



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

[www.ct.gov/csc](http://www.ct.gov/csc)

### VIA ELECTRONIC MAIL

March 7, 2019

Ryan Burgdorfer  
Real Estate Specialist  
Smartlink, LLC  
85 Rangeway Road, Building No. 3, Suite 102  
North Billerica, MA 01862

RE: **EM-AT&T-089-181127** – AT&T notice of intent to modify an existing telecommunications facility located at 723 Farmington Avenue, New Britain, Connecticut.

Dear Mr. Burgdorfer:

The Connecticut Siting Council (Council) is in receipt of your correspondence of February 15, 2019 submitted in response to the Council's January 14, 2019 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

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

Thank you for your attention and cooperation.

Sincerely,

A handwritten signature in blue ink, appearing to read "Melanie A. Bachman".

Melanie A. Bachman  
Executive Director

MAB/IN/emr



## Robidoux, Evan

---

**From:** Ryan Burgdorfer <[ryan.burgdorfer@smartlinkllc.com](mailto:ryan.burgdorfer@smartlinkllc.com)>  
**Sent:** Friday, February 15, 2019 1:44 PM  
**To:** CSC-DL Siting Council  
**Subject:** EM-AT&T-089-181127 - Requested AT&T supplemental documents attached  
**Attachments:** 10065751\_DE125\_190206\_CTL01028.pdf; 10065751\_AE201\_190215\_CTL01028\_REV3.pdf

Hello,

As requested most recently in your letter dated January 14, 2019 to Mr. Rodney Joujoute, please find attached the updated Mount Analysis and Construction Drawings for the proposed AT&T modification to the existing telecommunications facility located at **723 Farmington Avenue, New Britain, CT.**, showing the existing platform mount being replaced with T-arms.

I have taken this project over from Rodney, who is no longer with Smartlink. Could you please direct all future correspondence to me at this email address, and the physical address below?

Thank you!



**Ryan Burgdorfer | Real Estate Specialist**

**Smartlink**

85 Rangeway Road  
Building 3 Suite 102  
North Billerica, MA 01862  
(m) 508.665.8005  
[ryan.burgdorfer@smartlinkllc.com](mailto:ryan.burgdorfer@smartlinkllc.com)

[smartlinkllc.com](http://smartlinkllc.com)

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1033 WATERVLIE T SHAKER RD, ALBANY, NY 12205

## Mount Analysis Report

February 6, 2019

Site Name	New Britain Farmington Ave.
Site Number	CTL01028
FA Number	10065751
PTN Number	2051A0GJ8B/2051A0GH4P/2051A0GH67/2051A0GH9Y
Pace Number	MRCTB031093/MRCTB032077/MRCTB031563/MRCTB032052
Client	Smartlink
Carrier	AT&T
Infinigy Job Number	499-006
Site Location	723 Farmington Avenue New Britain, CT 06053 41° 41' 53.97" N NAD83 72° 47' 10.30" W NAD83
Mount Centerline EL.	98.0 ft
Mount Classification	T-Arm
Mount Usage	<b>53.0%</b>
Overall Result	<b>Pass</b>

Upon reviewing the results of this analysis, it is our opinion that the proposed mount meets the specified TIA code requirements. The proposed mounts and connections for the proposed carrier are therefore deemed adequate to support the final loading configuration as listed in this report.



Kevin Berger Jr.

AZ CA CO FL GA MD NC NH NJ NY TX WA

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**Introduction**

Infinigy Engineering has been requested to perform a mount analysis on the proposed AT&T mounts. All supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. The mount was analyzed using RISA-3D Version 17.0.2 analysis software.

**Supporting Documentation**

<b>RFDS</b>	AT&T RFDS ID #2282467, dated June 13, 2018
<b>Construction Drawings</b>	Infinigy Engineering Job #499-006, dated August 23, 2018
<b>Previous Analysis</b>	Infinigy Engineering Job #499-006, dated July 17, 2018

**Analysis Code Requirements**

Wind Speed	97 mph (3-Second Gust, $V_{ASD}$ ) / 125 mph (3-Second Gust, $V_{ULT}$ )
Wind Speed w/ ice	50 mph (3-Second Gust, $V_{ASD}$ ) w/ 1.7" ice
TIA Revision	ANSI/TIA-222-H
Adopted IBC	2015 IBC / 2018 Connecticut State Building Code
Structure Class	II
Exposure Category	B
Topographic Category	1
Calculated Crest Height	0

**Conclusion**

Upon reviewing the results of this analysis, it is our opinion that the proposed mount meets the specified TIA code requirements. The proposed mounts and connections for the proposed carrier are therefore deemed adequate to support the final loading configuration as listed in this report.

If you have any questions, require additional information, or actual conditions differ from those as detailed in this report please contact me via the information below:

Kevin Berger Jr. | **INFINIGY**  
 1033 Watervliet Shaker Road, Albany, NY 12205  
 (518) 690-0790  
[Structural@infinigy.com](mailto:Structural@infinigy.com) | [www.infinigy.com](http://www.infinigy.com)

**Final Configuration Loading**

Mount CL (ft)	Rad. HT (ft)	Vert. O/S (ft)	Horiz. O/S (ft) <sup>(1)</sup>	Qty	Appurtenance <sup>(2),(3)</sup>	Carrier
98.0	98.0	0.0	0.5	3	CCI OPA-65R-LCUU-H6	AT&T
			8.3	3	Quintel QS66512-2	
			12.0	3	Powerwave 7770	
			0.5	3	Ericsson RRUS-11	
			0.5	3	Ericsson RRUS-32	
			8.3	3	Ericsson RRUS-8843 B25/B66A	
			12.0	6	Powerwave LGP 21401	
			8.3	6	Kaelus DBCT108F1V92-1	
			--	2	Raycap DC6-48-60-18-8F	

(1) Horizontal Offset is defined as the distance from the left most edge of the platform when viewed facing the tower.

(2) Radios are mounted behind antennas at respective locations see appended documents for vertical locations

(3) Raycaps are attached to the monopole collar.

**Structure Usages**

Standoff	37.2%	Pass
Mount Pipe	53.0%	Pass
Horizontal	41.2%	Pass
<b>Results</b>	<b>53.0%</b>	<b>Pass</b>

**Mount Connection Reactions**

Reaction Data	Design Reactions	Analysis Reactions	Results
Max Tension (lb)	12340.0	1083.3	8.8%
Max Shear (lb)	7770.0	1406.4	18.1%
Unity Check	--	--	26.9%

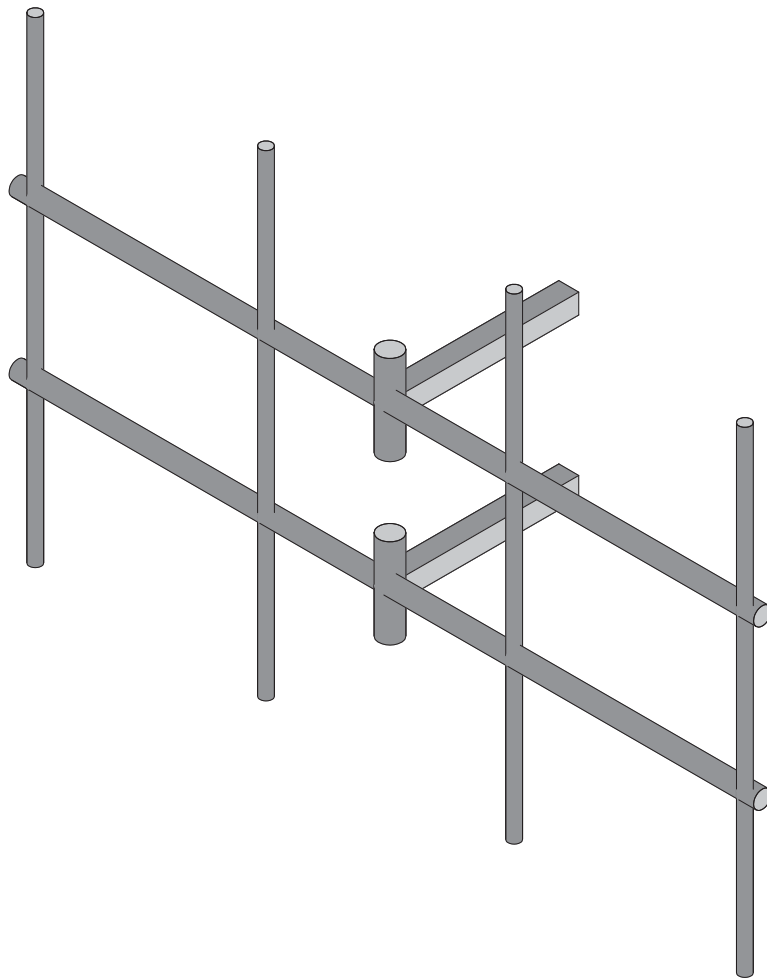
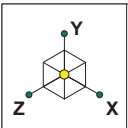
\*Assumed (2) ½" A307 Anchors. Contractor to field verify anchor diameters prior to proper installation.

### **Assumptions and Limitations**

Our structural calculations are completed assuming all information provided to Infinigy Engineering is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition of “like new” and all members and connections to be free of corrosion and/or structural defects. The structure owner and/or contractor shall verify the structure’s condition prior to installation of any proposed equipment. If actual conditions differ from those described in this report Infinigy Engineering should be notified immediately to complete a revised evaluation.

Our evaluation is completed using standard TIA, AISC, ACI, and ASCE methods and procedures. Our structural results are proprietary and should not be used by others as their own. Infinigy Engineering is not responsible for decisions made by others that are or are not based on our supplied assumptions and conclusions.

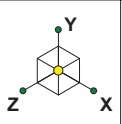
This report is an evaluation of the proposed carriers mount structure only and does not reflect adequacy of the existing tower, other mounts, or coax mounting attachments. These elements are assumed to be adequate for the purposes of this analysis and are assumed to have been installed per their manufacturer requirements.



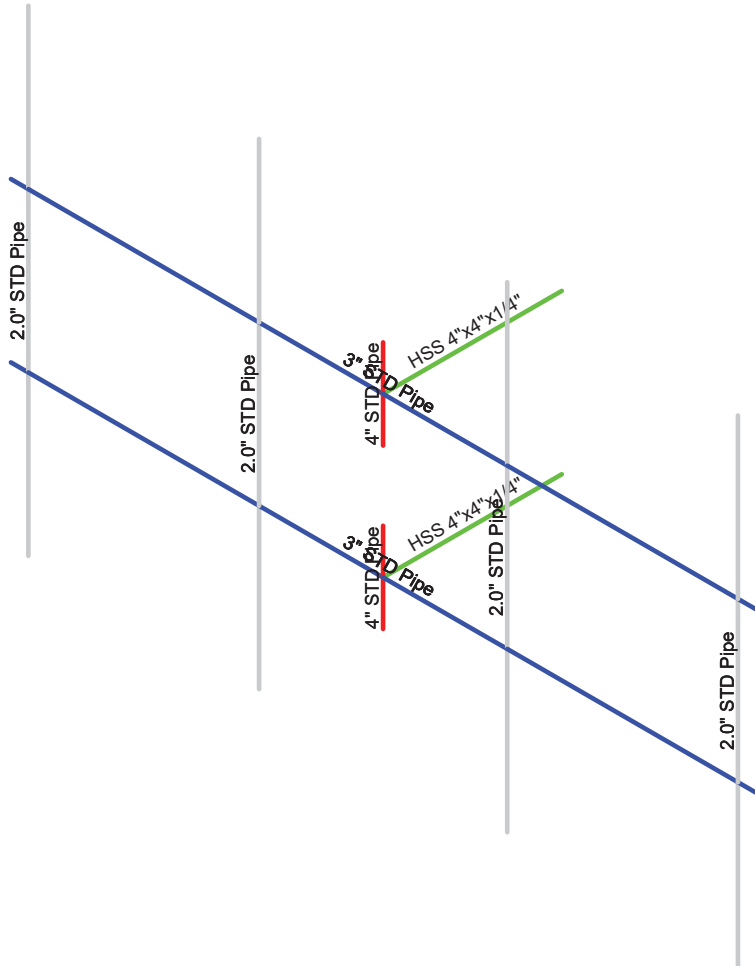
Envelope Only Solution

Infinigy Engineering, PLLC.	CTL01028	Final Configuration
KLB		Feb 6, 2019 at 2:07 PM
499-006		CTL01028.r3d





Section Sets	
<span style="color: blue;">■</span>	3" STD Pipe
<span style="color: green;">■</span>	HSS 4"x4"x1/4"
<span style="color: red;">■</span>	4" STD Pipe
<span style="color: gray;">■</span>	2.0" STD Pipe

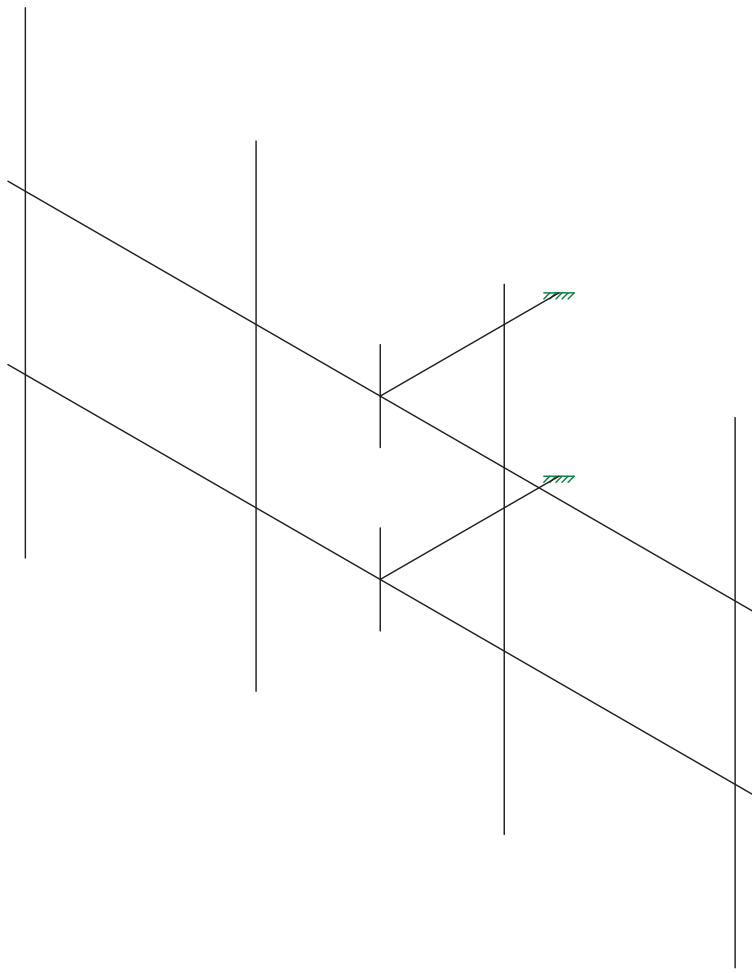
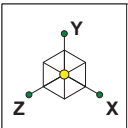


