



June 14, 2022

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

Re: Tower Share Application – Dish Site 13712876
Dish Wireless Telecommunications Facility @ 23 Stonybrook Road, Stratford, CT 06614

Dear Ms. Bachman,

Enclosed please find three (3) sets of Tower Share applications for the above referenced site and filing a fee check in the amount of Six Hundred Twenty Five Dollars (\$625.00).

A pdf copy of these same documents will be emailed to your office this day.

As always, if you have any questions or comments, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jack Andrews', is written over the typed name and title.

Jack Andrews
Zoning Manager, Centerline Communications
10130 Donleigh Drive
Columbia, MD 21046
443-677-0144

Enclosures: Tower Share Application Letter
Exhibit 1 – Letter of Authorization from tower owner
Exhibit 2 – Property Card - GIS Map
Exhibit 3 – Construction Drawings
Exhibit 4 – Structural Analysis Report
Exhibit 5 – Antenna Mount Analysis Report
Exhibit 6 – EME Study Report
Exhibit 7 – Four Notice Delivery Confirmations



June 9, 2022

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

Re: Tower Share Application – Dish Site 13712876
Dish Wireless Telecommunications Facility @ 23 Stonybrook Road, Stratford, CT 06614

Dear Ms. Bachman,

Dish Wireless (“Dish”) is proposing a new wireless telecommunications facility on an existing one hundred and nineteen (119) foot tall monopole tower at 23 Stonybrook Road, Stratford, CT 06614 (Latitude: 41.20327777, Longitude: -73.148625) and within the existing fenced compound. The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Stonybrook Management LLC. The tower was approved by the Council on February 25, 2010, in Docket Number 385, a copy of which is enclosed.

Dish proposes to install a five (5) foot by seven (7) foot metal platform within the existing fenced compound and install three (3) antennas, a single antenna mount, six (6) RRUs, and cables on the existing tower at one hundred seven feet (107.0’) AGL as more particularly detailed and described on the enclosed Construction Drawings. No height extension or compound expansion are proposed.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies 16-50aa, of Dish's intent to share a telecommunications facility pursuant to R.C.S.A. 16-50j-88. In accordance with R.C.S.A §16-50j-73, a copy of this letter is being sent to the following individuals: American Tower Corporation as Tower Operator/Owner; Stonybrook Management LLC as Property Owner; the Honorable Laura R. Hoydick, the Mayor of Stratford and Jay Habansky, the Planning & Zoning Administrator. The applicant’s proposal falls squarely within those activities explicitly provided for in R.C.S.A. §16-50j-89. Specifically:

1. The proposed modifications will NOT result in an increase in the height of the existing structure.
2. The proposed modifications will NOT require an extension of the site boundary.



3. The proposed modifications will NOT increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will NOT increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. Please see the RF emissions calculation for Dish's proposed facility enclosed herewith.
5. The proposed modifications will NOT cause an ineligible change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading. Please see the structural analysis enclosed herewith.

Connecticut General Statute 16-50aa indicates that the Council must approve the shared use of a telecommunications facility provided it finds the shared use is technically, legally, environmentally, and economically feasible and meets public safety concerns. As demonstrated in this letter, Dish respectfully indicates that the shared use of this facility satisfies these criteria:

- A. **Technical Feasibility.** The existing monopole has been deemed structurally capable of supporting Dish's proposed loading (see attached Structural Analysis).
- B. **Legal Feasibility.** As referenced above, C.G.S. 16-50aa has been authorized to issue orders approving the shared use of an existing tower. Under the authority granted to the Council, an order of the Council approving the requested shared use would permit Dish to obtain a building permit for the proposed installation. Further, a Letter of Authorization is attached, authorizing Dish to file this application for shared use.
- C. **Environmental Feasibility.** The proposed shared use of this facility would have a minimal environmental impact. The installation of Dish equipment on the existing tower would have an insignificant visual impact on the area around the tower. Dish ground equipment would be installed within the existing facility compound. The shared use would therefore not cause any significant alteration in the physical or environmental characteristics of the existing site. Additionally, as evidenced by the attached EME study, the proposed antennas would not increase radio frequency emissions to a level at or above the Federal Communications Commission safety standard.
- D. **Economic Feasibility.** Dish will be entering into an agreement with the owner of this facility to mutually agreeable terms. As previously mentioned, the Letter of Authorization has been provided by the owner to assist Dish with this tower sharing application.
- E. **Public Safety Concerns.** As discussed above, the tower is structurally capable of supporting the proposed loading. Dish is not aware of any public safety concerns relative to the proposed sharing of the existing tower. Dish's intentions of providing new and improved wireless service through the shared use of this facility is expected to enhance the safety and welfare of local residents and individuals traveling through the area.



For the foregoing reasons, Dish respectfully requests that the Council approve this request for the shared use of this tower located at 23 Stonybrook Road, Stratford, CT 06614.

If you have any questions, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jack Andrews', with a large, stylized flourish extending to the right.

Jack Andrews
Zoning Manager, Centerline Communications
10130 Donleigh Drive
Columbia, MD 21046
443-677-0144

Enclosures: Exhibit 1 – Letter of Authorization from tower owner
Exhibit 2 – Property Card/GIS Page
Exhibit 3 – Construction Drawings
Exhibit 4 – Structural Analysis Report
Exhibit 5 – Antenna Mount Analysis Report
Exhibit 6 – EME Study Report
Exhibit 7 – Original Tower Approval
Exhibit 8 – (4) Notice Confirmations

cc: American Tower Corporation - Tower Operator/Owner
Stoneybrook Management LLC - Property Owner
The Honorable Laura R. Hoydick - the Mayor of Stratford
Jay Habansky – Stratford Planning & Zoning Administrator



AMERICAN TOWER®
CORPORATION

LETTER OF AUTHORIZATION

ATC SITE#/NAME/PROJECT: 283420/ STONEYBROOK RD CT/ 13712876
SITE ADDRESS: 283420 STONEYBROOK ROAD, STRATFORD CT 06614-3715
LICENSEE: DISH WIRELESS L.L.C DBA DISH WIRELESS L.L.C

I, Margaret Robinson, Vice President, Legal for American Tower*, owner/operator of the tower facility located at the address identified above (the “Tower Facility”), do hereby **DISH WIRELESS L.L.C DBA DISH WIRELESS L.L.C, Centerline Communications** their successors and assigns, and/or their agent, (collectively, the “Licensee”) to act as American Tower’s non-exclusive agent for the sole purpose of filing and consummating any land-use, building, or electrical permit application(s) as may be required by the applicable permitting authorities for Licensee’s telecommunications’ installation on the Tower Facility.

American Tower understands that this application may be denied, modified or approved with conditions. The above authorization is limited to the acceptance by Licensee only of conditions related to Licensee’s installation and any such conditions of approval or modifications will be Licensee’s sole responsibility.

Signature:

Print Name: Margaret Robinson
Vice President, Legal
American Tower*

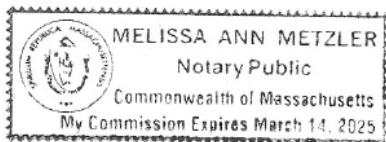
NOTARY BLOCK

Commonwealth of MASSACHUSETTS
County of Middlesex

This instrument was acknowledged before me by Margaret Robinson, Senior Counsel for American Tower*, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same.

WITNESS my hand and official seal, this 10th day of June 2022

NOTARY SEAL



Notary Public
My Commission Expires: March 14, 2025

* American Tower is defined as American Tower Corporation and any of its affiliates or subsidiaries.



☆ ParcelID: 3011100016

Owner Name: STONYBROOK MANAGEMENT LLC
Address: 23 STONYBROOK RD

[Field Card](#)
[Zoom to Feature](#)
[Buffer Feature](#)

Is this property within or in close proximity to a FEMA Special Flood Hazard Zone? YES

Click [here](#) to toggle the Flood Hazard Area Layer.
Click [here](#) for more information.
Click [here](#) for FEMA Map Service Center address link.

I want to...

☆ ParcelID: 3011100013

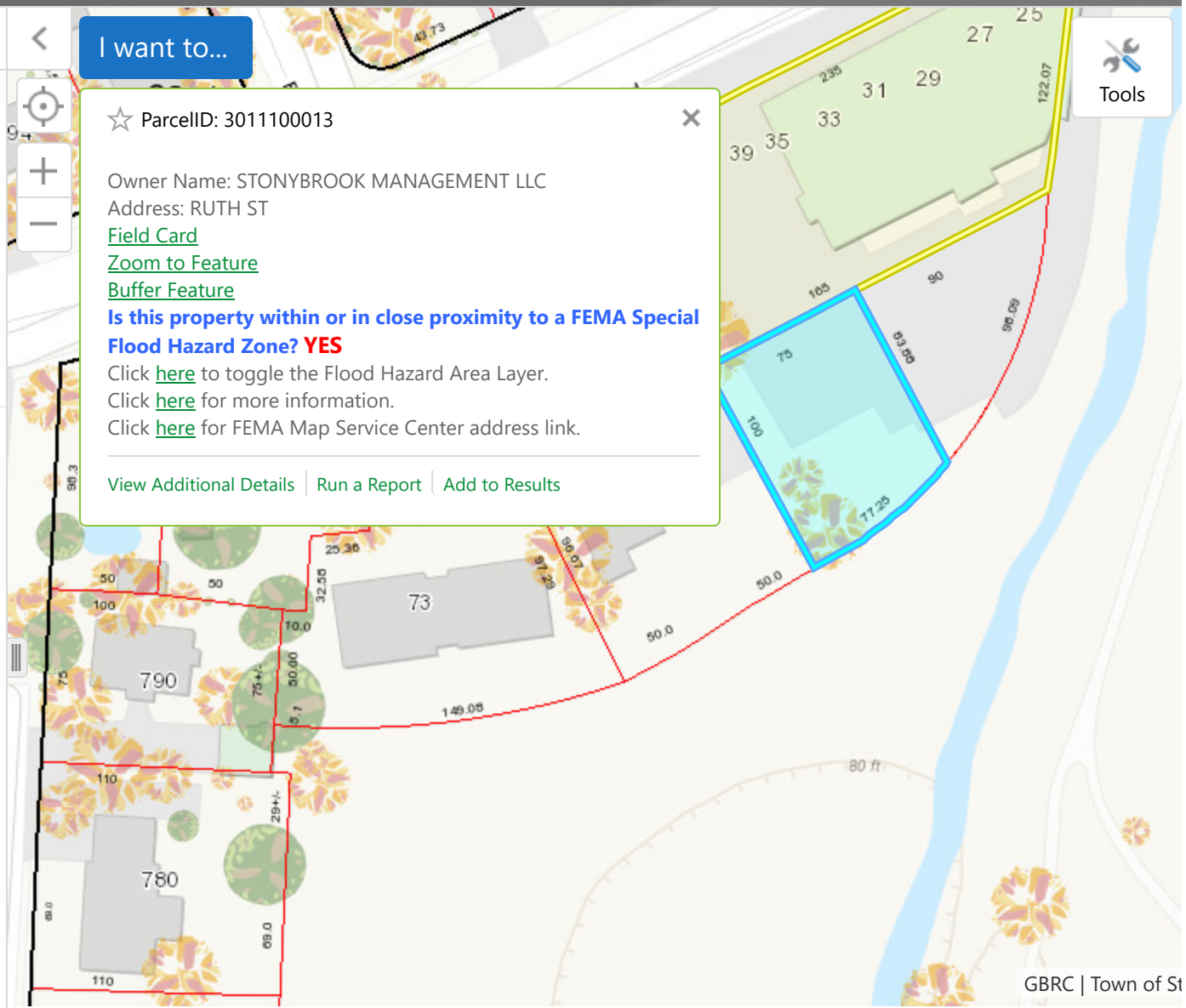
Owner Name: STONYBROOK MANAGEMENT LLC
Address: RUTH ST

[Field Card](#)
[Zoom to Feature](#)
[Buffer Feature](#)

Is this property within or in close proximity to a FEMA Special Flood Hazard Zone? YES

Click [here](#) to toggle the Flood Hazard Area Layer.
Click [here](#) for more information.
Click [here](#) for FEMA Map Service Center address link.

[View Additional Details](#) | [Run a Report](#) | [Add to Results](#)

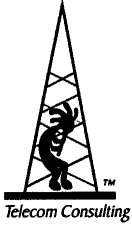


Tools

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◀ ◀ Page 1 of 1 ▶ ▶





Pinnacle Telecom Group

Professional and Technical Services

ANTENNA SITE FCC RF COMPLIANCE ASSESSMENT AND REPORT FOR MUNICIPAL SUBMISSION



PREPARED FOR:

Dish Wireless, LLC

SITE ID:

NJER02048A

SITE ADDRESS:

23 Stonybrook Road
Stratford, CT

LATITUDE:

N 41.2032777

LONGITUDE:

W 73.148625

STRUCTURE TYPE:

Monopole

REPORT DATE:

MARCH 11, 2022

COMPLIANCE CONCLUSION:

Dish Wireless, LLC will be in compliance with the rules and regulations as described in OET Bulletin 65, following the implementation of the proposed mitigation as detailed in the report.

14 Ridgedale Avenue - Suite 260 • Cedar Knolls, NJ 07927 • 973-451-1630

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CERTIFICATION

APPENDIX A. DOCUMENTS USED TO PREPARE THE ANALYSIS

APPENDIX B. BACKGROUND ON THE FCC MPE LIMIT

APPENDIX C. PROPOSED SIGNAGE

APPENDIX D. SUMMARY OF EXPERT QUALIFICATIONS

INTRODUCTION AND SUMMARY

At the request of Dish Wireless, LLC (“Dish”), Pinnacle Telecom Group has performed an independent expert assessment of radiofrequency (RF) levels and related FCC compliance for proposed wireless base station antenna operations on an existing monopole located at 23 Stonybrook Road in Stratford, CT. Dish refers to the antenna site by the code “NJJER02048A”, and its proposed operation involves directional panel antennas and transmission in the 600 MHz, 2000 MHz and 2100 MHz frequency bands licensed to it by the FCC.

The FCC requires all wireless antenna operators to perform an assessment of potential human exposure to radiofrequency (RF) fields emanating from all the transmitting antennas at a site whenever antenna operations are added or modified, and to ensure compliance with the Maximum Permissible Exposure (MPE) limit in the FCC’s regulations. In this case, the compliance assessment needs to take into account the RF effects of other existing antenna operations at the site by AT&T, T-Mobile, and Verizon Wireless. Note that FCC regulations require any future antenna collocators to assess and assure continuing compliance based on the cumulative effects of all then-proposed and then-existing antennas at the site.

This report describes a mathematical analysis of RF levels resulting around the site in areas of unrestricted public access, that is, at street level around the site. The compliance analysis employs a standard FCC formula for calculating the effects of the antennas in a very conservative manner, in order to overstate the RF levels and to ensure “safe-side” conclusions regarding compliance with the FCC limit for safe continuous exposure of the general public.

The results of a compliance assessment can be described in layman’s terms by expressing the calculated RF levels as simple percentages of the FCC MPE limit. If the normalized reference for that limit is 100 percent, then calculated RF levels higher than 100 percent indicate the MPE limit is exceeded and there is a need to mitigate the potential exposure. On the other hand, calculated RF levels consistently below 100 percent serve as a clear and sufficient demonstration of

compliance with the MPE limit. We can (and will) also describe the overall worst-case result via the “plain-English” equivalent “times-below-the-limit” factor.

The result of the RF compliance assessment in this case is as follows:

- At street level, the conservatively calculated maximum RF level from the combination of proposed and existing antenna operations at the site is 7.4334 percent of the FCC general population MPE limit – well below the 100-percent reference for compliance. In other words, the worst-case calculated RF level – intentionally and significantly overstated by the calculations – is still more than 13 times below the FCC limit for safe, continuous exposure of the general public.
- A supplemental analysis of the RF levels at the same height as the Dish antennas indicate that the FCC MPE limit is potentially exceeded. Therefore, it is recommended that two Caution signs be installed six feet below the antennas. In addition, NOC Information signs are to be installed at the base of the monopole.
- The results of the calculations, along with the proposed mitigation, combine to satisfy the FCC requirements and associated guidelines on RF compliance at street level around the site and on the subject roof. Moreover, because of the significant conservatism incorporated in the analysis, RF levels actually caused by the antennas will be lower than these calculations indicate.

The remainder of this report provides the following:

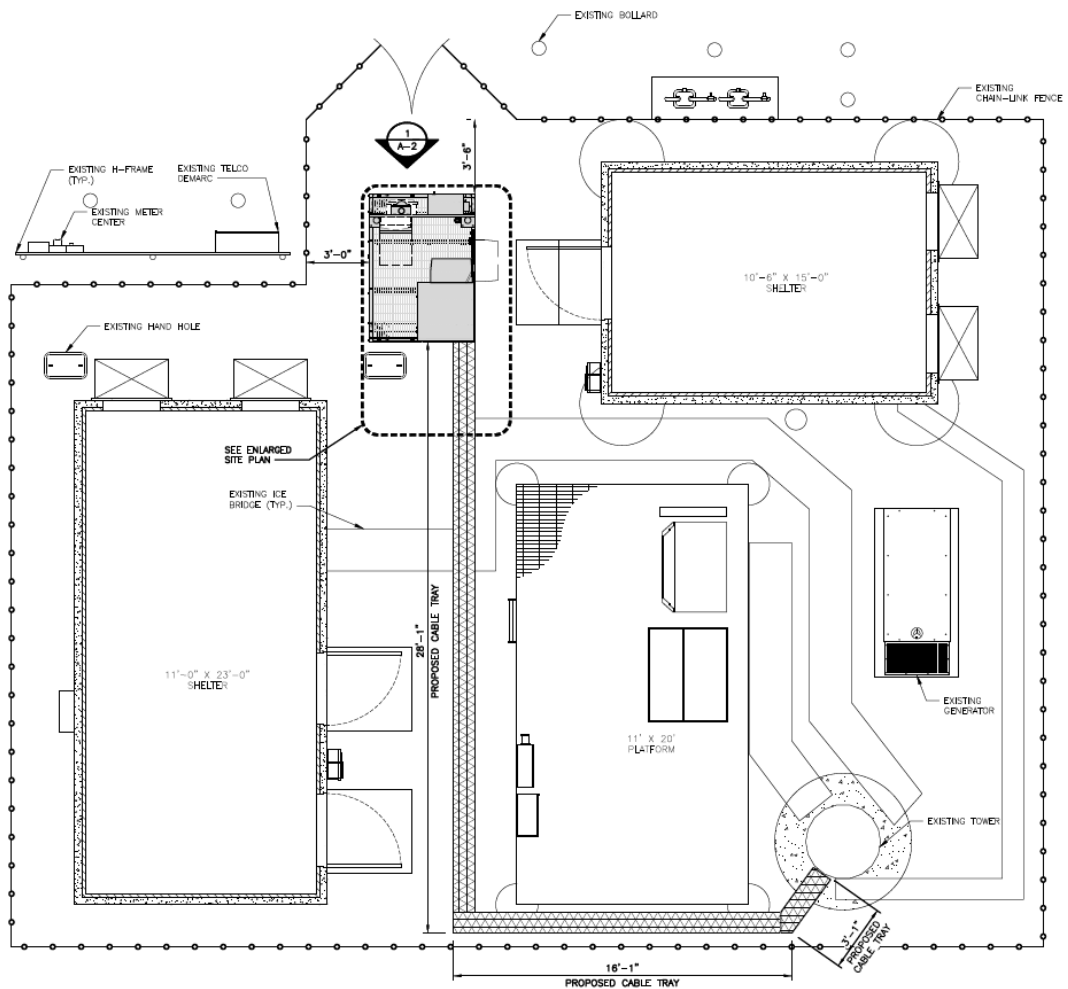
- relevant technical data on the proposed Dish antenna operations at the site, as well as on the other existing antenna operations;
- a description of the applicable FCC mathematical model for calculating RF levels, and application of the relevant technical data to that model;
- analysis of the results of the calculations against the FCC MPE limit, and the compliance conclusion for the site.

In addition, four Appendices are included. Appendix A provides information on the documents used to prepare the analysis. Appendix B provides background on the FCC MPE limit. Appendix C details the proposed mitigation to satisfy the FCC requirements and associated guidelines on RF compliance. Appendix D provides a summary of the qualifications of the expert certifying FCC compliance for this site.

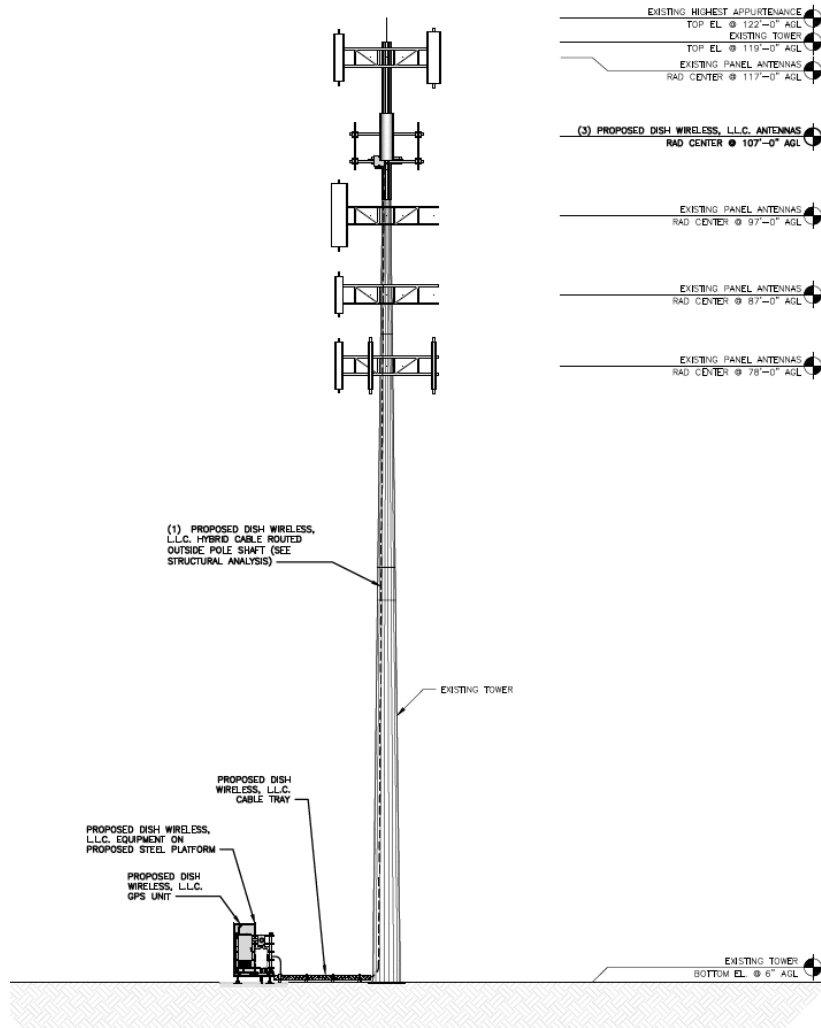
ANTENNA AND TRANSMISSION DATA

The plan and elevation views that follow, extracted from the site drawings, illustrate the mounting positions of the Dish antennas at the site.

Plan View:



Elevation View:



The table that follows summarizes the relevant data for the proposed Dish antenna operations. Note that the "Z" height references the centerline of the antenna.

Ant. ID	Carrier	Antenna Manufacturer	Antenna Model	Type	Freq (MHz)	Ant. Dim. (ft.)	Total Input Power (watts)	Total ERP (watts)	Z AGL (ft)	Ant. Gain (dBd)	B/W	Azimuth	EDT	MDT
1	Dish	Commscope	FFVV-65B-R2	Panel	600	6	120	2110	107	12.46	64	0	2	0
1	Dish	Commscope	FFVV-65B-R2	Panel	2000	6	160	7396	107	16.66	67	0	2	0
1	Dish	Commscope	FFVV-65B-R2	Panel	2100	6	160	7396	107	16.66	67	0	2	0
2	Dish	Commscope	FFVV-65B-R2	Panel	600	6	120	2110	107	12.46	64	120	2	0
2	Dish	Commscope	FFVV-65B-R2	Panel	2000	6	160	7396	107	16.66	67	120	2	0
2	Dish	Commscope	FFVV-65B-R2	Panel	2100	6	160	7396	107	16.66	67	120	2	0
3	Dish	Commscope	FFVV-65B-R2	Panel	600	6	120	2110	107	12.46	64	240	2	0
3	Dish	Commscope	FFVV-65B-R2	Panel	2000	6	160	7396	107	16.66	67	240	2	0
3	Dish	Commscope	FFVV-65B-R2	Panel	2100	6	160	7396	107	16.66	67	240	2	0

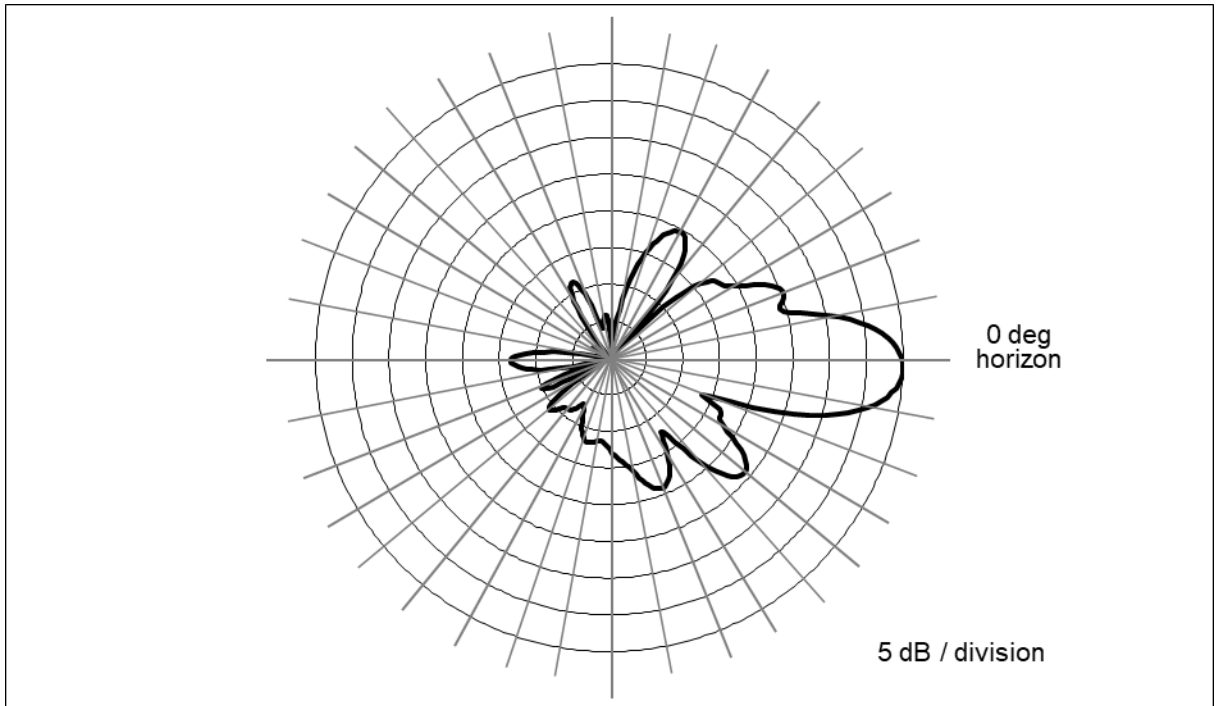
The area below the antennas, at street level, is of interest in terms of potential “uncontrolled” exposure of the general public, so the antenna’s vertical-plane emission characteristic is used in the calculations, as it is a key determinant of the relative amount of RF emissions in the “downward” direction.

By way of illustration, Figure 1 that follows shows the vertical-plane radiation pattern of the proposed antenna model in the 600 MHz frequency band. In this type of antenna radiation pattern diagram, the antenna is effectively pointed at the three o’clock position (the horizon) and the relative strength of the pattern at different angles is described using decibel units.

Note that the use of a decibel scale to describe the relative pattern at different angles actually serves to significantly understate the actual focusing effects of the antenna. Where the antenna pattern reads 20 dB the relative RF energy emitted at the corresponding downward angle is 1/100th of the maximum that occurs in the main beam (at 0 degrees); at 30 dB, the energy is only 1/1000th of the maximum.

Finally, note that the automatic pattern-scaling feature of our internal software may skew side-by-side visual comparisons of different antenna models, or even different parties’ depictions of the same antenna model.

Figure 1. Commscope FFVV-65B-R2 – 600 MHz Vertical-plane Pattern



As noted at the outset, there are other existing wireless antenna operations to include in the compliance assessment. For each of the wireless operators, we will conservatively assume operation with maximum channel capacity and at maximum transmitter power per channel to be used by each wireless operator in each of their respective FCC-licensed frequency bands.

The table that follows summarizes the relevant data for the collocated antenna operations.

<i>Carrier</i>	<i>Antenna Manufacturer</i>	<i>Antenna Model</i>	<i>Type</i>	<i>Freq (MHz)</i>	<i>Total ERP (watts)</i>	<i>Ant. Gain (dBd)</i>	<i>Azimuth</i>
AT&T	Generic	Generic	Panel	700	4945	11.26	N/A
AT&T	Generic	Generic	Panel	850	2400	11.76	N/A
AT&T	Generic	Generic	Panel	1900	5756	15.56	N/A
AT&T	Generic	Generic	Panel	2100	5890	15.66	N/A
AT&T	Generic	Generic	Panel	2300	4131	16.16	N/A
T-Mobile	Generic	Generic	Panel	600	3163	12.96	N/A
T-Mobile	Generic	Generic	Panel	700	867	13.36	N/A
T-Mobile	Generic	Generic	Panel	1900	4123	15.36	N/A
T-Mobile	Generic	Generic	Panel	1900	1452	15.60	N/A
T-Mobile	Generic	Generic	Panel	2100	4626	15.86	N/A
T-Mobile	Generic	Generic	Panel	1900	1419	15.50	N/A
T-Mobile	Generic	Generic	Panel	2500	12804	22.35	N/A
Verizon Wireless	Generic	Generic	Panel	746	2400	11.76	N/A
Verizon Wireless	Generic	Generic	Panel	869	5166	12.36	N/A
Verizon Wireless	Generic	Generic	Panel	1900	5372	15.26	N/A
Verizon Wireless	Generic	Generic	Panel	2100	5625	15.46	N/A

Compliance Analysis

FCC Office of Engineering and Technology Bulletin 65 (“OET Bulletin 65”) provides guidelines for mathematical models to calculate the RF levels at various points around transmitting antennas. Different models apply in different areas around antennas, with one model applying to street level around a site, and another applying to the rooftop near the antennas. We will address each area of interest in turn in the subsections that follow.

Street Level Analysis

At street-level around an antenna site (in what is called the “far field” of the antennas), the RF levels are directly proportional to the total antenna input power and the relative antenna gain in the downward direction of interest – and the levels are otherwise inversely proportional to the square of the straight-line distance to the antenna.

Conservative calculations also assume the potential RF exposure is enhanced by reflection of the RF energy from the intervening ground. Our calculations will assume a 100% “perfect”, mirror-like reflection, which is the absolute worst-case scenario.

The formula for street-level compliance assessment for any given wireless antenna operation is as follows:

$$\text{MPE\%} = (100 * \text{Chans} * \text{TxPower} * 10^{(\text{Gmax}-\text{Vdisc}/10)} * 4) / (\text{MPE} * 4\pi * \text{R}^2)$$

where

MPE%	=	RF level, expressed as a percentage of the MPE limit applicable to continuous exposure of the general public
100	=	factor to convert the raw result to a percentage
Chans	=	maximum number of RF channels per sector
TxPower	=	maximum transmitter power per channel, in milliwatts

- 10^(G_{max}-V_{disc}/10) = numeric equivalent of the relative antenna gain in the downward direction of interest; data on the antenna vertical-plane pattern is taken from manufacturer specifications
- 4 = factor to account for a 100-percent-efficient energy reflection from the ground, and the squared relationship between RF field strength and power density (2² = 4)
- MPE = FCC general population MPE limit
- R = straight-line distance from the RF source to the point of interest, centimeters

The MPE% calculations are performed out to a distance of 500 feet from the facility to points 6.5 feet (approximately two meters, the FCC-recommended standing height) off the ground, as illustrated in Figure 2, below.

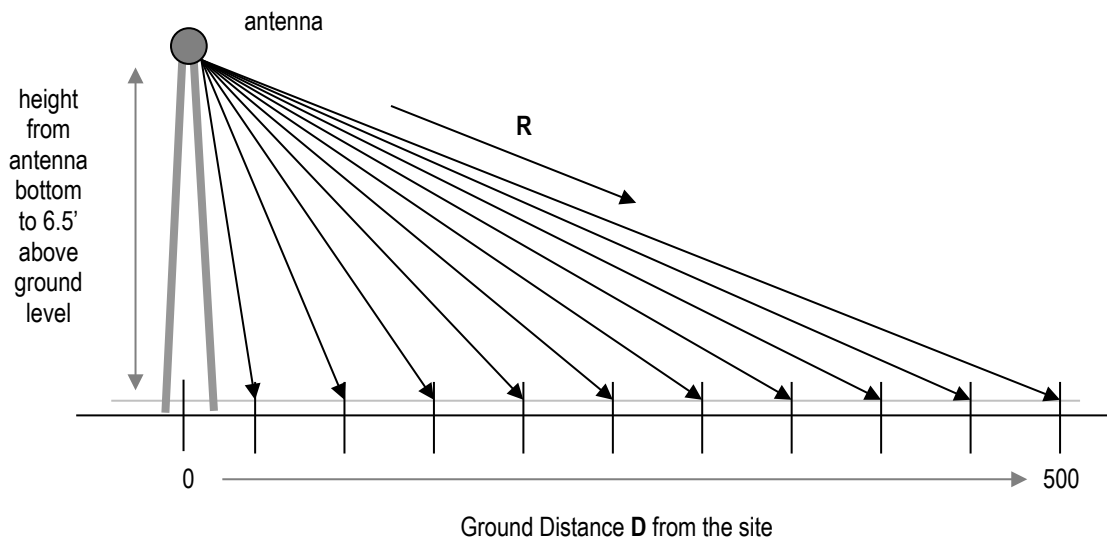


Figure 2. Street-level MPE% Calculation Geometry

It is popularly understood that the farther away one is from an antenna, the lower the RF level – which is generally but not universally correct. The results of MPE% calculations fairly close to the site will reflect the variations in the vertical-plane antenna pattern as well as the variation in straight-line distance to the antenna.

Therefore, RF levels may actually increase slightly with increasing distance within the range of zero to 500 feet from the site. As the distance approaches 500 feet and beyond, though, the antenna pattern factor becomes less significant, the RF levels become primarily distance-controlled and, as a result, the RF levels generally decrease with increasing distance. In any case, the RF levels more than 500 feet from a wireless antenna site are well understood to be sufficiently low to be comfortably in compliance.

According to the FCC, when directional antennas (such as panels) are used, compliance assessments are based on the RF effect of a single (facing) antenna sector, as the effects of directional antennas pointed away from the point(s) of interest are considered insignificant. If the different parameters apply in the different sectors, compliance is based on the worst-case parameters.

Street level FCC compliance for a collocated antenna site is assessed in the following manner. At each distance point along the ground, an MPE% calculation is made for each antenna operation (including each frequency band), and the sum of the individual MPE% contributions at each point is compared to 100 percent, the normalized reference for compliance with the MPE limit. We refer to the sum of the individual MPE% contributions as “total MPE%”, and any calculated total MPE% result exceeding 100 percent is, by definition, higher than the FCC limit and represents non-compliance and a need to mitigate the potential exposure. If all results are consistently below 100 percent, on the other hand, that set of results serves as a clear and sufficient demonstration of compliance with the MPE limit.

Note that the following conservative methodology and assumptions are incorporated into the MPE% calculations on a general basis:

1. The antennas are assumed to be operating continuously at maximum power and maximum channel capacity.
2. The power-attenuation effects of shadowing or other obstructions to the line-of-sight path from the antenna to the point of interest are ignored.
3. The calculations intentionally minimize the distance factor (R) by assuming a 6'6" human and performing the calculations from the bottom (rather than

- the centerline) of each operator's lowest-mounted antenna, as applicable.
4. The calculations also conservatively take into account, when applicable, the different technical characteristics and related RF effects of the use of multiple antennas for transmission in the same frequency band.
 5. The RF exposure at ground level is assumed to be 100-percent enhanced (increased) via a "perfect" field reflection from the intervening ground.

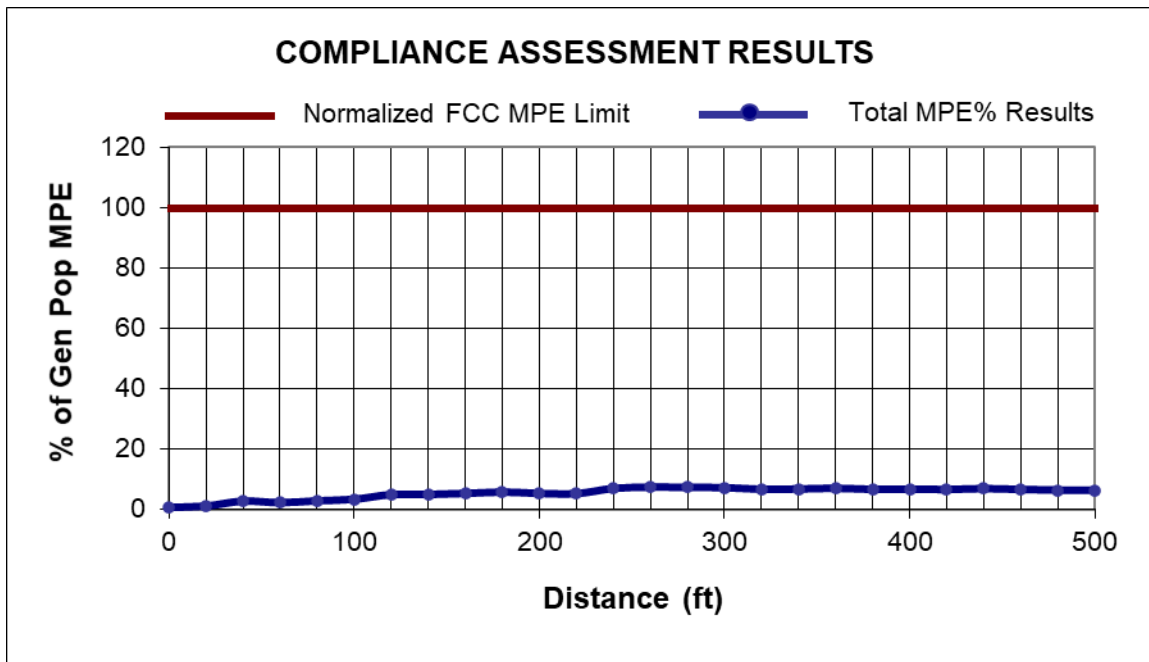
The net result of these assumptions is to intentionally and significantly overstate the calculated RF levels relative to the levels that will actually result from the antenna operations – and the purpose of this conservatism is to allow very "safe-side" conclusions about compliance.

The table that follows provides the results of the MPE% calculations for each antenna operation, with the overall worst-case calculated result highlighted in bold in the last column. Note that the transmission parameters for each Dish antenna sector are identical, and the calculations reflect the worst-case result for any/all sectors.

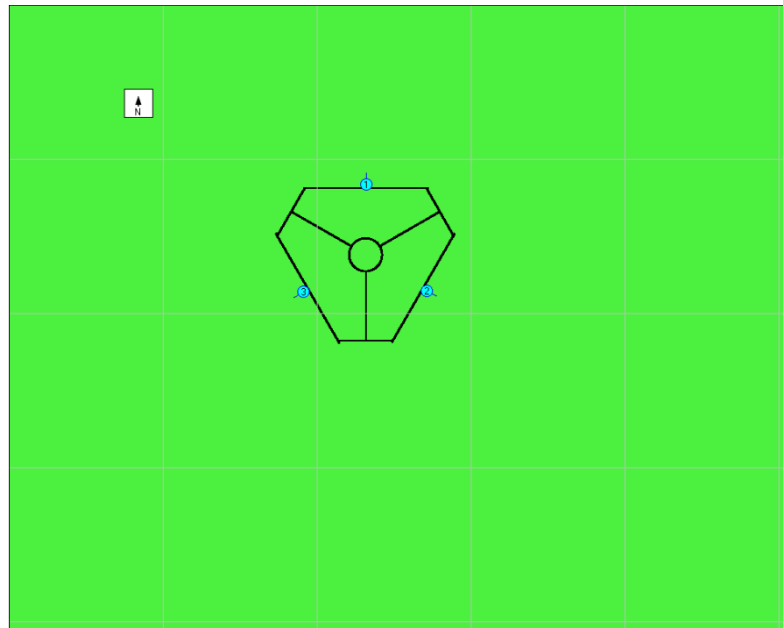
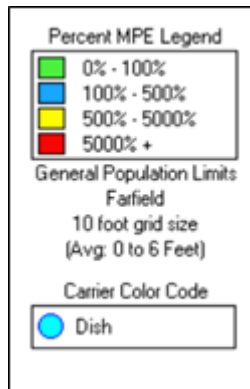
Ground Distance (ft)	Dish 600 MHz MPE%	Dish 2000 MHz MPE%	Dish 2100 MHz MPE%	AT&T MPE%	T-Mobile MPE%	Verizon Wireless MPE%	Total MPE%
0	0.0512	0.0024	0.0004	0.0989	0.5163	0.0722	0.7414
20	0.1093	0.0060	0.0089	0.1238	0.7365	0.1995	1.1840
40	0.2036	0.0349	0.0266	0.2490	1.7883	0.5096	2.8120
60	0.0581	0.0026	0.1456	0.4059	1.2936	0.3904	2.2962
80	0.0961	0.2946	0.2329	0.5493	0.7625	0.9837	2.9191
100	0.3008	0.2107	0.3686	0.4734	1.0294	1.0371	3.4200
120	0.2937	0.2644	0.3600	0.7914	1.6577	1.5802	4.9474
140	0.1184	0.0124	0.0319	0.9916	2.7025	1.1401	4.9969
160	0.0506	0.0266	0.0643	0.9697	3.7009	0.5226	5.3347
180	0.0340	0.0398	0.0214	1.0483	4.5421	0.0915	5.7771
200	0.0252	0.0879	0.1497	1.0661	3.8490	0.1741	5.3520
220	0.0137	0.0164	0.0855	0.8408	3.9879	0.3141	5.2584
240	0.0095	0.0384	0.0263	0.5199	5.5470	0.8480	6.9891
260	0.0199	0.1276	0.0769	0.3018	5.7749	1.1323	7.4334
280	0.0371	0.1068	0.1213	0.2450	5.3635	1.4487	7.3224
300	0.0646	0.0585	0.1197	0.2432	4.9872	1.7571	7.2303
320	0.1708	0.0055	0.0385	0.2502	4.6862	1.5536	6.7048
340	0.1528	0.0049	0.0345	0.2890	4.4596	1.8488	6.7896
360	0.2128	0.0046	0.0107	0.3880	4.2964	2.1218	7.0343
380	0.2813	0.0036	0.0035	0.5676	3.9248	1.9111	6.6919
400	0.3558	0.0073	0.0022	0.5160	3.7513	2.1328	6.7654
420	0.3244	0.0066	0.0020	0.7474	3.6012	1.9396	6.6212
440	0.3969	0.0258	0.0099	1.0125	3.2938	2.1860	6.9249
460	0.4697	0.0596	0.0349	0.9308	3.1509	2.0041	6.6500
480	0.4329	0.0549	0.0322	1.1609	2.9023	1.8438	6.4270
500	0.4002	0.0508	0.0298	1.0740	2.7737	2.0700	6.3985

As indicated, the maximum calculated overall RF level is 7.4334 percent of the FCC MPE limit – well below the 100-percent reference for compliance.

A graph of the overall calculation results, shown below, perhaps provides a clearer *visual* illustration of the relative compliance of the calculated RF levels. The line representing the overall calculation results shows an obviously clear, consistent margin to the FCC MPE limit.



The graphic output for the areas at street level surrounding the site is reproduced on the next page.

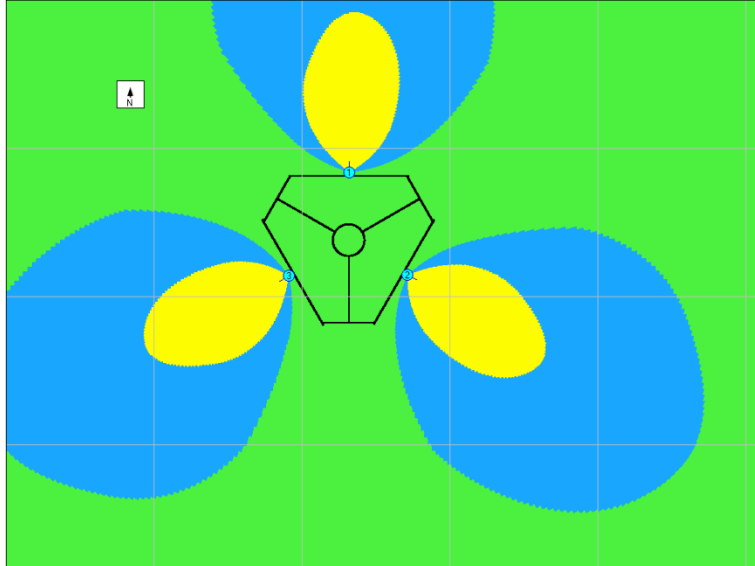
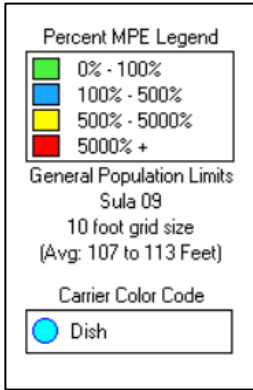


Near-field Analysis

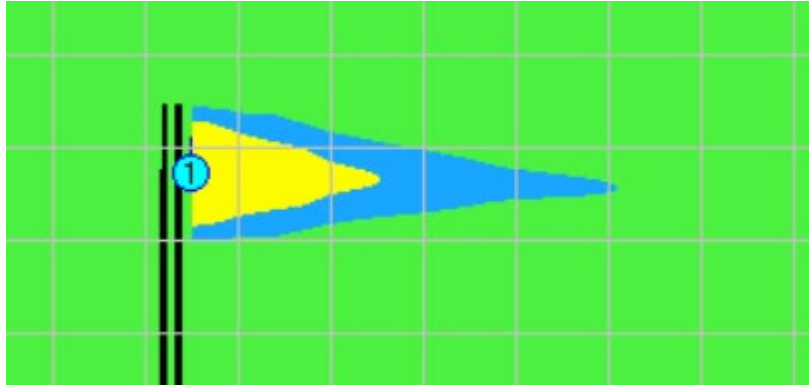
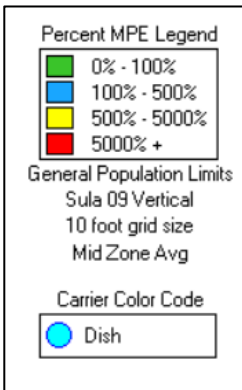
The compliance analysis for the same height as the antennas is performed using the RoofMaster program by Waterford Consultants.

RF levels in the near field of an antenna depend on the power input to the antenna, the antenna's length and horizontal beamwidth, the mounting height of the antenna above nearby roof, and one's position and distance from the antenna. RF levels in front of a directional antenna are higher than they are to the sides or rear, and in any given horizontal direction are inversely proportional to the straight-line distance to the antenna.

The RoofMaster graphic outputs for the same height as the Dish antennas are reproduced on the next page.



**RoofMaster – Same Height as the Antennas –
Alpha / Beta / Gamma sectors**



**RoofMaster – Same Height as the Antennas –
Alpha / Beta / Gamma sectors**

COMPLIANCE CONCLUSION

According to the FCC, the MPE limit has been constructed in such a manner that continuous human exposure to RF fields up to and including 100 percent of the MPE limit is acceptable and safe.

The conservative analysis in this case shows that the maximum calculated RF level from the combination of proposed and existing antenna operations at street level around the site is 7.4334 percent of the FCC general population MPE limit. At the same height as the antennas, the analysis shows that the calculated RF levels potentially exceed the FCC MPE limit. Per Dish guidelines, and consistent with FCC guidance on compliance, it is recommended that two Caution signs be installed six feet below the antennas. In addition, NOC Information signs be installed at the base of the monopole.

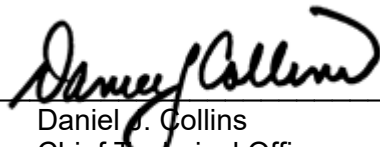
The results of the calculations, along with the described RF mitigation, combine to satisfy the FCC's RF compliance requirements and associated guidelines on compliance.

Moreover, because of the extremely conservative calculation methodology and operational assumptions we applied in the analysis, RF levels actually caused by the antennas will be significantly lower than the calculation results here indicate.

CERTIFICATION

It is the policy of Pinnacle Telecom Group that all FCC RF compliance assessments are reviewed, approved, and signed by the firm's Chief Technical Officer who certifies as follows:

1. I have read and fully understand the FCC regulations concerning RF safety and the control of human exposure to RF fields (47 CFR 1.1301 *et seq*).
2. To the best of my knowledge, the statements and information disclosed in this report are true, complete and accurate.
3. The analysis of site RF compliance provided herein is consistent with the applicable FCC regulations, additional guidelines issued by the FCC, and industry practice.
4. The results of the analysis indicate that the subject antenna operations will be in compliance with the FCC regulations concerning the control of potential human exposure to the RF emissions from antennas.



Daniel J. Collins
Chief Technical Officer
Pinnacle Telecom Group, LLC

3/11/22

Date

Appendix A. DOCUMENTS Used to Prepare the Analysis

RFDS: RFDS-NJJER02048A-Final-20211115-v.0_20211116120029

CD: NJJER02048A_FinalStampedCDs_20211029144030

Appendix B. Background on the FCC MPE Limit

As directed by the Telecommunications Act of 1996, the FCC has established limits for maximum continuous human exposure to RF fields.

The FCC maximum permissible exposure (MPE) limits represent the consensus of federal agencies and independent experts responsible for RF safety matters. Those agencies include the National Council on Radiation Protection and Measurements (NCRP), the Occupational Safety and Health Administration (OSHA), the National Institute for Occupational Safety and Health (NIOSH), the American National Standards Institute (ANSI), the Environmental Protection Agency (EPA), and the Food and Drug Administration (FDA). In formulating its guidelines, the FCC also considered input from the public and technical community – notably the Institute of Electrical and Electronics Engineers (IEEE).

The FCC's RF exposure guidelines are incorporated in Section 1.301 *et seq* of its Rules and Regulations (47 CFR 1.1301-1.1310). Those guidelines specify MPE limits for both occupational and general population exposure.

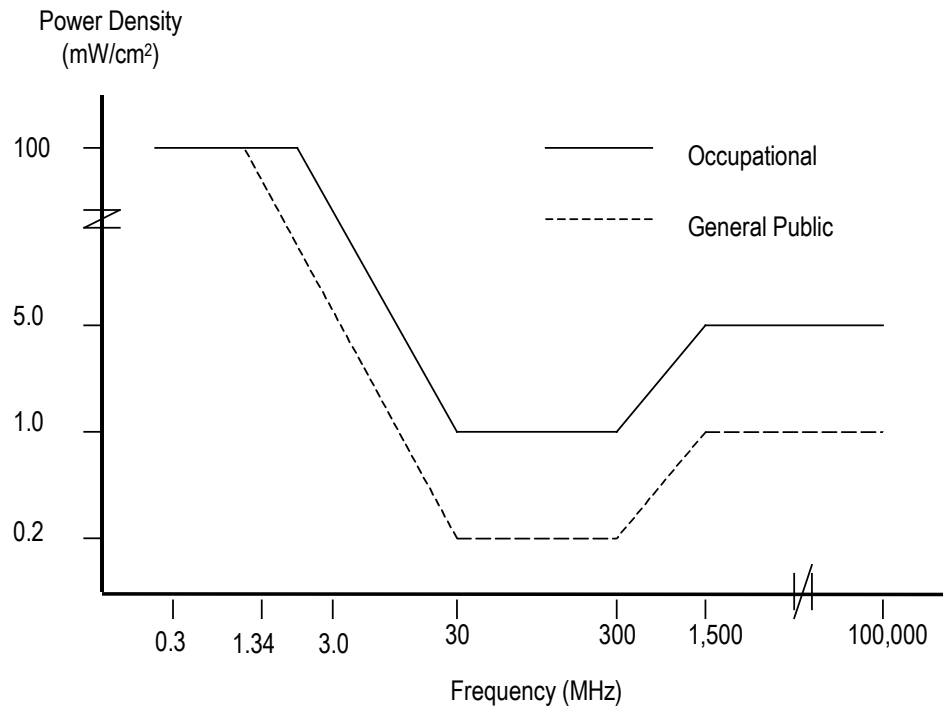
The specified continuous exposure MPE limits are based on known variation of human body susceptibility in different frequency ranges, and a Specific Absorption Rate (SAR) of 4 watts per kilogram, which is universally considered to accurately represent human capacity to dissipate incident RF energy (in the form of heat). The occupational MPE guidelines incorporate a safety factor of 10 or greater with respect to RF levels known to represent a health hazard, and an additional safety factor of five is applied to the MPE limits for general population exposure. Thus, the general population MPE limit has a built-in safety factor of more than 50. The limits were constructed to appropriately protect humans of both sexes and all ages and sizes and under all conditions – and continuous exposure at levels equal to or below the applicable MPE limits is considered to result in no adverse health effects or even health risk.

The reason for *two* tiers of MPE limits is based on an understanding and assumption that members of the general public are unlikely to have had appropriate RF safety training and may not be aware of the exposures they receive; occupational exposure in controlled environments, on the other hand, is assumed to involve individuals who have had such training, are aware of the exposures, and know how to maintain a safe personal work environment.

The FCC's RF exposure limits are expressed in two equivalent forms, using alternative units of field strength (expressed in volts per meter, or V/m), and power density (expressed in milliwatts per square centimeter, or mW/cm²). The table on the next page lists the FCC limits for both occupational and general population exposures, using the mW/cm² reference, for the different radio frequency ranges.

Frequency Range (F) (MHz)	Occupational Exposure (mW/cm ²)	General Public Exposure (mW/cm ²)
0.3 - 1.34	100	100
1.34 - 3.0	100	180 / F ²
3.0 - 30	900 / F ²	180 / F ²
30 - 300	1.0	0.2
300 - 1,500	F / 300	F / 1500
1,500 - 100,000	5.0	1.0

The diagram below provides a graphical illustration of both the FCC's occupational and general population MPE limits.



Because the FCC's RF exposure limits are frequency-shaped, the exact MPE limits applicable to the instant situation depend on the frequency range used by the systems of interest.

The most appropriate method of determining RF compliance is to calculate the RF power density attributable to a particular system and compare that to the MPE limit applicable to the operating frequency in question. The result is usually expressed as a percentage of the MPE limit.

For potential exposure from multiple systems, the respective percentages of the MPE limits are added, and the total percentage compared to 100 (percent of the limit). If the result is less than 100, the total exposure is in compliance; if it is more than 100, exposure mitigation measures are necessary to achieve compliance.

Note that the FCC “categorically excludes” all “non-building-mounted” wireless antenna operations whose mounting heights are more than 10 meters (32.8 feet) from the routine requirement to demonstrate compliance with the MPE limit, because such operations “are deemed, individually and cumulatively, to have no significant effect on the human environment”. The categorical exclusion also applies to *all* point-to-point antenna operations, regardless of the type of structure they’re mounted on. Note that the FCC considers any facility qualifying for the categorical exclusion to be automatically in compliance.

In addition, FCC Rules and Regulations Section 1.1307(b)(3) describes a provision known in the industry as “the 5% rule”. It describes that when a specific location – like a spot on a rooftop – is subject to an overall exposure level exceeding the applicable MPE limit, operators with antennas whose MPE% contributions at the point of interest are less than 5% are exempted from the obligation otherwise shared by all operators to bring the site into compliance, and those antennas are automatically deemed by the FCC to satisfy the rooftop compliance requirement.

FCC References on RF Compliance

47 CFR, FCC Rules and Regulations, Part 1 (Practice and Procedure), Section 1.1310 (Radiofrequency radiation exposure limits).

FCC Second Memorandum Opinion and Order and Notice of Proposed Rulemaking (FCC 97-303), *In the Matter of Procedures for Reviewing Requests for Relief From State and Local Regulations Pursuant to Section 332(c)(7)(B)(v) of the Communications Act of 1934 (WT Docket 97-192)*, *Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation (ET Docket 93-62)*, and *Petition for Rulemaking of the Cellular Telecommunications Industry Association Concerning Amendment of the Commission's Rules to Preempt State and Local Regulation of Commercial Mobile Radio Service Transmitting Facilities*, released August 25, 1997.

FCC First Memorandum Opinion and Order, ET Docket 93-62, *In the Matter of Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation*, released December 24, 1996.

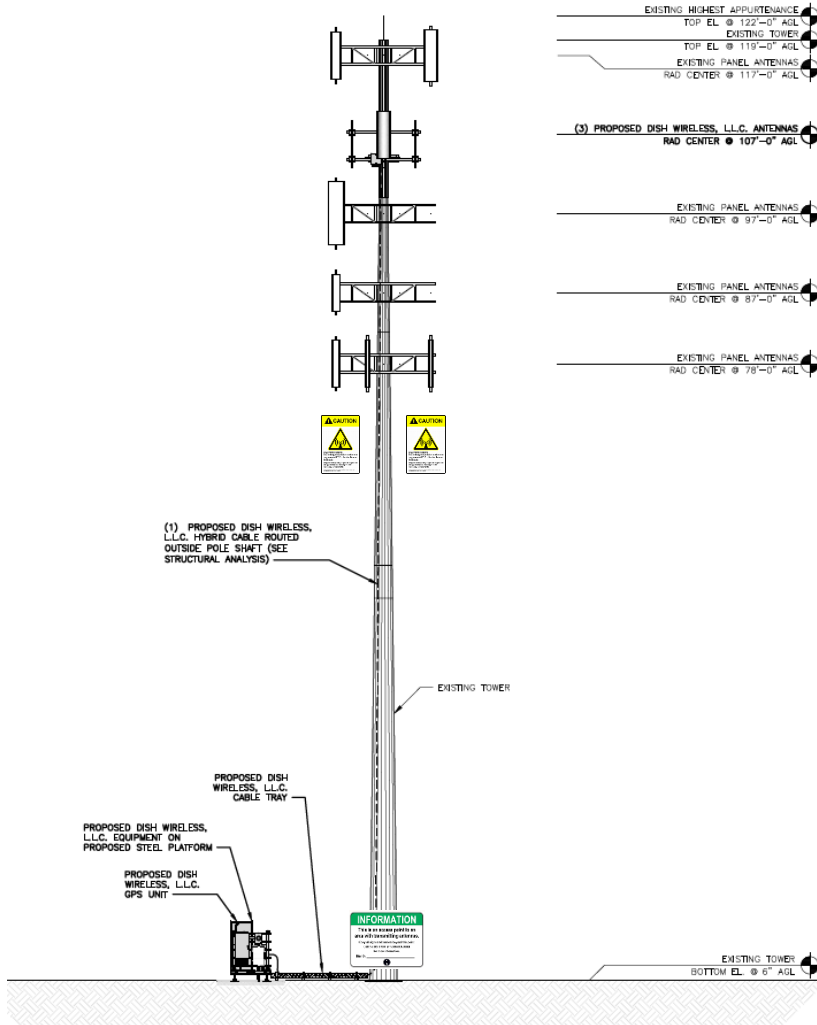
FCC Report and Order, ET Docket 93-62, *In the Matter of Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation*, released August 1, 1996.

FCC Report and Order, Notice of Proposed Rulemaking, Memorandum Opinion and Order (FCC 19-126), *Proposed Changes in the Commission's Rules Regarding Human Exposure to Radiofrequency Electromagnetic Fields; Reassessment of Federal Communications Commission Radiofrequency Exposure Limits and Policies*, released December 4, 2019.

FCC Office of Engineering and Technology (OET) Bulletin 65, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 97-01, August 1997.

FCC Office of Engineering and Technology (OET) Bulletin 56, "Questions and Answers About Biological Effects and Potential Hazards of RF Radiation", edition 4, August 1999.

Appendix C. PROPOSED SIGNAGE



NOC Information Sign		Caution Sign	
Guidelines Sign		Warning Sign	
Notice Sign			

Appendix D. SUMMARY of EXPERT QUALIFICATIONS

Daniel J. Collins, Chief Technical Officer, Pinnacle Telecom Group, LLC

<p>Synopsis:</p>	<ul style="list-style-type: none"> • 40+ years of experience in all aspects of wireless system engineering, related regulation, and RF exposure • Has performed or led RF exposure compliance assessments on more than 20,000 antenna sites since the latest FCC regulations went into effect in 1997 • Has provided testimony as an RF compliance expert more than 1,500 times since 1997 • Have been accepted as an FCC compliance expert in New York, New Jersey, Connecticut, Pennsylvania and more than 40 other states, as well as by the FCC
<p>Education:</p>	<ul style="list-style-type: none"> • B.E.E., City College of New York (Sch. Of Eng.), 1971 • M.B.A., 1982, Fairleigh Dickinson University, 1982 • Bronx High School of Science, 1966
<p>Current Responsibilities:</p>	<ul style="list-style-type: none"> • Leads all PTG staff work involving RF safety and FCC compliance, microwave and satellite system engineering, and consulting on wireless technology and regulation
<p>Prior Experience:</p>	<ul style="list-style-type: none"> • Edwards & Kelcey, VP – RF Engineering and Chief Information Technology Officer, 1996-99 • Bellcore (a Bell Labs offshoot after AT&T's 1984 divestiture), Executive Director – Regulation and Public Policy, 1983-96 • AT&T (Corp. HQ), Division Manager – RF Engineering, and Director – Radio Spectrum Management, 1977-83 • AT&T Long Lines, Group Supervisor – Microwave Radio System Design, 1972-77
<p>Specific RF Safety / Compliance Experience:</p>	<ul style="list-style-type: none"> • Involved in RF exposure matters since 1972 • Have had lead corporate responsibility for RF safety and compliance at AT&T, Bellcore, Edwards & Kelcey, and PTG • While at AT&T, helped develop the mathematical models for calculating RF exposure levels • Have been relied on for compliance by all major wireless carriers, as well as by the federal government, several state and local governments, equipment manufacturers, system integrators, and other consulting / engineering firms
<p>Other Background:</p>	<ul style="list-style-type: none"> • Author, <i>Microwave System Engineering</i> (AT&T, 1974) • Co-author and executive editor, <i>A Guide to New Technologies and Services</i> (Bellcore, 1993) • National Spectrum Management Association (NSMA) – former three-term President and Chairman of the Board of Directors; was founding member, twice-elected Vice President, long-time member of the Board, and was named an NSMA Fellow in 1991 • Have published more than 35 articles in industry magazines



AMERICAN TOWER®
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This report was prepared for American Tower Corporation by



**TOWER
ENGINEERING
PROFESSIONALS**

Antenna Mount Analysis Report

ATC Site Name : Stoneybrook RD CT, CT
ATC Site Number : 283420
Engineering Number : 13712876_C8_06
Mount Elevation : 107 ft
Carrier : Dish Wireless
Carrier Site Name : NJJER02048A
Carrier Site Number : NJJER02048A
Site Location : 23 Stonybrook Road
Stratford, CT 06614-3715
41.2033, -73.1486
County : Fairfield
Date : March 25, 2022
Max Usage : 33%
Result : Pass

Prepared By:
Nicholas P. Danyluk
TEP # 66389.677386

Reviewed By:



03/25/2022



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Conclusion 1

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Calculations Attached



Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for Dish Wireless at 107 ft.

Supporting Documents

Spec. Sheet	Spec Sheet for Commscope MC-PK8-DSH
Loading Application	Loading Application dated November 22, 2021

Analysis

This antenna mount was analyzed using RISA-3D v17 analysis software

Basic Wind Speed:	119 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1.0" radial Ice
Codes:	ANSI/TIA-222-H
Risk Category:	II
Exposure Category:	B
Topographic Factor Procedure:	Method 2
Kzt:	1.000
Spectral Response:	$S_s = 0.207, S_1 = 0.054$
Site Class:	D - Default
Live Loads:	$L_m = 500 \text{ lbs}, L_v = 250 \text{ lbs}$

Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above. The mount can support the equipment as described in this report. If the load differs from that described in this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.

Analysis is based on new Commscope MC-PK8-DSH platform mount.

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



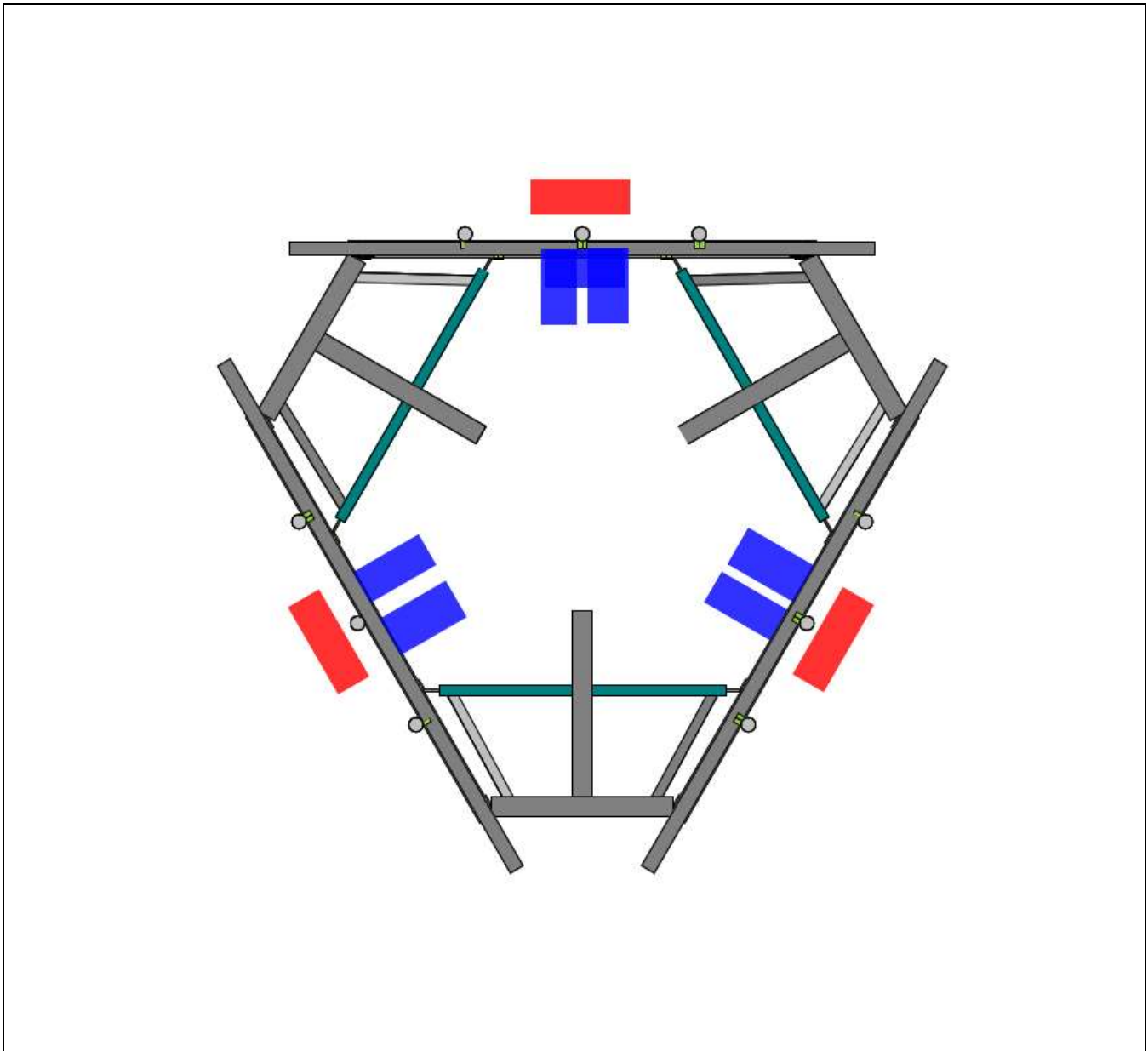
Antenna Loading

Mount Centerline (ft)	Antenna Centerline (ft)	Qty	Antenna Model
107.0	107.0	3	JMA MX08FRO665-21
		1	Raycap RDIDC-9181-PF-48
		3	Fujitsu TA08025-B604
		3	Fujitsu TA08025-B605

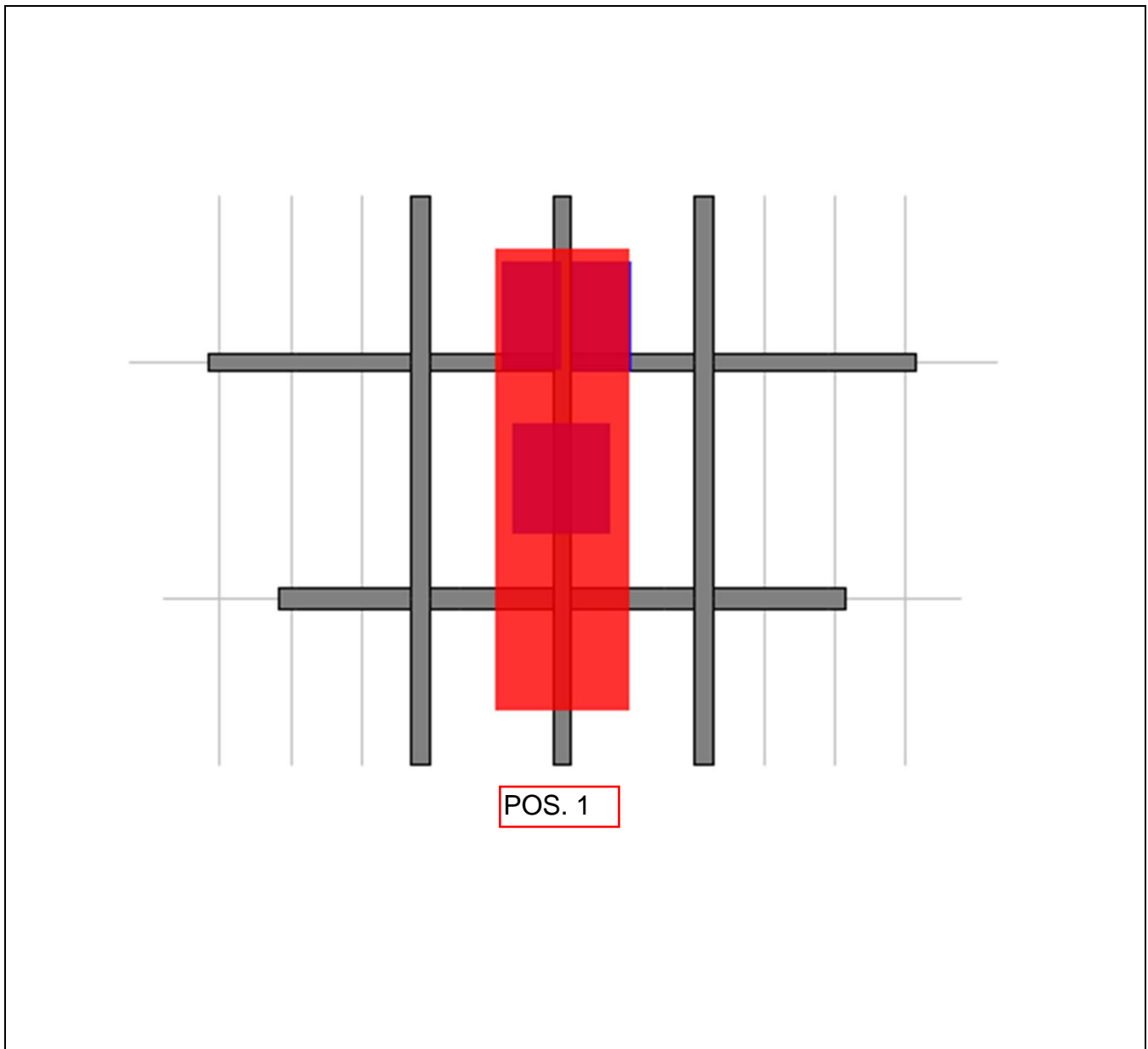
Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Horizontals	28%	Pass
Mount Pipes	14%	Pass
Handrails	33%	Pass
Tower Connection	28%	Pass

Mount Layout



Equipment Layout





Standard Conditions

All engineering services performed by TEP 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 TEP

It is the responsibility of the client to ensure that the information provided to TEP and used in the performance of our engineering services is correct and complete.

TEP assumes that all structures were constructed in accordance with the drawings and specifications.

TEP assumes that the mount has been maintained in accordance with the manufacturer's specification.

TEP assumes that all mount components are in sufficient condition to carry their full design capacity for this analysis.

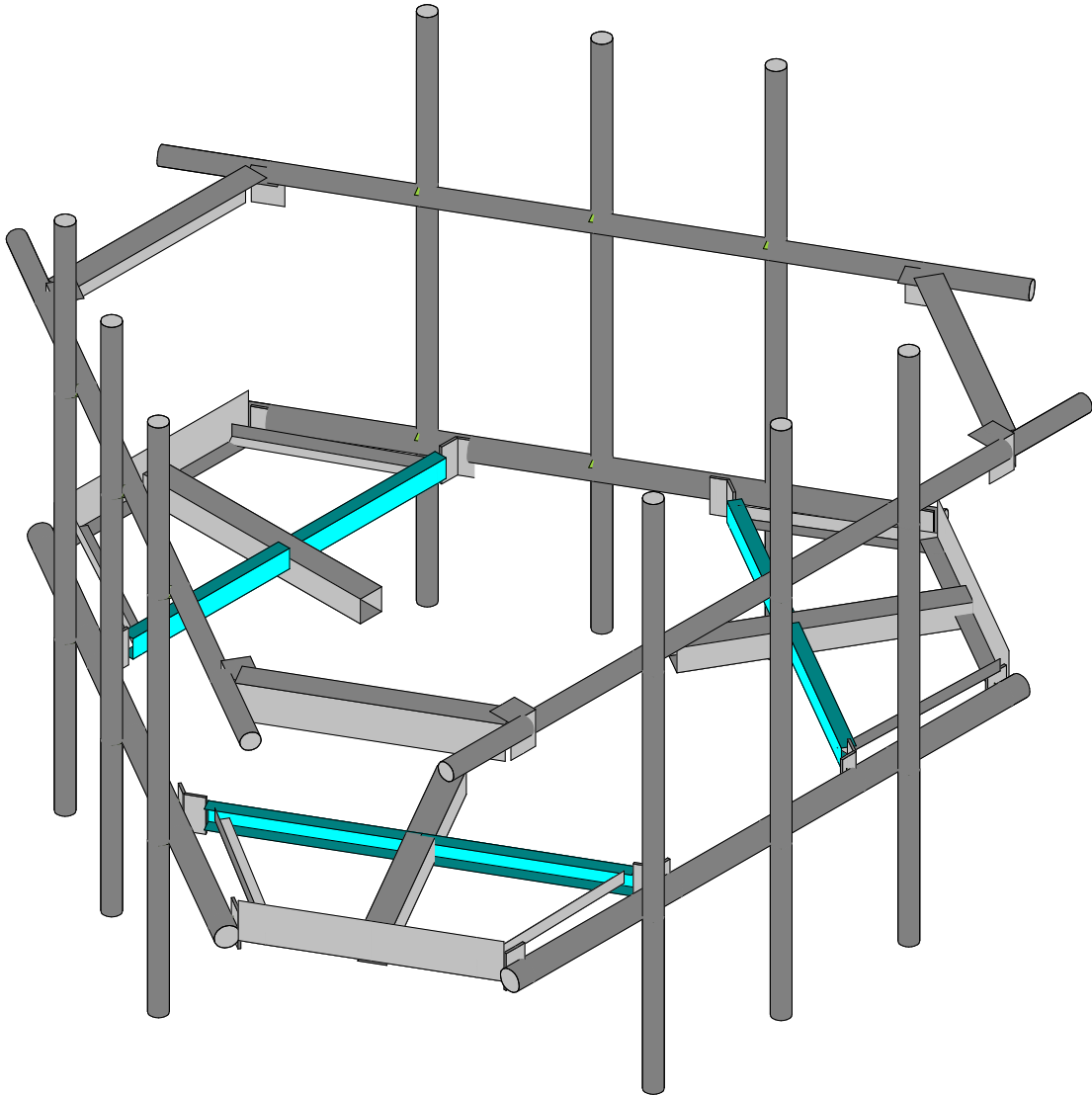
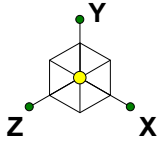
Serviceability with respect to antenna twist, tilt, roll, or lateral translation, is not checked and is left to the carrier or tower owner to ensure conformance.

All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15th Edition. See RISA 3-D output for confirmation on grades used in this analysis.

All connections are to be verified for condition and tightness by the installation contractor preceding any changes to the appurtenance mounting system and/or equipment attached to it.

Unless explicitly agreed by both the client and TEP, 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. TEP is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.



