

**Page 1**  
**LifeTalk Radio, Inc.**  
**Identification of Facilities**  
**Dalton, Georgia**

CALL FORMAT LATITUDE	ST	CITY ARN LONGITUDE	FREQ OWNER HAAT:m AMSL:m	CHN	CL	ERP	STAT
Proposed	GA	DALTON	89.30000		D	10.00	APP
Unknown or	New CP	BLFT-20010921AAQ	LIFETALK RADIO, INC.				
34-43-59.2 N	85-01-07.8 W	321.808	596.000				
*WMBW	TN	CHATTANOOGA	88.90000		C	100000.00	LIC
Unknown or	New CP	BMLD-20020919AAA	THE MOODY BIBLE INSTITUTE OF CHICAGO				
34-57-43.3 N	85-22-39.9 W	426.679	760.000				
*WYBK	TN	CHATTANOOGA	89.70000		C1	100000.00	LIC
Unknown or	New CP	BMLD-20140602BAP	BIBLE BROADCASTING NETWORK, INC.				
35-10-18.3 N	85-18-58.9 W	196.152	655.000				
W207CI	TN	CLEVELAND	89.30000		D	13.00	LIC
Unknown or	New CP	BLFT-20111212AHH	HOPE MEDIA GROUP				
35-12-02.3 N	84-52-59.8 W	79.021	383.000				
W207CH	GA	BLUE RIDGE	89.30000		D	10.00	LIC
Unknown or	New CP	BLFT-20170515ABU	CSN INTERNATIONAL				
34-54-22.2 N	84-22-11.7 W	51.207	674.000				
WNTG	TN	DUCKTOWN	89.30000		A	750.00	CP
Unknown or	New CP	0000166690	LEGACY BROADCASTING, INC.				
35-00-58.2 N	84-17-37.5 W	86.785	684.629				
WRFG	GA	ATLANTA	89.30000		C1	65000.00	LIC
Unknown or	New CP	BLD-20071001DQH	RADIO FREE GEORGIA BROADCASTING FOUNDATION, INC.				
33-48-26.4 N	84-20-21.7 W	111.652	432.000				
WLRH	AL	HUNTSVILLE	89.30000		C0	100000.00	LIC
Unknown or	New CP	BLD-20121016ADC	ALABAMA EDUCATIONAL TELEVISION COMMISSION				
34-44-13.3 N	86-31-45.0 W	289.810	557.100				
WMKW	TN	CROSSVILLE	89.30000		C3	500.00	LIC
Unknown or	New CP	BLD-19961120KA	THE MOODY BIBLE INSTITUTE OF CHICAGO				
35-46-38.2 N	84-58-33.8 W	385.361	930.000				
W260AJ	GA	RINGGOLD	99.90000		D	100.00	LIC
Unknown or	New CP	BLFT-20120413ABD	IMMANUEL BROADCASTING NETWORK, INC.				
34-55-35.2 N	85-05-44.8 W	101.511	407.000				
WNGU	GA	DAHLONEGA	89.50000		A	750.00	LIC
Unknown or	New CP	BLD-19980915AAA	GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION				
34-31-29.3 N	83-59-49.7 W	53.440	573.000				

**Page 2**  
**LifeTalk Radio, Inc.**  
**Identification of Facilities**  
**Dalton, Georgia**

NCE-APP      GA      CEDARTOWN      89.50000      C2      35000.00 CP  
Unknown or New CP 0000166271      EVANGELICAL MEGAPHONE MINISTRY, INC.  
33-57-14.3 N    85-21-29.5 W -14.541 334.800

WPTP-LP      TN      CHATTANOOGA      100.10000      LP100 100.00      LIC  
Unknown or New CP BMLL-20180716AAY ALTON PARK DEVELOPMENT CORPORATION  
34-59-40.2 N    85-18-23.8 W -114.252 212.000

WBCX      GA      GAINESVILLE      89.10000      A      840.00      LIC  
Unknown or New CP BLED-19851202KD    BRENAU COLLEGE  
34-19-01.3 N    83-49-44.6 W 59.284 447.000

WTBB      AL      GADSDEN      89.90000      C3      4800.00      LIC  
Unknown or New CP BLED-20000203AAC TRINITY CHRISTIAN ACADEMY  
34-06-03.3 N    85-59-36.8 W 104.163 390.000

