

# EAST > North East > New England > New England East > MONUMENT\_SQ\_ME - Mosher, Kevin - kevin.mosher@verizonwireless.com - 05/21/2018 10:42:07

Project Detail		Location Inform	nation
Site Type	Macro	Siterra Site ID#	442344
Carrier Aggregation	true	Site Name	MONUMENT SQ ME
MPT Id		Siterra SR#	
eCIP-0	false	E-NodeB ID#	062043,062443
Project Name	850 ADD	PSLC#	136460
RFDS Project ID	1329877	Switch Name	Hooksett
Project ID	15222099	Tower Owner	
Site Traker Project ID		Tower Type	Building
RFDS Project Scope	Rev 2 (5/21/2018): Changing to dual-band	Street Address	One Monument Square
	700/850 RRHs and updated antennas.	City	Portland
	Rev 1: Updating to show 90W AWS RRH already installed.	State	ME
	Rev 0. Initial RFDS.	Zip Code	04101
	Remove (8) existing antennas. (4) are existing	County	Cumberland
	700, (3) are existing PCS LTE, and (1) is	Latitude	43.657499 / 43 39' 26.99" N
	unused 850 CDMA. Install (8) new antennas on side-by-side mounting brackets. Remove (4) existing 40W 700 RRH. Install (4) new dual-band 700/850 RRH.	Longitude	-70.258333 / 70 15' 29.99" W

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#### Antenna Summary

700 LTE	850 CDM A	850 LTE	1900 CDM A	1900 LTE	2100 LTE	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	QTY
ES		YES		YES	YES	CommScope	NHH-45B-R2B	150.5	153.5	100,280	true	true	PHYSICA L	4
ES		YES		YES	YES	COMMSCOPE	NHH-65B-R2B	150.5	153.5	10,190	true	true	PHYSICA L	4
em	oved A	ntenna	IS											
00 .TE	850 CDM A	850 LTE	1900 CDM A	1900 LTE	2100 LTE	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	QTY
ES						JMA Wireless	X7C-FRO-660-VR4	150.5	153.5	10,100,190, 280	true	false	PHYSICA L	5
				YES	YES	CSS ANTENNA, INC.	QAP-460-VR0	150.5	152.6	10,190,280	true	true	PHYSICA L	3
eta	ned An	tenna	S											
)0 TE	850 CDM A	850 LTE	1900 CDM A	1900 LTE	2100 LTE	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	QTY
	YES					CSS ANTENNA, INC.	X7CAP-665-VM0	150.5	153.5	90,255,330	false	false	PHYSICA L	3
						CSS ANTENNA, INC.	QAP-460-VR0	150.5	152.6	10,100,190, 280	true	true	PHYSICA L	5

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### **Equipment Summary**

Equipment Type	700 LTE	850 CDMA	850 LTE	1900 CDMA	1900 LTE	2100 LTE	Location	Make	Model	Cable Length	Cable Size	Inst. Type	Quantity
RRU	YES		YES				Tower	Samsung	B5/B13 RRH- BR04C			PHYSICAL	4
Mount	YES		YES		YES	YES	Tower	Commscope	BSAMNT-SBS-1-2			PHYSICAL	2
Mount	YES		YES		YES	YES	Tower	Commscope	BSAMNT-SBS-2-3			PHYSICAL	2
Coaxial Cables	YES		YES				Tower		Foam Jumpers		1/2"	PHYSICAL	14
Removed	Non A	ntennas											
Equipment Type	700 LTE	850 CDMA	850 LTE	1900 CDMA	1900 LTE	2100 LTE	Location	Make	Model	Cable Length	Cable Size	Inst. Type	Quantity
RRU	YES						Tower	Nokia	UHBB B13 RRH2x40			PHYSICAL	4
Retained N	Non Ar	tennas											
Equipment Type	700 LTE	850 CDMA	850 LTE	1900 CDMA	1900 LTE	2100 LTE	Location	Make	Model	Cable Length	Cable Size	Inst. Type	Quantity
RRU					YES		Tower	Nokia	UHFA B25 RRH 4x30			PHYSICAL	4
RRU						YES	Tower	Nokia	UHIE B66A RRH 4x45			PHYSICAL	4
OVP Box	YES		YES		YES	YES	Tower	Raycap	60VP Junction Box			PHYSICAL	4
Hybrid Cable	YES		YES		YES	YES	Tower		Hybrid Cable		6x12	PHYSICAL	4
Hybrid Cable	YES		YES		YES	YES	Tower		Hybrid Jumper		1x1	PHYSICAL	12
Coaxial Cables		YES					Tower		Foam Coax		1-5/8"	PHYSICAL	12
			YES		YES	YES	Tower		Foam Jumpers		1/2"	PHYSICAL	46

