

NED 03 SEC Terrain Database  
US Census 2010 PL Database

**Charlottesville, VA - WQMZ (FM)**  
**Service Contour Study:**  
**Proposed Auxiliary vs Primary**  
**C.F.R. Section 73.1675(a)(1) Study**

**WQMZ.L**  
Charlottesville, VA  
BLH20000120AAT  
Facility ID: 10653  
Latitude: 38-02-54 N  
Longitude: 078-28-12 W  
ERP: 6.00 kW  
Channel: 236A (95.1 MHz)  
AMSL Height: 263.0 m  
Horiz. Pattern: Omni

60 dBµ F(50:50) Contour  
Total Population: 342,326  
Coverage Area: 8,640.2 sq. km

**WQMZ.Paux**  
Charlottesville, VA  
Proposed Aux Operation  
Facility ID: 10653  
Latitude: 38-02-54 N  
Longitude: 078-28-12 W  
ERP: 4.20 kW  
Channel: 236A (95.1 MHz)  
AMSL Height: 234.0 m  
Horiz. Pattern: Omni

60 dBµ F(50:50) Contour  
Total Population: 158,204  
Coverage Area: 1,504.1 sq. km

Terrain  
13 1159 m

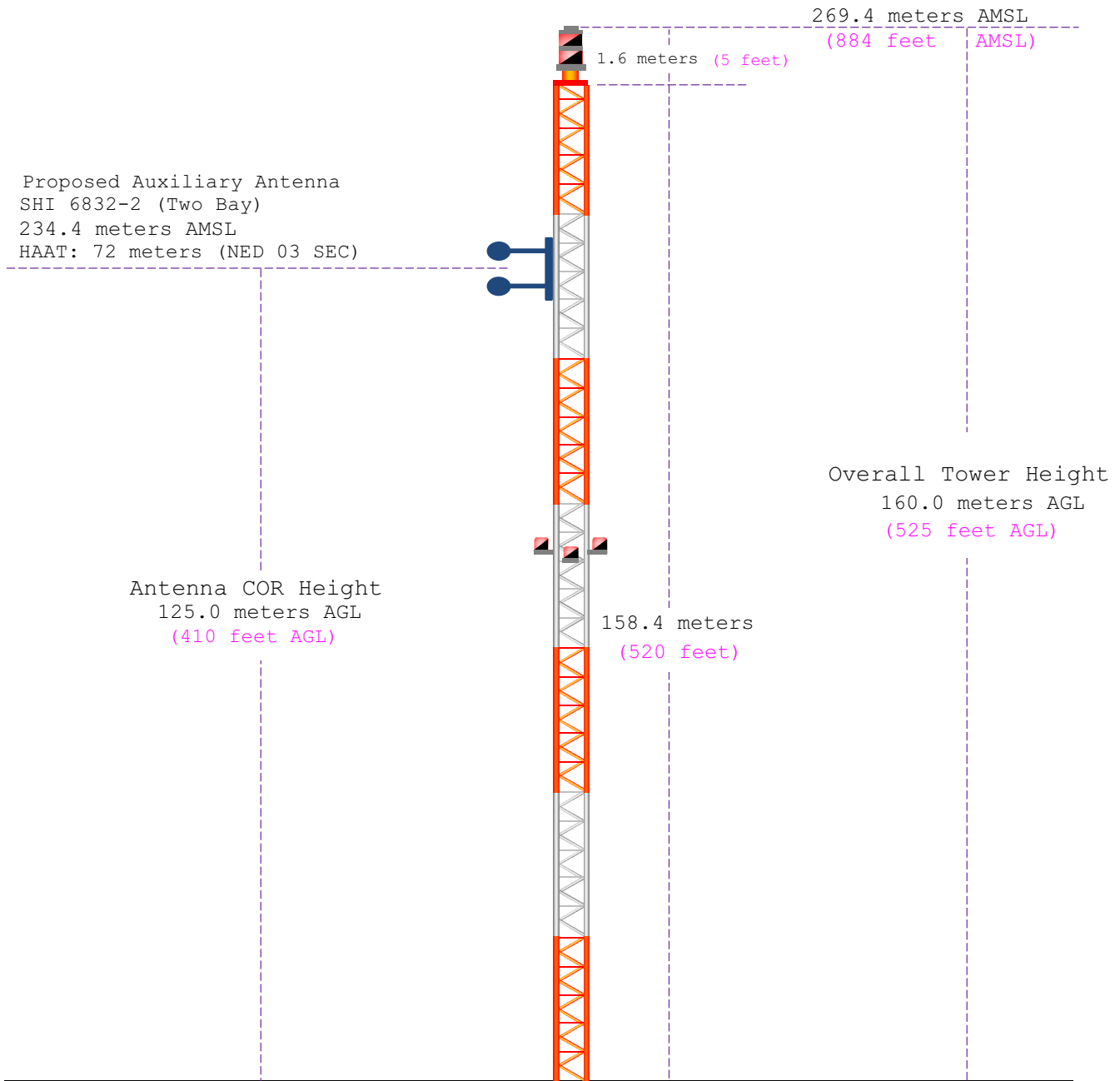
Scale 1:375,000  
0 6 12 18 km

Asher Broadcast Consulting LLC  
justinasher@consultant.com  
1 (202) 875-2986

V-Soft Communications LLC ©

# Auxiliary FM

## Vertical Plan of Antenna System



Ground Elevation: 109.4 meters AMSL (359 feet AMSL)			
<b>Address:</b> 901 Melbourne Road			
<b>City:</b> Charlottesville	<u>Latitude (D M S)</u>		<u>Longitude (D M S)</u>
<b>County:</b> Albemarle	NAD 27 datum values:		38 02 54.30152 78 28 12.05925
<b>State:</b> Virginia	NAD 83 datum values:		38 02 54.80000 78 28 11.10000
<b>Antenna Structure Registration</b>	Drawing Is Not To Scale		<b>Asher Broadcast Consulting, LLC</b>
1064938			justinasher@consultant.com 1(202)875-2986

# Auxiliary FM

## Copy of Existing Antenna Structure Registration

(Public Record Copy)

**Registration Detail**

Reg Number	1064938	Status	Constructed
File Number	A0921402	Constructed	11/09/1999
EMI	No	Dismantled	
NEPA	No		

**Antenna Structure**

Structure Type GTOWER - Guyed Structure Used for Communication Purposes

**Location** (in NAD83 Coordinates)

Lat/Long	38-02-54.8 N 078-28-11.1 W	Address	901 Melbourne Rd (VA 15979-A)
City, State	CHARLOTTESVILLE , VA		
Zip	22901	County	ALBEMARLE
Center of AM Array		Position of Tower in Array	

**Heights (meters)**

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
109.4	160.0
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
269.4	158.4

**Painting and Lighting Specifications**

FAA Chapters 3, 4, 5, 12

Paint and Light in Accordance with FAA Circular Number 70/7460-1K

**FAA Notification**

FAA Study	2014-AEA-1289-OE	FAA Issue Date	06/27/2014
