

SUMMARY & RESULTS

The purpose of this feasibility analysis was to verify whether the existing structure is capable of carrying the proposed loading configuration as specified by Verizon to CTI Towers, Inc. This report was commissioned by Ms. Christine Cooper of CTI Towers, Inc.

Modifications by GPD, Project #: 2015783.11201.01 Rev 1, dated 12/22/2015, consisting of reinforcing the diagonals and the frame connecting the structure to the adjacent building, have been considered in this analysis.

This feasibility analysis is limited to the above grade structure and its main structural members per TIA-222-G section 15.5.1.

The proposed coax shall be installed on tower Face B in a single row in order for the analysis results to be valid. See Appendix C for the proposed coax layout.

TOWER SUMMARY AND RESULTS

Member	Capacity	Results
Leg	59.1 %	Pass
Diagonal	98.1 %	Pass
Horizontal	44.0%	Pass
Inner Bracing	77.0%	Pass
Bolt Checks	11.7%	Pass
Tower-Building Connection	82.1 %	Pass

ANALYSIS METHOD

tnxTower (Version 6.1.4.1) and RISA-3D (Verizon 12.0.0), commercially available software programs, were used to create a three-dimensional model of the tower and calculate primary member stresses for various dead, live, wind, and ice load cases. Selected output from the analysis is included in Appendix B. The following table details the information provided to complete this structural analysis. This analysis is solely based on this information and is being completed without the benefit of a detailed GPD site visit.

DOCUMENTS PROVIDED

Document	Remarks	Source
Site Lease Application	Verizon Site Lease Application, dated 7/24/2015	CTI
Tower Design	Not Provided	N/A
Foundation Design	Not Provided	N/A
Geotechnical Report	Not Provided	N/A
Modification Drawings	GPD Project #: 2015783.11201.01 Rev 1, dated 12/22/2015	GPD
Tower Mapping	FDH Job #: 1424V21500, dated 4/4/2014	CTI

ASSUMPTIONS

This feasibility structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the tower. This analysis is from information supplied, and therefore, its results are based on and are as accurate as that supplied data. GPD has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural analysis.

1. The tower member sizes and shapes are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated in the materials section.
2. The antenna configuration is as supplied and/or as modeled in the analysis. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements.
3. Some assumptions are made regarding antennas and mount sizes and their projected areas based on best interpretation of data supplied and of best knowledge of antenna type and industry practice.
4. All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed. This analysis is limited to analyzing the tower only.
5. The soil parameters are as per data supplied or as assumed and stated in the calculations.
6. Foundations are properly designed and constructed to resist the original design loads indicated in the documents provided.
7. The tower and structures have been properly maintained in accordance with TIA Standards and/or with manufacturer's specifications.
8. All welds and connections are assumed to develop at least the member capacity unless determined otherwise and explicitly stated in this report.
9. All prior structural modifications are assumed to be as per data supplied/available and to have been properly installed.
10. Loading interpreted from photos is accurate to $\pm 5'$ AGL, antenna size accurate to ± 3.3 sf, and coax equal to the number of existing antennas without reserve.
11. All existing loading was obtained from the tower mapping by FDH (Job #: 1424V21500, dated 4/4/2014) and is assumed to be accurate.
12. The proposed coax shall be installed on tower Face B in a single row in order for the analysis results to be valid. See Appendix C for the proposed coax layout.
13. Tower Leg A was found to be at 315 degrees based on the provided tower mapping and satellite imagery.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and GPD should be allowed to review any new information to determine its effect on the structural integrity of the tower.

DISCLAIMER OF WARRANTIES

GPD has not performed a site visit to the tower to verify the member sizes or antenna/coax loading. If the existing conditions are not as represented on the tower elevation contained in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD in connection with this Feasibility Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

This analysis is limited to the designated maximum wind and seismic conditions per the governing tower standards and code. Wind forces resulting in tower vibrations near the structure's resonant frequencies were not considered in this analysis and are outside the scope of this analysis. Lateral loading from any dynamic response was not evaluated under a time-domain based fatigue analysis.

GPD does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing tower. GPD provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the capability of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed tower. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts, etc., have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

Towers are designed to carry gravity, wind, and ice loads. All members, legs, diagonals, struts, and redundant members provide structural stability to the tower with little redundancy. Absence or removal of a member can trigger catastrophic failure unless a substitute is provided before any removal. Legs carry axial loads and derive their strength from shorter unbraced lengths by the presence of redundant members and their connection to the diagonals with bolts or welds. If the bolts or welds are removed without providing any substitute to the frame, the leg is subjected to a higher unbraced length that immediately reduces its load carrying capacity. If a diagonal is also removed in addition to the connection, the unbraced length of the leg is greatly increased, jeopardizing its load carrying capacity. Failure of one leg can result in a tower collapse because there is no redundancy. Redundant members and diagonals are critical to the stability of the tower.

GPD makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD pursuant to this report will be limited to the total fee received for preparation of this report.

APPENDIX A

Tower Analysis Summary Form

Tower Analysis Summary Form

General Info

Site Name	Clinton
Site Number	11201
Customer #:	Clinton SC 2
Date of Analysis	12/23/2015
Company Performing Analysis	GPD

The information contained in this summary report is not to be used independently from the PE stamped tower analysis.

Tower Info	Description	Date
Tower Type (G, SST, MP)	SST	
Tower Height (top of steel AGL)	67.5'	
Tower Manufacturer	n/a	
Tower Model	n/a	
Tower Design	n/a	
Foundation Design	n/a	
Geotech Report	n/a	
Tower Mapping	FDH Job #: 1424V21500	4/4/2014
Modification Drawings	GPD Project #: 2015783.11201.01 Rev 1	12/22/2015
Foundation Mapping	n/a	

Design Parameters	
Design Code Used	TIA/EIA-222-F
	2005 CT State Building Code
Location of Tower (County, State)	Middlesex, CT
Basic Wind Speed (mph)	85 (fastest-mile)
Ice Thickness (in)	0.75
Structure Classification (I, II, III)	
Exposure Category (B, C, D)	
Topographic Category (1 to 5)	

Analysis Results (% Maximum Usage)	
<i>Existing/Reserved + Proposed Condition (Modified)</i>	
Tower (%)	90.9%
Anchor Rods (%)	14.8%

Steel Yield Strength (ksi)

Legs	50
Diagonals	36
Bolts	A325N
Anchor Rods	A325N

Modifications by GPD, Project #: 2015783.11201.01 Rev 1, dated 12/22/2015 consisting of reinforcing the diagonals and the frame connecting the structure to the adjacent building, have been considered in this analysis.

Existing / Reserved Loading

Antenna								Mount			Transmission Line			
Antenna Owner	Mount Height (ft)	Antenna CL (ft)	Quantity	Type	Manufacturer	Model	Azimuth	Quantity	Manufacturer	Type	Quantity	Model	Size	Attachment Face/Leg
Unknown	60	60	3	Panel	RFS Celwave	APX16DWV-16DWVS	45/135/225	3	Unknown	Pipe Mounts	12	Unknown	7/8"	Face B
Unknown	60	60	6	TMA	Ericsson	KRY 112 76/1				on the same mounts	1	RET Cable	1/4"	Face B
Unknown	60	60	6	RET	RFS Celwave	ACU-A20-N				on the same mounts				

Proposed Loading

Antenna								Mount			Transmission Line			
Antenna Owner	Mount Height (ft)	Antenna CL (ft)	Quantity	Type	Manufacturer	Model	Azimuth	Quantity	Manufacturer	Type	Quantity	Model	Size	Attachment Face/Leg
Verizon	67	70	6	Panel	Commscope	SBNHH-1D65B	110/230/350	3	WiMax	CWT01 4' T-Arms	2	Hybrid	1-5/8"	Face B
Verizon	67	70	3	RRH	Alcatel Lucent	ALU 2X60 PCS				on the same mounts				
Verizon	67	70	3	RRH	Alcatel Lucent	ALU 2X60 LTE				on the same mounts				
Verizon	67	70	3	RRH	Alcatel Lucent	ALU 2X60 AWS				on the same mounts				
Verizon	67	70	2	Distribution Box	RFS Celwave	DB-T1-6Z-8AB-0Z				on the same mounts				

Note: The proposed coax shall be installed on tower Face B in a single row in order for the analysis results to be valid. See Appendix C for the proposed coax layout.

APPENDIX B

tnxTower Output File

tnxTower GPD 520 South Main Street, Suite 2531 Akron, OH 44311 Phone: (330) 572.2100 FAX: (330) 572.2101	Job	11201 Clinton	Page	1 of 4
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	Client	CTI Tower Assets II, LLC	Designed by	mmoeller

Tower Input Data

The main tower is a 4x free standing tower with an overall height of 67.50 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 2.40 ft at the top and 2.40 ft at the base.

This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

Tower is located in Middlesex County, Connecticut.

Basic wind speed of 85 mph.

Nominal ice thickness of 0.7500 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 37 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 50 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in tower member design is 1.333.

Special horizontal and vertical support at 25.00 on leg C,D.