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499-006

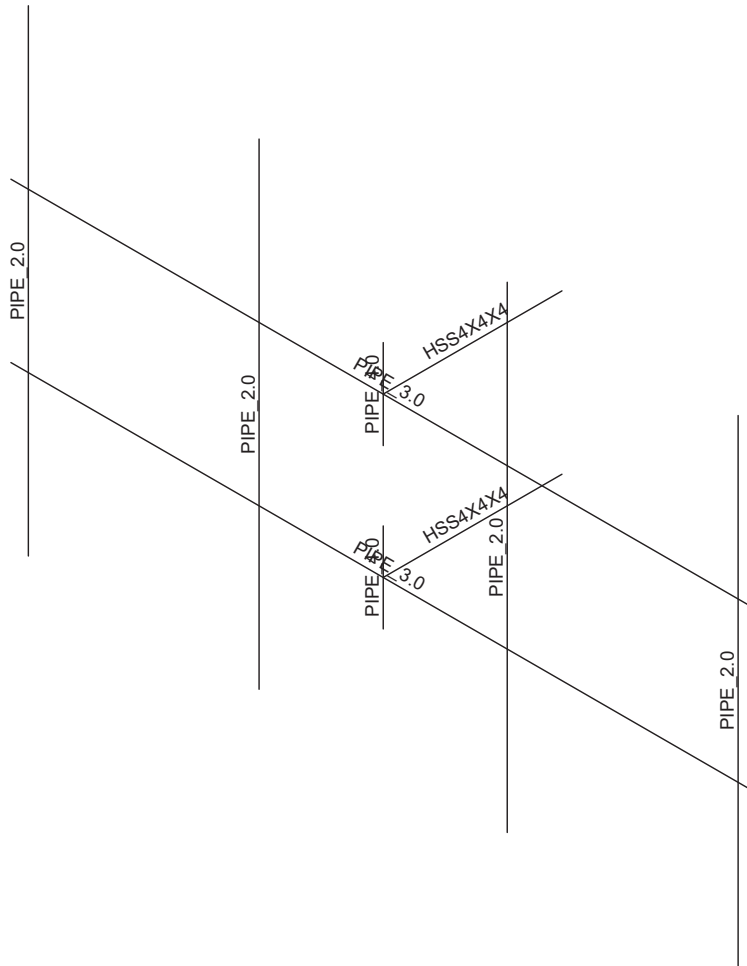
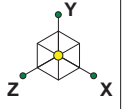
CTL01028

Section Sets
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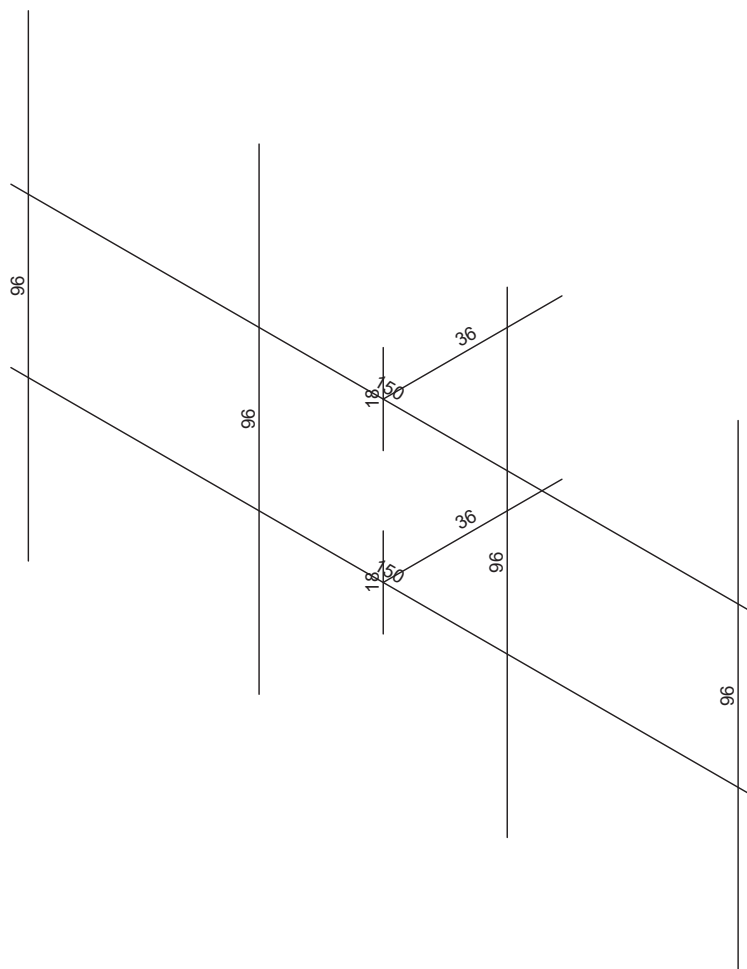
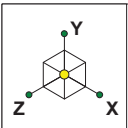
499-006

CTL01028

Member Shape

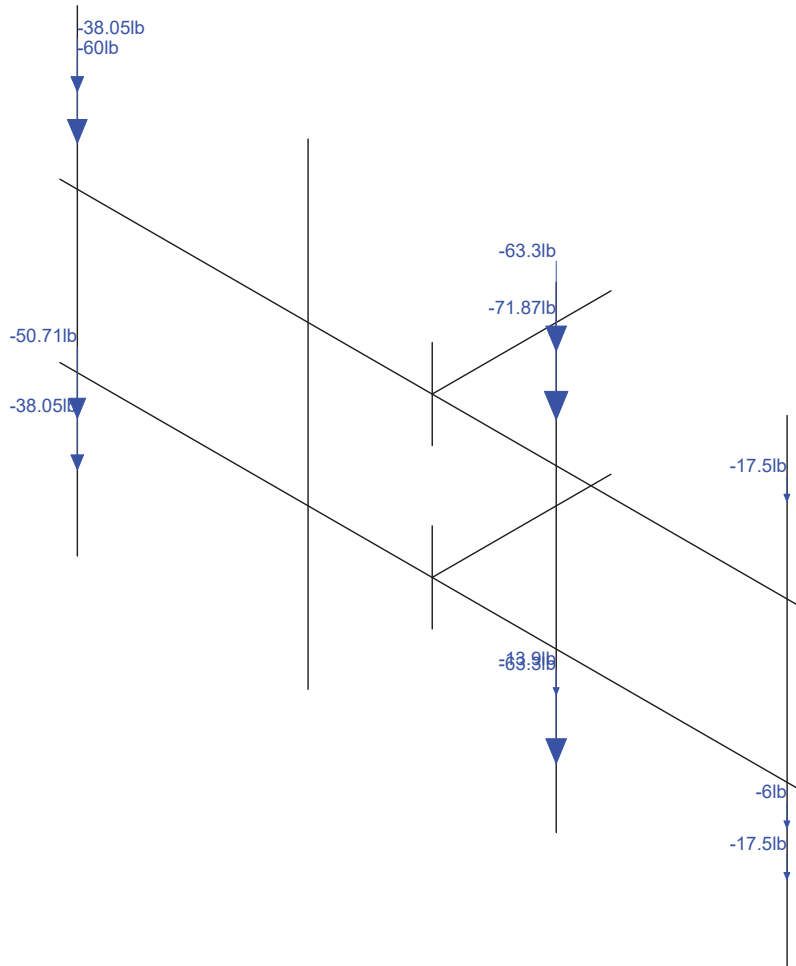
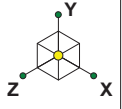
Feb 6, 2019 at 2:07 PM

CTL01028.r3d



Member Length (in) Displayed  
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Infinigy Engineering, PLLC.	CTL01028	Member Length
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499-006		CTL01028.r3d

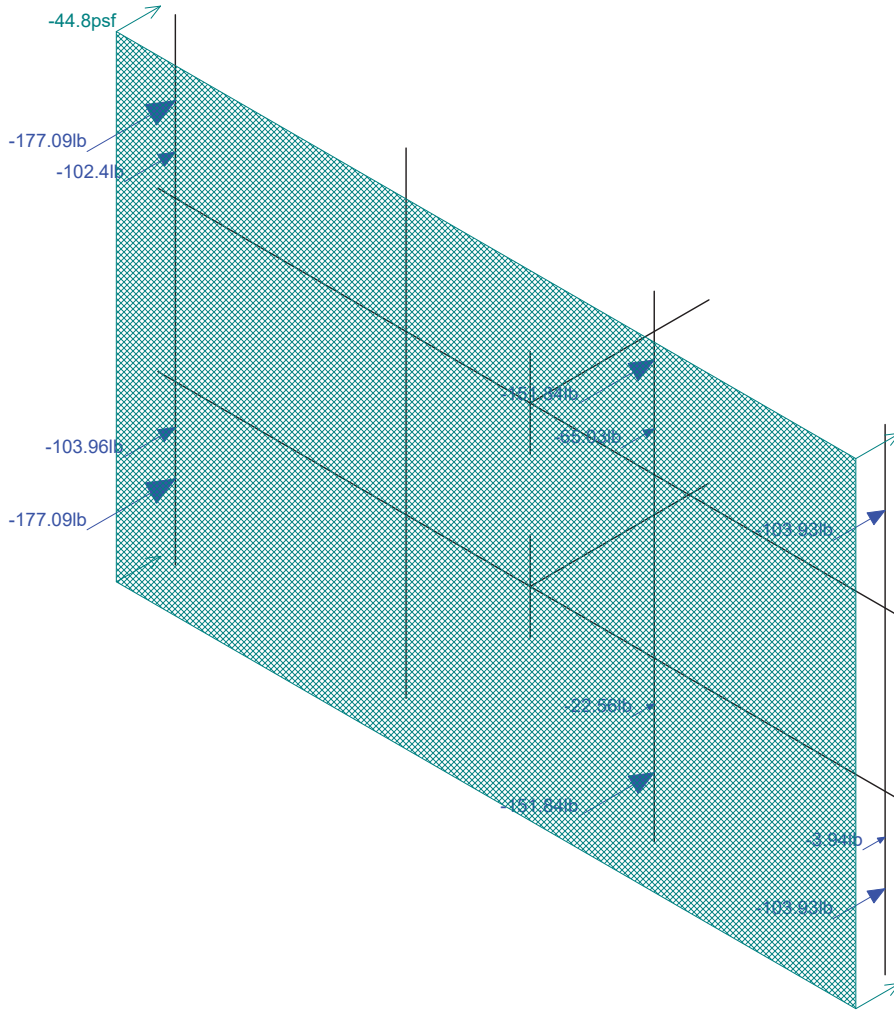
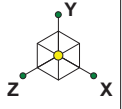


Loads: BLC 1, Self Weight  
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499-006

CTL01028

Self-Weight
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CTL01028.r3d



Loads: BLC 2, Wind Load AZI 000

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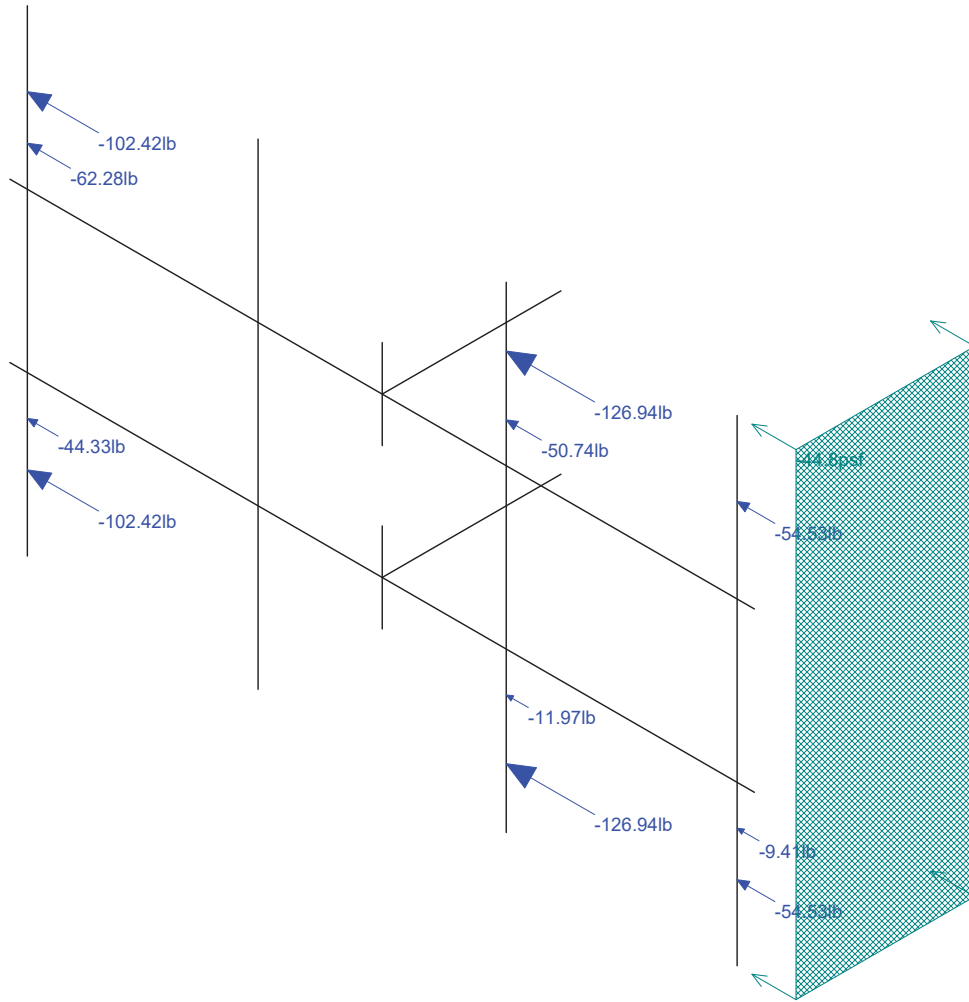
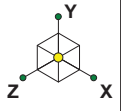
499-006

CTL01028

Wind Load 000

Feb 6, 2019 at 2:10 PM

CTL01028.r3d



Loads: BLC 3, Wind Load AZI 090

Infinigy Engineering, PLLC.