		Current Version	700 MHZ LTE		Proposed Versient	
		Current Version: 0000			Proposed Version: 0003	
Sector	DI	D2	D3	D1	D2	D3
Azimuth Cell/ENode B ID	10 062043	100 062043	280 062043	10 062043	100 062043	280 062043
Antenna Model	X7C-FRO-660-VR4_750_11 JMA Wireless	X7C-FRO-660-VR4_750_11 JMA Wireless	X7C-FRO-660-VR4_750_12 JMA Wireless	NHH-65B-R2B_0752_09 (686335)	NHH-45B-R2B_Port 1 45_0750_06	NHH-45B-R2B_Port 1 45_0750_09
Antenna Make	150.5	150.5	150.5	COMMSCOPE	CommScope	CommScope
Centerline(Ft)	3	0	3	0	150.5 0	150.5 0
Mechanical DT(Deg.) Electrical DT	11 153.5	11 153.5	12 153.5	9	6	9
Fip Height				153.5	153.5	153.5
ГMA make ГMA model	Nokia	Nokia	Nokia			
RRU make		UHBB B13 RRH 2x40	UHBB B13 RRH 2x40	Samsung	Samsung	Samsung
RRU model	2,2	2,2	2,2	B5/B13 RRH-BR04C 2,4	B5/B13 RRH-BR04C 2.4	B5/B13 RRH-BR04C 2,4
# of Tx, Rx Lines Position	E1					
	190			D4		
	062443 X7C-FRO-660-VR4 750 07			062043		
	JMA Wireless			NHH-65B-R2B_0752_09 (686335)		
	150.5			COMMSCOPE		
	4 7			150.5		
	153.5			9		
				153.5		
	Nokia			-		
	UHBB B13 RRH 2x40			Samsung		
	2,2			B5/B13 RRH-BR04C		
			2100 MHZ LTE	2,4	·	·
		Current Version:			Proposed Version:	
2	151	0000			0003	
Sector Azimuth	D1	D2 100	D3 280	D1 10	D2 100	D3 280
Cell/ENode B ID	062043	062043	062043	062043	062043	062043
Antenna Model	QAP-460-VR0_2070_04	QAP-460-VR0_2070_05	QAP-460-VR0_2070_04	NHH-65B-R2B_2130_03 (686354)	NHH-45B-R2B_Port 3 45_2120_03	NHH-45B-R2B_Port 3 45_2120_04
Antenna Make	CSS ANTENNA, LLC.	CSS ANTENNA, LLC.	CSS ANTENNA, LLC.	COMMSCOPE	CommScope	CommScope
Centerline(Ft) Mechanical DT(Deg.)	150.5 2	150.5 0	150.5	150.5	150.5	150.5
Electrical DT	4	5	4	3	0	0 4
fip Height	152.6	152.6	152.6	153.5	153.5	153.5
ſMA make ſMA model						
RU make	Nokia	Nokia	Nokia	Nokia	Nokia	Nokia
RRU model # of Tx, Rx Lines	UHIE B66A RRH 4x45 4,4	UHIE B66A RRH 4x45 4,4	UHIE B66A RRH 4x45 4,4			UHIE B66A RRH 4x45
Position		- <u>1</u> .		4,4	4,4	4,4
	E1			D4		
	190 062443			190		
	QAP-460-VR0_2070_05			NHH-65B-R2B 2130 03		
	CSS ANTENNA, LLC.			(686354)		
	150.5			COMMSCOPE 150.5		
	0			0		
	152.6			3		
				153.5		
	Nokia					
	UHIE B66A RRH 4x45			Nokia UHIE B66A RRH 4x45		
	4,4					
			1	4,4		
	·					
		Current Version:	1900 MHZ LTE		Proposed Vereion	
		Current Version:	1900 MHZ LTE		Proposed Version: 0003	
Sector	D1	0000 D2	D3	4,4	0003 D2	D3
Sector Azimuth Cell/ENode B ID	D1 10 062043	0000		4,4 D1 10 062043	0003 D2 100 062043	280 062043
Azimuth	10 062043	0000 D2 100 062043	D3 280	4,4 D1 10 062043	0003 D2 100 062043	280
Azimuth Cell/ENode B ID Antenna Model	10 062043	0000 D2 100 062043	D3 280 062043	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353)	0003 D2 100 062043 NHH-45B-R2B_Port 3 45_1970_03	280 062043 NHH-45B-R2B_Port 3 45_1970_04
Azimuth Cell/ENode B ID Antenna Model Antenna Make Centerline(Ft)	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5	0000 D2 100 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5	0003 D2 100 062043 NHI-45B-R2B-Port 3 45_1970_03 CommScope 150.5	280 062043 NHH-45B-R2B_Port 3 45_1970_04 CommScope 150.5
Azimuth Cell/ENode B ID Antenna Model Antenna Make Centerline(Ft) Mechanical DT(Deg.)	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC.	0000 D2 100 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC.	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC.	4,4 D1 10 062043 0630533 NHH 65B-R2B_1920_03 (6805353) COMMSCOPE 150.5 0	0003 D2 100 062043 062043 45_1970_03 CommScope 150.5 0	280 062043 NHH-45B-R2B_Port 3 45_1970_04 CommScope 150.5 0
Azimuth Cell/ENode B ID Antenna Model Antenna Make Centerline(Pt) Mechanical DT(Deg.) Electrical DT Fip Height	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0	0000 D2 100 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5	0003 D2 100 062043 NHI-45B-R2B-Port 3 45_1970_03 CommScope 150.5	280 062043 NHH-45B-R2B_Port 3 45_1970_04 CommScope 150.5
Azimuth Cell/ENode B ID Antenna Model Antenna Make Centerline(Ft) Mechanical DT(Deg.) Electrical DT Fip Height FMA make	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5	0000 D2 100 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3	0003 D2 100 0c2043 NHI-45B-R2B-Port 3 45_1970_03 CommScope 150.5 0 3	280 062043 NHH-45B-R2B Port 3 45_1970_04 CommScope 150.5 0 4
Azimuth Cell/ENode B ID Antenna Model Centerline(Ft) Gecenterline(Ft) Electrical DT(Deg.) Electrical DT Tip Height TipA make EMA model	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia	0000 D2 100 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia	4,4 D1 10 062043 NHL-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 153.5	0003 D2 100 062043 NHH-45B-R2B-Port 3 45_1970_03 CommScope 150.5 0 3 153.5	280 062043 NHL-45B-R2B Port 3 45_1970_04 CommScope 150.5 0 4 153.5
