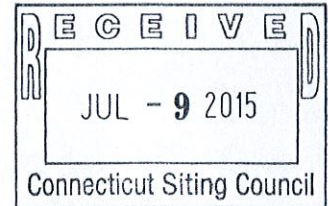


Phoenix Partnership

July 9, 2015

Ms. Melanie Bachman, Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051



ORIGINAL

***Re: Docket No. 421 Application of Phoenix Partnership, LLC,
For a Certificate of Environmental Compatibility and Public
Need for the Construction, Maintenance and Operation of a
Telecommunications Facility at 158 Edison Road
the Town of Trumbull, Connecticut
Interrogatory Responses***

Dear Attorney Bachman:

Please find enclosed fifteen (15) sets of the answers and attachments to the Connecticut Siting Council ("CSC") interrogatories dated June 17, 2015.

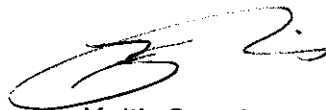
Interrogatory Responses

1. See attached equipment mounting details for Cellco, T-Mobile and the town of Trumbull ("Town").
2. See attached antenna specifications for Cellco and T-Mobile.
3. The dish antenna located above T-Mobile's equipment will be removed from the D&M plans and a new set of D&M plans will be provided to the CSC.
4. Consistent with CSC Findings of Fact number 82 in this docket, Phoenix will have the tower, antennas and mounts painted sky blue.
5. Consistent with CSC Findings of Fact number 60 in this docket, Phoenix will provide privacy slats in the compound fence.
6. See attached power density analysis that accounts for all users and equipment.

7. Upon approval of the Development and Management Plan, Phoenix will apply to the Town for a building permit. Upon receipt of the permit, construction will begin within ten (10) days. Construction of the tower and related facility will take approximately ninety (90) days. (Utility easements may take longer to obtain.) It is expected the Town's equipment will be installed at same time as the construction of the tower. T-Mobile will install its equipment when the tower is completed. Cellco must apply for a tower sharing approval with the CSC and it is expected they will do so in the near future. The existing tower will be removed from the site upon completion of the new tower and Town's equipment installation and cutover.

Please contact me if you have any questions.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Keith Coppins', with a large, stylized flourish at the end.

Keith Coppins
President

Enclosures

cc: Service List
Town of Trumbull
5866 Main St
Trumbull, CT 06611

T-Mobile Northeast, LLC
Julie D. Kohler, Esq
1115 Broad Street
Bridgeport, CT 06604

Citizens Against Trumbull Tower
Keith R. Ainsworth
PO Box 1694
New Haven, CT 06507

Phoenix Partnership
 PHOENIX PARTNERSHIP
 110 WASHINGTON AVENUE
 NORTH HAVEN, CT 06473

Hudson
 DESIGN GROUP
 MANHATTANVILLE, NY 10028
 N. AVENUE, N. 10302
 N. AVENUE, N. 10302
 TEL: 212 352-0300
 FAX: 212 352-0300

REV. #	DATE	DESCRIPTION
0	08/24/18	ISSUED FOR REVIEW

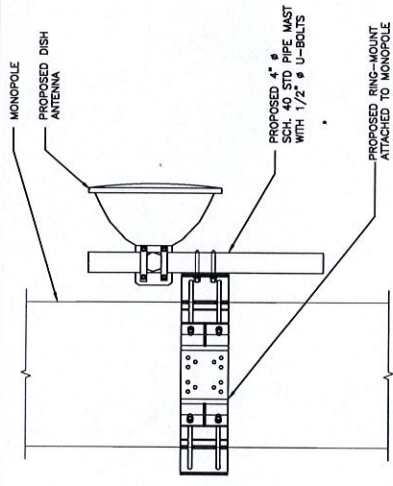
PROJECT NO. CT5051
 SHEET NO. 1 OF 3
 DATE 08/24/18

CT5051
POLICE STATION
EDISON ROAD

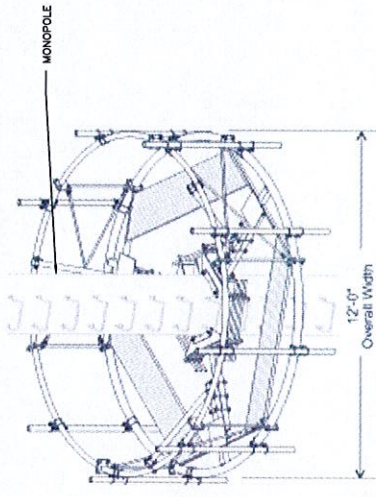
SITE ADDRESS
 138 EDISON ROAD
 TRUMBULL, CT 06611