Special horizontal support at 15.00 on leg C,D.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
Safety Line 3/8	A	Yes	Ar (CfAe)	67.50 - 0.00	0.0000	0	1	1	0.3750	0.3750		0.22
Climbing Ladder (Af)	A	Yes	Af (CfAe)	3.00 - 0.00	0.0000	0	1	1	3.8400	3.8400	15.3600	4.81
Climbing Ladder (Af)	A	Yes	Af (CfAe)	67.50 - 63.00	0.0000	0	1	1	3.8400	3.8400	15.3600	4.81
Coax Waveguide (9"x3")	B	Yes	Af (CfAe)	60.00 - 4.00	2.0000	0.45	1	1	0.2612	0.2612	1.0447	1.07
L1-1/2x1-1/2x 1/4 Secondary Horizontals (11201)	A	Yes	Af (CfAe)	35.00 - 0.00	0.0000	0	1	1	0.7500	0.7500	3.0000	3.06
L1-1/2x1-1/2x 1/4 Secondary Horizontals (11201)	B	Yes	Af (CfAe)	35.00 - 0.00	0.0000	0	1	1	0.7500	0.7500	3.0000	3.06
L1-1/2x1-1/2x 1/4 Secondary Horizontals (11201)	C	Yes	Af (CfAe)	35.00 - 0.00	0.0000	0	1	1	0.7500	0.7500	3.0000	3.06
L1-1/2x1-1/2x 1/4 Secondary Horizontals (11201)	D	Yes	Af (CfAe)	35.00 - 0.00	0.0000	0	1	1	0.7500	0.7500	3.0000	3.06
LDF5-50A (7/8 FOAM)	B	Yes	Ar (CfAe)	60.00 - 4.00	0.0000	0.5	4	1	1.0000	1.0900		0.33

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	Client	CTI Tower Assets II, LLC	Designed by	mmoeller

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	# Per Row	# Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
LDF5-50A (7/8 FOAM)	B	Yes	Ar (CfAe)	60.00 - 4.00	0.0000	0.35	4	4	0.5000	1.0900		0.33
LDF5-50A (7/8 FOAM)	B	Yes	Ar (CfAe)	60.00 - 4.00	3.0000	0.35	4	4	0.5000	1.0900		0.33
LDF1-50A (1/4 FOAM)	B	Yes	Ar (CfAe)	60.00 - 4.00	0.0000	0.3	1	1	0.3500	0.3500		0.06
1-5/8" Fiber Cable	B	Yes	Ar (CfAe)	67.00 - 4.00	0.0000	0	2	2	1.0000	1.9800		0.82

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	CAAA Front ft ²	CAAA Side ft ²	Weight K				
APX16DWV-16DWVS-C w/ 5' x 2" Mount Pipe	B	From Leg	1.00	0.0000	60.00	No Ice	7.31	3.34	0.059			
			0.00						1/2" Ice	7.78	3.99	0.106
			0.00						1" Ice	8.27	4.64	0.159
									2" Ice	9.26	6.01	0.287
									4" Ice	11.36	9.00	0.659
APX16DWV-16DWVS-C w/ 5' x 2" Mount Pipe	C	From Leg	1.00	0.0000	60.00	No Ice	7.31	3.34	0.059			
			0.00						1/2" Ice	7.78	3.99	0.106
			0.00						1" Ice	8.27	4.64	0.159
									2" Ice	9.26	6.01	0.287
									4" Ice	11.36	9.00	0.659
APX16DWV-16DWVS-C w/ 5' x 2" Mount Pipe	D	From Leg	1.00	0.0000	60.00	No Ice	7.31	3.34	0.059			
			0.00						1/2" Ice	7.78	3.99	0.106
			0.00						1" Ice	8.27	4.64	0.159
									2" Ice	9.26	6.01	0.287
									4" Ice	11.36	9.00	0.659
(2) KRY 112 76/1	B	From Leg	0.50	0.0000	60.00	No Ice	0.71	0.31	0.015			
			0.00						1/2" Ice	0.83	0.39	0.021
			0.00						1" Ice	0.96	0.47	0.028
									2" Ice	1.24	0.67	0.049
									4" Ice	1.90	1.18	0.117
(2) KRY 112 76/1	C	From Leg	0.50	0.0000	60.00	No Ice	0.71	0.31	0.015			
			0.00						1/2" Ice	0.83	0.39	0.021
			0.00						1" Ice	0.96	0.47	0.028
									2" Ice	1.24	0.67	0.049
									4" Ice	1.90	1.18	0.117
(2) KRY 112 76/1	D	From Leg	0.50	0.0000	60.00	No Ice	0.71	0.31	0.015			
			0.00						1/2" Ice	0.83	0.39	0.021
			0.00						1" Ice	0.96	0.47	0.028
									2" Ice	1.24	0.67	0.049
									4" Ice	1.90	1.18	0.117
(2) ACU-A20-N	B	From Leg	1.00	0.0000	60.00	No Ice	0.08	0.14	0.001			
			0.00						1/2" Ice	0.12	0.19	0.002
			0.00						1" Ice	0.17	0.25	0.004
									2" Ice	0.30	0.40	0.012
									4" Ice	0.67	0.80	0.045
(2) ACU-A20-N	C	From Leg	1.00	0.0000	60.00	No Ice	0.08	0.14	0.001			
			0.00						1/2" Ice	0.12	0.19	0.002
			0.00						1" Ice	0.17	0.25	0.004
									2" Ice	0.30	0.40	0.012
									4" Ice	0.67	0.80	0.045
(2) ACU-A20-N	D	From Leg	1.00	0.0000	60.00	No Ice	0.08	0.14	0.001			

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Vert						
			ft	ft	°	ft	ft ²	ft ²	K	
				0.00			1/2" Ice	0.12	0.19	0.002
				0.00			1" Ice	0.17	0.25	0.004
							2" Ice	0.30	0.40	0.012
							4" Ice	0.67	0.80	0.045
(2) Pipe Mount 4'x4.5"	B	From Face	1.00	0.00	0.0000	65.00	No Ice	1.32	1.32	0.043
			0.00	0.00			1/2" Ice	1.58	1.58	0.056
			0.00				1" Ice	1.84	1.84	0.072
							2" Ice	2.46	2.46	0.114
							4" Ice	3.89	3.89	0.241
CWT01 4' T-Arm	A	From Leg	0.50	0.00	0.0000	67.00	No Ice	2.87	0.82	0.084
			0.00	0.00			1/2" Ice	3.33	1.02	0.109
			0.00				1" Ice	3.80	1.22	0.134
							2" Ice	4.74	1.63	0.184
							4" Ice	6.61	2.45	0.284
CWT01 4' T-Arm	C	From Leg	0.50	0.00	0.0000	67.00	No Ice	2.87	0.82	0.084
			0.00	0.00			1/2" Ice	3.33	1.02	0.109
			0.00				1" Ice	3.80	1.22	0.134
							2" Ice	4.74	1.63	0.184
							4" Ice	6.61	2.45	0.284
CWT01 4' T-Arm	D	From Leg	0.50	0.00	0.0000	67.00	No Ice	2.87	0.82	0.084
			0.00	0.00			1/2" Ice	3.33	1.02	0.109
			0.00				1" Ice	3.80	1.22	0.134
							2" Ice	4.74	1.63	0.184
							4" Ice	6.61	2.45	0.284
(2) SBNHH-1D65B w/ Mount Pipe	A	From Leg	1.00	0.00	0.0000	67.00	No Ice	8.77	7.24	0.086
			0.00	0.00			1/2" Ice	9.52	8.52	0.157
			3.00				1" Ice	10.25	9.66	0.237
							2" Ice	11.64	11.59	0.423
							4" Ice	14.54	15.85	0.949
(2) SBNHH-1D65B w/ Mount Pipe	C	From Leg	1.00	0.00	0.0000	67.00	No Ice	8.77	7.24	0.086
			0.00	0.00			1/2" Ice	9.52	8.52	0.157
			3.00				1" Ice	10.25	9.66	0.237
							2" Ice	11.64	11.59	0.423
							4" Ice	14.54	15.85	0.949
(2) SBNHH-1D65B w/ Mount Pipe	D	From Leg	1.00	0.00	0.0000	67.00	No Ice	8.77	7.24	0.086
			0.00	0.00			1/2" Ice	9.52	8.52	0.157
			3.00				1" Ice	10.25	9.66	0.237
							2" Ice	11.64	11.59	0.423
							4" Ice	14.54	15.85	0.949
(3) ALU 2X60 AWS	A	From Leg	1.00	0.00	0.0000	67.00	No Ice	2.19	1.43	0.044
			0.00	0.00			1/2" Ice	2.40	1.61	0.060
			3.00				1" Ice	2.62	1.80	0.079
							2" Ice	3.07	2.21	0.125
							4" Ice	4.09	3.13	0.259
(3) ALU 2X60 LTE	C	From Leg	1.00	0.00	0.0000	67.00	No Ice	2.57	2.03	0.060
			0.00	0.00			1/2" Ice	2.79	2.24	0.080
			3.00				1" Ice	3.02	2.46	0.104
							2" Ice	3.52	2.92	0.161
							4" Ice	4.61	3.94	0.319
(3) ALU 2X60 PCS	D	From Leg	1.00	0.00	0.0000	67.00	No Ice	2.15	1.57	0.046
			0.00	0.00			1/2" Ice	2.35	1.76	0.063
			3.00				1" Ice	2.57	1.95	0.082
							2" Ice	3.02	2.36	0.130
							4" Ice	4.03	3.29	0.267
(2) DB-T1-6Z-8AB-OZ	C	From Leg	1.00	0.00	0.0000	67.00	No Ice	5.60	2.33	0.044
			0.00	0.00			1/2" Ice	5.92	2.56	0.080
			3.00				1" Ice	6.24	2.79	0.120

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			ft ft ft	°	ft	ft ²	ft ²	K
					2" Ice	6.91	3.28	0.213
					4" Ice	8.37	4.37	0.455

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load K	Ratio Load Allowable	Allowable Ratio	Criteria
T4	27.5	Leg	A325N	0.7500	4	2.279	19.439	0.117	1	Bolt Tension

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1...	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A572-50	29000	11200	.295	.65	.49	50	1.1	58	1.2
2	A36	29000	11200	.295	.65	.49	36	1.5	58	1.2

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Dis:ributed Area(Me...	Surface(P...
1	Dead	None		-1		128	80	16	
2	No Ice Wind 0 deg	None				128	172	48	
3	No Ice Wind 45 deg	None				256	174	64	
4	No Ice Wind 90 deg	None				128	176	48	
5	No Ice Wind 135 deg	None				256	174	64	
6	No Ice Wind 180 deg	None				128	172	48	
7	No Ice Wind 225 deg	None				256	174	64	
8	No Ice Wind 270 deg	None				128	176	48	
9	No Ice Wind 315 deg	None				256	174	64	
10	Ice	None				128	80	277	
11	Temperature Drop	None						260	
12	Ice Wind 0 deg	None				128	178	40	
13	Ice Wind 45 deg	None				256	174	64	
14	Ice Wind 90 deg	None				128	182	48	
15	Ice Wind 135 deg	None				256	174	64	
16	Ice Wind 180 deg	None				128	178	40	
17	Ice Wind 225 deg	None				256	174	64	
18	Ice Wind 270 deg	None				128	182	48	
19	Ice Wind 315 deg	None				256	174	64	
20	Service Wind 0 deg	None				128	172	48	
21	Service Wind 45 deg	None				256	174	64	
22	Service Wind 90 deg	None				128	176	48	
23	Service Wind 135 deg	None				256	174	64	
24	Service Wind 180 deg	None				256	172	48	
25	Service Wind 225 deg	None				256	174	64	
26	Service Wind 270 deg	None				128	176	48	
27	Service Wind 315 deg	None				256	174	64	