Azimuth Zell/ENode B ID Antenna Model Eenterline(Pt) Mechanical DT(Deg.) Electrical DT (Fig Height EMA make EMA model RU make RU make	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30	0000 D2 100 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 5 152.6 Nokia UHFA B25 RRH 4x30	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia UHFA B25 RRH 4x30	4,4 Dl 10 062043 NHH-65B-R2B_1920_03 (686353) COMM/SCOPE 150.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	0003 D2 100 0c2043 XhH-45B-R2B_Port 3 45_970_03 CommScope 150.5 0 3 153.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	280 062043 NHH 45B-R2B_Port 3 45_1970_04 CommScope 150_5 0 4 153_5 Vokia UHFA B25 RRH 4x30
Azimuth Zell/ENode B ID Antenna Model Centerline(Pt) Mechanical DT(Deg.) Slectrical DT Eip Height MA make EMA model RU make RU madel ¢ of Tx, Rx Lines	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia	0000 D2 100 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 153.5 Nokia	0003 D2 100 062043 NHH-45B-R2B_Port 3 45_J970_03 CommScope 150.5 0 3 153.5 Nokia	280 062043 NHH-45B-R2B Port 3 45_1970_04 CommScope 150.5 0 4 153.5 Nokia
Azimuth Zell/ENode B ID Antenna Model Centerline(Pt) Mechanical DT(Deg.) Slectrical DT Eip Height MA make EMA model RU make RU madel ¢ of Tx, Rx Lines	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4 E1	0000 D2 100 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 5 152.6 Nokia UHFA B25 RRH 4x30	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia UHFA B25 RRH 4x30	4,4 Dl 10 062043 NHH-65B-R2B_1920_03 (686353) COMM/SCOPE 150.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	0003 D2 100 0c2043 XhH-45B-R2B_Port 3 45_970_03 CommScope 150.5 0 3 153.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	280 062043 NHH 45B-R2B_Port 3 45_1970_04 CommScope 150_5 0 4 153_5 Vokia UHFA B25 RRH 4x30
Azimuth Zell/ENode B ID Antenna Model Centerline(Pt) Mechanical DT(Deg.) Slectrical DT Eip Height MA make EMA model RU make RU madel ¢ of Tx, Rx Lines	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4 E1 190	0000 D2 100 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 5 152.6 Nokia UHFA B25 RRH 4x30	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia UHFA B25 RRH 4x30	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 153.5 Nokia UHFA B25 RRH 4x30 4,4 D4 190	0003 D2 100 0c2043 XhH-45B-R2B_Port 3 45_970_03 CommScope 150.5 0 3 153.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	280 062043 NHH 45B-R2B_Port 3 45_1970_04 CommScope 150_5 0 4 153_5 Vokia UHFA B25 RRH 4x30
Azimuth Zell/ENode B ID Antenna Model Centerline(Pt) Mechanical DT(Deg.) Slectrical DT Eip Height MA make EMA model RU make RU madel ¢ of Tx, Rx Lines	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4 E1	0000 D2 100 002043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia UHFA B25 RRH 4x30	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 153.5 Nokia UHFA B25 RRH 4x30 4,4 D4 190 062043	0003 D2 100 0c2043 XhH-45B-R2B_Port 3 45_970_03 CommScope 150.5 0 3 153.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	280 062043 NHH 45B-R2B_Port 3 45_1970_04 CommScope 150_5 0 4 153_5 Vokia UHFA B25 RRH 4x30
Azimuth Cell/ENode B ID Antenna Model Centerline(Ft) Mechanical DT(Deg.) Electrical DT Fip Height FMA make EMA model RRU make RRU make RRU make	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4 E1 190 062443 QAP-460-VR0_1920_05	0000 D2 100 002043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia UHFA B25 RRH 4x30	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 153.5 Nokia UHFA B25 RRH 4x30 4,4 D4 190	0003 D2 100 0c2043 XhH-45B-R2B_Port 3 45_970_03 CommScope 150.5 0 3 153.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	280 062043 NHH 45B-R2B_Port 3 45_1970_04 CommScope 150.5 0 4 153.5 Nokia UHFA B25 RRH 4x30
Azimuth Zell/ENode B ID Antenna Model Centerline(Pt) Mechanical DT(Deg.) Slectrical DT Eip Height MA make EMA model RU make RU madel ¢ of Tx, Rx Lines	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4.4 E1 190 062443	0000 D2 100 002043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia UHFA B25 RRH 4x30	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 153.5 0 3 UHFA B25 RRH 4x30 4,4 D4 190 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE	0003 D2 100 0c2043 XhH-45B-R2B_Port 3 45_970_03 CommScope 150.5 0 3 153.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	280 062043 NHH 45B-R2B_Port 3 45_1970_04 CommScope 150_5 0 4 153_5 Vokia UHFA B25 RRH 4x30
