



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

December 19, 2018

Ray Perry
Airosmith Developmetn Inc.
32 Clinton Street
Saratoga Springs, NY 12866

RE: **EM-SPRINT-008-181207** – Sprint Spectrum, LP notice of intent to modify an existing telecommunications facility located at 9 Meyers Road (a/k/a 93 Old Amity Road), Bethany, Connecticut.

Dear Mr. Perry:

The Connecticut Siting Council (Council) is in receipt of your correspondence of December 19, 2018 submitted in response to the Council's December 18, 2018 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

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

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/emr

Robidoux, Evan

From: Ray Perry <rperry@airosmithdevelopment.com>
Sent: Wednesday, December 19, 2018 9:51 AM
To: Robidoux, Evan
Cc: CSC-DL Siting Council; Bachman, Melanie; Terri Burkholder
Subject: RE: Council Incomplete Letter for EM-SPRINT-008-181217
Attachments: CT03XC043_DO MACRO Redesign_Post Mod_Structural Pass 105%_11-19-2018.pdf; em-sprint-008-181217_incomplete_meyersrd_aka_oldamityrd.pdf

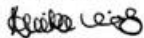
Good Morning,

Thank you for the notification about the lack of a signature. It appears that when I combine the documents into a PDF for the electronic submittal, the signature will not show up. However, the printed copies that I provided have it as well as the attached and screenshot below. I will reach out to American Tower to see if they can send another copy with a new electronic signature unless you think otherwise. Please let me know.

Thank you,
Ray


Date : October 18, 2018
Max Usage : 105%
Result : Pass

Prepared By:
Annika A. Venning, E.I.
Structural Engineer II



Reviewed By:



Authorized by "EOR"
Oct 18 2018 5:29 PM 

COA: PEC.0001553

Ray Perry

Senior Site Acquisition | [Airosmith Development](#)
32 Clinton Street | Saratoga Springs | New York | 12866
(518) 796-9165 phone | (518) 306-1711 fax

From: Robidoux, Evan
Sent: Wednesday, December 19, 2018 8:58 AM
To: Ray Perry
Cc: CSC-DL Siting Council
Subject: Council Incomplete Letter for EM-SPRINT-008-181217

Please see the attached correspondence.

Evan Robidoux
Clerk Typist
Connecticut Siting Council
10 Franklin Square

New Britain, CT 06051



AMERICAN TOWER®
CORPORATION

Post – Modification Structural Analysis Report

Structure : 337.5 ft Self Supported Tower
ATC Site Name : Bethany CT, CT
ATC Site Number : 88008
Engineering Number : OAA712592_C4_14
Proposed Carrier : Sprint Nextel
Carrier Site Name : Bethany, NY (American Towers, INC.)
Carrier Site Number : CT03XC043
Site Location : 93 Old Amity Road
Bethany, CT 06524-3400
41.404800,-73.000000
County : New Haven
Date : October 18, 2018
Max Usage : 105%
Result : Pass

Prepared By:
Annika A. Venning, E.I.
Structural Engineer II

Reviewed By:

COA: PEC.0001553



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Introduction

The purpose of this report is to summarize results of a post – modification structural analysis performed on the 337.5 ft self supported tower to reflect the change in loading by Sprint Nextel.

Supporting Documents

Tower Drawings	CSEI Analysis ATC Engineering #73115244, dated November 18, 2002
Foundation Drawing	Mapping by ETS Project #120302.01, dated June 18, 2012
Geotechnical Report	Geotel Report #E12-221, dated June 5, 2012
Modification Drawings	ATC Job #OAA712592_C6_13, dated August 13, 2018 (Pending)

Analysis

The tower was analyzed Power Line System's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	97 mph (3-Second Gust, Vasd) / 125 mph (3-Second Gust, Vult)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	1
Crest Height:	0 ft
Spectral Response:	$S_s = 0.19$, $S_1 = 0.06$
Site Class:	D - Stiff Soil

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report. If the pending modifications cited in the supporting documents table are not completed, the results of this analysis are no longer valid, and Sprint Nextel should contact American Tower's Site Manager for further direction on how to proceed.

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



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
340.0	340.0	1	Rohde & Schwarz ADD090	Side Arm	(2) 7/8" Coax (1) 1/2" Coax	US Dept Of Homeland Security
326.0	326.0	1	Kathrein 750 10074	Platform w/ Handrails	(1) 1 5/8" Coax	Ligado Networks
317.0	317.0	1	Sinclair SC281-L	Sector Frame	(1) 7/8" Coax	US Dept Of Homeland Security
314.0	314.0	1	Sinclair SC381-HL	Sector Frame	(1) 7/8" Coax	
291.0	291.0	2	8' Omni	Side Arm	-	--
283.0	283.0	1	Sinclair SC281-L	Sector Frame	(1) 7/8" Coax	US Dept Of Homeland Security
266.0	266.0	1	8' Omni	Side Arm	-	--
240.0	240.0	3	Alcatel-Lucent 800MHz 2X50W RRH w/ Filter	Sector Frame	(4) 1 1/4" Hybriflex	Sprint Nextel
		3	Alcatel-Lucent 1900MHz 4X45 RRH			
		3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
220.0	220.0	6	KMW Smart Bias-T	Sector Frame	(12) 1 5/8" Coax (1) 3/8" Coax	T-Mobile
		6	Remec S20057A1			
		3	RFS APX16PV-16PVL-E-00			
		3	Andrew LNX-6515DS-VTM			
213.0	213.0	1	Andrew DB616E-BC	Side Arm	(1) 1 1/4" Coax	US Dept Of Homeland Security
184.0	184.0	6	RFS FD9R6004/1C-3L	Sector Frame	(12) 1 5/8" Coax	Verizon
		3	Ryma MGD3-800TX			
		6	Andrew DB844H90E-XY			
		3	Powerwave P65-16-XL-2			
158.0	158.0	3	Powerwave LGP21901	Sector Frame	(6) 1 5/8" Coax (2) 0.78" 8 AWG 6 (1) 3" conduit (1) 0.39" Fiber Trunk	AT&T Mobility
		3	Raycap DC2-48-60-0-9E			
		6	Powerwave LGP21401			
		1	Raycap FC12-PC6-10E			
		3	Ericsson RRUS 11 (Band 12)			
		3	Powerwave 7770.00			
		1	KMW AM-X-CD-16-65-00T-RET			
		2	Andrew SBNH-1D6565C			
103.0	103.0	3	RFS APXV18-206517S-C	Leg	(6) 1 5/8" Coax	Metro PCS
48.0	48.0	1	PCTEL GPS-TMG-HR-26N	Stand-Off	(1) 1/2" Coax	Sprint Nextel