Load Combinations

	Description	Solve	PDelta	SRSS	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
1	Dead Only	Yes	Y		1	1	28	1	29	1	0	0	0	0
2	Dead+Wind 0 de...	Yes	Y		1	1	2	1	28	1	29	1	0	0
3	Dead+Wind 45 d...	Yes	Y		1	1	3	1	28	1	29	1	0	0
4	Dead+Wind 90 d...	Yes	Y		1	1	4	1	28	1	29	1	0	0
5	Dead+Wind 135 ...	Yes	Y		1	1	5	1	28	1	29	1	0	0
6	Dead+Wind 180 ...	Yes	Y		1	1	6	1	28	1	29	1	0	0
7	Dead+Wind 225 ...	Yes	Y		1	1	7	1	28	1	29	1	0	0
8	Dead+Wind 270 ...	Yes	Y		1	1	8	1	28	1	29	1	0	0
9	Dead+Wind 315 ...	Yes	Y		1	1	9	1	28	1	29	1	0	0
10	Dead+Ice+Temp	Yes	Y		1	1	10	1	11	1	28	1	29	1
11	Dead+Wind 0 de...	Yes	Y		1	1	12	1	10	1	11	1	28	1
12	Dead+Wind 45 d...	Yes	Y		1	1	13	1	10	1	11	1	28	1
13	Dead+Wind 90 d...	Yes	Y		1	1	14	1	10	1	11	1	28	1
14	Dead+Wind 135 ...	Yes	Y		1	1	15	1	10	1	11	1	28	1
15	Dead+Wind 180 ...	Yes	Y		1	1	16	1	10	1	11	1	28	1
16	Dead+Wind 225 ...	Yes	Y		1	1	17	1	10	1	11	1	28	1
17	Dead+Wind 270 ...	Yes	Y		1	1	18	1	10	1	11	1	28	1
18	Dead+Wind 315 ...	Yes	Y		1	1	19	1	10	1	11	1	28	1
19	Dead+Wind 0 de...	Yes	Y		1	1	20	1	28	1	29	1	0	0

Load Combinations (Continued)

Description	Solve	PDelta	SRSS	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
20 Dead+Wind 45 d...	Yes	Y		1	1	21	1	28	1	29	1	0	0
21 Dead+Wind 90 d...	Yes	Y		1	1	22	1	28	1	29	1	0	0
22 Dead+Wind 135 ...	Yes	Y		1	1	23	1	28	1	29	1	0	0
23 Dead+Wind 180 ...	Yes	Y		1	1	24	1	28	1	29	1	0	0
24 Dead+Wind 225 ...	Yes	Y		1	1	25	1	28	1	29	1	0	0
25 Dead+Wind 270 ...	Yes	Y		1	1	26	1	28	1	29	1	0	0
26 Dead+Wind 315 ...	Yes	Y		1	1	27	1	28	1	29	1	0	0

Envelope Joint Reactions

Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1 N99 max	.207	7	4.758	9	11.218	12	0	1	0	6	0	1
2 min	-11.633	12	-2.518	5	-.031	7	0	1	0	2	0	1
3 N100 max	11.22	16	4.688	9	11.473	12	0	1	0	9	0	1
4 min	-.014	3	-2.387	5	-.055	8	0	1	0	14	0	1
5 N101 max	11.309	18	4.148	8	.036	9	0	1	0	6	0	1
6 min	-.196	5	-1.854	4	-11.219	14	0	1	0	2	0	1
7 N102 max	.039	8	4.106	8	.297	6	0	1	0	6	0	1
8 min	-11.22	13	-1.863	4	-11.433	11	0	1	0	2	0	1
9 N217 max	.873	6	.022	15	.246	15	0	1	0	1	0	1
10 min	-.9	2	.022	9	-.166	2	0	1	0	1	0	1
11 N218 max	.917	2	.022	9	.153	6	0	1	0	1	0	1
12 min	-.941	6	.022	15	-.362	11	0	1	0	1	0	1
13 N223 max	4.8	5	.023	7	1.267	6	0	1	0	1	0	1
14 min	-5.054	9	.019	18	-1.266	2	0	1	0	1	0	1
15 N224 max	4.74	2	.023	9	1.147	6	0	1	0	1	0	1
16 min	-5.003	6	.019	16	-1.162	2	0	1	0	1	0	1
17 N226 max	15.366	6	14.476	3	5.257	2	0	1	0	1	0	1
18 min	-15.053	2	-13.406	7	-5.236	6	0	1	0	1	0	1
19 N225 max	16.417	9	15.829	5	5.398	2	0	1	0	1	0	1
20 min	-16.216	5	-14.807	9	-5.398	5	0	1	0	1	0	1
21 Totals: max	7.642	8	12.381	17	7.644	2						
22 min	-7.642	4	5.679	4	-7.644	6						

Envelope AISC ASD Steel Code Checks

Me...	Shape	Code Check	Lo...	Sh...	Lo...	Fa...	Ft...	Fb...	Fb...	AS...	
1 M28	L1-1/2x1-1/2x1/4	.909	0	2.001	3...	z	9.8...	28...	- C...	H1-1	
2 M20	L1-1/2x1-1/2x1/4	.897	0	6.001	3...	z	9.8...	28...	- C...	H1-1	
3 M19	L1-1/2x1-1/2x1/4	.883	0	8.001	0	z	9.8...	28...	- C...	H1-1	
4 M27	L1-1/2x1-1/2x1/4	.816	0	4.001	3...	z	9.8...	28...	- C...	H1-1	
5 M30	L1-1/2x1-1/2x1/4	.804	0	6.001	3...	z	9.8...	28...	- C...	H1-1	
6 M314	L1-1/2x1-1/2x1/4	.803	0	....002	0	z	10...	28...	- C...	H1-1
7 M29	L1-1/2x1-1/2x1/4	.763	0	8.001	3...	z	9.8...	28...	- C...	H1-1	
8 M12	L1-1/2x1-1/2x1/4	.743	0	2.001	3...	z	9.8...	28...	- C...	H1-1	
9 M315	L1-1/2x1-1/2x1/4	.741	0	....003	3...	z	10...	28...	- C...	H1-1
10 M305	L2.5x1.5x4	.733	0	5.013	1...	z	6	22...	28...	- C...	H1-1
11 M11	L1-1/2x1-1/2x1/4	.715	0	3.001	0	z	9.8...	28...	- C...	H1-1	
12 M95	L1-1/2x1-1/2x1/4	.679	0	2.001	3...	z	9.8...	28...	- C...	H1-1	
13 M104	L1-1/2x1-1/2x1/4	.669	0	6.001	0	z	9.8...	28...	- C...	H1-1	
14 M304	L2.5x1.5x4	.659	3...	3.014	0	z	22...	28...	- C...	H1-1	
15 M103	L1-1/2x1-1/2x1/4	.645	0	8.001	0	z	9.8...	28...	- C...	H1-1	
16 M113	L1-1/2x1-1/2x1/4	.642	0	2.001	3...	z	9.8...	28...	- C...	H1-1	
17 M94	L1-1/2x1-1/2x1/4	.639	0	4.001	3...	z	9.8...	28...	- C...	H1-1	
18 M291	L2.5x1.5x4	.636	2...	9.001	4.5	y	7.0...	39...	- C...	H1-1	
19 M112	L1-1/2x1-1/2x1/4	.626	0	4.001	3...	z	9.8...	28...	- C...	H1-1	
20 M22	L1-1/2x1-1/2x1/4	.624	0	2.001	3...	z	9.8...	28...	- C...	H1-1	

Envelope AISC ASD Steel Code Checks (Continued)