SHEET TITLE
ANTENNA
MOUNTING DETAILS

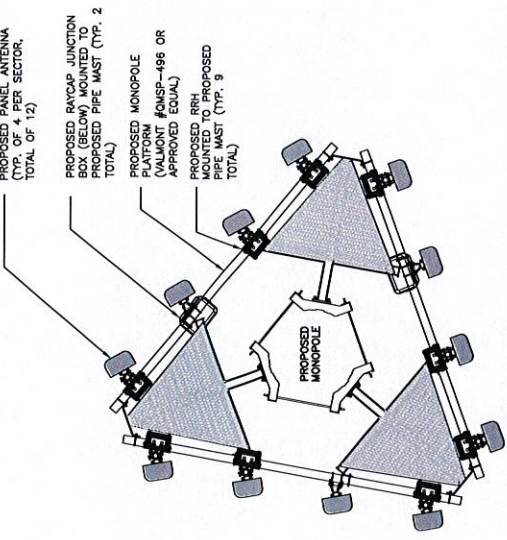
SHEET NO.
SK-1



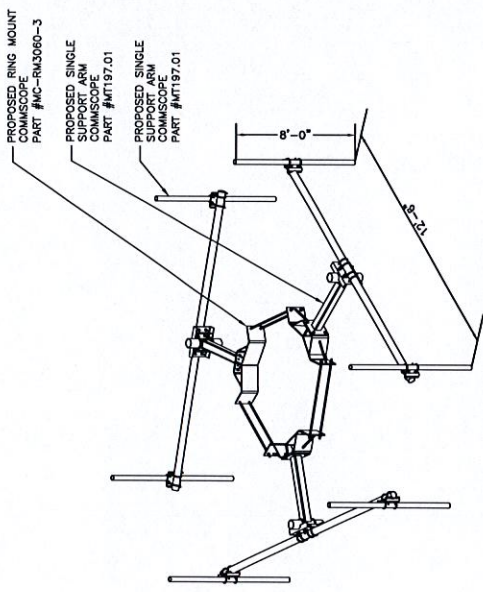
TOWN EQUIPMENT
 VALMONT PART NUMBER: RM10303
DISH ANTENNA MOUNTING DETAIL 1
 SCALE: N.T.S.



TOWN EQUIPMENT
 VALMONT PART NUMBER: 852238
12' CIRCULAR ANTENNA PLATFORM DETAIL 2
 SCALE: N.T.S.



CELCO PARTNERSHIP 4/7/16 VERIZON WIRELESS EQUIPMENT
 VALMONT PART NUMBER: QMSP-498
ANTENNA, RRH, & SURGE SUPPRESSOR MOUNTING DETAIL 3
 SCALE: N.T.S.



I-ARM FRAME COMMSCOPE # MC-K12L-9-96
I-MOBILE EQUIPMENT
ANTENNA AND TMA MOUNTING DETAIL 4
 SCALE: N.T.S.

Network Modernization RFDS v3.0

T

Site ID CTFF481B	Latitude 41.23435
Site Name Police Station/Edison Rd	Longitude -73.21876
Address 158 Edison Rd	Site Type Tower
Market Connecticut	Site Class Monopole
	Landlord Town of Trumbull

Configuration

2C

Approvals	
Market RF	
Market Development	
RFDS Revision	0
RFDS Final	

Date

Site Information

Existing Configuration					Proposed Configuration			
1	2	3	4		1	2	3	4
				Cabinet #	GSM/UMTS/LTE			
				Technology	3106			
				Cabinet type	CBU			
				DUW30	2			
				DUL20	1			
				DUG20	1			
				DUS41				
				RBS6601	2			
				dTRU/TRX				
				RU22 B4	6			
				RUS01 B2				
				RUS01 B4				

- Relocate cabinet
- Add cabinet
- Swap cabinet
- Remove cabinet
- Make cabinet dark

Comments
 Install 3106 UMTS cabinet equipped with 2 DUW30. Add DUL20 and DUG20 and install 6 RUS01 B4 radios in the 3106 cabinet. Install power upgrade kit 6131. Install 3 E// TMA.