Envelope Only Solution

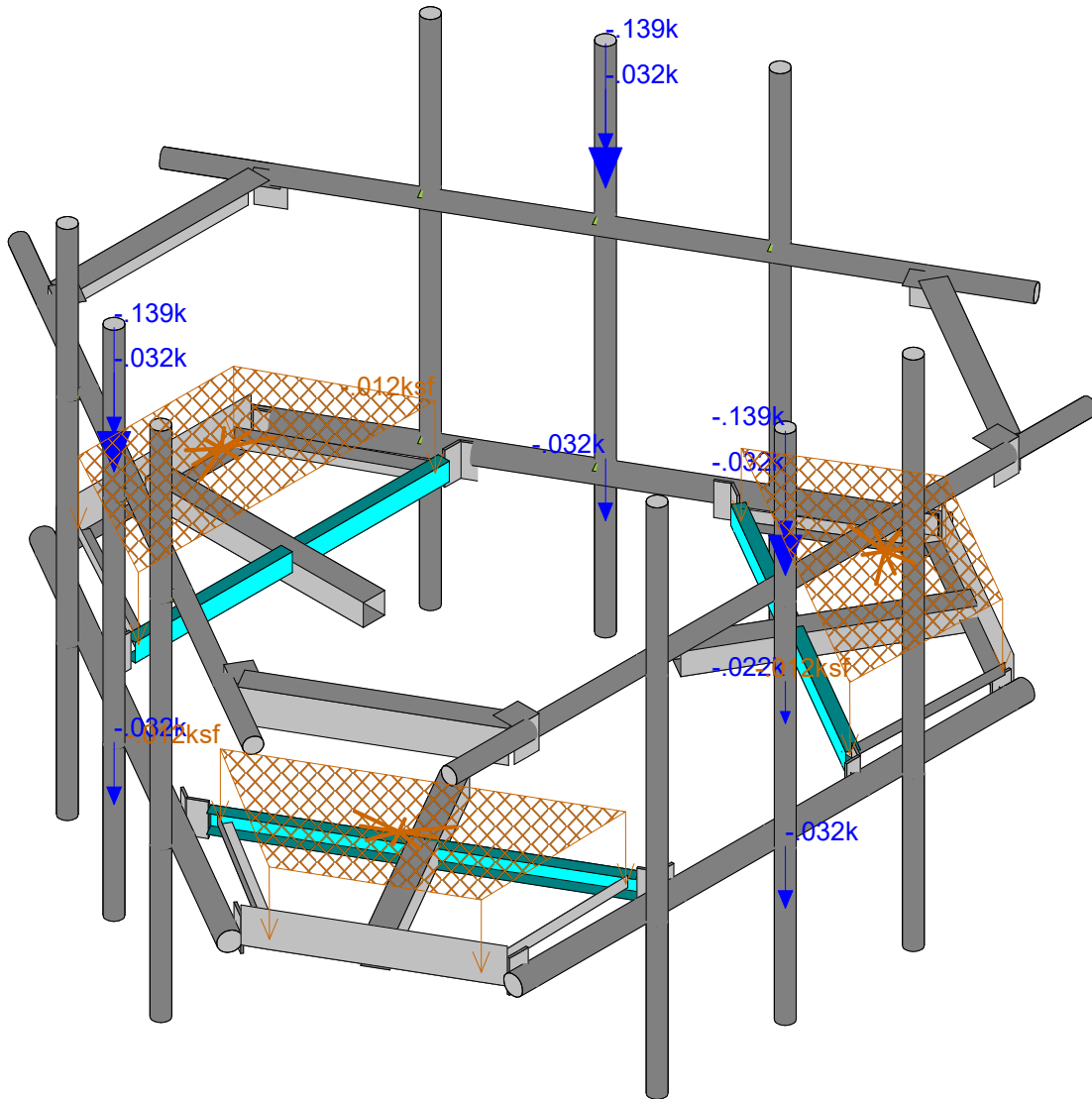
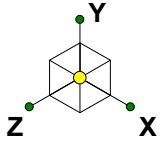
Tower Engineering Profes...
NPD
TEP No. 66389.677386

283420 - Stoneybrook RD CT

SK - 1

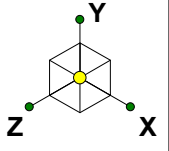
Mar 25, 2022 at 10:56 AM

MC-PK8-DSH.r3d

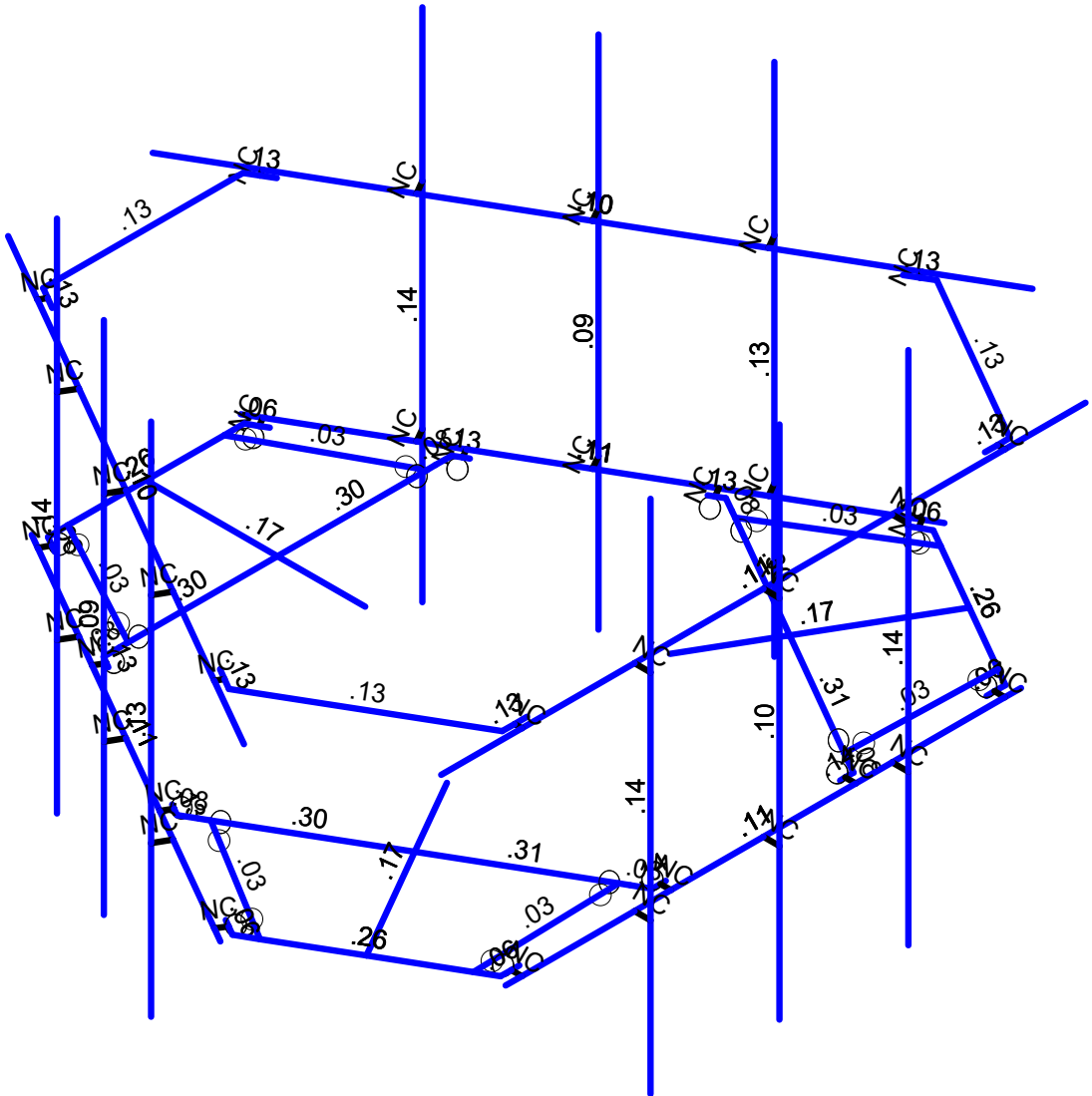


Loads: BLC 1, Dead
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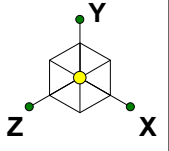


Code Check (Env)	
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Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0.-.50

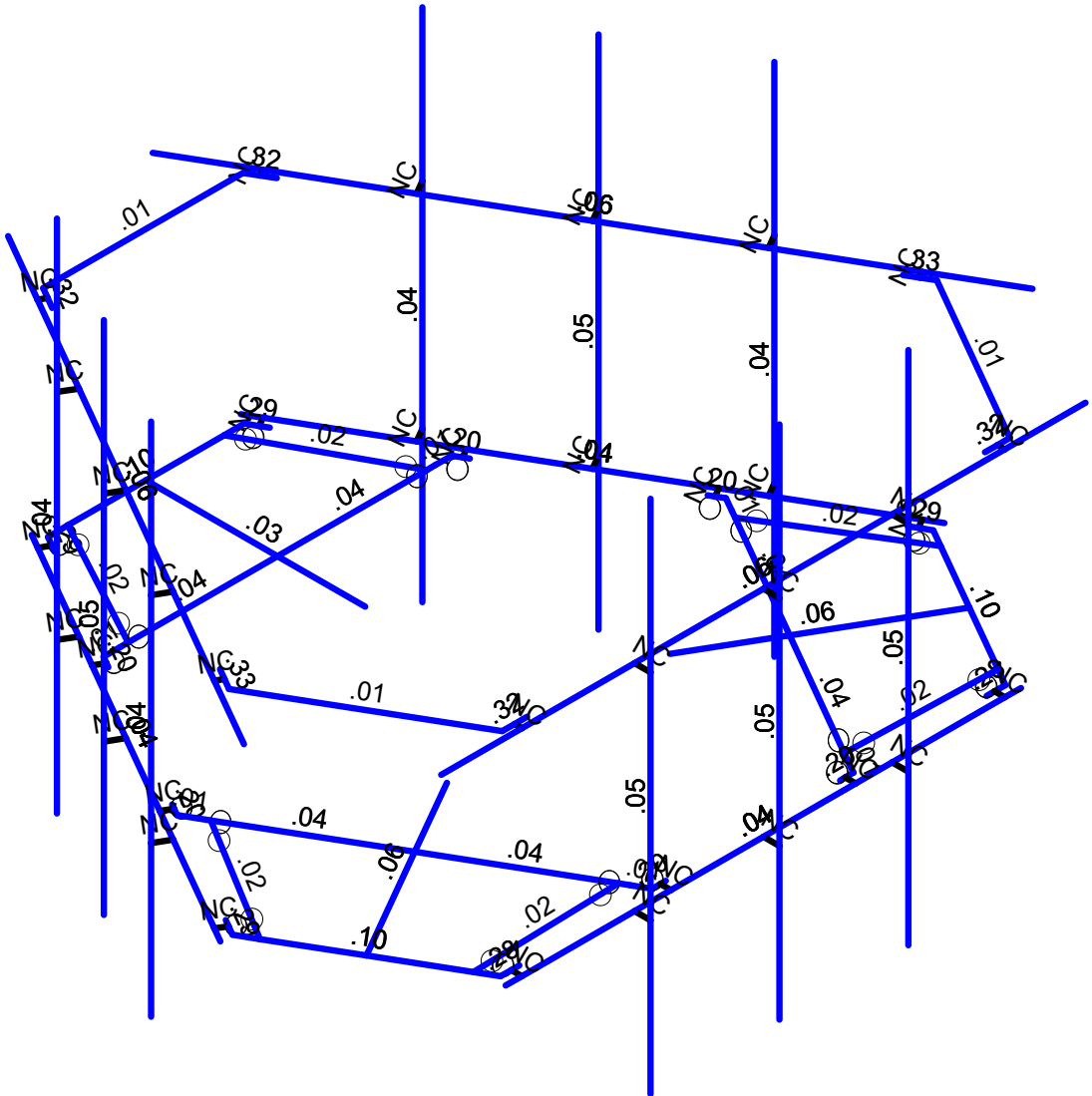
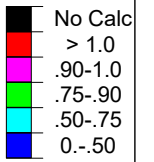


Member Code Checks Displayed (Enveloped)
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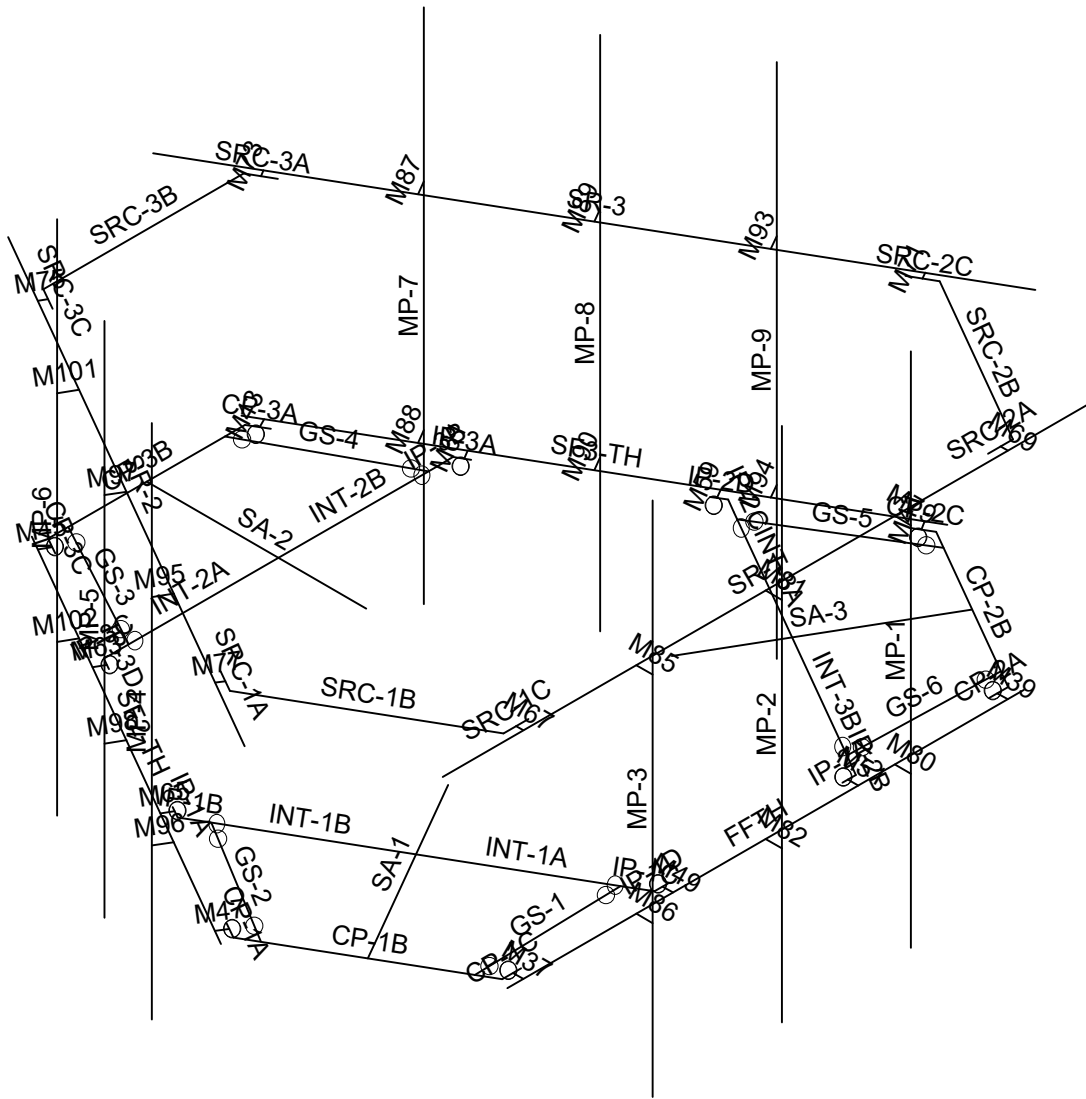
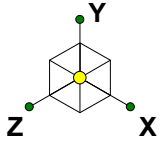


Shear Check
(Env)



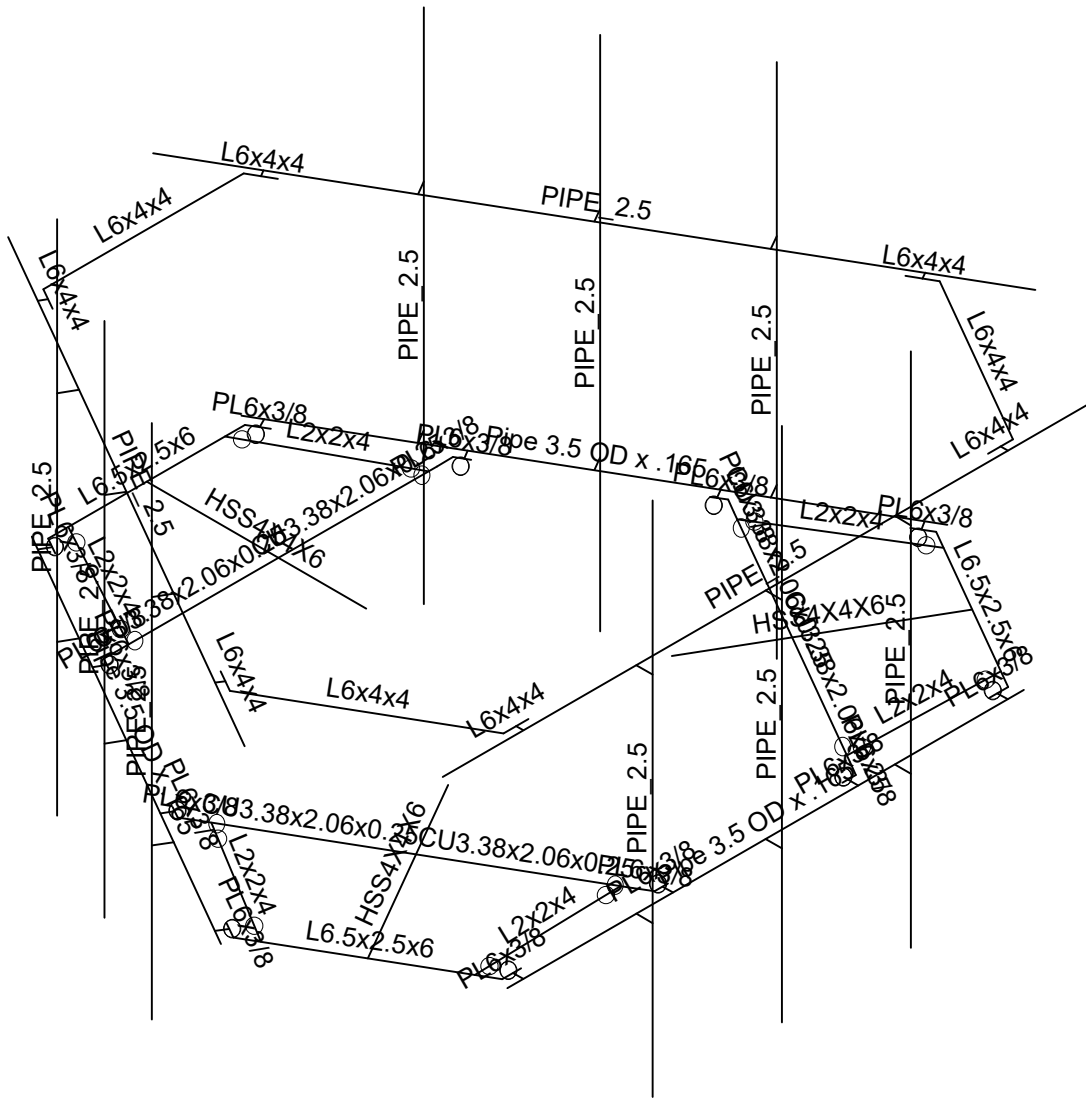
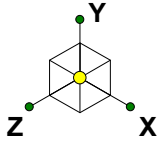
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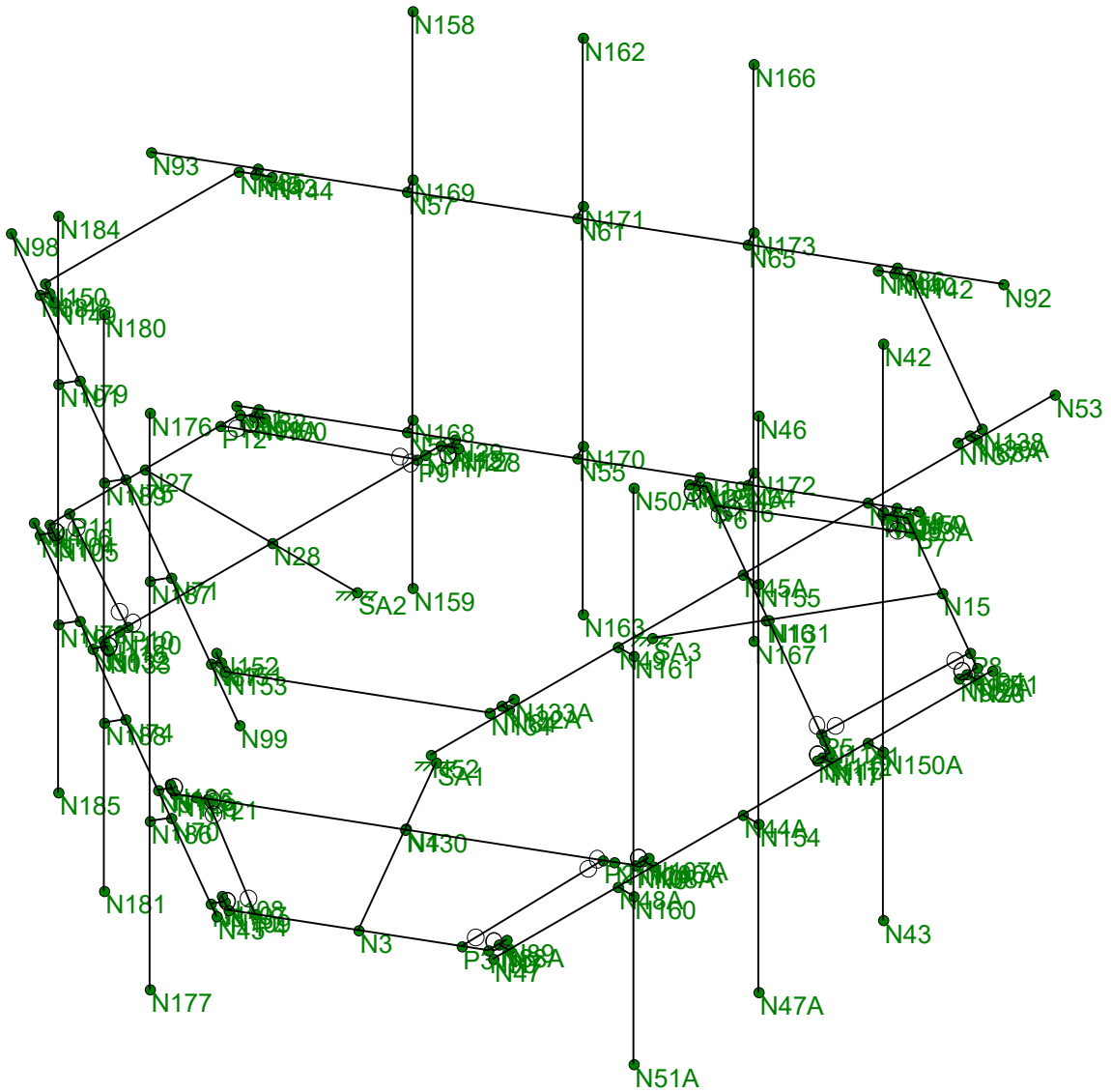
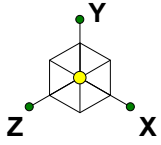
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TEP No. 66389.677386		MC-PK8-DSH.r3d



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

Mar 25, 2022
 10:57 AM
 Checked By: SDJ

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area (Me...	Surface (...
1	Dead	None			-1		13	60	3
2	0 Wind - No Ice	None					13	60	
3	30 Wind - No Ice	None					26	120	
4	45 Wind - No Ice	None					26	120	
5	60 Wind - No Ice	None					26	120	
6	90 Wind - No Ice	None					13	60	
7	120 Wind - No Ice	None					26	120	
8	135 Wind - No Ice	None					26	120	
9	150 Wind - No Ice	None					26	120	
10	180 Wind - No Ice	None					13	60	
11	210 Wind - No Ice	None					26	120	
12	225 Wind - No Ice	None					26	120	
13	240 Wind - No Ice	None					26	120	
14	270 Wind - No Ice	None					13	60	
15	300 Wind - No Ice	None					26	120	
16	315 Wind - No Ice	None					26	120	
17	330 Wind - No Ice	None					26	120	
18	Ice Weight	None					13	60	3
19	0 Wind - Ice	None					13	60	
20	30 Wind - Ice	None					26	120	
21	45 Wind - Ice	None					26	120	
22	60 Wind - Ice	None					26	120	
23	90 Wind - Ice	None					13	60	
24	120 Wind - Ice	None					26	120	
25	135 Wind - Ice	None					26	120	
26	150 Wind - Ice	None					26	120	
27	180 Wind - Ice	None					13	60	
28	210 Wind - Ice	None					26	120	
29	225 Wind - Ice	None					26	120	
30	240 Wind - Ice	None					26	120	
31	270 Wind - Ice	None					13	60	
32	300 Wind - Ice	None					26	120	
33	315 Wind - Ice	None					26	120	
34	330 Wind - Ice	None					26	120	
35	Lm	None					1		
36	Lv	None					1		
37	Seismic Load X	ELX	-1				13		
38	Seismic Load Z	ELZ			-1		13		
39	BLC 1 Transient Area Loads	None						9	
40	BLC 18 Transient Area Loads	None						9	



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

Mar 25, 2022
 10:57 AM
 Checked By: SDJ

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	Yes
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	32.2
Wall Mesh Size (in)	24
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver
Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	No
RISACONNECTION CODE	None
Cold Formed Steel Code	AISI S100-16: LRFD
Wood Code	None
Wood Temperature	< 100F
Concrete Code	None
Masonry Code	None
Aluminum Code	None - Building
Stainless Steel Code	None
Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	No
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR SET ASTMA615
Min % Steel for Column	1
Max % Steel for Column	8



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(Global) Model Settings, Continued

Seismic Code	ASCE 7-16
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	Yes
Ct X	.02
Ct Z	.02
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	3
R Z	3
Ct Exp. X	.75
Ct Exp. Z	.75
SD1	1
SDS	1
S1	1
TL (sec)	5
Risk Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	4
Cd X	4
Rho Z	1
Rho X	1

Hot Rolled Steel Properties

1	Label	F [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/ft^3]	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	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1
9	A500 GR. C RND	29000	11154	.3	.65	.49	46	1.5	62	1.2
10	A500 GR. C RECT	29000	11154	.3	.65	.49	50	1.5	62	1.2
11	A529 Gr. 50	29000	11154	.3	.65	.49	50	1.5	65	1.1

Hot Rolled Steel Section Sets

1	Label	Shape	Type	Design ...	Material	Design ...	A [in2]	Iy [in4]	Izz [in4]	J [in4]
1	Corner Angle	L6.5x2.5x6	None	None	A36 Gr.36	Typical	3.234	1.267	14.224	.143
2	Corner Plate	PL6x3/8	None	None	A36 Gr.36	Typical	2.25	.026	6.75	.101
3	Grating Support	L2x2x4	None	None	A36 Gr.36	Typical	.944	.346	.346	.021
4	Support Arm	HSS4X4X6	None	None	A500 GR. C RECT	Typical	4.78	10.3	10.3	17.5
5	Face Horiz.	Pipe 3.5 OD x .165	None	None	A500 GR. C RND	Typical	1.729	2.409	2.409	4.819
6	Mount Pipe	PIPE 2.5	None	None	A500 GR. C RND	Typical	1.61	1.45	1.45	2.89
7	Support Rail	PIPE 2.5	None	None	A500 GR. C RND	Typical	1.61	1.45	1.45	2.89
8	SR Conn	L6x4x4	None	None	A36 Gr.36	Typical	2.438	3.414	9.274	.049
9	SR Plate	L6x4x4	None	None	A36 Gr.36	Typical	2.438	3.414	9.274	.049
10	Internal Plate	PL6x3/8	None	None	A36 Gr.36	Typical	2.25	.026	6.75	.101



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Cold Formed Steel Section Sets

1	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iy [in4]	Izz [in4]	J [in4]
1	Internals	CU3.38x2.06x0.25	None	None	A1011/A1...	Typical	1.642	.665	2.717	.034

Material Takeoff

1	Material	Size	Pieces	Length[ft]	Weight[K]
2	General				
3	RIGID		36	7.1	0
4	Total General		36	7.1	0
5	Hot Rolled Steel				
6	A36 Gr.36	L2x2x4	6	13.9	.045
7	A36 Gr.36	L6.5x2.5x6	3	9.1	.101
8	A36 Gr.36	L6x4x4	9	11.6	.096
9	A36 Gr.36	PL6x3/8	18	4.5	.034
10	A500 GR. C RECT	HSS4X4X6	3	10.2	.166
11	A500 GR. C RND	Pipe 3.5 OD x .165	3	24	.141
12	A500 GR. C RND	PIPE 2.5	12	102	.559
13	Total HR Steel		54	175.4	1.142
14					
15	Cold Formed Steel				
16	A1011/A1018	CU3.38x2.06x0.25	6	14.7	.082
17	Total CF Steel		6	14.7	.082

Joint Boundary Conditions

1	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	SA2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	SA3	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	SA1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

1	Label	I Joint	J Joint	K Joint	Rotate(...	Section/Shape	Type	Design List	Material	Design R...
1	CP-1B	N90	N109			Corner Angle	None	None	A36 Gr.36	Typical
2	CP-2B	N98A	N94			Corner Angle	None	None	A36 Gr.36	Typical
3	CP-3B	N106	N101			Corner Angle	None	None	A36 Gr.36	Typical
4	CP-1A	N108	N109			Corner Plate	None	None	A36 Gr.36	Typical
5	CP-1C	N89	N90			Corner Plate	None	None	A36 Gr.36	Typical
6	CP-2A	N93A	N94			Corner Plate	None	None	A36 Gr.36	Typical
7	CP-2C	N97	N98A			Corner Plate	None	None	A36 Gr.36	Typical
8	CP-3A	N100	N101			Corner Plate	None	None	A36 Gr.36	Typical
9	CP-3C	N105	N106			Corner Plate	None	None	A36 Gr.36	Typical
10	FFTH	N47	FF1			Face Horiz.	None	None	A500 GR. C RND	Typical
11	SF2-TH	N44	N45			Face Horiz.	None	None	A500 GR. C RND	Typical
12	SF3-TH	N50	N51			Face Horiz.	None	None	A500 GR. C RND	Typical
13	GS-1	P2	P3			Grating Support	None	None	A36 Gr.36	Typical
14	GS-2	P1	P4	270		Grating Support	None	None	A36 Gr.36	Typical
15	GS-3	P10	P11			Grating Support	None	None	A36 Gr.36	Typical
16	GS-4	P9	P12	270		Grating Support	None	None	A36 Gr.36	Typical
17	GS-5	P6	P7			Grating Support	None	None	A36 Gr.36	Typical
18	GS-6	P5	P8	270		Grating Support	None	None	A36 Gr.36	Typical
19	IP-1A	N136	N119			Internal Plate	None	None	A36 Gr.36	Typical
20	IP-1B	N121	N119			Internal Plate	None	None	A36 Gr.36	Typical
21	IP-1C	N112A	N108A			Internal Plate	None	None	A36 Gr.36	Typical



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Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate...	Section/Shape	Type	Design List	Material	Design B...
22	IP-1D	N107A	N108A		Internal Plate	None	None	A36 Gr.36	Typical
23	IP-2A	N111	N112		Internal Plate	None	None	A36 Gr.36	Typical
24	IP-2B	N114	N112		Internal Plate	None	None	A36 Gr.36	Typical
25	IP-2C	N116	N114A		Internal Plate	None	None	A36 Gr.36	Typical
26	IP-2D	N125	N114A		Internal Plate	None	None	A36 Gr.36	Typical
27	IP-3A	N128	N115		Internal Plate	None	None	A36 Gr.36	Typical
28	IP-3B	N117	N115		Internal Plate	None	None	A36 Gr.36	Typical
29	IP-3C	N120	N118		Internal Plate	None	None	A36 Gr.36	Typical
30	IP-3D	N133	N118		Internal Plate	None	None	A36 Gr.36	Typical
31	INT-1A	N130	N112A		Internals	None	None	A1011/A1018	Typical
32	INT-1B	N121	N130		Internals	None	None	A1011/A1018	Typical
33	INT-2A	N28	N120		Internals	None	None	A1011/A1018	Typical
34	INT-2B	N117	N28		Internals	None	None	A1011/A1018	Typical
35	INT-3A	N131	N116		Internals	None	None	A1011/A1018	Typical
36	INT-3B	N114	N131		Internals	None	None	A1011/A1018	Typical
37	MP-1	N42	N43		Mount Pipe	None	None	A500 GR. C RND	Typical
38	MP-2	N46	N47A		Mount Pipe	None	None	A500 GR. C RND	Typical
39	MP-3	N50A	N51A		Mount Pipe	None	None	A500 GR. C RND	Typical
40	MP-4	N176	N177		Mount Pipe	None	None	A500 GR. C RND	Typical
41	MP-5	N180	N181		Mount Pipe	None	None	A500 GR. C RND	Typical
42	MP-6	N184	N185		Mount Pipe	None	None	A500 GR. C RND	Typical
43	MP-7	N158	N159		Mount Pipe	None	None	A500 GR. C RND	Typical
44	MP-8	N162	N163		Mount Pipe	None	None	A500 GR. C RND	Typical
45	MP-9	N166	N167		Mount Pipe	None	None	A500 GR. C RND	Typical
46	M37	N7	N88A		RIGID	None	None	RIGID	Typical
47	M39	N20	N92A		RIGID	None	None	RIGID	Typical
48	M41	N19	N96		RIGID	None	None	RIGID	Typical
49	M43	N32	N99A		RIGID	None	None	RIGID	Typical
50	M45	N31	N104		RIGID	None	None	RIGID	Typical
51	M47	N8	N107		RIGID	None	None	RIGID	Typical
52	M49	N6	N106A		RIGID	None	None	RIGID	Typical
53	M51	N17	N110		RIGID	None	None	RIGID	Typical
54	M59	N18	N124		RIGID	None	None	RIGID	Typical
55	M61	N29	N127		RIGID	None	None	RIGID	Typical
56	M63	N30	N132		RIGID	None	None	RIGID	Typical
57	M65	N5	N135		RIGID	None	None	RIGID	Typical
58	M67	N84	N132A		RIGID	None	None	RIGID	Typical
59	M69	N83A	N136A		RIGID	None	None	RIGID	Typical
60	M71	N86	N140		RIGID	None	None	RIGID	Typical
61	M73	N85	N143		RIGID	None	None	RIGID	Typical
62	M75	N88	N148		RIGID	None	None	RIGID	Typical
63	M77	N87	N151		RIGID	None	None	RIGID	Typical
64	M79	N41	N151A		RIGID	None	None	RIGID	Typical
65	M80	X1	N150A		RIGID	None	None	RIGID	Typical
66	M81	N45A	N155		RIGID	None	None	RIGID	Typical
67	M82	N44A	N154		RIGID	None	None	RIGID	Typical
68	M85	N49	N161		RIGID	None	None	RIGID	Typical
69	M86	N48A	N160		RIGID	None	None	RIGID	Typical
70	M87	N57	N169		RIGID	None	None	RIGID	Typical
71	M88	N56	N168		RIGID	None	None	RIGID	Typical
72	M89	N61	N171		RIGID	None	None	RIGID	Typical
73	M90	N55	N170		RIGID	None	None	RIGID	Typical
74	M93	N65	N173		RIGID	None	None	RIGID	Typical
75	M94	N64	N172		RIGID	None	None	RIGID	Typical
76	M95	N71	N187		RIGID	None	None	RIGID	Typical
77	M96	N70	N186		RIGID	None	None	RIGID	Typical
78	M97	N75	N189		RIGID	None	None	RIGID	Typical



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Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate...	Section/Shape	Type	Design List	Material	Design B...
79	M98	N74	N188		RIGID	None	None	RIGID	Typical
80	M101	N79	N191		RIGID	None	None	RIGID	Typical
81	M102	N78	N190		RIGID	None	None	RIGID	Typical
82	SRC-1B	N153	N134	180	SR Conn	None	None	A36 Gr.36	Typical
83	SRC-2B	N138	N142	180	SR Conn	None	None	A36 Gr.36	Typical
84	SRC-3B	N145	N150	180	SR Conn	None	None	A36 Gr.36	Typical
85	SRC-1A	N152	N153	180	SR Plate	None	None	A36 Gr.36	Typical
86	SRC-1C	N134	N133A	180	SR Plate	None	None	A36 Gr.36	Typical
87	SRC-2A	N137	N138	180	SR Plate	None	None	A36 Gr.36	Typical
88	SRC-2C	N142	N141	180	SR Plate	None	None	A36 Gr.36	Typical
89	SRC-3A	N144	N145	180	SR Plate	None	None	A36 Gr.36	Typical
90	SRC-3C	N150	N149	180	SR Plate	None	None	A36 Gr.36	Typical
91	SA-1	SA1	N3		Support Arm	None	None	A500 GR. C RECT	Typical
92	SA-2	SA2	N27		Support Arm	None	None	A500 GR. C RECT	Typical
93	SA-3	SA3	N15		Support Arm	None	None	A500 GR. C RECT	Typical
94	SR-1	N53	N52		Support Rail	None	None	A500 GR. C RND	Typical
95	SR-2	N99	N98		Support Rail	None	None	A500 GR. C RND	Typical
96	SR-3	N93	N92		Support Rail	None	None	A500 GR. C RND	Typical

Member Advanced Data

Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Ra...	Analysis...	Inactive	Seismi...
1	CP-1B					Yes	** NA **			None
2	CP-2B					Yes	** NA **			None
3	CP-3B					Yes	** NA **			None
4	CP-1A					Yes	** NA **			None
5	CP-1C					Yes	** NA **			None
6	CP-2A					Yes	** NA **			None
7	CP-2C					Yes	** NA **			None
8	CP-3A					Yes	** NA **			None
9	CP-3C					Yes	** NA **			None
10	FFTH					Yes	** NA **			None
11	SF2-TH					Yes	** NA **			None
12	SF3-TH					Yes	** NA **			None
13	GS-1	BenPIN	BenPIN			Yes	** NA **			None
14	GS-2	BenPIN	BenPIN			Yes	** NA **			None
15	GS-3	BenPIN	BenPIN			Yes	** NA **			None
16	GS-4	BenPIN	BenPIN			Yes	** NA **			None
17	GS-5	BenPIN	BenPIN			Yes	** NA **			None
18	GS-6	BenPIN	BenPIN			Yes	** NA **			None
19	IP-1A					Yes	** NA **			None
20	IP-1B					Yes	** NA **			None
21	IP-1C					Yes	** NA **			None
22	IP-1D					Yes	** NA **			None
23	IP-2A					Yes	** NA **			None
24	IP-2B					Yes	** NA **			None
25	IP-2C					Yes	** NA **			None
26	IP-2D					Yes	** NA **			None
27	IP-3A					Yes	** NA **			None
28	IP-3B					Yes	** NA **			None
29	IP-3C					Yes	** NA **			None
30	IP-3D					Yes	** NA **			None
31	INT-1A		OOOXOO			Yes	** NA **			None
32	INT-1B	OOOXOO				Yes	** NA **			None
33	INT-2A		OOOXOO			Yes	** NA **			None
34	INT-2B	OOOXOO				Yes	** NA **			None



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Member Advanced Data (Continued)

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ra.	Analysis...	Inactive	Seismi...
35	INT-3A		OOOXOO			Yes	** NA **			None
36	INT-3B	OOOXOO				Yes	** NA **			None
37	MP-1					Yes	** NA **			None
38	MP-2					Yes	** NA **			None
39	MP-3					Yes	** NA **			None
40	MP-4					Yes	** NA **			None
41	MP-5					Yes	** NA **			None
42	MP-6					Yes	** NA **			None
43	MP-7					Yes	** NA **			None
44	MP-8					Yes	** NA **			None
45	MP-9					Yes	** NA **			None
46	M37	OOOXO				Yes	** NA **			None
47	M39	OOOXO				Yes	** NA **			None
48	M41	OOOXO				Yes	** NA **			None
49	M43	OOOXO				Yes	** NA **			None
50	M45	OOOXO				Yes	** NA **			None
51	M47	OOOXO				Yes	** NA **			None
52	M49	OOOXO				Yes	** NA **			None
53	M51	OOOXO				Yes	** NA **			None
54	M59	OOOXO				Yes	** NA **			None
55	M61	OOOXO				Yes	** NA **			None
56	M63	OOOXO				Yes	** NA **			None
57	M65	OOOXO				Yes	** NA **			None
58	M67					Yes	** NA **			None
59	M69					Yes	** NA **			None
60	M71					Yes	** NA **			None
61	M73					Yes	** NA **			None
62	M75					Yes	** NA **			None
63	M77					Yes	** NA **			None
64	M79					Yes	** NA **			None
65	M80					Yes	** NA **			None
66	M81					Yes	** NA **			None
67	M82					Yes	** NA **			None
68	M85					Yes	** NA **			None
69	M86					Yes	** NA **			None
70	M87					Yes	** NA **			None
71	M88					Yes	** NA **			None
72	M89					Yes	** NA **			None
73	M90					Yes	** NA **			None
74	M93					Yes	** NA **			None
75	M94					Yes	** NA **			None
76	M95					Yes	** NA **			None
77	M96					Yes	** NA **			None
78	M97					Yes	** NA **			None
79	M98					Yes	** NA **			None
80	M101					Yes	** NA **			None
81	M102					Yes	** NA **			None
82	SRC-1B					Yes	** NA **			None
83	SRC-2B					Yes	** NA **			None
84	SRC-3B					Yes	** NA **			None
85	SRC-1A					Yes	** NA **			None
86	SRC-1C					Yes	** NA **			None
87	SRC-2A					Yes	** NA **			None
88	SRC-2C					Yes	** NA **			None
89	SRC-3A					Yes	** NA **			None
90	SRC-3C					Yes	** NA **			None
91	SA-1					Yes	** NA **			None



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Member Advanced Data (Continued)

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ra.	Analysis...	Inactive	Seismi...
92	SA-2					Yes	** NA **			None
93	SA-3					Yes	** NA **			None
94	SR-1					Yes	** NA **			None
95	SR-2					Yes	** NA **			None
96	SR-3					Yes	** NA **			None

Hot Rolled Steel Design Parameters

Label	Shape	Length[ft]	Lby[ft]	Lbzz[ft]	Lcomp to...	Lcomp ...	L-torq...	Kyy	Kzz	Cb	Funct...
1	CP-1B	Corner Angle	3.047	1.75	1.75				1	1	Lateral
2	CP-2B	Corner Angle	3.047	1.75	1.75				1	1	Lateral
3	CP-3B	Corner Angle	3.047	1.75	1.75				1	1	Lateral
4	CP-1A	Corner Plate	.292						1	1	Lateral
5	CP-1C	Corner Plate	.292						1	1	Lateral
6	CP-2A	Corner Plate	.292						1	1	Lateral
7	CP-2C	Corner Plate	.292						1	1	Lateral
8	CP-3A	Corner Plate	.292						1	1	Lateral
9	CP-3C	Corner Plate	.292						1	1	Lateral
10	FFTH	Face Horiz.	8	2.869				2.1	2.1		Lateral
11	SF2-TH	Face Horiz.	8	2.869				2.1	2.1		Lateral
12	SF3-TH	Face Horiz.	8	2.869				2.1	2.1		Lateral
13	GS-1	Grating Support	2.322					1	1		Lateral
14	GS-2	Grating Support	2.322					1	1		Lateral
15	GS-3	Grating Support	2.322					1	1		Lateral
16	GS-4	Grating Support	2.322					1	1		Lateral
17	GS-5	Grating Support	2.322					1	1		Lateral
18	GS-6	Grating Support	2.322					1	1		Lateral
19	IP-1A	Internal Plate	.208					1	1		Lateral
20	IP-1B	Internal Plate	.25					1	1		Lateral
21	IP-1C	Internal Plate	.25					1	1		Lateral
22	IP-1D	Internal Plate	.208					1	1		Lateral
23	IP-2A	Internal Plate	.208					1	1		Lateral
24	IP-2B	Internal Plate	.25					1	1		Lateral
25	IP-2C	Internal Plate	.25					1	1		Lateral
26	IP-2D	Internal Plate	.208					1	1		Lateral
27	IP-3A	Internal Plate	.208					1	1		Lateral
28	IP-3B	Internal Plate	.25					1	1		Lateral
29	IP-3C	Internal Plate	.25					1	1		Lateral
30	IP-3D	Internal Plate	.208					1	1		Lateral
31	MP-1	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
32	MP-2	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
33	MP-3	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
34	MP-4	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
35	MP-5	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
36	MP-6	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
37	MP-7	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
38	MP-8	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
39	MP-9	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
40	SRC-1B	SR Conn	3.102					.65	.65		Lateral
41	SRC-2B	SR Conn	3.102					.65	.65		Lateral
42	SRC-3B	SR Conn	3.102					.65	.65		Lateral
43	SRC-1A	SR Plate	.387					1	1		Lateral
44	SRC-1C	SR Plate	.387					1	1		Lateral
45	SRC-2A	SR Plate	.387					1	1		Lateral
46	SRC-2C	SR Plate	.387					1	1		Lateral
47	SRC-3A	SR Plate	.387					1	1		Lateral



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Load Combinations (Continued)

Description	S...	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...
93	(0.9-0.2Sds)*DL+1.0	Yes	Y	1	.856	E...	-0...	ELZ	-0...									
94	(0.9-0.2Sds)*DL+1.0	Yes	Y	1	.856	E...	-0...	ELZ	-0...									
95	(0.9-0.2Sds)*DL+1.0	Yes	Y	1	.856	0		ELZ	-1...									
96	(0.9-0.2Sds)*DL+1.0	Yes	Y	1	.856	E...	.055	ELZ	-0...									
97	(0.9-0.2Sds)*DL+1.0	Yes	Y	1	.856	E...	.078	ELZ	-0...									
98	(0.9-0.2Sds)*DL+1.0	Yes	Y	1	.856	E...	.096	ELZ	-0...									

Member Point Loads (BLC 1 : Dead)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-2	Y	-0.32	1.5
2	MP-2	Y	-0.64	2
3	MP-2	Y	-0.75	2
4	MP-2	Y	-0.22	4
5	MP-5	Y	-0.32	1.5
6	MP-5	Y	-0.64	2
7	MP-5	Y	-0.75	2
8	MP-8	Y	-0.32	1.5
9	MP-8	Y	-0.64	2
10	MP-8	Y	-0.75	2
11	MP-2	Y	-0.32	6.5
12	MP-5	Y	-0.32	6.5
13	MP-8	Y	-0.32	6.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-2	X	-1.94	1.5
2	MP-2	X	-0.32	2
3	MP-2	X	-0.37	2
4	MP-2	X	-0.58	4
5	MP-5	X	-1.17	1.5
6	MP-5	X	-0.54	2
7	MP-5	X	-0.55	2
8	MP-8	X	-1.17	1.5
9	MP-8	X	-0.54	2
10	MP-8	X	-0.55	2
11	MP-2	X	-1.94	6.5
12	MP-5	X	-1.17	6.5
13	MP-8	X	-1.17	6.5

Member Point Loads (BLC 3 : 30 Wind - No Ice)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-2	X	-1.46	1.5
2	MP-2	X	-0.34	2
3	MP-2	X	-0.37	2
4	MP-2	X	-0.45	4
5	MP-5	X	-0.79	1.5
6	MP-5	X	-0.53	2
7	MP-5	X	-0.53	2
8	MP-8	X	-1.46	1.5
9	MP-8	X	-0.34	2
10	MP-8	X	-0.37	2
11	MP-2	X	-1.46	6.5
12	MP-5	X	-0.79	6.5
13	MP-8	X	-1.46	6.5



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Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
14	MP-2	Z	-0.84	1.5
15	MP-2	Z	-0.2	2
16	MP-2	Z	-0.22	2
17	MP-2	Z	-0.26	4
18	MP-5	Z	-0.46	1.5
19	MP-5	Z	-0.31	2
20	MP-5	Z	-0.31	2
21	MP-8	Z	-0.84	1.5
22	MP-8	Z	-0.2	2
23	MP-8	Z	-0.22	2
24	MP-2	Z	-0.84	6.5
25	MP-5	Z	-0.46	6.5
26	MP-8	Z	-0.84	6.5

Member Point Loads (BLC 4 : 45 Wind - No Ice)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-2	X	-1.01	1.5
2	MP-2	X	-0.33	2
3	MP-2	X	-0.35	2
4	MP-2	X	-0.32	4
5	MP-5	X	-0.69	1.5
6	MP-5	X	-0.42	2
7	MP-5	X	-0.42	2
8	MP-8	X	-1.33	1.5
9	MP-8	X	-0.24	2
10	MP-8	X	-0.27	2
11	MP-2	X	-1.01	6.5
12	MP-5	X	-0.69	6.5
13	MP-8	X	-1.33	6.5
14	MP-2	Z	-1.01	1.5
15	MP-2	Z	-0.33	2
16	MP-2	Z	-0.35	2
17	MP-2	Z	-0.32	4
18	MP-5	Z	-0.69	1.5
19	MP-5	Z	-0.42	2
20	MP-5	Z	-0.42	2
21	MP-8	Z	-1.33	1.5
22	MP-8	Z	-0.24	2
23	MP-8	Z	-0.27	2
24	MP-2	Z	-1.01	6.5
25	MP-5	Z	-0.69	6.5
26	MP-8	Z	-1.33	6.5

Member Point Loads (BLC 5 : 60 Wind - No Ice)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-2	X	-0.59	1.5
2	MP-2	X	-0.27	2
3	MP-2	X	-0.28	2
4	MP-2	X	-0.2	4
5	MP-5	X	-0.59	1.5
6	MP-5	X	-0.27	2
7	MP-5	X	-0.28	2
8	MP-8	X	-0.97	1.5
9	MP-8	X	-0.16	2
10	MP-8	X	-0.19	2
11	MP-2	X	-0.59	6.5



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Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
12	MP-5	X	-.059	6.5
13	MP-8	X	-.097	6.5
14	MP-2	Z	-.101	1.5
15	MP-2	Z	-.047	2
16	MP-2	Z	-.048	2
17	MP-2	Z	-.034	4
18	MP-5	Z	-.101	1.5
19	MP-5	Z	-.047	2
20	MP-5	Z	-.048	2
21	MP-8	Z	-.168	1.5
22	MP-8	Z	-.028	2
23	MP-8	Z	-.032	2
24	MP-2	Z	-.101	6.5
25	MP-5	Z	-.101	6.5
26	MP-8	Z	-.168	6.5

Member Point Loads (BLC 6 : 90 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	Z	-.091	1.5
2	MP-2	Z	-.061	2
3	MP-2	Z	-.061	2
4	MP-2	Z	-.033	4
5	MP-5	Z	-.169	1.5
6	MP-5	Z	-.039	2
7	MP-5	Z	-.043	2
8	MP-8	Z	-.169	1.5
9	MP-8	Z	-.039	2
10	MP-8	Z	-.043	2
11	MP-2	Z	-.091	6.5
12	MP-5	Z	-.169	6.5
13	MP-8	Z	-.169	6.5

Member Point Loads (BLC 7 : 120 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.059	1.5
2	MP-2	X	.027	2
3	MP-2	X	.028	2
4	MP-2	X	.02	4
5	MP-5	X	.097	1.5
6	MP-5	X	.016	2
7	MP-5	X	.019	2
8	MP-8	X	.059	1.5
9	MP-8	X	.027	2
10	MP-8	X	.028	2
11	MP-2	X	.059	6.5
12	MP-5	X	.097	6.5
13	MP-8	X	.059	6.5
14	MP-2	Z	-.101	1.5
15	MP-2	Z	-.047	2
16	MP-2	Z	-.048	2
17	MP-2	Z	-.034	4
18	MP-5	Z	-.168	1.5
19	MP-5	Z	-.028	2
20	MP-5	Z	-.032	2
21	MP-8	Z	-.101	1.5
22	MP-8	Z	-.047	2



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Member Point Loads (BLC 7 : 120 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
23	MP-8	Z	-.048	2
24	MP-2	Z	-.101	6.5
25	MP-5	Z	-.168	6.5
26	MP-8	Z	-.101	6.5

Member Point Loads (BLC 8 : 135 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.101	1.5
2	MP-2	X	.033	2
3	MP-2	X	.035	2
4	MP-2	X	.032	4
5	MP-5	X	.133	1.5
6	MP-5	X	.024	2
7	MP-5	X	.027	2
8	MP-8	X	.069	1.5
9	MP-8	X	.042	2
10	MP-8	X	.042	2
11	MP-2	X	.101	6.5
12	MP-5	X	.133	6.5
13	MP-8	X	.069	6.5
14	MP-2	Z	-.101	1.5
15	MP-2	Z	-.033	2
16	MP-2	Z	-.035	2
17	MP-2	Z	-.032	4
18	MP-5	Z	-.133	1.5
19	MP-5	Z	-.024	2
20	MP-5	Z	-.027	2
21	MP-8	Z	-.069	1.5
22	MP-8	Z	-.042	2
23	MP-8	Z	-.042	2
24	MP-2	Z	-.101	6.5
25	MP-5	Z	-.133	6.5
26	MP-8	Z	-.069	6.5

Member Point Loads (BLC 9 : 150 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.146	1.5
2	MP-2	X	.034	2
3	MP-2	X	.037	2
4	MP-2	X	.045	4
5	MP-5	X	.146	1.5
6	MP-5	X	.034	2
7	MP-5	X	.037	2
8	MP-8	X	.079	1.5
9	MP-8	X	.053	2
10	MP-8	X	.053	2
11	MP-2	X	.146	6.5
12	MP-5	X	.146	6.5
13	MP-8	X	.079	6.5
14	MP-2	Z	-.084	1.5
15	MP-2	Z	-.02	2
16	MP-2	Z	-.022	2
17	MP-2	Z	-.026	4
18	MP-5	Z	-.084	1.5
19	MP-5	Z	-.02	2
20	MP-5	Z	-.022	2



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Member Point Loads (BLC 9 : 150 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
21	MP-8	Z	-.046	1.5
22	MP-8	Z	-.031	2
23	MP-8	Z	-.031	2
24	MP-2	Z	-.084	6.5
25	MP-5	Z	-.084	6.5
26	MP-8	Z	-.046	6.5

Member Point Loads (BLC 10 : 180 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.194	1.5
2	MP-2	X	.032	2
3	MP-2	X	.037	2
4	MP-2	X	.058	4
5	MP-5	X	.117	1.5
6	MP-5	X	.054	2
7	MP-5	X	.055	2
8	MP-8	X	.117	1.5
9	MP-8	X	.054	2
10	MP-8	X	.055	2
11	MP-2	X	.194	6.5
12	MP-5	X	.117	6.5
13	MP-8	X	.117	6.5

Member Point Loads (BLC 11 : 210 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.146	1.5
2	MP-2	X	.034	2
3	MP-2	X	.037	2
4	MP-2	X	.045	4
5	MP-5	X	.079	1.5
6	MP-5	X	.053	2
7	MP-5	X	.053	2
8	MP-8	X	.146	1.5
9	MP-8	X	.034	2
10	MP-8	X	.037	2
11	MP-2	X	.146	6.5
12	MP-5	X	.079	6.5
13	MP-8	X	.146	6.5
14	MP-2	Z	.084	1.5
15	MP-2	Z	.02	2
16	MP-2	Z	.022	2
17	MP-2	Z	.026	4
18	MP-5	Z	.046	1.5
19	MP-5	Z	.031	2
20	MP-5	Z	.031	2
21	MP-8	Z	.084	1.5
22	MP-8	Z	.02	2
23	MP-8	Z	.022	2
24	MP-2	Z	.084	6.5
25	MP-5	Z	.046	6.5
26	MP-8	Z	.084	6.5

Member Point Loads (BLC 12 : 225 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.101	1.5



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Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
2	MP-2	X	.033	2
3	MP-2	X	.035	2
4	MP-2	X	.032	4
5	MP-5	X	.069	1.5
6	MP-5	X	.042	2
7	MP-5	X	.042	2
8	MP-8	X	.133	1.5
9	MP-8	X	.024	2
10	MP-8	X	.027	2
11	MP-2	X	.101	6.5
12	MP-5	X	.069	6.5
13	MP-8	X	.133	6.5
14	MP-2	Z	.101	1.5
15	MP-2	Z	.033	2
16	MP-2	Z	.035	2
17	MP-2	Z	.032	4
18	MP-5	Z	.069	1.5
19	MP-5	Z	.042	2
20	MP-5	Z	.042	2
21	MP-8	Z	.133	1.5
22	MP-8	Z	.024	2
23	MP-8	Z	.027	2
24	MP-2	Z	.101	6.5
25	MP-5	Z	.069	6.5
26	MP-8	Z	.133	6.5

Member Point Loads (BLC 13 : 240 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.059	1.5
2	MP-2	X	.027	2
3	MP-2	X	.028	2
4	MP-2	X	.02	4
5	MP-5	X	.059	1.5
6	MP-5	X	.027	2
7	MP-5	X	.028	2
8	MP-8	X	.097	1.5
9	MP-8	X	.016	2
10	MP-8	X	.019	2
11	MP-2	X	.059	6.5
12	MP-5	X	.059	6.5
13	MP-8	X	.097	6.5
14	MP-2	Z	.101	1.5
15	MP-2	Z	.047	2
16	MP-2	Z	.048	2
17	MP-2	Z	.034	4
18	MP-5	Z	.101	1.5
19	MP-5	Z	.047	2
20	MP-5	Z	.048	2
21	MP-8	Z	.168	1.5
22	MP-8	Z	.028	2
23	MP-8	Z	.032	2
24	MP-2	Z	.101	6.5
25	MP-5	Z	.101	6.5
26	MP-8	Z	.168	6.5



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Member Point Loads (BLC 14 : 270 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	Z	.091	1.5
2	MP-2	Z	.061	2
3	MP-2	Z	.061	2
4	MP-2	Z	.033	4
5	MP-5	Z	.169	1.5
6	MP-5	Z	.039	2
7	MP-5	Z	.043	2
8	MP-8	Z	.169	1.5
9	MP-8	Z	.039	2
10	MP-8	Z	.043	2
11	MP-2	Z	.091	6.5
12	MP-5	Z	.169	6.5
13	MP-8	Z	.169	6.5

Member Point Loads (BLC 15 : 300 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	-.059	1.5
2	MP-2	X	-.027	2
3	MP-2	X	-.028	2
4	MP-2	X	-.02	4
5	MP-5	X	-.097	1.5
6	MP-5	X	-.016	2
7	MP-5	X	-.019	2
8	MP-8	X	-.059	1.5
9	MP-8	X	-.027	2
10	MP-8	X	-.028	2
11	MP-2	X	-.059	6.5
12	MP-5	X	-.097	6.5
13	MP-8	X	-.059	6.5
14	MP-2	Z	.101	1.5
15	MP-2	Z	.047	2
16	MP-2	Z	.048	2
17	MP-2	Z	.034	4
18	MP-5	Z	.168	1.5
19	MP-5	Z	.028	2
20	MP-5	Z	.032	2
21	MP-8	Z	.101	1.5
22	MP-8	Z	.047	2
23	MP-8	Z	.048	2
24	MP-2	Z	.101	6.5
25	MP-5	Z	.168	6.5
26	MP-8	Z	.101	6.5

Member Point Loads (BLC 16 : 315 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	-.101	1.5
2	MP-2	X	-.033	2
3	MP-2	X	-.035	2
4	MP-2	X	-.032	4
5	MP-5	X	-.133	1.5
6	MP-5	X	-.024	2
7	MP-5	X	-.027	2
8	MP-8	X	-.069	1.5
9	MP-8	X	-.042	2
10	MP-8	X	-.042	2
11	MP-2	X	-.101	6.5



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Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
12	MP-5	X	-.133	6.5
13	MP-8	X	-.069	6.5
14	MP-2	Z	.101	1.5
15	MP-2	Z	.033	2
16	MP-2	Z	.035	2
17	MP-2	Z	.032	4
18	MP-5	Z	.133	1.5
19	MP-5	Z	.024	2
20	MP-5	Z	.027	2
21	MP-8	Z	.069	1.5
22	MP-8	Z	.042	2
23	MP-8	Z	.042	2
24	MP-2	Z	.101	6.5
25	MP-5	Z	.133	6.5
26	MP-8	Z	.069	6.5

Member Point Loads (BLC 17 : 330 Wind - No Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	-.146	1.5
2	MP-2	X	-.034	2
3	MP-2	X	-.037	2
4	MP-2	X	-.045	4
5	MP-5	X	-.146	1.5
6	MP-5	X	-.034	2
7	MP-5	X	-.037	2
8	MP-8	X	-.079	1.5
9	MP-8	X	-.053	2
10	MP-8	X	-.053	2
11	MP-2	X	-.146	6.5
12	MP-5	X	-.146	6.5
13	MP-8	X	-.079	6.5
14	MP-2	Z	.084	1.5
15	MP-2	Z	.02	2
16	MP-2	Z	.022	2
17	MP-2	Z	.026	4
18	MP-5	Z	.084	1.5
19	MP-5	Z	.02	2
20	MP-5	Z	.022	2
21	MP-8	Z	.046	1.5
22	MP-8	Z	.031	2
23	MP-8	Z	.031	2
24	MP-2	Z	.084	6.5
25	MP-5	Z	.084	6.5
26	MP-8	Z	.046	6.5

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	Y	-.088	1.5
2	MP-2	Y	-.042	2
3	MP-2	Y	-.044	2
4	MP-2	Y	-.04	4
5	MP-5	Y	-.088	1.5
6	MP-5	Y	-.042	2
7	MP-5	Y	-.044	2
8	MP-8	Y	-.088	1.5
9	MP-8	Y	-.042	2



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Member Point Loads (BLC 18 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
10	MP-8	Y	-0.44	2
11	MP-2	Y	-0.88	6.5
12	MP-5	Y	-0.88	6.5
13	MP-8	Y	-0.88	6.5

Member Point Loads (BLC 19 : 0 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	-0.39	1.5
2	MP-2	X	-0.14	2
3	MP-2	X	-0.14	2
4	MP-2	X	-0.14	4
5	MP-5	X	-0.39	1.5
6	MP-5	X	-0.14	2
7	MP-5	X	-0.14	2
8	MP-8	X	-0.39	1.5
9	MP-8	X	-0.14	2
10	MP-8	X	-0.14	2
11	MP-2	X	-0.39	6.5
12	MP-5	X	-0.39	6.5
13	MP-8	X	-0.39	6.5

Member Point Loads (BLC 20 : 30 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	-0.3	1.5
2	MP-2	X	-0.08	2
3	MP-2	X	-0.09	2
4	MP-2	X	-0.11	4
5	MP-5	X	-0.18	1.5
6	MP-5	X	-0.12	2
7	MP-5	X	-0.12	2
8	MP-8	X	-0.3	1.5
9	MP-8	X	-0.08	2
10	MP-8	X	-0.09	2
11	MP-2	X	-0.3	6.5
12	MP-5	X	-0.18	6.5
13	MP-8	X	-0.3	6.5
14	MP-2	Z	-0.17	1.5
15	MP-2	Z	-0.05	2
16	MP-2	Z	-0.05	2
17	MP-2	Z	-0.06	4
18	MP-5	Z	-0.1	1.5
19	MP-5	Z	-0.07	2
20	MP-5	Z	-0.07	2
21	MP-8	Z	-0.17	1.5
22	MP-8	Z	-0.05	2
23	MP-8	Z	-0.05	2
24	MP-2	Z	-0.17	6.5
25	MP-5	Z	-0.1	6.5
26	MP-8	Z	-0.17	6.5

Member Point Loads (BLC 21 : 45 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	-0.21	1.5
2	MP-2	X	-0.08	2
3	MP-2	X	-0.08	2



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Member Point Loads (BLC 21 : 45 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
4	MP-2	X	-0.08	4
5	MP-5	X	-0.15	1.5
6	MP-5	X	-0.1	2
7	MP-5	X	-0.1	2
8	MP-8	X	-0.27	1.5
9	MP-8	X	-0.06	2
10	MP-8	X	-0.07	2
11	MP-2	X	-0.21	6.5
12	MP-5	X	-0.15	6.5
13	MP-8	X	-0.27	6.5
14	MP-2	Z	-0.21	1.5
15	MP-2	Z	-0.08	2
16	MP-2	Z	-0.08	2
17	MP-2	Z	-0.08	4
18	MP-5	Z	-0.15	1.5
19	MP-5	Z	-0.1	2
20	MP-5	Z	-0.1	2
21	MP-8	Z	-0.27	1.5
22	MP-8	Z	-0.06	2
23	MP-8	Z	-0.07	2
24	MP-2	Z	-0.21	6.5
25	MP-5	Z	-0.15	6.5
26	MP-8	Z	-0.27	6.5

Member Point Loads (BLC 22 : 60 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	-0.13	1.5
2	MP-2	X	-0.06	2
3	MP-2	X	-0.06	2
4	MP-2	X	-0.05	4
5	MP-5	X	-0.13	1.5
6	MP-5	X	-0.06	2
7	MP-5	X	-0.06	2
8	MP-8	X	-0.2	1.5
9	MP-8	X	-0.04	2
10	MP-8	X	-0.05	2
11	MP-2	X	-0.13	6.5
12	MP-5	X	-0.13	6.5
13	MP-8	X	-0.2	6.5
14	MP-2	Z	-0.22	1.5
15	MP-2	Z	-0.11	2
16	MP-2	Z	-0.11	2
17	MP-2	Z	-0.09	4
18	MP-5	Z	-0.22	1.5
19	MP-5	Z	-0.11	2
20	MP-5	Z	-0.11	2
21	MP-8	Z	-0.34	1.5
22	MP-8	Z	-0.07	2
23	MP-8	Z	-0.08	2
24	MP-2	Z	-0.22	6.5
25	MP-5	Z	-0.22	6.5
26	MP-8	Z	-0.34	6.5

Member Point Loads (BLC 23 : 90 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	Z	-0.2	1.5



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Member Point Loads (BLC 23 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
2	MP-2	Z	-0.08	2
3	MP-2	Z	-0.09	2
4	MP-2	Z	-0.09	4
5	MP-5	Z	-0.02	1.5
6	MP-5	Z	-0.08	2
7	MP-5	Z	-0.09	2
8	MP-8	Z	-0.02	1.5
9	MP-8	Z	-0.08	2
10	MP-8	Z	-0.09	2
11	MP-2	Z	-0.02	6.5
12	MP-5	Z	-0.02	6.5
13	MP-8	Z	-0.02	6.5

Member Point Loads (BLC 24 : 120 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.013	1.5
2	MP-2	X	.006	2
3	MP-2	X	.006	2
4	MP-2	X	.005	4
5	MP-5	X	.02	1.5
6	MP-5	X	.004	2
7	MP-5	X	.005	2
8	MP-8	X	.013	1.5
9	MP-8	X	.006	2
10	MP-8	X	.006	2
11	MP-2	X	.013	6.5
12	MP-5	X	.02	6.5
13	MP-8	X	.013	6.5
14	MP-2	Z	-0.022	1.5
15	MP-2	Z	-0.011	2
16	MP-2	Z	-0.011	2
17	MP-2	Z	-0.009	4
18	MP-5	Z	-0.034	1.5
19	MP-5	Z	-0.007	2
20	MP-5	Z	-0.008	2
21	MP-8	Z	-0.022	1.5
22	MP-8	Z	-0.011	2
23	MP-8	Z	-0.011	2
24	MP-2	Z	-0.022	6.5
25	MP-5	Z	-0.034	6.5
26	MP-8	Z	-0.022	6.5

Member Point Loads (BLC 25 : 135 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.021	1.5
2	MP-2	X	.008	2
3	MP-2	X	.008	2
4	MP-2	X	.008	4
5	MP-5	X	.027	1.5
6	MP-5	X	.006	2
7	MP-5	X	.007	2
8	MP-8	X	.015	1.5
9	MP-8	X	.01	2
10	MP-8	X	.01	2
11	MP-2	X	.021	6.5
12	MP-5	X	.027	6.5



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Member Point Loads (BLC 25 : 135 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
13	MP-8	X	.015	6.5
14	MP-2	Z	-0.021	1.5
15	MP-2	Z	-0.008	2
16	MP-2	Z	-0.008	2
17	MP-2	Z	-0.008	4
18	MP-5	Z	-0.027	1.5
19	MP-5	Z	-0.006	2
20	MP-5	Z	-0.007	2
21	MP-8	Z	-0.015	1.5
22	MP-8	Z	-0.01	2
23	MP-8	Z	-0.01	2
24	MP-2	Z	-0.021	6.5
25	MP-5	Z	-0.027	6.5
26	MP-8	Z	-0.015	6.5

Member Point Loads (BLC 26 : 150 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.03	1.5
2	MP-2	X	.008	2
3	MP-2	X	.009	2
4	MP-2	X	.011	4
5	MP-5	X	.03	1.5
6	MP-5	X	.008	2
7	MP-5	X	.009	2
8	MP-8	X	.018	1.5
9	MP-8	X	.012	2
10	MP-8	X	.012	2
11	MP-2	X	.03	6.5
12	MP-5	X	.03	6.5
13	MP-8	X	.018	6.5
14	MP-2	Z	-0.017	1.5
15	MP-2	Z	-0.005	2
16	MP-2	Z	-0.005	2
17	MP-2	Z	-0.006	4
18	MP-5	Z	-0.017	1.5
19	MP-5	Z	-0.005	2
20	MP-5	Z	-0.005	2
21	MP-8	Z	-0.01	1.5
22	MP-8	Z	-0.007	2
23	MP-8	Z	-0.007	2
24	MP-2	Z	-0.017	6.5
25	MP-5	Z	-0.017	6.5
26	MP-8	Z	-0.01	6.5

Member Point Loads (BLC 27 : 180 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.039	1.5
2	MP-2	X	.014	2
3	MP-2	X	.014	2
4	MP-2	X	.014	4
5	MP-5	X	.039	1.5
6	MP-5	X	.014	2
7	MP-5	X	.014	2
8	MP-8	X	.039	1.5
9	MP-8	X	.014	2
10	MP-8	X	.014	2



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Member Point Loads (BLC 27 : 180 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
11	MP-2	X	.039	6.5
12	MP-5	X	.039	6.5
13	MP-8	X	.039	6.5

Member Point Loads (BLC 28 : 210 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.03	1.5
2	MP-2	X	.008	2
3	MP-2	X	.009	2
4	MP-2	X	.011	4
5	MP-5	X	.018	1.5
6	MP-5	X	.012	2
7	MP-5	X	.012	2
8	MP-8	X	.03	1.5
9	MP-8	X	.008	2
10	MP-8	X	.009	2
11	MP-2	X	.03	6.5
12	MP-5	X	.018	6.5
13	MP-8	X	.03	6.5
14	MP-2	Z	.017	1.5
15	MP-2	Z	.005	2
16	MP-2	Z	.005	2
17	MP-2	Z	.006	4
18	MP-5	Z	.01	1.5
19	MP-5	Z	.007	2
20	MP-5	Z	.007	2
21	MP-8	Z	.017	1.5
22	MP-8	Z	.005	2
23	MP-8	Z	.005	2
24	MP-2	Z	.017	6.5
25	MP-5	Z	.01	6.5
26	MP-8	Z	.017	6.5

Member Point Loads (BLC 29 : 225 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.021	1.5
2	MP-2	X	.008	2
3	MP-2	X	.008	2
4	MP-2	X	.008	4
5	MP-5	X	.015	1.5
6	MP-5	X	.01	2
7	MP-5	X	.01	2
8	MP-8	X	.027	1.5
9	MP-8	X	.006	2
10	MP-8	X	.007	2
11	MP-2	X	.021	6.5
12	MP-5	X	.015	6.5
13	MP-8	X	.027	6.5
14	MP-2	Z	.021	1.5
15	MP-2	Z	.008	2
16	MP-2	Z	.008	2
17	MP-2	Z	.008	4
18	MP-5	Z	.015	1.5
19	MP-5	Z	.01	2
20	MP-5	Z	.01	2
21	MP-8	Z	.027	1.5



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Member Point Loads (BLC 29 : 225 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
22	MP-8	Z	.006	2
23	MP-8	Z	.007	2
24	MP-2	Z	.021	6.5
25	MP-5	Z	.015	6.5
26	MP-8	Z	.027	6.5

Member Point Loads (BLC 30 : 240 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	.013	1.5
2	MP-2	X	.006	2
3	MP-2	X	.006	2
4	MP-2	X	.005	4
5	MP-5	X	.013	1.5
6	MP-5	X	.006	2
7	MP-5	X	.006	2
8	MP-8	X	.02	1.5
9	MP-8	X	.004	2
10	MP-8	X	.005	2
11	MP-2	X	.013	6.5
12	MP-5	X	.013	6.5
13	MP-8	X	.02	6.5
14	MP-2	Z	.022	1.5
15	MP-2	Z	.011	2
16	MP-2	Z	.011	2
17	MP-2	Z	.009	4
18	MP-5	Z	.022	1.5
19	MP-5	Z	.011	2
20	MP-5	Z	.011	2
21	MP-8	Z	.034	1.5
22	MP-8	Z	.007	2
23	MP-8	Z	.008	2
24	MP-2	Z	.022	6.5
25	MP-5	Z	.022	6.5
26	MP-8	Z	.034	6.5

Member Point Loads (BLC 31 : 270 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	Z	.02	1.5
2	MP-2	Z	.008	2
3	MP-2	Z	.009	2
4	MP-2	Z	.009	4
5	MP-5	Z	.02	1.5
6	MP-5	Z	.008	2
7	MP-5	Z	.009	2
8	MP-8	Z	.02	1.5
9	MP-8	Z	.008	2
10	MP-8	Z	.009	2
11	MP-2	Z	.02	6.5
12	MP-5	Z	.02	6.5
13	MP-8	Z	.02	6.5

Member Point Loads (BLC 32 : 300 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	-.013	1.5
2	MP-2	X	-.006	2



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Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
3	MP-2	X	-0.06	2
4	MP-2	X	-0.005	4
5	MP-5	X	-0.02	1.5
6	MP-5	X	-0.004	2
7	MP-5	X	-0.005	2
8	MP-8	X	-0.013	1.5
9	MP-8	X	-0.006	2
10	MP-8	X	-0.006	2
11	MP-2	X	-0.013	6.5
12	MP-5	X	-0.02	6.5
13	MP-8	X	-0.013	6.5
14	MP-2	Z	.022	1.5
15	MP-2	Z	.011	2
16	MP-2	Z	.011	2
17	MP-2	Z	.009	4
18	MP-5	Z	.034	1.5
19	MP-5	Z	.007	2
20	MP-5	Z	.008	2
21	MP-8	Z	.022	1.5
22	MP-8	Z	.011	2
23	MP-8	Z	.011	2
24	MP-2	Z	.022	6.5
25	MP-5	Z	.034	6.5
26	MP-8	Z	.022	6.5

Member Point Loads (BLC 33 : 315 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	-0.021	1.5
2	MP-2	X	-0.008	2
3	MP-2	X	-0.008	2
4	MP-2	X	-0.008	4
5	MP-5	X	-0.027	1.5
6	MP-5	X	-0.006	2
7	MP-5	X	-0.007	2
8	MP-8	X	-0.015	1.5
9	MP-8	X	-.01	2
10	MP-8	X	-.01	2
11	MP-2	X	-0.021	6.5
12	MP-5	X	-0.027	6.5
13	MP-8	X	-0.015	6.5
14	MP-2	Z	.021	1.5
15	MP-2	Z	.008	2
16	MP-2	Z	.008	2
17	MP-2	Z	.008	4
18	MP-5	Z	.027	1.5
19	MP-5	Z	.006	2
20	MP-5	Z	.007	2
21	MP-8	Z	.015	1.5
22	MP-8	Z	.01	2
23	MP-8	Z	.01	2
24	MP-2	Z	.021	6.5
25	MP-5	Z	.027	6.5
26	MP-8	Z	.015	6.5

Member Point Loads (BLC 34 : 330 Wind - Ice)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
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Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	-0.03	1.5
2	MP-2	X	-0.008	2
3	MP-2	X	-0.009	2
4	MP-2	X	-0.011	4
5	MP-5	X	-0.03	1.5
6	MP-5	X	-0.008	2
7	MP-5	X	-0.009	2
8	MP-8	X	-0.018	1.5
9	MP-8	X	-0.012	2
10	MP-8	X	-0.012	2
11	MP-2	X	-.03	6.5
12	MP-5	X	-.03	6.5
13	MP-8	X	-0.018	6.5
14	MP-2	Z	.017	1.5
15	MP-2	Z	.005	2
16	MP-2	Z	.005	2
17	MP-2	Z	.006	4
18	MP-5	Z	.017	1.5
19	MP-5	Z	.005	2
20	MP-5	Z	.005	2
21	MP-8	Z	.01	1.5
22	MP-8	Z	.007	2
23	MP-8	Z	.007	2
24	MP-2	Z	.017	6.5
25	MP-5	Z	.017	6.5
26	MP-8	Z	.01	6.5

