



nextel

ORIGINAL

48 Spruce Street
Oakland, NJ 07436
Phone: (845) 499-4712
Jennifer Palumbo

January 28, 2013

Hand Delivered

Ms. Linda Roberts
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RECEIVED
JAN 30 2013

**CONNECTICUT
SITING COUNCIL**

RE: Sprint Spectrum L.P. notice of intent to modify an existing telecommunications facility located at 93 Old Amity Road, Bethany, CT 06524. Known to Sprint Spectrum L.P. as site CT03XC043.

Dear Ms. Roberts:

In order to accommodate technological changes, implement Code Division Multiple Access ("CDMA") and/or Long Term Evolution ("LTE") capabilities, and enhance system performance in the state of Connecticut, Sprint Spectrum L.P. plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and its attachments is being sent to the chief elected official of the municipality in which affected cell site is located.

CDMA employs Spread-Spectrum technology and special coding scheme to allow multiple users to be multiplexed over the same physical channel. LTE is a new high-performance air interface for cellular mobile communications. It is designed to increase the capacity and speed of mobile telephone networks.

As part of the project the new multi-mode 800/1900 antenna will replace existing antennas. These antennas will provide more flexibility for optimization by allowing fast and easy electrical tilt adjustment from remote location and will enable the transmission of multiple technologies from a single antenna. As Sprint Nextel's network evolves to meet the demands of its customers, it is essential for Sprint Nextel to install modern equipment and antennas in order to provide reliable wireless voice and data services. The

proposed equipment will include multi-mode radios that will allow Sprint Nextel to transmit at different frequencies using different technologies, including LTE technology. Likewise, the proposed antennas are quad-pole multi-band high gain antennas that will allow Sprint to operate using its multiple frequency bands and technologies, including LTE technology. The proposed equipment and antennas will improve the reliability, coverage and capacity of Sprint Nextel's voice and data networks across Sprint Nextel's various FCC licensed frequency bands and significantly increase the data speeds of Sprint Nextel's network by utilizing the latest LTE technology. Without the proposed modifications Sprint Nextel will be unable to provide reliable wireless voice and data service using the latest technologies.

Sprint Spectrum L.P. will have an interim (testing) period during the modification/installation prior to the final configuration. This antenna configuration is shown on the attached drawings of the planned modifications. Also included is the power density calculation reflecting the change in Sprint's operations at the site and documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modification as defined Connecticut General Statutes ("C.G.S.") Section 16-50j(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for the R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will not be affected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound.
3. The proposed changes will not increase the noise level at the existing facility by 6 decibels or more.
4. Radio Frequency power density may increase due to the use of one or more CDMA transmissions. Moreover, LTE will utilize additional radio frequencies newly licensed by the FCC for cellular mobile communications. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons Sprint Spectrum L.P. respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (845)-499-4712 or email JPalumbo@Transcendwireless.com with questions concerning this matter.
Thank you for your consideration.

Sincerely,

Jennifer Palumbo
Real Estate Consultant



AMERICAN TOWER®
CORPORATION

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 : Sprint Nextel

Carrier Site Name : Bethany, CT (American Towers, Inc.)

Carrier Site Number : CT03XC043

County : New Haven

Eng. Number : 49564721

Date : June 28, 2012

Usage : 104%

Result : Fail

Submitted by:
Avery B. Long, E.I.
Design Engineer

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



7/3/12

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 Rd., Bethany, CT 06524, New Haven County (ATC site #88008). The tower was originally designed and manufactured to AT&T Tag Type 'H' standards in 1966 by the Flint Steel Corporation. Tower geometry and member information was taken from a structural analysis by CSEI (Eng. #73115244, dated November 18, 2002). The tower has been modified per design by ATC (Project #44269933, dated January 6, 2010).

Analysis

The tower was analyzed using Semaan Engineering Solutions, Inc., Software.

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 & 2009 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 w/ Handrails	(2) 7/8	US Treasury
	--	--		(1) 7/8	Unknown
320.0	--	--	Catwalk	--	--
310.0	1	Sinclair SC381-HL	Sector Frame	(2) 7/8	US Treasury
	1	Sinclair SC281-L			
287.5	--	--	Rest Platform	--	--
275.0	1	Sinclair SC281-L	Sector Frame	(1) 7/8	US Treasury
250.0	12	Decibel DB844H90E-XY	Pipes	(12) 1 5/8	Sprint Nextel
237.0	--	--	Working Platform	--	--
220.0	6	Remec S20057A1	Sector Frames	(12) 1 5/8 (1) 0.315	T-Mobile
	3	RFS APX16PV-16PVL-E-00			
	6	RCU			
204.8	6	Andrew DB980H90E-M	Leg	(6) 1 5/8	Sprint Nextel
200.0	--	--	Rest Platform	--	--
194.0	1	Andrew DB616E-BC	Side Arm	(1) 1 1/4	US Treasury
180.0	6	RFS FD9R6004/1C-3L	Sector Frames	(12) 1 5/8 (1) 1/2	Verizon
	3	Powerwave P65-16-XL-2			
	3	Ryma MGD3-800TX			
	6	Andrew DB844H90E-XY			
	1	GPS			
165.0	3	Raycap DC2-48-60-0-9E	Sector Frames	(1) 3" Cond. (1) 10mm (2) 19.7mm (12) 1 5/8	AT&T Mobility
	3	Allgon LGP 21901			
	1	Raycap FC12-PC6-10E			
	6	Ericsson RRUS 11 (Band 12)			
	2	Andrew SBNH-1D6565C			
	1	KMW AM-X-CD-16-65-00T-RET			
	6	Allgon 7770.00			
6	Powerwave LGP21401				
150.0	--	--	Rest Platform	--	--
125.0	--	--	Working Platform	--	--

Existing Antennas (Continued)

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
100.0	3	RFS APXV18-206517S-C	Leg	(6) 1 5/8	Metro PCS
48.0	1	PCTEL GPS-TMB	Leg	(1) 1/2	Sprint Nextel
20.0	1	Nortel NTGB01MA	Leg	(1) 7/8	Metro PCS

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
240.0	3	RFS APXVSPPI8-C-A20	Pipes	(3) 1 1/4	Sprint Nextel
	3	Alcatel-Lucent 1900 MHz 4X45 RRH			
	3	Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter			

Install proposed coax on same tower face as existing coax.

Results

The maximum structure usage is: 104%

Leg Forces	Current Analysis Reactions
Uplift (Kips)	346.8
Axial (Kips)	467.2

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. These calculations are located after the software output within this analysis. The foundations & anchor bolts have a safety factor greater than or equal to 2.

Conclusion

Based on the analysis results, the structure **does not** meet requirements per the ANSI/TIA/EIA-222-F standard and the 2003 IBC w/ 2005 CT Supplement & 2009 CT Amendments.

The tower and foundation can support the existing and proposed equipment after the modifications listed below are completed:

- Reinforce tower diagonals from 150 ft to 175 ft.
- Reinforce outermost trussed diagonals from 93 ft to 100 ft.
- Reinforce innermost trussed diagonals from 118 ft to 125 ft.
- Reinforce trussed horizontal at 93 ft.
- Reinforce horizontal at 75 ft.

If you have any questions or require additional information, please call 919-466-5069.

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 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.

American Tower Corp., Project: "88008-sprint-06262012"
Tower Version 12.10, 12:51:34 PM Thursday, June 28, 2012
Undeformed geometry displayed

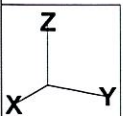
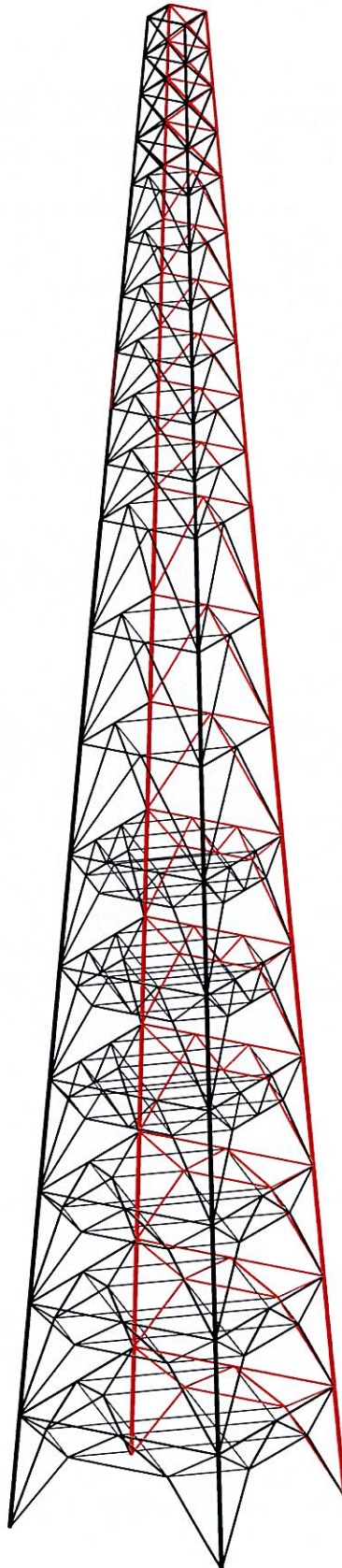


Table with 10 columns: Angle, Steel, Max Usage, Max Comp, Comp. Force, Comp. Connect, L/R, Comp. Connect, Comp. Bearing, RLY, R/L, L/R, KL/R, Length, Curve, No. Of Bolts. It lists various steel angles and their usage statistics.

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

Group Summary (Compression Portion):

Large table showing group summary for compression portion. Columns include Group Label, Group Angle Descr. Type, Angle Size Strength, Steel, Max Usage, Max Comp, Comp. Force, Comp. Connect, L/R, Comp. Connect, Comp. Bearing, RLY, R/L, L/R, KL/R, Length, Curve, No. Of Bolts. Rows list various members like Leg 21, Leg 22, etc.

Group Summary (Tension Portion):

Large table showing group summary for tension portion. Columns include Group Label, Group Angle Descr. Type, Angle Size Strength, Steel, Max Usage, Max Tension, Tension Tension, Section Connect, Tension Connect, Tension Connect, Length, Tens., No. Of Diameter, Hole. Rows list various members like Leg 21, Leg 22, etc.

Horiz 4	B/B L3.5"x2.5"x0.125"	DAL 3.5X2.5X0.125	36.0	95.50	Comp 43.66	H 7X	37.575	W -90	62.208	0.000	0.000	0.000	13.057	0.0000	0
Horiz 5	B/B L3.5"x2.5"x0.125"	DAL 3.5X2.5X0.125	36.0	94.81	Comp 39.96	H 11P	30.170	W 90	56.808	0.000	0.000	0.000	10.940	0.0000	0
Horiz 6	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	70.11	Comp 18.99	H 14P	14.376	W 0	56.808	0.000	0.000	0.000	14.812	0.0000	0
Horiz 7	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	48.23	Comp 10.09	H 16P	11.433	W 0	56.808	0.000	0.000	0.000	13.234	0.0000	0
Horiz 8	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	47.89	Comp 9.87	H 18P	9.505	W 180	51.408	0.000	0.000	0.000	11.646	0.0000	0
Horiz 9	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	36.15	Comp 11.49	H 20P	7.874	W 180	51.408	0.000	0.000	0.000	10.852	0.0000	0
Horiz 10	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	26.90	Comp 8.56	H 22P	6.552	W 180	51.408	0.000	0.000	0.000	10.058	0.0000	0
Horiz 11	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	20.13	Comp 8.07	H 24P	5.830	W 180	51.408	0.000	0.000	0.000	9.264	0.0000	0
Horiz 12	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	13.78	Comp 6.70	H 27P	4.993	W 90	51.408	0.000	0.000	0.000	8.470	0.0000	0
Horiz 13	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	9.61	Comp 6.11	H 30P	4.195	W 0	51.408	0.000	0.000	0.000	7.676	0.0000	0
Horiz 14	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	5.24	Comp 4.82	H 31P	3.419W 45	10w	28.296	0.000	0.000	0.000	6.882	0.0000	0
Horiz 15	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	1.51	Tens 1.51	H 33P	1.141	W 0	56.808	0.000	0.000	0.000	11.161	0.0000	0
Horiz 16	L 1" x 1.5" x 0.125"	SAU 3X2.5X0.125	36.0	1.04	Tens 1.04	H 35P	0.768	W 0	28.296	0.000	0.000	0.000	10.080	0.0000	0
Horiz 17	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	1.29	Comp 0.51	H 37P	0.498	W 90	73.008	0.000	0.000	0.000	9.000	0.0000	0
Horiz 18	L 1" x 1.5" x 0.125"	SAU 3X2.5X0.125	36.0	72.63	Comp 23.53	LD 2Y	21.955W 45	12	69.984	0.000	0.000	0.000	14.066	0.0000	0
LD 1	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	86.63	Comp 37.30	LD 3E	44.398	W 90	90.288	0.000	0.000	0.000	14.066	0.0000	0
LD 2	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	90.16	Comp 26.85	LD 3Y	18.403	W -45	51.408	0.000	0.000	0.000	13.384	0.0000	0
LD 3	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	94.92	Comp 45.02	LD 3P	43.823	W -90	73.008	0.000	0.000	0.000	13.384	0.0000	0
LD 4	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	71.62	Comp 13.17	LD 14Y	18.157	W -45	74.251	0.000	0.000	0.000	12.716	0.0000	0
LD 5	B/B L3"x2.5"x0.125"	DAL 3X2.5X0.125	36.0	98.53	Comp 47.20	LD 15P	42.549	W -90	67.608	0.000	0.000	0.000	12.716	0.0000	0
LD 6	B/B L2.5"x2.0"x0.25"	DAL 2.5X2.0X0.25	36.0	103.63	Comp 33.69	LD 20Y	20.665	W -45	45.008	0.000	0.000	0.000	11.361	0.0000	0 NG
LD 7	B/B L2.5"x2.0"x0.25"	DAL 2.5X2.0X0.25	36.0	86.93	Comp 44.03	LD 21P	27.007	W -90	46.008	0.000	0.000	0.000	8.160	0.0000	0
LD 8	B/B L2.5"x2.0"x0.25"	DAL 2.5X2.0X0.25	36.0	89.89	Comp 50.05	LD 23X	34.302	W -90	51.408	0.000	0.000	0.000	5.604	0.0000	0
LD 9	B/B L2.5"x2.0"x0.25"	DAL 2.5X2.0X0.25	36.0	95.86	Comp 41.56	LD 26Y	19.972	W -45	46.008	0.000	0.000	0.000	10.793	0.0000	0
LD 10	B/B L2.5"x2.0"x0.25"	DAL 2.5X2.0X0.25	36.0	82.87	Comp 43.45	LD 27P	26.654	W -90	46.008	0.000	0.000	0.000	8.014	0.0000	0 NG
LD 11	B/B L2.5"x2.0"x0.25"	DAL 2.5X2.0X0.25	36.0	81.95	Comp 30.84	LD 32Y	18.979	W -45	46.008	0.000	0.000	0.000	10.229	0.0000	0
LD 12	B/B L2.5"x2.0"x0.25"	DAL 2.5X2.0X0.25	36.0	79.24	Comp 41.21	LD 33P	26.282	W -90	46.008	0.000	0.000	0.000	7.876	0.0000	0
LD 13	B/B L2.5"x2.0"x0.25"	DAL 2.5X2.0X0.25	36.0	99.07	Comp 50.37	LD 35X	30.396	W -90	46.008	0.000	0.000	0.000	8.919	0.0000	0
LH 1	B/B L1.5"x3"x0.125"	DAS 3X2.5X0.125	36.0	56.19	Comp 16.52	LH 1Y	10.511	W 0	56.308	0.000	0.000	0.000	24.350	0.0000	0
LH 2	B/B L1.5"x3"x0.125"	DAS 3X2.5X0.125	36.0	37.75	Comp 8.16	LH 3Y	6.178	W 0	56.808	0.000	0.000	0.000	22.762	0.0000	0
LH 3	B/B L1.5"x3"x0.125"	DAS 3X2.5X0.125	36.0	36.43	Comp 8.69	LH 5Y	5.279	W 0	56.308	0.000	0.000	0.000	21.174	0.0000	0
LH 4	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	102.16	Comp 29.99	LH 8Y	22.718	W -45	56.808	0.000	0.000	0.000	10.647	0.0000	0 NG
LH 5	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	90.48	Comp 25.15	LH 10Y	21.319	W -45	56.808	0.000	0.000	0.000	9.820	0.0000	0
LH 6	B/B L2.5"x3"x0.25"	DAS 3X2.5X0.25	36.0	72.10	Comp 25.59	LH 12Y	19.380	W -45	56.308	0.000	0.000	0.000	8.293	0.0000	0
DIM 1	Dummy Bracing Member	DIM 0.1X0.1X1	36.0	0.70	0.00	BR 13X	0.396	W -45	0.116	0.000	0.000	0.000	20.361	0.0000	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	102.75	D 14P	Angle NG
W 180	103.32	D 14Y	Angle NG
W 45	95.69	LD 19P	Angle
W -45	103.63	LD 19X	Angle NG
W 90	103.37	D 13P	Angle NG
W -90	103.93	D 13X	Angle NG
W 0 Ice	91.59	D 14P	Angle
W 180 Ice	92.41	D 14Y	Angle
W 45 Ice	89.96	LD 19P	Angle
W -45 Ice	93.91	LD 19X	Angle
W 90 Ice	92.09	D 13P	Angle
W -90 Ice	92.87	D 13X	Angle

*** Weight of structure (lbs):
 Weight of Angles*Section DLF: 176113.2
 Total: 176113.2

*** End of Report

Site #: B8008
Name: Bethany CT, CT

Engineer: ABL
Date: 06/28/12

Windspeed: No Ice 85 mph
Carrier Sprint Nextel

Ice: 74 mph
Drop Sub-brace (Y or Blank)

Taper: -0.127037
FW @ Base: 51.875 ft

Taper Change: 337.5 ft
FW @ Top: 9 ft

Joint Label	Symmetry Code	X Coord. (ft)	Y Coord. (ft)	Z Coord. (ft)	X Dip. Rest.	Y Dip. Rest.	Z Dip. Rest.	X Ret. Rest.	Y Ret. Rest.	Z Ret. Rest.	Drop (ft)	Height (ft)	Type	Count	Z Elev. (ft)	FW (ft)	# Sub-Brace
0	X-Symmetry	25.9375	25.9375	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	7.03	25	1	1	0	51.875	3
1	X-Symmetry	24.34953704	24.34953704	25	Free	Free	Free	Free	Free	Free	7.03	25	1	2	25	48.6907407	3
2	X-Symmetry	22.76157407	22.76157407	50	Free	Free	Free	Free	Free	Free	7.03	25	1	3	50	45.5314815	3
3	X-Symmetry	21.17361111	21.17361111	75	Free	Free	Free	Free	Free	Free	7.03	25	2	4	75	42.3472222	3
4	X-Symmetry	19.58564815	19.58564815	100	Free	Free	Free	Free	Free	Free	7.03	25	2	5	100	39.1712963	3
5	X-Symmetry	17.99768519	17.99768519	125	Free	Free	Free	Free	Free	Free	7.03	25	2	6	125	35.99537037	3
6	X-Symmetry	16.40972222	16.40972222	150	Free	Free	Free	Free	Free	Free	7.03	25	2	7	150	32.81944444	2
7	X-Symmetry	14.82175926	14.82175926	175	Free	Free	Free	Free	Free	Free	7.03	25	2	8	175	29.64351852	2
8	X-Symmetry	13.2337963	13.2337963	200	Free	Free	Free	Free	Free	Free	7.03	25	2	9	200	26.46759259	2
9	X-Symmetry	11.64583333	11.64583333	225	Free	Free	Free	Free	Free	Free	7.03	25	2	10	225	23.29166667	1
10	X-Symmetry	10.05787037	10.05787037	250	Free	Free	Free	Free	Free	Free	7.03	25	2	11	250	20.11574074	1
11	X-Symmetry	8.469907407	8.469907407	275	Free	Free	Free	Free	Free	Free	7.03	25	2	12	275	18.52777778	1
12	X-Symmetry	6.881944444	6.881944444	300	Free	Free	Free	Free	Free	Free	7.03	25	2	13	300	16.93981481	1
13	X-Symmetry	5.29395926	5.29395926	325	Free	Free	Free	Free	Free	Free	7.03	25	2	14	325	15.35185185	1
14	X-Symmetry	3.705972222	3.705972222	350	Free	Free	Free	Free	Free	Free	7.03	25	2	15	350	13.76388889	1
15	X-Symmetry	2.117961111	2.117961111	375	Free	Free	Free	Free	Free	Free	7.03	25	2	16	375	12.175926	1
16	X-Symmetry	0.529958889	0.529958889	400	Free	Free	Free	Free	Free	Free	7.03	25	2	17	400	10.5883	1
17	X-Symmetry	0.045179444	0.045179444	425	Free	Free	Free	Free	Free	Free	7.03	25	2	18	425	9.00035889	1
18	X-Symmetry	0	0	450	Free	Free	Free	Free	Free	Free	7.03	25	2	19	450	7.412473033	1
19	X-Symmetry	0	0	475	Free	Free	Free	Free	Free	Free	7.03	25	2	20	475	5.824817778	1
20	X-Symmetry	0	0	500	Free	Free	Free	Free	Free	Free	7.03	25	2	21	500	4.2373033	1
21	X-Symmetry	24.34953704	24.34953704	25	Free	Free	Free	Free	Free	Free	7.03	25	1	1	25	23.29166667	1
22	X-Symmetry	22.76157407	22.76157407	50	Free	Free	Free	Free	Free	Free	7.03	25	1	2	50	20.11574074	1
23	X-Symmetry	21.17361111	21.17361111	75	Free	Free	Free	Free	Free	Free	7.03	25	1	3	75	18.52777778	1
24	X-Symmetry	19.58564815	19.58564815	100	Free	Free	Free	Free	Free	Free	7.03	25	1	4	100	16.93981481	1
25	X-Symmetry	17.99768519	17.99768519	125	Free	Free	Free	Free	Free	Free	7.03	25	1	5	125	15.35185185	1
26	X-Symmetry	16.40972222	16.40972222	150	Free	Free	Free	Free	Free	Free	7.03	25	1	6	150	13.76388889	1
27	X-Symmetry	14.82175926	14.82175926	175	Free	Free	Free	Free	Free	Free	7.03	25	1	7	175	12.175926	1
28	X-Symmetry	13.2337963	13.2337963	200	Free	Free	Free	Free	Free	Free	7.03	25	1	8	200	10.5883	1
29	X-Symmetry	11.64583333	11.64583333	225	Free	Free	Free	Free	Free	Free	7.03	25	1	9	225	9.00035889	1
30	X-Symmetry	10.05787037	10.05787037	250	Free	Free	Free	Free	Free	Free	7.03	25	1	10	250	7.412473033	1
31	X-Symmetry	8.469907407	8.469907407	275	Free	Free	Free	Free	Free	Free	7.03	25	1	11	275	5.824817778	1
32	X-Symmetry	6.881944444	6.881944444	300	Free	Free	Free	Free	Free	Free	7.03	25	1	12	300	4.2373033	1
33	X-Symmetry	5.29395926	5.29395926	325	Free	Free	Free	Free	Free	Free	7.03	25	1	13	325	2.64977222	1
34	X-Symmetry	3.705972222	3.705972222	350	Free	Free	Free	Free	Free	Free	7.03	25	1	14	350	1.0617	1
35	X-Symmetry	2.117961111	2.117961111	375	Free	Free	Free	Free	Free	Free	7.03	25	1	15	375	0.4730333	1
36	X-Symmetry	0.529958889	0.529958889	400	Free	Free	Free	Free	Free	Free	7.03	25	1	16	400	0	1
37	X-Symmetry	0.045179444	0.045179444	425	Free	Free	Free	Free	Free	Free	7.03	25	1	17	425	0	1
38	X-Symmetry	0	0	450	Free	Free	Free	Free	Free	Free	7.03	25	1	18	450	0	1
39	X-Symmetry	0	0	475	Free	Free	Free	Free	Free	Free	7.03	25	1	19	475	0	1
40	X-Symmetry	0	0	500	Free	Free	Free	Free	Free	Free	7.03	25	1	20	500	0	1