Me...	Shape	Code Check	Lo.....	Sh...	Lo.....	Fa...	Ft[...	Fb...	Fb.....	AS...
21	M122 L1-1/2x1-1/2x1/4	.622	0	6.001	0 z	9.8..	28...	- C...		H1-1
22	M306 L1-1/2x1-1/2x1/4	.617	4...	5.009	2...z 3	19...	28...	- C...		H1-1
23	M292 L2.5x1.5x4	.614	2...	7.002	4.5 y	7.0..	39...	- C...		H1-1
24	M121 L1-1/2x1-1/2x1/4	.602	0	8.001	0 z	9.8..	28...	- C...		H1-1
25	M131 L1-1/2x1-1/2x1/4	.597	0	2.001	0 z	9.8..	28...	- C...		H1-1
26	M310 L1-1/2x1-1/2x1/4	.595	0	...001	0 z 2	10...	28...	- C...		H1-1
27	M130 L1-1/2x1-1/2x1/4	.590	0	4.001	0 z	9.8..	28...	- C...		H1-1
28	M21 L1-1/2x1-1/2x1/4	.589	0	4.001	0 z	9.8..	28...	- C...		H1-1
29	M307 L1-1/2x1-1/2x1/4	.587	0	3.009	2...y 5	19...	28...	- C...		H1-1
30	M68 L1-1/2x1-1/2x1/4	.579	0	8.001	3...z	9.8..	28...	- C...		H1-1
31	M140 L1-1/2x1-1/2x1/4	.576	0	6.001	3...z	9.8..	28...	- C...		H1-1
32	M270 L2x2x4	.576	0	...001	3...z	16...	28...	- C...		H1-1
33	M311 L1-1/2x1-1/2x1/4	.574	0	...001	0 z 9	10...	28...	- C...		H1-1
34	M85 L2-1/2x2-1/2x1/4	.568	0	9.010	2.5 y 9	30...	39...	- C...		H1-1
35	M165 L2-1/2x2-1/2x1/4	.568	25..	9.009	25...y 9	30...	39...	- C...		H1-1
36	M139 L1-1/2x1-1/2x1/4	.566	0	8.001	3...z	9.8..	28...	- C...		H1-1
37	M84 L2-1/2x2-1/2x1/4	.558	0	3.011	0 y 3	30...	39...	- C...		H1-1
38	M69 L1-1/2x1-1/2x1/4	.557	0	6.001	0 z	9.8..	28...	- C...		H1-1
39	M148 L1-1/2x1-1/2x1/4	.554	0	4.001	0 z	9.8..	28...	- C...		H1-1
40	M36 L1-1/2x1-1/2x1/4	.554	0	6.001	0 z	9.8..	28...	- C...		H1-1
41	M162 L2-1/2x2-1/2x1/4	.553	25..	7.010	27...y 7	30...	39...	- C...		H1-1
42	M312 L1-1/2x1-1/2x1/4	.551	0	...001	0 z 9	10...	28...	- C...		H1-1
43	M149 L1-1/2x1-1/2x1/4	.551	0	2.001	0 z	9.8..	28...	- C...		H1-1
44	M82 L2-1/2x2-1/2x1/4	.549	0	7.010	0 y 7	30...	39...	- C...		H1-1
45	M83 L2-1/2x2-1/2x1/4	.548	0	5.018	0 z 7	36...	39...	- C...		H1-1
46	M26... L1-1/2x1-1/2x1/4	.546	0	...004	3...z 5	10...	28...	- C...		H1-1
47	M26... L1-1/2x1-1/2x1/4	.544	0	...004	3...z 6	10...	28...	- C...		H1-1
48	M38 L1-1/2x1-1/2x1/4	.539	0	2.001	3...z	9.8..	28...	- C...		H1-1
49	M157 L1-1/2x1-1/2x1/4	.537	0	8.001	0 z	9.8..	28...	- C...		H1-1
50	M37 L1-1/2x1-1/2x1/4	.535	0	4.001	3...z	9.8..	28...	- C...		H1-1
51	M158 L1-1/2x1-1/2x1/4	.533	0	6.001	0 z	9.8..	28...	- C...		H1-1
52	M253 L1-1/2x1-1/2x1/4	.533	0	2.001	3...z	9.8..	28...	- C...		H1-1
53	M262 L1-1/2x1-1/2x1/4	.530	0	6.001	3...z	9.8..	28...	- C...		H1-1
54	M313 L1-1/2x1-1/2x1/4	.523	0	...001	0 z	10...	28...	- C...		H1-1
55	M96 L1-1/2x1-1/2x1/4	.514	0	8.001	0 z	9.8..	28...	- C...		H1-1
56	M254 L1-1/2x1-1/2x1/4	.511	0	...001	3...z	9.8..	28...	- C...		H1-1
57	M105 L1-1/2x1-1/2x1/4	.506	0	4.001	3...z	9.8..	28...	- C...		H1-1
58	M59 L1-1/2x1-1/2x1/4	.505	0	4.001	3...z	9.8..	28...	- C...		H1-1
59	M244 L1-1/2x1-1/2x1/4	.502	0	6.001	3...z	9.8..	28...	- C...		H1-1
60	M97 L1-1/2x1-1/2x1/4	.499	0	6.001	3...z	9.8..	28...	- C...		H1-1
61	M106 L1-1/2x1-1/2x1/4	.497	0	2.001	0 z	9.8..	28...	- C...		H1-1
62	M60 L1-1/2x1-1/2x1/4	.488	0	2.001	3...z	9.8..	28...	- C...		H1-1
63	M235 L1-1/2x1-1/2x1/4	.487	0	2.001	3...z	9.8..	28...	- C...		H1-1
64	M309 L1-1/2x1-1/2x1/4	.485	0	...002	3...z 5	10...	28...	- C...		H1-1
65	M236 L1-1/2x1-1/2x1/4	.483	0	...001	3...z	9.8..	28...	- C...		H1-1
66	M114 L1-1/2x1-1/2x1/4	.481	0	8.001	0 z	9.8..	28...	- C...		H1-1
67	M115 L1-1/2x1-1/2x1/4	.473	0	6.001	0 z	9.8..	28...	- C...		H1-1
68	M261 L1-1/2x1-1/2x1/4	.471	0	8.001	3...z	9.8..	28...	- C...		H1-1
69	M35 L1-1/2x1-1/2x1/4	.470	0	8.001	3...z	9.8..	28...	- C...		H1-1
70	M47 L2-1/2x2-1/2x1/4	.467	5	3.018	5 z 5	30...	39...	- C...		H1-1
71	M2 L2-1/2x2-1/2x1/4	.462	0	9.112	11...z 8	30...	39...	- C...		H1-1
72	M3 L2-1/2x2-1/2x1/4	.461	0	7.115	11...z 6	30...	39...	- C...		H1-1
73	M124 L1-1/2x1-1/2x1/4	.457	0	2.001	3...z	9.8..	28...	- C...		H1-1
74	M266 L1-1/2x1-1/2x1/4	.453	0	...001	2.4 z	17...	28...	- C...		H2-1
75	M123 L1-1/2x1-1/2x1/4	.452	0	4.001	3...z	9.8..	28...	- C...		H1-1
76	M4 L2-1/2x2-1/2x1/4	.452	0	5.119	2...z 4	30...	39...	- C...		H1-1
77	M264 L1-1/2x1-1/2x1/4	.444	0	2.001	3...z	9.8..	28...	- C...		H1-1

Envelope AISC ASD Steel Code Checks (Continued)

Me...	Shape	Code Check	Lo.....	Sh...	Lo.....	Fa...	F1J...	Fb...	Fb.....	AS...
78	M133 L1-1/2x1-1/2x1/4	.437	0	6.001	0 z	9.8..	28...	- C...		H1-1
79	M243 L1-1/2x1-1/2x1/4	.437	0	8.001	3.... z	9.8..	28...	- C...		H1-1
80	M49 L2-1/2x2-1/2x1/4	.435	5	7.011	7.5 z	9.8..	39...	- C...		H1-1
81	M132 L1-1/2x1-1/2x1/4	.435	0	8.001	3.... z	9.8..	28...	- C...		H1-1
82	M255 L1-1/2x1-1/2x1/4	.428	0	6.001	3.... z	9.8..	28...	- C...		H1-1
83	M48 L2-1/2x2-1/2x1/4	.425	5	9.170	6.... y	36...	39...	- C...		H1-1
84	M308 L1-1/2x1-1/2x1/4	.421	0	....002	0 z	10...	28...	- C...		H1-1
85	M142 L1-1/2x1-1/2x1/4	.420	0	2.001	3.... z	9.8..	28...	- C...		H1-1
86	M263 L1-1/2x1-1/2x1/4	.417	0	4.001	0 z	9.8..	28...	- C...		H1-1
87	M246 L1-1/2x1-1/2x1/4	.411	0	2.001	3.... z	9.8..	28...	- C...		H1-1
88	M50 L2-1/2x2-1/2x1/4	.406	5	5.016	7.5 z	9.8..	39...	- C...		H1-1
89	M164 L2-1/2x2-1/2x1/4	.406	25.	3.012	27... y	30...	39...	- C...		H1-1
90	M141 L1-1/2x1-1/2x1/4	.405	0	4.001	0 z	9.8..	28...	- C...		H1-1
91	M151 L1-1/2x1-1/2x1/4	.400	0	6.001	0 z	9.8..	28...	- C...		H1-1
92	M272 L2x2x4	.395	3....	....001	0 z	16...	28...	- C...		H2-1
93	M237 L1-1/2x1-1/2x1/4	.392	0	6.001	3.... z	9.8..	28...	- C...		H1-1
94	M150 L1-1/2x1-1/2x1/4	.387	0	8.001	0 z	9.8..	28...	- C...		H1-1
95	M160 L1-1/2x1-1/2x1/4	.382	0	2.001	0 z	9.8..	28...	- C...		H1-1
96	M80 L1-1/2x1-1/2x1/4	.376	0	6.001	0 z	9.8..	28...	- C...		H1-1
97	M252 L1-1/2x1-1/2x1/4	.372	0	4.001	3.... z	9.8..	28...	- C...		H1-1
98	M245 L1-1/2x1-1/2x1/4	.369	0	4.001	3.... z	9.8..	28...	- C...		H1-1
99	M62 L1-1/2x1-1/2x1/4	.365	0	6.001	0 z	9.8..	28...	- C...		H1-1
100	M1 L2-1/2x2-1/2x1/4	.363	0	3.132	2.... z	30...	39...	- C...		H1-1
101	M159 L1-1/2x1-1/2x1/4	.357	0	4.001	3.... z	9.8..	28...	- C...		H1-1
102	M61 L1-1/2x1-1/2x1/4	.339	0	8.001	0 z	9.8..	28...	- C...		H1-1
103	M234 L1-1/2x1-1/2x1/4	.335	0	4.001	3.... z	9.8..	28...	- C...		H1-1
104	M71 L1-1/2x1-1/2x1/4	.331	0	2.001	0 z	9.8..	28...	- C...		H1-1
105	M79 L1-1/2x1-1/2x1/4	.330	0	8.001	3.... z	9.8..	28...	- C...		H1-1
106	M176 L2-1/2x2-1/2x1/4	.327	0	....001	2.4 z	23...	28...	- C...		H2-1
107	M177 L2-1/2x2-1/2x1/4	.327	0	....001	2.4 z	23...	28...	- C...		H2-1
108	M178 L2-1/2x2-1/2x1/4	.327	0	....001	2.4 z	23...	28...	- C...		H2-1
109	M179 L2-1/2x2-1/2x1/4	.327	0	....001	2.4 z	23...	28...	- C...		H2-1
110	M168 L1-1/2x1-1/2x1/4	.324	0	4.001	0 z	24...	28...	- C...		H1-1
111	M70 L1-1/2x1-1/2x1/4	.296	0	4.001	3.... z	9.8..	28...	- C...		H1-1
112	M163 L2-1/2x2-1/2x1/4	.285	25.	5.028	27... z	36...	39...	- C...		H1-1
113	M295 L1-1/2x1-1/2x1/4	.270	0	6.002	3.... y	9.8..	39...	- C...		H1-1
114	M167 L1-1/2x1-1/2x1/4	.256	0	....001	0 z	24...	28...	- C...		H2-1
115	M293 L1-1/2x1-1/2x1/4	.249	0	2.002	0 y	9.8..	39...	- C...		H1-1
116	M299 L2.5x1.5x4	.222	0	....005	2.5 y	21...	39...	- C...		H2-1
117	M40 L1-1/2x1-1/2x1/4	.222	0	2.001	2.4 z	17...	28...	- C...		H1-1
118	M42 L1-1/2x1-1/2x1/4	.217	0	6.001	2.4 z	17...	28...	- C...		H1-1
119	M39 L1-1/2x1-1/2x1/4	.215	0	4.001	2.4 z	17...	28...	- C...		H1-1
120	M74 L1-1/2x1-1/2x1/4	.215	0	3.001	2.4 z	17...	28...	- C...		H1-1
121	M228 L1-1/2x1-1/2x1/4	.207	0	2.001	3.... z	9.8..	28...	- C...		H1-1
122	M51 L1-1/2x1-1/2x1/4	.206	0	8.001	0 z	24...	28...	- C...		H1-1
123	M296 L1-1/2x1-1/2x1/4	.198	0	2.001	3.... y	12...	39...	- C...		H1-1
124	M41 L1-1/2x1-1/2x1/4	.194	0	8.001	2.4 z	17...	28...	- C...		H1-1
125	M278 L1-1/2x1-1/2x1/4	.193	0	6.008	1.2 z	8.24...	28...	- C...		H1-1
126	M166 L1-1/2x1-1/2x1/4	.193	0	....001	2.4 z	24...	28...	- C...		H2-1
127	M169 L1-1/2x1-1/2x1/4	.186	1.2	....001	2.4 z	24...	28...	- C...		H2-1
128	M219 L1-1/2x1-1/2x1/4	.186	0	6.001	3.... z	9.8..	28...	- C...		H1-1
129	M294 L1-1/2x1-1/2x1/4	.181	0	6.001	3.... y	12...	39...	- C...		H1-1
130	M27... L1-1/2x1-1/2x1/4	.177	0	8.010	0 z	24...	28...	- C...		H1-1
131	M210 L1-1/2x1-1/2x1/4	.172	0	2.001	3.... z	9.8..	28...	- C...		H1-1
132	M298 L2.5x1.5x4	.167	0	....004	2.5 y	6.21...	39...	- C...		H2-1
133	M231 L1-1/2x1-1/2x1/4	.163	0	....001	2.4 z	17...	28...	- C...		H2-1
134	M273 L2x2x4	.161	0	7.001	3.... z	16...	28...	- C...		H1-1

