

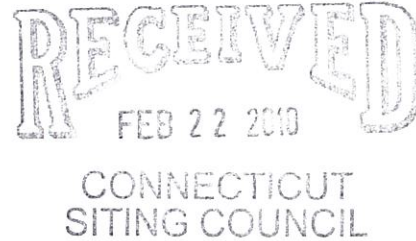
30 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

ORIGINAL

February 22, 2010

Via Hand Delivery

S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



Re: **Notice of Exempt Modification- Antenna Swap
93 Old Amity Road, Bethany, Connecticut**

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains wireless telecommunications antennas at the 180-foot level on the existing 338-foot tower at the above-referenced address. The tower and underlying property are owned by American Tower Corporation. The Council approved Cellco's use of the existing facility in 2000 through its approval of TS-VER-008-001113. Cellco now intends to modify its installation by replacing six (6) PCS antennas with three (3) model MG D3-800T0 PCS antennas and three (3) model P65-16-XL-2 LTE antennas, all at the same 180-foot level on the tower. Attached behind Tab 1 are the specifications for the proposed replacement antennas.



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Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Walter G. Briggs, First Selectman for the Town of Bethany.

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

1. The proposed modifications will not result in any increase in the overall height of the existing structures. Cellco's replacement antennas will all be located at the 180-foot level on the existing 338-foot tower.

2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

ROBINSON & COLE^{LLP}

S. Derek Phelps
February 22, 2010
Page 2

3. The proposed modifications will not increase noise levels at the facility by six decibels or more.

4. The operation of the replacement antennas will not increase radio frequency (RF) power density levels at the facility to a level at or above the Federal Communications Commission (FCC) adopted safety standard. A cumulative power density table for Cellco's modified facility is included behind Tab 2.

Also attached is a Structural Analysis Report and tower modification plans confirming that the tower, with certain modifications, and the tower foundation can support Cellco's proposed antenna modifications. (See Tab 3).

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Walter G. Briggs, Bethany First Selectman
Sandy M. Carter





1710-2170 MHz

Model # MG D3-800TX

XPoI GSM1800+PCS & UMTS Panel Antenna

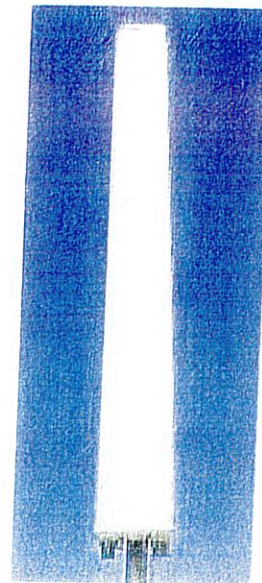
Beamwidth: H 65°/V 6.5°

Gain: 16.15 dBd/18.25 dBi

Length: 52.7 in

Electrical Specifications

Antenna model	MG D3-800TX		
Frequency range (MHz)	1710-1880	1850-1990	1920-2170
Impedance	50 ohms		
VSWR	1.4		
Polarization	±45°		
Isolation between ports (dB)	30		
Average gain (dBd/dBi)	15.7/17.8	15.9/18	16.15/18.25
Horizontal beamwidth (deg)	65°±5°		
Vertical beamwidth (deg)	6.5°±0.5°	6.3°±0.5°	6.3°±0.5°
Electrical tilt (deg)	Fixed 0°-14°		
Upper sidelobe suppression (dB)	18		
Front-to-back ratio (dB) @180°±30°	30		
Polarization isolation (dB) @3 dB beamwidth	20		
Maximum power per input (w)	250		
Intermodulation products (dBc)	-150		
Connectors	2 X 7/16 female		
Connector position	Antenna bottom		



Mechanical & Environmental Specifications

Dimensions in (mm)	52.7 x 6.3 x 3.5 (1380 x 160 x 90)
Survival wind speed mph (kph)	124 (200)
Front windload lbs (N) @100 mph/160 kph	74 (335)
Lateral windload lbs (N) @100 mph/160 kph	42 (188)
Antenna weight lbs (kg)	15 (7)
Clamps weight lbs (kg)	7.7 (3.5)
Mast mounting in (cm)	2.0 to 5.3 (50 to 135)
Radome color	Gray
Grounding	All metallic parts DC grounded
Temperature range F (°C)	-67° to 140° (-55 to +60°)
Humidity	100%

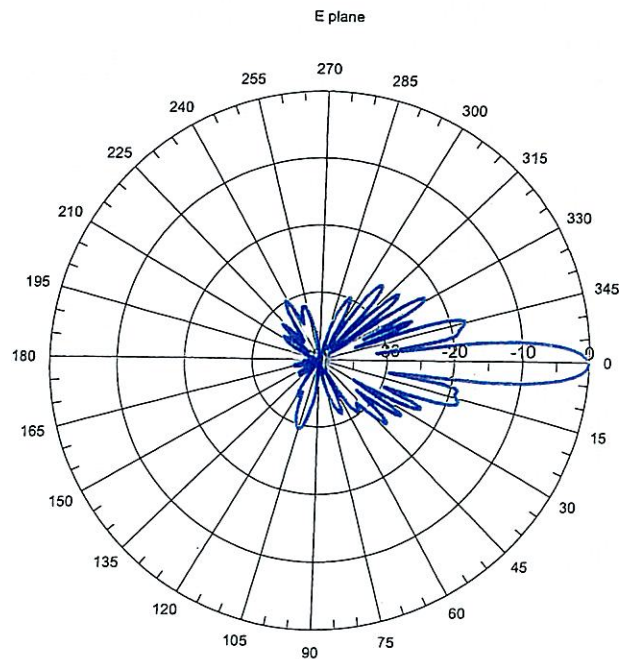
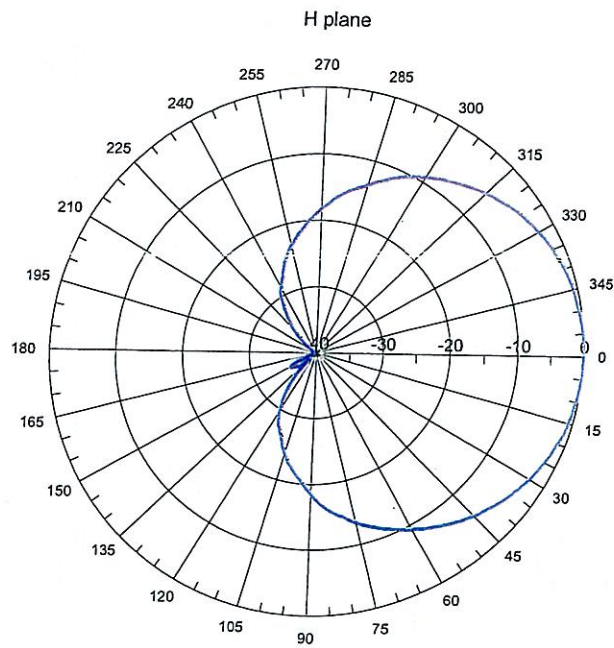
Shipping Specifications

Dimensions in (mm)	64 x 8.8 x 6.9 (1630 x 225 x 175)
Weight lbs (kg)	27 (12.5)
Material	Cardboard and foam

1710-2170 MHz

Model # MG D3-800TX

XPoI GSM1800+PCS & UMTS Panel Antenna



P65-16-XL -2

Very Low Broadband Antennas

POLARIZATION: Dual linear $\pm 45^\circ$
 FREQUENCY (MHz): 698-894
 HORIZONTAL BEAM WIDTH ($^\circ$): 65
 GAIN (dBi/dBd): 16.0/13.9
 TILT: 2
 LENGTH: 72"

ELECTRICAL SPECIFICATIONS*

Frequency range (MHz)	698-894		
Frequency band (MHz)	698-806		806-894
Gain (dBi/dBd)	15.5/13.4		16.0/13.9
Polarization			
Nominal Impedance (Ω)			
VSWR			
Horizontal beam width, -3 dB ($^\circ$)	68		65
Vertical beam width, -3 dB ($^\circ$)	10.5		9.5
Electrical down tilt ($^\circ$)			
Side lobe suppression, vertical 1st upper (dB)	> 15		> 15
Isolation between inputs (dB)	> 30		> 30
Tracking, horizontal plane $\pm 60^\circ$ (dB)	< 2		< 2
First null fill (dB)	-		-
Vertical beam squint ($^\circ$)	< 0.5		< 0.5
Front to back ratio (dB)	> 30		> 30
Front to back ratio, total power (dB)	> 25		> 25
Cross polar discrimination (XPD) 0° (dB)	> 15	> 15	
Cross polar discrimination (XPD) $\pm 60^\circ$ (dB)	> 10		> 10
Far field coupling			
IM3, 2xTx@43dBm (dBc)	-153		
IM7, 2xTx@43dBm (dBc)			
Power handling, average per input (W)			
Power handling, average total (W)			

MECHANICAL SPECIFICATIONS*

Connector	2 X 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm (ft)	72" x 12" x 5" (1829 x 305 x 125)
Mounting	Pre-mounted Tilt Brackets
Weight, with brackets, kg (lbs)	44 (20)
Weight, without brackets, kg (lbs)	33 (15)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N)	1380
Maximum operational wind speed, m/s (mph)	100 (45)
Survival wind speed, m/s (mph)	125 (55)
Lightning protection	DC Ground
Radome material	PVC
Radome colour	Light Grey
Package size, HxWxD, mm (ft)	82" x 16" x 10" (2082 x 400 x 255)
Shipping weight, kg (lbs)	55 (25)
RET	N/A
Brackets	7256.00, 7454.00, 2210.00

*All specifications subject to change without notice. Please contact your Powerwave representative for complete performance data.

ANTENNA PATTERNS*

For detailed patterns visit <http://www.powerwave.com/rpa/>.

	General	Power	Density			
Site Name: Bethany Tower Height: Verizon @ 180Ft.						
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.
*Cingular GSM	2	654	165	0.0173	1900	1.0000
*Cingular UMTS	1	500	165	0.0066	880	0.5867
*Pocket	3	631	100	0.0681	2130	1.0000
*Indus'l Commens			345	0.0091	855	0.5700
*Sprint	11	122	240	0.0084	1900	1.0000
*Nextel	9	100	250	0.0091	851	0.5673
*T-Mobile	8	137	220	0.0091	1935	1.0000
*Rescue 21	5	158.5	275	0.0038	165.313	0.2000
*Rescue 21	1	158.5	310	0.0006	412.975	0.2753
Verizon	3	387	180	0.0129	1970	1.0000
Verizon	9	210	180	0.02097472	869	0.579333
Verizon	1	605	180	0.00671413	757	0.497333
						22.95%
* Source: Siting Council						



Structural Analysis Report

Structure : 337.5 ft AT&T Tag Type 'H' Self Supported Tower
ATC Site Name : Bethany CT, CT
ATC Site Number : 88008
Proposed Carrier : Verizon
Carrier Site Name : Bethany, CT
Carrier Site Number : N/A
County : New Haven
Eng. Number : 44269921
Date : December 1, 2009
Usage : 118%

Submitted by:
Zachary A. Medoff, E.I.
Project Engineer

American Tower Engineering Services
400 Regency Forest Drive
Cary, NC 27518
Phone: 919-468-0112



12/7/09

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 337.5 ft AT&T Tag Type 'H' Self Supported Tower located at 93 Old Amity Road, Bethany, CT 06524, New Haven County (ATC site #88008). Tower information was taken from an analysis by Communication Structures Engineering, Inc. (ATC Eng. #73115244, dated November 18, 2002).

Analysis

The tower was analyzed using Power Line Systems, Inc. software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition.

Basic Wind Speed: 85 mph (Fastest Mile)

Radial Ice: 74 mph (Fastest Mile) w/ 1/2" ice

Code: ANSI/TIA/EIA-222-F / 2003 IBC w/ 2005 CT Supplement & 2008 CT Amendments

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
338.0	1	Rohde & Schwarz ADD090	Platform	(2) 7/8	US Treasury
320.0	-	-	Catwalk	-	-
310.0	1	Sinclair SC381-HL	Sector Frame	(1) 7/8	US Treasury
	1	Sinclair SC281-L		(1) 7/8	
275.0	1	Sinclair SC281-L	Sector Frame	(1) 7/8	Sprint Nextel
250.0	12	Decibel DB844H90E-XY	Sector Frames	(12) 1 5/8	
240.0	9	DAPA 58000X	Sector Frames	(9) 1 5/8	-
237.0	-	-	Working Platform	-	
220.0	3	RFS APX16PV-16PVL-E-00	Sector Frames	(12) 1 5/8	T-Mobile
	6	Remec S20057A1		(1) 0.315	
	6	RCU			
180.0	6	Decibel DB844H90E-A	Sector Frames	(12) 1 5/8	Verizon
165.0	6	Allgon 7770.00	Sector Frames	(12) 1 5/8	AT&T Mobility
	6	Powerwave LGP21401			
150.0	-	-	Working Platform	-	-
125.0	-	-	Working Platform	-	-
100.0	3	RFS APXV18-206517S-C	Pipes	(6) 1 5/8	Youghiogheny
48.0	1	GPS	Leg	(1) 1/2	Sprint Nextel
20.0	1	GPS	Leg	(1) 1/2	
15.0	1	Nortel NTGB01MA	Leg	(1) 7/8	Youghiogheny

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
180.0	3	Powerwave P65-16-XL-2	Sector Frames	-	Verizon
	3	Ryma MGD3-800T0			

Results

The maximum structure usage is: 118%

Leg Forces	Current Analysis Reactions
Uplift (Kips)	344.5
Axial (Kips)	456.5

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.

Conclusion

Based on the analysis results, the structure **does not meet** the requirements per ANSI/TIA/EIA-222-F and 2003 IBC with 2005 CT Supplement and 2008 CT Amendments. The tower and foundation can support the existing and proposed equipment after the modifications listed below are completed:

- Reinforce outer lower diagonals at the top of section 3 (from 68' to 75')

If you have any questions or require additional information, please call 919-465-6535.

Standard Conditions

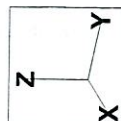
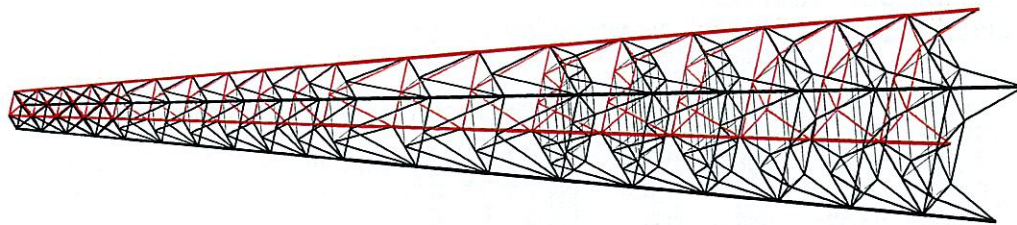
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Engineering Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Engineering Services is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.