NOTES:
1: Built up Horis. w/ A
2: Built up Horis. w/ M
A: Typical A brace
X: Typical X brace

Drop: Use only for types 1 & 2
Sections: 19

Spreadsheet Version	Last Updated:	2/24/2012
Count	FW (ft)	# Sub-Brace
1	0	3
2	51.875	3
3	48.6907407	3
4	45.5314815	3
5	42.3472222	3
6	39.1712963	3
7	35.99537037	3
8	32.81944444	2
9	29.64351852	2
10	26.46759259	2
11	23.29166667	1
12	20.11574074	1
13	18.52777778	1
14	16.93981481	1
15	15.35185185	1
16	13.76388889	1
17	12.175926	1
18	10.5883	1
19	9.00035889	1
20	7.412473033	1
21	5.824817778	1
22	4.2373033	1
23	2.64977222	1
24	1.0617	1
25	0.4730333	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1

Legs

Site No.:	88008
Engineer:	ABL
Date:	06/28/2012
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 = Schifflerized 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:	ABL
Date:	06/28/2012
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		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	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:	ABL
Date:	06/28/2012
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:	ABL
Date:	06/28/2012
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		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:	ABL
Date:	06/28/2012
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	
2	25.00-50.00	2L		2.5	3	0.25	36	
3	50.00-75.00	2L		2.5	3	0.25	36	
4	75.00-100.0	2L		2.5	3	0.25	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.: Engineer:	88008 ABL	Date: Carrier:	06/28/12 Sprint Nextel
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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)
Aband 1	0	337.5	1	Round	1.11	3.5	0.544	No	No
USCG 1	0	337.5	2	Round	1.11	3.5	0.544	No	No
USCG 2	0	310	2	Round	1.11	3.5	0.544	No	No
USCG 3	0	275	1	Round	1.11	3.5	0.544	No	No
Sprint Nextel 1	0	250	12	Round	1.98	6.2	1.08	Yes	Yes
Sprint Nextel 2	0	240	3	Round	1.55	4.9	1	No	No
T-Mobile	0	220	1	Round	11.88	30.0	12.96	No	No
T-Mobile 2	0	220	1	Round	0.315	1.0	0.064	No	No
US Treasury 1	0	194	1	Round	1.55	4.9	0.664	No	No
Verizon 1	0	180	1	Round	11.88	30.0	12.96	Yes	Yes
Verizon 2	0	180	1	Round	0.63	2.0	0.144	No	No
AT&T Mobility 1	0	165	1	Round	11.88	30.0	12.96	No	No
Metro PCS	0	100	6	Round	1.98	6.2	1.08	No	No
Sprint Nextel 3	0	48	1	Round	0.63	2.0	0.144	No	No
AT&T Mobility 2	0	165	1	Round	3.5	11.0	7.58	No	No
AT&T Mobility 3	0	165	1	Round	0.39	1.2	0.07	No	No
AT&T Mobility 4	0	165	1	Round	0.78	4.0	0.59	No	No
Metro PCS 3	0	20	1	Round	1.09	3.4	0.144	No	No
Sprint Nextel 5	0	204.8	6	Round	1.98	6.2	1.08	No	No

Site #: 88008
Name: Sprint Nextel

Engineer: ABL
Date: 06/28/12

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	1.585195713	1.320996427	1.320996427	1	1.2
25.00-50.00		1P	1.590007719	1.325006432	1.325006432	1	1.2
50.00-75.00		2P	1.605588167	1.337990139	1.337990139	1	1.2
75.00-100.00		3P	1.478926854	1.232439045	1.232439045	1	1.2
100.0-125.0		4P	1.472824734	1.227353945	1.227353945	1	1.2
125.0-150.0		5P	1.47553471	1.229612258	1.229612258	1	1.2
150.0-175.0		6P	1.545180868	1.287650723	1.287650723	1	1.2
175.0-200.0		7P	1.527887654	1.273239712	1.273239712	1	1.2
200.0-225.0		8P	1.516391419	1.263659516	1.263659516	1	1.2
225.0-237.5		9P	1.478249179	1.231874316	1.231874316	1	1.2
237.5-250.0		10P	1.471209196	1.226007664	1.226007664	1	1.2
250.0-262.5		11P	1.464012143	1.220010119	1.220010119	1	1.2
262.5-275.0		12P	1.456672479	1.213893733	1.213893733	1	1.2
275.0-287.5		13P	1.449208368	1.20767364	1.20767364	1	1.2
287.5-300.0		14P	1.441641869	1.201368224	1.201368224	1	1.2
300.0-310.2		15P	1.384856588	1.154047156	1.154047156	1	1.2
310.2-320.3		16P	1.436421012	1.19701751	1.19701751	1	1.2
320.3-328.9		17P	1.393105127	1.160920939	1.160920939	1	1.2
328.9-337.5		18P	1.346209977	1.121841647	1.121841647	1	1.2

Site #:	88008
Name:	Sprint Nextel

Engineer:	ABL
Date:	06/28/12

Group Label	Group Description	Angle Type	Angle Size	Material Type	Element Type	Group Type	Optimize Group
Leg S1	L 8" x 8" x 1.125"	SAE	8X8X1.13	A 36	Beam	Leg	None
Leg S2	L 8" x 8" x 1.125"	SAE	8X8X1.13	A 36	Beam	Leg	None
Leg S3	L 8" x 8" x 1.125"	SAE	8X8X1.13	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	T-Only	Other	None
Diag S17	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	A 36	T-Only	Other	None
Diag S18	L 3" x 3" x 0.25"	SAE	3X3X0.25	A 36	T-Only	Other	None
Diag S19	L 3" x 3" x 0.25"	SAE	3X3X0.25	A 36	T-Only	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"x2.5"x0.375"	DAE	2.5X2.5X0.38	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:	Sprint Nextel

Engineer:	ABL
Date:	06/28/12

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	6	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	0.46	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	0.9	0.9	0.9
H 8	Horiz 4		XY-Symmetry	4P	A8P	1	6	0.9	0.9	0.9
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	1.2	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	0.6	0.5
H 36	Horiz 18		X-Symmetry	18P	18Y	3	6	0.5	0.6	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	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	0.94	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		6	0.904	0.904	0.904
LD 15	LD 8		XY-Symmetry	H9P	A5P		6	0.904	0.904	0.904
LD 16	LD 8		XY-Symmetry	H10P	A6P		6	0.904	0.904	0.904
LD 19	LD 10		XY-Symmetry	H13P	4P		6	0.83	0.83	0.83
LD 20	LD 10		XY-Symmetry	H14P	4P		6	0.83	0.83	0.83
LD 21	LD 11		XY-Symmetry	H13P	A7P		6	0.85	0.85	0.85
LD 22	LD 11		XY-Symmetry	H14P	A8P		6	0.85	0.85	0.85
LD 23	LD 12		XY-Symmetry	A7P	H15P		6	0.86	0.86	0.86
LD 24	LD 12		XY-Symmetry	A8P	H16P		6	0.86	0.86	0.86
LD 25	LD 13		XY-Symmetry	H17P	5P		6	0.83	0.83	0.83
LD 26	LD 13		XY-Symmetry	H18P	5P		6	0.83	0.83	0.83
LD 27	LD 14		XY-Symmetry	H17P	A9P		6	0.85	0.85	0.85
LD 28	LD 14		XY-Symmetry	H18P	A10P		6	0.85	0.85	0.85
LD 29	LD 15		XY-Symmetry	A9P	H19P		6	0.86	0.86	0.86
LD 30	LD 15		XY-Symmetry	A10P	H20P		6	0.86	0.86	0.86
LD 31	LD 16		XY-Symmetry	H21P	6P		6	0.83	0.83	0.83
LD 32	LD 16		XY-Symmetry	H22P	6P		6	0.83	0.83	0.83
LD 33	LD 17		XY-Symmetry	H21P	A11P		6	0.85	0.85	0.85
LD 34	LD 17		XY-Symmetry	H22P	A12P		6	0.85	0.85	0.85
LD 35	LD 18		XY-Symmetry	A11P	H23P		6	0.86	0.86	0.86
LD 36	LD 18		XY-Symmetry	A12P	H24P		6	0.86	0.86	0.86
BR 1	DUM 1		XY-Symmetry	A1P	A2P		4	1	1	1
BR 3	DUM 1		XY-Symmetry	A3P	A4P		4	1	1	1
BR 5	DUM 1		XY-Symmetry	A5P	A6P		4	1	1	1
BR 7	DUM 1		XY-Symmetry	A7P	A8P		4	1	1	1
BR 8	DUM 1		XY-Symmetry	A7P	A8XY		4	1	1	1
BR 9	DUM 1		XY-Symmetry	A9P	A10P		4	1	1	1
BR 10	DUM 1		XY-Symmetry	A9P	A10XY		4	1	1	1
BR 11	DUM 1		XY-Symmetry	A11P	A12P		4	1	1	1
BR 12	DUM 1		XY-Symmetry	A11P	A12XY		4	1	1	1
BR 13	DUM 1		XY-Symmetry	A13P	A14P		4	1	1	1
BR 15	DUM 1		XY-Symmetry	A15P	A16P		4	1	1	1
BR 17	DUM 1		XY-Symmetry	A17P	A18P		4	1	1	1
BR 19	DUM 1		XY-Symmetry	A19P	A20P		4	1	1	1
BR 21	DUM 1		XY-Symmetry	A21P	A22P		4	1	1	1
BR 23	DUM 1		XY-Symmetry	A23P	A24P		4	1	1	1
BR 25	DUM 1		XY-Symmetry	A25P	A26P		4	1	1	1
BR 27	DUM 1		XY-Symmetry	A27P	A28P		4	1	1	1
BR 29	DUM 1		XY-Symmetry	A29P	A30P		4	1	1	1
BR 61	DUM 1		XY-Symmetry	H1P	H2P		4	1	1	1
BR 62	DUM 1		XY-Symmetry	H1P	H2XY		4	1	1	1
BR 64	DUM 1		XY-Symmetry	H5P	H6P		4	1	1	1
BR 65	DUM 1		XY-Symmetry	H5P	H6XY		4	1	1	1
BR 67	DUM 1		XY-Symmetry	H9P	H10P		4	1	1	1
BR 68	DUM 1		XY-Symmetry	H9P	H10XY		4	1	1	1
BR 70	DUM 1		XY-Symmetry	H13P	H14P		4	1	1	1
BR 71	DUM 1		XY-Symmetry	H13P	H14XY		4	1	1	1
BR 72	DUM 1		XY-Symmetry	H15P	H16P		4	1	1	1
BR 73	DUM 1		XY-Symmetry	H17P	H18P		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

Site: 88008
Carrier: Sprint Nextel

Engineer: ABL
Date: 06/28/12

Load Case Description	Dead Load Factor	Wind Load Factor	Ice Load Factor	Strength Factor	Allowable Stress Inc.	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	73.61	0	0.5	56	10	
W 180 Ice	1.1	1	1	1	1.333333333	73.61	180	0.5	56	10	
W 45 Ice	1.1	1	1	1	1.333333333	73.61	45	0.5	56	10	
W -45 Ice	1.1	1	1	1	1.333333333	73.61	-45	0.5	56	10	
W 90 Ice	1.1	1	1	1	1.333333333	73.61	90	0.5	56	10	
W -90 Ice	1.1	1	1	1	1.333333333	73.61	-90	0.5	56	10	

Angle: 0

Noise

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	1713.23	0.00	1588.2			
19X	776.94	0.00	1500			
19Y	776.94	0.00	1500			
19XY	776.94	0.00	1500			
16P	795.88	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	932.38	0.00	379			
13X	0.00	0.00	0			
13Y	0.00	0.00	0			
13XY	0.00	0.00	0			
11P	578.70	0.00	256			
11X	578.70	0.00	256			
11Y	578.70	0.00	256			
11XY	0.00	0.00	0			
10P	235.68	0.00	260			
10X	235.68	0.00	260			
10Y	235.68	0.00	260			
10XY	0.00	0.00	0			
9P	597.68	0.00	439.6			
9X	597.68	0.00	439.6			
9Y	597.68	0.00	439.6			
9XY	0.00	0.00	0			
7P	506.92	0.00	326.2			
7X	506.92	0.00	326.2			
7Y	506.92	0.00	326.2			
7XY	0.00	0.00	0			
7P	266.81	0.00	52.8			
7X	266.81	0.00	52.8			
7Y	266.81	0.00	52.8			
7XY	0.00	0.00	0			
7P	592.95	0.00	420			
7X	592.95	0.00	420			
7Y	592.95	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	2.00	0.00	5			
2X	0.00	0.00	0			
2Y	0.00	0.00	0			
2XY	0.00	0.00	0			
1P	1.78	0.00	1			
1X	0.00	0.00	0			
1Y	0.00	0.00	0			
1XY	0.00	0.00	0			
8P	428.86	0.00	201			
8X	0.00	0.00	0			
8Y	0.00	0.00	0			
8XY	0.00	0.00	0			
10P	240.13	0.00	121			
10X	240.13	0.00	121			
10Y	240.13	0.00	121			
10XY	0.00	0.00	0			
17P	525.86	0.00	1000			
17X	525.86	0.00	1000			
17Y	525.86	0.00	1000			
17XY	525.86	0.00	1000			
10P	263.25	0.00	625			
10X	263.25	0.00	625			
10Y	263.25	0.00	625			
10XY	263.25	0.00	625			
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			
7P	13.08	0.00	21.5			
7X	13.08	0.00	21.5			
7Y	13.08	0.00	21.5			
7XY	0.00	0.00	0			
7P	120.52	0.00	125			
7X	94.63	0.00	100			
7Y	94.63	0.00	100			
7XY	0.00	0.00	0			
7P	426.12	0.00	109.3			
7X	253.57	0.00	60.8			
7Y	0.00	0.00	0			
7XY	0.00	0.00	0			
8P	401.26	0.00	500			
8X	0.00	0.00	0			
8Y	0.00	0.00	0			
8XY	0.00	0.00	0			
14P	445.10	0.00	500			
14X	0.00	0.00	0			
14Y	0.00	0.00	0			
14XY	0.00	0.00	0			
8P	175.75	0.00	17			
8X	175.75	0.00	17			
8Y	175.75	0.00	17			
8XY	0.00	0.00	0			

With Ice

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)
19P	1520.28	0.00	2235.659954
19X	786.61	0.00	1950
19Y	786.61	0.00	1950
19XY	786.61	0.00	1950
16P	785.30	0.00	489.8321759
16X	0.00	0.00	0
16Y	0.00	0.00	0
16XY	0.00	0.00	0
16P	358.13	0.00	169.6435185
16X	0.00	0.00	0
16Y	0.00	0.00	0
16XY	0.00	0.00	0
13P	902.27	0.00	559.6435185
13X	0.00	0.00	0
13Y	0.00	0.00	0
13XY	0.00	0.00	0
11P	527.17	0.00	421.1944444
11X	527.17	0.00	421.1944444
11Y	527.17	0.00	421.1944444
11XY	0.00	0.00	0
10P	230.87	0.00	343.1340278
10X	230.87	0.00	343.1340278
10Y	230.87	0.00	343.1340278
10XY	0.00	0.00	0
9P	577.04	0.00	590.6459722
9X	577.04	0.00	590.6459722
9Y	577.04	0.00	590.6459722
9XY	0.00	0.00	0
7P	483.76	0.00	470.5924074
7X	483.76	0.00	470.5924074
7Y	483.76	0.00	470.5924074
7XY	0.00	0.00	0
7P	237.22	0.00	103.2677778
7X	237.22	0.00	103.2677778
7Y	237.22	0.00	103.2677778
7XY	0.00	0.00	0
7P	557.57	0.00	590.2685185
7X	557.57	0.00	590.2685185
7Y	557.57	0.00	590.2685185
7XY	0.00	0.00	0
4P	97.65	0.00	53.12833333
4X	97.65	0.00	53.12833333
4Y	97.65	0.00	53.12833333
4XY	0.00	0.00	0
2P	2.03	0.00	6.5
2X	0.00	0.00	0
2Y	0.00	0.00	0
2XY	0.00	0.00	0
1P	2.08	0.00	2.976851852
1X	0.00	0.00	0
1Y	0.00	0.00	0
1XY	0.00	0.00	0
8P	424.36	0.00	306.5451389
8X	0.00	0.00	0
8Y	0.00	0.00	0
8XY	0.00	0.00	0
10P	206.00	0.00	189.7185185
10X	206.00	0.00	189.7185185
10Y	206.00	0.00	189.7185185
10XY	0.00	0.00	0
17P	532.40	0.00	1300
17X	532.40	0.00	1300
17Y	532.40	0.00	1300
17XY	532.40	0.00	1300
10P	266.53	0.00	812.5
10X	266.53	0.00	812.5
10Y	266.53	0.00	812.5
10XY	266.53	0.00	812.5
6P	623.67	0.00	1300
6X	0.00	0.00	0
6Y	0.00	0.00	0
6XY	0.00	0.00	0
5P	444.01	0.00	1300
5X	444.01	0.00	1300
5Y	0.00	0.00	0
5XY	0.00	0.00	0
7P	12.09	0.00	31.515
7X	12.09	0.00	31.515
7Y	12.09	0.00	31.515
7XY	0.00	0.00	0
7P	117.75	0.00	171.26625
7X	95.81	0.00	130
7Y	95.81	0.00	130
7XY	0.00	0.00	0
7P	382.98	0.00	189.7177315
7X	208.29	0.00	126.6677315
7Y	0.00	0.00	0
7XY	0.00	0.00	0
8P	406.26	0.00	650
8X	0.00	0.00	0
8Y	0.00	0.00	0
8XY	0.00	0.00	0
14P	450.64	0.00	650
14X	0.00	0.00	0
14Y	0.00	0.00	0
14XY	0.00	0.00	0
8P	155.27	0.00	58.94814815
8X	155.27	0.00	58.94814815
8Y	155.27	0.00	58.94814815
8XY	0.00	0.00	0

Foundation

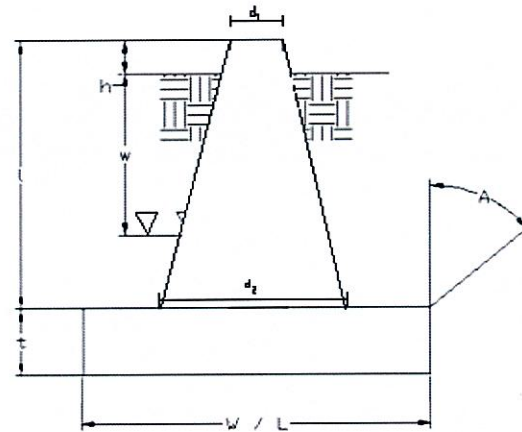
Design Loads (Factored)

Compression/Leg:	467.23	k
Uplift/Leg:	346.75	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):	20	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):	65.0	pcf
Friction Angle of Uplift (A):	0	°
Allowable Compressive Bearing Pressure:	8700	psf
Allowable Skin Friction:	630	psf

Volume Pier (Total):	247.10	ft ³
Volume Pad (Total):	1155.63	ft ³
Volume Soil (Total):	2881.58	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:	377.49	k

Site No.:	88008
Engineer:	ABL
Date:	06/28/12
Carrier:	Sprint Nextel



Ultimate Skin Friction:	135.45	k
Difference in Soil Volume 1:	993.04	ft ³
Difference in Soil Volume 2:	168.92	ft ³
Difference in Soil Weight:	152.22	k

Uplift Check

Uplift Resistance (k)	Ratio	Result
361.67	0.96	OK

Axial Check

Axial Resistance (k)	Ratio	Result
4021.58	0.12	OK

Anchor Bolt Check

Bolt Description: (6) 2-1/4" A36

ϕR_{nt}	Ratio	Result
456.60	0.76	OK



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RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS

Sprint Existing Facility

Site ID: CT03XC043

Bethany
93 Old Amity Road
Bethany, CT 06524

August 21, 2012



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August 21, 2012

Sprint

Attn: RF Engineering Manager
1 International Boulevard, Suite 800
Mahwah, NJ 07495

Re: Emissions Values for Site **CT03XC043 – Bethany**

EBI Consulting was directed to analyze the proposed upgrades to the existing Sprint facility located at 93 Old Amity Road, Bethany, CT, for the purpose of determining whether the emissions from the proposed Sprint equipment upgrades on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limit for the cellular band is approximately $567 \mu\text{W}/\text{cm}^2$, and the general population exposure limit for the PCS band is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed upgrades to the existing Sprint Wireless antenna facility located at 93 Old Amity Road, Bethany, CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. All calculations were performed assuming the main lobe of the antenna was focused at the base of the tower to present a worst case scenario. Actual values seen from this site will be dramatically less than those shown in this report. For this report the sample point is the top of a 6 foot person standing at the base of the tower.