Azimuth Zell/ENode B ID Antenna Model Centerline(Pt) Mechanical DT(Deg.) Slectrical DT Eip Height MA make EMA model RU make RU madel ¢ of Tx, Rx Lines	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4 E1 190 062443 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0	0000 D2 100 002043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia UHFA B25 RRH 4x30	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 153.5 Nokia UHFA B25 RRH 4x30 4,4 D4 190 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5	0003 D2 100 0c2043 XhH-45B-R2B_Port 3 45_970_03 CommScope 150.5 0 3 153.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	280 062043 NHH 45B-R2B_Port 3 45_1970_04 CommScope 150_5 0 4 153_5 Vokia UHFA B25 RRH 4x30
Azimuth Zell/ENode B ID Antenna Model Centerline(Pt) Mechanical DT(Deg.) Slectrical DT Eip Height MA make EMA model RU make RU madel ¢ of Tx, Rx Lines	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4 E1 190 062443 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5	0000 D2 100 002043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia UHFA B25 RRH 4x30	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 153.5 0 3 UHFA B25 RRH 4x30 4,4 D4 190 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE	0003 D2 100 0c2043 XhH-45B-R2B_Port 3 45_970_03 CommScope 150.5 0 3 153.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	280 062043 NHH 45B-R2B_Port 3 45_1970_04 CommScope 150_5 0 4 153_5 4 153_5 Nokia UHFA B25 RRH 4x30
Azimuth Cell/ENode B ID Antenna Model Centerline(Ft) Mechanical DT(Deg.) Electrical DT Fip Height FMA make EMA model RRU make RRU make RRU make	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4 E1 190 062443 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0	0000 D2 100 002043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia UHFA B25 RRH 4x30	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (6553) COMMSCOPE 150.5 0 3 153.5 Nokia UHFA B25 RRH 4x30 4,4 D4 190 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 0	0003 D2 100 0c2043 XhH-45B-R2B_Port 3 45_970_03 CommScope 150.5 0 3 153.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	280 062043 NHH 45B-R2B_Port 3 45_1970_04 CommScope 150_5 0 4 153_5 4 153_5 Nokia UHFA B25 RRH 4x30
Azimuth Cell/ENode B ID Antenna Model Antenna Make Centerline(Ft)	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4.4 E1 190 062443 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6	0000 D2 100 002043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia UHFA B25 RRH 4x30	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 153.5 Nokia UHFA B25 RRH 4x30 4,4 D4 190 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 COMMSCOPE	0003 D2 100 0c2043 XhH-45B-R2B_Port 3 45_970_03 CommScope 150.5 0 3 153.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	280 062043 NHH 45B-R2B_Port 3 45_1970_04 CommScope 150_5 0 4 153_5 4 153_5 Nokia UHFA B25 RRH 4x30
Azimuth Cell/ENode B ID Antenna Model Centerline(Ft) Mechanical DT(Deg.) Electrical DT Fip Height FMA make EMA model RRU make RRU make RRU make	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4 E1 190 062443 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5	0000 D2 100 002043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia UHFA B25 RRH 4x30	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 153.5 Nokia UHFA B25 RRH 4x30 4,4 D4 190 062043 NHH-65B-R2B_1920_03 (686333) COMMSCOPE 150.5 0 3 153.5	0003 D2 100 0c2043 XhH-45B-R2B_Port 3 45_970_03 CommScope 150.5 0 3 153.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	280 062043 NHH 45B-R2B_Port 3 45_1970_04 CommScope 150_5 0 4 153_5 Vokia UHFA B25 RRH 4x30
Azimuth Zell/ENode B ID Antenna Model Centerline(Pt) Mechanical DT(Deg.) Slectrical DT Eip Height MA make EMA model RU make RU madel ¢ of Tx, Rx Lines	10 062043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4 E1 190 062443 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6	0000 D2 100 002043 QAP-460-VR0_1920_05 CSS ANTENNA, INC. 150.5 0 5 152.6 Nokia UHFA B25 RRH 4x30 4,4	D3 280 062043 QAP-460-VR0_1920_06 CSS ANTENNA, INC. 150.5 0 6 152.6 Nokia UHFA B25 RRH 4x30	4,4 D1 10 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 153.5 Nokia UHFA B25 RRH 4x30 4,4 D4 190 062043 NHH-65B-R2B_1920_03 (686353) COMMSCOPE 150.5 0 3 153.5 153.5	0003 D2 100 0c2043 XhH-45B-R2B_Port 3 45_970_03 CommScope 150.5 0 3 153.5 0 3 153.5 Nokia UHFA B25 RRH 4x30	280 062043 NHH 45B-R2B_Port 3 45_1970_04 CommScope 150_5 0 4 153_5 Vokia UHFA B25 RRH 4x30