Envelope AISC ASD Steel Code Checks (Continued)

Me...	Shape	Code Check	Lo.....	Sh...	Lo.....	Fa...	Ft [..	Fb ...	Fb	AS...
135	M26... L1-1/2x1-1/2x1/4	.157	0	8.000	1.2 z 1	24...	28...	- C...		H1-1
136	M27... L1-1/2x1-1/2x1/4	.157	0	6.007	0 z 8	24...	28...	- C...		H1-1
137	M282 L1-1/2x1-1/2x1/4	.156	0	2.005	0 z 8	24...	28...	- C...		H1-1
138	M195 L1-1/2x1-1/2x1/4	.152	0	....001	2.4 z ...	17...	28...	- C...		H2-1
139	M201 L1-1/2x1-1/2x1/4	.151	0	6.001	3.... z ...	9.8...	28...	- C...		H1-1
140	M233 L1-1/2x1-1/2x1/4	.149	0	....001	2.4 z ...	17...	28...	- C...		H2-1
141	M194 L1-1/2x1-1/2x1/4	.145	0	....001	2.4 z ...	17...	28...	- C...		H2-1
142	M77 L1-1/2x1-1/2x1/4	.144	0	5.001	0 z ...	9.8...	28...	- C...		H1-1
143	M232 L1-1/2x1-1/2x1/4	.143	0	....001	2.4 z ...	17...	28...	- C...		H2-1
144	M277 L1-1/2x1-1/2x1/4	.137	0	4.011	1.2 z 3	24...	28...	- C...		H1-1
145	M32 L1-1/2x1-1/2x1/4	.136	0	....001	2.4 z ...	17...	28...	- C...		H2-1
146	M33 L1-1/2x1-1/2x1/4	.136	0	....001	2.4 z ...	17...	28...	- C...		H2-1
147	M31 L1-1/2x1-1/2x1/4	.136	0	....001	2.4 z ...	17...	28...	- C...		H2-1
148	M197 L1-1/2x1-1/2x1/4	.136	0	....001	2.4 z ...	17...	28...	- C...		H2-1
149	M34 L1-1/2x1-1/2x1/4	.135	0	....001	2.4 z ...	17...	28...	- C...		H2-1
150	M27... L1-1/2x1-1/2x1/4	.131	0	6.015	0 z 9	24...	28...	- C...		H1-1
151	M26... L1-1/2x1-1/2x1/4	.129	0	8.019	0 z 7	24...	28...	- C...		H1-1
152	M196 L1-1/2x1-1/2x1/4	.129	0	....001	2.4 z ...	17...	28...	- C...		H2-1
153	M226 L1-1/2x1-1/2x1/4	.129	0	6.001	3.... z ...	9.8...	28...	- C...		H1-1
154	M268 L1-1/2x1-1/2x1/4	.127	0	....001	2.4 z ...	17...	28...	- C...		H2-1
155	M78 L1-1/2x1-1/2x1/4	.126	0	8.001	0 z ...	9.8...	28...	- C...		H1-1
156	M286 L2.5x1.5x4	.122	2....	6.001	4.5 y 1	7.0...	39...	- C...		H1-1
157	M281 L1-1/2x1-1/2x1/4	.120	0	2.016	0 z 5	24...	28...	- C...		H1-1
158	M26... L1-1/2x1-1/2x1/4	.120	0	5.015	1.2 z 8	24...	28...	- C...		H1-1
159	M230 L1-1/2x1-1/2x1/4	.115	0	8.001	2.4 z ...	17...	28...	- C...		H1-1
160	M285 L2.5x1.5x4	.115	2....	2.001	4.5 y 1	7.0...	39...	- C...		H1-1
161	M45 L1-1/2x1-1/2x1/4	.112	0	9.001	3.... z ...	9.8...	28...	- C...		H1-1
162	M302 L1-1/2x1-1/2x1/4	.110	0	9.002	0 y 6	27...	39...	- C...		H1-1
163	M217 L1-1/2x1-1/2x1/4	.108	0	2.001	3.... z ...	9.8...	28...	- C...		H1-1
164	M276 L1-1/2x1-1/2x1/4	.105	0	4.019	0 z 7	24...	28...	- C...		H1-1
165	M269 L1-1/2x1-1/2x1/4	.104	0	....001	2.4 z ...	17...	28...	- C...		H2-1
166	M54 L1-1/2x1-1/2x1/4	.096	1.2	2.001	2.4 z ...	24...	28...	- C...		H1-1
167	M279 L1-1/2x1-1/2x1/4	.096	0	6.016	0 z 5	24...	28...	- C...		H1-1
168	M26... L1-1/2x1-1/2x1/4	.092	0	9.004	0 z 3	24...	28...	- C...		H1-1
169	M192 L1-1/2x1-1/2x1/4	.090	0	2.001	3.... z ...	9.8...	28...	- C...		H1-1
170	M53 L1-1/2x1-1/2x1/4	.086	0	4.001	2.4 z ...	24...	28...	- C...		H1-1
171	M27... L1-1/2x1-1/2x1/4	.086	0	8.016	0 z 7	24...	28...	- C...		H1-1
172	M208 L1-1/2x1-1/2x1/4	.086	0	6.001	3.... z ...	9.8...	28...	- C...		H1-1
173	M225 L1-1/2x1-1/2x1/4	.082	0	9.001	0 z ...	9.8...	28...	- C...		H1-1
174	M300 L1-1/2x1-1/2x1/4	.082	0	....003	3.... y 2	27...	39...	- C...		H2-1
175	M287 L1-1/2x1-1/2x1/4	.079	0	....001	0 y ...	9.8...	39...	- C...		H1-1
176	M189 L1-1/2x1-1/2x1/4	.073	0	....001	3.... z ...	9.8...	28...	- C...		H1-1
177	M199 L1-1/2x1-1/2x1/4	.072	0	2.001	3.... z ...	9.8...	28...	- C...		H1-1
178	M271 L2x2x4	.072	3....	....001	3.... z ...	16...	28...	- C...		H2-1
179	M43 L1-1/2x1-1/2x1/4	.070	0	9.001	0 z ...	9.8...	28...	- C...		H1-1
180	M183 L1-1/2x1-1/2x1/4	.069	0	6.001	3.... z ...	9.8...	28...	- C...		H1-1
181	M26... L1-1/2x1-1/2x1/4	.066	0	8.021	1.2 z 7	24...	28...	- C...		H1-1
182	M218 L1-1/2x1-1/2x1/4	.064	0	7.001	3.... z ...	9.8...	28...	- C...		H1-1
183	M227 L1-1/2x1-1/2x1/4	.062	0	3.001	0 z ...	9.8...	28...	- C...		H1-1
184	M207 L1-1/2x1-1/2x1/4	.061	0	9.001	0 z ...	9.8...	28...	- C...		H1-1
185	M27... L1-1/2x1-1/2x1/4	.060	0	6.016	1.2 z 9	24...	28...	- C...		H1-1
186	M46 L1-1/2x1-1/2x1/4	.056	0	5.001	0 z ...	9.8...	28...	- C...		H1-1
187	M289 L1-1/2x1-1/2x1/4	.053	0	....001	3.... y ...	9.8...	39...	- C...		H1-1
188	M267 L1-1/2x1-1/2x1/4	.053	0	2.001	2.4 z ...	17...	28...	- C...		H1-1
189	M200 L1-1/2x1-1/2x1/4	.053	0	6.001	3.... z ...	9.8...	28...	- C...		H1-1
190	M209 L1-1/2x1-1/2x1/4	.050	0	9.001	3.... z ...	9.8...	28...	- C...		H1-1
191	M52 L1-1/2x1-1/2x1/4	.049	0	5.001	0 z ...	24...	28...	- C...		H1-1

Envelope AISC ASD Steel Code Checks (Continued)