For all calculations, all emissions were calculated using the following assumptions:

- 1) 2 CDMA Carriers (1900 MHz) were considered for each sector of the proposed installation.
- 2) 1 CDMA Carrier (850 MHz) was considered for each sector of the proposed installation
- 3) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 4) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The actual gain in this direction was used per the manufactures supplied specifications.
- 5) The antenna used in this modeling is the RFS APXVSP18-C-A20. This is based on feedback from the carrier with regards to anticipated antenna selection. This antenna has a 15.9 dBd gain value at its main lobe at 1900 MHz and 13.4 dBd at its main lobe for 850 MHz. All calculations were performed assuming the main lobe of the antenna was focused at the base of the tower to present a worst case scenario.



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- 6) The antenna mounting height centerline of the proposed antennas is **240.7 feet** above ground level (AGL)
- 7) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculation were done with respect to uncontrolled / general public threshold limits

Site ID	CT03XC043 - Bethany																
Site Address	93 Old Amity Road, Bethany, CT 06524																
Site Type	Self Support Tower																
Sector 1																	
Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	RFS	APXVSP18-C-A20	RRH	1900 MHz	CDMA / LTE	20	2	40	15.9	240.7	234.7	1/2 "	0.5	0	1386.9474	9.051901	0.90519%
1a	RFS	APXVSP18-C-A20	RRH	850 MHz	CDMA / LTE	20	1	20	13.4	240.7	234.7	1/2 "	0.5	0	389.96892	2.545129	0.44888%
Sector total Power Density Value:																1.354%	
Sector 2																	
Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
2a	RFS	APXVSP18-C-A20	RRH	1900 MHz	CDMA / LTE	20	2	40	15.9	240.7	234.7	1/2 "	0.5	0	1386.9474	9.051901	0.90519%
2a	RFS	APXVSP18-C-A20	RRH	850 MHz	CDMA / LTE	20	1	20	13.4	240.7	234.7	1/2 "	0.5	0	389.96892	2.545129	0.44888%
Sector total Power Density Value:																1.354%	
Sector 3																	
Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
3a	RFS	APXVSP18-C-A20	RRH	1900 MHz	CDMA / LTE	20	2	40	15.9	240.7	234.7	1/2 "	0.5	0	1386.9474	9.051901	0.90519%
3a	RFS	APXVSP18-C-A20	RRH	850 MHz	CDMA / LTE	20	1	20	13.4	240.7	234.7	1/2 "	0.5	0	389.96892	2.545129	0.44888%
Sector total Power Density Value:																1.354%	

Site Composite MPE %	
Carrier	MPE %
Sprint	4.062%
AT&T	2.850%
Pocket	6.810%
Verizon Wireless	6.240%
Industrial Comm.	1.590%
Nextel	1.600%
T-Mobile	0.910%
Rescue 21	2.100%
Total Site MPE %	26.162%



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Summary

All calculations performed for this analysis yielded results that were well within the allowable limits for general public exposure to RF Emissions.

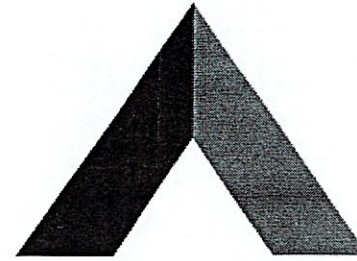
The anticipated Maximum Composite contributions from the Sprint facility are **4.062% (1.354% from each sector)** of the allowable FCC established general public limit considering all three sectors simultaneously sampled at the ground level.

The anticipated composite MPE value for this site assuming all carriers present is **26.162%** of the allowable FCC established general public limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government

Scott Heffernan
RF Engineering Director

EBI Consulting
21 B Street
Burlington, MA 01803



AMERICAN TOWER®

C O R P O R A T I O N

ATC TOWER SERVICES, INC.
 400 REGENCY FOREST DRIVE
 CARY, NORTH CAROLINA 27518
 PHONE: (919) 468-0112 / FAX: (919) 466-5040

88008 - BETHANY CT, CONNECTICUT

337.5 FT AT&T TAG TYPE "H" SELF SUPPORT TOWER MODIFICATIONS

PROJECT DESCRIPTION:

THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 49564721 DATED 06/28/12. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.

AS-BUILT SIGN-OFF		
DESCRIPTION	SIGNATURE	DATE
CONTRACTOR NAME		
CONTRACTOR REP. (PRINT NAME)		
CONTRACTOR REP. (SIGNATURE)		
REDEVELOPMENT P.M. (PRINT NAME)		
REDEVELOPMENT P.M. (SIGNATURE)		

PROJECT SUMMARY		SHEET	SHEET TITLE	REV.	
ATC PROJECT NUMBER: 49564732		BOM	BILL OF MATERIALS (1 PAGE)	0	
CUSTOMER: SPRINT NEXTEL		IGN	IBC GENERAL NOTES	0	
CUSTOMER SITE NUMBER: CT03XC043		A-1	MODIFICATION PROFILE	0	
CUSTOMER SITE NAME: BETHANY, CT (AMERICAN TOWERS, INC.)		A-2	REINFORCEMENT PLATE INSTALLATION DETAILS	0	
SITE ADDRESS: 93 OLD AMITY ROAD BETHANY, CT 06524		A-3	TRUSS DIAGONAL & SUB-HORIZONTAL INSTALLATION DETAILS	0	
DATE: 07/05/12		A-4	DIAGONAL UPGRADE INSTALLATION DETAILS	0	
REVISION: 0		F-1	ANGLE & REINFORCEMENT PLATE FABRICATION DETAILS	0	

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the state of Connecticut.

BILL OF MATERIALS

QUANTITY REQUIRED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTION	LENGTH	SHEET LIST	PART WEIGHT	WEIGHT (lb)	NOTES	
MATERIAL & HARDWARE									
4	4	88008-1	PL 1/2" X 5 1/2"	41'-9"	A-2, F-1	447.5	1790		
8	8	88008-2	L 3" X 3" X 3/8"	21'-6"	A-3, F-1	162.5	1300		
16	16	88008-3	L 3" X 3" X 1/4"	12'-3"	A-3, F-1	63.0	1008		
16	16	88008-4	L 3" X 3" X 1/4"	9'-8"	A-3, F-1	49.7	795		
16	16	88008-5	L 3" X 3" X 3/8"	30'-5"	A-4, F-1	230.0	3680		
192	202	----	BOLT, 3/4"Ø ASTM A325	2"	----	----	----	HHN-LKW / GALVANIZED	
144	151	----	BOLT, 3/4"Ø ASTM A325	2 1/4"	----	----	----	HHN-LKW / GALVANIZED	
272	286	----	BOLT, 3/4"Ø ASTM A325	2 1/2"	----	----	----	HHN-LKW / GALVANIZED	
416	437	----	FLAT WASHER, 3/4"Ø	----	----	----	----	GALVANIZED [SPACERS]	
							TOTAL WEIGHT (lb)	8,573	

AMERICAN TOWER®
ATC TOWER SERVICES, INC.
 400 REGENCY FOREST DRIVE
 SUITE 300
 CARY, NC 27518
 PHONE: (919) 468-0112
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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	DMB	07/05/12

ATC SITE NUMBER:
88008

ATC SITE NAME:
BETHANY CT
CONNECTICUT

SITE ADDRESS:
93 OLD AMITY ROAD
BETHANY, CT 06524

DRAWN BY:	DMB
APPROVED BY:	
DATE DRAWN:	07/05/12
ATC JOB NO:	49564732

BILL OF MATERIALS

SHEET NUMBER:	REV. #
BOM	0

GENERAL

- ALL METHODS, MATERIALS AND WORKMANSHIP SHALL FOLLOW THE DICTATES OF GOOD CONSTRUCTION PRACTICE.
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
- ANY SUBSTITUTIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ANY MANUFACTURED DESIGN ELEMENTS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER TIA-1019-A-2011, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
- CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

STRUCTURAL STEEL

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- ALL U-BOLTS SHALL BE ASTM A307 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
- FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
- ALL FIELD CUT SURFACES AND FIELD DRILLED HOLES SHALL BE REPAIRED WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.

WELDING

- ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
- PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

BOLT TIGHTENING PROCEDURE

- STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2004 (SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS.)
- TIGHTEN FLANGE BOLTS BY AISC "TURN-OF-THE-NUT" METHOD, USING THE CHART BELOW:

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS

1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
5/8"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT

BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS

1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75 TO 7.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS 4.75 TO 9.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS 5.25 TO 10.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS 5.75 TO 11.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS 6.25 TO 12.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT

- SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

8.2.1 TURN-OF-NUT PRETENSIONING

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.

- ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

PAINT

- AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 70/7460-1K.

APPLICABLE CODES AND STANDARDS

- ANSI/TIA/EIA: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, 222-F EDITION.
- 2003 INTERNATIONAL BUILDING CODE WITH 2005 CONNECTICUT SUPPLEMENTS AND 2009 CONNECTICUT AMENDMENTS.
- ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 318-02.
- CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
- AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
- AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

SPECIAL INSPECTION

- A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH IBC 2003, SECTION 1704 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
 - STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY)
 - HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 EXTENSION FLANGE BOLTS TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD)
- THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH IBC 2003, SECTION 1704, UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTIONS.



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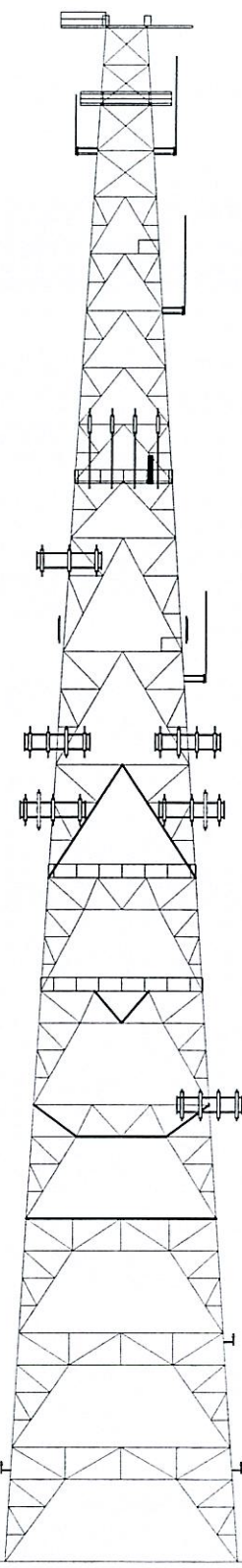
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ATC JOB NO:	49564732

SHEET TITLE:
IBC GENERAL NOTES

SHEET NUMBER:	IGN	REV. #	0
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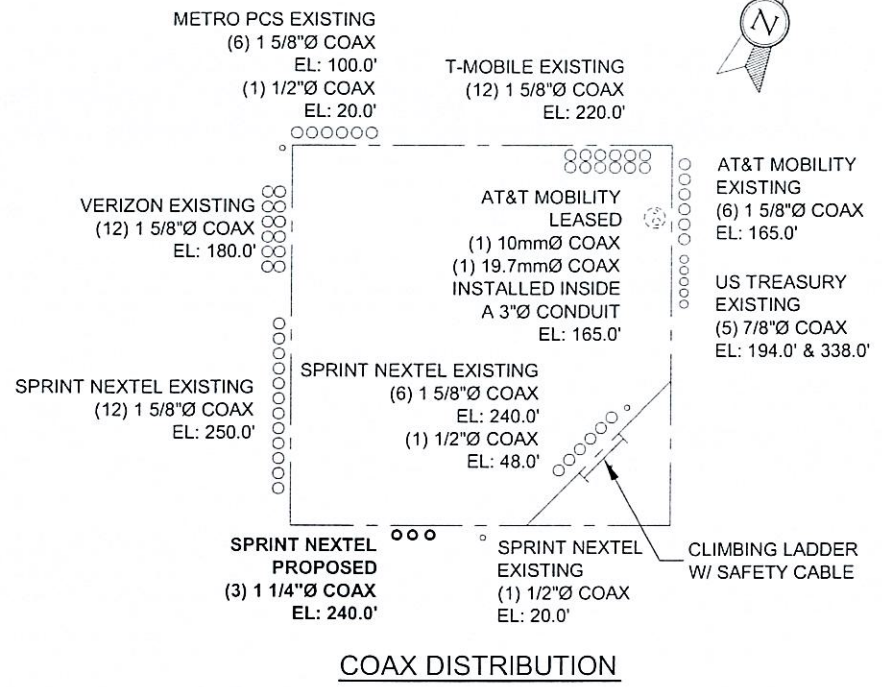
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US TREASURY EL: 338.0' [EXISTING]	EL: 337.5' [TOP OF STRUCTURE]	FW: 9.0'
SECTION 15		
EXISTING PLATFORM EL: 320.0' [EXISTING]	EL: 320.3'	
US TREASURY EL: 310.0' [EXISTING]	SECTION 14	
	EL: 300.0'	
SECTION 13		
EXISTING PLATFORM EL: 287.5' [EXISTING]	EL: 287.5'	
SECTION 12		
US TREASURY EL: 275.0' [EXISTING]		
SPRINT NEXTEL EL: 250.0' [EXISTING]	EL: 262.5'	
SECTION 11		
SPRINT NEXTEL EL: 240.0' [PROPOSED RECO.]		
EXISTING PLATFORM EL: 237.0' [EXISTING]	EL: 237.5'	
SECTION 10		
T-MOBILE EL: 220.0' [EXISTING]	EL: 225.0'	
SPRINT NEXTEL EL: 204.8' [EXISTING]	SECTION 9	
EXISTING PLATFORM EL: 200.0' [EXISTING]	EL: 200.0'	
US TREASURY EL: 194.0' [EXISTING]	SECTION 8	
VERIZON EL: 180.0' [EXISTING]	EL: 175.0'	
SECTION 7		
AT&T MOBILITY EL: 165.0' [EXISTING]		
EXISTING PLATFORM EL: 150.0' [EXISTING]	EL: 150.0'	
SECTION 6		
EXISTING PLATFORM EL: 125.0' [EXISTING]	EL: 125.0'	
SECTION 5		
METRO PCS EL: 100.0' [EXISTING]	EL: 100.0'	
SECTION 4		
	EL: 75.0'	
SECTION 3		
SPRINT NEXTEL EL: 48.0' [EXISTING]	EL: 50.0'	
SECTION 2		
	EL: 25.0'	
SECTION 1		
METRO PCS & SPRINT NEXTEL EL: 20.0' [EXISTING]	EL: 0.0'	FW: 51.2'
	[BOTTOM OF STRUCTURE]	



TOWER ELEVATION VIEW

- UPGRADE DIAGONALS
[2L 3" X 3" X 3/8"]
FROM EL: 150.0' TO 175.0'.
SEE SHEET A-4
FOR INSTALLATION DETAILS.
- UPGRADE INNER TRUSS DIAGONALS
[2L 3" X 3" X 1/4"]
FROM EL: 118.0' TO 125.0'.
SEE SHEET A-3 FOR INSTALLATION DETAILS.
- UPGRADE OUTER TRUSS DIAGONALS
[2L 3" X 3" X 1/4"]
& SUB-HORIZONTAL
[2L 3" X 3" X 3/8"]
FROM EL: 93.0' TO 100.0'.
SEE SHEET A-3 FOR INSTALLATION DETAILS.
- INSTALL REINFORCEMENT PLATE
[PL 1/2" X 5 1/2"] ON MAIN HORIZONTAL
AT EL: 75.0'
SEE SHEET A-2
FOR INSTALLATION DETAILS.



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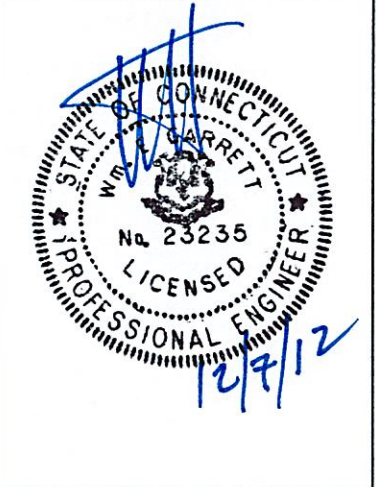
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CONNECTICUT**

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93 OLD AMITY ROAD
BETHANY, CT 06524



DRAWN BY:	DMB
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SHEET TITLE:
MODIFICATION PROFILE

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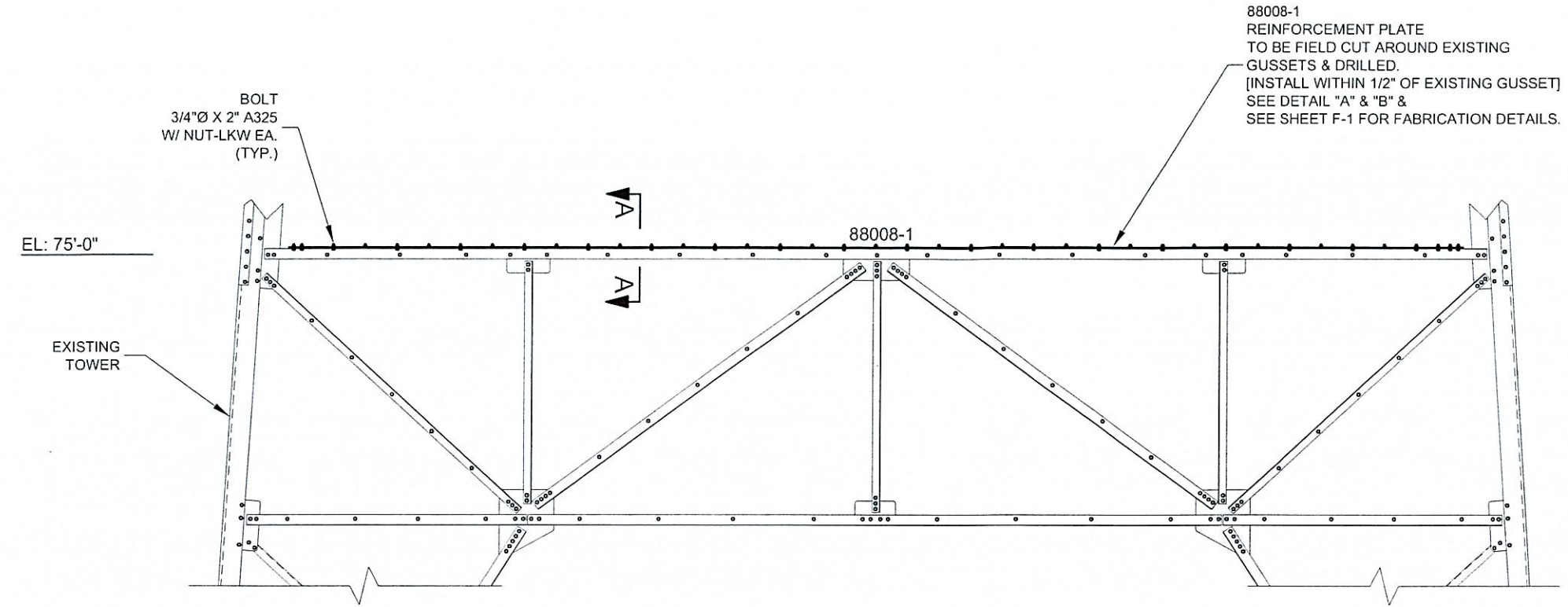
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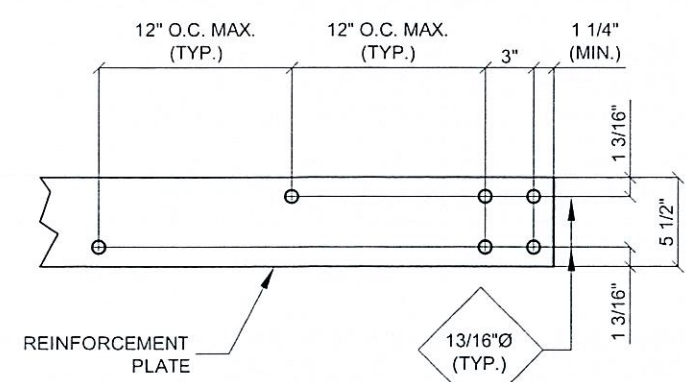
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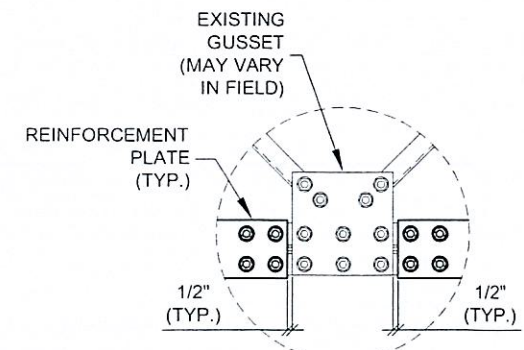
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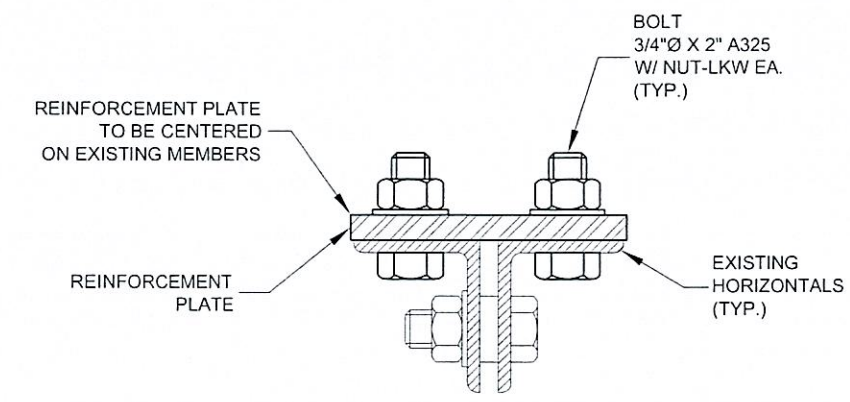
**ELEVATION VIEW
 SECTION 3**