	Proposed Version:	
	0003	
	D2	D3
	100	280
1	062043	062043
	NHH-45B-R2B_Port 1 45_0750_06	NHH-45B-R2B_Port 1 45_0750_09
1	CommScope	CommScope
	150.5	150.5
	0	0
1	6	9
1	153.5	153.5
1	Samsung	Samsung
1	B5/B13 RRH-BR04C	B5/B13 RRH-BR04C
	2,4	2,4
T		
+		
+		
+		
+		
+		
+		
t		
t		

PREPARED FOR:
118 FLANDERS ROAD WESTBOROUGH, MA 01581
Reviewed for Code Compliance Permitting and Inspections Department
Approved with Conditions 10/24/2018
CHECKED BY:
APPROVED BY:
SUBMITTALS rev. date description by
site name: MONUMENT SQ ME
SITE ADDRESS: 1 MONUMENT SQUARE PORTLAND, ME 04101
sheet title RF ANTENNA DESIGN
SHEET NUMBER

Sector	Make	Model	Centerline	Tip Height		Elec. Tilt		Gai n	Hori z BW	Regulator y Power	700 Callsigns	850 Callsigns	1900 Callsigns	2100 Callsigns	28 GHz Callsigns	31 GHz Callsigns
D2	Comm Sco pe	NHH-45B- R2B_Port 1 45_0750_06	150.5ft/45. 87m	153.5ft/46. 79m	100	6	0	14.5 08	48	189.04	WQJQ689					
D3	Comm Sco pe	NHH-45B- R2B_Port 1 45_0750_09	150.5ft/45. 87m	153.5ft/46. 79m	280	9	0	14.5 48	48	190.79	WQJQ689					
D2	Comm Sco pe	NHH-45B- R2B_Port 1 45_0880_06	150.5ft/45. 87m	153.5ft/46. 79m	100	6	0	15.4 18	43	491.81		KNKQ459				
D3	Comm Sco pe	NHH-45B- R2B_Port 1 45_0880_09	150.5ft/45. 87m	153.5ft/46. 79m	280	9	0	15.2 98	43	489.55		KNKQ459				
D2	CommSco pe	NHH-45B- R2B_Port 3 45 1970 03	150.5ft/45. 87m	153.5ft/46. 79m	100	3	0	17.9 08	43	335.33			KNLG999, KNLH266, WQYH214			
D3	CommSco pe	NHH-45B- R2B_Port 3 45 1970 04	150.5ft/45. 87m	153.5ft/46. 79m	280	4	0	17.9 18	43	336.10			KNLG999, KNLH266, WQYH214			
D2	CommSco pe	NHH-45B- R2B_Port 3 45_2120_03	150.5ft/45. 87m	153.5ft/46. 79m	100	3	0	18.0 68	41	176.41				WQGA899 ,WQGB35 7,WRAM8 80		
D3	CommSco pe	NHH-45B- R2B_Port 3 45_2120_04	150.5ft/45. 87m	153.5ft/46. 79m	280	4	0	18.1 28	41	178.87				WQGA899 ,WQGB35 7,WRAM8 80		
D1	COMMSC OPE	NHH-65B- R2B_0752_09 (686335)	150.5ft/45. 87m	153.5ft/46. 79m	10	9	0	12.5 8	65.2 5	121.27	WQJQ689					
D4	COMMSC OPE	NHH-65B- R2B_0752_09 (686335)	150.5ft/45. 87m	153.5ft/46. 79m	190	9	0	12.5 8	65.2 5	121.27	WQJQ689					
D1	COMMSC OPE	NHH-65B- R2B_0880_09 (686336)	150.5ft/45. 87m	153.5ft/46. 79m	10	9	0	11.8 5	59.7 5	495.45		KNKQ459				