Project Name 88008 - Bethany CT, CT
Project Notes: 337.5 ft AT&T Tag Type "H" Self-Supported Tower
Date run 11:15:32 AM Friday, December 04, 2009
by Tower Version 10.20
Licensed to American Tower Corp.

Successfully performed nonlinear analysis

The model has 0 warnings.

Member check option: TIA/EIA 223-F

Connection rupture check: Not Checked

Crossing diagonal check: Fixed

*** Analysis Results:

Maximum element usage is 117.84% for Angle "LD 13X" in load case "W -45" NG

Summary of Joint Support Reactions For All Load Cases:

Load Case	Joint Label	Long. Force (kips)	Trans. Force (kips)	Vert. Force (kips)	Long. Moment (ft-k)	Trans. Moment (ft-k)	Vert. Moment (ft-k)	Bending Moment (ft-k)	Found. Usage %
W 0	OP	-43.63	-23.50	306.27	49.54	-0.42	-4.29	-2.42	4.31 0.00
W 0	OX	-42.69	24.06	303.67	49.01	0.25	-4.14	2.42	4.15 0.00
W 0	OXY	-33.42	-14.10	-194.98	36.27	0.48	-4.70	2.20	4.72 0.00
W 0	OY	-34.22	21.51	-195.73	36.80	-0.35	-4.4	-2.19	4.86 0.00
W 180	OP	34.21	13.42	-194.05	36.75	-0.35	4.88	2.19	4.89 0.00
W 180	OX	33.42	-13.98	-193.43	36.22	0.48	4.73	-2.20	4.75 0.00
W 180	OXY	42.70	30.94	302.12	48.95	0.25	4.17	-2.43	4.18 0.00
W 180	OY	43.61	-23.38	304.59	49.48	-0.42	4.32	2.43	4.34 0.00
W 45	OP	-49.96	-50.10	451.99	70.75	3.31	-3.28	0.00	4.66 0.00
W 45	OX	-20.88	-10.74	54.17	23.48	3.87	-3.24	3.63	5.05 0.00
W 45	OXY	-41.08	-41.00	-340.40	58.04	3.97	-3.88	-0.00	5.62 0.00
W 45	OY	-10.66	-20.75	53.47	23.33	3.23	-3.84	-3.63	5.02 0.00
W -45	OP	-21.55	11.14	56.29	24.26	-3.99	-3.34	-3.63	5.21 0.00
W -45	OX	-49.29	50.49	-459.87	70.56	-3.43	3.17	-0.00	4.67 0.00
W -45	OXY	-10.11	20.36	53.75	22.74	-3.14	-3.74	3.64	4.88 0.00
W -45	OY	-41.63	40.60	-340.68	58.15	-3.89	-4.09	0.01	5.64 0.00
W 90	OP	-23.43	-43.70	305.47	49.62	4.31	0.44	2.43	4.34 0.00
W 90	OX	13.47	-34.30	-195.24	36.85	4.87	0.35	2.19	4.88 0.00
W 90	OXY	-14.12	-33.33	-194.78	36.20	4.68	-0.48	-2.20	4.71 0.00
W 90	OY	24.08	-42.56	302.77	48.90	4.13	-0.23	-2.42	4.13 0.00
W -90	OP	13.40	34.29	-194.26	36.82	-4.89	0.35	-2.19	4.80 0.00
W -90	OX	-23.36	43.74	305.49	49.59	-4.33	0.44	-2.43	4.35 0.00
W -90	OXY	24.01	42.56	301.91	48.87	-4.15	-0.23	2.42	4.15 0.00
W -90	OY	-14.05	33.33	-193.92	36.17	-4.70	0.48	2.20	4.73 0.00
W 0 Ice	OP	-39.01	-21.37	290.00	44.48	-1.57	-2.53	-2.10	2.98 0.00
W 0 Ice	OX	-38.11	21.89	287.07	43.95	1.41	-2.38	2.09	2.77 0.00
W 0 Ice	OXY	-28.46	-11.67	-148.96	30.76	1.62	-2.30	1.93	2.54 0.00
W 0 Ice	OY	-29.19	11.15	-149.27	31.25	-1.51	-5.44	-1.92	5.64 0.00
W 180 Ice	OP	39.01	21.89	-146.97	31.18	-1.51	5.48	1.93	5.68 0.00
W 180 Ice	OX	38.11	-21.89	-148.82	30.70	1.62	-5.54	-1.94	5.58 0.00
W 180 Ice	OXY	38.11	21.72	284.93	43.87	1.41	-4.3	-2.10	2.81 0.00
W 180 Ice	OY	39.01	-21.19	287.71	44.40	-1.57	2.57	2.10	3.01 0.00
W 45 Ice	OP	-45.73	-45.88	426.00	64.78	1.79	-1.76	0.00	2.51 0.00
W 45 Ice	OX	-19.47	-9.14	68.14	21.51	1.70	-1.73	3.30	5.01 0.00
W 45 Ice	OXY	-36.37	-36.29	-284.52	51.38	4.78	-4.79	-0.00	6.77 0.00
W 45 Ice	OY	-9.07	-19.33	68.23	21.35	1.72	-4.67	-3.30	4.98 0.00
W -45 Ice	OP	-9.11	9.51	71.62	22.28	-1.83	-4.83	-3.30	5.17 0.00
W -45 Ice	OX	-45.06	46.24	423.52	64.57	-1.92	-1.66	-0.01	2.53 0.00
W -45 Ice	OXY	-8.58	18.96	68.09	20.82	-1.65	-4.57	3.30	4.86 0.00
W -45 Ice	OY	-36.85	35.92	-284.38	51.46	4.71	-4.89	-0.01	6.79 0.00
W 90 Ice	OP	-21.29	-39.16	290.21	44.57	2.55	1.60	2.10	3.01 0.00
W 90 Ice	OX	11.07	-29.26	-148.57	31.29	5.46	1.51	1.92	5.67 0.00
W 90 Ice	OXY	-11.68	-28.39	-148.75	30.70	5.59	-1.62	-1.93	5.53 0.00
W 90 Ice	OY	21.90	-37.97	285.96	43.83	2.37	-1.59	-2.08	7.5 0.00
W -90 Ice	OP	10.97	29.26	-147.18	31.24	-5.49	1.50	-1.92	5.69 0.00
W -90 Ice	OX	-21.18	39.16	288.82	44.52	-2.58	1.60	-2.10	3.03 0.00
W -90 Ice	OXY	21.80	37.97	284.73	43.78	-2.40	-1.39	1.10	2.77 0.00
W -90 Ice	OY	-11.59	28.39	-147.52	30.66	-5.31	-1.62	1.94	5.55 0.00

Summary of Joint Support Reactions For All Load Cases in Direction of Leg:

Load Case	Support Origin	Joint	Member	Leg Dir.	Long. Force (kips)	Trans. Force (kips)	Residual Shear (kips)	Residual Shear (kips)	Residual Shear (kips)	Total Long. (kips)	Total Trans. (kips)	Total Vert. (kips)
W 0	OP	IP	L 1P	309.255	24.786	24.881	24.465	-43.61	-23.50	306.27		
W 0	OX	IX	L 1X	306.648	24.186	24.252	23.715	-42.69	24.06	303.67		
W 0	OXY	IXY	L 1XY	-197.183	21.266	21.315	21.229	-33.42	-14.10	-194.98		
W 0	OY	IY	L 1Y	-197.843	21.974	22.022	21.983	-34.22	21.51	-195.73		
W 180	OP	IP	L 1P	-196.264	22.071	22.119	-22.081	34.21	13.42	-194.05		
W 180	OX	IX	L 1X	-195.628	21.363	21.412	-21.329	33.42	-13.98	-193.43		
W 180	OXY	IXY	L 1XY	305.092	22.777	22.824	-23.814	42.70	30.94	302.12		
W 180	OY	IY	L 1Y	307.576	24.886	24.951	-18.806	-41.08	-41.00	-340.40		
W 45	OP	IP	L 1P	456.464	30.683	30.803	21.714	-49.96	-50.10	451.99		
W 45	OX	IX	L 1X	454.588	22.489	22.489	17.498	-20.88	-10.74	54.17		
W 45	OXY	IXY	L 1XY	-344.189	27.843	27.952	19.724	49.29	50.49	449.87		
W 45	OY	IY	L 1Y	53.891	22.338	22.339	14.001	-10.66	-20.75	53.47		
W -45	OP	IP	L 1P	56.720	23.236	23.237	-18.034	-21.55	11.14	56.29		
W -45	OX	IX	L 1X	454.336	30.885	30.885	21.178	-49.29	50.49	-459.87		
W -45	OXY	IXY	L 1XY	34.176	21.693	21.694	13.474	-10.11	20.36	53.75		
W -45	OY	IY	L 1Y	-344.478	27.932	28.040	-20.332	-41.63	40.60	-340.68		
W 90	OP	IP	L 1P	309.450	24.691	24.966	4.278	-23.43	-43.70	305.47		
W 90	OX	IX	L 1X	-197.453	22.086	22.134	-1.270	13.47	-34.30	-195.24		
W 90	OXY	IXY	L 1XY	-196.977	21.198	21.247	1.942	-14.12	-33.33	-194.78		
W 90	OY	IY	L 1Y	305.745	24.125	24.192	-5.152	24.08	-42.56	302.77		
W -90	OP	IP	L 1P	-196.470	22.140	22.188	-1.257	13.40	34.29	-194.26		
W -90	OX	IX	L 1X	308.480	24.950	25.015	4.265	-23.36	43.74	305.49		
W -90	OXY	IXY	L 1XY	304.886	24.176	24.243	-5.137	24.01	42.56	301.91		
W -90	OY	IY	L 1Y	-196.118	21.253	21.302	1.927	-14.05	33.33	-193.92		
W 0 Ice	OP	IP	L 1P	292.636	21.086	21.140	20.889	-39.01	-21.37	290.00		
W 0 Ice	OX	IX	L 1X	289.690	20.496	20.551	20.168	-38.11	21.89	287.07		
W 0 Ice	OXY	IXY	L 1XY	-150.879	19.384	19.351	19.155	-28.46	-11.67	-148.96		
W 0 Ice	OY	IY	L 1Y	-151.199	19.897	19.943	19.859	-29.19	11.15	-149.27		
W 180 Ice	OP	IP	L 1P	-148.902	20.028	20.074	-19.994	29.18	10.97	-146.97		
W 180 Ice	OX	IX	L 1X	-148.142	19.384	19.384	-20.305	38.11	21.72	-194.82		
W 180 Ice	OXY	IXY	L 1XY	287.552	20.624	20.679	-21.032	39.01	-21.19	287.71		
W 180 Ice	OY	IY	L 1Y	290.340	21.222	21.275	19.109	-45.73	-45.88	426.00		
W 45 Ice	OP	IP	L 1P	430.948	27.125	27.125	15.150	-19.47	-9.14	68.14		
W 45 Ice	OX	IX	L 1X	69.513	20.269	20.269	13.465	-10.66	-20.75	53.47		
W 45 Ice	OXY	IXY	L 1XY	-287.943	24.129	24.230	18.585	-36.37	-36.29	-284.52		
W 45 Ice	OY	IY	L 1Y	62.007	20.116	20.116	13.333	-9.07	-19.33	68.23		
W -45 Ice	OP	IP	L 1P	72.004	21.004	21.004	-15.667	-20.14	9.51	71.62		
W -45 Ice	OX	IX	L 1X	427.561	27.035	27.141	18.591	-45.06	46.24	423.52		
W -45 Ice	OXY	IXY	L 1XY	68.471	19.524	19.524	12.840	-8.58	18.96	68.09		
W -45 Ice	OY	IY	L 1Y	-287.811	26.208	26.331	19.078	-36.85	35.92	-284.38		
W 90 Ice	OP	IP	L 1P	292.845	21.202	21.255	3.151	-21.29	-39.16	290.21		
W 90 Ice	OX	IX	L 1X	-150.502	20.013	20.059	-1.787	11.07	-29.26	-148.57		
W 90 Ice	OXY	IXY	L 1XY	-150.671	19.190	19.237	2.398	-11.68	-28.39	-148.75		
W 90 Ice	OY	IY	L 1Y	288.575	20.438	20.493	-4.027	21.90	-37.97	285.96		
W -90 Ice	OP	IP	L 1P	-149.112	20.089	20.135	-1.766	10.97	29.26	-147.18		
W -90 Ice	OX	IX	L 1X	291.456	21.284	21.337	3.130	-21.18	39.16	288.82		
W -90 Ice	OXY	IXY	L 1XY	287.343	20.513	20.568	-4.004	21.80	37.97	284.73		
W -90 Ice	OY	IY	L 1Y	-149.439	19.269	19.316	2.365	-11.59	28.39	-147.52		

Overturning Moment Summary For All Load Cases:

Load Case	Transverse Moment (ft-k)	Longitudinal Moment (ft-k)	Resultant Moment (ft-k)
W 0	47.265	25610.364	25616.410
W 180	47.302	-25644.971	25645.015
W 45	20262.432	20298.082	26680.626
W -45	-22168.123	-20298.134	-24614.254
W 90	25574.756	82.925	25574.881
W -90	-25480.611	82.952	-25480.746
W 0 Ice	67.178	22402.168	22402.268
W 180 Ice	67.226	-22175.432	22175.534
W 45 Ice	18161.775	18208.130	25717.427
W -45 Ice	-18027.596	-18208.349	-25623.001
W 90 Ice	22355.850	113.547	22356.199
W -90 Ice	-22221.789	113.584	-22222.080

EIA Sections Information:

Section Label	Top E (ft)	Bottom E (ft)	Joint Number	Top Width (ft)	Bottom Width (ft)	Gross Area (sq ft)	Face Adj Factor	Adj Area (sq ft)	Load Factor
328.9-337.5	337.500	328.917	8	20.00	10.07	81.85	1.1220	1.1220	1.346
328.9-328.9	328.917	328.334	8	16.10	10.71	91.06	1.1610	1.1610	1.393</

250.0-262.5	262.500	250.000	16	24	18.38	19.94	239.45	1.2200	1.2200	1.463
237.5-250.0	250.000	237.500	16	24	19.94	21.50	258.98	1.2350	1.2350	1.471
225.0-237.5	237.500	225.000	16	24	21.50	23.06	278.52	1.2310	1.2310	1.477
200.0-225.0	225.000	200.000	16	24	23.06	26.19	615.62	1.2630	1.2630	1.515
175.0-200.0	200.000	175.000	16	24	26.19	31.31	615.62	1.2720	1.2720	1.526
150.0-175.0	175.000	150.000	20	32	31.31	32.44	771.88	1.2860	1.2860	1.544
125.0-150.0	150.000	125.000	36	76	32.44	35.56	850.00	1.2290	1.2290	1.474
100.0-125.0	125.000	100.000	36	76	35.56	38.69	928.13	1.2260	1.2260	1.472
75.0-100.0	100.000	75.000	32	68	38.69	41.81	1084.38	1.2310	1.2310	1.478
50.0-75.0	75.000	50.000	24	52	41.81	44.94	1084.38	1.3370	1.3370	1.604
25.0-50.0	50.000	25.000	24	52	44.94	48.06	1162.50	1.3240	1.3240	1.589
0.000-25.0	25.000	0.000	20	40	48.06	51.19	1240.63	1.3200	1.3200	1.584

*** Overall summary for all load cases - Usage = Maximum Stress / Allowable Stress
Printed capacities are for all load cases. Allowable stress increases for wind load cases.
Printed capacities do not include the strength factor entered for each load case.