**DETAIL "A"
 TYPICAL FIELD CUT & DRILL
 [DETAIL APPLIES TO BOTH ENDS OF PLATE]**



**DETAIL "B"
 CLEARANCE DETAIL
 TYPICAL GUSSET**



**SECTION "A-A"
 TYPICAL DETAIL**

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SHEET TITLE:
**REINFORCEMENT PLATE
 INSTALLATION DETAILS**

SHEET NUMBER:	REV. #
A-2	0



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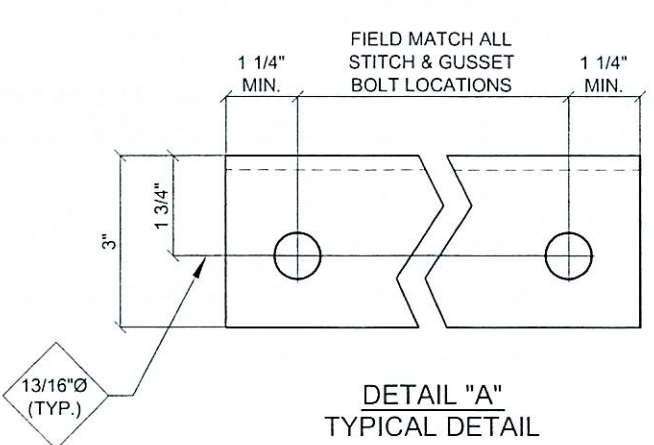
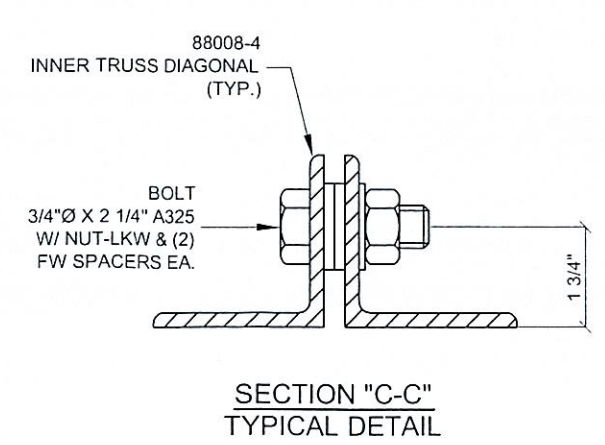
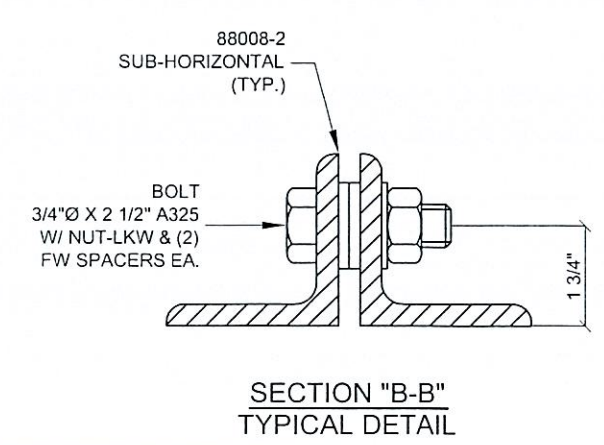
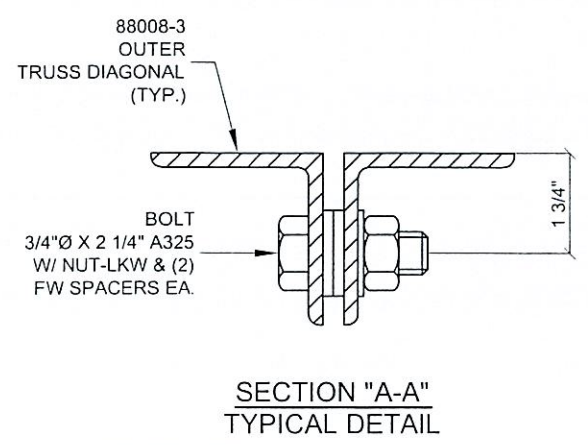
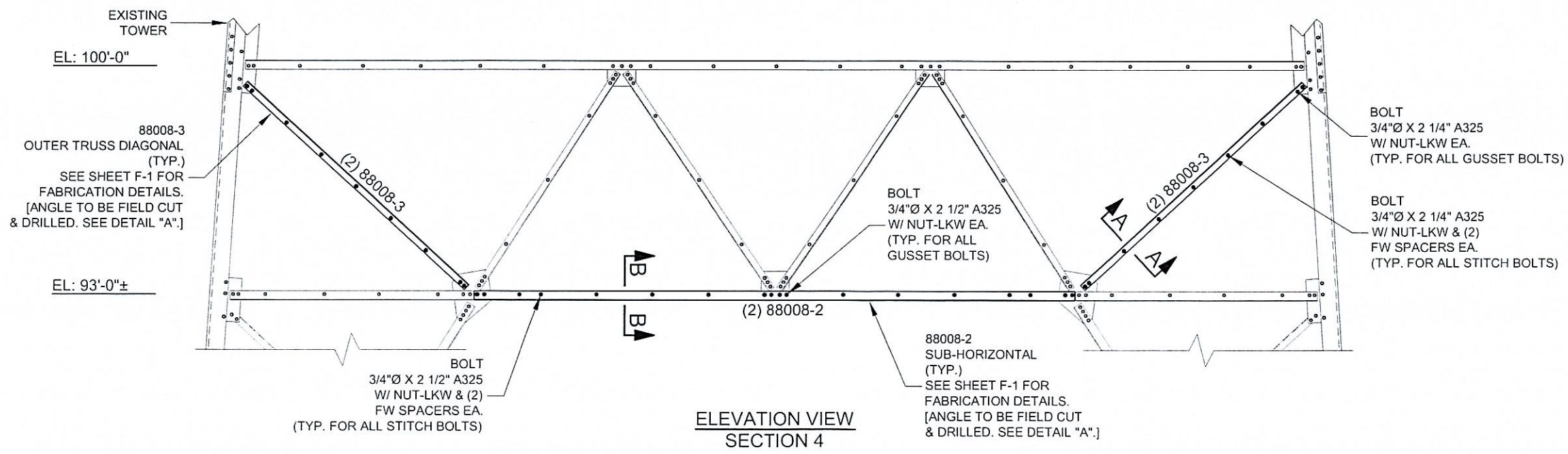
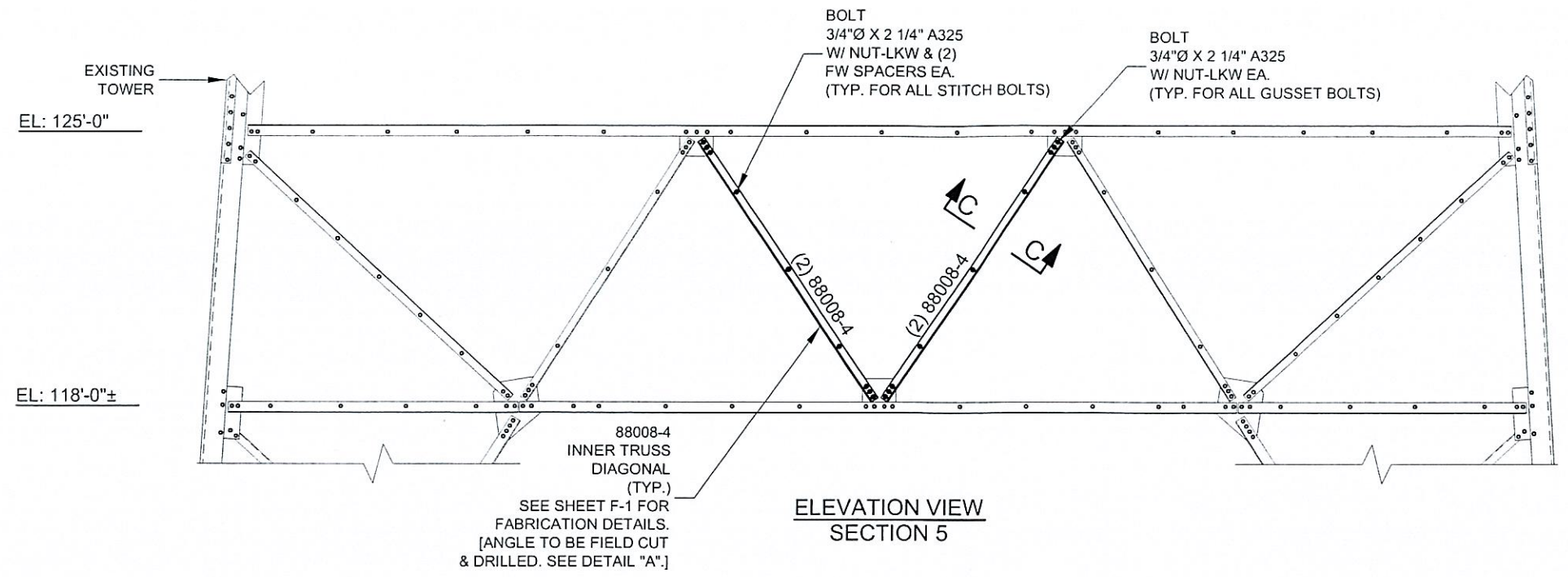
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SHEET TITLE:
TRUSS DIAGONAL & SUB-HORIZONTAL INSTALLATION DETAILS

SHEET NUMBER:	A-3	REV. #	0
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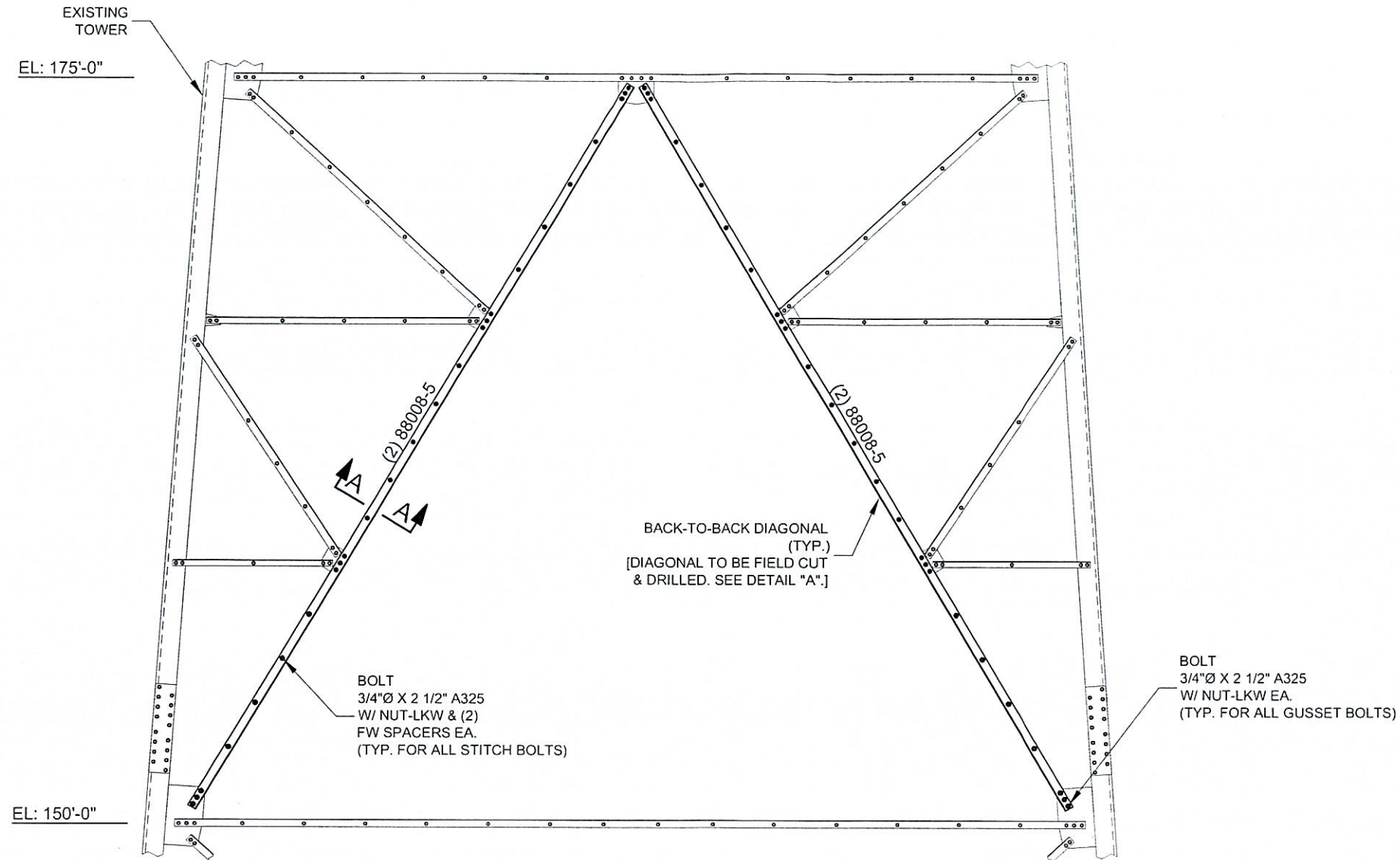
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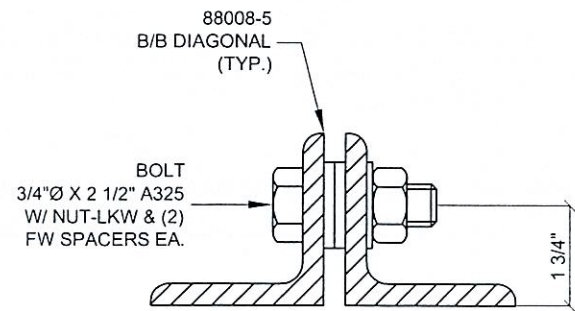
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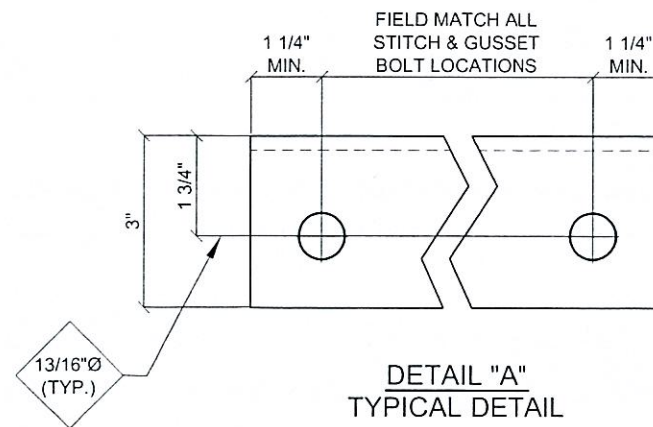
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93 OLD AMITY ROAD
BETHANY, CT 06524



ELEVATION VIEW
SECTION 7



SECTION "A-A"
TYPICAL DETAIL



DETAIL "A"
TYPICAL DETAIL

DRAWN BY:	DMB
APPROVED BY:	
DATE DRAWN:	07/05/12
ATC JOB NO:	49564732
SHEET TITLE:	

DIAGONAL UPGRADE
INSTALLATION DETAILS

SHEET NUMBER:	REV. #
A-4	0



AMERICAN TOWER®
ATC TOWER SERVICES, INC.
 400 REGENCY FOREST DRIVE
 SUITE 300
 CARY, NC 27518
 PHONE: (919) 468-0112
 FAX: (919) 466-5415
 NYSE AMT

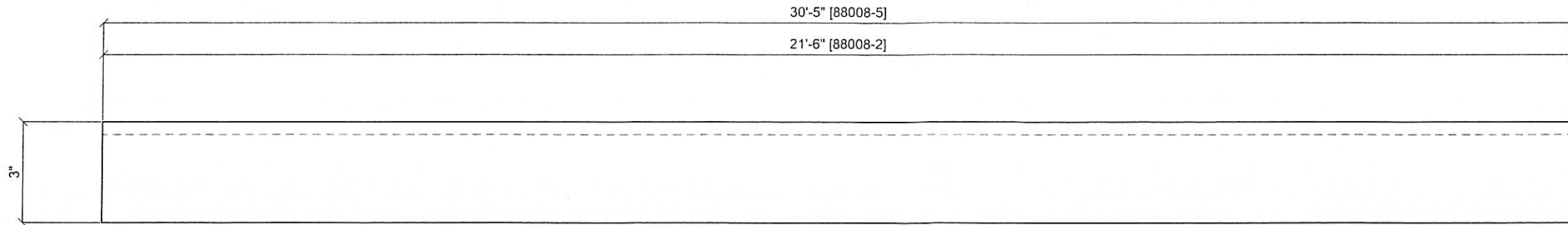
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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	DMB	07/05/12

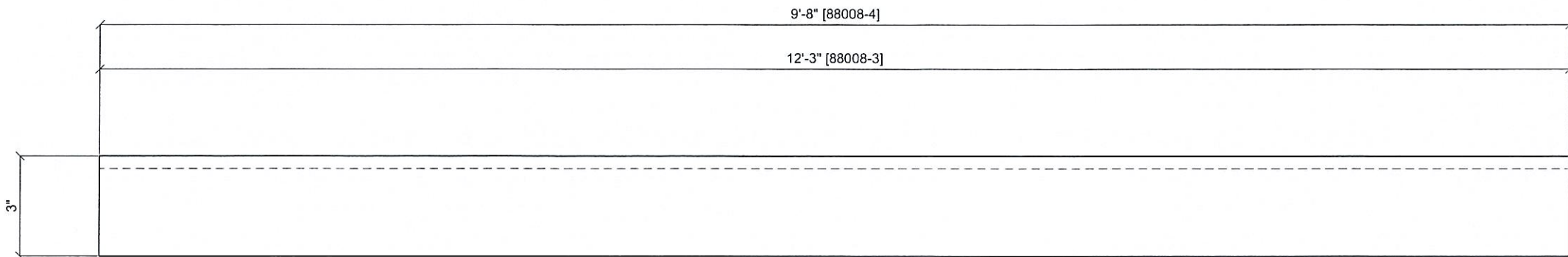
ATC SITE NUMBER:
88008

ATC SITE NAME:
**BETHANY CT
 CONNECTICUT**

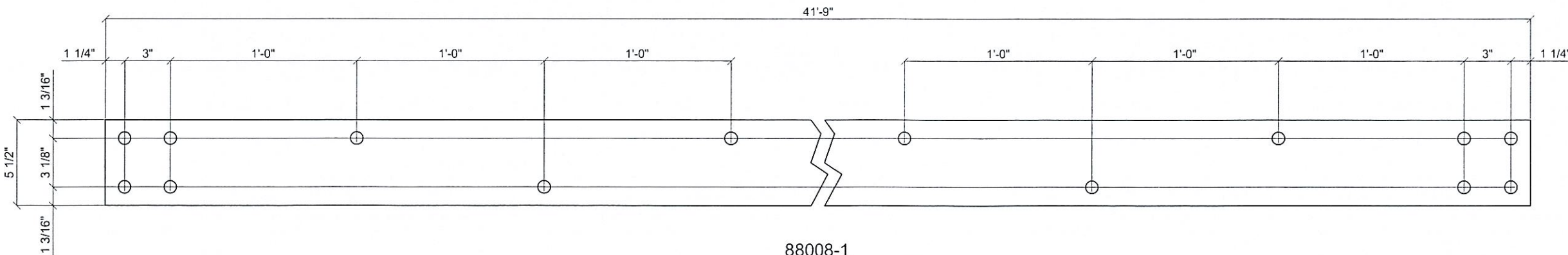
SITE ADDRESS:
 93 OLD AMITY ROAD
 BETHANY, CT 06524



DIAGONALS & SUB-HORIZONTALS



TRUSS DIAGONALS



**88008-1
 REINFORCEMENT PLATE**

****NOTE:**
 REINFORCEMENT PLATES MAY BE CUT IN HALF FOR SHIPPING, SUPPLY OR FABRICATION REQUIREMENTS.

PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
88008-5	L 3" X 3" X 3/8"	30'-5"		219.0#	230.0#
88008-4	L 3" X 3" X 1/4"	9'-8"		47.4#	49.7#
88008-3	L 3" X 3" X 1/4"	12'-3"		60.0#	63.0#
88008-2	L 3" X 3" X 3/8"	21'-6"		154.8#	162.5#
88008-1	PL 1/2" X 5 1/2"	41'-9"	**	426.2#	447.5#

MATERIAL: A36 FINISH: GALVANIZED HOLES: 13/16"Ø

DRAWN BY:	DMB
APPROVED BY:	
DATE DRAWN:	07/05/12
ATC JOB NO:	49564732

SHEET TITLE:
**ANGLE & REINFORCEMENT
 PLATE
 FABRICATION DETAILS**

SHEET NUMBER: F-1	REV. # 0
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APPROVALS				
SPRINT REPRESENTATIVES	DATE	APPROVED	APPROVED AS NOTED	DISAPPROVED/REVISE
_____	____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SPRINT RF ENGINEER	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SITE OWNER	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



SITE ID: CT03XC043
SITE NAME: BETHANY, CT (AMERICAN TOWERS, INC.)