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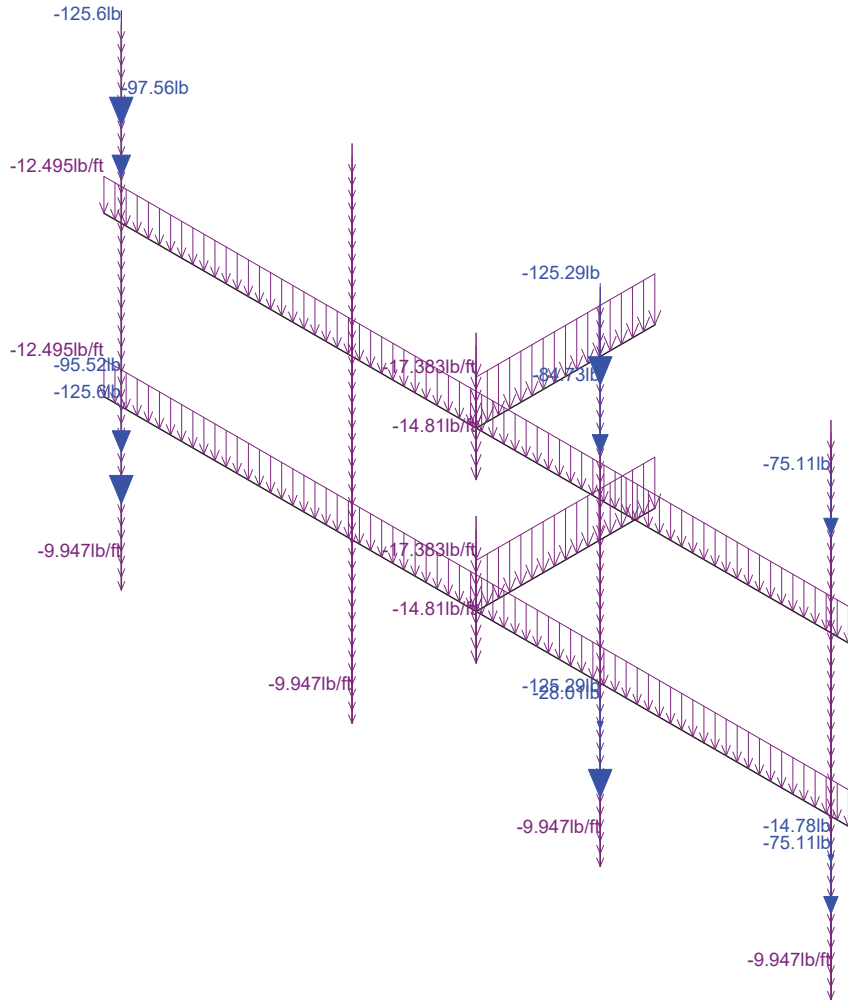
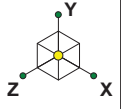
499-006

CTL01028

Wind Load 090

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CTL01028.r3d



Loads: BLC 4, Ice Weight  
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499-006

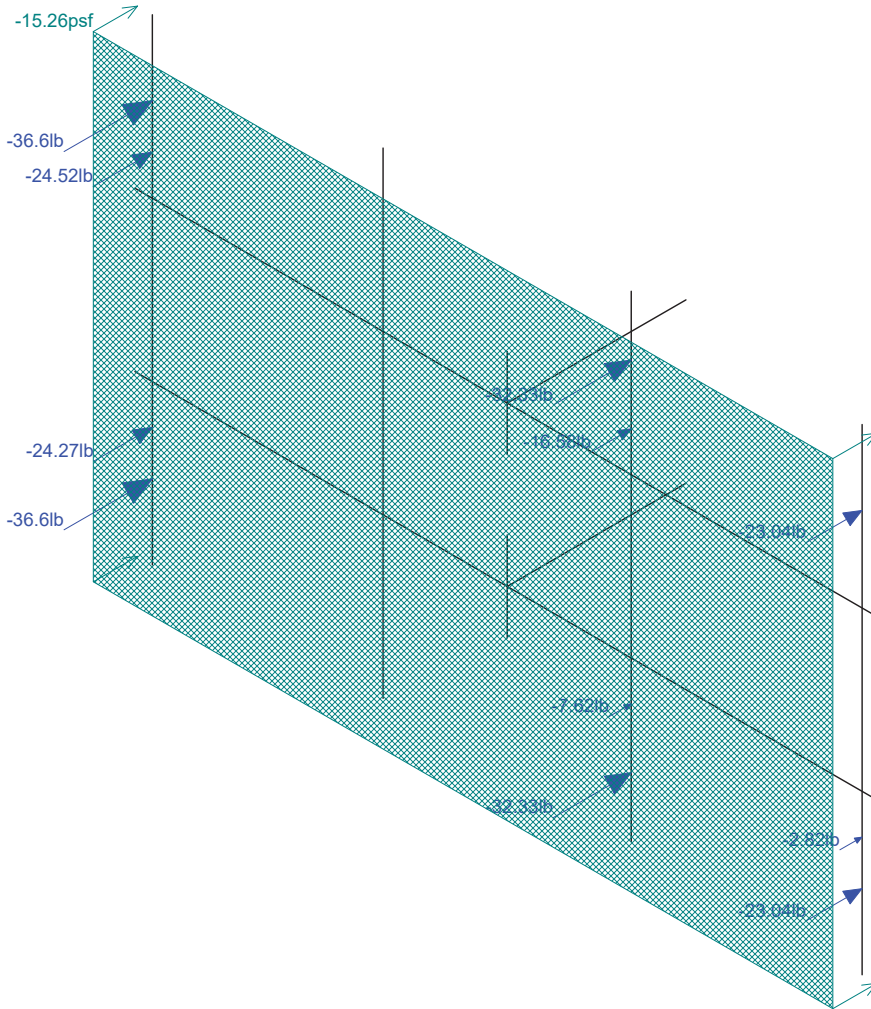
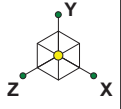
CTL01028

Ice Weight

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CTL01028.r3d





Loads: BLC 5, Wind + Ice Load AZI 000

Infinigy Engineering, PLLC.

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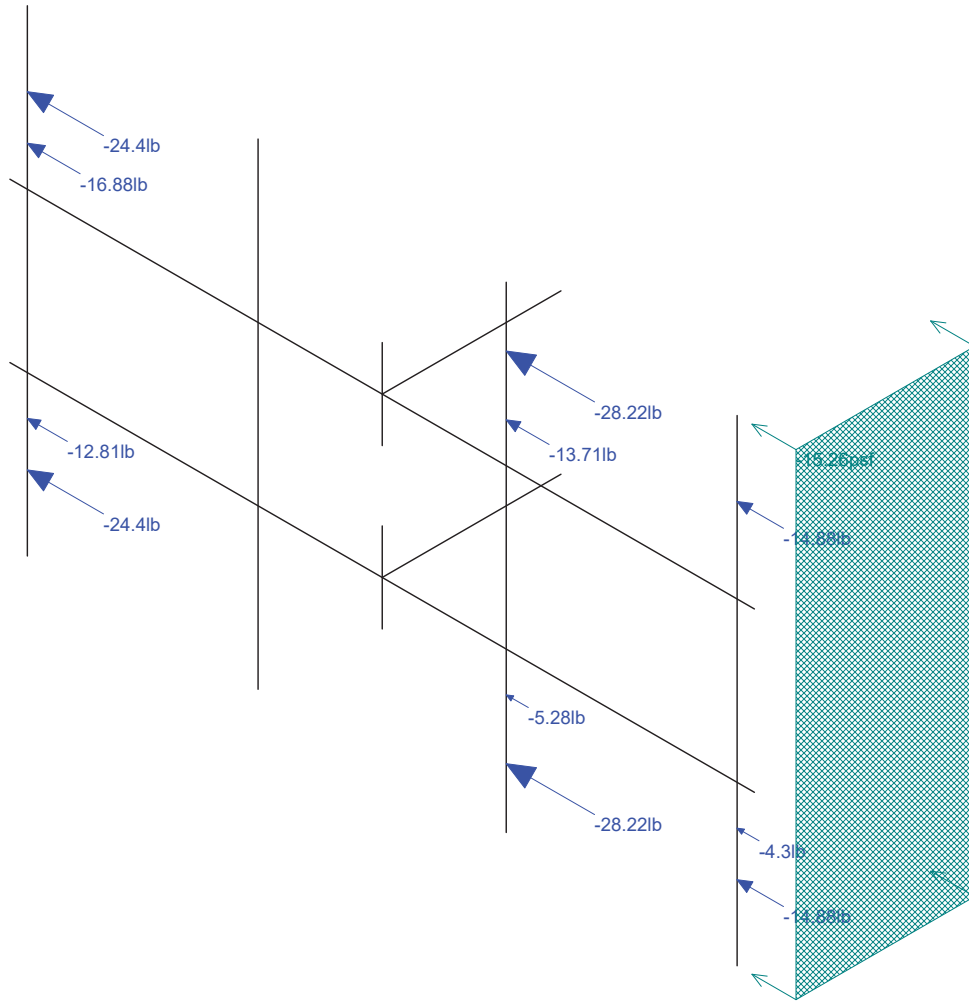
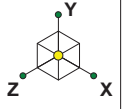
499-006

CTL01028

Wind+Ice 000

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CTL01028.r3d



Loads: BLC 6, Wind + Ice Load AZI 090

Infinigy Engineering, PLLC.

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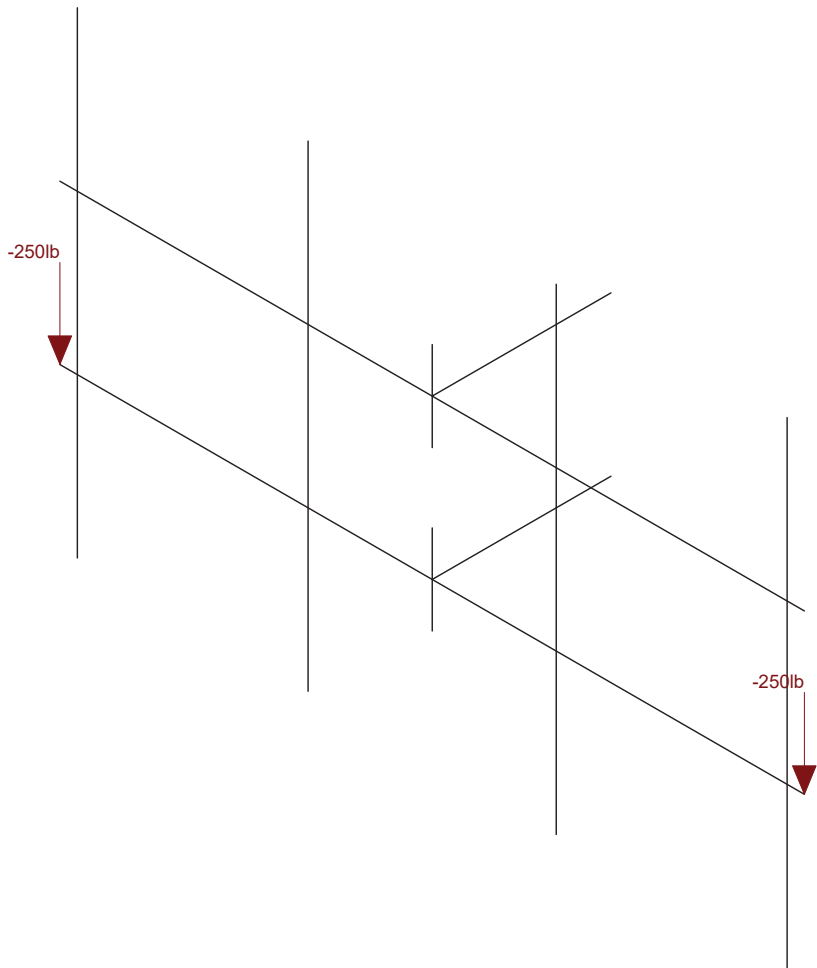
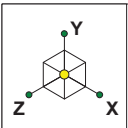
499-006

CTL01028

Wind+Ice 090

Feb 6, 2019 at 2:10 PM

CTL01028.r3d



Loads: BLC 7, Service Live 1

Infinigy Engineering, PLLC.	CTL01028	Service Load
KLB		Feb 6, 2019 at 2:09 PM
499-006		CTL01028.r3d

Site Name:	CTL01028
Client:	Smartlink
Carrier:	AT&T
Engineer:	KLB
Date:	2/6/2019



INFINIGY WIND LOAD CALCULATOR 3.0.2

Site Information Inputs:

Adopted Building Code:	2015 IBC
Structure Load Standard:	TIA-222-H
Antenna Load Standard:	TIA-222-H
Structure Risk Category:	II
Structure Type:	Mount - T-Arm
Number of Sectors:	3
Structure Shape 1:	Round

Rooftop Inputs:

Rooftop Wind Speed-Up?:

Wind Loading Inputs:

Design Wind Velocity:	125	mph (ultimate 3-second gust)
Wind Centerline 1 ( $z_1$ ):	98.0	ft
Side Face Angle ( $\theta$ ):	60	degrees
Exposure Category:	B	
Topographic Category:	1	

Wind with No Ice		
$q_z$ (psf)	Gh	$F_{ST}$ (psf)
37.34	1.00	<b>44.80</b>

Wind with Ice		
$q_z$ (psf)	Gh	$F_{ST}$ (psf)
5.97	1.00	<b>15.26</b>

Ice Loading Inputs:

Is Ice Loading Needed?:	Yes	
Ice Wind Velocity:	50	mph (ultimate 3-second gust)
Base Ice Thickness:	1.70	in

Input Appurtenance Information and Load Placements:

Appurtenance Name	Elevation (ft)	Total Quantity	$K_a$	Front Shape	Side Shape	$q_z$ (psf)	EPA (ft <sup>2</sup> )	Fz (lbs)	Fx (lbs)	Fz(60) (lbs)	Fx(30) (lbs)
CCI OPA-65R-LCUU-H6	98.0	3	1.00	Flat	Flat	37.34	9.49	354.18	204.83	242.17	316.84
Quintel QS66512-2	98.0	3	1.00	Flat	Flat	37.34	8.13	303.67	253.89	266.33	291.23
Powerwave 7770	98.0	3	1.00	Flat	Flat	37.34	5.57	207.86	109.05	133.75	183.16
Ericsson RRUS-11	98.0	3	1.00	Flat	Flat	37.34	2.78	103.96	44.33	59.24	89.05
Ericsson RRUS-32	98.0	3	1.00	Flat	Flat	37.34	2.74	102.40	62.28	72.31	92.37
Ericsson RRUS-8843 B25/B66A	98.0	3	1.00	Flat	Flat	37.34	1.74	65.03	50.74	54.31	61.45
Powerwave LGP 21401	98.0	6	1.00	Flat	Flat	37.34	0.11	3.94	9.41	8.04	5.30
Kaelus DBCT108F1V92-1	98.0	6	1.00	Flat	Flat	37.34	0.60	22.56	11.97	14.61	19.91
Raycap DC6-48-60-18-8F	98.0	2	1.00	Round	Round	37.34	1.21	45.24	45.24	45.24	45.24



Company : Infinigy Engineering, PLLC.  
 Designer : KLB  
 Job Number : 499-006  
 Model Name : CTL01028

Feb 6, 2019  
 2:05 PM  
 Checked By: \_\_\_\_\_

### Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N1			HSS 4"x4"x1/4"	Beam	None	A36 Gr.36	Typical
2	M2	N4	N3			3" STD Pipe	Beam	None	A36 Gr.36	Typical
3	M3	N6	N5			4" STD Pipe	Beam	None	A36 Gr.36	Typical
4	MP1	N40	N41			2.0" STD Pipe	Beam	None	A36 Gr.36	Typical
5	MP4	N46	N47			2.0" STD Pipe	Beam	None	A36 Gr.36	Typical
6	MP2	N42	N43			2.0" STD Pipe	Beam	None	A36 Gr.36	Typical
7	MP3	N44	N45			2.0" STD Pipe	Beam	None	A36 Gr.36	Typical
8	M8	N22	N21			HSS 4"x4"x1/4"	Beam	None	A36 Gr.36	Typical
9	M9	N24	N23			3" STD Pipe	Beam	None	A36 Gr.36	Typical
10	M10	N26	N25			4" STD Pipe	Beam	None	A36 Gr.36	Typical

### Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[LB]
1	Hot Rolled Steel				
2	A36 Gr.36	HSS4X4X4	2	72	68.8
3	A36 Gr.36	PIPE 2.0	4	384	111.1
4	A36 Gr.36	PIPE 3.0	2	300	176.1
5	A36 Gr.36	PIPE 4.0	2	36	30.2
6	Total HR Steel		10	792	386.2

### Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
1	Self Weight	DL		-1			11		
2	Wind Load AZI 000	WLZ					11	1	
3	Wind Load AZI 090	WLX					11	1	
4	Ice Weight	OL1					11	10	
5	Wind + Ice Load AZI ...	OL2					11	1	
6	Wind + Ice Load AZI ...	OL3					11	1	
7	Service Live 1	LL				4			
8	BLC 2 Transient Area...	None						8	
9	BLC 3 Transient Area...	None						8	
10	BLC 5 Transient Area...	None						8	
11	BLC 6 Transient Area...	None						8	