### Callsigns Per Antenna - Proposed

MONUMENT\_SQ\_ME - Mosher, Kevin - kevin.mosher@verizonwireless.com - 05/21/2018 10:42:07

	850 M	HZ LTE		
	Current Version:		Proposed Version	
			0003	
Sector		Dl	D2	D3
Azimuth		10	100	280
Cell/ENode B ID		062043	062043	062043
Antenna Model		NHH-65B-R2B_0880_09 (686336)	NHH-45B-R2B_Port 1 45 0880 06	NHH-45B-R2B_Port 1 45 0880 09
Antenna Make		COMMSCOPE	CommScope	CommScope
Centerline(Ft)		150.5	150.5	150.5
Mechanical DT(Deg.)		0	0	0
Electrical DT		9	6	9
Tip Height		153.5	153.5	153.5
TMA make				
TMA model				
RRU make		Samsung	Samsung	Samsung
RRU model		B5/B13 RRH-BR04C	B5/B13 RRH-BR04C	B5/B13 RRH-BR040
# of Tx, Rx Lines		4,4	4,4	4,4
Position				
		D4 190		
		062043		
		NHH-65B-R2B_0880_09 (686336)		
		COMMSCOPE		
		150.5		
		0		
		9		
		153.5		
		Samsung		
		B5/B13 RRH-BR04C		
		4,4		

			850 MHZ CDMA			
		Current Version:			Proposed Version:	
		0000			0003	
Sector	D1	D2	D3	D1	D2	D3
Azimuth	330	90	225	330	90	225
Cell/ENode B ID						
Antenna Model	X7CAP-665-V-04C (350044)	X7CAP-665-V-04C (350044)	X7CAP-665-V-02C (350042)	X7CAP-665-V-04C (350044)	X7CAP-665-V-04C (350044)	X7CAP-665-V-02C (350042)
Antenna Make	CSS ANTENNA, INC.					
Centerline(Ft)	150.5	150.5	150.5	150.5	150.5	150.5
Mechanical DT(Deg.)	0	0	0	0	0	0
Electrical DT	4	4	2	4	4	2
Tip Height	153.5	153.5	153.5	153.5	153.5	153.5
TMA make	]					
TMA model						
RRU make	]					
RRU model						
# of Tx, Rx Lines		,			,	,
Position						

WQJQ689	Northeast	WU	REA0 01	С	ME	Cumbe rland	Cellco Partnership	Yes	22.000	0-	.000- .000	.000- .000	190.79	1000	337.2	Active	Added
WQYH214	Boston- Providence	CW	MTA0 08	В	ME	Cumbe rland	Cellco Partnership	Yes	10.000	1885.0	.000	.000- .000	336.10	1640	337.2	Active	Added
WRAM880	Northeast	AW	REA0 01	D	ME	Cumbe rland	Cellco Partnership	Yes		1740.0	.000- .000	.000- .000	178.87	1640	337.2	Active	Added