Group Summary (Compression Portion):

Group Label	Group Desc	Angle Type	Angle Size	Steel Strength	Max Usage	Max Usage In Control	Comp. Force	Comp. Force Capacity	L/R Comp. Capacity	Conn. Bearing Capacity	Conn. Bearing Capacity	CONN. RLY	CONN. RLY	CONN. RLY	L/R Length	Curve No.	No. Of Bolts	No. Of Members
				(ksi)	%	(kips)	(kips)	(kips)	(kips)	(kips)	(kips)	(kips)	(kips)	(kips)	(ft)			
Leg S1	L 8" x 8" x 1"	SAE	8X8X1	36.0	69.91	69.91	L 1P	-389.465	W 45	269.403	0.000	0.000	0.281	0.281	54.29	25.097	1	0
Leg S2	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	67.99	67.92	L 2P	-346.720	W 45	238.102	0.000	0.000	0.281	0.281	53.94	25.097	1	0
Leg S3	L 8" x 8" x 0.75"	SAE	8X8X0.75	36.0	68.49	64.33	L 3P	-302.771	W 45	206.243	0.000	0.000	0.281	0.281	53.60	25.097	1	0
Leg S4	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	64.13	64.13	L 4P	-256.992	W 45	173.333	0.000	0.000	0.281	0.281	54.29	25.097	1	0
Leg S5	L 8" x 8" x 1"	SAE	8X8X1	36.0	59.38	59.38	L 5P	-213.355	W 45	149.483	0.000	0.000	0.281	0.281	54.29	25.097	1	0
Leg S6	L 8" x 8" x 1"	SAE	8X8X1	36.0	47.85	47.85	L 6P	-171.929	W 45	126.483	0.000	0.000	0.281	0.281	54.29	25.097	1	0
Leg S7	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	53.46	53.46	L 7P	-142.727	W 45	109.518	0.000	0.000	0.333	0.333	63.94	25.097	1	0
Leg S8	L 8" x 8" x 0.75"	SAE	8X8X0.75	36.0	48.68	48.68	L 8P	-126.866	W 45	95.459	0.000	0.000	0.333	0.333	63.94	25.097	1	0
Leg S9	L 8" x 8" x 0.75"	SAE	8X8X0.75	36.0	36.66	36.66	L 9P	-95.542	W 45	72.002	0.000	0.000	0.333	0.333	63.94	25.097	1	0
Leg S10	L 6" x 6" x 0.875"	SAE	6X6X0.88	36.0	36.43	36.43	L 10P	-80.370	W 45	65.451	0.000	0.000	0.500	0.500	64.35	12.549	1	0
Leg S11	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	35.02	35.02	L 11P	-72.002	W 45	61.014	0.000	0.000	0.500	0.500	64.35	12.549	1	0
Leg S12	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	29.13	29.13	L 12P	-55.739	W 45	51.516	0.000	0.000	0.500	0.500	64.35	12.549	1	0
Leg S13	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	30.68	30.68	L 13P	-44.871	W 45	45.685	0.000	0.000	0.500	0.500	63.81	12.549	1	0
Leg S14	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	23.60	23.60	L 14P	-33.518	W 45	38.518	0.000	0.000	0.500	0.500	63.81	12.549	1	0
Leg S15	L 6" x 6" x 0.4375"	SAE	6X6X0.44	36.0	21.18	21.18	L 15P	-24.447	W 45	28.793	0.000	0.000	0.500	0.500	63.27	12.549	1	0
Leg S16	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	19.99	19.99	L 16P	-19.194	W 45	22.002	0.000	0.000	0.500	0.500	62.11	10.207	1	0
Leg S17	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	16.43	12.43	L 17P	-11.930	W 45	16.433	0.000	0.000	0.500	0.500	62.11	10.207	1	0
Leg S18	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	8.23	8.23	L 18P	-6.024	W 45	8.598	0.000	0.000	0.500	0.500	52.01	8.616	1	0
Leg S19	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	3.63	3.63	L 19P	-2.654	W 45	4.898	0.000	0.000	0.500	0.500	52.01	8.616	1	0
Diag S1	B/B 13"x4"x0.25"	DAS	4X3X0.25	36.0	52.68	52.68	D 1P	-44.143	W 90	62.843	0.000	0.000	0.333	0.333	98.41	22.551	1	0
Diag S2	B/B 13"x4"x0.25"	DAS	4X3X0.25	36.0	71.30	71.30	D 2P	-43.057	W 90	45.294	0.000	0.000	0.333	0.333	96.63	21.646	1	0
Diag S3	B/B 13"x4"x0.25"	DAS	4X3X0.25	36.0	84.84	84.84	D 3P	-45.596	W 90	40.402	0.000	0.000	0.333	0.333	100.80	20.789	1	0
Diag S4	B/B 13"x4"x0.25"	DAS	4X3X0.25	36.0	81.11	81.11	D 4P	-44.339	W 90	41.001	0.000	0.000	0.333	0.333	99.40	21.125	1	0
Diag S5	B/B 12.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	93.94	93.94	D 11P	-42.449	W 180	20.825	0.000	0.000	0.300	0.300	140.35	18.941	6	0
Diag S6	B/B 12.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	97.34	97.34	D 14P	-27.028	W 180	20.825	0.000	0.000	0.300	0.300	140.35	18.941	6	0
Diag S7	B/B 12.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	81.78	81.78	D 16P	-23.558	W 180	21.605	0.000	0.000	0.300	0.300	140.35	18.941	6	0
Diag S8	B/B 12.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	74.29	74.29	D 18P	-22.154	W 180	21.605	0.000	0.000	0.300	0.300	140.35	18.941	6	0
Diag S9	B/B 12.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	60.18	60.18	D 20P	-20.127	W 180	15.428	0.000	0.000	0.300	0.300	140.35	18.941	6	0
Diag S10	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	48.94	48.94	D 22P	-18.508	W 180	14.104	0.000	0.000	0.500	0.500	166.44	16.704	6	0
Diag S11	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	39.81	39.81	D 24P	-16.934	W 180	12.946	0.000	0.000	0.500	0.500	166.44	16.704	6	0
Diag S12	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	31.84	31.84	D 26P	-15.163	W 180	11.163	0.000	0.000	0.500	0.500	166.44	16.704	6	0
Diag S13	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	24.69	24.69	D 28P	-13.602	W 180	9.602	0.000	0.000	0.500	0.500	166.44	16.704	6	0
Diag S14	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	19.46	19.46	D 30P	-11.758	W 180	8.259	0.000	0.000	0.500	0.500	166.44	16.704	6	0
Diag S15	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	14.62	14.62	D 32P	-10.244	W 180	7.244	0.000	0.000	0.500	0.500	166.44	16.704	6	0
Diag S16	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	26.89	26.89	D 34P	-8.982	W 90	12.390	0.000	0.000	0.500	0.500	188.19	14.663	6	0
Diag S17	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	26.89	26.89	D 36P	-8.982	W 90	12.390	0.000	0.000	0.500	0.500	188.19	14.663	6	0
Diag S18	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	18.70	18.70	D 38P	-7.347	W 90	13.784	0.000	0.000	0.500	0.500	188.19	14.663	6	0
Diag S19	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	14.62	14.62	D 40P	-6.128	W 90	14.620	0.000	0.000	0.500	0.500	188.19	14.663	6	0
Diag S20	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	10.42	10.42	D 42P	-4.582	W 90	15.216	0.000	0.000	0.500	0.500	188.19	14.663	6	0
Horiz 1	B/B 13"x3"x0.25"	DAL	4X3X0.25	36.0	74.58	74.58	H 2P	-38.022	W 90	27.655	0.000	0.000	0.500	0.500	112.65	24.031	1	0
Horiz 2	B/B 13"x3"x0.25"	DAL	3X2.5X0.25	36.0	91.48	91.48	H 4P	-34.973	W 90	24.672	0.000	0.000	0.500	0.500	112.65	24.031	1	0
Horiz 3	B/B 13"x3"x0.25"	DAL	3X2.5X0.25	36.0	82.98	82.98	H 6P	-32.865	W 90	24.672	0.000	0.000	0.500	0.500	112.65	24.031	1	0
Horiz 4	B/B 13"x3"x0.25"	DAL	3X2.5X0.25	36.0	94.98	94.98	H 8P	-33.520	W 90	24.127	0.000	0.000	0.500	0.500	140.35	18.941	6	0
Horiz 5	B/B 13"x3"x0.25"	DAL	3X2.5X0.25	36.0	84.47	84.47	H 10P	-30.289	W 90	26.893	0.000	0.000	0.500	0.500	140.35	18.941	6	0
Horiz 6	B/B 13"x3"x0.25"	DAL	3X2.5X0.25	36.0	88.02	88.02	H 12P	-27.006	W 180	23.012	0.000	0.000	0.500	0.500	137.30	10.613	6	0
Horiz 7	B/B 13"x3"x0.25"	DAL	3X2.5X0.25	36.0	63.06	63.06	H 14P	-22.798	W 180	21.606	0.000	0.000	0.500	0.500	137.30	10.613	6	0
Horiz 8	B/B 13"x3"x0.25"	DAL	3X2.5X0.25	36.0	42.71	42.71	H 16P	-10.148	W 180	17.820	0.000	0.000	0.500	0.500	166.26	11.034	6	0
Horiz 9	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	46.53	46.53	H 18P	-8.962	W 180	14.444	0.000	0.000	0.500	0.500	179.94	11.531	6	0
Horiz 10	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	34.90	34.90	H 20P	-7.900	W 180	13.402	0.000	0.000	0.500	0.500	179.94	11.531	6	0
Horiz 11	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	25.59	25.59	H 22P	-6.024	W 180	17.658	0.000	0.000	0.500	0.500	155.15	9.969	6	0
Horiz 12	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	18.61	18.61	H 24P	-4.883	W 180	19.684	0.000	0.000	0.500	0.500	143.37	8.846	6	0
Horiz 13	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	17.02	17.02	H 26P	-5.002	W 180	19.684	0.000	0.000	0.500	0.500	143.37	8.846	6	0
Horiz 14	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	11.39	11.39	H 27P	-3.769	W 90	24.817	0.000	0.000	0.500	0.500	143.37	8.846	6	0
Horiz 15	B/B 12.5"x2"x0.25"	DAS	2.5X2.5X0.25	36.0	8.85	8.85	H 29P	-3.699	W 90	28.796	0.000	0.000	0.500	0.500	143.37	8.846	6	0
Horiz 16	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	7.82	7.82	H 31P	-6.724	W 180	6.940	0.000	0.000	0.500	0.500	197.87	12.417	6	0
Horiz 17	B/B 13"x2"x0.25"	DAS	4X3X0.25	36.0	74.58	74.58	H 33P	-38.022	W 90	27.655	0.000	0.000	0.500	0.500	141.97	12.896	6	0
Horiz 18	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	1.41	1.03	H 36P	-0.128	W 90	9.314	0.000	0.000	0.500	0.500	160.45	10.073	6	0
Horiz 19	B/B 13"x2"x0.25"	CHN	CHN1.5	36.0	1.38	1.38	H 38P	-0.400	W 180	21.711	0.000	0.000	0.500	0.500	172.80	9.000	6	0
LD 1	B/B 13"x4"x0.25"	DAL	3X2.5X0.25	36.0	93.94	93.94	L 1P	-42.449	W 180	20.825	0.000	0.000	0.300	0.300	140.35	18.941	6	0
LD 2	B/B 13"x4"x0.25"	DAL	3X2.5X0.25	36.0	89.32	89.32	L 3P	-40.368	W 90	40.616	0.000	0.000	0.300	0.300	140.35	18.941	6	0
LD 3	B/B 13"x4"x0.25"	DAL	3X2.5X0.25	36.0	95.49	95.49	L 5P	-40.102	W 90	40.616	0.000	0.000	0.300	0.300	140.35	18.941	6	0
LD 4	B/B 13"x4"x0.25"	DAL	3X2.5X0.25	36.0	99.38	99.38	L 7P	-40.102	W 90	35.074	0.000	0.000	0.300	0.300	140.35	18.941	6	0
LD 5	B/B 12.5"x2"x0.25"	DAL	2.5X2.5X0.25	36.0	117.84	117.84	L 9P	-21.556	W 180									

