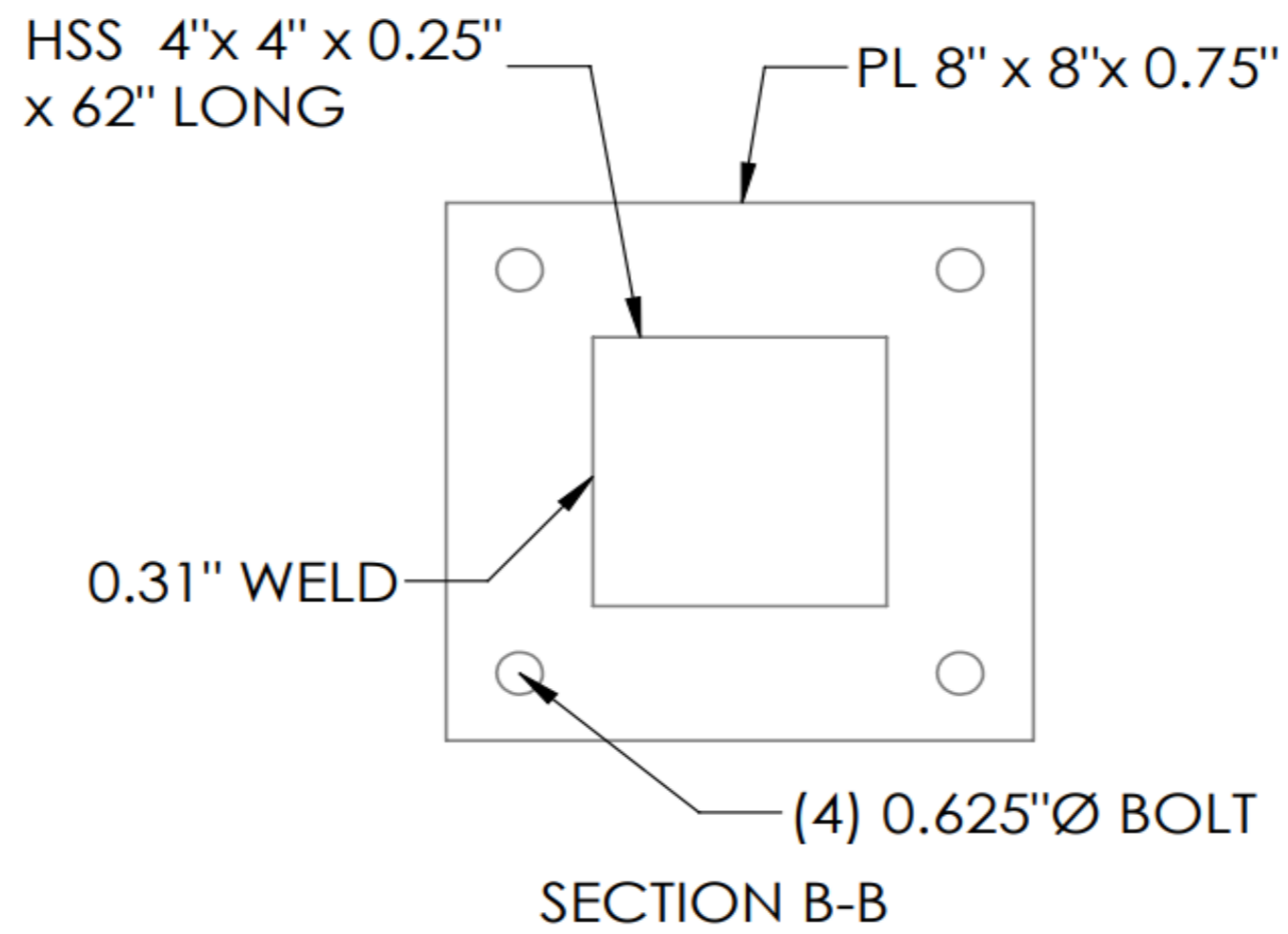
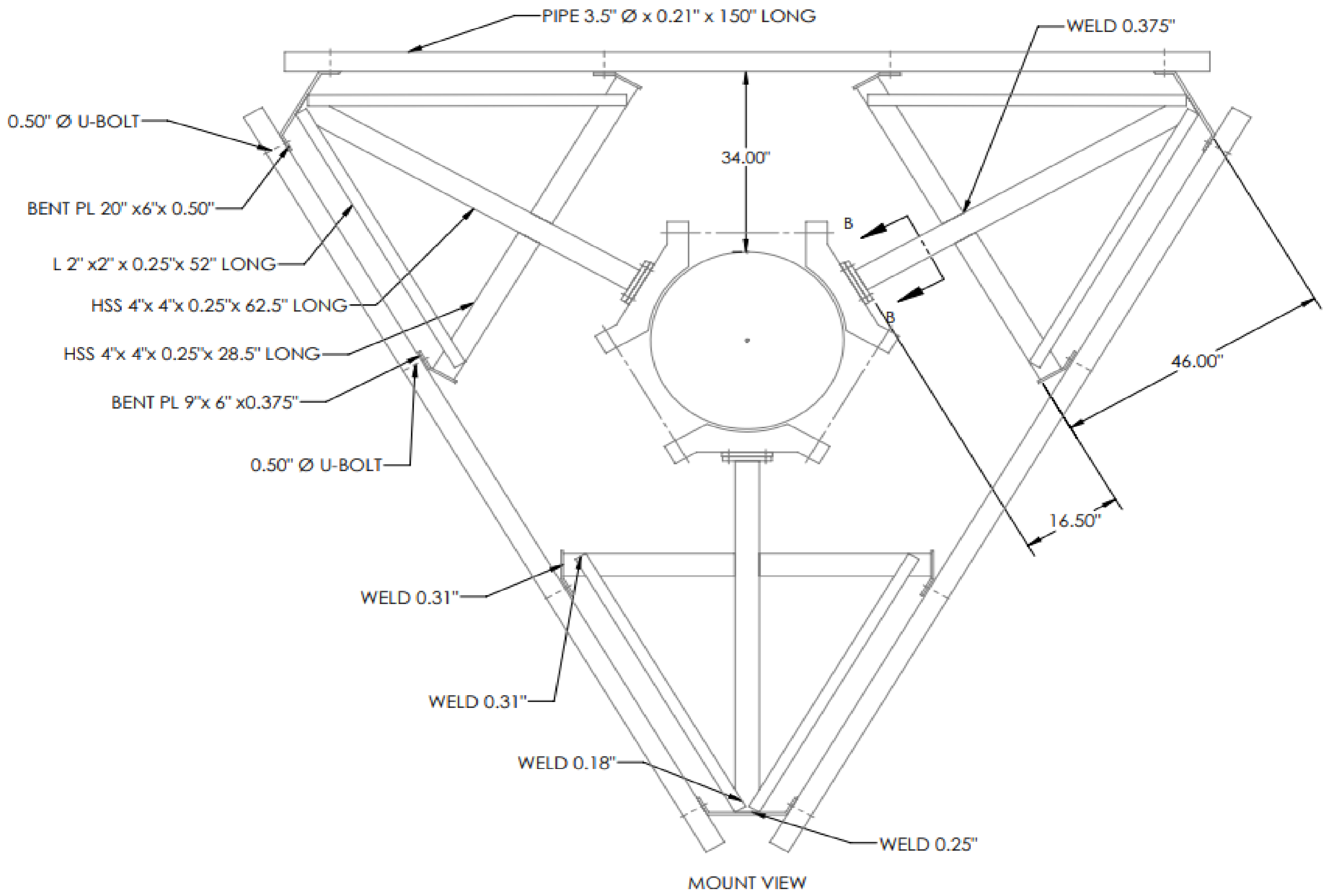
Tower Owner:	AMERICAN TOWER CORPORATION	Mapping Date:	3-30-2021
Site Name:	ATC : NAUGATUCK CT ; VZW :NAUGATUCK WEST CT	Tower Type:	MONOPOLE
Site Number or ID:	ATC : 283423, VZW:469151	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS DESIGN AND ENGINEERING LLC	Mount Elevation (Ft.):	104

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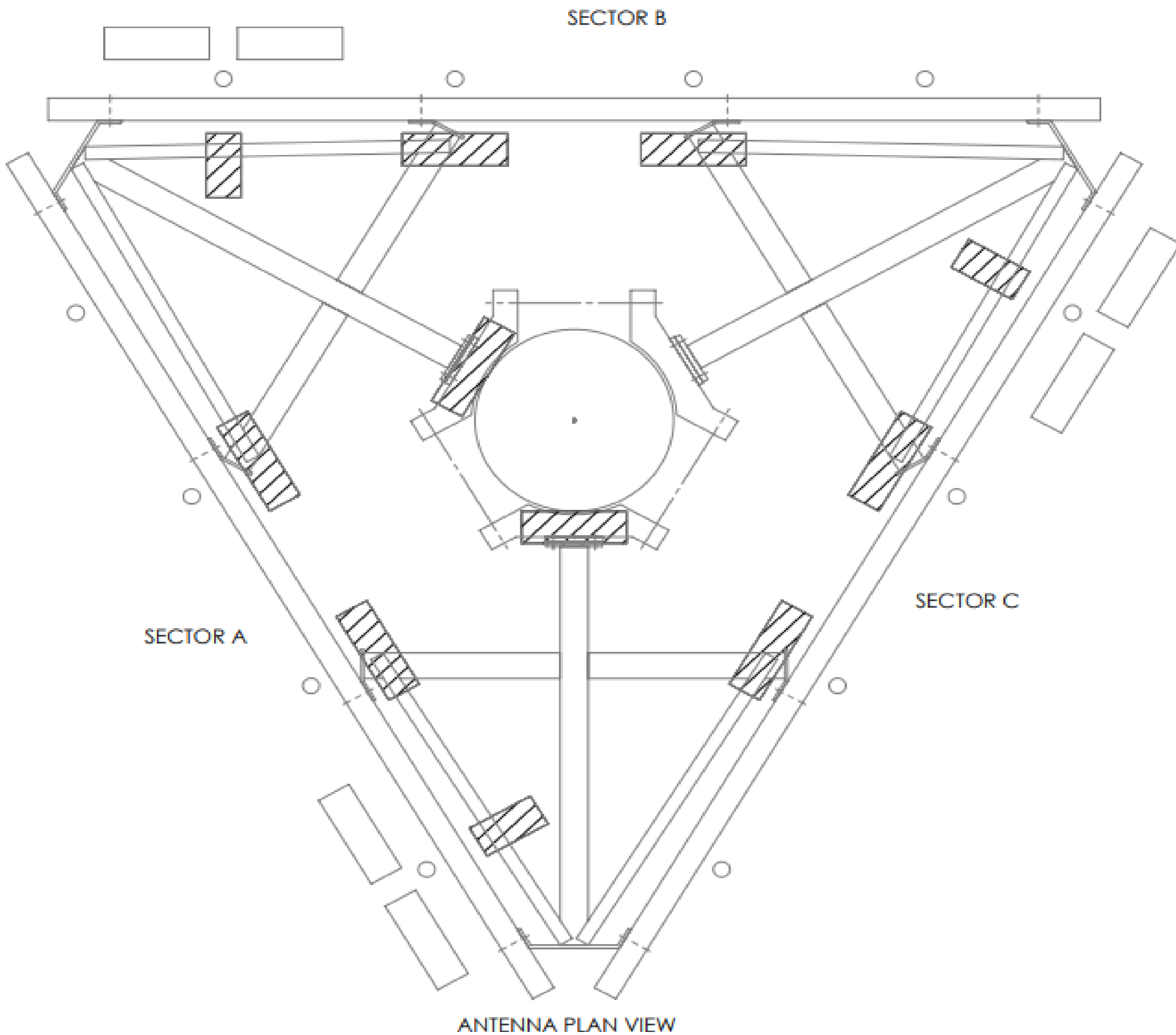
Please Insert Sketches of the Antenna Mount

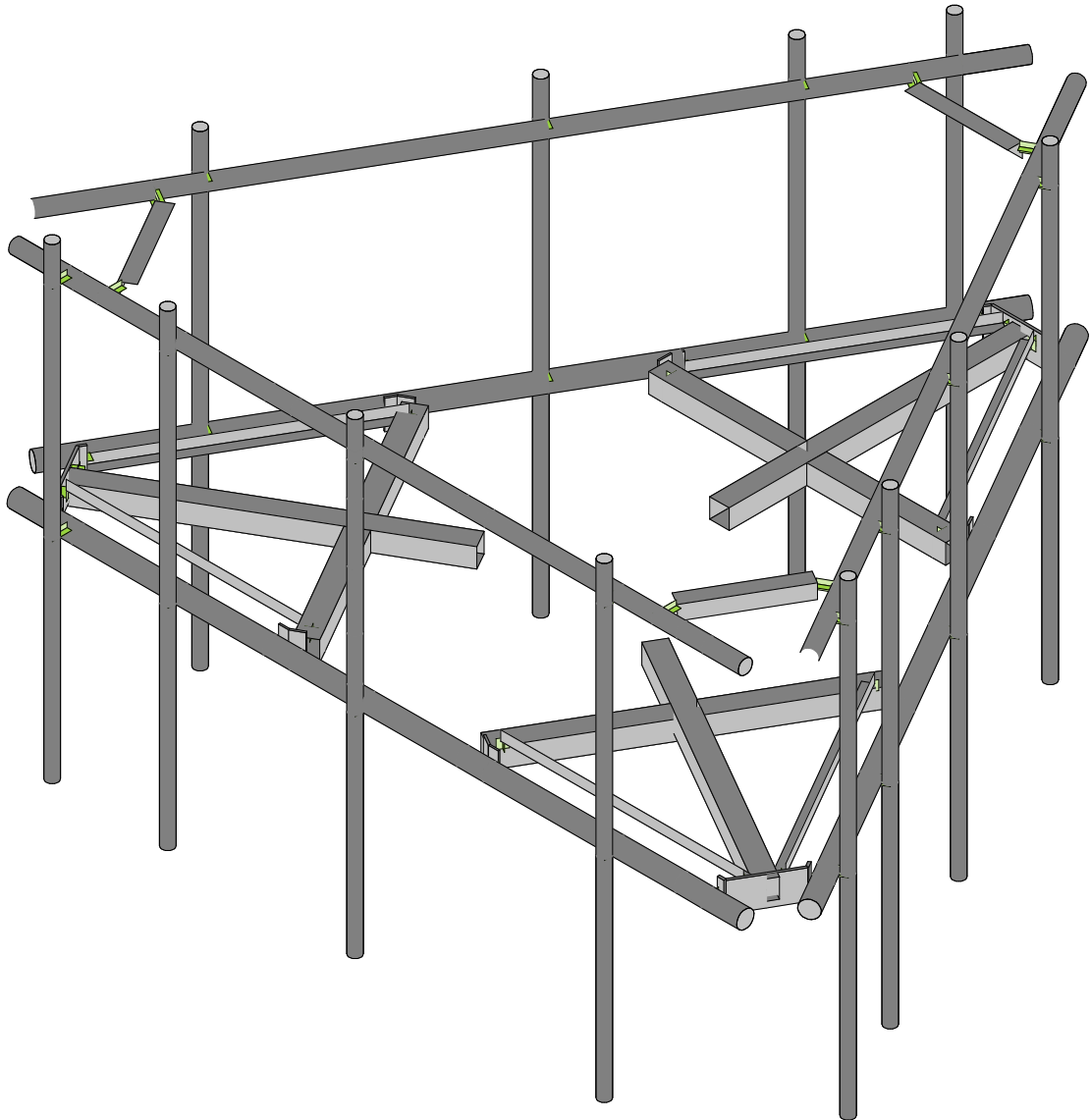
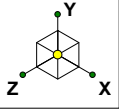


SECTION A-A









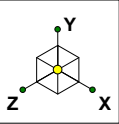
Maser Consulting

AE

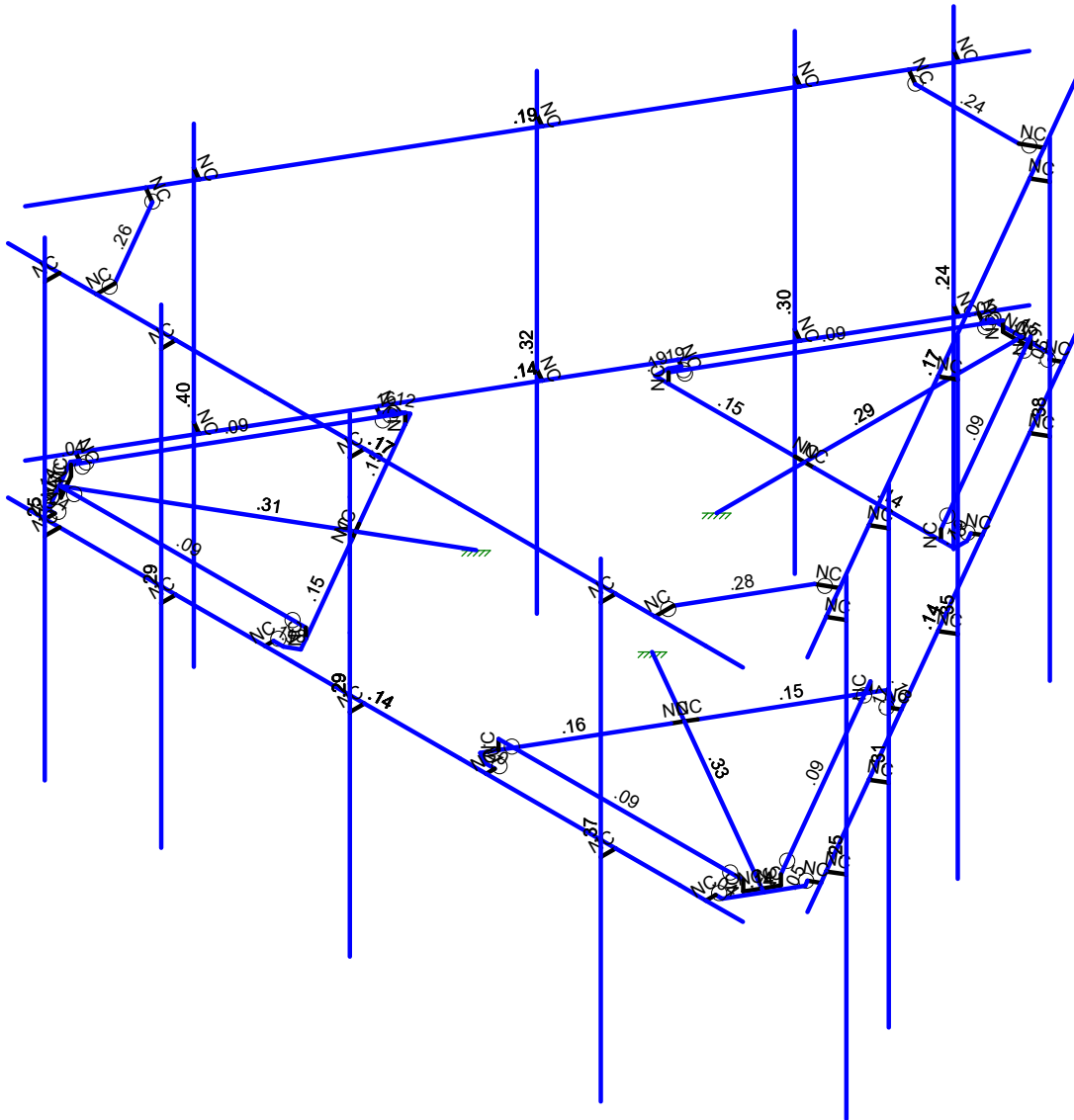
SK - 1

June 10, 2021 at 6:01 PM

FINAL\_469151-VZW\_MT\_LO\_H.r3d

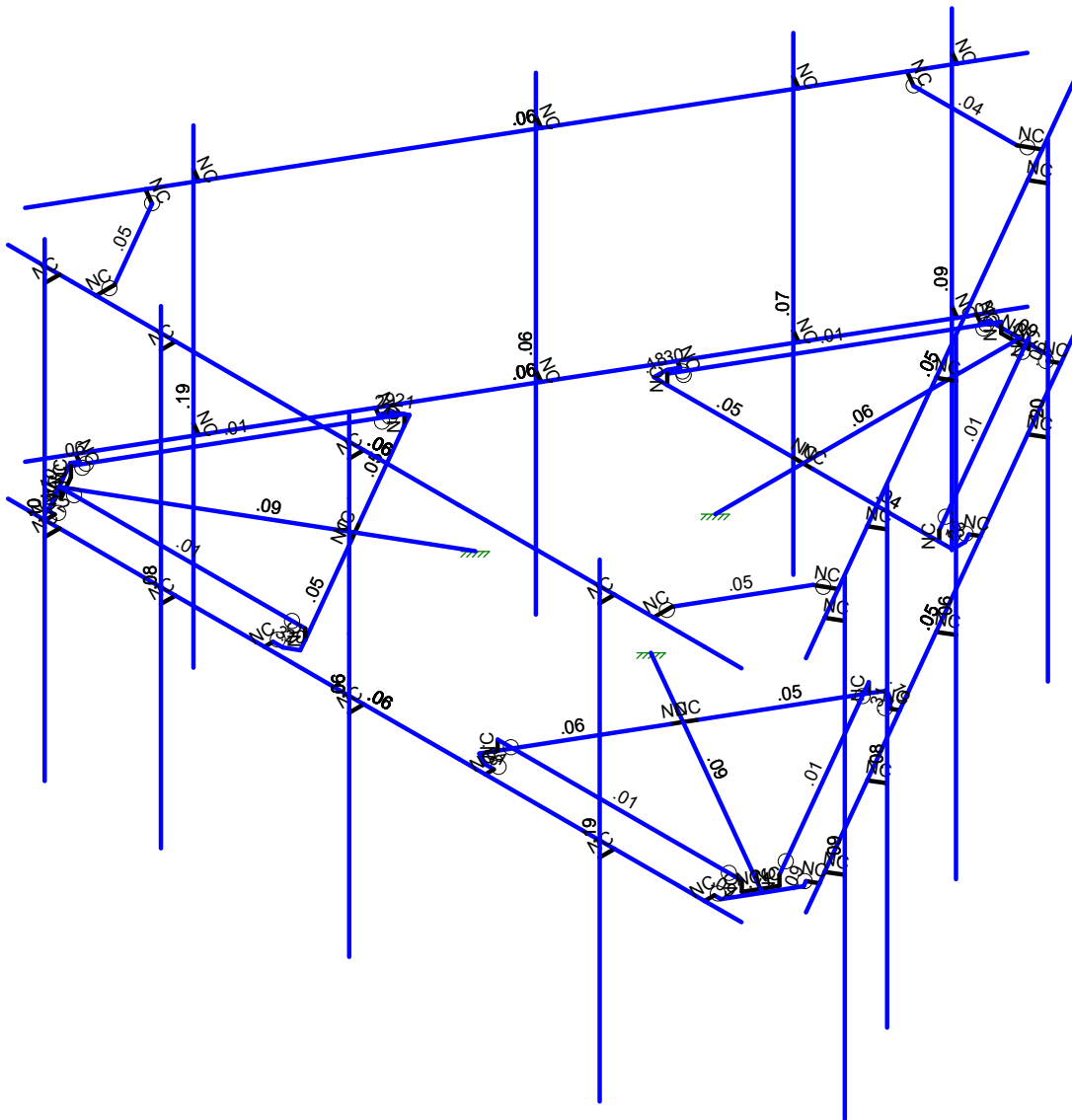
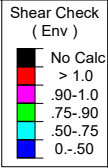
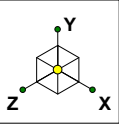


Code Check ( Env )	
Black	No Calc
Red	> 1.0
Pink	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



Member Code Checks Displayed (Enveloped)  
Results for LC 1, 1.2D+1.0Wo (0 Deg)

Maser Consulting	SK - 2
AE	June 10, 2021 at 6:01 PM
	FINAL_469151-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)  
 Results for LC 1, 1.2D+1.0Wo (0 Deg)

Maser Consulting		SK - 3
AE		June 10, 2021 at 6:01 PM
		FINAL_469151-VZW_MT_LO_H.r3d

**Basic Load Cases**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					81		
2	Antenna Di	None					81		
3	Antenna Wo (0 Deg)	None					81		
4	Antenna Wo (30 Deg)	None					81		
5	Antenna Wo (60 Deg)	None					81		
6	Antenna Wo (90 Deg)	None					81		
7	Antenna Wo (120 Deg)	None					81		
8	Antenna Wo (150 Deg)	None					81		
9	Antenna Wo (180 Deg)	None					81		
10	Antenna Wo (210 Deg)	None					81		
11	Antenna Wo (240 Deg)	None					81		
12	Antenna Wo (270 Deg)	None					81		
13	Antenna Wo (300 Deg)	None					81		
14	Antenna Wo (330 Deg)	None					81		
15	Antenna Wi (0 Deg)	None					81		
16	Antenna Wi (30 Deg)	None					81		
17	Antenna Wi (60 Deg)	None					81		
18	Antenna Wi (90 Deg)	None					81		
19	Antenna Wi (120 Deg)	None					81		
20	Antenna Wi (150 Deg)	None					81		
21	Antenna Wi (180 Deg)	None					81		
22	Antenna Wi (210 Deg)	None					81		
23	Antenna Wi (240 Deg)	None					81		
24	Antenna Wi (270 Deg)	None					81		
25	Antenna Wi (300 Deg)	None					81		
26	Antenna Wi (330 Deg)	None					81		
27	Antenna Wm (0 Deg)	None					81		
28	Antenna Wm (30 Deg)	None					81		
29	Antenna Wm (60 Deg)	None					81		
30	Antenna Wm (90 Deg)	None					81		
31	Antenna Wm (120 Deg)	None					81		
32	Antenna Wm (150 Deg)	None					81		
33	Antenna Wm (180 Deg)	None					81		
34	Antenna Wm (210 Deg)	None					81		
35	Antenna Wm (240 Deg)	None					81		
36	Antenna Wm (270 Deg)	None					81		
37	Antenna Wm (300 Deg)	None					81		
38	Antenna Wm (330 Deg)	None					81		
39	Structure D	None		-1					3
40	Structure Di	None						57	3
41	Structure Wo (0 Deg)	None						114	
42	Structure Wo (30 Deg)	None						114	
43	Structure Wo (60 Deg)	None						114	
44	Structure Wo (90 Deg)	None						114	
45	Structure Wo (120 D...	None						114	
46	Structure Wo (150 D...	None						114	
47	Structure Wo (180 D...	None						114	
48	Structure Wo (210 D...	None						114	
49	Structure Wo (240 D...	None						114	
50	Structure Wo (270 D...	None						114	
51	Structure Wo (300 D...	None						114	
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	

**Basic Load Cases (Continued)**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
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 De..	None						114	
67 Structure Wm (60 De..	None						114	
68 Structure Wm (90 De..	None						114	
69 Structure Wm (120 D..	None						114	
70 Structure Wm (150 D..	None						114	
71 Structure Wm (180 D..	None						114	
72 Structure Wm (210 D..	None						114	
73 Structure Wm (240 D..	None						114	
74 Structure Wm (270 D..	None						114	
75 Structure Wm (300 D..	None						114	
76 Structure Wm (330 D..	None						114	
77 Lm1	None					1		
78 Lm2	None					1		
79 Lv1	None					1		
80 Lv2	None					1		
81 BLC 39 Transient Are..	None						30	
82 BLC 40 Transient Are..	None						30	

**Load Combinations**

Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1 1.2D+1.0Wo (0 Deg)	Yes	Y			1	1.2	39	1.2	3	1	41	1							
2 1.2D+1.0Wo (30 Deg)	Yes	Y			1	1.2	39	1.2	4	1	42	1							
3 1.2D+1.0Wo (60 Deg)	Yes	Y			1	1.2	39	1.2	5	1	43	1							
4 1.2D+1.0Wo (90 Deg)	Yes	Y			1	1.2	39	1.2	6	1	44	1							
5 1.2D+1.0Wo (120 Deg)	Yes	Y			1	1.2	39	1.2	7	1	45	1							
6 1.2D+1.0Wo (150 Deg)	Yes	Y			1	1.2	39	1.2	8	1	46	1							
7 1.2D+1.0Wo (180 Deg)	Yes	Y			1	1.2	39	1.2	9	1	47	1							
8 1.2D+1.0Wo (210 Deg)	Yes	Y			1	1.2	39	1.2	10	1	48	1							
9 1.2D+1.0Wo (240 Deg)	Yes	Y			1	1.2	39	1.2	11	1	49	1							
10 1.2D+1.0Wo (270 Deg)	Yes	Y			1	1.2	39	1.2	12	1	50	1							
11 1.2D+1.0Wo (300 Deg)	Yes	Y			1	1.2	39	1.2	13	1	51	1							
12 1.2D+1.0Wo (330 Deg)	Yes	Y			1	1.2	39	1.2	14	1	52	1							
13 1.2D + 1.0Di + 1.0Wi (0 Deg)	Yes	Y			1	1.2	39	1.2	2	1	40	1	15	1	53	1			
14 1.2D + 1.0Di + 1.0Wi (30 De..	Yes	Y			1	1.2	39	1.2	2	1	40	1	16	1	54	1			
15 1.2D + 1.0Di + 1.0Wi (60 De..	Yes	Y			1	1.2	39	1.2	2	1	40	1	17	1	55	1			
16 1.2D + 1.0Di + 1.0Wi (90 De..	Yes	Y			1	1.2	39	1.2	2	1	40	1	18	1	56	1			
17 1.2D + 1.0Di + 1.0Wi (120 D..	Yes	Y			1	1.2	39	1.2	2	1	40	1	19	1	57	1			
18 1.2D + 1.0Di + 1.0Wi (150 D..	Yes	Y			1	1.2	39	1.2	2	1	40	1	20	1	58	1			
19 1.2D + 1.0Di + 1.0Wi (180 D..	Yes	Y			1	1.2	39	1.2	2	1	40	1	21	1	59	1			
20 1.2D + 1.0Di + 1.0Wi (210 D..	Yes	Y			1	1.2	39	1.2	2	1	40	1	22	1	60	1			
21 1.2D + 1.0Di + 1.0Wi (240 D..	Yes	Y			1	1.2	39	1.2	2	1	40	1	23	1	61	1			
22 1.2D + 1.0Di + 1.0Wi (270 D..	Yes	Y			1	1.2	39	1.2	2	1	40	1	24	1	62	1			
23 1.2D + 1.0Di + 1.0Wi (300 D..	Yes	Y			1	1.2	39	1.2	2	1	40	1	25	1	63	1			
24 1.2D + 1.0Di + 1.0Wi (330 D..	Yes	Y			1	1.2	39	1.2	2	1	40	1	26	1	64	1			
25 1.2D + 1.5Lm1 + 1.0Wm (0 ...	Yes	Y			1	1.2	39	1.2	77	1.5	27	1	65	1					
26 1.2D + 1.5Lm1 + 1.0Wm (30...	Yes	Y			1	1.2	39	1.2	77	1.5	28	1	66	1					





Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N16	-3.395833	-3.604167	4.32094	0	
16	N17	-3.395833	4.395833	4.32094	0	
17	N18	-5.375	-3.604167	4.32094	0	
18	N19	-5.375	4.395833	4.32094	0	
19	N20	-0.1875	-3.604167	4.32094	0	
20	N21	-0.1875	4.395833	4.32094	0	
21	N22	4.083333	-3.604167	4.32094	0	
22	N23	4.083333	4.395833	4.32094	0	
23	N24	0	0	-3.229167	0	
24	N27	0	0	-6.916667	0	
25	CP	0	0	0	0	
26	N29	2.315104	0	-3.229167	0	
27	N30	-2.315104	0	-3.229167	0	
28	N101	2.541667	0	-3.229167	0	
29	N102	-0.166667	0	-3.229167	0	
30	N103A	0.166667	0	-3.229167	0	
31	N104A	-2.541667	0	-3.447917	0	
32	N105	2.541667	0	-3.447917	0	
33	N131	2.458333	0	-3.592254	0	
34	N135	0.571615	0	-6.81969	0	
35	N144	-2.458333	0	-3.592254	0	
36	N148	-0.571615	0	-6.81969	0	
37	N86A	2.584629	0	-3.665171	0	
38	N86B	-2.584629	0	-3.665171	0	
39	N86C	-0.515625	0	-6.916667	0	
40	N87A	0.515625	0	-6.916667	0	
41	N86D	0.715429	0	-6.902721	0	
42	N86E	-0.715429	0	-6.902721	0	
43	N88A	0	0	-6.833333	0	
44	N87C	0.234238	0.166667	-6.833333	0	
45	N86G	0.234238	0	-6.833333	0	
46	N87B	-0.234238	0.166667	-6.833333	0	
47	N88C	-0.234238	0	-6.833333	0	
48	N105A	-1.430762	0	4.07094	0	
49	N109	-5.169162	0	4.07094	0	
50	N132	1.430762	0	4.07094	0	
51	N136	5.169162	0	4.07094	0	
52	N56	-1.497502	0	0.864583	0	
53	N57	-1.525707	0	3.815731	0	
54	N58	-3.954092	0.166667	-0.390356	0	
55	N59	-1.638988	0.166667	3.619522	0	
56	N60	-2.79654	0	1.614583	0	
57	N61	-5.990009	0	3.458333	0	
58	N63	-3.954092	0	-0.390356	0	
59	N64	-1.638988	0	3.619522	0	
60	N65	-4.067374	0	-0.586565	0	
61	N66	-2.713207	0	1.758921	0	
62	N67	-2.879874	0	1.470246	0	
63	N68	-1.71515	0	3.925106	0	
64	N69	-4.256817	0	-0.47719	0	
65	N70	-4.34015	0	-0.332852	0	
66	N71	-6.191832	0	2.914812	0	
67	N72	-1.881817	0	3.925106	0	
68	N73	-5.620217	0	3.904878	0	
69	N74	-4.466446	0	-0.405769	0	
70	N75	-1.881817	0	4.07094	0	
71	N76	-5.732197	0	3.904878	0	





Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N77	-6.247822	0	3.011789	0	
73	N78	-6.335646	0	2.831781	0	
74	N79	-5.620217	0	4.07094	0	
75	N80	-5.91784	0	3.416667	0	
76	N81	-6.034959	0.166667	3.213811	0	
77	N82	-6.034959	0	3.213811	0	
78	N83	-5.800721	0.166667	3.619522	0	
79	N84	-5.800721	0	3.619522	0	
80	N85	1.497502	0	0.864583	0	
81	N86	4.067374	0	-0.586565	0	
82	N87	1.638988	0.166667	3.619522	0	
83	N88	3.954092	0.166667	-0.390356	0	
84	N89	2.79654	0	1.614583	0	
85	N90	5.990009	0	3.458333	0	
86	N92	1.638988	0	3.619522	0	
87	N93	3.954092	0	-0.390356	0	
88	N94	1.525707	0	3.815731	0	
89	N95	2.879874	0	1.470246	0	
90	N96	2.713207	0	1.758921	0	
91	N97	4.256817	0	-0.47719	0	
92	N98	1.71515	0	3.925106	0	
93	N99	1.881817	0	3.925106	0	
94	N100	5.620217	0	3.904878	0	
95	N101A	4.34015	0	-0.332852	0	
96	N102A	6.191832	0	2.914812	0	
97	N103	1.881817	0	4.07094	0	
98	N104	4.466446	0	-0.405769	0	
99	N105B	6.247822	0	3.011789	0	
100	N106	5.732197	0	3.904878	0	
101	N107	5.620217	0	4.07094	0	
102	N108	6.335646	0	2.831781	0	
103	N109A	5.91784	0	3.416667	0	
104	N110	5.800721	0.166667	3.619522	0	
105	N111	5.800721	0	3.619522	0	
106	N112	6.034959	0.166667	3.213811	0	
107	N113	6.034959	0	3.213811	0	
108	N108A	0.400537	0	-7.448129	0	
109	N109B	6.650537	0	3.377189	0	
110	N110A	1.483871	0	-5.57174	0	
111	N111A	1.700377	0	-5.69674	0	
112	N112A	6.213037	0	2.619417	0	
113	N113A	6.429544	0	2.494417	0	
114	N114	3.619287	0	-1.87309	0	
115	N115	3.835794	0	-1.99809	0	
116	N116	5.223454	0	0.905408	0	
117	N117	5.43996	0	0.780408	0	
118	N118	5.43996	-3.604167	0.780408	0	
119	N119	5.43996	4.395833	0.780408	0	
120	N120	6.429544	-3.604167	2.494417	0	
121	N121	6.429544	4.395833	2.494417	0	
122	N122	3.835794	-3.604167	-1.99809	0	
123	N123	3.835794	4.395833	-1.99809	0	
124	N124	1.700377	-3.604167	-5.69674	0	
125	N125	1.700377	4.395833	-5.69674	0	
126	N126	-6.650537	0	3.377189	0	
127	N127	-0.400537	0	-7.448129	0	
128	N128	-5.567204	0	1.5008	0	



**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N129	-5.78371	0	1.3758	0	
130	N130	-0.838037	0	-6.690357	0	
131	N131A	-1.054544	0	-6.815357	0	
132	N132A	-3.431787	0	-2.19785	0	
133	N133	-3.648294	0	-2.32285	0	
134	N134	-1.827621	0	-4.976348	0	
135	N135A	-2.044127	0	-5.101348	0	
136	N136A	-2.044127	-3.604167	-5.101348	0	
137	N137	-2.044127	4.395833	-5.101348	0	
138	N138	-1.054544	-3.604167	-6.815357	0	
139	N139	-1.054544	4.395833	-6.815357	0	
140	N140	-3.648294	-3.604167	-2.32285	0	
141	N141	-3.648294	4.395833	-2.32285	0	
142	N142	-5.78371	-3.604167	1.3758	0	
143	N143	-5.78371	4.395833	1.3758	0	
144	N144A	-0.1875	2.166667	4.32094	0	
145	N145	-0.1875	0.416667	4.32094	0	
146	N146	-0.1875	3.916667	4.32094	0	
147	N147	-0.1875	3.166667	4.32094	0	
148	N148A	-0.1875	1.166667	4.32094	0	
149	N149	6.25	3.75	4.07094	0	
150	N150	-6.25	3.75	4.07094	0	
151	N151	4.083333	3.75	4.07094	0	
152	N152	4.083333	3.75	4.32094	0	
153	N153	-5.375	3.75	4.07094	0	
154	N154	-5.375	3.75	4.32094	0	
155	N155	-0.1875	3.75	4.07094	0	
156	N156	-0.1875	3.75	4.32094	0	
157	N157	-3.395833	3.75	4.07094	0	
158	N158	-3.395833	3.75	4.32094	0	
159	N159	-1.430762	3.75	4.07094	0	
160	N160	-5.169162	3.75	4.07094	0	
161	N161	1.430762	3.75	4.07094	0	
162	N162	5.169162	3.75	4.07094	0	
163	N163	-1.881817	3.75	4.07094	0	
164	N164	-5.620217	3.75	4.07094	0	
165	N165	1.881817	3.75	4.07094	0	
166	N166	5.620217	3.75	4.07094	0	
167	N168	0.400537	3.75	-7.448129	0	
168	N169	6.650537	3.75	3.377189	0	
169	N170	1.483871	3.75	-5.57174	0	
170	N171	1.700377	3.75	-5.69674	0	
171	N172	6.213037	3.75	2.619417	0	
172	N173	6.429544	3.75	2.494417	0	
173	N174	3.619287	3.75	-1.87309	0	
174	N175	3.835794	3.75	-1.99809	0	
175	N176	5.223454	3.75	0.905408	0	
176	N177	5.43996	3.75	0.780408	0	
177	N179	-6.650537	3.75	3.377189	0	
178	N180	-0.400537	3.75	-7.448129	0	
179	N181	-5.567204	3.75	1.5008	0	
180	N182	-5.78371	3.75	1.3758	0	
181	N183	-0.838037	3.75	-6.690357	0	
182	N184	-1.054544	3.75	-6.815357	0	
183	N185	-3.431787	3.75	-2.19785	0	
184	N186	-3.648294	3.75	-2.32285	0	
185	N187	-1.827621	3.75	-4.976348	0	

### Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
186	N188	-2.044127	3.75	-5.101348	0	
187	N187A	-4.75	3.75	4.07094	0	
188	N188A	4.75	3.75	4.07094	0	
189	N189	-4.75	3.75	3.75844	0	
190	N191	4.75	3.75	3.75844	0	
191	N192	5.900537	3.75	2.078151	0	
192	N193	1.150537	3.75	-6.149091	0	
193	N194	5.629904	3.75	2.234401	0	
194	N195	0.879904	3.75	-5.992841	0	
195	N197	-1.150537	3.75	-6.149091	0	
196	N198	-5.900537	3.75	2.078151	0	
197	N199	-0.879904	3.75	-5.992841	0	
198	N200	-5.629904	3.75	2.234401	0	

### Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B Re...	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2x6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237
4	Platform Crossmem...	HSS4X4X4	Beam	SquareTube	A500 Gr.B Re...	Typical	3.37	7.8	7.8	12.8
5	Grating Support	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical	.944	.346	.346	.021
6	Mod Support Rail C...	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
7	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
8	Mod Support Rail	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101

### Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...Density[k/...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65 .49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65 .49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65 .49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65 .527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65 .527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65 .49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65 .49	50	1.4	65	1.3
8	Q235	29000	11154	.3	.65 .49	35	1.5	58	1.2

### Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
3	M10	N101	N103A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
4	M19	N8	N9			RIGID	None	None	RIGID	Typical
5	M20	N10	N11			RIGID	None	None	RIGID	Typical
6	M21	N12	N13			RIGID	None	None	RIGID	Typical
7	M22	N14	N15			RIGID	None	None	RIGID	Typical
8	MP3A	N17	N16			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
9	MP4A	N19	N18			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
10	MP2A	N21	N20			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
11	MP1A	N23	N22			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
12	M43	N102	N5			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
13	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical

**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
14	M35A	N7	N30			RIGID	None	None	RIGID	Typical
15	M36A	N6	N29			RIGID	None	None	RIGID	Typical
16	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
17	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
18	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
19	M58	N102	N24			RIGID	None	None	RIGID	Typical
20	M59	N24	N103A			RIGID	None	None	RIGID	Typical
21	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
22	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
23	M79	N131	N86A			RIGID	None	None	RIGID	Typical
24	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical
25	M83	N135	N86D			RIGID	None	None	RIGID	Typical
26	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
27	M85	N104A	N144			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
28	M88	N144	N86B			RIGID	None	None	RIGID	Typical
29	M91	N86C	N148			Corner Plate	Beam	BAR	A36 Gr.36	Typical
30	M92	N148	N86E			RIGID	None	None	RIGID	Typical
31	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
32	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
33	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
34	M34	N56	N61			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
35	M35	N65	N67			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
36	M36	N66	N57			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
37	M37	N76	N77			Corner Plate	Beam	BAR	A36 Gr.36	Typical
38	M38	N59	N64		240	RIGID	None	None	RIGID	Typical
39	M39	N58	N63		240	RIGID	None	None	RIGID	Typical
40	M40	N81	N58			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
41	M41	N59	N83			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
42	M42	N83	N84		240	RIGID	None	None	RIGID	Typical
43	M43A	N66	N60			RIGID	None	None	RIGID	Typical
44	M44	N60	N67			RIGID	None	None	RIGID	Typical
45	M45	N65	N69			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
46	M46A	N69	N70			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
47	M47	N70	N74			RIGID	None	None	RIGID	Typical
48	M48	N77	N71			Corner Plate	Beam	BAR	A36 Gr.36	Typical
49	M49	N71	N78			RIGID	None	None	RIGID	Typical
50	M50A	N57	N68			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
51	M51C	N68	N72			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
52	M52A	N72	N75			RIGID	None	None	RIGID	Typical
53	M53	N76	N73			Corner Plate	Beam	BAR	A36 Gr.36	Typical
54	M54	N73	N79			RIGID	None	None	RIGID	Typical
55	M55	N84	N80			RIGID	None	None	RIGID	Typical
56	M56	N80	N82			RIGID	None	None	RIGID	Typical
57	M57	N81	N82		240	RIGID	None	None	RIGID	Typical
58	M58A	N85	N90			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
59	M59A	N94	N96			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
60	M60	N95	N86			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
61	M61	N105B	N106			Corner Plate	Beam	BAR	A36 Gr.36	Typical
62	M62	N88	N93		120	RIGID	None	None	RIGID	Typical
63	M63	N87	N92		120	RIGID	None	None	RIGID	Typical
64	M64	N110	N87			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
65	M65	N88	N112			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
66	M66	N112	N113		120	RIGID	None	None	RIGID	Typical
67	M67	N95	N89			RIGID	None	None	RIGID	Typical
68	M68	N89	N96			RIGID	None	None	RIGID	Typical
69	M69	N94	N98			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
70	M70	N98	N99			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical

**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
71	M71	N99	N103			RIGID	None	None	RIGID	Typical
72	M72	N106	N100			Corner Plate	Beam	BAR	A36 Gr.36	Typical
73	M73	N100	N107			RIGID	None	None	RIGID	Typical
74	M74	N86	N97			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
75	M75	N97	N101A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
76	M76A	N101A	N104			RIGID	None	None	RIGID	Typical
77	M77A	N105B	N102A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
78	M78	N102A	N108			RIGID	None	None	RIGID	Typical
79	M79A	N113	N109A			RIGID	None	None	RIGID	Typical
80	M80A	N109A	N111			RIGID	None	None	RIGID	Typical
81	M81	N110	N111		120	RIGID	None	None	RIGID	Typical
82	M82	N108A	N109B			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
83	M83A	N110A	N111A			RIGID	None	None	RIGID	Typical
84	M84A	N112A	N113A			RIGID	None	None	RIGID	Typical
85	M85A	N114	N115			RIGID	None	None	RIGID	Typical
86	M86	N116	N117			RIGID	None	None	RIGID	Typical
87	MP3C	N119	N118		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
88	MP4C	N121	N120		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
89	MP2C	N123	N122		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
90	MP1C	N125	N124		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
91	M91A	N126	N127			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
92	M92A	N128	N129			RIGID	None	None	RIGID	Typical
93	M93	N130	N131A			RIGID	None	None	RIGID	Typical
94	M94	N132A	N133			RIGID	None	None	RIGID	Typical
95	M95	N134	N135A			RIGID	None	None	RIGID	Typical
96	MP3B	N137	N136A		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
97	MP4B	N139	N138		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
98	MP2B	N141	N140		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
99	MP1B	N143	N142		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
100	M100	N149	N150			Mod Support ...	Column	Pipe	A53 Gr.B	Typical
101	M101	N151	N152			RIGID	None	None	RIGID	Typical
102	M102	N153	N154			RIGID	None	None	RIGID	Typical
103	M103	N155	N156			RIGID	None	None	RIGID	Typical
104	M104	N157	N158			RIGID	None	None	RIGID	Typical
105	M105	N168	N169			Mod Support ...	Column	Pipe	A53 Gr.B	Typical
106	M106	N170	N171			RIGID	None	None	RIGID	Typical
107	M107	N172	N173			RIGID	None	None	RIGID	Typical
108	M108	N174	N175			RIGID	None	None	RIGID	Typical
109	M109	N176	N177			RIGID	None	None	RIGID	Typical
110	M110	N179	N180			Mod Support ...	Column	Pipe	A53 Gr.B	Typical
111	M111	N181	N182			RIGID	None	None	RIGID	Typical
112	M112	N183	N184			RIGID	None	None	RIGID	Typical
113	M113	N185	N186			RIGID	None	None	RIGID	Typical
114	M114	N187	N188			RIGID	None	None	RIGID	Typical
115	M115	N189	N187A			RIGID	None	None	RIGID	Typical
116	M116	N191	N188A			RIGID	None	None	RIGID	Typical
117	M117	N194	N192			RIGID	None	None	RIGID	Typical
118	M118	N195	N193			RIGID	None	None	RIGID	Typical
119	M119	N199	N197			RIGID	None	None	RIGID	Typical
120	M120	N200	N198			RIGID	None	None	RIGID	Typical
121	M121	N200	N189		180	Mod Support ...	Beam	Single Angle	A36 Gr.36	Typical
122	M122	N191	N194		180	Mod Support ...	Beam	Single Angle	A36 Gr.36	Typical
123	M123	N195	N199		180	Mod Support ...	Beam	Single Angle	A36 Gr.36	Typical



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### Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Face Horizo...	12.5			Lbyy						Lateral
2	M4	Standoff Ho...	5.188			Lbyy						Lateral
3	M10	Platform Cr...	2.375			Lbyy						Lateral
4	MP3A	Mount Pipe	8			Lbyy						Lateral
5	MP4A	Mount Pipe	8			Lbyy						Lateral
6	MP2A	Mount Pipe	8			Lbyy						Lateral
7	MP1A	Mount Pipe	8			Lbyy						Lateral
8	M43	Platform Cr...	2.375			Lbyy						Lateral
9	M46	Corner Plate	1.031			Lbyy						Lateral
10	M51B	Grating Sup...	4.162			Lbyy						Lateral
11	M52B	Grating Sup...	4.162			Lbyy						Lateral
12	M76	Cross Arm ...	.219									Lateral
13	M77	Cross Arm ...	.167									Lateral
14	M80	Corner Plate	.112			Lbyy						Lateral
15	M84	Cross Arm ...	.219									Lateral
16	M85	Cross Arm ...	.167									Lateral
17	M91	Corner Plate	.112			Lbyy						Lateral
18	M34	Standoff Ho...	5.188			Lbyy						Lateral
19	M35	Platform Cr...	2.375			Lbyy						Lateral
20	M36	Platform Cr...	2.375			Lbyy						Lateral
21	M37	Corner Plate	1.031			Lbyy						Lateral
22	M40	Grating Sup...	4.162			Lbyy						Lateral
23	M41	Grating Sup...	4.162			Lbyy						Lateral
24	M45	Cross Arm ...	.219									Lateral
25	M46A	Cross Arm ...	.167									Lateral
26	M48	Corner Plate	.112			Lbyy						Lateral
27	M50A	Cross Arm ...	.219									Lateral
28	M51C	Cross Arm ...	.167									Lateral
29	M53	Corner Plate	.112			Lbyy						Lateral
30	M58A	Standoff Ho...	5.188			Lbyy						Lateral
31	M59A	Platform Cr...	2.375			Lbyy						Lateral
32	M60	Platform Cr...	2.375			Lbyy						Lateral
33	M61	Corner Plate	1.031			Lbyy						Lateral
34	M64	Grating Sup...	4.162			Lbyy						Lateral
35	M65	Grating Sup...	4.162			Lbyy						Lateral
36	M69	Cross Arm ...	.219									Lateral
37	M70	Cross Arm ...	.167									Lateral
38	M72	Corner Plate	.112			Lbyy						Lateral
39	M74	Cross Arm ...	.219									Lateral
40	M75	Cross Arm ...	.167									Lateral
41	M77A	Corner Plate	.112			Lbyy						Lateral
42	M82	Face Horizo...	12.5			Lbyy						Lateral
43	MP3C	Mount Pipe	8			Lbyy						Lateral
44	MP4C	Mount Pipe	8			Lbyy						Lateral
45	MP2C	Mount Pipe	8			Lbyy						Lateral
46	MP1C	Mount Pipe	8			Lbyy						Lateral
47	M91A	Face Horizo...	12.5			Lbyy						Lateral
48	MP3B	Mount Pipe	8			Lbyy						Lateral
49	MP4B	Mount Pipe	8			Lbyy						Lateral
50	MP2B	Mount Pipe	8			Lbyy						Lateral
51	MP1B	Mount Pipe	8			Lbyy						Lateral
52	M100	Mod Suppor...	12.5			Lbyy						Lateral
53	M105	Mod Suppor...	12.5			Lbyy						Lateral
54	M110	Mod Suppor...	12.5			Lbyy						Lateral
55	M121	Mod Suppor...	1.76			Lbyy						Lateral
56	M122	Mod Suppor...	1.76			Lbyy						Lateral



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**Hot Rolled Steel Design Parameters (Continued)**

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
57	M123	Mod Suppor..	1.76			Lbyy						Lateral

**Member Point Loads (BLC 1 : Antenna D)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	Y	-43.55	1.23
2	MP4A	My	-.022	1.23
3	MP4A	Mz	0	1.23
4	MP4A	Y	-43.55	3.23
5	MP4A	My	-.022	3.23
6	MP4A	Mz	0	3.23
7	MP4B	Y	-43.55	1.23
8	MP4B	My	.02	1.23
9	MP4B	Mz	-.007	1.23
10	MP4B	Y	-43.55	3.23
11	MP4B	My	.02	3.23
12	MP4B	Mz	-.007	3.23
13	MP4C	Y	-43.55	1.23
14	MP4C	My	.004	1.23
15	MP4C	Mz	.021	1.23
16	MP4C	Y	-43.55	3.23
17	MP4C	My	.004	3.23
18	MP4C	Mz	.021	3.23
19	MP1A	Y	-45.75	.48
20	MP1A	My	-.048	.48
21	MP1A	Mz	.042	.48
22	MP1A	Y	-45.75	3.98
23	MP1A	My	-.048	3.98
24	MP1A	Mz	.042	3.98
25	MP1A	Y	-45.75	.48
26	MP1A	My	-.048	.48
27	MP1A	Mz	-.042	.48
28	MP1A	Y	-45.75	3.98
29	MP1A	My	-.048	3.98
30	MP1A	Mz	-.042	3.98
31	MP1B	Y	-31.65	.48
32	MP1B	My	.023	.48
33	MP1B	Mz	-.034	.48
34	MP1B	Y	-31.65	3.98
35	MP1B	My	.023	3.98
36	MP1B	Mz	-.034	3.98
37	MP1C	Y	-31.65	.48
38	MP1C	My	.029	.48
39	MP1C	Mz	.028	.48
40	MP1C	Y	-31.65	3.98
41	MP1C	My	.029	3.98
42	MP1C	Mz	.028	3.98
43	MP1B	Y	-31.65	.48
44	MP1B	My	.039	.48
45	MP1B	Mz	.011	.48
46	MP1B	Y	-31.65	3.98
47	MP1B	My	.039	3.98
48	MP1B	Mz	.011	3.98
49	MP1C	Y	-31.65	.48
50	MP1C	My	-.018	.48
51	MP1C	Mz	.037	.48