WNSY      GA      TALKING ROCK      100.10000      C3      7000.00      LIC  
Unknown or New CP BLH-20020128AAS    DAVIS BROADCASTING OF ATLANTA, L.L.C.  
34-37-50.3 N    84-29-28.7 W 158.773 666.000

WLFJ-FM      SC      GREENVILLE      89.30000      C1      41000.00 LIC  
Unknown or New CP BLED-19830512AP    RADIO TRAINING NETWORK, INC.  
34-56-26.4 N    82-24-43.4 W 300.133 643.000

WMOT      TN      MURFREESBORO      89.50000      C1      100000.00 LIC  
Unknown or New CP BLED-20050916AAV MIDDLE TENNESSEE STATE UNIVERSITY  
36-05-07.2 N    86-26-22.0 W 175.640 384.000

**\*This proposal complies with §73.1204 to all stations except second adjacent stations WMBW Fac. ID 66021 and WYBK Fac. ID 65216. A second adjacent waiver request demonstrating that no interference would occur is included in this exhibit.**

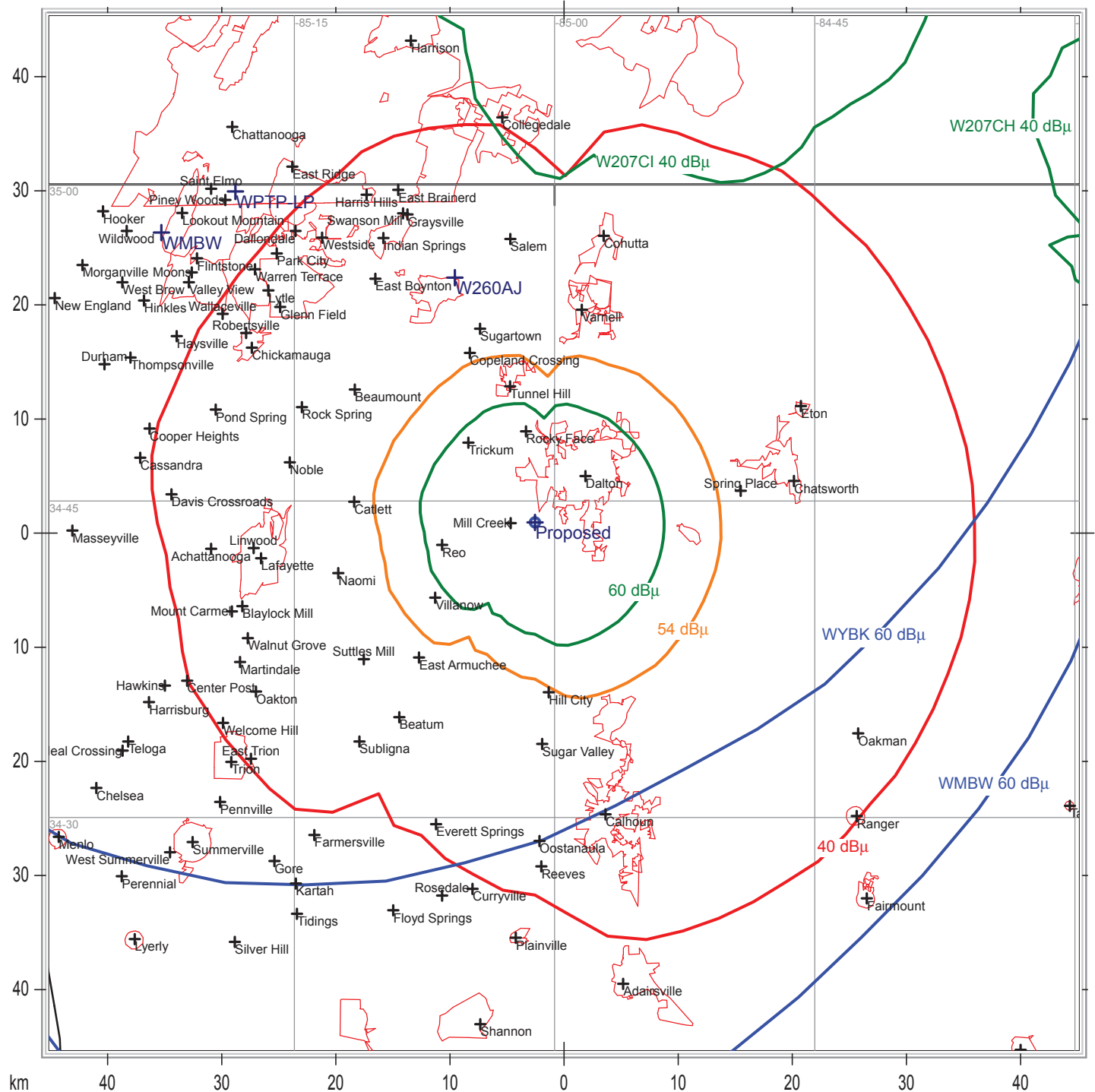
**Terrain Data is calculated using USGS 3 ARC second Data.**