### Load Combinations

	Description	Sol..	PD..	SR..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..
1	1.4D	Yes	Y		DL	1.4									
2	1.2D + 1W...	Yes	Y		DL	1.2	WLZ	1							
3	1.2D + 1W...	Yes	Y		DL	1.2	WLZ	.866	W...	.5					
4	1.2D + 1W...	Yes	Y		DL	1.2	WLZ	.5	W...	.866					
5	1.2D + 1W...	Yes	Y		DL	1.2			W...	1					
6	1.2D + 1W...	Yes	Y		DL	1.2	WLZ	-.5	W...	.866					
7	1.2D + 1W...	Yes	Y		DL	1.2	WLZ	-.866	W...	.5					
8	1.2D + 1W...	Yes	Y		DL	1.2	WLZ	-1							
9	1.2D + 1W...	Yes	Y		DL	1.2	WLZ	-.866	W...	-.5					
10	1.2D + 1W...	Yes	Y		DL	1.2	WLZ	-.5	W...	-.866					
11	1.2D + 1W...	Yes	Y		DL	1.2			W...	-1					
12	1.2D + 1W...	Yes	Y		DL	1.2	WLZ	.5	W...	-.866					
13	1.2D + 1W...	Yes	Y		DL	1.2	WLZ	.866	W...	-.5					
14	0.9D + 1W...	Yes	Y		DL	.9	WLZ	1							
15	0.9D + 1W...	Yes	Y		DL	.9	WLZ	.866	W...	.5					



**Load Combinations (Continued)**

	Description	Sol.	PD	SR	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact
16	0.9D + 1W...	Yes	Y		DL .9	WLZ .5	W...	.866						
17	0.9D + 1W...	Yes	Y		DL .9		W...	1						
18	0.9D + 1W...	Yes	Y		DL .9	WLZ -.5	W...	.866						
19	0.9D + 1W...	Yes	Y		DL .9	WLZ -.866	W...	.5						
20	0.9D + 1W...	Yes	Y		DL .9	WLZ -1								
21	0.9D + 1W...	Yes	Y		DL .9	WLZ -.866	W...	-.5						
22	0.9D + 1W...	Yes	Y		DL .9	WLZ -.5	W...	-.866						
23	0.9D + 1W...	Yes	Y		DL .9		W...	-1						
24	0.9D + 1W...	Yes	Y		DL .9	WLZ .5	W...	-.866						
25	0.9D + 1W...	Yes	Y		DL .9	WLZ .866	W...	-.5						
26	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1								
27	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1	OL2 1							
28	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1	OL2 .866	OL3 .5						
29	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1	OL2 .5	OL3 .866						
30	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1		OL3 1						
31	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1	OL2 -.5	OL3 .866						
32	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1	OL2 -.866	OL3 .5						
33	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1	OL2 -1							
34	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1	OL2 -.866	OL3 -.5						
35	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1	OL2 -.5	OL3 -.866						
36	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1		OL3 -1						
37	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1	OL2 .5	OL3 -.866						
38	1.2D + 1.0...	Yes	Y		DL 1.2	OL1 1	OL2 .866	OL3 -.5						
39	1.2D + 1.5...	Yes	Y		DL 1.2	LL 1.5	WLZ .058							
40	1.2D + 1.5...	Yes	Y		DL 1.2	LL 1.5	WLZ .05	W...	.029					
41	1.2D + 1.5...	Yes	Y		DL 1.2	LL 1.5	WLZ .029	W...	.05					
42	1.2D + 1.5...	Yes	Y		DL 1.2	LL 1.5		W...	.058					
43	1.2D + 1.5...	Yes	Y		DL 1.2	LL 1.5	WLZ -.029	W...	.05					
44	1.2D + 1.5...	Yes	Y		DL 1.2	LL 1.5	WLZ -.05	W...	.029					
45	1.2D + 1.5...	Yes	Y		DL 1.2	LL 1.5	WLZ -.058							
46	1.2D + 1.5...	Yes	Y		DL 1.2	LL 1.5	WLZ -.05	W...	-.029					
47	1.2D + 1.5...	Yes	Y		DL 1.2	LL 1.5	WLZ -.029	W...	-.05					
48	1.2D + 1.5...	Yes	Y		DL 1.2	LL 1.5		W...	-.058					
49	1.2D + 1.5...	Yes	Y		DL 1.2	LL 1.5	WLZ .029	W...	-.05					
50	1.2D + 1.5...	Yes	Y		DL 1.2	LL 1.5	WLZ .05	W...	-.029					

**Envelope Joint Reactions**

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC	
1	N1	max	463.949	17	1403.217	33	1037.06	2	-820.934	16	1520.286	16	-39.127	23
2		min	-690.912	11	230.699	14	-776.586	20	-3438.665	35	-2024.658	10	-244.899	30
3	N21	max	738.583	5	1406.43	27	822.029	14	-827.491	22	2095.116	4	-55.754	24
4		min	-511.864	23	231.212	20	-1083.346	8	-3444.778	29	-1611.771	22	-241.278	34
5	Totals:	max	1170.243	17	2743.641	38	1822.232	14						
6		min	-1170.243	11	743.725	14	-1822.232	8						

**Hot Rolled Steel Section Sets**

Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	3" STD Pipe	PIPE 3.0	Beam	None	A36 Gr.36	Typical	2.07	2.85	5.69
2	HSS 4"x4"x1/4"	HSS4X4X4	Beam	None	A36 Gr.36	Typical	3.37	7.8	12.8
3	4" STD Pipe	PIPE 4.0	Beam	None	A36 Gr.36	Typical	2.96	6.82	13.6
4	2.0" STD Pipe	PIPE_2.0	Beam	None	A36 Gr.36	Typical	1.02	.627	1.25



**Joint Boundary Conditions**

	Joint Label	X [lb/in]	Y [lb/in]	Z [lb/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	N21	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

**Member Advanced Data**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M3						Yes				None
4	MP1						Yes				None
5	MP4						Yes				None
6	MP2						Yes				None
7	MP3						Yes				None
8	M8						Yes				None
9	M9						Yes				None
10	M10						Yes				None

**Hot Rolled Steel Properties**

	Label	E [psi]	G [psi]	Nu	Therm (\1E5 F)	Density[lb/ft^...	Yield[psi]	Ry	Fu[psi]	Rt
1	A992	2.9e+7	1.115e+7	.3	.65	490	50000	1.1	65000	1.1
2	A36 Gr.36	2.9e+7	1.115e+7	.3	.65	490	36000	1.5	58000	1.2
3	A572 Gr.50	2.9e+7	1.115e+7	.3	.65	490	50000	1.1	65000	1.1
4	A500 Gr.B RND	2.9e+7	1.115e+7	.3	.65	527	42000	1.4	58000	1.3
5	A500 Gr.B Rect	2.9e+7	1.115e+7	.3	.65	527	46000	1.4	58000	1.3
6	A53 Gr.B	2.9e+7	1.115e+7	.3	.65	490	35000	1.6	60000	1.2
7	A1085	2.9e+7	1.115e+7	.3	.65	490	50000	1.4	65000	1.3

**Joint Loads and Enforced Displacements (BLC 7 : Service Live 1)**

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	N4	L	Y	-250
2	N3	L	Y	-250
3	N23	L	Y	-250
4	N24	L	Y	-250

**Member Point Loads (BLC 1 : Self Weight)**

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP4	Y	-38.05	15
2	MP2	Y	-63.3	12
3	MP1	Y	-17.5	15
4	MP4	Y	-50.71	24
5	MP4	Y	-60	72
6	MP2	Y	-71.87	72
7	MP1	Y	-6	24
8	MP2	Y	-13.9	24
9	MP4	Y	-38.05	81
10	MP2	Y	-63.3	84
11	MP1	Y	-17.5	81

**Member Point Loads (BLC 2 : Wind Load AZI 000)**

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
--	--------------	-----------	---------------------	----------------



**Member Point Loads (BLC 2 : Wind Load AZI 000) (Continued)**

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP4	Z	-177.09	15
2	MP2	Z	-151.84	12
3	MP1	Z	-103.93	15
4	MP4	Z	-103.96	24
5	MP4	Z	-102.4	72
6	MP2	Z	-65.03	72
7	MP1	Z	-3.94	24
8	MP2	Z	-22.56	24
9	MP4	Z	-177.09	81
10	MP2	Z	-151.84	84
11	MP1	Z	-103.93	81

**Member Point Loads (BLC 3 : Wind Load AZI 090)**

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP4	X	-102.42	15
2	MP2	X	-126.94	12
3	MP1	X	-54.53	15
4	MP4	X	-44.33	24
5	MP4	X	-62.28	72
6	MP2	X	-50.74	72
7	MP1	X	-9.41	24
8	MP2	X	-11.97	24
9	MP4	X	-102.42	81
10	MP2	X	-126.94	84
11	MP1	X	-54.53	81

**Member Point Loads (BLC 4 : Ice Weight)**

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP4	Y	-125.6	15
2	MP2	Y	-125.29	12
3	MP1	Y	-75.11	15
4	MP4	Y	-95.52	24
5	MP4	Y	-97.56	72
6	MP2	Y	-84.73	72
7	MP1	Y	-14.78	24
8	MP2	Y	-28.01	24
9	MP4	Y	-125.6	81
10	MP2	Y	-125.29	84
11	MP1	Y	-75.11	81

**Member Point Loads (BLC 5 : Wind + Ice Load AZI 000)**

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP4	Z	-36.6	15
2	MP2	Z	-32.33	12
3	MP1	Z	-23.04	15
4	MP4	Z	-24.27	24
5	MP4	Z	-24.52	72
6	MP2	Z	-16.58	72
7	MP1	Z	-2.82	24
8	MP2	Z	-7.62	24
9	MP4	Z	-36.6	81
10	MP2	Z	-32.33	84
11	MP1	Z	-23.04	81





**Member Point Loads (BLC 6 : Wind + Ice Load AZI 090)**

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
1	MP4	X	-24.4	15
2	MP2	X	-28.22	12
3	MP1	X	-14.88	15
4	MP4	X	-12.81	24
5	MP4	X	-16.88	72
6	MP2	X	-13.71	72
7	MP1	X	-4.3	24
8	MP2	X	-5.28	24
9	MP4	X	-24.4	81
10	MP2	X	-28.22	84
11	MP1	X	-14.88	81

**Member Distributed Loads (BLC 4 : Ice Weight)**

	Member Label	Direction	Start Magnitude[lb/ft, ...]	End Magnitude[lb/ft, ...]	Start Location[in, %]	End Location[in, %]
1	M1	Y	-17.383	-17.383	0	%100
2	M2	Y	-12.495	-12.495	0	%100
3	M3	Y	-14.81	-14.81	0	%100
4	MP1	Y	-9.947	-9.947	0	%100
5	MP4	Y	-9.947	-9.947	0	%100
6	MP2	Y	-9.947	-9.947	0	%100
7	MP3	Y	-9.947	-9.947	0	%100
8	M8	Y	-17.383	-17.383	0	%100
9	M9	Y	-12.495	-12.495	0	%100
10	M10	Y	-14.81	-14.81	0	%100

**Member Distributed Loads (BLC 8 : BLC 2 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft, ...]	End Magnitude[lb/ft, ...]	Start Location[in, %]	End Location[in, %]
1	M2	Z	-13.067	-13.067	.5	149.5
2	M3	Z	-16.8	-16.8	0	18
3	MP1	Z	-8.867	-8.867	0	96
4	MP4	Z	-8.867	-8.867	0	96
5	MP2	Z	-8.867	-8.867	0	96
6	MP3	Z	-8.867	-8.867	0	96
7	M9	Z	-13.067	-13.067	.5	149.5
8	M10	Z	-16.8	-16.8	0	18

**Member Distributed Loads (BLC 9 : BLC 3 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft, ...]	End Magnitude[lb/ft, ...]	Start Location[in, %]	End Location[in, %]
1	M1	X	-14.933	-14.933	0	36
2	M3	X	-16.8	-16.8	0	18
3	MP1	X	-8.867	-8.867	0	96
4	MP4	X	-8.867	-8.867	0	96
5	MP2	X	-8.867	-8.867	0	96
6	MP3	X	-8.867	-8.867	0	96
7	M8	X	-14.933	-14.933	0	36
8	M10	X	-16.8	-16.8	0	18

**Member Distributed Loads (BLC 10 : BLC 5 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft, ...]	End Magnitude[lb/ft, ...]	Start Location[in, %]	End Location[in, %]
1	M2	Z	-4.451	-4.451	.5	149.5
2	M3	Z	-5.723	-5.723	0	18
3	MP1	Z	-3.02	-3.02	0	96
4	MP4	Z	-3.02	-3.02	0	96
5	MP2	Z	-3.02	-3.02	0	96



Company : Infinigy Engineering, PLLC.  
 Designer : KLB  
 Job Number : 499-006  
 Model Name : CTL01028

Feb 6, 2019  
 2:05 PM  
 Checked By: \_\_\_\_\_

**Member Distributed Loads (BLC 10 : BLC 5 Transient Area Loads) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
6	MP3	Z	-3.02	-3.02	0	96
7	M9	Z	-4.451	-4.451	.5	149.5
8	M10	Z	-5.723	-5.723	0	18

**Member Distributed Loads (BLC 11 : BLC 6 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
1	M1	X	-5.087	-5.087	0	36
2	M3	X	-5.723	-5.723	0	18
3	MP1	X	-3.02	-3.02	0	96
4	MP4	X	-3.02	-3.02	0	96
5	MP2	X	-3.02	-3.02	0	96
6	MP3	X	-3.02	-3.02	0	96
7	M8	X	-5.087	-5.087	0	36
8	M10	X	-5.723	-5.723	0	18

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

Member	Shape	Code Check	Loc[in]	LC	Shear	Loc[in]	Dir	LC	phi*Pnc	phi*Pnt	phi*Mn	phi*Mn	Cb	Eqn
1	MP4	PIPE 2.0	.530	64	.091	64		40	15009.5...	33048	1925.1	1925.1	4...	H1-1b
2	MP1	PIPE 2.0	.461	64	.080	64		49	15009.5...	33048	1925.1	1925.1	4...	H1-1b
3	MP3	PIPE 2.0	.457	32	.089	32		50	15009.5...	33048	1925.1	1925.1	4...	H1-1b
4	MP2	PIPE 2.0	.434	64	.088	64		46	15009.5...	33048	1925.1	1925.1	4...	H1-1b
5	M9	PIPE 3.0	.412	75	.103	75		27	54088.7...	67068	5913	5913	1	H1-1b
6	M2	PIPE 3.0	.411	75	.104	75		33	54088.7...	67068	5913	5913	1	H1-1b
7	M8	HSS4X4X4	.372	36	.069	36	y	27	107836...	109188	12663	12663	1...	H1-1b
8	M1	HSS4X4X4	.371	36	.069	36	y	33	107836...	109188	12663	12663	1...	H1-1b
9	M10	PIPE 4.0	.000	9	.000	9		8	95196.6...	95904	10935	10935	1...	H1-1b
10	M3	PIPE 4.0	.000	9	.000	9		8	95196.6...	95904	10935	10935	1...	H1-1b