**Member Point Loads (BLC 1 : Antenna D) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
52	MP1C	Y	-31.65	3.98
53	MP1C	My	-.018	3.98
54	MP1C	Mz	.037	3.98
55	MP1A	Y	-10.4	2.23
56	MP1A	My	.008	2.23
57	MP1A	Mz	0	2.23
58	MP1B	Y	-10.4	2.23
59	MP1B	My	.008	2.23
60	MP1B	Mz	0	2.23
61	MP1C	Y	-10.4	2.23
62	MP1C	My	.008	2.23
63	MP1C	Mz	0	2.23
64	MP2A	Y	-84.4	2.23
65	MP2A	My	.065	2.23
66	MP2A	Mz	0	2.23
67	MP2B	Y	-84.4	2.23
68	MP2B	My	-.061	2.23
69	MP2B	Mz	.022	2.23
70	MP2C	Y	-84.4	2.23
71	MP2C	My	-.011	2.23
72	MP2C	Mz	-.064	2.23
73	MP3A	Y	-70.3	2.23
74	MP3A	My	.035	2.23
75	MP3A	Mz	0	2.23
76	MP3B	Y	-70.3	2.23
77	MP3B	My	-.033	2.23
78	MP3B	Mz	.012	2.23
79	MP3C	Y	-70.3	2.23
80	MP3C	My	-.006	2.23
81	MP3C	Mz	-.035	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	Y	-34.498	1.23
2	MP4A	My	-.017	1.23
3	MP4A	Mz	0	1.23
4	MP4A	Y	-34.498	3.23
5	MP4A	My	-.017	3.23
6	MP4A	Mz	0	3.23
7	MP4B	Y	-34.498	1.23
8	MP4B	My	.016	1.23
9	MP4B	Mz	-.006	1.23
10	MP4B	Y	-34.498	3.23
11	MP4B	My	.016	3.23
12	MP4B	Mz	-.006	3.23
13	MP4C	Y	-34.498	1.23
14	MP4C	My	.003	1.23
15	MP4C	Mz	.017	1.23
16	MP4C	Y	-34.498	3.23
17	MP4C	My	.003	3.23
18	MP4C	Mz	.017	3.23
19	MP1A	Y	-76.303	.48
20	MP1A	My	-.079	.48
21	MP1A	Mz	.07	.48
22	MP1A	Y	-76.303	3.98
23	MP1A	My	-.079	3.98





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
24	MP1A	Mz	.07	3.98
25	MP1A	Y	-76.303	.48
26	MP1A	My	-.079	.48
27	MP1A	Mz	-.07	.48
28	MP1A	Y	-76.303	3.98
29	MP1A	My	-.079	3.98
30	MP1A	Mz	-.07	3.98
31	MP1B	Y	-67.794	.48
32	MP1B	My	.049	.48
33	MP1B	Mz	-.072	.48
34	MP1B	Y	-67.794	3.98
35	MP1B	My	.049	3.98
36	MP1B	Mz	-.072	3.98
37	MP1C	Y	-67.794	.48
38	MP1C	My	.062	.48
39	MP1C	Mz	.061	.48
40	MP1C	Y	-67.794	3.98
41	MP1C	My	.062	3.98
42	MP1C	Mz	.061	3.98
43	MP1B	Y	-67.794	.48
44	MP1B	My	.084	.48
45	MP1B	Mz	.024	.48
46	MP1B	Y	-67.794	3.98
47	MP1B	My	.084	3.98
48	MP1B	Mz	.024	3.98
49	MP1C	Y	-67.794	.48
50	MP1C	My	-.038	.48
51	MP1C	Mz	.078	.48
52	MP1C	Y	-67.794	3.98
53	MP1C	My	-.038	3.98
54	MP1C	Mz	.078	3.98
55	MP1A	Y	-10.359	2.23
56	MP1A	My	.008	2.23
57	MP1A	Mz	0	2.23
58	MP1B	Y	-10.359	2.23
59	MP1B	My	.008	2.23
60	MP1B	Mz	0	2.23
61	MP1C	Y	-10.359	2.23
62	MP1C	My	.008	2.23
63	MP1C	Mz	0	2.23
64	MP2A	Y	-43.474	2.23
65	MP2A	My	.034	2.23
66	MP2A	Mz	0	2.23
67	MP2B	Y	-43.474	2.23
68	MP2B	My	-.031	2.23
69	MP2B	Mz	.011	2.23
70	MP2C	Y	-43.474	2.23
71	MP2C	My	-.006	2.23
72	MP2C	Mz	-.033	2.23
73	MP3A	Y	-39.087	2.23
74	MP3A	My	.02	2.23
75	MP3A	Mz	0	2.23
76	MP3B	Y	-39.087	2.23
77	MP3B	My	-.018	2.23
78	MP3B	Mz	.007	2.23
79	MP3C	Y	-39.087	2.23
80	MP3C	My	-.003	2.23



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
81	MP3C	Mz	-0.19	2.23

**Member Point Loads (BLC 3 : Antenna Wo (0 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	1.23
2	MP4A	Z	-68.192	1.23
3	MP4A	Mx	0	1.23
4	MP4A	X	0	3.23
5	MP4A	Z	-68.192	3.23
6	MP4A	Mx	0	3.23
7	MP4B	X	0	1.23
8	MP4B	Z	-63.338	1.23
9	MP4B	Mx	.011	1.23
10	MP4B	X	0	3.23
11	MP4B	Z	-63.338	3.23
12	MP4B	Mx	.011	3.23
13	MP4C	X	0	1.23
14	MP4C	Z	-27.948	1.23
15	MP4C	Mx	-.014	1.23
16	MP4C	X	0	3.23
17	MP4C	Z	-27.948	3.23
18	MP4C	Mx	-.014	3.23
19	MP1A	X	0	.48
20	MP1A	Z	-165.402	.48
21	MP1A	Mx	-.152	.48
22	MP1A	X	0	3.98
23	MP1A	Z	-165.402	3.98
24	MP1A	Mx	-.152	3.98
25	MP1A	X	0	.48
26	MP1A	Z	-165.402	.48
27	MP1A	Mx	.152	.48
28	MP1A	X	0	3.98
29	MP1A	Z	-165.402	3.98
30	MP1A	Mx	.152	3.98
31	MP1B	X	0	.48
32	MP1B	Z	-126.87	.48
33	MP1B	Mx	.135	.48
34	MP1B	X	0	3.98
35	MP1B	Z	-126.87	3.98
36	MP1B	Mx	.135	3.98
37	MP1C	X	0	.48
38	MP1C	Z	-88.18	.48
39	MP1C	Mx	-.079	.48
40	MP1C	X	0	3.98
41	MP1C	Z	-88.18	3.98
42	MP1C	Mx	-.079	3.98
43	MP1B	X	0	.48
44	MP1B	Z	-126.87	.48
45	MP1B	Mx	-.044	.48
46	MP1B	X	0	3.98
47	MP1B	Z	-126.87	3.98
48	MP1B	Mx	-.044	3.98
49	MP1C	X	0	.48
50	MP1C	Z	-88.18	.48
51	MP1C	Mx	-.102	.48
52	MP1C	X	0	3.98



**Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
53	MP1C	Z	-88.18	3.98
54	MP1C	Mx	-.102	3.98
55	MP1A	X	0	2.23
56	MP1A	Z	-10.737	2.23
57	MP1A	Mx	0	2.23
58	MP1B	X	0	2.23
59	MP1B	Z	-10.737	2.23
60	MP1B	Mx	0	2.23
61	MP1C	X	0	2.23
62	MP1C	Z	-10.737	2.23
63	MP1C	Mx	0	2.23
64	MP2A	X	0	2.23
65	MP2A	Z	-54.263	2.23
66	MP2A	Mx	0	2.23
67	MP2B	X	0	2.23
68	MP2B	Z	-52.159	2.23
69	MP2B	Mx	-.014	2.23
70	MP2C	X	0	2.23
71	MP2C	Z	-36.815	2.23
72	MP2C	Mx	.028	2.23
73	MP3A	X	0	2.23
74	MP3A	Z	-54.263	2.23
75	MP3A	Mx	0	2.23
76	MP3B	X	0	2.23
77	MP3B	Z	-51.353	2.23
78	MP3B	Mx	-.009	2.23
79	MP3C	X	0	2.23
80	MP3C	Z	-30.131	2.23
81	MP3C	Mx	.015	2.23

**Member Point Loads (BLC 4 : Antenna Wo (30 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	28.909	1.23
2	MP4A	Z	-50.072	1.23
3	MP4A	Mx	-.014	1.23
4	MP4A	X	28.909	3.23
5	MP4A	Z	-50.072	3.23
6	MP4A	Mx	-.014	3.23
7	MP4B	X	21.921	1.23
8	MP4B	Z	-37.968	1.23
9	MP4B	Mx	.017	1.23
10	MP4B	X	21.921	3.23
11	MP4B	Z	-37.968	3.23
12	MP4B	Mx	.017	3.23
13	MP4C	X	21.921	1.23
14	MP4C	Z	-37.968	1.23
15	MP4C	Mx	-.017	1.23
16	MP4C	X	21.921	3.23
17	MP4C	Z	-37.968	3.23
18	MP4C	Mx	-.017	3.23
19	MP1A	X	71.608	.48
20	MP1A	Z	-124.028	.48
21	MP1A	Mx	-.188	.48
22	MP1A	X	71.608	3.98
23	MP1A	Z	-124.028	3.98
24	MP1A	Mx	-.188	3.98



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**Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
25	MP1A	X	71.608	.48
26	MP1A	Z	-124.028	.48
27	MP1A	Mx	.039	.48
28	MP1A	X	71.608	3.98
29	MP1A	Z	-124.028	3.98
30	MP1A	Mx	.039	3.98
31	MP1B	X	52.778	.48
32	MP1B	Z	-91.414	.48
33	MP1B	Mx	.135	.48
34	MP1B	X	52.778	3.98
35	MP1B	Z	-91.414	3.98
36	MP1B	Mx	.135	3.98
37	MP1C	X	52.778	.48
38	MP1C	Z	-91.414	.48
39	MP1C	Mx	-.033	.48
40	MP1C	X	52.778	3.98
41	MP1C	Z	-91.414	3.98
42	MP1C	Mx	-.033	3.98
43	MP1B	X	52.778	.48
44	MP1B	Z	-91.414	.48
45	MP1B	Mx	.033	.48
46	MP1B	X	52.778	3.98
47	MP1B	Z	-91.414	3.98
48	MP1B	Mx	.033	3.98
49	MP1C	X	52.778	.48
50	MP1C	Z	-91.414	.48
51	MP1C	Mx	-.135	.48
52	MP1C	X	52.778	3.98
53	MP1C	Z	-91.414	3.98
54	MP1C	Mx	-.135	3.98
55	MP1A	X	4.955	2.23
56	MP1A	Z	-8.582	2.23
57	MP1A	Mx	.004	2.23
58	MP1B	X	4.955	2.23
59	MP1B	Z	-8.582	2.23
60	MP1B	Mx	.004	2.23
61	MP1C	X	4.955	2.23
62	MP1C	Z	-8.582	2.23
63	MP1C	Mx	.004	2.23
64	MP2A	X	24.883	2.23
65	MP2A	Z	-43.098	2.23
66	MP2A	Mx	.019	2.23
67	MP2B	X	21.853	2.23
68	MP2B	Z	-37.85	2.23
69	MP2B	Mx	-.026	2.23
70	MP2C	X	21.853	2.23
71	MP2C	Z	-37.85	2.23
72	MP2C	Mx	.026	2.23
73	MP3A	X	24.021	2.23
74	MP3A	Z	-41.606	2.23
75	MP3A	Mx	.012	2.23
76	MP3B	X	19.831	2.23
77	MP3B	Z	-34.348	2.23
78	MP3B	Mx	-.015	2.23
79	MP3C	X	19.831	2.23
80	MP3C	Z	-34.348	2.23
81	MP3C	Mx	.015	2.23





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1B	X	7.15	2.23
59	MP1B	Z	-4.128	2.23
60	MP1B	Mx	.005	2.23
61	MP1C	X	7.15	2.23
62	MP1C	Z	-4.128	2.23
63	MP1C	Mx	.005	2.23
64	MP2A	X	35.308	2.23
65	MP2A	Z	-20.385	2.23
66	MP2A	Mx	.027	2.23
67	MP2B	X	31.883	2.23
68	MP2B	Z	-18.407	2.23
69	MP2B	Mx	-.028	2.23
70	MP2C	X	45.171	2.23
71	MP2C	Z	-26.079	2.23
72	MP2C	Mx	.014	2.23
73	MP3A	X	30.832	2.23
74	MP3A	Z	-17.801	2.23
75	MP3A	Mx	.015	2.23
76	MP3B	X	26.094	2.23
77	MP3B	Z	-15.065	2.23
78	MP3B	Mx	-.015	2.23
79	MP3C	X	44.473	2.23
80	MP3C	Z	-25.676	2.23
81	MP3C	Mx	.009	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	26.697	1.23
2	MP4A	Z	0	1.23
3	MP4A	Mx	-.013	1.23
4	MP4A	X	26.697	3.23
5	MP4A	Z	0	3.23
6	MP4A	Mx	-.013	3.23
7	MP4B	X	31.551	1.23
8	MP4B	Z	0	1.23
9	MP4B	Mx	.015	1.23
10	MP4B	X	31.551	3.23
11	MP4B	Z	0	3.23
12	MP4B	Mx	.015	3.23
13	MP4C	X	66.941	1.23
14	MP4C	Z	0	1.23
15	MP4C	Mx	.006	1.23
16	MP4C	X	66.941	3.23
17	MP4C	Z	0	3.23
18	MP4C	Mx	.006	3.23
19	MP1A	X	76.656	.48
20	MP1A	Z	0	.48
21	MP1A	Mx	-.08	.48
22	MP1A	X	76.656	3.98
23	MP1A	Z	0	3.98
24	MP1A	Mx	-.08	3.98
25	MP1A	X	76.656	.48
26	MP1A	Z	0	.48
27	MP1A	Mx	-.08	.48
28	MP1A	X	76.656	3.98
29	MP1A	Z	0	3.98



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP1A	Mx	-.08	3.98
31	MP1B	X	92.118	.48
32	MP1B	Z	0	.48
33	MP1B	Mx	.067	.48
34	MP1B	X	92.118	3.98
35	MP1B	Z	0	3.98
36	MP1B	Mx	.067	3.98
37	MP1C	X	130.808	.48
38	MP1C	Z	0	.48
39	MP1C	Mx	.12	.48
40	MP1C	X	130.808	3.98
41	MP1C	Z	0	3.98
42	MP1C	Mx	.12	3.98
43	MP1B	X	92.118	.48
44	MP1B	Z	0	.48
45	MP1B	Mx	.114	.48
46	MP1B	X	92.118	3.98
47	MP1B	Z	0	3.98
48	MP1B	Mx	.114	3.98
49	MP1C	X	130.808	.48
50	MP1C	Z	0	.48
51	MP1C	Mx	-.073	.48
52	MP1C	X	130.808	3.98
53	MP1C	Z	0	3.98
54	MP1C	Mx	-.073	3.98
55	MP1A	X	7.429	2.23
56	MP1A	Z	0	2.23
57	MP1A	Mx	.005	2.23
58	MP1B	X	7.429	2.23
59	MP1B	Z	0	2.23
60	MP1B	Mx	.005	2.23
61	MP1C	X	7.429	2.23
62	MP1C	Z	0	2.23
63	MP1C	Mx	.005	2.23
64	MP2A	X	36.272	2.23
65	MP2A	Z	0	2.23
66	MP2A	Mx	.028	2.23
67	MP2B	X	38.377	2.23
68	MP2B	Z	0	2.23
69	MP2B	Mx	-.028	2.23
70	MP2C	X	53.721	2.23
71	MP2C	Z	0	2.23
72	MP2C	Mx	-.007	2.23
73	MP3A	X	29.381	2.23
74	MP3A	Z	0	2.23
75	MP3A	Mx	.015	2.23
76	MP3B	X	32.291	2.23
77	MP3B	Z	0	2.23
78	MP3B	Mx	-.015	2.23
79	MP3C	X	53.513	2.23
80	MP3C	Z	0	2.23
81	MP3C	Mx	-.005	2.23

**Member Point Loads (BLC 7 : Antenna Wo (120 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	32.104	1.23



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

**Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
2	MP4A	Z	18.535	1.23
3	MP4A	Mx	-.016	1.23
4	MP4A	X	32.104	3.23
5	MP4A	Z	18.535	3.23
6	MP4A	Mx	-.016	3.23
7	MP4B	X	44.208	1.23
8	MP4B	Z	25.524	1.23
9	MP4B	Mx	.016	1.23
10	MP4B	X	44.208	3.23
11	MP4B	Z	25.524	3.23
12	MP4B	Mx	.016	3.23
13	MP4C	X	44.208	1.23
14	MP4C	Z	25.524	1.23
15	MP4C	Mx	.016	1.23
16	MP4C	X	44.208	3.23
17	MP4C	Z	25.524	3.23
18	MP4C	Mx	.016	3.23
19	MP1A	X	85.6	.48
20	MP1A	Z	49.421	.48
21	MP1A	Mx	-.044	.48
22	MP1A	X	85.6	3.98
23	MP1A	Z	49.421	3.98
24	MP1A	Mx	-.044	3.98
25	MP1A	X	85.6	.48
26	MP1A	Z	49.421	.48
27	MP1A	Mx	-.134	.48
28	MP1A	X	85.6	3.98
29	MP1A	Z	49.421	3.98
30	MP1A	Mx	-.134	3.98
31	MP1B	X	98.236	.48
32	MP1B	Z	56.716	.48
33	MP1B	Mx	.011	.48
34	MP1B	X	98.236	3.98
35	MP1B	Z	56.716	3.98
36	MP1B	Mx	.011	3.98
37	MP1C	X	98.236	.48
38	MP1C	Z	56.716	.48
39	MP1C	Mx	.141	.48
40	MP1C	X	98.236	3.98
41	MP1C	Z	56.716	3.98
42	MP1C	Mx	.141	3.98
43	MP1B	X	98.236	.48
44	MP1B	Z	56.716	.48
45	MP1B	Mx	.141	.48
46	MP1B	X	98.236	3.98
47	MP1B	Z	56.716	3.98
48	MP1B	Mx	.141	3.98
49	MP1C	X	98.236	.48
50	MP1C	Z	56.716	.48
51	MP1C	Mx	.011	.48
52	MP1C	X	98.236	3.98
53	MP1C	Z	56.716	3.98
54	MP1C	Mx	.011	3.98
55	MP1A	X	7.15	2.23
56	MP1A	Z	4.128	2.23
57	MP1A	Mx	.005	2.23
58	MP1B	X	7.15	2.23





**Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
59	MP1B	Z	4.128	2.23
60	MP1B	Mx	.005	2.23
61	MP1C	X	7.15	2.23
62	MP1C	Z	4.128	2.23
63	MP1C	Mx	.005	2.23
64	MP2A	X	35.308	2.23
65	MP2A	Z	20.385	2.23
66	MP2A	Mx	.027	2.23
67	MP2B	X	40.556	2.23
68	MP2B	Z	23.415	2.23
69	MP2B	Mx	-.023	2.23
70	MP2C	X	40.556	2.23
71	MP2C	Z	23.415	2.23
72	MP2C	Mx	-.023	2.23
73	MP3A	X	30.832	2.23
74	MP3A	Z	17.801	2.23
75	MP3A	Mx	.015	2.23
76	MP3B	X	38.09	2.23
77	MP3B	Z	21.991	2.23
78	MP3B	Mx	-.014	2.23
79	MP3C	X	38.09	2.23
80	MP3C	Z	21.991	2.23
81	MP3C	Mx	-.014	2.23

**Member Point Loads (BLC 8 : Antenna Wo (150 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	28.909	1.23
2	MP4A	Z	50.072	1.23
3	MP4A	Mx	-.014	1.23
4	MP4A	X	28.909	3.23
5	MP4A	Z	50.072	3.23
6	MP4A	Mx	-.014	3.23
7	MP4B	X	33.47	1.23
8	MP4B	Z	57.972	1.23
9	MP4B	Mx	.006	1.23
10	MP4B	X	33.47	3.23
11	MP4B	Z	57.972	3.23
12	MP4B	Mx	.006	3.23
13	MP4C	X	15.776	1.23
14	MP4C	Z	27.324	1.23
15	MP4C	Mx	.015	1.23
16	MP4C	X	15.776	3.23
17	MP4C	Z	27.324	3.23
18	MP4C	Mx	.015	3.23
19	MP1A	X	71.608	.48
20	MP1A	Z	124.028	.48
21	MP1A	Mx	.039	.48
22	MP1A	X	71.608	3.98
23	MP1A	Z	124.028	3.98
24	MP1A	Mx	.039	3.98
25	MP1A	X	71.608	.48
26	MP1A	Z	124.028	.48
27	MP1A	Mx	-.188	.48
28	MP1A	X	71.608	3.98
29	MP1A	Z	124.028	3.98
30	MP1A	Mx	-.188	3.98



**Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
31	MP1B	X	65.404	.48
32	MP1B	Z	113.283	.48
33	MP1B	Mx	-.073	.48
34	MP1B	X	65.404	3.98
35	MP1B	Z	113.283	3.98
36	MP1B	Mx	-.073	3.98
37	MP1C	X	46.059	.48
38	MP1C	Z	79.777	.48
39	MP1C	Mx	.114	.48
40	MP1C	X	46.059	3.98
41	MP1C	Z	79.777	3.98
42	MP1C	Mx	.114	3.98
43	MP1B	X	65.404	.48
44	MP1B	Z	113.283	.48
45	MP1B	Mx	.12	.48
46	MP1B	X	65.404	3.98
47	MP1B	Z	113.283	3.98
48	MP1B	Mx	.12	3.98
49	MP1C	X	46.059	.48
50	MP1C	Z	79.777	.48
51	MP1C	Mx	.067	.48
52	MP1C	X	46.059	3.98
53	MP1C	Z	79.777	3.98
54	MP1C	Mx	.067	3.98
55	MP1A	X	4.955	2.23
56	MP1A	Z	8.582	2.23
57	MP1A	Mx	.004	2.23
58	MP1B	X	4.955	2.23
59	MP1B	Z	8.582	2.23
60	MP1B	Mx	.004	2.23
61	MP1C	X	4.955	2.23
62	MP1C	Z	8.582	2.23
63	MP1C	Mx	.004	2.23
64	MP2A	X	24.883	2.23
65	MP2A	Z	43.098	2.23
66	MP2A	Mx	.019	2.23
67	MP2B	X	26.86	2.23
68	MP2B	Z	46.524	2.23
69	MP2B	Mx	-.007	2.23
70	MP2C	X	19.188	2.23
71	MP2C	Z	33.235	2.23
72	MP2C	Mx	-.028	2.23
73	MP3A	X	24.021	2.23
74	MP3A	Z	41.606	2.23
75	MP3A	Mx	.012	2.23
76	MP3B	X	26.757	2.23
77	MP3B	Z	46.344	2.23
78	MP3B	Mx	-.005	2.23
79	MP3C	X	16.146	2.23
80	MP3C	Z	27.965	2.23
81	MP3C	Mx	-.015	2.23

**Member Point Loads (BLC 9 : Antenna Wo (180 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	1.23
2	MP4A	Z	68.192	1.23





**Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP1B	Mx	0	2.23
61	MP1C	X	0	2.23
62	MP1C	Z	10.737	2.23
63	MP1C	Mx	0	2.23
64	MP2A	X	0	2.23
65	MP2A	Z	54.263	2.23
66	MP2A	Mx	0	2.23
67	MP2B	X	0	2.23
68	MP2B	Z	52.159	2.23
69	MP2B	Mx	.014	2.23
70	MP2C	X	0	2.23
71	MP2C	Z	36.815	2.23
72	MP2C	Mx	-.028	2.23
73	MP3A	X	0	2.23
74	MP3A	Z	54.263	2.23
75	MP3A	Mx	0	2.23
76	MP3B	X	0	2.23
77	MP3B	Z	51.353	2.23
78	MP3B	Mx	.009	2.23
79	MP3C	X	0	2.23
80	MP3C	Z	30.131	2.23
81	MP3C	Mx	-.015	2.23

**Member Point Loads (BLC 10 : Antenna Wo (210 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-28.909	1.23
2	MP4A	Z	50.072	1.23
3	MP4A	Mx	.014	1.23
4	MP4A	X	-28.909	3.23
5	MP4A	Z	50.072	3.23
6	MP4A	Mx	.014	3.23
7	MP4B	X	-21.921	1.23
8	MP4B	Z	37.968	1.23
9	MP4B	Mx	-.017	1.23
10	MP4B	X	-21.921	3.23
11	MP4B	Z	37.968	3.23
12	MP4B	Mx	-.017	3.23
13	MP4C	X	-21.921	1.23
14	MP4C	Z	37.968	1.23
15	MP4C	Mx	.017	1.23
16	MP4C	X	-21.921	3.23
17	MP4C	Z	37.968	3.23
18	MP4C	Mx	.017	3.23
19	MP1A	X	-71.608	.48
20	MP1A	Z	124.028	.48
21	MP1A	Mx	.188	.48
22	MP1A	X	-71.608	3.98
23	MP1A	Z	124.028	3.98
24	MP1A	Mx	.188	3.98
25	MP1A	X	-71.608	.48
26	MP1A	Z	124.028	.48
27	MP1A	Mx	-.039	.48
28	MP1A	X	-71.608	3.98
29	MP1A	Z	124.028	3.98
30	MP1A	Mx	-.039	3.98
31	MP1B	X	-52.778	.48









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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
33	MP1B	Mx	-.067	.48
34	MP1B	X	-92.118	3.98
35	MP1B	Z	0	3.98
36	MP1B	Mx	-.067	3.98
37	MP1C	X	-130.808	.48
38	MP1C	Z	0	.48
39	MP1C	Mx	-.12	.48
40	MP1C	X	-130.808	3.98
41	MP1C	Z	0	3.98
42	MP1C	Mx	-.12	3.98
43	MP1B	X	-92.118	.48
44	MP1B	Z	0	.48
45	MP1B	Mx	-.114	.48
46	MP1B	X	-92.118	3.98
47	MP1B	Z	0	3.98
48	MP1B	Mx	-.114	3.98
49	MP1C	X	-130.808	.48
50	MP1C	Z	0	.48
51	MP1C	Mx	.073	.48
52	MP1C	X	-130.808	3.98
53	MP1C	Z	0	3.98
54	MP1C	Mx	.073	3.98
55	MP1A	X	-7.429	2.23
56	MP1A	Z	0	2.23
57	MP1A	Mx	-.005	2.23
58	MP1B	X	-7.429	2.23
59	MP1B	Z	0	2.23
60	MP1B	Mx	-.005	2.23
61	MP1C	X	-7.429	2.23
62	MP1C	Z	0	2.23
63	MP1C	Mx	-.005	2.23
64	MP2A	X	-36.272	2.23
65	MP2A	Z	0	2.23
66	MP2A	Mx	-.028	2.23
67	MP2B	X	-38.377	2.23
68	MP2B	Z	0	2.23
69	MP2B	Mx	.028	2.23
70	MP2C	X	-53.721	2.23
71	MP2C	Z	0	2.23
72	MP2C	Mx	.007	2.23
73	MP3A	X	-29.381	2.23
74	MP3A	Z	0	2.23
75	MP3A	Mx	-.015	2.23
76	MP3B	X	-32.291	2.23
77	MP3B	Z	0	2.23
78	MP3B	Mx	.015	2.23
79	MP3C	X	-53.513	2.23
80	MP3C	Z	0	2.23
81	MP3C	Mx	.005	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP4A	X	-32.104	1.23
2	MP4A	Z	-18.535	1.23
3	MP4A	Mx	.016	1.23
4	MP4A	X	-32.104	3.23





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
5	MP4A	Z	-18.535	3.23
6	MP4A	Mx	.016	3.23
7	MP4B	X	-44.208	1.23
8	MP4B	Z	-25.524	1.23
9	MP4B	Mx	-.016	1.23
10	MP4B	X	-44.208	3.23
11	MP4B	Z	-25.524	3.23
12	MP4B	Mx	-.016	3.23
13	MP4C	X	-44.208	1.23
14	MP4C	Z	-25.524	1.23
15	MP4C	Mx	-.016	1.23
16	MP4C	X	-44.208	3.23
17	MP4C	Z	-25.524	3.23
18	MP4C	Mx	-.016	3.23
19	MP1A	X	-85.6	.48
20	MP1A	Z	-49.421	.48
21	MP1A	Mx	.044	.48
22	MP1A	X	-85.6	3.98
23	MP1A	Z	-49.421	3.98
24	MP1A	Mx	.044	3.98
25	MP1A	X	-85.6	.48
26	MP1A	Z	-49.421	.48
27	MP1A	Mx	.134	.48
28	MP1A	X	-85.6	3.98
29	MP1A	Z	-49.421	3.98
30	MP1A	Mx	.134	3.98
31	MP1B	X	-98.236	.48
32	MP1B	Z	-56.716	.48
33	MP1B	Mx	-.011	.48
34	MP1B	X	-98.236	3.98
35	MP1B	Z	-56.716	3.98
36	MP1B	Mx	-.011	3.98
37	MP1C	X	-98.236	.48
38	MP1C	Z	-56.716	.48
39	MP1C	Mx	-.141	.48
40	MP1C	X	-98.236	3.98
41	MP1C	Z	-56.716	3.98
42	MP1C	Mx	-.141	3.98
43	MP1B	X	-98.236	.48
44	MP1B	Z	-56.716	.48
45	MP1B	Mx	-.141	.48
46	MP1B	X	-98.236	3.98
47	MP1B	Z	-56.716	3.98
48	MP1B	Mx	-.141	3.98
49	MP1C	X	-98.236	.48
50	MP1C	Z	-56.716	.48
51	MP1C	Mx	-.011	.48
52	MP1C	X	-98.236	3.98
53	MP1C	Z	-56.716	3.98
54	MP1C	Mx	-.011	3.98
55	MP1A	X	-7.15	2.23
56	MP1A	Z	-4.128	2.23
57	MP1A	Mx	-.005	2.23
58	MP1B	X	-7.15	2.23
59	MP1B	Z	-4.128	2.23
60	MP1B	Mx	-.005	2.23
61	MP1C	X	-7.15	2.23



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
62	MP1C	Z	-4.128	2.23
63	MP1C	Mx	-.005	2.23
64	MP2A	X	-35.308	2.23
65	MP2A	Z	-20.385	2.23
66	MP2A	Mx	-.027	2.23
67	MP2B	X	-40.556	2.23
68	MP2B	Z	-23.415	2.23
69	MP2B	Mx	.023	2.23
70	MP2C	X	-40.556	2.23
71	MP2C	Z	-23.415	2.23
72	MP2C	Mx	.023	2.23
73	MP3A	X	-30.832	2.23
74	MP3A	Z	-17.801	2.23
75	MP3A	Mx	-.015	2.23
76	MP3B	X	-38.09	2.23
77	MP3B	Z	-21.991	2.23
78	MP3B	Mx	.014	2.23
79	MP3C	X	-38.09	2.23
80	MP3C	Z	-21.991	2.23
81	MP3C	Mx	.014	2.23

**Member Point Loads (BLC 14 : Antenna Wo (330 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-28.909	1.23
2	MP4A	Z	-50.072	1.23
3	MP4A	Mx	.014	1.23
4	MP4A	X	-28.909	3.23
5	MP4A	Z	-50.072	3.23
6	MP4A	Mx	.014	3.23
7	MP4B	X	-33.47	1.23
8	MP4B	Z	-57.972	1.23
9	MP4B	Mx	-.006	1.23
10	MP4B	X	-33.47	3.23
11	MP4B	Z	-57.972	3.23
12	MP4B	Mx	-.006	3.23
13	MP4C	X	-15.776	1.23
14	MP4C	Z	-27.324	1.23
15	MP4C	Mx	-.015	1.23
16	MP4C	X	-15.776	3.23
17	MP4C	Z	-27.324	3.23
18	MP4C	Mx	-.015	3.23
19	MP1A	X	-71.608	.48
20	MP1A	Z	-124.028	.48
21	MP1A	Mx	-.039	.48
22	MP1A	X	-71.608	3.98
23	MP1A	Z	-124.028	3.98
24	MP1A	Mx	-.039	3.98
25	MP1A	X	-71.608	.48
26	MP1A	Z	-124.028	.48
27	MP1A	Mx	.188	.48
28	MP1A	X	-71.608	3.98
29	MP1A	Z	-124.028	3.98
30	MP1A	Mx	.188	3.98
31	MP1B	X	-65.404	.48
32	MP1B	Z	-113.283	.48
33	MP1B	Mx	.073	.48



**Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
34	MP1B	X	-65.404	3.98
35	MP1B	Z	-113.283	3.98
36	MP1B	Mx	.073	3.98
37	MP1C	X	-46.059	.48
38	MP1C	Z	-79.777	.48
39	MP1C	Mx	-.114	.48
40	MP1C	X	-46.059	3.98
41	MP1C	Z	-79.777	3.98
42	MP1C	Mx	-.114	3.98
43	MP1B	X	-65.404	.48
44	MP1B	Z	-113.283	.48
45	MP1B	Mx	-.12	.48
46	MP1B	X	-65.404	3.98
47	MP1B	Z	-113.283	3.98
48	MP1B	Mx	-.12	3.98
49	MP1C	X	-46.059	.48
50	MP1C	Z	-79.777	.48
51	MP1C	Mx	-.067	.48
52	MP1C	X	-46.059	3.98
53	MP1C	Z	-79.777	3.98
54	MP1C	Mx	-.067	3.98
55	MP1A	X	-4.955	2.23
56	MP1A	Z	-8.582	2.23
57	MP1A	Mx	-.004	2.23
58	MP1B	X	-4.955	2.23
59	MP1B	Z	-8.582	2.23
60	MP1B	Mx	-.004	2.23
61	MP1C	X	-4.955	2.23
62	MP1C	Z	-8.582	2.23
63	MP1C	Mx	-.004	2.23
64	MP2A	X	-24.883	2.23
65	MP2A	Z	-43.098	2.23
66	MP2A	Mx	-.019	2.23
67	MP2B	X	-26.86	2.23
68	MP2B	Z	-46.524	2.23
69	MP2B	Mx	.007	2.23
70	MP2C	X	-19.188	2.23
71	MP2C	Z	-33.235	2.23
72	MP2C	Mx	.028	2.23
73	MP3A	X	-24.021	2.23
74	MP3A	Z	-41.606	2.23
75	MP3A	Mx	-.012	2.23
76	MP3B	X	-26.757	2.23
77	MP3B	Z	-46.344	2.23
78	MP3B	Mx	.005	2.23
79	MP3C	X	-16.146	2.23
80	MP3C	Z	-27.965	2.23
81	MP3C	Mx	.015	2.23

**Member Point Loads (BLC 15 : Antenna Wi (0 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	1.23
2	MP4A	Z	-14.022	1.23
3	MP4A	Mx	0	1.23
4	MP4A	X	0	3.23
5	MP4A	Z	-14.022	3.23



**Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
6	MP4A	Mx	0	3.23
7	MP4B	X	0	1.23
8	MP4B	Z	-13.079	1.23
9	MP4B	Mx	.002	1.23
10	MP4B	X	0	3.23
11	MP4B	Z	-13.079	3.23
12	MP4B	Mx	.002	3.23
13	MP4C	X	0	1.23
14	MP4C	Z	-6.202	1.23
15	MP4C	Mx	-.003	1.23
16	MP4C	X	0	3.23
17	MP4C	Z	-6.202	3.23
18	MP4C	Mx	-.003	3.23
19	MP1A	X	0	.48
20	MP1A	Z	-32.618	.48
21	MP1A	Mx	-.03	.48
22	MP1A	X	0	3.98
23	MP1A	Z	-32.618	3.98
24	MP1A	Mx	-.03	3.98
25	MP1A	X	0	.48
26	MP1A	Z	-32.618	.48
27	MP1A	Mx	.03	.48
28	MP1A	X	0	3.98
29	MP1A	Z	-32.618	3.98
30	MP1A	Mx	.03	3.98
31	MP1B	X	0	.48
32	MP1B	Z	-25.401	.48
33	MP1B	Mx	.027	.48
34	MP1B	X	0	3.98
35	MP1B	Z	-25.401	3.98
36	MP1B	Mx	.027	3.98
37	MP1C	X	0	.48
38	MP1C	Z	-18.233	.48
39	MP1C	Mx	-.016	.48
40	MP1C	X	0	3.98
41	MP1C	Z	-18.233	3.98
42	MP1C	Mx	-.016	3.98
43	MP1B	X	0	.48
44	MP1B	Z	-25.401	.48
45	MP1B	Mx	-.009	.48
46	MP1B	X	0	3.98
47	MP1B	Z	-25.401	3.98
48	MP1B	Mx	-.009	3.98
49	MP1C	X	0	.48
50	MP1C	Z	-18.233	.48
51	MP1C	Mx	-.021	.48
52	MP1C	X	0	3.98
53	MP1C	Z	-18.233	3.98
54	MP1C	Mx	-.021	3.98
55	MP1A	X	0	2.23
56	MP1A	Z	-2.848	2.23
57	MP1A	Mx	0	2.23
58	MP1B	X	0	2.23
59	MP1B	Z	-2.848	2.23
60	MP1B	Mx	0	2.23
61	MP1C	X	0	2.23
62	MP1C	Z	-2.848	2.23







**Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
7	MP4B	X	5.371	1.23
8	MP4B	Z	-3.101	1.23
9	MP4B	Mx	.003	1.23
10	MP4B	X	5.371	3.23
11	MP4B	Z	-3.101	3.23
12	MP4B	Mx	.003	3.23
13	MP4C	X	11.327	1.23
14	MP4C	Z	-6.539	1.23
15	MP4C	Mx	-.002	1.23
16	MP4C	X	11.327	3.23
17	MP4C	Z	-6.539	3.23
18	MP4C	Mx	-.002	3.23
19	MP1A	X	17.495	.48
20	MP1A	Z	-10.101	.48
21	MP1A	Mx	-.027	.48
22	MP1A	X	17.495	3.98
23	MP1A	Z	-10.101	3.98
24	MP1A	Mx	-.027	3.98
25	MP1A	X	17.495	.48
26	MP1A	Z	-10.101	.48
27	MP1A	Mx	-.009	.48
28	MP1A	X	17.495	3.98
29	MP1A	Z	-10.101	3.98
30	MP1A	Mx	-.009	3.98
31	MP1B	X	15.79	.48
32	MP1B	Z	-9.116	.48
33	MP1B	Mx	.021	.48
34	MP1B	X	15.79	3.98
35	MP1B	Z	-9.116	3.98
36	MP1B	Mx	.021	3.98
37	MP1C	X	21.998	.48
38	MP1C	Z	-12.701	.48
39	MP1C	Mx	.009	.48
40	MP1C	X	21.998	3.98
41	MP1C	Z	-12.701	3.98
42	MP1C	Mx	.009	3.98
43	MP1B	X	15.79	.48
44	MP1B	Z	-9.116	.48
45	MP1B	Mx	.016	.48
46	MP1B	X	15.79	3.98
47	MP1B	Z	-9.116	3.98
48	MP1B	Mx	.016	3.98
49	MP1C	X	21.998	.48
50	MP1C	Z	-12.701	.48
51	MP1C	Mx	-.027	.48
52	MP1C	X	21.998	3.98
53	MP1C	Z	-12.701	3.98
54	MP1C	Mx	-.027	3.98
55	MP1A	X	2.002	2.23
56	MP1A	Z	-1.156	2.23
57	MP1A	Mx	.001	2.23
58	MP1B	X	2.002	2.23
59	MP1B	Z	-1.156	2.23
60	MP1B	Mx	.001	2.23
61	MP1C	X	2.002	2.23
62	MP1C	Z	-1.156	2.23
63	MP1C	Mx	.001	2.23



**Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
64	MP2A	X	7.88	2.23
65	MP2A	Z	-4.549	2.23
66	MP2A	Mx	.006	2.23
67	MP2B	X	7.194	2.23
68	MP2B	Z	-4.154	2.23
69	MP2B	Mx	-.006	2.23
70	MP2C	X	9.854	2.23
71	MP2C	Z	-5.689	2.23
72	MP2C	Mx	.003	2.23
73	MP3A	X	6.991	2.23
74	MP3A	Z	-4.036	2.23
75	MP3A	Mx	.003	2.23
76	MP3B	X	6.045	2.23
77	MP3B	Z	-3.49	2.23
78	MP3B	Mx	-.003	2.23
79	MP3C	X	9.715	2.23
80	MP3C	Z	-5.609	2.23
81	MP3C	Mx	.002	2.23

**Member Point Loads (BLC 18 : Antenna Wi (90 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	5.959	1.23
2	MP4A	Z	0	1.23
3	MP4A	Mx	-.003	1.23
4	MP4A	X	5.959	3.23
5	MP4A	Z	0	3.23
6	MP4A	Mx	-.003	3.23
7	MP4B	X	6.902	1.23
8	MP4B	Z	0	1.23
9	MP4B	Mx	.003	1.23
10	MP4B	X	6.902	3.23
11	MP4B	Z	0	3.23
12	MP4B	Mx	.003	3.23
13	MP4C	X	13.779	1.23
14	MP4C	Z	0	1.23
15	MP4C	Mx	.001	1.23
16	MP4C	X	13.779	3.23
17	MP4C	Z	0	3.23
18	MP4C	Mx	.001	3.23
19	MP1A	X	16.062	.48
20	MP1A	Z	0	.48
21	MP1A	Mx	-.017	.48
22	MP1A	X	16.062	3.98
23	MP1A	Z	0	3.98
24	MP1A	Mx	-.017	3.98
25	MP1A	X	16.062	.48
26	MP1A	Z	0	.48
27	MP1A	Mx	-.017	.48
28	MP1A	X	16.062	3.98
29	MP1A	Z	0	3.98
30	MP1A	Mx	-.017	3.98
31	MP1B	X	18.963	.48
32	MP1B	Z	0	.48
33	MP1B	Mx	.014	.48
34	MP1B	X	18.963	3.98
35	MP1B	Z	0	3.98





**Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
36	MP1B	Mx	.014	3.98
37	MP1C	X	26.131	.48
38	MP1C	Z	0	.48
39	MP1C	Mx	.024	.48
40	MP1C	X	26.131	3.98
41	MP1C	Z	0	3.98
42	MP1C	Mx	.024	3.98
43	MP1B	X	18.963	.48
44	MP1B	Z	0	.48
45	MP1B	Mx	.023	.48
46	MP1B	X	18.963	3.98
47	MP1B	Z	0	3.98
48	MP1B	Mx	.023	3.98
49	MP1C	X	26.131	.48
50	MP1C	Z	0	.48
51	MP1C	Mx	-.015	.48
52	MP1C	X	26.131	3.98
53	MP1C	Z	0	3.98
54	MP1C	Mx	-.015	3.98
55	MP1A	X	2.133	2.23
56	MP1A	Z	0	2.23
57	MP1A	Mx	.002	2.23
58	MP1B	X	2.133	2.23
59	MP1B	Z	0	2.23
60	MP1B	Mx	.002	2.23
61	MP1C	X	2.133	2.23
62	MP1C	Z	0	2.23
63	MP1C	Mx	.002	2.23
64	MP2A	X	8.198	2.23
65	MP2A	Z	0	2.23
66	MP2A	Mx	.006	2.23
67	MP2B	X	8.62	2.23
68	MP2B	Z	0	2.23
69	MP2B	Mx	-.006	2.23
70	MP2C	X	11.691	2.23
71	MP2C	Z	0	2.23
72	MP2C	Mx	-.002	2.23
73	MP3A	X	6.83	2.23
74	MP3A	Z	0	2.23
75	MP3A	Mx	.003	2.23
76	MP3B	X	7.411	2.23
77	MP3B	Z	0	2.23
78	MP3B	Mx	-.003	2.23
79	MP3C	X	11.65	2.23
80	MP3C	Z	0	2.23
81	MP3C	Mx	-.001	2.23

**Member Point Loads (BLC 19 : Antenna Wi (120 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	6.906	1.23
2	MP4A	Z	3.987	1.23
3	MP4A	Mx	-.003	1.23
4	MP4A	X	6.906	3.23
5	MP4A	Z	3.987	3.23
6	MP4A	Mx	-.003	3.23
7	MP4B	X	9.258	1.23



**Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
8	MP4B	Z	5.345	1.23
9	MP4B	Mx	.003	1.23
10	MP4B	X	9.258	3.23
11	MP4B	Z	5.345	3.23
12	MP4B	Mx	.003	3.23
13	MP4C	X	9.258	1.23
14	MP4C	Z	5.345	1.23
15	MP4C	Mx	.003	1.23
16	MP4C	X	9.258	3.23
17	MP4C	Z	5.345	3.23
18	MP4C	Mx	.003	3.23
19	MP1A	X	17.495	.48
20	MP1A	Z	10.101	.48
21	MP1A	Mx	-.009	.48
22	MP1A	X	17.495	3.98
23	MP1A	Z	10.101	3.98
24	MP1A	Mx	-.009	3.98
25	MP1A	X	17.495	.48
26	MP1A	Z	10.101	.48
27	MP1A	Mx	-.027	.48
28	MP1A	X	17.495	3.98
29	MP1A	Z	10.101	3.98
30	MP1A	Mx	-.027	3.98
31	MP1B	X	19.842	.48
32	MP1B	Z	11.456	.48
33	MP1B	Mx	.002	.48
34	MP1B	X	19.842	3.98
35	MP1B	Z	11.456	3.98
36	MP1B	Mx	.002	3.98
37	MP1C	X	19.842	.48
38	MP1C	Z	11.456	.48
39	MP1C	Mx	.029	.48
40	MP1C	X	19.842	3.98
41	MP1C	Z	11.456	3.98
42	MP1C	Mx	.029	3.98
43	MP1B	X	19.842	.48
44	MP1B	Z	11.456	.48
45	MP1B	Mx	.029	.48
46	MP1B	X	19.842	3.98
47	MP1B	Z	11.456	3.98
48	MP1B	Mx	.029	3.98
49	MP1C	X	19.842	.48
50	MP1C	Z	11.456	.48
51	MP1C	Mx	.002	.48
52	MP1C	X	19.842	3.98
53	MP1C	Z	11.456	3.98
54	MP1C	Mx	.002	3.98
55	MP1A	X	2.002	2.23
56	MP1A	Z	1.156	2.23
57	MP1A	Mx	.001	2.23
58	MP1B	X	2.002	2.23
59	MP1B	Z	1.156	2.23
60	MP1B	Mx	.001	2.23
61	MP1C	X	2.002	2.23
62	MP1C	Z	1.156	2.23
63	MP1C	Mx	.001	2.23
64	MP2A	X	7.88	2.23



**Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
65	MP2A	Z	4.549	2.23
66	MP2A	Mx	.006	2.23
67	MP2B	X	8.93	2.23
68	MP2B	Z	5.156	2.23
69	MP2B	Mx	-.005	2.23
70	MP2C	X	8.93	2.23
71	MP2C	Z	5.156	2.23
72	MP2C	Mx	-.005	2.23
73	MP3A	X	6.991	2.23
74	MP3A	Z	4.036	2.23
75	MP3A	Mx	.003	2.23
76	MP3B	X	8.441	2.23
77	MP3B	Z	4.873	2.23
78	MP3B	Mx	-.003	2.23
79	MP3C	X	8.441	2.23
80	MP3C	Z	4.873	2.23
81	MP3C	Mx	-.003	2.23

**Member Point Loads (BLC 20 : Antenna Wi (150 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	6.003	1.23
2	MP4A	Z	10.398	1.23
3	MP4A	Mx	-.003	1.23
4	MP4A	X	6.003	3.23
5	MP4A	Z	10.398	3.23
6	MP4A	Mx	-.003	3.23
7	MP4B	X	6.89	1.23
8	MP4B	Z	11.933	1.23
9	MP4B	Mx	.001	1.23
10	MP4B	X	6.89	3.23
11	MP4B	Z	11.933	3.23
12	MP4B	Mx	.001	3.23
13	MP4C	X	3.451	1.23
14	MP4C	Z	5.977	1.23
15	MP4C	Mx	.003	1.23
16	MP4C	X	3.451	3.23
17	MP4C	Z	5.977	3.23
18	MP4C	Mx	.003	3.23
19	MP1A	X	14.24	.48
20	MP1A	Z	24.664	.48
21	MP1A	Mx	.008	.48
22	MP1A	X	14.24	3.98
23	MP1A	Z	24.664	3.98
24	MP1A	Mx	.008	3.98
25	MP1A	X	14.24	.48
26	MP1A	Z	24.664	.48
27	MP1A	Mx	-.037	.48
28	MP1A	X	14.24	3.98
29	MP1A	Z	24.664	3.98
30	MP1A	Mx	-.037	3.98
31	MP1B	X	13.065	.48
32	MP1B	Z	22.63	.48
33	MP1B	Mx	-.015	.48
34	MP1B	X	13.065	3.98
35	MP1B	Z	22.63	3.98
36	MP1B	Mx	-.015	3.98





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
9	MP4B	Mx	-.002	1.23
10	MP4B	X	0	3.23
11	MP4B	Z	13.079	3.23
12	MP4B	Mx	-.002	3.23
13	MP4C	X	0	1.23
14	MP4C	Z	6.202	1.23
15	MP4C	Mx	.003	1.23
16	MP4C	X	0	3.23
17	MP4C	Z	6.202	3.23
18	MP4C	Mx	.003	3.23
19	MP1A	X	0	.48
20	MP1A	Z	32.618	.48
21	MP1A	Mx	.03	.48
22	MP1A	X	0	3.98
23	MP1A	Z	32.618	3.98
24	MP1A	Mx	.03	3.98
25	MP1A	X	0	.48
26	MP1A	Z	32.618	.48
27	MP1A	Mx	-.03	.48
28	MP1A	X	0	3.98
29	MP1A	Z	32.618	3.98
30	MP1A	Mx	-.03	3.98
31	MP1B	X	0	.48
32	MP1B	Z	25.401	.48
33	MP1B	Mx	-.027	.48
34	MP1B	X	0	3.98
35	MP1B	Z	25.401	3.98
36	MP1B	Mx	-.027	3.98
37	MP1C	X	0	.48
38	MP1C	Z	18.233	.48
39	MP1C	Mx	.016	.48
40	MP1C	X	0	3.98
41	MP1C	Z	18.233	3.98
42	MP1C	Mx	.016	3.98
43	MP1B	X	0	.48
44	MP1B	Z	25.401	.48
45	MP1B	Mx	.009	.48
46	MP1B	X	0	3.98
47	MP1B	Z	25.401	3.98
48	MP1B	Mx	.009	3.98
49	MP1C	X	0	.48
50	MP1C	Z	18.233	.48
51	MP1C	Mx	.021	.48
52	MP1C	X	0	3.98
53	MP1C	Z	18.233	3.98
54	MP1C	Mx	.021	3.98
55	MP1A	X	0	2.23
56	MP1A	Z	2.848	2.23
57	MP1A	Mx	0	2.23
58	MP1B	X	0	2.23
59	MP1B	Z	2.848	2.23
60	MP1B	Mx	0	2.23
61	MP1C	X	0	2.23
62	MP1C	Z	2.848	2.23
63	MP1C	Mx	0	2.23
64	MP2A	X	0	2.23
65	MP2A	Z	11.8	2.23



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
66	MP2A	Mx	0	2.23
67	MP2B	X	0	2.23
68	MP2B	Z	11.378	2.23
69	MP2B	Mx	.003	2.23
70	MP2C	X	0	2.23
71	MP2C	Z	8.307	2.23
72	MP2C	Mx	-.006	2.23
73	MP3A	X	0	2.23
74	MP3A	Z	11.8	2.23
75	MP3A	Mx	0	2.23
76	MP3B	X	0	2.23
77	MP3B	Z	11.218	2.23
78	MP3B	Mx	.002	2.23
79	MP3C	X	0	2.23
80	MP3C	Z	6.98	2.23
81	MP3C	Mx	-.003	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-6.003	1.23
2	MP4A	Z	10.398	1.23
3	MP4A	Mx	.003	1.23
4	MP4A	X	-6.003	3.23
5	MP4A	Z	10.398	3.23
6	MP4A	Mx	.003	3.23
7	MP4B	X	-4.645	1.23
8	MP4B	Z	8.046	1.23
9	MP4B	Mx	-.004	1.23
10	MP4B	X	-4.645	3.23
11	MP4B	Z	8.046	3.23
12	MP4B	Mx	-.004	3.23
13	MP4C	X	-4.645	1.23
14	MP4C	Z	8.046	1.23
15	MP4C	Mx	.004	1.23
16	MP4C	X	-4.645	3.23
17	MP4C	Z	8.046	3.23
18	MP4C	Mx	.004	3.23
19	MP1A	X	-14.24	.48
20	MP1A	Z	24.664	.48
21	MP1A	Mx	.037	.48
22	MP1A	X	-14.24	3.98
23	MP1A	Z	24.664	3.98
24	MP1A	Mx	.037	3.98
25	MP1A	X	-14.24	.48
26	MP1A	Z	24.664	.48
27	MP1A	Mx	-.008	.48
28	MP1A	X	-14.24	3.98
29	MP1A	Z	24.664	3.98
30	MP1A	Mx	-.008	3.98
31	MP1B	X	-10.726	.48
32	MP1B	Z	18.578	.48
33	MP1B	Mx	-.027	.48
34	MP1B	X	-10.726	3.98
35	MP1B	Z	18.578	3.98
36	MP1B	Mx	-.027	3.98
37	MP1C	X	-10.726	.48