Callsigns	Market	Radio Code	Marke t Numb er	Block	State	Count y	Licensee Name	Wholl y Owne d	Total MHZ	Freq Range 1	Freq Range 2	Freq Range 3	F R 4
KNKQ459	Portland, ME	CL	CMA1 52	В	ME	Cumbe rland	BELL ATLANTIC MOBILE SYSTEMS OF ALLENTOWN , INC.	Yes	25.000	835.00 0- 845.00 0	880.00 0- 890.00 0	846.50 0- 849.00 0	8. 0. 8. 0
KNLG999	Portland- Brunswick, ME	CW	BTA35 7	F	ME	Cumbe rland	RURAL CELLULAR CORPORATI ON	Yes	10.000	1890.0 00- 1895.0 00	1970.0 00- 1975.0 00	.000- .000	.0
KNLH266	Portland- Brunswick, ME	CW	BTA35 7	Ε	ME	Cumbe rland	BELL ATLANTIC MOBILE SYSTEMS OF ALLENTOWN , INC.	Yes	10.000	1885.0 00- 1890.0 00	1965.0 00- 1970.0 00	.000- .000	.0
WPQU553	Portland, ME	TN	BEA00 2	G	ME	Cumbe rland	Straight Path Spectrum, LLC	Yes	100.00 0	38900. 000- 38950. 000	39600. 000- 39650. 000	.000- .000	0. 0.
WPQU673	Portland, ME	TN	BEA00 2	I	ME	Cumbe rland	Straight Path Spectrum, LLC	Yes	100.00 0	39000. 000- 39050. 000	39700. 000- 39750. 000	.000- .000	0. 0.
WPQU810	Portland, ME	TN	BEA00 2	К	ME	Cumbe rland	Straight Path Spectrum, LLC	Yes	100.00 0	39100. 000- 39150. 000	39800. 000- 39850. 000	.000- .000	0. .C
WQGA899	Portland, ME	AW	BEA0 02	В	ME	Cumbe rland	Cellco Partnership	Yes	20.000	1720.0 00- 1730.0 00	2120.0 00- 2130.0 00	.000- .000	.0
WQGB357	Portland, ME	A₩	BEA0 02	С	ME	Cumbe rland	Cellco Partnership	Yes	10.000	1730.0 00- 1735.0 00	2130.0 00- 2135.0 00	.000- .000	.0

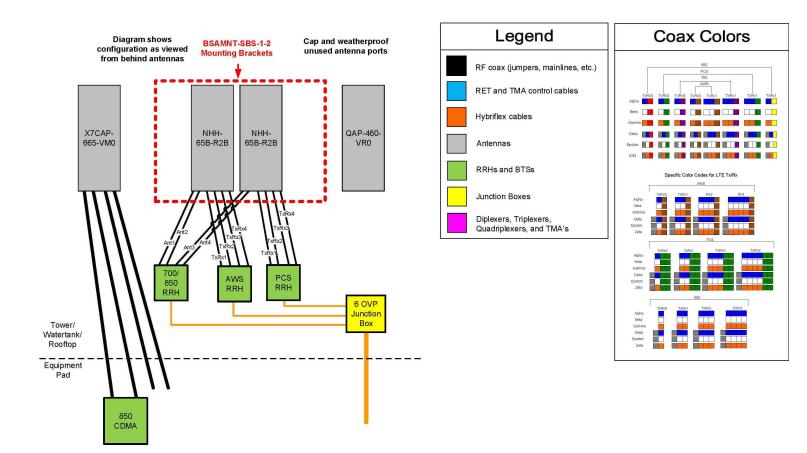
#### Callsigns

MONUMENT\_SQ\_ME - Mosher, Kevin - kevin.mosher@verizonwireless.com - 05/21/2018 10:42:07

D4	COMMSC OPE	NHH-65B- R2B_0880_09 (686336)	150.5ft/45. 87m	153.5ft/46. 79m	190	9	0	11.8 5	59.7 5	495.45	KNKQ459			
Dl	COMMSC OPE	NHH-65B- R2B_1920_03 (686353)	150.5ft/45. 87m	153.5ft/46. 79m	10	3	0	15.6 88	66.7 5	201.13		KNLG999, KNLH266, WQYH214		
D4	COMMSC OPE	NHH-65B- R2B_1920_03 (686353)	150.5ft/45. 87m	153.5ft/46. 79m	190	3	0	15.6 88	66.7 5	201.13		KNLG999, KNLH266, WQYH214		
D1	COMMSC OPE	NHH-65B- R2B_2130_03 (686354)	150.5ft/45. 87m	153.5ft/46. 79m	10	3	0	16.3 7000 1	63.5	119.32			WQGA899 ,WQGB35 7,WRAM8 80	
D4	COMMSC OPE	NHH-65B- R2B_2130_03 (686354)	150.5ft/45. 87m	153.5ft/46. 79m	190	3	0	16.3 7000 1	63.5	119.32			WQGA899 ,WQGB35 7,WRAM8 80	
D3	CSS ANTENN A, INC.	X7CAP-665-V- 02C (350042)	150.5ft/45. 87m	153.5ft/46. 79m	225	2	0	14.1	64.7 5	434.51	KNKQ459			
D1	CSS ANTENN A, INC.	X7CAP-665-V- 04C (350044)	150.5ft/45. 87m	153.5ft/46. 79m	330	4	0	14.1	64.7 5	436.52	KNKQ459			
D2	CSS ANTENN A, INC.	X7CAP-665-V- 04C (350044)	150.5ft/45. 87m	153.5ft/46. 79m	90	4	0	14.1	64.7 5	453.94	KNKQ459			