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**Owner & Contact Information**

FRN	0022984884	Owner Entity Type	Limited Liability Company
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**Owner**

SBA GC Towers, LLC  
 Attention To: Edward G. Roach  
 8051 Congress Avenue  
 Boca Raton , FL 33487

P: (561)995-7670  
 F:  
 E: ERoach@sbsite.com

**Contact**

Attention To: Edward G. Roach  
 8051 Congress Avenue  
 Boca Raton , FL 33487

P: (561)995-7670  
 F: (941)373-0031  
 E: ERoach@sbsite.com

**Last Action Status**

Status	Constructed	Received	09/04/2014
Purpose	Notification	Entered	09/04/2014
Mode	Interactive		

**Related Applications**

09/04/2014	A0921402 - Notification (NT)
09/04/2014	A0921401 - Modification (MD)
01/30/2014	A0886778 - Admin Update (AU)

Related applications (9)

**Comments****Comments**

None

**History**

Date	Event
09/05/2014	Registration Printed
09/04/2014	ASR Application receipt email sent: Tower email
09/04/2014	Construction Notification Received
All History (21)	

**Automated Letters**

09/05/2014	Authorization, Reference
01/31/2014	Authorization, Reference
09/19/2013	Authorization, Reference

All letters (11)

# *Auxiliary FM*

## *HAAT and Miscellaneous Coordinate Information*

### HAAT Calculation (1927):

N. Lat. = 380254    W. Lng. = 782812  
 HAAT and Distance to Contour,  
 FCC, FM 2-10 Mi, 51 pts Method - NED 03 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	163.0	71.0	4.2000	6.23	1.000	22.23
045	129.0	105.0	4.2000	6.23	1.000	26.72
090	212.8	21.2	4.2000	6.23	1.000	14.35
135	101.5	132.5	4.2000	6.23	1.000	29.50
180	168.8	65.2	4.2000	6.23	1.000	21.40
225	173.6	60.4	4.2000	6.23	1.000	20.69
270	186.8	47.2	4.2000	6.23	1.000	18.24
315	161.5	72.5	4.2000	6.23	1.000	22.44

Ave EL= 162.12 M    HAAT= 71.88 M    AMSL= 234 M

### NAD 1983 to NAD 1927 Conversion:

	<u>Latitude</u>	<u>Longitude</u>
NAD 27 datum values:	38 02 54.30152	78 28 12.05925
NAD 83 datum values:	38 02 54.80000	78 28 11.10000

### Various Coordinate Conversion Calculations (NAD 1983):

Position Type	Lat Lon
<b>Degrees Lat Long</b>	38.0485556°, -078.4697500°
<b>Degrees Minutes</b>	38°02.91333', -078°28.18500'
<b>Degrees Minutes Seconds</b>	38°02'54.8000", -078°28'11.1000"
<b>UTM</b>	17S 722020mE 4214224mN
<b>UTM centimeter</b>	17S 722020.14mE 4214224.94mN
<b>MGRS</b>	17SQC2202014224
<b>Grid North</b>	1.6°
<b>GARS</b>	204LS37
<b>Maidenhead</b>	FM08SB31PP16
<b>GEOREF</b>	GJMJ31810291