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
38	MP1C	Z	18.578	.48
39	MP1C	Mx	.007	.48
40	MP1C	X	-10.726	3.98
41	MP1C	Z	18.578	3.98
42	MP1C	Mx	.007	3.98
43	MP1B	X	-10.726	.48
44	MP1B	Z	18.578	.48
45	MP1B	Mx	-.007	.48
46	MP1B	X	-10.726	3.98
47	MP1B	Z	18.578	3.98
48	MP1B	Mx	-.007	3.98
49	MP1C	X	-10.726	.48
50	MP1C	Z	18.578	.48
51	MP1C	Mx	.027	.48
52	MP1C	X	-10.726	3.98
53	MP1C	Z	18.578	3.98
54	MP1C	Mx	.027	3.98
55	MP1A	X	-1.335	2.23
56	MP1A	Z	2.312	2.23
57	MP1A	Mx	-.000973	2.23
58	MP1B	X	-1.335	2.23
59	MP1B	Z	2.312	2.23
60	MP1B	Mx	-.000973	2.23
61	MP1C	X	-1.335	2.23
62	MP1C	Z	2.312	2.23
63	MP1C	Mx	-.000973	2.23
64	MP2A	X	-5.45	2.23
65	MP2A	Z	9.439	2.23
66	MP2A	Mx	-.004	2.23
67	MP2B	X	-4.843	2.23
68	MP2B	Z	8.389	2.23
69	MP2B	Mx	.006	2.23
70	MP2C	X	-4.843	2.23
71	MP2C	Z	8.389	2.23
72	MP2C	Mx	-.006	2.23
73	MP3A	X	-5.279	2.23
74	MP3A	Z	9.143	2.23
75	MP3A	Mx	-.003	2.23
76	MP3B	X	-4.442	2.23
77	MP3B	Z	7.693	2.23
78	MP3B	Mx	.003	2.23
79	MP3C	X	-4.442	2.23
80	MP3C	Z	7.693	2.23
81	MP3C	Mx	-.003	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-6.906	1.23
2	MP4A	Z	3.987	1.23
3	MP4A	Mx	.003	1.23
4	MP4A	X	-6.906	3.23
5	MP4A	Z	3.987	3.23
6	MP4A	Mx	.003	3.23
7	MP4B	X	-5.371	1.23
8	MP4B	Z	3.101	1.23
9	MP4B	Mx	-.003	1.23



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
10	MP4B	X	-5.371	3.23
11	MP4B	Z	3.101	3.23
12	MP4B	Mx	-.003	3.23
13	MP4C	X	-11.327	1.23
14	MP4C	Z	6.539	1.23
15	MP4C	Mx	.002	1.23
16	MP4C	X	-11.327	3.23
17	MP4C	Z	6.539	3.23
18	MP4C	Mx	.002	3.23
19	MP1A	X	-17.495	.48
20	MP1A	Z	10.101	.48
21	MP1A	Mx	.027	.48
22	MP1A	X	-17.495	3.98
23	MP1A	Z	10.101	3.98
24	MP1A	Mx	.027	3.98
25	MP1A	X	-17.495	.48
26	MP1A	Z	10.101	.48
27	MP1A	Mx	.009	.48
28	MP1A	X	-17.495	3.98
29	MP1A	Z	10.101	3.98
30	MP1A	Mx	.009	3.98
31	MP1B	X	-15.79	.48
32	MP1B	Z	9.116	.48
33	MP1B	Mx	-.021	.48
34	MP1B	X	-15.79	3.98
35	MP1B	Z	9.116	3.98
36	MP1B	Mx	-.021	3.98
37	MP1C	X	-21.998	.48
38	MP1C	Z	12.701	.48
39	MP1C	Mx	-.009	.48
40	MP1C	X	-21.998	3.98
41	MP1C	Z	12.701	3.98
42	MP1C	Mx	-.009	3.98
43	MP1B	X	-15.79	.48
44	MP1B	Z	9.116	.48
45	MP1B	Mx	-.016	.48
46	MP1B	X	-15.79	3.98
47	MP1B	Z	9.116	3.98
48	MP1B	Mx	-.016	3.98
49	MP1C	X	-21.998	.48
50	MP1C	Z	12.701	.48
51	MP1C	Mx	.027	.48
52	MP1C	X	-21.998	3.98
53	MP1C	Z	12.701	3.98
54	MP1C	Mx	.027	3.98
55	MP1A	X	-2.002	2.23
56	MP1A	Z	1.156	2.23
57	MP1A	Mx	-.001	2.23
58	MP1B	X	-2.002	2.23
59	MP1B	Z	1.156	2.23
60	MP1B	Mx	-.001	2.23
61	MP1C	X	-2.002	2.23
62	MP1C	Z	1.156	2.23
63	MP1C	Mx	-.001	2.23
64	MP2A	X	-7.88	2.23
65	MP2A	Z	4.549	2.23
66	MP2A	Mx	-.006	2.23





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
67	MP2B	X	-7.194	2.23
68	MP2B	Z	4.154	2.23
69	MP2B	Mx	.006	2.23
70	MP2C	X	-9.854	2.23
71	MP2C	Z	5.689	2.23
72	MP2C	Mx	-.003	2.23
73	MP3A	X	-6.991	2.23
74	MP3A	Z	4.036	2.23
75	MP3A	Mx	-.003	2.23
76	MP3B	X	-6.045	2.23
77	MP3B	Z	3.49	2.23
78	MP3B	Mx	.003	2.23
79	MP3C	X	-9.715	2.23
80	MP3C	Z	5.609	2.23
81	MP3C	Mx	-.002	2.23

**Member Point Loads (BLC 24 : Antenna Wi (270 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-5.959	1.23
2	MP4A	Z	0	1.23
3	MP4A	Mx	.003	1.23
4	MP4A	X	-5.959	3.23
5	MP4A	Z	0	3.23
6	MP4A	Mx	.003	3.23
7	MP4B	X	-6.902	1.23
8	MP4B	Z	0	1.23
9	MP4B	Mx	-.003	1.23
10	MP4B	X	-6.902	3.23
11	MP4B	Z	0	3.23
12	MP4B	Mx	-.003	3.23
13	MP4C	X	-13.779	1.23
14	MP4C	Z	0	1.23
15	MP4C	Mx	-.001	1.23
16	MP4C	X	-13.779	3.23
17	MP4C	Z	0	3.23
18	MP4C	Mx	-.001	3.23
19	MP1A	X	-16.062	.48
20	MP1A	Z	0	.48
21	MP1A	Mx	.017	.48
22	MP1A	X	-16.062	3.98
23	MP1A	Z	0	3.98
24	MP1A	Mx	.017	3.98
25	MP1A	X	-16.062	.48
26	MP1A	Z	0	.48
27	MP1A	Mx	.017	.48
28	MP1A	X	-16.062	3.98
29	MP1A	Z	0	3.98
30	MP1A	Mx	.017	3.98
31	MP1B	X	-18.963	.48
32	MP1B	Z	0	.48
33	MP1B	Mx	-.014	.48
34	MP1B	X	-18.963	3.98
35	MP1B	Z	0	3.98
36	MP1B	Mx	-.014	3.98
37	MP1C	X	-26.131	.48
38	MP1C	Z	0	.48



**Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
39	MP1C	Mx	-.024	.48
40	MP1C	X	-26.131	3.98
41	MP1C	Z	0	3.98
42	MP1C	Mx	-.024	3.98
43	MP1B	X	-18.963	.48
44	MP1B	Z	0	.48
45	MP1B	Mx	-.023	.48
46	MP1B	X	-18.963	3.98
47	MP1B	Z	0	3.98
48	MP1B	Mx	-.023	3.98
49	MP1C	X	-26.131	.48
50	MP1C	Z	0	.48
51	MP1C	Mx	.015	.48
52	MP1C	X	-26.131	3.98
53	MP1C	Z	0	3.98
54	MP1C	Mx	.015	3.98
55	MP1A	X	-2.133	2.23
56	MP1A	Z	0	2.23
57	MP1A	Mx	-.002	2.23
58	MP1B	X	-2.133	2.23
59	MP1B	Z	0	2.23
60	MP1B	Mx	-.002	2.23
61	MP1C	X	-2.133	2.23
62	MP1C	Z	0	2.23
63	MP1C	Mx	-.002	2.23
64	MP2A	X	-8.198	2.23
65	MP2A	Z	0	2.23
66	MP2A	Mx	-.006	2.23
67	MP2B	X	-8.62	2.23
68	MP2B	Z	0	2.23
69	MP2B	Mx	.006	2.23
70	MP2C	X	-11.691	2.23
71	MP2C	Z	0	2.23
72	MP2C	Mx	.002	2.23
73	MP3A	X	-6.83	2.23
74	MP3A	Z	0	2.23
75	MP3A	Mx	-.003	2.23
76	MP3B	X	-7.411	2.23
77	MP3B	Z	0	2.23
78	MP3B	Mx	.003	2.23
79	MP3C	X	-11.65	2.23
80	MP3C	Z	0	2.23
81	MP3C	Mx	.001	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-6.906	1.23
2	MP4A	Z	-3.987	1.23
3	MP4A	Mx	.003	1.23
4	MP4A	X	-6.906	3.23
5	MP4A	Z	-3.987	3.23
6	MP4A	Mx	.003	3.23
7	MP4B	X	-9.258	1.23
8	MP4B	Z	-5.345	1.23
9	MP4B	Mx	-.003	1.23
10	MP4B	X	-9.258	3.23





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
68	MP2B	Z	-5.156	2.23
69	MP2B	Mx	.005	2.23
70	MP2C	X	-8.93	2.23
71	MP2C	Z	-5.156	2.23
72	MP2C	Mx	.005	2.23
73	MP3A	X	-6.991	2.23
74	MP3A	Z	-4.036	2.23
75	MP3A	Mx	-.003	2.23
76	MP3B	X	-8.441	2.23
77	MP3B	Z	-4.873	2.23
78	MP3B	Mx	.003	2.23
79	MP3C	X	-8.441	2.23
80	MP3C	Z	-4.873	2.23
81	MP3C	Mx	.003	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-6.003	1.23
2	MP4A	Z	-10.398	1.23
3	MP4A	Mx	.003	1.23
4	MP4A	X	-6.003	3.23
5	MP4A	Z	-10.398	3.23
6	MP4A	Mx	.003	3.23
7	MP4B	X	-6.89	1.23
8	MP4B	Z	-11.933	1.23
9	MP4B	Mx	-.001	1.23
10	MP4B	X	-6.89	3.23
11	MP4B	Z	-11.933	3.23
12	MP4B	Mx	-.001	3.23
13	MP4C	X	-3.451	1.23
14	MP4C	Z	-5.977	1.23
15	MP4C	Mx	-.003	1.23
16	MP4C	X	-3.451	3.23
17	MP4C	Z	-5.977	3.23
18	MP4C	Mx	-.003	3.23
19	MP1A	X	-14.24	.48
20	MP1A	Z	-24.664	.48
21	MP1A	Mx	-.008	.48
22	MP1A	X	-14.24	3.98
23	MP1A	Z	-24.664	3.98
24	MP1A	Mx	-.008	3.98
25	MP1A	X	-14.24	.48
26	MP1A	Z	-24.664	.48
27	MP1A	Mx	.037	.48
28	MP1A	X	-14.24	3.98
29	MP1A	Z	-24.664	3.98
30	MP1A	Mx	.037	3.98
31	MP1B	X	-13.065	.48
32	MP1B	Z	-22.63	.48
33	MP1B	Mx	.015	.48
34	MP1B	X	-13.065	3.98
35	MP1B	Z	-22.63	3.98
36	MP1B	Mx	.015	3.98
37	MP1C	X	-9.481	.48
38	MP1C	Z	-16.422	.48
39	MP1C	Mx	-.023	.48







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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
69	MP2B	Mx	-0.000904	2.23
70	MP2C	X	0	2.23
71	MP2C	Z	-2.42	2.23
72	MP2C	Mx	.002	2.23
73	MP3A	X	0	2.23
74	MP3A	Z	-3.568	2.23
75	MP3A	Mx	0	2.23
76	MP3B	X	0	2.23
77	MP3B	Z	-3.376	2.23
78	MP3B	Mx	-0.000577	2.23
79	MP3C	X	0	2.23
80	MP3C	Z	-1.981	2.23
81	MP3C	Mx	.000975	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	1.901	1.23
2	MP4A	Z	-3.292	1.23
3	MP4A	Mx	-0.000951	1.23
4	MP4A	X	1.901	3.23
5	MP4A	Z	-3.292	3.23
6	MP4A	Mx	-0.000951	3.23
7	MP4B	X	1.441	1.23
8	MP4B	Z	-2.496	1.23
9	MP4B	Mx	.001	1.23
10	MP4B	X	1.441	3.23
11	MP4B	Z	-2.496	3.23
12	MP4B	Mx	.001	3.23
13	MP4C	X	1.441	1.23
14	MP4C	Z	-2.496	1.23
15	MP4C	Mx	-.001	1.23
16	MP4C	X	1.441	3.23
17	MP4C	Z	-2.496	3.23
18	MP4C	Mx	-.001	3.23
19	MP1A	X	4.708	.48
20	MP1A	Z	-8.154	.48
21	MP1A	Mx	-.012	.48
22	MP1A	X	4.708	3.98
23	MP1A	Z	-8.154	3.98
24	MP1A	Mx	-.012	3.98
25	MP1A	X	4.708	.48
26	MP1A	Z	-8.154	.48
27	MP1A	Mx	.003	.48
28	MP1A	X	4.708	3.98
29	MP1A	Z	-8.154	3.98
30	MP1A	Mx	.003	3.98
31	MP1B	X	3.47	.48
32	MP1B	Z	-6.01	.48
33	MP1B	Mx	.009	.48
34	MP1B	X	3.47	3.98
35	MP1B	Z	-6.01	3.98
36	MP1B	Mx	.009	3.98
37	MP1C	X	3.47	.48
38	MP1C	Z	-6.01	.48
39	MP1C	Mx	-.002	.48
40	MP1C	X	3.47	3.98







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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
13	MP4C	X	3.606	1.23
14	MP4C	Z	-2.082	1.23
15	MP4C	Mx	-.000712	1.23
16	MP4C	X	3.606	3.23
17	MP4C	Z	-2.082	3.23
18	MP4C	Mx	-.000712	3.23
19	MP1A	X	5.628	.48
20	MP1A	Z	-3.249	.48
21	MP1A	Mx	-.009	.48
22	MP1A	X	5.628	3.98
23	MP1A	Z	-3.249	3.98
24	MP1A	Mx	-.009	3.98
25	MP1A	X	5.628	.48
26	MP1A	Z	-3.249	.48
27	MP1A	Mx	-.003	.48
28	MP1A	X	5.628	3.98
29	MP1A	Z	-3.249	3.98
30	MP1A	Mx	-.003	3.98
31	MP1B	X	5.021	.48
32	MP1B	Z	-2.899	.48
33	MP1B	Mx	.007	.48
34	MP1B	X	5.021	3.98
35	MP1B	Z	-2.899	3.98
36	MP1B	Mx	.007	3.98
37	MP1C	X	7.224	.48
38	MP1C	Z	-4.171	.48
39	MP1C	Mx	.003	.48
40	MP1C	X	7.224	3.98
41	MP1C	Z	-4.171	3.98
42	MP1C	Mx	.003	3.98
43	MP1B	X	5.021	.48
44	MP1B	Z	-2.899	.48
45	MP1B	Mx	.005	.48
46	MP1B	X	5.021	3.98
47	MP1B	Z	-2.899	3.98
48	MP1B	Mx	.005	3.98
49	MP1C	X	7.224	.48
50	MP1C	Z	-4.171	.48
51	MP1C	Mx	-.009	.48
52	MP1C	X	7.224	3.98
53	MP1C	Z	-4.171	3.98
54	MP1C	Mx	-.009	3.98
55	MP1A	X	.47	2.23
56	MP1A	Z	-.271	2.23
57	MP1A	Mx	.000343	2.23
58	MP1B	X	.47	2.23
59	MP1B	Z	-.271	2.23
60	MP1B	Mx	.000343	2.23
61	MP1C	X	.47	2.23
62	MP1C	Z	-.271	2.23
63	MP1C	Mx	.000343	2.23
64	MP2A	X	2.321	2.23
65	MP2A	Z	-1.34	2.23
66	MP2A	Mx	.002	2.23
67	MP2B	X	2.096	2.23
68	MP2B	Z	-1.21	2.23
69	MP2B	Mx	-.002	2.23



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
70	MP2C	X	2.97	2.23
71	MP2C	Z	-1.715	2.23
72	MP2C	Mx	.000904	2.23
73	MP3A	X	2.027	2.23
74	MP3A	Z	-1.17	2.23
75	MP3A	Mx	.001	2.23
76	MP3B	X	1.716	2.23
77	MP3B	Z	-.99	2.23
78	MP3B	Mx	-.000976	2.23
79	MP3C	X	2.924	2.23
80	MP3C	Z	-1.688	2.23
81	MP3C	Mx	.000577	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	1.755	1.23
2	MP4A	Z	0	1.23
3	MP4A	Mx	-.000877	1.23
4	MP4A	X	1.755	3.23
5	MP4A	Z	0	3.23
6	MP4A	Mx	-.000877	3.23
7	MP4B	X	2.074	1.23
8	MP4B	Z	0	1.23
9	MP4B	Mx	.000974	1.23
10	MP4B	X	2.074	3.23
11	MP4B	Z	0	3.23
12	MP4B	Mx	.000974	3.23
13	MP4C	X	4.401	1.23
14	MP4C	Z	0	1.23
15	MP4C	Mx	.000382	1.23
16	MP4C	X	4.401	3.23
17	MP4C	Z	0	3.23
18	MP4C	Mx	.000382	3.23
19	MP1A	X	5.04	.48
20	MP1A	Z	0	.48
21	MP1A	Mx	-.005	.48
22	MP1A	X	5.04	3.98
23	MP1A	Z	0	3.98
24	MP1A	Mx	-.005	3.98
25	MP1A	X	5.04	.48
26	MP1A	Z	0	.48
27	MP1A	Mx	-.005	.48
28	MP1A	X	5.04	3.98
29	MP1A	Z	0	3.98
30	MP1A	Mx	-.005	3.98
31	MP1B	X	6.056	.48
32	MP1B	Z	0	.48
33	MP1B	Mx	.004	.48
34	MP1B	X	6.056	3.98
35	MP1B	Z	0	3.98
36	MP1B	Mx	.004	3.98
37	MP1C	X	8.6	.48
38	MP1C	Z	0	.48
39	MP1C	Mx	.008	.48
40	MP1C	X	8.6	3.98
41	MP1C	Z	0	3.98



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
42	MP1C	Mx	.008	3.98
43	MP1B	X	6.056	.48
44	MP1B	Z	0	.48
45	MP1B	Mx	.007	.48
46	MP1B	X	6.056	3.98
47	MP1B	Z	0	3.98
48	MP1B	Mx	.007	3.98
49	MP1C	X	8.6	.48
50	MP1C	Z	0	.48
51	MP1C	Mx	-.005	.48
52	MP1C	X	8.6	3.98
53	MP1C	Z	0	3.98
54	MP1C	Mx	-.005	3.98
55	MP1A	X	.488	2.23
56	MP1A	Z	0	2.23
57	MP1A	Mx	.000356	2.23
58	MP1B	X	.488	2.23
59	MP1B	Z	0	2.23
60	MP1B	Mx	.000356	2.23
61	MP1C	X	.488	2.23
62	MP1C	Z	0	2.23
63	MP1C	Mx	.000356	2.23
64	MP2A	X	2.385	2.23
65	MP2A	Z	0	2.23
66	MP2A	Mx	.002	2.23
67	MP2B	X	2.523	2.23
68	MP2B	Z	0	2.23
69	MP2B	Mx	-.002	2.23
70	MP2C	X	3.532	2.23
71	MP2C	Z	0	2.23
72	MP2C	Mx	-.000473	2.23
73	MP3A	X	1.932	2.23
74	MP3A	Z	0	2.23
75	MP3A	Mx	.000966	2.23
76	MP3B	X	2.123	2.23
77	MP3B	Z	0	2.23
78	MP3B	Mx	-.000997	2.23
79	MP3C	X	3.518	2.23
80	MP3C	Z	0	2.23
81	MP3C	Mx	-.000305	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	2.111	1.23
2	MP4A	Z	1.219	1.23
3	MP4A	Mx	-.001	1.23
4	MP4A	X	2.111	3.23
5	MP4A	Z	1.219	3.23
6	MP4A	Mx	-.001	3.23
7	MP4B	X	2.907	1.23
8	MP4B	Z	1.678	1.23
9	MP4B	Mx	.001	1.23
10	MP4B	X	2.907	3.23
11	MP4B	Z	1.678	3.23
12	MP4B	Mx	.001	3.23
13	MP4C	X	2.907	1.23



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
14	MP4C	Z	1.678	1.23
15	MP4C	Mx	.001	1.23
16	MP4C	X	2.907	3.23
17	MP4C	Z	1.678	3.23
18	MP4C	Mx	.001	3.23
19	MP1A	X	5.628	.48
20	MP1A	Z	3.249	.48
21	MP1A	Mx	-.003	.48
22	MP1A	X	5.628	3.98
23	MP1A	Z	3.249	3.98
24	MP1A	Mx	-.003	3.98
25	MP1A	X	5.628	.48
26	MP1A	Z	3.249	.48
27	MP1A	Mx	-.009	.48
28	MP1A	X	5.628	3.98
29	MP1A	Z	3.249	3.98
30	MP1A	Mx	-.009	3.98
31	MP1B	X	6.459	.48
32	MP1B	Z	3.729	.48
33	MP1B	Mx	.000709	.48
34	MP1B	X	6.459	3.98
35	MP1B	Z	3.729	3.98
36	MP1B	Mx	.000709	3.98
37	MP1C	X	6.459	.48
38	MP1C	Z	3.729	.48
39	MP1C	Mx	.009	.48
40	MP1C	X	6.459	3.98
41	MP1C	Z	3.729	3.98
42	MP1C	Mx	.009	3.98
43	MP1B	X	6.459	.48
44	MP1B	Z	3.729	.48
45	MP1B	Mx	.009	.48
46	MP1B	X	6.459	3.98
47	MP1B	Z	3.729	3.98
48	MP1B	Mx	.009	3.98
49	MP1C	X	6.459	.48
50	MP1C	Z	3.729	.48
51	MP1C	Mx	.000709	.48
52	MP1C	X	6.459	3.98
53	MP1C	Z	3.729	3.98
54	MP1C	Mx	.000709	3.98
55	MP1A	X	.47	2.23
56	MP1A	Z	.271	2.23
57	MP1A	Mx	.000343	2.23
58	MP1B	X	.47	2.23
59	MP1B	Z	.271	2.23
60	MP1B	Mx	.000343	2.23
61	MP1C	X	.47	2.23
62	MP1C	Z	.271	2.23
63	MP1C	Mx	.000343	2.23
64	MP2A	X	2.321	2.23
65	MP2A	Z	1.34	2.23
66	MP2A	Mx	.002	2.23
67	MP2B	X	2.666	2.23
68	MP2B	Z	1.539	2.23
69	MP2B	Mx	-.002	2.23
70	MP2C	X	2.666	2.23



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
71	MP2C	Z	1.539	2.23
72	MP2C	Mx	-.002	2.23
73	MP3A	X	2.027	2.23
74	MP3A	Z	1.17	2.23
75	MP3A	Mx	.001	2.23
76	MP3B	X	2.504	2.23
77	MP3B	Z	1.446	2.23
78	MP3B	Mx	-.000929	2.23
79	MP3C	X	2.504	2.23
80	MP3C	Z	1.446	2.23
81	MP3C	Mx	-.000929	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	1.901	1.23
2	MP4A	Z	3.292	1.23
3	MP4A	Mx	-.000951	1.23
4	MP4A	X	1.901	3.23
5	MP4A	Z	3.292	3.23
6	MP4A	Mx	-.000951	3.23
7	MP4B	X	2.201	1.23
8	MP4B	Z	3.811	1.23
9	MP4B	Mx	.000382	1.23
10	MP4B	X	2.201	3.23
11	MP4B	Z	3.811	3.23
12	MP4B	Mx	.000382	3.23
13	MP4C	X	1.037	1.23
14	MP4C	Z	1.796	1.23
15	MP4C	Mx	.000974	1.23
16	MP4C	X	1.037	3.23
17	MP4C	Z	1.796	3.23
18	MP4C	Mx	.000974	3.23
19	MP1A	X	4.708	.48
20	MP1A	Z	8.154	.48
21	MP1A	Mx	.003	.48
22	MP1A	X	4.708	3.98
23	MP1A	Z	8.154	3.98
24	MP1A	Mx	.003	3.98
25	MP1A	X	4.708	.48
26	MP1A	Z	8.154	.48
27	MP1A	Mx	-.012	.48
28	MP1A	X	4.708	3.98
29	MP1A	Z	8.154	3.98
30	MP1A	Mx	-.012	3.98
31	MP1B	X	4.3	.48
32	MP1B	Z	7.448	.48
33	MP1B	Mx	-.005	.48
34	MP1B	X	4.3	3.98
35	MP1B	Z	7.448	3.98
36	MP1B	Mx	-.005	3.98
37	MP1C	X	3.028	.48
38	MP1C	Z	5.245	.48
39	MP1C	Mx	.007	.48
40	MP1C	X	3.028	3.98
41	MP1C	Z	5.245	3.98
42	MP1C	Mx	.007	3.98



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
43	MP1B	X	4.3	.48
44	MP1B	Z	7.448	.48
45	MP1B	Mx	.008	.48
46	MP1B	X	4.3	3.98
47	MP1B	Z	7.448	3.98
48	MP1B	Mx	.008	3.98
49	MP1C	X	3.028	.48
50	MP1C	Z	5.245	.48
51	MP1C	Mx	.004	.48
52	MP1C	X	3.028	3.98
53	MP1C	Z	5.245	3.98
54	MP1C	Mx	.004	3.98
55	MP1A	X	.326	2.23
56	MP1A	Z	.564	2.23
57	MP1A	Mx	.000238	2.23
58	MP1B	X	.326	2.23
59	MP1B	Z	.564	2.23
60	MP1B	Mx	.000238	2.23
61	MP1C	X	.326	2.23
62	MP1C	Z	.564	2.23
63	MP1C	Mx	.000238	2.23
64	MP2A	X	1.636	2.23
65	MP2A	Z	2.834	2.23
66	MP2A	Mx	.001	2.23
67	MP2B	X	1.766	2.23
68	MP2B	Z	3.059	2.23
69	MP2B	Mx	-.000473	2.23
70	MP2C	X	1.262	2.23
71	MP2C	Z	2.185	2.23
72	MP2C	Mx	-.002	2.23
73	MP3A	X	1.579	2.23
74	MP3A	Z	2.735	2.23
75	MP3A	Mx	.00079	2.23
76	MP3B	X	1.759	2.23
77	MP3B	Z	3.047	2.23
78	MP3B	Mx	-.000305	2.23
79	MP3C	X	1.062	2.23
80	MP3C	Z	1.839	2.23
81	MP3C	Mx	-.000998	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	1.23
2	MP4A	Z	4.483	1.23
3	MP4A	Mx	0	1.23
4	MP4A	X	0	3.23
5	MP4A	Z	4.483	3.23
6	MP4A	Mx	0	3.23
7	MP4B	X	0	1.23
8	MP4B	Z	4.164	1.23
9	MP4B	Mx	-.000712	1.23
10	MP4B	X	0	3.23
11	MP4B	Z	4.164	3.23
12	MP4B	Mx	-.000712	3.23
13	MP4C	X	0	1.23
14	MP4C	Z	1.837	1.23



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
15	MP4C	Mx	.000905	1.23
16	MP4C	X	0	3.23
17	MP4C	Z	1.837	3.23
18	MP4C	Mx	.000905	3.23
19	MP1A	X	0	.48
20	MP1A	Z	10.875	.48
21	MP1A	Mx	.01	.48
22	MP1A	X	0	3.98
23	MP1A	Z	10.875	3.98
24	MP1A	Mx	.01	3.98
25	MP1A	X	0	.48
26	MP1A	Z	10.875	.48
27	MP1A	Mx	-.01	.48
28	MP1A	X	0	3.98
29	MP1A	Z	10.875	3.98
30	MP1A	Mx	-.01	3.98
31	MP1B	X	0	.48
32	MP1B	Z	8.341	.48
33	MP1B	Mx	-.009	.48
34	MP1B	X	0	3.98
35	MP1B	Z	8.341	3.98
36	MP1B	Mx	-.009	3.98
37	MP1C	X	0	.48
38	MP1C	Z	5.797	.48
39	MP1C	Mx	.005	.48
40	MP1C	X	0	3.98
41	MP1C	Z	5.797	3.98
42	MP1C	Mx	.005	3.98
43	MP1B	X	0	.48
44	MP1B	Z	8.341	.48
45	MP1B	Mx	.003	.48
46	MP1B	X	0	3.98
47	MP1B	Z	8.341	3.98
48	MP1B	Mx	.003	3.98
49	MP1C	X	0	.48
50	MP1C	Z	5.797	.48
51	MP1C	Mx	.007	.48
52	MP1C	X	0	3.98
53	MP1C	Z	5.797	3.98
54	MP1C	Mx	.007	3.98
55	MP1A	X	0	2.23
56	MP1A	Z	.706	2.23
57	MP1A	Mx	0	2.23
58	MP1B	X	0	2.23
59	MP1B	Z	.706	2.23
60	MP1B	Mx	0	2.23
61	MP1C	X	0	2.23
62	MP1C	Z	.706	2.23
63	MP1C	Mx	0	2.23
64	MP2A	X	0	2.23
65	MP2A	Z	3.568	2.23
66	MP2A	Mx	0	2.23
67	MP2B	X	0	2.23
68	MP2B	Z	3.429	2.23
69	MP2B	Mx	.000904	2.23
70	MP2C	X	0	2.23
71	MP2C	Z	2.42	2.23



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2C	Mx	-.002	2.23
73	MP3A	X	0	2.23
74	MP3A	Z	3.568	2.23
75	MP3A	Mx	0	2.23
76	MP3B	X	0	2.23
77	MP3B	Z	3.376	2.23
78	MP3B	Mx	.000577	2.23
79	MP3C	X	0	2.23
80	MP3C	Z	1.981	2.23
81	MP3C	Mx	-.000975	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-1.901	1.23
2	MP4A	Z	3.292	1.23
3	MP4A	Mx	.000951	1.23
4	MP4A	X	-1.901	3.23
5	MP4A	Z	3.292	3.23
6	MP4A	Mx	.000951	3.23
7	MP4B	X	-1.441	1.23
8	MP4B	Z	2.496	1.23
9	MP4B	Mx	-.001	1.23
10	MP4B	X	-1.441	3.23
11	MP4B	Z	2.496	3.23
12	MP4B	Mx	-.001	3.23
13	MP4C	X	-1.441	1.23
14	MP4C	Z	2.496	1.23
15	MP4C	Mx	.001	1.23
16	MP4C	X	-1.441	3.23
17	MP4C	Z	2.496	3.23
18	MP4C	Mx	.001	3.23
19	MP1A	X	-4.708	.48
20	MP1A	Z	8.154	.48
21	MP1A	Mx	.012	.48
22	MP1A	X	-4.708	3.98
23	MP1A	Z	8.154	3.98
24	MP1A	Mx	.012	3.98
25	MP1A	X	-4.708	.48
26	MP1A	Z	8.154	.48
27	MP1A	Mx	-.003	.48
28	MP1A	X	-4.708	3.98
29	MP1A	Z	8.154	3.98
30	MP1A	Mx	-.003	3.98
31	MP1B	X	-3.47	.48
32	MP1B	Z	6.01	.48
33	MP1B	Mx	-.009	.48
34	MP1B	X	-3.47	3.98
35	MP1B	Z	6.01	3.98
36	MP1B	Mx	-.009	3.98
37	MP1C	X	-3.47	.48
38	MP1C	Z	6.01	.48
39	MP1C	Mx	.002	.48
40	MP1C	X	-3.47	3.98
41	MP1C	Z	6.01	3.98
42	MP1C	Mx	.002	3.98
43	MP1B	X	-3.47	.48





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
44	MP1B	Z	6.01	.48
45	MP1B	Mx	-.002	.48
46	MP1B	X	-3.47	3.98
47	MP1B	Z	6.01	3.98
48	MP1B	Mx	-.002	3.98
49	MP1C	X	-3.47	.48
50	MP1C	Z	6.01	.48
51	MP1C	Mx	.009	.48
52	MP1C	X	-3.47	3.98
53	MP1C	Z	6.01	3.98
54	MP1C	Mx	.009	3.98
55	MP1A	X	-.326	2.23
56	MP1A	Z	.564	2.23
57	MP1A	Mx	-.000238	2.23
58	MP1B	X	-.326	2.23
59	MP1B	Z	.564	2.23
60	MP1B	Mx	-.000238	2.23
61	MP1C	X	-.326	2.23
62	MP1C	Z	.564	2.23
63	MP1C	Mx	-.000238	2.23
64	MP2A	X	-1.636	2.23
65	MP2A	Z	2.834	2.23
66	MP2A	Mx	-.001	2.23
67	MP2B	X	-1.437	2.23
68	MP2B	Z	2.489	2.23
69	MP2B	Mx	.002	2.23
70	MP2C	X	-1.437	2.23
71	MP2C	Z	2.489	2.23
72	MP2C	Mx	-.002	2.23
73	MP3A	X	-1.579	2.23
74	MP3A	Z	2.735	2.23
75	MP3A	Mx	-.00079	2.23
76	MP3B	X	-1.304	2.23
77	MP3B	Z	2.258	2.23
78	MP3B	Mx	.000999	2.23
79	MP3C	X	-1.304	2.23
80	MP3C	Z	2.258	2.23
81	MP3C	Mx	-.000999	2.23

**Member Point Loads (BLC 35 : Antenna Wm (240 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-2.111	1.23
2	MP4A	Z	1.219	1.23
3	MP4A	Mx	.001	1.23
4	MP4A	X	-2.111	3.23
5	MP4A	Z	1.219	3.23
6	MP4A	Mx	.001	3.23
7	MP4B	X	-1.591	1.23
8	MP4B	Z	.919	1.23
9	MP4B	Mx	-.000905	1.23
10	MP4B	X	-1.591	3.23
11	MP4B	Z	.919	3.23
12	MP4B	Mx	-.000905	3.23
13	MP4C	X	-3.606	1.23
14	MP4C	Z	2.082	1.23
15	MP4C	Mx	.000712	1.23





**Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
73	MP3A	X	-2.027	2.23
74	MP3A	Z	1.17	2.23
75	MP3A	Mx	-.001	2.23
76	MP3B	X	-1.716	2.23
77	MP3B	Z	.99	2.23
78	MP3B	Mx	.000976	2.23
79	MP3C	X	-2.924	2.23
80	MP3C	Z	1.688	2.23
81	MP3C	Mx	-.000577	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-1.755	1.23
2	MP4A	Z	0	1.23
3	MP4A	Mx	.000877	1.23
4	MP4A	X	-1.755	3.23
5	MP4A	Z	0	3.23
6	MP4A	Mx	.000877	3.23
7	MP4B	X	-2.074	1.23
8	MP4B	Z	0	1.23
9	MP4B	Mx	-.000974	1.23
10	MP4B	X	-2.074	3.23
11	MP4B	Z	0	3.23
12	MP4B	Mx	-.000974	3.23
13	MP4C	X	-4.401	1.23
14	MP4C	Z	0	1.23
15	MP4C	Mx	-.000382	1.23
16	MP4C	X	-4.401	3.23
17	MP4C	Z	0	3.23
18	MP4C	Mx	-.000382	3.23
19	MP1A	X	-5.04	.48
20	MP1A	Z	0	.48
21	MP1A	Mx	.005	.48
22	MP1A	X	-5.04	3.98
23	MP1A	Z	0	3.98
24	MP1A	Mx	.005	3.98
25	MP1A	X	-5.04	.48
26	MP1A	Z	0	.48
27	MP1A	Mx	.005	.48
28	MP1A	X	-5.04	3.98
29	MP1A	Z	0	3.98
30	MP1A	Mx	.005	3.98
31	MP1B	X	-6.056	.48
32	MP1B	Z	0	.48
33	MP1B	Mx	-.004	.48
34	MP1B	X	-6.056	3.98
35	MP1B	Z	0	3.98
36	MP1B	Mx	-.004	3.98
37	MP1C	X	-8.6	.48
38	MP1C	Z	0	.48
39	MP1C	Mx	-.008	.48
40	MP1C	X	-8.6	3.98
41	MP1C	Z	0	3.98
42	MP1C	Mx	-.008	3.98
43	MP1B	X	-6.056	.48
44	MP1B	Z	0	.48





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
17	MP4C	Z	-1.678	3.23
18	MP4C	Mx	-.001	3.23
19	MP1A	X	-5.628	.48
20	MP1A	Z	-3.249	.48
21	MP1A	Mx	.003	.48
22	MP1A	X	-5.628	3.98
23	MP1A	Z	-3.249	3.98
24	MP1A	Mx	.003	3.98
25	MP1A	X	-5.628	.48
26	MP1A	Z	-3.249	.48
27	MP1A	Mx	.009	.48
28	MP1A	X	-5.628	3.98
29	MP1A	Z	-3.249	3.98
30	MP1A	Mx	.009	3.98
31	MP1B	X	-6.459	.48
32	MP1B	Z	-3.729	.48
33	MP1B	Mx	-.000709	.48
34	MP1B	X	-6.459	3.98
35	MP1B	Z	-3.729	3.98
36	MP1B	Mx	-.000709	3.98
37	MP1C	X	-6.459	.48
38	MP1C	Z	-3.729	.48
39	MP1C	Mx	-.009	.48
40	MP1C	X	-6.459	3.98
41	MP1C	Z	-3.729	3.98
42	MP1C	Mx	-.009	3.98
43	MP1B	X	-6.459	.48
44	MP1B	Z	-3.729	.48
45	MP1B	Mx	-.009	.48
46	MP1B	X	-6.459	3.98
47	MP1B	Z	-3.729	3.98
48	MP1B	Mx	-.009	3.98
49	MP1C	X	-6.459	.48
50	MP1C	Z	-3.729	.48
51	MP1C	Mx	-.000709	.48
52	MP1C	X	-6.459	3.98
53	MP1C	Z	-3.729	3.98
54	MP1C	Mx	-.000709	3.98
55	MP1A	X	-.47	2.23
56	MP1A	Z	-.271	2.23
57	MP1A	Mx	-.000343	2.23
58	MP1B	X	-.47	2.23
59	MP1B	Z	-.271	2.23
60	MP1B	Mx	-.000343	2.23
61	MP1C	X	-.47	2.23
62	MP1C	Z	-.271	2.23
63	MP1C	Mx	-.000343	2.23
64	MP2A	X	-2.321	2.23
65	MP2A	Z	-1.34	2.23
66	MP2A	Mx	-.002	2.23
67	MP2B	X	-2.666	2.23
68	MP2B	Z	-1.539	2.23
69	MP2B	Mx	.002	2.23
70	MP2C	X	-2.666	2.23
71	MP2C	Z	-1.539	2.23
72	MP2C	Mx	.002	2.23
73	MP3A	X	-2.027	2.23



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
74	MP3A	Z	-1.17	2.23
75	MP3A	Mx	-0.001	2.23
76	MP3B	X	-2.504	2.23
77	MP3B	Z	-1.446	2.23
78	MP3B	Mx	.000929	2.23
79	MP3C	X	-2.504	2.23
80	MP3C	Z	-1.446	2.23
81	MP3C	Mx	.000929	2.23

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-1.901	1.23
2	MP4A	Z	-3.292	1.23
3	MP4A	Mx	.000951	1.23
4	MP4A	X	-1.901	3.23
5	MP4A	Z	-3.292	3.23
6	MP4A	Mx	.000951	3.23
7	MP4B	X	-2.201	1.23
8	MP4B	Z	-3.811	1.23
9	MP4B	Mx	-.000382	1.23
10	MP4B	X	-2.201	3.23
11	MP4B	Z	-3.811	3.23
12	MP4B	Mx	-.000382	3.23
13	MP4C	X	-1.037	1.23
14	MP4C	Z	-1.796	1.23
15	MP4C	Mx	-.000974	1.23
16	MP4C	X	-1.037	3.23
17	MP4C	Z	-1.796	3.23
18	MP4C	Mx	-.000974	3.23
19	MP1A	X	-4.708	.48
20	MP1A	Z	-8.154	.48
21	MP1A	Mx	-.003	.48
22	MP1A	X	-4.708	3.98
23	MP1A	Z	-8.154	3.98
24	MP1A	Mx	-.003	3.98
25	MP1A	X	-4.708	.48
26	MP1A	Z	-8.154	.48
27	MP1A	Mx	.012	.48
28	MP1A	X	-4.708	3.98
29	MP1A	Z	-8.154	3.98
30	MP1A	Mx	.012	3.98
31	MP1B	X	-4.3	.48
32	MP1B	Z	-7.448	.48
33	MP1B	Mx	.005	.48
34	MP1B	X	-4.3	3.98
35	MP1B	Z	-7.448	3.98
36	MP1B	Mx	.005	3.98
37	MP1C	X	-3.028	.48
38	MP1C	Z	-5.245	.48
39	MP1C	Mx	-.007	.48
40	MP1C	X	-3.028	3.98
41	MP1C	Z	-5.245	3.98
42	MP1C	Mx	-.007	3.98
43	MP1B	X	-4.3	.48
44	MP1B	Z	-7.448	.48
45	MP1B	Mx	-.008	.48



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
46	MP1B	X	-4.3	3.98
47	MP1B	Z	-7.448	3.98
48	MP1B	Mx	-.008	3.98
49	MP1C	X	-3.028	.48
50	MP1C	Z	-5.245	.48
51	MP1C	Mx	-.004	.48
52	MP1C	X	-3.028	3.98
53	MP1C	Z	-5.245	3.98
54	MP1C	Mx	-.004	3.98
55	MP1A	X	-.326	2.23
56	MP1A	Z	-.564	2.23
57	MP1A	Mx	-.000238	2.23
58	MP1B	X	-.326	2.23
59	MP1B	Z	-.564	2.23
60	MP1B	Mx	-.000238	2.23
61	MP1C	X	-.326	2.23
62	MP1C	Z	-.564	2.23
63	MP1C	Mx	-.000238	2.23
64	MP2A	X	-1.636	2.23
65	MP2A	Z	-2.834	2.23
66	MP2A	Mx	-.001	2.23
67	MP2B	X	-1.766	2.23
68	MP2B	Z	-3.059	2.23
69	MP2B	Mx	.000473	2.23
70	MP2C	X	-1.262	2.23
71	MP2C	Z	-2.185	2.23
72	MP2C	Mx	.002	2.23
73	MP3A	X	-1.579	2.23
74	MP3A	Z	-2.735	2.23
75	MP3A	Mx	-.00079	2.23
76	MP3B	X	-1.759	2.23
77	MP3B	Z	-3.047	2.23
78	MP3B	Mx	.000305	2.23
79	MP3C	X	-1.062	2.23
80	MP3C	Z	-1.839	2.23
81	MP3C	Mx	.000998	2.23

**Member Point Loads (BLC 77 : Lm1)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M19	Y	-500	0

**Member Point Loads (BLC 78 : Lm2)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M20	Y	-500	0

**Member Point Loads (BLC 79 : Lv1)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M1	Y	-250	%50

**Member Point Loads (BLC 80 : Lv2)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M1	Y	-250	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	Y	-6.332	-6.332	0	%100
2	M4	Y	-9.287	-9.287	0	%100
3	M10	Y	-9.287	-9.287	0	%100
4	MP3A	Y	-4.791	-4.791	0	%100
5	MP4A	Y	-4.791	-4.791	0	%100
6	MP2A	Y	-4.791	-4.791	0	%100
7	MP1A	Y	-4.791	-4.791	0	%100
8	M43	Y	-9.287	-9.287	0	%100
9	M46	Y	-9.786	-9.786	0	%100
10	M51B	Y	-5.412	-5.412	0	%100
11	M52B	Y	-5.412	-5.412	0	%100
12	M76	Y	-9.773	-9.773	0	%100
13	M77	Y	-9.773	-9.773	0	%100
14	M80	Y	-9.786	-9.786	0	%100
15	M84	Y	-9.773	-9.773	0	%100
16	M85	Y	-9.773	-9.773	0	%100
17	M91	Y	-9.786	-9.786	0	%100
18	M34	Y	-9.287	-9.287	0	%100
19	M35	Y	-9.287	-9.287	0	%100
20	M36	Y	-9.287	-9.287	0	%100
21	M37	Y	-9.786	-9.786	0	%100
22	M40	Y	-5.412	-5.412	0	%100
23	M41	Y	-5.412	-5.412	0	%100
24	M45	Y	-9.773	-9.773	0	%100
25	M46A	Y	-9.773	-9.773	0	%100
26	M48	Y	-9.786	-9.786	0	%100
27	M50A	Y	-9.773	-9.773	0	%100
28	M51C	Y	-9.773	-9.773	0	%100
29	M53	Y	-9.786	-9.786	0	%100
30	M58A	Y	-9.287	-9.287	0	%100
31	M59A	Y	-9.287	-9.287	0	%100
32	M60	Y	-9.287	-9.287	0	%100
33	M61	Y	-9.786	-9.786	0	%100
34	M64	Y	-5.412	-5.412	0	%100
35	M65	Y	-5.412	-5.412	0	%100
36	M69	Y	-9.773	-9.773	0	%100
37	M70	Y	-9.773	-9.773	0	%100
38	M72	Y	-9.786	-9.786	0	%100
39	M74	Y	-9.773	-9.773	0	%100
40	M75	Y	-9.773	-9.773	0	%100
41	M77A	Y	-9.786	-9.786	0	%100
42	M82	Y	-6.332	-6.332	0	%100
43	MP3C	Y	-4.791	-4.791	0	%100
44	MP4C	Y	-4.791	-4.791	0	%100
45	MP2C	Y	-4.791	-4.791	0	%100
46	MP1C	Y	-4.791	-4.791	0	%100
47	M91A	Y	-6.332	-6.332	0	%100
48	MP3B	Y	-4.791	-4.791	0	%100
49	MP4B	Y	-4.791	-4.791	0	%100
50	MP2B	Y	-4.791	-4.791	0	%100
51	MP1B	Y	-4.791	-4.791	0	%100
52	M100	Y	-5.476	-5.476	0	%100
53	M105	Y	-5.476	-5.476	0	%100
54	M110	Y	-5.476	-5.476	0	%100
55	M121	Y	-7.349	-7.349	0	%100
56	M122	Y	-7.349	-7.349	0	%100





Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
57	M123	Y	-7.349	-7.349	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[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-10.156	-10.156	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-8.729	-8.729	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-6.892	-6.892	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-6.892	-6.892	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-6.892	-6.892	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-6.892	-6.892	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-8.729	-8.729	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-17.411	-17.411	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-2.417	-2.417	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-2.417	-2.417	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-4.433	-4.433	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-4.669	-4.669	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-4.433	-4.433	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-4.669	-4.669	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	-7.737	-7.737	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	-2.182	-2.182	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	-2.182	-2.182	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	-4.353	-4.353	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-2.417	-2.417	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	-9.668	-9.668	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-13.058	-13.058	0	%100
49	M46A	X	0	0	0	%100
50	M46A	Z	-4.433	-4.433	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	-4.669	-4.669	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
110	M121	Z	-2.541	-2.541	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	-2.541	-2.541	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	-10.166	-10.166	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[ft.%]	End Location[ft.%]
1	M1	X	3.809	3.809	0	%100
2	M1	Z	-6.597	-6.597	0	%100
3	M4	X	1.289	1.289	0	%100
4	M4	Z	-2.233	-2.233	0	%100
5	M10	X	3.273	3.273	0	%100
6	M10	Z	-5.67	-5.67	0	%100
7	MP3A	X	3.446	3.446	0	%100
8	MP3A	Z	-5.968	-5.968	0	%100
9	MP4A	X	3.446	3.446	0	%100
10	MP4A	Z	-5.968	-5.968	0	%100
11	MP2A	X	3.446	3.446	0	%100
12	MP2A	Z	-5.968	-5.968	0	%100
13	MP1A	X	3.446	3.446	0	%100
14	MP1A	Z	-5.968	-5.968	0	%100
15	M43	X	3.273	3.273	0	%100
16	M43	Z	-5.67	-5.67	0	%100
17	M46	X	6.529	6.529	0	%100
18	M46	Z	-11.309	-11.309	0	%100
19	M51B	X	3.625	3.625	0	%100
20	M51B	Z	-6.279	-6.279	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	2.176	2.176	0	%100
24	M76	Z	-3.77	-3.77	0	%100
25	M77	X	6.65	6.65	0	%100
26	M77	Z	-11.518	-11.518	0	%100
27	M80	X	7.004	7.004	0	%100
28	M80	Z	-12.132	-12.132	0	%100
29	M84	X	2.176	2.176	0	%100
30	M84	Z	-3.77	-3.77	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M34	X	1.289	1.289	0	%100
36	M34	Z	-2.233	-2.233	0	%100
37	M35	X	3.273	3.273	0	%100
38	M35	Z	-5.67	-5.67	0	%100
39	M36	X	3.273	3.273	0	%100
40	M36	Z	-5.67	-5.67	0	%100
41	M37	X	6.529	6.529	0	%100
42	M37	Z	-11.309	-11.309	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	3.625	3.625	0	%100
46	M41	Z	-6.279	-6.279	0	%100
47	M45	X	2.176	2.176	0	%100
48	M45	Z	-3.77	-3.77	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
49	M46A	X	0	0	0	%100
50	M46A	Z	0	0	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	0	0	0	%100
53	M50A	X	2.176	2.176	0	%100
54	M50A	Z	-3.77	-3.77	0	%100
55	M51C	X	6.65	6.65	0	%100
56	M51C	Z	-11.518	-11.518	0	%100
57	M53	X	7.004	7.004	0	%100
58	M53	Z	-12.132	-12.132	0	%100
59	M58A	X	5.158	5.158	0	%100
60	M58A	Z	-8.934	-8.934	0	%100
61	M59A	X	0	0	0	%100
62	M59A	Z	0	0	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	0	0	0	%100
65	M61	X	0	0	0	%100
66	M61	Z	0	0	0	%100
67	M64	X	3.625	3.625	0	%100
68	M64	Z	-6.279	-6.279	0	%100
69	M65	X	3.625	3.625	0	%100
70	M65	Z	-6.279	-6.279	0	%100
71	M69	X	8.705	8.705	0	%100
72	M69	Z	-15.078	-15.078	0	%100
73	M70	X	6.65	6.65	0	%100
74	M70	Z	-11.518	-11.518	0	%100
75	M72	X	7.004	7.004	0	%100
76	M72	Z	-12.132	-12.132	0	%100
77	M74	X	8.705	8.705	0	%100
78	M74	Z	-15.078	-15.078	0	%100
79	M75	X	6.65	6.65	0	%100
80	M75	Z	-11.518	-11.518	0	%100
81	M77A	X	7.004	7.004	0	%100
82	M77A	Z	-12.132	-12.132	0	%100
83	M82	X	3.809	3.809	0	%100
84	M82	Z	-6.597	-6.597	0	%100
85	MP3C	X	3.446	3.446	0	%100
86	MP3C	Z	-5.968	-5.968	0	%100
87	MP4C	X	3.446	3.446	0	%100
88	MP4C	Z	-5.968	-5.968	0	%100
89	MP2C	X	3.446	3.446	0	%100
90	MP2C	Z	-5.968	-5.968	0	%100
91	MP1C	X	3.446	3.446	0	%100
92	MP1C	Z	-5.968	-5.968	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	0	0	0	%100
95	MP3B	X	3.446	3.446	0	%100
96	MP3B	Z	-5.968	-5.968	0	%100
97	MP4B	X	3.446	3.446	0	%100
98	MP4B	Z	-5.968	-5.968	0	%100
99	MP2B	X	3.446	3.446	0	%100
100	MP2B	Z	-5.968	-5.968	0	%100
101	MP1B	X	3.446	3.446	0	%100
102	MP1B	Z	-5.968	-5.968	0	%100
103	M100	X	3.128	3.128	0	%100
104	M100	Z	-5.419	-5.419	0	%100
105	M105	X	3.128	3.128	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
106	M105	Z	-5.419	-5.419	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	0	0	0	%100
109	M121	X	3.812	3.812	0	%100
110	M121	Z	-6.603	-6.603	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	3.812	3.812	0	%100
114	M123	Z	-6.603	-6.603	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[ft.%]	End Location[ft.%]
1	M1	X	2.199	2.199	0	%100
2	M1	Z	-1.27	-1.27	0	%100
3	M4	X	6.7	6.7	0	%100
4	M4	Z	-3.868	-3.868	0	%100
5	M10	X	1.89	1.89	0	%100
6	M10	Z	-1.091	-1.091	0	%100
7	MP3A	X	5.968	5.968	0	%100
8	MP3A	Z	-3.446	-3.446	0	%100
9	MP4A	X	5.968	5.968	0	%100
10	MP4A	Z	-3.446	-3.446	0	%100
11	MP2A	X	5.968	5.968	0	%100
12	MP2A	Z	-3.446	-3.446	0	%100
13	MP1A	X	5.968	5.968	0	%100
14	MP1A	Z	-3.446	-3.446	0	%100
15	M43	X	1.89	1.89	0	%100
16	M43	Z	-1.091	-1.091	0	%100
17	M46	X	3.77	3.77	0	%100
18	M46	Z	-2.176	-2.176	0	%100
19	M51B	X	8.373	8.373	0	%100
20	M51B	Z	-4.834	-4.834	0	%100
21	M52B	X	2.093	2.093	0	%100
22	M52B	Z	-1.208	-1.208	0	%100
23	M76	X	11.309	11.309	0	%100
24	M76	Z	-6.529	-6.529	0	%100
25	M77	X	15.357	15.357	0	%100
26	M77	Z	-8.867	-8.867	0	%100
27	M80	X	16.176	16.176	0	%100
28	M80	Z	-9.339	-9.339	0	%100
29	M84	X	11.309	11.309	0	%100
30	M84	Z	-6.529	-6.529	0	%100
31	M85	X	3.839	3.839	0	%100
32	M85	Z	-2.217	-2.217	0	%100
33	M91	X	4.044	4.044	0	%100
34	M91	Z	-2.335	-2.335	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	7.559	7.559	0	%100
38	M35	Z	-4.364	-4.364	0	%100
39	M36	X	7.559	7.559	0	%100
40	M36	Z	-4.364	-4.364	0	%100
41	M37	X	15.078	15.078	0	%100
42	M37	Z	-8.705	-8.705	0	%100
43	M40	X	2.093	2.093	0	%100
44	M40	Z	-1.208	-1.208	0	%100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
45	M41	X	2.093	2.093	0 %100
46	M41	Z	-1.208	-1.208	0 %100
47	M45	X	0	0	0 %100
48	M45	Z	0	0	0 %100
49	M46A	X	3.839	3.839	0 %100
50	M46A	Z	-2.217	-2.217	0 %100
51	M48	X	4.044	4.044	0 %100
52	M48	Z	-2.335	-2.335	0 %100
53	M50A	X	0	0	0 %100
54	M50A	Z	0	0	0 %100
55	M51C	X	3.839	3.839	0 %100
56	M51C	Z	-2.217	-2.217	0 %100
57	M53	X	4.044	4.044	0 %100
58	M53	Z	-2.335	-2.335	0 %100
59	M58A	X	6.7	6.7	0 %100
60	M58A	Z	-3.868	-3.868	0 %100
61	M59A	X	1.89	1.89	0 %100
62	M59A	Z	-1.091	-1.091	0 %100
63	M60	X	1.89	1.89	0 %100
64	M60	Z	-1.091	-1.091	0 %100
65	M61	X	3.77	3.77	0 %100
66	M61	Z	-2.176	-2.176	0 %100
67	M64	X	2.093	2.093	0 %100
68	M64	Z	-1.208	-1.208	0 %100
69	M65	X	8.373	8.373	0 %100
70	M65	Z	-4.834	-4.834	0 %100
71	M69	X	11.309	11.309	0 %100
72	M69	Z	-6.529	-6.529	0 %100
73	M70	X	3.839	3.839	0 %100
74	M70	Z	-2.217	-2.217	0 %100
75	M72	X	4.044	4.044	0 %100
76	M72	Z	-2.335	-2.335	0 %100
77	M74	X	11.309	11.309	0 %100
78	M74	Z	-6.529	-6.529	0 %100
79	M75	X	15.357	15.357	0 %100
80	M75	Z	-8.867	-8.867	0 %100
81	M77A	X	16.176	16.176	0 %100
82	M77A	Z	-9.339	-9.339	0 %100
83	M82	X	8.796	8.796	0 %100
84	M82	Z	-5.078	-5.078	0 %100
85	MP3C	X	5.968	5.968	0 %100
86	MP3C	Z	-3.446	-3.446	0 %100
87	MP4C	X	5.968	5.968	0 %100
88	MP4C	Z	-3.446	-3.446	0 %100
89	MP2C	X	5.968	5.968	0 %100
90	MP2C	Z	-3.446	-3.446	0 %100
91	MP1C	X	5.968	5.968	0 %100
92	MP1C	Z	-3.446	-3.446	0 %100
93	M91A	X	2.199	2.199	0 %100
94	M91A	Z	-1.27	-1.27	0 %100
95	MP3B	X	5.968	5.968	0 %100
96	MP3B	Z	-3.446	-3.446	0 %100
97	MP4B	X	5.968	5.968	0 %100
98	MP4B	Z	-3.446	-3.446	0 %100
99	MP2B	X	5.968	5.968	0 %100
100	MP2B	Z	-3.446	-3.446	0 %100
101	MP1B	X	5.968	5.968	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[ft, %]	End Location[ft, %]
102	MP1B	Z	-3.446	-3.446	0	%100
103	M100	X	1.806	1.806	0	%100
104	M100	Z	-1.043	-1.043	0	%100
105	M105	X	7.225	7.225	0	%100
106	M105	Z	-4.171	-4.171	0	%100
107	M110	X	1.806	1.806	0	%100
108	M110	Z	-1.043	-1.043	0	%100
109	M121	X	8.804	8.804	0	%100
110	M121	Z	-5.083	-5.083	0	%100
111	M122	X	2.201	2.201	0	%100
112	M122	Z	-1.271	-1.271	0	%100
113	M123	X	2.201	2.201	0	%100
114	M123	Z	-1.271	-1.271	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[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	10.316	10.316	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	6.892	6.892	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	6.892	6.892	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	6.892	6.892	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	6.892	6.892	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	7.251	7.251	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	7.251	7.251	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	17.411	17.411	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	13.3	13.3	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	14.008	14.008	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	17.411	17.411	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	13.3	13.3	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	14.008	14.008	0	%100
34	M91	Z	0	0	0	%100
35	M34	X	2.579	2.579	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	6.547	6.547	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	6.547	6.547	0	%100
40	M36	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
41	M37	X	13.058	13.058	0 %100
42	M37	Z	0	0	0 %100
43	M40	X	7.251	7.251	0 %100
44	M40	Z	0	0	0 %100
45	M41	X	0	0	0 %100
46	M41	Z	0	0	0 %100
47	M45	X	4.353	4.353	0 %100
48	M45	Z	0	0	0 %100
49	M46A	X	13.3	13.3	0 %100
50	M46A	Z	0	0	0 %100
51	M48	X	14.008	14.008	0 %100
52	M48	Z	0	0	0 %100
53	M50A	X	4.353	4.353	0 %100
54	M50A	Z	0	0	0 %100
55	M51C	X	0	0	0 %100
56	M51C	Z	0	0	0 %100
57	M53	X	0	0	0 %100
58	M53	Z	0	0	0 %100
59	M58A	X	2.579	2.579	0 %100
60	M58A	Z	0	0	0 %100
61	M59A	X	6.547	6.547	0 %100
62	M59A	Z	0	0	0 %100
63	M60	X	6.547	6.547	0 %100
64	M60	Z	0	0	0 %100
65	M61	X	13.058	13.058	0 %100
66	M61	Z	0	0	0 %100
67	M64	X	0	0	0 %100
68	M64	Z	0	0	0 %100
69	M65	X	7.251	7.251	0 %100
70	M65	Z	0	0	0 %100
71	M69	X	4.353	4.353	0 %100
72	M69	Z	0	0	0 %100
73	M70	X	0	0	0 %100
74	M70	Z	0	0	0 %100
75	M72	X	0	0	0 %100
76	M72	Z	0	0	0 %100
77	M74	X	4.353	4.353	0 %100
78	M74	Z	0	0	0 %100
79	M75	X	13.3	13.3	0 %100
80	M75	Z	0	0	0 %100
81	M77A	X	14.008	14.008	0 %100
82	M77A	Z	0	0	0 %100
83	M82	X	7.617	7.617	0 %100
84	M82	Z	0	0	0 %100
85	MP3C	X	6.892	6.892	0 %100
86	MP3C	Z	0	0	0 %100
87	MP4C	X	6.892	6.892	0 %100
88	MP4C	Z	0	0	0 %100
89	MP2C	X	6.892	6.892	0 %100
90	MP2C	Z	0	0	0 %100
91	MP1C	X	6.892	6.892	0 %100
92	MP1C	Z	0	0	0 %100
93	M91A	X	7.617	7.617	0 %100
94	M91A	Z	0	0	0 %100
95	MP3B	X	6.892	6.892	0 %100
96	MP3B	Z	0	0	0 %100
97	MP4B	X	6.892	6.892	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
98	MP4B	Z	0	0	0	%100
99	MP2B	X	6.892	6.892	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	6.892	6.892	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	6.257	6.257	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	6.257	6.257	0	%100
108	M110	Z	0	0	0	%100
109	M121	X	7.624	7.624	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	7.624	7.624	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.199	2.199	0	%100
2	M1	Z	1.27	1.27	0	%100
3	M4	X	6.7	6.7	0	%100
4	M4	Z	3.868	3.868	0	%100
5	M10	X	1.89	1.89	0	%100
6	M10	Z	1.091	1.091	0	%100
7	MP3A	X	5.968	5.968	0	%100
8	MP3A	Z	3.446	3.446	0	%100
9	MP4A	X	5.968	5.968	0	%100
10	MP4A	Z	3.446	3.446	0	%100
11	MP2A	X	5.968	5.968	0	%100
12	MP2A	Z	3.446	3.446	0	%100
13	MP1A	X	5.968	5.968	0	%100
14	MP1A	Z	3.446	3.446	0	%100
15	M43	X	1.89	1.89	0	%100
16	M43	Z	1.091	1.091	0	%100
17	M46	X	3.77	3.77	0	%100
18	M46	Z	2.176	2.176	0	%100
19	M51B	X	2.093	2.093	0	%100
20	M51B	Z	1.208	1.208	0	%100
21	M52B	X	8.373	8.373	0	%100
22	M52B	Z	4.834	4.834	0	%100
23	M76	X	11.309	11.309	0	%100
24	M76	Z	6.529	6.529	0	%100
25	M77	X	3.839	3.839	0	%100
26	M77	Z	2.217	2.217	0	%100
27	M80	X	4.044	4.044	0	%100
28	M80	Z	2.335	2.335	0	%100
29	M84	X	11.309	11.309	0	%100
30	M84	Z	6.529	6.529	0	%100
31	M85	X	15.357	15.357	0	%100
32	M85	Z	8.867	8.867	0	%100
33	M91	X	16.176	16.176	0	%100
34	M91	Z	9.339	9.339	0	%100
35	M34	X	6.7	6.7	0	%100
36	M34	Z	3.868	3.868	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[ft, %]	End Location[ft, %]
37	M35	X	1.89	1.89	0	%100
38	M35	Z	1.091	1.091	0	%100
39	M36	X	1.89	1.89	0	%100
40	M36	Z	1.091	1.091	0	%100
41	M37	X	3.77	3.77	0	%100
42	M37	Z	2.176	2.176	0	%100
43	M40	X	8.373	8.373	0	%100
44	M40	Z	4.834	4.834	0	%100
45	M41	X	2.093	2.093	0	%100
46	M41	Z	1.208	1.208	0	%100
47	M45	X	11.309	11.309	0	%100
48	M45	Z	6.529	6.529	0	%100
49	M46A	X	15.357	15.357	0	%100
50	M46A	Z	8.867	8.867	0	%100
51	M48	X	16.176	16.176	0	%100
52	M48	Z	9.339	9.339	0	%100
53	M50A	X	11.309	11.309	0	%100
54	M50A	Z	6.529	6.529	0	%100
55	M51C	X	3.839	3.839	0	%100
56	M51C	Z	2.217	2.217	0	%100
57	M53	X	4.044	4.044	0	%100
58	M53	Z	2.335	2.335	0	%100
59	M58A	X	0	0	0	%100
60	M58A	Z	0	0	0	%100
61	M59A	X	7.559	7.559	0	%100
62	M59A	Z	4.364	4.364	0	%100
63	M60	X	7.559	7.559	0	%100
64	M60	Z	4.364	4.364	0	%100
65	M61	X	15.078	15.078	0	%100
66	M61	Z	8.705	8.705	0	%100
67	M64	X	2.093	2.093	0	%100
68	M64	Z	1.208	1.208	0	%100
69	M65	X	2.093	2.093	0	%100
70	M65	Z	1.208	1.208	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M70	X	3.839	3.839	0	%100
74	M70	Z	2.217	2.217	0	%100
75	M72	X	4.044	4.044	0	%100
76	M72	Z	2.335	2.335	0	%100
77	M74	X	0	0	0	%100
78	M74	Z	0	0	0	%100
79	M75	X	3.839	3.839	0	%100
80	M75	Z	2.217	2.217	0	%100
81	M77A	X	4.044	4.044	0	%100
82	M77A	Z	2.335	2.335	0	%100
83	M82	X	2.199	2.199	0	%100
84	M82	Z	1.27	1.27	0	%100
85	MP3C	X	5.968	5.968	0	%100
86	MP3C	Z	3.446	3.446	0	%100
87	MP4C	X	5.968	5.968	0	%100
88	MP4C	Z	3.446	3.446	0	%100
89	MP2C	X	5.968	5.968	0	%100
90	MP2C	Z	3.446	3.446	0	%100
91	MP1C	X	5.968	5.968	0	%100
92	MP1C	Z	3.446	3.446	0	%100
93	M91A	X	8.796	8.796	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[ft, %]	End Location[ft, %]
94	M91A	Z	5.078	5.078	0	%100
95	MP3B	X	5.968	5.968	0	%100
96	MP3B	Z	3.446	3.446	0	%100
97	MP4B	X	5.968	5.968	0	%100
98	MP4B	Z	3.446	3.446	0	%100
99	MP2B	X	5.968	5.968	0	%100
100	MP2B	Z	3.446	3.446	0	%100
101	MP1B	X	5.968	5.968	0	%100
102	MP1B	Z	3.446	3.446	0	%100
103	M100	X	1.806	1.806	0	%100
104	M100	Z	1.043	1.043	0	%100
105	M105	X	1.806	1.806	0	%100
106	M105	Z	1.043	1.043	0	%100
107	M110	X	7.225	7.225	0	%100
108	M110	Z	4.171	4.171	0	%100
109	M121	X	2.201	2.201	0	%100
110	M121	Z	1.271	1.271	0	%100
111	M122	X	8.804	8.804	0	%100
112	M122	Z	5.083	5.083	0	%100
113	M123	X	2.201	2.201	0	%100
114	M123	Z	1.271	1.271	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[ft, %]	End Location[ft, %]
1	M1	X	3.809	3.809	0	%100
2	M1	Z	6.597	6.597	0	%100
3	M4	X	1.289	1.289	0	%100
4	M4	Z	2.233	2.233	0	%100
5	M10	X	3.273	3.273	0	%100
6	M10	Z	5.67	5.67	0	%100
7	MP3A	X	3.446	3.446	0	%100
8	MP3A	Z	5.968	5.968	0	%100
9	MP4A	X	3.446	3.446	0	%100
10	MP4A	Z	5.968	5.968	0	%100
11	MP2A	X	3.446	3.446	0	%100
12	MP2A	Z	5.968	5.968	0	%100
13	MP1A	X	3.446	3.446	0	%100
14	MP1A	Z	5.968	5.968	0	%100
15	M43	X	3.273	3.273	0	%100
16	M43	Z	5.67	5.67	0	%100
17	M46	X	6.529	6.529	0	%100
18	M46	Z	11.309	11.309	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	3.625	3.625	0	%100
22	M52B	Z	6.279	6.279	0	%100
23	M76	X	2.176	2.176	0	%100
24	M76	Z	3.77	3.77	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	2.176	2.176	0	%100
30	M84	Z	3.77	3.77	0	%100
31	M85	X	6.65	6.65	0	%100
32	M85	Z	11.518	11.518	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
33	M91	X	7.004	7.004	0 %100
34	M91	Z	12.132	12.132	0 %100
35	M34	X	5.158	5.158	0 %100
36	M34	Z	8.934	8.934	0 %100
37	M35	X	0	0	0 %100
38	M35	Z	0	0	0 %100
39	M36	X	0	0	0 %100
40	M36	Z	0	0	0 %100
41	M37	X	0	0	0 %100
42	M37	Z	0	0	0 %100
43	M40	X	3.625	3.625	0 %100
44	M40	Z	6.279	6.279	0 %100
45	M41	X	3.625	3.625	0 %100
46	M41	Z	6.279	6.279	0 %100
47	M45	X	8.705	8.705	0 %100
48	M45	Z	15.078	15.078	0 %100
49	M46A	X	6.65	6.65	0 %100
50	M46A	Z	11.518	11.518	0 %100
51	M48	X	7.004	7.004	0 %100
52	M48	Z	12.132	12.132	0 %100
53	M50A	X	8.705	8.705	0 %100
54	M50A	Z	15.078	15.078	0 %100
55	M51C	X	6.65	6.65	0 %100
56	M51C	Z	11.518	11.518	0 %100
57	M53	X	7.004	7.004	0 %100
58	M53	Z	12.132	12.132	0 %100
59	M58A	X	1.289	1.289	0 %100
60	M58A	Z	2.233	2.233	0 %100
61	M59A	X	3.273	3.273	0 %100
62	M59A	Z	5.67	5.67	0 %100
63	M60	X	3.273	3.273	0 %100
64	M60	Z	5.67	5.67	0 %100
65	M61	X	6.529	6.529	0 %100
66	M61	Z	11.309	11.309	0 %100
67	M64	X	3.625	3.625	0 %100
68	M64	Z	6.279	6.279	0 %100
69	M65	X	0	0	0 %100
70	M65	Z	0	0	0 %100
71	M69	X	2.176	2.176	0 %100
72	M69	Z	3.77	3.77	0 %100
73	M70	X	6.65	6.65	0 %100
74	M70	Z	11.518	11.518	0 %100
75	M72	X	7.004	7.004	0 %100
76	M72	Z	12.132	12.132	0 %100
77	M74	X	2.176	2.176	0 %100
78	M74	Z	3.77	3.77	0 %100
79	M75	X	0	0	0 %100
80	M75	Z	0	0	0 %100
81	M77A	X	0	0	0 %100
82	M77A	Z	0	0	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	0	0	0 %100
85	MP3C	X	3.446	3.446	0 %100
86	MP3C	Z	5.968	5.968	0 %100
87	MP4C	X	3.446	3.446	0 %100
88	MP4C	Z	5.968	5.968	0 %100
89	MP2C	X	3.446	3.446	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
90	MP2C	Z	5.968	5.968	0	%100
91	MP1C	X	3.446	3.446	0	%100
92	MP1C	Z	5.968	5.968	0	%100
93	M91A	X	3.809	3.809	0	%100
94	M91A	Z	6.597	6.597	0	%100
95	MP3B	X	3.446	3.446	0	%100
96	MP3B	Z	5.968	5.968	0	%100
97	MP4B	X	3.446	3.446	0	%100
98	MP4B	Z	5.968	5.968	0	%100
99	MP2B	X	3.446	3.446	0	%100
100	MP2B	Z	5.968	5.968	0	%100
101	MP1B	X	3.446	3.446	0	%100
102	MP1B	Z	5.968	5.968	0	%100
103	M100	X	3.128	3.128	0	%100
104	M100	Z	5.419	5.419	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	3.128	3.128	0	%100
108	M110	Z	5.419	5.419	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	3.812	3.812	0	%100
112	M122	Z	6.603	6.603	0	%100
113	M123	X	3.812	3.812	0	%100
114	M123	Z	6.603	6.603	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[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	10.156	10.156	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	8.729	8.729	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	6.892	6.892	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	6.892	6.892	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	6.892	6.892	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	6.892	6.892	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	8.729	8.729	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	17.411	17.411	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	2.417	2.417	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	2.417	2.417	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	4.433	4.433	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	4.669	4.669	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	4.433	4.433	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	4.669	4.669	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	7.737	7.737	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	2.182	2.182	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	2.182	2.182	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	4.353	4.353	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	2.417	2.417	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	9.668	9.668	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	13.058	13.058	0	%100
49	M46A	X	0	0	0	%100
50	M46A	Z	4.433	4.433	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	4.669	4.669	0	%100
53	M50A	X	0	0	0	%100
54	M50A	Z	13.058	13.058	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	17.733	17.733	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	18.678	18.678	0	%100
59	M58A	X	0	0	0	%100
60	M58A	Z	7.737	7.737	0	%100
61	M59A	X	0	0	0	%100
62	M59A	Z	2.182	2.182	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	2.182	2.182	0	%100
65	M61	X	0	0	0	%100
66	M61	Z	4.353	4.353	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	9.668	9.668	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	2.417	2.417	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	13.058	13.058	0	%100
73	M70	X	0	0	0	%100
74	M70	Z	17.733	17.733	0	%100
75	M72	X	0	0	0	%100
76	M72	Z	18.678	18.678	0	%100
77	M74	X	0	0	0	%100
78	M74	Z	13.058	13.058	0	%100
79	M75	X	0	0	0	%100
80	M75	Z	4.433	4.433	0	%100
81	M77A	X	0	0	0	%100
82	M77A	Z	4.669	4.669	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	2.539	2.539	0	%100
85	MP3C	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
86	MP3C	Z	6.892	6.892	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	6.892	6.892	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	6.892	6.892	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	6.892	6.892	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	2.539	2.539	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	6.892	6.892	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	6.892	6.892	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	6.892	6.892	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	6.892	6.892	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	8.343	8.343	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	2.086	2.086	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	2.086	2.086	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	2.541	2.541	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	2.541	2.541	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	10.166	10.166	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[ft, %]	End Location[ft, %]
1	M1	X	-3.809	-3.809	0	%100
2	M1	Z	6.597	6.597	0	%100
3	M4	X	-1.289	-1.289	0	%100
4	M4	Z	2.233	2.233	0	%100
5	M10	X	-3.273	-3.273	0	%100
6	M10	Z	5.67	5.67	0	%100
7	MP3A	X	-3.446	-3.446	0	%100
8	MP3A	Z	5.968	5.968	0	%100
9	MP4A	X	-3.446	-3.446	0	%100
10	MP4A	Z	5.968	5.968	0	%100
11	MP2A	X	-3.446	-3.446	0	%100
12	MP2A	Z	5.968	5.968	0	%100
13	MP1A	X	-3.446	-3.446	0	%100
14	MP1A	Z	5.968	5.968	0	%100
15	M43	X	-3.273	-3.273	0	%100
16	M43	Z	5.67	5.67	0	%100
17	M46	X	-6.529	-6.529	0	%100
18	M46	Z	11.309	11.309	0	%100
19	M51B	X	-3.625	-3.625	0	%100
20	M51B	Z	6.279	6.279	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-2.176	-2.176	0	%100
24	M76	Z	3.77	3.77	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[ft, %]	End Location[ft, %]
25	M77	X	-6.65	-6.65	0 %100
26	M77	Z	11.518	11.518	0 %100
27	M80	X	-7.004	-7.004	0 %100
28	M80	Z	12.132	12.132	0 %100
29	M84	X	-2.176	-2.176	0 %100
30	M84	Z	3.77	3.77	0 %100
31	M85	X	0	0	0 %100
32	M85	Z	0	0	0 %100
33	M91	X	0	0	0 %100
34	M91	Z	0	0	0 %100
35	M34	X	-1.289	-1.289	0 %100
36	M34	Z	2.233	2.233	0 %100
37	M35	X	-3.273	-3.273	0 %100
38	M35	Z	5.67	5.67	0 %100
39	M36	X	-3.273	-3.273	0 %100
40	M36	Z	5.67	5.67	0 %100
41	M37	X	-6.529	-6.529	0 %100
42	M37	Z	11.309	11.309	0 %100
43	M40	X	0	0	0 %100
44	M40	Z	0	0	0 %100
45	M41	X	-3.625	-3.625	0 %100
46	M41	Z	6.279	6.279	0 %100
47	M45	X	-2.176	-2.176	0 %100
48	M45	Z	3.77	3.77	0 %100
49	M46A	X	0	0	0 %100
50	M46A	Z	0	0	0 %100
51	M48	X	0	0	0 %100
52	M48	Z	0	0	0 %100
53	M50A	X	-2.176	-2.176	0 %100
54	M50A	Z	3.77	3.77	0 %100
55	M51C	X	-6.65	-6.65	0 %100
56	M51C	Z	11.518	11.518	0 %100
57	M53	X	-7.004	-7.004	0 %100
58	M53	Z	12.132	12.132	0 %100
59	M58A	X	-5.158	-5.158	0 %100
60	M58A	Z	8.934	8.934	0 %100
61	M59A	X	0	0	0 %100
62	M59A	Z	0	0	0 %100
63	M60	X	0	0	0 %100
64	M60	Z	0	0	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	0	0	0 %100
67	M64	X	-3.625	-3.625	0 %100
68	M64	Z	6.279	6.279	0 %100
69	M65	X	-3.625	-3.625	0 %100
70	M65	Z	6.279	6.279	0 %100
71	M69	X	-8.705	-8.705	0 %100
72	M69	Z	15.078	15.078	0 %100
73	M70	X	-6.65	-6.65	0 %100
74	M70	Z	11.518	11.518	0 %100
75	M72	X	-7.004	-7.004	0 %100
76	M72	Z	12.132	12.132	0 %100
77	M74	X	-8.705	-8.705	0 %100
78	M74	Z	15.078	15.078	0 %100
79	M75	X	-6.65	-6.65	0 %100
80	M75	Z	11.518	11.518	0 %100
81	M77A	X	-7.004	-7.004	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[ft, %]	End Location[ft, %]
82	M77A	Z	12.132	12.132	0	%100
83	M82	X	-3.809	-3.809	0	%100
84	M82	Z	6.597	6.597	0	%100
85	MP3C	X	-3.446	-3.446	0	%100
86	MP3C	Z	5.968	5.968	0	%100
87	MP4C	X	-3.446	-3.446	0	%100
88	MP4C	Z	5.968	5.968	0	%100
89	MP2C	X	-3.446	-3.446	0	%100
90	MP2C	Z	5.968	5.968	0	%100
91	MP1C	X	-3.446	-3.446	0	%100
92	MP1C	Z	5.968	5.968	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	0	0	0	%100
95	MP3B	X	-3.446	-3.446	0	%100
96	MP3B	Z	5.968	5.968	0	%100
97	MP4B	X	-3.446	-3.446	0	%100
98	MP4B	Z	5.968	5.968	0	%100
99	MP2B	X	-3.446	-3.446	0	%100
100	MP2B	Z	5.968	5.968	0	%100
101	MP1B	X	-3.446	-3.446	0	%100
102	MP1B	Z	5.968	5.968	0	%100
103	M100	X	-3.128	-3.128	0	%100
104	M100	Z	5.419	5.419	0	%100
105	M105	X	-3.128	-3.128	0	%100
106	M105	Z	5.419	5.419	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	0	0	0	%100
109	M121	X	-3.812	-3.812	0	%100
110	M121	Z	6.603	6.603	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	-3.812	-3.812	0	%100
114	M123	Z	6.603	6.603	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[ft, %]	End Location[ft, %]
1	M1	X	-2.199	-2.199	0	%100
2	M1	Z	1.27	1.27	0	%100
3	M4	X	-6.7	-6.7	0	%100
4	M4	Z	3.868	3.868	0	%100
5	M10	X	-1.89	-1.89	0	%100
6	M10	Z	1.091	1.091	0	%100
7	MP3A	X	-5.968	-5.968	0	%100
8	MP3A	Z	3.446	3.446	0	%100
9	MP4A	X	-5.968	-5.968	0	%100
10	MP4A	Z	3.446	3.446	0	%100
11	MP2A	X	-5.968	-5.968	0	%100
12	MP2A	Z	3.446	3.446	0	%100
13	MP1A	X	-5.968	-5.968	0	%100
14	MP1A	Z	3.446	3.446	0	%100
15	M43	X	-1.89	-1.89	0	%100
16	M43	Z	1.091	1.091	0	%100
17	M46	X	-3.77	-3.77	0	%100
18	M46	Z	2.176	2.176	0	%100
19	M51B	X	-8.373	-8.373	0	%100
20	M51B	Z	4.834	4.834	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
21	M52B	X	-2.093	-2.093	0 %100
22	M52B	Z	1.208	1.208	0 %100
23	M76	X	-11.309	-11.309	0 %100
24	M76	Z	6.529	6.529	0 %100
25	M77	X	-15.357	-15.357	0 %100
26	M77	Z	8.867	8.867	0 %100
27	M80	X	-16.176	-16.176	0 %100
28	M80	Z	9.339	9.339	0 %100
29	M84	X	-11.309	-11.309	0 %100
30	M84	Z	6.529	6.529	0 %100
31	M85	X	-3.839	-3.839	0 %100
32	M85	Z	2.217	2.217	0 %100
33	M91	X	-4.044	-4.044	0 %100
34	M91	Z	2.335	2.335	0 %100
35	M34	X	0	0	0 %100
36	M34	Z	0	0	0 %100
37	M35	X	-7.559	-7.559	0 %100
38	M35	Z	4.364	4.364	0 %100
39	M36	X	-7.559	-7.559	0 %100
40	M36	Z	4.364	4.364	0 %100
41	M37	X	-15.078	-15.078	0 %100
42	M37	Z	8.705	8.705	0 %100
43	M40	X	-2.093	-2.093	0 %100
44	M40	Z	1.208	1.208	0 %100
45	M41	X	-2.093	-2.093	0 %100
46	M41	Z	1.208	1.208	0 %100
47	M45	X	0	0	0 %100
48	M45	Z	0	0	0 %100
49	M46A	X	-3.839	-3.839	0 %100
50	M46A	Z	2.217	2.217	0 %100
51	M48	X	-4.044	-4.044	0 %100
52	M48	Z	2.335	2.335	0 %100
53	M50A	X	0	0	0 %100
54	M50A	Z	0	0	0 %100
55	M51C	X	-3.839	-3.839	0 %100
56	M51C	Z	2.217	2.217	0 %100
57	M53	X	-4.044	-4.044	0 %100
58	M53	Z	2.335	2.335	0 %100
59	M58A	X	-6.7	-6.7	0 %100
60	M58A	Z	3.868	3.868	0 %100
61	M59A	X	-1.89	-1.89	0 %100
62	M59A	Z	1.091	1.091	0 %100
63	M60	X	-1.89	-1.89	0 %100
64	M60	Z	1.091	1.091	0 %100
65	M61	X	-3.77	-3.77	0 %100
66	M61	Z	2.176	2.176	0 %100
67	M64	X	-2.093	-2.093	0 %100
68	M64	Z	1.208	1.208	0 %100
69	M65	X	-8.373	-8.373	0 %100
70	M65	Z	4.834	4.834	0 %100
71	M69	X	-11.309	-11.309	0 %100
72	M69	Z	6.529	6.529	0 %100
73	M70	X	-3.839	-3.839	0 %100
74	M70	Z	2.217	2.217	0 %100
75	M72	X	-4.044	-4.044	0 %100
76	M72	Z	2.335	2.335	0 %100
77	M74	X	-11.309	-11.309	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
78	M74	Z	6.529	6.529	0	%100
79	M75	X	-15.357	-15.357	0	%100
80	M75	Z	8.867	8.867	0	%100
81	M77A	X	-16.176	-16.176	0	%100
82	M77A	Z	9.339	9.339	0	%100
83	M82	X	-8.796	-8.796	0	%100
84	M82	Z	5.078	5.078	0	%100
85	MP3C	X	-5.968	-5.968	0	%100
86	MP3C	Z	3.446	3.446	0	%100
87	MP4C	X	-5.968	-5.968	0	%100
88	MP4C	Z	3.446	3.446	0	%100
89	MP2C	X	-5.968	-5.968	0	%100
90	MP2C	Z	3.446	3.446	0	%100
91	MP1C	X	-5.968	-5.968	0	%100
92	MP1C	Z	3.446	3.446	0	%100
93	M91A	X	-2.199	-2.199	0	%100
94	M91A	Z	1.27	1.27	0	%100
95	MP3B	X	-5.968	-5.968	0	%100
96	MP3B	Z	3.446	3.446	0	%100
97	MP4B	X	-5.968	-5.968	0	%100
98	MP4B	Z	3.446	3.446	0	%100
99	MP2B	X	-5.968	-5.968	0	%100
100	MP2B	Z	3.446	3.446	0	%100
101	MP1B	X	-5.968	-5.968	0	%100
102	MP1B	Z	3.446	3.446	0	%100
103	M100	X	-1.806	-1.806	0	%100
104	M100	Z	1.043	1.043	0	%100
105	M105	X	-7.225	-7.225	0	%100
106	M105	Z	4.171	4.171	0	%100
107	M110	X	-1.806	-1.806	0	%100
108	M110	Z	1.043	1.043	0	%100
109	M121	X	-8.804	-8.804	0	%100
110	M121	Z	5.083	5.083	0	%100
111	M122	X	-2.201	-2.201	0	%100
112	M122	Z	1.271	1.271	0	%100
113	M123	X	-2.201	-2.201	0	%100
114	M123	Z	1.271	1.271	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-10.316	-10.316	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-6.892	-6.892	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-6.892	-6.892	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-6.892	-6.892	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-6.892	-6.892	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	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[ft, %]	End Location[ft, %]
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-7.251	-7.251	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-7.251	-7.251	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-17.411	-17.411	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-13.3	-13.3	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-14.008	-14.008	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-17.411	-17.411	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-13.3	-13.3	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-14.008	-14.008	0	%100
34	M91	Z	0	0	0	%100
35	M34	X	-2.579	-2.579	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-6.547	-6.547	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	-6.547	-6.547	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	-13.058	-13.058	0	%100
42	M37	Z	0	0	0	%100
43	M40	X	-7.251	-7.251	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	0	0	0	%100
47	M45	X	-4.353	-4.353	0	%100
48	M45	Z	0	0	0	%100
49	M46A	X	-13.3	-13.3	0	%100
50	M46A	Z	0	0	0	%100
51	M48	X	-14.008	-14.008	0	%100
52	M48	Z	0	0	0	%100
53	M50A	X	-4.353	-4.353	0	%100
54	M50A	Z	0	0	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	0	0	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	0	0	0	%100
59	M58A	X	-2.579	-2.579	0	%100
60	M58A	Z	0	0	0	%100
61	M59A	X	-6.547	-6.547	0	%100
62	M59A	Z	0	0	0	%100
63	M60	X	-6.547	-6.547	0	%100
64	M60	Z	0	0	0	%100
65	M61	X	-13.058	-13.058	0	%100
66	M61	Z	0	0	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	-7.251	-7.251	0	%100
70	M65	Z	0	0	0	%100
71	M69	X	-4.353	-4.353	0	%100
72	M69	Z	0	0	0	%100
73	M70	X	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[ft, %]	End Location[ft, %]
74	M70	Z	0	0	0	%100
75	M72	X	0	0	0	%100
76	M72	Z	0	0	0	%100
77	M74	X	-4.353	-4.353	0	%100
78	M74	Z	0	0	0	%100
79	M75	X	-13.3	-13.3	0	%100
80	M75	Z	0	0	0	%100
81	M77A	X	-14.008	-14.008	0	%100
82	M77A	Z	0	0	0	%100
83	M82	X	-7.617	-7.617	0	%100
84	M82	Z	0	0	0	%100
85	MP3C	X	-6.892	-6.892	0	%100
86	MP3C	Z	0	0	0	%100
87	MP4C	X	-6.892	-6.892	0	%100
88	MP4C	Z	0	0	0	%100
89	MP2C	X	-6.892	-6.892	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	-6.892	-6.892	0	%100
92	MP1C	Z	0	0	0	%100
93	M91A	X	-7.617	-7.617	0	%100
94	M91A	Z	0	0	0	%100
95	MP3B	X	-6.892	-6.892	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	-6.892	-6.892	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	-6.892	-6.892	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-6.892	-6.892	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	-6.257	-6.257	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	-6.257	-6.257	0	%100
108	M110	Z	0	0	0	%100
109	M121	X	-7.624	-7.624	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	-7.624	-7.624	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	0	0	0	%100
114	M123	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[ft, %]	End Location[ft, %]
1	M1	X	-2.199	-2.199	0	%100
2	M1	Z	-1.27	-1.27	0	%100
3	M4	X	-6.7	-6.7	0	%100
4	M4	Z	-3.868	-3.868	0	%100
5	M10	X	-1.89	-1.89	0	%100
6	M10	Z	-1.091	-1.091	0	%100
7	MP3A	X	-5.968	-5.968	0	%100
8	MP3A	Z	-3.446	-3.446	0	%100
9	MP4A	X	-5.968	-5.968	0	%100
10	MP4A	Z	-3.446	-3.446	0	%100
11	MP2A	X	-5.968	-5.968	0	%100
12	MP2A	Z	-3.446	-3.446	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[ft, %]	End Location[ft, %]
13	MP1A	X	-5.968	-5.968	0	%100
14	MP1A	Z	-3.446	-3.446	0	%100
15	M43	X	-1.89	-1.89	0	%100
16	M43	Z	-1.091	-1.091	0	%100
17	M46	X	-3.77	-3.77	0	%100
18	M46	Z	-2.176	-2.176	0	%100
19	M51B	X	-2.093	-2.093	0	%100
20	M51B	Z	-1.208	-1.208	0	%100
21	M52B	X	-8.373	-8.373	0	%100
22	M52B	Z	-4.834	-4.834	0	%100
23	M76	X	-11.309	-11.309	0	%100
24	M76	Z	-6.529	-6.529	0	%100
25	M77	X	-3.839	-3.839	0	%100
26	M77	Z	-2.217	-2.217	0	%100
27	M80	X	-4.044	-4.044	0	%100
28	M80	Z	-2.335	-2.335	0	%100
29	M84	X	-11.309	-11.309	0	%100
30	M84	Z	-6.529	-6.529	0	%100
31	M85	X	-15.357	-15.357	0	%100
32	M85	Z	-8.867	-8.867	0	%100
33	M91	X	-16.176	-16.176	0	%100
34	M91	Z	-9.339	-9.339	0	%100
35	M34	X	-6.7	-6.7	0	%100
36	M34	Z	-3.868	-3.868	0	%100
37	M35	X	-1.89	-1.89	0	%100
38	M35	Z	-1.091	-1.091	0	%100
39	M36	X	-1.89	-1.89	0	%100
40	M36	Z	-1.091	-1.091	0	%100
41	M37	X	-3.77	-3.77	0	%100
42	M37	Z	-2.176	-2.176	0	%100
43	M40	X	-8.373	-8.373	0	%100
44	M40	Z	-4.834	-4.834	0	%100
45	M41	X	-2.093	-2.093	0	%100
46	M41	Z	-1.208	-1.208	0	%100
47	M45	X	-11.309	-11.309	0	%100
48	M45	Z	-6.529	-6.529	0	%100
49	M46A	X	-15.357	-15.357	0	%100
50	M46A	Z	-8.867	-8.867	0	%100
51	M48	X	-16.176	-16.176	0	%100
52	M48	Z	-9.339	-9.339	0	%100
53	M50A	X	-11.309	-11.309	0	%100
54	M50A	Z	-6.529	-6.529	0	%100
55	M51C	X	-3.839	-3.839	0	%100
56	M51C	Z	-2.217	-2.217	0	%100
57	M53	X	-4.044	-4.044	0	%100
58	M53	Z	-2.335	-2.335	0	%100
59	M58A	X	0	0	0	%100
60	M58A	Z	0	0	0	%100
61	M59A	X	-7.559	-7.559	0	%100
62	M59A	Z	-4.364	-4.364	0	%100
63	M60	X	-7.559	-7.559	0	%100
64	M60	Z	-4.364	-4.364	0	%100
65	M61	X	-15.078	-15.078	0	%100
66	M61	Z	-8.705	-8.705	0	%100
67	M64	X	-2.093	-2.093	0	%100
68	M64	Z	-1.208	-1.208	0	%100
69	M65	X	-2.093	-2.093	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[ft, %]	End Location[ft, %]
70	M65	Z	-1.208	-1.208	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M70	X	-3.839	-3.839	0	%100
74	M70	Z	-2.217	-2.217	0	%100
75	M72	X	-4.044	-4.044	0	%100
76	M72	Z	-2.335	-2.335	0	%100
77	M74	X	0	0	0	%100
78	M74	Z	0	0	0	%100
79	M75	X	-3.839	-3.839	0	%100
80	M75	Z	-2.217	-2.217	0	%100
81	M77A	X	-4.044	-4.044	0	%100
82	M77A	Z	-2.335	-2.335	0	%100
83	M82	X	-2.199	-2.199	0	%100
84	M82	Z	-1.27	-1.27	0	%100
85	MP3C	X	-5.968	-5.968	0	%100
86	MP3C	Z	-3.446	-3.446	0	%100
87	MP4C	X	-5.968	-5.968	0	%100
88	MP4C	Z	-3.446	-3.446	0	%100
89	MP2C	X	-5.968	-5.968	0	%100
90	MP2C	Z	-3.446	-3.446	0	%100
91	MP1C	X	-5.968	-5.968	0	%100
92	MP1C	Z	-3.446	-3.446	0	%100
93	M91A	X	-8.796	-8.796	0	%100
94	M91A	Z	-5.078	-5.078	0	%100
95	MP3B	X	-5.968	-5.968	0	%100
96	MP3B	Z	-3.446	-3.446	0	%100
97	MP4B	X	-5.968	-5.968	0	%100
98	MP4B	Z	-3.446	-3.446	0	%100
99	MP2B	X	-5.968	-5.968	0	%100
100	MP2B	Z	-3.446	-3.446	0	%100
101	MP1B	X	-5.968	-5.968	0	%100
102	MP1B	Z	-3.446	-3.446	0	%100
103	M100	X	-1.806	-1.806	0	%100
104	M100	Z	-1.043	-1.043	0	%100
105	M105	X	-1.806	-1.806	0	%100
106	M105	Z	-1.043	-1.043	0	%100
107	M110	X	-7.225	-7.225	0	%100
108	M110	Z	-4.171	-4.171	0	%100
109	M121	X	-2.201	-2.201	0	%100
110	M121	Z	-1.271	-1.271	0	%100
111	M122	X	-8.804	-8.804	0	%100
112	M122	Z	-5.083	-5.083	0	%100
113	M123	X	-2.201	-2.201	0	%100
114	M123	Z	-1.271	-1.271	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[ft, %]	End Location[ft, %]
1	M1	X	-3.809	-3.809	0	%100
2	M1	Z	-6.597	-6.597	0	%100
3	M4	X	-1.289	-1.289	0	%100
4	M4	Z	-2.233	-2.233	0	%100
5	M10	X	-3.273	-3.273	0	%100
6	M10	Z	-5.67	-5.67	0	%100
7	MP3A	X	-3.446	-3.446	0	%100
8	MP3A	Z	-5.968	-5.968	0	%100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
9	MP4A	X	-3.446	-3.446	0	%100
10	MP4A	Z	-5.968	-5.968	0	%100
11	MP2A	X	-3.446	-3.446	0	%100
12	MP2A	Z	-5.968	-5.968	0	%100
13	MP1A	X	-3.446	-3.446	0	%100
14	MP1A	Z	-5.968	-5.968	0	%100
15	M43	X	-3.273	-3.273	0	%100
16	M43	Z	-5.67	-5.67	0	%100
17	M46	X	-6.529	-6.529	0	%100
18	M46	Z	-11.309	-11.309	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-3.625	-3.625	0	%100
22	M52B	Z	-6.279	-6.279	0	%100
23	M76	X	-2.176	-2.176	0	%100
24	M76	Z	-3.77	-3.77	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-2.176	-2.176	0	%100
30	M84	Z	-3.77	-3.77	0	%100
31	M85	X	-6.65	-6.65	0	%100
32	M85	Z	-11.518	-11.518	0	%100
33	M91	X	-7.004	-7.004	0	%100
34	M91	Z	-12.132	-12.132	0	%100
35	M34	X	-5.158	-5.158	0	%100
36	M34	Z	-8.934	-8.934	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M40	X	-3.625	-3.625	0	%100
44	M40	Z	-6.279	-6.279	0	%100
45	M41	X	-3.625	-3.625	0	%100
46	M41	Z	-6.279	-6.279	0	%100
47	M45	X	-8.705	-8.705	0	%100
48	M45	Z	-15.078	-15.078	0	%100
49	M46A	X	-6.65	-6.65	0	%100
50	M46A	Z	-11.518	-11.518	0	%100
51	M48	X	-7.004	-7.004	0	%100
52	M48	Z	-12.132	-12.132	0	%100
53	M50A	X	-8.705	-8.705	0	%100
54	M50A	Z	-15.078	-15.078	0	%100
55	M51C	X	-6.65	-6.65	0	%100
56	M51C	Z	-11.518	-11.518	0	%100
57	M53	X	-7.004	-7.004	0	%100
58	M53	Z	-12.132	-12.132	0	%100
59	M58A	X	-1.289	-1.289	0	%100
60	M58A	Z	-2.233	-2.233	0	%100
61	M59A	X	-3.273	-3.273	0	%100
62	M59A	Z	-5.67	-5.67	0	%100
63	M60	X	-3.273	-3.273	0	%100
64	M60	Z	-5.67	-5.67	0	%100
65	M61	X	-6.529	-6.529	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[ft.%]	End Location[ft.%]
66	M61	Z	-11.309	-11.309	0	%100
67	M64	X	-3.625	-3.625	0	%100
68	M64	Z	-6.279	-6.279	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	0	0	0	%100
71	M69	X	-2.176	-2.176	0	%100
72	M69	Z	-3.77	-3.77	0	%100
73	M70	X	-6.65	-6.65	0	%100
74	M70	Z	-11.518	-11.518	0	%100
75	M72	X	-7.004	-7.004	0	%100
76	M72	Z	-12.132	-12.132	0	%100
77	M74	X	-2.176	-2.176	0	%100
78	M74	Z	-3.77	-3.77	0	%100
79	M75	X	0	0	0	%100
80	M75	Z	0	0	0	%100
81	M77A	X	0	0	0	%100
82	M77A	Z	0	0	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100
85	MP3C	X	-3.446	-3.446	0	%100
86	MP3C	Z	-5.968	-5.968	0	%100
87	MP4C	X	-3.446	-3.446	0	%100
88	MP4C	Z	-5.968	-5.968	0	%100
89	MP2C	X	-3.446	-3.446	0	%100
90	MP2C	Z	-5.968	-5.968	0	%100
91	MP1C	X	-3.446	-3.446	0	%100
92	MP1C	Z	-5.968	-5.968	0	%100
93	M91A	X	-3.809	-3.809	0	%100
94	M91A	Z	-6.597	-6.597	0	%100
95	MP3B	X	-3.446	-3.446	0	%100
96	MP3B	Z	-5.968	-5.968	0	%100
97	MP4B	X	-3.446	-3.446	0	%100
98	MP4B	Z	-5.968	-5.968	0	%100
99	MP2B	X	-3.446	-3.446	0	%100
100	MP2B	Z	-5.968	-5.968	0	%100
101	MP1B	X	-3.446	-3.446	0	%100
102	MP1B	Z	-5.968	-5.968	0	%100
103	M100	X	-3.128	-3.128	0	%100
104	M100	Z	-5.419	-5.419	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	-3.128	-3.128	0	%100
108	M110	Z	-5.419	-5.419	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	-3.812	-3.812	0	%100
112	M122	Z	-6.603	-6.603	0	%100
113	M123	X	-3.812	-3.812	0	%100
114	M123	Z	-6.603	-6.603	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	-3.043	-3.043	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	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[ft, %]	End Location[ft, %]
5	M10	X	0	0	%100
6	M10	Z	-2.512	-2.512	%100
7	MP3A	X	0	0	%100
8	MP3A	Z	-2.447	-2.447	%100
9	MP4A	X	0	0	%100
10	MP4A	Z	-2.447	-2.447	%100
11	MP2A	X	0	0	%100
12	MP2A	Z	-2.447	-2.447	%100
13	MP1A	X	0	0	%100
14	MP1A	Z	-2.447	-2.447	%100
15	M43	X	0	0	%100
16	M43	Z	-2.512	-2.512	%100
17	M46	X	0	0	%100
18	M46	Z	-3.939	-3.939	%100
19	M51B	X	0	0	%100
20	M51B	Z	-.724	-.724	%100
21	M52B	X	0	0	%100
22	M52B	Z	-.724	-.724	%100
23	M76	X	0	0	%100
24	M76	Z	0	0	%100
25	M77	X	0	0	%100
26	M77	Z	-.983	-.983	%100
27	M80	X	0	0	%100
28	M80	Z	-1.026	-1.026	%100
29	M84	X	0	0	%100
30	M84	Z	0	0	%100
31	M85	X	0	0	%100
32	M85	Z	-.983	-.983	%100
33	M91	X	0	0	%100
34	M91	Z	-1.026	-1.026	%100
35	M34	X	0	0	%100
36	M34	Z	-2.304	-2.304	%100
37	M35	X	0	0	%100
38	M35	Z	-.628	-.628	%100
39	M36	X	0	0	%100
40	M36	Z	-.628	-.628	%100
41	M37	X	0	0	%100
42	M37	Z	-.985	-.985	%100
43	M40	X	0	0	%100
44	M40	Z	-.724	-.724	%100
45	M41	X	0	0	%100
46	M41	Z	-2.894	-2.894	%100
47	M45	X	0	0	%100
48	M45	Z	-2.905	-2.905	%100
49	M46A	X	0	0	%100
50	M46A	Z	-.983	-.983	%100
51	M48	X	0	0	%100
52	M48	Z	-1.026	-1.026	%100
53	M50A	X	0	0	%100
54	M50A	Z	-2.905	-2.905	%100
55	M51C	X	0	0	%100
56	M51C	Z	-3.932	-3.932	%100
57	M53	X	0	0	%100
58	M53	Z	-4.104	-4.104	%100
59	M58A	X	0	0	%100
60	M58A	Z	-2.304	-2.304	%100
61	M59A	X	0	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[ft,%]	End Location[ft,%]
62	M59A	Z	-.628	-.628	0 %100
63	M60	X	0	0	0 %100
64	M60	Z	-.628	-.628	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	-.985	-.985	0 %100
67	M64	X	0	0	0 %100
68	M64	Z	-2.894	-2.894	0 %100
69	M65	X	0	0	0 %100
70	M65	Z	-.724	-.724	0 %100
71	M69	X	0	0	0 %100
72	M69	Z	-2.905	-2.905	0 %100
73	M70	X	0	0	0 %100
74	M70	Z	-3.932	-3.932	0 %100
75	M72	X	0	0	0 %100
76	M72	Z	-4.104	-4.104	0 %100
77	M74	X	0	0	0 %100
78	M74	Z	-2.905	-2.905	0 %100
79	M75	X	0	0	0 %100
80	M75	Z	-.983	-.983	0 %100
81	M77A	X	0	0	0 %100
82	M77A	Z	-1.026	-1.026	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	-.761	-.761	0 %100
85	MP3C	X	0	0	0 %100
86	MP3C	Z	-2.447	-2.447	0 %100
87	MP4C	X	0	0	0 %100
88	MP4C	Z	-2.447	-2.447	0 %100
89	MP2C	X	0	0	0 %100
90	MP2C	Z	-2.447	-2.447	0 %100
91	MP1C	X	0	0	0 %100
92	MP1C	Z	-2.447	-2.447	0 %100
93	M91A	X	0	0	0 %100
94	M91A	Z	-.761	-.761	0 %100
95	MP3B	X	0	0	0 %100
96	MP3B	Z	-2.447	-2.447	0 %100
97	MP4B	X	0	0	0 %100
98	MP4B	Z	-2.447	-2.447	0 %100
99	MP2B	X	0	0	0 %100
100	MP2B	Z	-2.447	-2.447	0 %100
101	MP1B	X	0	0	0 %100
102	MP1B	Z	-2.447	-2.447	0 %100
103	M100	X	0	0	0 %100
104	M100	Z	-2.712	-2.712	0 %100
105	M105	X	0	0	0 %100
106	M105	Z	-.678	-.678	0 %100
107	M110	X	0	0	0 %100
108	M110	Z	-.678	-.678	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	-.676	-.676	0 %100
111	M122	X	0	0	0 %100
112	M122	Z	-.676	-.676	0 %100
113	M123	X	0	0	0 %100
114	M123	Z	-2.702	-2.702	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[ft,%]	End Location[ft,%]
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**Member Distributed Loads (BLC 54 : Structure Wi (30 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.141	1.141	0	%100
2	M1	Z	-1.977	-1.977	0	%100
3	M4	X	.384	.384	0	%100
4	M4	Z	-.665	-.665	0	%100
5	M10	X	.942	.942	0	%100
6	M10	Z	-1.632	-1.632	0	%100
7	MP3A	X	1.224	1.224	0	%100
8	MP3A	Z	-2.119	-2.119	0	%100
9	MP4A	X	1.224	1.224	0	%100
10	MP4A	Z	-2.119	-2.119	0	%100
11	MP2A	X	1.224	1.224	0	%100
12	MP2A	Z	-2.119	-2.119	0	%100
13	MP1A	X	1.224	1.224	0	%100
14	MP1A	Z	-2.119	-2.119	0	%100
15	M43	X	.942	.942	0	%100
16	M43	Z	-1.632	-1.632	0	%100
17	M46	X	1.477	1.477	0	%100
18	M46	Z	-2.559	-2.559	0	%100
19	M51B	X	1.085	1.085	0	%100
20	M51B	Z	-1.88	-1.88	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	.484	.484	0	%100
24	M76	Z	-.839	-.839	0	%100
25	M77	X	1.474	1.474	0	%100
26	M77	Z	-2.554	-2.554	0	%100
27	M80	X	1.539	1.539	0	%100
28	M80	Z	-2.666	-2.666	0	%100
29	M84	X	.484	.484	0	%100
30	M84	Z	-.839	-.839	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M34	X	.384	.384	0	%100
36	M34	Z	-.665	-.665	0	%100
37	M35	X	.942	.942	0	%100
38	M35	Z	-1.632	-1.632	0	%100
39	M36	X	.942	.942	0	%100
40	M36	Z	-1.632	-1.632	0	%100
41	M37	X	1.477	1.477	0	%100
42	M37	Z	-2.559	-2.559	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	1.085	1.085	0	%100
46	M41	Z	-1.88	-1.88	0	%100
47	M45	X	.484	.484	0	%100
48	M45	Z	-.839	-.839	0	%100
49	M46A	X	0	0	0	%100
50	M46A	Z	0	0	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	0	0	0	%100
53	M50A	X	.484	.484	0	%100
54	M50A	Z	-.839	-.839	0	%100
55	M51C	X	1.474	1.474	0	%100
56	M51C	Z	-2.554	-2.554	0	%100
57	M53	X	1.539	1.539	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[ft,%]	End Location[ft,%]
58	M53	Z	-2.666	-2.666	0 %100
59	M58A	X	1.536	1.536	0 %100
60	M58A	Z	-2.661	-2.661	0 %100
61	M59A	X	0	0	0 %100
62	M59A	Z	0	0	0 %100
63	M60	X	0	0	0 %100
64	M60	Z	0	0	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	0	0	0 %100
67	M64	X	1.085	1.085	0 %100
68	M64	Z	-1.88	-1.88	0 %100
69	M65	X	1.085	1.085	0 %100
70	M65	Z	-1.88	-1.88	0 %100
71	M69	X	1.937	1.937	0 %100
72	M69	Z	-3.354	-3.354	0 %100
73	M70	X	1.474	1.474	0 %100
74	M70	Z	-2.554	-2.554	0 %100
75	M72	X	1.539	1.539	0 %100
76	M72	Z	-2.666	-2.666	0 %100
77	M74	X	1.937	1.937	0 %100
78	M74	Z	-3.354	-3.354	0 %100
79	M75	X	1.474	1.474	0 %100
80	M75	Z	-2.554	-2.554	0 %100
81	M77A	X	1.539	1.539	0 %100
82	M77A	Z	-2.666	-2.666	0 %100
83	M82	X	1.141	1.141	0 %100
84	M82	Z	-1.977	-1.977	0 %100
85	MP3C	X	1.224	1.224	0 %100
86	MP3C	Z	-2.119	-2.119	0 %100
87	MP4C	X	1.224	1.224	0 %100
88	MP4C	Z	-2.119	-2.119	0 %100
89	MP2C	X	1.224	1.224	0 %100
90	MP2C	Z	-2.119	-2.119	0 %100
91	MP1C	X	1.224	1.224	0 %100
92	MP1C	Z	-2.119	-2.119	0 %100
93	M91A	X	0	0	0 %100
94	M91A	Z	0	0	0 %100
95	MP3B	X	1.224	1.224	0 %100
96	MP3B	Z	-2.119	-2.119	0 %100
97	MP4B	X	1.224	1.224	0 %100
98	MP4B	Z	-2.119	-2.119	0 %100
99	MP2B	X	1.224	1.224	0 %100
100	MP2B	Z	-2.119	-2.119	0 %100
101	MP1B	X	1.224	1.224	0 %100
102	MP1B	Z	-2.119	-2.119	0 %100
103	M100	X	1.017	1.017	0 %100
104	M100	Z	-1.762	-1.762	0 %100
105	M105	X	1.017	1.017	0 %100
106	M105	Z	-1.762	-1.762	0 %100
107	M110	X	0	0	0 %100
108	M110	Z	0	0	0 %100
109	M121	X	1.013	1.013	0 %100
110	M121	Z	-1.755	-1.755	0 %100
111	M122	X	0	0	0 %100
112	M122	Z	0	0	0 %100
113	M123	X	1.013	1.013	0 %100
114	M123	Z	-1.755	-1.755	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[ft, %]	End Location[ft, %]
1	M1	X	.659	.659	0	%100
2	M1	Z	-.38	-.38	0	%100
3	M4	X	1.996	1.996	0	%100
4	M4	Z	-1.152	-1.152	0	%100
5	M10	X	.544	.544	0	%100
6	M10	Z	-.314	-.314	0	%100
7	MP3A	X	2.119	2.119	0	%100
8	MP3A	Z	-1.224	-1.224	0	%100
9	MP4A	X	2.119	2.119	0	%100
10	MP4A	Z	-1.224	-1.224	0	%100
11	MP2A	X	2.119	2.119	0	%100
12	MP2A	Z	-1.224	-1.224	0	%100
13	MP1A	X	2.119	2.119	0	%100
14	MP1A	Z	-1.224	-1.224	0	%100
15	M43	X	.544	.544	0	%100
16	M43	Z	-.314	-.314	0	%100
17	M46	X	.853	.853	0	%100
18	M46	Z	-.492	-.492	0	%100
19	M51B	X	2.506	2.506	0	%100
20	M51B	Z	-1.447	-1.447	0	%100
21	M52B	X	.627	.627	0	%100
22	M52B	Z	-.362	-.362	0	%100
23	M76	X	2.516	2.516	0	%100
24	M76	Z	-1.452	-1.452	0	%100
25	M77	X	3.405	3.405	0	%100
26	M77	Z	-1.966	-1.966	0	%100
27	M80	X	3.555	3.555	0	%100
28	M80	Z	-2.052	-2.052	0	%100
29	M84	X	2.516	2.516	0	%100
30	M84	Z	-1.452	-1.452	0	%100
31	M85	X	.851	.851	0	%100
32	M85	Z	-.491	-.491	0	%100
33	M91	X	.889	.889	0	%100
34	M91	Z	-.513	-.513	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	2.176	2.176	0	%100
38	M35	Z	-1.256	-1.256	0	%100
39	M36	X	2.176	2.176	0	%100
40	M36	Z	-1.256	-1.256	0	%100
41	M37	X	3.412	3.412	0	%100
42	M37	Z	-1.97	-1.97	0	%100
43	M40	X	.627	.627	0	%100
44	M40	Z	-.362	-.362	0	%100
45	M41	X	.627	.627	0	%100
46	M41	Z	-.362	-.362	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	0	0	0	%100
49	M46A	X	.851	.851	0	%100
50	M46A	Z	-.491	-.491	0	%100
51	M48	X	.889	.889	0	%100
52	M48	Z	-.513	-.513	0	%100
53	M50A	X	0	0	0	%100
54	M50A	Z	0	0	0	%100
55	M51C	X	.851	.851	0	%100
56	M51C	Z	-.491	-.491	0	%100
57	M53	X	.889	.889	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[ft,%]	End Location[ft,%]
58	M53	Z	-.513	-.513	0 %100
59	M58A	X	1.996	1.996	0 %100
60	M58A	Z	-1.152	-1.152	0 %100
61	M59A	X	.544	.544	0 %100
62	M59A	Z	-.314	-.314	0 %100
63	M60	X	.544	.544	0 %100
64	M60	Z	-.314	-.314	0 %100
65	M61	X	.853	.853	0 %100
66	M61	Z	-.492	-.492	0 %100
67	M64	X	.627	.627	0 %100
68	M64	Z	-.362	-.362	0 %100
69	M65	X	2.506	2.506	0 %100
70	M65	Z	-1.447	-1.447	0 %100
71	M69	X	2.516	2.516	0 %100
72	M69	Z	-1.452	-1.452	0 %100
73	M70	X	.851	.851	0 %100
74	M70	Z	-.491	-.491	0 %100
75	M72	X	.889	.889	0 %100
76	M72	Z	-.513	-.513	0 %100
77	M74	X	2.516	2.516	0 %100
78	M74	Z	-1.452	-1.452	0 %100
79	M75	X	3.405	3.405	0 %100
80	M75	Z	-1.966	-1.966	0 %100
81	M77A	X	3.555	3.555	0 %100
82	M77A	Z	-2.052	-2.052	0 %100
83	M82	X	2.636	2.636	0 %100
84	M82	Z	-1.522	-1.522	0 %100
85	MP3C	X	2.119	2.119	0 %100
86	MP3C	Z	-1.224	-1.224	0 %100
87	MP4C	X	2.119	2.119	0 %100
88	MP4C	Z	-1.224	-1.224	0 %100
89	MP2C	X	2.119	2.119	0 %100
90	MP2C	Z	-1.224	-1.224	0 %100
91	MP1C	X	2.119	2.119	0 %100
92	MP1C	Z	-1.224	-1.224	0 %100
93	M91A	X	.659	.659	0 %100
94	M91A	Z	-.38	-.38	0 %100
95	MP3B	X	2.119	2.119	0 %100
96	MP3B	Z	-1.224	-1.224	0 %100
97	MP4B	X	2.119	2.119	0 %100
98	MP4B	Z	-1.224	-1.224	0 %100
99	MP2B	X	2.119	2.119	0 %100
100	MP2B	Z	-1.224	-1.224	0 %100
101	MP1B	X	2.119	2.119	0 %100
102	MP1B	Z	-1.224	-1.224	0 %100
103	M100	X	.587	.587	0 %100
104	M100	Z	-.339	-.339	0 %100
105	M105	X	2.349	2.349	0 %100
106	M105	Z	-1.356	-1.356	0 %100
107	M110	X	.587	.587	0 %100
108	M110	Z	-.339	-.339	0 %100
109	M121	X	2.34	2.34	0 %100
110	M121	Z	-1.351	-1.351	0 %100
111	M122	X	.585	.585	0 %100
112	M122	Z	-.338	-.338	0 %100
113	M123	X	.585	.585	0 %100
114	M123	Z	-.338	-.338	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[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	3.073	3.073	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	2.447	2.447	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	2.447	2.447	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	2.447	2.447	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	2.447	2.447	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	2.171	2.171	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	2.171	2.171	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	3.873	3.873	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	2.949	2.949	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	3.078	3.078	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	3.873	3.873	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	2.949	2.949	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	3.078	3.078	0	%100
34	M91	Z	0	0	0	%100
35	M34	X	.768	.768	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	1.884	1.884	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	1.884	1.884	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	2.955	2.955	0	%100
42	M37	Z	0	0	0	%100
43	M40	X	2.171	2.171	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	0	0	0	%100
47	M45	X	.968	.968	0	%100
48	M45	Z	0	0	0	%100
49	M46A	X	2.949	2.949	0	%100
50	M46A	Z	0	0	0	%100
51	M48	X	3.078	3.078	0	%100
52	M48	Z	0	0	0	%100
53	M50A	X	.968	.968	0	%100
54	M50A	Z	0	0	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	0	0	0	%100
57	M53	X	0	0	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
58	M53	Z	0	0	0	%100
59	M58A	X	.768	.768	0	%100
60	M58A	Z	0	0	0	%100
61	M59A	X	1.884	1.884	0	%100
62	M59A	Z	0	0	0	%100
63	M60	X	1.884	1.884	0	%100
64	M60	Z	0	0	0	%100
65	M61	X	2.955	2.955	0	%100
66	M61	Z	0	0	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	2.171	2.171	0	%100
70	M65	Z	0	0	0	%100
71	M69	X	.968	.968	0	%100
72	M69	Z	0	0	0	%100
73	M70	X	0	0	0	%100
74	M70	Z	0	0	0	%100
75	M72	X	0	0	0	%100
76	M72	Z	0	0	0	%100
77	M74	X	.968	.968	0	%100
78	M74	Z	0	0	0	%100
79	M75	X	2.949	2.949	0	%100
80	M75	Z	0	0	0	%100
81	M77A	X	3.078	3.078	0	%100
82	M77A	Z	0	0	0	%100
83	M82	X	2.283	2.283	0	%100
84	M82	Z	0	0	0	%100
85	MP3C	X	2.447	2.447	0	%100
86	MP3C	Z	0	0	0	%100
87	MP4C	X	2.447	2.447	0	%100
88	MP4C	Z	0	0	0	%100
89	MP2C	X	2.447	2.447	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	2.447	2.447	0	%100
92	MP1C	Z	0	0	0	%100
93	M91A	X	2.283	2.283	0	%100
94	M91A	Z	0	0	0	%100
95	MP3B	X	2.447	2.447	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	2.447	2.447	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	2.447	2.447	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	2.447	2.447	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	2.034	2.034	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	2.034	2.034	0	%100
108	M110	Z	0	0	0	%100
109	M121	X	2.027	2.027	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	2.027	2.027	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.659	.659	0	%100
2	M1	Z	.38	.38	0	%100
3	M4	X	1.996	1.996	0	%100
4	M4	Z	1.152	1.152	0	%100
5	M10	X	.544	.544	0	%100
6	M10	Z	.314	.314	0	%100
7	MP3A	X	2.119	2.119	0	%100
8	MP3A	Z	1.224	1.224	0	%100
9	MP4A	X	2.119	2.119	0	%100
10	MP4A	Z	1.224	1.224	0	%100
11	MP2A	X	2.119	2.119	0	%100
12	MP2A	Z	1.224	1.224	0	%100
13	MP1A	X	2.119	2.119	0	%100
14	MP1A	Z	1.224	1.224	0	%100
15	M43	X	.544	.544	0	%100
16	M43	Z	.314	.314	0	%100
17	M46	X	.853	.853	0	%100
18	M46	Z	.492	.492	0	%100
19	M51B	X	.627	.627	0	%100
20	M51B	Z	.362	.362	0	%100
21	M52B	X	2.506	2.506	0	%100
22	M52B	Z	1.447	1.447	0	%100
23	M76	X	2.516	2.516	0	%100
24	M76	Z	1.452	1.452	0	%100
25	M77	X	.851	.851	0	%100
26	M77	Z	.491	.491	0	%100
27	M80	X	.889	.889	0	%100
28	M80	Z	.513	.513	0	%100
29	M84	X	2.516	2.516	0	%100
30	M84	Z	1.452	1.452	0	%100
31	M85	X	3.405	3.405	0	%100
32	M85	Z	1.966	1.966	0	%100
33	M91	X	3.555	3.555	0	%100
34	M91	Z	2.052	2.052	0	%100
35	M34	X	1.996	1.996	0	%100
36	M34	Z	1.152	1.152	0	%100
37	M35	X	.544	.544	0	%100
38	M35	Z	.314	.314	0	%100
39	M36	X	.544	.544	0	%100
40	M36	Z	.314	.314	0	%100
41	M37	X	.853	.853	0	%100
42	M37	Z	.492	.492	0	%100
43	M40	X	2.506	2.506	0	%100
44	M40	Z	1.447	1.447	0	%100
45	M41	X	.627	.627	0	%100
46	M41	Z	.362	.362	0	%100
47	M45	X	2.516	2.516	0	%100
48	M45	Z	1.452	1.452	0	%100
49	M46A	X	3.405	3.405	0	%100
50	M46A	Z	1.966	1.966	0	%100
51	M48	X	3.555	3.555	0	%100
52	M48	Z	2.052	2.052	0	%100
53	M50A	X	2.516	2.516	0	%100
54	M50A	Z	1.452	1.452	0	%100
55	M51C	X	.851	.851	0	%100
56	M51C	Z	.491	.491	0	%100
57	M53	X	.889	.889	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[ft,%]	End Location[ft,%]
58	M53	Z	.513	.513	0 %100
59	M58A	X	0	0	0 %100
60	M58A	Z	0	0	0 %100
61	M59A	X	2.176	2.176	0 %100
62	M59A	Z	1.256	1.256	0 %100
63	M60	X	2.176	2.176	0 %100
64	M60	Z	1.256	1.256	0 %100
65	M61	X	3.412	3.412	0 %100
66	M61	Z	1.97	1.97	0 %100
67	M64	X	.627	.627	0 %100
68	M64	Z	.362	.362	0 %100
69	M65	X	.627	.627	0 %100
70	M65	Z	.362	.362	0 %100
71	M69	X	0	0	0 %100
72	M69	Z	0	0	0 %100
73	M70	X	.851	.851	0 %100
74	M70	Z	.491	.491	0 %100
75	M72	X	.889	.889	0 %100
76	M72	Z	.513	.513	0 %100
77	M74	X	0	0	0 %100
78	M74	Z	0	0	0 %100
79	M75	X	.851	.851	0 %100
80	M75	Z	.491	.491	0 %100
81	M77A	X	.889	.889	0 %100
82	M77A	Z	.513	.513	0 %100
83	M82	X	.659	.659	0 %100
84	M82	Z	.38	.38	0 %100
85	MP3C	X	2.119	2.119	0 %100
86	MP3C	Z	1.224	1.224	0 %100
87	MP4C	X	2.119	2.119	0 %100
88	MP4C	Z	1.224	1.224	0 %100
89	MP2C	X	2.119	2.119	0 %100
90	MP2C	Z	1.224	1.224	0 %100
91	MP1C	X	2.119	2.119	0 %100
92	MP1C	Z	1.224	1.224	0 %100
93	M91A	X	2.636	2.636	0 %100
94	M91A	Z	1.522	1.522	0 %100
95	MP3B	X	2.119	2.119	0 %100
96	MP3B	Z	1.224	1.224	0 %100
97	MP4B	X	2.119	2.119	0 %100
98	MP4B	Z	1.224	1.224	0 %100
99	MP2B	X	2.119	2.119	0 %100
100	MP2B	Z	1.224	1.224	0 %100
101	MP1B	X	2.119	2.119	0 %100
102	MP1B	Z	1.224	1.224	0 %100
103	M100	X	.587	.587	0 %100
104	M100	Z	.339	.339	0 %100
105	M105	X	.587	.587	0 %100
106	M105	Z	.339	.339	0 %100
107	M110	X	2.349	2.349	0 %100
108	M110	Z	1.356	1.356	0 %100
109	M121	X	.585	.585	0 %100
110	M121	Z	.338	.338	0 %100
111	M122	X	2.34	2.34	0 %100
112	M122	Z	1.351	1.351	0 %100
113	M123	X	.585	.585	0 %100
114	M123	Z	.338	.338	0 %100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.141	1.141	0	%100
2	M1	Z	1.977	1.977	0	%100
3	M4	X	.384	.384	0	%100
4	M4	Z	.665	.665	0	%100
5	M10	X	.942	.942	0	%100
6	M10	Z	1.632	1.632	0	%100
7	MP3A	X	1.224	1.224	0	%100
8	MP3A	Z	2.119	2.119	0	%100
9	MP4A	X	1.224	1.224	0	%100
10	MP4A	Z	2.119	2.119	0	%100
11	MP2A	X	1.224	1.224	0	%100
12	MP2A	Z	2.119	2.119	0	%100
13	MP1A	X	1.224	1.224	0	%100
14	MP1A	Z	2.119	2.119	0	%100
15	M43	X	.942	.942	0	%100
16	M43	Z	1.632	1.632	0	%100
17	M46	X	1.477	1.477	0	%100
18	M46	Z	2.559	2.559	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	1.085	1.085	0	%100
22	M52B	Z	1.88	1.88	0	%100
23	M76	X	.484	.484	0	%100
24	M76	Z	.839	.839	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	.484	.484	0	%100
30	M84	Z	.839	.839	0	%100
31	M85	X	1.474	1.474	0	%100
32	M85	Z	2.554	2.554	0	%100
33	M91	X	1.539	1.539	0	%100
34	M91	Z	2.666	2.666	0	%100
35	M34	X	1.536	1.536	0	%100
36	M34	Z	2.661	2.661	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M40	X	1.085	1.085	0	%100
44	M40	Z	1.88	1.88	0	%100
45	M41	X	1.085	1.085	0	%100
46	M41	Z	1.88	1.88	0	%100
47	M45	X	1.937	1.937	0	%100
48	M45	Z	3.354	3.354	0	%100
49	M46A	X	1.474	1.474	0	%100
50	M46A	Z	2.554	2.554	0	%100
51	M48	X	1.539	1.539	0	%100
52	M48	Z	2.666	2.666	0	%100
53	M50A	X	1.937	1.937	0	%100
54	M50A	Z	3.354	3.354	0	%100
55	M51C	X	1.474	1.474	0	%100
56	M51C	Z	2.554	2.554	0	%100
57	M53	X	1.539	1.539	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[ft,%]	End Location[ft,%]
58	M53	Z	2.666	2.666	0 %100
59	M58A	X	.384	.384	0 %100
60	M58A	Z	.665	.665	0 %100
61	M59A	X	.942	.942	0 %100
62	M59A	Z	1.632	1.632	0 %100
63	M60	X	.942	.942	0 %100
64	M60	Z	1.632	1.632	0 %100
65	M61	X	1.477	1.477	0 %100
66	M61	Z	2.559	2.559	0 %100
67	M64	X	1.085	1.085	0 %100
68	M64	Z	1.88	1.88	0 %100
69	M65	X	0	0	0 %100
70	M65	Z	0	0	0 %100
71	M69	X	.484	.484	0 %100
72	M69	Z	.839	.839	0 %100
73	M70	X	1.474	1.474	0 %100
74	M70	Z	2.554	2.554	0 %100
75	M72	X	1.539	1.539	0 %100
76	M72	Z	2.666	2.666	0 %100
77	M74	X	.484	.484	0 %100
78	M74	Z	.839	.839	0 %100
79	M75	X	0	0	0 %100
80	M75	Z	0	0	0 %100
81	M77A	X	0	0	0 %100
82	M77A	Z	0	0	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	0	0	0 %100
85	MP3C	X	1.224	1.224	0 %100
86	MP3C	Z	2.119	2.119	0 %100
87	MP4C	X	1.224	1.224	0 %100
88	MP4C	Z	2.119	2.119	0 %100
89	MP2C	X	1.224	1.224	0 %100
90	MP2C	Z	2.119	2.119	0 %100
91	MP1C	X	1.224	1.224	0 %100
92	MP1C	Z	2.119	2.119	0 %100
93	M91A	X	1.141	1.141	0 %100
94	M91A	Z	1.977	1.977	0 %100
95	MP3B	X	1.224	1.224	0 %100
96	MP3B	Z	2.119	2.119	0 %100
97	MP4B	X	1.224	1.224	0 %100
98	MP4B	Z	2.119	2.119	0 %100
99	MP2B	X	1.224	1.224	0 %100
100	MP2B	Z	2.119	2.119	0 %100
101	MP1B	X	1.224	1.224	0 %100
102	MP1B	Z	2.119	2.119	0 %100
103	M100	X	1.017	1.017	0 %100
104	M100	Z	1.762	1.762	0 %100
105	M105	X	0	0	0 %100
106	M105	Z	0	0	0 %100
107	M110	X	1.017	1.017	0 %100
108	M110	Z	1.762	1.762	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	0	0	0 %100
111	M122	X	1.013	1.013	0 %100
112	M122	Z	1.755	1.755	0 %100
113	M123	X	1.013	1.013	0 %100
114	M123	Z	1.755	1.755	0 %100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	3.043	3.043	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	2.512	2.512	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	2.447	2.447	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	2.447	2.447	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	2.447	2.447	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	2.447	2.447	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	2.512	2.512	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	3.939	3.939	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	.724	.724	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	.724	.724	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	.983	.983	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	1.026	1.026	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	.983	.983	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	1.026	1.026	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	2.304	2.304	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	.628	.628	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	.628	.628	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	.985	.985	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	.724	.724	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	2.894	2.894	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	2.905	2.905	0	%100
49	M46A	X	0	0	0	%100
50	M46A	Z	.983	.983	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	1.026	1.026	0	%100
53	M50A	X	0	0	0	%100
54	M50A	Z	2.905	2.905	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	3.932	3.932	0	%100
57	M53	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	4.104	4.104	0 %100
59	M58A	X	0	0	0 %100
60	M58A	Z	2.304	2.304	0 %100
61	M59A	X	0	0	0 %100
62	M59A	Z	.628	.628	0 %100
63	M60	X	0	0	0 %100
64	M60	Z	.628	.628	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	.985	.985	0 %100
67	M64	X	0	0	0 %100
68	M64	Z	2.894	2.894	0 %100
69	M65	X	0	0	0 %100
70	M65	Z	.724	.724	0 %100
71	M69	X	0	0	0 %100
72	M69	Z	2.905	2.905	0 %100
73	M70	X	0	0	0 %100
74	M70	Z	3.932	3.932	0 %100
75	M72	X	0	0	0 %100
76	M72	Z	4.104	4.104	0 %100
77	M74	X	0	0	0 %100
78	M74	Z	2.905	2.905	0 %100
79	M75	X	0	0	0 %100
80	M75	Z	.983	.983	0 %100
81	M77A	X	0	0	0 %100
82	M77A	Z	1.026	1.026	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	.761	.761	0 %100
85	MP3C	X	0	0	0 %100
86	MP3C	Z	2.447	2.447	0 %100
87	MP4C	X	0	0	0 %100
88	MP4C	Z	2.447	2.447	0 %100
89	MP2C	X	0	0	0 %100
90	MP2C	Z	2.447	2.447	0 %100
91	MP1C	X	0	0	0 %100
92	MP1C	Z	2.447	2.447	0 %100
93	M91A	X	0	0	0 %100
94	M91A	Z	.761	.761	0 %100
95	MP3B	X	0	0	0 %100
96	MP3B	Z	2.447	2.447	0 %100
97	MP4B	X	0	0	0 %100
98	MP4B	Z	2.447	2.447	0 %100
99	MP2B	X	0	0	0 %100
100	MP2B	Z	2.447	2.447	0 %100
101	MP1B	X	0	0	0 %100
102	MP1B	Z	2.447	2.447	0 %100
103	M100	X	0	0	0 %100
104	M100	Z	2.712	2.712	0 %100
105	M105	X	0	0	0 %100
106	M105	Z	.678	.678	0 %100
107	M110	X	0	0	0 %100
108	M110	Z	.678	.678	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	.676	.676	0 %100
111	M122	X	0	0	0 %100
112	M122	Z	.676	.676	0 %100
113	M123	X	0	0	0 %100
114	M123	Z	2.702	2.702	0 %100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.141	-1.141	0	%100
2	M1	Z	1.977	1.977	0	%100
3	M4	X	-.384	-.384	0	%100
4	M4	Z	.665	.665	0	%100
5	M10	X	-.942	-.942	0	%100
6	M10	Z	1.632	1.632	0	%100
7	MP3A	X	-1.224	-1.224	0	%100
8	MP3A	Z	2.119	2.119	0	%100
9	MP4A	X	-1.224	-1.224	0	%100
10	MP4A	Z	2.119	2.119	0	%100
11	MP2A	X	-1.224	-1.224	0	%100
12	MP2A	Z	2.119	2.119	0	%100
13	MP1A	X	-1.224	-1.224	0	%100
14	MP1A	Z	2.119	2.119	0	%100
15	M43	X	-.942	-.942	0	%100
16	M43	Z	1.632	1.632	0	%100
17	M46	X	-1.477	-1.477	0	%100
18	M46	Z	2.559	2.559	0	%100
19	M51B	X	-1.085	-1.085	0	%100
20	M51B	Z	1.88	1.88	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-.484	-.484	0	%100
24	M76	Z	.839	.839	0	%100
25	M77	X	-1.474	-1.474	0	%100
26	M77	Z	2.554	2.554	0	%100
27	M80	X	-1.539	-1.539	0	%100
28	M80	Z	2.666	2.666	0	%100
29	M84	X	-.484	-.484	0	%100
30	M84	Z	.839	.839	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M34	X	-.384	-.384	0	%100
36	M34	Z	.665	.665	0	%100
37	M35	X	-.942	-.942	0	%100
38	M35	Z	1.632	1.632	0	%100
39	M36	X	-.942	-.942	0	%100
40	M36	Z	1.632	1.632	0	%100
41	M37	X	-1.477	-1.477	0	%100
42	M37	Z	2.559	2.559	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	-1.085	-1.085	0	%100
46	M41	Z	1.88	1.88	0	%100
47	M45	X	-.484	-.484	0	%100
48	M45	Z	.839	.839	0	%100
49	M46A	X	0	0	0	%100
50	M46A	Z	0	0	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	0	0	0	%100
53	M50A	X	-.484	-.484	0	%100
54	M50A	Z	.839	.839	0	%100
55	M51C	X	-1.474	-1.474	0	%100
56	M51C	Z	2.554	2.554	0	%100
57	M53	X	-1.539	-1.539	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	2.666	2.666	0 %100
59	M58A	X	-1.536	-1.536	0 %100
60	M58A	Z	2.661	2.661	0 %100
61	M59A	X	0	0	0 %100
62	M59A	Z	0	0	0 %100
63	M60	X	0	0	0 %100
64	M60	Z	0	0	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	0	0	0 %100
67	M64	X	-1.085	-1.085	0 %100
68	M64	Z	1.88	1.88	0 %100
69	M65	X	-1.085	-1.085	0 %100
70	M65	Z	1.88	1.88	0 %100
71	M69	X	-1.937	-1.937	0 %100
72	M69	Z	3.354	3.354	0 %100
73	M70	X	-1.474	-1.474	0 %100
74	M70	Z	2.554	2.554	0 %100
75	M72	X	-1.539	-1.539	0 %100
76	M72	Z	2.666	2.666	0 %100
77	M74	X	-1.937	-1.937	0 %100
78	M74	Z	3.354	3.354	0 %100
79	M75	X	-1.474	-1.474	0 %100
80	M75	Z	2.554	2.554	0 %100
81	M77A	X	-1.539	-1.539	0 %100
82	M77A	Z	2.666	2.666	0 %100
83	M82	X	-1.141	-1.141	0 %100
84	M82	Z	1.977	1.977	0 %100
85	MP3C	X	-1.224	-1.224	0 %100
86	MP3C	Z	2.119	2.119	0 %100
87	MP4C	X	-1.224	-1.224	0 %100
88	MP4C	Z	2.119	2.119	0 %100
89	MP2C	X	-1.224	-1.224	0 %100
90	MP2C	Z	2.119	2.119	0 %100
91	MP1C	X	-1.224	-1.224	0 %100
92	MP1C	Z	2.119	2.119	0 %100
93	M91A	X	0	0	0 %100
94	M91A	Z	0	0	0 %100
95	MP3B	X	-1.224	-1.224	0 %100
96	MP3B	Z	2.119	2.119	0 %100
97	MP4B	X	-1.224	-1.224	0 %100
98	MP4B	Z	2.119	2.119	0 %100
99	MP2B	X	-1.224	-1.224	0 %100
100	MP2B	Z	2.119	2.119	0 %100
101	MP1B	X	-1.224	-1.224	0 %100
102	MP1B	Z	2.119	2.119	0 %100
103	M100	X	-1.017	-1.017	0 %100
104	M100	Z	1.762	1.762	0 %100
105	M105	X	-1.017	-1.017	0 %100
106	M105	Z	1.762	1.762	0 %100
107	M110	X	0	0	0 %100
108	M110	Z	0	0	0 %100
109	M121	X	-1.013	-1.013	0 %100
110	M121	Z	1.755	1.755	0 %100
111	M122	X	0	0	0 %100
112	M122	Z	0	0	0 %100
113	M123	X	-1.013	-1.013	0 %100
114	M123	Z	1.755	1.755	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.659	-.659	0	%100
2	M1	Z	.38	.38	0	%100
3	M4	X	-1.996	-1.996	0	%100
4	M4	Z	1.152	1.152	0	%100
5	M10	X	-.544	-.544	0	%100
6	M10	Z	.314	.314	0	%100
7	MP3A	X	-2.119	-2.119	0	%100
8	MP3A	Z	1.224	1.224	0	%100
9	MP4A	X	-2.119	-2.119	0	%100
10	MP4A	Z	1.224	1.224	0	%100
11	MP2A	X	-2.119	-2.119	0	%100
12	MP2A	Z	1.224	1.224	0	%100
13	MP1A	X	-2.119	-2.119	0	%100
14	MP1A	Z	1.224	1.224	0	%100
15	M43	X	-.544	-.544	0	%100
16	M43	Z	.314	.314	0	%100
17	M46	X	-.853	-.853	0	%100
18	M46	Z	.492	.492	0	%100
19	M51B	X	-2.506	-2.506	0	%100
20	M51B	Z	1.447	1.447	0	%100
21	M52B	X	-.627	-.627	0	%100
22	M52B	Z	.362	.362	0	%100
23	M76	X	-2.516	-2.516	0	%100
24	M76	Z	1.452	1.452	0	%100
25	M77	X	-3.405	-3.405	0	%100
26	M77	Z	1.966	1.966	0	%100
27	M80	X	-3.555	-3.555	0	%100
28	M80	Z	2.052	2.052	0	%100
29	M84	X	-2.516	-2.516	0	%100
30	M84	Z	1.452	1.452	0	%100
31	M85	X	-.851	-.851	0	%100
32	M85	Z	.491	.491	0	%100
33	M91	X	-.889	-.889	0	%100
34	M91	Z	.513	.513	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-2.176	-2.176	0	%100
38	M35	Z	1.256	1.256	0	%100
39	M36	X	-2.176	-2.176	0	%100
40	M36	Z	1.256	1.256	0	%100
41	M37	X	-3.412	-3.412	0	%100
42	M37	Z	1.97	1.97	0	%100
43	M40	X	-.627	-.627	0	%100
44	M40	Z	.362	.362	0	%100
45	M41	X	-.627	-.627	0	%100
46	M41	Z	.362	.362	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	0	0	0	%100
49	M46A	X	-.851	-.851	0	%100
50	M46A	Z	.491	.491	0	%100
51	M48	X	-.889	-.889	0	%100
52	M48	Z	.513	.513	0	%100
53	M50A	X	0	0	0	%100
54	M50A	Z	0	0	0	%100
55	M51C	X	-.851	-.851	0	%100
56	M51C	Z	.491	.491	0	%100
57	M53	X	-.889	-.889	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	.513	.513	0 %100
59	M58A	X	-1.996	-1.996	0 %100
60	M58A	Z	1.152	1.152	0 %100
61	M59A	X	-.544	-.544	0 %100
62	M59A	Z	.314	.314	0 %100
63	M60	X	-.544	-.544	0 %100
64	M60	Z	.314	.314	0 %100
65	M61	X	-.853	-.853	0 %100
66	M61	Z	.492	.492	0 %100
67	M64	X	-.627	-.627	0 %100
68	M64	Z	.362	.362	0 %100
69	M65	X	-2.506	-2.506	0 %100
70	M65	Z	1.447	1.447	0 %100
71	M69	X	-2.516	-2.516	0 %100
72	M69	Z	1.452	1.452	0 %100
73	M70	X	-.851	-.851	0 %100
74	M70	Z	.491	.491	0 %100
75	M72	X	-.889	-.889	0 %100
76	M72	Z	.513	.513	0 %100
77	M74	X	-2.516	-2.516	0 %100
78	M74	Z	1.452	1.452	0 %100
79	M75	X	-3.405	-3.405	0 %100
80	M75	Z	1.966	1.966	0 %100
81	M77A	X	-3.555	-3.555	0 %100
82	M77A	Z	2.052	2.052	0 %100
83	M82	X	-2.636	-2.636	0 %100
84	M82	Z	1.522	1.522	0 %100
85	MP3C	X	-2.119	-2.119	0 %100
86	MP3C	Z	1.224	1.224	0 %100
87	MP4C	X	-2.119	-2.119	0 %100
88	MP4C	Z	1.224	1.224	0 %100
89	MP2C	X	-2.119	-2.119	0 %100
90	MP2C	Z	1.224	1.224	0 %100
91	MP1C	X	-2.119	-2.119	0 %100
92	MP1C	Z	1.224	1.224	0 %100
93	M91A	X	-.659	-.659	0 %100
94	M91A	Z	.38	.38	0 %100
95	MP3B	X	-2.119	-2.119	0 %100
96	MP3B	Z	1.224	1.224	0 %100
97	MP4B	X	-2.119	-2.119	0 %100
98	MP4B	Z	1.224	1.224	0 %100
99	MP2B	X	-2.119	-2.119	0 %100
100	MP2B	Z	1.224	1.224	0 %100
101	MP1B	X	-2.119	-2.119	0 %100
102	MP1B	Z	1.224	1.224	0 %100
103	M100	X	-.587	-.587	0 %100
104	M100	Z	.339	.339	0 %100
105	M105	X	-2.349	-2.349	0 %100
106	M105	Z	1.356	1.356	0 %100
107	M110	X	-.587	-.587	0 %100
108	M110	Z	.339	.339	0 %100
109	M121	X	-2.34	-2.34	0 %100
110	M121	Z	1.351	1.351	0 %100
111	M122	X	-.585	-.585	0 %100
112	M122	Z	.338	.338	0 %100
113	M123	X	-.585	-.585	0 %100
114	M123	Z	.338	.338	0 %100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-3.073	-3.073	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-2.447	-2.447	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-2.447	-2.447	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-2.447	-2.447	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-2.447	-2.447	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-2.171	-2.171	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-2.171	-2.171	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-3.873	-3.873	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-2.949	-2.949	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-3.078	-3.078	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-3.873	-3.873	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-2.949	-2.949	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-3.078	-3.078	0	%100
34	M91	Z	0	0	0	%100
35	M34	X	-.768	-.768	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-1.884	-1.884	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	-1.884	-1.884	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	-2.955	-2.955	0	%100
42	M37	Z	0	0	0	%100
43	M40	X	-2.171	-2.171	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	0	0	0	%100
47	M45	X	-.968	-.968	0	%100
48	M45	Z	0	0	0	%100
49	M46A	X	-2.949	-2.949	0	%100
50	M46A	Z	0	0	0	%100
51	M48	X	-3.078	-3.078	0	%100
52	M48	Z	0	0	0	%100
53	M50A	X	-.968	-.968	0	%100
54	M50A	Z	0	0	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	0	0	0	%100
57	M53	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
58	M53	Z	0	0	0	%100
59	M58A	X	-0.768	-0.768	0	%100
60	M58A	Z	0	0	0	%100
61	M59A	X	-1.884	-1.884	0	%100
62	M59A	Z	0	0	0	%100
63	M60	X	-1.884	-1.884	0	%100
64	M60	Z	0	0	0	%100
65	M61	X	-2.955	-2.955	0	%100
66	M61	Z	0	0	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	-2.171	-2.171	0	%100
70	M65	Z	0	0	0	%100
71	M69	X	-0.968	-0.968	0	%100
72	M69	Z	0	0	0	%100
73	M70	X	0	0	0	%100
74	M70	Z	0	0	0	%100
75	M72	X	0	0	0	%100
76	M72	Z	0	0	0	%100
77	M74	X	-0.968	-0.968	0	%100
78	M74	Z	0	0	0	%100
79	M75	X	-2.949	-2.949	0	%100
80	M75	Z	0	0	0	%100
81	M77A	X	-3.078	-3.078	0	%100
82	M77A	Z	0	0	0	%100
83	M82	X	-2.283	-2.283	0	%100
84	M82	Z	0	0	0	%100
85	MP3C	X	-2.447	-2.447	0	%100
86	MP3C	Z	0	0	0	%100
87	MP4C	X	-2.447	-2.447	0	%100
88	MP4C	Z	0	0	0	%100
89	MP2C	X	-2.447	-2.447	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	-2.447	-2.447	0	%100
92	MP1C	Z	0	0	0	%100
93	M91A	X	-2.283	-2.283	0	%100
94	M91A	Z	0	0	0	%100
95	MP3B	X	-2.447	-2.447	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	-2.447	-2.447	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	-2.447	-2.447	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-2.447	-2.447	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	-2.034	-2.034	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	-2.034	-2.034	0	%100
108	M110	Z	0	0	0	%100
109	M121	X	-2.027	-2.027	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	-2.027	-2.027	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	0	0	0	%100
114	M123	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[ft, %]	End Location[ft, %]
1	M1	X	-.659	-.659	0	%100
2	M1	Z	-.38	-.38	0	%100
3	M4	X	-1.996	-1.996	0	%100
4	M4	Z	-1.152	-1.152	0	%100
5	M10	X	-.544	-.544	0	%100
6	M10	Z	-.314	-.314	0	%100
7	MP3A	X	-2.119	-2.119	0	%100
8	MP3A	Z	-1.224	-1.224	0	%100
9	MP4A	X	-2.119	-2.119	0	%100
10	MP4A	Z	-1.224	-1.224	0	%100
11	MP2A	X	-2.119	-2.119	0	%100
12	MP2A	Z	-1.224	-1.224	0	%100
13	MP1A	X	-2.119	-2.119	0	%100
14	MP1A	Z	-1.224	-1.224	0	%100
15	M43	X	-.544	-.544	0	%100
16	M43	Z	-.314	-.314	0	%100
17	M46	X	-.853	-.853	0	%100
18	M46	Z	-.492	-.492	0	%100
19	M51B	X	-.627	-.627	0	%100
20	M51B	Z	-.362	-.362	0	%100
21	M52B	X	-2.506	-2.506	0	%100
22	M52B	Z	-1.447	-1.447	0	%100
23	M76	X	-2.516	-2.516	0	%100
24	M76	Z	-1.452	-1.452	0	%100
25	M77	X	-.851	-.851	0	%100
26	M77	Z	-.491	-.491	0	%100
27	M80	X	-.889	-.889	0	%100
28	M80	Z	-.513	-.513	0	%100
29	M84	X	-2.516	-2.516	0	%100
30	M84	Z	-1.452	-1.452	0	%100
31	M85	X	-3.405	-3.405	0	%100
32	M85	Z	-1.966	-1.966	0	%100
33	M91	X	-3.555	-3.555	0	%100
34	M91	Z	-2.052	-2.052	0	%100
35	M34	X	-1.996	-1.996	0	%100
36	M34	Z	-1.152	-1.152	0	%100
37	M35	X	-.544	-.544	0	%100
38	M35	Z	-.314	-.314	0	%100
39	M36	X	-.544	-.544	0	%100
40	M36	Z	-.314	-.314	0	%100
41	M37	X	-.853	-.853	0	%100
42	M37	Z	-.492	-.492	0	%100
43	M40	X	-2.506	-2.506	0	%100
44	M40	Z	-1.447	-1.447	0	%100
45	M41	X	-.627	-.627	0	%100
46	M41	Z	-.362	-.362	0	%100
47	M45	X	-2.516	-2.516	0	%100
48	M45	Z	-1.452	-1.452	0	%100
49	M46A	X	-3.405	-3.405	0	%100
50	M46A	Z	-1.966	-1.966	0	%100
51	M48	X	-3.555	-3.555	0	%100
52	M48	Z	-2.052	-2.052	0	%100
53	M50A	X	-2.516	-2.516	0	%100
54	M50A	Z	-1.452	-1.452	0	%100
55	M51C	X	-.851	-.851	0	%100
56	M51C	Z	-.491	-.491	0	%100
57	M53	X	-.889	-.889	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[ft,%]	End Location[ft,%]
58	M53	Z	-513	-513	0 %100
59	M58A	X	0	0	0 %100
60	M58A	Z	0	0	0 %100
61	M59A	X	-2.176	-2.176	0 %100
62	M59A	Z	-1.256	-1.256	0 %100
63	M60	X	-2.176	-2.176	0 %100
64	M60	Z	-1.256	-1.256	0 %100
65	M61	X	-3.412	-3.412	0 %100
66	M61	Z	-1.97	-1.97	0 %100
67	M64	X	-627	-627	0 %100
68	M64	Z	-362	-362	0 %100
69	M65	X	-627	-627	0 %100
70	M65	Z	-362	-362	0 %100
71	M69	X	0	0	0 %100
72	M69	Z	0	0	0 %100
73	M70	X	-851	-851	0 %100
74	M70	Z	-491	-491	0 %100
75	M72	X	-889	-889	0 %100
76	M72	Z	-513	-513	0 %100
77	M74	X	0	0	0 %100
78	M74	Z	0	0	0 %100
79	M75	X	-851	-851	0 %100
80	M75	Z	-491	-491	0 %100
81	M77A	X	-889	-889	0 %100
82	M77A	Z	-513	-513	0 %100
83	M82	X	-659	-659	0 %100
84	M82	Z	-38	-38	0 %100
85	MP3C	X	-2.119	-2.119	0 %100
86	MP3C	Z	-1.224	-1.224	0 %100
87	MP4C	X	-2.119	-2.119	0 %100
88	MP4C	Z	-1.224	-1.224	0 %100
89	MP2C	X	-2.119	-2.119	0 %100
90	MP2C	Z	-1.224	-1.224	0 %100
91	MP1C	X	-2.119	-2.119	0 %100
92	MP1C	Z	-1.224	-1.224	0 %100
93	M91A	X	-2.636	-2.636	0 %100
94	M91A	Z	-1.522	-1.522	0 %100
95	MP3B	X	-2.119	-2.119	0 %100
96	MP3B	Z	-1.224	-1.224	0 %100
97	MP4B	X	-2.119	-2.119	0 %100
98	MP4B	Z	-1.224	-1.224	0 %100
99	MP2B	X	-2.119	-2.119	0 %100
100	MP2B	Z	-1.224	-1.224	0 %100
101	MP1B	X	-2.119	-2.119	0 %100
102	MP1B	Z	-1.224	-1.224	0 %100
103	M100	X	-587	-587	0 %100
104	M100	Z	-339	-339	0 %100
105	M105	X	-587	-587	0 %100
106	M105	Z	-339	-339	0 %100
107	M110	X	-2.349	-2.349	0 %100
108	M110	Z	-1.356	-1.356	0 %100
109	M121	X	-585	-585	0 %100
110	M121	Z	-338	-338	0 %100
111	M122	X	-2.34	-2.34	0 %100
112	M122	Z	-1.351	-1.351	0 %100
113	M123	X	-585	-585	0 %100
114	M123	Z	-338	-338	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[ft, %]	End Location[ft, %]
1	M1	X	-1.141	-1.141	0	%100
2	M1	Z	-1.977	-1.977	0	%100
3	M4	X	-.384	-.384	0	%100
4	M4	Z	-.665	-.665	0	%100
5	M10	X	-.942	-.942	0	%100
6	M10	Z	-1.632	-1.632	0	%100
7	MP3A	X	-1.224	-1.224	0	%100
8	MP3A	Z	-2.119	-2.119	0	%100
9	MP4A	X	-1.224	-1.224	0	%100
10	MP4A	Z	-2.119	-2.119	0	%100
11	MP2A	X	-1.224	-1.224	0	%100
12	MP2A	Z	-2.119	-2.119	0	%100
13	MP1A	X	-1.224	-1.224	0	%100
14	MP1A	Z	-2.119	-2.119	0	%100
15	M43	X	-.942	-.942	0	%100
16	M43	Z	-1.632	-1.632	0	%100
17	M46	X	-1.477	-1.477	0	%100
18	M46	Z	-2.559	-2.559	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-1.085	-1.085	0	%100
22	M52B	Z	-1.88	-1.88	0	%100
23	M76	X	-.484	-.484	0	%100
24	M76	Z	-.839	-.839	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-.484	-.484	0	%100
30	M84	Z	-.839	-.839	0	%100
31	M85	X	-1.474	-1.474	0	%100
32	M85	Z	-2.554	-2.554	0	%100
33	M91	X	-1.539	-1.539	0	%100
34	M91	Z	-2.666	-2.666	0	%100
35	M34	X	-1.536	-1.536	0	%100
36	M34	Z	-2.661	-2.661	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M40	X	-1.085	-1.085	0	%100
44	M40	Z	-1.88	-1.88	0	%100
45	M41	X	-1.085	-1.085	0	%100
46	M41	Z	-1.88	-1.88	0	%100
47	M45	X	-1.937	-1.937	0	%100
48	M45	Z	-3.354	-3.354	0	%100
49	M46A	X	-1.474	-1.474	0	%100
50	M46A	Z	-2.554	-2.554	0	%100
51	M48	X	-1.539	-1.539	0	%100
52	M48	Z	-2.666	-2.666	0	%100
53	M50A	X	-1.937	-1.937	0	%100
54	M50A	Z	-3.354	-3.354	0	%100
55	M51C	X	-1.474	-1.474	0	%100
56	M51C	Z	-2.554	-2.554	0	%100
57	M53	X	-1.539	-1.539	0	%100





Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
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**Member Distributed Loads (BLC 64 : Structure Wi (330 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	-2.666	-2.666	0 %100
59	M58A	X	-.384	-.384	0 %100
60	M58A	Z	-.665	-.665	0 %100
61	M59A	X	-.942	-.942	0 %100
62	M59A	Z	-1.632	-1.632	0 %100
63	M60	X	-.942	-.942	0 %100
64	M60	Z	-1.632	-1.632	0 %100
65	M61	X	-1.477	-1.477	0 %100
66	M61	Z	-2.559	-2.559	0 %100
67	M64	X	-1.085	-1.085	0 %100
68	M64	Z	-1.88	-1.88	0 %100
69	M65	X	0	0	0 %100
70	M65	Z	0	0	0 %100
71	M69	X	-.484	-.484	0 %100
72	M69	Z	-.839	-.839	0 %100
73	M70	X	-1.474	-1.474	0 %100
74	M70	Z	-2.554	-2.554	0 %100
75	M72	X	-1.539	-1.539	0 %100
76	M72	Z	-2.666	-2.666	0 %100
77	M74	X	-.484	-.484	0 %100
78	M74	Z	-.839	-.839	0 %100
79	M75	X	0	0	0 %100
80	M75	Z	0	0	0 %100
81	M77A	X	0	0	0 %100
82	M77A	Z	0	0	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	0	0	0 %100
85	MP3C	X	-1.224	-1.224	0 %100
86	MP3C	Z	-2.119	-2.119	0 %100
87	MP4C	X	-1.224	-1.224	0 %100
88	MP4C	Z	-2.119	-2.119	0 %100
89	MP2C	X	-1.224	-1.224	0 %100
90	MP2C	Z	-2.119	-2.119	0 %100
91	MP1C	X	-1.224	-1.224	0 %100
92	MP1C	Z	-2.119	-2.119	0 %100
93	M91A	X	-1.141	-1.141	0 %100
94	M91A	Z	-1.977	-1.977	0 %100
95	MP3B	X	-1.224	-1.224	0 %100
96	MP3B	Z	-2.119	-2.119	0 %100
97	MP4B	X	-1.224	-1.224	0 %100
98	MP4B	Z	-2.119	-2.119	0 %100
99	MP2B	X	-1.224	-1.224	0 %100
100	MP2B	Z	-2.119	-2.119	0 %100
101	MP1B	X	-1.224	-1.224	0 %100
102	MP1B	Z	-2.119	-2.119	0 %100
103	M100	X	-1.017	-1.017	0 %100
104	M100	Z	-1.762	-1.762	0 %100
105	M105	X	0	0	0 %100
106	M105	Z	0	0	0 %100
107	M110	X	-1.017	-1.017	0 %100
108	M110	Z	-1.762	-1.762	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	0	0	0 %100
111	M122	X	-1.013	-1.013	0 %100
112	M122	Z	-1.755	-1.755	0 %100
113	M123	X	-1.013	-1.013	0 %100
114	M123	Z	-1.755	-1.755	0 %100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-.668	-.668	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-.574	-.574	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-.453	-.453	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-.453	-.453	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-.453	-.453	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-.453	-.453	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-.574	-.574	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-1.145	-1.145	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-.159	-.159	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-.159	-.159	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-.291	-.291	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-.307	-.307	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-.291	-.291	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-.307	-.307	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	-.509	-.509	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	-.143	-.143	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	-.143	-.143	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	-.286	-.286	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-.159	-.159	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	-.636	-.636	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-.859	-.859	0	%100
49	M46A	X	0	0	0	%100
50	M46A	Z	-.291	-.291	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	-.307	-.307	0	%100
53	M50A	X	0	0	0	%100
54	M50A	Z	-.859	-.859	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	-1.166	-1.166	0	%100
57	M53	X	0	0	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[ft,%]	End Location[ft,%]
58	M53	Z	-1.228	-1.228	0 %100
59	M58A	X	0	0	0 %100
60	M58A	Z	-.509	-.509	0 %100
61	M59A	X	0	0	0 %100
62	M59A	Z	-.143	-.143	0 %100
63	M60	X	0	0	0 %100
64	M60	Z	-.143	-.143	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	-.286	-.286	0 %100
67	M64	X	0	0	0 %100
68	M64	Z	-.636	-.636	0 %100
69	M65	X	0	0	0 %100
70	M65	Z	-.159	-.159	0 %100
71	M69	X	0	0	0 %100
72	M69	Z	-.859	-.859	0 %100
73	M70	X	0	0	0 %100
74	M70	Z	-1.166	-1.166	0 %100
75	M72	X	0	0	0 %100
76	M72	Z	-1.228	-1.228	0 %100
77	M74	X	0	0	0 %100
78	M74	Z	-.859	-.859	0 %100
79	M75	X	0	0	0 %100
80	M75	Z	-.291	-.291	0 %100
81	M77A	X	0	0	0 %100
82	M77A	Z	-.307	-.307	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	-.167	-.167	0 %100
85	MP3C	X	0	0	0 %100
86	MP3C	Z	-.453	-.453	0 %100
87	MP4C	X	0	0	0 %100
88	MP4C	Z	-.453	-.453	0 %100
89	MP2C	X	0	0	0 %100
90	MP2C	Z	-.453	-.453	0 %100
91	MP1C	X	0	0	0 %100
92	MP1C	Z	-.453	-.453	0 %100
93	M91A	X	0	0	0 %100
94	M91A	Z	-.167	-.167	0 %100
95	MP3B	X	0	0	0 %100
96	MP3B	Z	-.453	-.453	0 %100
97	MP4B	X	0	0	0 %100
98	MP4B	Z	-.453	-.453	0 %100
99	MP2B	X	0	0	0 %100
100	MP2B	Z	-.453	-.453	0 %100
101	MP1B	X	0	0	0 %100
102	MP1B	Z	-.453	-.453	0 %100
103	M100	X	0	0	0 %100
104	M100	Z	-.548	-.548	0 %100
105	M105	X	0	0	0 %100
106	M105	Z	-.137	-.137	0 %100
107	M110	X	0	0	0 %100
108	M110	Z	-.137	-.137	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	-.167	-.167	0 %100
111	M122	X	0	0	0 %100
112	M122	Z	-.167	-.167	0 %100
113	M123	X	0	0	0 %100
114	M123	Z	-.668	-.668	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.25	.25	0	%100
2	M1	Z	-.434	-.434	0	%100
3	M4	X	.085	.085	0	%100
4	M4	Z	-.147	-.147	0	%100
5	M10	X	.215	.215	0	%100
6	M10	Z	-.373	-.373	0	%100
7	MP3A	X	.227	.227	0	%100
8	MP3A	Z	-.392	-.392	0	%100
9	MP4A	X	.227	.227	0	%100
10	MP4A	Z	-.392	-.392	0	%100
11	MP2A	X	.227	.227	0	%100
12	MP2A	Z	-.392	-.392	0	%100
13	MP1A	X	.227	.227	0	%100
14	MP1A	Z	-.392	-.392	0	%100
15	M43	X	.215	.215	0	%100
16	M43	Z	-.373	-.373	0	%100
17	M46	X	.429	.429	0	%100
18	M46	Z	-.743	-.743	0	%100
19	M51B	X	.238	.238	0	%100
20	M51B	Z	-.413	-.413	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	.143	.143	0	%100
24	M76	Z	-.248	-.248	0	%100
25	M77	X	.437	.437	0	%100
26	M77	Z	-.757	-.757	0	%100
27	M80	X	.461	.461	0	%100
28	M80	Z	-.798	-.798	0	%100
29	M84	X	.143	.143	0	%100
30	M84	Z	-.248	-.248	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M34	X	.085	.085	0	%100
36	M34	Z	-.147	-.147	0	%100
37	M35	X	.215	.215	0	%100
38	M35	Z	-.373	-.373	0	%100
39	M36	X	.215	.215	0	%100
40	M36	Z	-.373	-.373	0	%100
41	M37	X	.429	.429	0	%100
42	M37	Z	-.743	-.743	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	.238	.238	0	%100
46	M41	Z	-.413	-.413	0	%100
47	M45	X	.143	.143	0	%100
48	M45	Z	-.248	-.248	0	%100
49	M46A	X	0	0	0	%100
50	M46A	Z	0	0	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	0	0	0	%100
53	M50A	X	.143	.143	0	%100
54	M50A	Z	-.248	-.248	0	%100
55	M51C	X	.437	.437	0	%100
56	M51C	Z	-.757	-.757	0	%100
57	M53	X	.461	.461	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M53	Z	-.798	-.798	0 %100
59	M58A	X	.339	.339	0 %100
60	M58A	Z	-.587	-.587	0 %100
61	M59A	X	0	0	0 %100
62	M59A	Z	0	0	0 %100
63	M60	X	0	0	0 %100
64	M60	Z	0	0	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	0	0	0 %100
67	M64	X	.238	.238	0 %100
68	M64	Z	-.413	-.413	0 %100
69	M65	X	.238	.238	0 %100
70	M65	Z	-.413	-.413	0 %100
71	M69	X	.572	.572	0 %100
72	M69	Z	-.991	-.991	0 %100
73	M70	X	.437	.437	0 %100
74	M70	Z	-.757	-.757	0 %100
75	M72	X	.461	.461	0 %100
76	M72	Z	-.798	-.798	0 %100
77	M74	X	.572	.572	0 %100
78	M74	Z	-.991	-.991	0 %100
79	M75	X	.437	.437	0 %100
80	M75	Z	-.757	-.757	0 %100
81	M77A	X	.461	.461	0 %100
82	M77A	Z	-.798	-.798	0 %100
83	M82	X	.25	.25	0 %100
84	M82	Z	-.434	-.434	0 %100
85	MP3C	X	.227	.227	0 %100
86	MP3C	Z	-.392	-.392	0 %100
87	MP4C	X	.227	.227	0 %100
88	MP4C	Z	-.392	-.392	0 %100
89	MP2C	X	.227	.227	0 %100
90	MP2C	Z	-.392	-.392	0 %100
91	MP1C	X	.227	.227	0 %100
92	MP1C	Z	-.392	-.392	0 %100
93	M91A	X	0	0	0 %100
94	M91A	Z	0	0	0 %100
95	MP3B	X	.227	.227	0 %100
96	MP3B	Z	-.392	-.392	0 %100
97	MP4B	X	.227	.227	0 %100
98	MP4B	Z	-.392	-.392	0 %100
99	MP2B	X	.227	.227	0 %100
100	MP2B	Z	-.392	-.392	0 %100
101	MP1B	X	.227	.227	0 %100
102	MP1B	Z	-.392	-.392	0 %100
103	M100	X	.206	.206	0 %100
104	M100	Z	-.356	-.356	0 %100
105	M105	X	.206	.206	0 %100
106	M105	Z	-.356	-.356	0 %100
107	M110	X	0	0	0 %100
108	M110	Z	0	0	0 %100
109	M121	X	.251	.251	0 %100
110	M121	Z	-.434	-.434	0 %100
111	M122	X	0	0	0 %100
112	M122	Z	0	0	0 %100
113	M123	X	.251	.251	0 %100
114	M123	Z	-.434	-.434	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.145	.145	0	%100
2	M1	Z	-.083	-.083	0	%100
3	M4	X	.441	.441	0	%100
4	M4	Z	-.254	-.254	0	%100
5	M10	X	.124	.124	0	%100
6	M10	Z	-.072	-.072	0	%100
7	MP3A	X	.392	.392	0	%100
8	MP3A	Z	-.227	-.227	0	%100
9	MP4A	X	.392	.392	0	%100
10	MP4A	Z	-.227	-.227	0	%100
11	MP2A	X	.392	.392	0	%100
12	MP2A	Z	-.227	-.227	0	%100
13	MP1A	X	.392	.392	0	%100
14	MP1A	Z	-.227	-.227	0	%100
15	M43	X	.124	.124	0	%100
16	M43	Z	-.072	-.072	0	%100
17	M46	X	.248	.248	0	%100
18	M46	Z	-.143	-.143	0	%100
19	M51B	X	.55	.55	0	%100
20	M51B	Z	-.318	-.318	0	%100
21	M52B	X	.138	.138	0	%100
22	M52B	Z	-.079	-.079	0	%100
23	M76	X	.743	.743	0	%100
24	M76	Z	-.429	-.429	0	%100
25	M77	X	1.01	1.01	0	%100
26	M77	Z	-.583	-.583	0	%100
27	M80	X	1.063	1.063	0	%100
28	M80	Z	-.614	-.614	0	%100
29	M84	X	.743	.743	0	%100
30	M84	Z	-.429	-.429	0	%100
31	M85	X	.252	.252	0	%100
32	M85	Z	-.146	-.146	0	%100
33	M91	X	.266	.266	0	%100
34	M91	Z	-.153	-.153	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	.497	.497	0	%100
38	M35	Z	-.287	-.287	0	%100
39	M36	X	.497	.497	0	%100
40	M36	Z	-.287	-.287	0	%100
41	M37	X	.991	.991	0	%100
42	M37	Z	-.572	-.572	0	%100
43	M40	X	.138	.138	0	%100
44	M40	Z	-.079	-.079	0	%100
45	M41	X	.138	.138	0	%100
46	M41	Z	-.079	-.079	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	0	0	0	%100
49	M46A	X	.252	.252	0	%100
50	M46A	Z	-.146	-.146	0	%100
51	M48	X	.266	.266	0	%100
52	M48	Z	-.153	-.153	0	%100
53	M50A	X	0	0	0	%100
54	M50A	Z	0	0	0	%100
55	M51C	X	.252	.252	0	%100
56	M51C	Z	-.146	-.146	0	%100
57	M53	X	.266	.266	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	-.153	-.153	0 %100
59	M58A	X	.441	.441	0 %100
60	M58A	Z	-.254	-.254	0 %100
61	M59A	X	.124	.124	0 %100
62	M59A	Z	-.072	-.072	0 %100
63	M60	X	.124	.124	0 %100
64	M60	Z	-.072	-.072	0 %100
65	M61	X	.248	.248	0 %100
66	M61	Z	-.143	-.143	0 %100
67	M64	X	.138	.138	0 %100
68	M64	Z	-.079	-.079	0 %100
69	M65	X	.55	.55	0 %100
70	M65	Z	-.318	-.318	0 %100
71	M69	X	.743	.743	0 %100
72	M69	Z	-.429	-.429	0 %100
73	M70	X	.252	.252	0 %100
74	M70	Z	-.146	-.146	0 %100
75	M72	X	.266	.266	0 %100
76	M72	Z	-.153	-.153	0 %100
77	M74	X	.743	.743	0 %100
78	M74	Z	-.429	-.429	0 %100
79	M75	X	1.01	1.01	0 %100
80	M75	Z	-.583	-.583	0 %100
81	M77A	X	1.063	1.063	0 %100
82	M77A	Z	-.614	-.614	0 %100
83	M82	X	.578	.578	0 %100
84	M82	Z	-.334	-.334	0 %100
85	MP3C	X	.392	.392	0 %100
86	MP3C	Z	-.227	-.227	0 %100
87	MP4C	X	.392	.392	0 %100
88	MP4C	Z	-.227	-.227	0 %100
89	MP2C	X	.392	.392	0 %100
90	MP2C	Z	-.227	-.227	0 %100
91	MP1C	X	.392	.392	0 %100
92	MP1C	Z	-.227	-.227	0 %100
93	M91A	X	.145	.145	0 %100
94	M91A	Z	-.083	-.083	0 %100
95	MP3B	X	.392	.392	0 %100
96	MP3B	Z	-.227	-.227	0 %100
97	MP4B	X	.392	.392	0 %100
98	MP4B	Z	-.227	-.227	0 %100
99	MP2B	X	.392	.392	0 %100
100	MP2B	Z	-.227	-.227	0 %100
101	MP1B	X	.392	.392	0 %100
102	MP1B	Z	-.227	-.227	0 %100
103	M100	X	.119	.119	0 %100
104	M100	Z	-.069	-.069	0 %100
105	M105	X	.475	.475	0 %100
106	M105	Z	-.274	-.274	0 %100
107	M110	X	.119	.119	0 %100
108	M110	Z	-.069	-.069	0 %100
109	M121	X	.579	.579	0 %100
110	M121	Z	-.334	-.334	0 %100
111	M122	X	.145	.145	0 %100
112	M122	Z	-.084	-.084	0 %100
113	M123	X	.145	.145	0 %100
114	M123	Z	-.084	-.084	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[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	.678	.678	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	.453	.453	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	.453	.453	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	.453	.453	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	.453	.453	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	.477	.477	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.477	.477	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	1.145	1.145	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	.874	.874	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	.921	.921	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	1.145	1.145	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	.874	.874	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	.921	.921	0	%100
34	M91	Z	0	0	0	%100
35	M34	X	.17	.17	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	.43	.43	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	.43	.43	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	.859	.859	0	%100
42	M37	Z	0	0	0	%100
43	M40	X	.477	.477	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	0	0	0	%100
47	M45	X	.286	.286	0	%100
48	M45	Z	0	0	0	%100
49	M46A	X	.874	.874	0	%100
50	M46A	Z	0	0	0	%100
51	M48	X	.921	.921	0	%100
52	M48	Z	0	0	0	%100
53	M50A	X	.286	.286	0	%100
54	M50A	Z	0	0	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	0	0	0	%100
57	M53	X	0	0	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
58	M53	Z	0	0	0	%100
59	M58A	X	.17	.17	0	%100
60	M58A	Z	0	0	0	%100
61	M59A	X	.43	.43	0	%100
62	M59A	Z	0	0	0	%100
63	M60	X	.43	.43	0	%100
64	M60	Z	0	0	0	%100
65	M61	X	.859	.859	0	%100
66	M61	Z	0	0	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	.477	.477	0	%100
70	M65	Z	0	0	0	%100
71	M69	X	.286	.286	0	%100
72	M69	Z	0	0	0	%100
73	M70	X	0	0	0	%100
74	M70	Z	0	0	0	%100
75	M72	X	0	0	0	%100
76	M72	Z	0	0	0	%100
77	M74	X	.286	.286	0	%100
78	M74	Z	0	0	0	%100
79	M75	X	.874	.874	0	%100
80	M75	Z	0	0	0	%100
81	M77A	X	.921	.921	0	%100
82	M77A	Z	0	0	0	%100
83	M82	X	.501	.501	0	%100
84	M82	Z	0	0	0	%100
85	MP3C	X	.453	.453	0	%100
86	MP3C	Z	0	0	0	%100
87	MP4C	X	.453	.453	0	%100
88	MP4C	Z	0	0	0	%100
89	MP2C	X	.453	.453	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	.453	.453	0	%100
92	MP1C	Z	0	0	0	%100
93	M91A	X	.501	.501	0	%100
94	M91A	Z	0	0	0	%100
95	MP3B	X	.453	.453	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	.453	.453	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	.453	.453	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	.453	.453	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	.411	.411	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	.411	.411	0	%100
108	M110	Z	0	0	0	%100
109	M121	X	.501	.501	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	.501	.501	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.145	.145	0	%100
2	M1	Z	.083	.083	0	%100
3	M4	X	.441	.441	0	%100
4	M4	Z	.254	.254	0	%100
5	M10	X	.124	.124	0	%100
6	M10	Z	.072	.072	0	%100
7	MP3A	X	.392	.392	0	%100
8	MP3A	Z	.227	.227	0	%100
9	MP4A	X	.392	.392	0	%100
10	MP4A	Z	.227	.227	0	%100
11	MP2A	X	.392	.392	0	%100
12	MP2A	Z	.227	.227	0	%100
13	MP1A	X	.392	.392	0	%100
14	MP1A	Z	.227	.227	0	%100
15	M43	X	.124	.124	0	%100
16	M43	Z	.072	.072	0	%100
17	M46	X	.248	.248	0	%100
18	M46	Z	.143	.143	0	%100
19	M51B	X	.138	.138	0	%100
20	M51B	Z	.079	.079	0	%100
21	M52B	X	.55	.55	0	%100
22	M52B	Z	.318	.318	0	%100
23	M76	X	.743	.743	0	%100
24	M76	Z	.429	.429	0	%100
25	M77	X	.252	.252	0	%100
26	M77	Z	.146	.146	0	%100
27	M80	X	.266	.266	0	%100
28	M80	Z	.153	.153	0	%100
29	M84	X	.743	.743	0	%100
30	M84	Z	.429	.429	0	%100
31	M85	X	1.01	1.01	0	%100
32	M85	Z	.583	.583	0	%100
33	M91	X	1.063	1.063	0	%100
34	M91	Z	.614	.614	0	%100
35	M34	X	.441	.441	0	%100
36	M34	Z	.254	.254	0	%100
37	M35	X	.124	.124	0	%100
38	M35	Z	.072	.072	0	%100
39	M36	X	.124	.124	0	%100
40	M36	Z	.072	.072	0	%100
41	M37	X	.248	.248	0	%100
42	M37	Z	.143	.143	0	%100
43	M40	X	.55	.55	0	%100
44	M40	Z	.318	.318	0	%100
45	M41	X	.138	.138	0	%100
46	M41	Z	.079	.079	0	%100
47	M45	X	.743	.743	0	%100
48	M45	Z	.429	.429	0	%100
49	M46A	X	1.01	1.01	0	%100
50	M46A	Z	.583	.583	0	%100
51	M48	X	1.063	1.063	0	%100
52	M48	Z	.614	.614	0	%100
53	M50A	X	.743	.743	0	%100
54	M50A	Z	.429	.429	0	%100
55	M51C	X	.252	.252	0	%100
56	M51C	Z	.146	.146	0	%100
57	M53	X	.266	.266	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[ft,%]	End Location[ft,%]
58	M53	Z	.153	.153	0 %100
59	M58A	X	0	0	0 %100
60	M58A	Z	0	0	0 %100
61	M59A	X	.497	.497	0 %100
62	M59A	Z	.287	.287	0 %100
63	M60	X	.497	.497	0 %100
64	M60	Z	.287	.287	0 %100
65	M61	X	.991	.991	0 %100
66	M61	Z	.572	.572	0 %100
67	M64	X	.138	.138	0 %100
68	M64	Z	.079	.079	0 %100
69	M65	X	.138	.138	0 %100
70	M65	Z	.079	.079	0 %100
71	M69	X	0	0	0 %100
72	M69	Z	0	0	0 %100
73	M70	X	.252	.252	0 %100
74	M70	Z	.146	.146	0 %100
75	M72	X	.266	.266	0 %100
76	M72	Z	.153	.153	0 %100
77	M74	X	0	0	0 %100
78	M74	Z	0	0	0 %100
79	M75	X	.252	.252	0 %100
80	M75	Z	.146	.146	0 %100
81	M77A	X	.266	.266	0 %100
82	M77A	Z	.153	.153	0 %100
83	M82	X	.145	.145	0 %100
84	M82	Z	.083	.083	0 %100
85	MP3C	X	.392	.392	0 %100
86	MP3C	Z	.227	.227	0 %100
87	MP4C	X	.392	.392	0 %100
88	MP4C	Z	.227	.227	0 %100
89	MP2C	X	.392	.392	0 %100
90	MP2C	Z	.227	.227	0 %100
91	MP1C	X	.392	.392	0 %100
92	MP1C	Z	.227	.227	0 %100
93	M91A	X	.578	.578	0 %100
94	M91A	Z	.334	.334	0 %100
95	MP3B	X	.392	.392	0 %100
96	MP3B	Z	.227	.227	0 %100
97	MP4B	X	.392	.392	0 %100
98	MP4B	Z	.227	.227	0 %100
99	MP2B	X	.392	.392	0 %100
100	MP2B	Z	.227	.227	0 %100
101	MP1B	X	.392	.392	0 %100
102	MP1B	Z	.227	.227	0 %100
103	M100	X	.119	.119	0 %100
104	M100	Z	.069	.069	0 %100
105	M105	X	.119	.119	0 %100
106	M105	Z	.069	.069	0 %100
107	M110	X	.475	.475	0 %100
108	M110	Z	.274	.274	0 %100
109	M121	X	.145	.145	0 %100
110	M121	Z	.084	.084	0 %100
111	M122	X	.579	.579	0 %100
112	M122	Z	.334	.334	0 %100
113	M123	X	.145	.145	0 %100
114	M123	Z	.084	.084	0 %100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

**Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.25	.25	0	%100
2	M1	Z	.434	.434	0	%100
3	M4	X	.085	.085	0	%100
4	M4	Z	.147	.147	0	%100
5	M10	X	.215	.215	0	%100
6	M10	Z	.373	.373	0	%100
7	MP3A	X	.227	.227	0	%100
8	MP3A	Z	.392	.392	0	%100
9	MP4A	X	.227	.227	0	%100
10	MP4A	Z	.392	.392	0	%100
11	MP2A	X	.227	.227	0	%100
12	MP2A	Z	.392	.392	0	%100
13	MP1A	X	.227	.227	0	%100
14	MP1A	Z	.392	.392	0	%100
15	M43	X	.215	.215	0	%100
16	M43	Z	.373	.373	0	%100
17	M46	X	.429	.429	0	%100
18	M46	Z	.743	.743	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.238	.238	0	%100
22	M52B	Z	.413	.413	0	%100
23	M76	X	.143	.143	0	%100
24	M76	Z	.248	.248	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	.143	.143	0	%100
30	M84	Z	.248	.248	0	%100
31	M85	X	.437	.437	0	%100
32	M85	Z	.757	.757	0	%100
33	M91	X	.461	.461	0	%100
34	M91	Z	.798	.798	0	%100
35	M34	X	.339	.339	0	%100
36	M34	Z	.587	.587	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M40	X	.238	.238	0	%100
44	M40	Z	.413	.413	0	%100
45	M41	X	.238	.238	0	%100
46	M41	Z	.413	.413	0	%100
47	M45	X	.572	.572	0	%100
48	M45	Z	.991	.991	0	%100
49	M46A	X	.437	.437	0	%100
50	M46A	Z	.757	.757	0	%100
51	M48	X	.461	.461	0	%100
52	M48	Z	.798	.798	0	%100
53	M50A	X	.572	.572	0	%100
54	M50A	Z	.991	.991	0	%100
55	M51C	X	.437	.437	0	%100
56	M51C	Z	.757	.757	0	%100
57	M53	X	.461	.461	0	%100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
 Checked By: DX

**Member Distributed Loads (BLC 70 : Structure Wm (150 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	.798	.798	0 %100
59	M58A	X	.085	.085	0 %100
60	M58A	Z	.147	.147	0 %100
61	M59A	X	.215	.215	0 %100
62	M59A	Z	.373	.373	0 %100
63	M60	X	.215	.215	0 %100
64	M60	Z	.373	.373	0 %100
65	M61	X	.429	.429	0 %100
66	M61	Z	.743	.743	0 %100
67	M64	X	.238	.238	0 %100
68	M64	Z	.413	.413	0 %100
69	M65	X	0	0	0 %100
70	M65	Z	0	0	0 %100
71	M69	X	.143	.143	0 %100
72	M69	Z	.248	.248	0 %100
73	M70	X	.437	.437	0 %100
74	M70	Z	.757	.757	0 %100
75	M72	X	.461	.461	0 %100
76	M72	Z	.798	.798	0 %100
77	M74	X	.143	.143	0 %100
78	M74	Z	.248	.248	0 %100
79	M75	X	0	0	0 %100
80	M75	Z	0	0	0 %100
81	M77A	X	0	0	0 %100
82	M77A	Z	0	0	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	0	0	0 %100
85	MP3C	X	.227	.227	0 %100
86	MP3C	Z	.392	.392	0 %100
87	MP4C	X	.227	.227	0 %100
88	MP4C	Z	.392	.392	0 %100
89	MP2C	X	.227	.227	0 %100
90	MP2C	Z	.392	.392	0 %100
91	MP1C	X	.227	.227	0 %100
92	MP1C	Z	.392	.392	0 %100
93	M91A	X	.25	.25	0 %100
94	M91A	Z	.434	.434	0 %100
95	MP3B	X	.227	.227	0 %100
96	MP3B	Z	.392	.392	0 %100
97	MP4B	X	.227	.227	0 %100
98	MP4B	Z	.392	.392	0 %100
99	MP2B	X	.227	.227	0 %100
100	MP2B	Z	.392	.392	0 %100
101	MP1B	X	.227	.227	0 %100
102	MP1B	Z	.392	.392	0 %100
103	M100	X	.206	.206	0 %100
104	M100	Z	.356	.356	0 %100
105	M105	X	0	0	0 %100
106	M105	Z	0	0	0 %100
107	M110	X	.206	.206	0 %100
108	M110	Z	.356	.356	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	0	0	0 %100
111	M122	X	.251	.251	0 %100
112	M122	Z	.434	.434	0 %100
113	M123	X	.251	.251	0 %100
114	M123	Z	.434	.434	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[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	.668	.668	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	.574	.574	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.453	.453	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	.453	.453	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	.453	.453	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	.453	.453	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	.574	.574	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	1.145	1.145	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	.159	.159	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	.159	.159	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	.291	.291	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	.307	.307	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	.291	.291	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	.307	.307	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	.509	.509	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	.143	.143	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	.143	.143	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	.286	.286	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	.159	.159	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	.636	.636	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	.859	.859	0	%100
49	M46A	X	0	0	0	%100
50	M46A	Z	.291	.291	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	.307	.307	0	%100
53	M50A	X	0	0	0	%100
54	M50A	Z	.859	.859	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	1.166	1.166	0	%100
57	M53	X	0	0	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[ft,%]	End Location[ft,%]
58	M53	Z	1.228	1.228	0 %100
59	M58A	X	0	0	0 %100
60	M58A	Z	.509	.509	0 %100
61	M59A	X	0	0	0 %100
62	M59A	Z	.143	.143	0 %100
63	M60	X	0	0	0 %100
64	M60	Z	.143	.143	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	.286	.286	0 %100
67	M64	X	0	0	0 %100
68	M64	Z	.636	.636	0 %100
69	M65	X	0	0	0 %100
70	M65	Z	.159	.159	0 %100
71	M69	X	0	0	0 %100
72	M69	Z	.859	.859	0 %100
73	M70	X	0	0	0 %100
74	M70	Z	1.166	1.166	0 %100
75	M72	X	0	0	0 %100
76	M72	Z	1.228	1.228	0 %100
77	M74	X	0	0	0 %100
78	M74	Z	.859	.859	0 %100
79	M75	X	0	0	0 %100
80	M75	Z	.291	.291	0 %100
81	M77A	X	0	0	0 %100
82	M77A	Z	.307	.307	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	.167	.167	0 %100
85	MP3C	X	0	0	0 %100
86	MP3C	Z	.453	.453	0 %100
87	MP4C	X	0	0	0 %100
88	MP4C	Z	.453	.453	0 %100
89	MP2C	X	0	0	0 %100
90	MP2C	Z	.453	.453	0 %100
91	MP1C	X	0	0	0 %100
92	MP1C	Z	.453	.453	0 %100
93	M91A	X	0	0	0 %100
94	M91A	Z	.167	.167	0 %100
95	MP3B	X	0	0	0 %100
96	MP3B	Z	.453	.453	0 %100
97	MP4B	X	0	0	0 %100
98	MP4B	Z	.453	.453	0 %100
99	MP2B	X	0	0	0 %100
100	MP2B	Z	.453	.453	0 %100
101	MP1B	X	0	0	0 %100
102	MP1B	Z	.453	.453	0 %100
103	M100	X	0	0	0 %100
104	M100	Z	.548	.548	0 %100
105	M105	X	0	0	0 %100
106	M105	Z	.137	.137	0 %100
107	M110	X	0	0	0 %100
108	M110	Z	.137	.137	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	.167	.167	0 %100
111	M122	X	0	0	0 %100
112	M122	Z	.167	.167	0 %100
113	M123	X	0	0	0 %100
114	M123	Z	.668	.668	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[ft, %]	End Location[ft, %]
1	M1	X	-.25	-.25	0	%100
2	M1	Z	.434	.434	0	%100
3	M4	X	-.085	-.085	0	%100
4	M4	Z	.147	.147	0	%100
5	M10	X	-.215	-.215	0	%100
6	M10	Z	.373	.373	0	%100
7	MP3A	X	-.227	-.227	0	%100
8	MP3A	Z	.392	.392	0	%100
9	MP4A	X	-.227	-.227	0	%100
10	MP4A	Z	.392	.392	0	%100
11	MP2A	X	-.227	-.227	0	%100
12	MP2A	Z	.392	.392	0	%100
13	MP1A	X	-.227	-.227	0	%100
14	MP1A	Z	.392	.392	0	%100
15	M43	X	-.215	-.215	0	%100
16	M43	Z	.373	.373	0	%100
17	M46	X	-.429	-.429	0	%100
18	M46	Z	.743	.743	0	%100
19	M51B	X	-.238	-.238	0	%100
20	M51B	Z	.413	.413	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-.143	-.143	0	%100
24	M76	Z	.248	.248	0	%100
25	M77	X	-.437	-.437	0	%100
26	M77	Z	.757	.757	0	%100
27	M80	X	-.461	-.461	0	%100
28	M80	Z	.798	.798	0	%100
29	M84	X	-.143	-.143	0	%100
30	M84	Z	.248	.248	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M34	X	-.085	-.085	0	%100
36	M34	Z	.147	.147	0	%100
37	M35	X	-.215	-.215	0	%100
38	M35	Z	.373	.373	0	%100
39	M36	X	-.215	-.215	0	%100
40	M36	Z	.373	.373	0	%100
41	M37	X	-.429	-.429	0	%100
42	M37	Z	.743	.743	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	-.238	-.238	0	%100
46	M41	Z	.413	.413	0	%100
47	M45	X	-.143	-.143	0	%100
48	M45	Z	.248	.248	0	%100
49	M46A	X	0	0	0	%100
50	M46A	Z	0	0	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	0	0	0	%100
53	M50A	X	-.143	-.143	0	%100
54	M50A	Z	.248	.248	0	%100
55	M51C	X	-.437	-.437	0	%100
56	M51C	Z	.757	.757	0	%100
57	M53	X	-.461	-.461	0	%100





**Member Distributed Loads (BLC 72 : Structure Wm (210 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	.798	.798	0 %100
59	M58A	X	-.339	-.339	0 %100
60	M58A	Z	.587	.587	0 %100
61	M59A	X	0	0	0 %100
62	M59A	Z	0	0	0 %100
63	M60	X	0	0	0 %100
64	M60	Z	0	0	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	0	0	0 %100
67	M64	X	-.238	-.238	0 %100
68	M64	Z	.413	.413	0 %100
69	M65	X	-.238	-.238	0 %100
70	M65	Z	.413	.413	0 %100
71	M69	X	-.572	-.572	0 %100
72	M69	Z	.991	.991	0 %100
73	M70	X	-.437	-.437	0 %100
74	M70	Z	.757	.757	0 %100
75	M72	X	-.461	-.461	0 %100
76	M72	Z	.798	.798	0 %100
77	M74	X	-.572	-.572	0 %100
78	M74	Z	.991	.991	0 %100
79	M75	X	-.437	-.437	0 %100
80	M75	Z	.757	.757	0 %100
81	M77A	X	-.461	-.461	0 %100
82	M77A	Z	.798	.798	0 %100
83	M82	X	-.25	-.25	0 %100
84	M82	Z	.434	.434	0 %100
85	MP3C	X	-.227	-.227	0 %100
86	MP3C	Z	.392	.392	0 %100
87	MP4C	X	-.227	-.227	0 %100
88	MP4C	Z	.392	.392	0 %100
89	MP2C	X	-.227	-.227	0 %100
90	MP2C	Z	.392	.392	0 %100
91	MP1C	X	-.227	-.227	0 %100
92	MP1C	Z	.392	.392	0 %100
93	M91A	X	0	0	0 %100
94	M91A	Z	0	0	0 %100
95	MP3B	X	-.227	-.227	0 %100
96	MP3B	Z	.392	.392	0 %100
97	MP4B	X	-.227	-.227	0 %100
98	MP4B	Z	.392	.392	0 %100
99	MP2B	X	-.227	-.227	0 %100
100	MP2B	Z	.392	.392	0 %100
101	MP1B	X	-.227	-.227	0 %100
102	MP1B	Z	.392	.392	0 %100
103	M100	X	-.206	-.206	0 %100
104	M100	Z	.356	.356	0 %100
105	M105	X	-.206	-.206	0 %100
106	M105	Z	.356	.356	0 %100
107	M110	X	0	0	0 %100
108	M110	Z	0	0	0 %100
109	M121	X	-.251	-.251	0 %100
110	M121	Z	.434	.434	0 %100
111	M122	X	0	0	0 %100
112	M122	Z	0	0	0 %100
113	M123	X	-.251	-.251	0 %100
114	M123	Z	.434	.434	0 %100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
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**Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.145	-.145	0	%100
2	M1	Z	.083	.083	0	%100
3	M4	X	-.441	-.441	0	%100
4	M4	Z	.254	.254	0	%100
5	M10	X	-.124	-.124	0	%100
6	M10	Z	.072	.072	0	%100
7	MP3A	X	-.392	-.392	0	%100
8	MP3A	Z	.227	.227	0	%100
9	MP4A	X	-.392	-.392	0	%100
10	MP4A	Z	.227	.227	0	%100
11	MP2A	X	-.392	-.392	0	%100
12	MP2A	Z	.227	.227	0	%100
13	MP1A	X	-.392	-.392	0	%100
14	MP1A	Z	.227	.227	0	%100
15	M43	X	-.124	-.124	0	%100
16	M43	Z	.072	.072	0	%100
17	M46	X	-.248	-.248	0	%100
18	M46	Z	.143	.143	0	%100
19	M51B	X	-.55	-.55	0	%100
20	M51B	Z	.318	.318	0	%100
21	M52B	X	-.138	-.138	0	%100
22	M52B	Z	.079	.079	0	%100
23	M76	X	-.743	-.743	0	%100
24	M76	Z	.429	.429	0	%100
25	M77	X	-1.01	-1.01	0	%100
26	M77	Z	.583	.583	0	%100
27	M80	X	-1.063	-1.063	0	%100
28	M80	Z	.614	.614	0	%100
29	M84	X	-.743	-.743	0	%100
30	M84	Z	.429	.429	0	%100
31	M85	X	-.252	-.252	0	%100
32	M85	Z	.146	.146	0	%100
33	M91	X	-.266	-.266	0	%100
34	M91	Z	.153	.153	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-.497	-.497	0	%100
38	M35	Z	.287	.287	0	%100
39	M36	X	-.497	-.497	0	%100
40	M36	Z	.287	.287	0	%100
41	M37	X	-.991	-.991	0	%100
42	M37	Z	.572	.572	0	%100
43	M40	X	-.138	-.138	0	%100
44	M40	Z	.079	.079	0	%100
45	M41	X	-.138	-.138	0	%100
46	M41	Z	.079	.079	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	0	0	0	%100
49	M46A	X	-.252	-.252	0	%100
50	M46A	Z	.146	.146	0	%100
51	M48	X	-.266	-.266	0	%100
52	M48	Z	.153	.153	0	%100
53	M50A	X	0	0	0	%100
54	M50A	Z	0	0	0	%100
55	M51C	X	-.252	-.252	0	%100
56	M51C	Z	.146	.146	0	%100
57	M53	X	-.266	-.266	0	%100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
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**Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	.153	.153	0 %100
59	M58A	X	-.441	-.441	0 %100
60	M58A	Z	.254	.254	0 %100
61	M59A	X	-.124	-.124	0 %100
62	M59A	Z	.072	.072	0 %100
63	M60	X	-.124	-.124	0 %100
64	M60	Z	.072	.072	0 %100
65	M61	X	-.248	-.248	0 %100
66	M61	Z	.143	.143	0 %100
67	M64	X	-.138	-.138	0 %100
68	M64	Z	.079	.079	0 %100
69	M65	X	-.55	-.55	0 %100
70	M65	Z	.318	.318	0 %100
71	M69	X	-.743	-.743	0 %100
72	M69	Z	.429	.429	0 %100
73	M70	X	-.252	-.252	0 %100
74	M70	Z	.146	.146	0 %100
75	M72	X	-.266	-.266	0 %100
76	M72	Z	.153	.153	0 %100
77	M74	X	-.743	-.743	0 %100
78	M74	Z	.429	.429	0 %100
79	M75	X	-1.01	-1.01	0 %100
80	M75	Z	.583	.583	0 %100
81	M77A	X	-1.063	-1.063	0 %100
82	M77A	Z	.614	.614	0 %100
83	M82	X	-.578	-.578	0 %100
84	M82	Z	.334	.334	0 %100
85	MP3C	X	-.392	-.392	0 %100
86	MP3C	Z	.227	.227	0 %100
87	MP4C	X	-.392	-.392	0 %100
88	MP4C	Z	.227	.227	0 %100
89	MP2C	X	-.392	-.392	0 %100
90	MP2C	Z	.227	.227	0 %100
91	MP1C	X	-.392	-.392	0 %100
92	MP1C	Z	.227	.227	0 %100
93	M91A	X	-.145	-.145	0 %100
94	M91A	Z	.083	.083	0 %100
95	MP3B	X	-.392	-.392	0 %100
96	MP3B	Z	.227	.227	0 %100
97	MP4B	X	-.392	-.392	0 %100
98	MP4B	Z	.227	.227	0 %100
99	MP2B	X	-.392	-.392	0 %100
100	MP2B	Z	.227	.227	0 %100
101	MP1B	X	-.392	-.392	0 %100
102	MP1B	Z	.227	.227	0 %100
103	M100	X	-.119	-.119	0 %100
104	M100	Z	.069	.069	0 %100
105	M105	X	-.475	-.475	0 %100
106	M105	Z	.274	.274	0 %100
107	M110	X	-.119	-.119	0 %100
108	M110	Z	.069	.069	0 %100
109	M121	X	-.579	-.579	0 %100
110	M121	Z	.334	.334	0 %100
111	M122	X	-.145	-.145	0 %100
112	M122	Z	.084	.084	0 %100
113	M123	X	-.145	-.145	0 %100
114	M123	Z	.084	.084	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[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-.678	-.678	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-.453	-.453	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-.453	-.453	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-.453	-.453	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-.453	-.453	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-.477	-.477	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-.477	-.477	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-1.145	-1.145	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-.874	-.874	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-.921	-.921	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-1.145	-1.145	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-.874	-.874	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-.921	-.921	0	%100
34	M91	Z	0	0	0	%100
35	M34	X	-.17	-.17	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-.43	-.43	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	-.43	-.43	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	-.859	-.859	0	%100
42	M37	Z	0	0	0	%100
43	M40	X	-.477	-.477	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	0	0	0	%100
47	M45	X	-.286	-.286	0	%100
48	M45	Z	0	0	0	%100
49	M46A	X	-.874	-.874	0	%100
50	M46A	Z	0	0	0	%100
51	M48	X	-.921	-.921	0	%100
52	M48	Z	0	0	0	%100
53	M50A	X	-.286	-.286	0	%100
54	M50A	Z	0	0	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	0	0	0	%100
57	M53	X	0	0	0	%100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

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**Member Distributed Loads (BLC 74 : Structure Wm (270 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
58	M53	Z	0	0	0	%100
59	M58A	X	-.17	-.17	0	%100
60	M58A	Z	0	0	0	%100
61	M59A	X	-.43	-.43	0	%100
62	M59A	Z	0	0	0	%100
63	M60	X	-.43	-.43	0	%100
64	M60	Z	0	0	0	%100
65	M61	X	-.859	-.859	0	%100
66	M61	Z	0	0	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	-.477	-.477	0	%100
70	M65	Z	0	0	0	%100
71	M69	X	-.286	-.286	0	%100
72	M69	Z	0	0	0	%100
73	M70	X	0	0	0	%100
74	M70	Z	0	0	0	%100
75	M72	X	0	0	0	%100
76	M72	Z	0	0	0	%100
77	M74	X	-.286	-.286	0	%100
78	M74	Z	0	0	0	%100
79	M75	X	-.874	-.874	0	%100
80	M75	Z	0	0	0	%100
81	M77A	X	-.921	-.921	0	%100
82	M77A	Z	0	0	0	%100
83	M82	X	-.501	-.501	0	%100
84	M82	Z	0	0	0	%100
85	MP3C	X	-.453	-.453	0	%100
86	MP3C	Z	0	0	0	%100
87	MP4C	X	-.453	-.453	0	%100
88	MP4C	Z	0	0	0	%100
89	MP2C	X	-.453	-.453	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	-.453	-.453	0	%100
92	MP1C	Z	0	0	0	%100
93	M91A	X	-.501	-.501	0	%100
94	M91A	Z	0	0	0	%100
95	MP3B	X	-.453	-.453	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	-.453	-.453	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	-.453	-.453	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-.453	-.453	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	-.411	-.411	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	-.411	-.411	0	%100
108	M110	Z	0	0	0	%100
109	M121	X	-.501	-.501	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	-.501	-.501	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

June 10, 2021  
 6:01 PM  
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**Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.145	-.145	0	%100
2	M1	Z	-.083	-.083	0	%100
3	M4	X	-.441	-.441	0	%100
4	M4	Z	-.254	-.254	0	%100
5	M10	X	-.124	-.124	0	%100
6	M10	Z	-.072	-.072	0	%100
7	MP3A	X	-.392	-.392	0	%100
8	MP3A	Z	-.227	-.227	0	%100
9	MP4A	X	-.392	-.392	0	%100
10	MP4A	Z	-.227	-.227	0	%100
11	MP2A	X	-.392	-.392	0	%100
12	MP2A	Z	-.227	-.227	0	%100
13	MP1A	X	-.392	-.392	0	%100
14	MP1A	Z	-.227	-.227	0	%100
15	M43	X	-.124	-.124	0	%100
16	M43	Z	-.072	-.072	0	%100
17	M46	X	-.248	-.248	0	%100
18	M46	Z	-.143	-.143	0	%100
19	M51B	X	-.138	-.138	0	%100
20	M51B	Z	-.079	-.079	0	%100
21	M52B	X	-.55	-.55	0	%100
22	M52B	Z	-.318	-.318	0	%100
23	M76	X	-.743	-.743	0	%100
24	M76	Z	-.429	-.429	0	%100
25	M77	X	-.252	-.252	0	%100
26	M77	Z	-.146	-.146	0	%100
27	M80	X	-.266	-.266	0	%100
28	M80	Z	-.153	-.153	0	%100
29	M84	X	-.743	-.743	0	%100
30	M84	Z	-.429	-.429	0	%100
31	M85	X	-1.01	-1.01	0	%100
32	M85	Z	-.583	-.583	0	%100
33	M91	X	-1.063	-1.063	0	%100
34	M91	Z	-.614	-.614	0	%100
35	M34	X	-.441	-.441	0	%100
36	M34	Z	-.254	-.254	0	%100
37	M35	X	-.124	-.124	0	%100
38	M35	Z	-.072	-.072	0	%100
39	M36	X	-.124	-.124	0	%100
40	M36	Z	-.072	-.072	0	%100
41	M37	X	-.248	-.248	0	%100
42	M37	Z	-.143	-.143	0	%100
43	M40	X	-.55	-.55	0	%100
44	M40	Z	-.318	-.318	0	%100
45	M41	X	-.138	-.138	0	%100
46	M41	Z	-.079	-.079	0	%100
47	M45	X	-.743	-.743	0	%100
48	M45	Z	-.429	-.429	0	%100
49	M46A	X	-1.01	-1.01	0	%100
50	M46A	Z	-.583	-.583	0	%100
51	M48	X	-1.063	-1.063	0	%100
52	M48	Z	-.614	-.614	0	%100
53	M50A	X	-.743	-.743	0	%100
54	M50A	Z	-.429	-.429	0	%100
55	M51C	X	-.252	-.252	0	%100
56	M51C	Z	-.146	-.146	0	%100
57	M53	X	-.266	-.266	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[ft,%]	End Location[ft,%]
58	M53	Z	-.153	-.153	0 %100
59	M58A	X	0	0	0 %100
60	M58A	Z	0	0	0 %100
61	M59A	X	-.497	-.497	0 %100
62	M59A	Z	-.287	-.287	0 %100
63	M60	X	-.497	-.497	0 %100
64	M60	Z	-.287	-.287	0 %100
65	M61	X	-.991	-.991	0 %100
66	M61	Z	-.572	-.572	0 %100
67	M64	X	-.138	-.138	0 %100
68	M64	Z	-.079	-.079	0 %100
69	M65	X	-.138	-.138	0 %100
70	M65	Z	-.079	-.079	0 %100
71	M69	X	0	0	0 %100
72	M69	Z	0	0	0 %100
73	M70	X	-.252	-.252	0 %100
74	M70	Z	-.146	-.146	0 %100
75	M72	X	-.266	-.266	0 %100
76	M72	Z	-.153	-.153	0 %100
77	M74	X	0	0	0 %100
78	M74	Z	0	0	0 %100
79	M75	X	-.252	-.252	0 %100
80	M75	Z	-.146	-.146	0 %100
81	M77A	X	-.266	-.266	0 %100
82	M77A	Z	-.153	-.153	0 %100
83	M82	X	-.145	-.145	0 %100
84	M82	Z	-.083	-.083	0 %100
85	MP3C	X	-.392	-.392	0 %100
86	MP3C	Z	-.227	-.227	0 %100
87	MP4C	X	-.392	-.392	0 %100
88	MP4C	Z	-.227	-.227	0 %100
89	MP2C	X	-.392	-.392	0 %100
90	MP2C	Z	-.227	-.227	0 %100
91	MP1C	X	-.392	-.392	0 %100
92	MP1C	Z	-.227	-.227	0 %100
93	M91A	X	-.578	-.578	0 %100
94	M91A	Z	-.334	-.334	0 %100
95	MP3B	X	-.392	-.392	0 %100
96	MP3B	Z	-.227	-.227	0 %100
97	MP4B	X	-.392	-.392	0 %100
98	MP4B	Z	-.227	-.227	0 %100
99	MP2B	X	-.392	-.392	0 %100
100	MP2B	Z	-.227	-.227	0 %100
101	MP1B	X	-.392	-.392	0 %100
102	MP1B	Z	-.227	-.227	0 %100
103	M100	X	-.119	-.119	0 %100
104	M100	Z	-.069	-.069	0 %100
105	M105	X	-.119	-.119	0 %100
106	M105	Z	-.069	-.069	0 %100
107	M110	X	-.475	-.475	0 %100
108	M110	Z	-.274	-.274	0 %100
109	M121	X	-.145	-.145	0 %100
110	M121	Z	-.084	-.084	0 %100
111	M122	X	-.579	-.579	0 %100
112	M122	Z	-.334	-.334	0 %100
113	M123	X	-.145	-.145	0 %100
114	M123	Z	-.084	-.084	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[ft, %]	End Location[ft, %]
1	M1	X	- .25	- .25	0	%100
2	M1	Z	- .434	- .434	0	%100
3	M4	X	- .085	- .085	0	%100
4	M4	Z	- .147	- .147	0	%100
5	M10	X	- .215	- .215	0	%100
6	M10	Z	- .373	- .373	0	%100
7	MP3A	X	- .227	- .227	0	%100
8	MP3A	Z	- .392	- .392	0	%100
9	MP4A	X	- .227	- .227	0	%100
10	MP4A	Z	- .392	- .392	0	%100
11	MP2A	X	- .227	- .227	0	%100
12	MP2A	Z	- .392	- .392	0	%100
13	MP1A	X	- .227	- .227	0	%100
14	MP1A	Z	- .392	- .392	0	%100
15	M43	X	- .215	- .215	0	%100
16	M43	Z	- .373	- .373	0	%100
17	M46	X	- .429	- .429	0	%100
18	M46	Z	- .743	- .743	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	- .238	- .238	0	%100
22	M52B	Z	- .413	- .413	0	%100
23	M76	X	- .143	- .143	0	%100
24	M76	Z	- .248	- .248	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	- .143	- .143	0	%100
30	M84	Z	- .248	- .248	0	%100
31	M85	X	- .437	- .437	0	%100
32	M85	Z	- .757	- .757	0	%100
33	M91	X	- .461	- .461	0	%100
34	M91	Z	- .798	- .798	0	%100
35	M34	X	- .339	- .339	0	%100
36	M34	Z	- .587	- .587	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M40	X	- .238	- .238	0	%100
44	M40	Z	- .413	- .413	0	%100
45	M41	X	- .238	- .238	0	%100
46	M41	Z	- .413	- .413	0	%100
47	M45	X	- .572	- .572	0	%100
48	M45	Z	- .991	- .991	0	%100
49	M46A	X	- .437	- .437	0	%100
50	M46A	Z	- .757	- .757	0	%100
51	M48	X	- .461	- .461	0	%100
52	M48	Z	- .798	- .798	0	%100
53	M50A	X	- .572	- .572	0	%100
54	M50A	Z	- .991	- .991	0	%100
55	M51C	X	- .437	- .437	0	%100
56	M51C	Z	- .757	- .757	0	%100
57	M53	X	- .461	- .461	0	%100





**Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)**

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M53	Z	- .798	- .798	0 %100
59	M58A	X	- .085	- .085	0 %100
60	M58A	Z	- .147	- .147	0 %100
61	M59A	X	- .215	- .215	0 %100
62	M59A	Z	- .373	- .373	0 %100
63	M60	X	- .215	- .215	0 %100
64	M60	Z	- .373	- .373	0 %100
65	M61	X	- .429	- .429	0 %100
66	M61	Z	- .743	- .743	0 %100
67	M64	X	- .238	- .238	0 %100
68	M64	Z	- .413	- .413	0 %100
69	M65	X	0	0	0 %100
70	M65	Z	0	0	0 %100
71	M69	X	- .143	- .143	0 %100
72	M69	Z	- .248	- .248	0 %100
73	M70	X	- .437	- .437	0 %100
74	M70	Z	- .757	- .757	0 %100
75	M72	X	- .461	- .461	0 %100
76	M72	Z	- .798	- .798	0 %100
77	M74	X	- .143	- .143	0 %100
78	M74	Z	- .248	- .248	0 %100
79	M75	X	0	0	0 %100
80	M75	Z	0	0	0 %100
81	M77A	X	0	0	0 %100
82	M77A	Z	0	0	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	0	0	0 %100
85	MP3C	X	- .227	- .227	0 %100
86	MP3C	Z	- .392	- .392	0 %100
87	MP4C	X	- .227	- .227	0 %100
88	MP4C	Z	- .392	- .392	0 %100
89	MP2C	X	- .227	- .227	0 %100
90	MP2C	Z	- .392	- .392	0 %100
91	MP1C	X	- .227	- .227	0 %100
92	MP1C	Z	- .392	- .392	0 %100
93	M91A	X	- .25	- .25	0 %100
94	M91A	Z	- .434	- .434	0 %100
95	MP3B	X	- .227	- .227	0 %100
96	MP3B	Z	- .392	- .392	0 %100
97	MP4B	X	- .227	- .227	0 %100
98	MP4B	Z	- .392	- .392	0 %100
99	MP2B	X	- .227	- .227	0 %100
100	MP2B	Z	- .392	- .392	0 %100
101	MP1B	X	- .227	- .227	0 %100
102	MP1B	Z	- .392	- .392	0 %100
103	M100	X	- .206	- .206	0 %100
104	M100	Z	- .356	- .356	0 %100
105	M105	X	0	0	0 %100
106	M105	Z	0	0	0 %100
107	M110	X	- .206	- .206	0 %100
108	M110	Z	- .356	- .356	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	0	0	0 %100
111	M122	X	- .251	- .251	0 %100
112	M122	Z	- .434	- .434	0 %100
113	M123	X	- .251	- .251	0 %100
114	M123	Z	- .434	- .434	0 %100

**Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M40	Y	-1.879	-4.428	0	.832
2	M40	Y	-4.428	-7.042	.832	1.665
3	M40	Y	-7.042	-8.256	1.665	2.497
4	M40	Y	-8.256	-6.578	2.497	3.329
5	M40	Y	-6.578	-3.47	3.329	4.162
6	M41	Y	-3.463	-6.545	0	.832
7	M41	Y	-6.545	-8.189	.832	1.665
8	M41	Y	-8.189	-6.9	1.665	2.497
9	M41	Y	-6.9	-4.227	2.497	3.329
10	M41	Y	-4.227	-1.665	3.329	4.162
11	M51B	Y	-1.879	-4.428	0	.832
12	M51B	Y	-4.428	-7.042	.832	1.665
13	M51B	Y	-7.042	-8.256	1.665	2.497
14	M51B	Y	-8.256	-6.578	2.497	3.329
15	M51B	Y	-6.578	-3.47	3.329	4.162
16	M52B	Y	-3.463	-6.545	0	.832
17	M52B	Y	-6.545	-8.189	.832	1.665
18	M52B	Y	-8.189	-6.9	1.665	2.497
19	M52B	Y	-6.9	-4.227	2.497	3.329
20	M52B	Y	-4.227	-1.665	3.329	4.162
21	M64	Y	-1.664	-4.227	0	.832
22	M64	Y	-4.227	-6.899	.832	1.665
23	M64	Y	-6.899	-8.187	1.665	2.497
24	M64	Y	-8.187	-6.544	2.497	3.329
25	M64	Y	-6.544	-3.463	3.329	4.162
26	M65	Y	-3.462	-6.572	0	.832
27	M65	Y	-6.572	-8.261	.832	1.665
28	M65	Y	-8.261	-7.048	1.665	2.497
29	M65	Y	-7.048	-4.428	2.497	3.329
30	M65	Y	-4.428	-1.883	3.329	4.162

**Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M40	Y	-3.578	-8.431	0	.832
2	M40	Y	-8.431	-13.406	.832	1.665
3	M40	Y	-13.406	-15.719	1.665	2.497
4	M40	Y	-15.719	-12.523	2.497	3.329
5	M40	Y	-12.523	-6.606	3.329	4.162
6	M41	Y	-6.593	-12.46	0	.832
7	M41	Y	-12.46	-15.59	.832	1.665
8	M41	Y	-15.59	-13.136	1.665	2.497
9	M41	Y	-13.136	-8.047	2.497	3.329
10	M41	Y	-8.047	-3.171	3.329	4.162
11	M51B	Y	-3.578	-8.431	0	.832
12	M51B	Y	-8.431	-13.406	.832	1.665
13	M51B	Y	-13.406	-15.719	1.665	2.497
14	M51B	Y	-15.719	-12.523	2.497	3.329
15	M51B	Y	-12.523	-6.606	3.329	4.162
16	M52B	Y	-6.593	-12.46	0	.832
17	M52B	Y	-12.46	-15.59	.832	1.665
18	M52B	Y	-15.59	-13.136	1.665	2.497
19	M52B	Y	-13.136	-8.047	2.497	3.329
20	M52B	Y	-8.047	-3.171	3.329	4.162
21	M64	Y	-3.167	-8.048	0	.832
22	M64	Y	-8.048	-13.135	.832	1.665
23	M64	Y	-13.135	-15.587	1.665	2.497



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

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**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[ft.%]	End Location[ft.%]
24	M64	Y	-15.587	-12.459	2.497	3.329
25	M64	Y	-12.459	-6.593	3.329	4.162
26	M65	Y	-6.592	-12.512	0	.832
27	M65	Y	-12.512	-15.728	.832	1.665
28	M65	Y	-15.728	-13.418	1.665	2.497
29	M65	Y	-13.418	-8.43	2.497	3.329
30	M65	Y	-8.43	-3.584	3.329	4.162

**Member Area Loads (BLC 39 : Structure D)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N59	N83	N81	N58	Y	Two Way	-.005
2	N7	N87B	N87C	N6	Y	Two Way	-.005
3	N88	N112	N110	N87	Y	Two Way	-.005

**Member Area Loads (BLC 40 : Structure Di)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N59	N83	N81	N58	Y	Two Way	-.01
2	N7	N87B	N87C	N6	Y	Two Way	-.01
3	N88	N112	N110	N87	Y	Two Way	-.01

**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 571.699	10	2155.153	13	1690.072	1	4.658	13	1.023	4	.046	12
2		min -605.905	4	251.604	7	-1902.226	7	-.45	7	-1.023	10	-.212	6
3	N56	max 1359.186	9	2209.437	21	849.378	1	-.141	3	.999	12	.119	3
4		min -1457.43	3	399.663	3	-748.552	7	-2.982	45	-.975	6	-4.107	45
5	N85	max 1437.789	11	2343.62	17	1036.554	12	.013	11	1.009	8	4.474	17
6		min -1306.021	5	452.607	11	-922.773	6	-2.834	29	-1.093	2	.192	11
7	Totals:	max 3066.632	10	6221.768	22	3503.891	1						
8		min -3066.634	4	3202.589	4	-3503.885	7						

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

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	Eqn
1	M1	PIPE 3.0	.140	4.427	18	.062	8...	7	28250...	65205	5.749	5.749	...H1-...
2	M4	HSS4X4X4	.293	0	1	.061	0	y	13	124657...	1395...	16.181	16.181...H1-...
3	M10	HSS4X4X4	.141	2.375	13	.044	2...	y	13	136263...	1395...	16.181	16.181...H1-...
4	MP3A	PIPE 2.0	.291	4.333	5	.083	4...		6	14916...	32130	1.872	1.872...H1-...
5	MP4A	PIPE 2.0	.245	4.333	5	.100	.667		6	14916...	32130	1.872	1.872...H1-...
6	MP2A	PIPE 2.0	.291	4.333	10	.060	2...		9	14916...	32130	1.872	1.872...H1-...
7	MP1A	PIPE 2.0	.371	4.333	9	.195	4...		12	14916...	32130	1.872	1.872...H1-...
8	M43	HSS4X4X4	.145	0	24	.047	0	y	13	136263...	1395...	16.181	16.181...H1-...
9	M46	PL1/2x6	.148	.516	7	.092	0	y	10	66009...	97200	1.012	12.15...H1-...
10	M51B	L2x2x4	.092	0	2	.010	4...	y	17	12728...	3058...	.691	1.466...H2-1
11	M52B	L2x2x4	.092	0	1	.011	4...	y	21	12728...	3058...	.691	1.463...H2-1
12	M76	PL3/8x6	.129	0	1	.184	0	y	18	70647...	72900	.57	9.113...H1-...
13	M77	PL3/8x6	.188	.167	8	.281	0	y	13	71583...	72900	.57	9.113...H1-...
14	M80	PL1/2x6	.047	.112	1	.059	.112	y	5	96757...	97200	1.012	12.15...H1-...
15	M84	PL3/8x6	.187	0	1	.175	0	y	21	70647...	72900	.57	9.113...H1-...
16	M85	PL3/8x6	.195	.167	7	.296	0	y	24	71583...	72900	.57	9.113...H1-...
17	M91	PL1/2x6	.050	.112	7	.077	0	y	3	96757...	97200	1.012	12.15...H1-...
18	M34	HSS4X4X4	.312	0	45	.091	0	y	45	124657...	1395...	16.181	16.181...H1-...
19	M35	HSS4X4X4	.149	2.375	22	.045	2...	y	20	136263...	1395...	16.181	16.181...H1-...