SHEET INDEX

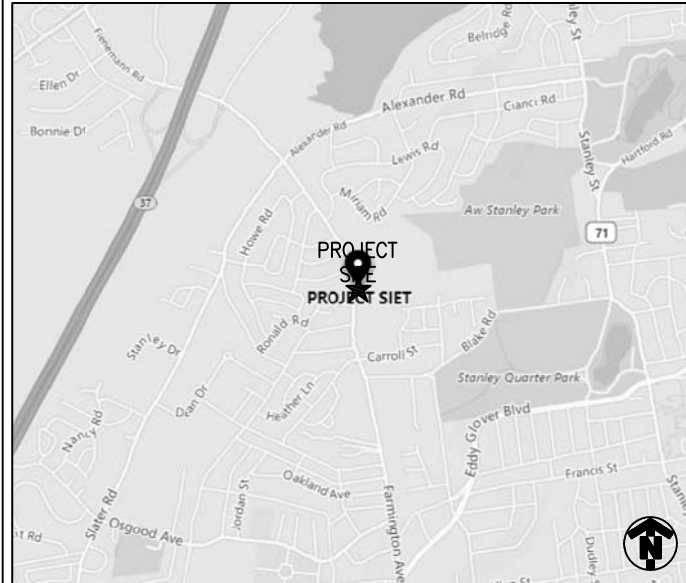
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C1	GENERAL NOTES
C2	OVERALL & ENLARGED SITE PLAN
C3	ELEVATION VIEW
C4	ANTENNA ORIENTATION PLAN
C5	EQUIPMENT DETAILS
C6	PLUMBING DIAGRAM
C7	GROUNDING DETAILS

DRIVING DIRECTIONS

FROM 550 COCHITUATE RD.:

GET ON I-90 WEST/MASSACHUSETTS TURNPIKE. HEAD SOUTHWEST. TURN LEFT TOWARD MCCALL CONN. TURN LEFT ONTO MCCALL CONN. CONTINUE ONTO BURR STREET. TURN LEFT ONTO COCHITUATE ROAD. USE THE RIGHT LANE TO TAKE THE RAMP TO I-90 EAST/MASSPIKE WEST/SPRINGFIELD/BOSTON. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR I-90 WEST/MASSACHUSETTS TURNPIKE/WORCESTER/SPRINGFIELD AND MERGE ONTO I-90 WEST/MASSACHUSETTS TURNPIKE. FOLLOW I-90 WEST/MASSACHUSETTS TURNPIKE AND I-84 TO FIENEMANN ROAD IN FARMINGTON. TAKE EXIT 37 FROM I-84. MERGE ONTO I-90 WEST/MASSACHUSETTS TURNPIKE. USE THE RIGHT 2 LANES TO TAKE EXIT 9 FOR I-84 TOWARD US-20/HARTFORD/NEW YORK CITY. CONTINUE I-84. KEEP RIGHT TO STAY ON I-84. TAKE EXIT TO STAY ON I-84. TAKE EXIT 37 FOR FIENEMANN ROAD. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR CENTRAL CONN STATE UNIVERSITY AND MERGE ONTO FIENEMANN ROAD. CONTINUE ON FIENEMANN ROAD TO YOUR DESTINATION IN NEW BRITAIN. MERGE ONTO FIENEMANN ROAD. CONTINUE ONTO FARMINGTON AVE. TURN LEFT.

LOCATION MAP



**PROJECT**  
**LTE 3C/4C/5C/RETROFIT**  
**SITE NAME**  
**NEW BRITAIN FARMINGTON AVE.**

**CELL SITE ID**  
**CTL01028**  
**FA SITE NUMBER**  
**10065751**  
**PAGE ID**  
**MRCTB031093/MRCTB032077/**  
**MRCTB031563/MRCTB032052**  
**SITE ADDRESS**  
**723 FARMINGTON AVENUE**  
**NEW BRITAIN, CT 06503**  
**STRUCTURE TYPE**  
**MONOPOLE**

PROJECT TEAM



**PROJECT MANAGER**



1033 Watervliet Shaker Rd  
Albany, NY 12205  
Office # (518) 690-0790  
Fax # (518) 690-0793

**ENGINEER**

- SCOPE OF WORK (PER LTE RFDS, DATED: 6/13/2018, V2.00):**
- HANDICAP ACCESS REQUIREMENTS ARE NOT REQUIRED.
  - FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
  - FACILITY HAS NO PLUMBING OR REFRIGERANTS.
  - THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATORY REQUIREMENTS.
  - ALL NEW MATERIAL SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE. EQUIPMENT, ANTENNAS/RRU AND CABLES FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
- TOWER SCOPE**
- REMOVE (3) PANEL ANTENNAS
  - INSTALL (3) PANEL ANTENNAS
  - REMOVE (3) RRUS-12 W/A2
  - INSTALL (3) B25/B66A 8843
  - INSTALL (3) RRUS-32
  - INSTALL (1) DC6 SQUID W/(1) FIBER CABLE AND (2) DC CABLES
  - REPLACE EXISTING ANTENNA PLATFORM WITH T-ARM MOUNTS
- GROUND SCOPE**
- SWAP DUS W/ 5216
  - ADD 2ND XMU
  - ADD RBS 6630
  - INSTALL (3) 4478 B5
  - INSTALL (1) DC12-48-60-RM

PROJECT SUMMARY

<b>SITE NAME:</b>	NEW BRITAIN FARMINGTON AVE.	
<b>CELL SITE ID:</b>	CTL01028	
<b>FA SITE #:</b>	10065751	
<b>SITE ADDRESS:</b>	723 FARMINGTON AVENUE NEW BRITAIN, CT 06503	
<b>COUNTY:</b>	HARTFORD	
<b>SITE COORDINATES:</b>		
<b>LATITUDE:</b>	41.6983250° N	(NAD 83)
<b>LONGITUDE:</b>	72.7861931° W	(NAD 83)
<b>ELEVATION:</b>	±315'	(AMSL)
<b>RAD CENTER:</b>	±98'	(AGL)
<b>LANDLORD:</b>	SBA COMMUNICATIONS CORP. 8051 CONGRESS AVE. BOCA RATON, FL 33487 SITE ID#: CT08558-S	
<b>APPLICANT:</b>	AT&T MOBILITY 550 COCHITUATE RD. FRAMINGHAM, MA 01701	
<b>CLIENT REPRESENTATIVE:</b>	SMARTLINK, LLC 85 RANGEWAY RD. SUITE 102 NORTH BILLERICA, MA 01862	
<b>CONTACT:</b>	ED WEISSMAN (917) 528-1857	
<b>ENGINEER:</b>	INFINIGY 1033 WATERVLIET SHAKER ROAD ALBANY, NY 12205	
<b>CONTACT:</b>	ALEX WELLER (518) 690-0790	
<b>BUILDING CODE:</b>	CT BUILDING CODE UNIFORM BUILDING CODE BUILDING OFFICIALS & CODE ADMINISTRATORS UNIFORM MECHANICAL CODE UNIFORM PLUMBING CODE LOCAL BUILDING CODE CITY/COUNTY ORDINANCES	
<b>ELECTRICAL CODE:</b>	NATIONAL ELECTRICAL CODE (LATEST EDITION)	



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CONNECTICUT STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

**INFINIGY**  
INFINIGY ENGINEERING, PLLC  
1033 Watervliet Shaker Rd  
Albany, NY 12205  
Office # (518) 690-0790  
Fax # (518) 690-0793


No.	Submission / Revision	App'd	Date
3	REVISED FOR PERMIT	BMM	02/15/19
2	REVISED FOR PERMIT	BMM	08/23/18
1	ISSUED FOR PERMIT	BMM	07/25/18
0	ISSUED FOR REVIEW	BMM	07/10/18

Drawn: BMM Date: 07/10/18  
Designed: ASW Date: 07/10/18  
Checked: AW Date: 07/10/18

Project Number: 499-006

Project Title:  
**NEW BRITAIN FARMINGTON AVE.**  
**CTL01028**  
**FA# 10065751**  
723 FARMINGTON AVENUE  
NEW BRITAIN, CT 06503

Prepared For:



Drawing Scale: AS NOTED

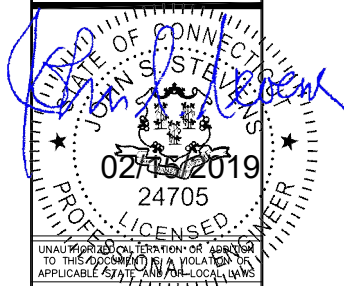
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Drawing Title:  
**TITLE PAGE**

Drawing Number:  
**T1**





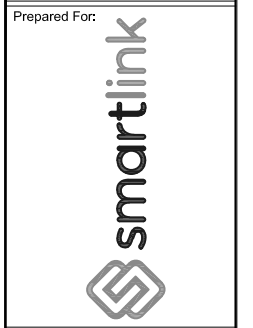
UNLAWFUL TO REPRODUCE OR TRANSMIT IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF INFINIGY ENGINEERING, PLLC. VIOLATION OF APPLICABLE STATE AND LOCAL LAWS.

No.	Submittal / Revision	App'd	Date
3	REVISED FOR PERMIT	BMM	02/15/19
2	REVISED FOR PERMIT	BMM	08/23/18
1	ISSUED FOR PERMIT	BMM	07/25/18
0	ISSUED FOR REVIEW	BMM	07/10/18

Drawn: BMM Date: 07/10/18  
 Designed: ASW Date: 07/10/18  
 Checked: AD Date: 07/10/18

Project Number: 499-006

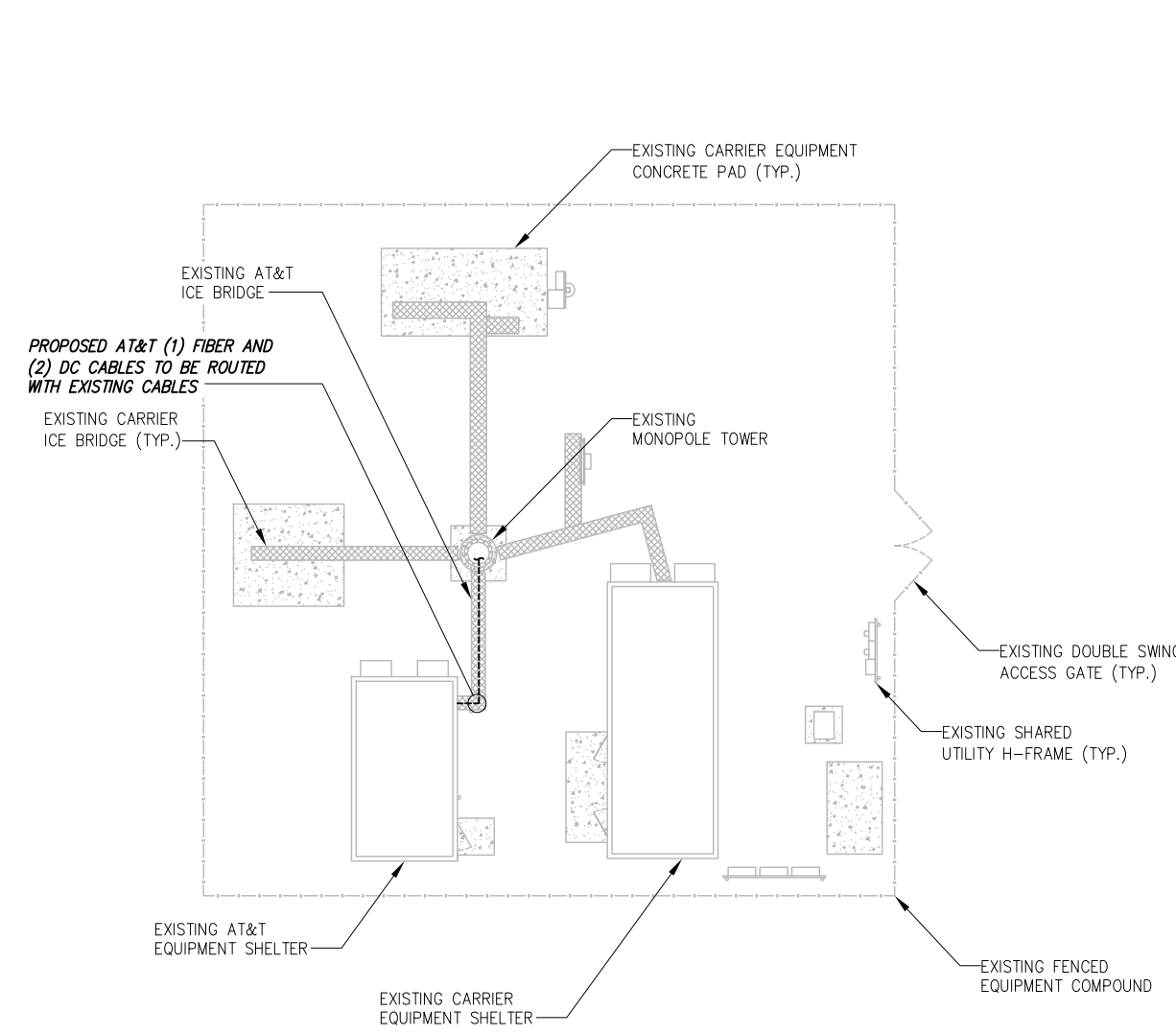
Project Title:  
**NEW BRITAIN FARMINGTON AVE.**  
 CTL01028  
 FA# 10065751  
 723 FARMINGTON AVENUE  
 NEW BRITAIN, CT 06503



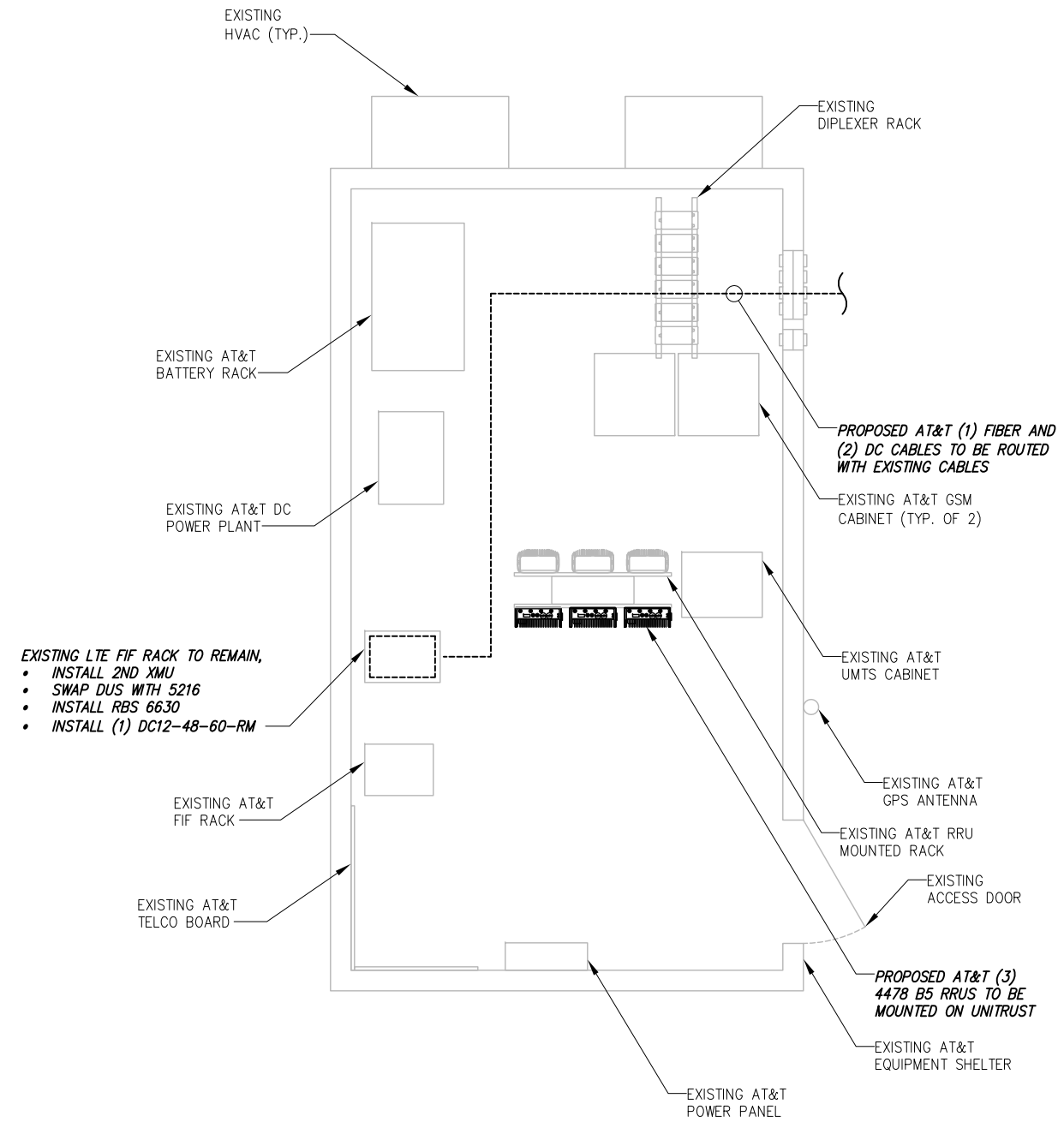
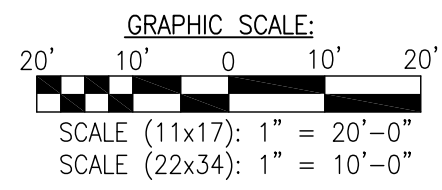
Drawing Scale: AS NOTED  
 Date: 02/15/19  
**CD**