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
253.0	253.0	12	Decibel DB844H90E-XY	Leg	(12) 1 5/8" Coax	Sprint Nextel
240.0	240.0	3	RFS RFS APXV9TM14-ALU-I20	-	(4) 1 1/4" Hybriflex	
		3	RFS APXVSP18-C-A20			



Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
240.0	240.0	3	Alcatel-Lucent 800MHz 2X50W RRH w/ Filter	Sector Frame	-	Sprint Nextel
		3	RFS APXVTM14-ALU-I20			
		3	Commscope NNVV-65B-R4			

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

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	85%	Pass
Diagonals	105%	Pass
Truss Diagonals	97%	Pass
Horizontals	91%	Pass
Truss Horizontals	74%	Pass
Anchor Bolts	45%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Uplift (Kips)	309.1	55%
Axial (Kips)	448.9	3%

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.



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.

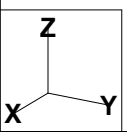
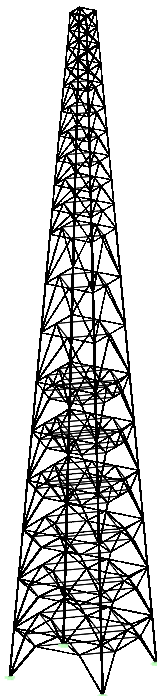


Table with columns for member ID, length, weight, area, moment of inertia, etc. for various steel members.

Printed capacities do not include the strength factor entered for each load case. The Group Summary reports on the member and load case that resulted in maximum usage which may not necessarily be the same as that which produces maximum force.

Group Summary (Compression Portion):

Large table showing member details for compression, including Group Label, Desc, Group Angle, Steel, Max Usage, Max Tension, Tension Tension, Net Tension, Tension Tension, Tension Length, No. of Bolts, Hole of Diameter, etc.

Group Summary (Tension Portion):

Large table showing member details for tension, including Group Label, Group Angle, Desc, Steel, Max Usage, Max Tension, Tension Tension, Net Tension, Tension Tension, Tension Length, No. of Bolts, Hole of Diameter, etc.