**Page 3**  
**LifeTalk Radio, Inc.**  
**Interference Area**  
**Dalton, Georgia**

The proposed translator will broadcast on 207, which is within the 60 dBu contour of second adjacent station WMBW on channel 205 and WYBK on channel 209. The WMBW interfering contour at the translator site is 79.8 dBu F(50,50) and the WYBK interfering contour at the translator site is 70.7 dBu F(50,50). Using the ratio of 100:1 (translator to WMBW & WYBK) on the second adjacent channel, the population within the proposed translator 119.8 dBu and 110.7 dBu contour is zero. Applying the antenna manufacturer's vertical radiation pattern the area of interference is able to be more accurately calculated geometrically than just by using the free space equation alone. This particular antenna is a single bay SWR FM1-1. It was determined from the manufacturer's vertical plan that 45 degrees below horizontal the interference area would reach down 33.9 meters and extend 33.9 meters horizontally. We have proposed the antenna radiation center will be 46 meters above ground with an Effective Radiated Power of 10 watts. There are no occupied structures or elevated roadways within the interference area of the translator.

Therefore, the application is in compliance with the following: §74.1204 (d) "The provisions of this section concerning prohibited overlap will not apply where the area of such overlap lies entirely over water. In addition, an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable."

### Allocation Study of Proposed on 89.3 MHz



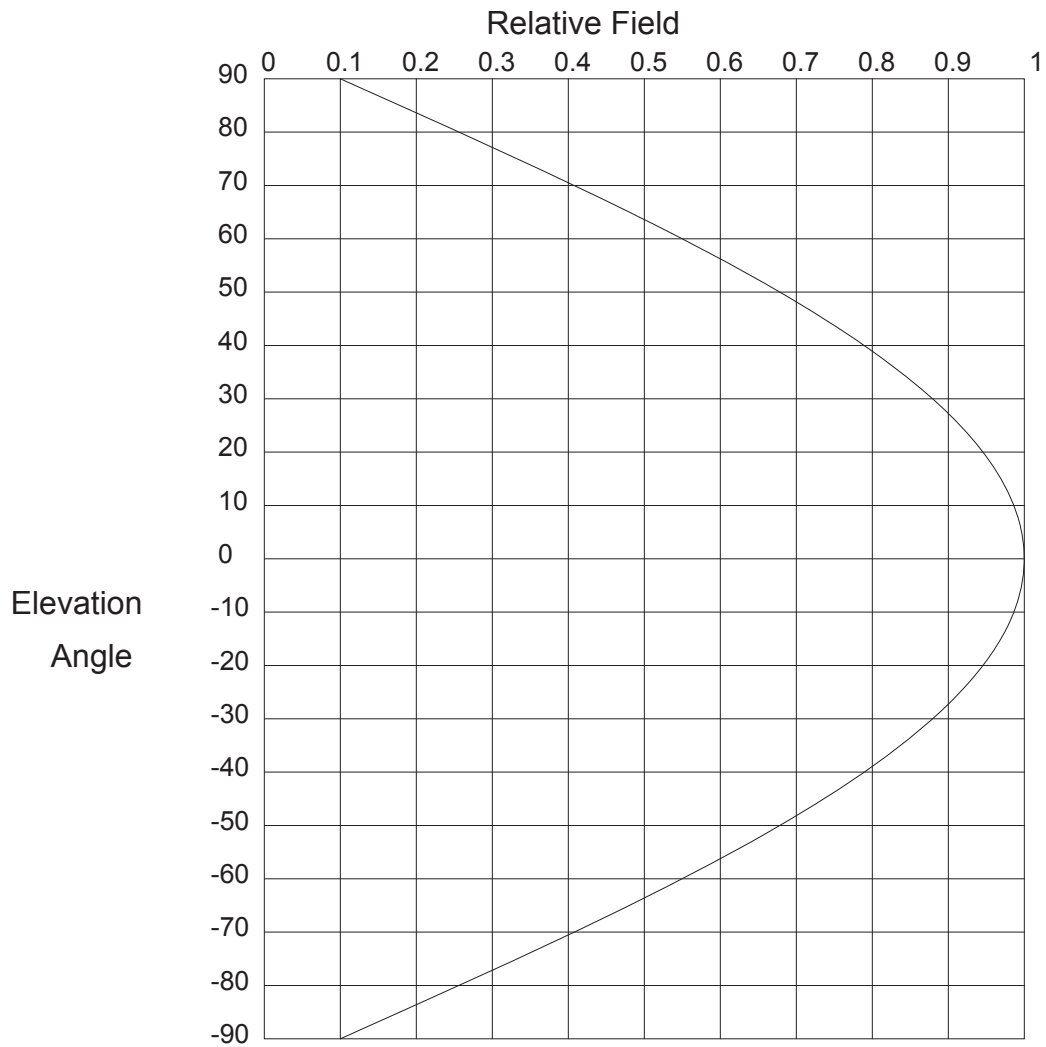
**Figure 1**  
**LifeTalk Radio, Inc.**  
**Allocation Study 91.3 MHz**  
**Dalton, Georgia**