Drawing Title:  
**OVERALL & ENLARGED SITE PLAN**

Drawing Number:  
**C2**

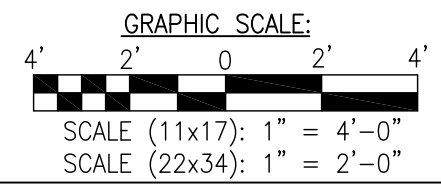


**1** OVERALL COMPOUND PLAN  
 SCALE: AS NOTED



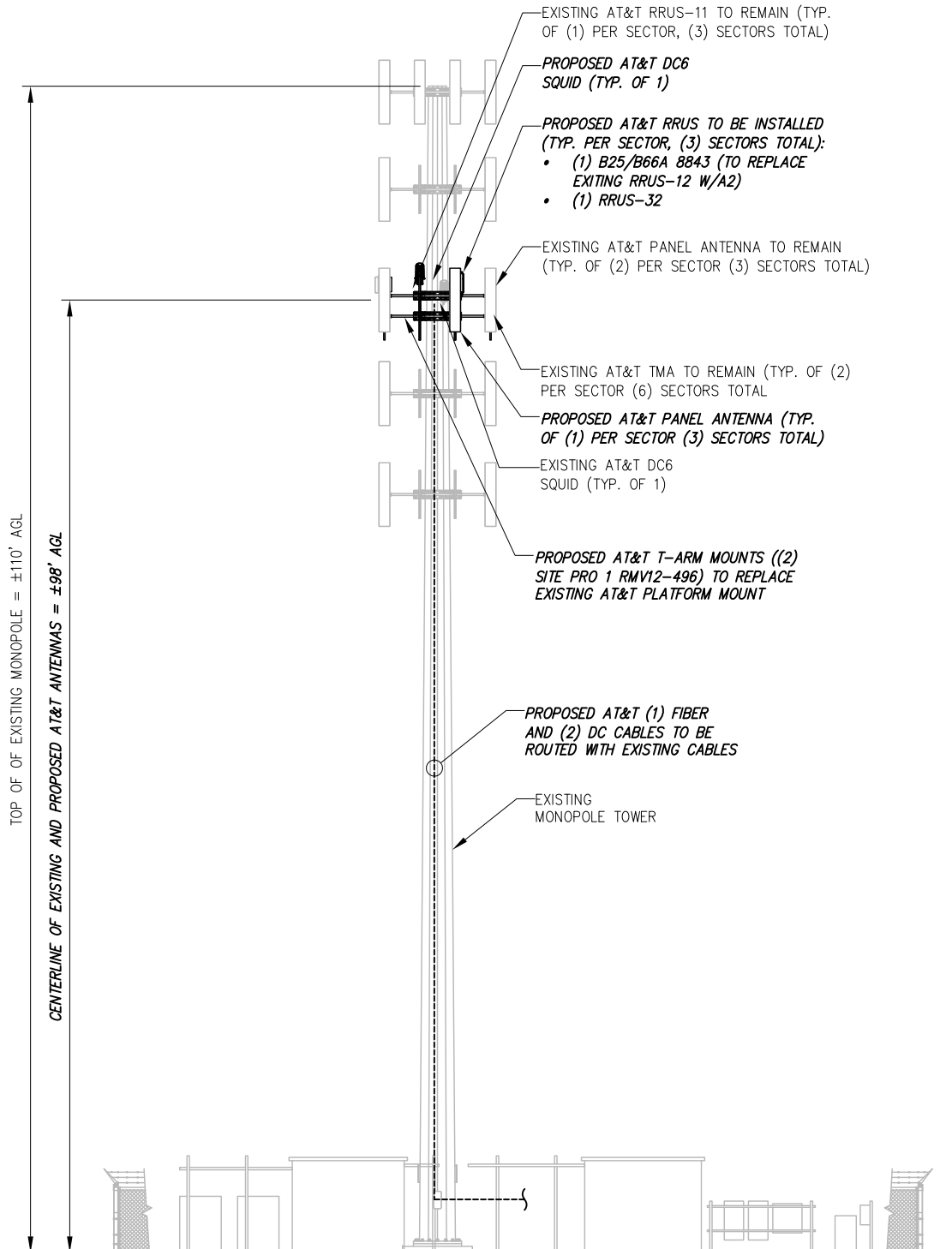
- EXISTING LTE FIF RACK TO REMAIN,  
 • INSTALL 2ND XMU  
 • SWAP DUS WITH 5216  
 • INSTALL RBS 6630  
 • INSTALL (1) DC12-48-60-RM

**2** ENLARGED EQUIPMENT PLAN  
 SCALE: AS NOTED



BASEMAPPING PREPARED FROM A SITE WALK PERFORMED BY INFINIGY ENGINEERING ON 05/22/18 AND PROVIDED INFORMATION, AND DOES NOT REPRESENT AN ACTUAL FIELD SURVEY.





TOP OF OF EXISTING MONOPOLE = ±110' AGL  
 CENTERLINE OF EXISTING AND PROPOSED AT&T ANTENNAS = ±98' AGL

**NOTE:**

- INFINIGY ENGINEERING HAS NOT EVALUATED THE TOWER LOADING FOR THIS SITE, AND ASSUMES NO RESPONSIBILITY FOR ITS STRUCTURAL INTEGRITY REGARDING ITS EXISTING OR PROPOSED LOADING. FINAL INSTALLATION TO COMPLY WITH RESULTS OF PASSING STRUCTURAL ANALYSIS.
- FOR ADDITIONAL INFORMATION PERTAINING TO THE ANTENNA MOUNT, SEE MOUNT ANALYSIS, COMPLETED BY INFINIGY, DATED 02/06/19. EXISTING AT&T PLATFORM MOUNT TO BE REPLACED WITH (2) RMV12-496 T-ARM MOUNTS.

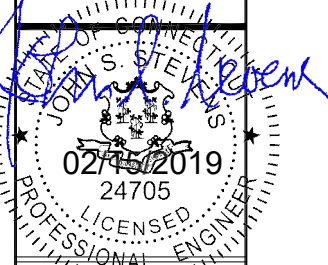
**SEPARATION NOTE:**

- 3 FEET MINIMUM SEPARATION BETWEEN LTE ANTENNA
- 6 FEET MINIMUM SEPARATION BETWEEN 700BC & 700 DE

FINAL ANTENNA CONFIGURATION & CABLE SCHEDULE BASED ON LTE RFDS DATED 6/13/18, V 2.00

SECTOR	ANTENNA POSITION	ANTENNA STATUS & TECHNOLOGY	ANTENNA MANF/MODEL	TMA/ DIPLEXER	RRUS	AZIMUTH	ANTENNA HEIGHT	CABLE FEEDER		RAYCAP UNIT
								TYPE	LENGTH	
ALPHA	A-1	(E) UMTS 850/1900	POWERWAVE 7770	(2) (E) LGP21401	--	30°	±98'	(2) (E) 1-5/8" COAX CABLES	±120'	(1) (E) DC6 'SQUID' (1) (P) DC6 'SQUID'
	A-2	(P) LTE 850/1900 /AWS/5G	QUINTEL QS66512-2	(2) (P) DBCT108F1V92-1	(1) (P) 4478 B5 (GROUND) (1) (P) B25/B66A 8843	30°	±98'	(2) (E) 1-5/8" COAX CABLES (1) (P) FIBER CABLE (2) (P) DC CABLES	±120'	
	A-3	--	--	--	--	--	--	--	--	
	A-4	(E) LTE 700/WCS	CCI OPA-65R-LCUU-H6	--	--	(1) (E) RRUS-11 (1) (P) RRUS-32	30°	±98'	(1) (E) FIBER CABLE (2) (E) DC CABLES	
BETA	B-1	(E) UMTS 850/1900	POWERWAVE 7770	(2) (E) LGP21401	--	160°	±98'	(2) (E) 1-5/8" COAX CABLES	±120'	(1) (E) DC6 'SQUID' (1) (P) DC6 'SQUID'
	B-2	(P) LTE 850/1900 /AWS/5G	QUINTEL QS66512-2	(2) (P) DBCT108F1V92-1	(1) (P) 4478 B5 (GROUND) (1) (P) B25/B66A 8843	160°	±98'	(2) (E) 1-5/8" COAX CABLES SEE A-2 FOR FIBER/DC INFORMATION	±120'	
	B-3	--	--	--	--	--	--	--	--	
	B-4	(E) LTE 700/WCS	CCI OPA-65R-LCUU-H6	--	--	(1) (E) RRUS-11 (1) (P) RRUS-32	160°	±98'	SEE A-2 FOR FIBER/DC INFORMATION	
GAMMA	G-1	(E) UMTS 850/1900	POWERWAVE 7770	(2) (E) LGP21401	--	270°	±98'	(2) (E) 1-5/8" COAX CABLES	±120'	(1) (E) DC6 'SQUID' (1) (P) DC6 'SQUID'
	G-2	(P) LTE 850/1900 /AWS/5G	QUINTEL QS66512-2	(2) (P) DBCT108F1V92-1	(1) (P) 4478 B5 (GROUND) (1) (P) B25/B66A 8843	270°	±98'	(2) (E) 1-5/8" COAX CABLES SEE A-2 FOR FIBER/DC INFORMATION	±120'	
	G-3	--	--	--	--	--	--	--	--	
	G-4	(E) LTE 700/WCS	CCI OPA-65R-LCUU-H6	--	--	(1) (E) RRUS-11 (1) (P) RRUS-32	270°	±98'	SEE A-2 FOR FIBER/DC INFORMATION	

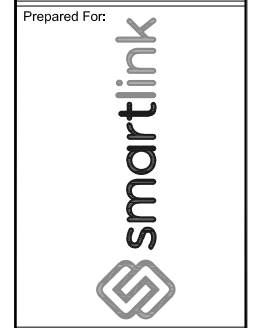
**INFINIGY**  
 INFINIGY ENGINEERING, PLLC  
 1033 WaterMet Shaker Rd  
 Albany, NY 12205  
 Office # (518) 690-0790  
 Fax # (518) 690-0793



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Drawn:	BMM	Date:	07/10/18
Designed:	ASW	Date:	07/10/18
Checked:	AD	Date:	07/10/18
Project Number: 499-006			

Project Title:  
**NEW BRITAIN FARMINGTON AVE.**  
 CTL01028  
 FA# 10065751  
 723 FARMINGTON AVENUE  
 NEW BRITAIN, CT 06503



Drawing Scale: AS NOTED  
 Date: 02/15/19  
**CD**

Drawing Title:  
**ELEVATION VIEW**

Drawing Number:  
**C3**

**1** ELEVATION VIEW  
 NOT TO SCALE

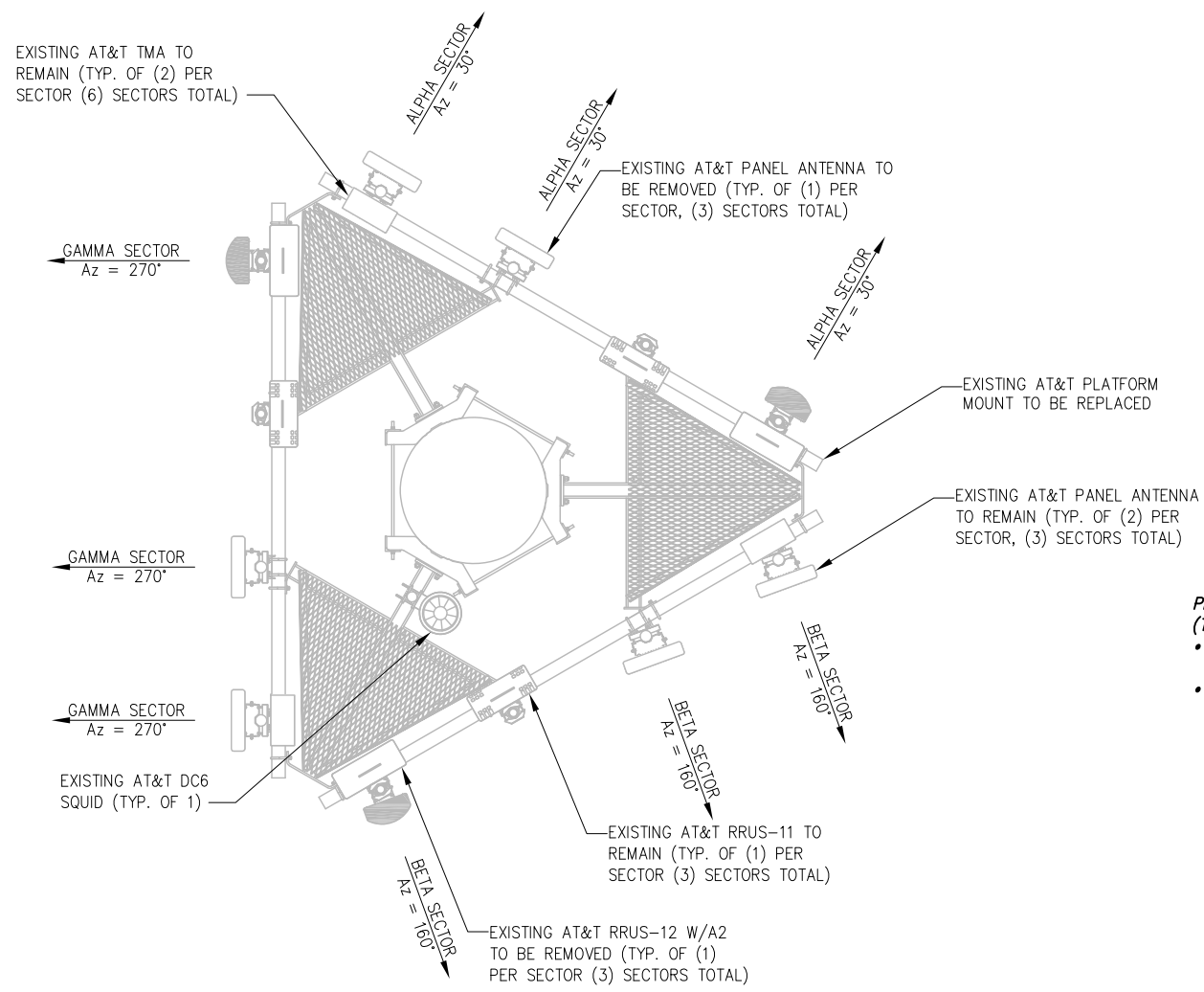
**2** AT&T ANTENNA SCHEDULE  
 NOT TO SCALE