Company : Maser Consulting  
 Designer : AE  
 Job Number :  
 Model Name :

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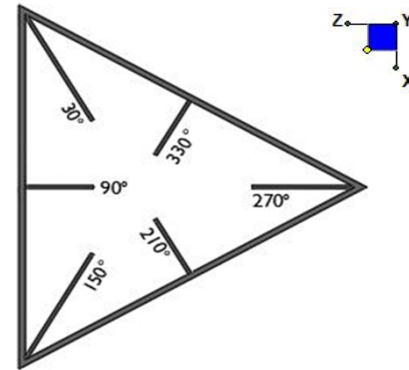
**Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)**

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	Eqn
20	M36	HSS4X4X4	.152	0	20	.050	0	y	44	136263...	1395...	16.181	H1-...
21	M37	PL1/2x6	.143	.516	2	.102	0	y	6	66009...	97200...	1.012	12.15 ... H1-...
22	M40	L2x2x4	.089	0	11	.010	4...	y	13	12728...	3058...	.691	1.479 ... H2-1
23	M41	L2x2x4	.090	4.162	7	.012	4...	y	18	12728...	3058...	.691	1.481 ... H2-1
24	M45	PL3/8x6	.118	0	7	.214	0	y	37	70647...	72900...	.57	9.113 ... H1-...
25	M46A	PL3/8x6	.161	.167	4	.295	0	y	21	71583...	72900...	.57	9.113 ... H1-...
26	M48	PL1/2x6	.040	.112	9	.062	.112	y	1	96757...	97200...	1.012	12.15 ... H1-...
27	M50A	PL3/8x6	.182	0	2	.198	0	y	17	70647...	72900...	.57	9.113 ... H1-...
28	M51C	PL3/8x6	.187	.167	2	.309	0	y	20	71583...	72900...	.57	9.113 ... H1-...
29	M53	PL1/2x6	.043	.112	8	.124	0	y	47	96757...	97200...	1.012	12.15 ... H1-...
30	M58A	HSS4X4X4	.329	0	18	.092	0	y	29	124657...	1395...	16.181	16.181 ... H1-...
31	M59A	HSS4X4X4	.157	2.375	18	.055	2...	y	29	136263...	1395...	16.181	16.181 ... H1-...
32	M60	HSS4X4X4	.155	0	16	.049	0	y	17	136263...	1395...	16.181	16.181 ... H1-...
33	M61	PL1/2x6	.141	.516	5	.109	.516	y	26	66009...	97200...	1.012	12.15 ... H1-...
34	M64	L2x2x4	.094	4.162	6	.010	4...	y	20	12728...	3058...	.691	1.467 ... H2-1
35	M65	L2x2x4	.087	0	5	.011	4...	y	13	12728...	3058...	.691	1.463 ... H2-1
36	M69	PL3/8x6	.114	0	6	.177	0	y	45	70647...	72900...	.57	9.113 ... H1-...
37	M70	PL3/8x6	.196	.167	12	.314	0	y	17	71583...	72900...	.57	9.113 ... H1-...
38	M72	PL1/2x6	.045	.112	5	.091	0	y	26	96757...	97200...	1.012	12.15 ... H1-...
39	M74	PL3/8x6	.180	0	5	.187	0	y	13	70647...	72900...	.57	9.113 ... H1-...
40	M75	PL3/8x6	.173	.167	11	.309	0	y	16	71583...	72900...	.57	9.113 ... H1-...
41	M77A	PL1/2x6	.046	.112	5	.090	0	y	7	96757...	97200...	1.012	12.15 ... H1-...
42	M82	PIPE 3.0	.135	4.427	14	.055	8...		3	28250...	65205...	5.749	5.749 ... H1-...
43	MP3C	PIPE 2.0	.312	4.333	1	.079	4...		2	14916...	32130...	1.872	1.872 ... H1-...
44	MP4C	PIPE 2.0	.253	4.333	1	.090	.667		2	14916...	32130...	1.872	1.872 ... H1-...
45	MP2C	PIPE 2.0	.348	4.333	6	.059	2...		6	14916...	32130...	1.872	1.872 ... H1-...
46	MP1C	PIPE 2.0	.385	4.333	5	.200	4...		7	14916...	32130...	1.872	1.872 ... H1-...
47	M91A	PIPE 3.0	.138	4.427	46	.056	8...		12	28250...	65205...	5.749	5.749 ... H1-...
48	MP3B	PIPE 2.0	.305	4.333	8	.074	4...		11	14916...	32130...	1.872	1.872 ... H1-...
49	MP4B	PIPE 2.0	.244	4.333	8	.090	1...		10	14916...	32130...	1.872	1.872 ... H1-...
50	MP2B	PIPE 2.0	.324	4.333	7	.057	2...		7	14916...	32130...	1.872	1.872 ... H1-...
51	MP1B	PIPE 2.0	.403	4.333	1	.191	4...		4	14916...	32130...	1.872	1.872 ... H1-...
52	M100	PIPE 2.5	.174	2.214	9	.060	11...		7	14558...	50715...	3.596	3.596 ... H1-...
53	M105	PIPE 2.5	.169	2.214	5	.054	6.38		6	14558...	50715...	3.596	3.596 ... H1-...
54	M110	PIPE 2.5	.187	2.214	1	.057	6.51		6	14558...	50715...	3.596	3.596 ... H1-...
55	M121	L3X3X4	.256	0	7	.046	.018	z	12	43562...	46656...	1.688	3.756 ... H2-1
56	M122	L3X3X4	.284	1.76	7	.051	0	z	8	43562...	46656...	1.688	3.756 ... H2-1
57	M123	L3X3X4	.235	0	11	.044	.11	z	4	43562...	46656...	1.688	3.756 ... H2-1

## I. Mount-to-Tower Connection Check

### RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
n3	270
n85	150
n56	30



TYPICAL PLATFORM

### Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

$d_x$  (in) (Delta X of typ. bolt config. sketch):

$d_y$  (in) (Delta Y of typ. bolt config. sketch):

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

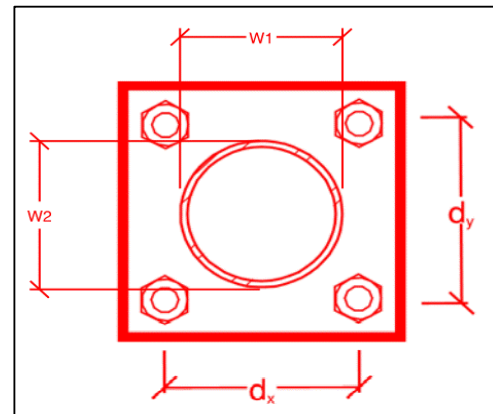
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
6
6
A325N
0.625
21.1
4.2
20.7
12.4
25.5%*
8.4%



\*Note: Tension reduction not required if tension or shear capacity < 30%

### Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

$t_{plate}$  (in):

Weld Size (1/16 in):

$\Phi \cdot R_n$  (kip/in):

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
8
8
4
4
36
0.75
5
6.96
2.96
29.4%
42.5%

### Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in):	10.5
$\Phi \cdot M_{n_{xx}}$ (kip-in):	36.5
$M_{u_{yy}}$ (kip-in):	0.2
$\Phi \cdot M_{n_{yy}}$ (kip-in):	36.5

# Mount Desktop – Post Modification Inspection (PMI) Report Requirements

## Documents & Photos Required from Contractor – Mount Modification

---

**Purpose** – to provide TES 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 TES 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.vzsmart.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 TES.
  - 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 TES 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 TES 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 TES certification, invoices, or specifications validating accepted status

Certifying Individual: Company \_\_\_\_\_


















Name \_\_\_\_\_

Signature \_\_\_\_\_





## **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

Sector: **A**  
 Structure Type: Monopole  
 Mount Elev: 103.83

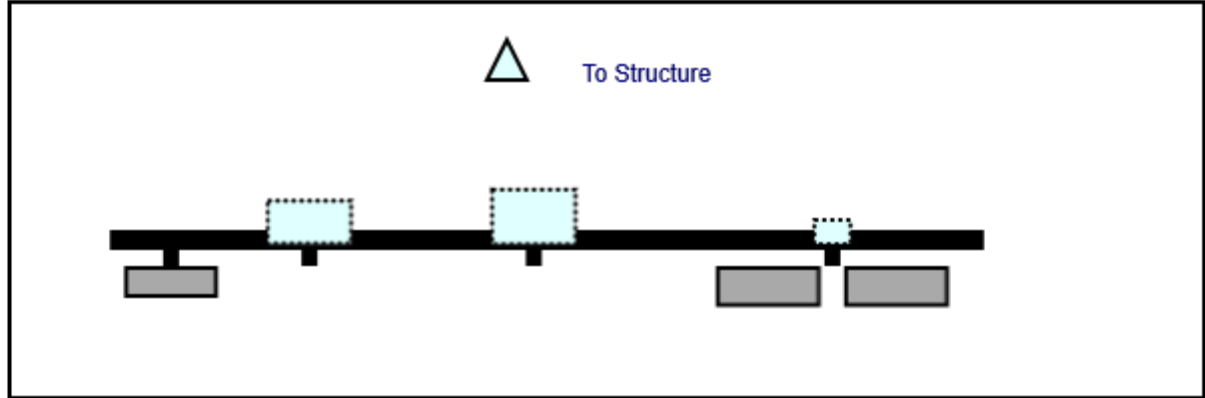
10050381

6/10/2021

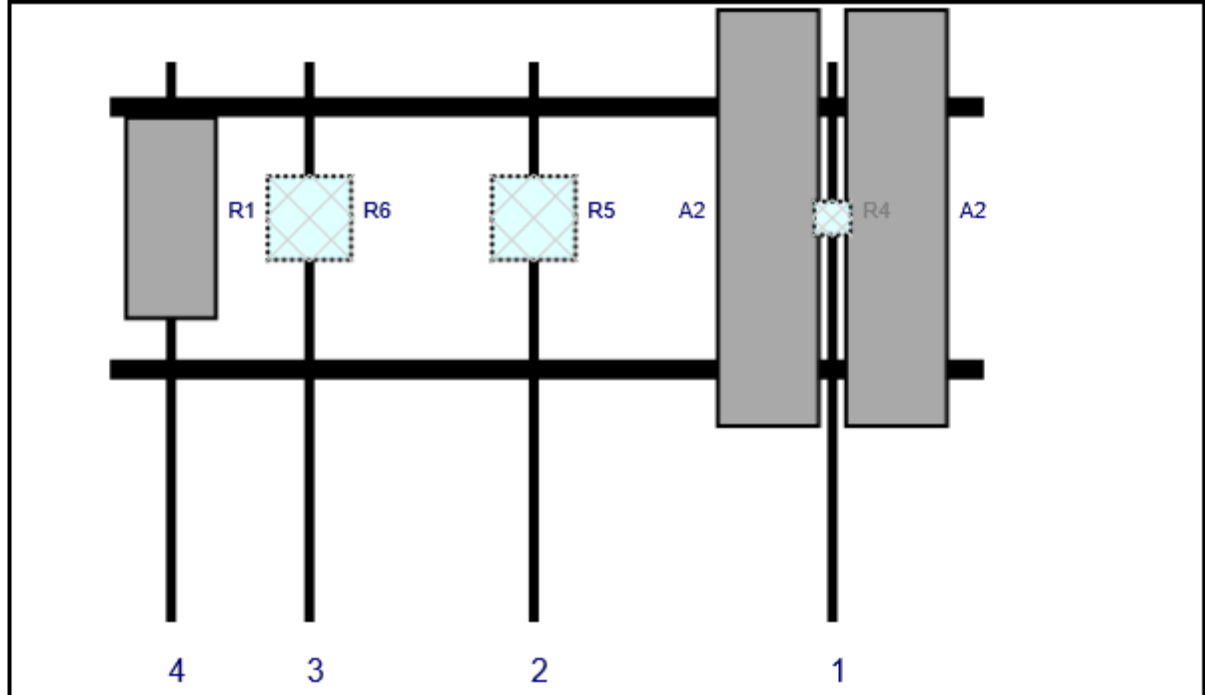


Page: 1

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
A2	JAHH-45B-R3B	72	18	124	1	a	Front	26.76	11	Retained	03/30/2021
A2	JAHH-45B-R3B	72	18	124	1	b	Front	26.76	-11	Retained	03/30/2021
R4	CBC78T-DS-43	6.4	6.9	124	1	a	Behind	26.76	0	Retained	03/30/2021
R5	B2/B66A RRH-BR049	15	15	72.75	2	a	Behind	26.76	0	Retained	03/30/2021
R6	B5/B13 RRH-BR04C	15	15	34.25	3	a	Behind	26.76	0	Retained	03/30/2021
R1	MT6407-77A	35.1	16.1	10.5	4	a	Front	26.76	0	Added	

Sector: **B**  
 Structure Type: Monopole  
 Mount Elev: 103.83

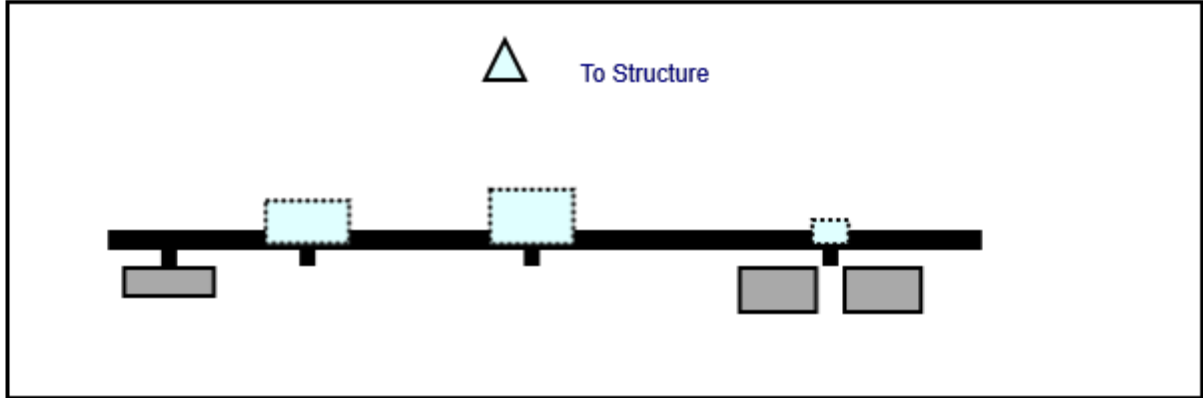
10050381

6/10/2021

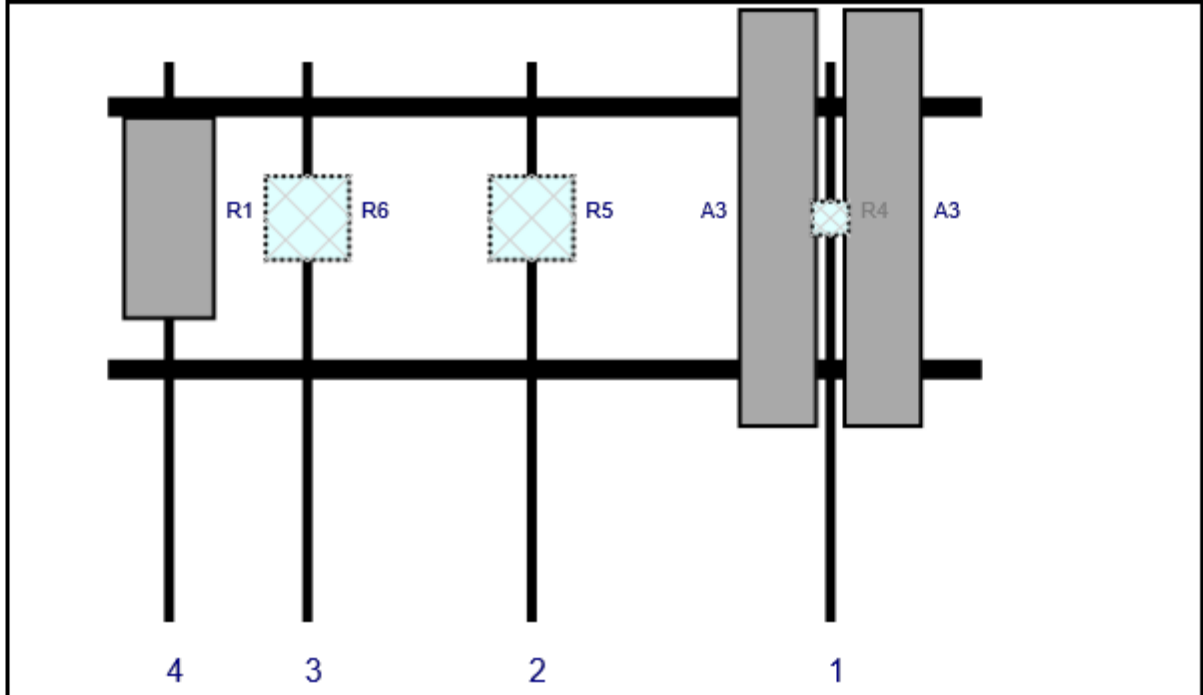
Page: 2



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
A3	JAHH-65B-R3B	72	13.8	124	1	a	Front	26.76	9	Retained	03/30/2021
A3	JAHH-65B-R3B	72	13.8	124	1	b	Front	26.76	-9	Retained	03/30/2021
R4	CBC78T-DS-43	6.4	6.9	124	1	a	Behind	26.76	0	Retained	03/30/2021
R5	B2/B66A RRH-BR049	15	15	72.75	2	a	Behind	26.76	0	Retained	03/30/2021
R6	B5/B13 RRH-BR04C	15	15	34.25	3	a	Behind	26.76	0	Retained	03/30/2021
R1	MT6407-77A	35.1	16.1	10.5	4	a	Front	26.76	0	Added	

Sector: C  
 Structure Type: Monopole  
 Mount Elev: 103.83

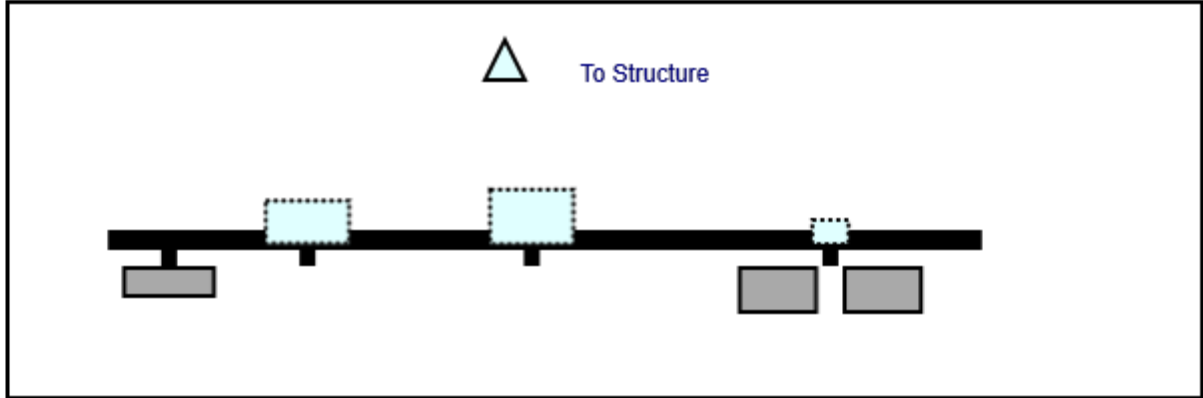
6/10/2021

10050381

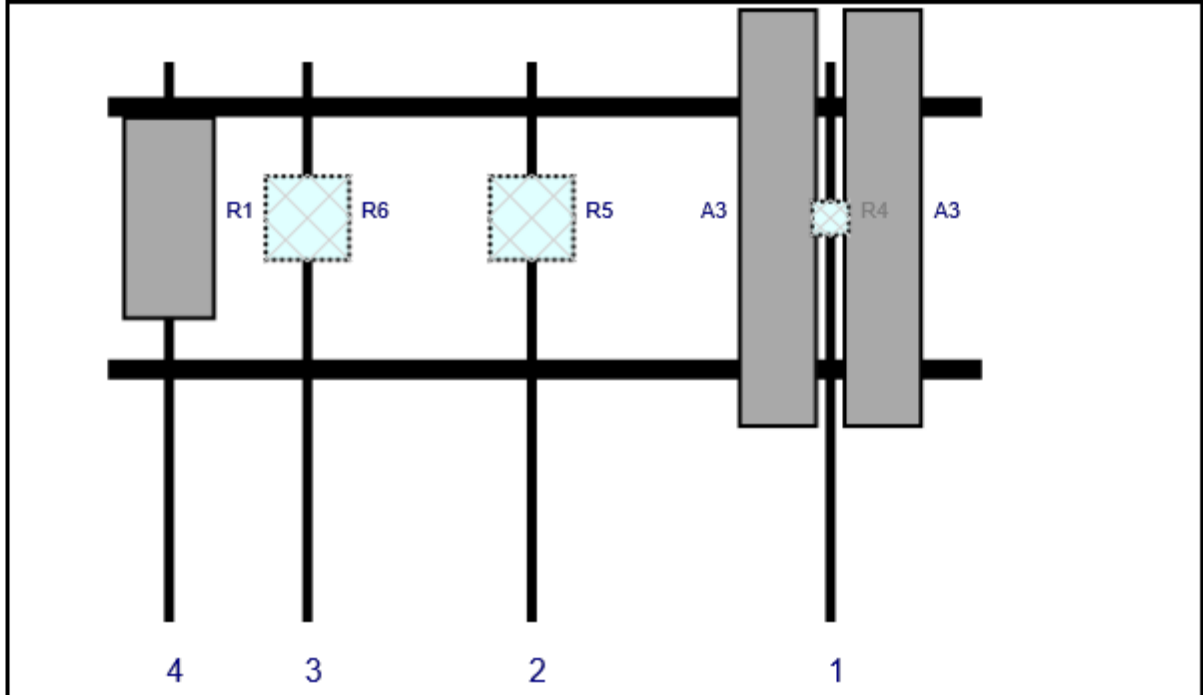


Page: 3

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
A3	JAHH-65B-R3B	72	13.8	124	1	a	Front	26.76	9	Retained	03/30/2021
A3	JAHH-65B-R3B	72	13.8	124	1	b	Front	26.76	-9	Retained	03/30/2021
R4	CBC78T-DS-43	6.4	6.9	124	1	a	Behind	26.76	0	Retained	03/30/2021
R5	B2/B66A RRH-BR049	15	15	72.75	2	a	Behind	26.76	0	Retained	03/30/2021
R6	B5/B13 RRH-BR04C	15	15	34.25	3	a	Behind	26.76	0	Retained	03/30/2021
R1	MT6407-77A	35.1	16.1	10.5	4	a	Front	26.76	0	Added	

**Subject**

TIA-222-H Usage

**Site Information**

Site ID: 469151-VZW / NAUGATUCK WEST CT  
Site Name: NAUGATUCK WEST CT  
Carrier Name: Verizon Wireless  
Address: 880 Andrew Mountain Rd  
Naugatuck, Connecticut 06770  
New Haven County  
Latitude: 41.484453°  
Longitude: -73.089844°

**Structure Information**

Tower Type: Monopole  
Mount Type: 12.50-Ft Platform

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.

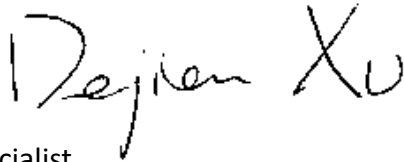
The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. The TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

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 map 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 method, seismic analysis, 30-degree increment wind direction 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,

Dejian Xu, PE  
Technical Specialist



Site Name: **NAUGATUCK WEST CT**  
 Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )	(%)
VZW 700	751	4	962	3846	106	0.0123	0.5007	2.46%
VZW Cellular	874	4	891	3565	106	0.0114	0.5827	1.96%
VZW PCS	1975	4	2201	8804	106	0.0282	1.0000	2.82%
VZW AWS	2120	4	2576	10303	106	0.0330	1.0000	3.30%
VZW CBAND	3730.08	4	6531	26125	106	0.0836	1.0000	8.36%
<b>Total Percentage of Maximum Permissible Exposure</b>								<b>18.89%</b>

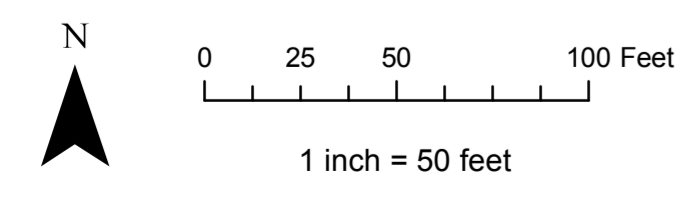
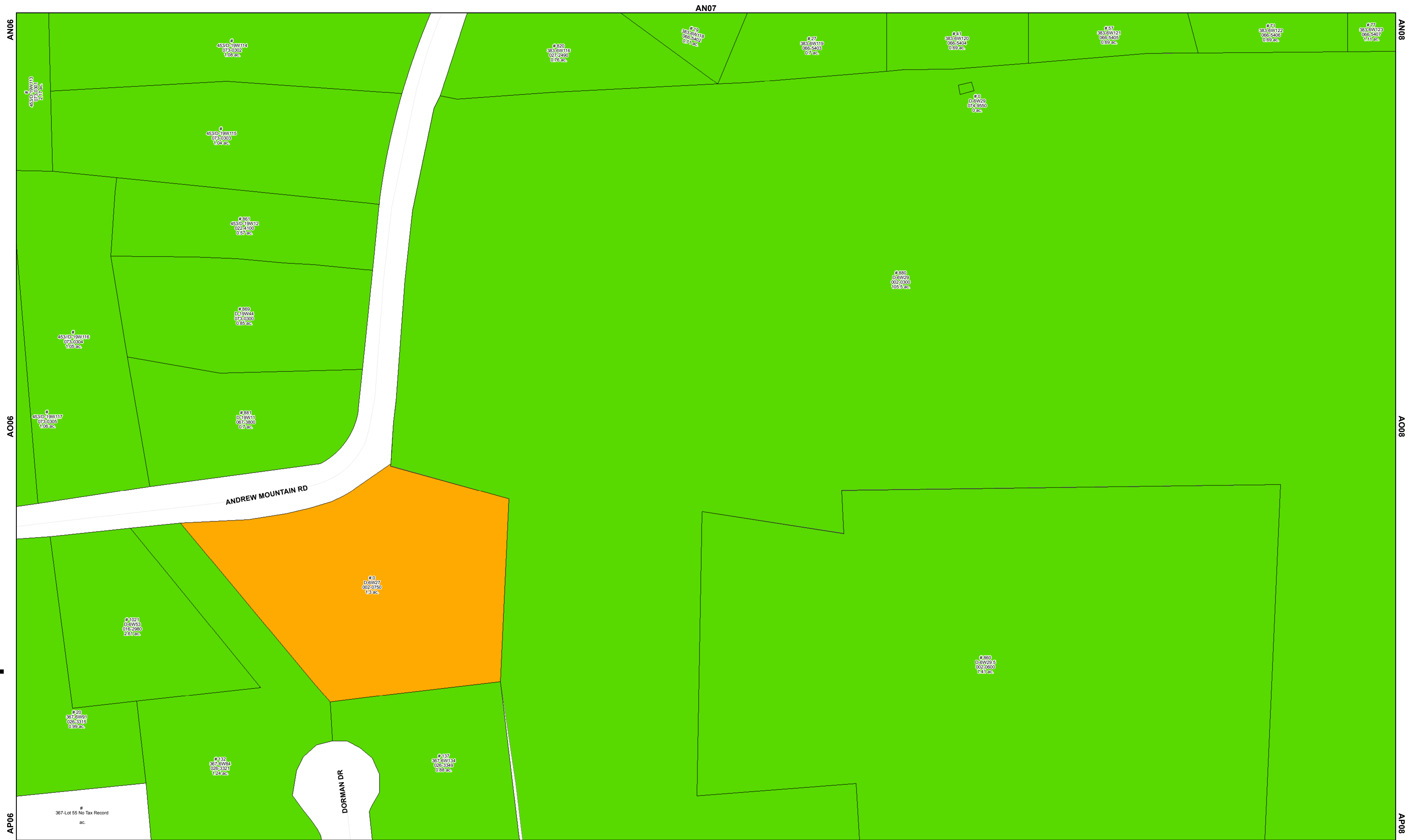
\*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

\*\*Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz  
 mW/cm<sup>2</sup> = milliwatts per square centimeter  
 ERP = Effective Radiated Power

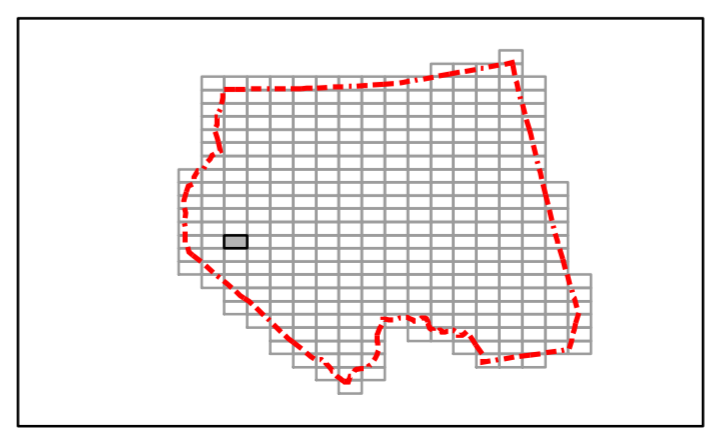
Absolute worst case maximum values used.

# Parcel Map A007



## Parcel Map Borough of Naugatuck, Connecticut A007

- Parcel Classification**
- Residential
  - Commercial
  - Industrial
  - Exempt
  - Public Utility
  - Farm / Forest / Open Space
  - Condominiums / Trailer Park
- Water
  - +— Metro North Railroad
  - State of Connecticut Bridle Trail



AN06	AN07	AN08
AO06		AO08
AP06	AP07	AP08

The spatial information on this map is not a survey and is subject to any changes an actual land survey discloses.

This map does not show exact property lines. Property lines were digitized from Borough of Naugatuck tax maps.

This map was produced by the Borough of Naugatuck Engineering Department, GIS Division.



# Town of Naugatuck, CT

## Property Listing Report

Map Block Lot

002-0301

Building # 1

PID 129166

Account

002-0301

### Property Information

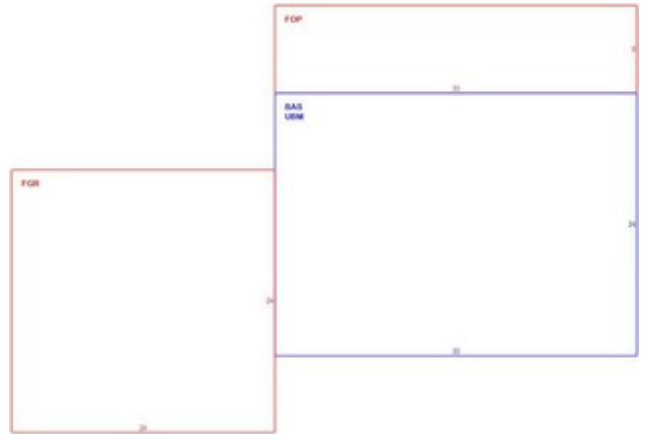
Property Location	880 ANDREW MOUNTAIN RD
Owner	PIERCE MARJORIE
Co-Owner	
Mailing Address	111 BIRCH LA NAUGATUCK CT 06770
Land Use	1010 Single Fam
Land Class	R
Zoning Code	
Census Tract	

Neighborhood	7
Acreage	1.72
Utilities	
Lot Setting/Desc	
Book / Page	0954/0258
Additional Info	

### Photo



### Sketch



### Primary Construction Details

Year Built	2000
Building Desc.	Single Fam
Building Style	Ranch
Building Grade	C
Stories	1
Occupancy	1.00
Exterior Walls	Logs
Exterior Walls 2	NA
Roof Style	Gable
Roof Cover	Asphalt
Interior Walls	Drywall
Interior Walls 2	NA
Interior Floors 1	Hardwood
Interior Floors 2	

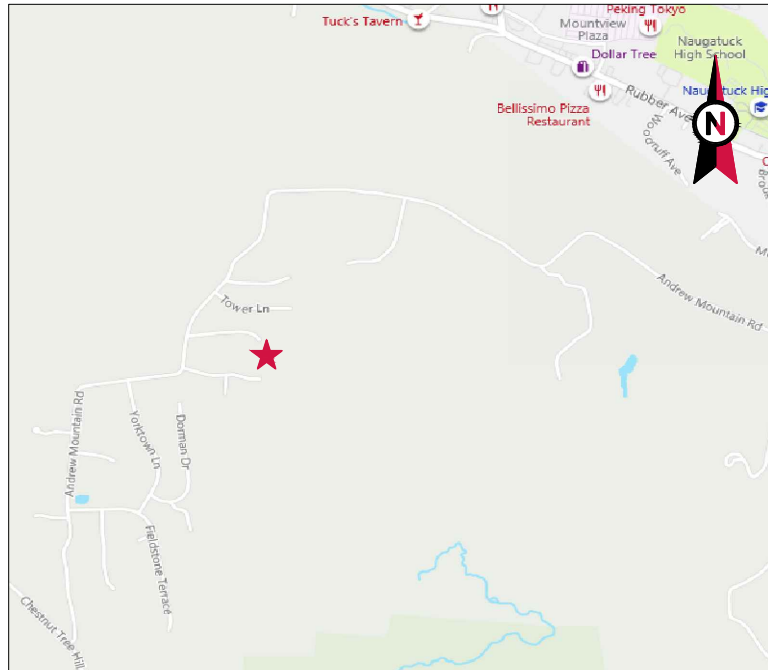
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bedrooms	02
Full Bathrooms	1
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	3
Bath Style	Average
Kitchen Style	Average
Fin Bsmt Area	
Fin Bsmt Quality	
Bsmt Gar	0
Fireplaces	0

### (\*Industrial / Commercial Details)

Building Use	Residential
Building Condition	G
Sprinkler %	NA
Heat / AC	NA
Frame Type	NA
Baths / Plumbing	NA
Ceiling / Wall	NA
Rooms / Prtns	NA
Wall Height	NA
First Floor Use	NA
Foundation	NA





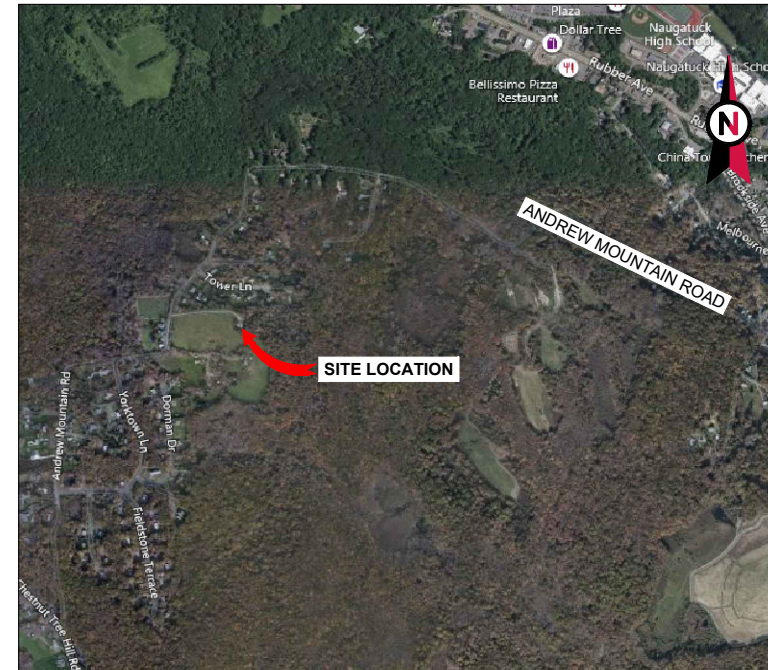


VICINITY MAP



**AMERICAN TOWER®**

ATC SITE NAME: NAUGATUCK CT  
 ATC SITE NUMBER: 283423  
 VERIZON SITE NAME: NAUGATUCK WEST CT  
 VERIZON SITE NUMBER: 469151  
 SITE ADDRESS: 880 ANDREW MOUNTAIN ROAD  
 NAUGATUCK, CT 06770-3656



LOCATION MAP

**VERIZON  
 5G L-SUB6 CARRIER ADD ANTENNA AMENDMENT DRAWINGS**

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.  1. 2018 CONNECTICUT STATE BUILDING CODE-AMENDMENTS TO IBC 2015 2. INTERNATIONAL BUILDING CODE 2015, INTERNATIONAL CODE COUNCIL 3. TIA-222-G-4, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS 4. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS 5. STEEL CONSTRUCTION MANUAL 14TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION 6. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 880 ANDREW MOUNTAIN ROAD NAUGATUCK, CT 06770-3656  COUNTY: NEW HAVEN  <u>GEOGRAPHIC COORDINATES:</u>  LATITUDE: 41.484453 LONGITUDE: -73.089844 GROUND ELEVATION: 855' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:  REMOVE (2) OVP(s) AND (2) HYBRID CABLE(s)  INSTALL MOUNT MODIFICATIONS, (3) ANTENNA(s), (3) RRR(s), (2) OVP(s), AND (2) HYBRID CABLE(s)  EXISTING (3) EXISTING ANTENNA MOUNTS, (6) ANTENNA(s), (6) RRR(s), AND (3) DIPLEXER(s) TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<u>PROJECT TEAM</u>  <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801  <u>ENGINEER:</u> DEWBERRY ENGINEERS INC. 99 SUMMER STREET SUITE 700 BOSTON, MA 02110  <u>PROPERTY OWNER:</u> FRANKLIN B ANDREW JR 880 ANDREW MOUNTAIN ROAD NAUGATUCK, CT 06770	<u>APPLICANT:</u> VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581	<u>PROJECT NOTES</u>  1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.				
<u>UTILITY COMPANIES</u>  POWER COMPANY: EVERSOURCE PHONE: (877) 659-6326  TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843		<u>PROJECT LOCATION DIRECTIONS</u>  FROM DOWNTOWN NEW HAVEN CT START OUT GOING NORTHEAST ON CHURCH ST TOWARD WALL ST. TURN LEFT ONTO GROVE ST. GROVE ST BECOMES TOWER PKWY. TOWER PKWY BECOMES WHALLEY AVE. TURN SLIGHT LEFT ONTO AMITY RD/CT-63. CONTINUE TO FOLLOW CT-63. TURN LEFT TO STAY ON CT-63. TURN LEFT ONTO SCOTT ST. TAKE THE 3RD LEFT ONTO ANDREW AVE. TURN RIGHT ONTO ANDREW MOUNTAIN RD. 946 ANDREW MOUNTAIN RD, NAUGATUCK, CT 06770-3643, 946 ANDREW MOUNTAIN RD IS ON THE LEFT.					

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MR	05/28/21
0	FINAL	EMA	06/28/21

ATC SITE NUMBER:  
 283423  
  
 ATC SITE NAME:  
 NAUGATUCK CT  
  
 VERIZON SITE NAME:  
 NAUGATUCK WEST CT  
  
 SITE ADDRESS:  
 880 ANDREW MOUNTAIN ROAD  
 NAUGATUCK, CT 06770-3656



DATE DRAWN:	05/27/21
ATC JOB NO:	13668711_D1
CUSTOMER ID:	NAUGATUCK WEST CT
CUSTOMER #:	469151

TITLE SHEET

SHEET NUMBER: **G-001** REVISION: **0**

**GENERAL CONSTRUCTION NOTES:**

1. OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
  - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
  - B. AC/TELCO INTERFACE BOX (PPC)
  - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
  - D. TOWERS, MONOPOLES
  - E. TOWER LIGHTING
  - F. GENERATORS & LIQUID PROPANE TANK
  - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
  - H. ANTENNAS (INSTALLED BY OTHERS)
  - I. TRANSMISSION LINE
  - J. TRANSMISSION LINE JUMPERS
  - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
  - L. TRANSMISSION LINE GROUND KITS
  - M. HANGERS
  - N. HOISTING GRIPS
  - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

**SPECIAL CONSTRUCTION**

**ANTENNA INSTALLATION NOTES:**

1. WORK INCLUDED:
  - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
  - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS.
  - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
  - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
  - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
  - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
  - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREEDED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



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REV.	DESCRIPTION	BY	DATE
A	PRELIM	MR	05/28/21
0	FINAL	EMA	06/28/21

ATC SITE NUMBER:  
 283423

ATC SITE NAME:  
 NAUGATUCK CT

VERIZON SITE NAME:  
 NAUGATUCK WEST CT

SITE ADDRESS:  
 880 ANDREW MOUNTAIN ROAD  
 NAUGATUCK, CT 06770-3656



DATE DRAWN:	05/27/21
ATC JOB NO:	13668711_D1
CUSTOMER ID:	NAUGATUCK WEST CT
CUSTOMER #:	469151

**GENERAL NOTES**

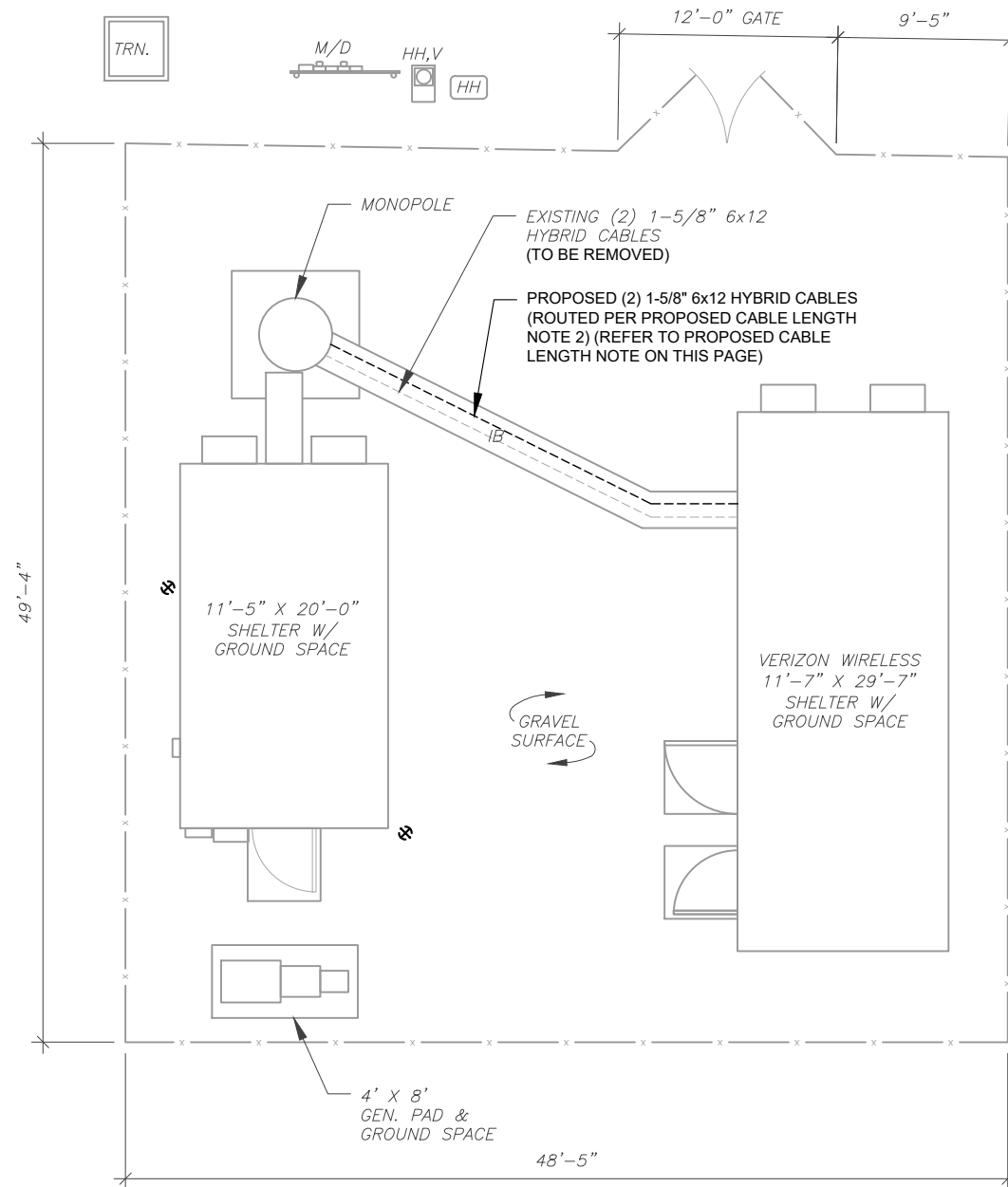
SHEET NUMBER: <b>G-002</b>	REVISION: <b>0</b>
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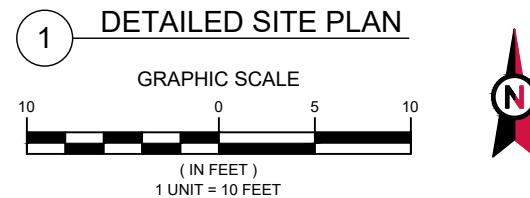
**SITE PLAN NOTES:**

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
x	CHAINLINK FENCE



- PROPOSED CABLE LENGTH:**
1. ESTIMATED LENGTH OF PROPOSED CABLE IS **151'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
  2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).



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REV.	DESCRIPTION	BY	DATE
A	PRELIM	MR	05/28/21
0	FINAL	EMA	06/28/21

ATC SITE NUMBER:  
 283423

ATC SITE NAME:  
 NAUGATUCK CT

VERIZON SITE NAME:  
 NAUGATUCK WEST CT

SITE ADDRESS:  
 880 ANDREW MOUNTAIN ROAD  
 NAUGATUCK, CT 06770-3656



DATE DRAWN:	05/27/21
ATC JOB NO:	13668711_D1
CUSTOMER ID:	NAUGATUCK WEST CT
CUSTOMER #:	469151

DETAILED SITE PLAN

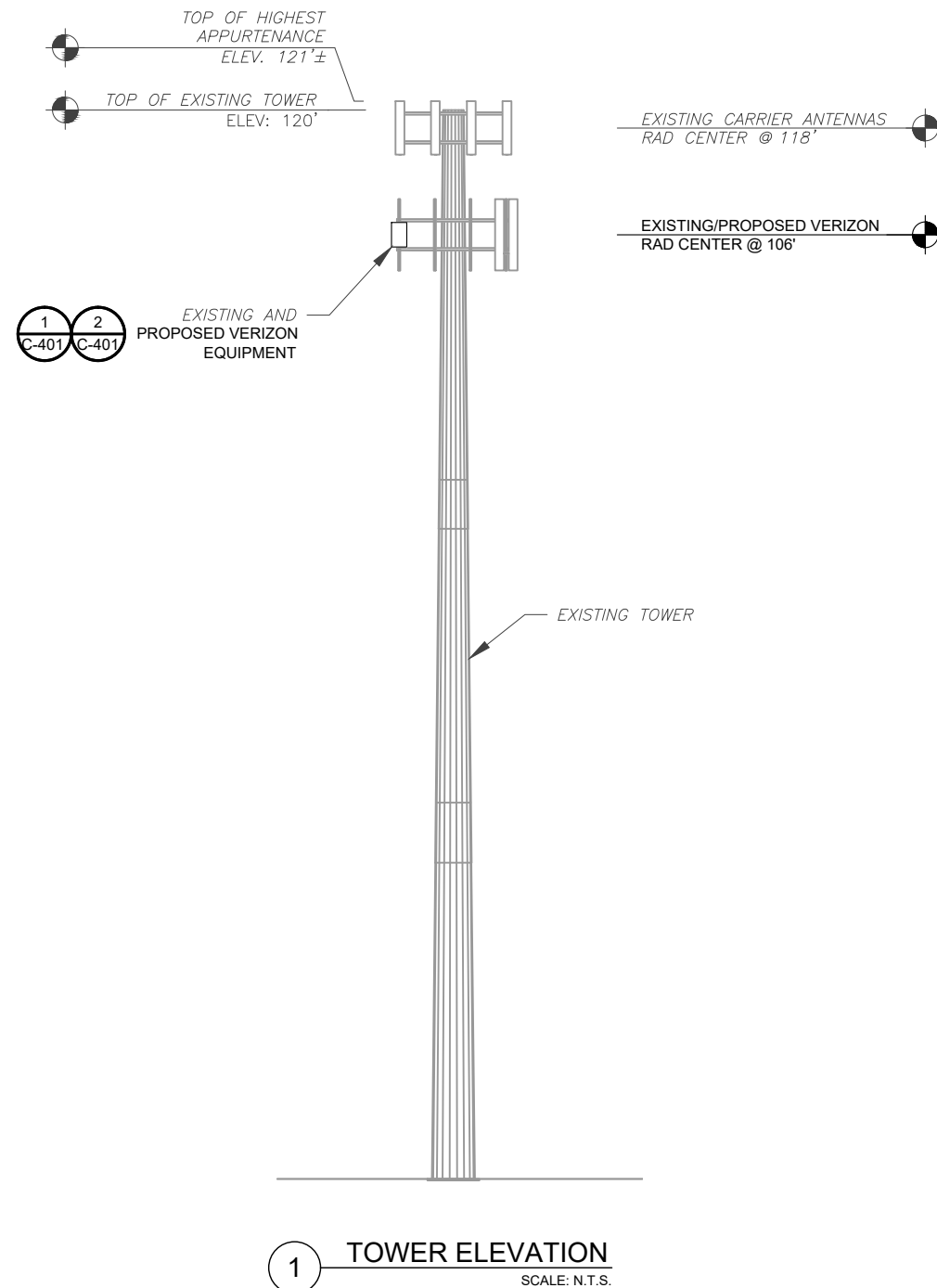
SHEET NUMBER: **C-101** REVISION: **0**

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PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED 06/11/21, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



**TOWER NOTE:**

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

REV.	DESCRIPTION	BY	DATE
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0	FINAL	EMA	06/28/21

ATC SITE NUMBER:  
283423

ATC SITE NAME:  
NAUGATUCK CT

VERIZON SITE NAME:  
NAUGATUCK WEST CT

SITE ADDRESS:  
880 ANDREW MOUNTAIN ROAD  
NAUGATUCK, CT 06770-3656

SEAL:



DATE DRAWN:	05/27/21
ATC JOB NO:	13668711_D1
CUSTOMER ID:	NAUGATUCK WEST CT
CUSTOMER #:	469151

TOWER ELEVATION

SHEET NUMBER:	REVISION:
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VERIZON SITE NAME:  
NAUGATUCK WEST CT

SITE ADDRESS:  
880 ANDREW MOUNTAIN ROAD  
NAUGATUCK, CT 06770-3656

SEAL:



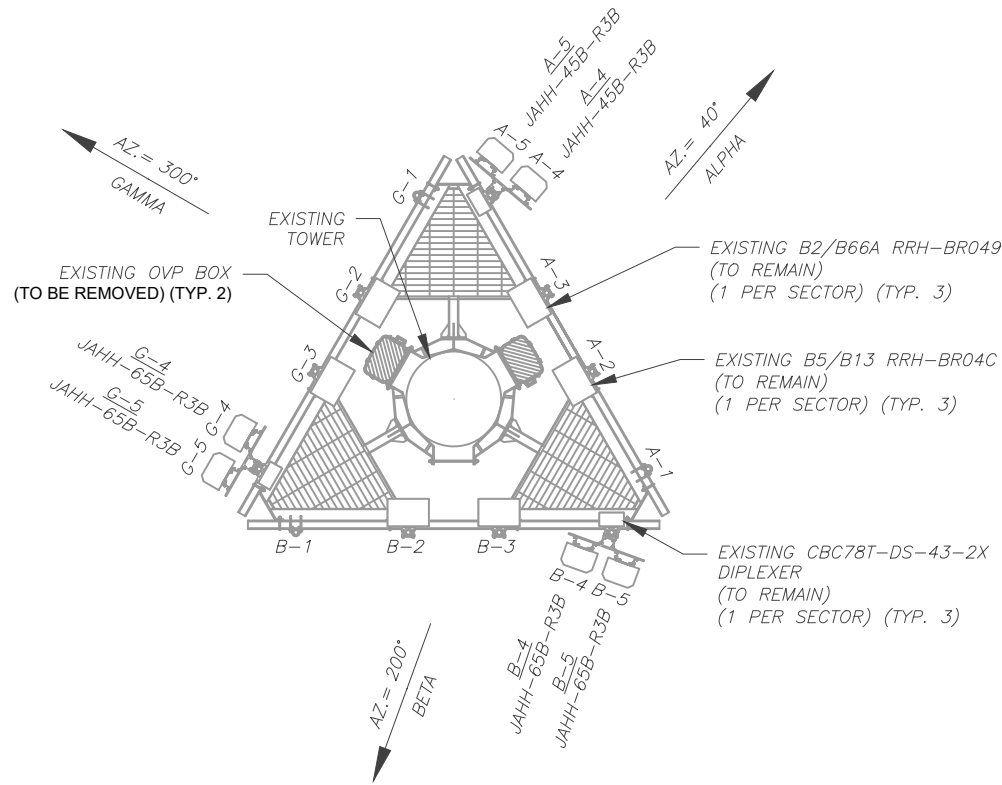
DATE DRAWN:	05/27/21
ATC JOB NO:	13668711_D1
CUSTOMER ID:	NAUGATUCK WEST CT
CUSTOMER #:	469151

ANTENNA INFORMATION & SCHEDULE

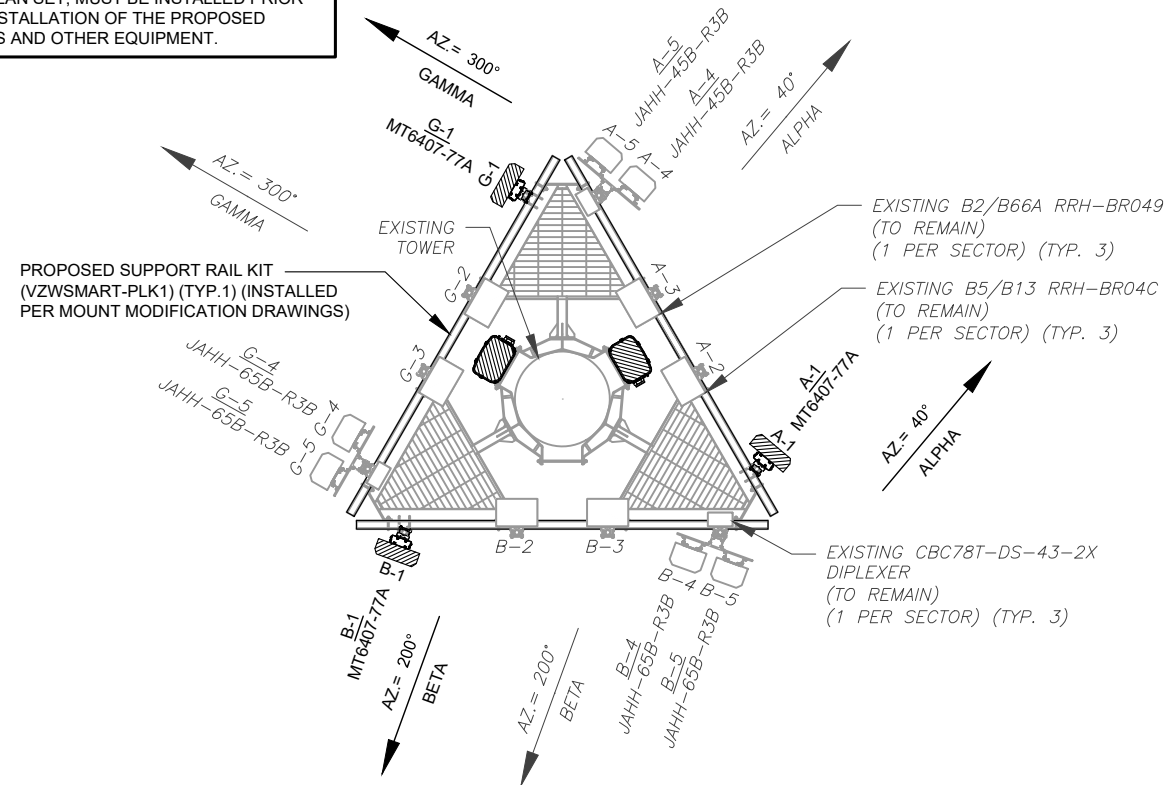
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**C-401**

REVISION:  
**0**

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED 06/11/21, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



1 EXISTING ANTENNA PLAN  
SCALE: N.T.S.



2 FINAL ANTENNA PLAN  
SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	106'	40°	A2	-	-	-	-	B5/B13 RRH-BR04C	RMN
			A3	-	-	-	-	B2/B66A RRH-BR049	RMN
			A4	JAHH-45B-R3B	700/850/1900/AWS	0/13,9,2,2	RMN	CBC78T-DS-43-2X	RMN
			A5	JAHH-45B-R3B	700/850/1900/AWS	0/13,9,2,2	RMN	-	-
			B2	-	-	-	-	B5/B13 RRH-BR04C	RMN
BETA	106'	200°	B3	-	-	-	-	B2/B66A RRH-BR049	RMN
			B4	JAHH-65B-R3B	700/850/1900/AWS	0/8,8,2,2	RMN	CBC78T-DS-43-2X	RMN
			B5	JAHH-65B-R3B	700/850/1900/AWS	0/8,8,2,2	RMN	-	-
GAMMA	106'	300°	C2	-	-	-	-	B5/B13 RRH-BR04C	RMN
			C3	-	-	-	-	B2/B66A RRH-BR049	RMN
			C4	JAHH-65B-R3B	700/850/1900/AWS	0/8,8,2,2	RMN	CBC78T-DS-43-2X	RMN
			C5	JAHH-65B-R3B	700/850/1900/AWS	0/8,8,2,2	RMN	-	-

NOTES

- CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED  
RMN: TO REMAIN  
REL: TO BE RELOCATED  
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

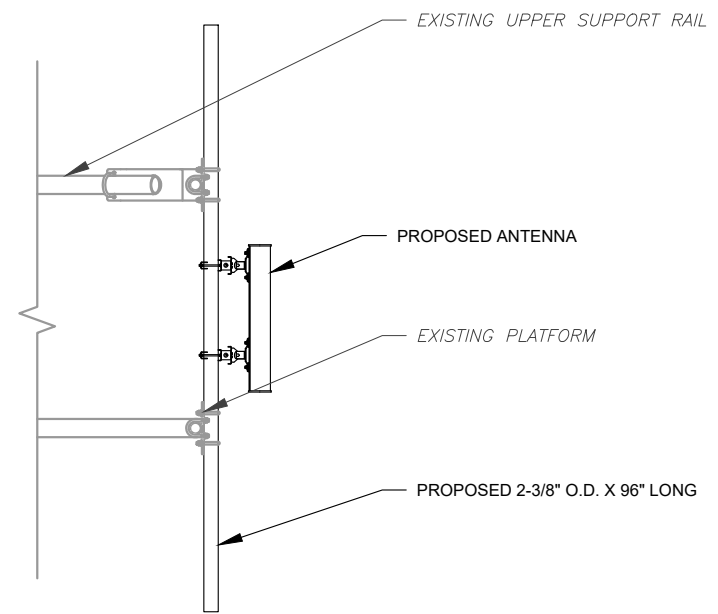
JUNCTION BOX TO RRU: 15'  
RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	106'	40°	A1	MT6407-77A	5G	0/6	ADD	MT6407-77A	ADD
			A2	-	-	-	-	B5/B13 RRH-BR04C	RMN
			A3	-	-	-	-	B2/B66A RRH-BR049	RMN
			A4	JAHH-45B-R3B	700/850/1900/AWS	0/13,9,2,2	RMN	CDC78T-DS-43-2X	RMN
			A5	JAHH-45B-R3B	700/850/1900/AWS	0/13,9,2,2	RMN	-	-
BETA	106'	200°	B1	MT6407-77A	5G	0/6	-	MT6407-77A	ADD
			B2	-	-	-	-	B5/B13 RRH-BR04C	RMN
			B3	-	-	-	-	B2/B66A RRH-BR049	RMN
			B4	JAHH-65B-R3B	700/850/1900/AWS	0/8,8,2,2	RMN	CDC78T-DS-43-2X	RMN
			B5	JAHH-65B-R3B	700/850/1900/AWS	0/8,8,2,2	RMN	-	-
GAMMA	106'	300°	C1	MT6407-77A	5G	0/6	-	MT6407-77A	ADD
			C2	-	-	-	-	B5/B13 RRH-BR04C	RMN
			C3	-	-	-	-	B2/B66A RRH-BR049	RMN
			C4	JAHH-65B-R3B	700/850/1900/AWS	0/8,8,2,2	RMN	CDC78T-DS-43-2X	RMN
			C5	JAHH-65B-R3B	700/850/1900/AWS	0/8,8,2,2	RMN	-	-

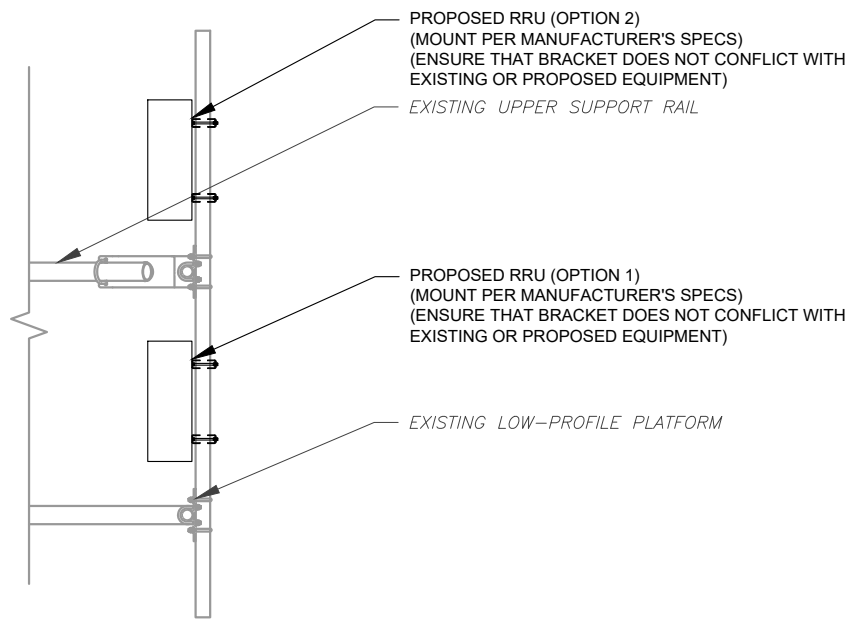
EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) OVP-6	RMV	-	(2) 1-5/8" 6X12	RMV

3 EQUIPMENT SCHEDULES

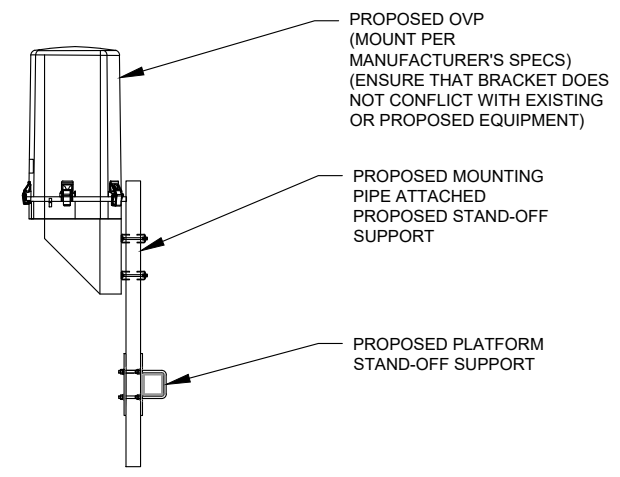
FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) OVP-6	ADD	-	(2) 1-5/8" 6X12	ADD



1 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL  
SCALE: N.T.S.