NETWORK VISION CONSTRUCTION DRAWINGS



AERIAL VIEW
SCALE: NTS



LOCATION MAP
SCALE: NTS

SITE INFORMATION
BLOCK: TBD
LOT: 51C
MAP: 118
ZONING CLASSIFICATION: BUSINESS AND INDUSTRY
ZONING JURISDICTION: TBD

PROJECT INFORMATION:
SITE ADDRESS:
93 OLD AMITY ROAD
BETHANY, CT 06524
NEW HAVEN COUNTY

COORDINATES:
LATITUDE: 41.404728
LONGITUDE: -73] DATUM: NAD 83

STRUCTURE HEIGHT:
±350'-0" (TOP OF EXISTING LATTICE TOWER)

PROPERTY OWNER:
AMERICAN TOWERS INC

APPLICANT:
SPRINT-NEXTEL
6200 SPRINT PARKWAY
OVERLAND PARK, KS 66251

ENGINEER:
KMB DESIGN GROUP, LLC
1800 ROUTE 34, SUITE 209
WALL, NJ 07719
KEITH DRENNAN - PROJECT MANAGER
(732) 280-5623

POWER COMPANY:
CONNECTICUT LIGHT & POWER
P.O. BOX 270
HARTFORD, CT 06141-0270
(800) 286-2000

CONSTRUCTION MANAGER:
TODD AMANN
(914) 715-9363

PROPERTY OWNER:
AMERICAN TOWERS INC

CONSTRUCTION MANAGER:
TODD AMANN
(914) 715-9363

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(914) 715-9363



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
A	04-12-12	INITIAL SUBMISSION NOT FOR CONSTRUCTION	JLS	KCD
B	06-01-12	REVISED PER CLIENT COMMENTS	MCD	KCD
C	06-20-12	REVISIONS PER CLIENT COMMENTS	AJL	KCD



1800 ROUTE 34, SUITE 209
WALL, NJ 07719
(732) 280-5623

Stephen A. Bray
PROFESSIONAL ENGINEER



CT LICENSE: 26657 12/18/12

PROJECT NUMBER:
332.1619

SITE INFORMATION:
93 OLD AMITY ROAD
BETHANY, CT 06524
NEW HAVEN COUNTY

CT03XC043

PROJECT TYPE:
NETWORK VISION

DRAWN BY: JLS CHECKED BY: DATE: 04-02-12

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
A01

REV.:
C

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GENERAL CONSTRUCTION NOTES:

- This set of plans has been prepared for the purposes of municipal and agency review and approval. This set of plans shall not be utilized as construction documents until all drawings have been revised to indicate "ISSUED FOR CONSTRUCTION." Contractor shall e-mail plans@kmbdg.com to ensure that they have the latest set of construction drawings prior to commencing any work whatsoever.
- ADA compliance: The facility is a normally unoccupied mobile radio facility.
- These plans are intended to be used to direct the proposed layout. Drawings should not be scaled unless otherwise noted. Plans, elevations and details are intended to show the end result of design. Minor modifications may be required to suit job dimensions or conditions.
- The contractor shall verify all dimensions and conditions and notify the Project Manager of any discrepancies before starting any work.
- These plans are designed to reflect observed field conditions. Certain conditions are assumed to comply with general standard construction design methods and principles, and the Contractor shall note that not all areas of structural attachment have been opened or specifically verified. The Contractor is therefore requested to notify the Engineer immediately should encountered field conditions vary from those depicted on the drawings. KMB Design Group, LLC will issue field change direction if required. The Project Manager is referenced on the cover sheet.
- All equipment and materials shall be installed in accordance with the manufacturer's recommendations unless otherwise noted by the Engineer of Record.
- The Contractor shall be responsible for all work performed and materials installed to be in strict conformance, as a minimum standard, with all applicable codes, regulations and ordinances having jurisdiction. Electrical systems shall be installed in conformance with the National Electrical Code, and all other local and state jurisdictional codes, ordinances, and with local utility company specifications, whichever is more stringent.
- The Contractor shall keep contract area clean, hazard free and dispose of all dirt, stumps, stones, rubbish or debris in accordance with all local and environmental laws. No materials or equipment shall be placed anywhere on or in the structure without making adequate provisions to protect existing property. Upon completion, repair any damage that may have occurred during construction. Repair all existing wall surfaces damaged during construction such that they match and blend with adjacent surfaces.
- The Contractor shall be solely responsible and have control over construction means, methods, techniques, sequences, and procedures.

SPRINT SPECIFICATIONS:

- Contractor shall ensure that they obtain the latest copy of the following documents from ALU:
 - A. Cell Site Installation & De-Installation Services - Attachment G-1
 - B. Sprint Integrated Construction Standards for Wireless Sites
 - C. Standard Construction Specifications for Wireless Sites
- Contractor shall notify the Engineer immediately if any of the Sprint standards contradict the standards provided by KMB Design Group, LLC so that the Engineer can provide direction.
- State, Federal and Local codes prevail.

DIVISION 1 - GENERAL REQUIREMENTS SECTION 01010 SUMMARY OF WORK:

- The Contractor shall review and become familiar with specifications contained in the bid package prepared by KMB Design Group, LLC and the client. The Contractor shall e-mail plans@kmbdg.com to ensure that they have the latest set of construction drawings prior to commencing any work whatsoever.
- In the event of a conflict between the bid package specifications and these notes, the provisions of the clients specifications shall take precedence.
- The Contractor shall visit the site of the proposed work and fully acquaint themselves with the conditions as they exist in order that any restrictions pertaining to the work are understood. All areas and dimensions are indicated on the drawings as accurately as possible, but all conditions shall be verified by each contractor and/or subcontractor at the site. The failure of the contractor to examine or receive any form, instrument or document, or to visit the site shall not relieve the Contractor from any obligation with respect to their quoted price. The submission of a quotation shall acknowledge that the Contractor and their Subcontractors have fully examined the site and know the existing conditions and have made provisions for operating under the conditions as they exist at the site and have included all necessary items.
- The General Contractor's responsibilities shall include, but not be limited to, construction of the equipment foundation, including electrical service, telephone conduits, grounding system and coordination with local utility companies.
- The antenna installers responsibilities shall include, but not be limited to, cable tray installation, routing of cables from radio equipment to antennas, associated hardware for securing antenna cables, antenna mounts, determining supplier of antennas, grounding of antennas to grounding system, installing antennas and verifying with Radio Frequency Engineers, the alignment, location, and proper orientation of antennas.
- The Contractors shall coordinate construction activities with the building Landlord in order to avoid conflicts with current use of the site.
- The Owner may have work performed under separate contracts, concurrently, with the work of this contract.
- The General Contractor shall permit access to the project to these contractors to perform their work.
- The Contractor shall conform to all applicable local, county, state, and federal codes, laws and requirements, including OSHA.
- The Contractor shall apply and pay for the construction permit, certificate of occupancy and all other required permits or licenses. The Contractor is responsible for obtaining all inspections.
- Care shall be exercised in protecting the building occupants during the demolition and construction periods of this project. Every effort shall be made to maintain a clean operation. Debris shall not accumulate. All debris will be deposited in a suitable container on a daily basis and shall be emptied on a regular schedule. The location of the container shall be coordinated with the Building Manager.
- Safety procedures: Attention is directed to federal, state, and local laws, rules and regulations concerning construction safety and health standards. The construction company awarded this project shall ensure all working surroundings and conditions are sanitary, and are not hazardous or dangerous to the health or safety of the work crews or building occupants. Precaution shall be exercised at all times for the protection of persons and property. It is mandatory that the safety provisions of applicable local laws, OSHA regulations and building and construction codes, be observed for all contractors and antenna riggers.
- The General Contractor must coordinate all roof related work with the Landlord's pre-approved roofer. The General Contractor must confirm the compatibility of all materials and ensure that all existing roof warranties, if any, remain in effect.

SECTION 01613 - DELIVERY, STORAGE AND HANDLING:

- The Contractor shall be responsible for all procedures and scheduling associated with hoisting, staging, and erecting of materials and equipment to and/or upon the site.
- All elements of the existing site, i.e. structures, site plantings, etc. shall be protected as necessary from said actions. This work must be done in a safe, secure nondestructive manner for protecting personnel and property.

SECTION 01740 WARRANTIES AND BONDS:

- The Contractor shall guarantee all labor and materials used in this project for a minimum period of one (1) year commencing from the date of final acceptance by the client. The Contractor is not required to guarantee material supplied by the Owner.
- Final date of acceptance is deemed as the date that all required state and federal approval have been obtained including, but not limited to:
 - A. Final inspection - D14
 - B. Certificate of Occupancy
- Any deficiencies that come evident during this one (1) year period shall be corrected by the Contractor at the Contractor's expense.



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C	06-20-12	REVISIONS PER CLIENT COMMENTS	A.J.L.	K.C.D.
B	06-01-12	REVISED PER CLIENT COMMENTS	M.C.D.	K.C.D.
A	04-12-12	INITIAL SUBMISSION NOT FOR CONSTRUCTION	J.L.S.	K.C.D.
REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY



Stephen A. Bray
PROFESSIONAL ENGINEER



CT LICENSE: 26657 12/18/12

PROJECT NUMBER: **332.1619**

SITE INFORMATION:
93 OLD AMITY ROAD
BETHANY, CT 06524
NEW HAVEN COUNTY

CT03XC043

PROJECT TYPE:
NETWORK VISION

DRAWN BY:	CHECKED BY:	DATE:
JLS		04-02-12

SHEET TITLE:
GENERAL NOTES
1 OF 2

SHEET NUMBER:	REV.:
C01	C

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DIVISION 2 - SITE WORK

- The Contractor shall call utilities prior to the start of construction.
- All existing active sewer, water, gas, electric, and other utilities where encountered in the work, shall be protected at all times, and where required for the proper execution of the work, shall be relocated as directed by Engineers. Extreme caution should be used by the Contractor when excavating or pier drilling around or near utilities. The Contractor shall provide safety training for the working crew. This will include but not limited to:
 - Fall protection
 - Confined space
 - Electrical safety
 - Trenching & excavation
- All site work shall be as indicated on the drawing and stipulated in the specification project summary.
- If necessary, rubbish, stumps, debris, sticks, stones, and other refuse shall be removed from the site and disposed of legally.
- The site shall be graded to cause surface water flow away from the equipment shelter and monopole areas.
- No fill or embankment material shall be placed on frozen ground. Frozen materials, snow or ice shall not be placed in any fill or embankment.
- The sub grade shall be compacted and brought to a smooth uniform grade prior to finished surface application.
- All existing inactive sewer, water, gas, electric and other utilities, which interfere with the execution of the work, shall be removed and/or capped, plugged or otherwise discontinued at points which will not interfere with the execution of the work, subject to the approval of engineering.
- The areas of the Owners property disturbed by the work and not covered by the building or driveway, shall be graded to a uniform slope, fertilized, seeded, and covered with mulch as specified in the specification of landscape work.
- The Contractor shall minimize disturbance to existing site during construction. Erosion control measures, shall be in conformance with the local guidelines for erosion and sediment control.
- All back fill shall be compacted to 95% modified proctor density as determined by ASTM standard test procedures.

DIVISION 3 - CONCRETE

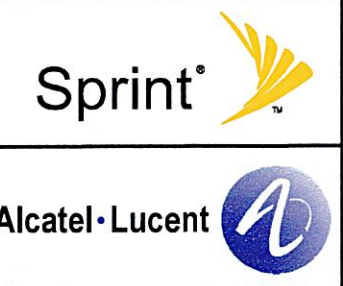
- Design and construction of all concrete elements shall conform to the latest editions of the following applicable codes: ACI 301 "Specifications for Structural Concrete for Buildings"; ACI 318 "Building Code Requirements for Reinforced Concrete".
- Mix design shall be approved by Owner's representative prior to placing concrete.
- Concrete shall be normal weight, 6% air entrained (±1.5%) with a maximum 4" slump, and have a minimum 28-day compressive strength of 3000 psi unless otherwise noted.
- Maximum aggregate size shall be 1".
- The following materials shall be used:

Portland cement:	ASTM C 150, TYPE I
Reinforcement:	ASTM A 185
Normal weight aggregate:	ASTM C 33
Water:	Drinkable
Admixtures:	Non-chloride containing
- Reinforcing details shall be in accordance with the latest edition of ACI 315.
- Reinforcing steel shall conform to ASTM A 615, grade 60, deformed unless noted otherwise. Welded wire fabric shall conform to ASTM A 185 welded steel wire fabric unless noted otherwise. Splices shall be class "B" and all hooks shall be standard, unless otherwise noted.
- The following minimum concrete cover shall be provided for reinforcing steel unless shown otherwise on drawings:
 - Concrete cast against earth 3"
 - Concrete exposed to earth or weather:
 - #6 and larger 2"
 - #5 and smaller 1 1/2"
 - Concrete not exposed to earth or weather or not cast against the ground:
 - Slab and wall 3/4"
 - Beams and columns 1 1/2"
- A 1" chamfer shall be provided at all exposed edges of concrete, unless otherwise noted, in accordance with ACI 30 section 4.2.4.
- Installation of concrete anchor, shall be per manufacturers written recommended procedure, the anchor bolt, dowel or rod shall conform to manufacturer's recommendation for embedment depth or as shown on the drawing. No rebar shall be cut without prior engineering approval when drilling holes in concrete.
- Curing compounds shall conform to ASTM C-309.
- Admixtures shall conform to the appropriate ASTM standard as referenced in ACI-301.
- Do not weld or tack weld reinforcing steel.
- All dowels, anchor bolts, embedded steel, electrical conduits, pipe sleeves, grounds and all other embedded items and formed details shall be in place before start of concrete placement.
- Locate additional construction joints required to facilitate construction as acceptable to Engineer. Place reinforcement continuously through joint.
- Reinforcement shall be cold bent whenever bending is required.
- Place concrete in a uniform manner to prevent the formation of cold joints and other planes of weakness. Vibrate the concrete to fully embed reinforcing. Do not use vibrators to transport concrete through chutes or formwork.
- Do not place concrete in water, ice, or on frozen ground.
- Do not allow concrete sub base to freeze during concrete curing and setting period, or a minimum of 14 days after placement.
- For cold -weather and hot-weather concrete placement, conform to applicable ACI codes and recommendations. In either case, materials containing chloride, calcium, salts, etc. shall not be used. Protect fresh concrete from weather for 7 days minimum.

DIVISION 5 - METALS

SECTION 05120 - STRUCTURAL STEEL

- Codes and specifications:
 - The fabrication/erection shall conform to the requirements of the following codes and specifications, latest edition, unless otherwise noted:
 - The local building code.
 - AISC-specification for structural steel buildings, allowable stress design, 1989.
 - ASTM A992 structural steel (for all w sections only).
 - ASTM A36 structural steel (all other sections).
 - ASTM A53, type E, grade B, electric resistance welded steel pipe.
 - ASTM 123 zinc (hot-dip galvanized) coatings on iron and steel products.
 - ASTM 153 zinc coated (hot-dip) iron and steel hardware.
 - AWS D1.1 structural welding code.
 - EIA/TIA-222 structural standards for steel antenna towers and antenna supporting structures.
- Design parameters:
 - The structural steel antenna mounting frames are designed to provide support for antennas and all hardware and accessories associated with antennas.
- Fabrication and installation requirements:
 - The antenna supports, antennas and mounting hardware shall be constructed plumb, level and true.
 - All structural elements and fasteners shall be galvanized in accordance with ASTM A123 and A153.
 - Welds should be shop made wherever possible, conforming to AISC specification and AWS requirements. All welds are to be of the size and type indicated. Contractor shall employ a licensed welder and shall provide the engineer with their name and a copy of their license prior to commencing any field welding.
 - Contractor shall provide fire watch during all welding operations, brazing and soldering and other work requiring the use of an open flame. Two (2) hand held 30 lb fire extinguishers and adequate water supply shall be maintained on site. Fire watch plan shall be submitted to the client for approval prior to welding.
 - All bolted connections shall be A325 high strength bolts 5/8" diameter minimum size unless otherwise noted. Bolts shall be supplied with flat washers. Bolts shall be tightened in accordance with the AISC snug tight condition, unless otherwise noted.
 - Protective galvanized coatings which were damaged or removed during erection or transportation shall be restored by painting with zinc-rich primer.
 - All threaded rods shall be 1/2" diameter A36 steel unless otherwise noted.
 - Temporary structures for staging and construction shall be capable of withstanding forces specified by the local building code current edition.
- Inspections:
 - All structural steel antenna frames, and connections shall be inspected prior to installation of antennas.
 - All antenna cable trays, supports, channels and clamps shall be inspected prior to installation of antenna cables.
 - Coordinate all inspections with the client's Construction Manager.
 - Contractor to make notifications 72 hours prior to any required inspections.



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C	06-20-12	REVISIONS PER CLIENT COMMENTS	A.J.L.	KCD	
B	06-01-12	REVISED PER CLIENT COMMENTS	MCD	KCD	
A	04-12-12	INITIAL SUBMISSION NOT FOR CONSTRUCTION	JLS	KCD	
REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY	



Stephen A. Bray
PROFESSIONAL ENGINEER



CT LICENSE: 26657 12/18/12

PROJECT NUMBER: **332.1619**

SITE INFORMATION:
93 OLD AMITY ROAD
BETHANY, CT 06524
NEW HAVEN COUNTY
CT03XC043

PROJECT TYPE:
NETWORK VISION

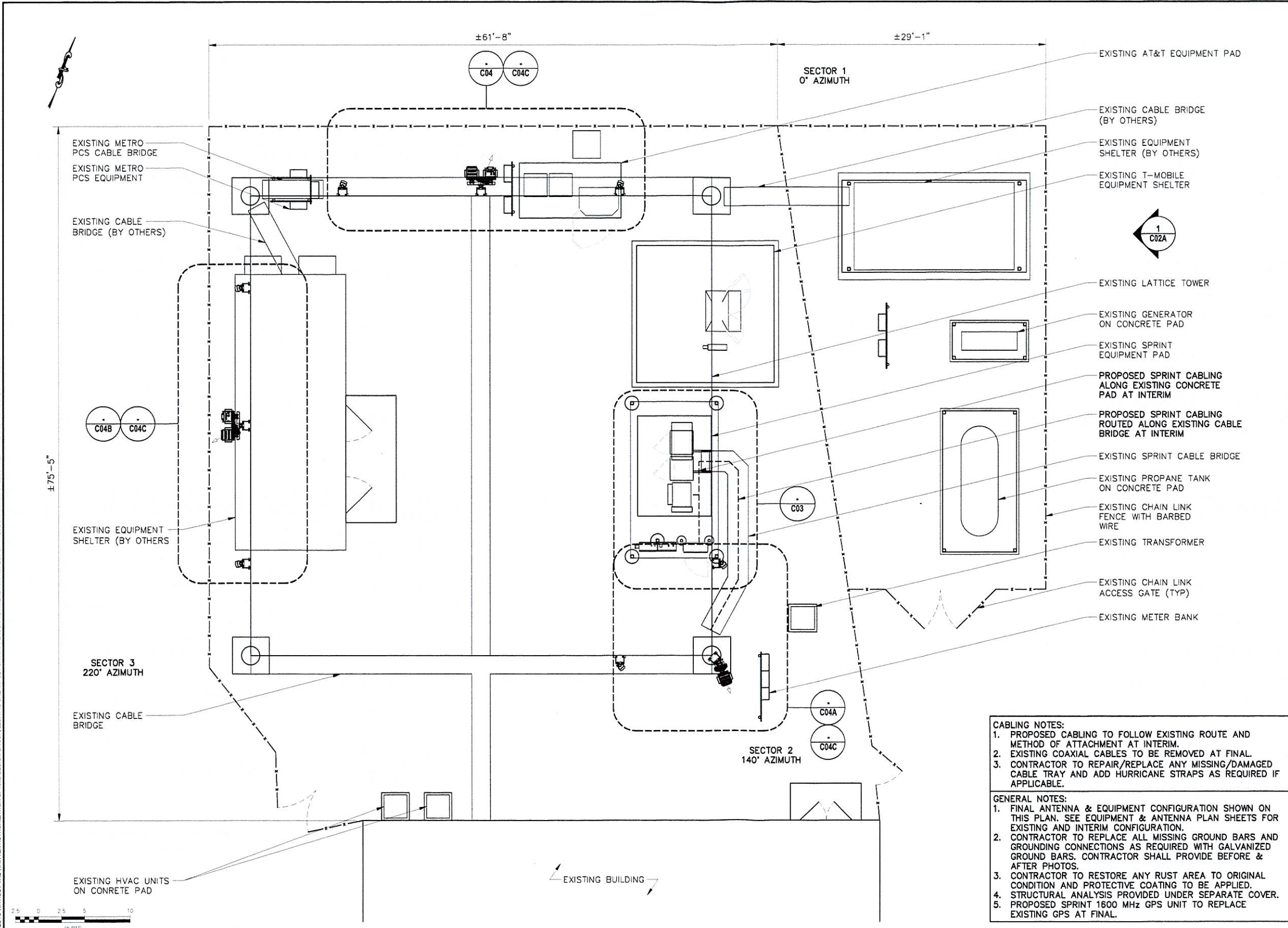
DRAWN BY: JLS	CHECKED BY:	DATE: 04-02-12
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SHEET TITLE:
GENERAL NOTES
2 OF 2

SHEET NUMBER: C01A	REV.: C
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CABLING NOTES:

1. PROPOSED CABLING TO FOLLOW EXISTING ROUTE AND METHOD OF ATTACHMENT AT INTERIM.
2. EXISTING COAXIAL CABLES TO BE REMOVED AT FINAL.
3. CONTRACTOR TO REPAIR/REPLACE ANY MISSING/DAMAGED CABLE TRAY AND ADD HURRICANE STRAPS AS REQUIRED IF APPLICABLE.