Horiz 11	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	25.59	9.20	H 22Y	6.304	W 180	51.408	0.000	0.000	0.000	9.969	0	0.000	0
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	18.61	7.49	H 24Y	5.131	W 180	51.408	0.000	0.000	0.000	9.188	0	0.000	0
Horiz 13	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	17.02	7.52	H 25P	5.156	W 90	51.408	0.000	0.000	0.000	8.406	0	0.000	0
Horiz 14	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	11.39	5.74	H 27K	3.938	W -90	51.408	0.000	0.000	0.000	7.625	0	0.000	0
Horiz 15	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	8.85	5.54	H 29X	3.794	W -90	51.408	0.000	0.000	0.000	6.844	0	0.000	0
Horiz 16	L 3" x 2.5" x 0.25"	SAU 3X2.5X0.25	36.0	7.82	3.95	H 31P	1.489	W 45 Ice	28.296	0.000	0.000	0.000	12.417	0	0.000	0
Horiz 17	B/B L3"x2.5"x0.25"	DAL 3X2.5X0.25	36.0	1.14	1.14	H 33P	0.865	W 0 Ice	56.808	0.000	0.000	0.000	11.146	0	0.000	0
Horiz 18	L 3" x 2.5" x 0.25"	SAU 3X2.5X0.25	36.0	1.41	1.41	H 35P	0.531	W 0 Ice	28.296	0.000	0.000	0.000	10.073	0	0.000	0
Horiz 19	C8x11.5	CHN C8x11.5	36.0	1.38	0.48	H 37P	0.472	W 90	73.008	0.000	0.000	0.000	9.000	0	0.000	0
LD 1	B/B L3"x2.5"x0.3125"	DAL 3X2.5X0.31	36.0	77.14	23.92	LD 2Y	22.323	W -45 Ice	69.984	0.000	0.000	0.000	13.928	0	0.000	0
LD 2	B/B L4"x3"x0.3125"	DAL 4X3X0.31	36.0	89.32	36.62	LD 3P	44.083	W -90	90.288	0.000	0.000	0.000	13.928	0	0.000	0
LD 4	B/B L3"x2"x0.25"	DAL 3X2X0.25	36.0	99.45	27.59	LD 8Y	18.908	W -45	51.408	0.000	0.000	0.000	13.260	0	0.000	0
LD 5	B/B L4"x3"x0.25"	DAL 4X3X0.25	36.0	99.38	44.13	LD 9P	42.952	W -90	73.008	0.000	0.000	0.000	13.260	0	0.000	0
LD 7	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	117.84	30.85	LD 14Y	18.922	W -45	46.008	0.000	0.000	0.000	12.605	0	0.000	0
LD 8	B/B L3.5"x3"x0.25"	DAL 3.5X3X0.25	36.0	95.41	46.00	LD 15P	41.468	W -90	67.608	0.000	0.000	0.000	12.605	0	0.000	0
LD 10	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	99.50	32.66	LD 20Y	20.033	W -45	46.008	0.000	0.000	0.000	11.295	0	0.000	0
LD 11	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	84.57	42.78	LD 21P	26.243	W -90	46.008	0.000	0.000	0.000	8.133	0	0.000	0
LD 12	B/B L3"x2"x0.25"	DAL 3X2X0.25	36.0	87.18	48.55	LD 23K	33.276	W -90	51.408	0.000	0.000	0.000	9.549	0	0.000	0
LD 13	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	92.23	31.66	LD 26Y	19.424	W -45	46.008	0.000	0.000	0.000	10.720	0	0.000	0
LD 14	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	80.12	41.91	LD 27P	25.709	W -90	46.008	0.000	0.000	0.000	7.990	0	0.000	0
LD 15	B/B L2.5"x2.5"x0.25"	DAE 2.5X2.5X0.25	36.0	96.82	46.23	LD 29K	31.688	W -90	51.408	0.000	0.000	0.000	9.206	0	0.000	0
LD 16	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	78.38	29.93	LD 32Y	18.361	W -45	46.008	0.000	0.000	0.000	10.168	0	0.000	0
LD 17	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	76.00	39.32	LD 34P	24.123	W 180	46.008	0.000	0.000	0.000	7.856	0	0.000	0
LD 18	B/B L2.5"x2"x0.25"	DAL 2.5X2X0.25	36.0	94.58	48.12	LD 36Y	29.515	W 180	46.008	0.000	0.000	0.000	8.879	0	0.000	0
LD 19	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	61.00	17.06	LH 1Y	12.919	W 0 Ice	56.808	0.000	0.000	0.000	24.031	0	0.000	0
LH 2	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	48.03	9.80	LH 3Y	7.423	W 0	56.808	0.000	0.000	0.000	22.469	0	0.000	0
LH 3	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	49.86	11.08	LH 5Y	8.395	W 0	56.808	0.000	0.000	0.000	20.906	0	0.000	0
LH 4	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	99.62	28.90	LH 8Y	21.892	W -45	56.808	0.000	0.000	0.000	10.514	0	0.000	0
LH 5	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	86.78	27.20	LH 10Y	20.603	W -45	56.808	0.000	0.000	0.000	9.700	0	0.000	0
LH 6	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	68.35	24.58	LH 12Y	18.616	W -45	56.808	0.000	0.000	0.000	8.886	0	0.000	0
DUM 1	Dummy Bracing Member	DUM 0.1X0.1X1	36.0	0.00	0.00	BR 13K	0.893	W -45	0.216	0.000	0.000	0.000	20.727	0	0.000	0

*** Maximum Stress Summary for Each Load Case

Summary of Maximum Usages by Load Case:

Load Case	Maximum Element Usage	Element Label	Element Type
W 0	99.04	LD 14P	Angle
W 180	99.56	LD 14Y	Angle
W 45	115.17	LD 13P	Angle NG
W 45	117.84	LD 13X	Angle NG
W 90	99.76	LD 13P	Angle
W 90	100.06	LD 13X	Angle NG
W 0 Ice	89.52	LD 14P	Angle
W 180 Ice	90.22	LD 14Y	Angle
W 45 Ice	106.22	LD 13P	Angle NG
W 45 Ice	108.87	LD 13X	Angle NG
W 90 Ice	90.31	LD 13P	Angle
W -90 Ice	90.72	LD 13X	Angle

*** Weight of structure (lbs):
Weight of Angles*Section DLF: 168839.9
Total: 168839.9

*** End of Report

Site # 18008
Name Bethany CT, CT

Engineer ZAM
Date 12/01/09

Windspeed: No Ice: 85 mph
Carrier Version Ice: 74 mph

Taper Change: 337.5 ft
FW @ Top: 9 ft

Taper: -0.125
FW @ Base: 51.1875 ft

Joint Label	Symmetry Code	X Coord. (ft)	Y Coord. (ft)	Z Coord. (ft)	X Disp. Rest.	Y Disp. Rest.	Z Disp. Rest.	X Rot. Rest.	Y Rot. Rest.	Z Rot. Rest.	# Vert	Drop (ft)	Height (ft)	Type	Count	Z Elev. (ft)	FW (ft)	# Sub-Brace
0	XY-Symmetry	25.53375	25.53375	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	3	7.03	25	1	1	0	51.1875	3
1	XY-Symmetry	24.03125	22.46875	25	Free	Free	Free	Free	Free	Free	3	7.03	25	1	2	25	48.0625	3
2	XY-Symmetry	22.46875	20.90625	50	Free	Free	Free	Free	Free	Free	3	7.03	25	1	3	50	44.9375	3
3	XY-Symmetry	20.90625	19.34375	75	Free	Free	Free	Free	Free	Free	3	7.03	25	2	4	75	41.8125	3
4	XY-Symmetry	19.34375	17.78125	100	Free	Free	Free	Free	Free	Free	3	7.03	25	2	5	100	38.6875	3
5	XY-Symmetry	17.78125	16.21875	125	Free	Free	Free	Free	Free	Free	3	7.03	25	2	6	125	35.5625	3
6	XY-Symmetry	16.21875	14.65625	150	Free	Free	Free	Free	Free	Free	3	7.03	25	2	7	150	32.4375	2
7	XY-Symmetry	14.65625	13.09375	175	Free	Free	Free	Free	Free	Free	3	7.03	25	2	8	175	29.3125	2
8	XY-Symmetry	13.09375	11.53125	200	Free	Free	Free	Free	Free	Free	3	7.03	25	2	9	200	26.1875	2
9	XY-Symmetry	11.53125	10.75	225	Free	Free	Free	Free	Free	Free	3	7.03	25	2	10	225	23.0625	1
10	XY-Symmetry	10.75	9.96875	250	Free	Free	Free	Free	Free	Free	3	7.03	25	2	11	250	20.9375	1
11	XY-Symmetry	9.96875	9.1875	275	Free	Free	Free	Free	Free	Free	3	7.03	25	2	12	275	18.8125	1
12	XY-Symmetry	9.1875	8.40625	300	Free	Free	Free	Free	Free	Free	3	7.03	25	2	13	300	16.6875	1
13	XY-Symmetry	8.40625	7.625	325	Free	Free	Free	Free	Free	Free	3	7.03	25	2	14	325	14.5625	1
14	XY-Symmetry	7.625	6.84375	350	Free	Free	Free	Free	Free	Free	3	7.03	25	2	15	350	12.4375	1
15	XY-Symmetry	6.84375	6.0625	375	Free	Free	Free	Free	Free	Free	3	7.03	25	2	16	375	10.3125	1
16	XY-Symmetry	6.0625	5.28125	400	Free	Free	Free	Free	Free	Free	3	7.03	25	2	17	400	8.1875	1
17	XY-Symmetry	5.28125	4.5	425	Free	Free	Free	Free	Free	Free	3	7.03	25	2	18	425	6.0625	1
18	XY-Symmetry	4.5	3.78125	450	Free	Free	Free	Free	Free	Free	3	7.03	25	2	19	450	3.9375	1
19	XY-Symmetry	3.78125	3.00625	475	Free	Free	Free	Free	Free	Free	3	7.03	25	2	20	475	1.8125	1
A1	Y-Symmetry	24.03125	0	25	Free	Free	Free	Free	Free	Free	3	7.03	25	2	21	25	0	3
A2	X-Symmetry	0	24.03125	25	Free	Free	Free	Free	Free	Free	3	7.03	25	2	22	25	0	3
A3	Y-Symmetry	0	22.46875	50	Free	Free	Free	Free	Free	Free	3	7.03	25	2	23	50	0	3
A4	X-Symmetry	0	20.90625	75	Free	Free	Free	Free	Free	Free	3	7.03	25	2	24	75	0	3
A5	Y-Symmetry	0	19.34375	100	Free	Free	Free	Free	Free	Free	3	7.03	25	2	25	100	0	3
A6	X-Symmetry	0	17.78125	125	Free	Free	Free	Free	Free	Free	3	7.03	25	2	26	125	0	3
A7	Y-Symmetry	0	16.21875	150	Free	Free	Free	Free	Free	Free	3	7.03	25	2	27	150	0	3
A8	X-Symmetry	0	14.65625	175	Free	Free	Free	Free	Free	Free	3	7.03	25	2	28	175	0	3
A9	Y-Symmetry	0	13.09375	200	Free	Free	Free	Free	Free	Free	3	7.03	25	2	29	200	0	3
A10	X-Symmetry	0	11.53125	225	Free	Free	Free	Free	Free	Free	3	7.03	25	2	30	225	0	3
A11	Y-Symmetry	0	10.75	250	Free	Free	Free	Free	Free	Free	3	7.03	25	2	31	250	0	3
A12	X-Symmetry	0	9.96875	275	Free	Free	Free	Free	Free	Free	3	7.03	25	2	32	275	0	3
A13	Y-Symmetry	0	9.1875	300	Free	Free	Free	Free	Free	Free	3	7.03	25	2	33	300	0	3
A14	X-Symmetry	0	8.40625	325	Free	Free	Free	Free	Free	Free	3	7.03	25	2	34	325	0	3
A15	Y-Symmetry	0	7.625	350	Free	Free	Free	Free	Free	Free	3	7.03	25	2	35	350	0	3
A16	X-Symmetry	0	6.84375	375	Free	Free	Free	Free	Free	Free	3	7.03	25	2	36	375	0	3
A17	Y-Symmetry	0	6.0625	400	Free	Free	Free	Free	Free	Free	3	7.03	25	2	37	400	0	3
A18	X-Symmetry	0	5.28125	425	Free	Free	Free	Free	Free	Free	3	7.03	25	2	38	425	0	3
A19	Y-Symmetry	0	4.5	450	Free	Free	Free	Free	Free	Free	3	7.03	25	2	39	450	0	3
A20	X-Symmetry	0	3.78125	475	Free	Free	Free	Free	Free	Free	3	7.03	25	2	40	475	0	3
A21	Y-Symmetry	0	3.00625	500	Free	Free	Free	Free	Free	Free	3	7.03	25	2	41	500	0	3
A22	X-Symmetry	0	2.22875	525	Free	Free	Free	Free	Free	Free	3	7.03	25	2	42	525	0	3
A23	Y-Symmetry	0	1.45	550	Free	Free	Free	Free	Free	Free	3	7.03	25	2	43	550	0	3
A24	X-Symmetry	0	0.67125	575	Free	Free	Free	Free	Free	Free	3	7.03	25	2	44	575	0	3
A25	Y-Symmetry	0	0	600	Free	Free	Free	Free	Free	Free	3	7.03	25	2	45	600	0	3
A26	X-Symmetry	0	0	625	Free	Free	Free	Free	Free	Free	3	7.03	25	2	46	625	0	3
A27	Y-Symmetry	0	0	650	Free	Free	Free	Free	Free	Free	3	7.03	25	2	47	650	0	3
A28	X-Symmetry	0	0	675	Free	Free	Free	Free	Free	Free	3	7.03	25	2	48	675	0	3
A29	Y-Symmetry	0	0	700	Free	Free	Free	Free	Free	Free	3	7.03	25	2	49	700	0	3
A30	X-Symmetry	0	0	725	Free	Free	Free	Free	Free	Free	3	7.03	25	2	50	725	0	3
H1	XY-Symmetry	24.03125	12.015625	17.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	51	17.97	10.072875	1
H2	XY-Symmetry	12.015625	24.470625	17.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	52	17.97	10.072875	1
H5	XY-Symmetry	22.908125	11.234375	42.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	53	42.97	10.072875	1
H6	XY-Symmetry	11.234375	22.908125	42.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	54	42.97	10.072875	1
H9	XY-Symmetry	21.345625	10.453125	67.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	55	67.97	10.072875	1
H10	XY-Symmetry	10.453125	21.345625	67.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	56	67.97	10.072875	1
H13	XY-Symmetry	19.783125	10.5136	92.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	57	92.97	10.072875	1
H14	XY-Symmetry	10.5136	19.783125	92.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	58	92.97	10.072875	1
H15	Y-Symmetry	0	19.783125	92.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	59	92.97	10.072875	1
H16	X-Symmetry	0	17.783125	92.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	60	92.97	10.072875	1
H17	XY-Symmetry	18.20625	9.69985	117.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	61	117.97	10.072875	1
H18	XY-Symmetry	9.69985	18.20625	117.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	62	117.97	10.072875	1
H19	Y-Symmetry	0	18.20625	117.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	63	117.97	10.072875	1
H20	X-Symmetry	0	16.658125	117.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	64	117.97	10.072875	1
H21	XY-Symmetry	16.658125	8.8861	142.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	65	142.97	10.072875	1
H22	XY-Symmetry	8.8861	16.658125	142.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	66	142.97	10.072875	1
H23	Y-Symmetry	0	16.658125	142.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	67	142.97	10.072875	1
H24	X-Symmetry	0	14.297	142.97	Free	Free	Free	Free	Free	Free	3	7.03	25	2	68	142.97	10.072875	1

NOTES:
Types:
1: Built up Horizont. w/ A
2: Built up Horizont. w/ M
A: Typical A brace
X: Typical X brace
Drop: Use only for types 1 & 2
Sections: 19

Legs

Site No.:	88008
Engineer:	ZAM
Date:	12/01/2009
Carrier:	Verizon

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	36
2	25.00-50.00	L	8	0.875	36
3	50.00-75.00	L	8	0.75	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:	ZAM
Date:	12/01/2009
Carrier:	Verizon

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		2.5	3	0.25	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	
17	310.2-320.3	L		3.5	3.5	0.25	36	
18	320.3-328.9	L		3	3	0.25	36	
19	328.9-337.5	L		3	3	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.