ALPHA - Scope of Work

<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Add new mount <input type="checkbox"/> Relocate antenna <input checked="" type="checkbox"/> Add antenna <input type="checkbox"/> Swap antenna <input type="checkbox"/> Remove antenna <input checked="" type="checkbox"/> Add TMA <input type="checkbox"/> Swap TMA <input type="checkbox"/> Remove TMA 	<ul style="list-style-type: none"> <input type="checkbox"/> Add RRU <input type="checkbox"/> Swap existing RRU <input type="checkbox"/> Remove RRU <input type="checkbox"/> Add coax cables <input checked="" type="checkbox"/> Add fiber cables <input checked="" type="checkbox"/> Add hybrid combiner <input type="checkbox"/> Add filter combiner 	New build.
--	--	------------

BETA - Scope of Work

<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Add new mount <input type="checkbox"/> Relocate antenna <input checked="" type="checkbox"/> Add antenna <input type="checkbox"/> Swap antenna <input type="checkbox"/> Remove antenna <input checked="" type="checkbox"/> Add TMA <input type="checkbox"/> Swap TMA <input type="checkbox"/> Remove TMA 	<ul style="list-style-type: none"> <input type="checkbox"/> Add RRU <input type="checkbox"/> Swap existing RRU <input type="checkbox"/> Remove RRU <input type="checkbox"/> Add coax cables <input checked="" type="checkbox"/> Add fiber cables <input checked="" type="checkbox"/> Add hybrid combiner <input type="checkbox"/> Add filter combiner 	New build.
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GAMMA - Scope of Work

<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Add new mount <input type="checkbox"/> Relocate antenna <input checked="" type="checkbox"/> Add antenna <input type="checkbox"/> Swap antenna <input type="checkbox"/> Remove antenna <input checked="" type="checkbox"/> Add TMA <input type="checkbox"/> Swap TMA <input type="checkbox"/> Remove TMA 	<ul style="list-style-type: none"> <input type="checkbox"/> Add RRU <input type="checkbox"/> Swap existing RRU <input type="checkbox"/> Remove RRU <input type="checkbox"/> Add coax cables <input checked="" type="checkbox"/> Add fiber cables <input checked="" type="checkbox"/> Add hybrid combiner <input type="checkbox"/> Add filter combiner 	New build.
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DELTA - Scope of Work

<ul style="list-style-type: none"> <input type="checkbox"/> Add new mount <input type="checkbox"/> Relocate antenna <input type="checkbox"/> Add antenna <input type="checkbox"/> Swap antenna <input type="checkbox"/> Remove antenna <input type="checkbox"/> Add TMA <input type="checkbox"/> Swap TMA <input type="checkbox"/> Remove TMA 	<ul style="list-style-type: none"> <input type="checkbox"/> Add RRU <input type="checkbox"/> Swap existing RRU <input type="checkbox"/> Remove RRU <input type="checkbox"/> Add coax cables <input type="checkbox"/> Add fiber cables <input type="checkbox"/> Add hybrid combiner <input type="checkbox"/> Add filter combiner 	New build.
---	--	------------

Network Modernization RFDS v3.0

T

Site ID CTFF481B	Latitude 41.23435
Site Name Police Station/Edison Rd	Longitude -73.21876
Address 158 Edison Rd	Site Type Tower
Market Connecticut	Site Class Monopole
	Landlord Town of Trumbull

Configuration

2C

Approvals	
Market RF	
Market Development	
RFDS Revision	0
RFDS Final	
Date	

ALPHA (view from behind)

Existing Configuration				Mount	Proposed Configuration				
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Technology	LTE	GSM/UMTS	UMTS		
				Band	B4	B2	B4		
				Active/Passive	A	A	P		
				Ant. Type	Quad pole	Quad pole			
				Ant. Model	AIR21 B4A/B2P	AIR21 B2A/B4P			
				Ant. Vendor	Ericsson	Ericsson			
				Ant. Height	120	120			
				Azimuth	60	60			
				RET deployed	Yes	Yes	Yes		
				E-Tilt	2	2	2		
				M-Tilt	0	0	0		
				TMA #		1			
				TMA Type		dd B4			
				RRU #					
				RRU Type					
				Used Coax #		2			
				Coax Type		1-5/8"			
				Coax Length (ft)		130			
				Fiber (CPR) #	1	2			
				Splitter #					
				Combiner #					
				Combiner Type					

- | | |
|--|--|
| <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Add new mount <input type="checkbox"/> Relocate antenna <input checked="" type="checkbox"/> Add antenna <input type="checkbox"/> Swap antenna <input type="checkbox"/> Remove antenna <input checked="" type="checkbox"/> Add TMA <input type="checkbox"/> Swap TMA <input type="checkbox"/> Remove TMA | <ul style="list-style-type: none"> <input type="checkbox"/> Add RRU <input type="checkbox"/> Swap existing RRU <input type="checkbox"/> Remove RRU <input type="checkbox"/> Unroute coax cables <input checked="" type="checkbox"/> Add coax cables <input checked="" type="checkbox"/> Add fiber cables <input type="checkbox"/> Add hybrid combiner <input type="checkbox"/> Add filter combiner |
|--|--|

Scope of work
New build.