GENERAL NOTES:

1. FINAL ANTENNA & EQUIPMENT CONFIGURATION SHOWN ON THIS PLAN. SEE EQUIPMENT & ANTENNA PLAN SHEETS FOR EXISTING AND INTERIM CONFIGURATION.
2. CONTRACTOR TO REPLACE ALL MISSING GROUND BARS AND GROUNDING CONNECTIONS AS REQUIRED WITH GALVANIZED GROUND BARS. CONTRACTOR SHALL PROVIDE BEFORE & AFTER PHOTOS.
3. CONTRACTOR TO RESTORE ANY RUST AREA TO ORIGINAL CONDITION AND PROTECTIVE COATING TO BE APPLIED.
4. STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.
5. PROPOSED SPRINT 1600 MHz GPS UNIT TO REPLACE EXISTING GPS AT FINAL.



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C	06-20-12	REVISIONS PER CLIENT COMMENTS	A.J.L.	K.C.D.	
B	06-01-12	REVISED PER CLIENT COMMENTS	M.C.D.	K.C.D.	
A	04-12-12	INITIAL SUBMISSION NOT FOR CONSTRUCTION	J.L.S.	K.C.D.	
REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY	



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93 OLD AMITY ROAD
BETHANY, CT 06524
NEW HAVEN COUNTY

CT03XC043

PROJECT TYPE: **NETWORK VISION**

DRAWN BY:	CHECKED BY:	DATE:
JLS		04-02-12

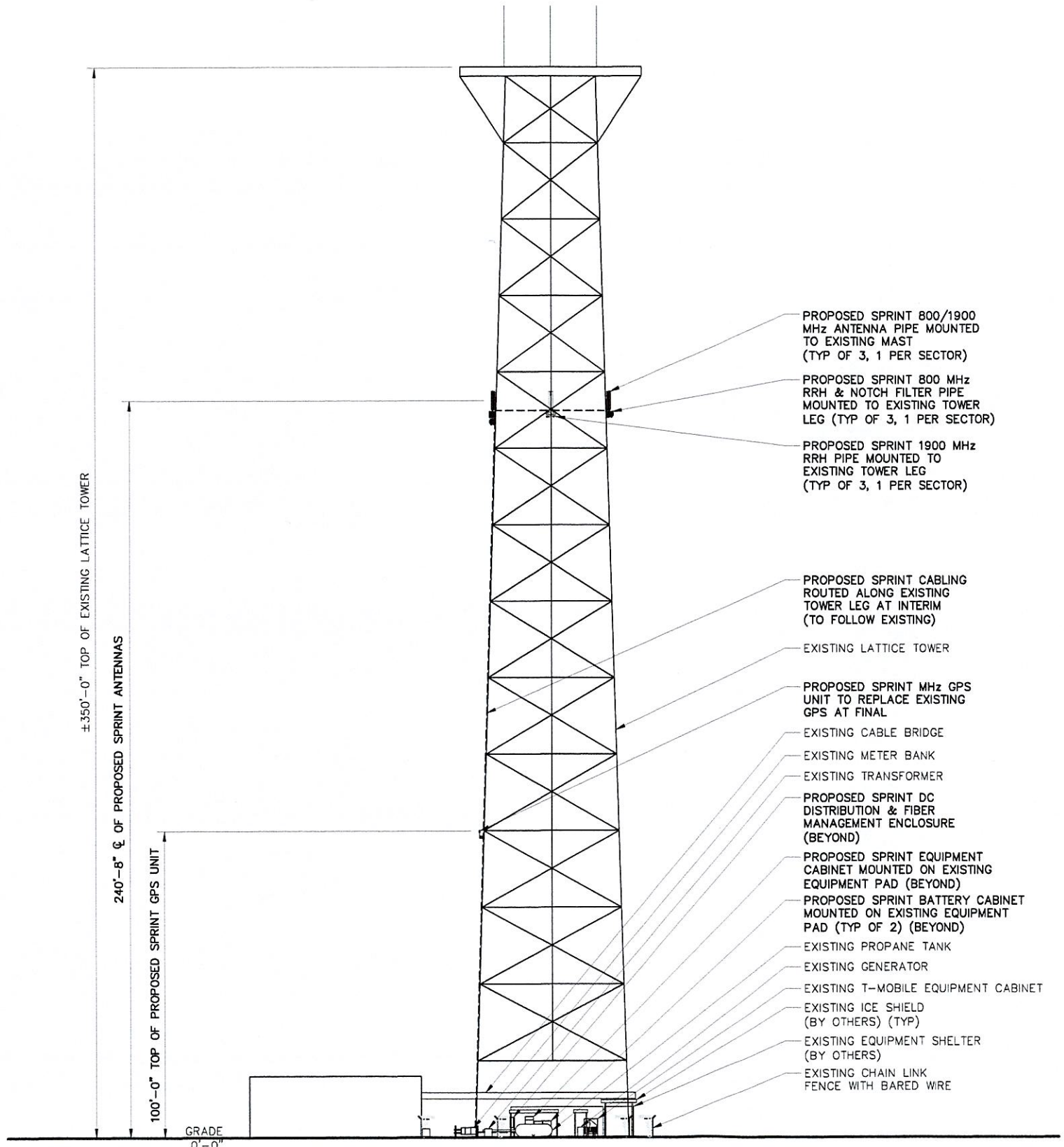
SHEET TITLE: **COMPOUND PLAN**

SHEET NUMBER:	REV.:
C02	C

1 COMPOUND PLAN
11x17 SCALE: 1" = 10'
24x36 SCALE: 1" = 5'

K:\332_Sprint\332.1619_Alcatel-Lucent\332.1619_C03XC043.ctb\332.1619_C03XC043_93 Old Amity Road\332.1619_C03XC043.dwg, 12/18/2012 2:27:04 PM, jls.dwg

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NOTES:
 1. FINAL ANTENNA & EQUIPMENT CONFIGURATION SHOWN ON THIS PLAN. SEE EQUIPMENT & ANTENNA PLAN SHEETS FOR EXISTING AND INTERIM CONFIGURATION.
 2. EXISTING ANTENNAS (BY OTHERS) NOT SHOWN FOR CLARITY.



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C	06-20-12	REVISIONS PER CLIENT COMMENTS	AJL	KCD	
B	06-01-12	REVISED PER CLIENT COMMENTS	MCD	KCD	
A	04-12-12	INITIAL SUBMISSION NOT FOR CONSTRUCTION	JLS	KCD	
REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY	



Stephen A. Bray
PROFESSIONAL ENGINEER



CT LICENSE: 26657 12/18/12
 PROJECT NUMBER: **332.1619**

SITE INFORMATION:
 93 OLD AMITY ROAD
 BETHANY, CT 06524
 NEW HAVEN COUNTY
CT03XC043

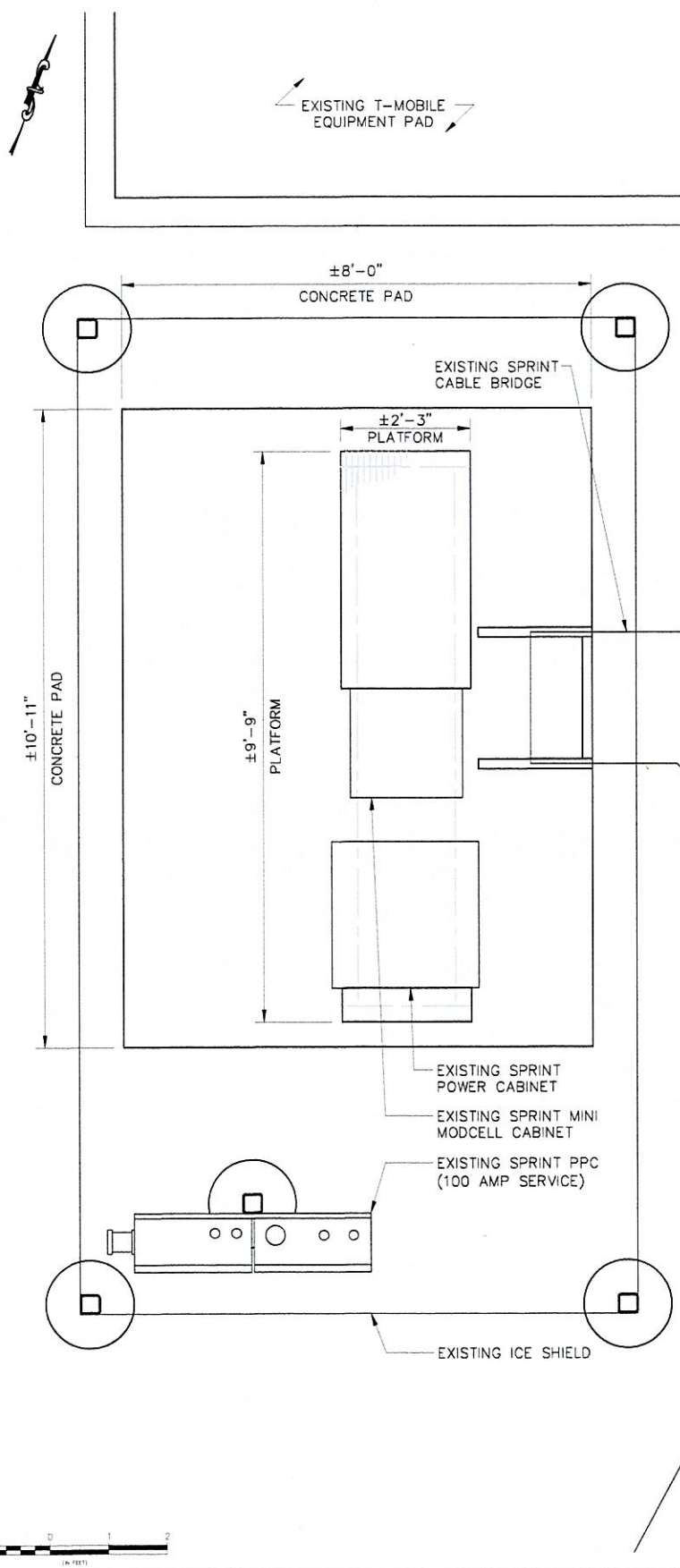
PROJECT TYPE: NETWORK VISION
 DRAWN BY: JLS CHECKED BY: DATE: 04-02-12

SHEET TITLE: ELEVATION

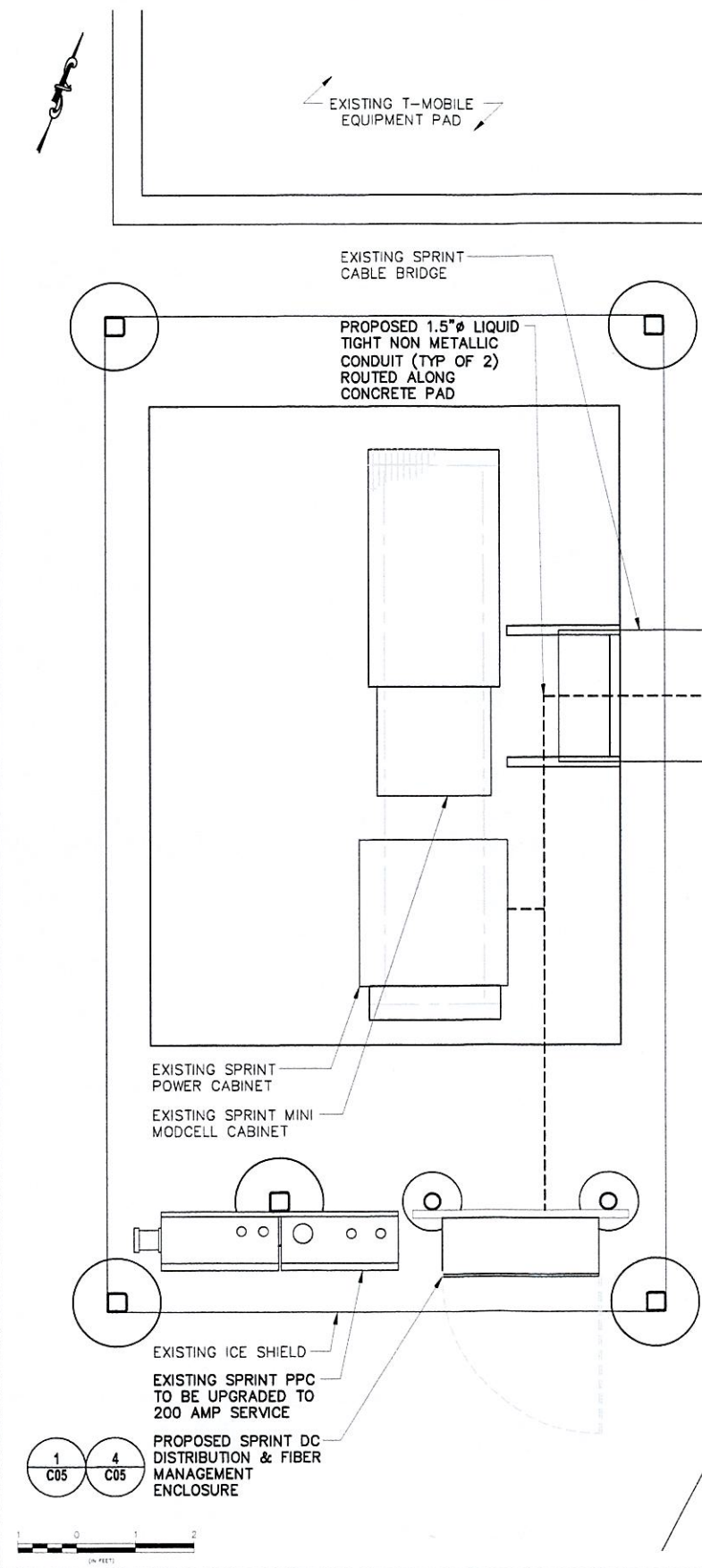
SHEET NUMBER: **C02A** REV.: **C**

11x17 SCALE: 1" = 40' 24x36 SCALE: 1" = 20'

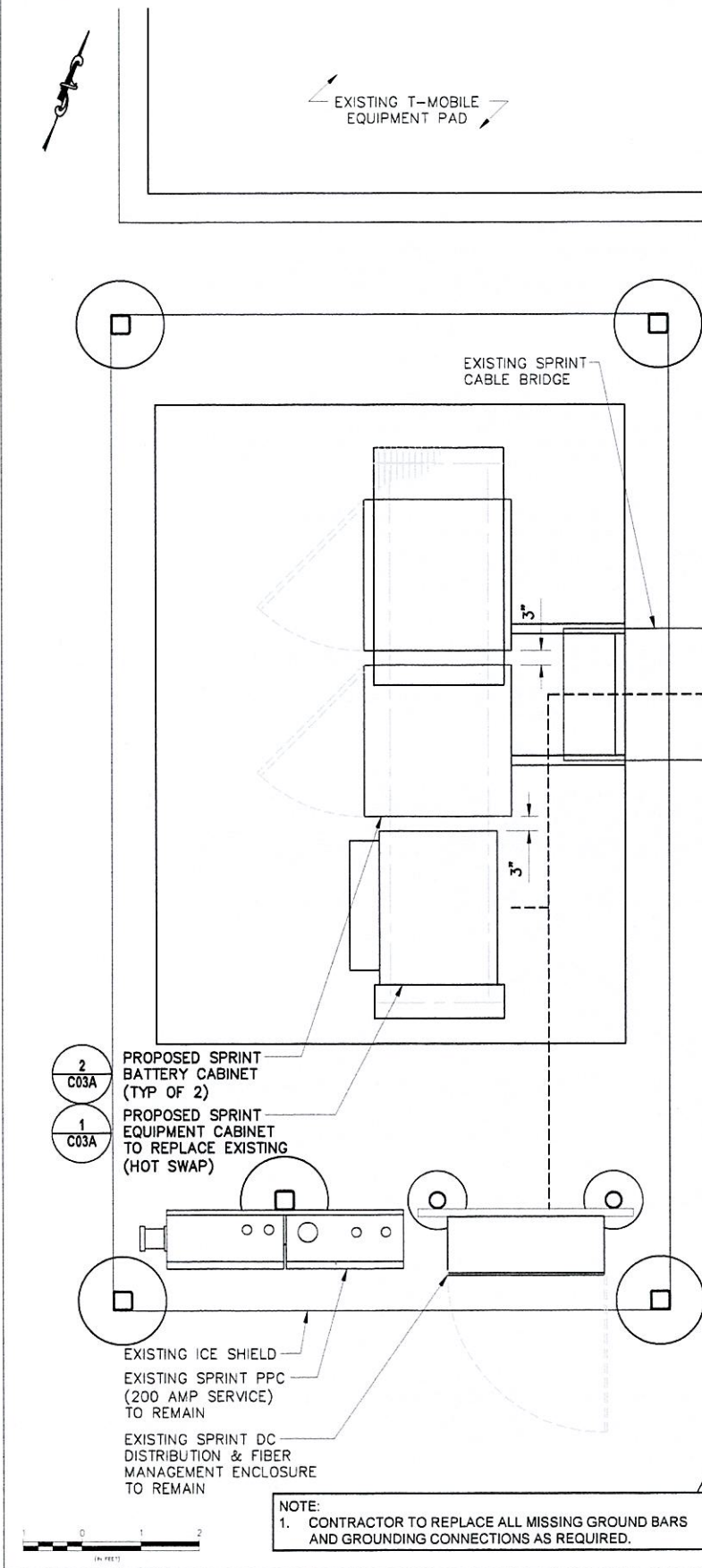
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1 EXISTING EQUIPMENT PLAN
 11x17 SCALE: 3/8" = 1'-0" 24x36 SCALE: 3/4" = 1'-0"



2 INTERIM EQUIPMENT PLAN
 11x17 SCALE: 3/8" = 1'-0" 24x36 SCALE: 3/4" = 1'-0"



3 FINAL EQUIPMENT PLAN
 11x17 SCALE: 3/8" = 1'-0" 24x36 SCALE: 3/4" = 1'-0"

NOTE:
 1. CONTRACTOR TO REPLACE ALL MISSING GROUND BARS AND GROUNDING CONNECTIONS AS REQUIRED.



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
△				
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△				
C	06-20-12	REVISIONS PER CLIENT COMMENTS	A.J.L.	K.C.D.
B	06-01-12	REVISED PER CLIENT COMMENTS	M.G.D.	K.C.D.
A	04-12-12	INITIAL SUBMISSION NOT FOR CONSTRUCTION	J.L.S.	K.C.D.