Member Point Loads (BLC 37 : Seismic Load X)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	X	-0.032	1.5
2	MP-2	X	-0.064	2
3	MP-2	X	-0.075	2
4	MP-2	X	-0.022	4
5	MP-5	X	-0.032	1.5
6	MP-5	X	-0.064	2
7	MP-5	X	-0.075	2
8	MP-8	X	-0.032	1.5
9	MP-8	X	-0.064	2
10	MP-8	X	-0.075	2
11	MP-2	X	-0.032	6.5
12	MP-5	X	-0.032	6.5
13	MP-8	X	-0.032	6.5

Member Point Loads (BLC 38 : Seismic Load Z)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-2	Z	-0.032	1.5
2	MP-2	Z	-0.064	2
3	MP-2	Z	-0.075	2
4	MP-2	Z	-0.022	4
5	MP-5	Z	-0.032	1.5
6	MP-5	Z	-0.064	2
7	MP-5	Z	-0.075	2
8	MP-8	Z	-0.032	1.5
9	MP-8	Z	-0.064	2
10	MP-8	Z	-0.075	2
11	MP-2	Z	-0.032	6.5



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Member Point Loads (BLC 38 : Seismic Load Z) (Continued)

Member Label	Direction	Magnitude[k.ft]	Location(ft.%)	
12	MP-5	Z	-032	6.5
13	MP-8	Z	-032	6.5

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location(ft.%)
1	CP-1B	X	-01	0	%100
2	CP-2B	X	-01	0	%100
3	CP-3B	X	-023	0	%100
4	CP-1A	X	-009	0	%100
5	CP-1C	X	-019	0	%100
6	CP-2A	X	-019	0	%100
7	CP-2C	X	-009	0	%100
8	CP-3A	X	-009	0	%100
9	CP-3C	X	-009	0	%100
10	FFTH	X	-01	0	%100
11	SF2-TH	X	-004	0	%100
12	SF3-TH	X	-004	0	%100
13	GS-1	X	-008	0	%100
14	GS-2	X	-004	0	%100
15	GS-3	X	-003	0	%100
16	GS-4	X	-003	0	%100
17	GS-5	X	-004	0	%100
18	GS-6	X	-008	0	%100
19	IP-1A	X	-009	0	%100
20	IP-1B	X	-009	0	%100
21	IP-1C	X	-009	0	%100
22	IP-1D	X	-019	0	%100
23	IP-2A	X	-019	0	%100
24	IP-2B	X	-009	0	%100
25	IP-2C	X	-009	0	%100
26	IP-2D	X	-009	0	%100
27	IP-3A	X	-009	0	%100
28	IP-3B	X	-019	0	%100
29	IP-3C	X	-019	0	%100
30	IP-3D	X	-009	0	%100
31	INT-1A	X	-006	0	%100
32	INT-1B	X	-006	0	%100
33	INT-2A	X	-013	0	%100
34	INT-2B	X	-013	0	%100
35	INT-3A	X	-006	0	%100
36	INT-3B	X	-006	0	%100
37	MP-1	X	-009	0	%100
38	MP-2	X	-009	0	%100
39	MP-3	X	-009	0	%100
40	MP-4	X	-009	0	%100
41	MP-5	X	-009	0	%100
42	MP-6	X	-009	0	%100
43	MP-7	X	-009	0	%100
44	MP-8	X	-009	0	%100
45	MP-9	X	-009	0	%100
46	SRC-1B	X	-01	0	%100
47	SRC-2B	X	-01	0	%100
48	SRC-3B	X	-021	0	%100
49	SRC-1A	X	-009	0	%100
50	SRC-1C	X	-019	0	%100



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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location(ft.%)
51	SRC-2A	X	-019	0	%100
52	SRC-2C	X	-009	0	%100
53	SRC-3A	X	-009	0	%100
54	SRC-3C	X	-009	0	%100
55	SA-1	X	-013	0	%100
56	SA-2	X	0	0	%100
57	SA-3	X	-013	0	%100
58	SR-1	X	-009	0	%100
59	SR-2	X	-004	0	%100
60	SR-3	X	-004	0	%100

Member Distributed Loads (BLC 3 : 30 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location(ft.%)
1	CP-1B	X	-015	0	%100
2	CP-2B	X	0	0	%100
3	CP-3B	X	-017	0	%100
4	CP-1A	X	0	0	%100
5	CP-1C	X	-014	0	%100
6	CP-2A	X	-014	0	%100
7	CP-2C	X	-014	0	%100
8	CP-3A	X	-014	0	%100
9	CP-3C	X	0	0	%100
10	FFTH	X	-008	0	%100
11	SF2-TH	X	0	0	%100
12	SF3-TH	X	-005	0	%100
13	GS-1	X	-006	0	%100
14	GS-2	X	-000172	0	%100
15	GS-3	X	-000169	0	%100
16	GS-4	X	-005	0	%100
17	GS-5	X	-006	0	%100
18	GS-6	X	-006	0	%100
19	IP-1A	X	0	0	%100
20	IP-1B	X	-014	0	%100
21	IP-1C	X	-014	0	%100
22	IP-1D	X	-014	0	%100
23	IP-2A	X	-014	0	%100
24	IP-2B	X	0	0	%100
25	IP-2C	X	0	0	%100
26	IP-2D	X	-014	0	%100
27	IP-3A	X	-014	0	%100
28	IP-3B	X	-014	0	%100
29	IP-3C	X	-014	0	%100
30	IP-3D	X	0	0	%100
31	INT-1A	X	-008	0	%100
32	INT-1B	X	-008	0	%100
33	INT-2A	X	-01	0	%100
34	INT-2B	X	-01	0	%100
35	INT-3A	X	0	0	%100
36	INT-3B	X	0	0	%100
37	MP-1	X	-008	0	%100
38	MP-2	X	-008	0	%100
39	MP-3	X	-008	0	%100
40	MP-4	X	-008	0	%100
41	MP-5	X	-008	0	%100
42	MP-6	X	-008	0	%100
43	MP-7	X	-008	0	%100



Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
44	MP-8	X	-0.08	-0.08	0 %100
45	MP-9	X	-0.08	-0.08	0 %100
46	SRC-1B	X	-0.14	-0.14	0 %100
47	SRC-2B	X	0	0	0 %100
48	SRC-3B	X	-0.16	-0.16	0 %100
49	SRC-1A	X	0	0	0 %100
50	SRC-1C	X	-0.14	-0.14	0 %100
51	SRC-2A	X	-0.14	-0.14	0 %100
52	SRC-2C	X	-0.14	-0.14	0 %100
53	SRC-3A	X	-0.14	-0.14	0 %100
54	SRC-3C	X	0	0	0 %100
55	SA-1	X	-0.07	-0.07	0 %100
56	SA-2	X	-0.05	-0.05	0 %100
57	SA-3	X	-0.13	-0.13	0 %100
58	SR-1	X	-0.07	-0.07	0 %100
59	SR-2	X	0	0	0 %100
60	SR-3	X	-0.06	-0.06	0 %100
61	CP-1B	Z	-0.1	-0.1	0 %100
62	CP-2B	Z	0	0	0 %100
63	CP-3B	Z	-0.1	-0.1	0 %100
64	CP-1A	Z	0	0	0 %100
65	CP-1C	Z	-0.08	-0.08	0 %100
66	CP-2A	Z	-0.08	-0.08	0 %100
67	CP-2C	Z	-0.08	-0.08	0 %100
68	CP-3A	Z	-0.08	-0.08	0 %100
69	CP-3C	Z	0	0	0 %100
70	FFTH	Z	-0.04	-0.04	0 %100
71	SF2-TH	Z	0	0	0 %100
72	SF3-TH	Z	-0.04	-0.04	0 %100
73	GS-1	Z	-0.03	-0.03	0 %100
74	GS-2	Z	-0.0011	-0.0011	0 %100
75	GS-3	Z	-0.00111	-0.00111	0 %100
76	GS-4	Z	-0.03	-0.03	0 %100
77	GS-5	Z	-0.04	-0.04	0 %100
78	GS-6	Z	-0.03	-0.03	0 %100
79	IP-1A	Z	0	0	0 %100
80	IP-1B	Z	-0.08	-0.08	0 %100
81	IP-1C	Z	-0.08	-0.08	0 %100
82	IP-1D	Z	-0.08	-0.08	0 %100
83	IP-2A	Z	-0.08	-0.08	0 %100
84	IP-2B	Z	0	0	0 %100
85	IP-2C	Z	0	0	0 %100
86	IP-2D	Z	-0.08	-0.08	0 %100
87	IP-3A	Z	-0.08	-0.08	0 %100
88	IP-3B	Z	-0.08	-0.08	0 %100
89	IP-3C	Z	-0.08	-0.08	0 %100
90	IP-3D	Z	0	0	0 %100
91	INT-1A	Z	-0.05	-0.05	0 %100
92	INT-1B	Z	-0.05	-0.05	0 %100
93	INT-2A	Z	-0.06	-0.06	0 %100
94	INT-2B	Z	-0.06	-0.06	0 %100
95	INT-3A	Z	0	0	0 %100
96	INT-3B	Z	0	0	0 %100
97	MP-1	Z	-0.04	-0.04	0 %100
98	MP-2	Z	-0.04	-0.04	0 %100
99	MP-3	Z	-0.04	-0.04	0 %100
100	MP-4	Z	-0.04	-0.04	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
101	MP-5	Z	-0.04	-0.04	0 %100
102	MP-6	Z	-0.04	-0.04	0 %100
103	MP-7	Z	-0.04	-0.04	0 %100
104	MP-8	Z	-0.04	-0.04	0 %100
105	MP-9	Z	-0.04	-0.04	0 %100
106	SRC-1B	Z	-0.09	-0.09	0 %100
107	SRC-2B	Z	0	0	0 %100
108	SRC-3B	Z	-0.09	-0.09	0 %100
109	SRC-1A	Z	0	0	0 %100
110	SRC-1C	Z	-0.08	-0.08	0 %100
111	SRC-2A	Z	-0.08	-0.08	0 %100
112	SRC-2C	Z	-0.08	-0.08	0 %100
113	SRC-3A	Z	-0.08	-0.08	0 %100
114	SRC-3C	Z	0	0	0 %100
115	SA-1	Z	-0.03	-0.03	0 %100
116	SA-2	Z	-0.04	-0.04	0 %100
117	SA-3	Z	-0.07	-0.07	0 %100
118	SR-1	Z	-0.04	-0.04	0 %100
119	SR-2	Z	0	0	0 %100
120	SR-3	Z	-0.04	-0.04	0 %100

Member Distributed Loads (BLC 4 : 45 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	-0.14	-0.14	0 %100
2	CP-2B	X	-0.04	-0.04	0 %100
3	CP-3B	X	-0.11	-0.11	0 %100
4	CP-1A	X	-0.03	-0.03	0 %100
5	CP-1C	X	-0.09	-0.09	0 %100
6	CP-2A	X	-0.09	-0.09	0 %100
7	CP-2C	X	-0.13	-0.13	0 %100
8	CP-3A	X	-0.13	-0.13	0 %100
9	CP-3C	X	-0.03	-0.03	0 %100
10	FFTH	X	-0.05	-0.05	0 %100
11	SF2-TH	X	-0.01	-0.01	0 %100
12	SF3-TH	X	-0.05	-0.05	0 %100
13	GS-1	X	-0.04	-0.04	0 %100
14	GS-2	X	-0.01	-0.01	0 %100
15	GS-3	X	-0.01	-0.01	0 %100
16	GS-4	X	-0.05	-0.05	0 %100
17	GS-5	X	-0.05	-0.05	0 %100
18	GS-6	X	-0.04	-0.04	0 %100
19	IP-1A	X	-0.03	-0.03	0 %100
20	IP-1B	X	-0.13	-0.13	0 %100
21	IP-1C	X	-0.13	-0.13	0 %100
22	IP-1D	X	-0.09	-0.09	0 %100
23	IP-2A	X	-0.09	-0.09	0 %100
24	IP-2B	X	-0.03	-0.03	0 %100
25	IP-2C	X	-0.03	-0.03	0 %100
26	IP-2D	X	-0.13	-0.13	0 %100
27	IP-3A	X	-0.13	-0.13	0 %100
28	IP-3B	X	-0.09	-0.09	0 %100
29	IP-3C	X	-0.09	-0.09	0 %100
30	IP-3D	X	-0.03	-0.03	0 %100
31	INT-1A	X	-0.08	-0.08	0 %100
32	INT-1B	X	-0.08	-0.08	0 %100
33	INT-2A	X	-0.06	-0.06	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
34	INT-2B	X	-0.06	-0.06	0 %100
35	INT-3A	X	-0.02	-0.02	0 %100
36	INT-3B	X	-0.02	-0.02	0 %100
37	MP-1	X	-0.06	-0.06	0 %100
38	MP-2	X	-0.06	-0.06	0 %100
39	MP-3	X	-0.06	-0.06	0 %100
40	MP-4	X	-0.06	-0.06	0 %100
41	MP-5	X	-0.06	-0.06	0 %100
42	MP-6	X	-0.06	-0.06	0 %100
43	MP-7	X	-0.06	-0.06	0 %100
44	MP-8	X	-0.06	-0.06	0 %100
45	MP-9	X	-0.06	-0.06	0 %100
46	SRC-1B	X	-0.13	-0.13	0 %100
47	SRC-2B	X	-0.03	-0.03	0 %100
48	SRC-3B	X	-0.11	-0.11	0 %100
49	SRC-1A	X	-0.03	-0.03	0 %100
50	SRC-1C	X	-0.09	-0.09	0 %100
51	SRC-2A	X	-0.09	-0.09	0 %100
52	SRC-2C	X	-0.13	-0.13	0 %100
53	SRC-3A	X	-0.13	-0.13	0 %100
54	SRC-3C	X	-0.03	-0.03	0 %100
55	SA-1	X	-0.03	-0.03	0 %100
56	SA-2	X	-0.06	-0.06	0 %100
57	SA-3	X	-0.1	-0.1	0 %100
58	SR-1	X	-0.04	-0.04	0 %100
59	SR-2	X	-0.02	-0.02	0 %100
60	SR-3	X	-0.06	-0.06	0 %100
61	CP-1B	Z	-0.15	-0.15	0 %100
62	CP-2B	Z	-0.04	-0.04	0 %100
63	CP-3B	Z	-0.11	-0.11	0 %100
64	CP-1A	Z	-0.03	-0.03	0 %100
65	CP-1C	Z	-0.09	-0.09	0 %100
66	CP-2A	Z	-0.09	-0.09	0 %100
67	CP-2C	Z	-0.13	-0.13	0 %100
68	CP-3A	Z	-0.13	-0.13	0 %100
69	CP-3C	Z	-0.03	-0.03	0 %100
70	FFTH	Z	-0.05	-0.05	0 %100
71	SF2-TH	Z	-0.02	-0.02	0 %100
72	SF3-TH	Z	-0.07	-0.07	0 %100
73	GS-1	Z	-0.03	-0.03	0 %100
74	GS-2	Z	-0.01	-0.01	0 %100
75	GS-3	Z	-0.02	-0.02	0 %100
76	GS-4	Z	-0.06	-0.06	0 %100
77	GS-5	Z	-0.06	-0.06	0 %100
78	GS-6	Z	-0.03	-0.03	0 %100
79	IP-1A	Z	-0.03	-0.03	0 %100
80	IP-1B	Z	-0.13	-0.13	0 %100
81	IP-1C	Z	-0.13	-0.13	0 %100
82	IP-1D	Z	-0.09	-0.09	0 %100
83	IP-2A	Z	-0.09	-0.09	0 %100
84	IP-2B	Z	-0.03	-0.03	0 %100
85	IP-2C	Z	-0.03	-0.03	0 %100
86	IP-2D	Z	-0.13	-0.13	0 %100
87	IP-3A	Z	-0.13	-0.13	0 %100
88	IP-3B	Z	-0.09	-0.09	0 %100
89	IP-3C	Z	-0.09	-0.09	0 %100
90	IP-3D	Z	-0.03	-0.03	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
91	INT-1A	Z	-0.08	-0.08	0 %100
92	INT-1B	Z	-0.08	-0.08	0 %100
93	INT-2A	Z	-0.06	-0.06	0 %100
94	INT-2B	Z	-0.06	-0.06	0 %100
95	INT-3A	Z	-0.02	-0.02	0 %100
96	INT-3B	Z	-0.02	-0.02	0 %100
97	MP-1	Z	-0.06	-0.06	0 %100
98	MP-2	Z	-0.06	-0.06	0 %100
99	MP-3	Z	-0.06	-0.06	0 %100
100	MP-4	Z	-0.06	-0.06	0 %100
101	MP-5	Z	-0.06	-0.06	0 %100
102	MP-6	Z	-0.06	-0.06	0 %100
103	MP-7	Z	-0.06	-0.06	0 %100
104	MP-8	Z	-0.06	-0.06	0 %100
105	MP-9	Z	-0.06	-0.06	0 %100
106	SRC-1B	Z	-0.14	-0.14	0 %100
107	SRC-2B	Z	-0.04	-0.04	0 %100
108	SRC-3B	Z	-0.11	-0.11	0 %100
109	SRC-1A	Z	-0.03	-0.03	0 %100
110	SRC-1C	Z	-0.09	-0.09	0 %100
111	SRC-2A	Z	-0.09	-0.09	0 %100
112	SRC-2C	Z	-0.13	-0.13	0 %100
113	SRC-3A	Z	-0.13	-0.13	0 %100
114	SRC-3C	Z	-0.03	-0.03	0 %100
115	SA-1	Z	-0.03	-0.03	0 %100
116	SA-2	Z	-0.08	-0.08	0 %100
117	SA-3	Z	-0.09	-0.09	0 %100
118	SR-1	Z	-0.04	-0.04	0 %100
119	SR-2	Z	-0.02	-0.02	0 %100
120	SR-3	Z	-0.06	-0.06	0 %100

Member Distributed Loads (BLC 5 : 60 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	-0.1	-0.1	0 %100
2	CP-2B	X	-0.05	-0.05	0 %100
3	CP-3B	X	-0.06	-0.06	0 %100
4	CP-1A	X	-0.05	-0.05	0 %100
5	CP-1C	X	-0.05	-0.05	0 %100
6	CP-2A	X	-0.05	-0.05	0 %100
7	CP-2C	X	-0.09	-0.09	0 %100
8	CP-3A	X	-0.09	-0.09	0 %100
9	CP-3C	X	-0.05	-0.05	0 %100
10	FFTH	X	-0.03	-0.03	0 %100
11	SF2-TH	X	-0.02	-0.02	0 %100
12	SF3-TH	X	-0.04	-0.04	0 %100
13	GS-1	X	-0.02	-0.02	0 %100
14	GS-2	X	-0.02	-0.02	0 %100
15	GS-3	X	-0.02	-0.02	0 %100
16	GS-4	X	-0.04	-0.04	0 %100
17	GS-5	X	-0.04	-0.04	0 %100
18	GS-6	X	-0.02	-0.02	0 %100
19	IP-1A	X	-0.05	-0.05	0 %100
20	IP-1B	X	-0.09	-0.09	0 %100
21	IP-1C	X	-0.09	-0.09	0 %100
22	IP-1D	X	-0.05	-0.05	0 %100
23	IP-2A	X	-0.05	-0.05	0 %100



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 Designer : NPD
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Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
24	IP-2B	X	-0.005	-0.005	0 %100
25	IP-2C	X	-0.005	-0.005	0 %100
26	IP-2D	X	-0.009	-0.009	0 %100
27	IP-3A	X	-0.009	-0.009	0 %100
28	IP-3B	X	-0.005	-0.005	0 %100
29	IP-3C	X	-0.005	-0.005	0 %100
30	IP-3D	X	-0.005	-0.005	0 %100
31	INT-1A	X	-0.006	-0.006	0 %100
32	INT-1B	X	-0.006	-0.006	0 %100
33	INT-2A	X	-0.003	-0.003	0 %100
34	INT-2B	X	-0.003	-0.003	0 %100
35	INT-3A	X	-0.003	-0.003	0 %100
36	INT-3B	X	-0.003	-0.003	0 %100
37	MP-1	X	-0.004	-0.004	0 %100
38	MP-2	X	-0.004	-0.004	0 %100
39	MP-3	X	-0.004	-0.004	0 %100
40	MP-4	X	-0.004	-0.004	0 %100
41	MP-5	X	-0.004	-0.004	0 %100
42	MP-6	X	-0.004	-0.004	0 %100
43	MP-7	X	-0.004	-0.004	0 %100
44	MP-8	X	-0.004	-0.004	0 %100
45	MP-9	X	-0.004	-0.004	0 %100
46	SRC-1B	X	-0.01	-0.01	0 %100
47	SRC-2B	X	-0.005	-0.005	0 %100
48	SRC-3B	X	-0.005	-0.005	0 %100
49	SRC-1A	X	-0.005	-0.005	0 %100
50	SRC-1C	X	-0.005	-0.005	0 %100
51	SRC-2A	X	-0.005	-0.005	0 %100
52	SRC-2C	X	-0.009	-0.009	0 %100
53	SRC-3A	X	-0.009	-0.009	0 %100
54	SRC-3C	X	-0.005	-0.005	0 %100
55	SA-1	X	0	0	0 %100
56	SA-2	X	-0.005	-0.005	0 %100
57	SA-3	X	-0.007	-0.007	0 %100
58	SR-1	X	-0.002	-0.002	0 %100
59	SR-2	X	-0.002	-0.002	0 %100
60	SR-3	X	-0.004	-0.004	0 %100
61	CP-1B	Z	-0.019	-0.019	0 %100
62	CP-2B	Z	-0.01	-0.01	0 %100
63	CP-3B	Z	-0.01	-0.01	0 %100
64	CP-1A	Z	-0.008	-0.008	0 %100
65	CP-1C	Z	-0.008	-0.008	0 %100
66	CP-2A	Z	-0.008	-0.008	0 %100
67	CP-2C	Z	-0.016	-0.016	0 %100
68	CP-3A	Z	-0.016	-0.016	0 %100
69	CP-3C	Z	-0.008	-0.008	0 %100
70	FFTH	Z	-0.004	-0.004	0 %100
71	SF2-TH	Z	-0.004	-0.004	0 %100
72	SF3-TH	Z	-0.008	-0.008	0 %100
73	GS-1	Z	-0.003	-0.003	0 %100
74	GS-2	Z	-0.003	-0.003	0 %100
75	GS-3	Z	-0.004	-0.004	0 %100
76	GS-4	Z	-0.007	-0.007	0 %100
77	GS-5	Z	-0.007	-0.007	0 %100
78	GS-6	Z	-0.003	-0.003	0 %100
79	IP-1A	Z	-0.008	-0.008	0 %100
80	IP-1B	Z	-0.016	-0.016	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
81	IP-1C	Z	-0.016	-0.016	0 %100
82	IP-1D	Z	-0.008	-0.008	0 %100
83	IP-2A	Z	-0.008	-0.008	0 %100
84	IP-2B	Z	-0.008	-0.008	0 %100
85	IP-2C	Z	-0.008	-0.008	0 %100
86	IP-2D	Z	-0.016	-0.016	0 %100
87	IP-3A	Z	-0.016	-0.016	0 %100
88	IP-3B	Z	-0.008	-0.008	0 %100
89	IP-3C	Z	-0.008	-0.008	0 %100
90	IP-3D	Z	-0.008	-0.008	0 %100
91	INT-1A	Z	-0.011	-0.011	0 %100
92	INT-1B	Z	-0.011	-0.011	0 %100
93	INT-2A	Z	-0.006	-0.006	0 %100
94	INT-2B	Z	-0.006	-0.006	0 %100
95	INT-3A	Z	-0.005	-0.005	0 %100
96	INT-3B	Z	-0.005	-0.005	0 %100
97	MP-1	Z	-0.008	-0.008	0 %100
98	MP-2	Z	-0.008	-0.008	0 %100
99	MP-3	Z	-0.008	-0.008	0 %100
100	MP-4	Z	-0.008	-0.008	0 %100
101	MP-5	Z	-0.008	-0.008	0 %100
102	MP-6	Z	-0.008	-0.008	0 %100
103	MP-7	Z	-0.008	-0.008	0 %100
104	MP-8	Z	-0.008	-0.008	0 %100
105	MP-9	Z	-0.008	-0.008	0 %100
106	SRC-1B	Z	-0.018	-0.018	0 %100
107	SRC-2B	Z	-0.009	-0.009	0 %100
108	SRC-3B	Z	-0.009	-0.009	0 %100
109	SRC-1A	Z	-0.008	-0.008	0 %100
110	SRC-1C	Z	-0.008	-0.008	0 %100
111	SRC-2A	Z	-0.008	-0.008	0 %100
112	SRC-2C	Z	-0.016	-0.016	0 %100
113	SRC-3A	Z	-0.016	-0.016	0 %100
114	SRC-3C	Z	-0.008	-0.008	0 %100
115	SA-1	Z	0	0	0 %100
116	SA-2	Z	-0.012	-0.012	0 %100
117	SA-3	Z	-0.01	-0.01	0 %100
118	SR-1	Z	-0.004	-0.004	0 %100
119	SR-2	Z	-0.004	-0.004	0 %100
120	SR-3	Z	-0.008	-0.008	0 %100

Member Distributed Loads (BLC 6 : 90 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	Z	-0.019	-0.019	0 %100
2	CP-2B	Z	-0.019	-0.019	0 %100
3	CP-3B	Z	0	0	0 %100
4	CP-1A	Z	-0.016	-0.016	0 %100
5	CP-1C	Z	0	0	0 %100
6	CP-2A	Z	0	0	0 %100
7	CP-2C	Z	-0.016	-0.016	0 %100
8	CP-3A	Z	-0.016	-0.016	0 %100
9	CP-3C	Z	-0.016	-0.016	0 %100
10	FFTH	Z	0	0	0 %100
11	SF2-TH	Z	-0.008	-0.008	0 %100
12	SF3-TH	Z	-0.008	-0.008	0 %100
13	GS-1	Z	-0.000169	-0.000169	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 6 : 90 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
14	GS-2	Z	-0.07	-0.07	0 %100
15	GS-3	Z	-0.07	-0.07	0 %100
16	GS-4	Z	-0.07	-0.07	0 %100
17	GS-5	Z	-0.07	-0.07	0 %100
18	GS-6	Z	-0.00169	-0.00169	0 %100
19	IP-1A	Z	-0.16	-0.16	0 %100
20	IP-1B	Z	-0.16	-0.16	0 %100
21	IP-1C	Z	-0.16	-0.16	0 %100
22	IP-1D	Z	0	0	0 %100
23	IP-2A	Z	0	0	0 %100
24	IP-2B	Z	-0.16	-0.16	0 %100
25	IP-2C	Z	-0.16	-0.16	0 %100
26	IP-2D	Z	-0.16	-0.16	0 %100
27	IP-3A	Z	-0.16	-0.16	0 %100
28	IP-3B	Z	0	0	0 %100
29	IP-3C	Z	0	0	0 %100
30	IP-3D	Z	-0.16	-0.16	0 %100
31	INT-1A	Z	-0.11	-0.11	0 %100
32	INT-1B	Z	-0.11	-0.11	0 %100
33	INT-2A	Z	0	0	0 %100
34	INT-2B	Z	0	0	0 %100
35	INT-3A	Z	-0.11	-0.11	0 %100
36	INT-3B	Z	-0.11	-0.11	0 %100
37	MP-1	Z	-0.09	-0.09	0 %100
38	MP-2	Z	-0.09	-0.09	0 %100
39	MP-3	Z	-0.09	-0.09	0 %100
40	MP-4	Z	-0.09	-0.09	0 %100
41	MP-5	Z	-0.09	-0.09	0 %100
42	MP-6	Z	-0.09	-0.09	0 %100
43	MP-7	Z	-0.09	-0.09	0 %100
44	MP-8	Z	-0.09	-0.09	0 %100
45	MP-9	Z	-0.09	-0.09	0 %100
46	SRC-1B	Z	-0.18	-0.18	0 %100
47	SRC-2B	Z	-0.18	-0.18	0 %100
48	SRC-3B	Z	0	0	0 %100
49	SRC-1A	Z	-0.16	-0.16	0 %100
50	SRC-1C	Z	0	0	0 %100
51	SRC-2A	Z	0	0	0 %100
52	SRC-2C	Z	-0.16	-0.16	0 %100
53	SRC-3A	Z	-0.16	-0.16	0 %100
54	SRC-3C	Z	-0.16	-0.16	0 %100
55	SA-1	Z	-0.07	-0.07	0 %100
56	SA-2	Z	-0.16	-0.16	0 %100
57	SA-3	Z	-0.07	-0.07	0 %100
58	SR-1	Z	0	0	0 %100
59	SR-2	Z	-0.08	-0.08	0 %100
60	SR-3	Z	-0.08	-0.08	0 %100

Member Distributed Loads (BLC 7 : 120 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	.005	.005	0 %100
2	CP-2B	X	.01	.01	0 %100
3	CP-3B	X	.006	.006	0 %100
4	CP-1A	X	.009	.009	0 %100
5	CP-1C	X	.005	.005	0 %100
6	CP-2A	X	.005	.005	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
7	CP-2C	X	.005	.005	0 %100
8	CP-3A	X	.005	.005	0 %100
9	CP-3C	X	.009	.009	0 %100
10	FFTH	X	.003	.003	0 %100
11	SF2-TH	X	.004	.004	0 %100
12	SF3-TH	X	.002	.002	0 %100
13	GS-1	X	.002	.002	0 %100
14	GS-2	X	.004	.004	0 %100
15	GS-3	X	.004	.004	0 %100
16	GS-4	X	.002	.002	0 %100
17	GS-5	X	.002	.002	0 %100
18	GS-6	X	.002	.002	0 %100
19	IP-1A	X	.009	.009	0 %100
20	IP-1B	X	.005	.005	0 %100
21	IP-1C	X	.005	.005	0 %100
22	IP-1D	X	.005	.005	0 %100
23	IP-2A	X	.005	.005	0 %100
24	IP-2B	X	.009	.009	0 %100
25	IP-2C	X	.009	.009	0 %100
26	IP-2D	X	.005	.005	0 %100
27	IP-3A	X	.005	.005	0 %100
28	IP-3B	X	.005	.005	0 %100
29	IP-3C	X	.005	.005	0 %100
30	IP-3D	X	.009	.009	0 %100
31	INT-1A	X	.003	.003	0 %100
32	INT-1B	X	.003	.003	0 %100
33	INT-2A	X	.003	.003	0 %100
34	INT-2B	X	.003	.003	0 %100
35	INT-3A	X	.006	.006	0 %100
36	INT-3B	X	.006	.006	0 %100
37	MP-1	X	.004	.004	0 %100
38	MP-2	X	.004	.004	0 %100
39	MP-3	X	.004	.004	0 %100
40	MP-4	X	.004	.004	0 %100
41	MP-5	X	.004	.004	0 %100
42	MP-6	X	.004	.004	0 %100
43	MP-7	X	.004	.004	0 %100
44	MP-8	X	.004	.004	0 %100
45	MP-9	X	.004	.004	0 %100
46	SRC-1B	X	.005	.005	0 %100
47	SRC-2B	X	.01	.01	0 %100
48	SRC-3B	X	.005	.005	0 %100
49	SRC-1A	X	.009	.009	0 %100
50	SRC-1C	X	.005	.005	0 %100
51	SRC-2A	X	.005	.005	0 %100
52	SRC-2C	X	.005	.005	0 %100
53	SRC-3A	X	.005	.005	0 %100
54	SRC-3C	X	.009	.009	0 %100
55	SA-1	X	.007	.007	0 %100
56	SA-2	X	.005	.005	0 %100
57	SA-3	X	0	0	0 %100
58	SR-1	X	.002	.002	0 %100
59	SR-2	X	.004	.004	0 %100
60	SR-3	X	.002	.002	0 %100
61	CP-1B	Z	-.01	-.01	0 %100
62	CP-2B	Z	-.019	-.019	0 %100
63	CP-3B	Z	-.01	-.01	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
64	CP-1A	Z	-0.16	-0.16	0 %100
65	CP-1C	Z	-0.008	-0.008	0 %100
66	CP-2A	Z	-0.008	-0.008	0 %100
67	CP-2C	Z	-0.008	-0.008	0 %100
68	CP-3A	Z	-0.008	-0.008	0 %100
69	CP-3C	Z	-0.16	-0.16	0 %100
70	FFTH	Z	-0.004	-0.004	0 %100
71	SF2-TH	Z	-0.008	-0.008	0 %100
72	SF3-TH	Z	-0.004	-0.004	0 %100
73	GS-1	Z	-0.003	-0.003	0 %100
74	GS-2	Z	-0.007	-0.007	0 %100
75	GS-3	Z	-0.007	-0.007	0 %100
76	GS-4	Z	-0.004	-0.004	0 %100
77	GS-5	Z	-0.003	-0.003	0 %100
78	GS-6	Z	-0.003	-0.003	0 %100
79	IP-1A	Z	-0.16	-0.16	0 %100
80	IP-1B	Z	-0.008	-0.008	0 %100
81	IP-1C	Z	-0.008	-0.008	0 %100
82	IP-1D	Z	-0.008	-0.008	0 %100
83	IP-2A	Z	-0.008	-0.008	0 %100
84	IP-2B	Z	-0.16	-0.16	0 %100
85	IP-2C	Z	-0.16	-0.16	0 %100
86	IP-2D	Z	-0.008	-0.008	0 %100
87	IP-3A	Z	-0.008	-0.008	0 %100
88	IP-3B	Z	-0.008	-0.008	0 %100
89	IP-3C	Z	-0.008	-0.008	0 %100
90	IP-3D	Z	-0.16	-0.16	0 %100
91	INT-1A	Z	-0.005	-0.005	0 %100
92	INT-1B	Z	-0.005	-0.005	0 %100
93	INT-2A	Z	-0.006	-0.006	0 %100
94	INT-2B	Z	-0.006	-0.006	0 %100
95	INT-3A	Z	-0.11	-0.11	0 %100
96	INT-3B	Z	-0.11	-0.11	0 %100
97	MP-1	Z	-0.008	-0.008	0 %100
98	MP-2	Z	-0.008	-0.008	0 %100
99	MP-3	Z	-0.008	-0.008	0 %100
100	MP-4	Z	-0.008	-0.008	0 %100
101	MP-5	Z	-0.008	-0.008	0 %100
102	MP-6	Z	-0.008	-0.008	0 %100
103	MP-7	Z	-0.008	-0.008	0 %100
104	MP-8	Z	-0.008	-0.008	0 %100
105	MP-9	Z	-0.008	-0.008	0 %100
106	SRC-1B	Z	-0.009	-0.009	0 %100
107	SRC-2B	Z	-0.18	-0.18	0 %100
108	SRC-3B	Z	-0.009	-0.009	0 %100
109	SRC-1A	Z	-0.16	-0.16	0 %100
110	SRC-1C	Z	-0.008	-0.008	0 %100
111	SRC-2A	Z	-0.008	-0.008	0 %100
112	SRC-2C	Z	-0.008	-0.008	0 %100
113	SRC-3A	Z	-0.008	-0.008	0 %100
114	SRC-3C	Z	-0.16	-0.16	0 %100
115	SA-1	Z	-0.1	-0.1	0 %100
116	SA-2	Z	-0.12	-0.12	0 %100
117	SA-3	Z	0	0	0 %100
118	SR-1	Z	-0.004	-0.004	0 %100
119	SR-2	Z	-0.008	-0.008	0 %100
120	SR-3	Z	-0.004	-0.004	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 8 : 135 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	.004	.004	0 %100
2	CP-2B	X	.014	.014	0 %100
3	CP-3B	X	.011	.011	0 %100
4	CP-1A	X	.013	.013	0 %100
5	CP-1C	X	.009	.009	0 %100
6	CP-2A	X	.009	.009	0 %100
7	CP-2C	X	.003	.003	0 %100
8	CP-3A	X	.003	.003	0 %100
9	CP-3C	X	.013	.013	0 %100
10	FFTH	X	.005	.005	0 %100
11	SF2-TH	X	.005	.005	0 %100
12	SF3-TH	X	.001	.001	0 %100
13	GS-1	X	.004	.004	0 %100
14	GS-2	X	.005	.005	0 %100
15	GS-3	X	.005	.005	0 %100
16	GS-4	X	.001	.001	0 %100
17	GS-5	X	.001	.001	0 %100
18	GS-6	X	.004	.004	0 %100
19	IP-1A	X	.013	.013	0 %100
20	IP-1B	X	.003	.003	0 %100
21	IP-1C	X	.003	.003	0 %100
22	IP-1D	X	.009	.009	0 %100
23	IP-2A	X	.009	.009	0 %100
24	IP-2B	X	.013	.013	0 %100
25	IP-2C	X	.013	.013	0 %100
26	IP-2D	X	.003	.003	0 %100
27	IP-3A	X	.003	.003	0 %100
28	IP-3B	X	.009	.009	0 %100
29	IP-3C	X	.009	.009	0 %100
30	IP-3D	X	.013	.013	0 %100
31	INT-1A	X	.002	.002	0 %100
32	INT-1B	X	.002	.002	0 %100
33	INT-2A	X	.006	.006	0 %100
34	INT-2B	X	.006	.006	0 %100
35	INT-3A	X	.008	.008	0 %100
36	INT-3B	X	.008	.008	0 %100
37	MP-1	X	.006	.006	0 %100
38	MP-2	X	.006	.006	0 %100
39	MP-3	X	.006	.006	0 %100
40	MP-4	X	.006	.006	0 %100
41	MP-5	X	.006	.006	0 %100
42	MP-6	X	.006	.006	0 %100
43	MP-7	X	.006	.006	0 %100
44	MP-8	X	.006	.006	0 %100
45	MP-9	X	.006	.006	0 %100
46	SRC-1B	X	.003	.003	0 %100
47	SRC-2B	X	.013	.013	0 %100
48	SRC-3B	X	.011	.011	0 %100
49	SRC-1A	X	.013	.013	0 %100
50	SRC-1C	X	.009	.009	0 %100
51	SRC-2A	X	.009	.009	0 %100
52	SRC-2C	X	.003	.003	0 %100
53	SRC-3A	X	.003	.003	0 %100
54	SRC-3C	X	.013	.013	0 %100
55	SA-1	X	.01	.01	0 %100
56	SA-2	X	.006	.006	0 %100
57	SA-3	X	.003	.003	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location[ft.%]
58	SR-1	X	.004	.004	0 %100
59	SR-2	X	.006	.006	0 %100
60	SR-3	X	.002	.002	0 %100
61	CP-1B	Z	-.004	-.004	0 %100
62	CP-2B	Z	-.015	-.015	0 %100
63	CP-3B	Z	-.011	-.011	0 %100
64	CP-1A	Z	-.013	-.013	0 %100
65	CP-1C	Z	-.009	-.009	0 %100
66	CP-2A	Z	-.009	-.009	0 %100
67	CP-2C	Z	-.003	-.003	0 %100
68	CP-3A	Z	-.003	-.003	0 %100
69	CP-3C	Z	-.013	-.013	0 %100
70	FFTH	Z	-.005	-.005	0 %100
71	SF2-TH	Z	-.007	-.007	0 %100
72	SF3-TH	Z	-.002	-.002	0 %100
73	GS-1	Z	-.003	-.003	0 %100
74	GS-2	Z	-.006	-.006	0 %100
75	GS-3	Z	-.006	-.006	0 %100
76	GS-4	Z	-.002	-.002	0 %100
77	GS-5	Z	-.001	-.001	0 %100
78	GS-6	Z	-.003	-.003	0 %100
79	IP-1A	Z	-.013	-.013	0 %100
80	IP-1B	Z	-.003	-.003	0 %100
81	IP-1C	Z	-.003	-.003	0 %100
82	IP-1D	Z	-.009	-.009	0 %100
83	IP-2A	Z	-.009	-.009	0 %100
84	IP-2B	Z	-.013	-.013	0 %100
85	IP-2C	Z	-.013	-.013	0 %100
86	IP-2D	Z	-.003	-.003	0 %100
87	IP-3A	Z	-.003	-.003	0 %100
88	IP-3B	Z	-.009	-.009	0 %100
89	IP-3C	Z	-.009	-.009	0 %100
90	IP-3D	Z	-.013	-.013	0 %100
91	INT-1A	Z	-.002	-.002	0 %100
92	INT-1B	Z	-.002	-.002	0 %100
93	INT-2A	Z	-.006	-.006	0 %100
94	INT-2B	Z	-.006	-.006	0 %100
95	INT-3A	Z	-.008	-.008	0 %100
96	INT-3B	Z	-.008	-.008	0 %100
97	MP-1	Z	-.006	-.006	0 %100
98	MP-2	Z	-.006	-.006	0 %100
99	MP-3	Z	-.006	-.006	0 %100
100	MP-4	Z	-.006	-.006	0 %100
101	MP-5	Z	-.006	-.006	0 %100
102	MP-6	Z	-.006	-.006	0 %100
103	MP-7	Z	-.006	-.006	0 %100
104	MP-8	Z	-.006	-.006	0 %100
105	MP-9	Z	-.006	-.006	0 %100
106	SRC-1B	Z	-.004	-.004	0 %100
107	SRC-2B	Z	-.014	-.014	0 %100
108	SRC-3B	Z	-.011	-.011	0 %100
109	SRC-1A	Z	-.013	-.013	0 %100
110	SRC-1C	Z	-.009	-.009	0 %100
111	SRC-2A	Z	-.009	-.009	0 %100
112	SRC-2C	Z	-.003	-.003	0 %100
113	SRC-3A	Z	-.003	-.003	0 %100
114	SRC-3C	Z	-.013	-.013	0 %100



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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location[ft.%]
115	SA-1	Z	-.009	-.009	0 %100
116	SA-2	Z	-.008	-.008	0 %100
117	SA-3	Z	-.003	-.003	0 %100
118	SR-1	Z	-.004	-.004	0 %100
119	SR-2	Z	-.006	-.006	0 %100
120	SR-3	Z	-.002	-.002	0 %100

Member Distributed Loads (BLC 9 : 150 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location[ft.%]
1	CP-1B	X	0	0	0 %100
2	CP-2B	X	.015	.015	0 %100
3	CP-3B	X	.017	.017	0 %100
4	CP-1A	X	.014	.014	0 %100
5	CP-1C	X	.014	.014	0 %100
6	CP-2A	X	.014	.014	0 %100
7	CP-2C	X	0	0	0 %100
8	CP-3A	X	0	0	0 %100
9	CP-3C	X	.014	.014	0 %100
10	FFTH	X	.008	.008	0 %100
11	SF2-TH	X	.005	.005	0 %100
12	SF3-TH	X	0	0	0 %100
13	GS-1	X	.006	.006	0 %100
14	GS-2	X	.006	.006	0 %100
15	GS-3	X	.005	.005	0 %100
16	GS-4	X	.000169	.000169	0 %100
17	GS-5	X	.000172	.000172	0 %100
18	GS-6	X	.006	.006	0 %100
19	IP-1A	X	.014	.014	0 %100
20	IP-1B	X	0	0	0 %100
21	IP-1C	X	0	0	0 %100
22	IP-1D	X	.014	.014	0 %100
23	IP-2A	X	.014	.014	0 %100
24	IP-2B	X	.014	.014	0 %100
25	IP-2C	X	.014	.014	0 %100
26	IP-2D	X	0	0	0 %100
27	IP-3A	X	0	0	0 %100
28	IP-3B	X	.014	.014	0 %100
29	IP-3C	X	.014	.014	0 %100
30	IP-3D	X	.014	.014	0 %100
31	INT-1A	X	0	0	0 %100
32	INT-1B	X	0	0	0 %100
33	INT-2A	X	.01	.01	0 %100
34	INT-2B	X	.01	.01	0 %100
35	INT-3A	X	.008	.008	0 %100
36	INT-3B	X	.008	.008	0 %100
37	MP-1	X	.008	.008	0 %100
38	MP-2	X	.008	.008	0 %100
39	MP-3	X	.008	.008	0 %100
40	MP-4	X	.008	.008	0 %100
41	MP-5	X	.008	.008	0 %100
42	MP-6	X	.008	.008	0 %100
43	MP-7	X	.008	.008	0 %100
44	MP-8	X	.008	.008	0 %100
45	MP-9	X	.008	.008	0 %100
46	SRC-1B	X	0	0	0 %100
47	SRC-2B	X	.014	.014	0 %100



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Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
48	SRC-3B	X	.016	.016	0 %100
49	SRC-1A	X	.014	.014	0 %100
50	SRC-1C	X	.014	.014	0 %100
51	SRC-2A	X	.014	.014	0 %100
52	SRC-2C	X	0	0	0 %100
53	SRC-3A	X	0	0	0 %100
54	SRC-3C	X	.014	.014	0 %100
55	SA-1	X	.013	.013	0 %100
56	SA-2	X	.005	.005	0 %100
57	SA-3	X	.007	.007	0 %100
58	SR-1	X	.007	.007	0 %100
59	SR-2	X	.006	.006	0 %100
60	SR-3	X	0	0	0 %100
61	CP-1B	Z	0	0	0 %100
62	CP-2B	Z	-.01	-.01	0 %100
63	CP-3B	Z	-.01	-.01	0 %100
64	CP-1A	Z	-.008	-.008	0 %100
65	CP-1C	Z	-.008	-.008	0 %100
66	CP-2A	Z	-.008	-.008	0 %100
67	CP-2C	Z	0	0	0 %100
68	CP-3A	Z	0	0	0 %100
69	CP-3C	Z	-.008	-.008	0 %100
70	FFTH	Z	-.004	-.004	0 %100
71	SF2-TH	Z	-.004	-.004	0 %100
72	SF3-TH	Z	0	0	0 %100
73	GS-1	Z	-.003	-.003	0 %100
74	GS-2	Z	-.004	-.004	0 %100
75	GS-3	Z	-.003	-.003	0 %100
76	GS-4	Z	-.000111	-.000111	0 %100
77	GS-5	Z	-.00011	-.00011	0 %100
78	GS-6	Z	-.003	-.003	0 %100
79	IP-1A	Z	-.008	-.008	0 %100
80	IP-1B	Z	0	0	0 %100
81	IP-1C	Z	0	0	0 %100
82	IP-1D	Z	-.008	-.008	0 %100
83	IP-2A	Z	-.008	-.008	0 %100
84	IP-2B	Z	-.008	-.008	0 %100
85	IP-2C	Z	-.008	-.008	0 %100
86	IP-2D	Z	0	0	0 %100
87	IP-3A	Z	0	0	0 %100
88	IP-3B	Z	-.008	-.008	0 %100
89	IP-3C	Z	-.008	-.008	0 %100
90	IP-3D	Z	-.008	-.008	0 %100
91	INT-1A	Z	0	0	0 %100
92	INT-1B	Z	0	0	0 %100
93	INT-2A	Z	-.006	-.006	0 %100
94	INT-2B	Z	-.006	-.006	0 %100
95	INT-3A	Z	-.005	-.005	0 %100
96	INT-3B	Z	-.005	-.005	0 %100
97	MP-1	Z	-.004	-.004	0 %100
98	MP-2	Z	-.004	-.004	0 %100
99	MP-3	Z	-.004	-.004	0 %100
100	MP-4	Z	-.004	-.004	0 %100
101	MP-5	Z	-.004	-.004	0 %100
102	MP-6	Z	-.004	-.004	0 %100
103	MP-7	Z	-.004	-.004	0 %100
104	MP-8	Z	-.004	-.004	0 %100



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Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
105	MP-9	Z	-.004	-.004	0 %100
106	SRC-1B	Z	0	0	0 %100
107	SRC-2B	Z	-.009	-.009	0 %100
108	SRC-3B	Z	-.009	-.009	0 %100
109	SRC-1A	Z	-.008	-.008	0 %100
110	SRC-1C	Z	-.008	-.008	0 %100
111	SRC-2A	Z	-.008	-.008	0 %100
112	SRC-2C	Z	0	0	0 %100
113	SRC-3A	Z	0	0	0 %100
114	SRC-3C	Z	-.008	-.008	0 %100
115	SA-1	Z	-.007	-.007	0 %100
116	SA-2	Z	-.004	-.004	0 %100
117	SA-3	Z	-.003	-.003	0 %100
118	SR-1	Z	-.004	-.004	0 %100
119	SR-2	Z	-.004	-.004	0 %100
120	SR-3	Z	0	0	0 %100

Member Distributed Loads (BLC 10 : 180 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	.01	.01	0 %100
2	CP-2B	X	.01	.01	0 %100
3	CP-3B	X	.023	.023	0 %100
4	CP-1A	X	.009	.009	0 %100
5	CP-1C	X	.019	.019	0 %100
6	CP-2A	X	.019	.019	0 %100
7	CP-2C	X	.009	.009	0 %100
8	CP-3A	X	.009	.009	0 %100
9	CP-3C	X	.009	.009	0 %100
10	FFTH	X	.01	.01	0 %100
11	SF2-TH	X	.004	.004	0 %100
12	SF3-TH	X	.004	.004	0 %100
13	GS-1	X	.008	.008	0 %100
14	GS-2	X	.004	.004	0 %100
15	GS-3	X	.003	.003	0 %100
16	GS-4	X	.003	.003	0 %100
17	GS-5	X	.004	.004	0 %100
18	GS-6	X	.008	.008	0 %100
19	IP-1A	X	.009	.009	0 %100
20	IP-1B	X	.009	.009	0 %100
21	IP-1C	X	.009	.009	0 %100
22	IP-1D	X	.019	.019	0 %100
23	IP-2A	X	.019	.019	0 %100
24	IP-2B	X	.009	.009	0 %100
25	IP-2C	X	.009	.009	0 %100
26	IP-2D	X	.009	.009	0 %100
27	IP-3A	X	.009	.009	0 %100
28	IP-3B	X	.019	.019	0 %100
29	IP-3C	X	.019	.019	0 %100
30	IP-3D	X	.009	.009	0 %100
31	INT-1A	X	.006	.006	0 %100
32	INT-1B	X	.006	.006	0 %100
33	INT-2A	X	.013	.013	0 %100
34	INT-2B	X	.013	.013	0 %100
35	INT-3A	X	.006	.006	0 %100
36	INT-3B	X	.006	.006	0 %100
37	MP-1	X	.009	.009	0 %100



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Member Distributed Loads (BLC 10 : 180 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
38	MP-2	X	.009	.009	0	%100
39	MP-3	X	.009	.009	0	%100
40	MP-4	X	.009	.009	0	%100
41	MP-5	X	.009	.009	0	%100
42	MP-6	X	.009	.009	0	%100
43	MP-7	X	.009	.009	0	%100
44	MP-8	X	.009	.009	0	%100
45	MP-9	X	.009	.009	0	%100
46	SRC-1B	X	.01	.01	0	%100
47	SRC-2B	X	.01	.01	0	%100
48	SRC-3B	X	.021	.021	0	%100
49	SRC-1A	X	.009	.009	0	%100
50	SRC-1C	X	.019	.019	0	%100
51	SRC-2A	X	.019	.019	0	%100
52	SRC-2C	X	.009	.009	0	%100
53	SRC-3A	X	.009	.009	0	%100
54	SRC-3C	X	.009	.009	0	%100
55	SA-1	X	.013	.013	0	%100
56	SA-2	X	0	0	0	%100
57	SA-3	X	.013	.013	0	%100
58	SR-1	X	.009	.009	0	%100
59	SR-2	X	.004	.004	0	%100
60	SR-3	X	.004	.004	0	%100

Member Distributed Loads (BLC 11 : 210 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
1	CP-1B	X	.015	.015	0	%100
2	CP-2B	X	0	0	0	%100
3	CP-3B	X	.017	.017	0	%100
4	CP-1A	X	0	0	0	%100
5	CP-1C	X	.014	.014	0	%100
6	CP-2A	X	.014	.014	0	%100
7	CP-2C	X	.014	.014	0	%100
8	CP-3A	X	.014	.014	0	%100
9	CP-3C	X	0	0	0	%100
10	FFTH	X	.008	.008	0	%100
11	SF2-TH	X	0	0	0	%100
12	SF3-TH	X	.005	.005	0	%100
13	GS-1	X	.006	.006	0	%100
14	GS-2	X	.000172	.000172	0	%100
15	GS-3	X	.000169	.000169	0	%100
16	GS-4	X	.005	.005	0	%100
17	GS-5	X	.006	.006	0	%100
18	GS-6	X	.006	.006	0	%100
19	IP-1A	X	0	0	0	%100
20	IP-1B	X	.014	.014	0	%100
21	IP-1C	X	.014	.014	0	%100
22	IP-1D	X	.014	.014	0	%100
23	IP-2A	X	.014	.014	0	%100
24	IP-2B	X	0	0	0	%100
25	IP-2C	X	0	0	0	%100
26	IP-2D	X	.014	.014	0	%100
27	IP-3A	X	.014	.014	0	%100
28	IP-3B	X	.014	.014	0	%100
29	IP-3C	X	.014	.014	0	%100
30	IP-3D	X	0	0	0	%100



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Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
31	INT-1A	X	.008	.008	0	%100
32	INT-1B	X	.008	.008	0	%100
33	INT-2A	X	.01	.01	0	%100
34	INT-2B	X	.01	.01	0	%100
35	INT-3A	X	0	0	0	%100
36	INT-3B	X	0	0	0	%100
37	MP-1	X	.008	.008	0	%100
38	MP-2	X	.008	.008	0	%100
39	MP-3	X	.008	.008	0	%100
40	MP-4	X	.008	.008	0	%100
41	MP-5	X	.008	.008	0	%100
42	MP-6	X	.008	.008	0	%100
43	MP-7	X	.008	.008	0	%100
44	MP-8	X	.008	.008	0	%100
45	MP-9	X	.008	.008	0	%100
46	SRC-1B	X	.014	.014	0	%100
47	SRC-2B	X	0	0	0	%100
48	SRC-3B	X	.016	.016	0	%100
49	SRC-1A	X	0	0	0	%100
50	SRC-1C	X	.014	.014	0	%100
51	SRC-2A	X	.014	.014	0	%100
52	SRC-2C	X	.014	.014	0	%100
53	SRC-3A	X	.014	.014	0	%100
54	SRC-3C	X	0	0	0	%100
55	SA-1	X	.007	.007	0	%100
56	SA-2	X	.005	.005	0	%100
57	SA-3	X	.013	.013	0	%100
58	SR-1	X	.007	.007	0	%100
59	SR-2	X	0	0	0	%100
60	SR-3	X	.006	.006	0	%100
61	CP-1B	Z	.01	.01	0	%100
62	CP-2B	Z	0	0	0	%100
63	CP-3B	Z	.01	.01	0	%100
64	CP-1A	Z	0	0	0	%100
65	CP-1C	Z	.008	.008	0	%100
66	CP-2A	Z	.008	.008	0	%100
67	CP-2C	Z	.008	.008	0	%100
68	CP-3A	Z	.008	.008	0	%100
69	CP-3C	Z	0	0	0	%100
70	FFTH	Z	.004	.004	0	%100
71	SF2-TH	Z	0	0	0	%100
72	SF3-TH	Z	.004	.004	0	%100
73	GS-1	Z	.003	.003	0	%100
74	GS-2	Z	.00011	.00011	0	%100
75	GS-3	Z	.000111	.000111	0	%100
76	GS-4	Z	.003	.003	0	%100
77	GS-5	Z	.004	.004	0	%100
78	GS-6	Z	.003	.003	0	%100
79	IP-1A	Z	0	0	0	%100
80	IP-1B	Z	.008	.008	0	%100
81	IP-1C	Z	.008	.008	0	%100
82	IP-1D	Z	.008	.008	0	%100
83	IP-2A	Z	.008	.008	0	%100
84	IP-2B	Z	0	0	0	%100
85	IP-2C	Z	0	0	0	%100
86	IP-2D	Z	.008	.008	0	%100
87	IP-3A	Z	.008	.008	0	%100



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Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
88	IP-3B	Z	.008	.008	0	%100
89	IP-3C	Z	.008	.008	0	%100
90	IP-3D	Z	0	0	0	%100
91	INT-1A	Z	.005	.005	0	%100
92	INT-1B	Z	.005	.005	0	%100
93	INT-2A	Z	.006	.006	0	%100
94	INT-2B	Z	.006	.006	0	%100
95	INT-3A	Z	0	0	0	%100
96	INT-3B	Z	0	0	0	%100
97	MP-1	Z	.004	.004	0	%100
98	MP-2	Z	.004	.004	0	%100
99	MP-3	Z	.004	.004	0	%100
100	MP-4	Z	.004	.004	0	%100
101	MP-5	Z	.004	.004	0	%100
102	MP-6	Z	.004	.004	0	%100
103	MP-7	Z	.004	.004	0	%100
104	MP-8	Z	.004	.004	0	%100
105	MP-9	Z	.004	.004	0	%100
106	SRC-1B	Z	.009	.009	0	%100
107	SRC-2B	Z	0	0	0	%100
108	SRC-3B	Z	.009	.009	0	%100
109	SRC-1A	Z	0	0	0	%100
110	SRC-1C	Z	.008	.008	0	%100
111	SRC-2A	Z	.008	.008	0	%100
112	SRC-2C	Z	.008	.008	0	%100
113	SRC-3A	Z	.008	.008	0	%100
114	SRC-3C	Z	0	0	0	%100
115	SA-1	Z	.003	.003	0	%100
116	SA-2	Z	.004	.004	0	%100
117	SA-3	Z	.007	.007	0	%100
118	SR-1	Z	.004	.004	0	%100
119	SR-2	Z	0	0	0	%100
120	SR-3	Z	.004	.004	0	%100

Member Distributed Loads (BLC 12 : 225 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
1	CP-1B	X	.014	.014	0	%100
2	CP-2B	X	.004	.004	0	%100
3	CP-3B	X	.011	.011	0	%100
4	CP-1A	X	.003	.003	0	%100
5	CP-1C	X	.009	.009	0	%100
6	CP-2A	X	.009	.009	0	%100
7	CP-2C	X	.013	.013	0	%100
8	CP-3A	X	.013	.013	0	%100
9	CP-3C	X	.003	.003	0	%100
10	FFTH	X	.005	.005	0	%100
11	SF2-TH	X	.001	.001	0	%100
12	SF3-TH	X	.005	.005	0	%100
13	GS-1	X	.004	.004	0	%100
14	GS-2	X	.001	.001	0	%100
15	GS-3	X	.001	.001	0	%100
16	GS-4	X	.005	.005	0	%100
17	GS-5	X	.005	.005	0	%100
18	GS-6	X	.004	.004	0	%100
19	IP-1A	X	.003	.003	0	%100
20	IP-1B	X	.013	.013	0	%100



Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
21	IP-1C	X	.013	.013	0	%100
22	IP-1D	X	.009	.009	0	%100
23	IP-2A	X	.009	.009	0	%100
24	IP-2B	X	.003	.003	0	%100
25	IP-2C	X	.003	.003	0	%100
26	IP-2D	X	.013	.013	0	%100
27	IP-3A	X	.013	.013	0	%100
28	IP-3B	X	.009	.009	0	%100
29	IP-3C	X	.009	.009	0	%100
30	IP-3D	X	.003	.003	0	%100
31	INT-1A	X	.008	.008	0	%100
32	INT-1B	X	.008	.008	0	%100
33	INT-2A	X	.006	.006	0	%100
34	INT-2B	X	.006	.006	0	%100
35	INT-3A	X	.002	.002	0	%100
36	INT-3B	X	.002	.002	0	%100
37	MP-1	X	.006	.006	0	%100
38	MP-2	X	.006	.006	0	%100
39	MP-3	X	.006	.006	0	%100
40	MP-4	X	.006	.006	0	%100
41	MP-5	X	.006	.006	0	%100
42	MP-6	X	.006	.006	0	%100
43	MP-7	X	.006	.006	0	%100
44	MP-8	X	.006	.006	0	%100
45	MP-9	X	.006	.006	0	%100
46	SRC-1B	X	.013	.013	0	%100
47	SRC-2B	X	.003	.003	0	%100
48	SRC-3B	X	.011	.011	0	%100
49	SRC-1A	X	.003	.003	0	%100
50	SRC-1C	X	.009	.009	0	%100
51	SRC-2A	X	.009	.009	0	%100
52	SRC-2C	X	.013	.013	0	%100
53	SRC-3A	X	.013	.013	0	%100
54	SRC-3C	X	.003	.003	0	%100
55	SA-1	X	.003	.003	0	%100
56	SA-2	X	.006	.006	0	%100
57	SA-3	X	.01	.01	0	%100
58	SR-1	X	.004	.004	0	%100
59	SR-2	X	.002	.002	0	%100
60	SR-3	X	.006	.006	0	%100
61	CP-1B	Z	.015	.015	0	%100
62	CP-2B	Z	.004	.004	0	%100
63	CP-3B	Z	.011	.011	0	%100
64	CP-1A	Z	.003	.003	0	%100
65	CP-1C	Z	.009	.009	0	%100
66	CP-2A	Z	.009	.009	0	%100
67	CP-2C	Z	.013	.013	0	%100
68	CP-3A	Z	.013	.013	0	%100
69	CP-3C	Z	.003	.003	0	%100
70	FFTH	Z	.005	.005	0	%100
71	SF2-TH	Z	.002	.002	0	%100
72	SF3-TH	Z	.007	.007	0	%100
73	GS-1	Z	.003	.003	0	%100
74	GS-2	Z	.001	.001	0	%100
75	GS-3	Z	.002	.002	0	%100
76	GS-4	Z	.006	.006	0	%100
77	GS-5	Z	.006	.006	0	%100



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Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
78	GS-6	Z	.003	.003	0 %100
79	IP-1A	Z	.003	.003	0 %100
80	IP-1B	Z	.013	.013	0 %100
81	IP-1C	Z	.013	.013	0 %100
82	IP-1D	Z	.009	.009	0 %100
83	IP-2A	Z	.009	.009	0 %100
84	IP-2B	Z	.003	.003	0 %100
85	IP-2C	Z	.003	.003	0 %100
86	IP-2D	Z	.013	.013	0 %100
87	IP-3A	Z	.013	.013	0 %100
88	IP-3B	Z	.009	.009	0 %100
89	IP-3C	Z	.009	.009	0 %100
90	IP-3D	Z	.003	.003	0 %100
91	INT-1A	Z	.008	.008	0 %100
92	INT-1B	Z	.008	.008	0 %100
93	INT-2A	Z	.006	.006	0 %100
94	INT-2B	Z	.006	.006	0 %100
95	INT-3A	Z	.002	.002	0 %100
96	INT-3B	Z	.002	.002	0 %100
97	MP-1	Z	.006	.006	0 %100
98	MP-2	Z	.006	.006	0 %100
99	MP-3	Z	.006	.006	0 %100
100	MP-4	Z	.006	.006	0 %100
101	MP-5	Z	.006	.006	0 %100
102	MP-6	Z	.006	.006	0 %100
103	MP-7	Z	.006	.006	0 %100
104	MP-8	Z	.006	.006	0 %100
105	MP-9	Z	.006	.006	0 %100
106	SRC-1B	Z	.014	.014	0 %100
107	SRC-2B	Z	.004	.004	0 %100
108	SRC-3B	Z	.011	.011	0 %100
109	SRC-1A	Z	.003	.003	0 %100
110	SRC-1C	Z	.009	.009	0 %100
111	SRC-2A	Z	.009	.009	0 %100
112	SRC-2C	Z	.013	.013	0 %100
113	SRC-3A	Z	.013	.013	0 %100
114	SRC-3C	Z	.003	.003	0 %100
115	SA-1	Z	.003	.003	0 %100
116	SA-2	Z	.008	.008	0 %100
117	SA-3	Z	.009	.009	0 %100
118	SR-1	Z	.004	.004	0 %100
119	SR-2	Z	.002	.002	0 %100
120	SR-3	Z	.006	.006	0 %100

Member Distributed Loads (BLC 13 : 240 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	.01	.01	0 %100
2	CP-2B	X	.005	.005	0 %100
3	CP-3B	X	.006	.006	0 %100
4	CP-1A	X	.005	.005	0 %100
5	CP-1C	X	.005	.005	0 %100
6	CP-2A	X	.005	.005	0 %100
7	CP-2C	X	.009	.009	0 %100
8	CP-3A	X	.009	.009	0 %100
9	CP-3C	X	.005	.005	0 %100
10	FFTH	X	.003	.003	0 %100



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Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
11	SF2-TH	X	.002	.002	0 %100
12	SF3-TH	X	.004	.004	0 %100
13	GS-1	X	.002	.002	0 %100
14	GS-2	X	.002	.002	0 %100
15	GS-3	X	.002	.002	0 %100
16	GS-4	X	.004	.004	0 %100
17	GS-5	X	.004	.004	0 %100
18	GS-6	X	.002	.002	0 %100
19	IP-1A	X	.005	.005	0 %100
20	IP-1B	X	.009	.009	0 %100
21	IP-1C	X	.009	.009	0 %100
22	IP-1D	X	.005	.005	0 %100
23	IP-2A	X	.005	.005	0 %100
24	IP-2B	X	.005	.005	0 %100
25	IP-2C	X	.005	.005	0 %100
26	IP-2D	X	.009	.009	0 %100
27	IP-3A	X	.009	.009	0 %100
28	IP-3B	X	.005	.005	0 %100
29	IP-3C	X	.005	.005	0 %100
30	IP-3D	X	.005	.005	0 %100
31	INT-1A	X	.006	.006	0 %100
32	INT-1B	X	.006	.006	0 %100
33	INT-2A	X	.003	.003	0 %100
34	INT-2B	X	.003	.003	0 %100
35	INT-3A	X	.003	.003	0 %100
36	INT-3B	X	.003	.003	0 %100
37	MP-1	X	.004	.004	0 %100
38	MP-2	X	.004	.004	0 %100
39	MP-3	X	.004	.004	0 %100
40	MP-4	X	.004	.004	0 %100
41	MP-5	X	.004	.004	0 %100
42	MP-6	X	.004	.004	0 %100
43	MP-7	X	.004	.004	0 %100
44	MP-8	X	.004	.004	0 %100
45	MP-9	X	.004	.004	0 %100
46	SRC-1B	X	.01	.01	0 %100
47	SRC-2B	X	.005	.005	0 %100
48	SRC-3B	X	.005	.005	0 %100
49	SRC-1A	X	.005	.005	0 %100
50	SRC-1C	X	.005	.005	0 %100
51	SRC-2A	X	.005	.005	0 %100
52	SRC-2C	X	.009	.009	0 %100
53	SRC-3A	X	.009	.009	0 %100
54	SRC-3C	X	.005	.005	0 %100
55	SA-1	X	0	0	0 %100
56	SA-2	X	.005	.005	0 %100
57	SA-3	X	.007	.007	0 %100
58	SR-1	X	.002	.002	0 %100
59	SR-2	X	.002	.002	0 %100
60	SR-3	X	.004	.004	0 %100
61	CP-1B	Z	.019	.019	0 %100
62	CP-2B	Z	.01	.01	0 %100
63	CP-3B	Z	.01	.01	0 %100
64	CP-1A	Z	.008	.008	0 %100
65	CP-1C	Z	.008	.008	0 %100
66	CP-2A	Z	.008	.008	0 %100
67	CP-2C	Z	.016	.016	0 %100



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Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
68	CP-3A	Z	.016	.016	0 %100
69	CP-3C	Z	.008	.008	0 %100
70	FFTH	Z	.004	.004	0 %100
71	SF2-TH	Z	.004	.004	0 %100
72	SF3-TH	Z	.008	.008	0 %100
73	GS-1	Z	.003	.003	0 %100
74	GS-2	Z	.003	.003	0 %100
75	GS-3	Z	.004	.004	0 %100
76	GS-4	Z	.007	.007	0 %100
77	GS-5	Z	.007	.007	0 %100
78	GS-6	Z	.003	.003	0 %100
79	IP-1A	Z	.008	.008	0 %100
80	IP-1B	Z	.016	.016	0 %100
81	IP-1C	Z	.016	.016	0 %100
82	IP-1D	Z	.008	.008	0 %100
83	IP-2A	Z	.008	.008	0 %100
84	IP-2B	Z	.008	.008	0 %100
85	IP-2C	Z	.008	.008	0 %100
86	IP-2D	Z	.016	.016	0 %100
87	IP-3A	Z	.016	.016	0 %100
88	IP-3B	Z	.008	.008	0 %100
89	IP-3C	Z	.008	.008	0 %100
90	IP-3D	Z	.008	.008	0 %100
91	INT-1A	Z	.011	.011	0 %100
92	INT-1B	Z	.011	.011	0 %100
93	INT-2A	Z	.006	.006	0 %100
94	INT-2B	Z	.006	.006	0 %100
95	INT-3A	Z	.005	.005	0 %100
96	INT-3B	Z	.005	.005	0 %100
97	MP-1	Z	.008	.008	0 %100
98	MP-2	Z	.008	.008	0 %100
99	MP-3	Z	.008	.008	0 %100
100	MP-4	Z	.008	.008	0 %100
101	MP-5	Z	.008	.008	0 %100
102	MP-6	Z	.008	.008	0 %100
103	MP-7	Z	.008	.008	0 %100
104	MP-8	Z	.008	.008	0 %100
105	MP-9	Z	.008	.008	0 %100
106	SRC-1B	Z	.018	.018	0 %100
107	SRC-2B	Z	.009	.009	0 %100
108	SRC-3B	Z	.009	.009	0 %100
109	SRC-1A	Z	.008	.008	0 %100
110	SRC-1C	Z	.008	.008	0 %100
111	SRC-2A	Z	.008	.008	0 %100
112	SRC-2C	Z	.016	.016	0 %100
113	SRC-3A	Z	.016	.016	0 %100
114	SRC-3C	Z	.008	.008	0 %100
115	SA-1	Z	0	0	0 %100
116	SA-2	Z	.012	.012	0 %100
117	SA-3	Z	.01	.01	0 %100
118	SR-1	Z	.004	.004	0 %100
119	SR-2	Z	.004	.004	0 %100
120	SR-3	Z	.008	.008	0 %100

Member Distributed Loads (BLC 14 : 270 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
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Member Distributed Loads (BLC 14 : 270 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	Z	.019	.019	0 %100
2	CP-2B	Z	.019	.019	0 %100
3	CP-3B	Z	0	0	0 %100
4	CP-1A	Z	.016	.016	0 %100
5	CP-1C	Z	0	0	0 %100
6	CP-2A	Z	0	0	0 %100
7	CP-2C	Z	.016	.016	0 %100
8	CP-3A	Z	.016	.016	0 %100
9	CP-3C	Z	.016	.016	0 %100
10	FFTH	Z	0	0	0 %100
11	SF2-TH	Z	.008	.008	0 %100
12	SF3-TH	Z	.008	.008	0 %100
13	GS-1	Z	.000169	.000169	0 %100
14	GS-2	Z	.007	.007	0 %100
15	GS-3	Z	.007	.007	0 %100
16	GS-4	Z	.007	.007	0 %100
17	GS-5	Z	.007	.007	0 %100
18	GS-6	Z	.000169	.000169	0 %100
19	IP-1A	Z	.016	.016	0 %100
20	IP-1B	Z	.016	.016	0 %100
21	IP-1C	Z	.016	.016	0 %100
22	IP-1D	Z	0	0	0 %100
23	IP-2A	Z	0	0	0 %100
24	IP-2B	Z	.016	.016	0 %100
25	IP-2C	Z	.016	.016	0 %100
26	IP-2D	Z	.016	.016	0 %100
27	IP-3A	Z	.016	.016	0 %100
28	IP-3B	Z	0	0	0 %100
29	IP-3C	Z	0	0	0 %100
30	IP-3D	Z	.016	.016	0 %100
31	INT-1A	Z	.011	.011	0 %100
32	INT-1B	Z	.011	.011	0 %100
33	INT-2A	Z	0	0	0 %100
34	INT-2B	Z	0	0	0 %100
35	INT-3A	Z	.011	.011	0 %100
36	INT-3B	Z	.011	.011	0 %100
37	MP-1	Z	.009	.009	0 %100
38	MP-2	Z	.009	.009	0 %100
39	MP-3	Z	.009	.009	0 %100
40	MP-4	Z	.009	.009	0 %100
41	MP-5	Z	.009	.009	0 %100
42	MP-6	Z	.009	.009	0 %100
43	MP-7	Z	.009	.009	0 %100
44	MP-8	Z	.009	.009	0 %100
45	MP-9	Z	.009	.009	0 %100
46	SRC-1B	Z	.018	.018	0 %100
47	SRC-2B	Z	.018	.018	0 %100
48	SRC-3B	Z	0	0	0 %100
49	SRC-1A	Z	.016	.016	0 %100
50	SRC-1C	Z	0	0	0 %100
51	SRC-2A	Z	0	0	0 %100
52	SRC-2C	Z	.016	.016	0 %100
53	SRC-3A	Z	.016	.016	0 %100
54	SRC-3C	Z	.016	.016	0 %100
55	SA-1	Z	.007	.007	0 %100
56	SA-2	Z	.016	.016	0 %100
57	SA-3	Z	.007	.007	0 %100



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Member Distributed Loads (BLC 14 : 270 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
58	SR-1	Z	0	0	%100
59	SR-2	Z	.008	.008	0
60	SR-3	Z	.008	.008	0

Member Distributed Loads (BLC 15 : 300 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	-.005	-.005	0
2	CP-2B	X	-.01	-.01	0
3	CP-3B	X	-.006	-.006	0
4	CP-1A	X	-.009	-.009	0
5	CP-1C	X	-.005	-.005	0
6	CP-2A	X	-.005	-.005	0
7	CP-2C	X	-.005	-.005	0
8	CP-3A	X	-.005	-.005	0
9	CP-3C	X	-.009	-.009	0
10	FFTH	X	-.003	-.003	0
11	SF2-TH	X	-.004	-.004	0
12	SF3-TH	X	-.002	-.002	0
13	GS-1	X	-.002	-.002	0
14	GS-2	X	-.004	-.004	0
15	GS-3	X	-.004	-.004	0
16	GS-4	X	-.002	-.002	0
17	GS-5	X	-.002	-.002	0
18	GS-6	X	-.002	-.002	0
19	IP-1A	X	-.009	-.009	0
20	IP-1B	X	-.005	-.005	0
21	IP-1C	X	-.005	-.005	0
22	IP-1D	X	-.005	-.005	0
23	IP-2A	X	-.005	-.005	0
24	IP-2B	X	-.009	-.009	0
25	IP-2C	X	-.009	-.009	0
26	IP-2D	X	-.005	-.005	0
27	IP-3A	X	-.005	-.005	0
28	IP-3B	X	-.005	-.005	0
29	IP-3C	X	-.005	-.005	0
30	IP-3D	X	-.009	-.009	0
31	INT-1A	X	-.003	-.003	0
32	INT-1B	X	-.003	-.003	0
33	INT-2A	X	-.003	-.003	0
34	INT-2B	X	-.003	-.003	0
35	INT-3A	X	-.006	-.006	0
36	INT-3B	X	-.006	-.006	0
37	MP-1	X	-.004	-.004	0
38	MP-2	X	-.004	-.004	0
39	MP-3	X	-.004	-.004	0
40	MP-4	X	-.004	-.004	0
41	MP-5	X	-.004	-.004	0
42	MP-6	X	-.004	-.004	0
43	MP-7	X	-.004	-.004	0
44	MP-8	X	-.004	-.004	0
45	MP-9	X	-.004	-.004	0
46	SRC-1B	X	-.005	-.005	0
47	SRC-2B	X	-.01	-.01	0
48	SRC-3B	X	-.005	-.005	0
49	SRC-1A	X	-.009	-.009	0
50	SRC-1C	X	-.005	-.005	0



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
51	SRC-2A	X	-.005	-.005	0
52	SRC-2C	X	-.005	-.005	0
53	SRC-3A	X	-.005	-.005	0
54	SRC-3C	X	-.009	-.009	0
55	SA-1	X	-.007	-.007	0
56	SA-2	X	-.005	-.005	0
57	SA-3	X	0	0	0
58	SR-1	X	-.002	-.002	0
59	SR-2	X	-.004	-.004	0
60	SR-3	X	-.002	-.002	0
61	CP-1B	Z	.01	.01	0
62	CP-2B	Z	.019	.019	0
63	CP-3B	Z	.01	.01	0
64	CP-1A	Z	.016	.016	0
65	CP-1C	Z	.008	.008	0
66	CP-2A	Z	.008	.008	0
67	CP-2C	Z	.008	.008	0
68	CP-3A	Z	.008	.008	0
69	CP-3C	Z	.016	.016	0
70	FFTH	Z	.004	.004	0
71	SF2-TH	Z	.008	.008	0
72	SF3-TH	Z	.004	.004	0
73	GS-1	Z	.003	.003	0
74	GS-2	Z	.007	.007	0
75	GS-3	Z	.007	.007	0
76	GS-4	Z	.004	.004	0
77	GS-5	Z	.003	.003	0
78	GS-6	Z	.003	.003	0
79	IP-1A	Z	.016	.016	0
80	IP-1B	Z	.008	.008	0
81	IP-1C	Z	.008	.008	0
82	IP-1D	Z	.008	.008	0
83	IP-2A	Z	.008	.008	0
84	IP-2B	Z	.016	.016	0
85	IP-2C	Z	.016	.016	0
86	IP-2D	Z	.008	.008	0
87	IP-3A	Z	.008	.008	0
88	IP-3B	Z	.008	.008	0
89	IP-3C	Z	.008	.008	0
90	IP-3D	Z	.016	.016	0
91	INT-1A	Z	.005	.005	0
92	INT-1B	Z	.005	.005	0
93	INT-2A	Z	.006	.006	0
94	INT-2B	Z	.006	.006	0
95	INT-3A	Z	.011	.011	0
96	INT-3B	Z	.011	.011	0
97	MP-1	Z	.008	.008	0
98	MP-2	Z	.008	.008	0
99	MP-3	Z	.008	.008	0
100	MP-4	Z	.008	.008	0
101	MP-5	Z	.008	.008	0
102	MP-6	Z	.008	.008	0
103	MP-7	Z	.008	.008	0
104	MP-8	Z	.008	.008	0
105	MP-9	Z	.008	.008	0
106	SRC-1B	Z	.009	.009	0
107	SRC-2B	Z	.018	.018	0



Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
108	SRC-3B	Z	.009	.009	0	%100
109	SRC-1A	Z	.016	.016	0	%100
110	SRC-1C	Z	.008	.008	0	%100
111	SRC-2A	Z	.008	.008	0	%100
112	SRC-2C	Z	.008	.008	0	%100
113	SRC-3A	Z	.008	.008	0	%100
114	SRC-3C	Z	.016	.016	0	%100
115	SA-1	Z	.01	.01	0	%100
116	SA-2	Z	.012	.012	0	%100
117	SA-3	Z	0	0	0	%100
118	SR-1	Z	.004	.004	0	%100
119	SR-2	Z	.008	.008	0	%100
120	SR-3	Z	.004	.004	0	%100

Member Distributed Loads (BLC 16 : 315 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
1	CP-1B	X	-.004	-.004	0	%100
2	CP-2B	X	-.014	-.014	0	%100
3	CP-3B	X	-.011	-.011	0	%100
4	CP-1A	X	-.013	-.013	0	%100
5	CP-1C	X	-.009	-.009	0	%100
6	CP-2A	X	-.009	-.009	0	%100
7	CP-2C	X	-.003	-.003	0	%100
8	CP-3A	X	-.003	-.003	0	%100
9	CP-3C	X	-.013	-.013	0	%100
10	FFTH	X	-.005	-.005	0	%100
11	SF2-TH	X	-.005	-.005	0	%100
12	SF3-TH	X	-.001	-.001	0	%100
13	GS-1	X	-.004	-.004	0	%100
14	GS-2	X	-.005	-.005	0	%100
15	GS-3	X	-.005	-.005	0	%100
16	GS-4	X	-.001	-.001	0	%100
17	GS-5	X	-.001	-.001	0	%100
18	GS-6	X	-.004	-.004	0	%100
19	IP-1A	X	-.013	-.013	0	%100
20	IP-1B	X	-.003	-.003	0	%100
21	IP-1C	X	-.003	-.003	0	%100
22	IP-1D	X	-.009	-.009	0	%100
23	IP-2A	X	-.009	-.009	0	%100
24	IP-2B	X	-.013	-.013	0	%100
25	IP-2C	X	-.013	-.013	0	%100
26	IP-2D	X	-.003	-.003	0	%100
27	IP-3A	X	-.003	-.003	0	%100
28	IP-3B	X	-.009	-.009	0	%100
29	IP-3C	X	-.009	-.009	0	%100
30	IP-3D	X	-.013	-.013	0	%100
31	INT-1A	X	-.002	-.002	0	%100
32	INT-1B	X	-.002	-.002	0	%100
33	INT-2A	X	-.006	-.006	0	%100
34	INT-2B	X	-.006	-.006	0	%100
35	INT-3A	X	-.008	-.008	0	%100
36	INT-3B	X	-.008	-.008	0	%100
37	MP-1	X	-.006	-.006	0	%100
38	MP-2	X	-.006	-.006	0	%100
39	MP-3	X	-.006	-.006	0	%100
40	MP-4	X	-.006	-.006	0	%100



Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
41	MP-5	X	-.006	-.006	0	%100
42	MP-6	X	-.006	-.006	0	%100
43	MP-7	X	-.006	-.006	0	%100
44	MP-8	X	-.006	-.006	0	%100
45	MP-9	X	-.006	-.006	0	%100
46	SRC-1B	X	-.003	-.003	0	%100
47	SRC-2B	X	-.013	-.013	0	%100
48	SRC-3B	X	-.011	-.011	0	%100
49	SRC-1A	X	-.013	-.013	0	%100
50	SRC-1C	X	-.009	-.009	0	%100
51	SRC-2A	X	-.009	-.009	0	%100
52	SRC-2C	X	-.003	-.003	0	%100
53	SRC-3A	X	-.003	-.003	0	%100
54	SRC-3C	X	-.013	-.013	0	%100
55	SA-1	X	-.01	-.01	0	%100
56	SA-2	X	-.006	-.006	0	%100
57	SA-3	X	-.003	-.003	0	%100
58	SR-1	X	-.004	-.004	0	%100
59	SR-2	X	-.006	-.006	0	%100
60	SR-3	X	-.002	-.002	0	%100
61	CP-1B	Z	.004	.004	0	%100
62	CP-2B	Z	.015	.015	0	%100
63	CP-3B	Z	.011	.011	0	%100
64	CP-1A	Z	.013	.013	0	%100
65	CP-1C	Z	.009	.009	0	%100
66	CP-2A	Z	.009	.009	0	%100
67	CP-2C	Z	.003	.003	0	%100
68	CP-3A	Z	.003	.003	0	%100
69	CP-3C	Z	.013	.013	0	%100
70	FFTH	Z	.005	.005	0	%100
71	SF2-TH	Z	.007	.007	0	%100
72	SF3-TH	Z	.002	.002	0	%100
73	GS-1	Z	.003	.003	0	%100
74	GS-2	Z	.006	.006	0	%100
75	GS-3	Z	.006	.006	0	%100
76	GS-4	Z	.002	.002	0	%100
77	GS-5	Z	.001	.001	0	%100
78	GS-6	Z	.003	.003	0	%100
79	IP-1A	Z	.013	.013	0	%100
80	IP-1B	Z	.003	.003	0	%100
81	IP-1C	Z	.003	.003	0	%100
82	IP-1D	Z	.009	.009	0	%100
83	IP-2A	Z	.009	.009	0	%100
84	IP-2B	Z	.013	.013	0	%100
85	IP-2C	Z	.013	.013	0	%100
86	IP-2D	Z	.003	.003	0	%100
87	IP-3A	Z	.003	.003	0	%100
88	IP-3B	Z	.009	.009	0	%100
89	IP-3C	Z	.009	.009	0	%100
90	IP-3D	Z	.013	.013	0	%100
91	INT-1A	Z	.002	.002	0	%100
92	INT-1B	Z	.002	.002	0	%100
93	INT-2A	Z	.006	.006	0	%100
94	INT-2B	Z	.006	.006	0	%100
95	INT-3A	Z	.008	.008	0	%100
96	INT-3B	Z	.008	.008	0	%100
97	MP-1	Z	.006	.006	0	%100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
98	MP-2	Z	.006	.006	0	%100
99	MP-3	Z	.006	.006	0	%100
100	MP-4	Z	.006	.006	0	%100
101	MP-5	Z	.006	.006	0	%100
102	MP-6	Z	.006	.006	0	%100
103	MP-7	Z	.006	.006	0	%100
104	MP-8	Z	.006	.006	0	%100
105	MP-9	Z	.006	.006	0	%100
106	SRC-1B	Z	.004	.004	0	%100
107	SRC-2B	Z	.014	.014	0	%100
108	SRC-3B	Z	.011	.011	0	%100
109	SRC-1A	Z	.013	.013	0	%100
110	SRC-1C	Z	.009	.009	0	%100
111	SRC-2A	Z	.009	.009	0	%100
112	SRC-2C	Z	.003	.003	0	%100
113	SRC-3A	Z	.003	.003	0	%100
114	SRC-3C	Z	.013	.013	0	%100
115	SA-1	Z	.009	.009	0	%100
116	SA-2	Z	.008	.008	0	%100
117	SA-3	Z	.003	.003	0	%100
118	SR-1	Z	.004	.004	0	%100
119	SR-2	Z	.006	.006	0	%100
120	SR-3	Z	.002	.002	0	%100

Member Distributed Loads (BLC 17 : 330 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
1	CP-1B	X	0	0	0	%100
2	CP-2B	X	-.015	-.015	0	%100
3	CP-3B	X	-.017	-.017	0	%100
4	CP-1A	X	-.014	-.014	0	%100
5	CP-1C	X	-.014	-.014	0	%100
6	CP-2A	X	-.014	-.014	0	%100
7	CP-2C	X	0	0	0	%100
8	CP-3A	X	0	0	0	%100
9	CP-3C	X	-.014	-.014	0	%100
10	FFTH	X	-.008	-.008	0	%100
11	SF2-TH	X	-.005	-.005	0	%100
12	SF3-TH	X	0	0	0	%100
13	GS-1	X	-.006	-.006	0	%100
14	GS-2	X	-.006	-.006	0	%100
15	GS-3	X	-.005	-.005	0	%100
16	GS-4	X	-.000169	-.000169	0	%100
17	GS-5	X	-.000172	-.000172	0	%100
18	GS-6	X	-.006	-.006	0	%100
19	IP-1A	X	-.014	-.014	0	%100
20	IP-1B	X	0	0	0	%100
21	IP-1C	X	0	0	0	%100
22	IP-1D	X	-.014	-.014	0	%100
23	IP-2A	X	-.014	-.014	0	%100
24	IP-2B	X	-.014	-.014	0	%100
25	IP-2C	X	-.014	-.014	0	%100
26	IP-2D	X	0	0	0	%100
27	IP-3A	X	0	0	0	%100
28	IP-3B	X	-.014	-.014	0	%100
29	IP-3C	X	-.014	-.014	0	%100
30	IP-3D	X	-.014	-.014	0	%100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
31	INT-1A	X	0	0	0	%100
32	INT-1B	X	0	0	0	%100
33	INT-2A	X	-.01	-.01	0	%100
34	INT-2B	X	-.01	-.01	0	%100
35	INT-3A	X	-.008	-.008	0	%100
36	INT-3B	X	-.008	-.008	0	%100
37	MP-1	X	-.008	-.008	0	%100
38	MP-2	X	-.008	-.008	0	%100
39	MP-3	X	-.008	-.008	0	%100
40	MP-4	X	-.008	-.008	0	%100
41	MP-5	X	-.008	-.008	0	%100
42	MP-6	X	-.008	-.008	0	%100
43	MP-7	X	-.008	-.008	0	%100
44	MP-8	X	-.008	-.008	0	%100
45	MP-9	X	-.008	-.008	0	%100
46	SRC-1B	X	0	0	0	%100
47	SRC-2B	X	-.014	-.014	0	%100
48	SRC-3B	X	-.016	-.016	0	%100
49	SRC-1A	X	-.014	-.014	0	%100
50	SRC-1C	X	-.014	-.014	0	%100
51	SRC-2A	X	-.014	-.014	0	%100
52	SRC-2C	X	0	0	0	%100
53	SRC-3A	X	0	0	0	%100
54	SRC-3C	X	-.014	-.014	0	%100
55	SA-1	X	-.013	-.013	0	%100
56	SA-2	X	-.005	-.005	0	%100
57	SA-3	X	-.007	-.007	0	%100
58	SR-1	X	-.007	-.007	0	%100
59	SR-2	X	-.006	-.006	0	%100
60	SR-3	X	0	0	0	%100
61	CP-1B	Z	0	0	0	%100
62	CP-2B	Z	.01	.01	0	%100
63	CP-3B	Z	.01	.01	0	%100
64	CP-1A	Z	.008	.008	0	%100
65	CP-1C	Z	.008	.008	0	%100
66	CP-2A	Z	.008	.008	0	%100
67	CP-2C	Z	0	0	0	%100
68	CP-3A	Z	0	0	0	%100
69	CP-3C	Z	.008	.008	0	%100
70	FFTH	Z	.004	.004	0	%100
71	SF2-TH	Z	.004	.004	0	%100
72	SF3-TH	Z	0	0	0	%100
73	GS-1	Z	.003	.003	0	%100
74	GS-2	Z	.004	.004	0	%100
75	GS-3	Z	.003	.003	0	%100
76	GS-4	Z	.000111	.000111	0	%100
77	GS-5	Z	.00011	.00011	0	%100
78	GS-6	Z	.003	.003	0	%100
79	IP-1A	Z	.008	.008	0	%100
80	IP-1B	Z	0	0	0	%100
81	IP-1C	Z	0	0	0	%100
82	IP-1D	Z	.008	.008	0	%100
83	IP-2A	Z	.008	.008	0	%100
84	IP-2B	Z	.008	.008	0	%100
85	IP-2C	Z	.008	.008	0	%100
86	IP-2D	Z	0	0	0	%100
87	IP-3A	Z	0	0	0	%100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location[ft.%]	
88	IP-3B	Z	.008	.008	0	%100
89	IP-3C	Z	.008	.008	0	%100
90	IP-3D	Z	.008	.008	0	%100
91	INT-1A	Z	0	0	0	%100
92	INT-1B	Z	0	0	0	%100
93	INT-2A	Z	.006	.006	0	%100
94	INT-2B	Z	.006	.006	0	%100
95	INT-3A	Z	.005	.005	0	%100
96	INT-3B	Z	.005	.005	0	%100
97	MP-1	Z	.004	.004	0	%100
98	MP-2	Z	.004	.004	0	%100
99	MP-3	Z	.004	.004	0	%100
100	MP-4	Z	.004	.004	0	%100
101	MP-5	Z	.004	.004	0	%100
102	MP-6	Z	.004	.004	0	%100
103	MP-7	Z	.004	.004	0	%100
104	MP-8	Z	.004	.004	0	%100
105	MP-9	Z	.004	.004	0	%100
106	SRC-1B	Z	0	0	0	%100
107	SRC-2B	Z	.009	.009	0	%100
108	SRC-3B	Z	.009	.009	0	%100
109	SRC-1A	Z	.008	.008	0	%100
110	SRC-1C	Z	.008	.008	0	%100
111	SRC-2A	Z	.008	.008	0	%100
112	SRC-2C	Z	0	0	0	%100
113	SRC-3A	Z	0	0	0	%100
114	SRC-3C	Z	.008	.008	0	%100
115	SA-1	Z	.007	.007	0	%100
116	SA-2	Z	.004	.004	0	%100
117	SA-3	Z	.003	.003	0	%100
118	SR-1	Z	.004	.004	0	%100
119	SR-2	Z	.004	.004	0	%100
120	SR-3	Z	0	0	0	%100

Member Distributed Loads (BLC 18 : Ice Weight)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location[ft.%]	
1	CP-1B	Y	-.008	-.008	0	%100
2	CP-2B	Y	-.008	-.008	0	%100
3	CP-3B	Y	-.008	-.008	0	%100
4	CP-1A	Y	-.009	-.009	0	%100
5	CP-1C	Y	-.009	-.009	0	%100
6	CP-2A	Y	-.009	-.009	0	%100
7	CP-2C	Y	-.009	-.009	0	%100
8	CP-3A	Y	-.009	-.009	0	%100
9	CP-3C	Y	-.009	-.009	0	%100
10	FFTH	Y	-.007	-.007	0	%100
11	SF2-TH	Y	-.007	-.007	0	%100
12	SF3-TH	Y	-.007	-.007	0	%100
13	GS-1	Y	-.004	-.004	0	%100
14	GS-2	Y	-.004	-.004	0	%100
15	GS-3	Y	-.004	-.004	0	%100
16	GS-4	Y	-.004	-.004	0	%100
17	GS-5	Y	-.004	-.004	0	%100
18	GS-6	Y	-.004	-.004	0	%100
19	IP-1A	Y	-.011	-.011	0	%100
20	IP-1B	Y	-.01	-.01	0	%100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 18 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location[ft.%]	
21	IP-1C	Y	-.01	-.01	0	%100
22	IP-1D	Y	-.011	-.011	0	%100
23	IP-2A	Y	-.011	-.011	0	%100
24	IP-2B	Y	-.01	-.01	0	%100
25	IP-2C	Y	-.01	-.01	0	%100
26	IP-2D	Y	-.011	-.011	0	%100
27	IP-3A	Y	-.011	-.011	0	%100
28	IP-3B	Y	-.01	-.01	0	%100
29	IP-3C	Y	-.01	-.01	0	%100
30	IP-3D	Y	-.011	-.011	0	%100
31	INT-1A	Y	-.005	-.005	0	%100
32	INT-1B	Y	-.005	-.005	0	%100
33	INT-2A	Y	-.005	-.005	0	%100
34	INT-2B	Y	-.005	-.005	0	%100
35	INT-3A	Y	-.005	-.005	0	%100
36	INT-3B	Y	-.005	-.005	0	%100
37	MP-1	Y	-.006	-.006	0	%100
38	MP-2	Y	-.006	-.006	0	%100
39	MP-3	Y	-.006	-.006	0	%100
40	MP-4	Y	-.006	-.006	0	%100
41	MP-5	Y	-.006	-.006	0	%100
42	MP-6	Y	-.006	-.006	0	%100
43	MP-7	Y	-.006	-.006	0	%100
44	MP-8	Y	-.006	-.006	0	%100
45	MP-9	Y	-.006	-.006	0	%100
46	SRC-1B	Y	-.009	-.009	0	%100
47	SRC-2B	Y	-.009	-.009	0	%100
48	SRC-3B	Y	-.009	-.009	0	%100
49	SRC-1A	Y	-.013	-.013	0	%100
50	SRC-1C	Y	-.013	-.013	0	%100
51	SRC-2A	Y	-.013	-.013	0	%100
52	SRC-2C	Y	-.013	-.013	0	%100
53	SRC-3A	Y	-.013	-.013	0	%100
54	SRC-3C	Y	-.013	-.013	0	%100
55	SA-1	Y	-.007	-.007	0	%100
56	SA-2	Y	-.007	-.007	0	%100
57	SA-3	Y	-.007	-.007	0	%100
58	SR-1	Y	-.006	-.006	0	%100
59	SR-2	Y	-.006	-.006	0	%100
60	SR-3	Y	-.006	-.006	0	%100

Member Distributed Loads (BLC 19 : 0 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location[ft.%]	
1	CP-1B	X	-.005	-.005	0	%100
2	CP-2B	X	-.005	-.005	0	%100
3	CP-3B	X	-.005	-.005	0	%100
4	CP-1A	X	-.007	-.007	0	%100
5	CP-1C	X	-.007	-.007	0	%100
6	CP-2A	X	-.007	-.007	0	%100
7	CP-2C	X	-.007	-.007	0	%100
8	CP-3A	X	-.007	-.007	0	%100
9	CP-3C	X	-.007	-.007	0	%100
10	FFTH	X	-.003	-.003	0	%100
11	SF2-TH	X	-.002	-.002	0	%100
12	SF3-TH	X	-.002	-.002	0	%100
13	GS-1	X	-.003	-.003	0	%100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 19 : 0 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
14	GS-2	X	-0.003	-0.003	0 %100
15	GS-3	X	-0.003	-0.003	0 %100
16	GS-4	X	-0.003	-0.003	0 %100
17	GS-5	X	-0.003	-0.003	0 %100
18	GS-6	X	-0.003	-0.003	0 %100
19	IP-1A	X	-0.009	-0.009	0 %100
20	IP-1B	X	-0.008	-0.008	0 %100
21	IP-1C	X	-0.008	-0.008	0 %100
22	IP-1D	X	-0.009	-0.009	0 %100
23	IP-2A	X	-0.009	-0.009	0 %100
24	IP-2B	X	-0.008	-0.008	0 %100
25	IP-2C	X	-0.008	-0.008	0 %100
26	IP-2D	X	-0.009	-0.009	0 %100
27	IP-3A	X	-0.009	-0.009	0 %100
28	IP-3B	X	-0.008	-0.008	0 %100
29	IP-3C	X	-0.008	-0.008	0 %100
30	IP-3D	X	-0.009	-0.009	0 %100
31	INT-1A	X	-0.003	-0.003	0 %100
32	INT-1B	X	-0.003	-0.003	0 %100
33	INT-2A	X	-0.004	-0.004	0 %100
34	INT-2B	X	-0.004	-0.004	0 %100
35	INT-3A	X	-0.003	-0.003	0 %100
36	INT-3B	X	-0.003	-0.003	0 %100
37	MP-1	X	-0.002	-0.002	0 %100
38	MP-2	X	-0.002	-0.002	0 %100
39	MP-3	X	-0.002	-0.002	0 %100
40	MP-4	X	-0.002	-0.002	0 %100
41	MP-5	X	-0.002	-0.002	0 %100
42	MP-6	X	-0.002	-0.002	0 %100
43	MP-7	X	-0.002	-0.002	0 %100
44	MP-8	X	-0.002	-0.002	0 %100
45	MP-9	X	-0.002	-0.002	0 %100
46	SRC-1B	X	-0.005	-0.005	0 %100
47	SRC-2B	X	-0.005	-0.005	0 %100
48	SRC-3B	X	-0.005	-0.005	0 %100
49	SRC-1A	X	-0.007	-0.007	0 %100
50	SRC-1C	X	-0.007	-0.007	0 %100
51	SRC-2A	X	-0.007	-0.007	0 %100
52	SRC-2C	X	-0.007	-0.007	0 %100
53	SRC-3A	X	-0.007	-0.007	0 %100
54	SRC-3C	X	-0.007	-0.007	0 %100
55	SA-1	X	-0.004	-0.004	0 %100
56	SA-2	X	-0.004	-0.004	0 %100
57	SA-3	X	-0.004	-0.004	0 %100
58	SR-1	X	-0.003	-0.003	0 %100
59	SR-2	X	-0.002	-0.002	0 %100
60	SR-3	X	-0.002	-0.002	0 %100

Member Distributed Loads (BLC 20 : 30 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	-0.004	-0.004	0 %100
2	CP-2B	X	0	0	0 %100
3	CP-3B	X	-0.004	-0.004	0 %100
4	CP-1A	X	0	0	0 %100
5	CP-1C	X	-0.006	-0.006	0 %100
6	CP-2A	X	-0.006	-0.006	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
7	CP-2C	X	-0.006	-0.006	0 %100
8	CP-3A	X	-0.006	-0.006	0 %100
9	CP-3C	X	0	0	0 %100
10	FFTH	X	-0.002	-0.002	0 %100
11	SF2-TH	X	0	0	0 %100
12	SF3-TH	X	-0.002	-0.002	0 %100
13	GS-1	X	-0.002	-0.002	0 %100
14	GS-2	X	-6.3e-5	-6.3e-5	0 %100
15	GS-3	X	-6.2e-5	-6.2e-5	0 %100
16	GS-4	X	-0.002	-0.002	0 %100
17	GS-5	X	-0.002	-0.002	0 %100
18	GS-6	X	-0.002	-0.002	0 %100
19	IP-1A	X	0	0	0 %100
20	IP-1B	X	-0.006	-0.006	0 %100
21	IP-1C	X	-0.006	-0.006	0 %100
22	IP-1D	X	-0.006	-0.006	0 %100
23	IP-2A	X	-0.006	-0.006	0 %100
24	IP-2B	X	0	0	0 %100
25	IP-2C	X	0	0	0 %100
26	IP-2D	X	-0.006	-0.006	0 %100
27	IP-3A	X	-0.006	-0.006	0 %100
28	IP-3B	X	-0.006	-0.006	0 %100
29	IP-3C	X	-0.006	-0.006	0 %100
30	IP-3D	X	0	0	0 %100
31	INT-1A	X	-0.003	-0.003	0 %100
32	INT-1B	X	-0.003	-0.003	0 %100
33	INT-2A	X	-0.003	-0.003	0 %100
34	INT-2B	X	-0.003	-0.003	0 %100
35	INT-3A	X	0	0	0 %100
36	INT-3B	X	0	0	0 %100
37	MP-1	X	-0.002	-0.002	0 %100
38	MP-2	X	-0.002	-0.002	0 %100
39	MP-3	X	-0.002	-0.002	0 %100
40	MP-4	X	-0.002	-0.002	0 %100
41	MP-5	X	-0.002	-0.002	0 %100
42	MP-6	X	-0.002	-0.002	0 %100
43	MP-7	X	-0.002	-0.002	0 %100
44	MP-8	X	-0.002	-0.002	0 %100
45	MP-9	X	-0.002	-0.002	0 %100
46	SRC-1B	X	-0.004	-0.004	0 %100
47	SRC-2B	X	0	0	0 %100
48	SRC-3B	X	-0.004	-0.004	0 %100
49	SRC-1A	X	0	0	0 %100
50	SRC-1C	X	-0.005	-0.005	0 %100
51	SRC-2A	X	-0.005	-0.005	0 %100
52	SRC-2C	X	-0.005	-0.005	0 %100
53	SRC-3A	X	-0.005	-0.005	0 %100
54	SRC-3C	X	0	0	0 %100
55	SA-1	X	-0.002	-0.002	0 %100
56	SA-2	X	-0.002	-0.002	0 %100
57	SA-3	X	-0.004	-0.004	0 %100
58	SR-1	X	-0.002	-0.002	0 %100
59	SR-2	X	0	0	0 %100
60	SR-3	X	-0.002	-0.002	0 %100
61	CP-1B	Z	-0.002	-0.002	0 %100
62	CP-2B	Z	0	0	0 %100
63	CP-3B	Z	-0.002	-0.002	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
64	CP-1A	Z	0	0	%100	
65	CP-1C	Z	-0.003	-0.003	0	%100
66	CP-2A	Z	-0.003	-0.003	0	%100
67	CP-2C	Z	-0.003	-0.003	0	%100
68	CP-3A	Z	-0.003	-0.003	0	%100
69	CP-3C	Z	0	0	0	%100
70	FFTH	Z	-0.001	-0.001	0	%100
71	SF2-TH	Z	0	0	0	%100
72	SF3-TH	Z	-0.001	-0.001	0	%100
73	GS-1	Z	-0.001	-0.001	0	%100
74	GS-2	Z	-3.9e-5	-3.9e-5	0	%100
75	GS-3	Z	-3.9e-5	-3.9e-5	0	%100
76	GS-4	Z	-0.001	-0.001	0	%100
77	GS-5	Z	-0.001	-0.001	0	%100
78	GS-6	Z	-0.001	-0.001	0	%100
79	IP-1A	Z	0	0	0	%100
80	IP-1B	Z	-0.003	-0.003	0	%100
81	IP-1C	Z	-0.003	-0.003	0	%100
82	IP-1D	Z	-0.003	-0.003	0	%100
83	IP-2A	Z	-0.003	-0.003	0	%100
84	IP-2B	Z	0	0	0	%100
85	IP-2C	Z	0	0	0	%100
86	IP-2D	Z	-0.004	-0.004	0	%100
87	IP-3A	Z	-0.004	-0.004	0	%100
88	IP-3B	Z	-0.003	-0.003	0	%100
89	IP-3C	Z	-0.003	-0.003	0	%100
90	IP-3D	Z	0	0	0	%100
91	INT-1A	Z	-0.002	-0.002	0	%100
92	INT-1B	Z	-0.002	-0.002	0	%100
93	INT-2A	Z	-0.001	-0.001	0	%100
94	INT-2B	Z	-0.001	-0.001	0	%100
95	INT-3A	Z	0	0	0	%100
96	INT-3B	Z	0	0	0	%100
97	MP-1	Z	-0.001	-0.001	0	%100
98	MP-2	Z	-0.001	-0.001	0	%100
99	MP-3	Z	-0.001	-0.001	0	%100
100	MP-4	Z	-0.001	-0.001	0	%100
101	MP-5	Z	-0.001	-0.001	0	%100
102	MP-6	Z	-0.001	-0.001	0	%100
103	MP-7	Z	-0.001	-0.001	0	%100
104	MP-8	Z	-0.001	-0.001	0	%100
105	MP-9	Z	-0.001	-0.001	0	%100
106	SRC-1B	Z	-0.002	-0.002	0	%100
107	SRC-2B	Z	0	0	0	%100
108	SRC-3B	Z	-0.002	-0.002	0	%100
109	SRC-1A	Z	0	0	0	%100
110	SRC-1C	Z	-0.003	-0.003	0	%100
111	SRC-2A	Z	-0.003	-0.003	0	%100
112	SRC-2C	Z	-0.003	-0.003	0	%100
113	SRC-3A	Z	-0.003	-0.003	0	%100
114	SRC-3C	Z	0	0	0	%100
115	SA-1	Z	-0.000944	-0.000944	0	%100
116	SA-2	Z	-0.001	-0.001	0	%100
117	SA-3	Z	-0.002	-0.002	0	%100
118	SR-1	Z	-0.001	-0.001	0	%100
119	SR-2	Z	0	0	0	%100
120	SR-3	Z	-0.001	-0.001	0	%100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 21 : 45 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
1	CP-1B	X	-0.003	-0.003	0	%100
2	CP-2B	X	-0.000935	-0.000935	0	%100
3	CP-3B	X	-0.003	-0.003	0	%100
4	CP-1A	X	-0.001	-0.001	0	%100
5	CP-1C	X	-0.004	-0.004	0	%100
6	CP-2A	X	-0.004	-0.004	0	%100
7	CP-2C	X	-0.005	-0.005	0	%100
8	CP-3A	X	-0.005	-0.005	0	%100
9	CP-3C	X	-0.001	-0.001	0	%100
10	FFTH	X	-0.001	-0.001	0	%100
11	SF2-TH	X	-0.000414	-0.000414	0	%100
12	SF3-TH	X	-0.002	-0.002	0	%100
13	GS-1	X	-0.001	-0.001	0	%100
14	GS-2	X	-0.000438	-0.000438	0	%100
15	GS-3	X	-0.000531	-0.000531	0	%100
16	GS-4	X	-0.002	-0.002	0	%100
17	GS-5	X	-0.002	-0.002	0	%100
18	GS-6	X	-0.002	-0.002	0	%100
19	IP-1A	X	-0.002	-0.002	0	%100
20	IP-1B	X	-0.005	-0.005	0	%100
21	IP-1C	X	-0.005	-0.005	0	%100
22	IP-1D	X	-0.004	-0.004	0	%100
23	IP-2A	X	-0.004	-0.004	0	%100
24	IP-2B	X	-0.001	-0.001	0	%100
25	IP-2C	X	-0.001	-0.001	0	%100
26	IP-2D	X	-0.006	-0.006	0	%100
27	IP-3A	X	-0.006	-0.006	0	%100
28	IP-3B	X	-0.004	-0.004	0	%100
29	IP-3C	X	-0.004	-0.004	0	%100
30	IP-3D	X	-0.002	-0.002	0	%100
31	INT-1A	X	-0.002	-0.002	0	%100
32	INT-1B	X	-0.002	-0.002	0	%100
33	INT-2A	X	-0.002	-0.002	0	%100
34	INT-2B	X	-0.002	-0.002	0	%100
35	INT-3A	X	-0.000621	-0.000621	0	%100
36	INT-3B	X	-0.000621	-0.000621	0	%100
37	MP-1	X	-0.002	-0.002	0	%100
38	MP-2	X	-0.002	-0.002	0	%100
39	MP-3	X	-0.002	-0.002	0	%100
40	MP-4	X	-0.002	-0.002	0	%100
41	MP-5	X	-0.002	-0.002	0	%100
42	MP-6	X	-0.002	-0.002	0	%100
43	MP-7	X	-0.002	-0.002	0	%100
44	MP-8	X	-0.002	-0.002	0	%100
45	MP-9	X	-0.002	-0.002	0	%100
46	SRC-1B	X	-0.003	-0.003	0	%100
47	SRC-2B	X	-0.000881	-0.000881	0	%100
48	SRC-3B	X	-0.003	-0.003	0	%100
49	SRC-1A	X	-0.001	-0.001	0	%100
50	SRC-1C	X	-0.003	-0.003	0	%100
51	SRC-2A	X	-0.003	-0.003	0	%100
52	SRC-2C	X	-0.005	-0.005	0	%100
53	SRC-3A	X	-0.005	-0.005	0	%100
54	SRC-3C	X	-0.001	-0.001	0	%100
55	SA-1	X	-0.00075	-0.00075	0	%100
56	SA-2	X	-0.002	-0.002	0	%100
57	SA-3	X	-0.003	-0.003	0	%100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
58	SR-1	X	-0.01	-0.01	0 %100
59	SR-2	X	-0.004	-0.004	0 %100
60	SR-3	X	-0.01	-0.01	0 %100
61	CP-1B	Z	-0.04	-0.04	0 %100
62	CP-2B	Z	-0.00982	-0.00982	0 %100
63	CP-3B	Z	-0.02	-0.02	0 %100
64	CP-1A	Z	-0.01	-0.01	0 %100
65	CP-1C	Z	-0.03	-0.03	0 %100
66	CP-2A	Z	-0.03	-0.03	0 %100
67	CP-2C	Z	-0.05	-0.05	0 %100
68	CP-3A	Z	-0.05	-0.05	0 %100
69	CP-3C	Z	-0.01	-0.01	0 %100
70	FFTH	Z	-0.01	-0.01	0 %100
71	SF2-TH	Z	-0.00481	-0.00481	0 %100
72	SF3-TH	Z	-0.02	-0.02	0 %100
73	GS-1	Z	-0.01	-0.01	0 %100
74	GS-2	Z	-0.00471	-0.00471	0 %100
75	GS-3	Z	-0.0058	-0.0058	0 %100
76	GS-4	Z	-0.02	-0.02	0 %100
77	GS-5	Z	-0.02	-0.02	0 %100
78	GS-6	Z	-0.01	-0.01	0 %100
79	IP-1A	Z	-0.02	-0.02	0 %100
80	IP-1B	Z	-0.05	-0.05	0 %100
81	IP-1C	Z	-0.05	-0.05	0 %100
82	IP-1D	Z	-0.04	-0.04	0 %100
83	IP-2A	Z	-0.04	-0.04	0 %100
84	IP-2B	Z	-0.01	-0.01	0 %100
85	IP-2C	Z	-0.01	-0.01	0 %100
86	IP-2D	Z	-0.06	-0.06	0 %100
87	IP-3A	Z	-0.06	-0.06	0 %100
88	IP-3B	Z	-0.04	-0.04	0 %100
89	IP-3C	Z	-0.04	-0.04	0 %100
90	IP-3D	Z	-0.02	-0.02	0 %100
91	INT-1A	Z	-0.02	-0.02	0 %100
92	INT-1B	Z	-0.02	-0.02	0 %100
93	INT-2A	Z	-0.02	-0.02	0 %100
94	INT-2B	Z	-0.02	-0.02	0 %100
95	INT-3A	Z	-0.00665	-0.00665	0 %100
96	INT-3B	Z	-0.00665	-0.00665	0 %100
97	MP-1	Z	-0.02	-0.02	0 %100
98	MP-2	Z	-0.02	-0.02	0 %100
99	MP-3	Z	-0.02	-0.02	0 %100
100	MP-4	Z	-0.02	-0.02	0 %100
101	MP-5	Z	-0.02	-0.02	0 %100
102	MP-6	Z	-0.02	-0.02	0 %100
103	MP-7	Z	-0.02	-0.02	0 %100
104	MP-8	Z	-0.02	-0.02	0 %100
105	MP-9	Z	-0.02	-0.02	0 %100
106	SRC-1B	Z	-0.03	-0.03	0 %100
107	SRC-2B	Z	-0.00935	-0.00935	0 %100
108	SRC-3B	Z	-0.02	-0.02	0 %100
109	SRC-1A	Z	-0.01	-0.01	0 %100
110	SRC-1C	Z	-0.03	-0.03	0 %100
111	SRC-2A	Z	-0.03	-0.03	0 %100
112	SRC-2C	Z	-0.05	-0.05	0 %100
113	SRC-3A	Z	-0.05	-0.05	0 %100
114	SRC-3C	Z	-0.01	-0.01	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
115	SA-1	Z	-0.00691	-0.00691	0 %100
116	SA-2	Z	-0.02	-0.02	0 %100
117	SA-3	Z	-0.03	-0.03	0 %100
118	SR-1	Z	-0.01	-0.01	0 %100
119	SR-2	Z	-0.00484	-0.00484	0 %100
120	SR-3	Z	-0.02	-0.02	0 %100

Member Distributed Loads (BLC 22 : 60 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	-0.03	-0.03	0 %100
2	CP-2B	X	-0.01	-0.01	0 %100
3	CP-3B	X	-0.01	-0.01	0 %100
4	CP-1A	X	-0.02	-0.02	0 %100
5	CP-1C	X	-0.02	-0.02	0 %100
6	CP-2A	X	-0.02	-0.02	0 %100
7	CP-2C	X	-0.04	-0.04	0 %100
8	CP-3A	X	-0.04	-0.04	0 %100
9	CP-3C	X	-0.02	-0.02	0 %100
10	FFTH	X	-0.0069	-0.0069	0 %100
11	SF2-TH	X	-0.00565	-0.00565	0 %100
12	SF3-TH	X	-0.01	-0.01	0 %100
13	GS-1	X	-0.00703	-0.00703	0 %100
14	GS-2	X	-0.00634	-0.00634	0 %100
15	GS-3	X	-0.00689	-0.00689	0 %100
16	GS-4	X	-0.01	-0.01	0 %100
17	GS-5	X	-0.01	-0.01	0 %100
18	GS-6	X	-0.00772	-0.00772	0 %100
19	IP-1A	X	-0.02	-0.02	0 %100
20	IP-1B	X	-0.04	-0.04	0 %100
21	IP-1C	X	-0.04	-0.04	0 %100
22	IP-1D	X	-0.02	-0.02	0 %100
23	IP-2A	X	-0.02	-0.02	0 %100
24	IP-2B	X	-0.02	-0.02	0 %100
25	IP-2C	X	-0.02	-0.02	0 %100
26	IP-2D	X	-0.04	-0.04	0 %100
27	IP-3A	X	-0.04	-0.04	0 %100
28	IP-3B	X	-0.02	-0.02	0 %100
29	IP-3C	X	-0.02	-0.02	0 %100
30	IP-3D	X	-0.02	-0.02	0 %100
31	INT-1A	X	-0.02	-0.02	0 %100
32	INT-1B	X	-0.02	-0.02	0 %100
33	INT-2A	X	-0.00929	-0.00929	0 %100
34	INT-2B	X	-0.00929	-0.00929	0 %100
35	INT-3A	X	-0.00849	-0.00849	0 %100
36	INT-3B	X	-0.00849	-0.00849	0 %100
37	MP-1	X	-0.01	-0.01	0 %100
38	MP-2	X	-0.01	-0.01	0 %100
39	MP-3	X	-0.01	-0.01	0 %100
40	MP-4	X	-0.01	-0.01	0 %100
41	MP-5	X	-0.01	-0.01	0 %100
42	MP-6	X	-0.01	-0.01	0 %100
43	MP-7	X	-0.01	-0.01	0 %100
44	MP-8	X	-0.01	-0.01	0 %100
45	MP-9	X	-0.01	-0.01	0 %100
46	SRC-1B	X	-0.02	-0.02	0 %100
47	SRC-2B	X	-0.01	-0.01	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location(ft.%)
48	SRC-3B	X	-0.01	-0.01	0 %100
49	SRC-1A	X	-0.02	-0.02	0 %100
50	SRC-1C	X	-0.02	-0.02	0 %100
51	SRC-2A	X	-0.02	-0.02	0 %100
52	SRC-2C	X	-0.03	-0.03	0 %100
53	SRC-3A	X	-0.03	-0.03	0 %100
54	SRC-3C	X	-0.02	-0.02	0 %100
55	SA-1	X	0	0	0 %100
56	SA-2	X	-0.02	-0.02	0 %100
57	SA-3	X	-0.02	-0.02	0 %100
58	SR-1	X	-0.00702	-0.00702	0 %100
59	SR-2	X	-0.00547	-0.00547	0 %100
60	SR-3	X	-0.01	-0.01	0 %100
61	CP-1B	Z	-0.05	-0.05	0 %100
62	CP-2B	Z	-0.02	-0.02	0 %100
63	CP-3B	Z	-0.02	-0.02	0 %100
64	CP-1A	Z	-0.03	-0.03	0 %100
65	CP-1C	Z	-0.03	-0.03	0 %100
66	CP-2A	Z	-0.03	-0.03	0 %100
67	CP-2C	Z	-0.06	-0.06	0 %100
68	CP-3A	Z	-0.06	-0.06	0 %100
69	CP-3C	Z	-0.03	-0.03	0 %100
70	FFTH	Z	-0.01	-0.01	0 %100
71	SF2-TH	Z	-0.01	-0.01	0 %100
72	SF3-TH	Z	-0.02	-0.02	0 %100
73	GS-1	Z	-0.01	-0.01	0 %100
74	GS-2	Z	-0.01	-0.01	0 %100
75	GS-3	Z	-0.01	-0.01	0 %100
76	GS-4	Z	-0.02	-0.02	0 %100
77	GS-5	Z	-0.02	-0.02	0 %100
78	GS-6	Z	-0.01	-0.01	0 %100
79	IP-1A	Z	-0.04	-0.04	0 %100
80	IP-1B	Z	-0.07	-0.07	0 %100
81	IP-1C	Z	-0.07	-0.07	0 %100
82	IP-1D	Z	-0.03	-0.03	0 %100
83	IP-2A	Z	-0.03	-0.03	0 %100
84	IP-2B	Z	-0.03	-0.03	0 %100
85	IP-2C	Z	-0.03	-0.03	0 %100
86	IP-2D	Z	-0.07	-0.07	0 %100
87	IP-3A	Z	-0.07	-0.07	0 %100
88	IP-3B	Z	-0.03	-0.03	0 %100
89	IP-3C	Z	-0.03	-0.03	0 %100
90	IP-3D	Z	-0.04	-0.04	0 %100
91	INT-1A	Z	-0.03	-0.03	0 %100
92	INT-1B	Z	-0.03	-0.03	0 %100
93	INT-2A	Z	-0.01	-0.01	0 %100
94	INT-2B	Z	-0.01	-0.01	0 %100
95	INT-3A	Z	-0.02	-0.02	0 %100
96	INT-3B	Z	-0.02	-0.02	0 %100
97	MP-1	Z	-0.02	-0.02	0 %100
98	MP-2	Z	-0.02	-0.02	0 %100
99	MP-3	Z	-0.02	-0.02	0 %100
100	MP-4	Z	-0.02	-0.02	0 %100
101	MP-5	Z	-0.02	-0.02	0 %100
102	MP-6	Z	-0.02	-0.02	0 %100
103	MP-7	Z	-0.02	-0.02	0 %100
104	MP-8	Z	-0.02	-0.02	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location(ft.%)
105	MP-9	Z	-0.02	-0.02	0 %100
106	SRC-1B	Z	-0.04	-0.04	0 %100
107	SRC-2B	Z	-0.02	-0.02	0 %100
108	SRC-3B	Z	-0.02	-0.02	0 %100
109	SRC-1A	Z	-0.03	-0.03	0 %100
110	SRC-1C	Z	-0.03	-0.03	0 %100
111	SRC-2A	Z	-0.03	-0.03	0 %100
112	SRC-2C	Z	-0.06	-0.06	0 %100
113	SRC-3A	Z	-0.06	-0.06	0 %100
114	SRC-3C	Z	-0.03	-0.03	0 %100
115	SA-1	Z	0	0	0 %100
116	SA-2	Z	-0.03	-0.03	0 %100
117	SA-3	Z	-0.03	-0.03	0 %100
118	SR-1	Z	-0.01	-0.01	0 %100
119	SR-2	Z	-0.01	-0.01	0 %100
120	SR-3	Z	-0.02	-0.02	0 %100

Member Distributed Loads (BLC 23 : 90 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location(ft.%)
1	CP-1B	Z	-0.05	-0.05	0 %100
2	CP-2B	Z	-0.05	-0.05	0 %100
3	CP-3B	Z	0	0	0 %100
4	CP-1A	Z	-0.06	-0.06	0 %100
5	CP-1C	Z	0	0	0 %100
6	CP-2A	Z	0	0	0 %100
7	CP-2C	Z	-0.06	-0.06	0 %100
8	CP-3A	Z	-0.06	-0.06	0 %100
9	CP-3C	Z	-0.06	-0.06	0 %100
10	FFTH	Z	0	0	0 %100
11	SF2-TH	Z	-0.02	-0.02	0 %100
12	SF3-TH	Z	-0.02	-0.02	0 %100
13	GS-1	Z	-6.9e-5	-6.9e-5	0 %100
14	GS-2	Z	-0.02	-0.02	0 %100
15	GS-3	Z	-0.03	-0.03	0 %100
16	GS-4	Z	-0.03	-0.03	0 %100
17	GS-5	Z	-0.02	-0.02	0 %100
18	GS-6	Z	-6.9e-5	-6.9e-5	0 %100
19	IP-1A	Z	-0.07	-0.07	0 %100
20	IP-1B	Z	-0.07	-0.07	0 %100
21	IP-1C	Z	-0.07	-0.07	0 %100
22	IP-1D	Z	0	0	0 %100
23	IP-2A	Z	0	0	0 %100
24	IP-2B	Z	-0.07	-0.07	0 %100
25	IP-2C	Z	-0.07	-0.07	0 %100
26	IP-2D	Z	-0.07	-0.07	0 %100
27	IP-3A	Z	-0.07	-0.07	0 %100
28	IP-3B	Z	0	0	0 %100
29	IP-3C	Z	0	0	0 %100
30	IP-3D	Z	-0.07	-0.07	0 %100
31	INT-1A	Z	-0.03	-0.03	0 %100
32	INT-1B	Z	-0.03	-0.03	0 %100
33	INT-2A	Z	0	0	0 %100
34	INT-2B	Z	0	0	0 %100
35	INT-3A	Z	-0.03	-0.03	0 %100
36	INT-3B	Z	-0.03	-0.03	0 %100
37	MP-1	Z	-0.03	-0.03	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 23 : 90 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
38	MP-2	Z	-0.003	-0.003	0 %100
39	MP-3	Z	-0.003	-0.003	0 %100
40	MP-4	Z	-0.003	-0.003	0 %100
41	MP-5	Z	-0.003	-0.003	0 %100
42	MP-6	Z	-0.003	-0.003	0 %100
43	MP-7	Z	-0.003	-0.003	0 %100
44	MP-8	Z	-0.003	-0.003	0 %100
45	MP-9	Z	-0.003	-0.003	0 %100
46	SRC-1B	Z	-0.004	-0.004	0 %100
47	SRC-2B	Z	-0.004	-0.004	0 %100
48	SRC-3B	Z	0	0	0 %100
49	SRC-1A	Z	-0.006	-0.006	0 %100
50	SRC-1C	Z	0	0	0 %100
51	SRC-2A	Z	0	0	0 %100
52	SRC-2C	Z	-0.006	-0.006	0 %100
53	SRC-3A	Z	-0.006	-0.006	0 %100
54	SRC-3C	Z	-0.006	-0.006	0 %100
55	SA-1	Z	-0.002	-0.002	0 %100
56	SA-2	Z	-0.004	-0.004	0 %100
57	SA-3	Z	-0.002	-0.002	0 %100
58	SR-1	Z	0	0	0 %100
59	SR-2	Z	-0.002	-0.002	0 %100
60	SR-3	Z	-0.002	-0.002	0 %100

Member Distributed Loads (BLC 24 : 120 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	.001	.001	0 %100
2	CP-2B	X	.003	.003	0 %100
3	CP-3B	X	.001	.001	0 %100
4	CP-1A	X	.004	.004	0 %100
5	CP-1C	X	.002	.002	0 %100
6	CP-2A	X	.002	.002	0 %100
7	CP-2C	X	.002	.002	0 %100
8	CP-3A	X	.002	.002	0 %100
9	CP-3C	X	.004	.004	0 %100
10	FFTH	X	.00069	.00069	0 %100
11	SF2-TH	X	.001	.001	0 %100
12	SF3-TH	X	.000565	.000565	0 %100
13	GS-1	X	.000772	.000772	0 %100
14	GS-2	X	.001	.001	0 %100
15	GS-3	X	.001	.001	0 %100
16	GS-4	X	.000689	.000689	0 %100
17	GS-5	X	.000634	.000634	0 %100
18	GS-6	X	.000703	.000703	0 %100
19	IP-1A	X	.004	.004	0 %100
20	IP-1B	X	.002	.002	0 %100
21	IP-1C	X	.002	.002	0 %100
22	IP-1D	X	.002	.002	0 %100
23	IP-2A	X	.002	.002	0 %100
24	IP-2B	X	.004	.004	0 %100
25	IP-2C	X	.004	.004	0 %100
26	IP-2D	X	.002	.002	0 %100
27	IP-3A	X	.002	.002	0 %100
28	IP-3B	X	.002	.002	0 %100
29	IP-3C	X	.002	.002	0 %100
30	IP-3D	X	.004	.004	0 %100



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 Designer : NPD
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Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
31	INT-1A	X	.000849	.000849	0 %100
32	INT-1B	X	.000849	.000849	0 %100
33	INT-2A	X	.000929	.000929	0 %100
34	INT-2B	X	.000929	.000929	0 %100
35	INT-3A	X	.002	.002	0 %100
36	INT-3B	X	.002	.002	0 %100
37	MP-1	X	.001	.001	0 %100
38	MP-2	X	.001	.001	0 %100
39	MP-3	X	.001	.001	0 %100
40	MP-4	X	.001	.001	0 %100
41	MP-5	X	.001	.001	0 %100
42	MP-6	X	.001	.001	0 %100
43	MP-7	X	.001	.001	0 %100
44	MP-8	X	.001	.001	0 %100
45	MP-9	X	.001	.001	0 %100
46	SRC-1B	X	.001	.001	0 %100
47	SRC-2B	X	.002	.002	0 %100
48	SRC-3B	X	.001	.001	0 %100
49	SRC-1A	X	.003	.003	0 %100
50	SRC-1C	X	.002	.002	0 %100
51	SRC-2A	X	.002	.002	0 %100
52	SRC-2C	X	.002	.002	0 %100
53	SRC-3A	X	.002	.002	0 %100
54	SRC-3C	X	.003	.003	0 %100
55	SA-1	X	.002	.002	0 %100
56	SA-2	X	.002	.002	0 %100
57	SA-3	X	0	0	0 %100
58	SR-1	X	.000702	.000702	0 %100
59	SR-2	X	.001	.001	0 %100
60	SR-3	X	.000547	.000547	0 %100
61	CP-1B	Z	-.002	-.002	0 %100
62	CP-2B	Z	-.005	-.005	0 %100
63	CP-3B	Z	-.002	-.002	0 %100
64	CP-1A	Z	-.006	-.006	0 %100
65	CP-1C	Z	-.003	-.003	0 %100
66	CP-2A	Z	-.003	-.003	0 %100
67	CP-2C	Z	-.003	-.003	0 %100
68	CP-3A	Z	-.003	-.003	0 %100
69	CP-3C	Z	-.006	-.006	0 %100
70	FFTH	Z	-.001	-.001	0 %100
71	SF2-TH	Z	-.002	-.002	0 %100
72	SF3-TH	Z	-.001	-.001	0 %100
73	GS-1	Z	-.001	-.001	0 %100
74	GS-2	Z	-.002	-.002	0 %100
75	GS-3	Z	-.002	-.002	0 %100
76	GS-4	Z	-.001	-.001	0 %100
77	GS-5	Z	-.001	-.001	0 %100
78	GS-6	Z	-.001	-.001	0 %100
79	IP-1A	Z	-.007	-.007	0 %100
80	IP-1B	Z	-.003	-.003	0 %100
81	IP-1C	Z	-.003	-.003	0 %100
82	IP-1D	Z	-.003	-.003	0 %100
83	IP-2A	Z	-.003	-.003	0 %100
84	IP-2B	Z	-.007	-.007	0 %100
85	IP-2C	Z	-.007	-.007	0 %100
86	IP-2D	Z	-.004	-.004	0 %100
87	IP-3A	Z	-.004	-.004	0 %100



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Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
88	IP-3B	Z	-0.003	-0.003	0 %100
89	IP-3C	Z	-0.003	-0.003	0 %100
90	IP-3D	Z	-0.007	-0.007	0 %100
91	INT-1A	Z	-0.002	-0.002	0 %100
92	INT-1B	Z	-0.002	-0.002	0 %100
93	INT-2A	Z	-0.001	-0.001	0 %100
94	INT-2B	Z	-0.001	-0.001	0 %100
95	INT-3A	Z	-0.003	-0.003	0 %100
96	INT-3B	Z	-0.003	-0.003	0 %100
97	MP-1	Z	-0.002	-0.002	0 %100
98	MP-2	Z	-0.002	-0.002	0 %100
99	MP-3	Z	-0.002	-0.002	0 %100
100	MP-4	Z	-0.002	-0.002	0 %100
101	MP-5	Z	-0.002	-0.002	0 %100
102	MP-6	Z	-0.002	-0.002	0 %100
103	MP-7	Z	-0.002	-0.002	0 %100
104	MP-8	Z	-0.002	-0.002	0 %100
105	MP-9	Z	-0.002	-0.002	0 %100
106	SRC-1B	Z	-0.002	-0.002	0 %100
107	SRC-2B	Z	-0.004	-0.004	0 %100
108	SRC-3B	Z	-0.002	-0.002	0 %100
109	SRC-1A	Z	-0.006	-0.006	0 %100
110	SRC-1C	Z	-0.003	-0.003	0 %100
111	SRC-2A	Z	-0.003	-0.003	0 %100
112	SRC-2C	Z	-0.003	-0.003	0 %100
113	SRC-3A	Z	-0.003	-0.003	0 %100
114	SRC-3C	Z	-0.006	-0.006	0 %100
115	SA-1	Z	-0.003	-0.003	0 %100
116	SA-2	Z	-0.003	-0.003	0 %100
117	SA-3	Z	0	0	0 %100
118	SR-1	Z	-0.001	-0.001	0 %100
119	SR-2	Z	-0.002	-0.002	0 %100
120	SR-3	Z	-0.001	-0.001	0 %100

Member Distributed Loads (BLC 25 : 135 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	.000935	.000935	0 %100
2	CP-2B	X	.003	.003	0 %100
3	CP-3B	X	.003	.003	0 %100
4	CP-1A	X	.005	.005	0 %100
5	CP-1C	X	.004	.004	0 %100
6	CP-2A	X	.004	.004	0 %100
7	CP-2C	X	.001	.001	0 %100
8	CP-3A	X	.001	.001	0 %100
9	CP-3C	X	.005	.005	0 %100
10	FFTH	X	.001	.001	0 %100
11	SF2-TH	X	.002	.002	0 %100
12	SF3-TH	X	.000414	.000414	0 %100
13	GS-1	X	.002	.002	0 %100
14	GS-2	X	.002	.002	0 %100
15	GS-3	X	.002	.002	0 %100
16	GS-4	X	.000531	.000531	0 %100
17	GS-5	X	.000438	.000438	0 %100
18	GS-6	X	.001	.001	0 %100
19	IP-1A	X	.006	.006	0 %100
20	IP-1B	X	.001	.001	0 %100



Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
21	IP-1C	X	.001	.001	0 %100
22	IP-1D	X	.004	.004	0 %100
23	IP-2A	X	.004	.004	0 %100
24	IP-2B	X	.005	.005	0 %100
25	IP-2C	X	.005	.005	0 %100
26	IP-2D	X	.002	.002	0 %100
27	IP-3A	X	.002	.002	0 %100
28	IP-3B	X	.004	.004	0 %100
29	IP-3C	X	.004	.004	0 %100
30	IP-3D	X	.006	.006	0 %100
31	INT-1A	X	.000621	.000621	0 %100
32	INT-1B	X	.000621	.000621	0 %100
33	INT-2A	X	.002	.002	0 %100
34	INT-2B	X	.002	.002	0 %100
35	INT-3A	X	.002	.002	0 %100
36	INT-3B	X	.002	.002	0 %100
37	MP-1	X	.002	.002	0 %100
38	MP-2	X	.002	.002	0 %100
39	MP-3	X	.002	.002	0 %100
40	MP-4	X	.002	.002	0 %100
41	MP-5	X	.002	.002	0 %100
42	MP-6	X	.002	.002	0 %100
43	MP-7	X	.002	.002	0 %100
44	MP-8	X	.002	.002	0 %100
45	MP-9	X	.002	.002	0 %100
46	SRC-1B	X	.000881	.000881	0 %100
47	SRC-2B	X	.003	.003	0 %100
48	SRC-3B	X	.003	.003	0 %100
49	SRC-1A	X	.005	.005	0 %100
50	SRC-1C	X	.003	.003	0 %100
51	SRC-2A	X	.003	.003	0 %100
52	SRC-2C	X	.001	.001	0 %100
53	SRC-3A	X	.001	.001	0 %100
54	SRC-3C	X	.005	.005	0 %100
55	SA-1	X	.003	.003	0 %100
56	SA-2	X	.002	.002	0 %100
57	SA-3	X	.00075	.00075	0 %100
58	SR-1	X	.001	.001	0 %100
59	SR-2	X	.001	.001	0 %100
60	SR-3	X	.0004	.0004	0 %100
61	CP-1B	Z	-.000982	-.000982	0 %100
62	CP-2B	Z	-.004	-.004	0 %100
63	CP-3B	Z	-.002	-.002	0 %100
64	CP-1A	Z	-.005	-.005	0 %100
65	CP-1C	Z	-.003	-.003	0 %100
66	CP-2A	Z	-.003	-.003	0 %100
67	CP-2C	Z	-.001	-.001	0 %100
68	CP-3A	Z	-.001	-.001	0 %100
69	CP-3C	Z	-.005	-.005	0 %100
70	FFTH	Z	-.001	-.001	0 %100
71	SF2-TH	Z	-.002	-.002	0 %100
72	SF3-TH	Z	-.000481	-.000481	0 %100
73	GS-1	Z	-.001	-.001	0 %100
74	GS-2	Z	-.002	-.002	0 %100
75	GS-3	Z	-.002	-.002	0 %100
76	GS-4	Z	-.00058	-.00058	0 %100
77	GS-5	Z	-.000471	-.000471	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
78	GS-6	Z	-0.01	-0.01	0 %100
79	IP-1A	Z	-0.006	-0.006	0 %100
80	IP-1B	Z	-0.001	-0.001	0 %100
81	IP-1C	Z	-0.001	-0.001	0 %100
82	IP-1D	Z	-0.004	-0.004	0 %100
83	IP-2A	Z	-0.004	-0.004	0 %100
84	IP-2B	Z	-0.005	-0.005	0 %100
85	IP-2C	Z	-0.005	-0.005	0 %100
86	IP-2D	Z	-0.002	-0.002	0 %100
87	IP-3A	Z	-0.002	-0.002	0 %100
88	IP-3B	Z	-0.004	-0.004	0 %100
89	IP-3C	Z	-0.004	-0.004	0 %100
90	IP-3D	Z	-0.006	-0.006	0 %100
91	INT-1A	Z	-0.000665	-0.000665	0 %100
92	INT-1B	Z	-0.000665	-0.000665	0 %100
93	INT-2A	Z	-0.002	-0.002	0 %100
94	INT-2B	Z	-0.002	-0.002	0 %100
95	INT-3A	Z	-0.002	-0.002	0 %100
96	INT-3B	Z	-0.002	-0.002	0 %100
97	MP-1	Z	-0.002	-0.002	0 %100
98	MP-2	Z	-0.002	-0.002	0 %100
99	MP-3	Z	-0.002	-0.002	0 %100
100	MP-4	Z	-0.002	-0.002	0 %100
101	MP-5	Z	-0.002	-0.002	0 %100
102	MP-6	Z	-0.002	-0.002	0 %100
103	MP-7	Z	-0.002	-0.002	0 %100
104	MP-8	Z	-0.002	-0.002	0 %100
105	MP-9	Z	-0.002	-0.002	0 %100
106	SRC-1B	Z	-0.000935	-0.000935	0 %100
107	SRC-2B	Z	-0.003	-0.003	0 %100
108	SRC-3B	Z	-0.002	-0.002	0 %100
109	SRC-1A	Z	-0.005	-0.005	0 %100
110	SRC-1C	Z	-0.003	-0.003	0 %100
111	SRC-2A	Z	-0.003	-0.003	0 %100
112	SRC-2C	Z	-0.001	-0.001	0 %100
113	SRC-3A	Z	-0.001	-0.001	0 %100
114	SRC-3C	Z	-0.005	-0.005	0 %100
115	SA-1	Z	-0.003	-0.003	0 %100
116	SA-2	Z	-0.002	-0.002	0 %100
117	SA-3	Z	-0.000691	-0.000691	0 %100
118	SR-1	Z	-0.001	-0.001	0 %100
119	SR-2	Z	-0.002	-0.002	0 %100
120	SR-3	Z	-0.000484	-0.000484	0 %100

Member Distributed Loads (BLC 26 : 150 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	0	0	%100
2	CP-2B	X	.004	.004	0 %100
3	CP-3B	X	.004	.004	0 %100
4	CP-1A	X	.006	.006	0 %100
5	CP-1C	X	.006	.006	0 %100
6	CP-2A	X	.006	.006	0 %100
7	CP-2C	X	0	0	0 %100
8	CP-3A	X	0	0	0 %100
9	CP-3C	X	.006	.006	0 %100
10	FFTH	X	.002	.002	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
11	SF2-TH	X	.002	.002	0 %100
12	SF3-TH	X	0	0	0 %100
13	GS-1	X	.002	.002	0 %100
14	GS-2	X	.002	.002	0 %100
15	GS-3	X	.002	.002	0 %100
16	GS-4	X	6.2e-5	6.2e-5	0 %100
17	GS-5	X	6.3e-5	6.3e-5	0 %100
18	GS-6	X	.002	.002	0 %100
19	IP-1A	X	.006	.006	0 %100
20	IP-1B	X	0	0	0 %100
21	IP-1C	X	0	0	0 %100
22	IP-1D	X	.006	.006	0 %100
23	IP-2A	X	.006	.006	0 %100
24	IP-2B	X	.006	.006	0 %100
25	IP-2C	X	.006	.006	0 %100
26	IP-2D	X	0	0	0 %100
27	IP-3A	X	0	0	0 %100
28	IP-3B	X	.006	.006	0 %100
29	IP-3C	X	.006	.006	0 %100
30	IP-3D	X	.006	.006	0 %100
31	INT-1A	X	0	0	0 %100
32	INT-1B	X	0	0	0 %100
33	INT-2A	X	.003	.003	0 %100
34	INT-2B	X	.003	.003	0 %100
35	INT-3A	X	.003	.003	0 %100
36	INT-3B	X	.003	.003	0 %100
37	MP-1	X	.002	.002	0 %100
38	MP-2	X	.002	.002	0 %100
39	MP-3	X	.002	.002	0 %100
40	MP-4	X	.002	.002	0 %100
41	MP-5	X	.002	.002	0 %100
42	MP-6	X	.002	.002	0 %100
43	MP-7	X	.002	.002	0 %100
44	MP-8	X	.002	.002	0 %100
45	MP-9	X	.002	.002	0 %100
46	SRC-1B	X	0	0	0 %100
47	SRC-2B	X	.004	.004	0 %100
48	SRC-3B	X	.004	.004	0 %100
49	SRC-1A	X	.005	.005	0 %100
50	SRC-1C	X	.005	.005	0 %100
51	SRC-2A	X	.005	.005	0 %100
52	SRC-2C	X	0	0	0 %100
53	SRC-3A	X	0	0	0 %100
54	SRC-3C	X	.005	.005	0 %100
55	SA-1	X	.004	.004	0 %100
56	SA-2	X	.002	.002	0 %100
57	SA-3	X	.002	.002	0 %100
58	SR-1	X	.002	.002	0 %100
59	SR-2	X	.002	.002	0 %100
60	SR-3	X	0	0	0 %100
61	CP-1B	Z	0	0	0 %100
62	CP-2B	Z	-.002	-.002	0 %100
63	CP-3B	Z	-.002	-.002	0 %100
64	CP-1A	Z	-.003	-.003	0 %100
65	CP-1C	Z	-.003	-.003	0 %100
66	CP-2A	Z	-.003	-.003	0 %100
67	CP-2C	Z	0	0	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
68	CP-3A	Z	0	0	%100	
69	CP-3C	Z	-0.003	-0.003	0	%100
70	FFTH	Z	-0.001	-0.001	0	%100
71	SF2-TH	Z	-0.001	-0.001	0	%100
72	SF3-TH	Z	0	0	0	%100
73	GS-1	Z	-0.001	-0.001	0	%100
74	GS-2	Z	-0.001	-0.001	0	%100
75	GS-3	Z	-0.001	-0.001	0	%100
76	GS-4	Z	-3.9e-5	-3.9e-5	0	%100
77	GS-5	Z	-3.9e-5	-3.9e-5	0	%100
78	GS-6	Z	-0.001	-0.001	0	%100
79	IP-1A	Z	-0.004	-0.004	0	%100
80	IP-1B	Z	0	0	0	%100
81	IP-1C	Z	0	0	0	%100
82	IP-1D	Z	-0.003	-0.003	0	%100
83	IP-2A	Z	-0.003	-0.003	0	%100
84	IP-2B	Z	-0.003	-0.003	0	%100
85	IP-2C	Z	-0.003	-0.003	0	%100
86	IP-2D	Z	0	0	0	%100
87	IP-3A	Z	0	0	0	%100
88	IP-3B	Z	-0.003	-0.003	0	%100
89	IP-3C	Z	-0.003	-0.003	0	%100
90	IP-3D	Z	-0.004	-0.004	0	%100
91	INT-1A	Z	0	0	0	%100
92	INT-1B	Z	0	0	0	%100
93	INT-2A	Z	-0.001	-0.001	0	%100
94	INT-2B	Z	-0.001	-0.001	0	%100
95	INT-3A	Z	-0.002	-0.002	0	%100
96	INT-3B	Z	-0.002	-0.002	0	%100
97	MP-1	Z	-0.001	-0.001	0	%100
98	MP-2	Z	-0.001	-0.001	0	%100
99	MP-3	Z	-0.001	-0.001	0	%100
100	MP-4	Z	-0.001	-0.001	0	%100
101	MP-5	Z	-0.001	-0.001	0	%100
102	MP-6	Z	-0.001	-0.001	0	%100
103	MP-7	Z	-0.001	-0.001	0	%100
104	MP-8	Z	-0.001	-0.001	0	%100
105	MP-9	Z	-0.001	-0.001	0	%100
106	SRC-1B	Z	0	0	0	%100
107	SRC-2B	Z	-0.002	-0.002	0	%100
108	SRC-3B	Z	-0.002	-0.002	0	%100
109	SRC-1A	Z	-0.003	-0.003	0	%100
110	SRC-1C	Z	-0.003	-0.003	0	%100
111	SRC-2A	Z	-0.003	-0.003	0	%100
112	SRC-2C	Z	0	0	0	%100
113	SRC-3A	Z	0	0	0	%100
114	SRC-3C	Z	-0.003	-0.003	0	%100
115	SA-1	Z	-0.002	-0.002	0	%100
116	SA-2	Z	-0.001	-0.001	0	%100
117	SA-3	Z	-0.000944	-0.000944	0	%100
118	SR-1	Z	-0.001	-0.001	0	%100
119	SR-2	Z	-0.001	-0.001	0	%100
120	SR-3	Z	0	0	0	%100

Member Distributed Loads (BLC 27 : 180 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
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Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 27 : 180 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
1	CP-1B	X	.005	.005	0	%100
2	CP-2B	X	.005	.005	0	%100
3	CP-3B	X	.005	.005	0	%100
4	CP-1A	X	.007	.007	0	%100
5	CP-1C	X	.007	.007	0	%100
6	CP-2A	X	.007	.007	0	%100
7	CP-2C	X	.007	.007	0	%100
8	CP-3A	X	.007	.007	0	%100
9	CP-3C	X	.007	.007	0	%100
10	FFTH	X	.003	.003	0	%100
11	SF2-TH	X	.002	.002	0	%100
12	SF3-TH	X	.002	.002	0	%100
13	GS-1	X	.003	.003	0	%100
14	GS-2	X	.003	.003	0	%100
15	GS-3	X	.003	.003	0	%100
16	GS-4	X	.003	.003	0	%100
17	GS-5	X	.003	.003	0	%100
18	GS-6	X	.003	.003	0	%100
19	IP-1A	X	.009	.009	0	%100
20	IP-1B	X	.008	.008	0	%100
21	IP-1C	X	.008	.008	0	%100
22	IP-1D	X	.009	.009	0	%100
23	IP-2A	X	.009	.009	0	%100
24	IP-2B	X	.008	.008	0	%100
25	IP-2C	X	.008	.008	0	%100
26	IP-2D	X	.009	.009	0	%100
27	IP-3A	X	.009	.009	0	%100
28	IP-3B	X	.008	.008	0	%100
29	IP-3C	X	.008	.008	0	%100
30	IP-3D	X	.009	.009	0	%100
31	INT-1A	X	.003	.003	0	%100
32	INT-1B	X	.003	.003	0	%100
33	INT-2A	X	.004	.004	0	%100
34	INT-2B	X	.004	.004	0	%100
35	INT-3A	X	.003	.003	0	%100
36	INT-3B	X	.003	.003	0	%100
37	MP-1	X	.002	.002	0	%100
38	MP-2	X	.002	.002	0	%100
39	MP-3	X	.002	.002	0	%100
40	MP-4	X	.002	.002	0	%100
41	MP-5	X	.002	.002	0	%100
42	MP-6	X	.002	.002	0	%100
43	MP-7	X	.002	.002	0	%100
44	MP-8	X	.002	.002	0	%100
45	MP-9	X	.002	.002	0	%100
46	SRC-1B	X	.005	.005	0	%100
47	SRC-2B	X	.005	.005	0	%100
48	SRC-3B	X	.005	.005	0	%100
49	SRC-1A	X	.007	.007	0	%100
50	SRC-1C	X	.007	.007	0	%100
51	SRC-2A	X	.007	.007	0	%100
52	SRC-2C	X	.007	.007	0	%100
53	SRC-3A	X	.007	.007	0	%100
54	SRC-3C	X	.007	.007	0	%100
55	SA-1	X	.004	.004	0	%100
56	SA-2	X	.004	.004	0	%100
57	SA-3	X	.004	.004	0	%100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 27 : 180 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
58	SR-1	X	.003	.003	0 %100
59	SR-2	X	.002	.002	0 %100
60	SR-3	X	.002	.002	0 %100

Member Distributed Loads (BLC 28 : 210 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	.004	.004	0 %100
2	CP-2B	X	0	0	0 %100
3	CP-3B	X	.004	.004	0 %100
4	CP-1A	X	0	0	0 %100
5	CP-1C	X	.006	.006	0 %100
6	CP-2A	X	.006	.006	0 %100
7	CP-2C	X	.006	.006	0 %100
8	CP-3A	X	.006	.006	0 %100
9	CP-3C	X	0	0	0 %100
10	FFTH	X	.002	.002	0 %100
11	SF2-TH	X	0	0	0 %100
12	SF3-TH	X	.002	.002	0 %100
13	GS-1	X	.002	.002	0 %100
14	GS-2	X	6.3e-5	6.3e-5	0 %100
15	GS-3	X	6.2e-5	6.2e-5	0 %100
16	GS-4	X	.002	.002	0 %100
17	GS-5	X	.002	.002	0 %100
18	GS-6	X	.002	.002	0 %100
19	IP-1A	X	0	0	0 %100
20	IP-1B	X	.006	.006	0 %100
21	IP-1C	X	.006	.006	0 %100
22	IP-1D	X	.006	.006	0 %100
23	IP-2A	X	.006	.006	0 %100
24	IP-2B	X	0	0	0 %100
25	IP-2C	X	0	0	0 %100
26	IP-2D	X	.006	.006	0 %100
27	IP-3A	X	.006	.006	0 %100
28	IP-3B	X	.006	.006	0 %100
29	IP-3C	X	.006	.006	0 %100
30	IP-3D	X	0	0	0 %100
31	INT-1A	X	.003	.003	0 %100
32	INT-1B	X	.003	.003	0 %100
33	INT-2A	X	.003	.003	0 %100
34	INT-2B	X	.003	.003	0 %100
35	INT-3A	X	0	0	0 %100
36	INT-3B	X	0	0	0 %100
37	MP-1	X	.002	.002	0 %100
38	MP-2	X	.002	.002	0 %100
39	MP-3	X	.002	.002	0 %100
40	MP-4	X	.002	.002	0 %100
41	MP-5	X	.002	.002	0 %100
42	MP-6	X	.002	.002	0 %100
43	MP-7	X	.002	.002	0 %100
44	MP-8	X	.002	.002	0 %100
45	MP-9	X	.002	.002	0 %100
46	SRC-1B	X	.004	.004	0 %100
47	SRC-2B	X	0	0	0 %100
48	SRC-3B	X	.004	.004	0 %100
49	SRC-1A	X	0	0	0 %100
50	SRC-1C	X	.005	.005	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
51	SRC-2A	X	.005	.005	0 %100
52	SRC-2C	X	.005	.005	0 %100
53	SRC-3A	X	.005	.005	0 %100
54	SRC-3C	X	0	0	0 %100
55	SA-1	X	.002	.002	0 %100
56	SA-2	X	.002	.002	0 %100
57	SA-3	X	.004	.004	0 %100
58	SR-1	X	.002	.002	0 %100
59	SR-2	X	0	0	0 %100
60	SR-3	X	.002	.002	0 %100
61	CP-1B	Z	.002	.002	0 %100
62	CP-2B	Z	0	0	0 %100
63	CP-3B	Z	.002	.002	0 %100
64	CP-1A	Z	0	0	0 %100
65	CP-1C	Z	.003	.003	0 %100
66	CP-2A	Z	.003	.003	0 %100
67	CP-2C	Z	.003	.003	0 %100
68	CP-3A	Z	.003	.003	0 %100
69	CP-3C	Z	0	0	0 %100
70	FFTH	Z	.001	.001	0 %100
71	SF2-TH	Z	0	0	0 %100
72	SF3-TH	Z	.001	.001	0 %100
73	GS-1	Z	.001	.001	0 %100
74	GS-2	Z	3.9e-5	3.9e-5	0 %100
75	GS-3	Z	3.9e-5	3.9e-5	0 %100
76	GS-4	Z	.001	.001	0 %100
77	GS-5	Z	.001	.001	0 %100
78	GS-6	Z	.001	.001	0 %100
79	IP-1A	Z	0	0	0 %100
80	IP-1B	Z	.003	.003	0 %100
81	IP-1C	Z	.003	.003	0 %100
82	IP-1D	Z	.003	.003	0 %100
83	IP-2A	Z	.003	.003	0 %100
84	IP-2B	Z	0	0	0 %100
85	IP-2C	Z	0	0	0 %100
86	IP-2D	Z	.004	.004	0 %100
87	IP-3A	Z	.004	.004	0 %100
88	IP-3B	Z	.003	.003	0 %100
89	IP-3C	Z	.003	.003	0 %100
90	IP-3D	Z	0	0	0 %100
91	INT-1A	Z	.002	.002	0 %100
92	INT-1B	Z	.002	.002	0 %100
93	INT-2A	Z	.001	.001	0 %100
94	INT-2B	Z	.001	.001	0 %100
95	INT-3A	Z	0	0	0 %100
96	INT-3B	Z	0	0	0 %100
97	MP-1	Z	.001	.001	0 %100
98	MP-2	Z	.001	.001	0 %100
99	MP-3	Z	.001	.001	0 %100
100	MP-4	Z	.001	.001	0 %100
101	MP-5	Z	.001	.001	0 %100
102	MP-6	Z	.001	.001	0 %100
103	MP-7	Z	.001	.001	0 %100
104	MP-8	Z	.001	.001	0 %100
105	MP-9	Z	.001	.001	0 %100
106	SRC-1B	Z	.002	.002	0 %100
107	SRC-2B	Z	0	0	0 %100



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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
108	SRC-3B	Z	.002	.002	0	%100
109	SRC-1A	Z	0	0	0	%100
110	SRC-1C	Z	.003	.003	0	%100
111	SRC-2A	Z	.003	.003	0	%100
112	SRC-2C	Z	.003	.003	0	%100
113	SRC-3A	Z	.003	.003	0	%100
114	SRC-3C	Z	0	0	0	%100
115	SA-1	Z	.000944	.000944	0	%100
116	SA-2	Z	.001	.001	0	%100
117	SA-3	Z	.002	.002	0	%100
118	SR-1	Z	.001	.001	0	%100
119	SR-2	Z	0	0	0	%100
120	SR-3	Z	.001	.001	0	%100

Member Distributed Loads (BLC 29 : 225 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
1	CP-1B	X	.003	.003	0	%100
2	CP-2B	X	.000935	.000935	0	%100
3	CP-3B	X	.003	.003	0	%100
4	CP-1A	X	.001	.001	0	%100
5	CP-1C	X	.004	.004	0	%100
6	CP-2A	X	.004	.004	0	%100
7	CP-2C	X	.005	.005	0	%100
8	CP-3A	X	.005	.005	0	%100
9	CP-3C	X	.001	.001	0	%100
10	FFTH	X	.001	.001	0	%100
11	SF2-TH	X	.000414	.000414	0	%100
12	SF3-TH	X	.002	.002	0	%100
13	GS-1	X	.001	.001	0	%100
14	GS-2	X	.000438	.000438	0	%100
15	GS-3	X	.000531	.000531	0	%100
16	GS-4	X	.002	.002	0	%100
17	GS-5	X	.002	.002	0	%100
18	GS-6	X	.002	.002	0	%100
19	IP-1A	X	.002	.002	0	%100
20	IP-1B	X	.005	.005	0	%100
21	IP-1C	X	.005	.005	0	%100
22	IP-1D	X	.004	.004	0	%100
23	IP-2A	X	.004	.004	0	%100
24	IP-2B	X	.001	.001	0	%100
25	IP-2C	X	.001	.001	0	%100
26	IP-2D	X	.006	.006	0	%100
27	IP-3A	X	.006	.006	0	%100
28	IP-3B	X	.004	.004	0	%100
29	IP-3C	X	.004	.004	0	%100
30	IP-3D	X	.002	.002	0	%100
31	INT-1A	X	.002	.002	0	%100
32	INT-1B	X	.002	.002	0	%100
33	INT-2A	X	.002	.002	0	%100
34	INT-2B	X	.002	.002	0	%100
35	INT-3A	X	.000621	.000621	0	%100
36	INT-3B	X	.000621	.000621	0	%100
37	MP-1	X	.002	.002	0	%100
38	MP-2	X	.002	.002	0	%100
39	MP-3	X	.002	.002	0	%100
40	MP-4	X	.002	.002	0	%100