 State Borders
  City Borders
  Lat/Lon Grid

**Figure 2**  
**Minimum Ground Clearance**

Depression Angle Below Horizontal	Antenna Relative Field	ERP (Watts)	Distance to interfering Contour from Antenna (m)	Horizontal Distance of Interfering contour from tower (m)	Vertical Clearance of Interfering contour above TGL (m)
5	0.997	9.9	64	63.8	40.4
10	0.986	9.7	64	63.0	34.9
15	0.969	9.4	63	60.9	29.7
20	0.946	8.9	61	57.3	25.1
25	0.916	8.4	59	53.5	21.1
30	0.879	7.7	57	49.4	17.5
35	0.837	7.0	54	44.2	15.0
40	0.789	6.2	51	39.1	13.2
45	0.736	5.4	48	33.9	12.1
50	0.679	4.6	44	28.3	12.3
55	0.616	3.8	40	22.9	13.2
60	0.550	3.0	35	17.5	15.7
65	0.480	2.3	31	13.1	17.9
70	0.408	1.7	27	9.2	20.6
75	0.333	1.1	21	5.4	25.7
80	0.256	0.7	17	3.0	29.3
85	0.178	0.32	11	1.0	35.0
90	0.100	0.10	6	0.0	40.0
Minimum Clearance above TGL:					12.1 m

**Figure 3 Page 1**  
**SWR FM1 Elevation Pattern**



**Elevation Pattern**

**Systems With Reliability**

Scale: Linear

Units: Field, Relative

CLIENT: *Sterling Communications*

Date: 3/31/2023

ANTENNA TYPE: FM1

FREQUENCY: 89.3 MHz

PATTERN POL.: Circular

DIRECTIVITY(Peak): 0.883/-0.539 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 0.883/-0.539 dBd