BETA (view from behind)

Existing Configuration				Mount	Proposed Configuration				
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Technology	LTE	SM/UMTS	UMTS		
				Band	B4	B2	B4		
				Active/Passive	A	A	P		
				Ant. Type	Quad pole	Quad pole			
				Ant. Model	AIR21 B4A/B2P	AIR21 B4A/B2P			
				Ant. Vendor	Ericsson	Ericsson			
				Ant. Height	120	120			
				Azimuth	150	150			
				RET deployed	Yes	Yes	Yes		
				E-Tilt	2	2	2		
				M-Tilt	0	0	0		
				TMA #		1			
				TMA Type		dd B4			
				RRU #					
				RRU Type					
				Used Coax #		2			
				Coax Type		1-5/8"			
				Coax Length (ft)		130			
				Fiber (CPR) #	1	2			
				Splitter #					
				Combiner #					
				Combiner Type					

- | | |
|--|--|
| <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Add new mount <input type="checkbox"/> Relocate antenna <input checked="" type="checkbox"/> Add antenna <input type="checkbox"/> Swap antenna <input type="checkbox"/> Remove antenna <input checked="" type="checkbox"/> Add TMA <input type="checkbox"/> Swap TMA <input type="checkbox"/> Remove TMA | <ul style="list-style-type: none"> <input type="checkbox"/> Add RRU <input type="checkbox"/> Swap existing RRU <input type="checkbox"/> Remove RRU <input type="checkbox"/> Unroute coax cables <input checked="" type="checkbox"/> Add coax cables <input checked="" type="checkbox"/> Add fiber cables <input type="checkbox"/> Add hybrid combiner <input type="checkbox"/> Add filter combiner |
|--|--|

Scope of work
New build.

Network Modernization RFDS v3.0

T

Site ID CTFF481B	Latitude 41.23435
Site Name Police Station/Edison Rd	Longitude -73.21876
Address 158 Edison Rd	Site Type Tower
Market Connecticut	Site Class Monopole
	Landlord Town of Trumbull

Configuration

2C

Approvals	
Market RF	
Market Development	
RFDS Revision	0
RFDS Final	
Date	

GAMMA (view from behind)

Existing Configuration					Proposed Configuration			
				Technology	LTE	GSM/UMTS	UMTS	
				Band	B4	B2	B4	
				Active/Passive	A	A	P	
				Ant. Type	Quad pole	Quad pole		
				Ant. Model	AIR21 B4A/B2P	AIR21 B2A/B4P		
				Ant. Vendor	Ericsson	Ericsson		
				Ant. Height	120	120		
				Azimuth	340	340		
				RET deployed	Yes	Yes	Yes	
				E-Tilt	2	2	2	
				M-Tilt	0	0	0	
				TMA #			1	
				TMA Type			dd B4	
				RRU #				
				RRU Type				
				Used Coax #			2	
				Coax Type			1-5/8"	
				Coax Length (ft)			130	
				Fiber (CPR1) #	1		2	
				Splitter #				
				Combiner #				
				Combiner Type				

- | | |
|--|--|
| <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Add new mount <input type="checkbox"/> Relocate antenna <input checked="" type="checkbox"/> Add antenna <input type="checkbox"/> Swap antenna <input type="checkbox"/> Remove antenna <input checked="" type="checkbox"/> Add TMA <input type="checkbox"/> Swap TMA <input type="checkbox"/> Remove TMA | <ul style="list-style-type: none"> <input type="checkbox"/> Add RRU <input type="checkbox"/> Swap existing RRU <input type="checkbox"/> Remove RRU <input type="checkbox"/> Consolidate coax cables <input checked="" type="checkbox"/> Add coax cables <input checked="" type="checkbox"/> Add fiber cables <input type="checkbox"/> Add hybrid combiner <input type="checkbox"/> Add filter combiner |
|--|--|

Scope of work

New build.

DELTA (view from behind)

Existing Configuration					Proposed Configuration			
				Technology				
				Band				
				Active/Passive				
				Ant. Type				
				Ant. Model				
				Ant. Vendor				
				Ant. Height				
				Azimuth				
				RET deployed				
				E-Tilt				
				M-Tilt				
				TMA #				
				TMA Type				
				RRU #				
				RRU Type				
				Used Coax #				
				Coax Type				
				Coax Length (ft)				
				Fiber (CPR1) #				
				Splitter #				
				Combiner #				
				Combiner Type				

- | | |
|---|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> Add new mount <input type="checkbox"/> Relocate antenna <input type="checkbox"/> Add antenna <input type="checkbox"/> Swap antenna <input type="checkbox"/> Remove antenna <input type="checkbox"/> Add TMA <input type="checkbox"/> Swap TMA <input type="checkbox"/> Remove TMA | <ul style="list-style-type: none"> <input type="checkbox"/> Add RRU <input type="checkbox"/> Swap existing RRU <input type="checkbox"/> Remove RRU <input type="checkbox"/> Consolidate coax cables <input type="checkbox"/> Add coax cables <input type="checkbox"/> Add fiber cables <input type="checkbox"/> Add hybrid combiner <input type="checkbox"/> Add filter combiner |
|---|--|