Company : Tower Engineering Professionals
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Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]	
41	MP-5	X	.002	.002	0	%100
42	MP-6	X	.002	.002	0	%100
43	MP-7	X	.002	.002	0	%100
44	MP-8	X	.002	.002	0	%100
45	MP-9	X	.002	.002	0	%100
46	SRC-1B	X	.003	.003	0	%100
47	SRC-2B	X	.000881	.000881	0	%100
48	SRC-3B	X	.003	.003	0	%100
49	SRC-1A	X	.001	.001	0	%100
50	SRC-1C	X	.003	.003	0	%100
51	SRC-2A	X	.003	.003	0	%100
52	SRC-2C	X	.005	.005	0	%100
53	SRC-3A	X	.005	.005	0	%100
54	SRC-3C	X	.001	.001	0	%100
55	SA-1	X	.00075	.00075	0	%100
56	SA-2	X	.002	.002	0	%100
57	SA-3	X	.003	.003	0	%100
58	SR-1	X	.001	.001	0	%100
59	SR-2	X	.0004	.0004	0	%100
60	SR-3	X	.001	.001	0	%100
61	CP-1B	Z	.004	.004	0	%100
62	CP-2B	Z	.000982	.000982	0	%100
63	CP-3B	Z	.002	.002	0	%100
64	CP-1A	Z	.001	.001	0	%100
65	CP-1C	Z	.003	.003	0	%100
66	CP-2A	Z	.003	.003	0	%100
67	CP-2C	Z	.005	.005	0	%100
68	CP-3A	Z	.005	.005	0	%100
69	CP-3C	Z	.001	.001	0	%100
70	FFTH	Z	.001	.001	0	%100
71	SF2-TH	Z	.000481	.000481	0	%100
72	SF3-TH	Z	.002	.002	0	%100
73	GS-1	Z	.001	.001	0	%100
74	GS-2	Z	.000471	.000471	0	%100
75	GS-3	Z	.00058	.00058	0	%100
76	GS-4	Z	.002	.002	0	%100
77	GS-5	Z	.002	.002	0	%100
78	GS-6	Z	.001	.001	0	%100
79	IP-1A	Z	.002	.002	0	%100
80	IP-1B	Z	.005	.005	0	%100
81	IP-1C	Z	.005	.005	0	%100
82	IP-1D	Z	.004	.004	0	%100
83	IP-2A	Z	.004	.004	0	%100
84	IP-2B	Z	.001	.001	0	%100
85	IP-2C	Z	.001	.001	0	%100
86	IP-2D	Z	.006	.006	0	%100
87	IP-3A	Z	.006	.006	0	%100
88	IP-3B	Z	.004	.004	0	%100
89	IP-3C	Z	.004	.004	0	%100
90	IP-3D	Z	.002	.002	0	%100
91	INT-1A	Z	.002	.002	0	%100
92	INT-1B	Z	.002	.002	0	%100
93	INT-2A	Z	.002	.002	0	%100
94	INT-2B	Z	.002	.002	0	%100
95	INT-3A	Z	.000665	.000665	0	%100
96	INT-3B	Z	.000665	.000665	0	%100
97	MP-1	Z	.002	.002	0	%100



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Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
98	MP-2	Z	.002	.002	0 %100
99	MP-3	Z	.002	.002	0 %100
100	MP-4	Z	.002	.002	0 %100
101	MP-5	Z	.002	.002	0 %100
102	MP-6	Z	.002	.002	0 %100
103	MP-7	Z	.002	.002	0 %100
104	MP-8	Z	.002	.002	0 %100
105	MP-9	Z	.002	.002	0 %100
106	SRC-1B	Z	.003	.003	0 %100
107	SRC-2B	Z	.000935	.000935	0 %100
108	SRC-3B	Z	.002	.002	0 %100
109	SRC-1A	Z	.001	.001	0 %100
110	SRC-1C	Z	.003	.003	0 %100
111	SRC-2A	Z	.003	.003	0 %100
112	SRC-2C	Z	.005	.005	0 %100
113	SRC-3A	Z	.005	.005	0 %100
114	SRC-3C	Z	.001	.001	0 %100
115	SA-1	Z	.000691	.000691	0 %100
116	SA-2	Z	.002	.002	0 %100
117	SA-3	Z	.003	.003	0 %100
118	SR-1	Z	.001	.001	0 %100
119	SR-2	Z	.000484	.000484	0 %100
120	SR-3	Z	.002	.002	0 %100

Member Distributed Loads (BLC 30 : 240 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	.003	.003	0 %100
2	CP-2B	X	.001	.001	0 %100
3	CP-3B	X	.001	.001	0 %100
4	CP-1A	X	.002	.002	0 %100
5	CP-1C	X	.002	.002	0 %100
6	CP-2A	X	.002	.002	0 %100
7	CP-2C	X	.004	.004	0 %100
8	CP-3A	X	.004	.004	0 %100
9	CP-3C	X	.002	.002	0 %100
10	FFTH	X	.00069	.00069	0 %100
11	SF2-TH	X	.000565	.000565	0 %100
12	SF3-TH	X	.001	.001	0 %100
13	GS-1	X	.000703	.000703	0 %100
14	GS-2	X	.000634	.000634	0 %100
15	GS-3	X	.000689	.000689	0 %100
16	GS-4	X	.001	.001	0 %100
17	GS-5	X	.001	.001	0 %100
18	GS-6	X	.000772	.000772	0 %100
19	IP-1A	X	.002	.002	0 %100
20	IP-1B	X	.004	.004	0 %100
21	IP-1C	X	.004	.004	0 %100
22	IP-1D	X	.002	.002	0 %100
23	IP-2A	X	.002	.002	0 %100
24	IP-2B	X	.002	.002	0 %100
25	IP-2C	X	.002	.002	0 %100
26	IP-2D	X	.004	.004	0 %100
27	IP-3A	X	.004	.004	0 %100
28	IP-3B	X	.002	.002	0 %100
29	IP-3C	X	.002	.002	0 %100
30	IP-3D	X	.002	.002	0 %100



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Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
31	INT-1A	X	.002	.002	0 %100
32	INT-1B	X	.002	.002	0 %100
33	INT-2A	X	.000929	.000929	0 %100
34	INT-2B	X	.000929	.000929	0 %100
35	INT-3A	X	.000849	.000849	0 %100
36	INT-3B	X	.000849	.000849	0 %100
37	MP-1	X	.001	.001	0 %100
38	MP-2	X	.001	.001	0 %100
39	MP-3	X	.001	.001	0 %100
40	MP-4	X	.001	.001	0 %100
41	MP-5	X	.001	.001	0 %100
42	MP-6	X	.001	.001	0 %100
43	MP-7	X	.001	.001	0 %100
44	MP-8	X	.001	.001	0 %100
45	MP-9	X	.001	.001	0 %100
46	SRC-1B	X	.002	.002	0 %100
47	SRC-2B	X	.001	.001	0 %100
48	SRC-3B	X	.001	.001	0 %100
49	SRC-1A	X	.002	.002	0 %100
50	SRC-1C	X	.002	.002	0 %100
51	SRC-2A	X	.002	.002	0 %100
52	SRC-2C	X	.003	.003	0 %100
53	SRC-3A	X	.003	.003	0 %100
54	SRC-3C	X	.002	.002	0 %100
55	SA-1	X	0	0	0 %100
56	SA-2	X	.002	.002	0 %100
57	SA-3	X	.002	.002	0 %100
58	SR-1	X	.000702	.000702	0 %100
59	SR-2	X	.000547	.000547	0 %100
60	SR-3	X	.001	.001	0 %100
61	CP-1B	Z	.005	.005	0 %100
62	CP-2B	Z	.002	.002	0 %100
63	CP-3B	Z	.002	.002	0 %100
64	CP-1A	Z	.003	.003	0 %100
65	CP-1C	Z	.003	.003	0 %100
66	CP-2A	Z	.003	.003	0 %100
67	CP-2C	Z	.006	.006	0 %100
68	CP-3A	Z	.006	.006	0 %100
69	CP-3C	Z	.003	.003	0 %100
70	FFTH	Z	.001	.001	0 %100
71	SF2-TH	Z	.001	.001	0 %100
72	SF3-TH	Z	.002	.002	0 %100
73	GS-1	Z	.001	.001	0 %100
74	GS-2	Z	.001	.001	0 %100
75	GS-3	Z	.001	.001	0 %100
76	GS-4	Z	.002	.002	0 %100
77	GS-5	Z	.002	.002	0 %100
78	GS-6	Z	.001	.001	0 %100
79	IP-1A	Z	.004	.004	0 %100
80	IP-1B	Z	.007	.007	0 %100
81	IP-1C	Z	.007	.007	0 %100
82	IP-1D	Z	.003	.003	0 %100
83	IP-2A	Z	.003	.003	0 %100
84	IP-2B	Z	.003	.003	0 %100
85	IP-2C	Z	.003	.003	0 %100
86	IP-2D	Z	.007	.007	0 %100
87	IP-3A	Z	.007	.007	0 %100



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Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location[ft.%]	
88	IP-3B	Z	.003	.003	0	%100
89	IP-3C	Z	.003	.003	0	%100
90	IP-3D	Z	.004	.004	0	%100
91	INT-1A	Z	.003	.003	0	%100
92	INT-1B	Z	.003	.003	0	%100
93	INT-2A	Z	.001	.001	0	%100
94	INT-2B	Z	.001	.001	0	%100
95	INT-3A	Z	.002	.002	0	%100
96	INT-3B	Z	.002	.002	0	%100
97	MP-1	Z	.002	.002	0	%100
98	MP-2	Z	.002	.002	0	%100
99	MP-3	Z	.002	.002	0	%100
100	MP-4	Z	.002	.002	0	%100
101	MP-5	Z	.002	.002	0	%100
102	MP-6	Z	.002	.002	0	%100
103	MP-7	Z	.002	.002	0	%100
104	MP-8	Z	.002	.002	0	%100
105	MP-9	Z	.002	.002	0	%100
106	SRC-1B	Z	.004	.004	0	%100
107	SRC-2B	Z	.002	.002	0	%100
108	SRC-3B	Z	.002	.002	0	%100
109	SRC-1A	Z	.003	.003	0	%100
110	SRC-1C	Z	.003	.003	0	%100
111	SRC-2A	Z	.003	.003	0	%100
112	SRC-2C	Z	.006	.006	0	%100
113	SRC-3A	Z	.006	.006	0	%100
114	SRC-3C	Z	.003	.003	0	%100
115	SA-1	Z	0	0	0	%100
116	SA-2	Z	.003	.003	0	%100
117	SA-3	Z	.003	.003	0	%100
118	SR-1	Z	.001	.001	0	%100
119	SR-2	Z	.001	.001	0	%100
120	SR-3	Z	.002	.002	0	%100

Member Distributed Loads (BLC 31 : 270 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location[ft.%]	
1	CP-1B	Z	.005	.005	0	%100
2	CP-2B	Z	.005	.005	0	%100
3	CP-3B	Z	0	0	0	%100
4	CP-1A	Z	.006	.006	0	%100
5	CP-1C	Z	0	0	0	%100
6	CP-2A	Z	0	0	0	%100
7	CP-2C	Z	.006	.006	0	%100
8	CP-3A	Z	.006	.006	0	%100
9	CP-3C	Z	.006	.006	0	%100
10	FFTH	Z	0	0	0	%100
11	SF2-TH	Z	.002	.002	0	%100
12	SF3-TH	Z	.002	.002	0	%100
13	GS-1	Z	6.9e-5	6.9e-5	0	%100
14	GS-2	Z	.002	.002	0	%100
15	GS-3	Z	.003	.003	0	%100
16	GS-4	Z	.003	.003	0	%100
17	GS-5	Z	.002	.002	0	%100
18	GS-6	Z	6.9e-5	6.9e-5	0	%100
19	IP-1A	Z	.007	.007	0	%100
20	IP-1B	Z	.007	.007	0	%100



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Member Distributed Loads (BLC 31 : 270 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location[ft.%]	
21	IP-1C	Z	.007	.007	0	%100
22	IP-1D	Z	0	0	0	%100
23	IP-2A	Z	0	0	0	%100
24	IP-2B	Z	.007	.007	0	%100
25	IP-2C	Z	.007	.007	0	%100
26	IP-2D	Z	.007	.007	0	%100
27	IP-3A	Z	.007	.007	0	%100
28	IP-3B	Z	0	0	0	%100
29	IP-3C	Z	0	0	0	%100
30	IP-3D	Z	.007	.007	0	%100
31	INT-1A	Z	.003	.003	0	%100
32	INT-1B	Z	.003	.003	0	%100
33	INT-2A	Z	0	0	0	%100
34	INT-2B	Z	0	0	0	%100
35	INT-3A	Z	.003	.003	0	%100
36	INT-3B	Z	.003	.003	0	%100
37	MP-1	Z	.003	.003	0	%100
38	MP-2	Z	.003	.003	0	%100
39	MP-3	Z	.003	.003	0	%100
40	MP-4	Z	.003	.003	0	%100
41	MP-5	Z	.003	.003	0	%100
42	MP-6	Z	.003	.003	0	%100
43	MP-7	Z	.003	.003	0	%100
44	MP-8	Z	.003	.003	0	%100
45	MP-9	Z	.003	.003	0	%100
46	SRC-1B	Z	.004	.004	0	%100
47	SRC-2B	Z	.004	.004	0	%100
48	SRC-3B	Z	0	0	0	%100
49	SRC-1A	Z	.006	.006	0	%100
50	SRC-1C	Z	0	0	0	%100
51	SRC-2A	Z	0	0	0	%100
52	SRC-2C	Z	.006	.006	0	%100
53	SRC-3A	Z	.006	.006	0	%100
54	SRC-3C	Z	.006	.006	0	%100
55	SA-1	Z	.002	.002	0	%100
56	SA-2	Z	.004	.004	0	%100
57	SA-3	Z	.002	.002	0	%100
58	SR-1	Z	0	0	0	%100
59	SR-2	Z	.002	.002	0	%100
60	SR-3	Z	.002	.002	0	%100

Member Distributed Loads (BLC 32 : 300 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Loc...	End Location[ft.%]	
1	CP-1B	X	-.001	-.001	0	%100
2	CP-2B	X	-.003	-.003	0	%100
3	CP-3B	X	-.001	-.001	0	%100
4	CP-1A	X	-.004	-.004	0	%100
5	CP-1C	X	-.002	-.002	0	%100
6	CP-2A	X	-.002	-.002	0	%100
7	CP-2C	X	-.002	-.002	0	%100
8	CP-3A	X	-.002	-.002	0	%100
9	CP-3C	X	-.004	-.004	0	%100
10	FFTH	X	-.00069	-.00069	0	%100
11	SF2-TH	X	-.001	-.001	0	%100
12	SF3-TH	X	-.000565	-.000565	0	%100
13	GS-1	X	-.000772	-.000772	0	%100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
14	GS-2	X	-0.01	-0.01	0 %100
15	GS-3	X	-0.01	-0.01	0 %100
16	GS-4	X	-0.00689	-0.00689	0 %100
17	GS-5	X	-0.00634	-0.00634	0 %100
18	GS-6	X	-0.00703	-0.00703	0 %100
19	IP-1A	X	-0.04	-0.04	0 %100
20	IP-1B	X	-0.02	-0.02	0 %100
21	IP-1C	X	-0.02	-0.02	0 %100
22	IP-1D	X	-0.02	-0.02	0 %100
23	IP-2A	X	-0.02	-0.02	0 %100
24	IP-2B	X	-0.04	-0.04	0 %100
25	IP-2C	X	-0.04	-0.04	0 %100
26	IP-2D	X	-0.02	-0.02	0 %100
27	IP-3A	X	-0.02	-0.02	0 %100
28	IP-3B	X	-0.02	-0.02	0 %100
29	IP-3C	X	-0.02	-0.02	0 %100
30	IP-3D	X	-0.04	-0.04	0 %100
31	INT-1A	X	-0.00849	-0.00849	0 %100
32	INT-1B	X	-0.00849	-0.00849	0 %100
33	INT-2A	X	-0.00929	-0.00929	0 %100
34	INT-2B	X	-0.00929	-0.00929	0 %100
35	INT-3A	X	-0.02	-0.02	0 %100
36	INT-3B	X	-0.02	-0.02	0 %100
37	MP-1	X	-0.01	-0.01	0 %100
38	MP-2	X	-0.01	-0.01	0 %100
39	MP-3	X	-0.01	-0.01	0 %100
40	MP-4	X	-0.01	-0.01	0 %100
41	MP-5	X	-0.01	-0.01	0 %100
42	MP-6	X	-0.01	-0.01	0 %100
43	MP-7	X	-0.01	-0.01	0 %100
44	MP-8	X	-0.01	-0.01	0 %100
45	MP-9	X	-0.01	-0.01	0 %100
46	SRC-1B	X	-0.01	-0.01	0 %100
47	SRC-2B	X	-0.02	-0.02	0 %100
48	SRC-3B	X	-0.01	-0.01	0 %100
49	SRC-1A	X	-0.03	-0.03	0 %100
50	SRC-1C	X	-0.02	-0.02	0 %100
51	SRC-2A	X	-0.02	-0.02	0 %100
52	SRC-2C	X	-0.02	-0.02	0 %100
53	SRC-3A	X	-0.02	-0.02	0 %100
54	SRC-3C	X	-0.03	-0.03	0 %100
55	SA-1	X	-0.02	-0.02	0 %100
56	SA-2	X	-0.02	-0.02	0 %100
57	SA-3	X	0	0	0 %100
58	SR-1	X	-0.00702	-0.00702	0 %100
59	SR-2	X	-0.01	-0.01	0 %100
60	SR-3	X	-0.00547	-0.00547	0 %100
61	CP-1B	Z	.002	.002	0 %100
62	CP-2B	Z	.005	.005	0 %100
63	CP-3B	Z	.002	.002	0 %100
64	CP-1A	Z	.006	.006	0 %100
65	CP-1C	Z	.003	.003	0 %100
66	CP-2A	Z	.003	.003	0 %100
67	CP-2C	Z	.003	.003	0 %100
68	CP-3A	Z	.003	.003	0 %100
69	CP-3C	Z	.006	.006	0 %100
70	FFTH	Z	.001	.001	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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 Model Name : 283420 - Stoneybrook RD CT

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Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
71	SF2-TH	Z	.002	.002	0 %100
72	SF3-TH	Z	.001	.001	0 %100
73	GS-1	Z	.001	.001	0 %100
74	GS-2	Z	.002	.002	0 %100
75	GS-3	Z	.002	.002	0 %100
76	GS-4	Z	.001	.001	0 %100
77	GS-5	Z	.001	.001	0 %100
78	GS-6	Z	.001	.001	0 %100
79	IP-1A	Z	.007	.007	0 %100
80	IP-1B	Z	.003	.003	0 %100
81	IP-1C	Z	.003	.003	0 %100
82	IP-1D	Z	.003	.003	0 %100
83	IP-2A	Z	.003	.003	0 %100
84	IP-2B	Z	.007	.007	0 %100
85	IP-2C	Z	.007	.007	0 %100
86	IP-2D	Z	.004	.004	0 %100
87	IP-3A	Z	.004	.004	0 %100
88	IP-3B	Z	.003	.003	0 %100
89	IP-3C	Z	.003	.003	0 %100
90	IP-3D	Z	.007	.007	0 %100
91	INT-1A	Z	.002	.002	0 %100
92	INT-1B	Z	.002	.002	0 %100
93	INT-2A	Z	.001	.001	0 %100
94	INT-2B	Z	.001	.001	0 %100
95	INT-3A	Z	.003	.003	0 %100
96	INT-3B	Z	.003	.003	0 %100
97	MP-1	Z	.002	.002	0 %100
98	MP-2	Z	.002	.002	0 %100
99	MP-3	Z	.002	.002	0 %100
100	MP-4	Z	.002	.002	0 %100
101	MP-5	Z	.002	.002	0 %100
102	MP-6	Z	.002	.002	0 %100
103	MP-7	Z	.002	.002	0 %100
104	MP-8	Z	.002	.002	0 %100
105	MP-9	Z	.002	.002	0 %100
106	SRC-1B	Z	.002	.002	0 %100
107	SRC-2B	Z	.004	.004	0 %100
108	SRC-3B	Z	.002	.002	0 %100
109	SRC-1A	Z	.006	.006	0 %100
110	SRC-1C	Z	.003	.003	0 %100
111	SRC-2A	Z	.003	.003	0 %100
112	SRC-2C	Z	.003	.003	0 %100
113	SRC-3A	Z	.003	.003	0 %100
114	SRC-3C	Z	.006	.006	0 %100
115	SA-1	Z	.003	.003	0 %100
116	SA-2	Z	.003	.003	0 %100
117	SA-3	Z	0	0	0 %100
118	SR-1	Z	.001	.001	0 %100
119	SR-2	Z	.002	.002	0 %100
120	SR-3	Z	.001	.001	0 %100

Member Distributed Loads (BLC 33 : 315 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	-0.00935	-0.00935	0 %100
2	CP-2B	X	-0.003	-0.003	0 %100
3	CP-3B	X	-0.003	-0.003	0 %100



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Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
4	CP-1A	X	-0.005	-0.005	0 %100
5	CP-1C	X	-0.004	-0.004	0 %100
6	CP-2A	X	-0.004	-0.004	0 %100
7	CP-2C	X	-0.001	-0.001	0 %100
8	CP-3A	X	-0.001	-0.001	0 %100
9	CP-3C	X	-0.005	-0.005	0 %100
10	FFTH	X	-0.001	-0.001	0 %100
11	SF2-TH	X	-0.002	-0.002	0 %100
12	SF3-TH	X	-0.00414	-0.00414	0 %100
13	GS-1	X	-0.002	-0.002	0 %100
14	GS-2	X	-0.002	-0.002	0 %100
15	GS-3	X	-0.002	-0.002	0 %100
16	GS-4	X	-0.00531	-0.00531	0 %100
17	GS-5	X	-0.00438	-0.00438	0 %100
18	GS-6	X	-0.001	-0.001	0 %100
19	IP-1A	X	-0.006	-0.006	0 %100
20	IP-1B	X	-0.001	-0.001	0 %100
21	IP-1C	X	-0.001	-0.001	0 %100
22	IP-1D	X	-0.004	-0.004	0 %100
23	IP-2A	X	-0.004	-0.004	0 %100
24	IP-2B	X	-0.005	-0.005	0 %100
25	IP-2C	X	-0.005	-0.005	0 %100
26	IP-2D	X	-0.002	-0.002	0 %100
27	IP-3A	X	-0.002	-0.002	0 %100
28	IP-3B	X	-0.004	-0.004	0 %100
29	IP-3C	X	-0.004	-0.004	0 %100
30	IP-3D	X	-0.006	-0.006	0 %100
31	INT-1A	X	-0.00621	-0.00621	0 %100
32	INT-1B	X	-0.00621	-0.00621	0 %100
33	INT-2A	X	-0.002	-0.002	0 %100
34	INT-2B	X	-0.002	-0.002	0 %100
35	INT-3A	X	-0.002	-0.002	0 %100
36	INT-3B	X	-0.002	-0.002	0 %100
37	MP-1	X	-0.002	-0.002	0 %100
38	MP-2	X	-0.002	-0.002	0 %100
39	MP-3	X	-0.002	-0.002	0 %100
40	MP-4	X	-0.002	-0.002	0 %100
41	MP-5	X	-0.002	-0.002	0 %100
42	MP-6	X	-0.002	-0.002	0 %100
43	MP-7	X	-0.002	-0.002	0 %100
44	MP-8	X	-0.002	-0.002	0 %100
45	MP-9	X	-0.002	-0.002	0 %100
46	SRC-1B	X	-0.00881	-0.00881	0 %100
47	SRC-2B	X	-0.003	-0.003	0 %100
48	SRC-3B	X	-0.003	-0.003	0 %100
49	SRC-1A	X	-0.005	-0.005	0 %100
50	SRC-1C	X	-0.003	-0.003	0 %100
51	SRC-2A	X	-0.003	-0.003	0 %100
52	SRC-2C	X	-0.001	-0.001	0 %100
53	SRC-3A	X	-0.001	-0.001	0 %100
54	SRC-3C	X	-0.005	-0.005	0 %100
55	SA-1	X	-0.003	-0.003	0 %100
56	SA-2	X	-0.002	-0.002	0 %100
57	SA-3	X	-0.00075	-0.00075	0 %100
58	SR-1	X	-0.001	-0.001	0 %100
59	SR-2	X	-0.001	-0.001	0 %100
60	SR-3	X	-0.004	-0.004	0 %100



Company : Tower Engineering Professionals
 Designer : NPD
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Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
61	CP-1B	Z	.000982	.000982	0 %100
62	CP-2B	Z	.004	.004	0 %100
63	CP-3B	Z	.002	.002	0 %100
64	CP-1A	Z	.005	.005	0 %100
65	CP-1C	Z	.003	.003	0 %100
66	CP-2A	Z	.003	.003	0 %100
67	CP-2C	Z	.001	.001	0 %100
68	CP-3A	Z	.001	.001	0 %100
69	CP-3C	Z	.005	.005	0 %100
70	FFTH	Z	.001	.001	0 %100
71	SF2-TH	Z	.002	.002	0 %100
72	SF3-TH	Z	.000481	.000481	0 %100
73	GS-1	Z	.001	.001	0 %100
74	GS-2	Z	.002	.002	0 %100
75	GS-3	Z	.002	.002	0 %100
76	GS-4	Z	.00058	.00058	0 %100
77	GS-5	Z	.000471	.000471	0 %100
78	GS-6	Z	.001	.001	0 %100
79	IP-1A	Z	.006	.006	0 %100
80	IP-1B	Z	.001	.001	0 %100
81	IP-1C	Z	.001	.001	0 %100
82	IP-1D	Z	.004	.004	0 %100
83	IP-2A	Z	.004	.004	0 %100
84	IP-2B	Z	.005	.005	0 %100
85	IP-2C	Z	.005	.005	0 %100
86	IP-2D	Z	.002	.002	0 %100
87	IP-3A	Z	.002	.002	0 %100
88	IP-3B	Z	.004	.004	0 %100
89	IP-3C	Z	.004	.004	0 %100
90	IP-3D	Z	.006	.006	0 %100
91	INT-1A	Z	.000665	.000665	0 %100
92	INT-1B	Z	.000665	.000665	0 %100
93	INT-2A	Z	.002	.002	0 %100
94	INT-2B	Z	.002	.002	0 %100
95	INT-3A	Z	.002	.002	0 %100
96	INT-3B	Z	.002	.002	0 %100
97	MP-1	Z	.002	.002	0 %100
98	MP-2	Z	.002	.002	0 %100
99	MP-3	Z	.002	.002	0 %100
100	MP-4	Z	.002	.002	0 %100
101	MP-5	Z	.002	.002	0 %100
102	MP-6	Z	.002	.002	0 %100
103	MP-7	Z	.002	.002	0 %100
104	MP-8	Z	.002	.002	0 %100
105	MP-9	Z	.002	.002	0 %100
106	SRC-1B	Z	.000935	.000935	0 %100
107	SRC-2B	Z	.003	.003	0 %100
108	SRC-3B	Z	.002	.002	0 %100
109	SRC-1A	Z	.005	.005	0 %100
110	SRC-1C	Z	.003	.003	0 %100
111	SRC-2A	Z	.003	.003	0 %100
112	SRC-2C	Z	.001	.001	0 %100
113	SRC-3A	Z	.001	.001	0 %100
114	SRC-3C	Z	.005	.005	0 %100
115	SA-1	Z	.003	.003	0 %100
116	SA-2	Z	.002	.002	0 %100
117	SA-3	Z	.000691	.000691	0 %100



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 Designer : NPD
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Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
118	SR-1	Z	.001	.001	0 %100
119	SR-2	Z	.002	.002	0 %100
120	SR-3	Z	.000484	.000484	0 %100

Member Distributed Loads (BLC 34 : 330 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
1	CP-1B	X	0	0	%100
2	CP-2B	X	-.004	-.004	0 %100
3	CP-3B	X	-.004	-.004	0 %100
4	CP-1A	X	-.006	-.006	0 %100
5	CP-1C	X	-.006	-.006	0 %100
6	CP-2A	X	-.006	-.006	0 %100
7	CP-2C	X	0	0	%100
8	CP-3A	X	0	0	%100
9	CP-3C	X	-.006	-.006	0 %100
10	FFTH	X	-.002	-.002	0 %100
11	SF2-TH	X	-.002	-.002	0 %100
12	SF3-TH	X	0	0	%100
13	GS-1	X	-.002	-.002	0 %100
14	GS-2	X	-.002	-.002	0 %100
15	GS-3	X	-.002	-.002	0 %100
16	GS-4	X	-6.2e-5	-6.2e-5	0 %100
17	GS-5	X	-6.3e-5	-6.3e-5	0 %100
18	GS-6	X	-.002	-.002	0 %100
19	IP-1A	X	-.006	-.006	0 %100
20	IP-1B	X	0	0	%100
21	IP-1C	X	0	0	%100
22	IP-1D	X	-.006	-.006	0 %100
23	IP-2A	X	-.006	-.006	0 %100
24	IP-2B	X	-.006	-.006	0 %100
25	IP-2C	X	-.006	-.006	0 %100
26	IP-2D	X	0	0	%100
27	IP-3A	X	0	0	%100
28	IP-3B	X	-.006	-.006	0 %100
29	IP-3C	X	-.006	-.006	0 %100
30	IP-3D	X	-.006	-.006	0 %100
31	INT-1A	X	0	0	%100
32	INT-1B	X	0	0	%100
33	INT-2A	X	-.003	-.003	0 %100
34	INT-2B	X	-.003	-.003	0 %100
35	INT-3A	X	-.003	-.003	0 %100
36	INT-3B	X	-.003	-.003	0 %100
37	MP-1	X	-.002	-.002	0 %100
38	MP-2	X	-.002	-.002	0 %100
39	MP-3	X	-.002	-.002	0 %100
40	MP-4	X	-.002	-.002	0 %100
41	MP-5	X	-.002	-.002	0 %100
42	MP-6	X	-.002	-.002	0 %100
43	MP-7	X	-.002	-.002	0 %100
44	MP-8	X	-.002	-.002	0 %100
45	MP-9	X	-.002	-.002	0 %100
46	SRC-1B	X	0	0	%100
47	SRC-2B	X	-.004	-.004	0 %100
48	SRC-3B	X	-.004	-.004	0 %100
49	SRC-1A	X	-.005	-.005	0 %100
50	SRC-1C	X	-.005	-.005	0 %100



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Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[k/ft.F.kst]	Start Loc...	End Location[ft.%]
51	SRC-2A	X	-.005	-.005	0 %100
52	SRC-2C	X	0	0	%100
53	SRC-3A	X	0	0	%100
54	SRC-3C	X	-.005	-.005	0 %100
55	SA-1	X	-.004	-.004	0 %100
56	SA-2	X	-.002	-.002	0 %100
57	SA-3	X	-.002	-.002	0 %100
58	SR-1	X	-.002	-.002	0 %100
59	SR-2	X	-.002	-.002	0 %100
60	SR-3	X	0	0	%100
61	CP-1B	Z	0	0	%100
62	CP-2B	Z	.002	.002	0 %100
63	CP-3B	Z	.002	.002	0 %100
64	CP-1A	Z	.003	.003	0 %100
65	CP-1C	Z	.003	.003	0 %100
66	CP-2A	Z	.003	.003	0 %100
67	CP-2C	Z	0	0	%100
68	CP-3A	Z	0	0	%100
69	CP-3C	Z	.003	.003	0 %100
70	FFTH	Z	.001	.001	0 %100
71	SF2-TH	Z	.001	.001	0 %100
72	SF3-TH	Z	0	0	%100
73	GS-1	Z	.001	.001	0 %100
74	GS-2	Z	.001	.001	0 %100
75	GS-3	Z	.001	.001	0 %100
76	GS-4	Z	3.9e-5	3.9e-5	0 %100
77	GS-5	Z	3.9e-5	3.9e-5	0 %100
78	GS-6	Z	.001	.001	0 %100
79	IP-1A	Z	.004	.004	0 %100
80	IP-1B	Z	0	0	%100
81	IP-1C	Z	0	0	%100
82	IP-1D	Z	.003	.003	0 %100
83	IP-2A	Z	.003	.003	0 %100
84	IP-2B	Z	.003	.003	0 %100
85	IP-2C	Z	.003	.003	0 %100
86	IP-2D	Z	0	0	%100
87	IP-3A	Z	0	0	%100
88	IP-3B	Z	.003	.003	0 %100
89	IP-3C	Z	.003	.003	0 %100
90	IP-3D	Z	.004	.004	0 %100
91	INT-1A	Z	0	0	%100
92	INT-1B	Z	0	0	%100
93	INT-2A	Z	.001	.001	0 %100
94	INT-2B	Z	.001	.001	0 %100
95	INT-3A	Z	.002	.002	0 %100
96	INT-3B	Z	.002	.002	0 %100
97	MP-1	Z	.001	.001	0 %100
98	MP-2	Z	.001	.001	0 %100
99	MP-3	Z	.001	.001	0 %100
100	MP-4	Z	.001	.001	0 %100
101	MP-5	Z	.001	.001	0 %100
102	MP-6	Z	.001	.001	0 %100
103	MP-7	Z	.001	.001	0 %100
104	MP-8	Z	.001	.001	0 %100
105	MP-9	Z	.001	.001	0 %100
106	SRC-1B	Z	0	0	%100
107	SRC-2B	Z	.002	.002	0 %100



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Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/f...]	Start Loc...	End Location[ft.%]
108	SRC-3B	Z	.002	.002	0 %100
109	SRC-1A	Z	.003	.003	0 %100
110	SRC-1C	Z	.003	.003	0 %100
111	SRC-2A	Z	.003	.003	0 %100
112	SRC-2C	Z	0	0	0 %100
113	SRC-3A	Z	0	0	0 %100
114	SRC-3C	Z	.003	.003	0 %100
115	SA-1	Z	.002	.002	0 %100
116	SA-2	Z	.001	.001	0 %100
117	SA-3	Z	.000944	.000944	0 %100
118	SR-1	Z	.001	.001	0 %100
119	SR-2	Z	.001	.001	0 %100
120	SR-3	Z	0	0	0 %100

Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/f...]	Start Loc...	End Location[ft.%]
1	GS-1	Y	-.011	-.011	.32 2.322
2	GS-2	Y	-.011	-.011	.32 2.322
3	SA-1	Y	-.022	-.022	1.397 3.402
4	GS-5	Y	-.011	-.011	.32 2.322
5	GS-6	Y	-.011	-.011	.32 2.322
6	SA-3	Y	-.022	-.022	1.397 3.402
7	GS-3	Y	-.011	-.011	.32 2.322
8	GS-4	Y	-.011	-.011	.32 2.322
9	SA-2	Y	-.022	-.022	1.397 3.402

Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/f...]	Start Loc...	End Location[ft.%]
1	GS-1	Y	-.005	-.005	.32 2.322
2	GS-2	Y	-.005	-.005	.32 2.322
3	SA-1	Y	-.009	-.009	1.397 3.402
4	GS-5	Y	-.005	-.005	.32 2.322
5	GS-6	Y	-.005	-.005	.32 2.322
6	SA-3	Y	-.009	-.009	1.397 3.402
7	GS-3	Y	-.005	-.005	.32 2.322
8	GS-4	Y	-.005	-.005	.32 2.322
9	SA-2	Y	-.009	-.009	1.397 3.402

Joint Loads and Enforced Displacements (BLC 35 : Lm)

Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^...]
1	N44A	L	Y -5

Joint Loads and Enforced Displacements (BLC 36 : Lv)

Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k*s^...]
1	FF1	L	Y -.25

Member Area Loads (BLC 1 : Dead)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	P1	P4	P3	P2	Y	Two Way -.012
2	P5	P8	P7	P6	Y	Two Way -.012
3	P9	P12	P11	P10	Y	Two Way -.012



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

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Member Area Loads (BLC 18 : Ice Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	P1	P4	P3	P2	Y	Two Way -.005	
2	P5	P8	P7	P6	Y	Two Way -.005	
3	P9	P12	P11	P10	Y	Two Way -.005	

Envelope Joint Reactions

Joint	X [k]	Y [k]	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC				
1	SA2	max	.598	2	1.728	34	1.22	6	.156	30	1.43	6	.601	10
2		min	-.665	26	-.065	10	-1.22	14	-.156	22	-1.43	14	-3.869	34
3	SA3	max	1.095	18	1.735	39	.787	5	3.309	39	1.453	11	2.01	56
4		min	-1.062	10	-.05	15	-.843	29	-.497	15	-1.453	3	-.274	15
5	SA1	max	1.095	18	1.735	45	.843	23	.497	5	1.453	17	2.01	62
6		min	-1.062	10	-.05	5	-.787	15	-3.309	45	-1.453	9	-.274	5
7	Totals:	max	2.779	18	4.641	39	2.685	22						
8		min	-2.779	10	1.811	95	-2.685	14						

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

Member	Shape	Code Check	Loc[ft]	LC	Shea... Loc...	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M...	Egn			
1	CP-2B	L6.5x2.5x6	.264	1.524	23	.100	2.762	y	19	85.665	104.794	2.183	14.69	1...H2-1
2	CP-1B	L6.5x2.5x6	.264	1.524	29	.100	.286	y	33	85.665	104.794	2.183	14.69	1...H2-1
3	CP-3B	L6.5x2.5x6	.258	1.524	18	.097	.286	y	22	85.665	104.794	2.183	14.69	1...H2-1
4	SA-2	HSS4X4X6	.171	0	20	.031	0	y	34	167.615	215.1	23.963	23.963	1...H1-1b
5	SA-3	HSS4X4X6	.171	0	22	.057	0	y	55	167.615	215.1	23.963	23.963	1...H1-1b
6	SA-1	HSS4X4X6	.171	0	30	.057	0	y	63	167.615	215.1	23.963	23.963	1...H1-1b
7	MP-1	PIPE 2.5	.137	5.667	22	.046	5.667		24	51.484	66.654	4.727	4.727	3...H1-1b
8	MP-3	PIPE 2.5	.137	5.667	30	.046	5.667		28	51.484	66.654	4.727	4.727	3...H1-1b
9	IP-1D	PL6x3/8	.137	.085	31	.203	.208	y	44	70.882	72.9	.57	9.113	2...H1-1b
10	IP-2A	PL6x3/8	.137	.085	21	.203	.208	y	40	70.882	72.9	.57	9.113	2...H1-1b
11	MP-6	PIPE 2.5	.137	5.667	20	.045	5.667		18	51.484	66.654	4.727	4.727	4...H1-1b
12	MP-7	PIPE 2.5	.137	5.667	32	.045	5.667		18	51.484	66.654	4.727	4.727	4...H1-1b
13	MP-4	PIPE 2.5	.135	5.667	27	.044	5.667		29	51.484	66.654	4.727	4.727	3...H1-1b
14	MP-9	PIPE 2.5	.135	5.667	25	.044	5.667		23	51.484	66.654	4.727	4.727	3...H1-1b
15	SRC-2B	L6x4x4	.133	3.102	25	.006	3.102	y	50	53.192	78.975	3.604	6.901	1...H2-1
16	SRC-1B	L6x4x4	.133	0	27	.006	0	z	26	53.192	78.975	3.604	6.901	1...H2-1
17	SRC-2C	L6x4x4	.132	0	25	.327	0	z	28	54.071	78.975	3.604	6.901	1...H2-1
18	SRC-1A	L6x4x4	.132	.387	27	.327	.387	z	24	54.071	78.975	3.604	6.901	1...H2-1
19	IP-1A	PL6x3/8	.131	.085	26	.197	.208	y	45	70.882	72.9	.57	9.113	2...H1-1b
20	IP-2D	PL6x3/8	.131	.085	26	.197	.208	y	39	70.882	72.9	.57	9.113	2...H1-1b
21	IP-3D	PL6x3/8	.131	.085	21	.196	.208	y	34	70.882	72.9	.57	9.113	2...H1-1b
22	IP-3A	PL6x3/8	.131	.085	31	.196	.208	y	34	70.882	72.9	.57	9.113	2...H1-1b
23	SRC-3B	L6x4x4	.129	0	33	.005	0	z	32	53.192	78.975	3.604	6.901	1...H2-1
24	SRC-3A	L6x4x4	.128	.387	33	.316	.387	z	29	54.071	78.975	3.604	6.901	1...H2-1
25	SRC-3C	L6x4x4	.128	0	19	.316	0	z	23	54.071	78.975	3.604	6.901	1...H2-1
26	SRC-1C	L6x4x4	.126	0	30	.324	0	z	18	54.071	78.975	3.604	6.901	1...H2-1
27	SRC-2A	L6x4x4	.125	.387	22	.324	.387	z	18	54.071	78.975	3.604	6.901	1...H2-1
28	FFTH	Pipe 3.5 ...	.114	6	22	.042	4		31	13.392	17.57	6.336	6.336	1...H1-1b
29	SF2-TH	Pipe 3.5 ...	.112	2	20	.041	4		26	13.392	17.57	6.336	6.336	1...H1-1b
30	SF3-TH	Pipe 3.5 ...	.111	2	25	.041	4		26	13.392	17.57	6.336	6.336	1...H1-1b
31	SR-1	PIPE 2.5	.105	5	33	.064	3.021		23	5.158	66.654	4.727	4.727	1...H1-1b
32	SR-3	PIPE 2.5	.100	8.75	17	.064	3.021		18	5.158	66.654	4.727	4.727	1...H1-1b
33	SR-2	PIPE 2.5	.100	1.25	3	.064	3.021		18	5.158	66.654	4.727	4.727	1...H1-1b
34	MP-2	PIPE 2.5	.096	5.667	30	.048	5.667		30	51.484	66.654	4.727	4.727	3...H1-1b
35	MP-5	PIPE 2.5	.093	5.667	20	.048	5.667		27	51.484	66.654	4.727	4.727	3...H1-1b
36	MP-8	PIPE 2.5	.093	5.667	32	.048	5.667		25	51.484	66.654	4.727	4.727	3...H1-1b
37	IP-1C	PL6x3/8	.078	0	29	.013	0	y	44	70.011	72.9	.57	9.113	1...H1-1b



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 66389.677386
 Model Name : 283420 - Stoneybrook RD CT

Mar 25, 2022
 10:57 AM
 Checked By: SDJ

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

Member	Shape	Code Check	Loc(ft)	LC	Shear	Loc(ft)	Dir	LC	phi*Pn	phi*Pn	phi*M	phi*M	Eqn	
38	IP-2B	PL6x3/8	.078	0	23	.013	0	y	40	70.011	72.9	.57	9.113	1.H1-1b
39	IP-2C	PL6x3/8	.077	0	23	.013	0	y	39	70.011	72.9	.57	9.113	1.H1-1b
40	IP-1B	PL6x3/8	.077	0	29	.013	0	y	45	70.011	72.9	.57	9.113	1.H1-1b
41	IP-3C	PL6x3/8	.076	0	18	.013	0	y	34	70.011	72.9	.57	9.113	1.H1-1b
42	IP-3B	PL6x3/8	.076	0	18	.013	0	y	34	70.011	72.9	.57	9.113	1.H1-1b
43	CP-1C	PL6x3/8	.061	.292	21	.278	.292	v	26	68.997	72.9	.57	9.113	2.H1-1b
44	CP-2A	PL6x3/8	.061	.292	31	.278	.292	v	26	68.997	72.9	.57	9.113	2.H1-1b
45	CP-1A	PL6x3/8	.060	.292	21	.288	.292	v	31	68.997	72.9	.57	9.113	2.H1-1b
46	CP-2C	PL6x3/8	.060	.292	31	.288	.292	v	21	68.997	72.9	.57	9.113	2.H1-1b
47	CP-3C	PL6x3/8	.059	.292	26	.288	.292	v	32	68.997	72.9	.57	9.113	2.H1-1b
48	CP-3A	PL6x3/8	.059	.292	26	.288	.292	v	20	68.997	72.9	.57	9.113	2.H1-1b
49	GS-3	L2x2x4	.026	1.185	34	.017	2.322	v	22	23.282	30.586	.691	1.577	1.H2-1
50	GS-4	L2x2x4	.026	1.185	34	.017	2.322	z	30	23.282	30.586	.691	1.577	1.H2-1
51	GS-5	L2x2x4	.026	1.185	34	.017	2.322	v	27	23.282	30.586	.691	1.577	1.H2-1
52	GS-2	L2x2x4	.026	1.185	34	.017	2.322	z	25	23.282	30.586	.691	1.577	1.H2-1
53	GS-1	L2x2x4	.026	1.185	43	.017	2.322	y	33	23.282	30.586	.691	1.577	1.H2-1
54	GS-6	L2x2x4	.026	1.185	41	.017	2.322	z	19	23.282	30.586	.691	1.577	1.H2-1

Envelope AISI S100-16: LRFD Cold Formed Steel Code Checks

Member	Shape	Code	Loc(ft)	LC	Shear	Loc(ft)	Dir	LC	phi*Pn	phi*Pn	phi*Mn	phi*Mn	phi*Cb	Eqn	
1	INT-1A	CU3.38...	.309	0	45	.044	0	y	45	44.178	53.189	1.321	4.339	10.876|4.672|1.525	H1.2-1
2	INT-1B	CU3.38...	.301	2.452	45	.043	2.452	y	45	44.178	53.189	1.321	4.339	10.876|4.672|1.525	H1.2-1
3	INT-2A	CU3.38...	.304	0	34	.042	0	y	34	44.178	53.189	1.321	4.339	10.876|4.672|1.526	H1.2-1
4	INT-2B	CU3.38...	.304	2.452	34	.042	2.452	y	34	44.178	53.189	1.321	4.339	10.876|4.672|1.526	H1.2-1
5	INT-3A	CU3.38...	.301	0	39	.043	0	y	39	44.178	53.189	1.321	4.339	10.876|4.672|1.525	H1.2-1
6	INT-3B	CU3.38...	.309	2.452	39	.044	2.452	y	39	44.178	53.189	1.321	4.339	10.876|4.672|1.525	H1.2-1



Code Revisions:	TIA-222-H	IBC 2018
Tower Type:	Monopole	

Wind Inputs:		
Ult. Wind Velocity:	119.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	107.0	ft
Antenna Centerline:	107.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	75	ft

Wind Calculations:		
K_{zt} :	1.000	Section 2.6.6
K_d :	0.950	
$K_{z-Mount}$:	1.008	Section 2.6.5.2
$K_{z-Antenna}$:	1.008	Section 2.6.5.2
K_{iz} :	1.125	Section 2.6.10
Ice Thickness:	1.125	inches - Section 2.6.10

Without Ice - (psf)	With Ice - (psf)
$(q_z G_h)_{Mount}$: 34.60	$(q_z G_h)_{Mount}$: 6.11
$(q_z G_h)_{Antenna}$: 34.60	$(q_z G_h)_{Antenna}$: 6.11

Seismic Code Revisions:	TIA-222-H
Seismic Risk Category:	II

Seismic Input		
S_{DS} :	0.221	Design Short Period Spectral Accel.
I_p :	1.0	Importance Factor
R_p :	2.0	Response Modification Factor
ρ :	1.0	
A_s :	1.0	Applification Factor - TIA-222-H Section 2.7.8.1
S_1 :	0.054	Spectral Acceleration at a Period of 1 Second

Seismic Design Force			
Cs:	0.111	kips/kip	TIA-H Sec 2.7.7.1.1
Cs-min:	0.030	kips/kip	TIA-H Sec 2.7.7.1.1



Antenna Loads are Calculated in Accordance with TIA-222-H

Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Distance from start node of the member		
										Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
JMA WIRELESS	MX08FRO665-21	72.00	20.00	8.00	64.50	0.00	1	Flat	MP-2	1.50	6.50	
FUJITSU	TA08025-B604	15.70	15.00	7.90	63.90	90.00	1	Flat	MP-2	2.00		
FUJITSU	TA08025-B604	15.70	15.00	9.10	75.00	90.00	1	Flat	MP-2	2.00		
Raycap	RDIDC-9181-PF-48	16.00	14.00	8.00	21.90	0.00	1	Flat	MP-2	4.00		
JMA WIRELESS	MX08FRO665-21	72.00	20.00	8.00	64.50	120.00	1	Flat	MP-5	1.50	6.50	
FUJITSU	TA08025-B604	15.70	15.00	7.90	63.90	210.00	1	Flat	MP-5	2.00		
FUJITSU	TA08025-B604	15.70	15.00	9.10	75.00	210.00	1	Flat	MP-5	2.00		
JMA WIRELESS	MX08FRO665-21	72.00	20.00	8.00	64.50	240.00	1	Flat	MP-8	1.50	6.50	
FUJITSU	TA08025-B604	15.70	15.00	7.90	63.90	330.00	1	Flat	MP-8	2.00		
FUJITSU	TA08025-B604	15.70	15.00	9.10	75.00	330.00	1	Flat	MP-8	2.00		



283420 - Stoneybrook RD CT

TEP No. 66389.677386
 Analysis By: NPD 3/25/2022
 Checked By: SDJ 3/25/2022

Member Forces are Calculated in Accordance with TIA-222-H

Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
CP-1B	6.500	36.57	Flat	30.00	18.00
CP-2B	6.500	36.57	Flat	-30.00	18.00
CP-3B	6.500	36.57	Flat	90.00	18.00
CP-1A	6.000	3.50	Flat	-30.00	12.75
CP-1C	6.000	3.50	Flat	90.00	12.75
CP-2A	6.000	3.50	Flat	90.00	12.75
CP-2C	6.000	3.50	Flat	30.00	12.75
CP-3A	6.000	3.50	Flat	30.00	12.75
CP-3C	6.000	3.50	Flat	-30.00	12.75
FFTH	3.500	96.00	Round	90.00	11.00
SF2-TH	3.500	96.00	Round	-30.00	11.00
SF3-TH	3.500	96.00	Round	30.00	11.00
GS-1	2.000	27.86	Flat	-88.44	8.00
GS-2	2.000	27.86	Flat	-31.56	8.00
GS-3	2.000	27.86	Flat	-28.44	8.00
GS-4	2.000	27.86	Flat	28.44	8.00
GS-5	2.000	27.86	Flat	31.56	8.00
GS-6	2.000	27.86	Flat	88.44	8.00
IP-1A	6.000	2.50	Flat	-30.00	12.75
IP-1B	6.000	3.00	Flat	30.00	12.75
IP-1C	6.000	3.00	Flat	30.00	12.75
IP-1D	6.000	2.50	Flat	90.00	12.75
IP-2A	6.000	2.50	Flat	90.00	12.75
IP-2B	6.000	3.00	Flat	-30.00	12.75
IP-2C	6.000	3.00	Flat	-30.00	12.75
IP-2D	6.000	2.50	Flat	30.00	12.75
IP-3A	6.000	2.50	Flat	30.00	12.75
IP-3B	6.000	3.00	Flat	90.00	12.75
IP-3C	6.000	3.00	Flat	90.00	12.75
IP-3D	6.000	2.50	Flat	-30.00	12.75
INT-1A	3.380	29.43	Flat	30.00	10.88
INT-1B	3.380	29.43	Flat	30.00	10.88
INT-2A	3.380	29.43	Flat	90.00	10.88
INT-2B	3.380	29.43	Flat	90.00	10.88
INT-3A	3.380	29.43	Flat	-30.00	10.88
INT-3B	3.380	29.43	Flat	-30.00	10.88
MP-1	2.875	96.00	Round		9.03
MP-2	2.875	96.00	Round		9.03
MP-3	2.875	96.00	Round		9.03
MP-4	2.875	96.00	Round		9.03
MP-5	2.875	96.00	Round		9.03
MP-6	2.875	96.00	Round		9.03
MP-7	2.875	96.00	Round		9.03
MP-8	2.875	96.00	Round		9.03
MP-9	2.875	96.00	Round		9.03
SRC-1B	6.000	37.22	Flat	30.00	20.00
SRC-2B	6.000	37.22	Flat	-30.00	20.00
SRC-3B	6.000	37.22	Flat	90.00	20.00
SRC-1A	6.000	4.64	Flat	-30.00	20.00
SRC-1C	6.000	4.64	Flat	90.00	20.00

SRC-2A	6.000	4.64	Flat	90.00	20.00
SRC-2C	6.000	4.64	Flat	30.00	20.00
SRC-3A	6.000	4.64	Flat	30.00	20.00
SRC-3C	6.000	4.64	Flat	-30.00	20.00
SA-1	4.000	40.83	Flat	-60.00	16.00
SA-2	4.000	40.83	Flat	0.00	16.00
SA-3	4.000	40.83	Flat	60.00	16.00
SR-1	2.875	120.00	Round	90.00	9.03
SR-2	2.875	120.00	Round	-30.00	9.03
SR-3	2.875	120.00	Round	30.00	9.03



**TOWER
ENGINEERING
PROFESSIONALS**

283420 - Stoneybrook RD CT

TEP No. 66389.677386

Analysis By: NPD 3/25/2022

Checked By: SDJ 3/25/2022

Moment Bolt Group - Support Arm

Code Revisions:	ANSI/TIA-222-H
Bolt Type:	Headed Bolts

Connection Inputs:

Bolt Size:	0.625	in
# Bolts:	4	
Plate Width:	9.00	in
Plate Height:	9.00	in
Bolt H Gap:	7.00	in
Bolt V Gap:	7.00	in
Plate T:	0.625	in
Slip Member Ø:	N/A	in
Bolt Grade:	A325N	

Capacities:

Bolt Capacity=	17.8%	PASS
Plate Capacity=	25.7%	PASS
Weld Capacity=	27.9%	PASS

Bolt Properties:

$F_{y\text{bolt}}$:	92.0	ksi
$F_{u\text{bolt}}$:	120.0	ksi
r:	4.9	in
J:	98.0	in ⁴ /in ²
A_{bolt} :	0.3	in ²
$A_{\text{bolt, Net Tensile}}$:	0.2	in ²
Pretension:	19.0	kips

Member Properties:

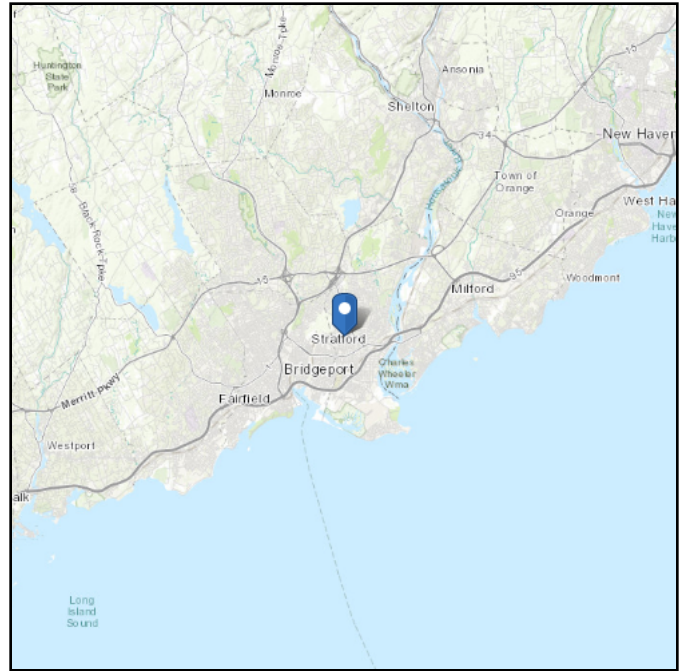
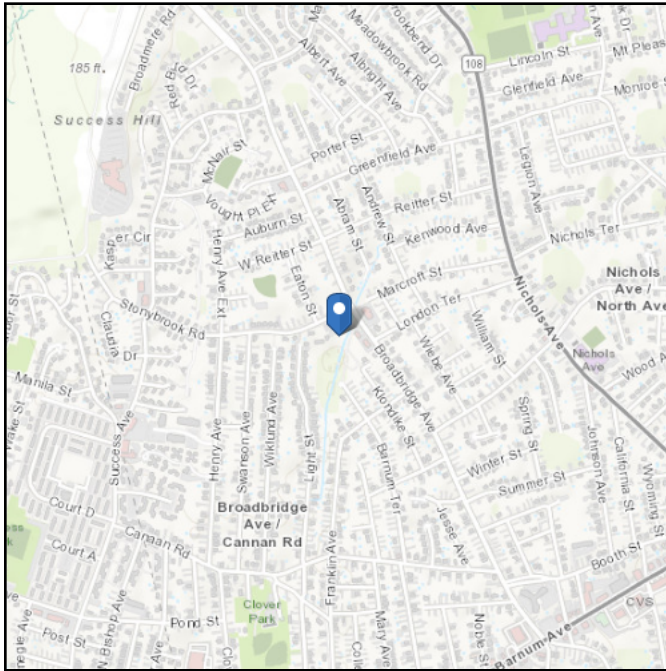
Member Shape:	Flat	
Plate F_y :	50.0	ksi
Plate F_u :	65.0	ksi
Member Height:	4.0	in
Member Width:	4.0	in
Weld Strength:	70.0	ksi
Weld Size:	0.2500	in
S_{weld} :	5.7060	in ³
A_{weld} :	4.2500	in ²
ϕR_n :	47.2500	ksi
R_u :	8.1713	ksi
Base Metal Strength:	29.3	ksi

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Elevation: 75.23 ft (NAVD 88)
Latitude: 41.2033
Longitude: -73.1486



Wind

Results:

Wind Speed	119 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	90 Vmph
100-year MRI	98 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Thu Mar 24 2022

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

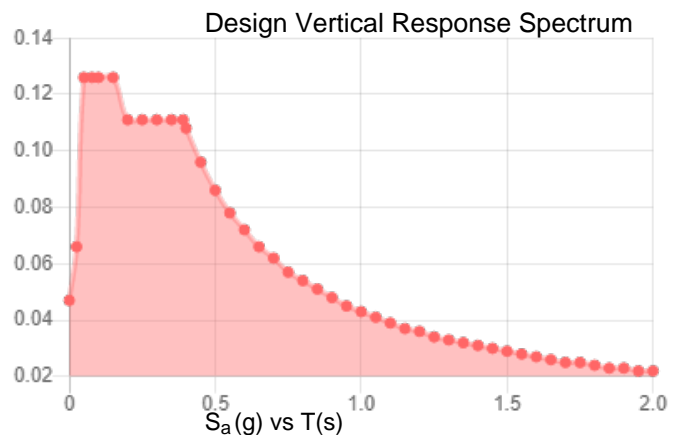
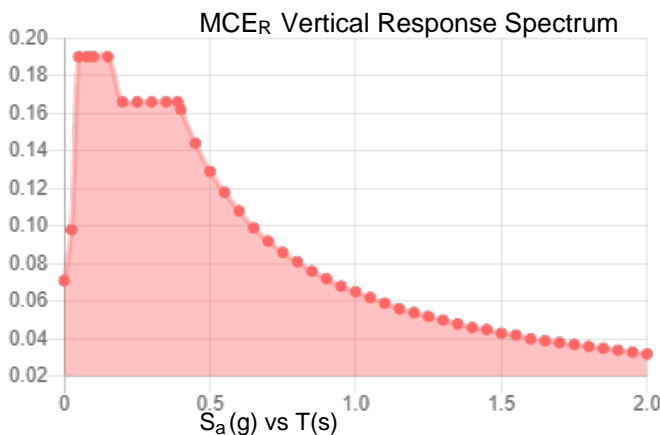
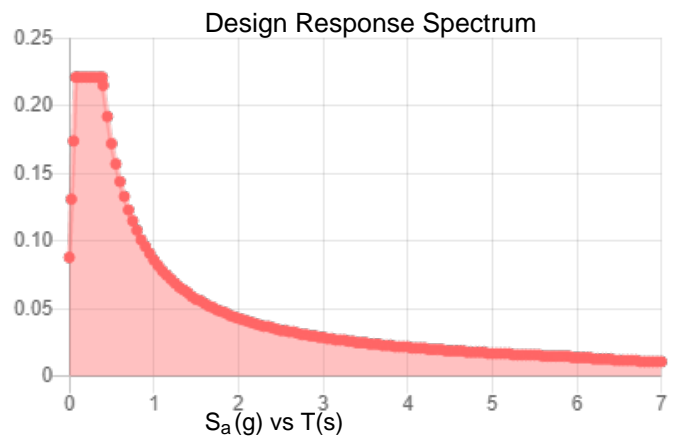
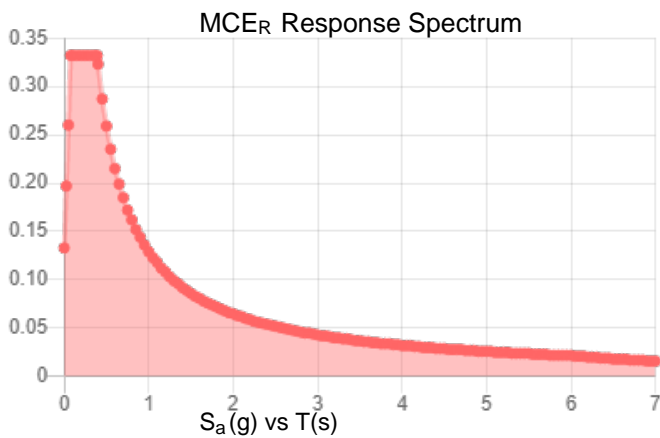
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Default (see Section 11.4.3)

Results:

S_s :	0.207	S_{D1} :	0.086
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.118
F_v :	2.4	PGA _M :	0.184
S_{MS} :	0.332	F_{PGA} :	1.565
S_{M1} :	0.129	I_e :	1
S_{DS} :	0.221	C_v :	0.715

Seismic Design Category B



Data Accessed: Thu Mar 24 2022

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.00 in.

Concurrent Temperature: 15 F

Gust Speed 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Thu Mar 24 2022

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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CLS ENGINEERING
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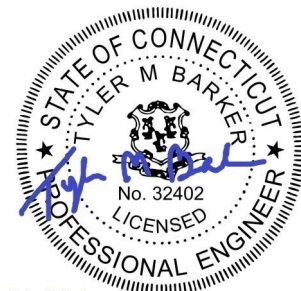
Structural Analysis Report

Structure : 119 ft Monopole
ATC Site Name : STONEYBROOK RD CT,CT
ATC Site Number : 283420
Engineering Number : 13712876_C3_04
Proposed Carrier : DISH WIRELESS L.L.C.
Carrier Site Name : NJJER02048A
Carrier Site Number : NJJER02048A
Site Location : 23 Stonybrook Road
Stratford, CT 06614-3715
41.2033, -73.1486
County : Fairfield
Date : October 19, 2021
Max Usage : 78%
Result : Pass

Prepared By:

Temitope Olaniyan
CLS

Reviewed By:



Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2022
COA # PEC.001833 Exp. 8/14/2022

10/19/2021

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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 DISH WIRELESS L.L.C..

Supporting Documents

Tower Drawings	Valmont Order #20380-10, dated July 30, 2010
Foundation Drawing	Valmont Order #20380-60, dated June 11, 2010
Geotechnical Report	Terracon Project #J2105132, dated April 2, 2010
Modifications	TES Job #13142, dated November 12, 2014

Analysis

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

Basic Wind Speed:	119 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.21, S_i = 0.05$
Site Class:	D - Stiff Soil - Default

Conclusion

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

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

Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
117.0	1	Commscope WCS-IMFQ-AMT	T-Arm	(2) 0.39" (10mm) Fiber Trunk (4) 0.82" (20.8mm) 8 AWG 6 (1) 0.92" (23.4mm) Cable (3) 2 1/2" conduit (2) 3" conduit	AT&T MOBILITY
	1	Raycap DC6-48-60-18-8F(32.8 lbs)			
	3	Ericsson RRUS 4426 B66			
	3	Ericsson RRUS 4478 B14			
	3	Kathrein Scala 80010965			
	3	Ericsson RRUS 32 B2			
	3	Ericsson RRUS-32 B30 (77 lbs)			
	1	Raycap DC9-48-60-24-8C-EV			
	3	CCI TPA65R-BU6D			
	3	Ericsson RRUS 4449 B5, B12			
97.0	3	Ericsson Radio 4449 B71 B85A	Triangular Platform with Handrails	(1) 1 1/4" (1.25"- 31.8mm) Fiber (2) 1 5/8" Hybriflex (12) 7/8" Coax	T-MOBILE
	3	RFS APXVAARR24_43-U-NA20			
	3	Ericsson AIR32 B66Aa/B2a			
	3	Ericsson Air6449 B41			
	3	Ericsson RRUS 4415 B25			
	3	Ericsson RRUS 01 B2 w/ Solar Shield			
77.0	3	Samsung B2/B66A RRH-BR049	Sector Frame	(2) 1 5/8" Hybriflex	VERIZON WIRELESS
	6	Quintel QS6656-5D			
	3	Samsung MT6407-77A			
	1	RFS DB-C1-12C-24AB-0Z			
	3	Samsung B5/B13 RRH-BR04C			

Equipment to be Removed

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

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
107.0	1	Raycap RDIDC-9181-PF-48	Triangular Platform with Handrails	(1) 1.75" (44.5mm) Hybrid	DISH WIRELESS L.L.C.
	3	Fujitsu TA08025-B605			
	3	Fujitsu TA08025-B604			
	3	JMA Wireless MX08FRO665-21			

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

Install proposed lines inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	50%	Pass
Shaft	78%	Pass
Base Plate	31%	Pass
Flange	56%	Pass
Reinforcement	78%	Pass

Foundation

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	1364.3	37%
Axial (Kips)	40.4	5%
Shear (Kips)	15.1	19%

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

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
107.0	Raycap RDIDC-9181-PF-48	DISH WIRELESS L.L.C.	1.150	1.370
	JMA Wireless MX08FRO665-21			
	Fujitsu TA08025-B604			
	Fujitsu TA08025-B605			

*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.

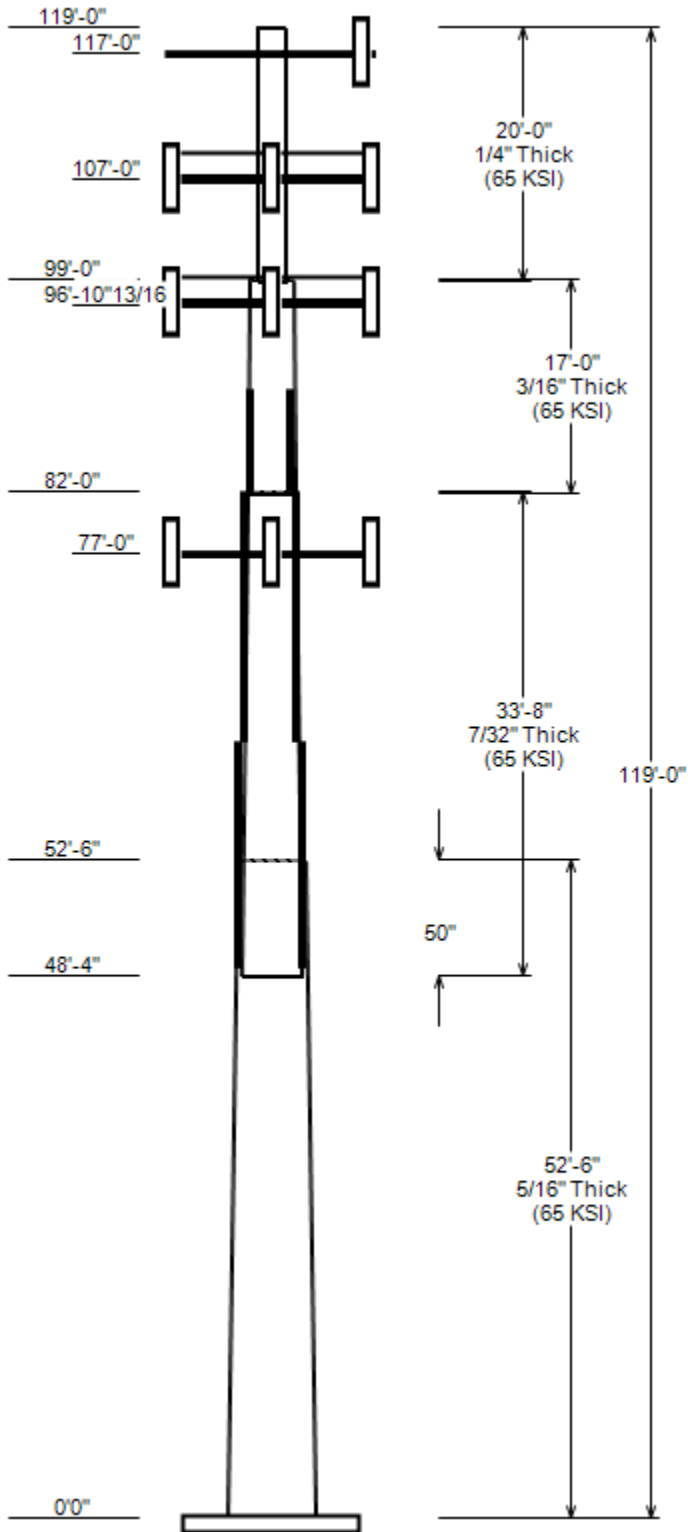
Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

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

Asset : 283420, STONEYBROOK RD CT
 Client : DISH WIRELESS L.L.C.
 Code : ANSI/TIA-222-H

Height : 119 ft
 Base Width : 42
 Shape : 18 Sides



SITE PARAMETERS

Base Elev (ft): 0.00 Structure Class: II
 Taper : 0.30000 (In/ft) Exposure : B
 Topographic Category : 1 Topographic Feature:
 Topo Method : Method 1

SECTION PROPERTIES

Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Overlap Length (in)	Steel Grade (ksi)
		Across Flats Top	Across Flats Bottom			
1	52.500	26.25	42.00	0.312	0.000	65
2	33.667	17.84	27.94	0.219	50.000	65
3	17.000	12.74	17.84	0.188	0.000	65
4	20.000	12.56	12.56	0.250	0.000	65

DISCRETE APPURTENANCE

Attach Elev (ft)	Force Elev (ft)	Qty	Description
117.0	117.0	1	Commscope WCS-IMFQ-AMT
117.0	118.0	1	Raycap DC6-48-60-18-8F(32.8 lb
117.0	117.0	3	Ericsson RRUS 4426 B66
117.0	117.0	3	Ericsson RRUS 4478 B14
117.0	117.0	3	Ericsson RRUS 4449 B5, B12
117.0	118.0	3	Ericsson RRUS 32 B2
117.0	117.0	3	Ericsson RRUS-32 B30 (77 lbs)
117.0	117.0	1	Raycap DC9-48-60-24-8C-EV
117.0	117.0	3	Generic Round T-Arm
117.0	117.0	3	CCI TPA65R-BU6D
117.0	117.0	3	Kathrein Scala 80010965
107.0	107.0	1	Raycap RDIDC-9181-PF-48
107.0	107.0	3	Fujitsu TA08025-B605
107.0	107.0	3	Fujitsu TA08025-B604
107.0	107.0	3	JMA Wireless MX08FRO665-21
107.0	107.0	1	Generic Round Platform with Ha
97.0	97.0	3	Ericsson Radio 4449 B71 B85A
97.0	97.0	3	Ericsson RRUS 4415 B25
97.0	97.0	3	Ericsson Air6449 B41
97.0	97.0	3	Ericsson AIR32 B66Aa/B2a
97.0	97.0	3	RFS APXVAARR24_43-U-NA20
97.0	97.0	1	Generic Round Platform with Ha
96.9	96.9	3	Ericsson RRUS 01 B2 w/ Solar S
77.0	77.0	3	Samsung B5/B13 RRH-BR04C
77.0	77.0	3	Samsung B2/B66A RRH-BR049
77.0	77.0	1	RFS DB-C1-12C-24AB-0Z
77.0	77.0	3	Samsung MT6407-77A
77.0	77.0	6	Quintel QS6656-5D
77.0	77.0	3	Generic Round T-Arm

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
0.0	117.0	3" conduit	No
0.0	117.0	2 1/2" conduit	No
0.0	117.0	0.92" (23.4mm) Cable	No
0.0	117.0	0.82" (20.8mm) 8 AWG 6	No
0.0	117.0	0.39" (10mm) Fiber Trunk	No
0.0	107.0	1.75" (44.5mm) Hybrid	No
0.0	97.0	7/8" Coax	No
0.0	97.0	1 5/8" Hybriflex	No
0.0	97.0	1 1/4" (1.25"- 31.8mm) Fiber	No
42.0	92.0	1" Flat Plate	Yes

JOB INFORMATION

Asset : 283420, STONEYBROOK RD CT
 Client : DISH WIRELESS L.L.C.
 Code : ANSI/TIA-222-H

Height : 119 ft
 Base Width : 42
 Shape : 18 Sides

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
42.0	92.0	1" Flat Plate	Yes
42.0	92.0	1" Flat Plate	Yes
0.0	87.0	7/8" Coax	No
0.0	77.0	1 5/8" Hybriflex	No

LOAD CASES

1.2D + 1.0W	119 mph wind with no ice
0.9D + 1.0W	119 mph wind with no ice
1.2D + 1.0Di + 1.0Wi	50 mph wind with 1" radial ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

REACTIONS

Load Case	Moment (kip-ft)	Shear (Kip)	Axial (Kip)
1.2D + 1.0W	1364.30	15.13	40.37
0.9D + 1.0W	1334.83	15.11	30.27
1.2D + 1.0Di + 1.0Wi	354.12	3.96	51.03
1.2D + 1.0Ev + 1.0Eh	101.33	1.01	40.72
0.9D - 1.0Ev + 1.0Eh	98.61	1.01	28.01
1.0D + 1.0W	309.00	3.46	33.67

DISH DEFLECTIONS

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
-----------	------------------	-----------------	----------------

ASSET: 283420, STONEYBROOK RD CT
CUSTOMER: DISH WIRELESS L.L.C.