Horiz 5	B/B L3.5"x2.5"x0.25"	DAL 3.5X2.5X0.25	36.0	73.40	Comp	36.16	H 9X	33.740	W -90	93.312	0.000	0.000	0.000	11.998	0	0.000	0
Horiz 6	B/B L3"x2.5"x0.25"	DAL 3X2.5X0.25	36.0	76.26	Comp	33.18	H 11P	28.276	W 90	85.212	0.000	0.000	0.000	10.940	0	0.000	0
Horiz 7	B/B L3"x2.5"x0.25"	DAL 3X2.5X0.25	36.0	57.40	Comp	15.53	H 14P	13.231	W 0	85.212	0.000	0.000	0.000	14.822	0	0.000	0
Horiz 8	B/B L3"x2.5"x0.25"	DAL 3X2.5X0.25	36.0	41.12	Comp	13.01	H 16P	11.087	W 0	85.212	0.000	0.000	0.000	13.234	0	0.000	0
Horiz 9	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	42.09	Comp	12.30	H 18Y	9.483	W 180	77.112	0.000	0.000	0.000	11.646	0	0.000	0
Horiz 10	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	33.13	Comp	10.31	H 20Y	7.952	W 180	77.112	0.000	0.000	0.000	10.852	0	0.000	0
Horiz 11	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	22.55	Comp	8.19	H 22Y	6.313	W 180	77.112	0.000	0.000	0.000	10.058	0	0.000	0
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	19.19	Comp	7.64	H 24P	5.893	W 0	77.112	0.000	0.000	0.000	9.264	0	0.000	0
Horiz 13	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	17.50	Comp	7.63	H 26P	5.887	W 0	77.112	0.000	0.000	0.000	8.470	0	0.000	0
Horiz 14	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	13.31	Comp	6.39	H 28P	4.931	W 0	77.112	0.000	0.000	0.000	7.676	0	0.000	0
Horiz 15	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	17.64	Comp	0.81	H 29XY	0.624	W -90	77.112	0.000	0.000	0.000	6.882	0	0.000	0
Horiz 16	L 3" x 2.5" x 0.25"	SAU 3X2.5X0.25	36.0	41.76	Comp	0.00	H 32X	0.000		42.444	0.000	0.000	0.000	12.472	0	0.000	0
Horiz 17	B/B L3"x2.5"x0.25"	DAL 3X2.5X0.25	36.0	11.82	Comp	0.00	H 34X	0.000		85.212	0.000	0.000	0.000	11.181	0	0.000	0
Horiz 18	L 3" x 2.5" x 0.25"	SAU 3X2.5X0.25	36.0	21.80	Comp	0.00	H 36X	0.000		42.444	0.000	0.000	0.000	10.090	0	0.000	0
Horiz 19		C8x11.5															
LD 1	B/B L3"x2.5"x0.3125"	DAL 3X2.5X0.31	36.0	55.90	Comp	18.48	LD 2Y	19.402	W -45	104.976	0.000	0.000	0.000	14.066	0	0.000	0
LD 2	B/B L4"x3"x0.3125"	DAL 4X3X0.31	36.0	78.18	Comp	32.79	LD 3P	44.401	W -90	135.432	0.000	0.000	0.000	14.066	0	0.000	0
LD 4	B/B L3"x2"x0.25"	DAL 3X2X0.25	36.0	72.49	Comp	22.88	LD 7P	17.640	W -90	77.112	0.000	0.000	0.000	13.384	0	0.000	0
LD 5	B/B L4"x3"x0.25"	DAL 4X3X0.25	36.0	84.59	Comp	38.96	LD 9P	42.664	W -90	109.512	0.000	0.000	0.000	13.384	0	0.000	0
LD 7	B/B L2.5"x2.5"x0.375"	DAE 2.5X2.5X0.38	36.0	54.74	Comp	14.90	LD 13P	16.750	W -90	112.428	0.000	0.000	0.000	12.716	0	0.000	0
LD 8	B/B L3.5"x3"x0.25"	DAL 3.5X3X0.25	36.0	96.51	Comp	40.38	LD 15P	40.950	W -90	101.412	0.000	0.000	0.000	12.716	0	0.000	0
LD 10	B/B L3"x3"x0.25"	DAE 3X3X0.25	36.0	51.59	Comp	20.63	LD 20Y	19.247	W -45	93.312	0.000	0.000	0.000	11.381	0	0.000	0
LD 11	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	77.87	Comp	37.26	LD 21P	25.714	W -90	69.012	0.000	0.000	0.000	8.160	0	0.000	0
LD 12	B/B L3"x2"x0.25"	DAL 3X2X0.25	36.0	79.63	Comp	42.83	LD 23X	33.025	W -90	77.112	0.000	0.000	0.000	9.604	0	0.000	0
LD 13	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	72.67	Comp	25.60	LD 26Y	17.664	W -45	69.012	0.000	0.000	0.000	10.793	0	0.000	0
LD 14	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	73.36	Comp	36.58	LD 27P	25.242	W -90	69.012	0.000	0.000	0.000	8.014	0	0.000	0
LD 15	B/B L3"x3"x0.25"	DAE 3X3X0.25	36.0	57.10	Comp	33.62	LD 29X	31.369	W -90	93.312	0.000	0.000	0.000	9.253	0	0.000	0
LD 16	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	63.51	Comp	24.33	LD 32Y	16.794	W -45	69.012	0.000	0.000	0.000	10.229	0	0.000	0
LD 17	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	68.18	Comp	33.52	LD 33P	23.134	W -90	69.012	0.000	0.000	0.000	7.876	0	0.000	0
LD 18	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	83.78	Comp	41.59	LD 35X	28.703	W -90	69.012	0.000	0.000	0.000	8.919	0	0.000	0
LH 1	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	10.70	Tens	10.70	LH 1Y	9.116	W 0	85.212	0.000	0.000	0.000	24.350	0	0.000	0
LH 2	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	6.79	Tens	6.79	LH 3Y	5.783	W 0	85.212	0.000	0.000	0.000	22.762	0	0.000	0
LH 3	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	7.05	Tens	7.05	LH 5Y	6.004	W 0	85.212	0.000	0.000	0.000	21.174	0	0.000	0
LH 4	B/B L3"x3"x0.375"	DAE 4X3X0.38	36.0	60.44	Comp	15.44	LH 8Y	21.106	W -45	136.728	0.000	0.000	0.000	10.647	0	0.000	0
LH 5	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	74.16	Comp	22.06	LH 10Y	18.799	W -45	85.212	0.000	0.000	0.000	9.820	0	0.000	0
LH 6	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	58.66	Comp	20.07	LH 12Y	17.098	W -45	85.212	0.000	0.000	0.000	8.993	0	0.000	0
DWM 1	Dummy Bracing Member	DWM 0.1X0.1X1	36.0	0.00	Comp	0.00	BR 15X	0.739	W -45	0.324	0.000	0.000	0.000	18.715	0	0.000	0

*** Maximum Stress Summary for Each Load Case

Summary of Maximum Usages by Load Case:

Load Case	Maximum Usage %	Element Label	Element Type
W 0	103.47	D 11P	Angle NG
W 180	104.70	D 11Y	Angle NG
W 45	86.67	D 12P	Angle
W -45	92.43	D 12X	Angle
W 90	103.91	D 12P	Angle NG
W -90	105.06	D 12X	Angle NG
W 0 Ice	36.33	D 11P	Angle
W 180 Ice	37.60	D 11Y	Angle
W 45 Ice	40.65	L 1P	Angle
W -45 Ice	39.74	L 1X	Angle
W 90 Ice	36.46	D 12P	Angle
W -90 Ice	37.65	D 12X	Angle

*** Weight of structure (lbs):
 Weight of Angles*Section DLF: 179060.9
 Total: 179060.9

*** End of Report

Legs

Site No.:	88008
Engineer:	AAV
Date:	03/29/2018
Carrier:	Sprint Nextel

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter or Length (in)	Thickness ^[2] (in)	F _y (ksi)
1	0.000-25.00	L	8	1.125	36
2	25.00-50.00	L	8	1.125	36
3	50.00-75.00	L	8	1.125	36
4	75.00-100.0	L	8	1.125	36
5	100.0-125.0	L	8	1	36
6	125.0-150.0	L	8	1	36
7	150.0-175.0	L	8	0.875	36
8	175.0-200.0	L	8	0.75	36
9	200.0-225.0	L	8	0.75	36
10	225.0-237.5	L	6	0.875	36
11	237.5-250.0	L	6	0.75	36
12	250.0-262.5	L	6	0.75	36
13	262.5-275.0	L	6	0.5625	36
14	275.0-287.5	L	6	0.5625	36
15	287.5-300.0	L	6	0.4375	36
16	300.0-310.2	L	5	0.4375	36
17	310.2-320.3	L	5	0.4375	36
18	320.3-328.9	L	5	0.3125	36
19	328.9-337.5	L	5	0.3125	36

Notes:

^[1] Type of Leg Shape: **R** = Round or **P** = Bent Plate or **S** = Schifferized Angle. **L** = Even Leg

^[2] For Solid Round Leg Shapes Thickness Equals Zero.

^[3] Adjust for Bent Plate Leg Shapes.