Me...	Shape	Code Check	Lo.....	Sh... Lo.....	Fa... F1J...	Fb... Fb	AS...
192	M190 L1-1/2x1-1/2x1/4	.047	0	....001 3.... z	9.8...28...	- C...	H1-1
193	M16 L1-1/2x1-1/2x1/4	.047	0	6.001 2.4 z	17...28...	- C...	H1-1
194	M26 L1-1/2x1-1/2x1/4	.047	0	2.001 2.4 z	17...28...	- C...	H1-1
195	M216 L1-1/2x1-1/2x1/4	.046	0	5.001 0 z	9.8...28...	- C...	H1-1
196	M180 L1-1/2x1-1/2x1/4	.044	0	7.001 3.... z	9.8...28...	- C...	H1-1
197	M198 L1-1/2x1-1/2x1/4	.042	0	7.001 3.... z	9.8...28...	- C...	H1-1
198	M25 L1-1/2x1-1/2x1/4	.041	0	4.001 2.4 z	17...28...	- C...	H1-1
199	M24 L1-1/2x1-1/2x1/4	.039	0	3.001 2.4 z	17...28...	- C...	H1-1
200	M23 L1-1/2x1-1/2x1/4	.039	0	4.001 2.4 z	17...28...	- C...	H1-1
201	M64 L1-1/2x1-1/2x1/4	.038	0	4.001 2.4 z	17...28...	- C...	H1-1
202	M182 L1-1/2x1-1/2x1/4	.037	0	5.001 3.... z	9.8...28...	- C...	H1-1
203	M13 L1-1/2x1-1/2x1/4	.036	0	7.001 3.... z	9.8...28...	- C...	H1-1
204	M26... L1-1/2x1-1/2x1/4	.032	0	9.010 1.2 z 8	24...28...	- C...	H1-1
205	M191 L1-1/2x1-1/2x1/4	.032	0	9.001 3.... z	9.8...28...	- C...	H1-1
206	M6 L1-1/2x1-1/2x1/4	.032	0	5.014 3.... z 8	10...28...	- C...	H1-1
207	M280 L1-1/2x1-1/2x1/4	.028	0	2.019 1.2 z 9	24...28...	- C...	H1-1
208	M290 L1-1/2x1-1/2x1/4	.026	0	2.001 3.... y 1	12...39...	- C...	H1-1
209	M275 L1-1/2x1-1/2x1/4	.026	0	4.020 0 z 7	24...28...	- C...	H1-1
210	M26... L1-1/2x1-1/2x1/4	.026	0	6.018 1.2 z 7	24...28...	- C...	H1-1
211	M44 L1-1/2x1-1/2x1/4	.025	0	9.001 3.... z	9.8...28...	- C...	H1-1
212	M288 L1-1/2x1-1/2x1/4	.025	0	6.001 3.... y 1	12...39...	- C...	H1-1
213	M181 L1-1/2x1-1/2x1/4	.022	3.....	....001 3.... z	9.8...28...	- C...	H2-1
214	M7 L2-1/2x2-1/2x1/4	.021	0	4.001 2.4 z	23...28...	- C...	H1-1
215	M14 L1-1/2x1-1/2x1/4	.020	0	5.001 3.... z	9.8...28...	- C...	H1-1
216	M101 L1-1/2x1-1/2x1/4	.018	0	5.001 2.4 z	17...28...	- C...	H1-1
217	M102 L1-1/2x1-1/2x1/4	.018	0	3.001 2.4 z	17...28...	- C...	H1-1
218	M100 L1-1/2x1-1/2x1/4	.017	0	7.001 2.4 z	17...28...	- C...	H1-1
219	M5 L1-1/2x1-1/2x1/4	.017	0	9.015 3.... z 9	10...28...	- C...	H1-1
220	M257 L1-1/2x1-1/2x1/4	.016	0	3.001 2.4 z	17...28...	- C...	H1-1
221	M8 L2-1/2x2-1/2x1/4	.016	0	2.001 2.4 z	23...28...	- C...	H1-1
222	M258 L1-1/2x1-1/2x1/4	.016	0	....001 2.4 z	17...28...	- C...	H1-1
223	M18 L1-1/2x1-1/2x1/4	.016	0	9.001 2.4 z	17...28...	- C...	H1-1
224	M99 L1-1/2x1-1/2x1/4	.016	0	9.001 2.4 z	17...28...	- C...	H1-1
225	M109 L1-1/2x1-1/2x1/4	.016	0	9.001 2.4 z	17...28...	- C...	H1-1
226	M111 L1-1/2x1-1/2x1/4	.015	0	5.001 2.4 z	17...28...	- C...	H1-1
227	M110 L1-1/2x1-1/2x1/4	.015	0	7.001 2.4 z	17...28...	- C...	H1-1
228	M260 L1-1/2x1-1/2x1/4	.015	0	5.001 2.4 z	17...28...	- C...	H1-1
229	M108 L1-1/2x1-1/2x1/4	.014	0	3.001 2.4 z	17...28...	- C...	H1-1
230	M250 L1-1/2x1-1/2x1/4	.014	0	5.001 2.4 z	17...28...	- C...	H1-1
231	M10 L2-1/2x2-1/2x1/4	.014	0	6.001 2.4 z	23...28...	- C...	H1-1
232	M119 L1-1/2x1-1/2x1/4	.012	0	5.001 2.4 z	17...28...	- C...	H1-1
233	M251 L1-1/2x1-1/2x1/4	.012	0	3.001 2.4 z	17...28...	- C...	H1-1
234	M117 L1-1/2x1-1/2x1/4	.011	0	9.001 2.4 z	17...28...	- C...	H1-1
235	M259 L1-1/2x1-1/2x1/4	.011	0	7.001 2.4 z	17...28...	- C...	H1-1
236	M73 L1-1/2x1-1/2x1/4	.011	0	6.001 2.4 z	17...28...	- C...	H1-1
237	M15 L1-1/2x1-1/2x1/4	.011	0	6.001 2.4 z	17...28...	- C...	H1-1
238	M248 L1-1/2x1-1/2x1/4	.011	0	....001 2.4 z	17...28...	- C...	H1-1
239	M17 L1-1/2x1-1/2x1/4	.010	0	2.001 2.4 z	17...28...	- C...	H1-1
240	M239 L1-1/2x1-1/2x1/4	.010	0	3.001 2.4 z	17...28...	- C...	H1-1
241	M120 L1-1/2x1-1/2x1/4	.010	0	3.001 2.4 z	17...28...	- C...	H1-1
242	M67 L1-1/2x1-1/2x1/4	.010	0	9.001 2.4 z	17...28...	- C...	H1-1
243	M76 L1-1/2x1-1/2x1/4	.010	0	8.001 2.4 z	17...28...	- C...	H1-1
244	M118 L1-1/2x1-1/2x1/4	.010	0	7.001 2.4 z	17...28...	- C...	H1-1
245	M75 L1-1/2x1-1/2x1/4	.010	0	2.001 2.4 z	17...28...	- C...	H1-1
246	M65 L1-1/2x1-1/2x1/4	.010	0	5.001 2.4 z	17...28...	- C...	H1-1
247	M242 L1-1/2x1-1/2x1/4	.010	0	5.001 2.4 z	17...28...	- C...	H1-1
248	M66 L1-1/2x1-1/2x1/4	.010	0	3.001 2.4 z	17...28...	- C...	H1-1

Envelope AISC ASD Steel Code Checks (Continued)

Me...	Shape	Code Check	Lo.....	Sh...Lo.....	Fa...Ft [...	Fb...Fb	AS...
249	M9 L2-1/2x2-1/2x1/4	.010	0	8.001 0 z	23...28...	- C...	H1-1
250	M87 L1-1/2x1-1/2x1/4	.009	1.2	7.001 0 z	24...28...	- C...	H2-1
251	M249 L1-1/2x1-1/2x1/4	.009	0	...001 2.4 z	17...28...	- C...	H1-1
252	M127 L1-1/2x1-1/2x1/4	.008	0	9.001 2.4 z	17...28...	- C...	H1-1
253	M221 L1-1/2x1-1/2x1/4	.008	0	4.001 2.4 z	17...28...	- C...	H1-1
254	M214 L1-1/2x1-1/2x1/4	.007	0	4.001 2.4 z	17...28...	- C...	H1-1
255	M129 L1-1/2x1-1/2x1/4	.007	0	5.001 2.4 z	17...28...	- C...	H1-1
256	M222 L1-1/2x1-1/2x1/4	.007	0	3.001 2.4 z	17...28...	- C...	H1-1
257	M240 L1-1/2x1-1/2x1/4	.007	0	...001 2.4 z	17...28...	- C...	H1-1
258	M203 L1-1/2x1-1/2x1/4	.007	0	4.001 2.4 z	17...28...	- C...	H1-1
259	M128 L1-1/2x1-1/2x1/4	.006	0	7.001 2.4 z	17...28...	- C...	H1-1
260	M241 L1-1/2x1-1/2x1/4	.006	0	...001 2.4 z	17...28...	- C...	H1-1
261	M213 L1-1/2x1-1/2x1/4	.006	0	5.001 2.4 z	17...28...	- C...	H1-1
262	M126 L1-1/2x1-1/2x1/4	.006	0	3.001 2.4 z	17...28...	- C...	H1-1
263	M224 L1-1/2x1-1/2x1/4	.006	0	5.001 2.4 z	17...28...	- C...	H1-1
264	M185 L1-1/2x1-1/2x1/4	.005	0	4.001 2.4 z	17...28...	- C...	H1-1
265	M206 L1-1/2x1-1/2x1/4	.005	0	5.001 2.4 z	17...28...	- C...	H1-1
266	M215 L1-1/2x1-1/2x1/4	.005	0	7.001 2.4 z	17...28...	- C...	H2-1
267	M88 L1-1/2x1-1/2x1/4	.005	0	5.001 2.4 z	24...28...	- C...	H2-1
268	M86 L1-1/2x1-1/2x1/4	.005	0	2.001 2.4 z	24...28...	- C...	H2-1
269	M137 L1-1/2x1-1/2x1/4	.005	0	5.001 2.4 z	17...28...	- C...	H1-1
270	M204 L1-1/2x1-1/2x1/4	.005	0	7.001 2.4 z	17...28...	- C...	H2-1
271	M89 L1-1/2x1-1/2x1/4	.005	1.2	4.001 2.4 z	24...28...	- C...	H2-1
272	M155 L1-1/2x1-1/2x1/4	.004	0	3.001 2.4 z	17...28...	- C...	H1-1
273	M223 L1-1/2x1-1/2x1/4	.004	0	...001 2.4 z	17...28...	- C...	H1-1
274	M186 L1-1/2x1-1/2x1/4	.004	0	...001 2.4 z	17...28...	- C...	H1-1
275	M153 L1-1/2x1-1/2x1/4	.004	0	2.001 2.4 z	17...28...	- C...	H2-1
276	M188 L1-1/2x1-1/2x1/4	.004	0	...001 2.4 z	17...28...	- C...	H1-1
277	M154 L1-1/2x1-1/2x1/4	.004	0	9.001 2.4 z	17...28...	- C...	H2-1
278	M135 L1-1/2x1-1/2x1/4	.004	0	4.001 2.4 z	17...28...	- C...	H2-1
279	M146 L1-1/2x1-1/2x1/4	.004	0	5.001 2.4 z	17...28...	- C...	H2-1
280	M136 L1-1/2x1-1/2x1/4	.004	0	2.001 2.4 z	17...28...	- C...	H2-1
281	M138 L1-1/2x1-1/2x1/4	.004	0	3.001 2.4 z	17...28...	- C...	H1-1
282	M145 L1-1/2x1-1/2x1/4	.003	0	...001 2.4 z	17...28...	- C...	H2-1
283	M212 L1-1/2x1-1/2x1/4	.003	0	8.001 2.4 z	17...28...	- C...	H2-1
284	M156 L1-1/2x1-1/2x1/4	.003	0	5.001 2.4 z	17...28...	- C...	H2-1
285	M147 L1-1/2x1-1/2x1/4	.003	0	3.001 2.4 z	17...28...	- C...	H2-1
286	M187 L1-1/2x1-1/2x1/4	.003	0	...001 2.4 z	17...28...	- C...	H1-1
287	M205 L1-1/2x1-1/2x1/4	.003	0	...001 2.4 z	17...28...	- C...	H1-1
288	M144 L1-1/2x1-1/2x1/4	.003	0	9.001 2.4 z	17...28...	- C...	H2-1
289	M31... L2x2x4	.002	0	6.010 1.2 y	25...28...	- C...	H1-1
290	M31... L2x2x4	.002	0	2.009 1.2 y	25...28...	- C...	H1-1
291	M63 L1-1/2x1-1/2x1/4	.000	0	1.025 0 z	18...21.6	- C...	H1-1
292	M72 L1-1/2x1-1/2x1/4	.000	0	1.016 0 z	18...21.6	- C...	H1-1
293	M81 L1-1/2x1-1/2x1/4	.000	0	1.013 0 z	18...21.6	- C...	H1-1
294	M98 L1-1/2x1-1/2x1/4	.000	0	1.017 0 z	18...21.6	- C...	H1-1
295	M107 L1-1/2x1-1/2x1/4	.000	0	1.020 0 z	18...21.6	- C...	H1-1
296	M116 L1-1/2x1-1/2x1/4	.000	0	1.024 0 z	18...21.6	- C...	H1-1
297	M125 L1-1/2x1-1/2x1/4	.000	0	1.026 0 z	18...21.6	- C...	H1-1
298	M134 L1-1/2x1-1/2x1/4	.000	0	1.028 0 z	18...21.6	- C...	H1-1
299	M143 L1-1/2x1-1/2x1/4	.000	0	1.028 0 z	18...21.6	- C...	H1-1
300	M152 L1-1/2x1-1/2x1/4	.000	0	1.028 0 z	18...21.6	- C...	H1-1
301	M161 L1-1/2x1-1/2x1/4	.000	0	1.026 0 z	18...21.6	- C...	H1-1
302	M184 L1-1/2x1-1/2x1/4	.000	0	1.003 0 z	18...21.6	- C...	H1-1
303	M193 L1-1/2x1-1/2x1/4	.000	0	1.002 1.2 z	18...21.6	- C...	H1-1
304	M202 L1-1/2x1-1/2x1/4	.000	0	1.002 0 z	18...21.6	- C...	H1-1
305	M211 L1-1/2x1-1/2x1/4	.000	0	1.001 1.2 z	18...21.6	- C...	H1-1