Scope of work

Site Name	VERIZON TRUMBULL S 3, CT			Site #	5-0504				
Latitude	41-14-03.88 N			Longitude	73-13-07.47 W				
Trumbull Fire Dept (Updated 700 RRH's to 60W - 06/29/15)				GEL (Feet)	331				
700 MHz LTE Site Info				ALPHA		BETA		GAMMA	
EQUIPMENT TYPE	ALU 700 MHz RRH			ALU 700 MHz RRH			ALU 700 MHz RRH		
ANTENNA TYPE	LNX-6514DS-A1M			LNX-6514DS-A1M			LNX-6514DS-A1M		
QUANTITY PER FACE	1			1			1		
ORIENTATION	60			230			320		
DOWN TILT (ELEC + MECH)	0 Elec + 2 Mech			0 Elec + 2 Mech			0 Elec + 2 Mech		
RAD CTR (FT AGL)	110			110			110		
TOWER MOUNTED AMPS (QTY)	N/A			N/A			N/A		
DIPLEXER - QTY/MODEL									
RRH - QTY/MODEL	1	ALU RRH_2X60-700U		1	ALU RRH_2X60-700U		1	ALU RRH_2X60-700U	
SECTOR DISTRIBUTION BOX									
MAIN DISTRIBUTION BOX									
850 MHz Cellular Site Info				ALPHA		BETA		GAMMA	
EQUIPMENT TYPE	N/A			N/A			N/A		
ANTENNA TYPE	LNX-6514DS-A1M			LNX-6514DS-A1M			LNX-6514DS-A1M		
QUANTITY PER FACE	1			1			1		
ORIENTATION	60			230			320		
DOWN TILT (ELEC + MECH)	0 Elec + 2 Mech			0 Elec + 2 Mech			0 Elec + 2 Mech		
RAD CTR (FT AGL)	110			110			110		
TOWER MOUNTED AMPS (QTY)	N/A			N/A			N/A		
DIPLEXER - QTY/MODEL									
1900 MHz PCS Site Info				ALPHA		BETA		GAMMA	
EQUIPMENT TYPE	ALU 1900 MHz RRH			ALU 1900 MHz RRH			ALU 1900 MHz RRH		
ANTENNA TYPE	HBXX-6517DS-A1M			HBXX-6517DS-A1M			HBXX-6517DS-A1M		
QUANTITY PER FACE	1			1			1		
ORIENTATION	60			230			320		
DOWN TILT (ELEC + MECH)	0 Elec + 2 Mech			0 Elec + 2 Mech			0 Elec + 2 Mech		
RAD CTR (FT AGL)	110			110			110		
TOWER MOUNTED AMPS (QTY)	N/A			N/A			N/A		
DIPLEXER - QTY/MODEL									
RRH - QTY/MODEL	1	ALU RRH_2X60-PCS		1	ALU RRH_2X60-PCS		1	ALU RRH_2X60-PCS	
SECTOR DISTRIBUTION BOX									
MAIN DISTRIBUTION BOX	1			DB-T1-6Z-8AB-0Z					
2100 MHz LTE Site Info				ALPHA		BETA		GAMMA	
EQUIPMENT TYPE	ALU 2100 MHz RRH			ALU 2100 MHz RRH			ALU 2100 MHz RRH		
ANTENNA TYPE	HBXX-6517DS-A1M			HBXX-6517DS-A1M			HBXX-6517DS-A1M		
QUANTITY PER FACE	1			1			1		
ORIENTATION	60			230			320		
DOWN TILT (ELEC + MECH)	0 Elec + 2 Mech			0 Elec + 2 Mech			0 Elec + 2 Mech		
RAD CTR (FT AGL)	110			110			110		
TOWER MOUNTED AMPS (QTY)	N/A			N/A			N/A		
DIPLEXER - QTY/MODEL									
RRH - QTY/MODEL	1	ALU RRH_2X60-AWS		1	ALU RRH_2X60-AWS		1	ALU RRH_2X60-AWS	
SECTOR DISTRIBUTION BOX									
MAIN DISTRIBUTION BOX	1			DB-T1-6Z-8AB-0Z					