Diagonals

Site No.:	88008
Engineer:	AAV
Date:	03/29/2018
Carrier:	Sprint Nextel

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	Is Diag. Tension Only? (Y/N)
1	0.000-25.00	2L		3	4	0.375	36	
2	25.00-50.00	2L		3	4	0.25	36	
3	50.00-75.00	2L		3	4	0.25	36	
4	75.00-100.0	2L		3	3.5	0.25	36	
5	100.0-125.0	2L		3	3.5	0.25	36	
6	125.0-150.0	2L		2.5	3.5	0.25	36	
7	150.0-175.0	2L		3	3	0.375	36	
8	175.0-200.0	2L		2.5	3	0.25	36	
9	200.0-225.0	2L		2.5	3	0.25	36	
10	225.0-237.5	2L		2.5	2.5	0.25	36	
11	237.5-250.0	2L		2.5	2.5	0.25	36	
12	250.0-262.5	2L		2.5	2.5	0.25	36	
13	262.5-275.0	2L		2.5	2	0.25	36	
14	275.0-287.5	2L		2.5	2	0.25	36	
15	287.5-300.0	2L		2.5	2	0.25	36	
16	300.0-310.2	L		3.5	3.5	0.25	36	Y
17	310.2-320.3	L		3.5	3.5	0.25	36	Y
18	320.3-328.9	L		3	3	0.25	36	Y
19	328.9-337.5	L		3	3	0.25	36	Y

Notes:

^[1] Type of Diagonal Shape: R = Round, L = Single-Angle or 2L = Double-Angle.

^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

^[3] Applies to Single-Angle and Double-Angle Shapes only.

^[4] Applies to Double-Angle Shapes only.

^[5] Applies to Single-Angle Shapes only.

Horizontals

Site No.:	88008
Engineer:	AAV
Date:	03/29/2018
Carrier:	Sprint Nextel

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	
1	0.000-25.00	2L		4	3	0.25	36	
2	25.00-50.00	2L		3.5	2.5	0.25	36	
3	50.00-75.00	2L		3	2.5	0.25	36	
4	75.00-100.0	2L		3.5	2.5	0.25	36	
5	100.0-125.0	2L		3.5	2.5	0.25	36	
6	125.0-150.0	2L		3	2.5	0.25	36	
7	150.0-175.0	2L		3	2.5	0.25	36	
8	175.0-200.0	2L		3	2.5	0.25	36	
9	200.0-225.0	2L		2.5	2.5	0.25	36	
10	225.0-237.5	2L		2.5	2.5	0.25	36	
11	237.5-250.0	2L		2.5	2.5	0.25	36	
12	250.0-262.5	2L		2.5	2.5	0.25	36	
13	262.5-275.0	2L		2.5	2.5	0.25	36	
14	275.0-287.5	2L		2.5	2.5	0.25	36	
15	287.5-300.0	2L		2.5	2.5	0.25	36	
16	300.0-310.2	L		3	2.5	0.25	36	
17	310.2-320.3	2L		3	2.5	0.25	36	
18	320.3-328.9	L		3	2.5	0.25	36	
19	328.9-337.5	C		8	11.5		36	

Notes:

^[1] Type of Horizontal Shape: **R** = Round, **L** = Single-Angle, **2L** = Double-Angle, **C** = Channel, **W** = W Shape

^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

^[3] Applies to Single-Angle and Double-Angle Shapes only.

^[4] Applies to Double-Angle Shapes only.

^[5] Applies to Single-Angle Shapes only.

Built-up Diagonals

Site No.:	88008
Engineer:	AAV
Date:	03/29/2018
Carrier:	Sprint Nextel

When inputting thickness values, include all decimal places.
Input diags. from left to center & from base section upward.

Tower Built-up Diag. #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)
1	0.000-25.00	2L		3	2.5	0.3125	36
2	0.000-25.00	2L		4	3	0.3125	36
3	25.00-50.00	2L		3	2	0.25	36
4	25.00-50.00	2L		4	3	0.25	36
5	50.00-75.00	2L		2.5	2.5	0.375	36
6	50.00-75.00	2L		3.5	3	0.25	36
7	75.00-100.0	2L		3	3	0.25	36
8	75.00-100.0	2L		2.5	2	0.25	36
9	75.00-100.0	2L		3	2	0.25	36
10	100.0-125.0	2L		2.5	2	0.25	36
11	100.0-125.0	2L		2.5	2	0.25	36
12	100.0-125.0	2L		3	3	0.25	36
13	125.0-150.0	2L		2.5	2	0.25	36
14	125.0-150.0	2L		2.5	2	0.25	36
15	125.0-150.0	2L		2.5	2	0.25	36

Notes:

^[1] Type of Diagonal Shape: **R** = Round, **L** = Single-Angle or **2L** = Double-Angle.

^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

^[3] Applies to Single-Angle and Double-Angle Shapes only.

^[4] Applies to Double-Angle Shapes only.

^[5] Applies to Single-Angle Shapes only.

Built-up Horizontals

Site No.:	88008
Engineer:	AAV
Date:	03/29/2018
Carrier:	Sprint Nextel

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	Is Horiz. Tension Only? (Y/N)
1	0.000-25.00	2L		2.5	3	0.25	36	Y
2	25.00-50.00	2L		2.5	3	0.25	36	Y
3	50.00-75.00	2L		2.5	3	0.25	36	Y
4	75.00-100.0	2L		3	3	0.375	36	
5	100.0-125.0	2L		2.5	3	0.25	36	
6	125.0-150.0	2L		2.5	3	0.25	36	

Notes:

^[1] Type of Horizontal Shape: R = Round, L = Single-Angle or 2L = Double-Angle.

^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

^[3] Applies to Single-Angle and Double-Angle Shapes only.

^[4] Applies to Double-Angle Shapes only.

^[5] Applies to Single-Angle Shapes only.