Null Fill(s)(%) : 0, 0, 0

# Figure 3 Page 2

## SWR FM1 Elevation Pattern

### Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
90.0	.10 (-20)	52.0	.654 (-3.687)	14.0	.973 (-0.235 )
89.0	.116 (-18.733)	51.0	.666 (-3.525)	13.0	.977 (-0.203 )
88.0	.131 (-17.627)	50.0	.679 (-3.369)	12.0	.98 (-0.173 )
87.0	.147 (-16.648)	49.0	.69 (-3.217)	11.0	.983 (-0.145 )
86.0	.163 (-15.768)	48.0	.702 (-3.071)	10.0	.986 (-0.12 )
85.0	.178 (-14.97)	47.0	.714 (-2.928)	9.8	.987 (-0.115 )
84.0	.194 (-14.241)	46.0	.725 (-2.791)	9.6	.987 (-0.11 )
83.0	.21 (-13.569)	45.0	.736 (-2.658)	9.4	.988 (-0.106 )
82.0	.225 (-12.946)	44.0	.747 (-2.529)	9.2	.988 (-0.101 )
81.0	.241 (-12.367)	43.0	.758 (-2.404)	9.0	.989 (-0.097 )
80.0	.256 (-11.826)	42.0	.769 (-2.283)	8.8	.989 (-0.093 )
79.0	.272 (-11.317)	41.0	.779 (-2.167)	8.6	.99 (-0.088 )
78.0	.287 (-10.839)	40.0	.789 (-2.054)	8.4	.99 (-0.084 )
77.0	.302 (-10.387)	39.0	.799 (-1.944)	8.2	.991 (-0.08 )
76.0	.318 (-9.959)	38.0	.809 (-1.839)	8.0	.991 (-0.076 )
75.0	.333 (-9.553)	37.0	.819 (-1.737)	7.8	.992 (-0.073 )
74.0	.348 (-9.167)	36.0	.828 (-1.638)	7.6	.992 (-0.069 )
73.0	.363 (-8.799)	35.0	.837 (-1.543)	7.4	.993 (-0.065 )
72.0	.378 (-8.448)	34.0	.846 (-1.451)	7.2	.993 (-0.062 )
71.0	.393 (-8.112)	33.0	.855 (-1.363)	7.0	.993 (-0.058 )
70.0	.408 (-7.791)	32.0	.863 (-1.277)	6.8	.994 (-0.055 )
69.0	.423 (-7.483)	31.0	.871 (-1.195)	6.6	.994 (-0.052 )
68.0	.437 (-7.187)	30.0	.879 (-1.116)	6.4	.994 (-0.049 )
67.0	.452 (-6.904)	29.0	.887 (-1.04)	6.2	.995 (-0.046 )
66.0	.466 (-6.631)	28.0	.895 (-0.967)	6.0	.995 (-0.043 )
65.0	.48 (-6.369)	27.0	.902 (-0.897)	5.8	.995 (-0.04 )
64.0	.495 (-6.116)	26.0	.909 (-0.83)	5.6	.996 (-0.037 )
63.0	.509 (-5.873)	25.0	.916 (-0.765)	5.4	.996 (-0.035 )
62.0	.523 (-5.638)	24.0	.922 (-0.704)	5.2	.996 (-0.032 )
61.0	.536 (-5.411)	23.0	.928 (-0.645)	5.0	.997 (-0.03 )
60.0	.55 (-5.193)	22.0	.934 (-0.589)	4.8	.997 (-0.027 )
59.0	.564 (-4.982)	21.0	.94 (-0.535)	4.6	.997 (-0.025 )
58.0	.577 (-4.778)	20.0	.946 (-0.485)	4.4	.997 (-0.023 )
57.0	.59 (-4.58)	19.0	.951 (-0.437)	4.2	.998 (-0.021 )
56.0	.603 (-4.39)	18.0	.956 (-0.391)	4.0	.998 (-0.019 )
55.0	.616 (-4.205)	17.0	.961 (-0.348)	3.8	.998 (-0.017 )
54.0	.629 (-4.027)	16.0	.965 (-0.308)	3.6	.998 (-0.015 )
53.0	.642 (-3.854)	15.0	.969 (-0.271)	3.4	.998 (-0.014 )

### Systems With Reliability

Page 1 of 3

CLIENT: *Sterling Communications*

Date: 3/31/2023

ANTENNA TYPE: FM1

FREQUENCY: 89.3 MHz

PATTERN POL.: Circular

DIRECTIVITY(Peak): 0.883/-0.539 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 0.883/-0.539 dBd