Stephen A. Bray
 PROFESSIONAL ENGINEER



CT LICENSE: 26657 12/18/12

PROJECT NUMBER: **332.1619**

SITE INFORMATION:
 93 OLD AMITY ROAD
 BETHANY, CT 06524
 NEW HAVEN COUNTY

PROJECT TYPE: **CT03XC043**

PROJECT TYPE: **NETWORK VISION**

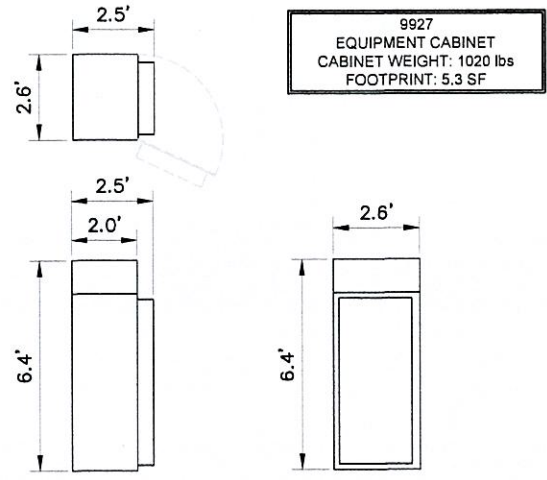
DRAWN BY: JLS CHECKED BY: DATE: 04-02-12

SHEET TITLE: **EQUIPMENT PLANS**

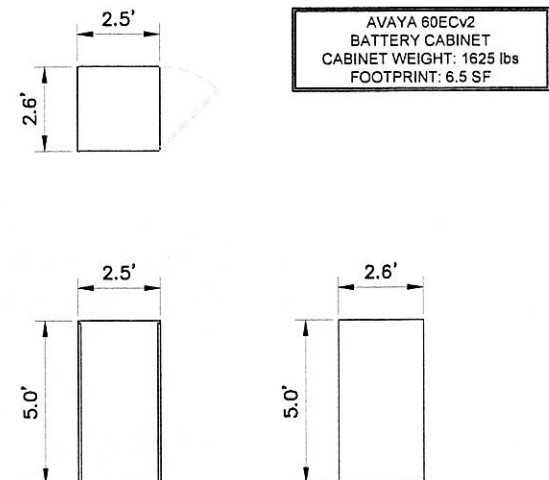
SHEET NUMBER: **C03** REV.: **C**

K:\332_Sprint\332.1619_Alcatel-Lucent\332.1619_CAD\332.1619_CAD03.dwg, 12/18/2012 2:27:12 PM, jford

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9927
EQUIPMENT CABINET
CABINET WEIGHT: 1020 lbs
FOOTPRINT: 5.3 SF



AVAYA 60ECv2
BATTERY CABINET
CABINET WEIGHT: 1625 lbs
FOOTPRINT: 6.5 SF



MANUF.: PCTEL
MODEL #: GPS-TMG-HR-26NCM
HEIGHT: 5.0"
DIAMETER: 3.2"
WEIGHT: 0.6 lbs

DETAIL NOT USED

1 EQUIPMENT CABINET SPECIFICATIONS

2 BATTERY CABINET SPECIFICATION

3 GPS UNIT SPECIFICATIONS

4

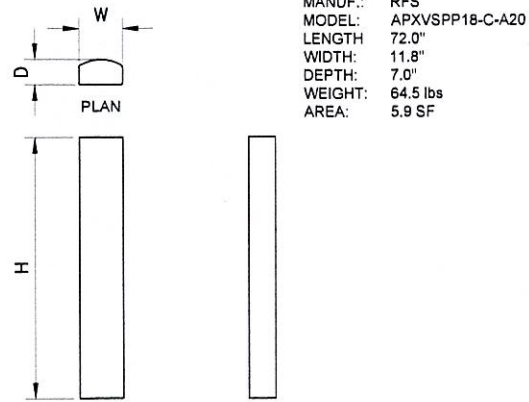
11x17 SCALE: 3/16" = 1'-0" 24x36 SCALE: 3/8" = 1'-0"

11x17 SCALE: 3/16" = 1'-0" 24x36 SCALE: 3/8" = 1'-0"

11x17 SCALE: 1/4" = 1'-0" 24x36 SCALE: 1/2" = 1'-0"

DETAIL NOT USED

DETAIL NOT USED



MANUF.: RFS
MODEL: APXVSP18-C-A20
LENGTH: 72.0"
WIDTH: 11.8"
DEPTH: 7.0"
WEIGHT: 64.5 lbs
AREA: 5.9 SF

DETAIL NOT USED

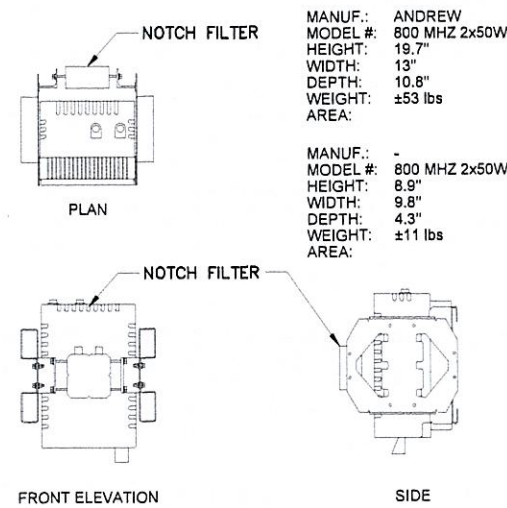
5

6

7 ANTENNA SPECIFICATIONS - 800/1900 MHz

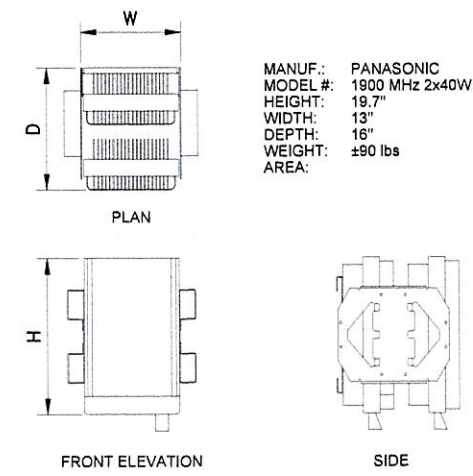
8

SCALE: NTS



MANUF.: ANDREW
MODEL #: 800 MHz 2x50W
HEIGHT: 19.7"
WIDTH: 13"
DEPTH: 10.8"
WEIGHT: ±53 lbs
AREA:

MANUF.: -
MODEL #: 800 MHz 2x50W
HEIGHT: 8.9"
WIDTH: 9.8"
DEPTH: 4.3"
WEIGHT: ±11 lbs
AREA:



MANUF.: PANASONIC
MODEL #: 1900 MHz 2x40W
HEIGHT: 19.7"
WIDTH: 13"
DEPTH: 16"
WEIGHT: ±80 lbs
AREA:

DETAIL NOT USED

9 RRH SPECIFICATIONS - 800 MHz

10 RRH SPECIFICATIONS - 1900 MHz

11

11x17 SCALE: 1/2" = 1'-0" 24x36 SCALE: 1" = 1'-0"

11x17 SCALE: 1/2" = 1'-0" 24x36 SCALE: 1" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
C	06-20-12	REVISIONS PER CLIENT COMMENTS	A.L.	K.C.D.
B	06-01-12	REVISED PER CLIENT COMMENTS	M.G.D.	K.C.D.
A	04-12-12	INITIAL SUBMISSION NOT FOR CONSTRUCTION	J.L.S.	K.C.D.



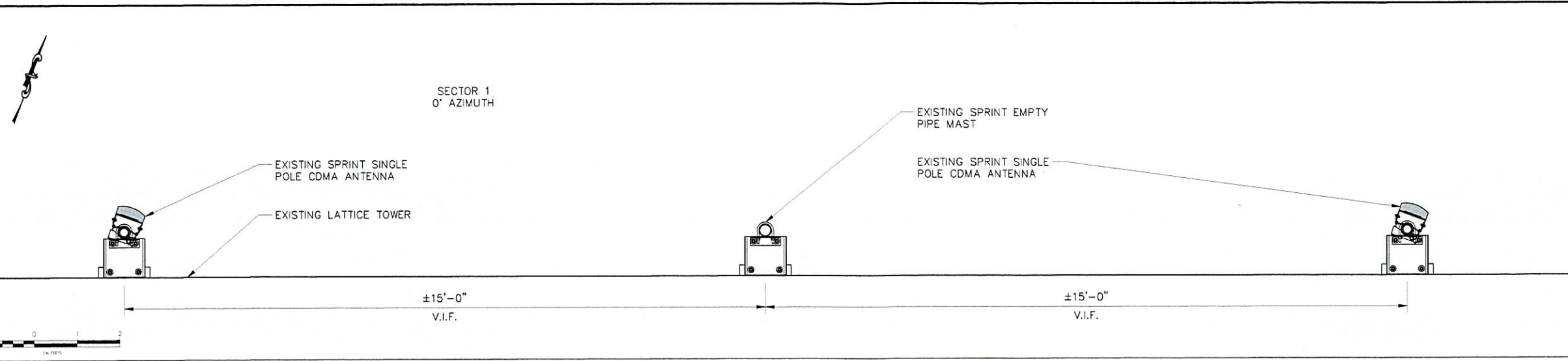
Stephen A. Bray
PROFESSIONAL ENGINEER



CT LICENSE: 26657		12/18/12	
PROJECT NUMBER: 332.1619			
SITE INFORMATION: 93 OLD AMITY ROAD BETHANY, CT 06524 NEW HAVEN COUNTY			
CT03XC043			
PROJECT TYPE: NETWORK VISION			
DRAWN BY: JLS	CHECKED BY:	DATE: 04-02-12	
SHEET TITLE: EQUIPMENT & ANTENNA SPECIFICATIONS			
SHEET NUMBER: C03A		REV.: C	

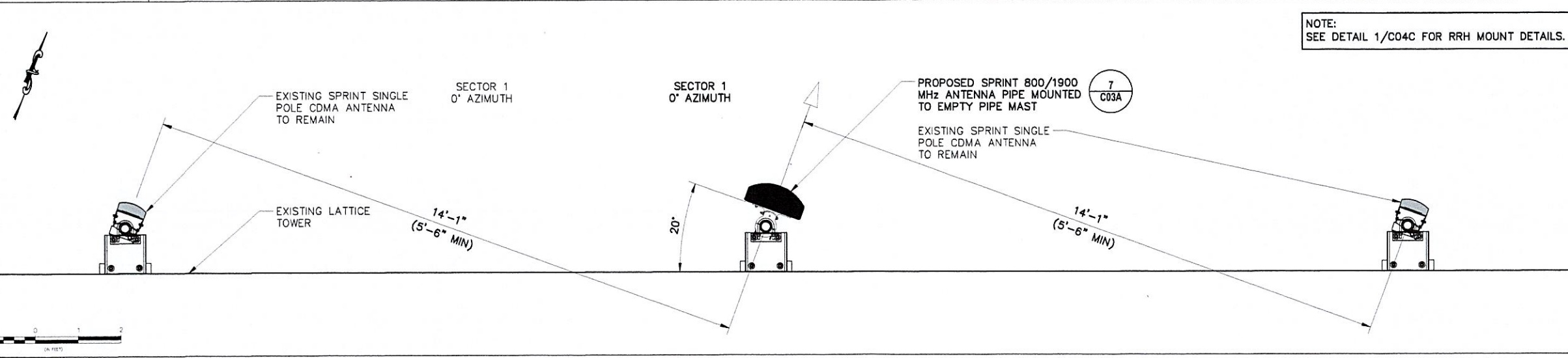
K:\332_Sprint\332.1619 Alcatel-Lucent\332.1619 Construction\332.1619 C03A.dwg, 12/18/2012 2:27:16 PM, Jls

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1 EXISTING ANTENNA PLAN @ ±240'-8" AGL (SECTOR 1)

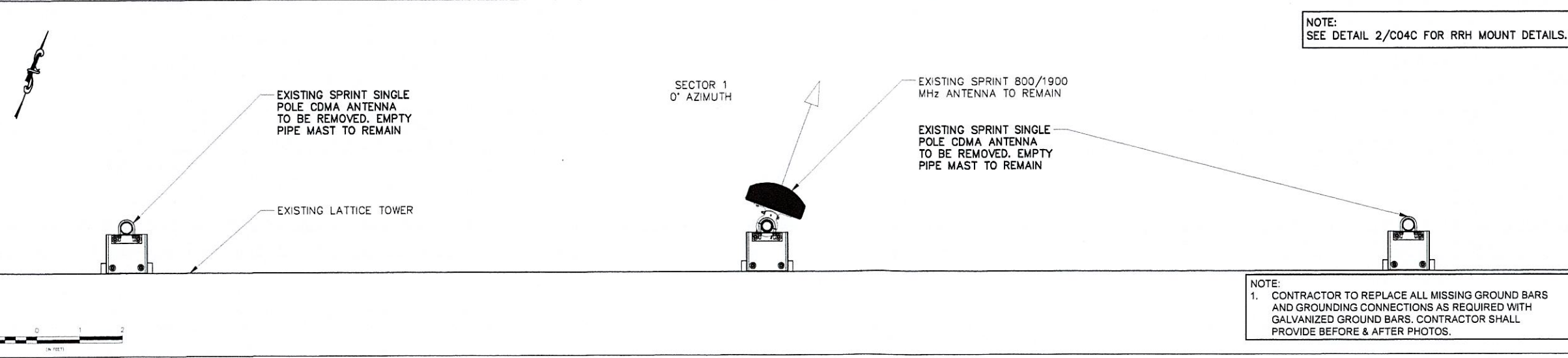
11x17 SCALE: 3/8" = 1'-0" 24x36 SCALE: 3/4" = 1'-0"



NOTE:
SEE DETAIL 1/C04C FOR RRH MOUNT DETAILS.

2 INTERIM ANTENNA PLAN @ ±240'-8" AGL (SECTOR 1)

11x17 SCALE: 3/8" = 1'-0" 24x36 SCALE: 3/4" = 1'-0"

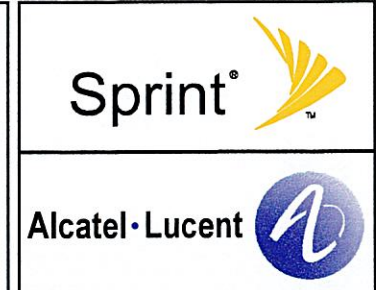


NOTE:
SEE DETAIL 2/C04C FOR RRH MOUNT DETAILS.

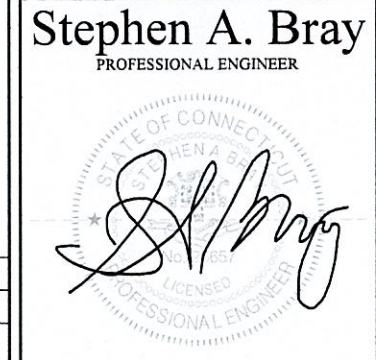
3 FINAL ANTENNA PLAN @ ±240'-8" AGL (SECTOR 1)

11x17 SCALE: 3/8" = 1'-0" 24x36 SCALE: 3/4" = 1'-0"

NOTE:
1. CONTRACTOR TO REPLACE ALL MISSING GROUND BARS AND GROUNDING CONNECTIONS AS REQUIRED WITH GALVANIZED GROUND BARS. CONTRACTOR SHALL PROVIDE BEFORE & AFTER PHOTOS.



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
Δ				
Δ				
Δ				
Δ				
Δ				
C	06-20-12	REVISIONS PER CLIENT COMMENTS	A.J.L	KCD
B	06-01-12	REVISED PER CLIENT COMMENTS	MCD	KCD
A	04-12-12	INITIAL SUBMISSION NOT FOR CONSTRUCTION	JLS	KCD



CT LICENSE: 26657 12/18/12

PROJECT NUMBER: **332.1619**

SITE INFORMATION:
 93 OLD AMITY ROAD
 BETHANY, CT 06524
 NEW HAVEN COUNTY

CT03XC043

PROJECT TYPE:
NETWORK VISION

DRAWN BY: JLS CHECKED BY: DATE: 04-02-12

SHEET TITLE:
ANTENNA PLANS (SECTOR 1)

SHEET NUMBER: **C04** REV: **C**

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C	05-23-12	REVISIONS PER CLIENT COMMENTS	A.J.L	K.C.D	
B	06-01-12	REVISED PER CLIENT COMMENTS	M.C.D	K.C.D	
A	04-12-12	INITIAL SUBMISSION NOT FOR CONSTRUCTION	J.L.S	K.C.D	
REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY	



Stephen A. Bray
PROFESSIONAL ENGINEER



CT LICENSE: 26657 12/18/12

PROJECT NUMBER: **332.1619**

SITE INFORMATION:
93 OLD AMITY ROAD
BETHANY, CT 06524
NEW HAVEN COUNTY

CT03XC043

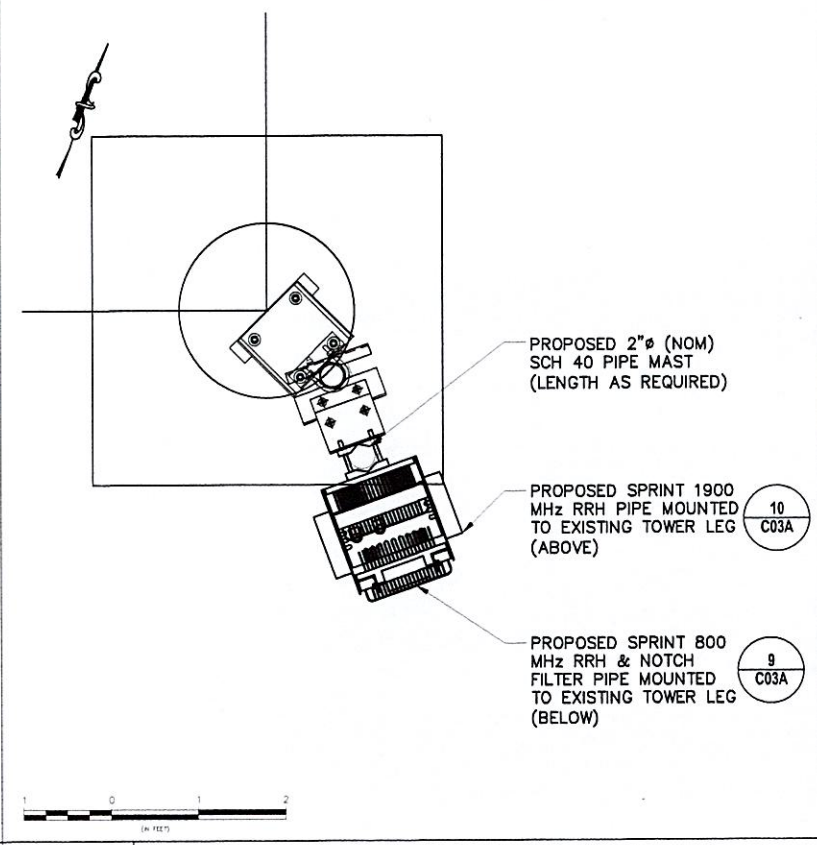
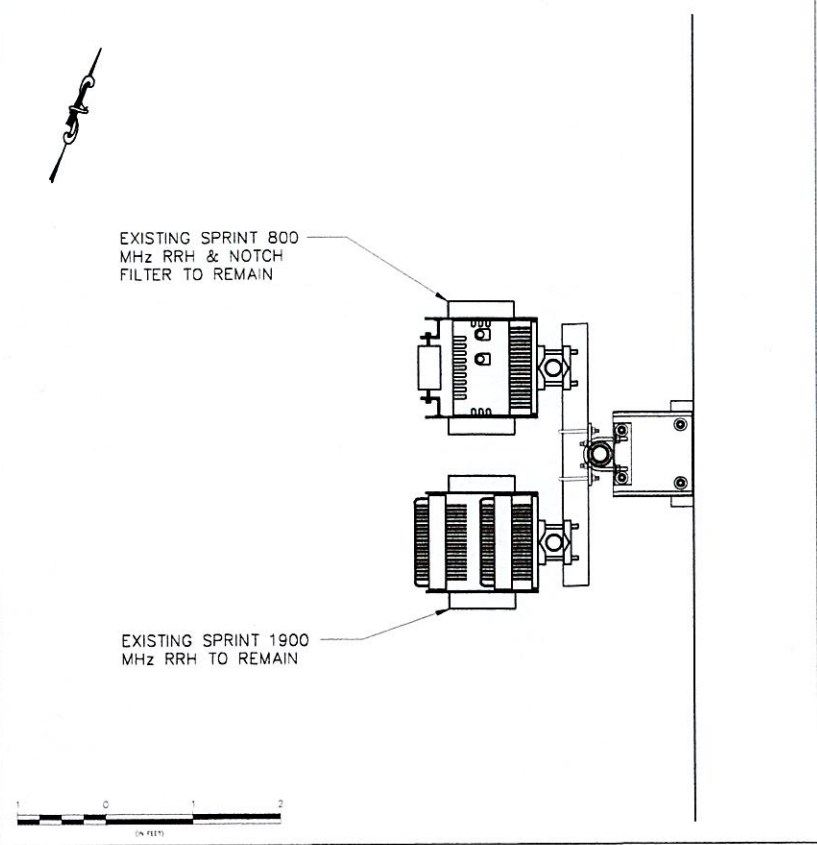
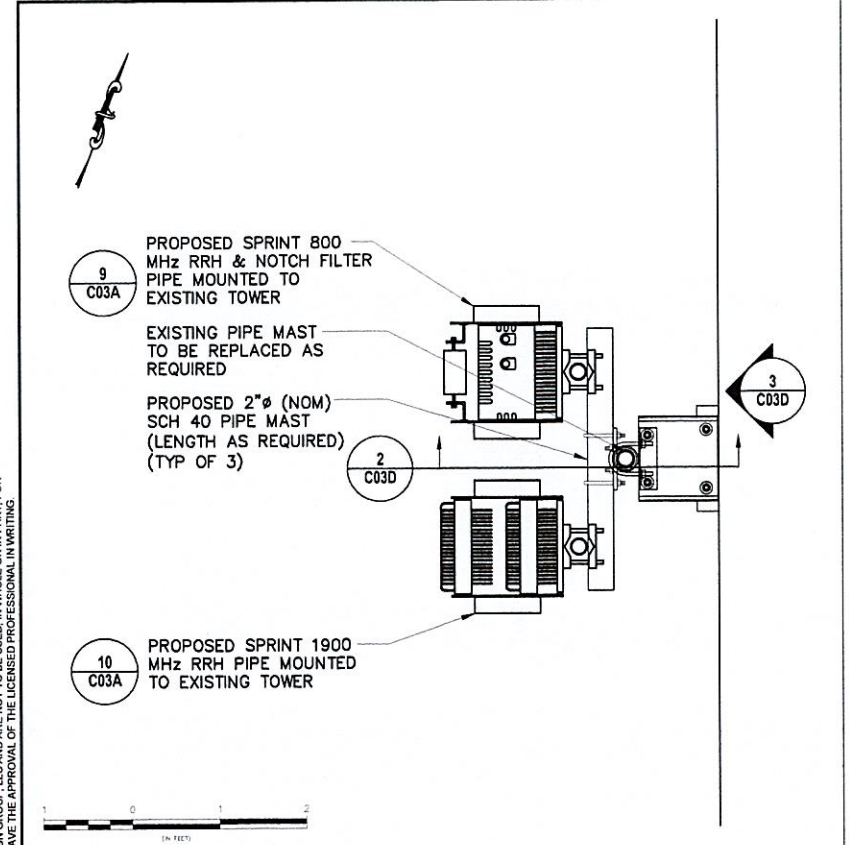
PROJECT TYPE:
NETWORK VISION