CODE: ANSI/TIA-222-H
ENG NO: 13712876_C3_04

ANALYSIS PARAMETERS

Location:	Fairfield County,CT	Height:	119 ft
Type and Shape:	Custom, 18 Sides	Base Diameter:	42.00 in
Manufacturer:	Valmont	Top Diameter:	12.56 in
K _d (non-service):	0.95	Taper:	0.3000 in/ft
K _e :	1.00	Rotation:	0.000°

ICE & WIND PARAMETERS

Exposure Category:	B	Design Wind Speed w/o Ice:	119 mph
Risk Category:	II	Design Wind Speed w/Ice:	50 mph
Topo Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	77.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	2.74		
T _L (sec):	6	P:	1	C _s :	0.030
S _s :	0.207	S ₁ :	0.054	C _s Max:	0.030
F _a :	1.600	F _v :	2.400	C _s Min:	0.030
S _{ds} :	0.221	S _{d1} :	0.086		

LOAD CASES

1.2D + 1.0W	119 mph wind with no ice
0.9D + 1.0W	119 mph wind with no ice
1.2D + 1.0Di + 1.0Wi	50 mph wind with 1" radial ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint len (in)	Bottom							Top						
						Weight (lb)	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	52.50	0.3125	65		0.00	5,991	42.00	0.000	41.35	9,078.5	21.94	134.40	26.25	52.50	25.73	2,186.6	13.05	84.00	0.3000
2-18	33.67	0.2188	65	Slip	50.00	1,803	27.94	48.333	19.25	1,868.6	20.75	127.69	17.84	82.00	12.24	479.9	12.61	81.53	0.3000
3-18	17.00	0.1875	65	Butt	0.00	520	17.84	82.000	10.50	413.4	15.01	95.14	12.74	99.00	7.47	148.6	10.22	67.94	0.3000
4-18	20.00	0.2500	65	Butt	0.00	665	12.56	99.000	9.77	187.1	7.10	50.25	12.56	119.00	9.77	187.1	7.10	50.25	0.0000

Shaft Weight 8,979

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice			Ice		
					Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor
117.00	Kathrein Scala 80010965	3	0.80	0.000	97.60	13.814	0.62	271.18	15.800	0.62
117.00	CommScope WCS-IMFQ-AMT	1	0.80	0.000	29.50	0.989	0.50	51.43	1.420	0.50
117.00	Raycap DC6-48-60-18-8F(32.8 lb)	1	0.80	1.000	32.80	1.470	0.50	72.97	1.925	0.50
117.00	Ericsson RRUS 4426 B66	3	0.80	0.000	48.40	1.650	0.50	77.47	2.203	0.50
117.00	Ericsson RRUS 4478 B14	3	0.80	0.000	59.90	1.842	0.50	95.90	2.426	0.50
117.00	CCI TPA65R-BU6D	3	0.80	0.000	67.50	12.871	0.63	237.67	14.692	0.63
117.00	Ericsson RRUS 32 B2	3	0.80	1.000	53.00	2.743	0.50	100.89	3.504	0.50
117.00	Ericsson RRUS-32 B30 (77 lbs)	3	0.80	0.000	77.00	3.314	0.50	140.32	4.150	0.50
117.00	Raycap DC9-48-60-24-8C-EV	1	0.80	0.000	16.00	4.788	0.50	100.05	5.746	0.50
117.00	Generic Round T-Arm	3	0.75	0.000	312.50	9.700	0.67	482.59	15.068	0.67
117.00	Ericsson RRUS 4449 B5, B12	3	0.80	0.000	71.00	1.969	0.50	112.96	2.576	0.50
107.00	Generic Round Platform with Ha	1	1.00	0.000	2500.00	27.200	1.00	3545.11	42.972	1.00
107.00	Fujitsu TA08025-B604	3	0.75	0.000	63.90	1.962	0.50	101.53	2.556	0.50
107.00	JMA Wireless MX08FRO665-21	3	0.75	0.000	64.50	12.489	0.64	230.34	14.302	0.64
107.00	Fujitsu TA08025-B605	3	0.75	0.000	75.00	1.962	0.50	115.42	2.556	0.50
107.00	Raycap RDIDC-9181-PF-48	1	0.75	0.000	21.90	1.867	0.50	58.62	2.448	0.50
97.00	Ericsson AIR32 B66Aa/B2a	3	0.75	0.000	132.20	6.510	0.71	234.27	7.911	0.71
97.00	Generic Round Platform with Ha	1	1.00	0.000	2500.00	27.200	1.00	3535.82	42.832	1.00
97.00	RFS APXVAARR24_43-U-NA20	3	0.75	0.000	127.90	20.243	0.63	378.96	22.615	0.63
97.00	Ericsson Air6449 B41	3	0.75	0.000	104.00	5.682	0.63	191.15	6.697	0.63
97.00	Ericsson RRUS 4415 B25	3	0.75	0.000	46.00	1.842	0.50	77.36	2.416	0.50
97.00	Ericsson Radio 4449 B71 B85A	3	0.75	0.000	75.00	1.650	0.50	113.46	2.193	0.50
96.90	Ericsson RRUS 01 B2 w/ Solar S	3	0.75	0.000	44.00	3.146	0.50	93.94	3.908	0.50
77.00	Samsung B2/B66A RRH-BR049	3	0.80	0.000	84.40	1.875	0.50	124.22	2.438	0.50
77.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	145.22	5.657	0.61
77.00	Samsung B5/B13 RRH-BR04C	3	0.80	0.000	70.30	1.875	0.50	106.00	2.438	0.50
77.00	RFS DB-C1-12C-24AB-OZ	1	0.80	0.000	32.00	4.056	0.50	111.32	4.908	0.50
77.00	Generic Round T-Arm	3	0.75	0.000	312.50	9.700	0.67	475.55	14.845	0.67
77.00	Quintel QS6656-5D	6	0.80	0.000	88.00	8.133	0.74	212.35	9.873	0.74
Totals	Num Loadings: 29				76	11,864.80		20,468.62		

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg) : 0.00_

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Max Flat	Coax/Row	Dist Between Rows(in)	Dist Between Cols(in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
0.00	117.00	4	0.82" (20.8mm) 8 AWG	0.82	0.62	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	117.00	3	2 1/2" conduit	2.88	5.79	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	117.00	2	3" conduit	3.5	7.58	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	117.00	2	0.39" (10mm) Fiber Tr	0.39	0.06	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	117.00	1	0.92" (23.4mm) Cable	0.92	0.89	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	107.00	1	1.75" (44.5mm) Hybrid	1.75	2.72	N	0	0	0	0	0	N	DISH WIRELESS
0.00	97.00	6	7/8" Coax	1.09	0.33	N	0	0	0	0	0	N	T-MOBILE
0.00	97.00	2	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	T-MOBILE
0.00	97.00	1	1 1/4" (1.25"- 31.8mm	1.25	1.05	N	0	0	0	0	0	N	T-MOBILE
42.00	92.00	1	1" Flat Plate	1	30.45	Y	1	0	0	90	0	Y	
42.00	92.00	1	1" Flat Plate	1	30.45	Y	1	0	0	210	0	Y	
42.00	92.00	1	1" Flat Plate	1	30.45	Y	1	0	0	330	0	Y	
0.00	87.00	6	7/8" Coax	1.09	0.33	N	0	0	0	0	0	N	T-MOBILE
0.00	77.00	2	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIREL

ASSET: 283420, STONEYBROOK RD CT
CUSTOMER: DISH WIRELESS L.L.C.

CODE: ANSI/TIA-222-H
ENG NO: 13712876_C3_04

ADDITIONAL STEEL

Intermediate Connectors

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Description	Spacing (in)	Len (in)	Connectors	Continuation?
43.88	62.00	3	PL PL 6" x 1"	65	0.00	5/8" Hollo Bolt	24.00	3.00	5/8" Hollo Bolt	Y
62.00	82.00	3	PL PL 6" x 1"	65	0.00	5/8" Hollo Bolt	24.00	3.00	5/8" Hollo Bolt	Y
82.00	90.13	3	PL PL 6" x 1"	65	0.00	5/8" Hollo Bolt	24.00	3.00	5/8" Hollo Bolt	Y

SEGMENT PROPERTIES

(Max Len: 5.ft)

Additional Reinforcing

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)	Area (in ²)	Ix (in ⁴)	Weight (lb)
0.00		0.3125	42.000	41.347	9,078.50	21.94	134.40	75.6	425.7	0.0	0.0			
5.00		0.3125	40.500	39.860	8,133.30	21.09	129.60	76.6	395.5	0.0	690.8			
10.00		0.3125	39.000	38.372	7,256.20	20.24	124.80	77.6	366.5	0.0	665.5			
15.00		0.3125	37.500	36.884	6,444.40	19.40	120.00	78.6	338.5	0.0	640.2			
20.00		0.3125	36.000	35.396	5,695.60	18.55	115.20	79.6	311.6	0.0	614.9			
25.00		0.3125	34.500	33.909	5,007.20	17.70	110.40	80.6	285.9	0.0	589.6			
30.00		0.3125	33.000	32.421	4,376.60	16.86	105.60	81.6	261.2	0.0	564.3			
35.00		0.3125	31.500	30.933	3,801.30	16.01	100.80	82.6	237.7	0.0	538.9			
40.00		0.3125	30.000	29.445	3,278.80	15.16	96.00	82.6	215.3	0.0	513.6			
43.88	Reinf Bottom	0.3125	28.836	28.291	2,908.10	14.51	92.28	82.6	198.6	0.0	381.1			
45.00		0.3125	28.500	27.957	2,806.50	14.32	91.20	82.6	194.0	0.0	107.2	18.000	1,985.90	68.6
48.33	Bot - Section 2	0.3125	27.500	26.966	2,518.30	13.75	88.00	82.6	180.4	0.0	311.5	18.000	1,855.40	204.2
50.00		0.3125	27.000	26.470	2,381.90	13.47	86.40	82.6	173.8	0.0	259.7	18.000	1,847.40	102.1
52.50	Top - Section 1	0.2188	26.688	18.381	1,627.00	19.74	121.97	78.2	120.1	0.0	380.6	18.000	1,752.70	153.1
55.00		0.2188	25.938	17.860	1,492.60	19.14	118.54	78.9	113.3	0.0	154.2	18.000	1,660.50	153.1
60.00		0.2188	24.438	16.819	1,246.40	17.93	111.69	80.3	100.5	0.0	295.0	18.000	1,483.70	306.3
62.00	Reinf. Top Reinf Bottom	0.2188	23.838	16.402	1,156.00	17.45	108.95	80.9	95.5	0.0	113.0	18.000	1,415.80	122.5
65.00		0.2188	22.938	15.777	1,028.80	16.72	104.83	81.7	88.3	0.0	164.2	18.000	1,317.10	183.8
70.00		0.2188	21.438	14.735	838.20	15.51	97.98	82.6	77.0	0.0	259.6	18.000	1,160.60	306.3
75.00		0.2188	19.938	13.694	672.70	14.30	91.12	82.6	66.5	0.0	241.8	18.000	1,014.20	306.3
77.00		0.2188	19.338	13.277	613.20	13.82	88.38	82.6	62.5	0.0	91.8	18.000	958.40	122.5
80.00		0.2188	18.438	12.652	530.60	13.10	84.27	82.6	56.7	0.0	132.3	18.000	877.90	183.8
82.00	Top - Section 2 Reinf. Top Reinf Bottom	0.2188	17.838	12.235	479.90	12.61	81.52	82.6	53.0	0.0	84.7	18.000	826.20	122.5
82.00	Bot - Section 3	0.1875	17.838	10.504	413.40	15.01	95.13	82.6	45.6	0.0		18.000	826.20	
85.00		0.1875	16.938	9.968	353.30	14.16	90.33	82.6	41.1	0.0	104.5	18.000	751.70	183.8
90.00		0.1875	15.438	9.075	266.70	12.75	82.33	82.6	34.0	0.0	162.0	18.000	635.70	306.3
90.13	Reinf. Top	0.1875	15.399	9.052	264.60	12.72	82.13	82.6	33.8	0.0	4.0	18.000	632.80	8.0
95.00		0.1875	13.938	8.183	195.50	11.34	74.33	82.6	27.6	0.0	142.8			
96.90		0.1875	13.368	7.843	172.10	10.81	71.29	82.6	25.4	0.0	51.8			
97.00		0.1875	13.338	7.826	171.00	10.78	71.13	82.6	25.2	0.0	2.7			
99.00	Top - Section 3	0.1875	12.738	7.469	148.60	10.22	67.93	82.6	23.0	0.0	52.0			
99.00	Bot - Section 4	0.2500	12.563	9.770	187.10	7.10	50.25	82.6	29.3	0.0				
100.00		0.2500	12.563	9.770	187.10	7.10	50.25	82.6	29.3	0.0	33.2			
105.00		0.2500	12.563	9.770	187.10	7.10	50.25	82.6	29.3	0.0	166.2			
107.00		0.2500	12.563	9.770	187.10	7.10	50.25	82.6	29.3	0.0	66.5			
110.00		0.2500	12.563	9.770	187.10	7.10	50.25	82.6	29.3	0.0	99.7			
115.00		0.2500	12.563	9.770	187.10	7.10	50.25	82.6	29.3	0.0	166.2			
117.00		0.2500	12.563	9.770	187.10	7.10	50.25	82.6	29.3	0.0	66.5			
119.00		0.2500	12.563	9.770	187.10	7.10	50.25	82.6	29.3	0.0	66.5			

Totals: 8,979.1 2,833.2

Load Case: 1.2D + 1.0W	119 mph wind with no ice	26 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	-40.37	-15.13	0.00	-1,364.3	0.00	1,364.30	2,813.31	725.65	2,732.26	2,413.98	0	0	0.580
5.00	-39.20	-14.95	0.00	-1,288.6	0.00	1,288.64	2,747.79	699.53	2,539.19	2,272.29	0.11	-0.21	0.582
10.00	-38.05	-14.77	0.00	-1,213.9	0.00	1,213.91	2,679.61	673.42	2,353.20	2,132.56	0.45	-0.43	0.584
15.00	-36.93	-14.61	0.00	-1,140.0	0.00	1,140.05	2,608.76	647.31	2,174.28	1,995.03	1.02	-0.66	0.586
20.00	-35.84	-14.46	0.00	-1,067.0	0.00	1,067.02	2,535.24	621.20	2,002.44	1,859.96	1.84	-0.9	0.588
25.00	-34.78	-14.32	0.00	-994.7	0.00	994.73	2,459.06	595.09	1,837.67	1,727.58	2.92	-1.16	0.591
30.00	-33.74	-14.19	0.00	-923.2	0.00	923.15	2,380.22	568.98	1,679.97	1,598.16	4.28	-1.43	0.592
35.00	-32.74	-14.06	0.00	-852.2	0.00	852.20	2,298.17	542.87	1,529.34	1,471.58	5.93	-1.72	0.594
40.00	-31.77	-13.95	0.00	-781.9	0.00	781.88	2,187.63	516.76	1,385.79	1,332.77	7.89	-2.03	0.602
43.88	-30.84	-13.88	0.00	-727.7	0.00	727.74	2,101.86	496.50	1,279.27	1,229.78	9.65	-2.28	0.607
45.00	-30.42	-13.80	0.00	-712.2	0.00	712.20	2,077.10	490.65	1,249.31	1,200.82	10.19	-2.36	0.357
48.33	-29.22	-13.68	0.00	-666.2	0.00	666.19	2,003.41	473.25	1,162.25	1,116.68	11.88	-2.49	0.353
50.00	-28.49	-13.58	0.00	-643.4	0.00	643.40	1,966.57	464.54	1,119.91	1,075.76	12.77	-2.57	0.346
52.50	-27.42	-13.45	0.00	-609.4	0.00	609.45	1,293.31	322.59	771.23	704.07	14.14	-2.67	0.429
55.00	-26.59	-13.31	0.00	-575.8	0.00	575.82	1,268.09	313.45	728.15	670.62	15.57	-2.78	0.419
60.00	-25.00	-13.14	0.00	-509.3	0.00	509.26	1,215.65	295.17	645.70	605.07	18.61	-3.02	0.396
62.00	-24.36	-13.04	0.00	-483.0	0.00	482.98	1,193.93	287.85	614.11	579.41	19.9	-3.13	0.386
65.00	-23.40	-12.89	0.00	-443.9	0.00	443.87	1,160.55	276.89	568.21	541.55	21.91	-3.28	0.371
70.00	-21.84	-12.67	0.00	-379.4	0.00	379.44	1,094.76	258.60	495.66	476.80	25.48	-3.53	0.345
75.00	-20.32	-12.48	0.00	-316.1	0.00	316.10	1,017.37	240.32	428.07	411.45	29.31	-3.78	0.318
77.00	-17.20	-10.25	0.00	-291.1	0.00	291.14	986.41	233.01	402.42	386.66	30.92	-3.88	0.303
80.00	-16.31	-10.12	0.00	-260.4	0.00	260.40	939.98	222.04	365.43	350.92	33.4	-4.03	0.289
82.00	-15.72	-10.02	0.00	-240.2	0.00	240.15	780.36	184.34	293.89	282.62	35.11	-4.13	0.000
82.00	-15.72	-10.02	0.00	-240.2	0.00	240.15	909.02	214.73	341.76	328.05	35.11	-4.13	0.278
85.00	-14.86	-9.86	0.00	-210.1	0.00	210.10	740.57	174.94	264.69	254.39	37.75	-4.28	0.274
90.00	-13.47	-9.69	0.00	-160.8	0.00	160.79	674.25	159.27	219.41	210.64	42.36	-4.52	0.236
90.13	-13.42	-9.63	0.00	-159.5	0.00	159.53	672.53	158.86	218.29	209.56	42.48	-4.52	0.235
90.13	-13.42	-9.63	0.00	-159.5	0.00	159.53	672.53	158.86	218.29	209.56	42.48	-4.52	0.785
95.00	-12.75	-9.53	0.00	-112.6	0.00	112.62	607.93	143.61	178.38	171.01	47.21	-4.73	0.684
96.90	-12.42	-9.37	0.00	-94.5	0.00	94.51	582.73	137.65	163.90	157.04	49.15	-5.02	0.628
97.00	-7.93	-6.06	0.00	-93.6	0.00	93.58	581.40	137.34	163.16	156.32	49.26	-5.03	0.614
99.00	-7.75	-6.03	0.00	-81.5	0.00	81.46	725.83	171.46	190.75	181.64	51.43	-5.33	0.460
99.00	-7.75	-6.03	0.00	-81.5	0.00	81.46	554.88	131.07	148.61	142.28	51.43	-5.33	0.589
100.00	-7.64	-5.98	0.00	-75.4	0.00	75.43	725.83	171.46	190.75	181.64	52.56	-5.48	0.427
105.00	-7.20	-5.87	0.00	-45.6	0.00	45.55	725.83	171.46	190.75	181.64	58.54	-5.94	0.262
107.00	-3.49	-3.49	0.00	-33.8	0.00	33.82	725.83	171.46	190.75	181.64	61.05	-6.06	0.191
110.00	-3.24	-3.35	0.00	-23.4	0.00	23.36	725.83	171.46	190.75	181.64	64.9	-6.19	0.133
115.00	-2.84	-3.20	0.00	-6.6	0.00	6.62	725.83	171.46	190.75	181.64	71.43	-6.3	0.041
117.00	-0.08	-0.03	0.00	-0.1	0.00	0.07	725.83	171.46	190.75	181.64	74.07	-6.31	0.000
119.00	0.00	-0.03	0.00	0.0	0.00	0.00	725.83	171.46	190.75	181.64	76.71	-6.31	0.000

Load Case: 0.9D + 1.0W	119 mph wind with no ice	26 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	-30.27	-15.11	0.00	-1,334.8	0.00	1,334.83	2,813.31	725.65	2,732.26	2,413.98	0	0	0.564
5.00	-29.38	-14.89	0.00	-1,259.3	0.00	1,259.26	2,747.79	699.53	2,539.19	2,272.29	0.11	-0.2	0.565
10.00	-28.51	-14.67	0.00	-1,184.8	0.00	1,184.82	2,679.61	673.42	2,353.20	2,132.56	0.44	-0.42	0.567
15.00	-27.65	-14.47	0.00	-1,111.4	0.00	1,111.45	2,608.76	647.31	2,174.28	1,995.03	0.99	-0.64	0.568
20.00	-26.82	-14.28	0.00	-1,039.1	0.00	1,039.09	2,535.24	621.20	2,002.44	1,859.96	1.79	-0.88	0.570
25.00	-26.01	-14.11	0.00	-967.7	0.00	967.68	2,459.06	595.09	1,837.67	1,727.58	2.85	-1.13	0.571
30.00	-25.23	-13.94	0.00	-897.2	0.00	897.16	2,380.22	568.98	1,679.97	1,598.16	4.17	-1.39	0.573
35.00	-24.46	-13.77	0.00	-827.5	0.00	827.48	2,298.17	542.87	1,529.34	1,471.58	5.78	-1.68	0.574
40.00	-23.72	-13.63	0.00	-758.6	0.00	758.62	2,187.63	516.76	1,385.79	1,332.77	7.7	-1.97	0.581
43.88	-23.02	-13.53	0.00	-705.8	0.00	705.75	2,101.86	496.50	1,279.27	1,229.78	9.4	-2.22	0.586
45.00	-22.70	-13.45	0.00	-690.6	0.00	690.59	2,077.10	490.65	1,249.31	1,200.82	9.93	-2.29	0.344
48.33	-21.80	-13.32	0.00	-645.8	0.00	645.76	2,003.41	473.25	1,162.25	1,116.68	11.58	-2.43	0.340
50.00	-21.25	-13.22	0.00	-623.6	0.00	623.56	1,966.57	464.54	1,119.91	1,075.76	12.44	-2.5	0.334
52.50	-20.43	-13.09	0.00	-590.5	0.00	590.51	1,293.31	322.59	771.23	704.07	13.78	-2.6	0.413
55.00	-19.81	-12.94	0.00	-557.8	0.00	557.77	1,268.09	313.45	728.15	670.62	15.16	-2.7	0.403
60.00	-18.61	-12.76	0.00	-493.1	0.00	493.07	1,215.65	295.17	645.70	605.07	18.12	-2.94	0.381
62.00	-18.13	-12.66	0.00	-467.6	0.00	467.55	1,193.93	287.85	614.11	579.41	19.38	-3.04	0.372
65.00	-17.40	-12.50	0.00	-429.6	0.00	429.57	1,160.55	276.89	568.21	541.55	21.33	-3.19	0.357
70.00	-16.23	-12.28	0.00	-367.1	0.00	367.08	1,094.76	258.60	495.66	476.80	24.8	-3.43	0.332
75.00	-15.08	-12.10	0.00	-305.7	0.00	305.69	1,017.37	240.32	428.07	411.45	28.52	-3.67	0.305
77.00	-12.76	-9.91	0.00	-281.5	0.00	281.49	986.41	233.01	402.42	386.66	30.08	-3.77	0.291
80.00	-12.10	-9.79	0.00	-251.8	0.00	251.75	939.98	222.04	365.43	350.92	32.5	-3.91	0.278
82.00	-11.65	-9.69	0.00	-232.2	0.00	232.16	780.36	184.34	293.89	282.62	34.16	-4.01	0.000
82.00	-11.65	-9.69	0.00	-232.2	0.00	232.16	909.02	214.73	341.76	328.05	34.16	-4.01	0.267
85.00	-11.00	-9.54	0.00	-203.1	0.00	203.08	740.57	174.94	264.69	254.39	36.72	-4.15	0.264
90.00	-9.95	-9.39	0.00	-155.4	0.00	155.39	674.25	159.27	219.41	210.64	41.19	-4.38	0.226
90.13	-9.92	-9.32	0.00	-154.2	0.00	154.17	672.53	158.86	218.29	209.56	41.31	-4.39	0.225
90.13	-9.92	-9.32	0.00	-154.2	0.00	154.17	672.53	158.86	218.29	209.56	41.31	-4.39	0.754
95.00	-9.41	-9.22	0.00	-108.8	0.00	108.77	607.93	143.61	178.38	171.01	45.9	-4.59	0.656
96.90	-9.16	-9.06	0.00	-91.3	0.00	91.26	582.73	137.65	163.90	157.04	47.78	-4.87	0.601
97.00	-5.84	-5.85	0.00	-90.4	0.00	90.35	581.40	137.34	163.16	156.32	47.89	-4.88	0.590
99.00	-5.71	-5.82	0.00	-78.6	0.00	78.65	725.83	171.46	190.75	181.64	49.99	-5.17	0.442
99.00	-5.71	-5.82	0.00	-78.6	0.00	78.65	554.88	131.07	148.61	142.28	49.99	-5.17	0.565
100.00	-5.62	-5.76	0.00	-72.8	0.00	72.83	725.83	171.46	190.75	181.64	51.09	-5.31	0.410
105.00	-5.28	-5.65	0.00	-44.1	0.00	44.06	725.83	171.46	190.75	181.64	56.89	-5.75	0.251
107.00	-2.54	-3.37	0.00	-32.8	0.00	32.76	725.83	171.46	190.75	181.64	59.33	-5.87	0.184
110.00	-2.36	-3.24	0.00	-22.6	0.00	22.64	725.83	171.46	190.75	181.64	63.05	-6	0.128
115.00	-2.06	-3.11	0.00	-6.4	0.00	6.43	725.83	171.46	190.75	181.64	69.39	-6.11	0.039
117.00	-0.06	-0.03	0.00	-0.1	0.00	0.06	725.83	171.46	190.75	181.64	71.95	-6.12	0.000
119.00	0.00	-0.03	0.00	0.0	0.00	0.00	725.83	171.46	190.75	181.64	74.5	-6.12	0.000

Load Case: 1.2D + 1.0Di + 1.0Wi	50 mph wind with 1" radial ice		25 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	-51.03	-3.96	0.00	-354.1	0.00	354.12	2,813.31	725.65	2,732.26	2,413.98	0	0	0.165
5.00	-49.70	-3.91	0.00	-334.3	0.00	334.32	2,747.79	699.53	2,539.19	2,272.29	0.03	-0.05	0.165
10.00	-48.39	-3.86	0.00	-314.8	0.00	314.78	2,679.61	673.42	2,353.20	2,132.56	0.12	-0.11	0.166
15.00	-47.11	-3.81	0.00	-295.5	0.00	295.49	2,608.76	647.31	2,174.28	1,995.03	0.26	-0.17	0.166
20.00	-45.85	-3.77	0.00	-276.4	0.00	276.43	2,535.24	621.20	2,002.44	1,859.96	0.48	-0.23	0.167
25.00	-44.63	-3.73	0.00	-257.6	0.00	257.57	2,459.06	595.09	1,837.67	1,727.58	0.76	-0.3	0.167
30.00	-43.45	-3.70	0.00	-238.9	0.00	238.91	2,380.22	568.98	1,679.97	1,598.16	1.11	-0.37	0.168
35.00	-42.30	-3.66	0.00	-220.4	0.00	220.43	2,298.17	542.87	1,529.34	1,471.58	1.54	-0.45	0.168
40.00	-41.19	-3.63	0.00	-202.1	0.00	202.12	2,187.63	516.76	1,385.79	1,332.77	2.05	-0.52	0.171
43.88	-40.14	-3.61	0.00	-188.0	0.00	188.03	2,101.86	496.50	1,279.27	1,229.78	2.5	-0.59	0.172
45.00	-39.70	-3.59	0.00	-184.0	0.00	183.99	2,077.10	490.65	1,249.31	1,200.82	2.64	-0.61	0.101
48.33	-38.38	-3.55	0.00	-172.0	0.00	172.02	2,003.41	473.25	1,162.25	1,116.68	3.08	-0.65	0.100
50.00	-37.60	-3.52	0.00	-166.1	0.00	166.10	1,966.57	464.54	1,119.91	1,075.76	3.31	-0.66	0.098
52.50	-36.44	-3.49	0.00	-157.3	0.00	157.29	1,293.31	322.59	771.23	704.07	3.66	-0.69	0.122
55.00	-35.55	-3.45	0.00	-148.6	0.00	148.57	1,268.09	313.45	728.15	670.62	4.03	-0.72	0.119
60.00	-33.80	-3.40	0.00	-131.3	0.00	131.34	1,215.65	295.17	645.70	605.07	4.82	-0.78	0.113
62.00	-33.11	-3.37	0.00	-124.6	0.00	124.55	1,193.93	287.85	614.11	579.41	5.15	-0.81	0.110
65.00	-32.08	-3.32	0.00	-114.4	0.00	114.44	1,160.55	276.89	568.21	541.55	5.68	-0.85	0.106
70.00	-30.39	-3.26	0.00	-97.8	0.00	97.83	1,094.76	258.60	495.66	476.80	6.6	-0.91	0.099
75.00	-28.73	-3.21	0.00	-81.5	0.00	81.52	1,017.37	240.32	428.07	411.45	7.59	-0.98	0.091
77.00	-24.10	-2.66	0.00	-75.1	0.00	75.11	986.41	233.01	402.42	386.66	8.01	-1	0.086
80.00	-23.14	-2.62	0.00	-67.1	0.00	67.14	939.98	222.04	365.43	350.92	8.65	-1.04	0.082
82.00	-22.50	-2.59	0.00	-61.9	0.00	61.89	780.36	184.34	293.89	282.62	9.09	-1.07	0.000
82.00	-22.50	-2.59	0.00	-61.9	0.00	61.89	909.02	214.73	341.76	328.05	9.09	-1.07	0.079
85.00	-21.57	-2.54	0.00	-54.1	0.00	54.12	740.57	174.94	264.69	254.39	9.77	-1.11	0.079
90.00	-20.06	-2.49	0.00	-41.4	0.00	41.40	674.25	159.27	219.41	210.64	10.97	-1.17	0.068
90.13	-20.02	-2.48	0.00	-41.1	0.00	41.08	672.53	158.86	218.29	209.56	11	-1.17	0.068
90.13	-20.02	-2.48	0.00	-41.1	0.00	41.08	672.53	158.86	218.29	209.56	11	-1.17	0.226
95.00	-19.28	-2.45	0.00	-29.0	0.00	29.02	607.93	143.61	178.38	171.01	12.22	-1.22	0.202
96.90	-18.80	-2.41	0.00	-24.4	0.00	24.37	582.73	137.65	163.90	157.04	12.72	-1.3	0.188
97.00	-12.07	-1.59	0.00	-24.1	0.00	24.13	581.40	137.34	163.16	156.32	12.75	-1.3	0.175
99.00	-11.87	-1.58	0.00	-21.0	0.00	20.96	725.83	171.46	190.75	181.64	13.31	-1.38	0.132
99.00	-11.87	-1.58	0.00	-21.0	0.00	20.96	554.88	131.07	148.61	142.28	13.31	-1.38	0.169
100.00	-11.77	-1.56	0.00	-19.4	0.00	19.38	725.83	171.46	190.75	181.64	13.6	-1.41	0.123
105.00	-11.24	-1.53	0.00	-11.6	0.00	11.57	725.83	171.46	190.75	181.64	15.15	-1.53	0.079
107.00	-5.87	-0.89	0.00	-8.5	0.00	8.52	725.83	171.46	190.75	181.64	15.8	-1.56	0.055
110.00	-5.57	-0.84	0.00	-5.9	0.00	5.86	725.83	171.46	190.75	181.64	16.79	-1.6	0.040
115.00	-5.06	-0.79	0.00	-1.6	0.00	1.65	725.83	171.46	190.75	181.64	18.48	-1.62	0.016
117.00	-0.12	-0.01	0.00	-0.0	0.00	0.03	725.83	171.46	190.75	181.64	19.16	-1.63	0.000
119.00	0.00	-0.01	0.00	0.0	0.00	0.00	725.83	171.46	190.75	181.64	19.84	-1.63	0.000

Load Case: 1.0D + 1.0W	60 mph Wind with No Ice	24 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	-33.67	-3.46	0.00	-309.0	0.00	309.00	2,813.31	725.65	2,732.26	2,413.98	0	0	0.140
5.00	-32.73	-3.42	0.00	-291.7	0.00	291.68	2,747.79	699.53	2,539.19	2,272.29	0.03	-0.05	0.140
10.00	-31.82	-3.37	0.00	-274.6	0.00	274.61	2,679.61	673.42	2,353.20	2,132.56	0.1	-0.1	0.141
15.00	-30.93	-3.33	0.00	-257.8	0.00	257.76	2,608.76	647.31	2,174.28	1,995.03	0.23	-0.15	0.141
20.00	-30.06	-3.29	0.00	-241.1	0.00	241.12	2,535.24	621.20	2,002.44	1,859.96	0.42	-0.2	0.142
25.00	-29.23	-3.25	0.00	-224.7	0.00	224.68	2,459.06	595.09	1,837.67	1,727.58	0.66	-0.26	0.142
30.00	-28.42	-3.22	0.00	-208.4	0.00	208.43	2,380.22	568.98	1,679.97	1,598.16	0.97	-0.32	0.142
35.00	-27.63	-3.18	0.00	-192.4	0.00	192.35	2,298.17	542.87	1,529.34	1,471.58	1.34	-0.39	0.143
40.00	-26.87	-3.15	0.00	-176.4	0.00	176.43	2,187.63	516.76	1,385.79	1,332.77	1.79	-0.46	0.145
43.88	-26.12	-3.13	0.00	-164.2	0.00	164.20	2,101.86	496.50	1,279.27	1,229.78	2.18	-0.51	0.146
45.00	-25.79	-3.11	0.00	-160.7	0.00	160.69	2,077.10	490.65	1,249.31	1,200.82	2.3	-0.53	0.086
48.33	-24.80	-3.09	0.00	-150.3	0.00	150.31	2,003.41	473.25	1,162.25	1,116.68	2.69	-0.56	0.085
50.00	-24.21	-3.06	0.00	-145.2	0.00	145.17	1,966.57	464.54	1,119.91	1,075.76	2.89	-0.58	0.083
52.50	-23.32	-3.04	0.00	-137.5	0.00	137.51	1,293.31	322.59	771.23	704.07	3.2	-0.6	0.103
55.00	-22.66	-3.00	0.00	-129.9	0.00	129.92	1,268.09	313.45	728.15	670.62	3.52	-0.63	0.101
60.00	-21.36	-2.96	0.00	-114.9	0.00	114.91	1,215.65	295.17	645.70	605.07	4.21	-0.68	0.095
62.00	-20.84	-2.94	0.00	-109.0	0.00	108.99	1,193.93	287.85	614.11	579.41	4.5	-0.71	0.093
65.00	-20.07	-2.90	0.00	-100.2	0.00	100.17	1,160.55	276.89	568.21	541.55	4.95	-0.74	0.089
70.00	-18.80	-2.85	0.00	-85.6	0.00	85.65	1,094.76	258.60	495.66	476.80	5.76	-0.8	0.083
75.00	-17.55	-2.81	0.00	-71.4	0.00	71.38	1,017.37	240.32	428.07	411.45	6.63	-0.85	0.077
77.00	-14.86	-2.31	0.00	-65.8	0.00	65.75	986.41	233.01	402.42	386.66	6.99	-0.88	0.073
80.00	-14.13	-2.28	0.00	-58.8	0.00	58.82	939.98	222.04	365.43	350.92	7.55	-0.91	0.069
82.00	-13.64	-2.26	0.00	-54.2	0.00	54.25	780.36	184.34	293.89	282.62	7.94	-0.93	0.000
82.00	-13.64	-2.26	0.00	-54.2	0.00	54.25	909.02	214.73	341.76	328.05	7.94	-0.93	0.067
85.00	-12.94	-2.23	0.00	-47.5	0.00	47.46	740.57	174.94	264.69	254.39	8.53	-0.97	0.066
90.00	-11.79	-2.19	0.00	-36.3	0.00	36.33	674.25	159.27	219.41	210.64	9.57	-1.02	0.057
90.13	-11.76	-2.18	0.00	-36.0	0.00	36.05	672.53	158.86	218.29	209.56	9.6	-1.02	0.057
90.13	-11.76	-2.18	0.00	-36.0	0.00	36.05	672.53	158.86	218.29	209.56	9.6	-1.02	0.190
95.00	-11.23	-2.15	0.00	-25.4	0.00	25.45	607.93	143.61	178.38	171.01	10.67	-1.07	0.167
96.90	-10.96	-2.11	0.00	-21.4	0.00	21.36	582.73	137.65	163.90	157.04	11.11	-1.13	0.155
97.00	-7.01	-1.37	0.00	-21.2	0.00	21.15	581.40	137.34	163.16	156.32	11.13	-1.14	0.147
99.00	-6.88	-1.37	0.00	-18.4	0.00	18.40	725.83	171.46	190.75	181.64	11.62	-1.2	0.111
99.00	-6.88	-1.37	0.00	-18.4	0.00	18.40	554.88	131.07	148.61	142.28	11.62	-1.2	0.142
100.00	-6.81	-1.35	0.00	-17.0	0.00	17.04	725.83	171.46	190.75	181.64	11.88	-1.24	0.103
105.00	-6.44	-1.32	0.00	-10.3	0.00	10.29	725.83	171.46	190.75	181.64	13.23	-1.34	0.066
107.00	-3.18	-0.79	0.00	-7.6	0.00	7.65	725.83	171.46	190.75	181.64	13.8	-1.37	0.047
110.00	-2.97	-0.76	0.00	-5.3	0.00	5.27	725.83	171.46	190.75	181.64	14.67	-1.4	0.033
115.00	-2.63	-0.72	0.00	-1.5	0.00	1.49	725.83	171.46	190.75	181.64	16.15	-1.42	0.012
117.00	-0.07	-0.01	0.00	-0.0	0.00	0.02	725.83	171.46	190.75	181.64	16.75	-1.43	0.000
119.00	0.00	-0.01	0.00	0.0	0.00	0.00	725.83	171.46	190.75	181.64	17.35	-1.43	0.000

EQUIVALENT LATERAL FORCES METHOD ANALYSIS
(Based on ASCE7-16 Chapters 11, 12 and 15)

Spectral Response Acceleration for Short Period (S_S):	0.207
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.054
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a :	1.600
Site Coefficient F_v :	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.221
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.086
Seismic Response Coefficient (C_s):	0.030
Upper Limit C_s :	0.030
Lower Limit C_s :	0.030
Period based on Rayleigh Method (sec):	2.740
Redundancy Factor (ρ):	1.000
Seismic Force Distribution Exponent (k):	2.000
Total Unfactored Dead Load:	33.670 k
Seismic Base Shear (E):	1.010 k

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)
36	118	66	926	0.005	5	83
35	116	139	1,864	0.009	9	172
34	112.5	346	4,383	0.022	22	431
33	108.5	208	2,446	0.012	12	259
32	106	144	1,618	0.008	8	179
31	102.5	360	3,781	0.019	19	448
30	99.5	72	713	0.004	4	90
29	98	130	1,244	0.006	6	161
28	96.95	7	67	0.000	0	9
27	95.95	136	1,253	0.006	6	169
26	92.565	530	4,539	0.022	23	659
25	90.065	30	240	0.001	1	37
24	87.5	1,151	8,811	0.043	44	1,432
23	83.5	701	4,890	0.024	24	873
22	81	483	3,166	0.016	16	600
21	78.5	729	4,494	0.022	22	907
20	76	495	2,858	0.014	14	616
19	72.5	1,250	6,568	0.032	33	1,555
18	67.5	1,267	5,774	0.028	29	1,577
17	63.5	769	3,100	0.015	15	957
16	61	516	1,921	0.010	10	642
15	57.5	1,303	4,307	0.021	21	1,621
14	53.75	658	1,901	0.009	9	819
13	51.25	884	2,323	0.011	12	1,100
12	49.1667	596	1,440	0.007	7	741
11	46.6667	983	2,141	0.011	11	1,223
10	44.44	333	657	0.003	3	414
9	41.94	743	1,307	0.006	7	924
8	37.5	758	1,066	0.005	5	944
7	32.5	784	828	0.004	4	975
6	27.5	809	612	0.003	3	1,007
5	22.5	834	422	0.002	2	1,038
4	17.5	860	263	0.001	1	1,070
3	12.5	885	138	0.001	1	1,101

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
2	7.5	910	51	0.000	0	1,133
1	2.5	936	6	0.000	0	1,164
Commscope WCS-IMFQ-AMT	117	30	404	0.002	2	37
Raycap DC6-48-60-18-8F(32.8 lbs)	117	33	449	0.002	2	41
Ericsson RRUS 4426 B66	117	145	1,988	0.010	10	181
Ericsson RRUS 4478 B14	117	180	2,460	0.012	12	224
Ericsson RRUS 4449 B5, B12	117	213	2,916	0.014	15	265
Ericsson RRUS 32 B2	117	159	2,177	0.011	11	198
Ericsson RRUS-32 B30 (77 lbs)	117	231	3,162	0.016	16	287
Raycap DC9-48-60-24-8C-EV	117	16	219	0.001	1	20
Generic Round T-Arm	117	938	12,833	0.063	64	1,166
Generic Round T-Arm	77	938	5,558	0.027	28	1,166
CCI TPA65R-BU6D	117	202	2,772	0.014	14	252
Kathrein Scala 80010965	117	293	4,008	0.020	20	364
Raycap RDIDC-9181-PF-48	107	22	251	0.001	1	27
Fujitsu TA08025-B605	107	225	2,576	0.013	13	280
Fujitsu TA08025-B604	107	192	2,195	0.011	11	239
JMA Wireless MX08FRO665-21	107	194	2,215	0.011	11	241
Generic Round Platform with Handrails	107	2,500	28,622	0.141	142	3,110
Generic Round Platform with Handrails	97	2,500	23,522	0.116	117	3,110
Ericsson Radio 4449 B71 B85A	97	225	2,117	0.010	11	280
Ericsson RRUS 4415 B25	97	138	1,298	0.006	6	172
Ericsson Air6449 B41	97	312	2,936	0.014	15	388
Ericsson AIR32 B66Aa/B2a	97	397	3,732	0.018	19	493
RFS APXVAARR24_43-U-NA20	97	384	3,610	0.018	18	477
Ericsson RRUS 01 B2 w/ Solar Shield	96.9	132	1,239	0.006	6	164
Samsung B2/B66A RRH-BR049	77	253	1,501	0.007	7	315
Samsung B5/B13 RRH-BR04C	77	211	1,250	0.006	6	262
RFS DB-C1-12C-24AB-0Z	77	32	190	0.001	1	40
Samsung MT6407-77A	77	245	1,451	0.007	7	305
Quintel QS6656-5D	77	528	3,131	0.015	16	657
		33,668	202,903	1.000	1,010	41,889

0.9D - 1.0Ev + 1.0Eh Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
36	118	66	926	0.005	5	57
35	116	139	1,864	0.009	9	119
34	112.5	346	4,383	0.022	22	296
33	108.5	208	2,446	0.012	12	178
32	106	144	1,618	0.008	8	123
31	102.5	360	3,781	0.019	19	308
30	99.5	72	713	0.004	4	62
29	98	130	1,244	0.006	6	111
28	96.95	7	67	0.000	0	6
27	95.95	136	1,253	0.006	6	116
26	92.565	530	4,539	0.022	23	453
25	90.065	30	240	0.001	1	25
24	87.5	1,151	8,811	0.043	44	985
23	83.5	701	4,890	0.024	24	600
22	81	483	3,166	0.016	16	413
21	78.5	729	4,494	0.022	22	624
20	76	495	2,858	0.014	14	424
19	72.5	1,250	6,568	0.032	33	1,069
18	67.5	1,267	5,774	0.028	29	1,085
17	63.5	769	3,100	0.015	15	658
16	61	516	1,921	0.010	10	442
15	57.5	1,303	4,307	0.021	21	1,115
14	53.75	658	1,901	0.009	9	563
13	51.25	884	2,323	0.011	12	757
12	49.1667	596	1,440	0.007	7	510
11	46.6667	983	2,141	0.011	11	842

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
10	44.44	333	657	0.003	3	285
9	41.94	743	1,307	0.006	7	636
8	37.5	758	1,066	0.005	5	649
7	32.5	784	828	0.004	4	671
6	27.5	809	612	0.003	3	692
5	22.5	834	422	0.002	2	714
4	17.5	860	263	0.001	1	736
3	12.5	885	138	0.001	1	757
2	7.5	910	51	0.000	0	779
1	2.5	936	6	0.000	0	801
Commscope WCS-IMFQ-AMT	117	30	404	0.002	2	25
Raycap DC6-48-60-18-8F(32.8 lbs)	117	33	449	0.002	2	28
Ericsson RRUS 4426 B66	117	145	1,988	0.010	10	124
Ericsson RRUS 4478 B14	117	180	2,460	0.012	12	154
Ericsson RRUS 4449 B5, B12	117	213	2,916	0.014	15	182
Ericsson RRUS 32 B2	117	159	2,177	0.011	11	136
Ericsson RRUS-32 B30 (77 lbs)	117	231	3,162	0.016	16	198
Raycap DC9-48-60-24-8C-EV	117	16	219	0.001	1	14
Generic Round T-Arm	117	938	12,833	0.063	64	802
Generic Round T-Arm	77	938	5,558	0.027	28	802
CCI TPA65R-BU6D	117	202	2,772	0.014	14	173
Kathrein Scala 80010965	117	293	4,008	0.020	20	251
Raycap RDIDC-9181-PF-48	107	22	251	0.001	1	19
Fujitsu TA08025-B605	107	225	2,576	0.013	13	193
Fujitsu TA08025-B604	107	192	2,195	0.011	11	164
JMA Wireless MX08FRO665-21	107	194	2,215	0.011	11	166
Generic Round Platform with Handrails	107	2,500	28,622	0.141	142	2,140
Generic Round Platform with Handrails	97	2,500	23,522	0.116	117	2,140
Ericsson Radio 4449 B71 B85A	97	225	2,117	0.010	11	193
Ericsson RRUS 4415 B25	97	138	1,298	0.006	6	118
Ericsson Air6449 B41	97	312	2,936	0.014	15	267
Ericsson AIR32 B66Aa/B2a	97	397	3,732	0.018	19	339
RFS APXVAARR24_43-U-NA20	97	384	3,610	0.018	18	328
Ericsson RRUS 01 B2 w/ Solar Shield	96.9	132	1,239	0.006	6	113
Samsung B2/B66A RRH-BR049	77	253	1,501	0.007	7	217
Samsung B5/B13 RRH-BR04C	77	211	1,250	0.006	6	180
RFS DB-C1-12C-24AB-0Z	77	32	190	0.001	1	27
Samsung MT6407-77A	77	245	1,451	0.007	7	210
Quintel QS6656-5D	77	528	3,131	0.015	16	452
		33,668	202,903	1.000	1,010	28,815

1.2D + 1.0Ev + 1.0Eh Seismic

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-40.72	-1.01	0.00	-101.33	0.00	101.33	2,813.31	725.65	2,732	2,413.98	0.00	0.00	0.06
5.00	-39.59	-1.02	0.00	-96.26	0.00	96.26	2,747.79	699.53	2,539	2,272.29	0.01	-0.02	0.06
10.00	-38.49	-1.04	0.00	-91.14	0.00	91.14	2,679.61	673.42	2,353	2,132.56	0.03	-0.03	0.06
15.00	-37.42	-1.04	0.00	-85.96	0.00	85.96	2,608.76	647.31	2,174	1,995.03	0.08	-0.05	0.06
20.00	-36.38	-1.05	0.00	-80.74	0.00	80.74	2,535.24	621.20	2,002	1,859.96	0.14	-0.07	0.06
25.00	-35.38	-1.06	0.00	-75.47	0.00	75.47	2,459.06	595.09	1,838	1,727.58	0.22	-0.09	0.06
30.00	-34.40	-1.07	0.00	-70.16	0.00	70.16	2,380.22	568.98	1,680	1,598.16	0.32	-0.11	0.06
35.00	-33.46	-1.07	0.00	-64.82	0.00	64.82	2,298.17	542.87	1,529	1,471.58	0.45	-0.13	0.06
40.00	-32.53	-1.08	0.00	-59.44	0.00	59.44	2,187.63	516.76	1,386	1,332.77	0.59	-0.15	0.06
43.88	-32.12	-1.08	0.00	-55.26	0.00	55.26	2,101.86	496.50	1,279	1,229.78	0.73	-0.17	0.06
45.00	-30.89	-1.07	0.00	-54.05	0.00	54.05	2,077.10	490.65	1,249	1,200.82	0.77	-0.18	0.04
48.33	-30.15	-1.07	0.00	-50.48	0.00	50.48	2,003.41	473.25	1,162	1,116.68	0.90	-0.19	0.04
50.00	-29.05	-1.05	0.00	-48.71	0.00	48.71	1,966.57	464.54	1,120	1,075.76	0.96	-0.19	0.03
52.50	-28.23	-1.05	0.00	-46.07	0.00	46.07	1,933.31	322.59	771	704.07	1.07	-0.20	0.04
55.00	-26.61	-1.02	0.00	-43.46	0.00	43.46	1,268.09	313.45	728	670.62	1.17	-0.21	0.04
60.00	-25.97	-1.02	0.00	-38.34	0.00	38.34	1,215.65	295.17	646	605.07	1.40	-0.23	0.04
62.00	-25.01	-1.00	0.00	-36.31	0.00	36.31	1,193.93	287.85	614	579.41	1.50	-0.24	0.04
62.00	-25.01	-1.00	0.00	-36.31	0.00	36.31	1,193.93	287.85	614	579.41	1.50	-0.24	0.04
65.00	-23.44	-0.97	0.00	-33.30	0.00	33.30	1,160.55	276.89	568	541.55	1.65	-0.25	0.04

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
70.00	-21.88	-0.94	0.00	-28.43	0.00	28.43	1,094.76	258.60	496	476.80	1.92	-0.27	0.03
75.00	-21.27	-0.93	0.00	-23.72	0.00	23.72	1,017.37	240.32	428	411.45	2.21	-0.29	0.03
77.00	-17.61	-0.83	0.00	-21.87	0.00	21.87	986.41	233.01	402	386.66	2.33	-0.29	0.03
80.00	-17.01	-0.81	0.00	-19.39	0.00	19.39	939.98	222.04	365	350.92	2.52	-0.30	0.03
82.00	-16.14	-0.78	0.00	-17.77	0.00	17.77	909.02	214.73	342	328.05	2.65	-0.31	0.03
82.00	-16.14	-0.78	0.00	-17.77	0.00	17.77	780.36	184.34	294	282.62	2.65	-0.31	0.00
85.00	-14.71	-0.74	0.00	-15.42	0.00	15.42	740.57	174.94	265	254.39	2.85	-0.32	0.03
90.00	-14.67	-0.74	0.00	-11.74	0.00	11.74	674.25	159.27	219	210.64	3.20	-0.34	0.02
90.13	-14.01	-0.71	0.00	-11.65	0.00	11.65	672.53	158.86	218	209.56	3.21	-0.34	0.02
90.13	-14.01	-0.71	0.00	-11.65	0.00	11.65	672.53	158.86	218	209.56	3.21	-0.34	0.08
95.00	-13.84	-0.71	0.00	-8.18	0.00	8.18	607.93	143.61	178	171.01	3.56	-0.36	0.07
96.90	-13.67	-0.70	0.00	-6.83	0.00	6.83	582.73	137.65	164	157.04	3.71	-0.38	0.07
97.00	-8.59	-0.48	0.00	-6.76	0.00	6.76	581.40	137.34	163	156.32	3.72	-0.38	0.06
99.00	-8.50	-0.48	0.00	-5.80	0.00	5.80	554.88	131.07	149	142.28	3.88	-0.40	0.06
99.00	-8.50	-0.48	0.00	-5.80	0.00	5.80	725.83	171.46	191	181.64	3.88	-0.40	0.04
100.00	-8.05	-0.46	0.00	-5.32	0.00	5.32	725.83	171.46	191	181.64	3.96	-0.41	0.04
105.00	-7.87	-0.45	0.00	-3.02	0.00	3.02	725.83	171.46	191	181.64	4.41	-0.44	0.03
107.00	-3.72	-0.23	0.00	-2.12	0.00	2.12	725.83	171.46	191	181.64	4.60	-0.45	0.02
110.00	-3.29	-0.21	0.00	-1.42	0.00	1.42	725.83	171.46	191	181.64	4.88	-0.46	0.01
115.00	-3.12	-0.20	0.00	-0.39	0.00	0.39	725.83	171.46	191	181.64	5.36	-0.46	0.01
117.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	171.46	191	181.64	5.56	-0.46	0.00
119.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	171.46	191	181.64	5.75	-0.46	0.00

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 (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-28.01	-1.01	0.00	-98.61	0.00	98.61	2,813.31	725.65	2,732	2,413.98	0.00	0.00	0.05
5.00	-27.23	-1.02	0.00	-93.55	0.00	93.55	2,747.79	699.53	2,539	2,272.29	0.01	-0.02	0.05
10.00	-26.48	-1.03	0.00	-88.45	0.00	88.45	2,679.61	673.42	2,353	2,132.56	0.03	-0.03	0.05
15.00	-25.74	-1.03	0.00	-83.32	0.00	83.32	2,608.76	647.31	2,174	1,995.03	0.07	-0.05	0.05
20.00	-25.03	-1.04	0.00	-78.16	0.00	78.16	2,535.24	621.20	2,002	1,859.96	0.13	-0.07	0.05
25.00	-24.33	-1.04	0.00	-72.97	0.00	72.97	2,459.06	595.09	1,838	1,727.58	0.21	-0.08	0.05
30.00	-23.66	-1.05	0.00	-67.76	0.00	67.76	2,380.22	568.98	1,680	1,598.16	0.31	-0.10	0.05
35.00	-23.01	-1.05	0.00	-62.54	0.00	62.54	2,298.17	542.87	1,529	1,471.58	0.43	-0.13	0.05
40.00	-22.38	-1.05	0.00	-57.30	0.00	57.30	2,187.63	516.76	1,386	1,332.77	0.58	-0.15	0.05
43.88	-22.09	-1.05	0.00	-53.24	0.00	53.24	2,101.86	496.50	1,279	1,229.78	0.70	-0.17	0.05
45.00	-21.25	-1.04	0.00	-52.07	0.00	52.07	2,077.10	490.65	1,249	1,200.82	0.74	-0.17	0.03
48.33	-20.74	-1.03	0.00	-48.61	0.00	48.61	2,003.41	473.25	1,162	1,116.68	0.87	-0.18	0.03
50.00	-19.98	-1.02	0.00	-46.89	0.00	46.89	1,966.57	464.54	1,120	1,075.76	0.93	-0.19	0.03
52.50	-19.42	-1.01	0.00	-44.34	0.00	44.34	1,293.31	322.59	771	704.07	1.03	-0.20	0.04
55.00	-18.31	-0.99	0.00	-41.81	0.00	41.81	1,268.09	313.45	728	670.62	1.14	-0.20	0.04
60.00	-17.86	-0.98	0.00	-36.86	0.00	36.86	1,215.65	295.17	646	605.07	1.36	-0.22	0.04
62.00	-17.21	-0.97	0.00	-34.89	0.00	34.89	1,193.93	287.85	614	579.41	1.45	-0.23	0.03
62.00	-17.21	-0.97	0.00	-34.89	0.00	34.89	1,193.93	287.85	614	579.41	1.45	-0.23	0.03
65.00	-16.12	-0.94	0.00	-31.99	0.00	31.99	1,160.55	276.89	568	541.55	1.60	-0.24	0.03
70.00	-15.05	-0.91	0.00	-27.30	0.00	27.30	1,094.76	258.60	496	476.80	1.86	-0.26	0.03
75.00	-14.63	-0.89	0.00	-22.77	0.00	22.77	1,017.37	240.32	428	411.45	2.14	-0.28	0.03
77.00	-12.11	-0.80	0.00	-20.98	0.00	20.98	986.41	233.01	402	386.66	2.26	-0.28	0.03
80.00	-11.70	-0.78	0.00	-18.60	0.00	18.60	939.98	222.04	365	350.92	2.44	-0.29	0.03
82.00	-11.10	-0.75	0.00	-17.04	0.00	17.04	909.02	214.73	342	328.05	2.56	-0.30	0.02
82.00	-11.10	-0.75	0.00	-17.04	0.00	17.04	780.36	184.34	294	282.62	2.56	-0.30	0.00
85.00	-10.12	-0.71	0.00	-14.78	0.00	14.78	740.57	174.94	265	254.39	2.76	-0.31	0.02
90.00	-10.09	-0.71	0.00	-11.25	0.00	11.25	674.25	159.27	219	210.64	3.09	-0.33	0.02
90.13	-9.64	-0.68	0.00	-11.16	0.00	11.16	672.53	158.86	218	209.56	3.10	-0.33	0.02
90.13	-9.64	-0.68	0.00	-11.16	0.00	11.16	672.53	158.86	218	209.56	3.10	-0.33	0.07
95.00	-9.52	-0.68	0.00	-7.83	0.00	7.83	607.93	143.61	178	171.01	3.44	-0.34	0.06
96.90	-9.40	-0.67	0.00	-6.54	0.00	6.54	582.73	137.65	164	157.04	3.58	-0.36	0.06
97.00	-5.91	-0.46	0.00	-6.47	0.00	6.47	581.40	137.34	163	156.32	3.59	-0.36	0.05
99.00	-5.85	-0.46	0.00	-5.55	0.00	5.55	554.88	131.07	149	142.28	3.75	-0.38	0.05
99.00	-5.85	-0.46	0.00	-5.55	0.00	5.55	725.83	171.46	191	181.64	3.75	-0.38	0.04
100.00	-5.54	-0.44	0.00	-5.09	0.00	5.09	725.83	171.46	191	181.64	3.83	-0.39	0.04
105.00	-5.41	-0.43	0.00	-2.89	0.00	2.89	725.83	171.46	191	181.64	4.26	-0.42	0.02
107.00	-2.56	-0.22	0.00	-2.02	0.00	2.02	725.83	171.46	191	181.64	4.44	-0.43	0.02
110.00	-2.26	-0.20	0.00	-1.36	0.00	1.36	725.83	171.46	191	181.64	4.71	-0.44	0.01
115.00	-2.14	-0.19	0.00	-0.37	0.00	0.37	725.83	171.46	191	181.64	5.18	-0.45	0.01
117.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	171.46	191	181.64	5.36	-0.45	0.00

ASSET: 283420, STONEYBROOK RD CT
CUSTOMER: DISH WIRELESS L.L.C.

CODE: ANSI/TIA-222-H
ENG NO: 13712876_C3_04

Seg	Pu	Vu	Tu	Mu	Mu	Resultant	Phi	Phi	Phi	Phi	Total	Rotation	Ratio
Elev	FY (-)	FX (-)	MY	MZ	Mx	Moment	Pn	Vn	Tn	Mn	Deflect	(deg)	
(ft)	(kips)	(kips)	(ft-kips)	(fr-kips)	(ft-kips)	(ft-kips)	(kips)	(kips)	(kips)	(kips)	(in)		
119.00	0.00	0.00	0.00	0.00	0.00	0.00	725.83	171.46	191	181.64	5.55	-0.45	0.00

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	15.13	0.00	40.37	0.00	0.00	1364.30	90.13	0.78
0.9D + 1.0W	15.11	0.00	30.27	0.00	0.00	1334.83	90.13	0.75
1.2D + 1.0Di + 1.0Wi	3.96	0.00	51.03	0.00	0.00	354.12	90.13	0.23
1.2D + 1.0Ev + 1.0Eh	1.08	0.00	40.72	0.00	0.00	101.33	90.13	0.08
0.9D - 1.0Ev + 1.0Eh	1.05	0.00	28.01	0.00	0.00	98.61	90.13	0.07
1.0D + 1.0W	3.46	0.00	33.67	0.00	0.00	309.00	90.13	0.19

ADDITIONAL STEEL SUMMARY

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors				Max member		
			VQ/I	Shear Applied (kips)	Shear (phiVn) (kips)	Ratio	Pu (kip)	PhiPn (kip)	Ratio
43.88	62.00	PL PL 6" x 1"	377.8	9.1	25.3	0.3588	181.5	300.9	0.6034
62.00	82.00	PL PL 6" x 1"	464.8	11.2	25.3	0.4414	172.2	300.9	0.5722
82.00	90.13	PL PL 6" x 1"	529.6	12.7	25.3	0.503	127.8	300.9	0.4248

Elev From (ft)	Elev To (ft)	Member	Upper Termination Connectors					Lower Termination Connectors				
			MQ/I	phiVn (kips)	Num Reqd	Num Actual	Ratio	MQ/I (kips)	phiVn (kip)	Num Reqd	Num Actual	Ratio
43.88	62.00	PL PL 6" x 1"	0	25.27	0	0	0.0000	158.2712	25.27	7	8	0.7829
62.00	82.00	PL PL 6" x 1"	0	25.27	0	0	0.0000	0	25.27	0	0	0.0000
82.00	90.13	PL PL 6" x 1"	104.9366	25.27	5	8	0.5191	0	25.27	0	0	0.0000



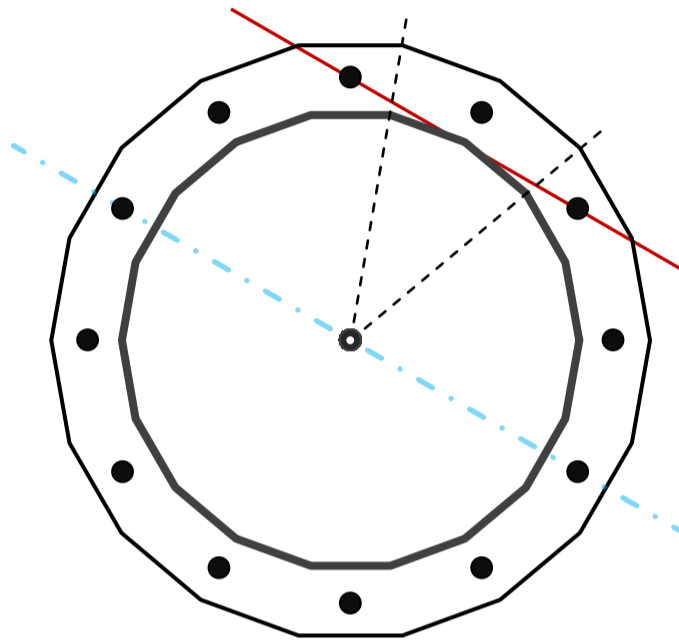
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	18	-
Diameter	42	in
Thickness	5/16	in
Orientation Offset		°

Base Reactions		
Moment, Mu	1,364.3	k-ft
Axial, Pu	40.4	k
Shear, Vu	15.1	k
Neutral Axis	330	°

Report Capacities		
Component	Capacity	Result
Base Plate	31%	Pass
Anchor Rods	50%	Pass
Dwyidag	-	-

Base Plate		
Number of Sides	18	-
Diameter, ϕ	55.15	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 1/2	in
Applied Moment, Mu	278.8	k
Bending Stress, ϕMn	901.1	k



Original Anchor Rods		
Arrangement	Radial	-
Quantity	12	-
Diameter, ϕ	2 1/4	in
Bolt Circle	49.15	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	12.9	in
Orientation Offset		°
Applied Force, Pu	119.9	k
Anchor Rods, ϕPn	243.6	k

Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	15.1	1364.3	1.00
Anchor Rod Forces	15.1	1364.3	1.00
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	0.0	0.00
Stiffener Forces	0.0	0.0	0.00

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in ²	in ²	in ⁴	#	in ⁴
Pole	40.7191	2.2622	0.0739		8846.79
Bolt	3.9761	3.2477	0.8393	4.5	10668.51
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	18	-
Width, W	55.15	in
Thickness, t	2	in
Yield Strength, Fy	50	ksi
Tensile Strength, Fu	65	ksi
Base Plate Chord	35.742	in
Detail Type	d	-
Detail Factor	0.50	-
Clear Distance	3.5	-

Anchor Rods

Anchor Rod Quantity, N	12	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	49.15	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	119.9	k
Applied Shear, Vu	1.0	k
Compressive Capacity, ϕP_n	243.6	k
Tensile Capacity, ϕR_n	0.492	OK
Interaction Capacity	0.501	OK

External Base Plate

Chord Length AA	35.869	in
Additional AA	4.000	in
Section Modulus, Z	39.869	in ³
Applied Moment, Mu	278.8	k-ft
Bending Capacity, ϕM_n	1794.1	k-ft
Capacity, $M_u/\phi M_n$	0.155	OK

Chord Length AB	35.219	in
Additional AB	4.000	in
Section Modulus, Z	39.219	in ³
Applied Moment, Mu	239.9	k-ft
Bending Capacity, ϕM_n	1764.9	k-ft
Capacity, $M_u/\phi M_n$	0.136	OK

Bend Line Length	20.024	in
Additional Bend Line	0.000	in
Section Modulus, Z	20.024	in ³
Applied Moment, Mu	278.8	k-ft
Bending Capacity, ϕM_n	901.1	k-ft
Capacity, $M_u/\phi M_n$	0.309	OK

Internal Base Plate

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

Base/Flange Plate	Plate Type	Flange @ 82.0 ft
	Pole Diameter	17.8375 in
	Pole Thickness	0.1875 in
	Plate Diameter	24.2 in
	Plate Thickness	1.5 in
	Plate Fy	50 ksi
	Weld Length	0.1875 in
	ϕ_s Resistance	6527.34 k-in
	Applied	-17.00 k-in
Stiffeners	#	6 Show
	Thickness	1 in
	Length	8 in
	Height	12 in
	Chamfer	0 in
	Offset Angle	30 °
	Fy	65 ksi

Code Rev. **H**

Date **10/19/2021**
 Engineer **OTO**
 Site # **283420**
 Carrier **Dish Wireless**

Moment **240.2 k-ft**
 Axial **15.7 k**

Bolts	#	3
	Bolt Circle (R)adial / (S)quare	21.7 in R
	Diameter	1 in
	Hole Diameter	1.125 in
	Type	A325
	Fy	92 ksi
	Fu	120 ksi
	ϕ_s Resistance Applied	54.52 k 5.24 k
Bypass	#	6
	DYW. Circle	28.25 in
	Offset Angle	°
	Type	Other
	Diameter	2.2567 in
	Fu	50 ksi
ϕ_s Resistance Applied	159.99 k 54.52 k	
Flat Plate O	#	3
	Bolt Circle (R)adial / (S)quare	19 in R
	Offset Angle	°
	Diameter	2.76395 in
	Type	Other
	Fy	50 ksi
	Fu	65 ksi
	ϕ_s Resistance Applied	243.22 k 31.42 k

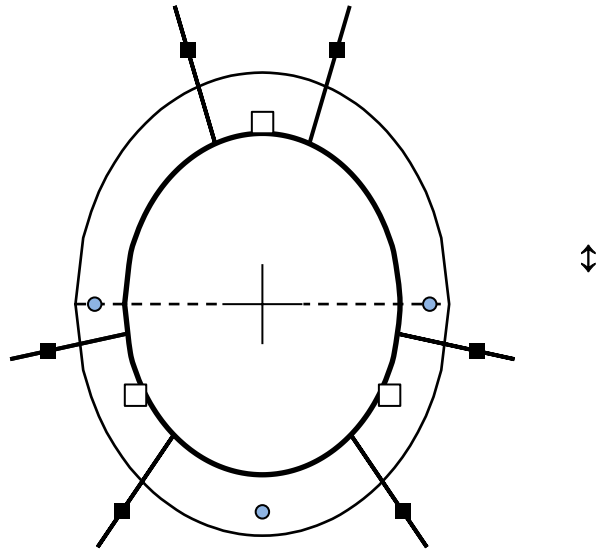


Plate Stress Ratio:
0.00 (Pass)

Bolt Stress Ratio:
0.10 (Pass)

Flat Plate Stress Ratio:
0.13 (Pass)

Bypass Stress Ratio:
0.34 (Pass)

Flange Plate Analysis

Flange Plate	Plate Type	Flange	@ 99 ft
	Pole Diameter	12.5625	in
	Pole Thickness	0.25	in
	Plate Diameter	18	in
	Plate Thickness	1 1/4	in
	Plate Fy	50	ksi
	Weld Length	1/4	in
	f _s Resistance	74.21	k-in
	Applied	20.02	k-in

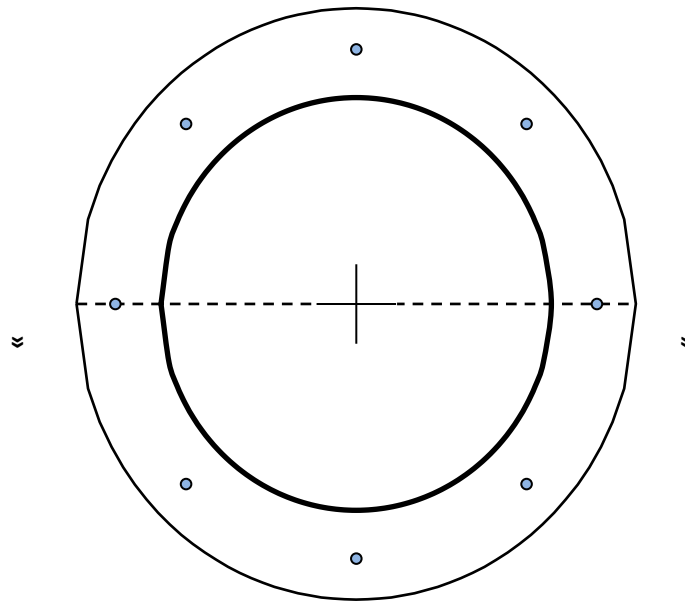
Code Rev.	H
Moment	81.5 k-ft
Axial	7.8 k

Date	10/19/2021
Engineer	OTO
Site #	283420
Carrier	DISH WIRELESS

Required Flange Thickness:
0.65 in OK

Stiffeners	#	
------------	---	--

Bolts	#	8	
	Bolt Circle	15.5	in
	(R)adial / (S)quare	R	
	Diameter	1	in
	Hole Diameter	1 1/8	in
	Type	A325	
	Fy	92	ksi
	Fu	120	ksi
	f _s Resistance	54.52	k
	Applied	30.51	k



Reinforcement	#	
---------------	---	--

Plate Stress Ratio:
27% Pass

Bolt Stress Ratio:
56% Pass

Extra Bolts	O	
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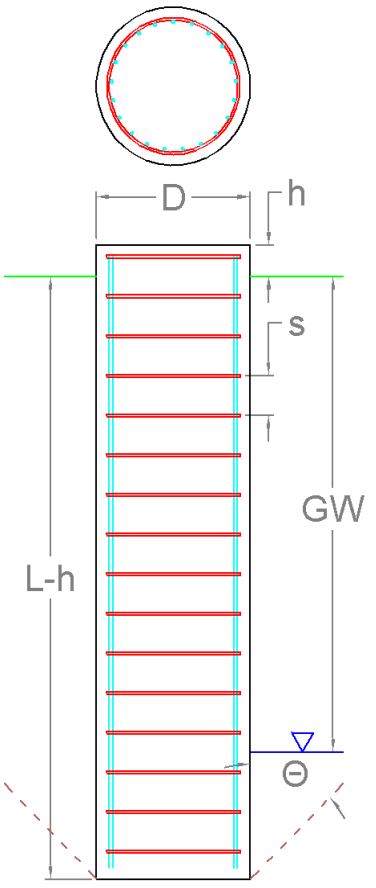
Pier Foundation Analysis (ANSI/TIA-222-H)

Foundation Analysis Parameters			
Pier Diameter	D	6.50	ft
Pier Embedment	$L-h$	31.0	ft
Pier Height above Ground	H	0.50	ft
Water Table Depth [BGL]	GW	7	ft
Pullout Angle	Θ	30	°
Unit Weight of Concrete		150	pcf
Uplift Skin Friction Factor		0.860	

Reactions		
Moment, M_u	1,364.3	k-ft
Shear, V_u	15.1	k
Axial, P_u	40.4	k
Uplift, T_u	0.0	k

Soil Properties						
Layer Depth (ft)		Unit Weight	Cohesion	Friction Angle	Ultimate Skin Friction	Ultimate Bearing Pressure
TOP	BTM	pcf	psf	°	psf	psf
0.0	4.0	105	0	0	0	0
4.0	7.0	123	0	32	691	0
7.0	10.0	127	0	37	1,051	0
10.0	15.0	122	0	34	1,258	0
15.0	20.0	121	0	33	1,420	0
20.0	25.0	118	0	32	1,544	0
25.0	30.0	114	0	30	1,149	0
30.0	35.0	127	0	34	1,706	44,220

Soil Strength Capacities		
Volume of Concrete	1,045.3	ft ³
Weight of Concrete [Buoyancy Considered]	107.1	k
Average Soil Unit Weight	70.1	pcf
Skin Friction Resistance	689.9	k
Compressive Bearing Resistance	1,467.4	k
Pullout Weight [Minus Concrete Weight]	1,126.8	k
Compressive Force, P_u	79.3	k
Nominal Compressive Capacity, $\phi_s P_n$	1,618.0	k
$P_u / \phi_s P_n$	4.9%	
Total Lateral Resistance	2,110.2	k
Inflection Point [BGL]	20.3	ft
Moment at Inflection Point, M_D	1,679.6	k-ft
Nominal Moment Capacity, $\phi_s M_n$	10,024.0	k-ft
$M_D / \phi_s M_n$	16.8%	



Pier Strength Capacities

Concrete Compressive Strength, f'_c	4,000	psi
Rebar Size #	9	
Rebar Area (Single)	1.00	in ²
Rebar Quantity	24	
Rebar Yield Strength, F_y	60	ksi
Vertical Rebar Clear Cover	3	in
Tie Rebar Size #	4	
Tie Rebar Area (Single)	0.20	in ²
Tie Rebar Spacing	12.0	in
Tie Rebar Yield Strength, F_y	60	ksi
Rebar Cage Diameter	69.87	in
Strength Bending/Tension Reduction Factor, ϕ_B	0.90	
Strength Shear Reduction Factor, ϕ_V	0.75	
Strength Compression Reduction Factor, ϕ_C	0.65	
Steel Elastic Modulus	29,000	ksi
Design Moment, M_u	1,372.6	k-ft
Moment Capacity, $\phi_B M_n$	3,695.1	k-ft
$M_u / \phi_B M_n$	37.1%	
Design Shear, V_u	105.0	k
Shear Capacity, $\phi_V V_n$	548.8	k
$V_u / \phi_V V_n$	19.1%	
Design Compression, P_u	79.3	k
Compression Capacity, $\phi_P P_n$	9,154.5	k
$P_u / \phi_P P_n$	0.9%	
Bending Reinforcement Ratio	0.005	





DISH WIRELESS, L.L.C. SITE ID:

NJJER02048A

DISH WIRELESS, L.L.C. SITE ADDRESS:

**23 STONYBROOK ROAD
STRATFORD, CT 06614**

SCOPE OF WORK	
THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:	
TOWER SCOPE OF WORK:	
<ul style="list-style-type: none"> • INSTALL (3) PROPOSED PANEL ANTENNAS (1 PER SECTOR) • INSTALL (1) PROPOSED ANTENNA PLATFORM MOUNT • INSTALL PROPOSED JUMPERS • INSTALL (6) PROPOSED RRUs (2 PER SECTOR) • INSTALL (1) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP) • INSTALL (1) PROPOSED HYBRID CABLE 	
GROUND SCOPE OF WORK:	
<ul style="list-style-type: none"> • INSTALL (1) PROPOSED METAL PLATFORM • INSTALL (1) PROPOSED CABLE TRAY • INSTALL (1) PROPOSED PPC CABINET • INSTALL (1) PROPOSED EQUIPMENT CABINET • INSTALL (1) PROPOSED POWER CONDUIT • INSTALL (1) PROPOSED TELCO CONDUIT • INSTALL (1) PROPOSED TELCO-FIBER BOX • INSTALL (1) PROPOSED GPS UNIT • INSTALL (1) PROPOSED SAFETY SWITCH (IF REQUIRED) • INSTALL (1) PROPOSED CIENA BOX (IF REQUIRED) • INSTALL (1) PROPOSED METER SOCKET 	

SITE INFORMATION		PROJECT DIRECTORY	
PROPERTY OWNER:	STONYBROOK MANAGEMENT LLC	APPLICANT:	DISH WIRELESS, L.L.C.
ADDRESS:	23 STONYBROOK ROAD STRATFORD, CT 06614		5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
TOWER TYPE:	MONOPOLE	TOWER OWNER:	AMERICAN TOWER
TOWER CO SITE ID:	283420		10 PRESIDENTIAL WAY WOBURN, MA 01801
TOWER APP NUMBER:	13712876_D2	ENGINEER:	ATC TOWER SERVICES, LLC
COUNTY:	FAIRFIELD		3500 REGENCY PARKWAY SUITE 100 CARY, NC 27518
LATITUDE (NAD 83):	41° 12' 11.800" N 41.20327777	SITE ACQUISITION:	WILLIAM SNIDER WILLIAM.SNIDER@DISH.COM
LONGITUDE (NAD 83):	73° 8' 55.050" W -73.148625	CONSTRUCTION MANAGER:	VICTOR CORREA VICTOR.CORREA@DISH.COM
ZONING JURISDICTION:	CITY OF STRATFORD	RF ENGINEER:	MURUGABIRAN JAYAPAL MURUGABIRAN.JAYAPAL@DISH.COM
ZONING DISTRICT:	RESIDENTIAL		
PARCEL NUMBER:	3011100013		
OCCUPANCY GROUP:	U		
CONSTRUCTION TYPE:	II-B		
POWER COMPANY:	UNITED ILLUMINATING		
TELEPHONE COMPANY:	FRONTIER COMMUNICATIONS		



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



DRAWN BY: CHECKED BY: APPROVED BY:

JD SRF SRF

RFDS REV #: ----

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
0	10/29/2021	ISSUED FOR CONSTRUCTION
1	11/29/2021	ANTENNA MODEL
2	05/26/2022	PROP OWNER&PARCEL UPDT

CONNECTICUT CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	2018 CT STATE BUILDING CODE/2015 IBC W/ CT AMENDMENTS
MECHANICAL	2018 CT STATE BUILDING CODE/2015 IMC W/ CT AMENDMENTS
ELECTRICAL	2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS

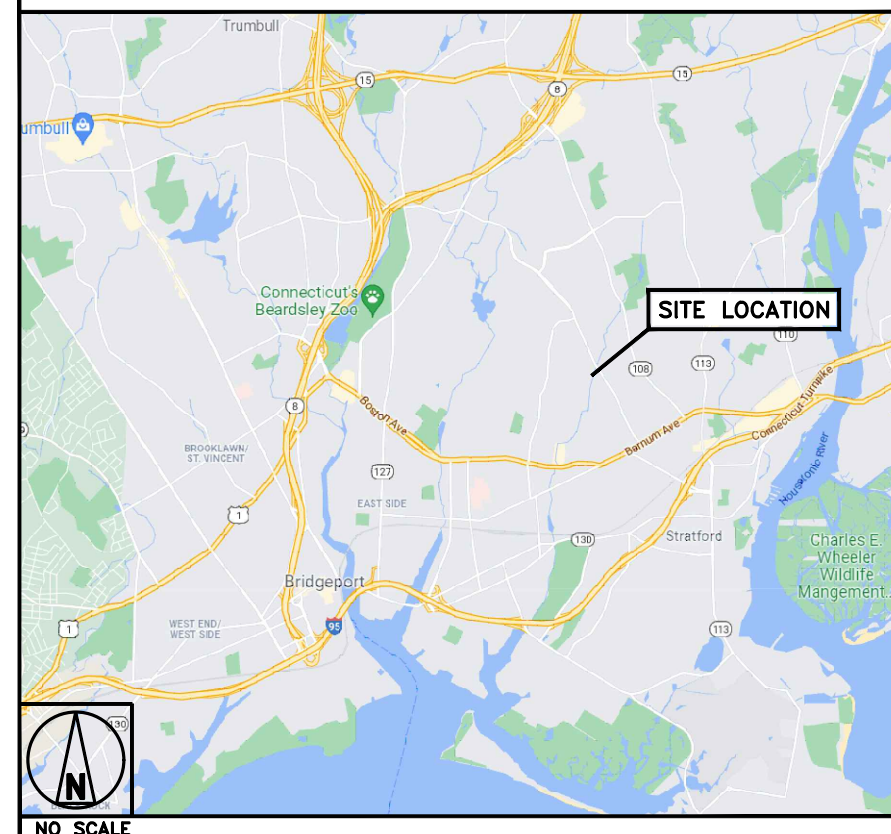
SITE PHOTO



DIRECTIONS

HEAD NORTHEAST TOWARD ADP BLVD. TURN LEFT. TURN LEFT TOWARD ADP BLVD. TURN LEFT ONTO ADP BLVD. TURN RIGHT ONTO BECKER FARM RD. TURN LEFT ONTO LIVINGSTON AVE. TURN RIGHT ONTO EAGLE ROCK AVE. TURN LEFT ONTO FOREST WAY. TURN RIGHT ONTO FELS RD. TURN RIGHT ONTO BLOOMFIELD AVE. TURN LEFT ONTO GROVE AVE. TURN RIGHT ONTO W BRADFORD AVE. TURN LEFT ONTO RIDGE RD. TURN RIGHT ONTO RESERVOIR DR. TURN RIGHT ONTO NORMAL AVE. USE ANY LANE TO TURN LEFT ONTO VALLEY RD. TURN RIGHT ONTO THE NJ-3 E RAMP TO LINCOLN TUNNEL. KEEP LEFT AT THE FORK AND MERGE ONTO US-46 E. USE THE RIGHT LANE TO TAKE THE RAMP ONTO GARDEN STATE PKWY. MERGE ONTO GARDEN STATE PKWY. KEEP LEFT TO STAY ON GARDEN STATE PKWY. CONTINUE ONTO NJ-44 W/GARDEN STATE PKWY. CONTINUE ONTO GARDEN STATE PARKWAY CONNECTOR. USE ANY LANE TO TAKE EXIT 14-1 FOR I-87 S/I-287 E TOWARD NEW YORK CITY. KEEP RIGHT, FOLLOW SIGNS FOR NANUET. CONTINUE ONTO OLD NYACK TURNPIKE. TAKE THE RAMP ON THE LEFT ONTO I-287 E/I-87 S. KEEP LEFT AT THE FORK TO CONTINUE ON I-287 E. FOLLOW SIGNS FOR WHITE PLAINS/RYE. MERGE ONTO I-95 N. TAKE EXIT 32 TOWARD W BROAD ST/STRATFORD. KEEP LEFT, FOLLOW SIGNS FOR WEST BROAD ST/LORDSHIP/STRATFORD CENTER/R.R. STATION AND MERGE ONTO W BROAD ST. MERGE ONTO W BROAD ST. TURN LEFT TO STAY ON W BROAD ST. CONTINUE STRAIGHT TO STAY ON W BROAD ST. TURN RIGHT ONTO CALIFORNIA ST. CALIFORNIA ST TURNS LEFT AND BECOMES BROADBRIDGE AVE. TURN LEFT ONTO STONYBROOK RD.