Site No.:	88008
Engineer:	AAV
Date:	03/29/18
Carrier:	Sprint Nextel

Description	From (ft)	To (ft)	Quantity	Shape	Width or Diameter (in)	Perimeter (in)	Unit Weight (lb/ft)	Part of Face Solidity Ratio (Yes/No)	Include in Wind Load (Yes/No)
1 Climbing Ladder	0	337.5	1	Flat	2	8.0	6	Yes	Yes
2 US Dept	0	337.5	2	Round	1.09	3.4	0.33	Yes	Yes
3 US Dept1	0	337.5	1	Round	0.63	2.0	0.15	Yes	Yes
4 Ligado	0	319	1	Round	1.98	6.2	0.82	Yes	Yes
5 US Dept2	0	310	2	Round	1.09	3.4	0.33	Yes	Yes
6 US Dept3	0	275	1	Round	1.09	3.4	0.33	Yes	Yes
7 Sprint1	0	240	4	Round	1.54	4.8	1	Yes	Yes
8 TMO	0	220	1	Flat	6.5025	34.7	9.84	Yes	Yes
9 TMO1	0	220	1	Round	0.44	1.4	0.08	Yes	Yes
10 US Dept4	0	194	1	Round	0	#DIV/0!	0.63	No	No
11 Verizon	0	180	1	Flat	6.5025	34.7	9.84	Yes	Yes
12 ATT	0	165	6	Round	1.98	6.2	0.82	Yes	Yes
13 ATT1	0	165	1	Round	0	#DIV/0!	0.17	No	No
14 ATT2	0	165	1	Round	0	#DIV/0!	1.18	No	No
15 ATT3	0	165	1	Round	0	#DIV/0!	7.58	No	No
16 Metro	0	100	6	Round	1.98	6.2	0.82	Yes	Yes
17 Sprint2	0	48	1	Round	0	#DIV/0!	0.15	No	No
18 Coax Cage	12.5	32.5	2	Flat	12	48.0	25	Yes	Yes
19 Coax Cage2	12.5	32.5	2	Flat	12	48.0	25	Yes	Yes
20 Waive Guide	0	180	1	Flat	1.5	6.0	#N/A	Yes	Yes
21 Waive Guide1	0	165	1	Flat	1.5	6.0	#N/A	Yes	Yes
22 Waive Guide2	0	100	1	Flat	1.5	6.0	#N/A	Yes	Yes

Site #: 88008
 Name: Sprint Nextel

Engineer: AAV
 Date: 03/29/18

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
L 1	Leg S1		XY-Symmetry	0P	1P	1	4	0.2812	0.2812	0.2812
L 2	Leg S2		XY-Symmetry	1P	2P	1	4	0.2812	0.2812	0.2812
L 3	Leg S3		XY-Symmetry	2P	3P	1	4	0.2812	0.2812	0.2812
L 4	Leg S4		XY-Symmetry	3P	4P	1	4	0.2812	0.2812	0.2812
L 5	Leg S5		XY-Symmetry	4P	5P	1	4	0.2812	0.2812	0.2812
L 6	Leg S6		XY-Symmetry	5P	6P	1	4	0.2812	0.2812	0.2812
L 7	Leg S7		XY-Symmetry	6P	7P	1	4	0.33333333	0.33333333	0.33333333
L 8	Leg S8		XY-Symmetry	7P	8P	1	4	0.33333333	0.33333333	0.33333333
L 9	Leg S9		XY-Symmetry	8P	9P	1	4	0.33333333	0.33333333	0.33333333
L 10	Leg S10		XY-Symmetry	9P	10P	1	4	0.5	0.5	0.5
L 11	Leg S11		XY-Symmetry	10P	11P	1	4	0.5	0.5	0.5
L 12	Leg S12		XY-Symmetry	11P	12P	1	4	0.5	0.5	0.5
L 13	Leg S13		XY-Symmetry	12P	13P	1	4	0.5	0.5	0.5
L 14	Leg S14		XY-Symmetry	13P	14P	1	4	0.5	0.5	0.5
L 15	Leg S15		XY-Symmetry	14P	15P	1	4	0.5	0.5	0.5
L 16	Leg S16		XY-Symmetry	15P	16P	1	4	0.5	0.5	0.5
L 17	Leg S17		XY-Symmetry	16P	17P	1	4	0.5	0.5	0.5
L 18	Leg S18		XY-Symmetry	17P	18P	1	4	0.5	0.5	0.5
L 19	Leg S19		XY-Symmetry	18P	19P	1	4	0.5	0.5	0.5
D 1	Diag S1		XY-Symmetry	0P	H2P	1	6	0.33333333	0.94	0.33333333
D 2	Diag S1		XY-Symmetry	0P	H1P	1	6	0.33333333	0.94	0.33333333
D 3	Diag S2		XY-Symmetry	1P	H6P	1	6	0.33333333	0.94	0.33333333
D 4	Diag S2		XY-Symmetry	1P	H5P	1	6	0.33333333	0.94	0.33333333
D 5	Diag S3		XY-Symmetry	2P	H10P	1	6	0.33333333	0.94	0.33333333
D 6	Diag S3		XY-Symmetry	2P	H9P	1	6	0.33333333	0.94	0.33333333
D 7	Diag S4		XY-Symmetry	3P	H14P	1	6	0.33333333	0.33	0.33333333
D 8	Diag S4		XY-Symmetry	3P	H13P	1	6	0.33333333	0.33	0.33333333
D 9	Diag S5		XY-Symmetry	4P	H18P	1	6	0.33333333	0.33	0.33333333
D 10	Diag S5		XY-Symmetry	4P	H17P	1	6	0.33333333	0.33	0.33333333
D 11	Diag S6		XY-Symmetry	5P	H22P	1	6	0.3	0.94	0.3
D 12	Diag S6		XY-Symmetry	5P	H21P	1	6	0.3	0.94	0.3
D 13	Diag S7		XY-Symmetry	6P	A13P	1	6	0.3	0.6	0.3
D 14	Diag S7		XY-Symmetry	6P	A14P	1	6	0.3	0.6	0.3
D 15	Diag S8		XY-Symmetry	7P	A15P	1	6	0.3	0.6	0.3
D 16	Diag S8		XY-Symmetry	7P	A16P	1	6	0.3	0.6	0.3
D 17	Diag S9		XY-Symmetry	8P	A17P	1	6	0.3	0.6	0.3
D 18	Diag S9		XY-Symmetry	8P	A18P	1	6	0.3	0.6	0.3
D 19	Diag S10		XY-Symmetry	9P	A19P	1	6	0.5	1	0.5
D 20	Diag S10		XY-Symmetry	9P	A20P	1	6	0.5	1	0.5
D 21	Diag S11		XY-Symmetry	10P	A21P	1	6	0.5	1	0.5
D 22	Diag S11		XY-Symmetry	10P	A22P	1	6	0.5	1	0.5
D 23	Diag S12		XY-Symmetry	11P	A23P	1	6	0.5	1	0.5
D 24	Diag S12		XY-Symmetry	11P	A24P	1	6	0.5	1	0.5
D 25	Diag S13		XY-Symmetry	12P	A25P	1	6	0.5	1	0.5
D 26	Diag S13		XY-Symmetry	12P	A26P	1	6	0.5	1	0.5
D 27	Diag S14		XY-Symmetry	13P	A27P	1	6	0.5	1	0.5
D 28	Diag S14		XY-Symmetry	13P	A28P	1	6	0.5	1	0.5
D 29	Diag S15		XY-Symmetry	14P	A29P	1	6	0.5	1	0.5
D 30	Diag S15		XY-Symmetry	14P	A30P	1	6	0.5	1	0.5
D 31	Diag S16		XY-Symmetry	15P	16Y	2	6	100	100	100
D 32	Diag S16		XY-Symmetry	15P	16X	2	6	100	100	100
D 33	Diag S17		XY-Symmetry	16P	17Y	2	5	100	100	100
D 34	Diag S17		XY-Symmetry	16P	17X	2	5	100	100	100
D 35	Diag S18		XY-Symmetry	17P	18Y	2	5	100	100	100
D 36	Diag S18		XY-Symmetry	17P	18X	2	5	100	100	100
D 37	Diag S19		XY-Symmetry	18P	19Y	2	5	100	100	100
D 38	Diag S19		XY-Symmetry	18P	19X	2	5	100	100	100
H 1	Horiz 1		XY-Symmetry	1P	A1P	1	6	0.5	0.5	0.5
H 2	Horiz 1		XY-Symmetry	1P	A2P	1	6	0.5	0.5	0.5
H 3	Horiz 2		XY-Symmetry	2P	A3P	1	6	0.49	0.49	0.49
H 4	Horiz 2		XY-Symmetry	2P	A4P	1	6	0.49	0.49	0.49
H 5	Horiz 3		XY-Symmetry	3P	A5P	1	6	0.46	0.46	0.46