Null Fill(s)(%) : 0, 0, 0

# Figure 3 Page 3

## SWR FM1 Elevation Pattern

### Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
3.2	.999 (-0.012)	-4.4	.997 (-0.023)	-12.0	.98 (-0.173 )
3.0	.999 (-0.011)	-4.6	.997 (-0.025)	-12.2	.98 (-0.178 )
2.8	.999 (-0.009)	-4.8	.997 (-0.027)	-12.4	.979 (-0.184 )
2.6	.999 (-0.008)	-5.0	.997 (-0.03)	-12.6	.978 (-0.19 )
2.4	.999 (-0.007)	-5.2	.996 (-0.032)	-12.8	.978 (-0.196 )
2.2	.999 (-0.006)	-5.4	.996 (-0.035)	-13.0	.977 (-0.203 )
2.0	.999 (-0.005)	-5.6	.996 (-0.037)	-13.2	.976 (-0.209 )
1.8	1.00 (-0.004)	-5.8	.995 (-0.04)	-13.4	.975 (-0.215 )
1.6	1.00 (-0.003)	-6.0	.995 (-0.043)	-13.6	.975 (-0.222 )
1.4	1.00 (-0.002)	-6.2	.995 (-0.046)	-13.8	.974 (-0.229 )
1.2	1.00 (-0.002)	-6.4	.994 (-0.049)	-14.0	.973 (-0.235 )
1.0	1.00 (-0.001)	-6.6	.994 (-0.052)	-14.2	.973 (-0.242 )
.8	1.00 (-0.001)	-6.8	.994 (-0.055)	-14.4	.972 (-0.249 )
.6	1.00 (0)	-7.0	.993 (-0.058)	-14.6	.971 (-0.256 )
.4	1.00 (0)	-7.2	.993 (-0.062)	-14.8	.97 (-0.263 )
.2	1.00 (0)	-7.4	.993 (-0.065)	-15.0	.969 (-0.271 )
.0	1.00 (0)	-7.6	.992 (-0.069)	-15.2	.969 (-0.278 )
-.2	1.00 (0)	-7.8	.992 (-0.073)	-15.4	.968 (-0.285 )
-.4	1.00 (0)	-8.0	.991 (-0.076)	-15.6	.967 (-0.293 )
-.6	1.00 (0)	-8.2	.991 (-0.08)	-15.8	.966 (-0.3 )
-.8	1.00 (-0.001)	-8.4	.99 (-0.084)	-16.0	.965 (-0.308 )
-1.0	1.00 (-0.001)	-8.6	.99 (-0.088)	-16.2	.964 (-0.316 )
-1.2	1.00 (-0.002)	-8.8	.989 (-0.093)	-16.4	.963 (-0.324 )
-1.4	1.00 (-0.002)	-9.0	.989 (-0.097)	-16.6	.962 (-0.332 )
-1.6	1.00 (-0.003)	-9.2	.988 (-0.101)	-16.8	.962 (-0.34 )
-1.8	1.00 (-0.004)	-9.4	.988 (-0.106)	-17.0	.961 (-0.348 )
-2.0	.999 (-0.005)	-9.6	.987 (-0.11)	-17.2	.96 (-0.357 )
-2.2	.999 (-0.006)	-9.8	.987 (-0.115)	-17.4	.959 (-0.365 )
-2.4	.999 (-0.007)	-10.0	.986 (-0.12)	-17.6	.958 (-0.374 )
-2.6	.999 (-0.008)	-10.2	.986 (-0.124)	-17.8	.957 (-0.383 )
-2.8	.999 (-0.009)	-10.4	.985 (-0.129)	-18.0	.956 (-0.391 )
-3.0	.999 (-0.011)	-10.6	.985 (-0.134)	-18.2	.955 (-0.4 )
-3.2	.999 (-0.012)	-10.8	.984 (-0.14)	-18.4	.954 (-0.409 )
-3.4	.998 (-0.014)	-11.0	.983 (-0.145)	-18.6	.953 (-0.418 )
-3.6	.998 (-0.015)	-11.2	.983 (-0.15)	-18.8	.952 (-0.427 )
-3.8	.998 (-0.017)	-11.4	.982 (-0.156)	-19.0	.951 (-0.437 )
-4.0	.998 (-0.019)	-11.6	.982 (-0.161)	-19.2	.95 (-0.446 )
-4.2	.998 (-0.021)	-11.8	.981 (-0.167)	-19.4	.949 (-0.456 )

### Systems With Reliability

Page 2 of 3

CLIENT: *Sterling Communications*

Date: 3/31/2023

ANTENNA TYPE: FM1

FREQUENCY: 89.3 MHz

PATTERN POL.: Circular

DIRECTIVITY(Peak): 0.883/-0.539 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 0.883/-0.539 dBd