VICINITY MAP



SHEET INDEX

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
A-0	EXISTING SURVEY
A-1	OVERALL AND ENLARGED SITE PLAN
A-2	ELEVATION, ANTENNA LAYOUT AND SCHEDULE
A-3	EQUIPMENT PLATFORM AND H-FRAME DETAILS
A-4	EQUIPMENT DETAILS
A-5	EQUIPMENT DETAILS
A-6	EQUIPMENT DETAILS
E-1	ELECTRICAL/FIBER ROUTE PLAN AND NOTES
E-2	ELECTRICAL DETAILS
E-3	ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE
G-1	GROUNDING PLANS AND NOTES
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
RF-1	RF CABLE COLOR CODE
GN-1	LEGEND AND ABBREVIATIONS
GN-2	GENERAL NOTES
GN-3	GENERAL NOTES
GN-4	GENERAL NOTES



UNDERGROUND SERVICE ALERT CBYD 811
UTILITY NOTIFICATION CENTER OF CONNECTICUT
(800) 922-4455
WWW.CBYD.COM



CALL 2 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

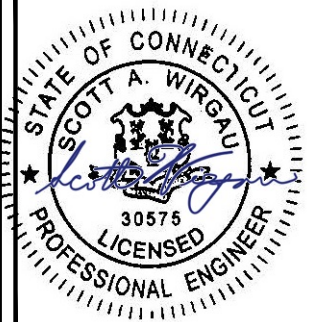
GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE, NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

A&E PROJECT NUMBER
283420-13712876_D2

DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJER02048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
TITLE SHEET

SHEET NUMBER

T-1

PROJECT SUMMARY

SURVEYOR'S NOTES

FIELD SURVEY DATE: 12/16/2016
SITE ADDRESS: 23 STONYBROOK ROAD STRATFORD, CT 06614

PARCEL INFORMATION
 OWNER: STONYBROOK MANAGEMENT LLC
 OWNER ADDRESS: 251 EAST MAIN STREET, STRATFORD, CT 06614
 APN: 3011100016

TOTAL AREAS:
 PARENT PARCEL: 0.73± ACRES ATC LEASE AREA: 2,000 SQ. FT.

GEOGRAPHIC COORDINATES OF TOWER:
 LATITUDE: 41°12'11.85" N LONGITUDE: 73°08'54.78" W
 VERTICAL DATUM: NAVD 1988 HORIZONTAL DATUM: NAD83
 GROUND ELEVATION: 75'

THIS IS TO CERTIFY THAT THE ABOVE INFORMATION IS PROVIDED TO THE FOLLOWING ACCURACY:
 ± TWENTY (20) FEET IN THE HORIZONTAL
 ± THREE (3) FEET IN THE VERTICAL

*BEARINGS ARE THE CONNECTICUT STATE PLANE COORDINATE SYSTEM AND ARE BASED ON GPS OBSERVATIONS.

- THERE IS ACCESS TO THE SUBJECT PROPERTY VIA STONYBROOK ROAD, A PUBLIC RIGHT OF WAY.
- THE LOCATIONS OF ALL UTILITIES SHOWN ON THE SURVEY ARE FROM VISIBLE SURFACE EVIDENCE ONLY.
- AT THE TIME OF THIS SURVEY THERE WAS NO OBSERVABLE SURFACE EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS WITHIN RECENT MONTHS.
- AT THE TIME OF THIS SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF THE SUBJECT PROPERTY BEING USED AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.
- AT THE TIME OF THIS SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF ANY RECENT CHANGES IN STREET RIGHT-OF-WAY LINES EITHER COMPLETED OR PROPOSED, AND AVAILABLE FROM THE CONTROLLING JURISDICTION.
- AT THE TIME OF THIS SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF ANY RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.
- ANGLES OR BEARINGS SHOWN HEREON ARE FORMATTED IN DEGREES, MINUTES, AND SECONDS. DISTANCES OR ELEVATIONS SHOWN HEREON ARE IN U.S. SURVEY FEET, UNLESS NOTED OTHERWISE.
- UNDERGROUND IMPROVEMENTS IF ANY AND NOT VISIBLE AT THE TIME OF THE SURVEY, HAVE NOT BEEN LOCATED IN THE FIELD OR SHOWN HEREON.
- WETLANDS, IF PRESENT, HAVE NOT BEEN LOCATED OR SHOWN HEREON.
- NOT ALL IMPROVEMENTS ON THE PARENT PARCEL BEING SURVEYED ARE SHOWN HEREON.
- REFERENCES:
 A. DEED: BOOK 2604, PAGE 275
 B. MAP ENTITLED: "MAP OF BUILDING LOTS OWNED BY EMIL NYITRAY, STONY BROOK" PREPARED BY W.G. MOREHOUSE ON 7/21/1917.
 C. MAP ENTITLED: "ALTA/ACSM LAND TITLE SURVEY ATC SITE #283420" PREPARED BY JONES ENGINEERING, LLC DATED 04/02/2015.

FLOODPLAIN:
 PER THE FEMA FLOODPLAIN MAPS, THE SITE IS LOCATED IN AN AREA DESIGNATED AS ZONE AE.
 COMMUNITY PANEL NO.: 09001C0434G
 EFFECTIVE DATE: JULY 8, 2013

BOUNDARY NOTE
 THIS SURVEY IS THE RESULT OF AN ACTUAL FIELD SURVEY BASED UPON SUFFICIENT RESEARCH AND FIELD EVIDENCE TO VERIFY THE PARENT PARCEL OF THE SUBJECT PROPERTY. HOWEVER, THIS SURVEYOR HAS RELIED UPON THE DEEDS OF RECORD, AS PROVIDED, THIS SURVEYOR MAKES NO GUARANTEE, EITHER EXPRESSED OR IMPLIED AS TO THE QUALITY OF THE DEED REPORT AND REFERENCE DOCUMENTS PROVIDED AND THE DOCUMENTS PROVED AFFECTING THE LEASE AND IMMEDIATE AREA HAVE BEEN PLOTTED. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM THE RECORD INFORMATION PROVIDED AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

ENCROACHMENT NOTE
 AT THE TIME OF THE SURVEY, THERE WAS VISIBLE EVIDENCE OF AN ENCROACHMENT AS FOLLOWS:

- FENCE OUTSIDE PROVIDED LEASE AREA BY A MAXIMUM OF 0.8' AT THE SOUTHEAST CORNER.
- FENCE OUTSIDE PROVIDED LEASE AREA BY A MAXIMUM OF 0.7' AT THE SOUTHWEST CORNER.
- FENCE OUTSIDE PROVIDED LEASE AREA BY A MAXIMUM OF 0.3' AT THE NORTHWEST CORNER.
- GAS METERS (2) FALL ON THE NORTHERLY BOUNDS OF THE LEASE AREA.

ATC LEASE OR EASEMENT AREA IS CONTAINED ENTIRELY ON THE PARENT PARCEL.

LEGAL DESCRIPTION

PARENT PARCEL - AS PROVIDED:
 PARCEL ONE: ALL THAT CERTAIN PIECE OR PARCEL OF LAND WITH THE BUILDINGS THEREON, SITUATED IN THE TOWN OF STRATFORD, COUNTY OF FAIRFIELD, AND STATE OF CONNECTICUT, COMPRISING LOTS NOS. 129, 130, 131, 132, AND 133 ON MAP OF BUILDING LOTS OWNED BY EMIL NYITRAY, STONY BROOK PARK MADE BY W. G. MOREHOUSE, SURVEYOR, DATED JULY 21, 1917, AND ON FILE IN THE STRATFORD TOWN CLERK'S OFFICE AND TOGETHER BOUNDED:
 NORTHERLY: BY STONY BROOK ROAD, AS SHOWN ON SAID MAP, 160 FEET;
 SOUTHEASTERLY: BY BARNUM TERRACE, AS SHOWN ON SAID MAP, 122.07 FEET;
 SOUTHERLY: BY LOT NO. 144 AND LOT NO. 143 ON SAID MAP, EACH IN PART, IN ALL, 65 FEET;
 WESTERLY: BY LOT NO. 128 ON SAID MAP, 100 FEET.

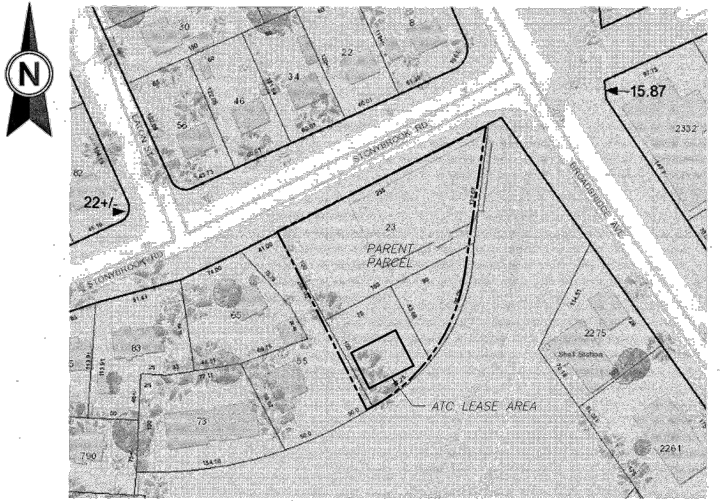
PARCEL TWO: ALL THAT CERTAIN PIECE OR PARCEL OF LAND WITH THE BUILDINGS THEREON, SITUATED IN THE TOWN OF STRATFORD, COUNTY OF FAIRFIELD, AND STATE OF CONNECTICUT, AND KNOWN AND DESIGNATED AS LOTS NOS. 126, 127 AND 128 ON MAP OF STONY BROOK PARK, DATED JULY 21, 1917, MADE BY K. W. LEIGHTON, C.E. AND ON FILE IN THE OFFICE OF THE TOWN CLERK OF SAID STRATFORD, AND BOUNDED:
 NORTHERLY: BY STONY BROOK ROAD, 75 FEET;
 SOUTHEASTERLY: BY LOT NO. 129 ON SAID MAP, 100 FEET;
 SOUTHERLY: BY LOT NO. 140, 141 AND 142 ON SAID MAP, 75 FEET;
 WESTERLY: BY LOT NO. 125 ON SAID MAP, 100 FEET.

PARCEL THREE: ALL THAT CERTAIN PIECE OR PARCEL OF LAND WITH THE BUILDINGS THEREON, SITUATED IN THE TOWN OF STRATFORD, COUNTY OF FAIRFIELD, AND STATE OF CONNECTICUT, AND KNOWN AND DESIGNATED AS LOTS NOS. 143 AND 144 ON MAP OF STONY BROOK PARK, DATED JULY 21, 1917, MADE BY K. W. LEIGHTON, C. E. AND ON FILE IN THE OFFICE OF THE TOWN CLERK OF SAID STRATFORD, AND BOUNDED:
 NORTHERLY: BY LOTS NOS. 129, 130, 131 AND 132 ON SAID MAP, 90 FEET;
 EASTERLY, SOUTHEASTERLY AND SOUTHERLY: ON A CURVED LINE, BEING THE STREET LINE OF RUTH STREET, SO-CALLED, AS SHOWN ON SAID MAP, 125.10 FEET;
 WESTERLY: BY LOT NO. 142 ON SAID MAP, 83.88 FEET.

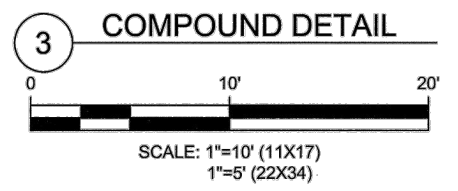
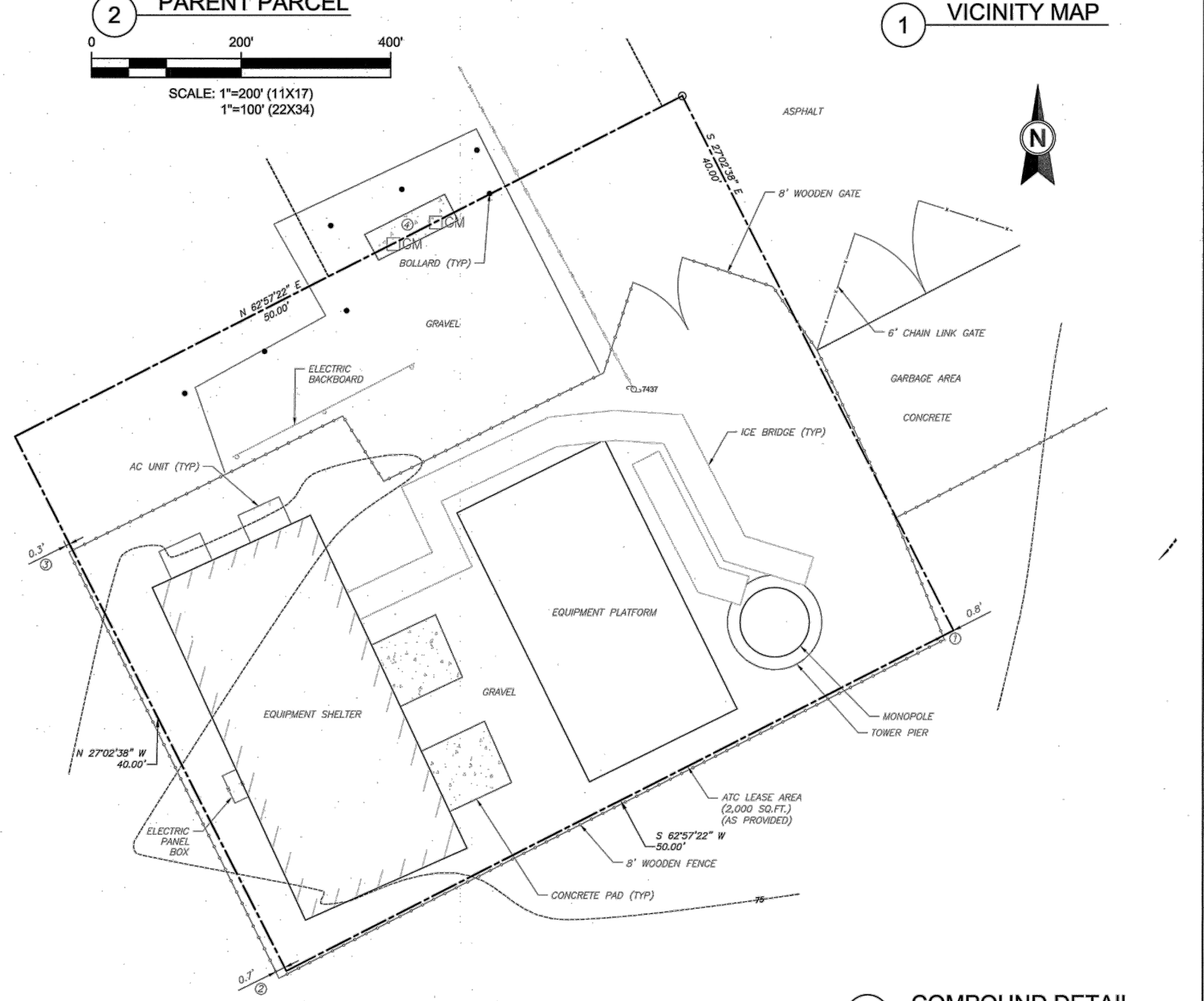
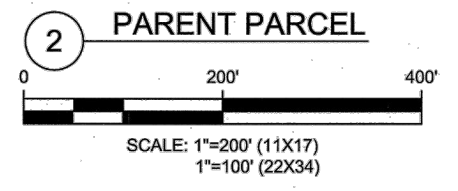
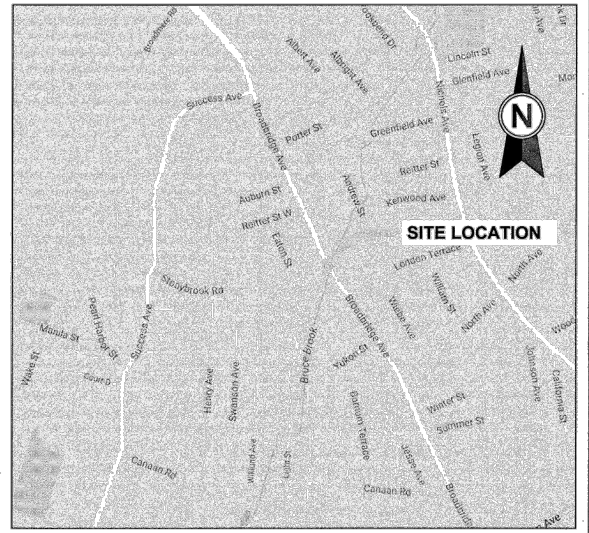
PARCEL FOUR: ALL THAT CERTAIN PIECE OR PARCEL OF LAND WITH THE BUILDINGS THEREON, SITUATED IN THE TOWN OF STRATFORD, COUNTY OF FAIRFIELD, AND STATE OF CONNECTICUT AND KNOWN AND DESIGNATED AS LOTS NOS. 140, 141 AND 142 ON MAP OF STONY BROOK PARK, DATED JULY 21, 1917, MADE BY K. W. LEIGHTON, C. E. AND ON FILE IN THE OFFICE OF THE TOWN CLERK OF SAID STRATFORD, AND BOUNDED:
 NORTHERLY: BY LOTS NOS. 126, 127 AND 128 ON SAID MAP, 75 FEET;
 EASTERLY: BY LOT NO. 143 ON SAID MAP, 83.88 FEET;
 SOUTHERLY: ON RUTH STREET, SO-CALLED, ALONG A CURVED LINE AS SHOWN ON SAID MAP, 77.20 FEET
 WESTERLY: BY LOT NO. 139 ON SAID MAP, 100 FEET.

ATC LEASE AREA - AS PROVIDED & AS SURVEYED:
 ALL THAT CERTAIN PIECE OR PARCEL OF LAND SITUATED IN THE TOWN OF STRATFORD, COUNTY OF FAIRFIELD, AND STATE OF CONNECTICUT, COMPRISING PARTS OF LOTS 140, 141 & 142 ON THE "MAP OF BUILDING LOTS OWNED BY EMIL NYITRAY, STONY BROOK PARK," MADE BY W. C. MOREHOUSE, SURVEYOR, AND K.W. LEIGHTON, CIVIL ENGINEER, DATED JULY 21, 1917, AND ON FILE IN THE STRATFORD TOWN CLERK'S OFFICE, AND BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:
 BEGINNING AT A POINT DISTANT THE FOLLOWING TWO COURSES AND DISTANCES FROM THE SOUTHWEST CORNER OF LOT 140 AS DEPICTED ON SAID MAP:
 1. NORTHERLY ALONG THE WESTERLY LINE OF SAID LOT 140, 18.47 FEET;
 2. EASTERLY AND PERPENDICULAR TO THE WESTERLY LINE OF LOT 140, 11.19 FEET
 RUNNING THENCE NORTHERLY AND PARALLEL WITH THE WESTERLY LINE OF LOT 140, 40.00 FEET;
 THENCE EASTERLY AND PERPENDICULAR TO THE WESTERLY LINE OF LOT 140, 60.00 FEET;
 THENCE SOUTHERLY AND PARALLEL WITH THE WESTERLY LINE OF LOT 140, 40.00 FEET;
 THENCE WESTERLY AND PERPENDICULAR TO THE WESTERLY LINE OF LOT 140, 50.00 FEET TO THE POINT OR PLACE OF BEGINNING.

ACCESS & UTILITY EASEMENT - AS PROVIDED & AS SURVEYED:
 ALL THAT CERTAIN PIECE OR PARCEL OF LAND SITUATED ON THE TOWN OF STRATFORD, COUNTY OF FAIRFIELD, AND STATE OF CONNECTICUT, COMPRISING PARTS OF LOTS 127, 128, 141 & 142 ON THE "MAP OF BUILDING LOTS OWNED BY EMIL NYITRAY, STONY BROOK PARK," MADE BY W. C. MOREHOUSE, SURVEYOR, AND K. W. LEIGHTON, CIVIL ENGINEER, DATED JULY 21, 1917, AND ON FILE IN THE STRATFORD TOWN CLERK'S OFFICE, AND BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:
 BEGINNING AT A POINT ON THE SOUTHERLY SIDE OF STONY BROOK ROAD, DISTANT 32.67 FEET EASTERLY FROM THE NORTHWESTERLY CORNER OF LOT 128 AS DEPICTED ON SAID MAP;
 RUNNING THENCE EASTERLY ALONG THE SOUTHERLY SIDE OF STONY BROOK ROAD, 25.00 FEET;
 THENCE SOUTHERLY ALONG A LINE FORMING AN INTERIOR ANGLE OF 90°-48'-53" WITH THE SOUTHERLY SIDE OF STONY BROOK ROAD, 141.54 FEET;
 THENCE WESTERLY AND PARALLEL WITH THE SOUTHERLY LINE OF STONY BROOK ROAD, 25.00 FEET;
 THENCE NORTHERLY ALONG A LINE FORMING AN INTERIOR ANGLE OF 90°-48'-53" WITH THE LAST MENTIONED COURSE, 141.54 FEET TO THE POINT OR PLACE OF BEGINNING.



- SURVEY LEGEND**
- EXISTING PROPERTY
 - EXISTING ADJ. PROPERTY
 - EXISTING LEASE
 - EXISTING EASEMENT
 - 75' EXISTING CONTOUR (MAJOR)
 - 75' EXISTING CONTOUR (MINOR)
 - EXISTING TREELINE
 - EXISTING CHAIN LINK FENCE
 - CHWV EXISTING OVERHEAD WIRES
 - EXISTING UNDERGROUND GAS
 - EXISTING BUILDING
 - EXISTING ROAD (STONE)
 - EXISTING ROAD (PAVED)
 - SURVEY IRON PIN FOUND
 - EXISTING UTILITY POLE
 - EXISTING GUY ANCHOR
 - EXISTING BOLLARD
 - EXISTING MANHOLE
 - EXISTING GAS METER
 - EXISTING GAS VALVE
 - EXISTING MAGNAIL
 - ENCROACHMENT REF. #



AMERICAN TOWER®
ATC TOWER SERVICES, INC
 3533 REGENCY PARKWAY
 SUITE 133
 CARY, NC 27551
 PHONE: (919) 468-0145
 COA: D-0204

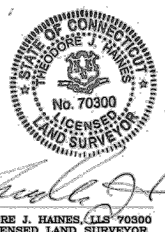
THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	ISSUED FOR COMMENT	RO	12/22/16
1	PER COMMENTS	DTS	01/03/17

ATC SITE NUMBER:
283420

ATC SITE NAME:
STONYBROOK RD CT
CT

SITE ADDRESS:
 23 STONYBROOK ROAD
 STRATFORD, CT 06614



TECTONIC
 Practical Solutions, Exceptional Service

TECTONIC Engineering & Surveying
 Consultants P.C.
 1279 Route 300
 Newburgh, NY 12550
 Phone: (845) 567-6656
 Fax: (845) 567-8703
 www.tectonicengineering.com

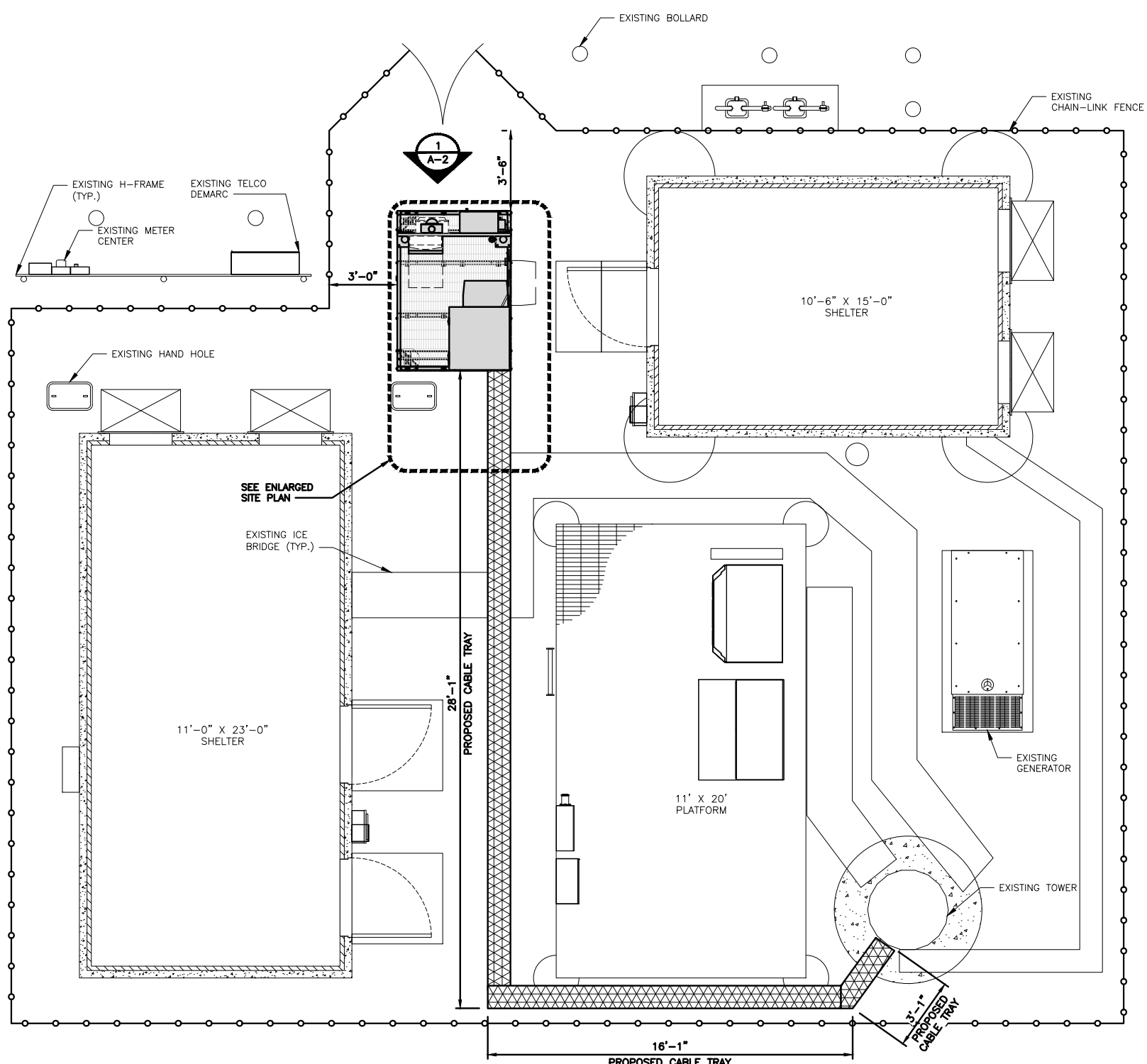
DRAWN BY:	RO
APPROVED BY:	JMK
DATE DRAWN:	12/20/16
ATC JOB NO:	283420

COMPOUND DETAIL & DESCRIPTIONS

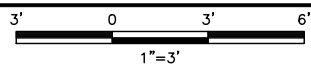
SHEET NUMBER:	REVISION:
V-101	1

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.



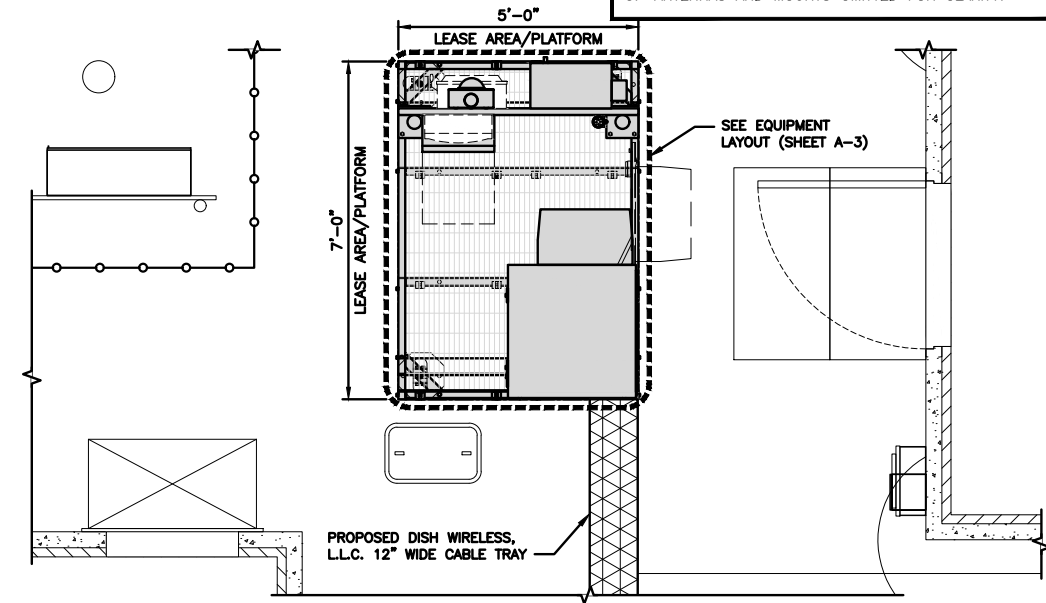
OVERALL SITE PLAN



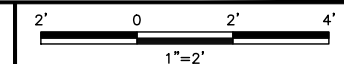
1

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.
3. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.



ENLARGED SITE PLAN



2

EXISTING SURVEY (BY OTHERS)

NO SCALE

3



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

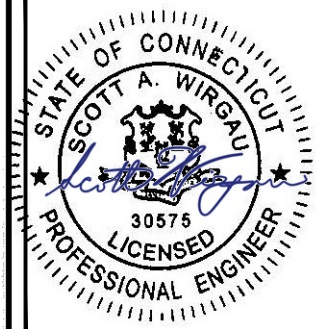
AMERICAN TOWER
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112

DRAWN BY:	CHECKED BY:	APPROVED BY:
JD	SRF	SRF

RFDS REV #: -----

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
0	10/29/2021	ISSUED FOR CONSTRUCTION
1	11/29/2021	ANTENNA MODEL



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

A&E PROJECT NUMBER
283420-13712876_D2

DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJER02048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

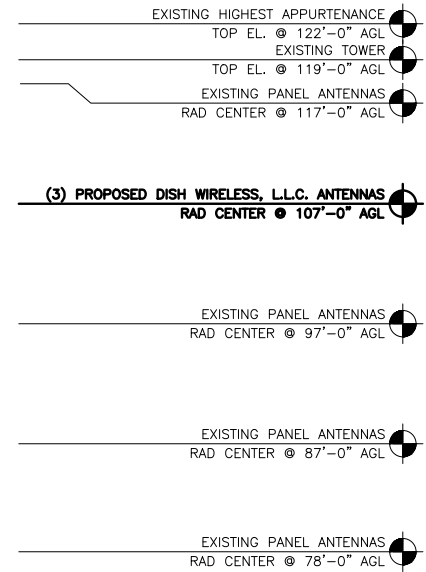
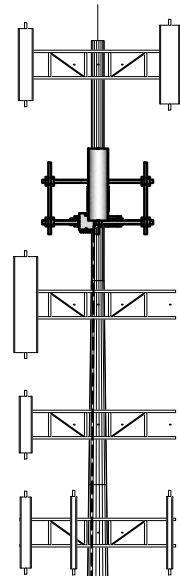
SHEET TITLE
OVERALL AND ENLARGED
SITE PLAN

SHEET NUMBER

A-1

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNA AND MW DISH SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS
3. EXISTING EQUIPMENT AND FENCE OMITTED FOR CLARITY.



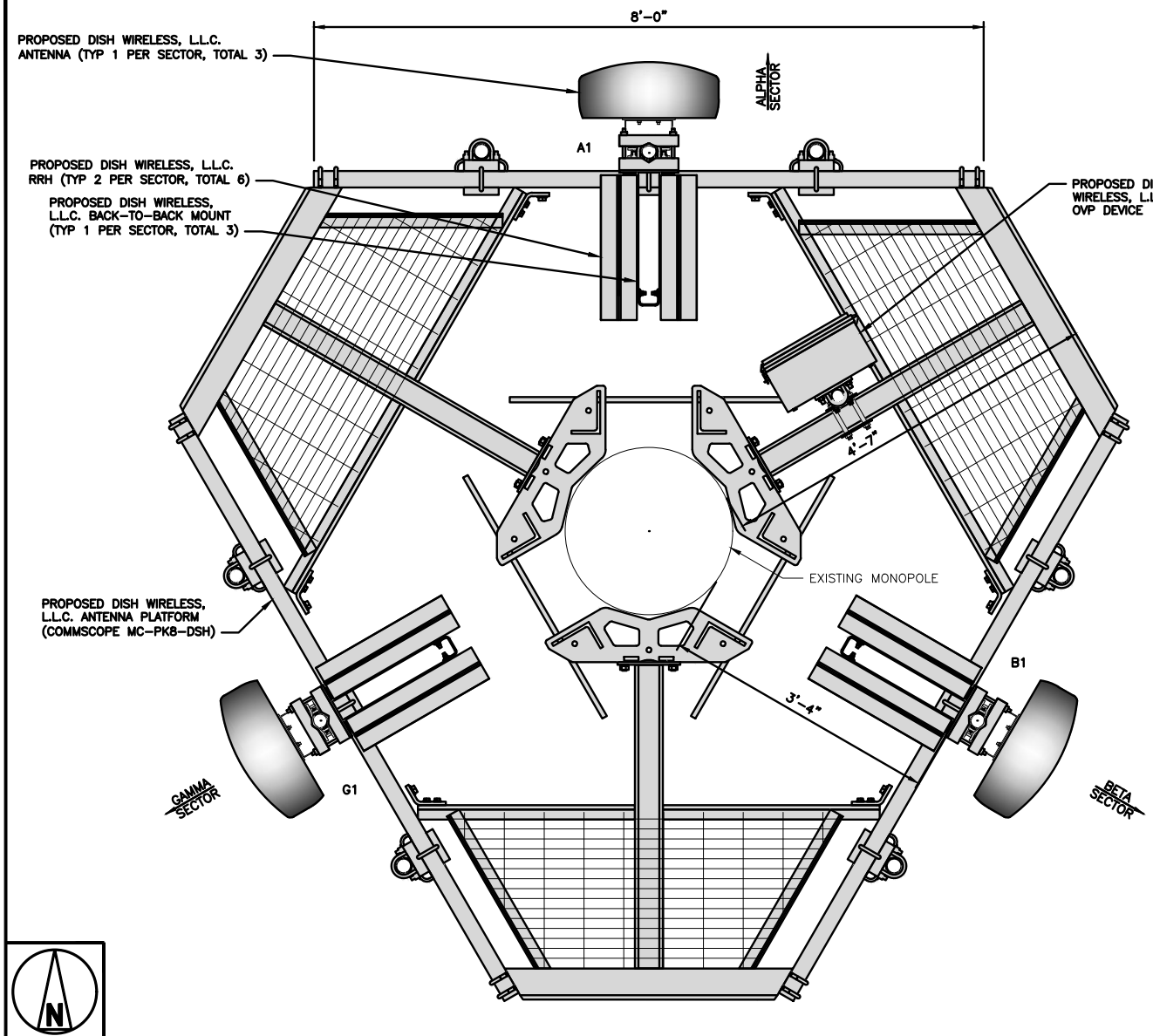
(1) PROPOSED DISH WIRELESS, L.L.C. HYBRID CABLE ROUTED OUTSIDE POLE SHAFT (SEE STRUCTURAL ANALYSIS)

PROPOSED DISH WIRELESS, L.L.C. EQUIPMENT ON PROPOSED STEEL PLATFORM

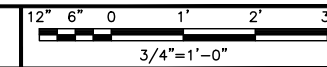
PROPOSED DISH WIRELESS, L.L.C. GPS UNIT

EXISTING TOWER
BOTTOM EL. @ 6" AGL

PROPOSED NORTH ELEVATION



ANTENNA LAYOUT



SECTOR	POSITION	ANTENNA					TRANSMISSION CABLE	
		EXISTING OR PROPOSED	MANUFACTURER - MODEL NUMBER	TECHNOLOGY	SIZE (HxW)	AZIMUTH	RAD CENTER	FEED LINE TYPE AND LENGTH
ALPHA	A1	PROPOSED	MX08FRO665-21	5G	72.0" x 20.0"	0°	107'-0"	(1) HIGH-CAPACITY HYBRID CABLE (130' LONG) (1) RAYCAP RDIDC-9181-PF-48 OVP
BETA	B1	PROPOSED	MX08FRO665-21	5G	72.0" x 20.0"	120°	107'-0"	
GAMMA	G1	PROPOSED	MX08FRO665-21	5G	72.0" x 20.0"	240°	107'-0"	

SECTOR	POSITION	RRH	
		MANUFACTURER - MODEL NUMBER	TECHNOLOGY
ALPHA	A1	TA08025-B604	5G
	A1	TA08025-B605	5G
BETA	B1	TA08025-B604	5G
	B1	TA08025-B605	5G
GAMMA	G1	TA08025-B604	5G
	G1	TA08025-B605	5G

NOTES

1. CONTRACTOR TO REFER TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS.
2. ANTENNA AND RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. ALL EQUIPMENT CHANGES MUST BE APPROVED AND REMAIN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.

ANTENNA SCHEDULE

NO SCALE

3



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

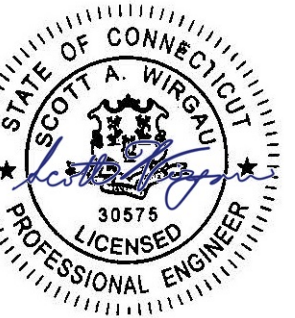


DRAWN BY:	CHECKED BY:	APPROVED BY:
JD	SRF	SRF

RFDS REV #: -----

CONSTRUCTION DOCUMENTS

SUBMITTALS		
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0	10/29/2021	ISSUED FOR CONSTRUCTION
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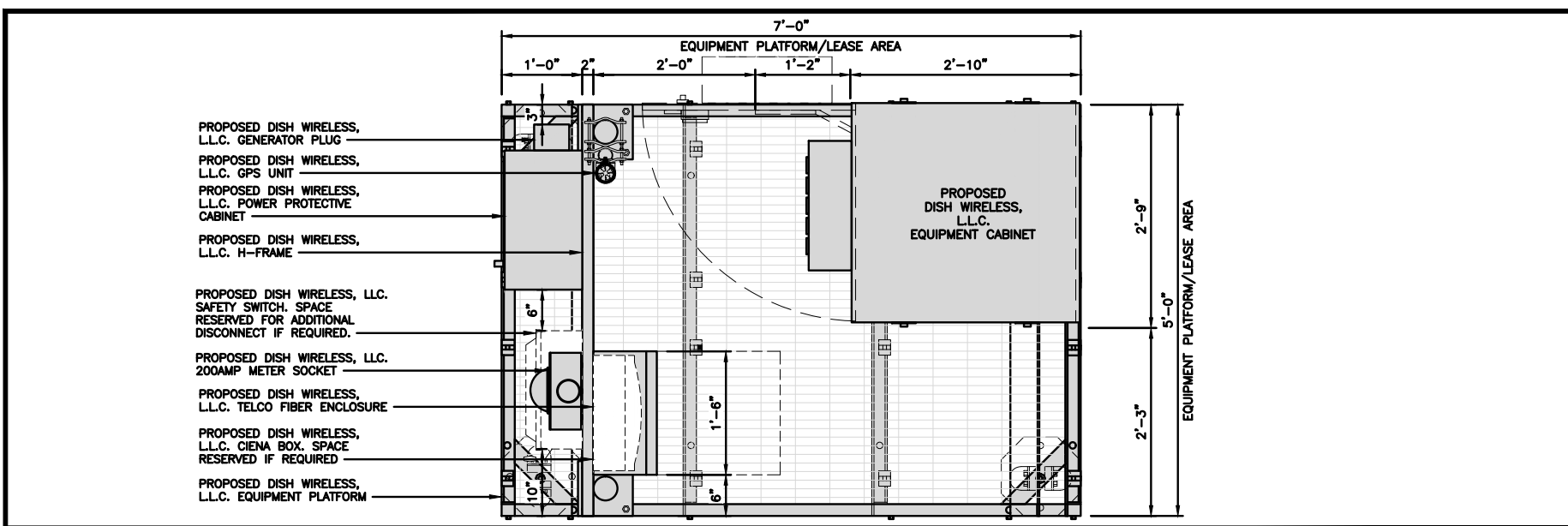
A&E PROJECT NUMBER
283420-13712876_D2

DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJERO2048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

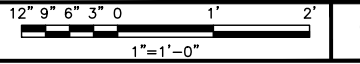
SHEET TITLE
ELEVATION, ANTENNA
LAYOUT AND SCHEDULE

SHEET NUMBER

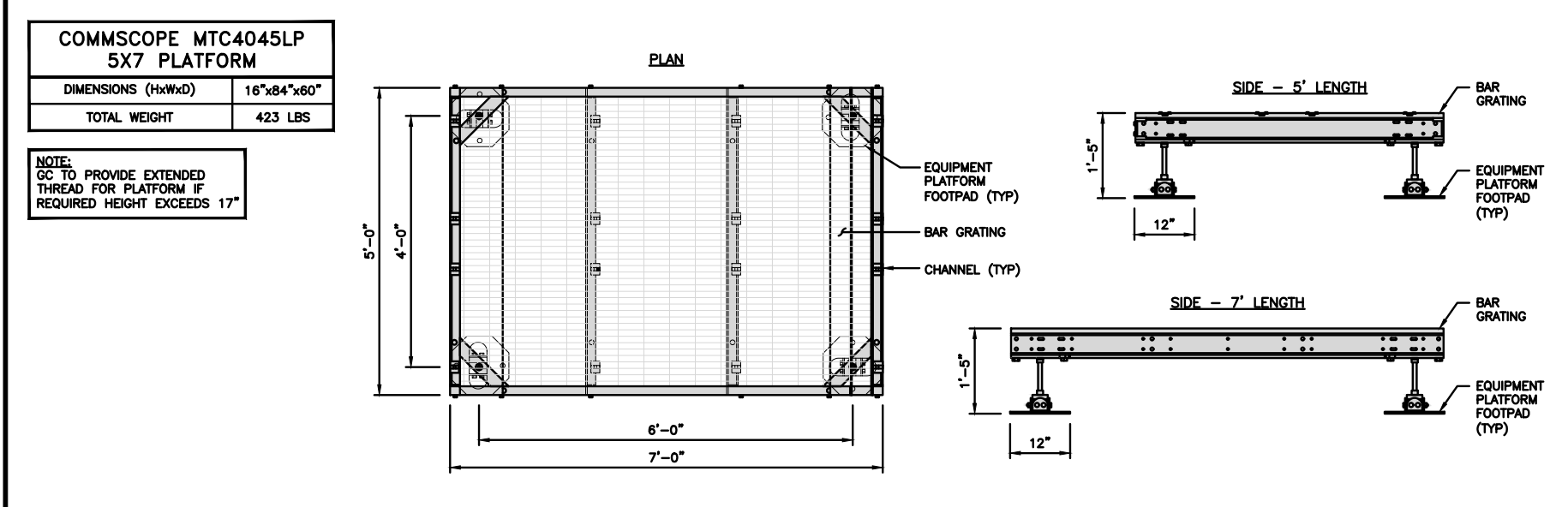
A-2



PLATFORM EQUIPMENT PLAN

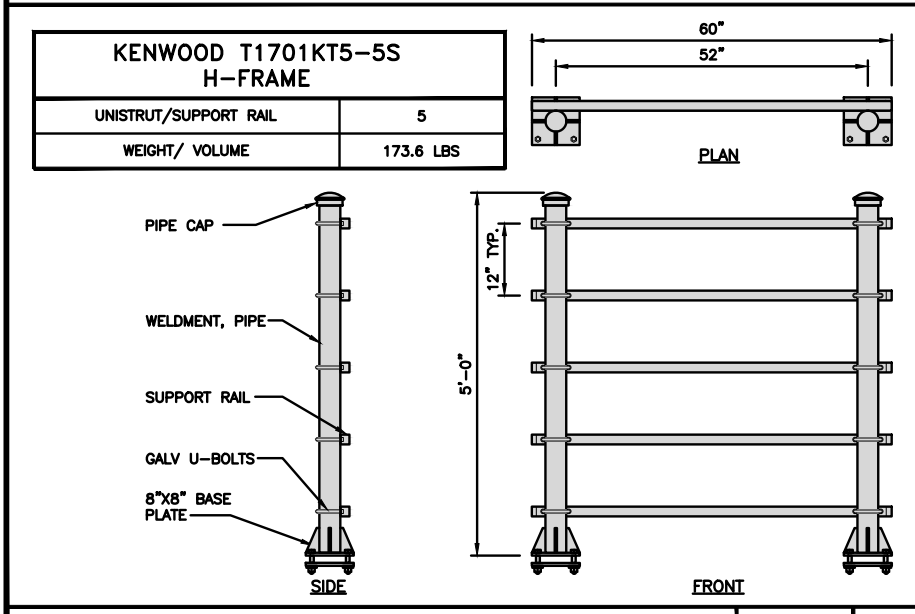


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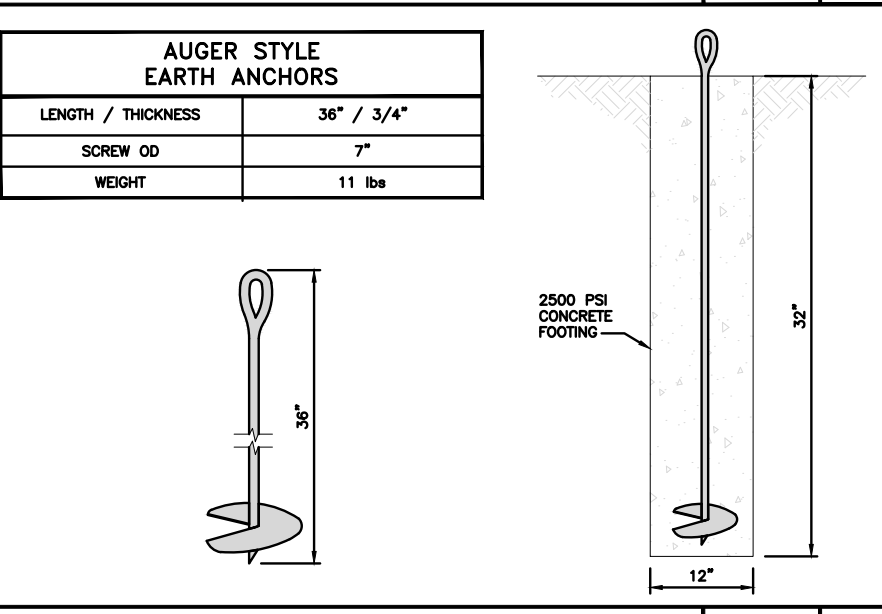
PLATFORM DETAIL

NO SCALE 2



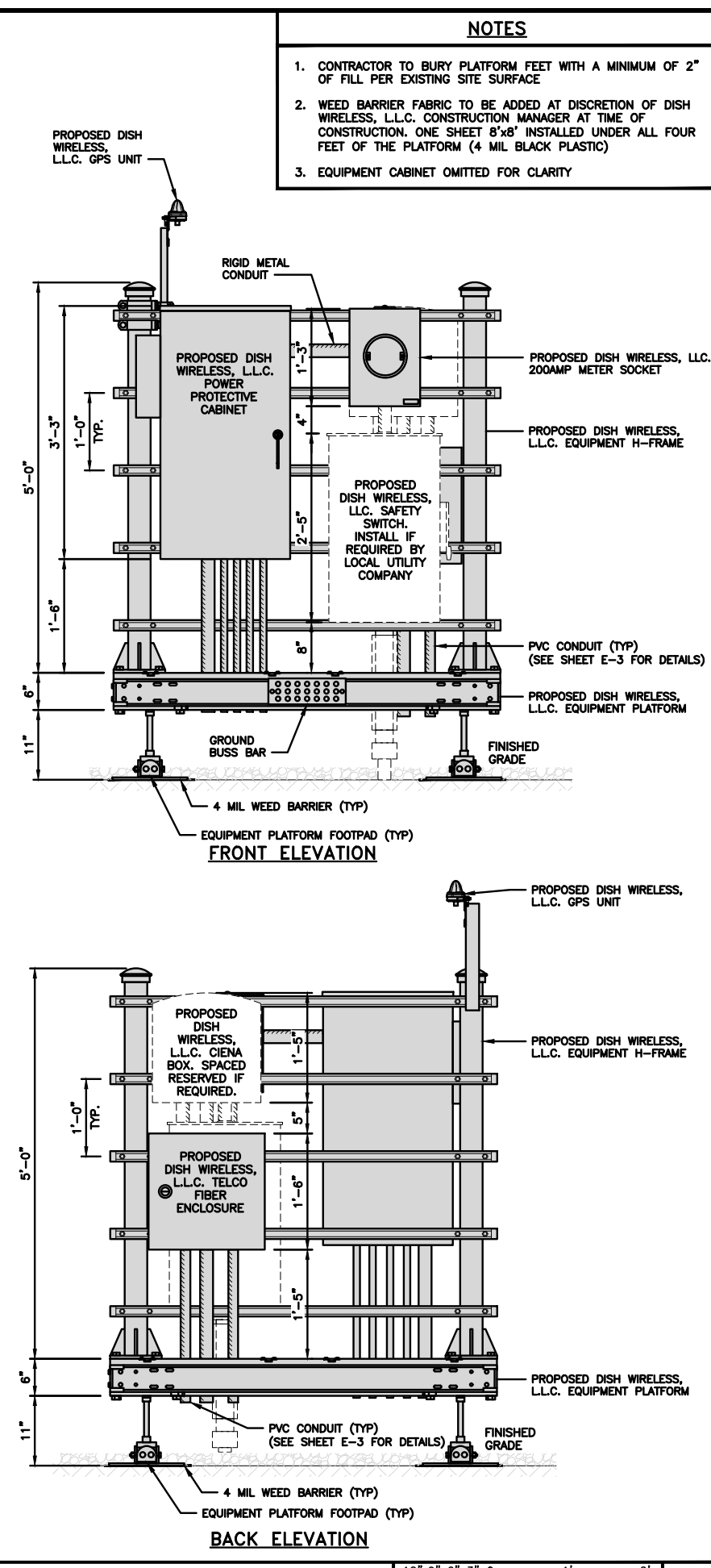
H-FRAME DETAIL

NO SCALE 3

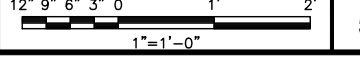


ANCHOR DETAIL

NO SCALE 4



H-FRAME EQUIPMENT ELEVATION



5

- NOTES**
- CONTRACTOR TO BURY PLATFORM FEET WITH A MINIMUM OF 2" OF FILL PER EXISTING SITE SURFACE
 - WEED BARRIER FABRIC TO BE ADDED AT DISCRETION OF DISH WIRELESS, L.L.C. CONSTRUCTION MANAGER AT TIME OF CONSTRUCTION. ONE SHEET 8'x8' INSTALLED UNDER ALL FOUR FEET OF THE PLATFORM (4 MIL BLACK PLASTIC)
 - EQUIPMENT CABINET OMITTED FOR CLARITY

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112

DRAWN BY:	CHECKED BY:	APPROVED BY:
JD	SRF	SRF
RFDS REV #:		

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
0	10/29/2021	ISSUED FOR CONSTRUCTION
1	11/29/2021	ANTENNA MODEL

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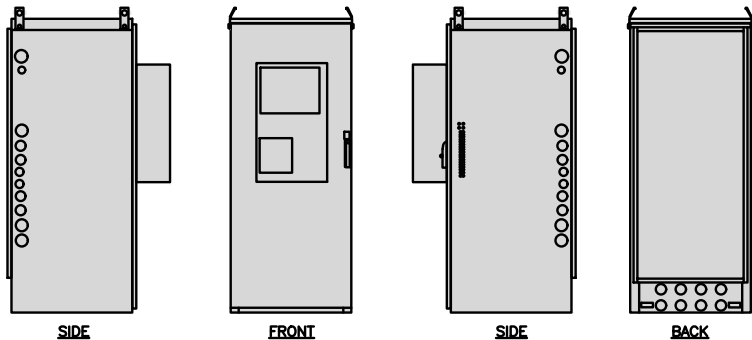
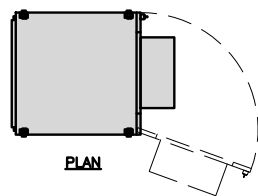
A&E PROJECT NUMBER
283420-13712876_D2

DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJERO2048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
EQUIPMENT PLATFORM AND
H-FRAME DETAILS

SHEET NUMBER
A-3

ENERSYS HVAC CABINET 2000005995	
DIMENSIONS (HxWxD):	73"x30"x32"
WEIGHT EMPTY:	371 lbs
HVAC	600W
POWER SYSTEM	-48V ALPHA/600A

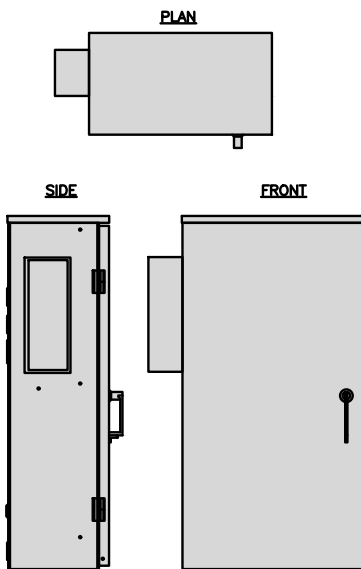


CABINET DETAIL

NO SCALE

1

RAYCAP RDIAC-6512-P-240-MTS POWER & TELCO PROTECTION CABINET	
DIMENSIONS (HxWxD)	40"x20"x10"
WEIGHT/ VOLUME	124 LBS
MANUAL TRANSFER SWITCH	200A
LOAD CENTER	30 POSITION
MAIN BREAKER	200A, 65KA AIC
GENERATOR RECEPTACLE	CAMLOCK
NEMA RATING	3R POWDER COATED ALUMINUM
SURGE PROTECTION DEVICE	UL 1449 4TH EDITION LISTED

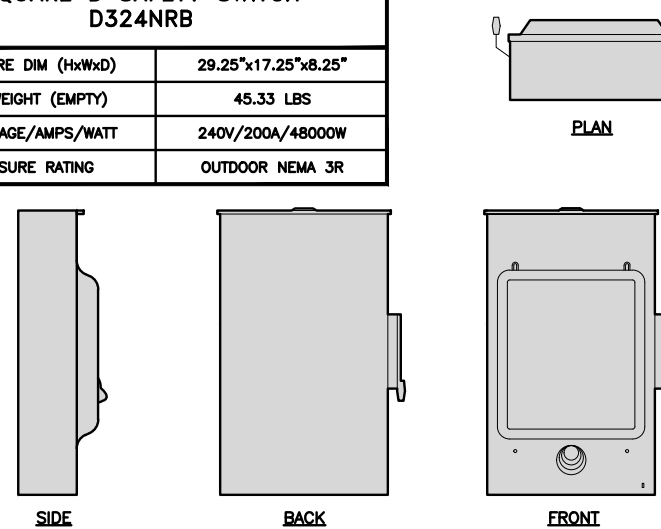


POWER PROTECTION CABINET (PPC) DETAIL

NO SCALE

2

SQUARE D SAFETY SWITCH D324NRB	
ENCLOSURE DIM (HxWxD)	29.25"x17.25"x8.25"
TOTAL WEIGHT (EMPTY)	45.33 LBS
MAX VOLTAGE/AMPS/WATT	240V/200A/48000W
ENCLOSURE RATING	OUTDOOR NEMA 3R

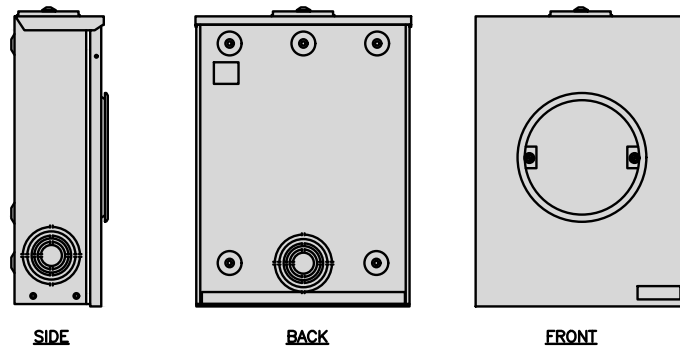
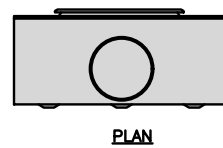


SAFETY SWITCH

NO SCALE

3

EATON METER SOCKET UNRRS213BEUSE	
METER SOCKET TYPE	RING
ENCLOSURE DIM (HxWxD)	16"x12"x6"
MAIN AMPERE RATING	200A
WEIGHT	18 LBS

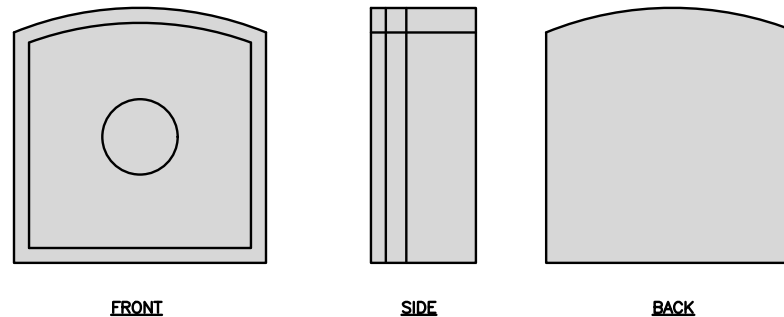
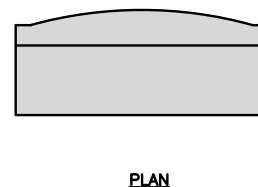


METER SOCKET DETAIL

NO SCALE

4

CIENA 3931 SERVICE DELIVERY SWITCH	
DIMENSIONS (HxWxD)	17.0"x16.8"x7.0" 431x427x178mm
WEIGHT	28.6 LBS/13.0 KG
POWER INPUT	60W MAX

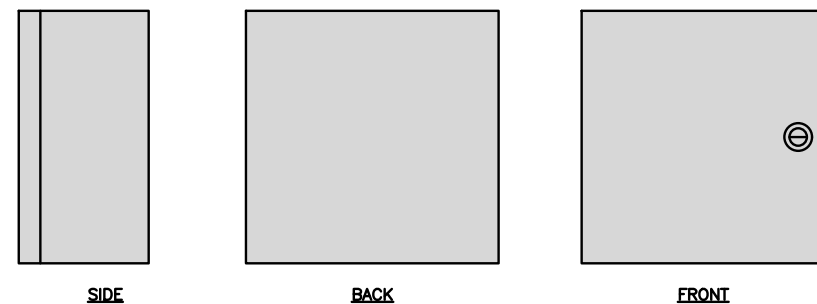
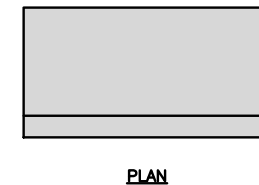


CIENA DETAIL

NO SCALE

5

CHARLES FIBER TELCO ENCLOSURE CUBE-MP1818WB-A	
ENCLOSURE DIM (HxWxD)	18.0"x18.0"x9.25"
NEMA RATING	4X
THERMAL	SEALED
MOUNTING BACKBOARD	WOOD

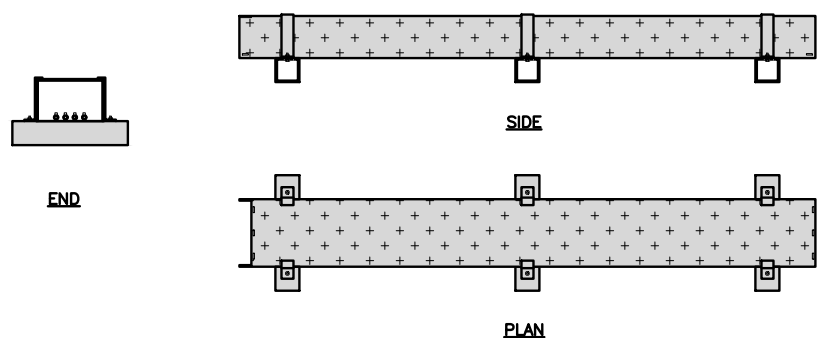


FIBER TELCO ENCLOSURE DETAIL

NO SCALE

6

COMMSCOPE RT-CB4D COVER KIT		MOUNTING		NON-PENETRATING	
DIMENSIONS (HxWxL)	7"x 11.25"x 96"	INCLUDED PRODUCTS:	RTCB4D.01 CHANNEL (1)	MT-F159B SLEEPERS (3)	RTCUH HARDWARE
WEIGHT/ VOLUME	85.98 LBS		RTHC.01 HOLD-DOWN CLAMPS (6)		
CABLE RUN (QTY)	4				



CABLE TRAY DETAIL

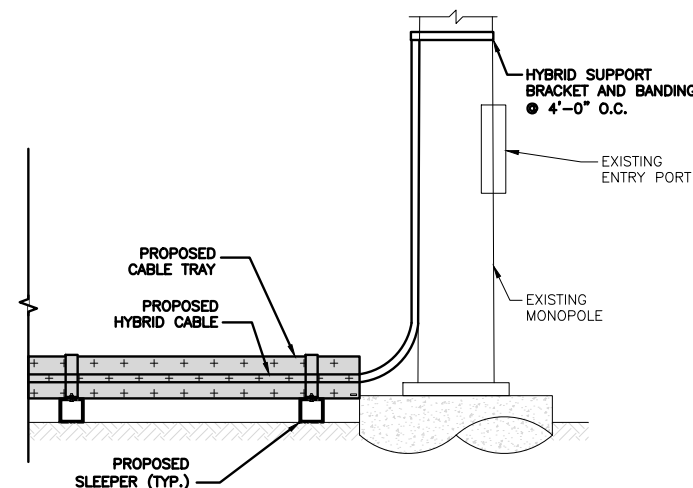
NO SCALE

7

NOT USED

NO SCALE

8



HYBRID CABLE RUN

NO SCALE

9



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



DRAWN BY:	CHECKED BY:	APPROVED BY:
JD	SRF	SRF

RFDS REV #: ----

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
0	10/29/2021	ISSUED FOR CONSTRUCTION
1	11/29/2021	ANTENNA MODEL



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A&E PROJECT NUMBER
283420-13712876_D2

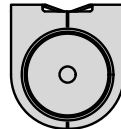
DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJERO2048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
EQUIPMENT DETAILS

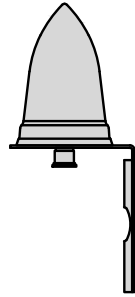
SHEET NUMBER

A-4

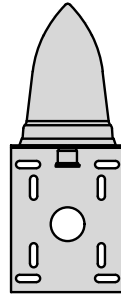
PCTEL GPSGL-TMG-SPI-40NCB	
DIMENSIONS (DIAxH) MM/INCH	81x184mm 3.2"x7.25"
WEIGHT W/ACCESSORIES	075 lbs
CONNECTOR	N-FEMALE
FREQUENCY RANGE	1590 ± 30MHz



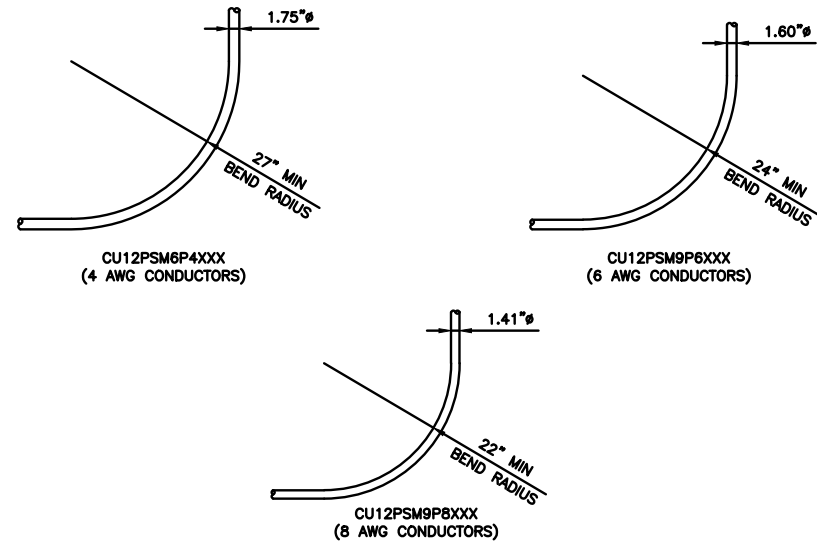
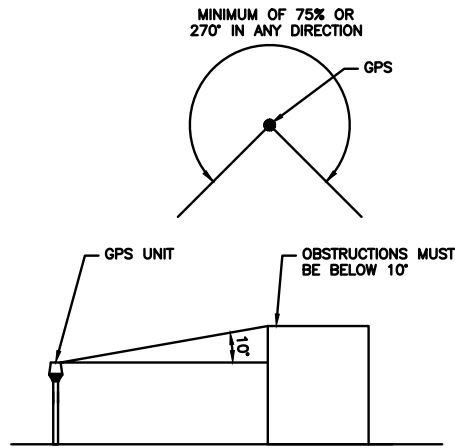
TOP



BACK



SIDE



GPS DETAIL

NO SCALE

1

GPS MINIMUM SKY VIEW REQUIREMENTS

NO SCALE

2

CABLES UNLIMITED HYBRID CABLE
MINIMUM BEND RADIUSES

NO SCALE

3

NOT USED

NO SCALE

4

NOT USED

NO SCALE

5

NOT USED

NO SCALE

6

NOT USED

NO SCALE

7

NOT USED

NO SCALE

8

NOT USED

NO SCALE

9

dish
wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

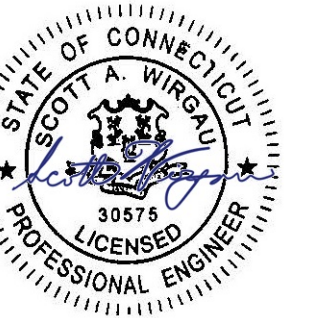
AMERICAN TOWER
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112

DRAWN BY: CHECKED BY: APPROVED BY:
JD SRF SRF

RFDS REV #: ----

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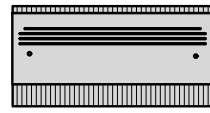
A&E PROJECT NUMBER
283420-13712876_D2

DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJERO2048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

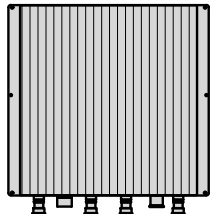
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-5

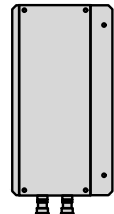
FUJITSU DUAL BAND TA08025-B604	
DIMENSIONS (HxWxD)	14.9"x15.7"x7.8"
WEIGHT	63.9 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V



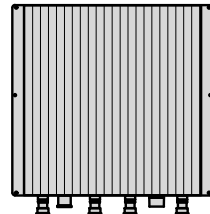
PLAN



BACK



SIDE



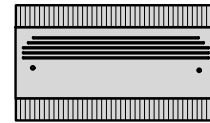
FRONT

RRH DETAIL

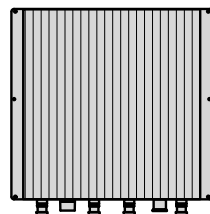
NO SCALE

1

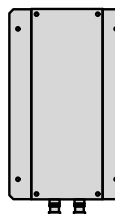
FUJITSU TRIPLE BAND TA08025-B605	
DIMENSIONS (HxWxD)	14.9"x15.7"x9"
WEIGHT	74.95 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V



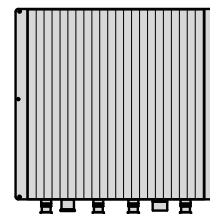
PLAN



BACK



SIDE



FRONT

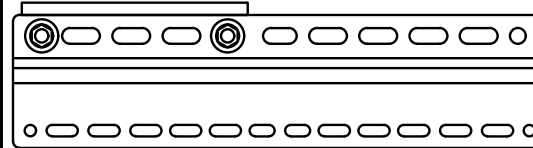
RRH DETAIL

NO SCALE

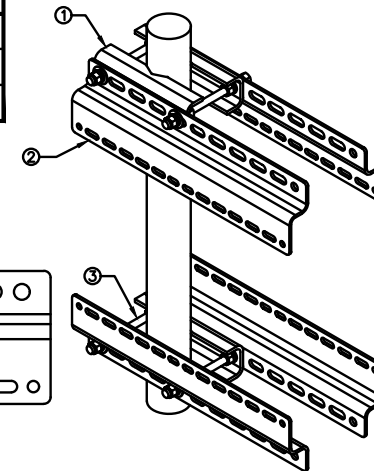
2

SABRE DOUBLE Z-BRACKET G10123155	
DIMENSIONS (HxWxD) (1 BRACKET)	5"x20"x1-13/16"
WEIGHT (FULL ASSEMBLY)	35.79 lbs
PACKAGE QUANTITY	4

#	DESCRIPTION
1	PLATE, CHANNEL BRACKET
2	RRH Z BRACKET, 3/16"
3	THREADED ROD ASSEMBLY 1/2"x12"



NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT



RRH MOUNT DETAIL

NO SCALE

3

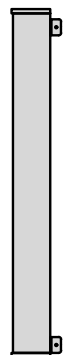
JMA WIRELESS MX08FRO665-21 ANTENNA	
DIMENSIONS (HxWxD)	72.0"x20.0"x8.0"
TOTAL WEIGHT	64.5 LB
RF PORTS, CONNECTOR TYPE	8 x 4.3-10 FEMALE



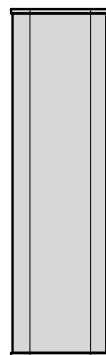
PLAN



BACK



SIDE



FRONT

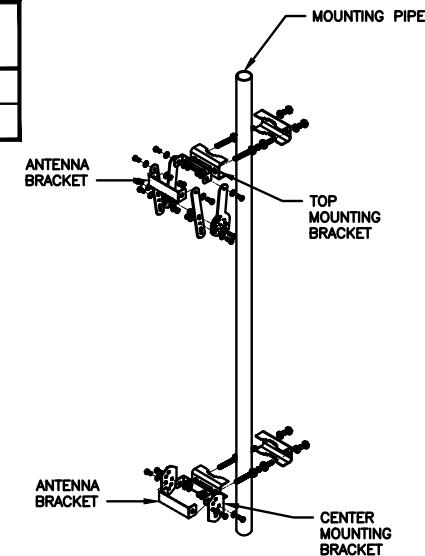
ANTENNA DETAIL

NO SCALE

4

JMA ANTENNA MOUNT BRACKET #91900318	
TOTAL WEIGHT (WITH BRACKETS)	18 lbs (8.18 Kg)
POLE DIAMETER RANGE	2.5" TO 4.5"

NOTE:
KIT #91900318: TOP AND BOTTOM BRACKETS
FOR 4-, 6-, AND 8-FOOT ANTENNAS
ANTENNA BRACKET NOT PART OF KIT



NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT

ANTENNA MOUNT DETAIL

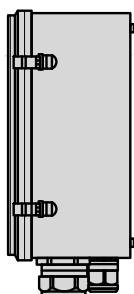
NO SCALE

6

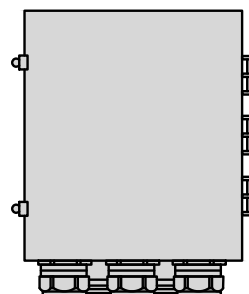
RAYCAP RDIDC-9181-PF-48 DC SURGE PROTECTION (OVP)	
DIMENSIONS (HxWxD)	18.98"x14.39"x8.15"
WEIGHT	21.82 LBS



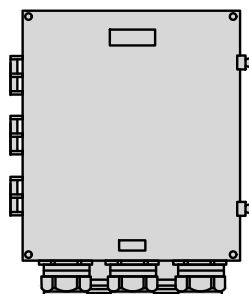
PLAN



SIDE



BACK



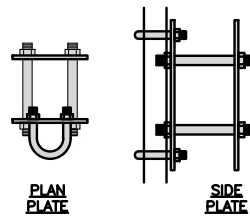
FRONT

SURGE SUPPRESSION DETAIL (OVP)

NO SCALE

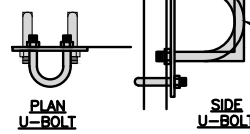
7

COMMSCOPE XP-2040 CROSSOVER PLATE	
DIMENSIONS (HxW)	10"x12"
WEIGHT	11.023 LBS



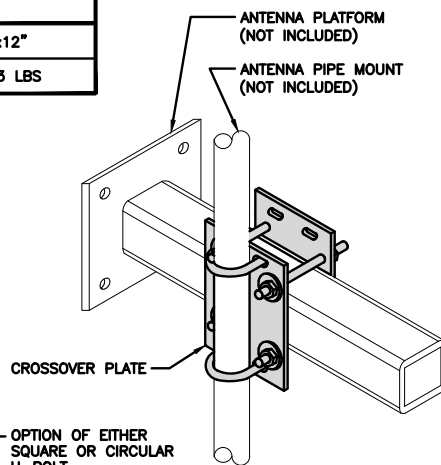
PLAN PLATE

SIDE PLATE



PLAN U-BOLT

SIDE U-BOLT



CROSSOVER PLATE

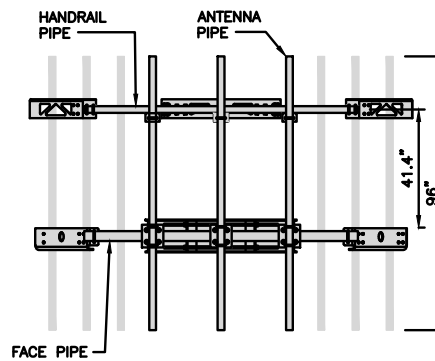
OPTION OF EITHER
SQUARE OR CIRCULAR
U-BOLT

RRH/OVP MOUNT DETAIL

NO SCALE

8

COMMSCOPE MC-PK8-DSH	
FACE WIDTH	96"
WEIGHT	1373.08 lbs
NOTE: 15" TO 38" O.D.	