Horizontals

Site No.:	88008
Engineer:	ZAM
Date:	12/01/2009
Carrier:	Verizon

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:	ZAM
Date:	12/01/2009
Carrier:	Verizon

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	0.25	36
6	50.00-75.00	2L		3.5	3	0.25	36
7	75.00-100.0	2L		2.5	2	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		2.5	2.5	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:	ZAM
Date:	12/01/2009
Carrier:	Verizon

When inputting thickness values, include all decimal places.

[illegible]

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.

Coax & Dishes

Dish Types		Joint Orientation	
		XY	Y
S	Standard		
R	Standard w/ Radome		
H	High Performance		
G	Grid		

Dish Elevation (ft)	Dish Dia. (ft)	Dish Angle (deg)	Dish Type	Joint Orientation

Equipment Label	Attach Label	Equipment Property Set	EIA Antenna Orientation Angle (deg)

Site No.:	88008
Engineer:	ZAM
Date:	12/01/09
Carrier:	Verizon

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)
(12) 1 5/8	0	250	12	Round	1.98	6.22	1.08	Yes	Yes
(12) 1 5/8	0	180	6	Round	1.98	6.22	1.08	Yes	Yes
Weight	0	200	48	Round	1.98	6.22	1.08	No	No

Coax	Dia. (in)	Weight (lb/ft)
1/4"	0.3	0.064
3/8"	0.44	0.084
1/2"	0.63	0.144
7/8"	1.11	0.544
EW90	1.32	0.32
1-1/4"	1.55	0.664
1-5/8"	1.98	1.08
EW63	2.01	0.51
EW52	2.25	0.59
Ladder	3	6
WC281	3.11	5.39

Site #: 88008
Name: Verizon

Engineer: ZAM
Date: 12/01/09

Section Label	Section Color	Joint Defining Bottom Section	Dead Load Adj. Factor					Adj. Factor Flat	Adj. Factor Round	Area Multiplier	Weight Multiplier
0.000-25.00		0P	1.584289507					1.320241256	1.320241256	1	1.2
25.00-50.00		1P	1.589032706					1.324193922	1.324193922	1	1.2
50.00-75.00		2P	1.60447316					1.337060966	1.337060966	1	1.2
75.00-100.0		3P	1.477660383					1.231383653	1.231383653	1	1.2
100.0-125.0		4P	1.471626831					1.226355693	1.226355693	1	1.2
125.0-150.0		5P	1.474343038					1.228619198	1.228619198	1	1.2
150.0-175.0		6P	1.543539164					1.286282637	1.286282637	1	1.2
175.0-200.0		7P	1.526488777					1.272073981	1.272073981	1	1.2
200.0-225.0		8P	1.515177918					1.262648265	1.262648265	1	1.2
225.0-237.5		9P	1.477488283					1.231240236	1.231240236	1	1.2
237.5-250.0		10P	1.470537897					1.225448247	1.225448247	1	1.2
250.0-262.5		11P	1.46343609					1.219530075	1.219530075	1	1.2
262.5-275.0		12P	1.456196921					1.213497434	1.213497434	1	1.2
275.0-287.5		13P	1.448837948					1.207364957	1.207364957	1	1.2
287.5-300.0		14P	1.441380399					1.201150332	1.201150332	1	1.2
300.0-310.2		15P	1.384314612					1.15359551	1.15359551	1	1.2
310.2-320.3		16P	1.436093502					1.196744585	1.196744585	1	1.2
320.3-328.9		17P	1.392804322					1.160670269	1.160670269	1	1.2
328.9-337.5		18P	1.346103729					1.121753108	1.121753108	1	1.2

Site #:	88008
Name:	Verizon

Engineer:	ZAM
Date:	12/01/09

Group Label	Group Description	Angle Type	Angle Size	Material Type	Element Type	Group Type	Optimize Group
Leg S1	L 8" x 8" x 1"	SAE	8X8X1	A 36	Beam	Leg	None
Leg S2	L 8" x 8" x 0.875"	SAE	8X8X0.88	A 36	Beam	Leg	None
Leg S3	L 8" x 8" x 0.75"	SAE	8X8X0.75	A 36	Beam	Leg	None
Leg S4	L 8" x 8" x 1.125"	SAE	8X8X1.13	A 36	Beam	Leg	None
Leg S5	L 8" x 8" x 1"	SAE	8X8X1	A 36	Beam	Leg	None
Leg S6	L 8" x 8" x 1"	SAE	8X8X1	A 36	Beam	Leg	None
Leg S7	L 8" x 8" x 0.875"	SAE	8X8X0.88	A 36	Beam	Leg	None
Leg S8	L 8" x 8" x 0.75"	SAE	8X8X0.75	A 36	Beam	Leg	None
Leg S9	L 8" x 8" x 0.75"	SAE	8X8X0.75	A 36	Beam	Leg	None
Leg S10	L 6" x 6" x 0.875"	SAE	6X6X0.88	A 36	Beam	Leg	None
Leg S11	L 6" x 6" x 0.75"	SAE	6X6X0.75	A 36	Beam	Leg	None
Leg S12	L 6" x 6" x 0.75"	SAE	6X6X0.75	A 36	Beam	Leg	None
Leg S13	L 6" x 6" x 0.5625"	SAE	6X6X0.56	A 36	Beam	Leg	None
Leg S14	L 6" x 6" x 0.5625"	SAE	6X6X0.56	A 36	Beam	Leg	None
Leg S15	L 6" x 6" x 0.4375"	SAE	6X6X0.44	A 36	Beam	Leg	None
Leg S16	L 5" x 5" x 0.4375"	SAE	5X5X0.44	A 36	Beam	Leg	None
Leg S17	L 5" x 5" x 0.4375"	SAE	5X5X0.44	A 36	Beam	Leg	None
Leg S18	L 5" x 5" x 0.3125"	SAE	5X5X0.31	A 36	Beam	Leg	None
Leg S19	L 5" x 5" x 0.3125"	SAE	5X5X0.31	A 36	Beam	Leg	None
Diag S1	B/B L3"x4"x0.375"	DAS	4X3X0.38	A 36	Beam	Other	None
Diag S2	B/B L3"x4"x0.25"	DAS	4X3X0.25	A 36	Beam	Other	None
Diag S3	B/B L3"x4"x0.25"	DAS	4X3X0.25	A 36	Beam	Other	None
Diag S4	B/B L3"x3.5"x0.25"	DAS	3.5X3X0.25	A 36	Beam	Other	None
Diag S5	B/B L3"x3.5"x0.25"	DAS	3.5X3X0.25	A 36	Beam	Other	None
Diag S6	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	A 36	Beam	Other	None
Diag S7	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
Diag S8	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
Diag S9	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
Diag S10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Diag S11	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Diag S12	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Diag S13	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
Diag S14	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
Diag S15	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
Diag S16	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	A 36	Beam	Other	None
Diag S17	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	A 36	Beam	Other	None
Diag S18	L 3" x 3" x 0.25"	SAE	3X3X0.25	A 36	Beam	Other	None
Diag S19	L 3" x 3" x 0.25"	SAE	3X3X0.25	A 36	Beam	Other	None
Horiz 1	B/B L4"x3"x0.25"	DAL	4X3X0.25	A 36	Beam	Other	None
Horiz 2	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	A 36	Beam	Other	None
Horiz 3	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 4	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	A 36	Beam	Other	None
Horiz 5	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	A 36	Beam	Other	None
Horiz 6	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 7	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 8	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 11	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 13	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 14	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 15	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 16	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	A 36	Beam	Other	None
Horiz 17	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 18	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	A 36	Beam	Other	None
Horiz 19	C8x11.5	CHN	C8x11.5	A 36	Beam	Other	None
LD 1	B/B L3"x2.5"x0.3125"	DAL	3X2.5X0.31	A 36	Beam	Other	None
LD 2	B/B L4"x3"x0.3125"	DAL	4X3X0.31	A 36	Beam	Other	None
LD 4	B/B L3"x2"x0.25"	DAL	3X2X0.25	A 36	Beam	Other	None
LD 5	B/B L4"x3"x0.25"	DAL	4X3X0.25	A 36	Beam	Other	None
LD 7	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 8	B/B L3.5"x3"x0.25"	DAL	3.5X3X0.25	A 36	Beam	Other	None
LD 10	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None

Group Label	Group Description	Angle Type	Angle Size	Material Type	Element Type	Group Type	Optimize Group
LD 11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 12	B/B L3"x2"x0.25"	DAL	3X2X0.25	A 36	Beam	Other	None
LD 13	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 14	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 15	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
LD 16	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 17	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 18	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LH 1	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
LH 2	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
LH 3	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
LH 4	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
LH 5	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
LH 6	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
DUM 1	Dummy Bracing Member	DUM	0.1X0.1X1	A 36	Beam	Fictitious	None

Site #:	88008
Name:	Verizon

Engineer:	ZAM
Date:	12/01/09

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	0.66666667	0.33333333
D 2	Diag S1		XY-Symmetry	0P	H1P	1	6	0.33333333	0.66666667	0.33333333
D 3	Diag S2		XY-Symmetry	1P	H6P	1	6	0.33333333	0.66666667	0.33333333
D 4	Diag S2		XY-Symmetry	1P	H5P	1	6	0.33333333	0.66666667	0.33333333
D 5	Diag S3		XY-Symmetry	2P	H10P	1	6	0.33333333	0.66666667	0.33333333
D 6	Diag S3		XY-Symmetry	2P	H9P	1	6	0.33333333	0.66666667	0.33333333
D 7	Diag S4		XY-Symmetry	3P	H14P	1	6	0.33333333	0.66666667	0.33333333
D 8	Diag S4		XY-Symmetry	3P	H13P	1	6	0.33333333	0.66666667	0.33333333
D 9	Diag S5		XY-Symmetry	4P	H18P	1	6	0.33333333	0.66666667	0.33333333
D 10	Diag S5		XY-Symmetry	4P	H17P	1	6	0.33333333	0.66666667	0.33333333
D 11	Diag S6		XY-Symmetry	5P	H22P	1	6	0.33333333	0.66666667	0.33333333
D 12	Diag S6		XY-Symmetry	5P	H21P	1	6	0.33333333	0.66666667	0.33333333
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	5	0.52	0.75	0.52
D 32	Diag S16		XY-Symmetry	15P	16X	2	5	0.52	0.75	0.52
D 33	Diag S17		XY-Symmetry	16P	17Y	2	5	0.52	0.75	0.52
D 34	Diag S17		XY-Symmetry	16P	17X	2	5	0.52	0.75	0.52
D 35	Diag S18		XY-Symmetry	17P	18Y	2	5	0.52	0.75	0.52
D 36	Diag S18		XY-Symmetry	17P	18X	2	5	0.52	0.75	0.52
D 37	Diag S19		XY-Symmetry	18P	19Y	2	5	0.52	0.75	0.52
D 38	Diag S19		XY-Symmetry	18P	19X	2	5	0.52	0.75	0.52
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	0.5	0.5	0.5
H 4	Horiz 2		XY-Symmetry	2P	A4P	1	6	0.5	0.5	0.5
H 5	Horiz 3		XY-Symmetry	3P	A5P	1	6	0.5	0.5	0.5

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	0.5	0.5	0.5
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	1	1	1
H 10	Horiz 5		XY-Symmetry	5P	A10P	1	6	1	1	1
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	1
H 28	Horiz 14		XY-Symmetry	14P	A28P	1	6	1	1	1
H 29	Horiz 15		XY-Symmetry	15P	A29P	1	6	1	1	1
H 30	Horiz 15		XY-Symmetry	15P	A30P	1	6	1	1	1
H 31	Horiz 16		Y-Symmetry	16P	16X	3	6	0.5	1	0.5
H 32	Horiz 16		X-Symmetry	16P	16Y	3	6	0.5	1	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	1	6	1	1	1
H 38	Horiz 19		X-Symmetry	19P	19Y	1	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	0.5	1	0.5
LH 2	LH 1		X-Symmetry	H2P	H2Y	1	6	0.5	1	0.5
LH 3	LH 2		Y-Symmetry	H5P	H5X	1	6	0.5	1	0.5
LH 4	LH 2		X-Symmetry	H6P	H6Y	1	6	0.5	1	0.5
LH 5	LH 3		Y-Symmetry	H9P	H9X	1	6	0.5	1	0.5
LH 6	LH 3		X-Symmetry	H10P	H10Y	1	6	0.5	1	0.5
LH 7	LH 4		XY-Symmetry	H13P	H15P	1	6	0.95	1.9	0.95
LH 8	LH 4		XY-Symmetry	H14P	H16P	1	6	0.95	1.9	0.95
LH 9	LH 5		XY-Symmetry	H17P	H19P	1	6	0.95	1.9	0.95
LH 10	LH 5		XY-Symmetry	H18P	H20P	1	6	0.95	1.9	0.95
LH 11	LH 6		XY-Symmetry	H21P	H23P	1	6	0.95	1.9	0.95
LH 12	LH 6		XY-Symmetry	H22P	H24P	1	6	0.95	1.9	0.95
LD 1	LD 1		XY-Symmetry	H1P	1P	1	6	0.94	0.94	0.94
LD 2	LD 1		XY-Symmetry	H2P	1P	1	6	0.94	0.94	0.94
LD 3	LD 2		XY-Symmetry	H1P	A1P	1	6	0.96	0.96	0.96
LD 4	LD 2		XY-Symmetry	H2P	A2P	1	6	0.96	0.96	0.96
LD 7	LD 4		XY-Symmetry	H5P	2P	1	6	0.94	0.94	0.94
LD 8	LD 4		XY-Symmetry	H6P	2P	1	6	0.94	0.94	0.94
LD 9	LD 5		XY-Symmetry	H5P	A3P	1	6	0.96	0.96	0.96
LD 10	LD 5		XY-Symmetry	H6P	A4P	1	6	0.96	0.96	0.96
LD 13	LD 7		XY-Symmetry	H9P	3P	1	6	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
LD 14	LD 7		XY-Symmetry	H10P	3P	1	6	1	1	1
LD 15	LD 8		XY-Symmetry	H9P	A5P	1	6	1	1	1
LD 16	LD 8		XY-Symmetry	H10P	A6P	1	6	1	1	1
LD 19	LD 10		XY-Symmetry	H13P	4P	1	6	1	1	1
LD 20	LD 10		XY-Symmetry	H14P	4P	1	6	1	1	1
LD 21	LD 11		XY-Symmetry	H13P	A7P	1	6	1	1	1
LD 22	LD 11		XY-Symmetry	H14P	A8P	1	6	1	1	1
LD 23	LD 12		XY-Symmetry	A7P	H15P	1	6	1	1	1
LD 24	LD 12		XY-Symmetry	A8P	H16P	1	6	1	1	1
LD 25	LD 13		XY-Symmetry	H17P	5P	1	6	1	1	1
LD 26	LD 13		XY-Symmetry	H18P	5P	1	6	1	1	1
LD 27	LD 14		XY-Symmetry	H17P	A9P	1	6	1	1	1
LD 28	LD 14		XY-Symmetry	H18P	A10P	1	6	1	1	1
LD 29	LD 15		XY-Symmetry	A9P	H19P	1	6	1	1	1
LD 30	LD 15		XY-Symmetry	A10P	H20P	1	6	1	1	1
LD 31	LD 16		XY-Symmetry	H21P	6P	1	6	1	1	1
LD 32	LD 16		XY-Symmetry	H22P	6P	1	6	1	1	1
LD 33	LD 17		XY-Symmetry	H21P	A11P	1	6	1	1	1
LD 34	LD 17		XY-Symmetry	H22P	A12P	1	6	1	1	1
LD 35	LD 18		XY-Symmetry	A11P	H23P	1	6	1	1	1
LD 36	LD 18		XY-Symmetry	A12P	H24P	1	6	1	1	1
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