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
H 6	Horiz 3		XY-Symmetry	3P	A6P		1 6	0.46	0.46	0.46
H 7	Horiz 4		XY-Symmetry	4P	A7P		1 6	1	1	1
H 8	Horiz 4		XY-Symmetry	4P	A8P		1 6	1	1	1
H 9	Horiz 5		XY-Symmetry	5P	A9P		1 6	0.98	0.98	0.98
H 10	Horiz 5		XY-Symmetry	5P	A10P		1 6	0.98	0.98	0.98
H 11	Horiz 6		XY-Symmetry	6P	A11P		1 6	1	1	1
H 12	Horiz 6		XY-Symmetry	6P	A12P		1 6	1	1	1
H 13	Horiz 7		XY-Symmetry	7P	A13P		1 6	1	1	1
H 14	Horiz 7		XY-Symmetry	7P	A14P		1 6	1	1	1
H 15	Horiz 8		XY-Symmetry	8P	A15P		1 6	1	1	1
H 16	Horiz 8		XY-Symmetry	8P	A16P		1 6	1	1	1
H 17	Horiz 9		XY-Symmetry	9P	A17P		1 6	1	1	1
H 18	Horiz 9		XY-Symmetry	9P	A18P		1 6	1	1	1
H 19	Horiz 10		XY-Symmetry	10P	A19P		1 6	1	1	1
H 20	Horiz 10		XY-Symmetry	10P	A20P		1 6	1	1	1
H 21	Horiz 11		XY-Symmetry	11P	A21P		1 6	1	1	1
H 22	Horiz 11		XY-Symmetry	11P	A22P		1 6	1	1	1
H 23	Horiz 12		XY-Symmetry	12P	A23P		1 6	1	1	1
H 24	Horiz 12		XY-Symmetry	12P	A24P		1 6	1	1	1
H 25	Horiz 13		XY-Symmetry	13P	A25P		1 6	1	1	1
H 26	Horiz 13		XY-Symmetry	13P	A26P		1 6	1	1	1
H 27	Horiz 14		XY-Symmetry	14P	A27P		1 6	1	1.2	1
H 28	Horiz 14		XY-Symmetry	14P	A28P		1 6	1	1.2	1
H 29	Horiz 15		XY-Symmetry	15P	A29P		1 6	1	1.07	1
H 30	Horiz 15		XY-Symmetry	15P	A30P		1 6	1	1.07	1
H 31	Horiz 16		Y-Symmetry	16P	16X		3 6	0.5	0.52	0.5
H 32	Horiz 16		X-Symmetry	16P	16Y		3 6	0.5	0.52	0.5
H 33	Horiz 17		Y-Symmetry	17P	17X		1 6	0.5	1	0.5
H 34	Horiz 17		X-Symmetry	17P	17Y		1 6	0.5	1	0.5
H 35	Horiz 18		Y-Symmetry	18P	18X		3 6	0.5	1	0.5
H 36	Horiz 18		X-Symmetry	18P	18Y		3 6	0.5	1	0.5
H 37	Horiz 19		Y-Symmetry	19P	19X		3 6	1	1	1
H 38	Horiz 19		X-Symmetry	19P	19Y		3 6	1	1	1
H 45	Horiz 4		Y-Symmetry	A7P	A7X		1 6	1	1	1
H 46	Horiz 4		X-Symmetry	A8P	A8Y		1 6	1	1	1
H 47	Horiz 5		Y-Symmetry	A9P	A9X		1 6	1	1	1
H 48	Horiz 5		X-Symmetry	A10P	A10Y		1 6	1	1	1
H 49	Horiz 6		Y-Symmetry	A11P	A11X		1 6	1	1	1
H 50	Horiz 6		X-Symmetry	A12P	A12Y		1 6	1	1	1
LH 1	LH 1		Y-Symmetry	H1P	H1X		1 6	100	100	100
LH 2	LH 1		X-Symmetry	H2P	H2Y		1 6	100	100	100
LH 3	LH 2		Y-Symmetry	H5P	H5X		1 6	100	100	100
LH 4	LH 2		X-Symmetry	H6P	H6Y		1 6	100	100	100
LH 5	LH 3		Y-Symmetry	H9P	H9X		1 6	100	100	100
LH 6	LH 3		X-Symmetry	H10P	H10Y		1 6	100	100	100
LH 7	LH 4		XY-Symmetry	H13P	H15P		1 6	0.94	1.88	0.94
LH 8	LH 4		XY-Symmetry	H14P	H16P		1 6	0.94	1.88	0.94
LH 9	LH 5		XY-Symmetry	H17P	H19P		1 6	0.94	1.88	0.94
LH 10	LH 5		XY-Symmetry	H18P	H20P		1 6	0.94	1.88	0.94
LH 11	LH 6		XY-Symmetry	H21P	H23P		1 6	0.94	1.88	0.94
LH 12	LH 6		XY-Symmetry	H22P	H24P		1 6	0.94	1.88	0.94
LD 1	LD 1		XY-Symmetry	H1P	1P		1 6	0.904	0.904	0.904
LD 2	LD 1		XY-Symmetry	H2P	1P		1 6	0.904	0.904	0.904
LD 3	LD 2		XY-Symmetry	H1P	A1P		1 6	0.904	0.904	0.904
LD 4	LD 2		XY-Symmetry	H2P	A2P		1 6	0.904	0.904	0.904
LD 7	LD 4		XY-Symmetry	H5P	2P		1 6	0.904	0.904	0.904
LD 8	LD 4		XY-Symmetry	H6P	2P		1 6	0.904	0.904	0.904
LD 9	LD 5		XY-Symmetry	H5P	A3P		1 6	0.904	0.904	0.904
LD 10	LD 5		XY-Symmetry	H6P	A4P		1 6	0.904	0.904	0.904
LD 13	LD 7		XY-Symmetry	H9P	3P		1 6	0.904	0.904	0.904