Null Fill(s)(%) : 0, 0, 0



# Figure 3 Page 4

## SWR FM1 Elevation Pattern

### Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
-19.6	.948 (-0.465)	-27.2	.90 (-0.911)	-54.0	.629 (-4.027 )
-19.8	.947 (-0.475)	-27.4	.899 (-0.924)	-55.0	.616 (-4.205 )
-20.0	.946 (-0.485)	-27.6	.898 (-0.939)	-56.0	.603 (-4.39 )
-20.2	.945 (-0.495)	-27.8	.896 (-0.953)	-57.0	.59 (-4.58 )
-20.4	.944 (-0.505)	-28.0	.895 (-0.967)	-58.0	.577 (-4.778 )
-20.6	.942 (-0.515)	-28.2	.893 (-0.981)	-59.0	.564 (-4.982 )
-20.8	.941 (-0.525)	-28.4	.892 (-0.996)	-60.0	.55 (-5.193 )
-21.0	.94 (-0.535)	-28.6	.89 (-1.01)	-61.0	.536 (-5.411 )
-21.2	.939 (-0.546)	-28.8	.889 (-1.025)	-62.0	.523 (-5.638 )
-21.4	.938 (-0.556)	-29.0	.887 (-1.04)	-63.0	.509 (-5.873 )
-21.6	.937 (-0.567)	-29.2	.886 (-1.055)	-64.0	.495 (-6.116 )
-21.8	.936 (-0.578)	-29.4	.884 (-1.07)	-65.0	.48 (-6.369 )
-22.0	.934 (-0.589)	-29.6	.883 (-1.085)	-66.0	.466 (-6.631 )
-22.2	.933 (-0.6)	-29.8	.881 (-1.101)	-67.0	.452 (-6.904 )
-22.4	.932 (-0.611)	-30.0	.879 (-1.116)	-68.0	.437 (-7.187 )
-22.6	.931 (-0.622)	-31.0	.871 (-1.195)	-69.0	.423 (-7.483 )
-22.8	.93 (-0.633)	-32.0	.863 (-1.277)	-70.0	.408 (-7.791 )
-23.0	.928 (-0.645)	-33.0	.855 (-1.363)	-71.0	.393 (-8.112 )
-23.2	.927 (-0.656)	-34.0	.846 (-1.451)	-72.0	.378 (-8.448 )
-23.4	.926 (-0.668)	-35.0	.837 (-1.543)	-73.0	.363 (-8.799 )
-23.6	.925 (-0.68)	-36.0	.828 (-1.638)	-74.0	.348 (-9.167 )
-23.8	.923 (-0.692)	-37.0	.819 (-1.737)	-75.0	.333 (-9.553 )
-24.0	.922 (-0.704)	-38.0	.809 (-1.839)	-76.0	.318 (-9.959 )
-24.2	.921 (-0.716)	-39.0	.799 (-1.944)	-77.0	.302 (-10.387 )
-24.4	.92 (-0.728)	-40.0	.789 (-2.054)	-78.0	.287 (-10.839 )
-24.6	.918 (-0.74)	-41.0	.779 (-2.167)	-79.0	.272 (-11.317 )
-24.8	.917 (-0.753)	-42.0	.769 (-2.283)	-80.0	.256 (-11.826 )
-25.0	.916 (-0.765)	-43.0	.758 (-2.404)	-81.0	.241 (-12.367 )
-25.2	.914 (-0.778)	-44.0	.747 (-2.529)	-82.0	.225 (-12.946 )
-25.4	.913 (-0.791)	-45.0	.736 (-2.658)	-83.0	.21 (-13.569 )
-25.6	.912 (-0.803)	-46.0	.725 (-2.791)	-84.0	.194 (-14.241 )
-25.8	.91 (-0.816)	-47.0	.714 (-2.928)	-85.0	.178 (-14.97 )
-26.0	.909 (-0.83)	-48.0	.702 (-3.071)	-86.0	.163 (-15.768 )
-26.2	.908 (-0.843)	-49.0	.69 (-3.217)	-87.0	.147 (-16.648 )
-26.4	.906 (-0.856)	-50.0	.679 (-3.369)	-88.0	.131 (-17.627 )
-26.6	.905 (-0.87)	-51.0	.666 (-3.525)	-89.0	.116 (-18.733 )
-26.8	.903 (-0.883)	-52.0	.654 (-3.687)	-90.0	.10 (-20 )
-27.0	.902 (-0.897)	-53.0	.642 (-3.854)	90.0	.00 (-50 )

### Systems With Reliability

Page 3 of 3

CLIENT: *Sterling Communications*

Date: 3/31/2023

ANTENNA TYPE: FM1

FREQUENCY: 89.3 MHz

PATTERN POL.: Circular

DIRECTIVITY(Peak): 0.883/-0.539 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 0.883/-0.539 dBd

Null Fill(s)(%) : 0, 0, 0



**Figure 4**  
**Aerial Photo of the 33.9 Meter Vicinity Surrounding the Proposed Tower Site**