Tower Height:	337.5	ft
Gh:	1.08	mph
Wind Speed:	85.00	mph
Wind Speed (Ice):	73.61	mph
Radial Ice Diameter:	0.5	in

Site No.:	88008
Engineer:	ZAM
Date:	12/01/2009
Carrier:	Verizon

KS-15676 Horn Antennas: ~128 ft²[illegible]

No.	Elevation (ft)	C _p A _c (ft ²)	C _p A _c (ice) (ft ²)	Force (k)	Force (ice) (k)	Weight (k)	Weight (ice) (k)	Σ Force (k)	Σ Force (ice) (k)	Σ Weight (k)	Σ Weight (ice) (k)
1	338	24.10	25.18	0.936	0.734	0.088	0.286				
		50.00	67.50	1.942	1.967	3.000	3.900	2.88	2.70	3.09	4.19
2	310	6.00	7.38	0.227	0.210	0.047	0.100				
		14.00	18.90	0.531	0.537	0.300	0.390	0.76	0.75	0.35	0.49
3	310	10.46	12.60	0.396	0.358	0.079	0.170				
		0.00	0.00	0.000	0.000	0.000	0.000	0.40	0.36	0.08	0.17
4	275	10.46	12.60	0.383	0.346	0.079	0.170				
		14.00	18.90	0.513	0.519	0.300	0.390	0.90	0.87	0.38	0.56
5	250	30.02	34.47	1.070	0.921	0.168	0.484				
		28.14	37.99	1.003	1.015	0.900	1.170	2.07	1.94	1.07	1.65
6	240	16.55	19.60	0.583	0.518	0.097	0.235				
		28.14	37.99	0.991	1.004	0.900	1.170	1.57	1.52	1.00	1.41
7	220	13.36	14.67	0.459	0.378	0.119	0.212				
		39.40	53.18	1.354	1.371	1.200	1.560	1.81	1.75	1.32	1.77
8	180	15.95	18.19	0.517	0.443	0.060	0.218				
		28.14	37.99	0.913	0.924	0.900	1.170	1.43	1.37	0.96	1.39
9	180	18.90	20.76	0.613	0.505	0.099	0.233				
		8.07	10.90	0.262	0.265	0.059	0.077	0.88	0.77	0.16	0.31
10	165	23.65	26.26	0.748	0.623	0.210	0.406				
		33.77	45.59	1.069	1.082	1.050	1.365	1.82	1.71	1.26	1.77
11	100	12.25	14.24	0.336	0.293	0.079	0.159				
		0.00	0.00	0.000	0.000	0.000	0.000	0.34	0.29	0.08	0.16
12	48	0.00	0.00	0.000	0.000	0.000	0.000				
		1.00	1.35	0.022	0.023	0.005	0.007	0.02	0.02	0.01	0.01
13	20	0.00	0.00	0.000	0.000	0.000	0.000				
		1.00	1.35	0.020	0.020	0.005	0.007	0.02	0.02	0.01	0.01
14	15	0.00	0.00	0.000	0.000	0.000	0.000				
		1.00	1.35	0.020	0.020	0.005	0.007	0.02	0.02	0.01	0.01
15											
16	320	0.00	0.00	0.000	0.000	0.000	0.000				
		40.00	54.00	1.530	1.549	2.500	3.250	1.53	1.55	2.50	3.25
17	237	0.00	0.00	0.000	0.000	0.000	0.000				
		30.00	40.50	1.053	1.066	2.000	2.600	1.05	1.07	2.00	2.60
18	150	0.00	0.00	0.000	0.000	0.000	0.000				
		20.00	27.00	0.616	0.624	1.000	1.300	0.62	0.62	1.00	1.30
19	125	0.00	0.00	0.000	0.000	0.000	0.000				
		30.00	40.50	0.877	0.888	2.000	2.600	0.88	0.89	2.00	2.60
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											

Site: 88008
Carrier: Verizon

Engineer: ZAM
Date: 12/01/09

Load Case Description	Dead Load Factor	Wind Load Factor	Ice Load Factor	Strength Factor	Allowable Stress Inc. Factor	Basic Wind Speed	Wind Dir.	Ice Thick.	Ice Density	Temp.	Point Loads
W 0	1.1	1	1	1	1.333333333	85	0	0	56	50	
W 180	1.1	1	1	1	1.333333333	85	180	0	56	50	
W 45	1.1	1	1	1	1.333333333	85	45	0	56	50	
W -45	1.1	1	1	1	1.333333333	85	-45	0	56	50	
W 90	1.1	1	1	1	1.333333333	85	90	0	56	50	
W -90	1.1	1	1	1	1.333333333	85	-90	0	56	50	
W 0 Ice	1.1	1	1	1	1.333333333	73.61215932	0	0.5	56	10	
W 180 Ice	1.1	1	1	1	1.333333333	73.61215932	180	0.5	56	10	
W 45 Ice	1.1	1	1	1	1.333333333	73.61215932	45	0.5	56	10	
W -45 Ice	1.1	1	1	1	1.333333333	73.61215932	-45	0.5	56	10	
W 90 Ice	1.1	1	1	1	1.333333333	73.61215932	90	0.5	56	10	
W -90 Ice	1.1	1	1	1	1.333333333	73.61215932	-90	0.5	56	10	

Angle: 0

No Ice

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)	Moment X-Axis (ft-lbs)	Moment Y-Axis (ft-lbs)	Moment Z-Axis (ft-lbs)
19P	1421.88	0.00	838.2			
19X	485.59	0.00	750			
19Y	485.59	0.00	750			
19XY	485.59	0.00	750			
16P	757.98	0.00	347			
16X	0.00	0.00	0			
16Y	0.00	0.00	0			
16XY	0.00	0.00	0			
16P	396.36	0.00	79			
16X	0.00	0.00	0			
16Y	0.00	0.00	0			
16XY	0.00	0.00	0			
13P	895.76	0.00	379			
13X	0.00	0.00	0			
13Y	0.00	0.00	0			
13XY	0.00	0.00	0			
11P	690.89	0.00	356			
11X	690.89	0.00	356			
11Y	690.89	0.00	356			
11XY	0.00	0.00	0			
10P	524.72	0.00	332.4			
10X	524.72	0.00	332.4			
10Y	524.72	0.00	332.4			
10XY	0.00	0.00	0			
9P	604.27	0.00	439.6			
9X	604.27	0.00	439.6			
9Y	604.27	0.00	439.6			
9XY	0.00	0.00	0			
7P	476.82	0.00	320			
7X	476.82	0.00	320			
7Y	476.82	0.00	320			
7XY	0.00	0.00	0			
7P	291.73	0.00	52.8			
7X	291.73	0.00	52.8			
7Y	291.73	0.00	52.8			
7XY	0.00	0.00	0			
7P	605.72	0.00	420			
7X	605.72	0.00	420			
7Y	605.72	0.00	420			
7XY	0.00	0.00	0			
4P	111.96	0.00	26.4			
4X	111.96	0.00	26.4			
4Y	111.96	0.00	26.4			
4XY	0.00	0.00	0			
2P	22.24	0.00	5			
2X	0.00	0.00	0			
2Y	0.00	0.00	0			
2XY	0.00	0.00	0			
1P	19.98	0.00	5			
1X	0.00	0.00	0			
1Y	0.00	0.00	0			
1XY	0.00	0.00	0			
1P	19.98	0.00	5			
1X	0.00	0.00	0			
1Y	0.00	0.00	0			
1XY	0.00	0.00	0			

With Ice

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)
19P	1225.38	0.00	1260.659954
19X	491.66	0.00	975
19Y	491.66	0.00	975
19XY	491.66	0.00	975
16P	746.97	0.00	489.8321759
16X	0.00	0.00	0
16Y	0.00	0.00	0
16XY	0.00	0.00	0
16P	358.15	0.00	169.6435185
16X	0.00	0.00	0
16Y	0.00	0.00	0
16XY	0.00	0.00	0
13P	865.24	0.00	559.6435185
13X	0.00	0.00	0
13Y	0.00	0.00	0
13XY	0.00	0.00	0
11P	645.62	0.00	551.1944444
11X	645.62	0.00	551.1944444
11Y	645.62	0.00	551.1944444
11XY	0.00	0.00	0
10P	507.19	0.00	468.4843056
10X	507.19	0.00	468.4843056
10Y	507.19	0.00	468.4843056
10XY	0.00	0.00	0
9P	582.88	0.00	590.6459722
9X	582.88	0.00	590.6459722
9Y	582.88	0.00	590.6459722
9XY	0.00	0.00	0
7P	455.74	0.00	462.5324074
7X	455.74	0.00	462.5324074
7Y	455.74	0.00	462.5324074
7XY	0.00	0.00	0
7P	256.80	0.00	103.2677778
7X	256.80	0.00	103.2677778
7Y	256.80	0.00	103.2677778
7XY	0.00	0.00	0
7P	568.53	0.00	590.2685185
7X	568.53	0.00	590.2685185
7Y	568.53	0.00	590.2685185
7XY	0.00	0.00	0
4P	97.66	0.00	53.12833333
4X	97.66	0.00	53.12833333
4Y	97.66	0.00	53.12833333
4XY	0.00	0.00	0
2P	22.52	0.00	6.5
2X	0.00	0.00	0
2Y	0.00	0.00	0
2XY	0.00	0.00	0
1P	20.23	0.00	6.5
1X	0.00	0.00	0
1Y	0.00	0.00	0
1XY	0.00	0.00	0
1P	20.23	0.00	6.5
1X	0.00	0.00	0
1Y	0.00	0.00	0
1XY	0.00	0.00	0

17P	382.45	0.00	625
17X	382.45	0.00	625
17Y	382.45	0.00	625
17XY	382.45	0.00	625
10P	263.25	0.00	500
10X	263.25	0.00	500
10Y	263.25	0.00	500
10XY	263.25	0.00	500
6P	616.00	0.00	1000
6X	0.00	0.00	0
6Y	0.00	0.00	0
6XY	0.00	0.00	0
5P	438.55	0.00	1000
5X	438.55	0.00	1000
5Y	0.00	0.00	0
5XY	0.00	0.00	0

17P	387.23	0.00	812.5
17X	387.23	0.00	812.5
17Y	387.23	0.00	812.5
17XY	387.23	0.00	812.5
10P	266.54	0.00	650
10X	266.54	0.00	650
10Y	266.54	0.00	650
10XY	266.54	0.00	650
6P	623.70	0.00	1300
6X	0.00	0.00	0
6Y	0.00	0.00	0
6XY	0.00	0.00	0
5P	444.03	0.00	1300
5X	444.03	0.00	1300
5Y	0.00	0.00	0
5XY	0.00	0.00	0

Foundation

Design Loads (Unfactored)

Compression/Leg:	456.46 k
Uplift/Leg:	344.48 k

Face Width @ Top of Pier (d_1):	4.00 ft
Face Width @ Bottom of Pier (d_2):	4.00 ft
Total Length of Pier (l):	7.50 ft
Height of Pedestal Above Ground (h):	0.50 ft
Width of Pad (W):	20.50 ft
Length of Pad (L):	20.50 ft
Thickness of Pad (t):	2.50 ft
Unit Weight of Concrete:	150.0 pcf
Unit Weight of Soil:	120.0 pcf
Friction Angle of Uplift (A):	25°
Allowable Compressive Bearing Pressure:	4000 psf

Volume Pier:	120.00	ft ³
Volume Pad:	1050.63	ft ³
Weight Pad:	157.59	kips
Weight Pier:	18.00	kips
Volume Soil:	3866.01	ft ³
Weight Soil:	463.92	kips

Uplift Check

TIA Case 1: $\frac{\text{Wt. Soil} + \text{Wt. Concrete}}{1.5}$

TIA Case 2: $\frac{\text{Wt. Soil} + \text{Wt. Concrete}}{2.0 \quad 1.25}$

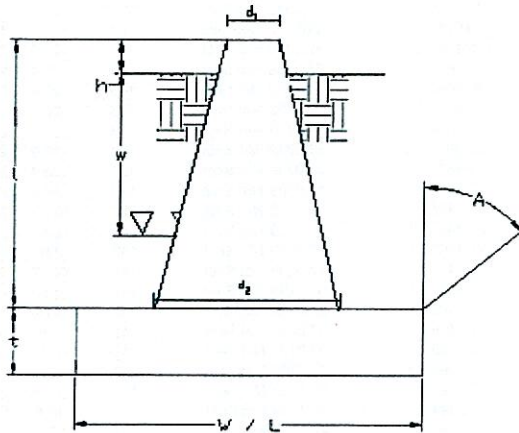
	Allowable Uplift (k)	Ratio	Result
TIA Case 1:	426.34	0.81	OK
TIA Case 2:	372.44	0.92	OK