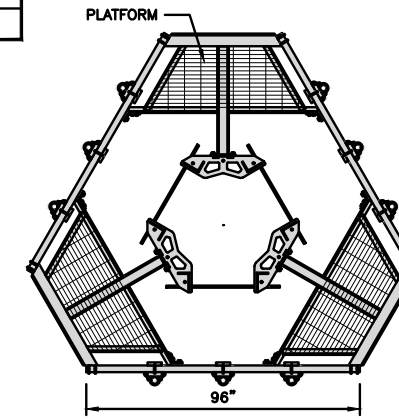


FACE PIPE

HANDRAIL PIPE

ANTENNA PIPE

PLATFORM



ANTENNA PLATFORM DETAIL

NO SCALE

9

dish
wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

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

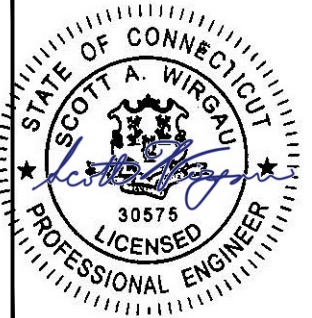
DRAWN BY: CHECKED BY: APPROVED BY:

JD SRF SRF

RFDS REV #: ----

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283420-13712876_D2

DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJER02048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

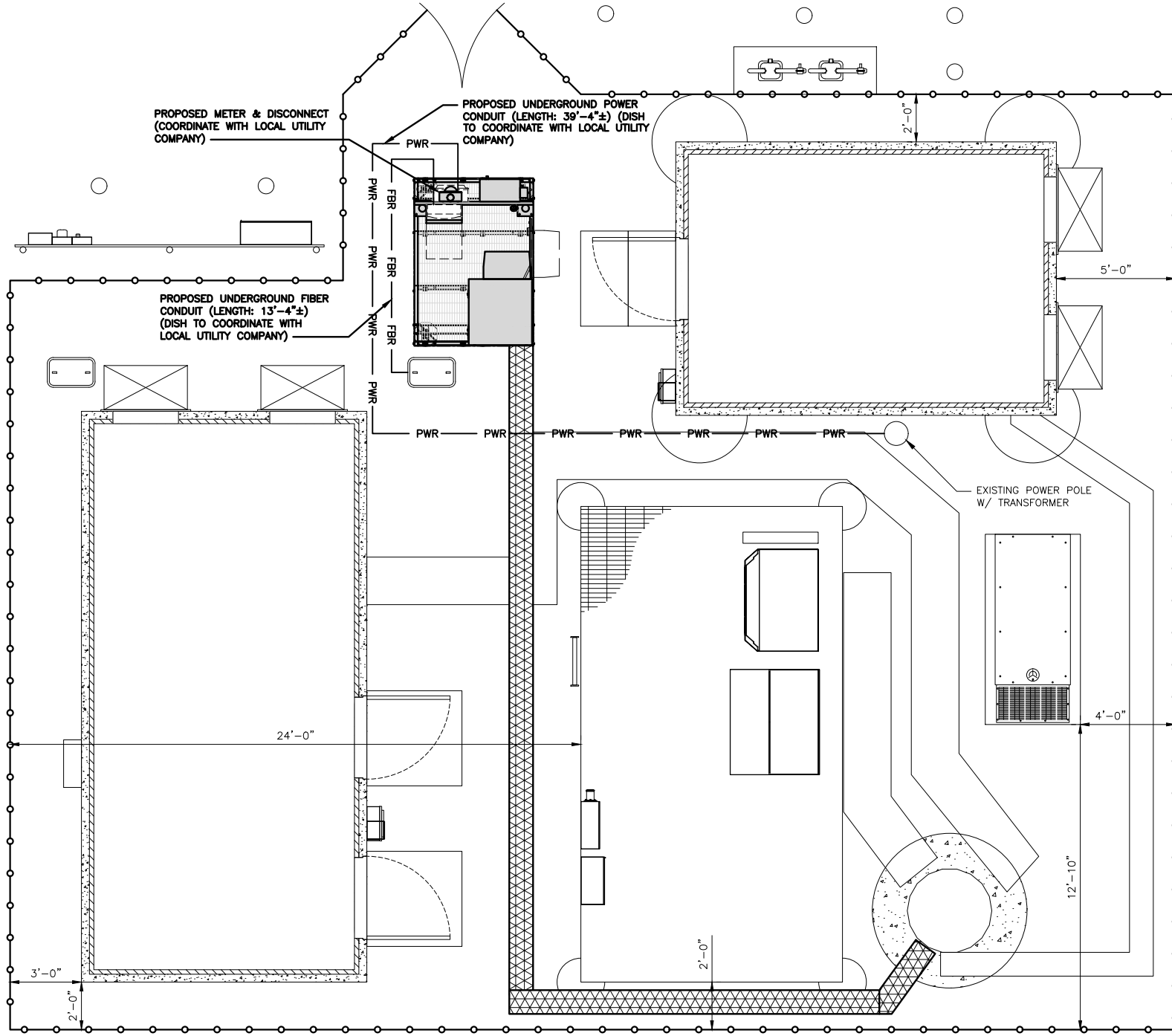
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER

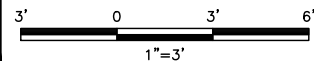
A-6

NOTES

1. CONTRACTOR MUST VERIFY THAT THE PROPOSED UTILITY ROUTES ARE WITHIN AMERICAN TOWER'S EASEMENT.
2. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.
3. GC TO REFER TO FINAL UTILITY COORDINATION DOCUMENT FOR ALL MEET ME POINTS AND ROUTING DETAILS.



UTILITY ROUTE PLAN



1

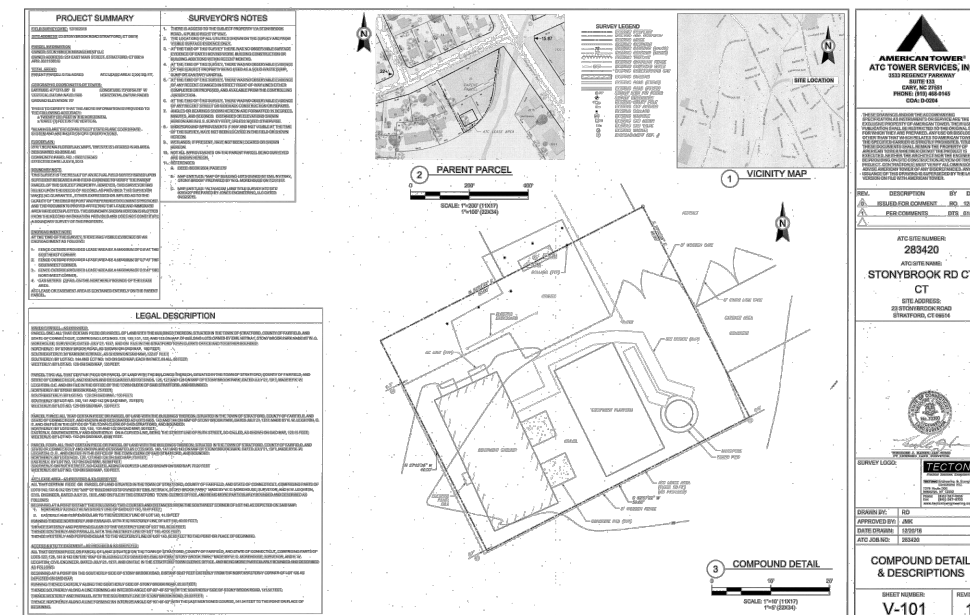
DC POWER WIRING SHALL BE COLOR CODED AT EACH END FOR IDENTIFYING +24V AND -48V CONDUCTORS. RED MARKINGS SHALL IDENTIFY +24V AND BLUE MARKINGS SHALL IDENTIFY -48V.

1. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
2. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRICAL CODES AND ALL STATE AND LOCAL CODES, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC STANDARDS.
3. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO CONSTRUCTION.
4. CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION CONFLICTS. VERIFY WITH THE MECHANICAL EQUIPMENT CONTRACTOR AND COMPLY AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE ALL BREAKERS, CONDUITS AND CIRCUITS AS REQUIRED FOR A COMPLETE SYSTEM.
6. CONTRACTOR SHALL PROVIDE PULL BOXES AND JUNCTION BOXES AS REQUIRED BY THE NEC ARTICLE 314.
7. CONTRACTOR SHALL PROVIDE ALL STRAIN RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
8. ALL DISCONNECTS AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED PHENOLIC NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FED FROM.
9. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC 250. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULL BOXES, AND ALL DISCONNECT SWITCHES, AND EQUIPMENT CABINETS.
10. ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.
11. PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST-CONSTRUCTION EQUIPMENT.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR AS-BUILT PANEL SCHEDULE AND SITE DRAWINGS.
13. ALL TRENCHES IN COMPOUND TO BE HAND DUG

ELECTRICAL NOTES

NO SCALE

2



EXISTING SURVEY (BY OTHERS)

NO SCALE

3



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

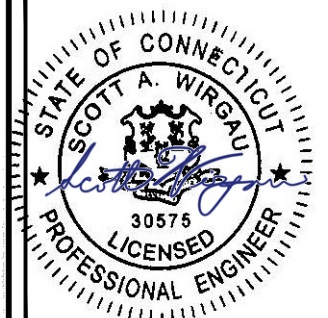


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JD	SRF	SRF

RFDS REV #: -----

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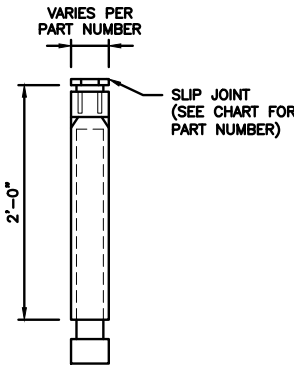
DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJERO2048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
**ELECTRICAL/FIBER ROUTE
PLAN AND NOTES**

SHEET NUMBER

E-1

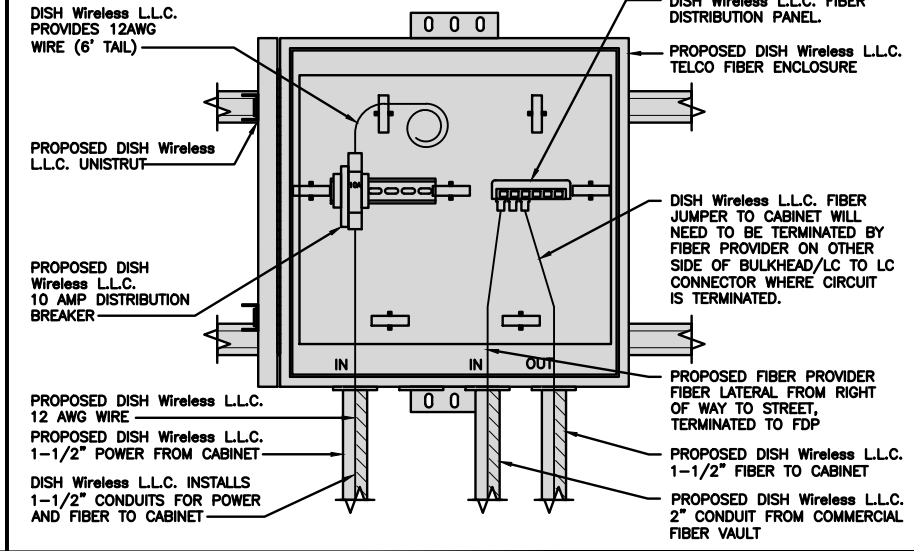
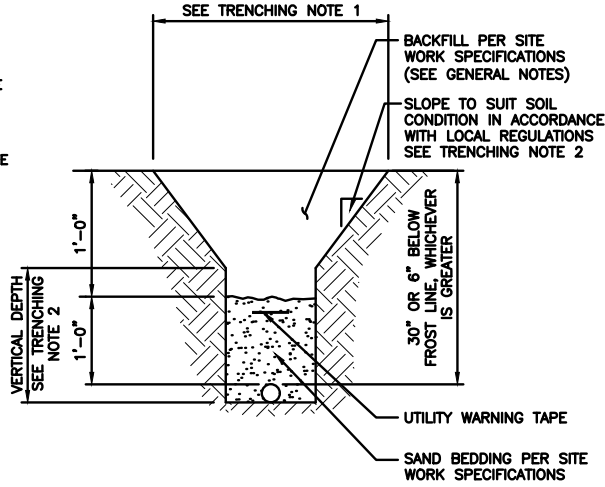
CARLON EXPANSION FITTINGS				
COUPLING END PART#	MALE TERMINAL ADAPTER END PART#	SIZE	STD CTN QTY.	TRAVEL LENGTH
E945D	E945DX	1/2"	20	4"
E945E	E945EX	3/4"	15	4"
E945F	E945FX	1"	10	4"
E945G	E945GX	1 1/4"	5	4"
E945H	E945HX	1 1/2"	5	4"
E945J	E945JX	2"	15	8"
E945K	E945KX	2 1/2"	10	8"
E945L	E945LX	3"	10	8"
E945M	E945MX	3 1/2"	5	8"
E945N	E945NX	4"	5	8"
E945P	E945PX	5"	1	8"
E945R	E945RX	6"	1	8"



NOTE: CONTRACTOR TO INSTALL EXPANSION FITTING SLIP JOINT AT METER CENTER CONDUIT TERMINATION, AS PER LOCAL UTILITY POLICY, ORDINANCE AND/OR SPECIFIED REQUIREMENT.

TRENCHING NOTES

- CONTRACTOR SHALL RESTORE THE TRENCH TO ITS ORIGINAL CONDITIONS BY EITHER SEEDING OR SODDING GRASS AREAS, OR REPLACING ASPHALT OR CONCRETE AREAS TO ITS ORIGINAL CROSS SECTION.
- TRENCHING SAFETY; INCLUDING, BUT NOT LIMITED TO SOIL CLASSIFICATION, SLOPING, AND SHORING, SHALL BE GOVERNED BY THE CURRENT OSHA TRENCHING AND EXCAVATION SAFETY STANDARDS.
- ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT NATIONAL ELECTRIC CODE (NEC) OR AS REQUIRED BY THE LOCAL JURISDICTION, WHICHEVER IS THE MOST STRINGENT.



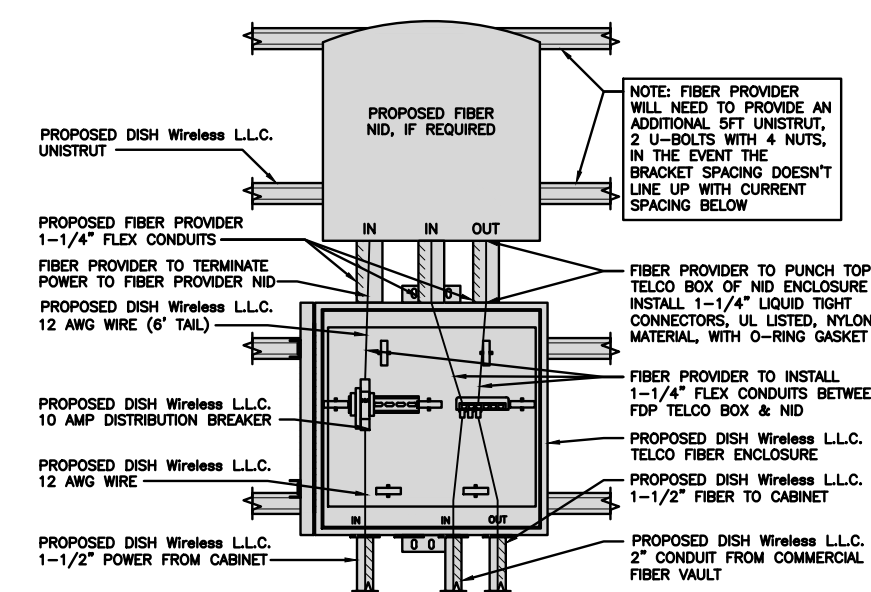
5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



EXPANSION JOINT DETAIL NO SCALE 1

TYPICAL UNDERGROUND TRENCH DETAIL NO SCALE 2

DARK TELCO BOX - INTERIOR WIRING LAYOUT NO SCALE 3



LIT TELCO BOX - INTERIOR WIRING LAYOUT (OPTIONAL) NO SCALE 4

NOT USED NO SCALE 5

NOT USED NO SCALE 6

NOT USED NO SCALE 7

NOT USED NO SCALE 8

NOT USED NO SCALE 9

DRAWN BY:	CHECKED BY:	APPROVED BY:
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RFDS REV #:	----	

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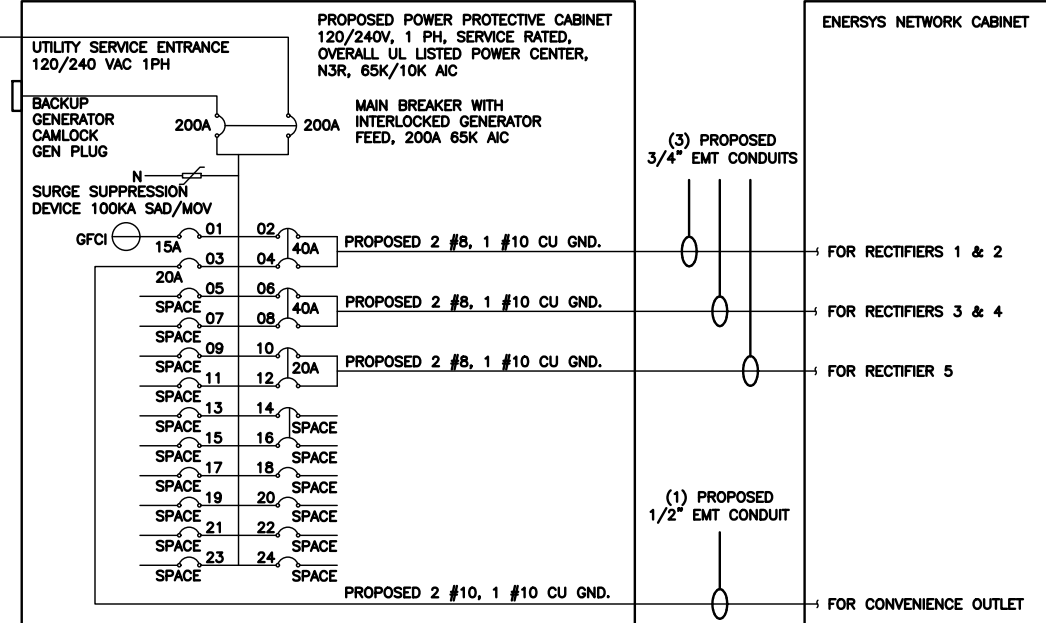
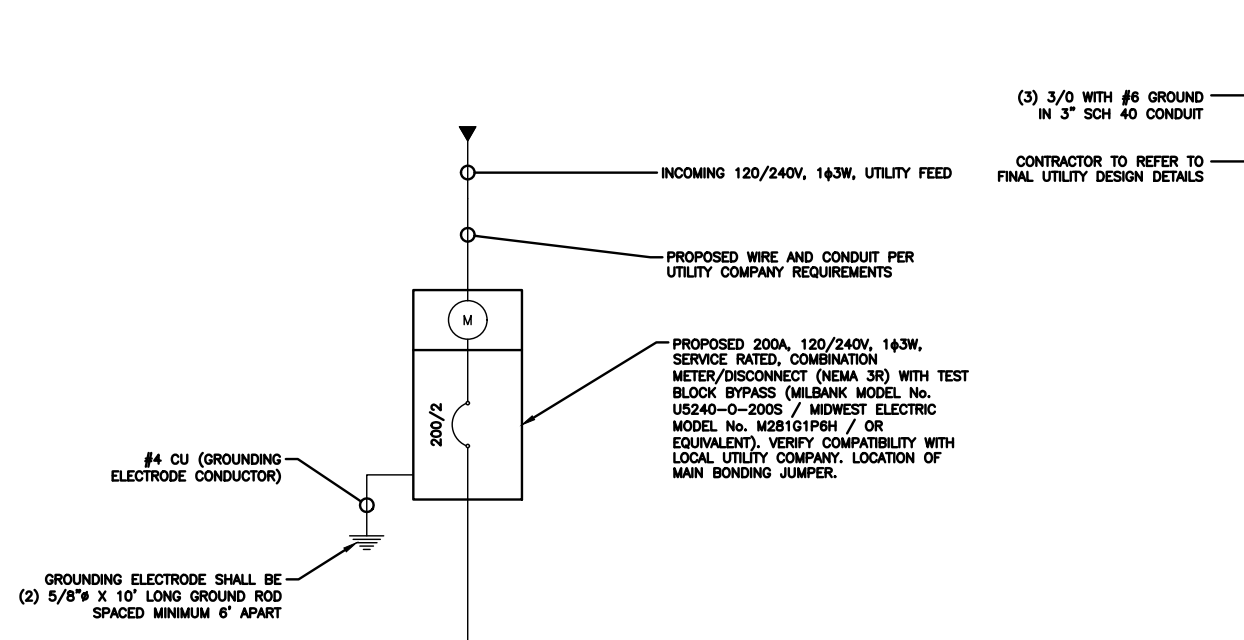
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PROJECT INFORMATION
NJJERO2048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
ELECTRICAL
DETAILS

SHEET NUMBER
E-2



NOTE:
BRANCH CIRCUIT WIRING SUPPLYING RECTIFIERS ARE TO BE RATED UL1015, 105°C, 600V, AND PVC INSULATED, IN THE SIZES SHOWN IN THE ONE-LINE DIAGRAM. CONTRACTOR MAY SUBSTITUTE UL1015 WIRE FOR THWN-2 FOR CONVENIENCE OUTLET BRANCH CIRCUIT.

BREAKERS REQUIRED:
(2) 40A, 2P BREAKER - SQUARE D P/N:Q0240
(1) 20A, 2P BREAKER - SQUARE D P/N:Q0220
(1) 20A, 1P BREAKER - SQUARE D P/N:Q0120
(1) 15A, 1P BREAKER - SQUARE D P/N:Q0115

PPC ONE-LINE DIAGRAM

NO SCALE 1

PROPOSED ENERSYS PANEL SCHEDULE											
LOAD SERVED	VOLT AMPS (WATTS)		TRIP	CKT #	PHASE	CKT #	TRIP	VOLT AMPS (WATTS)		LOAD SERVED	
	L1	L2						L1	L2		
PPC GFCI OUTLET	180	180	15A	1	A	2		3840	3840	ENERSYS ALPHA CORDEX RECTIFIERS 1 & 2	
ENERSYS GFCI OUTLET	180	180	20A	3	B	4	40A	3840	3840	ENERSYS ALPHA CORDEX RECTIFIERS 3 & 4	
-SPACE-				5	A	6	40A	3840	3840	ENERSYS ALPHA CORDEX RECTIFIER 3 & 4	
-SPACE-				7	B	8					
-SPACE-				9	A	10	20A	1920	1920	ENERSYS ALPHA CORDEX RECTIFIER 5	
-SPACE-				11	B	12					
-SPACE-				13	A	14				-SPACE-	
-SPACE-				15	B	16				-SPACE-	
-SPACE-				17	A	18				-SPACE-	
-SPACE-				19	B	20				-SPACE-	
-SPACE-				21	A	22				-SPACE-	
-SPACE-				23	B	24				-SPACE-	
VOLTAGE AMPS	180	180						9500	9500		
200A MCB, 1 ϕ , 24 SPACE, 120/240V				L1		L2					
MB RATING: 65,000 AIC				9680		9680				VOLTAGE AMPS	
				81		81				AMPS	
										MAX AMPS	
										MAX 125%	

PANEL SCHEDULE

NO SCALE 2

NOT USED

NO SCALE 3



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

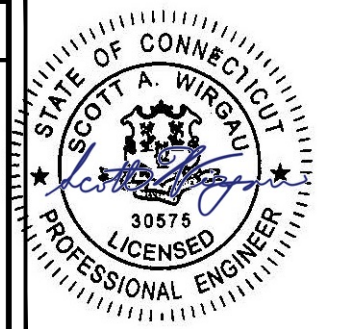


DRAWN BY: JD
CHECKED BY: SRF
APPROVED BY: SRF

RFDS REV #: ----

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SUBMITTALS		
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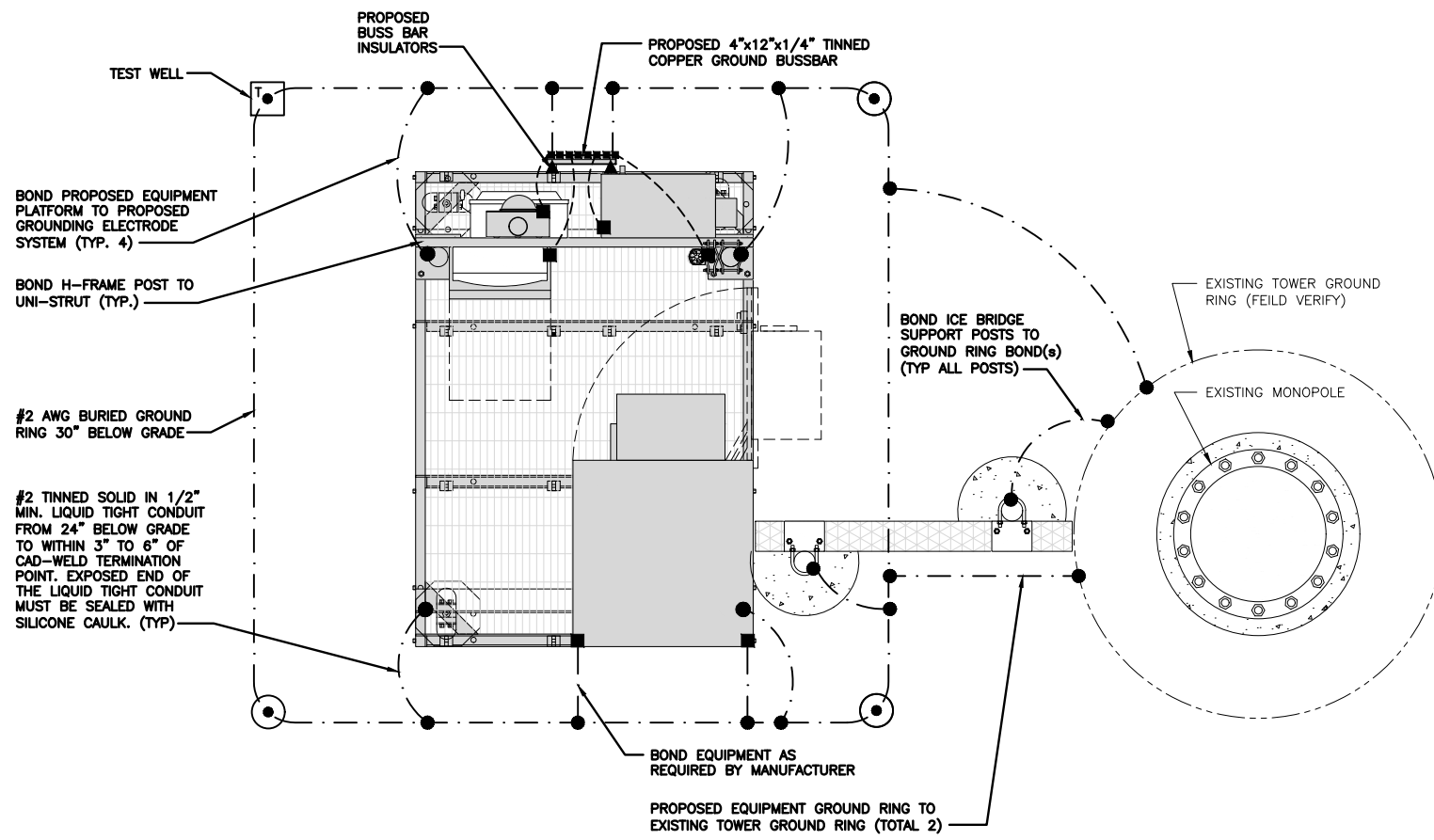
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A&E PROJECT NUMBER
283420-13712876_D2

DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJERO2048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

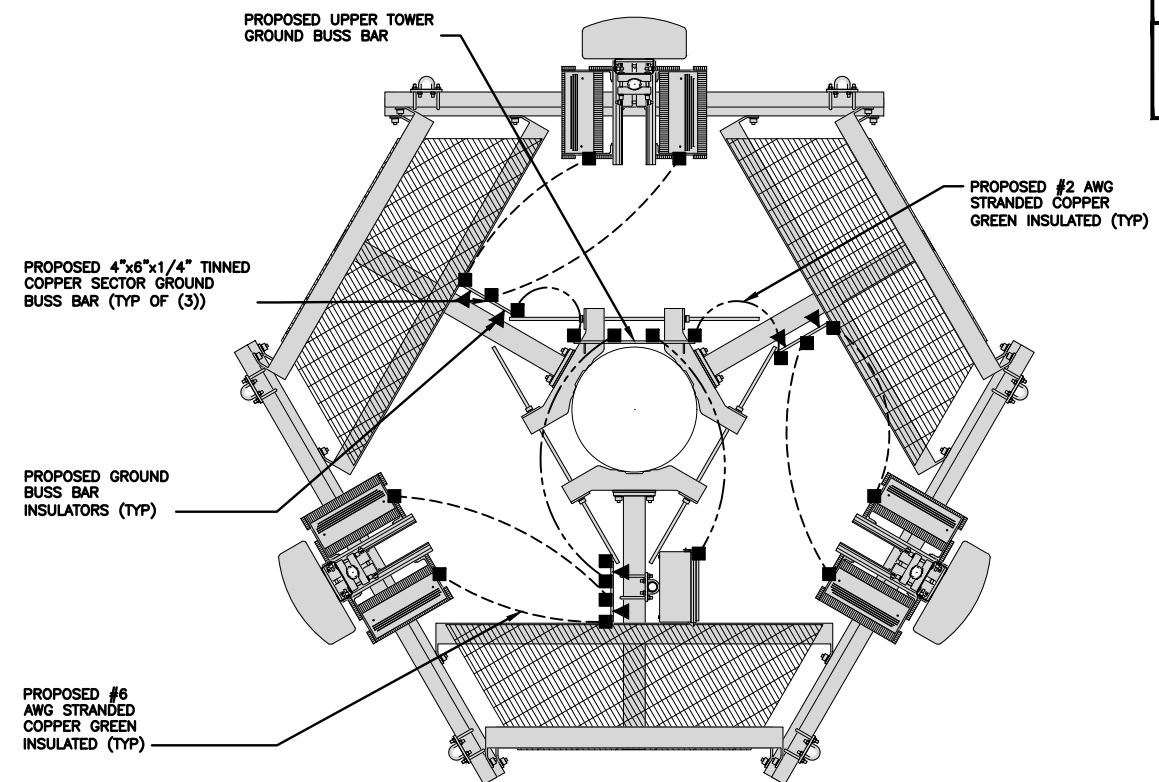
SHEET TITLE
ELECTRICAL ONE-LINE, FAULT
CALCS & PANEL SCHEDULE

SHEET NUMBER
E-3



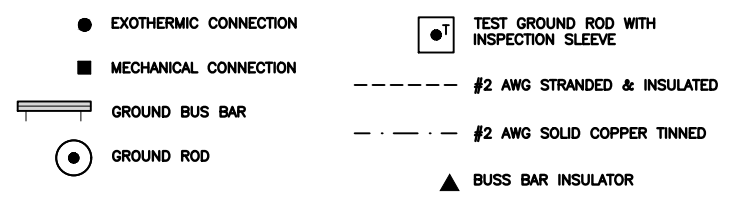
TYPICAL EQUIPMENT GROUNDING PLAN

NO SCALE 1



TYPICAL ANTENNA GROUNDING PLAN

NO SCALE 2



GROUNDING LEGEND

- GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
- CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN COMPLIANCE WITH NEC SECTION 250 AND DISH WIRELESS, L.L.C. GROUNDING AND BONDING REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
- ALL GROUND CONDUCTORS SHALL BE COPPER; NO ALUMINUM CONDUCTORS SHALL BE USED.

GROUNDING KEY NOTES

- (A) **EXTERIOR GROUND RING:** #2 AWG SOLID COPPER, BURIED AT A DEPTH OF AT LEAST 30 INCHES BELOW GRADE, OR 6 INCHES BELOW THE FROST LINE AND APPROXIMATELY 24 INCHES FROM THE EXTERIOR WALL OR FOOTING.
- (B) **TOWER GROUND RING:** THE GROUND RING SYSTEM SHALL BE INSTALLED AROUND AN ANTENNA TOWER'S LEGS, AND/OR GUY ANCHORS. WHERE SEPARATE SYSTEMS HAVE BEEN PROVIDED FOR THE TOWER AND THE BUILDING, AT LEAST TWO BONDS SHALL BE MADE BETWEEN THE TOWER RING GROUND SYSTEM AND THE BUILDING RING GROUND SYSTEM USING MINIMUM #2 AWG SOLID COPPER CONDUCTORS.
- (C) **INTERIOR GROUND RING:** #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTOR EXTENDED AROUND THE PERIMETER OF THE EQUIPMENT AREA. ALL NON-TELECOMMUNICATIONS RELATED METALLIC OBJECTS FOUND WITHIN A SITE SHALL BE GROUNDED TO THE INTERIOR GROUND RING WITH #6 AWG STRANDED GREEN INSULATED CONDUCTOR.
- (D) **BOND TO INTERIOR GROUND RING:** #2 AWG SOLID TINNED COPPER WIRE PRIMARY BONDS SHALL BE PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GROUND RING, LOCATED AT THE CORNERS OF THE BUILDING.
- (E) **GROUND ROD:** UL LISTED COPPER CLAD STEEL MINIMUM 5/8" DIAMETER BY EIGHT FEET LONG. GROUND RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF GROUND RING CONDUCTOR.
- (F) **CELL REFERENCE GROUND BAR:** POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 AWG UNLESS NOTED OTHERWISE STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUCTORS.
- (G) **HATCH PLATE GROUND BAR:** BOND TO THE INTERIOR GROUND RING WITH TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CRGB MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS EACH.
- (H) **EXTERIOR CABLE ENTRY PORT GROUND BARS:** LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE.
- (J) **TELCO GROUND BAR:** BOND TO BOTH CELL REFERENCE GROUND BAR OR EXTERIOR GROUND RING.
- (K) **FRAME BONDING:** THE BONDING POINT FOR TELECOM EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT IS NOT ISOLATED FROM THE EQUIPMENTS METAL FRAMEWORK.
- (L) **INTERIOR UNIT BONDS:** METAL FRAMES, CABINETS AND INDIVIDUAL METALLIC UNITS LOCATED WITH THE AREA OF THE INTERIOR GROUND RING REQUIRE A #6 AWG STRANDED GREEN INSULATED COPPER BOND TO THE INTERIOR GROUND RING.
- (M) **FENCE AND GATE GROUNDING:** METAL FENCES WITHIN 7 FEET OF THE EXTERIOR GROUND RING OR OBJECTS BONDED TO THE EXTERIOR GROUND RING SHALL BE BONDED TO THE GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTOR AT AN INTERVAL NOT EXCEEDING 25 FEET. BONDS SHALL BE MADE AT EACH GATE POST AND ACROSS GATE OPENINGS.
- (N) **EXTERIOR UNIT BONDS:** METALLIC OBJECTS, EXTERNAL TO OR MOUNTED TO THE BUILDING, SHALL BE BONDED TO THE EXTERIOR GROUND RING. USING #2 TINNED SOLID COPPER WIRE.
- (P) **ICE BRIDGE SUPPORTS:** EACH ICE BRIDGE LEG SHALL BE BONDED TO THE GROUND RING WITH #2 AWG BARE TINNED COPPER CONDUCTOR. PROVIDE EXOTHERMIC WELDS AT BOTH THE ICE BRIDGE LEG AND BURIED GROUND RING.
- (Q) **DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICE CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH A MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR.**
- (R) **TOWER TOP COLLECTOR BUSS BAR IS TO BE MECHANICALLY BONDED TO PROPOSED ANTENNA MOUNT COLLAR. REFER TO DISH WIRELESS, L.L.C. GROUNDING NOTES.**

GROUNDING KEY NOTES

NO SCALE 3



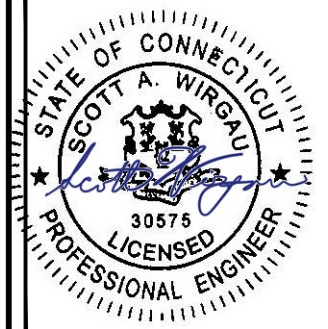
5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



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JD	SRF	SRF
RFDS REV #:	----	

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DISH WIRELESS, L.L.C.
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NJJER02048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

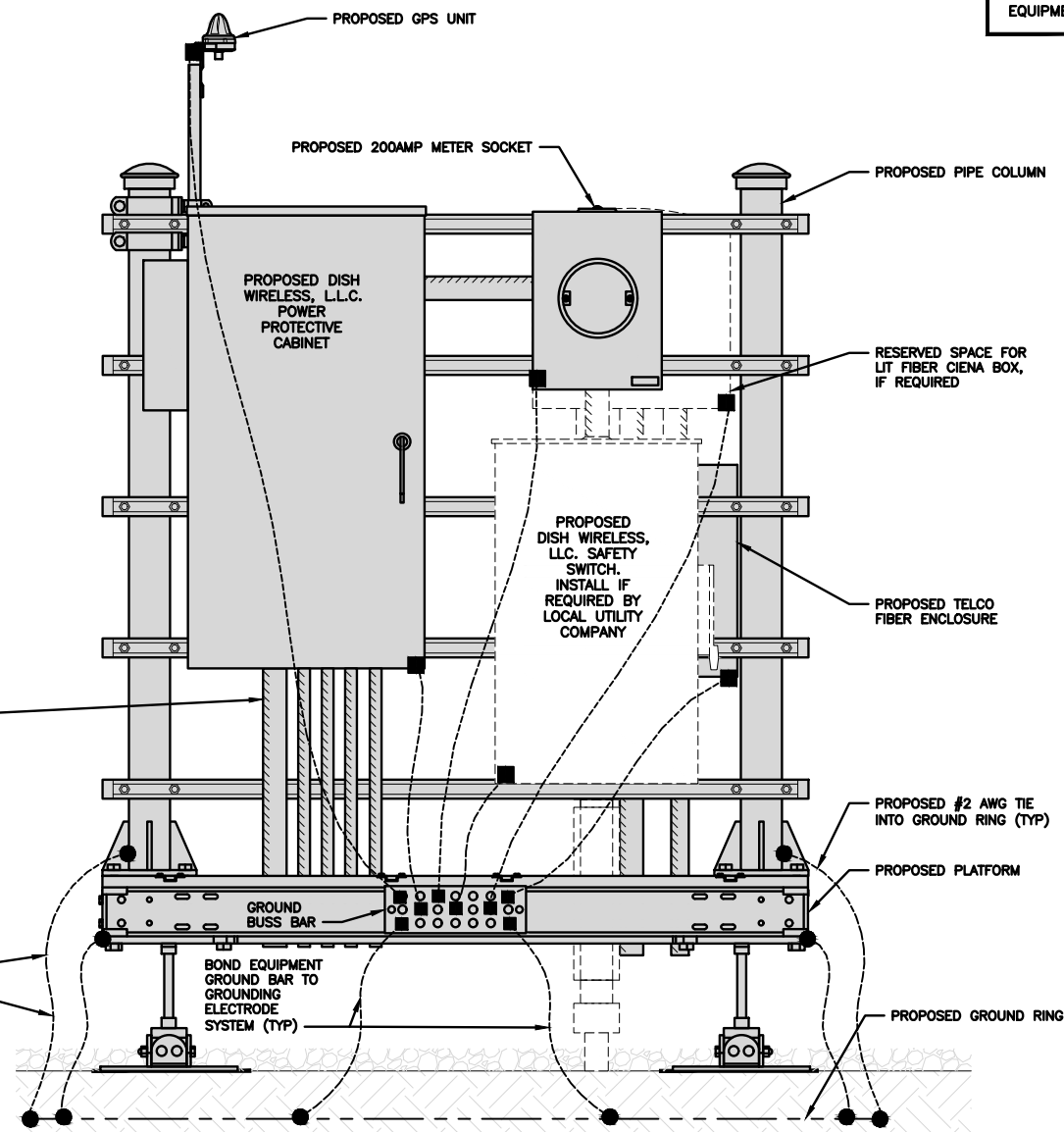
SHEET TITLE
GROUNDING PLANS
AND NOTES

SHEET NUMBER

G-1

NOTES

EQUIPMENT CABINET OMITTED FOR CLARITY

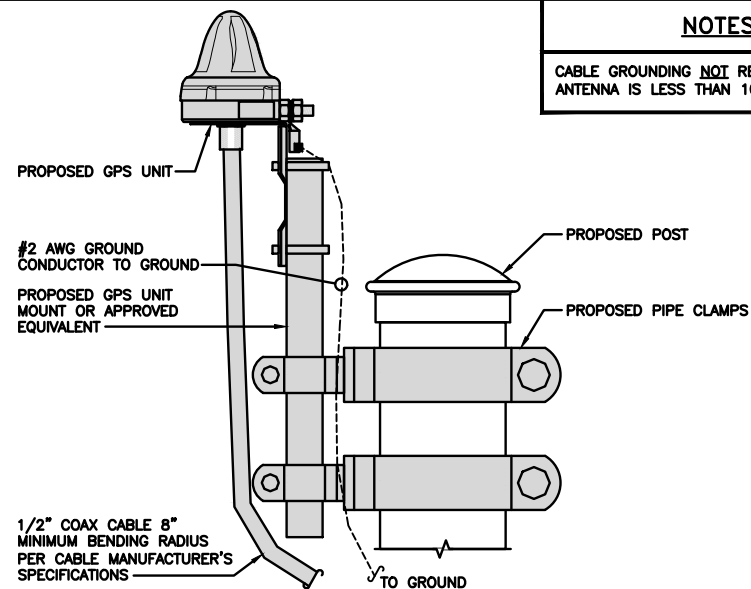


H-FRAME GROUNDING DETAIL

NO SCALE 1

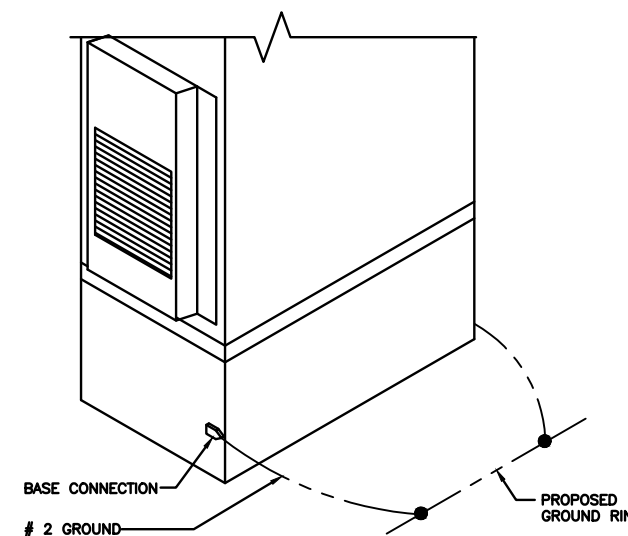
NOTES

CABLE GROUNDING NOT REQUIRED WHEN ANTENNA IS LESS THAN 10' FROM CABINET



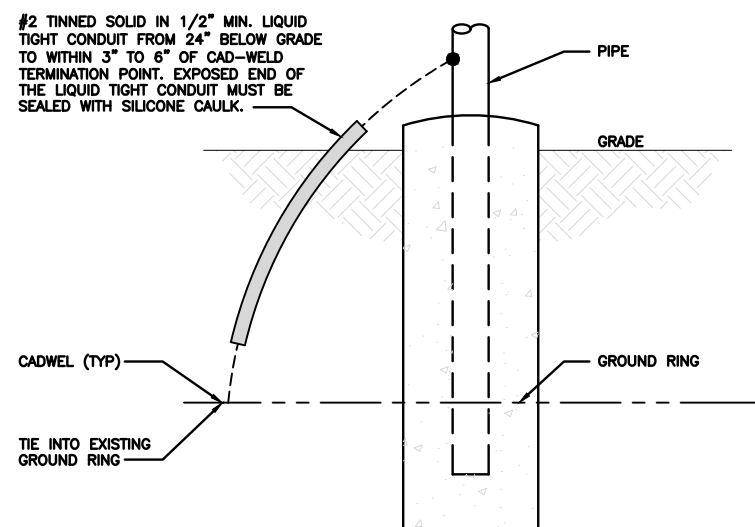
TYPICAL GPS UNIT GROUNDING

NO SCALE 2



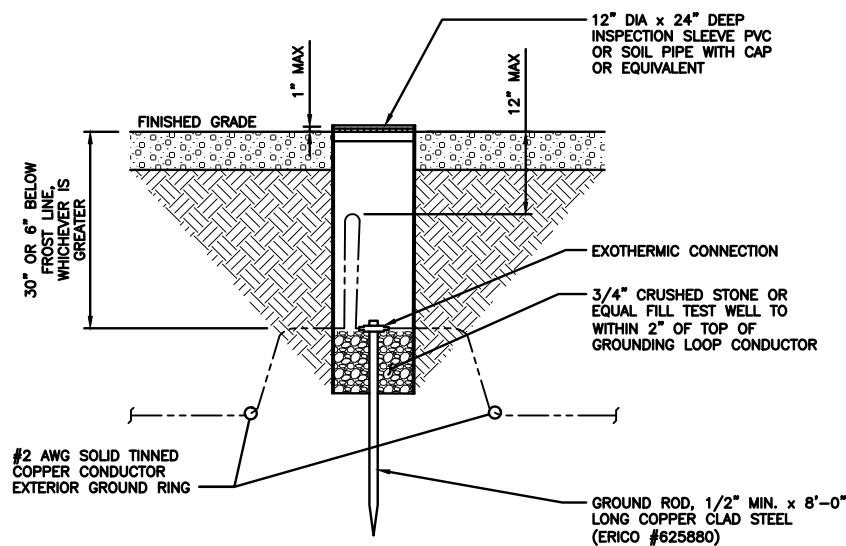
OUTDOOR CABINET GROUNDING

NO SCALE 3



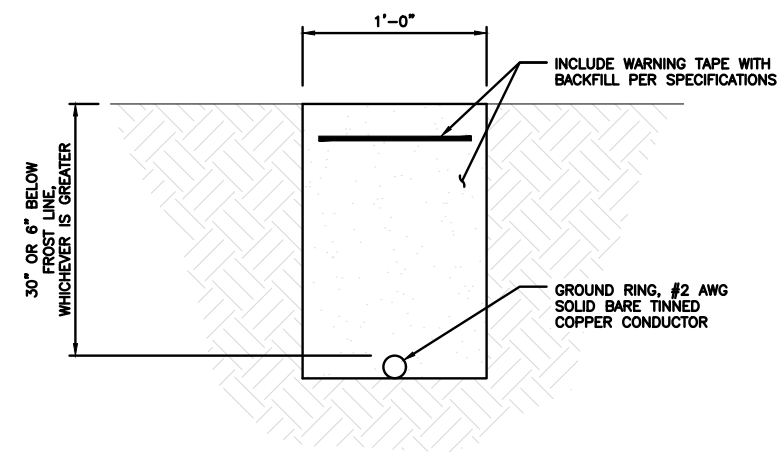
TRANSITIONING GROUND DETAIL

NO SCALE 4



TYPICAL TEST GROUND ROD WITH INSPECTION SLEEVE

NO SCALE 5



TYPICAL GROUND RING TRENCH

NO SCALE 6

dish
wireless.

5701 SOUTH SANTA FE DRIVE
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AMERICAN TOWER
A.T. ENGINEERING SERVICE, PLLC
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PHONE: (919) 468-0112

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JD SRF SRF

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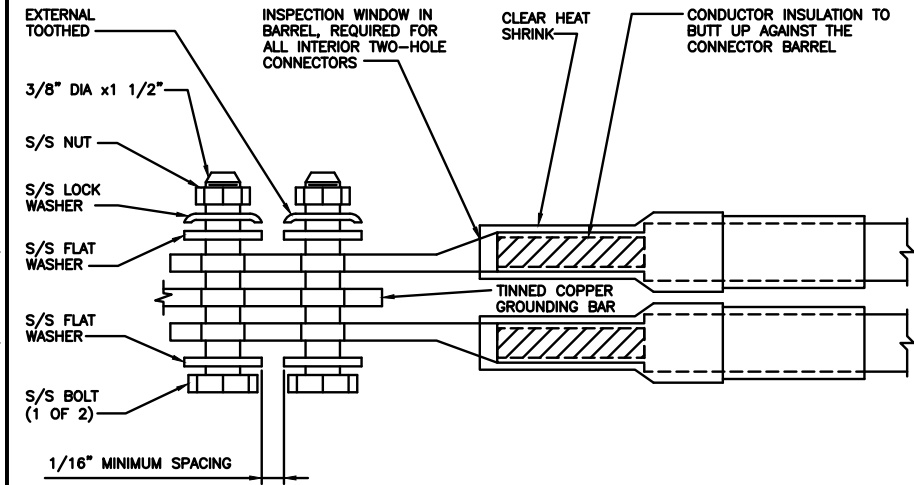
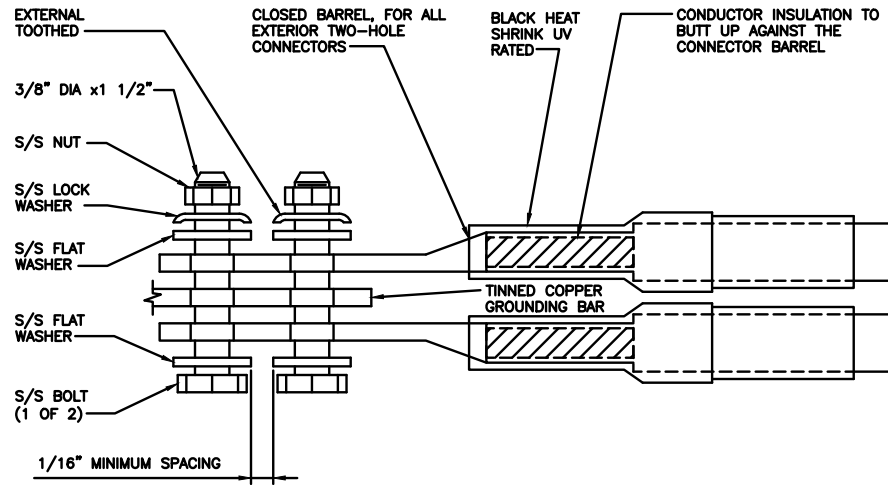
DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJERO2048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER

G-2

1. EXOTHERMIC WELD (2) TWO, #2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUND BAR. ROUTE CONDUCTORS TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
2. ALL EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
3. FOR GROUND BOND TO STEEL ONLY: COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
4. DO NOT INSTALL CABLE GROUNDING KIT AT A BEND AND ALWAYS DIRECT GROUND CONDUCTOR DOWN TO GROUNDING BUS.
5. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE.
6. ALL GROUNDING PARTS AND EQUIPMENT TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR AS REQUIRED.
8. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).



TYPICAL GROUNDING NOTES

NO SCALE

1

TYPICAL EXTERIOR TWO HOLE LUG

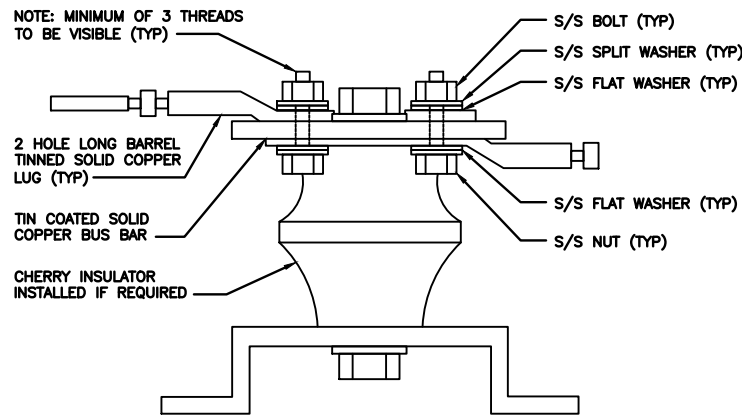
NO SCALE

2

TYPICAL INTERIOR TWO HOLE LUG

NO SCALE

3



LUG DETAIL

NO SCALE

4

NOT USED

NO SCALE

5

NOT USED

NO SCALE

6

NOT USED

NO SCALE

7

NOT USED

NO SCALE

8

NOT USED

NO SCALE

9

dish
wireless.

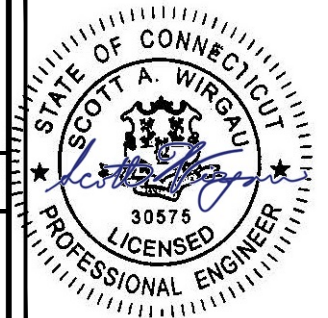
5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

AMERICAN TOWER
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
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PHONE: (919) 468-0112

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JD	SRF	SRF
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DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJERO2048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER

G-3

RF JUMPER COLOR CODING

3/4" TAPE WIDTHS WITH 3/4" SPACING

LOW-BAND RRH -
(600MHz N71 BASEBAND) +
(850MHz N26 BAND) +
(700MHz N29 BAND) - OPTIONAL PER MARKET

ADD FREQUENCY COLOR TO SECTOR BAND
(CBRS WILL USE YELLOW BANDS)

ALPHA RRH				BETA RRH				GAMMA RRH			
PORT 1 + SLANT	PORT 2 - SLANT	PORT 3 + SLANT	PORT 4 - SLANT	PORT 1 + SLANT	PORT 2 - SLANT	PORT 3 + SLANT	PORT 4 - SLANT	PORT 1 + SLANT	PORT 2 - SLANT	PORT 3 + SLANT	PORT 4 - SLANT
RED	RED	RED	RED	BLUE	BLUE	BLUE	BLUE	GREEN	GREEN	GREEN	GREEN
ORANGE	ORANGE	RED	RED	ORANGE	ORANGE	BLUE	BLUE	ORANGE	ORANGE	GREEN	GREEN
	WHITE (-) PORT	ORANGE	ORANGE		WHITE (-) PORT	ORANGE	ORANGE		WHITE (-) PORT	ORANGE	ORANGE
			WHITE (-) PORT				WHITE (-) PORT				WHITE (-) PORT

MID-BAND RRH -
(AWS BANDS N66+N70)

ADD FREQUENCY COLOR TO SECTOR BAND
(CBRS WILL USE YELLOW BANDS)

RED	RED	RED	RED	BLUE	BLUE	BLUE	BLUE	GREEN	GREEN	GREEN	GREEN
PURPLE	PURPLE	RED	RED	PURPLE	PURPLE	BLUE	BLUE	PURPLE	PURPLE	GREEN	GREEN
	WHITE (-) PORT	PURPLE	PURPLE		WHITE (-) PORT	PURPLE	PURPLE		WHITE (-) PORT	PURPLE	PURPLE
			WHITE (-) PORT				WHITE (-) PORT				WHITE (-) PORT

HYBRID/DISCREET CABLES

INCLUDE SECTOR BANDS BEING SUPPORTED
ALONG WITH FREQUENCY BANDS

EXAMPLE 1 - HYBRID, OR DISCREET, SUPPORTS
ALL SECTORS, BOTH LOW-BANDS AND MID-BANDS

EXAMPLE 2 - HYBRID, OR DISCREET, SUPPORTS
CBRS ONLY, ALL SECTORS

EXAMPLE 1	EXAMPLE 2	EXAMPLE 3
RED	RED	RED
BLUE	BLUE	
GREEN	GREEN	ORANGE
ORANGE	YELLOW	PURPLE
PURPLE		

FIBER JUMPERS TO RRHs

LOW-BAND RRH FIBER CABLES HAVE SECTOR
STRIPE ONLY

LOW BAND RRH	HIGH BAND RRH	LOW BAND RRH	HIGH BAND RRH	LOW BAND RRH	HIGH BAND RRH
RED	RED	BLUE	BLUE	GREEN	GREEN
	PURPLE		PURPLE		PURPLE

POWER CABLES TO RRHs

LOW-BAND RRH POWER CABLES HAVE SECTOR
STRIPE ONLY

LOW BAND RRH	HIGH BAND RRH	LOW BAND RRH	HIGH BAND RRH	LOW BAND RRH	HIGH BAND RRH
RED	RED	BLUE	BLUE	GREEN	GREEN
	PURPLE		PURPLE		PURPLE

RET MOTORS AT ANTENNAS

ANTENNA 1 LOW BAND/ "IN"	ANTENNA 1 HIGH BAND/ "IN"	ANTENNA 1 LOW BAND/ "IN"	ANTENNA 1 HIGH BAND/ "IN"	ANTENNA 1 LOW BAND/ "IN"	ANTENNA 1 HIGH BAND/ "IN"
RED	RED	BLUE	BLUE	GREEN	GREEN
	PURPLE		PURPLE		PURPLE

MICROWAVE RADIO LINKS

LINKS WILL HAVE A 1.5-2 INCH WHITE WRAP WITH
THE AZIMUTH COLOR OVERLAPPING IN THE MIDDLE.
ADD ADDITIONAL SECTOR COLOR BANDS FOR EACH
ADDITIONAL MW RADIO.

MICROWAVE CABLES WILL REQUIRE P-TOUCH
LABELS INSIDE THE CABINET TO IDENTIFY THE
LOCAL AND REMOTE SITE ID'S

FORWARD AZIMUTH OF 0-120 DEGREES		FORWARD AZIMUTH OF 120-240 DEGREES		FORWARD AZIMUTH OF 240-360 DEGREES	
PRIMARY	SECONDARY	PRIMARY	SECONDARY	PRIMARY	SECONDARY
WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
RED	RED	BLUE	BLUE	GREEN	GREEN
WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
	RED		BLUE		GREEN
	WHITE		WHITE		WHITE
	WHITE		WHITE		WHITE

RF CABLE COLOR CODES

NO SCALE

1

LOW BANDS (N71+N26)
OPTIONAL - (N29)



AWS
(N66+N70+H-BLOCK)



CBRS TECH
(3 GHz)



NEGATIVE SLANT PORT
ON ANT/RRH



ALPHA SECTOR



BETA SECTOR



GAMMA SECTOR



COLOR IDENTIFIER

NO SCALE

2

NOT USED

NO SCALE

3

NOT USED

NO SCALE

4

dish
wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



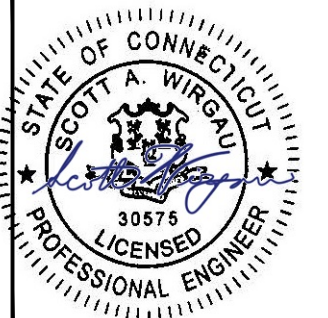
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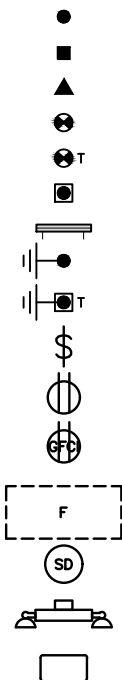
DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJER02048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
RF
CABLE COLOR CODES

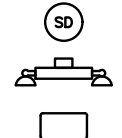
SHEET NUMBER

RF-1

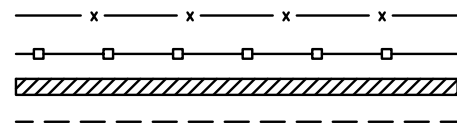
EXOTHERMIC CONNECTION
 MECHANICAL CONNECTION
 BUSS BAR INSULATOR
 CHEMICAL ELECTROLYTIC GROUNDING SYSTEM
 TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM
 EXOTHERMIC WITH INSPECTION SLEEVE
 GROUNDING BAR
 GROUND ROD
 TEST GROUND ROD WITH INSPECTION SLEEVE
 SINGLE POLE SWITCH
 DUPLEX RECEPTACLE
 DUPLEX GFCI RECEPTACLE
 FLUORESCENT LIGHTING FIXTURE
 (2) TWO LAMPS 48-T8



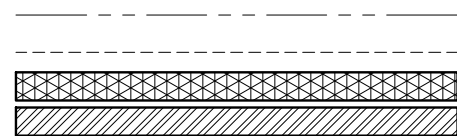
SMOKE DETECTION (DC)
 EMERGENCY LIGHTING (DC)
 SECURITY LIGHT W/PHOTOCELL LITHONIA ALXW
 LED-1-25A400/51K-SR4-120-PE-DBTDX



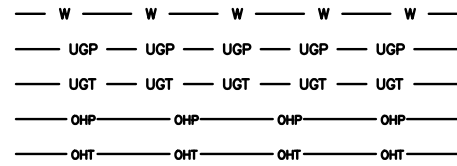
CHAIN LINK FENCE
 WOOD/WROUGHT IRON FENCE
 WALL STRUCTURE
 LEASE AREA



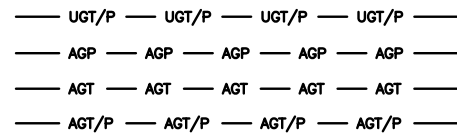
PROPERTY LINE (PL)
 SETBACKS
 ICE BRIDGE
 CABLE TRAY



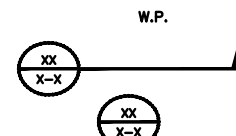
WATER LINE
 UNDERGROUND POWER
 UNDERGROUND TELCO
 OVERHEAD POWER
 OVERHEAD TELCO



UNDERGROUND TELCO/POWER
 ABOVE GROUND POWER
 ABOVE GROUND TELCO
 ABOVE GROUND TELCO/POWER



WORKPOINT
 SECTION REFERENCE
 DETAIL REFERENCE



AB ANCHOR BOLT
 ABV ABOVE
 AC ALTERNATING CURRENT
 ADDL ADDITIONAL
 AFF ABOVE FINISHED FLOOR
 AFG ABOVE FINISHED GRADE
 AGL ABOVE GROUND LEVEL
 AIC AMPERAGE INTERRUPTION CAPACITY
 ALUM ALUMINUM
 ALT ALTERNATE
 ANT ANTENNA
 APPROX APPROXIMATE
 ARCH ARCHITECTURAL
 ATS AUTOMATIC TRANSFER SWITCH
 AWG AMERICAN WIRE GAUGE
 BATT BATTERY
 BLDG BUILDING
 BLK BLOCK
 BLKG BLOCKING
 BM BEAM
 BTC BARE TINNED COPPER CONDUCTOR
 BOF BOTTOM OF FOOTING
 CAB CABINET
 CANT CANTILEVERED
 CHG CHARGING
 CLG CEILING
 CLR CLEAR
 COL COLUMN
 COMM COMMON
 CONC CONCRETE
 CONSTR CONSTRUCTION
 DBL DOUBLE
 DC DIRECT CURRENT
 DEPT DEPARTMENT
 DF DOUGLAS FIR
 DIA DIAMETER
 DIAG DIAGONAL
 DIM DIMENSION
 DWG DRAWING
 DWL DOWEL
 EA EACH
 EC ELECTRICAL CONDUCTOR
 EL ELEVATION
 ELEC ELECTRICAL
 EMT ELECTRICAL METALLIC TUBING
 ENG ENGINEER
 EQ EQUAL
 EXP EXPANSION
 EXT EXTERIOR
 EW EACH WAY
 FAB FABRICATION
 FF FINISH FLOOR
 FG FINISH GRADE
 FIF FACILITY INTERFACE FRAME
 FIN FINISH(ED)
 FLR FLOOR
 FDN FOUNDATION
 FOC FACE OF CONCRETE
 FOM FACE OF MASONRY
 FOS FACE OF STUD
 FOW FACE OF WALL
 FS FINISH SURFACE
 FT FOOT
 FTG FOOTING
 GA GAUGE
 GEN GENERATOR
 GFCI GROUND FAULT CIRCUIT INTERRUPTER
 GLB GLUE LAMINATED BEAM
 GLV GALVANIZED
 GPS GLOBAL POSITIONING SYSTEM
 GND GROUND
 GSM GLOBAL SYSTEM FOR MOBILE
 HDG HOT DIPPED GALVANIZED
 HDR HEADER
 HGR HANGER
 HVAC HEAT/VENTILATION/AIR CONDITIONING
 HT HEIGHT
 IGR INTERIOR GROUND RING

IN INCH
 INT INTERIOR
 LB(S) POUND(S)
 LF LINEAR FEET
 LTE LONG TERM EVOLUTION
 MAS MASONRY
 MAX MAXIMUM
 MB MACHINE BOLT
 MECH MECHANICAL
 MFR MANUFACTURER
 MGB MASTER GROUND BAR
 MIN MINIMUM
 MISC MISCELLANEOUS
 MTL METAL
 MTS MANUAL TRANSFER SWITCH
 MW MICROWAVE
 NEC NATIONAL ELECTRIC CODE
 NM NEWTON METERS
 NO. NUMBER
 # NUMBER
 NTS NOT TO SCALE
 OC ON-CENTER
 OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 OPNG OPENING
 P/C PRECAST CONCRETE
 PCS PERSONAL COMMUNICATION SERVICES
 PCU PRIMARY CONTROL UNIT
 PRC PRIMARY RADIO CABINET
 PP POLARIZING PRESERVING
 PSF POUNDS PER SQUARE FOOT
 PSI POUNDS PER SQUARE INCH
 PT PRESSURE TREATED
 PWR POWER CABINET
 QTY QUANTITY
 RAD RADIUS
 RECT RECTIFIER
 REF REFERENCE
 REINF REINFORCEMENT
 REQ'D REQUIRED
 RET REMOTE ELECTRIC TILT
 RF RADIO FREQUENCY
 RMC RIGID METALLIC CONDUIT
 RRH REMOTE RADIO HEAD
 RRU REMOTE RADIO UNIT
 RWY RACEWAY
 SCH SCHEDULE
 SHT SHEET
 SIAD SMART INTEGRATED ACCESS DEVICE
 SIM SIMILAR
 SPEC SPECIFICATION
 SQ SQUARE
 SS STAINLESS STEEL
 STD STANDARD
 STL STEEL
 TEMP TEMPORARY
 THK THICKNESS
 TMA TOWER MOUNTED AMPLIFIER
 TN TOE NAIL
 TOA TOP OF ANTENNA
 TOC TOP OF CURB
 TOF TOP OF FOUNDATION
 TOP TOP OF PLATE (PARAPET)
 TOS TOP OF STEEL
 TOW TOP OF WALL
 TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
 TYP TYPICAL
 UG UNDERGROUND
 UL UNDERWRITERS LABORATORY
 UNO UNLESS NOTED OTHERWISE
 UMTS UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
 UPS UNINTERRUPTIBLE POWER SYSTEM (DC POWER PLANT)
 VIF VERIFIED IN FIELD
 W WIDE
 W/ WITH
 WD WOOD
 WP WEATHERPROOF
 WT WEIGHT

LEGEND

ABBREVIATIONS

dish
 wireless.

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DRAWN BY: CHECKED BY: APPROVED BY:
 JD SRF SRF

RFDS REV #: ----

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
0	10/29/2021	ISSUED FOR CONSTRUCTION
1	11/29/2021	ANTENNA MODEL



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

A&E PROJECT NUMBER
 283420-13712876_D2

DISH WIRELESS, L.L.C.
 PROJECT INFORMATION
 NJJERO2048A
 23 STONYBROOK ROAD
 STRATFORD, CT 06614

SHEET TITLE
 LEGEND AND ABBREVIATIONS

SHEET NUMBER
GN-1

SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED – NO WORK SHALL COMMENCE PRIOR TO CONTRACTOR RECEIVING A WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE DISH WIRELESS, L.L.C. AND TOWER OWNER NOC & THE DISH WIRELESS, L.L.C. AND TOWER OWNER CONSTRUCTION MANAGER.
2. "LOOK UP" – DISH WIRELESS, L.L.C. AND TOWER OWNER SAFETY CLIMB REQUIREMENT:
THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR DISH WIRELESS, L.L.C. AND DISH WIRELESS, L.L.C. AND TOWER OWNER POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. 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 ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND DISH WIRELESS, L.L.C. AND TOWER OWNER STANDARDS, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH DISH WIRELESS, L.L.C. AND TOWER OWNER INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON DISH WIRELESS, L.L.C. AND TOWER OWNER TOWER SITE AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY DISH WIRELESS, L.L.C. AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES INCLUDING PRIVATE LOCATES SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND DISH PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF DISH WIRELESS, L.L.C. AND TOWER OWNER, AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS AND RADIOS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
CARRIER: DISH WIRELESS, L.L.C.
TOWER OWNER: TOWER OWNER
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CARRIER POC AND TOWER OWNER.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION, BEFORE SUBMITTING BIDS, TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF DISH WIRELESS, L.L.C. AND TOWER OWNER
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.



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LITTLETON, CO 80120

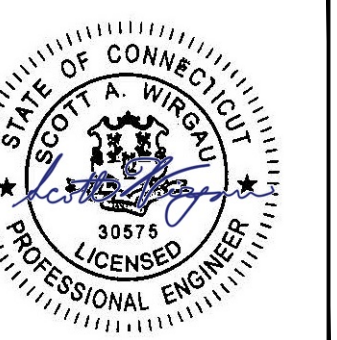


DRAWN BY:	CHECKED BY:	APPROVED BY:
JD	SRF	SRF

RFDS REV #: -----

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REV	DATE	DESCRIPTION
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A&E PROJECT NUMBER
283420-13712876_D2

DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJERO2048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-2

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
 - #4 BARS AND SMALLER 40 ksi
 - #5 BARS AND LARGER 60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 BARS AND LARGER 2"
 - #5 BARS AND SMALLER 1-1/2"
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
 - SLAB AND WALLS 3/4"
 - BEAMS AND COLUMNS 1-1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- 4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
- 4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. TIE WRAPS ARE NOT ALLOWED.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

16. ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3 (OR BETTER) FOR EXTERIOR LOCATIONS.
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR DISH WIRELESS, L.L.C. AND TOWER OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "DISH WIRELESS, L.L.C."
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

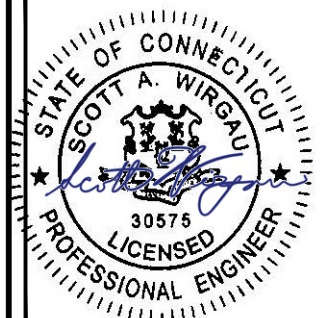


DRAWN BY:	CHECKED BY:	APPROVED BY:
JD	SRF	SRF

RFDS REV #: -----

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
0	10/29/2021	ISSUED FOR CONSTRUCTION
1	11/29/2021	ANTENNA MODEL



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

A&E PROJECT NUMBER
283420-13712876_D2

DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJERO2048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-3

GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). DO NOT ATTACH GROUNDING TO FIRE SPRINKLER SYSTEM PIPES.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
 - A. ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
 - B. ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
 - C. ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
 - D. ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
 - E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:
 - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
 - B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
 - C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
 - D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
 - E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
 - F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
 - G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
 - H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
 - I. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND DISH WIRELESS L.L.C. PROJECT MANAGER IN WRITING



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

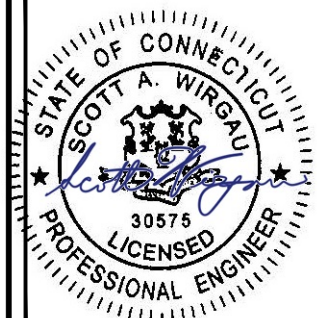


DRAWN BY:	CHECKED BY:	APPROVED BY:
JD	SRF	SRF

RFDS REV #: -----

CONSTRUCTION DOCUMENTS

SUBMITTALS		
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A&E PROJECT NUMBER
283420-13712876_D2

DISH WIRELESS, L.L.C.
PROJECT INFORMATION
NJJERO2048A
23 STONYBROOK ROAD
STRATFORD, CT 06614

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-4

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Stratford, CT

The Honorable Laura R. Hoydick - the Mayor of Stratford



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Stratford, CT

Jay Habansky – Stratford Planning & Zoning Administrator



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Stratford, CT

Stoneybrook Management LLC - Property Owner



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June 11, 11:32AM

Woburn, MA

American Tower Corporation - Tower Operator/Owner



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June 9, 2022

The Honorable Laura R. Hoydick
Stratford Town Hall
2725 Main Street
Stratford, CT 06615

Re: Tower Share Application – Dish Site 13712876
Dish Wireless Telecommunications Facility @ 23 Stonybrook Road, Stratford, CT 06614

Dear Mayor Hoydick:

Dish Wireless (“Dish”) is proposing a new wireless telecommunications facility on an existing one hundred and nineteen (119) foot tall monopole tower at 23 Stonybrook Road, Stratford, CT 06614 (Latitude: 41.20327777, Longitude: -73.148625) and within the existing fenced compound. The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Stonybrook Management LLC. The tower was approved by the Council on February 25, 2010, in Docket Number 385, a copy of which is enclosed.

Dish proposes to install a five (5) foot by seven (7) foot metal platform within the existing fenced compound and install three (3) antennas, a single antenna mount, six (6) RRUs, and cables on the existing tower at one hundred seven feet (107.0’) AGL as more particularly detailed and described on the enclosed Construction Drawings. No height extension or compound expansion are proposed.

This letter is intended to serve as the required notice to the chief elected official of the municipality. As required by Regulations of Connecticut State Agencies (“RCSA”) 16-50j-73 the Connecticut Siting Council (“CSC”) has been notified of this proposal and will review this application. Please accept this letter as notification pursuant to RSCA 16-50j-73.

The enclosed letter and attachments to the CSC fully describe Dish’s proposal for the site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachmann, Acting Executive Director of the CSC at 860-972-2935.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read 'JA', is written over the printed name 'Jack Andrews'.

Jack Andrews
Zoning Manager, Centerline Communications
10130 Donleigh Drive
Columbia, MD 21046
443-677-0144

Enclosures



June 9, 2022

Jay Habansky, Planning & Zoning Administrator
Stratford Town Hall
2725 Main Street
Stratford, CT 06615

Re: Tower Share Application – Dish Site 13712876
Dish Wireless Telecommunications Facility @ 23 Stonybrook Road, Stratford, CT 06614

Dear Mr. Habansky:

Dish Wireless (“Dish”) is proposing a new wireless telecommunications facility on an existing one hundred and nineteen (119) foot tall monopole tower at 23 Stonybrook Road, Stratford, CT 06614 (Latitude: 41.20327777, Longitude: -73.148625) and within the existing fenced compound. The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Stonybrook Management LLC. The tower was approved by the Council on February 25, 2010, in Docket Number 385, a copy of which is enclosed.

Dish proposes to install a five (5) foot by seven (7) foot metal platform within the existing fenced compound and install three (3) antennas, a single antenna mount, six (6) RRUs, and cables on the existing tower at one hundred seven feet (107.0’) AGL as more particularly detailed and described on the enclosed Construction Drawings. No height extension or compound expansion are proposed.

This letter is intended to serve as the required notice to the municipal planning agency. As required by Regulations of Connecticut State Agencies (“RCSA”) 16-50j-73 the Connecticut Siting Council (“CSC”) has been notified of this proposal and will review this application. Please accept this letter as notification pursuant to RSCA 16-50j-73.

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Respectfully Submitted,

A handwritten signature in blue ink, appearing to read 'Jack Andrews', is written over a circular blue stamp or seal.

Jack Andrews
Zoning Manager, Centerline Communications
443-677-0144

Enclosures



June 9, 2022

Stoneybrook Management LLC
23 Stonybrook Road
Stratford, CT 06614

Re: Tower Share Application – Dish Site 13712876
Dish Wireless Telecommunications Facility @ 23 Stonybrook Road, Stratford, CT 06614

Dear Property Owner:

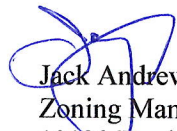
Dish Wireless (“Dish”) is proposing a new wireless telecommunications facility on an existing one hundred and nineteen (119) foot tall monopole tower at 23 Stonybrook Road, Stratford, CT 06614 (Latitude: 41.20327777, Longitude: -73.148625) and within the existing fenced compound. The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Stoneybrook Management LLC. The tower was approved by the Council on February 25, 2010, in Docket Number 385, a copy of which is enclosed.

Dish proposes to install a five (5) foot by seven (7) foot metal platform within the existing fenced compound and install three (3) antennas, a single antenna mount, six (6) RRUs, and cables on the existing tower at one hundred seven feet (107.0’) AGL as more particularly detailed and described on the enclosed Construction Drawings. No height extension or compound expansion are proposed.

This letter is intended to serve as the required notice to the property owner. As required by Regulations of Connecticut State Agencies (“RCSA”) 16-50j-73 the Connecticut Siting Council (“CSC”) has been notified of this proposal and will review this application. Please accept this letter as notification pursuant to RSCA 16-50j-73.

The enclosed letter and attachments to the CSC fully describe Dish’s proposal for the site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachmann, Acting Executive Director of the CSC at 860-972-2935.

Respectfully Submitted,


Jack Andrews
Zoning Manager, Centerline Communications
10130 Donleigh Drive
Columbia, MD 21046
443-677-0144

Enclosures

Jack Andrews, Zoning Manager 10130 Donleigh Drive, Columbia, MD 21046 (443) 677-0144
Centerline Communications • 750 W Center Street, Suite 301, W Bridgewater, MA 02379



June 9, 2022

Blake Paynter
Project Manager, Site Development
American Tower Corporation
10 Presidential Way
Woburn, MA 01801

Re: Tower Share Application – Dish Site 13712876
Dish Wireless Telecommunications Facility @ 23 Stonybrook Road, Stratford, CT 06614

Dear Mr. Paynter:

Dish Wireless (“Dish”) is proposing a new wireless telecommunications facility on an existing one hundred and nineteen (119) foot tall monopole tower at 23 Stonybrook Road, Stratford, CT 06614 (Latitude: 41.20327777, Longitude: -73.148625) and within the existing fenced compound. The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Stonybrook Management LLC. The tower was approved by the Council on February 25, 2010, in Docket Number 385, a copy of which is enclosed.

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Respectfully Submitted,

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Jack Andrews
Zoning Manager, Centerline Communications
10130 Donleigh Drive
Columbia, MD 21046
443-677-0144

Enclosures

Jack Andrews, Zoning Manager 10130 Donleigh Drive, Columbia, MD 21046 (443) 677-0144
Centerline Communications • 750 W Center Street, Suite 301, W Bridgewater, MA 02379