Envelope AISC ASD Steel Code Checks (Continued)

Me...	Shape	Code Check	Lo.....	Sh...	Lo.....	Fa...	Ft[...	Fb ...	Fb	AS...
306	M220 L1-1/2x1-1/2x1/4	.000	0	1	.002 1.2 z 8	18...	21.6	- C...		H1-1
307	M229 L1-1/2x1-1/2x1/4	.000	0	1	.002 0 z 7	18...	21.6	- C...		H1-1
308	M238 L1-1/2x1-1/2x1/4	.000	0	1	.004 1.2 z 7	18...	21.6	- C...		H1-1
309	M247 L1-1/2x1-1/2x1/4	.000	0	1	.001 0 z 6	18...	21.6	- C...		H1-1
310	M256 L1-1/2x1-1/2x1/4	.000	0	1	.003 0 z ...	18...	21.6	- C...		H1-1
311	M265 L1-1/2x1-1/2x1/4	.000	0	1	.005 0 z 7	18...	21.6	- C...		H1-1
312	M274 L1-1/2x1-1/2x1/4	.000	0	1	.017 0 z ...	18...	21.6	- C...		H1-1
313	M284 L4x3x4	.000	0	1	.001 0 z 1	18...	21.6	- C...		H1-1
314	M29... L4x3x4	.000	0	1	.001 0 z 1	18...	21.6	- C...		H1-1
315	M297 L4x3x4	.000	0	1	.002 0 z 2	18...	21.6	- C...		H1-1

APPENDIX C

Tower Elevation Drawing

Feed Line Plan 27'6"

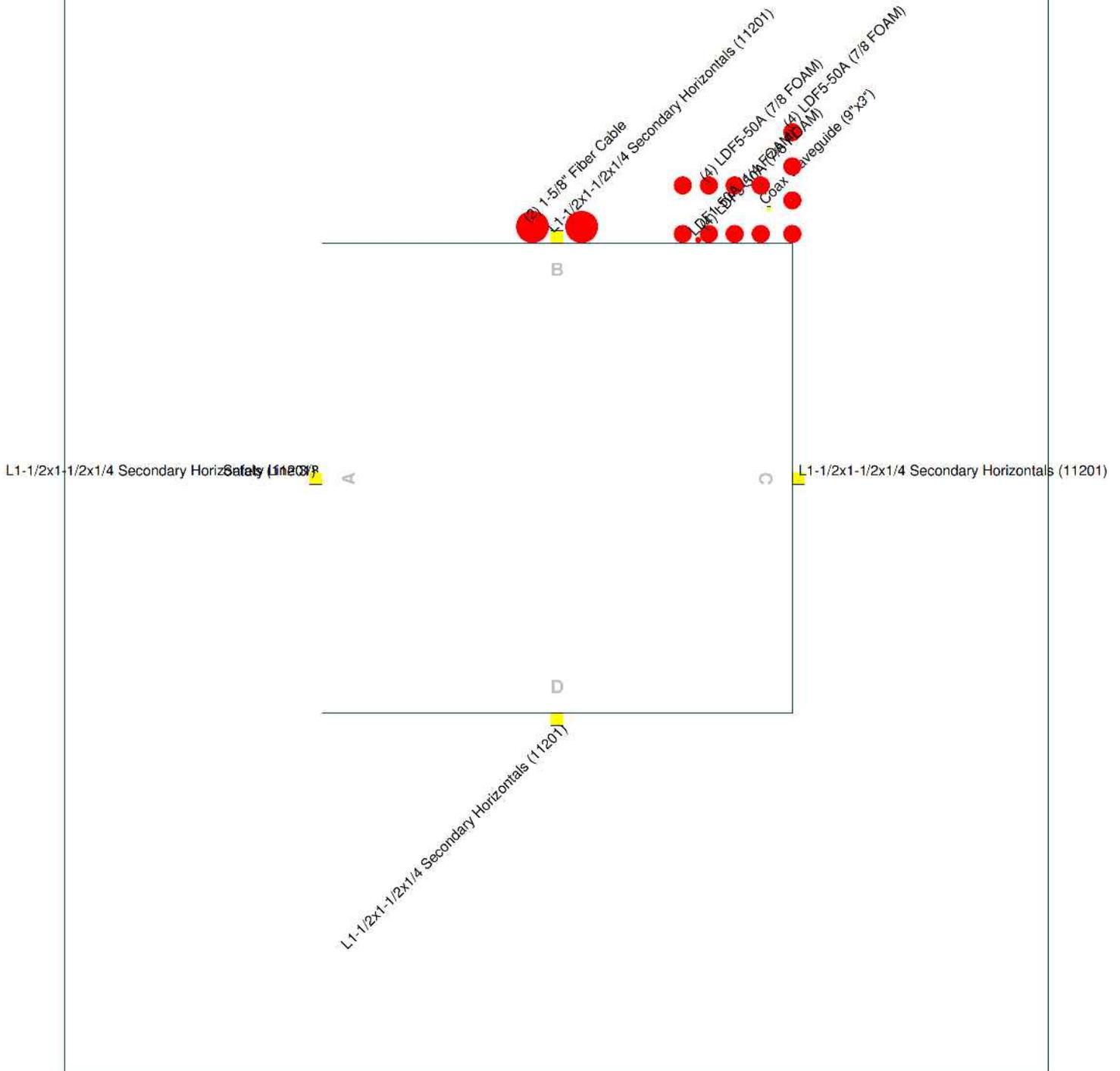
Round

Flat

App In Face

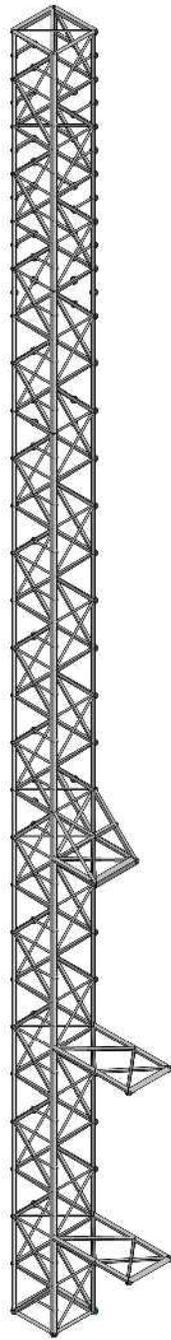
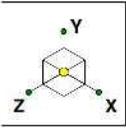
App Out Face

Section @ 27'6"



<p>GPD 520 South Main Street, Suite 2531 Akron, OH 44311 Phone: (330) 572.2100 FAX: (330) 572.2101</p>	Job: 11201 Clinton Project: 2015783.11201.01		Drawn by: mmoeller	App'd:
	Client: CTI Tower Assets II, LLC	Code: TIA/EIA-222-F	Date: 10/08/15	Scale: NTS	Dwg No. E-7

\\APR05.gpdso.com\TELECOM\CTI Towers\11201\12-2015\783-11201-01.CTI.MXD\res\11201-CLINTON.dwg



Solution: Envelope

GPD

2015783.11201.01

11201 Clinton

SK - 1

Dec 23, 2015 at 9:25 AM

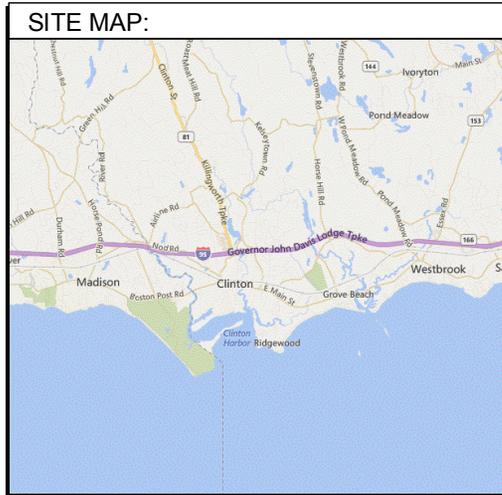
11201 CLINTON TNX.rt3

APPENDIX D

Modification Drawings

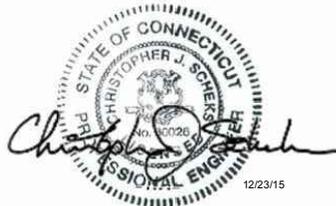
CLINTON

SITE #: 11201



CLIENT CONTACT:
 MS. CHRISTINE COOPER
 38 POND STREET, SUITE 305
 FRANKLIN, MA 02038
 (508) 440-5780

GPD CONTACT:
 520 SOUTH MAIN STREET, SUITE 2531
 AKRON, OH 44311
 FOR QUESTIONS PLEASE EMAIL:
GPDMODS@GPDGROUP.COM



TOWER INFORMATION:

TOWER DOCUMENTS: FDH/JOB #: 1424V21500
 TOWER HEIGHT/TYPE: 67.5' SELF SUPPORT TOWER
 TOWER LOCATION:
 LAT.: 41° 16' 43.87"
 LONG.: -72° 31' 33.52"
 STREET ADDRESS: 21 E MAIN STREET
 CITY, STATE ZIP: CLINTON, CT 06413
 COUNTY: MIDDLESEX
 REFERENCED ANALYSIS: GPD/PROJ. #: 2015703.20
 ANALYSIS DATE: 08/17/15

CODE COMPLIANCE:

GOVERNING CODES: TIA/EIA-222-F & 2005 CT STATE BUILDING CODE
 WIND SPEEDS: 85 MPH FASTEST MILE WIND SPEED
 37 MPH FASTEST MILE WIND SPEED (W/ ICE)
 ICE THICKNESS: 3/4"

SHEET INDEX:

T-01: TITLE SHEET
 N-01: PROJECT NOTES
 S-01: TOWER ELEVATION & MODIFICATION SCHEDULE
 S-02: MODIFICATION DETAILS & SECTIONS
 MI-01: MODIFICATION INSPECTION CHECKLIST



520 South Main Street
 Akron, OH 44311
 330.972.0000 Fax 330.972.0002



CLINTON
 SITE #: 11201
 DESIGN DRAWINGS
 PREPARED FOR:

REV	DATE	DESCRIPTION
1	12/23/15	REVISED PER FIELD CONDITIONS

CLINTON
 21 E MAIN STREET
 CLINTON, CT 06413
 TITLE SHEET

ISSUED FOR:	
PERMIT	12/23/15
BID	-
CONSTRUCTION	-
RECORD	-

MM	RR
BPS	CJS

JOB NO.
 2015783.11201.01

T-01



535 South Main Street
 Meriden, CT 06451
 310.97.2100 Fax 310.972.2302

CTI TOWERS

CLINTON
 SITE # - 11280
 DESIGN DRAWINGS
 PREPARED FOR:

REV	DATE	DESCRIPTION
1	12/23/15	REVISED PER FIELD CONDITIONS

CLINTON
 21 E MAIN STREET
 CLINTON, CT 06413

TOWER ELEVATION & MODIFICATION SCHEDULE

ISSUED FOR:

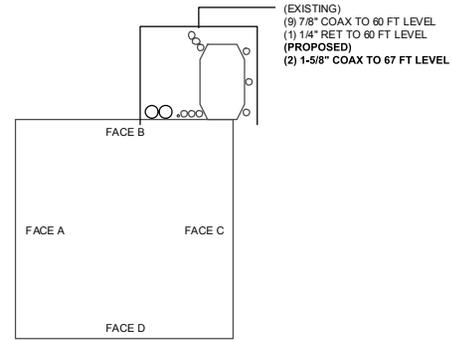
PERMIT	12/23/2015
BID	-
CONSTRUCTION	-
RECORD	-

REVISED	DATE
MM	RR
BPS	CJS

JOB NO.
 2015783.11201.01

S-01

MODIFICATION SCHEDULE					
MEMBER TYPE	ELEVATION	EXISTING MEMBER	NEW MEMBER	REFERENCE DETAIL	NOTES
WALL MOUNT BRACING	25'-0"± TO 27'-6"±	VARIES	L2x2x1/4	1/S-02	INSTALL NEW BRACING TO THE EXISTING WALL MOUNT.
DIAGONALS	25'-0"± TO 27'-6"±	L1-1/2x1-1/2x1/4	L2x2x1/4	1/S-02	REMOVE EXISTING DIAGONAL MEMBER AND REPLACE WITH NEW LARGER SIZE MEMBER.



COAX LAYOUT
 N.T.S



ELEV. 67'-6"±
 TOP OF TOWER

ELEV. 67'-0"±
 SECTOR LOADING

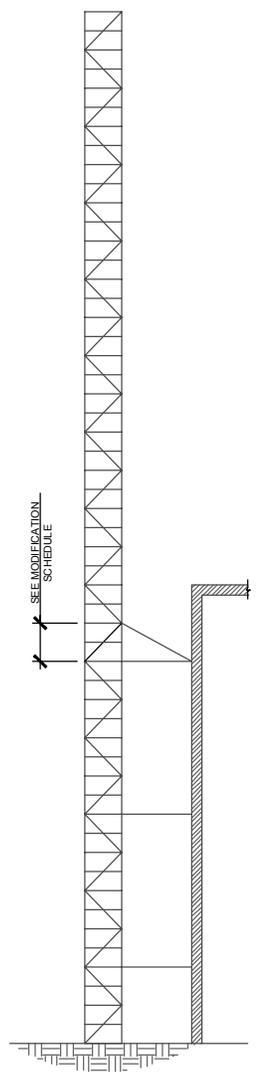
ELEV. 60'-0"±
 PIPE MOUNT

NOTE: FOR FULL ANTENNA CONFIGURATION SEE ASSOCIATED PASSING ANALYSIS.

ELEV. 48'-0"±

ELEV. 28'-0"±

ELEV. 0'-0"±
 TOWER BASE



TOWER ELEVATION
 N.T.S

MAX. CORNER REACTIONS AT BASE

DOWN: 8 K
 SHEAR: 2 K
 UPLIFT: -12 K
 SHEAR: 3 K



TORQUE - 2 kip-ft
 37 MPH WIND - 0.750 IN. ICE



TORQUE - 3 kip-ft
 REACTIONS - 85 mph WIND



520 South Main Street
 Meriden, CT 06451
 383.97.2100 Fax 383.972.2302



CLINTON
 SITE # 11288
 DESIGN DRAWINGS
 PREPARED FOR:

REV.	DATE	DESCRIPTION
A	12/23/15	REVISED PER FIELD CONDITIONS

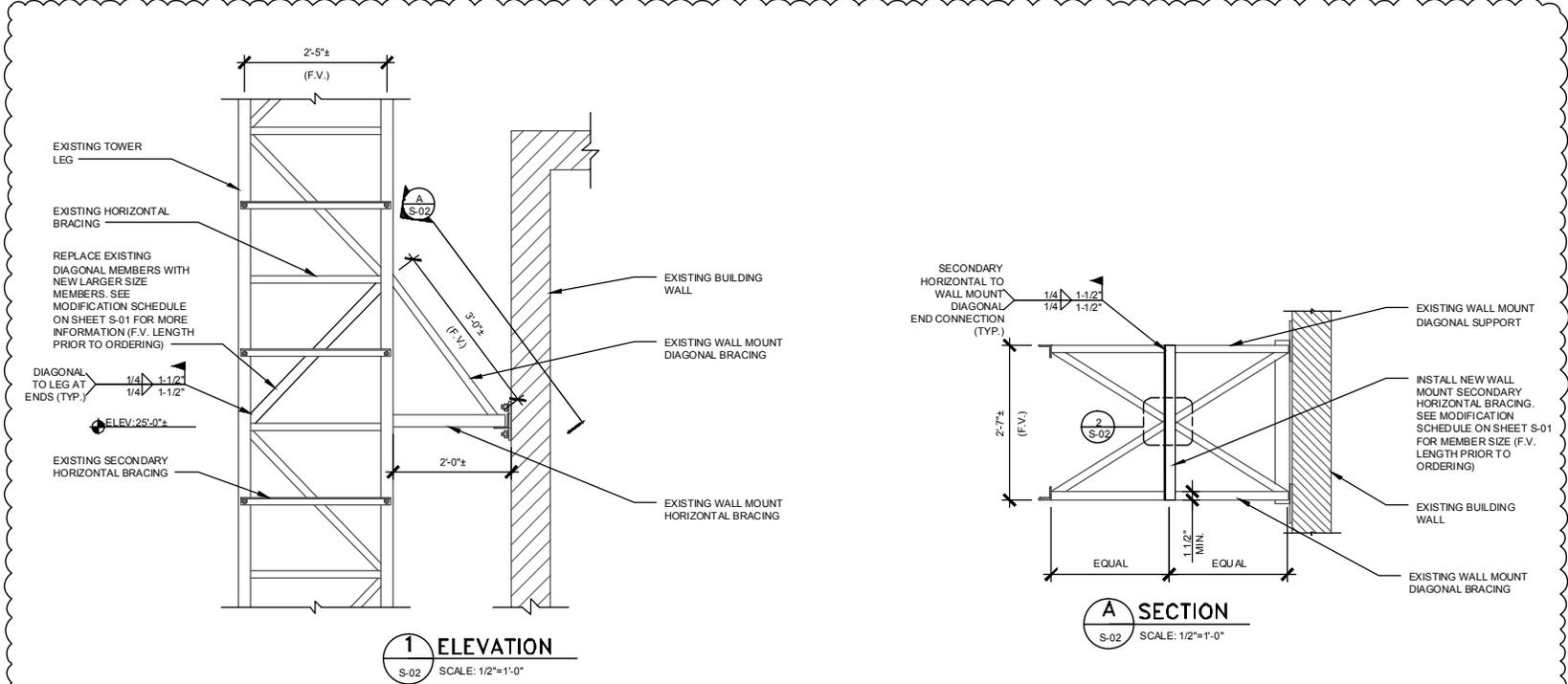
CLINTON
 21 E. MAIN STREET
 CLINTON, CT 06413
**MODIFICATION DETAILS
 & SECTIONS**

ISSUED FOR:	PERMIT	12/29/2015
BID	-	
CONSTRUCTION	-	
RECORD	-	

REVISED	1/15/16
MM	RR
FOR PROJECT USE ONLY	DATE / BY
BPS	CJS

JOB NO.
 2015783.11201.01

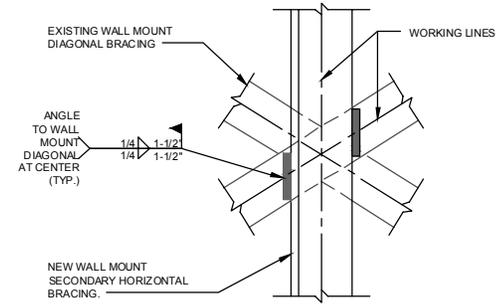
S-02



1 ELEVATION
 S-02 SCALE: 1/2"=1'-0"

A SECTION
 S-02 SCALE: 1/2"=1'-0"

NOTES:
 1. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE TOWER LEG DURING REMOVAL OF EXISTING DIAGONAL MEMBER.



2 DETAIL
 S-02 SCALE: 3"=1'-0"