**NOTE:**

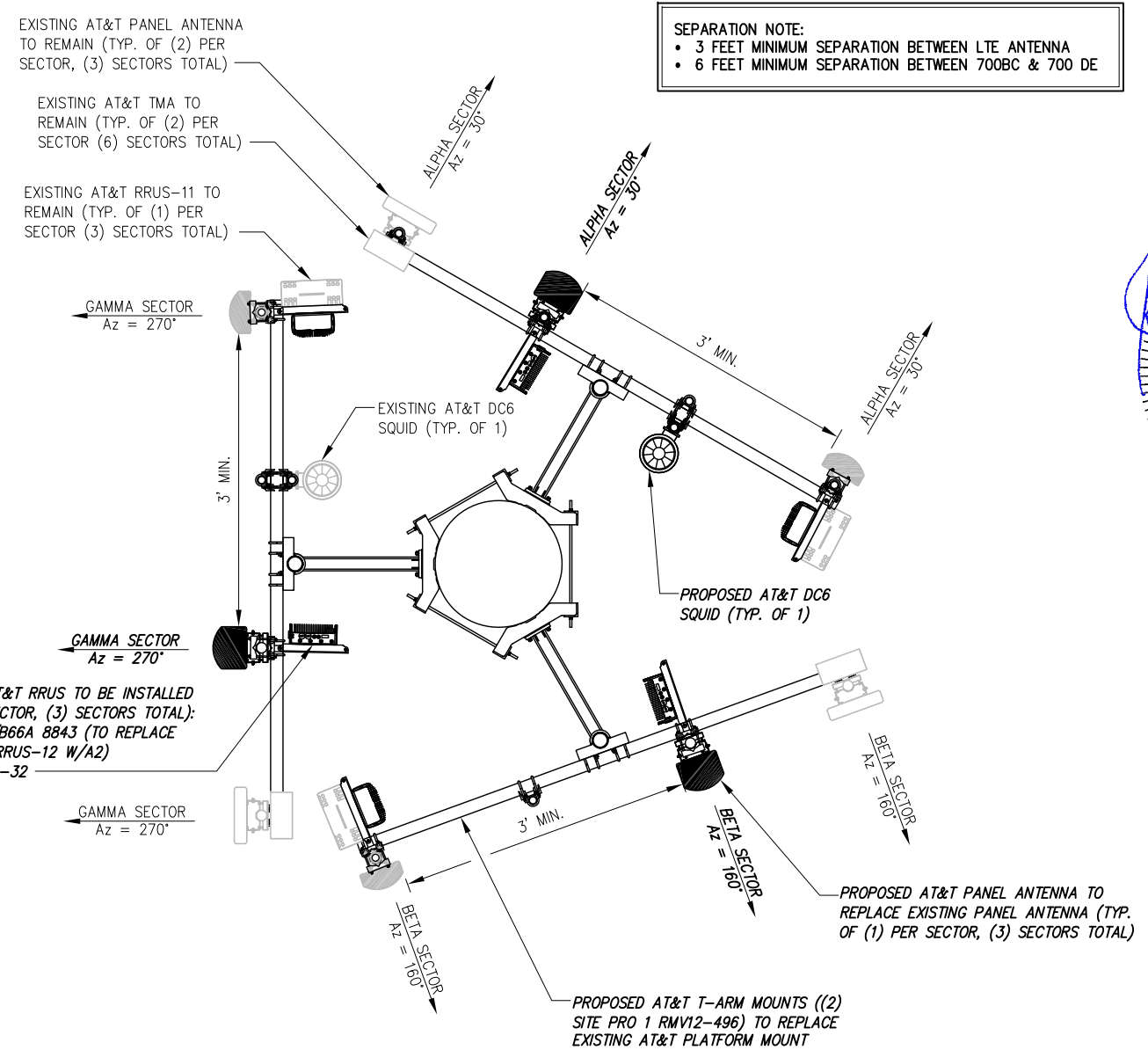
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- FOR ADDITIONAL INFORMATION PERTAINING TO THE ANTENNA MOUNT, SEE MOUNT ANALYSIS, COMPLETED BY INFINIGY, DATED 02/06/19. EXISTING AT&T PLATFORM MOUNT TO BE REPLACED WITH (2) RMV12-496 T-ARM MOUNTS.

**SEPARATION NOTE:**

- 3 FEET MINIMUM SEPARATION BETWEEN LTE ANTENNA
- 6 FEET MINIMUM SEPARATION BETWEEN 700BC & 700 DE

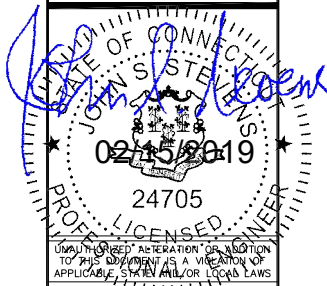


1 ANTENNA ORIENTATION PLAN (EXISTING)  
NOT TO SCALE



2 ANTENNA ORIENTATION PLAN (PROPOSED)  
NOT TO SCALE

**INFINIGY**  
INFINIGY ENGINEERING, PLLC  
1033 WaterMist Shaker Rd  
Albany, NY 12205  
Office # (518) 690-0790  
Fax # (518) 690-0793

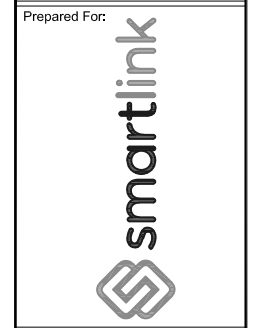


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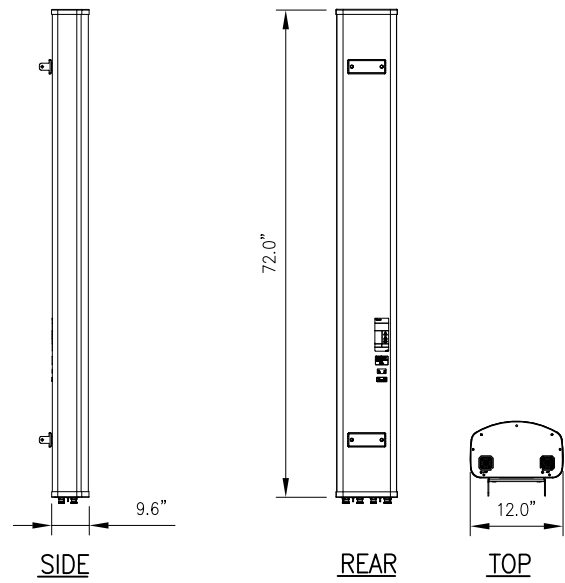
Project Title:  
**NEW BRITAIN FARMINGTON AVE.**  
CTL01028  
FA# 10065751  
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NEW BRITAIN, CT 06503



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Date: 02/15/19  
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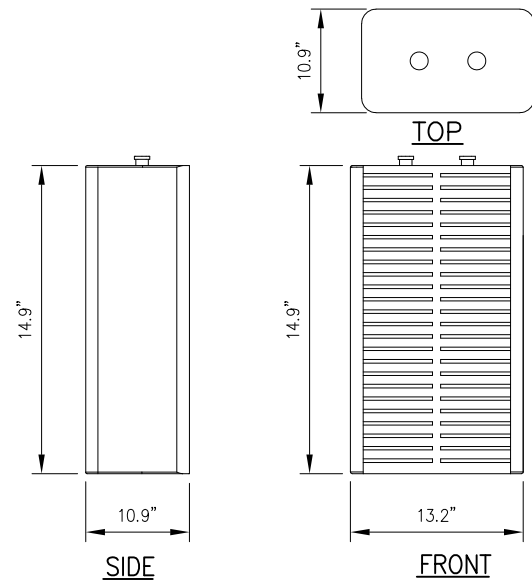
Drawing Title:  
**ANTENNA ORIENTATION PLAN**

Drawing Number:  
**C4**



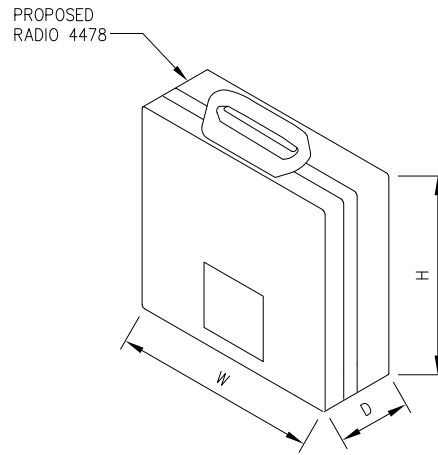
<b>QUINTEL MODEL NO.:</b>	<b>QS66512-2</b>
RADOME MATERIAL:	FIBERGLASS
RADOME COLOR:	LIGHT GRAY
DIMENSIONS, HxWxD:	(72.0"x12.0"x9.6")
WEIGHT, W/ PRE-MOUNTED BRACKETS:	111.0 LBS
CONNECTOR:	7-16 DIN FEMALE

**1** ANTENNA DETAIL  
NOT TO SCALE



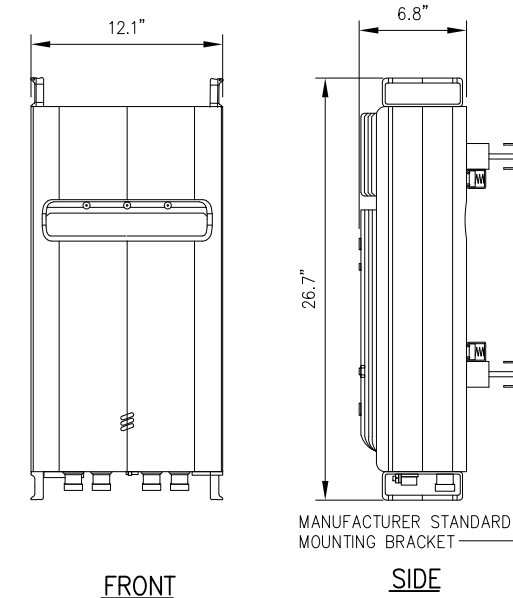
<b>RADIO B25/B66A 8834 SPECIFICATIONS</b>
• HxWxD, (INCHES) : 14.9"x13.2"x10.9"
• WEIGHT (LBS) : 72.0
• COLOR : GRAY

**2** ERICSSON RADIO B25/B66A 8843 DETAIL  
NOT TO SCALE



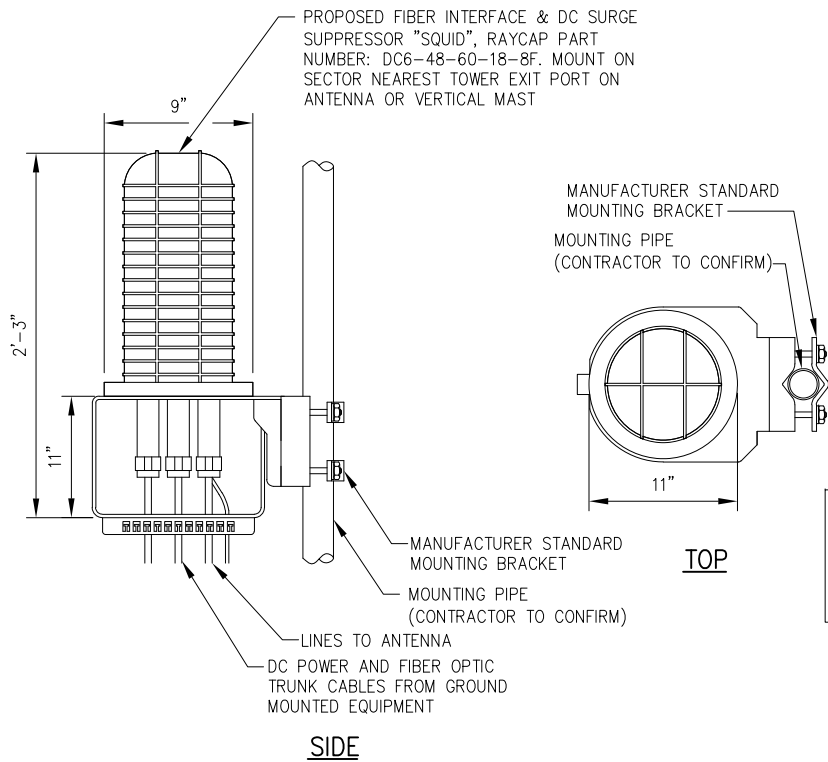
<b>RADIO 4478 SPECIFICATIONS</b>
• HxWxD, (INCHES) : 18.1"x13.4"x8.26"
• WEIGHT (LBS) : 59.5
• COLOR : GRAY

**3** ERICSSON RADIO 4478 DETAIL  
NOT TO SCALE

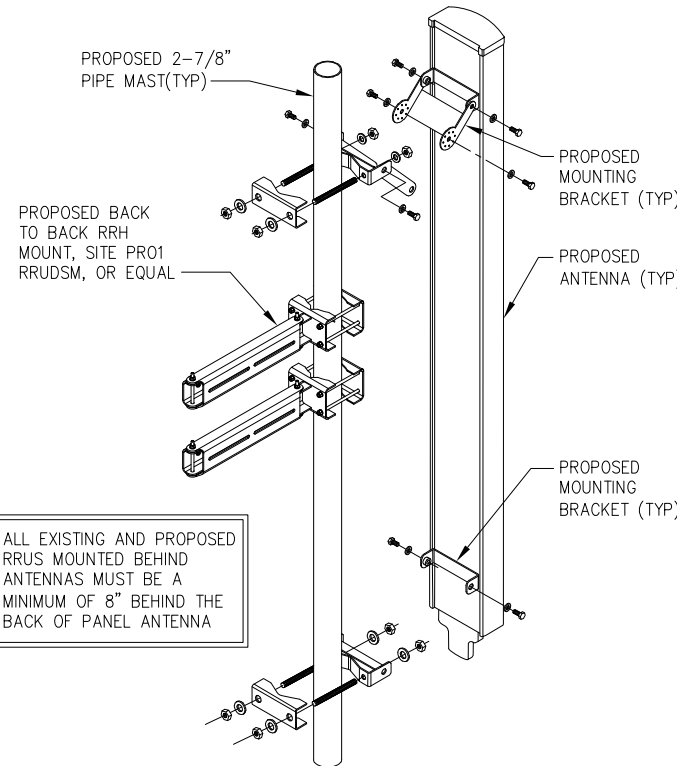


<b>RRUS-32 SPECIFICATIONS</b>
• HxWxD, (INCHES) : 26.7"x12.1"x6.8"
• WEIGHT (LBS) : 50.8
• COLOR : GRAY

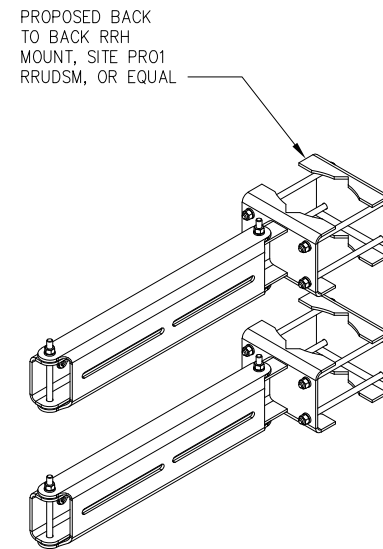
**4** ERICSSON RRUS-32 DETAIL  
NOT TO SCALE