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
LD 14	LD 7		XY-Symmetry	H10P	3P	1	6	0.904	0.904	0.904
LD 15	LD 8		XY-Symmetry	H9P	A5P	1	6	0.904	0.904	0.904
LD 16	LD 8		XY-Symmetry	H10P	A6P	1	6	0.904	0.904	0.904
LD 19	LD 10		XY-Symmetry	H13P	4P	1	6	0.83	0.83	0.83
LD 20	LD 10		XY-Symmetry	H14P	4P	1	6	0.83	0.83	0.83
LD 21	LD 11		XY-Symmetry	H13P	A7P	1	6	0.85	0.85	0.85
LD 22	LD 11		XY-Symmetry	H14P	A8P	1	6	0.85	0.85	0.85
LD 23	LD 12		XY-Symmetry	A7P	H15P	1	6	0.86	0.86	0.86
LD 24	LD 12		XY-Symmetry	A8P	H16P	1	6	0.86	0.86	0.86
LD 25	LD 13		XY-Symmetry	H17P	5P	1	6	0.83	0.83	0.83
LD 26	LD 13		XY-Symmetry	H18P	5P	1	6	0.83	0.83	0.83
LD 27	LD 14		XY-Symmetry	H17P	A9P	1	6	0.85	0.85	0.85
LD 28	LD 14		XY-Symmetry	H18P	A10P	1	6	0.85	0.85	0.85
LD 29	LD 15		XY-Symmetry	A9P	H19P	1	6	0.86	0.86	0.86
LD 30	LD 15		XY-Symmetry	A10P	H20P	1	6	0.86	0.86	0.86
LD 31	LD 16		XY-Symmetry	H21P	6P	1	6	0.83	0.83	0.83
LD 32	LD 16		XY-Symmetry	H22P	6P	1	6	0.83	0.83	0.83
LD 33	LD 17		XY-Symmetry	H21P	A11P	1	6	0.85	0.85	0.85
LD 34	LD 17		XY-Symmetry	H22P	A12P	1	6	0.85	0.85	0.85
LD 35	LD 18		XY-Symmetry	A11P	H23P	1	6	0.86	0.86	0.86
LD 36	LD 18		XY-Symmetry	A12P	H24P	1	6	0.86	0.86	0.86
BR 1	DUM 1		XY-Symmetry	A1P	A2P	1	4	1	1	1
BR 3	DUM 1		XY-Symmetry	A3P	A4P	1	4	1	1	1
BR 5	DUM 1		XY-Symmetry	A5P	A6P	1	4	1	1	1
BR 7	DUM 1		XY-Symmetry	A7P	A8P	1	4	1	1	1
BR 8	DUM 1		XY-Symmetry	A7P	A8XY	1	4	1	1	1
BR 9	DUM 1		XY-Symmetry	A9P	A10P	1	4	1	1	1
BR 10	DUM 1		XY-Symmetry	A9P	A10XY	1	4	1	1	1
BR 11	DUM 1		XY-Symmetry	A11P	A12P	1	4	1	1	1
BR 12	DUM 1		XY-Symmetry	A11P	A12XY	1	4	1	1	1
BR 13	DUM 1		XY-Symmetry	A13P	A14P	1	4	1	1	1
BR 15	DUM 1		XY-Symmetry	A15P	A16P	1	4	1	1	1
BR 17	DUM 1		XY-Symmetry	A17P	A18P	1	4	1	1	1
BR 19	DUM 1		XY-Symmetry	A19P	A20P	1	4	1	1	1
BR 21	DUM 1		XY-Symmetry	A21P	A22P	1	4	1	1	1
BR 23	DUM 1		XY-Symmetry	A23P	A24P	1	4	1	1	1
BR 25	DUM 1		XY-Symmetry	A25P	A26P	1	4	1	1	1
BR 27	DUM 1		XY-Symmetry	A27P	A28P	1	4	1	1	1
BR 29	DUM 1		XY-Symmetry	A29P	A30P	1	4	1	1	1
BR 61	DUM 1		XY-Symmetry	H1P	H2P	1	4	1	1	1
BR 62	DUM 1		XY-Symmetry	H1P	H2XY	1	4	1	1	1
BR 64	DUM 1		XY-Symmetry	H5P	H6P	1	4	1	1	1
BR 65	DUM 1		XY-Symmetry	H5P	H6XY	1	4	1	1	1
BR 67	DUM 1		XY-Symmetry	H9P	H10P	1	4	1	1	1
BR 68	DUM 1		XY-Symmetry	H9P	H10XY	1	4	1	1	1
BR 70	DUM 1		XY-Symmetry	H13P	H14P	1	4	1	1	1
BR 71	DUM 1		XY-Symmetry	H13P	H14XY	1	4	1	1	1
BR 72	DUM 1		XY-Symmetry	H15P	H16P	1	4	1	1	1
BR 73	DUM 1		XY-Symmetry	H17P	H18P	1	4	1	1	1