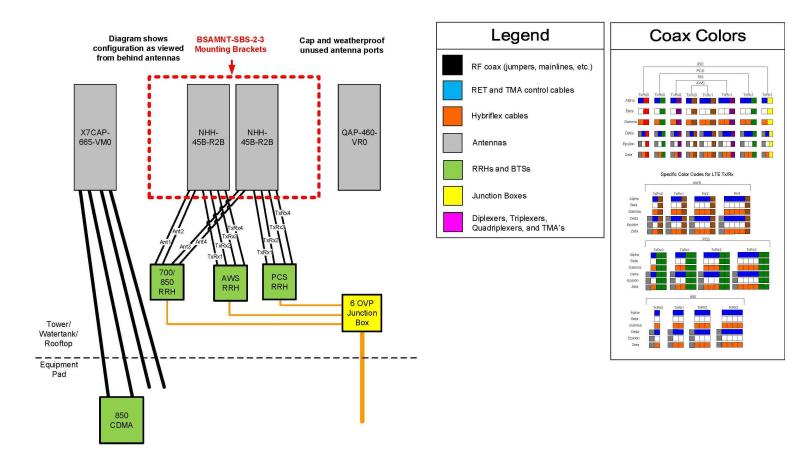
Freq Range 4	Regul atory Power	Thres hold (W)	POPs/ Sq Mi	Status	Projec t Action
891.50 0- 894.00 0	495.45	500	337.2	Active	Added
.000- .000	336.10	1640	337.2	Active	Added
.000- .000	336.10	1640	337.2	Active	Added
.000- .000			337.2	Active	
.000- .000			337.2	Active	
.000- .000			337.2	Active	
.000- .000	178.87	1640	337.2	Active	Added
.000- .000	178.87	1640	337.2	Active	Added

PREPARED FOR: Verizon 118 FLANDERS ROAD WESTBOROUGH, MA 01581				
Reviewed for Code Compliance Permitting and Inspections Department Approved with Conditions 10/24/2018				
CHECKED BY:				
APPROVED BY:				
SUBMITTALS       REV.     DATE     DESCRIPTION     BY				
site name: MONUMENT SQ ME				
site address: 1 MONUMENT SQUARE PORTLAND, ME 04101				
SHEET TITLE RF ANTENNA DESIGN				
SHEET NUMBER				

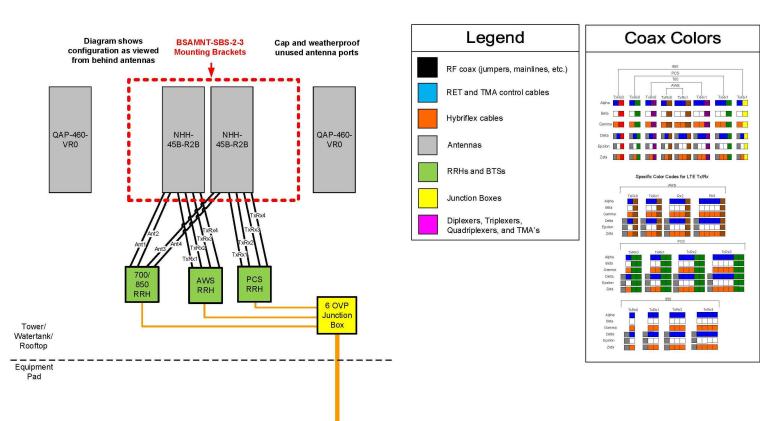


## Alpha & Gamma Sectors

**Beta Sector** 



PREPARED FOR:				
verizon				
118 FLANDERS ROAD WESTBOROUGH, MA 01581				
Reviewed for Code Compliance Permitting and Inspections Department Approved with Conditions 10/24/2018				
CHECKED BY:				
APPROVED BY:				
SUBMITTALS				
REV. DATE DESCRIPTION BY				
site name: MONUMENT SQ ME				
SITE ADDRESS: 1 MONUMENT SQUARE PORTLAND, ME 04101				
sheet title RF ANTENNA DESIGN				
SHEET NUMBER				



# **Delta Sector**

PREPARED FOR: Verizon 118 FLANDERS ROAD WESTBOROUGH, MA 01581				
Reviewed for Code Compliance Permitting and Inspections Department Approved with Conditions 10/24/2018				
CHECKED BY:				
APPROVED BY:				
SUBMITTALS       REV.     DATE     DESCRIPTION     BY				
site name: MONUMENT SQ ME				
SITE ADDRESS: 1 MONUMENT SQUARE PORTLAND, ME 04101				
sheet title RF ANTENNA DESIGN				
sheet number				