For Leasing and Zoning Only

For Leasing and Zoning Only

Coax Cable Ordering					
MAINLINE SIZE	1 5/8"	TOTAL # OF MAIN LINES	0	COAX LINE MODEL #	
JUMPER SIZE	1/2"	TOTAL # OF TOP JUMPERS	12	TOP JUMPER MODEL #	
Fiber Cable Ordering					
FIBER LINE SIZE	1 5/8"	TOTAL # OF FIBER LINES	2	FIBER LINE MODEL #	HB158-1-08U8-S8J18
JUMPER SIZE	5/8"	TOTAL # OF TOP JUMPERS	12	TOP JUMPER MODEL #	HB058-1-08U1-S1J

TX / RX FREQUENCIES								TX POWER OUTPUT							
Cellular A-Band				PCS F / AWS-Band				700 Mhz C - Block				Cellular (Watts)			
TX - 869-880,890-891.5 MHz				TX - 1970-1975 / 2145-2155				TX - 746-757				PCS (Watts)			
RX - 824-835,845-846.5 MHz				RX - 1890-1895 / 1745-1755				RX - 776-787				700 MHz / 2100 MHz (Watts)			
ALPHA				BETA				GAMMA							
Ant.	Freq.	Func.	Color Code	Ant.	Freq.	Func.	Color	Ant.	Freq.	Func.	Color Code				
A1-A	800	Tx1/Rxo	RED	A5-A	800	Tx2/Rxo	BLUE	A9-A	800	Tx3/Rxo	GREEN				
A1-B	1900	Tx1/Rxo	RED/ WHITE	A5-B	1900	Tx2/Rxo	BLUE/ WHITE	A9-B	1900	Tx3/Rxo	GREEN/WHITE				
A2	700	Tx1/Rxo	RED/ ORANGE	A6	700	Tx2/Rxo	BLUE/ ORANGE	A10	700	Tx3/Rxo	GREEN/ORANGE				
A3	700	Tx4/Rx1	RED/RED/ ORANGE	A7	700	Tx5/Rx1	BLUE/BLUE/ ORANGE	A11	700	Tx6/Rx1	GREEN/GREEN/ ORANGE				
A4-B	1900	Tx4/Rx1	RED/RED/ WHITE	A8-B	1900	Tx5/Rx1	BLUE/BLUE/ WHITE	A12-B	1900	Tx6/Rx1	GREEN/GREEN/ WHITE				
A4-A	800	Tx4/Rx1	RED/RED	A8-A	800	Tx5/Rx1	BLUE/BLUE	A12-A	800	Tx6/Rx1	GREEN/GREEN				
F1-A	1700	Tx/Rx	RED/ BROWN	F1-B	1700	Tx/Rx	BLUE/BROWN	F1-C	1700	Tx/Rx	GREEN/BROWN				
F1-D	1700	Tx/Rx	RED/RED/ BROWN	F1-E	1700	Tx/Rx	BLUE/BLUE/BROWN	F1-F	1700	Tx/Rx	GREEN/GREEN/BROWN				
RF ENGINEER				RF MANAGER				RF INITIALS				DATE			
Prepared By: Ryan Ulanday				Robert Hesselbach				RU				10/21/14			

Daniel L. Goulet
C Squared Systems, LLC
65 Dartmouth Drive
Auburn, NH 03032
603-644-2800
Dan.Goulet@csquaredsystems.com



July 7, 2015

Connecticut Siting Council

Subject: CT5051 Police Station – 158 Edison Road, Trumbull, CT

Dear Connecticut Siting Council:

C Squared Systems has been retained by Phoenix Partnership to investigate RF Power Density levels for the T-Mobile, Verizon Wireless and Trumbull Police Department antenna arrays to be installed on the proposed monopole tower to be located at 158 Edison Road in Trumbull, CT. The Trumbull Police Department will be relocating their antennas from the existing 100' lattice tower to the top of the proposed 130' monopole.

Calculations were done in accordance with FCC OET Bulletin 65. These worst-case calculations assume that all transmitters are simultaneously operating at full power and that there is 0 dB of cable loss. The calculation point is 6 feet above ground level to model the RF power density at the head of a person standing at the base of the tower.

Due to the directional nature of the proposed antennas, the majority of the RF power is focused out towards the horizon. As a result, there will be less RF power directed below the antennas relative to the horizon, and consequently lower power density levels around the base of the tower. Please refer to the Attachments for the vertical patterns of the proposed T-Mobile and Verizon antennas. The calculated results for T-Mobile and Verizon Wireless shown below include a nominal 10 dB off-beam pattern loss to account for the lower relative gain directly below the panel antennas.¹

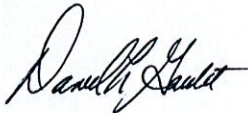
¹ No pattern adjustment has been taken for the Police Department omnidirectional or dipole antennas.