DRAWN BY: JLS CHECKED BY: DATE: 04-02-12

SHEET TITLE:
RRH PLANS (ALL SECTORS)

SHEET NUMBER: REV:

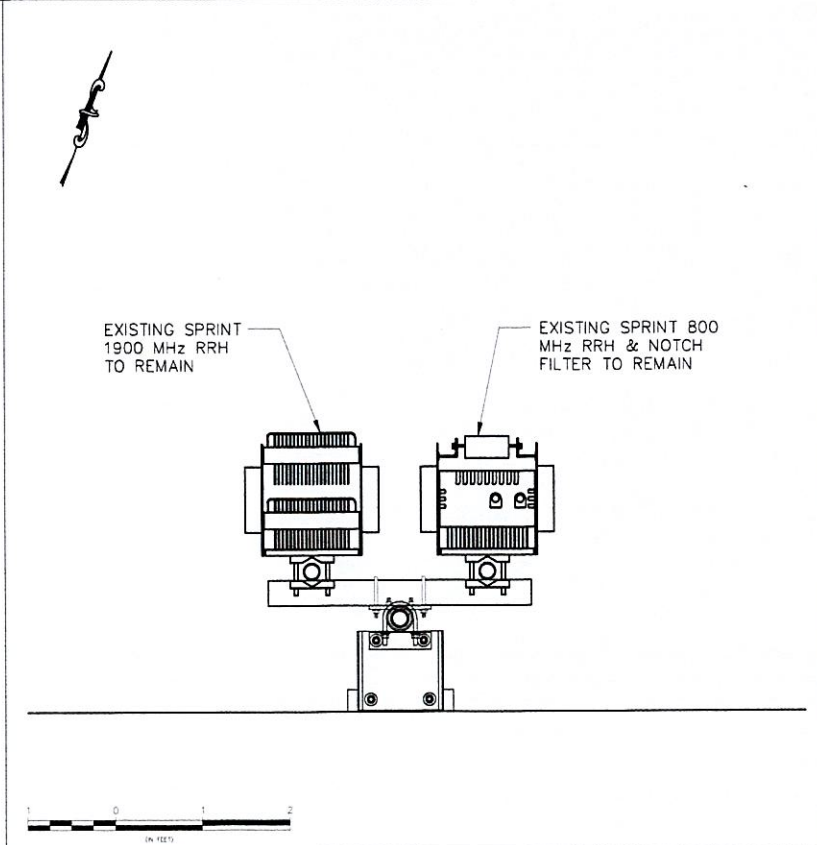
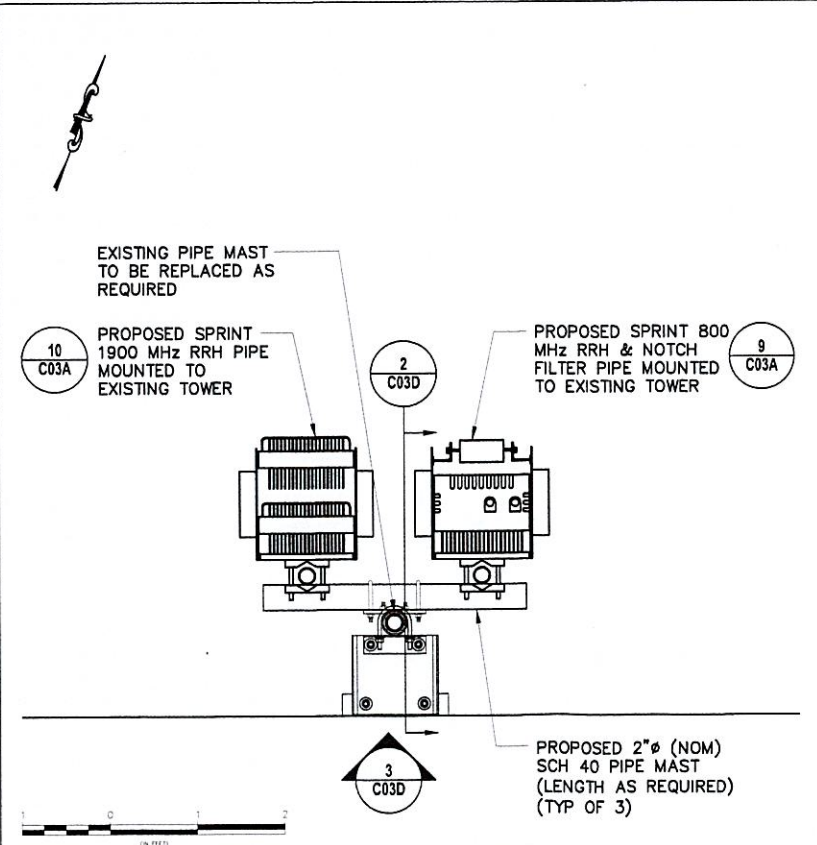
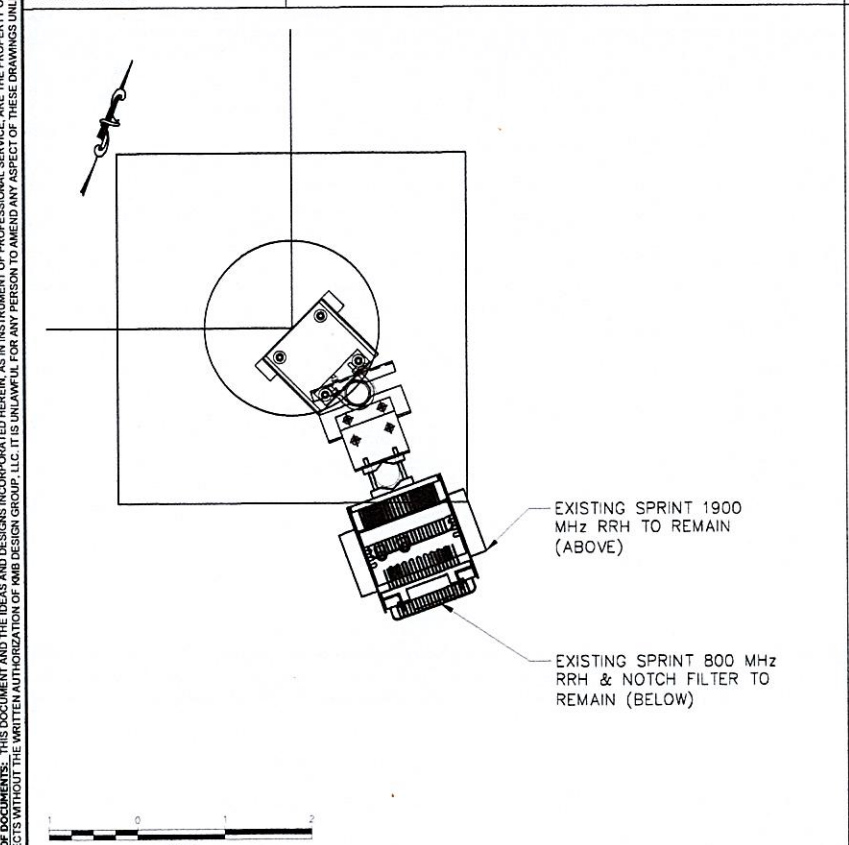
C04C C



1 **INTERIM RRH PLAN @ ±236'-2" AGl (SECTOR 1)**
11x17 SCALE: 1/2" = 1'-0" 24x36 SCALE: 1" = 1'-0"

2 **FINAL RRH PLAN @ ±236'-2" AGl (SECTOR 1)**
11x17 SCALE: 1/2" = 1'-0" 24x36 SCALE: 1" = 1'-0"

3 **INTERIM RRH PLAN @ ±234'-11" AGl (SECTOR 2)**
11x17 SCALE: 1/2" = 1'-0" 24x36 SCALE: 1" = 1'-0"



4 **FINAL RRH PLAN @ ±234'-11" AGl (SECTOR 2)**
11x17 SCALE: 1/2" = 1'-0" 24x36 SCALE: 1" = 1'-0"

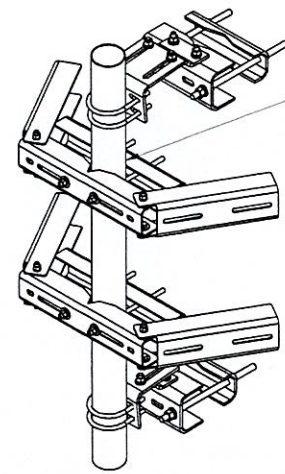
5 **INTERIM RRH PLAN @ ±236'-2" AGl (SECTOR 3)**
11x17 SCALE: 1/2" = 1'-0" 24x36 SCALE: 1" = 1'-0"

6 **FINAL RRH PLAN @ ±236'-2" AGl (SECTOR 3)**
11x17 SCALE: 1/2" = 1'-0" 24x36 SCALE: 1" = 1'-0"

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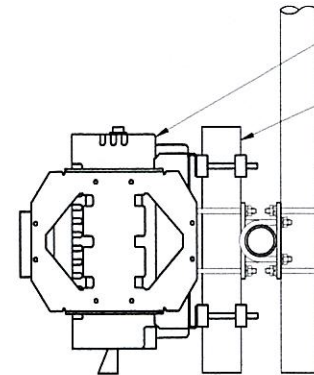
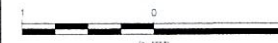


PROPOSED 2"Ø (NOM)
SCH 40 PIPE MAST
(LENGTH AS REQUIRED)

NOTE:
RRHs NOT SHOWN FOR CLARITY.

UNIVERSAL SLIDING PIPE MOUNT KIT BY
COMMSCOPE, PART # PM-SU35-48 OR AN
APPROVED EQUAL
KIT INCLUDES:
UNIVERSAL SADDLE MOUNT, SLIDING PIPE
MOUNT BRACKETS PIPE & HARDWARE

UNIVERSAL RRU MOUNT KIT BY COMMSCOPE,
PART # RM-RU3 OR AN APPROVED EQUAL
KIT INCLUDES:
BRACKETS & HARDWARE



800 MHz REMOTE RADIO HEAD &
NOTCH FILTER PIPE MOUNTED PER
MANUFACTURER'S SPECIFICATIONS

2"Ø (NOM) SCH 40 PIPE MAST
(LENGTH AS REQUIRED) (TYP)

EXISTING PIPE MAST TO BE
REPLACED AS REQUIRED

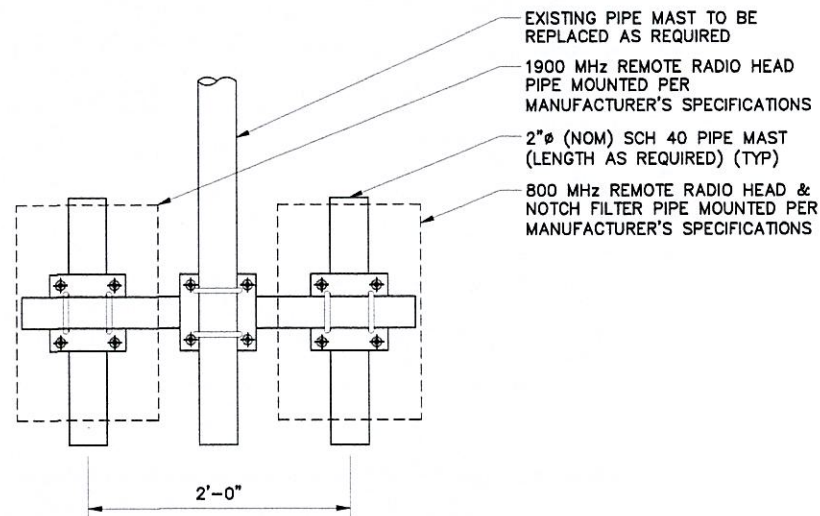
1 RRH MOUNT DETAIL (SECTOR 2)

2 RRH MOUNT DETAIL (SECTORS 1 & 3)

SCALE: NTS

11x17 SCALE: 3/4" = 1'-0"

24x36 SCALE: 1 1/2" = 1'-0"



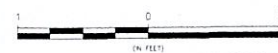
EXISTING PIPE MAST TO BE
REPLACED AS REQUIRED

1900 MHz REMOTE RADIO HEAD
PIPE MOUNTED PER
MANUFACTURER'S SPECIFICATIONS

2"Ø (NOM) SCH 40 PIPE MAST
(LENGTH AS REQUIRED) (TYP)

800 MHz REMOTE RADIO HEAD &
NOTCH FILTER PIPE MOUNTED PER
MANUFACTURER'S SPECIFICATIONS

2'-0"



2 RRH MOUNT REAR ELEVATION (SECTORS 1 & 3)

11x17 SCALE: 3/4" = 1'-0"

24x36 SCALE: 1 1/2" = 1'-0"



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C	06-20-12	REVISIONS PER CLIENT COMMENTS	A.J.L.	K.C.D.	
B	06-01-12	REVISED PER CLIENT COMMENTS	M.C.D.	K.C.D.	
A	04-12-12	INITIAL SUBMISSION NOT FOR CONSTRUCTION	J.L.S.	K.C.D.	
REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY	



Stephen A. Bray
PROFESSIONAL ENGINEER



CT LICENSE: 26657 12/18/12

PROJECT NUMBER:
332.1619

SITE INFORMATION:
93 OLD AMITY ROAD
BETHANY, CT 06524
NEW HAVEN COUNTY

CT03XC043

PROJECT TYPE:
NETWORK VISION

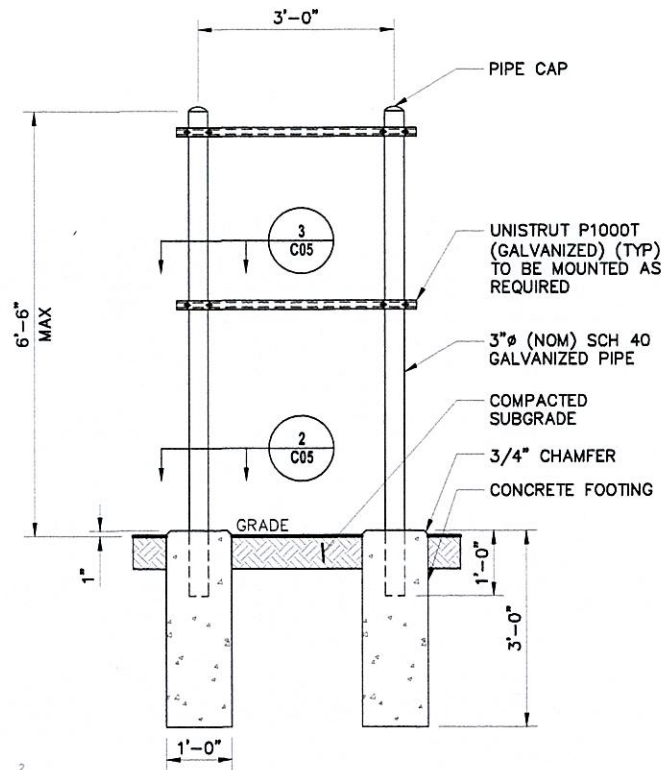
DRAWN BY:	CHECKED BY:	DATE:
JLS		04-02-12

SHEET TITLE:
RRH MOUNT DETAILS
(ALL SECTORS)

SHEET NUMBER:	REV.:
C04D	C

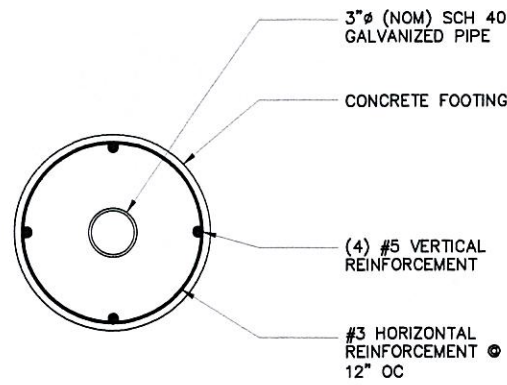
K:\332_Sprint\332.1619_Alcatel-Lucent\332.1619_CAD\332.1619_CAD\332.1619_Construction\332.1619_C04D.dwg, 12/18/2012 2:27:40 PM, jford

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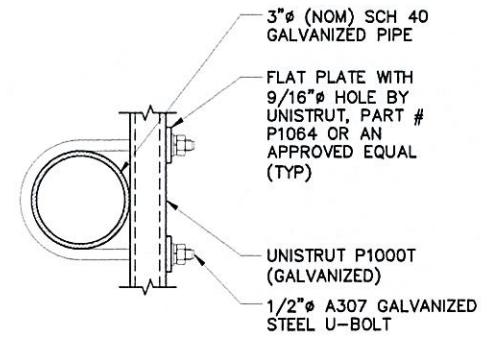
1 UNISTRUT FRAME DETAIL

11x17 SCALE: 3/8" = 1'-0" 24x36 SCALE: 3/4" = 1'-0"



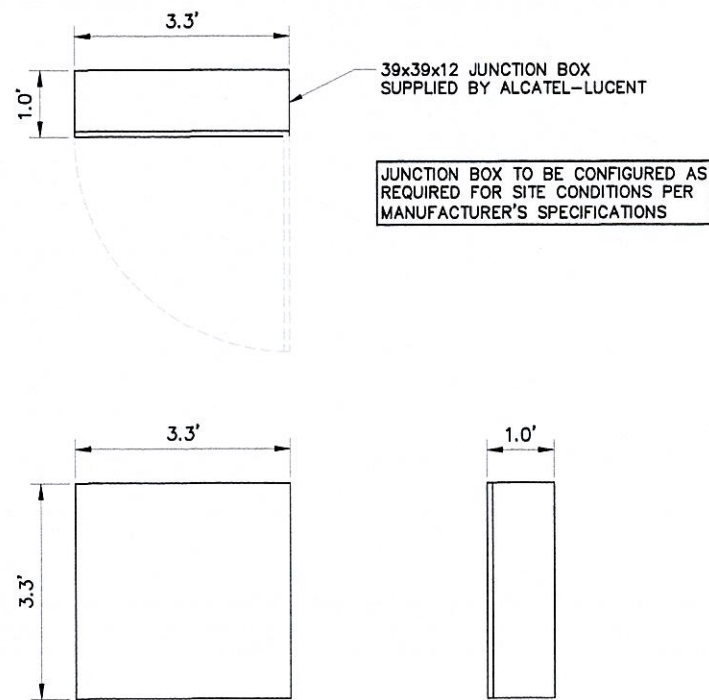
2 CONCRETE PIER DETAIL

11x17 SCALE: 1 1/2" = 1'-0" 24x36 SCALE: 3" = 1'-0"



3 UNISTRUT CONNECTION DETAIL

11x17 SCALE: 1 1/2" = 1'-0" 24x36 SCALE: 3" = 1'-0"



4 DC DISTRIBUTION & FIBER MGMT ENCLOSURE DETAIL

11x17 SCALE: 3/8" = 1'-0" 24x36 SCALE: 3/4" = 1'-0"



REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
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△				
△				
C	06-20-12	REVISIONS PER CLIENT COMMENTS	A.J.L.	K.C.D.
B	08-01-12	REVISED PER CLIENT COMMENTS	M.C.D.	K.C.D.
A	04-12-12	INITIAL SUBMISSION NOT FOR CONSTRUCTION	J.L.S.	K.C.D.



Stephen A. Bray
PROFESSIONAL ENGINEER



CT LICENSE: 26657 12/18/12

PROJECT NUMBER: **332.1619**

SITE INFORMATION:
93 OLD AMITY ROAD
BETHANY, CT 06524
NEW HAVEN COUNTY

CT03XC043

PROJECT TYPE:
NETWORK VISION

DRAWN BY: JLS CHECKED BY: DATE: 04-02-12

SHEET TITLE:
SITE DETAILS

SHEET NUMBER: **C05** REV.: **C**

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