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
BR 74	DUM 1		XY-Symmetry	H17P	H18XY	1	4	1	1	1
BR 75	DUM 1		XY-Symmetry	H19P	H20P	1	4	1	1	1
BR 76	DUM 1		XY-Symmetry	H21P	H22P	1	4	1	1	1
BR 77	DUM 1		XY-Symmetry	H21P	H22XY	1	4	1	1	1
BR 78	DUM 1		XY-Symmetry	H23P	H24P	1	4	1	1	1

Foundation

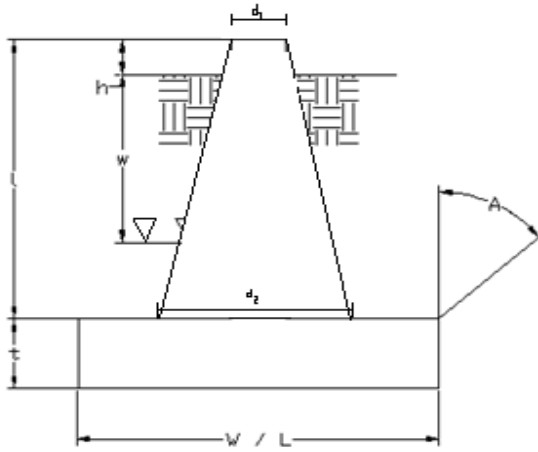
Design Loads (Factored)

Compression/Leg:	448.85	k
Uplift/Leg:	309.14	k
Shear/Leg:	66.73	k

Face Width @ Top of Pier (d_1):	4.00	ft
Face Width @ Bottom of Pier (d_2):	7.50	ft
Total Length of Pier (l):	7.25	ft
Height of Pedestal Above Ground (h):	0.50	ft
Width of Pad (W):	21.50	ft
Length of Pad (L):	21.50	ft
Thickness of Pad (t):	2.50	ft
Water Table Depth (w):	99.00	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Soil (Above Water Table):	131.0	pcf
Unit Weight of Soil (Below Water Table):	68.6	pcf
Friction Angle of Uplift (A):	30	°
Ultimate Compressive Bearing Pressure:	48200	psf
Ultimate Skin Friction:	0	psf

Volume Pier (Total):	247.10	ft ³
Volume Pad (Total):	1155.63	ft ³
Volume Soil (Total):	4120.07	ft ³
Volume Pier (Buoyant):	0.00	ft ³
Volume Pad (Buoyant):	0.00	ft ³
Volume Soil (Buoyant):	0.00	ft ³
Weight Pier:	37.07	k
Weight Pad:	173.34	k
Weight Soil:	539.73	k
Uplift Skin Friction:	0.00	k

Site No.:	88008
Engineer:	AAV
Date:	03/29/18
Carrier:	Sprint Nextel



Uplift Check

ϕ_s Uplift Resistance (k)	Ratio	Result
562.60	0.55	OK

Axial Check

ϕ_s Axial Resistance (k)	Ratio	Result
16710.34	0.03	OK

Anchor Bolt Check

Bolt Diameter (in)	2.25
# of Bolts	6
Steel Grade	A36
Steel Fy	36
Steel Fu	58
Detail Type	B

Usage Ratio	Result
0.45	OK



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

December 18, 2018

Ray Perry
Airosmith Development Inc.
32 Clinton Street
Saratoga Springs, NY 12866

RE: **EM-SPRINT-008-181207** – Sprint Spectrum, LP notice of intent to modify an existing telecommunications facility located at 9 Meyers Road (a/k/a 93 Old Amity Road), Bethany, Connecticut.

Dear Mr. Perry:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on December 7, 2018.

According to Section 16-50j-71 of the Regulations of Connecticut State Agencies, "...any modification, as defined in Section 16-50j-2a of the Regulations of Connecticut State Agencies, to an existing tower site, except as specified in Sections 16-50j-72 and 16-50j-88 of the Regulations of Connecticut State Agencies, may have a substantial adverse environmental effect."

Staff has reviewed this exempt modification request for completeness and has identified a deficiency in the Post-Modification Structural Analysis Report provided with the filing. The Post-Modification Structural Analysis Report prepared by American Tower Corporation and dated October 18, 2018 is not stamped by a professional Engineer duly licensed in the State of Connecticut.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that Airosmith Development provide a Post-Modification Structural Analysis Report for the facility that is signed and stamped by a Professional Engineer duly licensed in the State of Connecticut, on or before January 25, 2019. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to January 25, 2019.

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

Melanie Bachman
Executive Director

MAB/FOC/in

c: The Honorable Derrylyn Gorski, First Selectman, Town of Bethany
Isabel Kearns, Zoning Enforcement Officer, Town of Bethany