Location	Carrier	Vertical Distance to Antenna (Ft.)	Operating Frequency (MHz)	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Power Density (mw/cm ²)	Limit	%MPE
Ground Level	Trumbull PD	141	850	11	35	0.0076	0.5667	1.34%
	Trumbull PD	138.7	857	1	280	0.0057	0.5713	1.00%
	Trumbull PD	138.5	155.8	1	70	0.0014	0.2000	0.72%
	Trumbull PD	138.5	154.05	1	50	0.0010	0.2000	0.51%
	Trumbull PD	135	154.1	1	25	0.0005	0.2000	0.27%
	Trumbull PD	135	45	1	50	0.0011	0.2000	0.54%
	Trumbull PD	135	33	3	110	0.0071	0.2000	3.57%
	Trumbull PD	135	39	1	100	0.0022	0.2000	1.08%
	T-Mobile	120	734	1	1028	0.0028	0.4893	0.58%
	T-Mobile	120	1930	4	1265	0.0140	1.0000	1.40%
	T-Mobile	120	2100	4	1254	0.0139	1.0000	1.39%
	Verizon	110	1970	1	1191	0.0396	1.0000	3.96%
	Verizon	110	869	9	352	0.0105	0.5793	1.82%
	Verizon	110	2145	1	1750	0.0058	1.0000	0.58%
Verizon	110	746	1	705	0.0023	0.4973	0.47%	
Total								9.73%

Table 1: Carrier Information²

Summary: Under worst-case assumptions, RF Power Density levels for the proposed antenna arrays will not exceed 9.73% of the FCC MPE limit for General Public/Uncontrolled Environments.

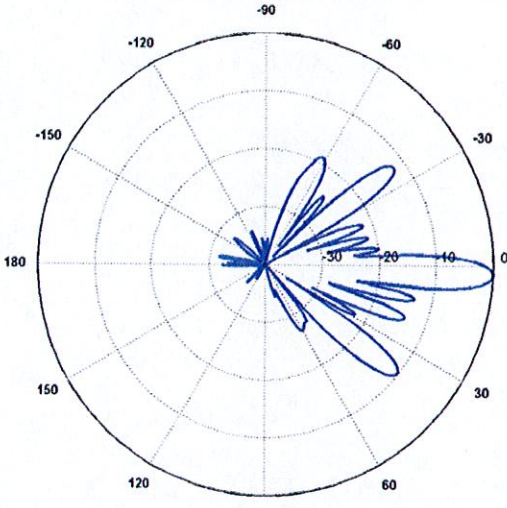
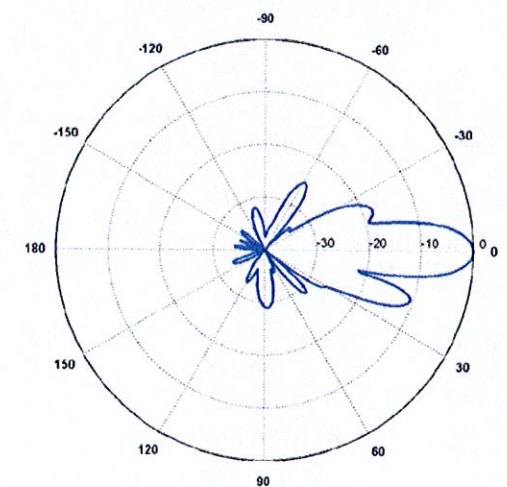
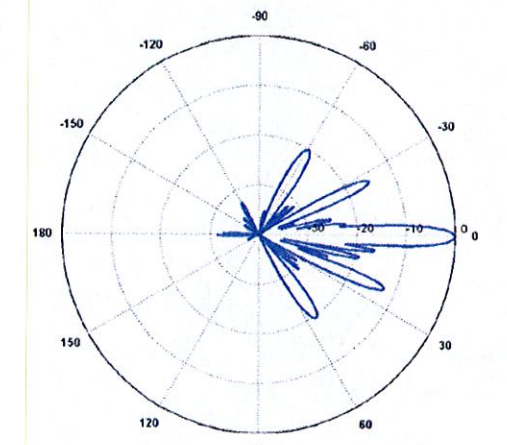
Sincerely,