**5** SQUID DETAIL  
NOT TO SCALE

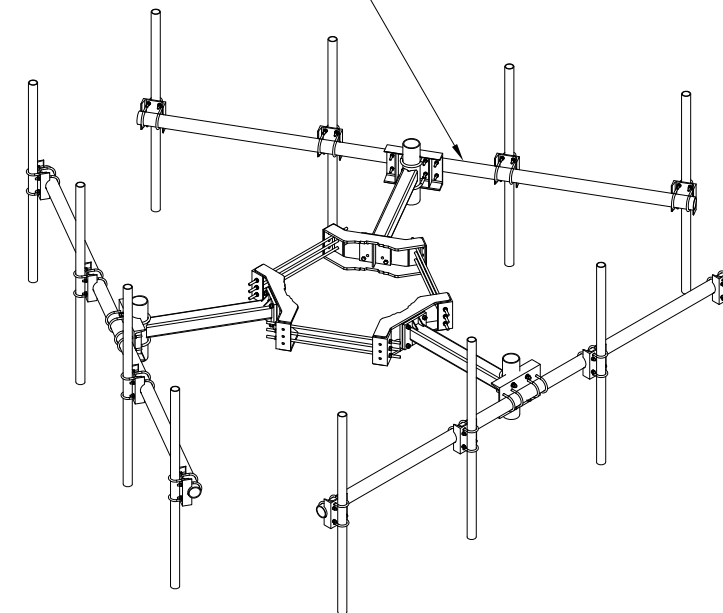


**6** MOUNTING DETAIL  
NOT TO SCALE

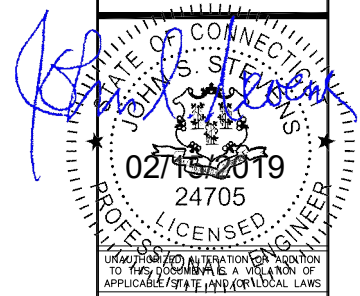


**7** BACK TO BACK RRH MOUNT DETAIL  
NOT TO SCALE

PROPOSED T-ARM MOUNT (SITE PR01 RMV12-496), \*CONTRACTOR TO INSTALL (2) STACKED T-ARM MOUNTS WITH 4' SEPARATION, INSTALL PER MANUFACTURER SPECS



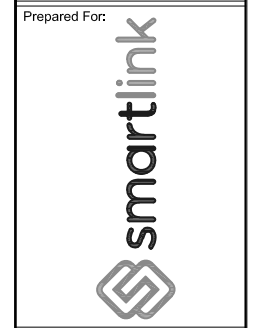
**8** RMV12-496 T-ARM MOUNT  
NOT TO SCALE



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Project Number: 499-006  
Project Title: NEW BRITAIN FARMINGTON AVE. CTL01028 FA# 10065751 723 FARMINGTON AVENUE NEW BRITAIN, CT 06503



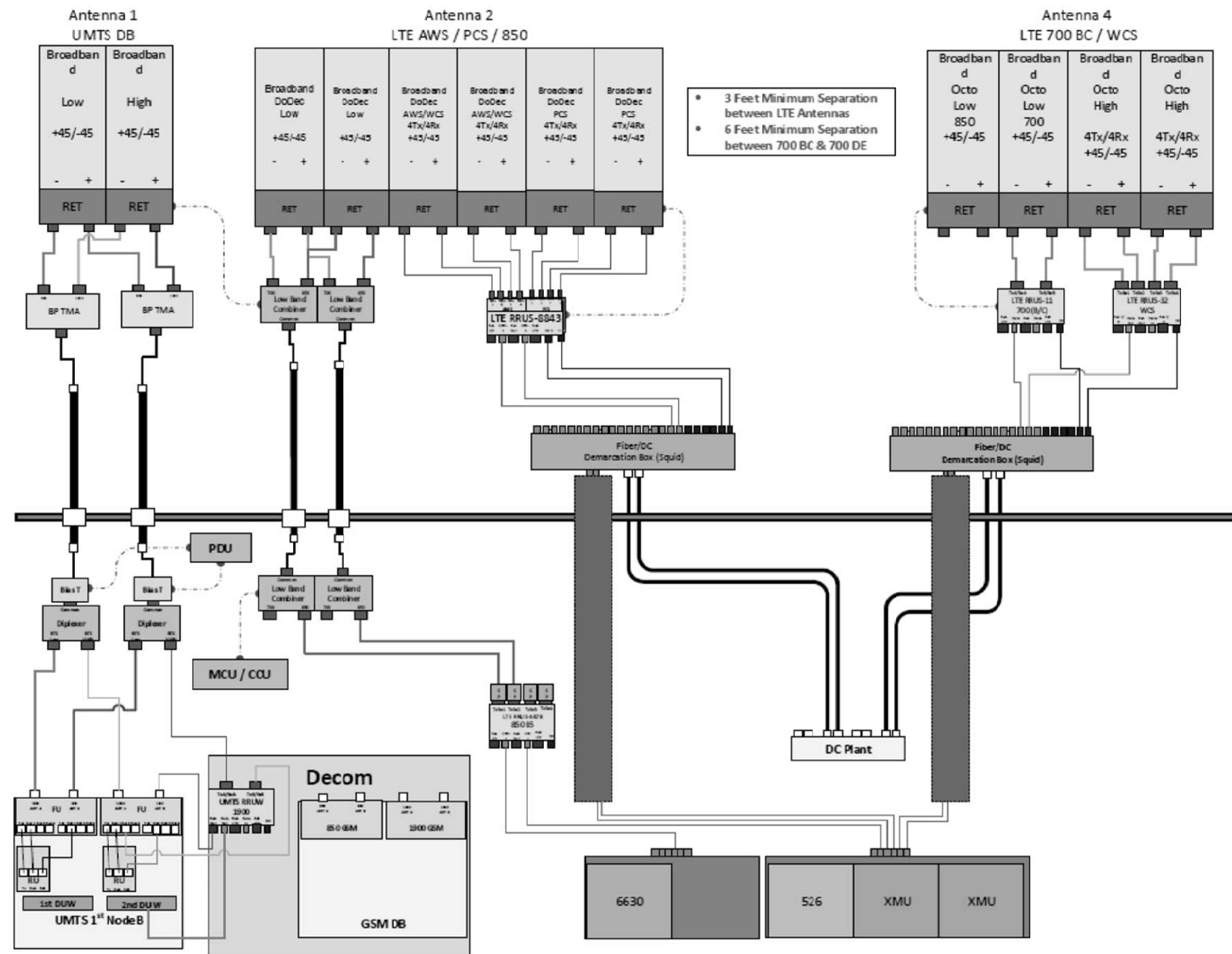
Drawing Scale: AS NOTED  
Date: 02/15/19  
Drawing Title: EQUIPMENT DETAILS

Drawing Number: C5

**INFINIGY**  
INFINIGY ENGINEERING, PLLC  
1033 WaterWet Shaker Rd  
Albany, NY 12205  
Office # (518) 690-0790  
Fax # (518) 690-0793







ALPHA/BETA/GAMMA

1 PLUMBING DIAGRAM (FINAL CONFIGURATION)  
 NOT TO SCALE



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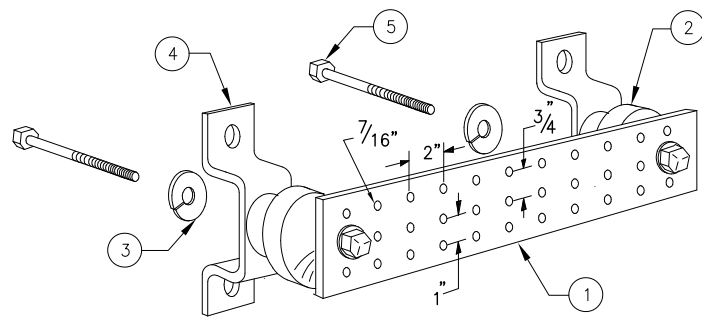
Drawn: BMM Date: 07/10/18  
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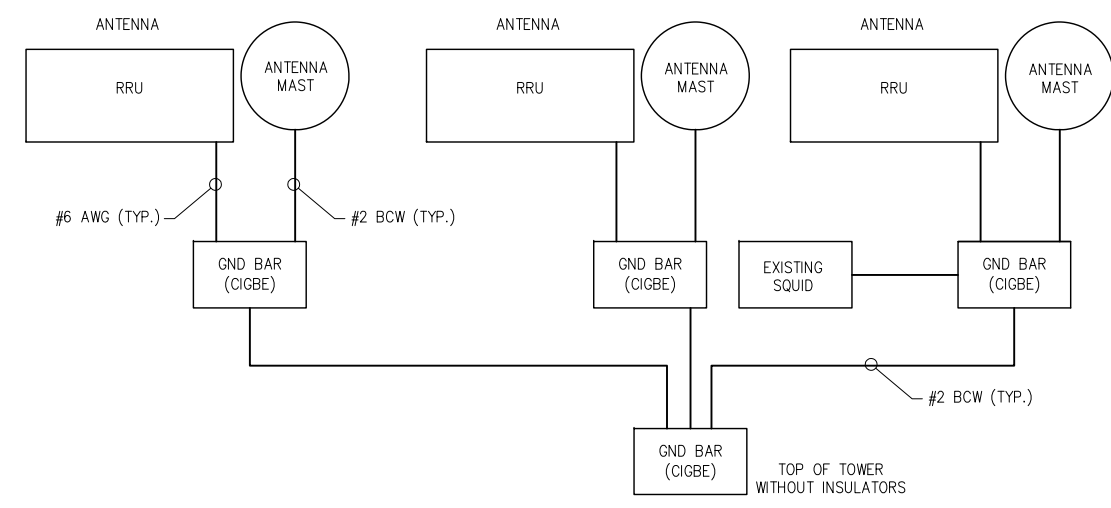
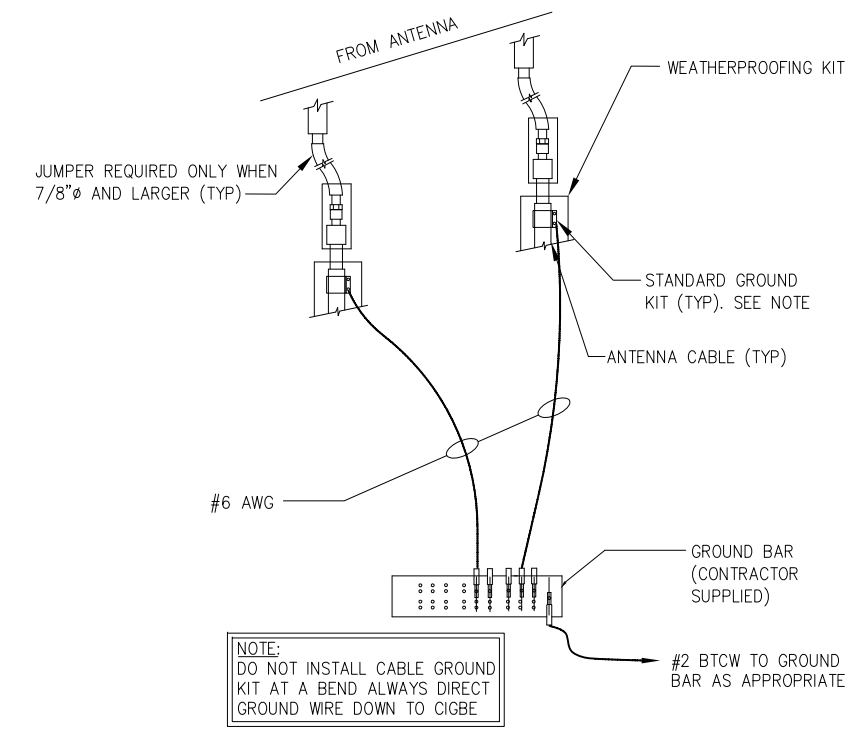
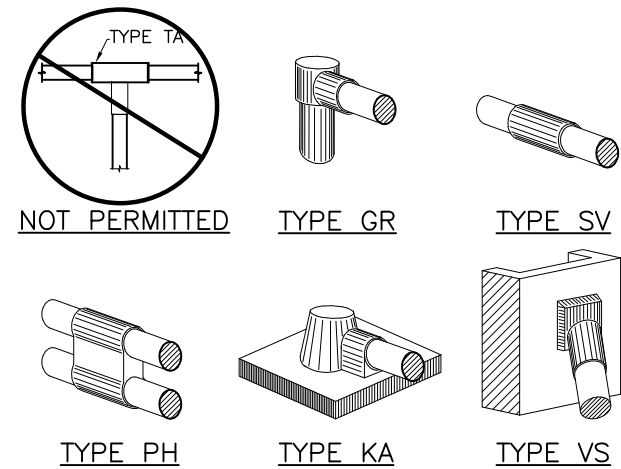
Drawing Scale: AS NOTED  
 Date: 02/15/19  
 Drawing Title: **PLUMBING DIAGRAM**  
 Drawing Number: **C6**

\*BASED ON LTE RFDS, V. 2.0, DATED 6/13/18

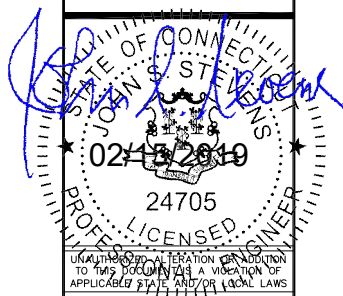


**LEGEND**

- 1 - SOLID TINNED COPPER GROUND BAR, 1/4"x 4"x 20" MIN., NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
- 2 - INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4
- 3 - 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
- 4 - WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056
- 5 - 5/8-11 X 1" H.H.C.S. BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1
- 6 - GROUND BAR SHALL BE SIZED TO ACCOMODATE ALL GROUNDING CONNECTIONS REQUIRED PLUS PROVIDE 50% SPARE CAPACITY
- 7 - GROUND BARS SHALL NEITHER BE FIELD FABRICATED NOR NEW HOLES DRILLED
- 8 - GROUND LUGS SHALL MATCH THE HOLE SPACING ON THE BAR
- 9 - HARDWARE DIAMETER SHALL BE MINIMUM 3/8"



**INFINIGY**  
 INFINIGY ENGINEERING, PLLC  
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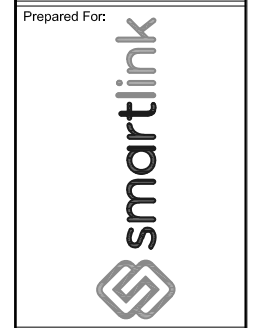


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 723 FARMINGTON AVENUE  
 NEW BRITAIN, CT 06503



Drawing Scale: AS NOTED  
 Date: 02/15/19

Drawing Title  
**GROUNDING DETAILS**

Drawing Number  
**C7**