2 PROPOSED RRU MOUNTING DETAIL - TYPICAL  
SCALE: N.T.S.



3 PROPOSED OVP MOUNTING  
SCALE: N.T.S.



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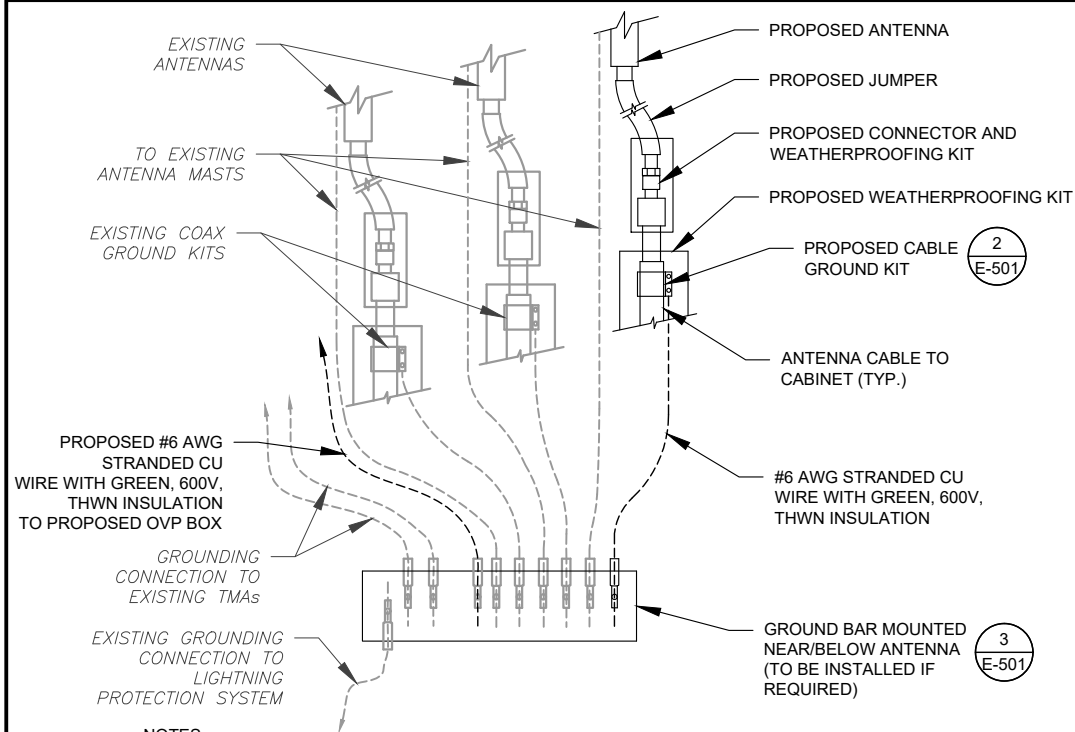


DATE DRAWN:	05/27/21
ATC JOB NO:	13668711_D1
CUSTOMER ID:	NAUGATUCK WEST CT
CUSTOMER #:	469151

CONSTRUCTION  
DETAILS

SHEET NUMBER:	REVISION:
C-501	0

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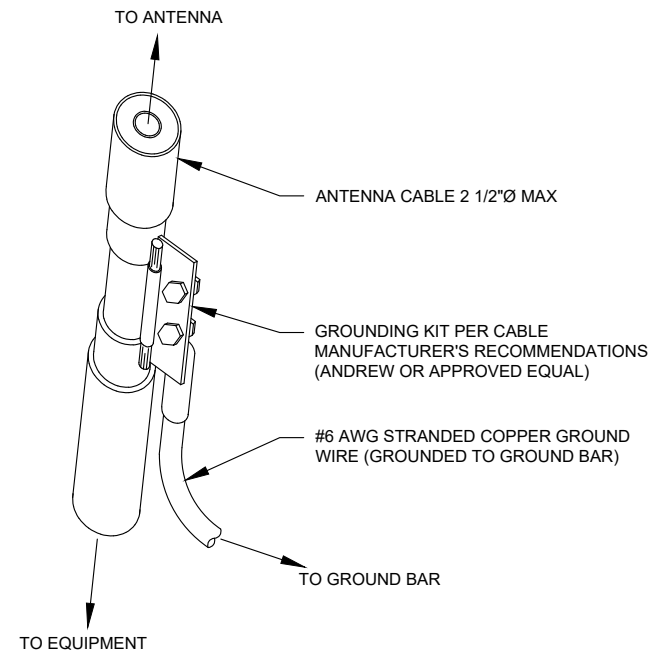


**NOTES:**

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

**1 TYPICAL ANTENNA GROUNDING DIAGRAM**

SCALE: N.T.S.

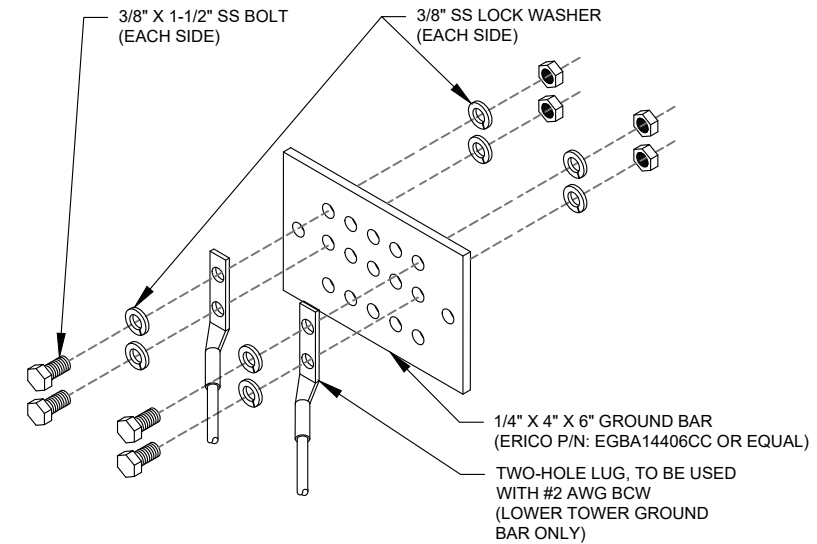


**GROUND KIT NOTES:**

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

**2 CABLE GROUND KIT CONNECTION DETAIL**

SCALE: N.T.S.



**GROUND BAR NOTES:**

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

**3 TOWER GROUND BAR DETAIL**

SCALE: N.T.S.



**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICE, PLLC**  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 COA: PEC.0001553

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	MR	05/28/21
0	FINAL	EMA	06/28/21

ATC SITE NUMBER:  
283423

ATC SITE NAME:  
NAUGATUCK CT

VERIZON SITE NAME:  
NAUGATUCK WEST CT

SITE ADDRESS:  
880 ANDREW MOUNTAIN ROAD  
NAUGATUCK, CT 06770-3656

SEAL:



DATE DRAWN:	05/27/21
ATC JOB NO:	13668711_D1
CUSTOMER ID:	NAUGATUCK WEST CT
CUSTOMER #:	469151

**GROUNDING DETAILS**

SHEET NUMBER:  
**E-501**

REVISION:  
**0**

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

## Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10068865  
Maser Consulting Connecticut Project #: 21777437A

June 11, 2021

### Site Information

Site ID: 469151-VZW / NAUGATUCK WEST CT  
Site Name: NAUGATUCK WEST CT  
Carrier Name: Verizon Wireless  
Address: 880 Andrew Mountain Rd  
Naugatuck, Connecticut 06770  
New Haven County  
Latitude: 41.484453°  
Longitude: -73.089844°

### Structure Information

Tower Type: Monopole  
Mount Type: 12.50-Ft Platform

FUZE ID # 16244107

### Analysis Results

Platform: 42.5% 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

Report Prepared By: Abigail Enriquez



Mount Post-Modification Analysis Report  
(1) 12.50-Ft Platform

June 11, 2021  
Site ID: 469151-VZW / NAUGATUCK WEST CT  
Page | 4

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

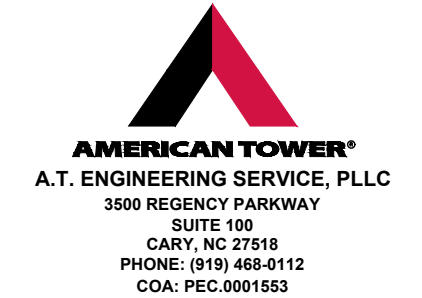
### Analysis Results:

Component	Utilization %	Pass/Fail
Mod Support Rail Corner	28.4%	Pass
Mod Support Rail	18.7%	Pass
Mount Pipe	40.3%	Pass
Face Horizontal	14.0%	Pass
Corner Plate	14.8%	Pass
Cross Arm Plate	31.4%	Pass
Grating Support	9.4%	Pass
Platform Crossmember	15.7%	Pass
Standoff Horizontal	32.9%	Pass
Connection Check	42.5%	Pass
<b>Structure Rating – (Controlling Utilization of all Components)</b>		<b>42.5%</b>

### 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.



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ATC SITE NAME:  
NAUGATUCK CT

VERIZON SITE NAME:  
NAUGATUCK WEST CT

SITE ADDRESS:  
880 ANDREW MOUNTAIN ROAD  
NAUGATUCK, CT 06770-3656



DATE DRAWN: 05/27/21  
ATC JOB NO: 13668711\_D1  
CUSTOMER ID: NAUGATUCK WEST CT  
CUSTOMER #: 469151

SUPPLEMENTAL

SHEET NUMBER:  
**R-601**

1 MOUNT ANALYSIS

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

# PROJECT NOTES

1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).



## MOUNT MODIFICATION DRAWINGS EXISTING 12.50' PLATFORM

**SITE NAME: NAUGATUCK WEST CT  
SITE NUMBER: 469151**

**880 ANDREW MOUNTAIN RD  
NAUGATUCK, CT 06770  
NEW HAVEN COUNTY**

PROJECT INFORMATION	
<b>SITE INFORMATION</b>	
LATITUDE:	41.484453° N
LONGITUDE:	73.089844° W
JURISDICTION:	NEW HAVEN COUNTY
<b>APPLICANT/LESSEE</b>	
COMPANY:	VERIZON WIRELESS
<b>CLIENT REPRESENTATIVE</b>	
COMPANY:	VERIZON WIRELESS
ADDRESS:	118 FLANDERS ROAD, THIRD FLOOR
CITY, STATE, ZIP:	WESTBOROUGH, MA 01581
CONTACT:	ANDREW CANDIELLO
EMAIL:	ANDREW.CANDIELLO@VERIZONWIRELESS.COM
<b>PROJECT MANAGER</b>	
COMPANY:	MASER CONSULTING
CONTACT:	PETER ALBANO
PHONE:	(856) 797-0412
E-MAIL:	PETER.ALBANO@COLLIERSENGINEERING.COM

SHEET INDEX	
SHEET	DESCRIPTION
T-1	TITLE SHEET
S-1	BILL OF MATERIALS
S-2	MODIFICATION NOTES
S-3	MODIFICATION NOTES
S-4	MODIFICATION DETAILS
S-5	MODIFICATION DETAILS
S-6	MOUNT PHOTOS
	SPECIFICATION SHEETS

CONTRACTOR PMI REQUIREMENTS	
PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10068865
VZW LOCATION CODE (PSLC):	469151
FUZE ID:	16244107

REFERENCED DOCUMENTS	
	FAILING MOUNT ANALYSIS REPORT
SMART TOOL PROJECT #:	10050381
MASER CONSULTING PROJECT #:	21777437A
ANALYSIS DATE:	5/5/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

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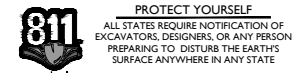
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06/11/2021

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469151  
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NAUGATUCK, CT 06770  
NEW HAVEN COUNTY



SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

# BILL OF MATERIALS

VZWSMART KITS					
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	
1	VZWSMART	VZWSMART-PLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2	
OTHER REQUIRED PARTS					
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	

**NOTE: ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR**

VZWSMART KITS - APPROVED VENDORS	
<b>COMMSCOPE</b>	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
<b>METROSITE FABRICATORS, LLC</b>	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
<b>PERFECTVISION</b>	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSALES@PERFECT-VISION.COM
<b>SABRE INDUSTRIES, INC.</b>	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
<b>SITE PRO 1</b>	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

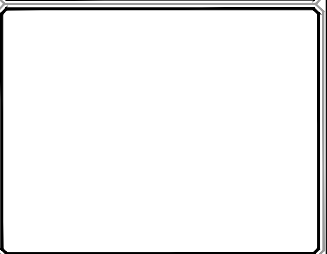
NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI



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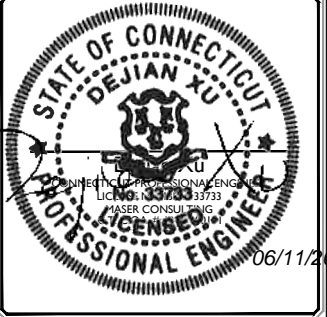
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 NEW HAVEN COUNTY



**MASER CONSULTING CONNECTICUT**  
 2000 Midlantic Drive  
 Suite 100  
 Mt. Laurel, NJ 08054  
 Phone: 815.797.0412

SHEET TITLE:  
**BILL OF MATERIALS**

SHEET NUMBER:  
**S-1**

By: JFASOR 16/04/2021 10:45:13 AM NAUGATUCK WEST CT HomeNet Drawing 31007.dwg

**GENERAL NOTES**

- 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.
- 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 OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS 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.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- 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 ANSITIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSITIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- 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 OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
- 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, ANSITIA-322.
- CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
- CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS 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.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
- THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

**DESIGN LOADS**

- WIND LOADS
- BASIC WIND SPEED (3 SECOND GUST), V = 117 MPH
  - EXPOSURE CATEGORY B
  - TOPOGRAPHIC CATEGORY I
  - MEAN BASE ELEVATION (AMSL) = 854.54'

- ICE LOADS
- ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
  - ICE THICKNESS = 1.00 IN

- SEISMIC LOADS
- SEISMIC DESIGN CATEGORY B
  - SHORT TERM MCER GROUND MOTION, S<sub>s</sub> = .196
  - LONG TERM MCER GROUND MOTION, S<sub>l</sub> = .054

**STRUCTURAL STEEL**

- DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
  - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
  - AISC CODE OF STANDARD PRACTICE
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

- |                                |                          |
|--------------------------------|--------------------------|
| CHANNELS, ANGLES, PLATES, ETC. | ASTM A36 (GR 36)         |
| STEEL PIPE                     | ASTM A53 (GR 35)         |
| BOLTS                          | ASTM A325                |
| NUTS                           | ASTM A563                |
| LOCK WASHERS                   | LOCKING STRUCTURAL GRADE |

- 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 REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
  - SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
  - PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
- 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.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BE DIPPED 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.
- 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.
- 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.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.

- 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).
- ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.



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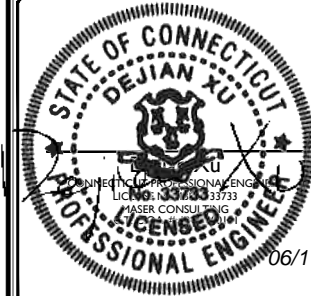

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**SITE NAME:**

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469151  
880 ANDREW MOUNTAIN RD  
NAUGATUCK, CT 06770  
NEW HAVEN COUNTY



MASER CONSULTING CONNECTICUT  
2000 Midlantic Drive  
Suite 100  
Mt. Laurel, NJ 08054  
Phone: 813.797.0412

SHEET TITLE: **MODIFICATION NOTES**

SHEET NUMBER: **S-2**

By: PFAUER (6/16/2021) NAUGATUCK WEST CT HomeNet Drawing 31007.dwg

MODIFICATION INSPECTION NOTES

MI CHECKLIST	
CONSTRUCTION/ INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
PRE-CONSTRUCTION	
X	MI CHECKLIST DRAWING
X	EOR 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	VZW 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 CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, 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 ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING 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 EFFICIENCY 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 GC AND 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 FOUNDATION INSPECTIONS TO ALLOW THE FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE 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 MAY 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 MI'S

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REMEDIATION PLAN:

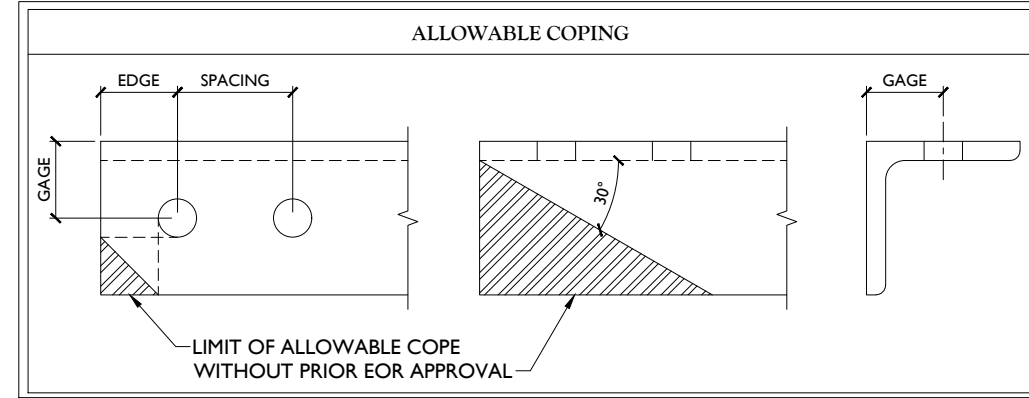
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

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:

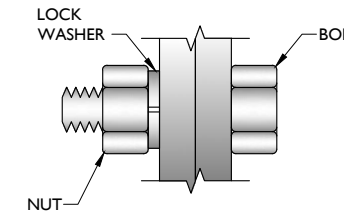
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
  - RAW MATERIALS
  - PHOTOS OF ALL CRITICAL DETAILS
  - FOUNDATION MODIFICATIONS
  - WELD PREPARATION
  - BOLT INSTALLATION
  - FINAL INSTALLED CONDITION
  - SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
  - FINAL INFIELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 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

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 AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC 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.

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STATE OF CONNECTICUT  
 DEJIAN XU  
 LICENSED PROFESSIONAL ENGINEER  
 LICENSE NO. 33783-33733  
 MASER CONSULTING  
 06/11/2021

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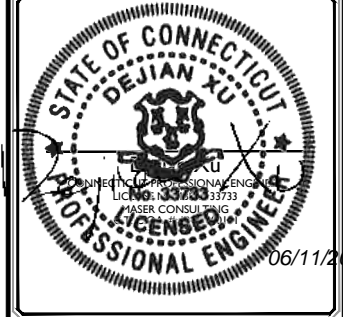
SHEET TITLE:  
 MODIFICATION NOTES

SHEET NUMBER:  
 S-3



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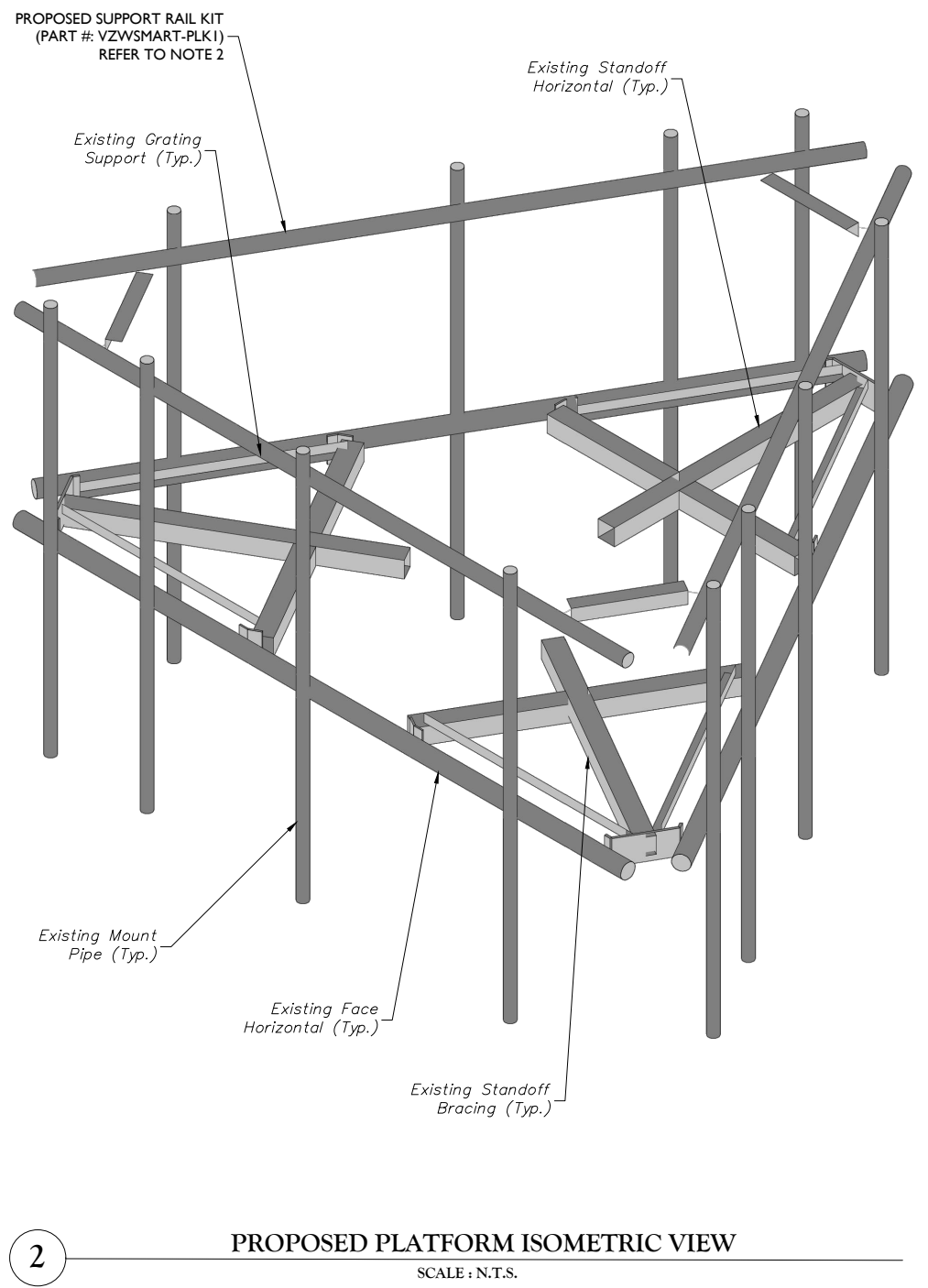
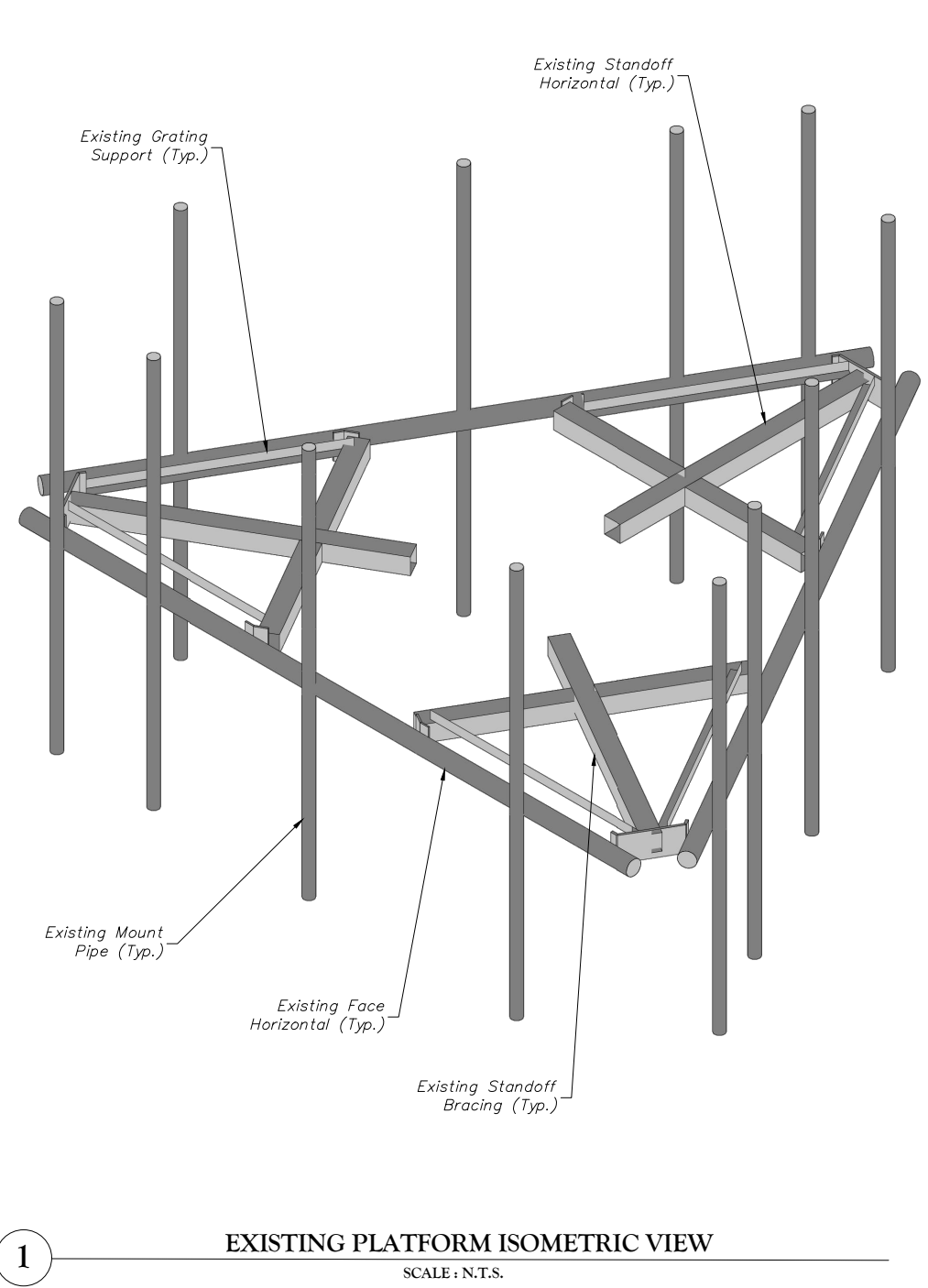
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SHEET TITLE:  
**MODIFICATION DETAILS**

SHEET NUMBER:  
**S-4**



**STRUCTURAL NOTES:**

- PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN AND ENGINEERING LLC ON 3/30/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (103'-10") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- 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.

**MODIFICATION NOTES:**

- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- RADIO AND/OR TME 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.



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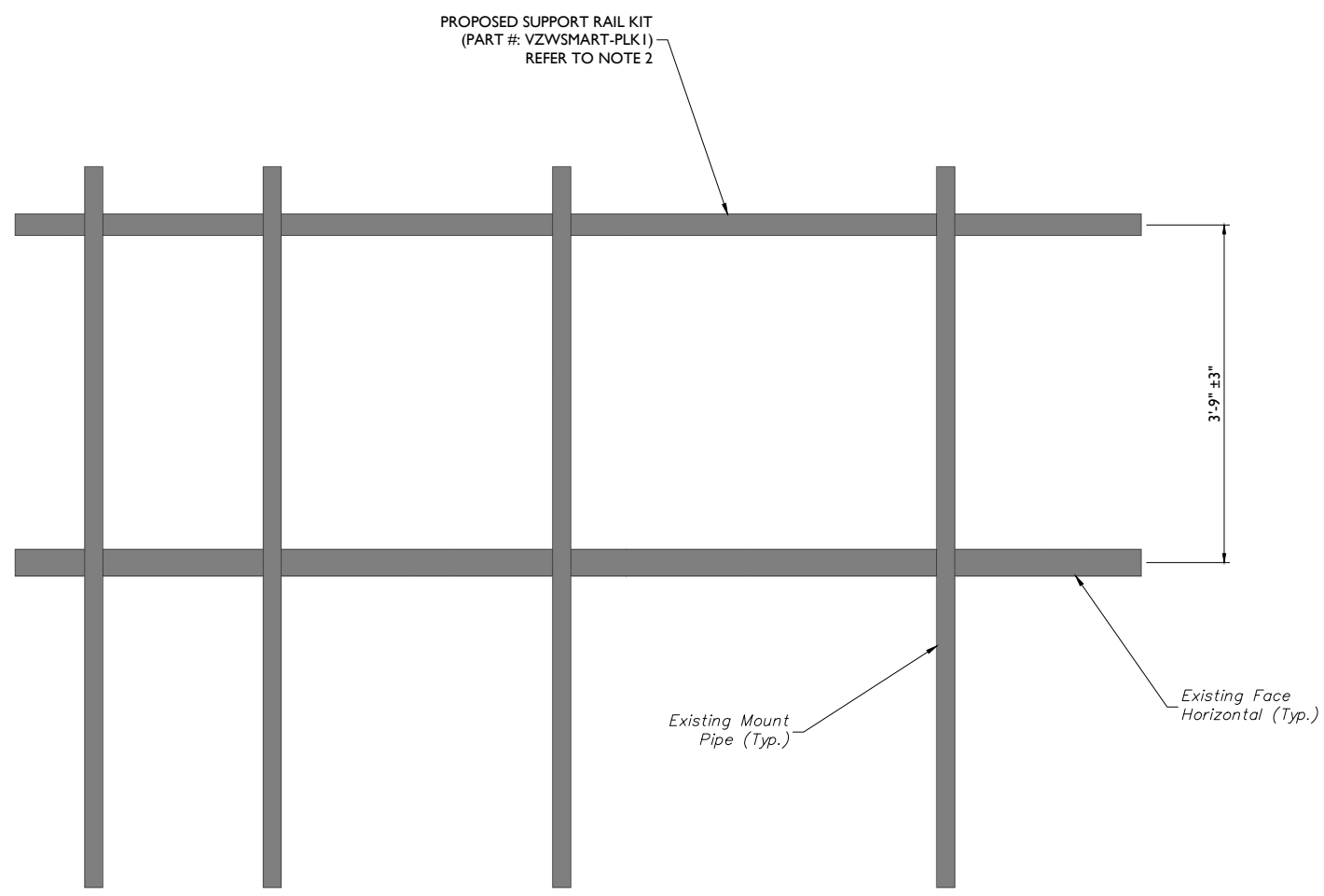
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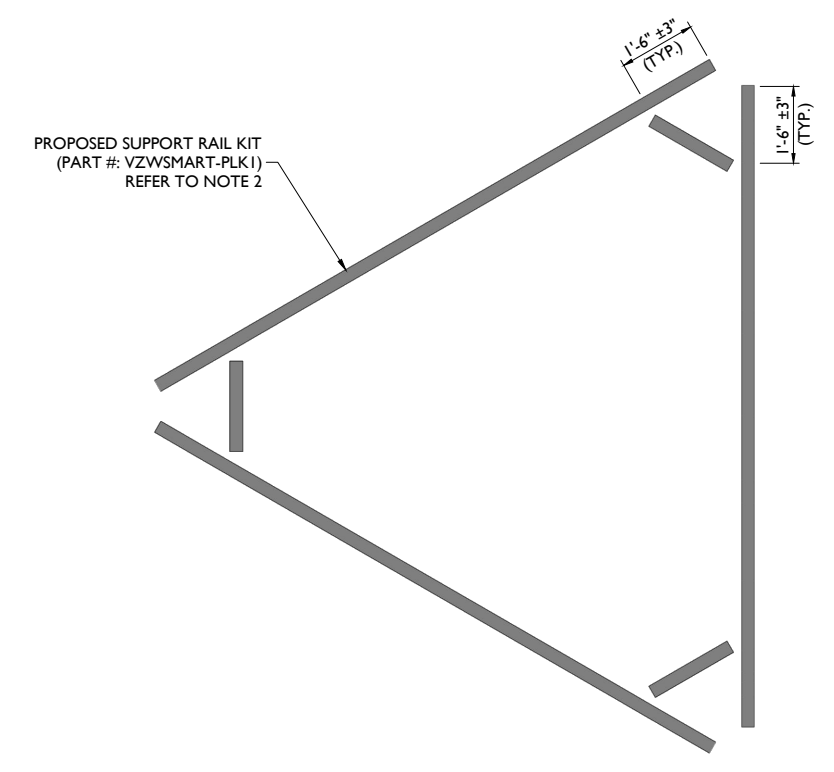
SHEET NUMBER:  
**S-5**



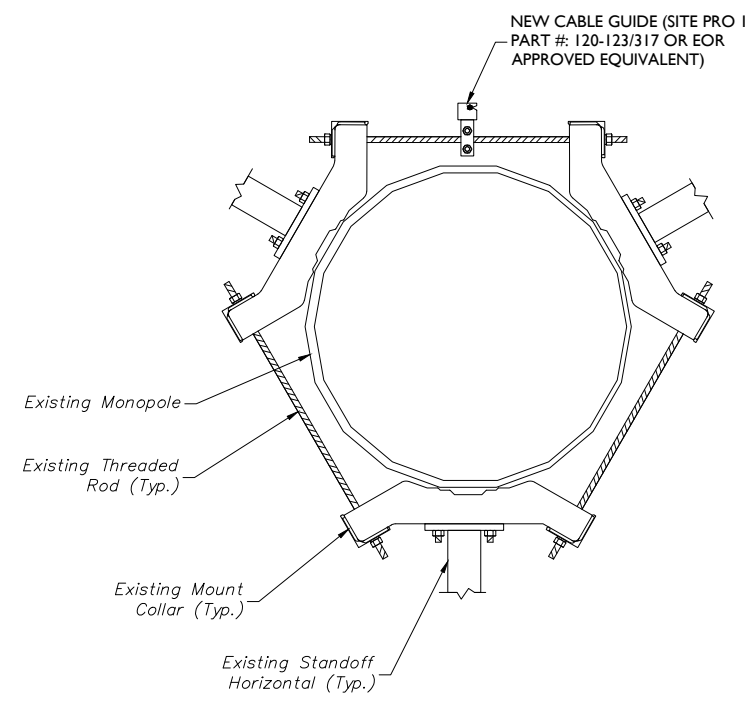
**1** PROPOSED FRONT ELEVATION VIEW (TYP. EACH SECTOR)  
 SCALE: N.T.S.

**MODIFICATION NOTES:**

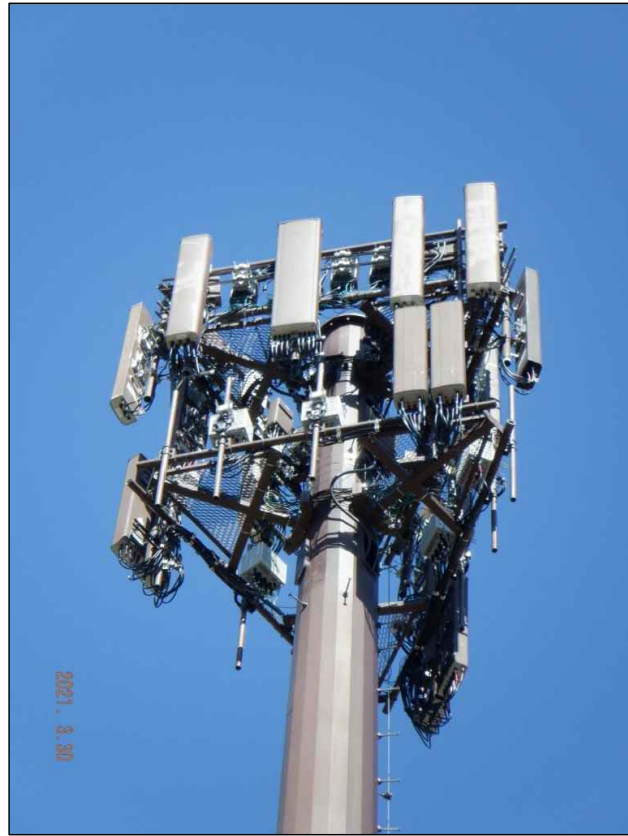
1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.



**2** PROPOSED FRAME PLAN VIEW  
 SCALE: N.T.S.



**3** PROPOSED THREADED ROD SAFETY CLIMB ATTACHMENT  
 SCALE: N.T.S.



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4



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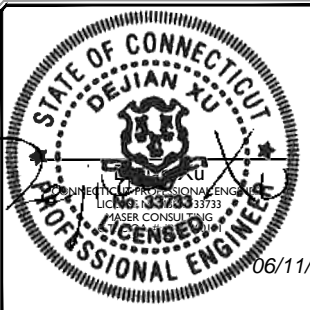
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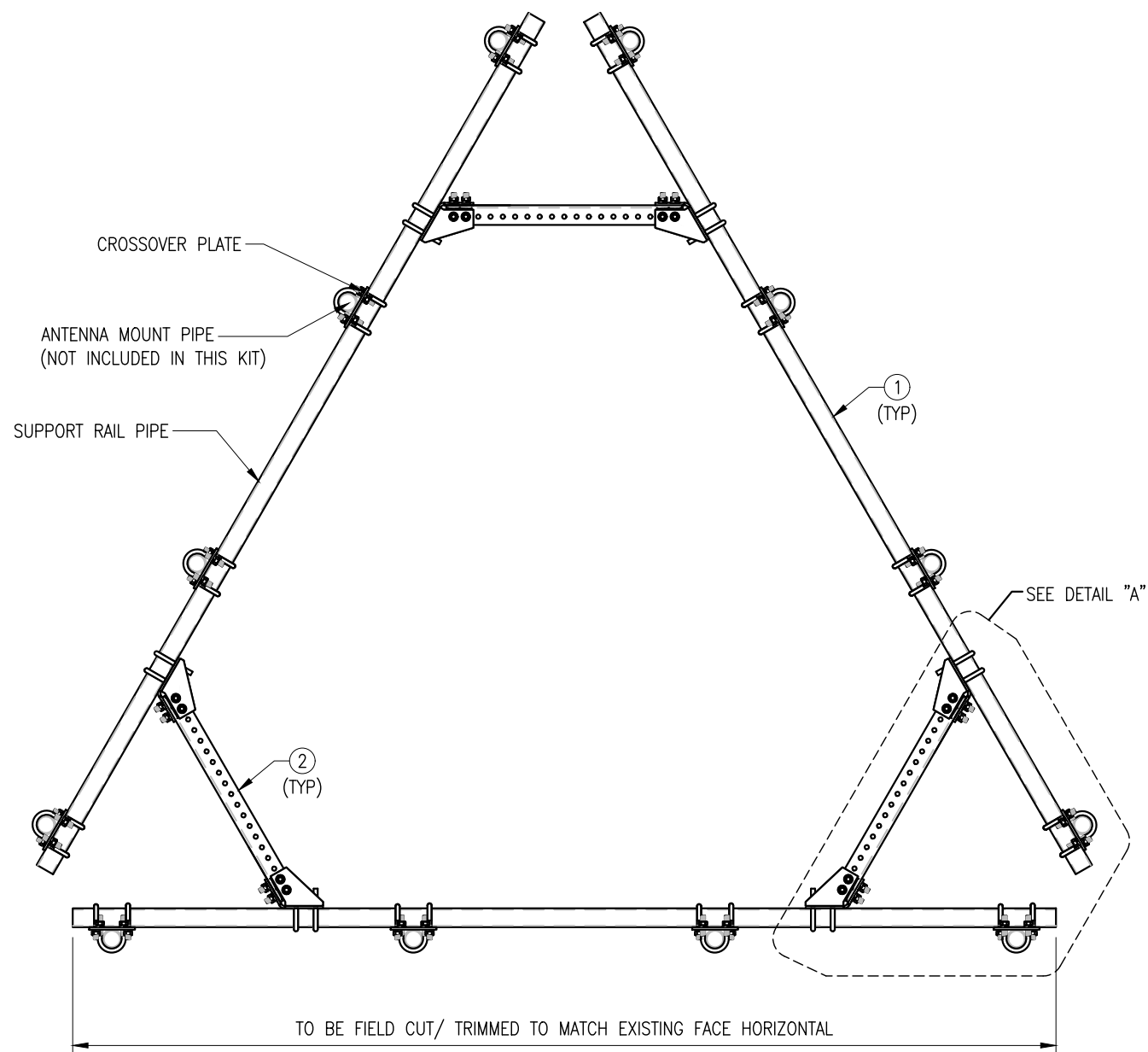


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MOUNT PHOTOS

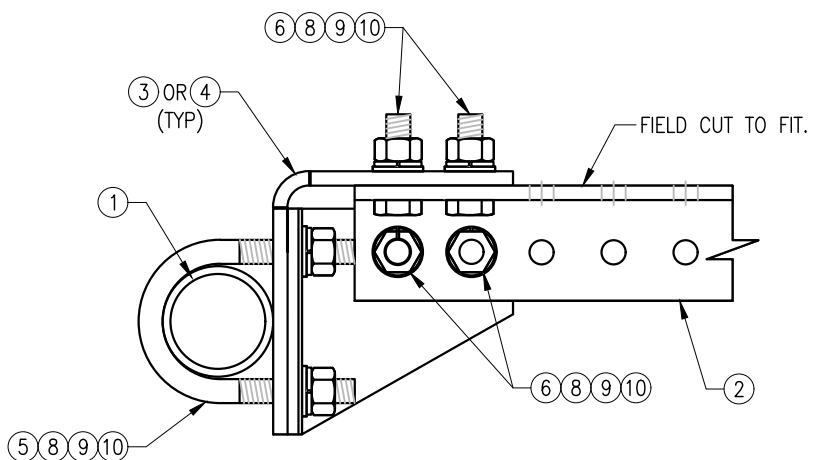
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S-6

M:\Projects\164164151-NAUGATUCK WEST CT\Mount Photos Drawing\_31007.dwg 3/30/2021 By: JRF/MS

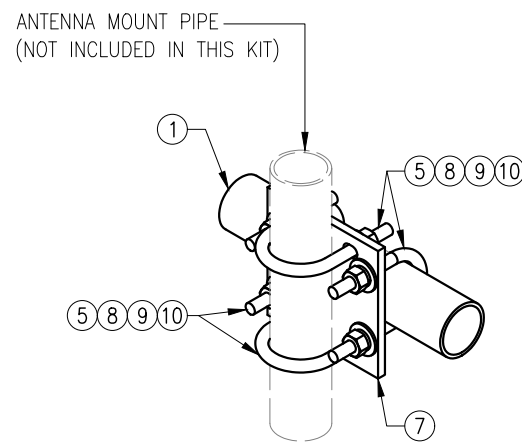




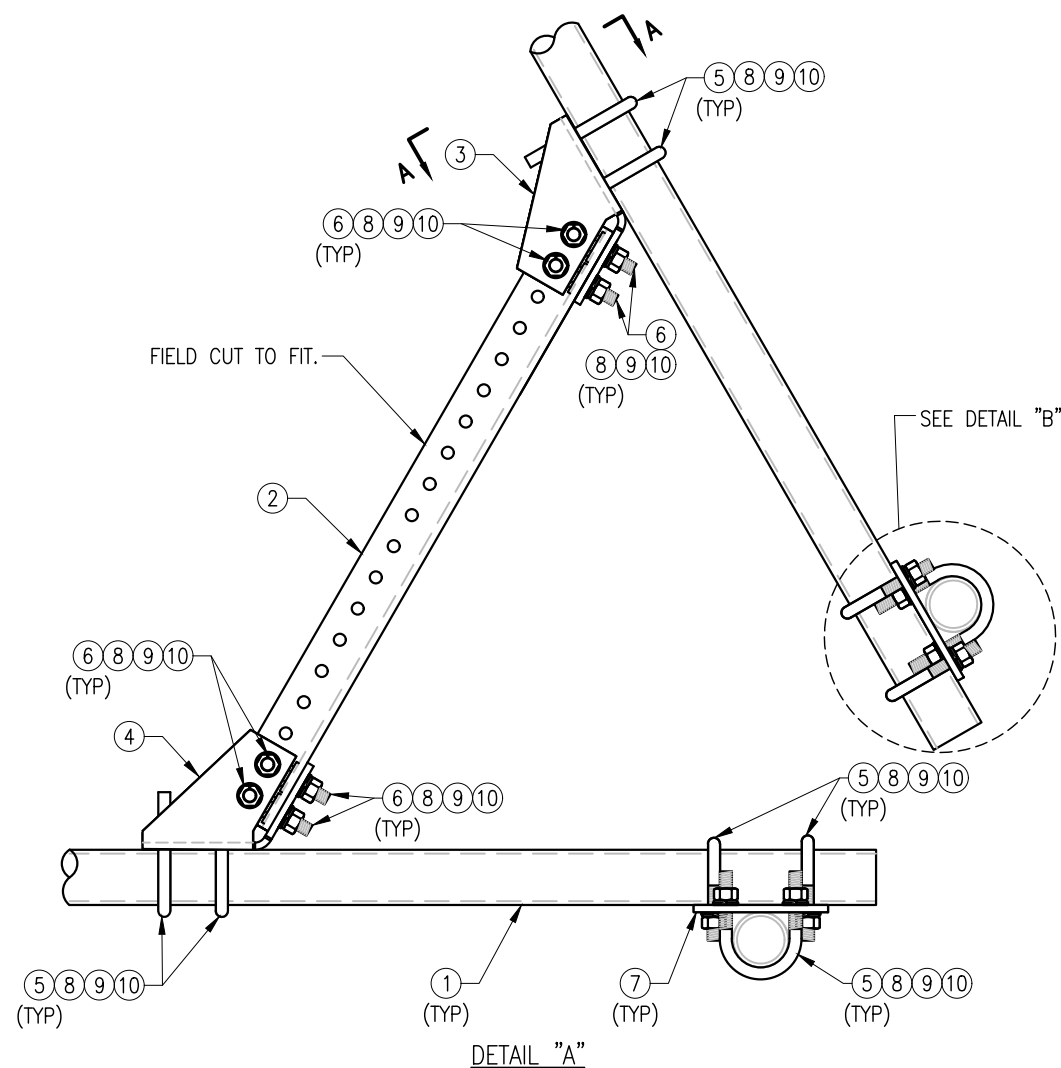
PLAN VIEW



SECTION "A-A"



DETAIL "B"



DETAIL "A"

NOTES:

1. HOT-DIPPED GALVANIZED PER ASTM A123.

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ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	82
6	24	---	BOLT 5/8" X 2" A325	---	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	PLK1-F3	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12
9	144	LW-625	5/8" HDG LOCK WASHER	---	3
10	144	NUT-625	5/8" HDG HEX NUT	---	17
GALVANIZED WT					504

DRAWN BY: H.R. CHECKED BY: HMA

REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	H.R.	05/08/20
△			
△			
△			

SHEET TITLE:

VZWSMART-PLK1  
 SUPPORT RAIL KIT

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