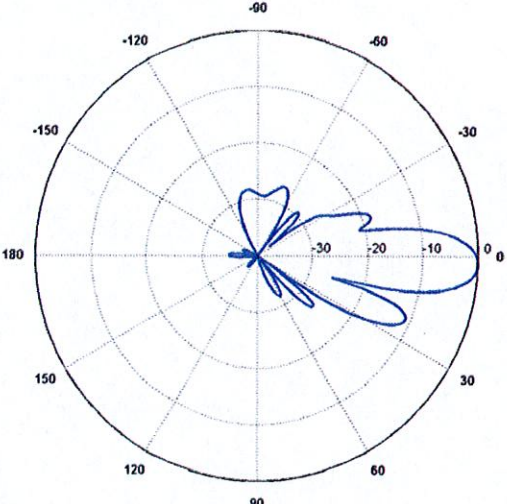
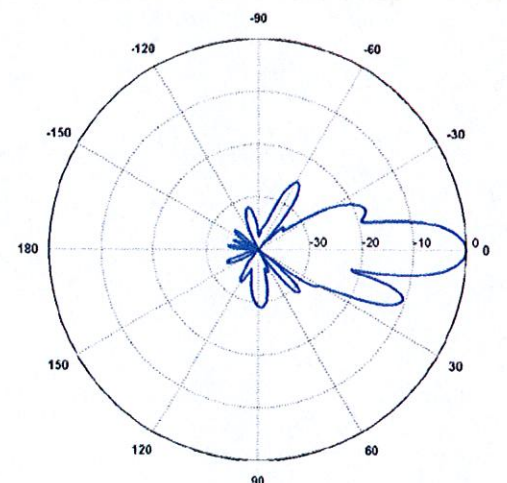
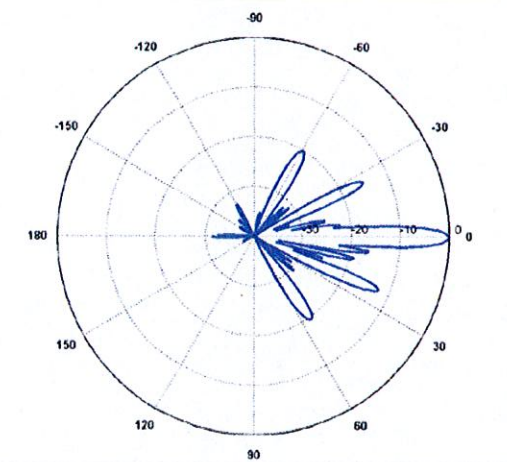
Daniel L. Goulet
C Squared Systems, LLC

² Please note that %MPE values listed are rounded to two decimal points. The total %MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

Attachment A: T-Mobile's Antenna Data Sheets and Electrical Patterns

<p>1900 MHz</p> <p>Manufacturer: Ericsson Model #: AIR21-B4A-B2P Frequency Band: 1930-1990 MHz Gain: 15.4 dBd Vertical Beamwidth: 7.0° Horizontal Beamwidth: 65° Polarization: Dual Pol ± 45° Size L x W x D: 4.7" x 12.0" x 7.8"</p>	
<p>2100 MHz</p> <p>Manufacturer: Ericsson Model #: AIR21-B2A-B4P Frequency Band: 2110-2155 MHz Gain: 15.4 dBd Vertical Beamwidth: 7.0° Horizontal Beamwidth: 65° Polarization: Dual Pol ± 45° Size L x W x D: 92.4" x 14.8" x 7.4"</p>	
<p>750 MHz</p> <p>Manufacturer: Commscope Model #: HBXX-6517DS-A1M Frequency Band: 698 - 806 Gain: 13.6 dBd Vertical Beamwidth: 12.5° Horizontal Beamwidth: 65° Polarization: Dual Pol ± 45° Size L x W x D: 72.7" x 11.9" x 7.1"</p>	

Attachment B: Verizon's Antenna Data Sheets and Electrical Patterns

<p>750 MHz</p> <p>Manufacturer: Commscope Model #: LNX-6514DS-A1M Frequency Band: 698-806 MHz Gain: 13.6 dBd Vertical Beamwidth: 12.5° Horizontal Beamwidth: 65° Polarization: Dual Pol ± 45° Size L x W x D: 72.7" x 11.9" x 7.1"</p>	
<p>850 MHz</p> <p>Manufacturer: CommScope Model #: LNX-6514DS-A1M Frequency Band: 806-896 MHz Gain: 14.2 dBd Vertical Beamwidth: 11.2° Horizontal Beamwidth: 65° Polarization: Dual Pol ± 45° Size L x W x D: 92.4" x 14.8" x 7.4"</p>	
<p>1900 MHz</p> <p>Manufacturer: Commscope Model #: HBXX-6517DS-A1M Frequency Band: 1850-1990 MHz Gain: 16.3 dBd Vertical Beamwidth: 4.7° Horizontal Beamwidth: 66° Polarization: Dual Pol ± 45° Size L x W x D: 74.9" x 12.0" x 6.5"</p>	

2300 MHz

Manufacturer: Commscope
Model #: HBXX-6517DS-A1M
Frequency Band: 1920-2180 MHz
Gain: 16.6 dBd
Vertical Beamwidth: 4.4°
Horizontal Beamwidth: 65°
Polarization: Dual Pol ± 45°
Size L x W x D: 92.4" x 14.8" x 7.4"