Axial Check

Allowable Axial: $\text{Allowable Bearing Pressure} * W * L$

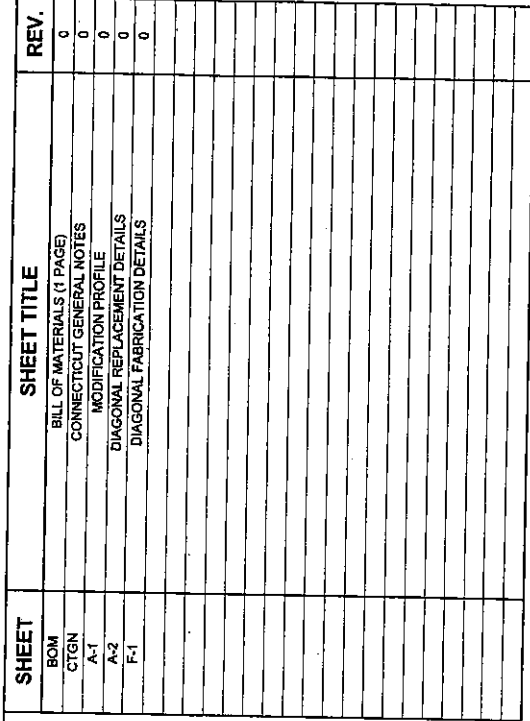
	Allowable Axial (k)	Ratio	Result
	1681.00	0.27	OK

Site No.:	88008
Engineer:	ZAM
Date:	12/01/09
Carrier:	Verizon



Row #	Member L	Group Lat	Design Co	Comp. Co	Design Te	Tension C	L/r	Length	(L/r Comp.	Connectio	Connectio	Net Sectio	Rupture T	RTE End	(RTE Edge	Override	Comp. Capac
1	L 1P	Leg S1	249.906	L/r	297	Net Sect	54	25.1	249.906	0	0	297	0	0	0	0	417.82
2	L 1X	Leg S1	249.906	L/r	297	Net Sect	54	25.1	249.906	0	0	297	0	0	0	0	417.82
3	L 1XY	Leg S1	249.906	L/r	297	Net Sect	54	25.1	249.906	0	0	297	0	0	0	0	417.82
4	L 1Y	Leg S1	249.906	L/r	297	Net Sect	54	25.1	249.906	0	0	297	0	0	0	0	417.82
5	L 2P	Leg S2	220.776	L/r	261.954	Net Sect	54	25.1	220.776	0	0	261.954	0	0	0	0	385.12
6	L 2X	Leg S2	220.776	L/r	261.954	Net Sect	54	25.1	220.776	0	0	261.954	0	0	0	0	385.12
7	L 2XY	Leg S2	220.776	L/r	261.954	Net Sect	54	25.1	220.776	0	0	261.954	0	0	0	0	385.12
8	L 2Y	Leg S2	220.776	L/r	261.954	Net Sect	54	25.1	220.776	0	0	261.954	0	0	0	0	385.12
9	L 3P	Leg S3	191.212	L/r	226.512	Net Sect	54	25.1	191.212	0	0	226.512	0	0	0	0	352.98
10	L 3X	Leg S3	191.212	L/r	226.512	Net Sect	54	25.1	191.212	0	0	226.512	0	0	0	0	352.98
11	L 3XY	Leg S3	191.212	L/r	226.512	Net Sect	54	25.1	191.212	0	0	226.512	0	0	0	0	352.98
12	L 3Y	Leg S3	191.212	L/r	226.512	Net Sect	54	25.1	191.212	0	0	226.512	0	0	0	0	352.98
245	H 5P	Horiz 3	23.9691	L/r	52.0739	Net Sect	133	20.9	23.9691	0	0	52.0739	0	0	0	0	25.7
246	H 5X	Horiz 3	23.9691	L/r	52.0739	Net Sect	133	20.9	23.9691	0	0	52.0739	0	0	0	0	25.7
247	H 5XY	Horiz 3	23.9691	L/r	52.0739	Net Sect	133	20.9	23.9691	0	0	52.0739	0	0	0	0	25.7
248	H 5Y	Horiz 3	23.9691	L/r	52.0739	Net Sect	133	20.9	23.9691	0	0	52.0739	0	0	0	0	25.7
249	H 6P	Horiz 3	23.9691	L/r	52.0739	Net Sect	133	20.9	23.9691	0	0	52.0739	0	0	0	0	25.7
250	H 6X	Horiz 3	23.9691	L/r	52.0739	Net Sect	133	20.9	23.9691	0	0	52.0739	0	0	0	0	25.7
251	H 6XY	Horiz 3	23.9691	L/r	52.0739	Net Sect	133	20.9	23.9691	0	0	52.0739	0	0	0	0	25.7
252	H 6Y	Horiz 3	23.9691	L/r	52.0739	Net Sect	133	20.9	23.9691	0	0	52.0739	0	0	0	0	25.7
253	H 7P	Horiz 4	24.1405	L/r	57.0239	Net Sect	142	12.89	24.1405	0	0	57.0239	0	0	0	0	26.47
254	H 7X	Horiz 4	24.1405	L/r	57.0239	Net Sect	142	12.89	24.1405	0	0	57.0239	0	0	0	0	26.47
255	H 7XY	Horiz 4	24.1405	L/r	57.0239	Net Sect	142	12.89	24.1405	0	0	57.0239	0	0	0	0	26.47
256	H 7Y	Horiz 4	24.1405	L/r	57.0239	Net Sect	142	12.89	24.1405	0	0	57.0239	0	0	0	0	26.47
257	H 8P	Horiz 4	24.1405	L/r	57.0239	Net Sect	142	12.89	24.1405	0	0	57.0239	0	0	0	0	26.47
258	H 8X	Horiz 4	24.1405	L/r	57.0239	Net Sect	142	12.89	24.1405	0	0	57.0239	0	0	0	0	26.47
259	H 8XY	Horiz 4	24.1405	L/r	57.0239	Net Sect	142	12.89	24.1405	0	0	57.0239	0	0	0	0	26.47
260	H 8Y	Horiz 4	24.1405	L/r	57.0239	Net Sect	142	12.89	24.1405	0	0	57.0239	0	0	0	0	26.47
445	LD 13P	LD 7	11.7094	L/r	42.1739	Net Sect	193	12.6	11.7094	0	0	42.1739	0	0	0	0	13.72
446	LD 13X	LD 7	11.7094	L/r	42.1739	Net Sect	193	12.6	11.7094	0	0	42.1739	0	0	0	0	13.72
447	LD 13XY	LD 7	11.7094	L/r	42.1739	Net Sect	193	12.6	11.7094	0	0	42.1739	0	0	0	0	13.72
448	LD 13Y	LD 7	11.7094	L/r	42.1739	Net Sect	193	12.6	11.7094	0	0	42.1739	0	0	0	0	13.72
449	LD 14P	LD 7	11.7094	L/r	42.1739	Net Sect	193	12.6	11.7094	0	0	42.1739	0	0	0	0	13.72
450	LD 14X	LD 7	11.7094	L/r	42.1739	Net Sect	193	12.6	11.7094	0	0	42.1739	0	0	0	0	13.72
451	LD 14XY	LD 7	11.7094	L/r	42.1739	Net Sect	193	12.6	11.7094	0	0	42.1739	0	0	0	0	13.72
452	LD 14Y	LD 7	11.7094	L/r	42.1739	Net Sect	193	12.6	11.7094	0	0	42.1739	0	0	0	0	13.72
453	LD 15P	LD 8	27.6483	L/r	61.9739	Net Sect	136	12.6	27.6483	0	0	61.9739	0	0	0	0	34.81
454	LD 15X	LD 8	27.6483	L/r	61.9739	Net Sect	136	12.6	27.6483	0	0	61.9739	0	0	0	0	34.81
455	LD 15XY	LD 8	27.6483	L/r	61.9739	Net Sect	136	12.6	27.6483	0	0	61.9739	0	0	0	0	34.81
456	LD 15Y	LD 8	27.6483	L/r	61.9739	Net Sect	136	12.6	27.6483	0	0	61.9739	0	0	0	0	34.81
457	LD 16P	LD 8	27.6483	L/r	61.9739	Net Sect	136	12.6	27.6483	0	0	61.9739	0	0	0	0	34.81
458	LD 16X	LD 8	27.6483	L/r	61.9739	Net Sect	136	12.6	27.6483	0	0	61.9739	0	0	0	0	34.81
459	LD 16XY	LD 8	27.6483	L/r	61.9739	Net Sect	136	12.6	27.6483	0	0	61.9739	0	0	0	0	34.81
460	LD 16Y	LD 8	27.6483	L/r	61.9739	Net Sect	136	12.6	27.6483	0	0	61.9739	0	0	0	0	34.81
461	LD 19P	LD 10	13.6773	L/r	42.1739	Net Sect	173	11.29	13.6773	0	0	42.1739	0	0	0	0	15.98
462	LD 19X	LD 10	13.6773	L/r	42.1739	Net Sect	173	11.29	13.6773	0	0	42.1739	0	0	0	0	15.98
463	LD 19XY	LD 10	13.6773	L/r	42.1739	Net Sect	173	11.29	13.6773	0	0	42.1739	0	0	0	0	15.98
464	LD 19Y	LD 10	13.6773	L/r	42.1739	Net Sect	173	11.29	13.6773	0	0	42.1739	0	0	0	0	15.98
465	LD 20P	LD 10	13.6773	L/r	42.1739	Net Sect	173	11.29	13.6773	0	0	42.1739	0	0	0	0	15.98
466	LD 20X	LD 10	13.6773	L/r	42.1739	Net Sect	173	11.29	13.6773	0	0	42.1739	0	0	0	0	15.98
467	LD 20XY	LD 10	13.6773	L/r	42.1739	Net Sect	173	11.29	13.6773	0	0	42.1739	0	0	0	0	15.98
468	LD 20Y	LD 10	13.6773	L/r	42.1739	Net Sect	173	11.29	13.6773	0	0	42.1739	0	0	0	0	15.98
469	LD 21P	LD 11	20.7644	L/r	42.1739	Net Sect	124	8.13	20.7644	0	0	42.1739	0	0	0	0	26.49
470	LD 21X	LD 11	20.7644	L/r	42.1739	Net Sect	124	8.13	20.7644	0	0	42.1739	0	0	0	0	26.49
471	LD 21XY	LD 11	20.7644	L/r	42.1739	Net Sect	124	8.13	20.7644	0	0	42.1739	0	0	0	0	26.49
472	LD 21Y	LD 11	20.7644	L/r	42.1739	Net Sect	124	8.13	20.7644	0	0	42.1739	0	0	0	0	26.49
473	LD 22P	LD 11	20.7644	L/r	42.1739	Net Sect	124	8.13	20.7644	0	0	42.1739	0	0	0	0	26.49
474	LD 22X	LD 11	20.7644	L/r	42.1739	Net Sect	124	8.13	20.7644	0	0	42.1739	0	0	0	0	26.49
475	LD 22XY	LD 11	20.7644	L/r	42.1739	Net Sect	124	8.13	20.7644	0	0	42.1739	0	0	0	0	26.49
476	LD 22Y	LD 11	20.7644	L/r	42.1739	Net Sect	124	8.13	20.7644	0	0	42.1739	0	0	0	0	26.49
477	LD 23P	LD 12	22.4498	L/r	47.1239	Net Sect	129	9.55	22.4498	0	0	47.1239	0	0	0	0	27.85
478	LD 23X	LD 12	22.4498	L/r	47.1239	Net Sect	129	9.55	22.4498	0	0	47.1239	0	0	0	0	27.85
479	LD 23XY	LD 12	22.4498	L/r	47.1239	Net Sect	129	9.55	22.4498	0	0	47.1239	0	0	0	0	27.85
480	LD 23Y	LD 12	22.4498	L/r	47.1239	Net Sect	129	9.55	22.4498	0	0	47.1239	0	0	0	0	27.85
481	LD 24P	LD 12	22.4498	L/r	47.1239	Net Sect	129	9.55	22.4498	0	0	47.1239	0	0	0	0	27.85
482	LD 24X	LD 12	22.4498	L/r	47.1239	Net Sect	129	9.55	22.4498	0	0	47.1239	0	0	0	0	27.85
483	LD 24XY	LD 12	22.4498	L/r	47.1239	Net Sect	129	9.55	22.4498	0	0	47.1239	0	0	0	0	27.85
484	LD 24Y	LD 12	22.4498	L/r	47.1239	Net Sect	129	9.55	22.4498	0	0	47.1239	0	0	0	0	27.85
485	LD 25P	LD 13	14.702	L/r	42.1739	Net Sect	164	10.72	14.702	0	0	42.1739	0	0	0	0	17.34
486	LD 25X	LD 13	14.702	L/r	42.1739	Net Sect	164	10.72	14.702	0	0	42.1739	0	0	0	0	17.34
487	LD 25XY	LD 13	14.702	L/r	42.1739	Net Sect	164	10.72	14.702	0	0	42.1739	0	0	0	0	17.34
488	LD 25Y	LD 13	14.702	L/r	42.1739	Net Sect	164	10.72	14.702	0	0	42.1739	0	0	0	0	17.34
489	LD 26P	LD 13	14.702	L/r	42.1739	Net Sect	164	10.72	14.702	0	0	42.1739	0	0	0	0	17.34
490	LD 26X	LD 13	14.702	L/r	42.1739	Net Sect	164	10.72	14.702	0	0	42.1739	0	0	0	0	17.34
491	LD 26XY	LD 13	14.702	L/r	42.1739	Net Sect	164	10.72	14.702	0	0	42.1739	0	0	0	0	17.34
492	LD 26Y	LD 13	14.702	L/r	42.1739	Net Sect	164	10.72	14.702	0	0	42.1739	0	0	0	0	17.34
493	LD 27P	LD 14	21.1163	L/r	42.1739	Net Sect	122	7.99	21.1163	0	0	42.1739	0	0	0	0	26.99
494	LD 27X	LD 14	21.1163	L/r	42.1739	Net Sect	122	7.99	21.1163	0	0	42.1739	0	0	0	0	26.99
495	LD 27XY	LD 14	21.1163	L/r	42.1739	Net Sect	122	7.99	21.1163	0	0	42.1739	0	0	0	0	26.99
496	LD 27Y	LD 14	21.1														

512	LD 31Y	LD 16	15.7987 L/r	42.1739 Net Sect	156	10.17	15.7987	0	0	42.1739	0	0	0	18.88
513	LD 32P	LD 16	15.7987 L/r	42.1739 Net Sect	156	10.17	15.7987	0	0	42.1739	0	0	0	18.88
514	LD 32X	LD 16	15.7987 L/r	42.1739 Net Sect	156	10.17	15.7987	0	0	42.1739	0	0	0	18.88
515	LD 32XY	LD 16	15.7987 L/r	42.1739 Net Sect	156	10.17	15.7987	0	0	42.1739	0	0	0	18.88
516	LD 32Y	LD 16	15.7987 L/r	42.1739 Net Sect	156	10.17	15.7987	0	0	42.1739	0	0	0	18.88
517	LD 33P	LD 17	21.445 L/r	42.1739 Net Sect	120	7.86	21.445	0	0	42.1739	0	0	0	27.28
518	LD 33X	LD 17	21.445 L/r	42.1739 Net Sect	120	7.86	21.445	0	0	42.1739	0	0	0	27.28
519	LD 33XY	LD 17	21.445 L/r	42.1739 Net Sect	120	7.86	21.445	0	0	42.1739	0	0	0	27.28
520	LD 33Y	LD 17	21.445 L/r	42.1739 Net Sect	120	7.86	21.445	0	0	42.1739	0	0	0	27.28
521	LD 34P	LD 17	21.445 L/r	42.1739 Net Sect	120	7.86	21.445	0	0	42.1739	0	0	0	27.28
522	LD 34X	LD 17	21.445 L/r	42.1739 Net Sect	120	7.86	21.445	0	0	42.1739	0	0	0	27.28
523	LD 34XY	LD 17	21.445 L/r	42.1739 Net Sect	120	7.86	21.445	0	0	42.1739	0	0	0	27.28
524	LD 34Y	LD 17	21.445 L/r	42.1739 Net Sect	120	7.86	21.445	0	0	42.1739	0	0	0	27.28
525	LD 35P	LD 18	18.8725 L/r	42.1739 Net Sect	136	8.88	18.8725	0	0	42.1739	0	0	0	22.87
526	LD 35X	LD 18	18.8725 L/r	42.1739 Net Sect	136	8.88	18.8725	0	0	42.1739	0	0	0	22.87
527	LD 35XY	LD 18	18.8725 L/r	42.1739 Net Sect	136	8.88	18.8725	0	0	42.1739	0	0	0	22.87
528	LD 35Y	LD 18	18.8725 L/r	42.1739 Net Sect	136	8.88	18.8725	0	0	42.1739	0	0	0	22.87
529	LD 36P	LD 18	18.8725 L/r	42.1739 Net Sect	136	8.88	18.8725	0	0	42.1739	0	0	0	22.87
530	LD 36X	LD 18	18.8725 L/r	42.1739 Net Sect	136	8.88	18.8725	0	0	42.1739	0	0	0	22.87
531	LD 36XY	LD 18	18.8725 L/r	42.1739 Net Sect	136	8.88	18.8725	0	0	42.1739	0	0	0	22.87
532	LD 36Y	LD 18	18.8725 L/r	42.1739 Net Sect	136	8.88	18.8725	0	0	42.1739	0	0	0	22.87



CORPORATION

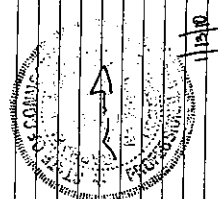
400 REGENCY FOREST DRIVE
CARY, NORTH CAROLINA 27518
PHONE: (919) 488-0112 / FAX: (919) 466-5040

88008 - BETHANY CT, CONNECTICUT

PROJECT SUMMARY

PROJECT SUMMARY						
ATC PROJECT NUMBER	CUSTOMER	CUSTOMER SITE NUMBER	CUSTOMER SITE NAME	SITE ADDRESS	DATE	REV.
44289933	VERIZON	N/A	BETHANY, CT	93 OLD AMITY ROAD BETHANY, CT 06524	01/06/10	0

BILL OF MATERIALS

[illegible]



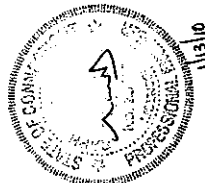
THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER CORPORATION AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR THE CONSTRUCTION OF THE BUILDING. ANY REUSE OR REPRODUCTION OF THE INFORMATION CONTAINED HEREIN BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM AMERICAN TOWER CORPORATION. THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN WITH THE BUILDING AND SHALL NOT BE REPRODUCED OR REPRODUCED WITHOUT PRIOR NOTICE AND WRITTEN CONSENT OF AMERICAN TOWER CORPORATION. THESE SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE TRUE MEANING AND INTENT OF THESE RESTRICTIONS.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	QMB	01/06/10

SITE NUMBER:
88008

SITE NAME:
BETHANY CT
CONNECTICUT

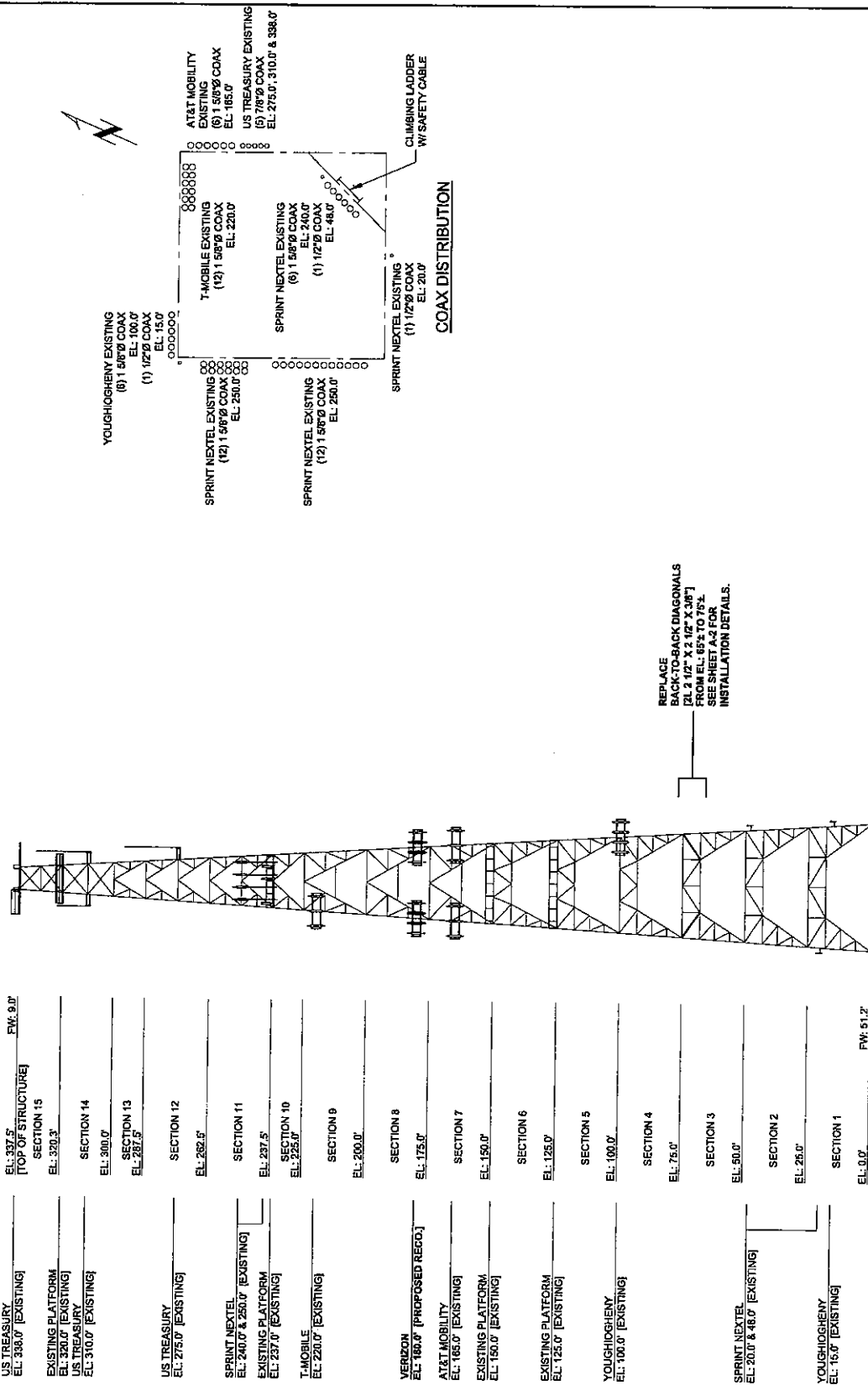
SITE ADDRESS:
93 OLD AMITY ROAD
BETHANY, CT 06524



DRAWN BY:	DMB
CHECKED BY:	BSKL
DATE DRAWN:	01/08/10
ATC JOB NO:	44289933
SHEET TITLE:	

MODIFICATION PROFILE

SHEET NUMBER:	REV. #
A-1	0



TOWER ELEVATION VIEW



AMERICAN TOWER®
STRUCTURAL ENGINEERING
1000 W. BROADWAY
SUITE 200
DARTMOUTH, NEW HAMPSHIRE 03824
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FAX: (603) 424-1113
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REV.	DESCRIPTION	BY	DATE
1	ISSUE	JME	01/28/10

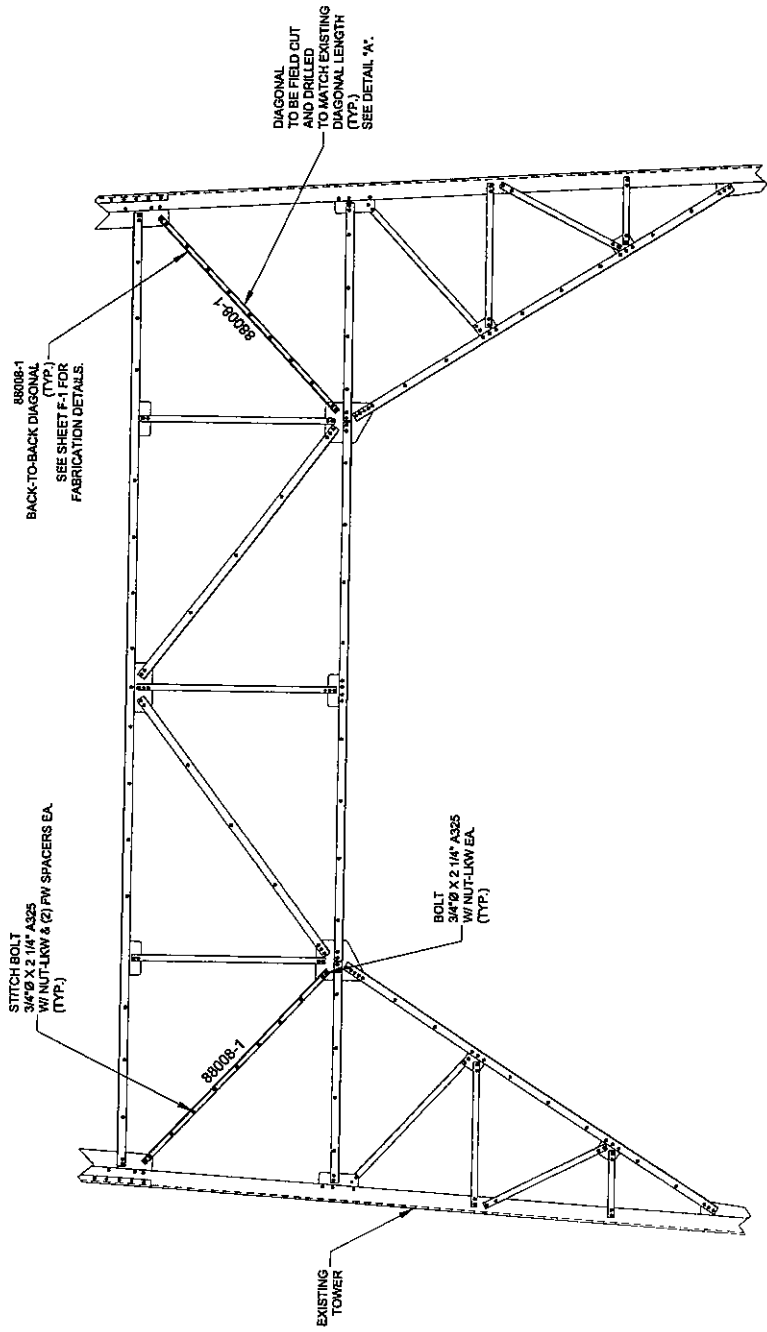
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88008
SITE NAME:
BETHANY CT
CONNECTICUT
SITE ADDRESS:
90 OLD AMITY ROAD
BETHANY, CT 06224



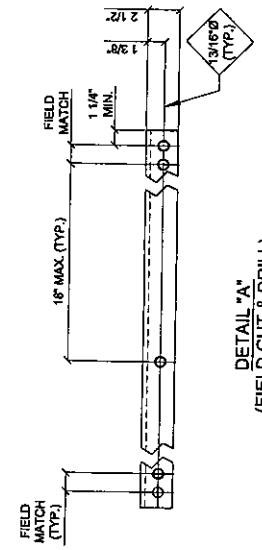
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DATE DRAWN:	01/28/10
ATC JOB NO.:	44288933
SHEET TITLE:	

DIAGONAL REPLACEMENT DETAILS

SHEET NUMBER:	A-2
REV. #	0



ELEVATION VIEW
(SECTION 3)



DETAIL "A"
(FIELD CUT & DRILL)

EL: 75'-0"

EL: 50'-0"



AMERICAN TOWER*
STRUCTURAL ENGINEERING
 400 REGENCY FOREST DRIVE
 CAPTOWN, NORTH CAROLINA 27518
 PHONE: (919) 465-5040
 FAX: (919) 465-5040
 NYSE:AMT

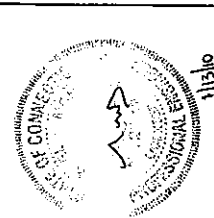
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REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	DMB	01/08/10

SITE NUMBER:
88008

SITE NAME:
BETHANY CT
CONNECTICUT

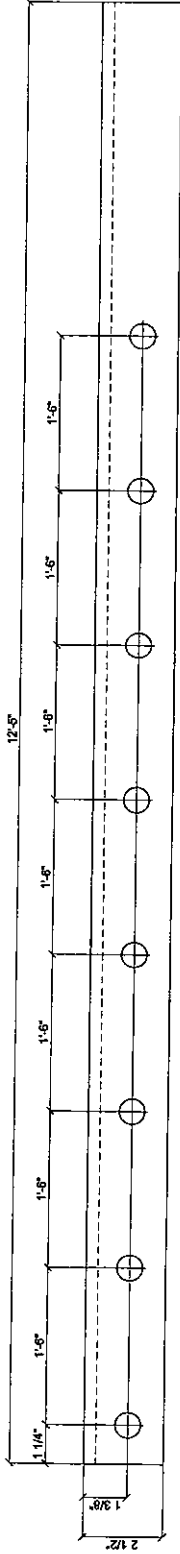
SITE ADDRESS:
88 OLD AMITY ROAD
BETHANY, CT 06824



DRAWN BY:	DMB
CHECKED BY:	DKL
DATE DRAWN:	01/08/10
ATC JOB NO:	44269603
SHEET TITLE:	

DIAGONAL FABRICATION DETAILS

SHEET NUMBER:	F-1	REV. #	0
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88008-1
DIAGONAL

88008-1	L 2 1/2" X 2 1/2" X 3/8"	12'-5"	73.3#	76.9#
PART NO.	DESCRIPTION	LENGTH	BLK WT	GALV WT
MATERIAL: A36	FINISH: GALVANIZED	NOTES	HOLES: 13/16"	