

**Page 1**  
**Ritmo Broadcasting, LLC**  
**Identification of Facilities**  
**Burlington, NJ**

CALL FORMAT LATITUDE	ST	CITY ARN LONGITUDE	FREQ OWNER HAAT:m AMSL:m	CHN	CL	ERP	STAT
Proposed	NJ	BURLINGTON	92.90000		D	250.00	APP
Unknown or New	CP	BLFT-20190521	AAP Ritmo Broadcasting, LLC				
40-11-21.8	N	74-50-47.6 W	115.413 149.000				
<b>W225DJ</b>	NJ	BURLINGTON	92.90000		D	240.00	LIC
Unknown or New	CP	BLFT-20190521	AAP Ritmo Broadcasting, LLC				
40-04-58.2	N	74-47-37.2 W	35.068 64.000				
WMMR	PA	PHILADELPHIA	93.30000		B	16500.00	LIC
Unknown or New	CP	BMLH-20061205	ADU BEASLEY MEDIA GROUP LICENSES, LLC				
39-57-09.4	N	75-10-03.6 W	253.886 292.000				
WXTU	PA	PHILADELPHIA	92.50000		B	15000.00	LIC
Unknown or New	CP	BLH-20031017	ACG BEASLEY MEDIA GROUP LICENSES, LLC				
40-02-19.4	N	75-14-12.6 W	257.171 343.000				
WRGU-LP	PA	PHILADELPHIA	92.90000		LP100	15.00	LIC
Unknown or New	CP	BLL-20180119	AAH GERMANTOWN UNITED COMMUNITY DEVELOPMENT CORPORATION				
40-02-07.4	N	75-10-29.6 W	62.013 129.000				
WGGT-LP	PA	PHILADELPHIA	92.90000		LP100	15.00	LIC
Unknown or New	CP	BLL-20180119	AAB G-TOWN RADIO				
40-02-07.4	N	75-10-29.6 W	53.573 129.000				
WRLG-LP	PA	PHILADELPHIA	92.90000		LP100	15.00	LIC
Unknown or New	CP	BLL-20180119	AAI GERMANTOWN LIFE ENRICHMENT CENTER				
40-02-07.4	N	75-10-29.6 W	60.687 129.000				
WPAT-FM	NJ	PATERSON	93.10000		B	5400.00	LIC
Unknown or New	CP	BLH-19820223	AR WPAT LICENSING, INC.				
40-42-43.4	N	74-00-47.5 W	425.533 443.000				
WOOM-LP	PA	PHILADELPHIA	92.90000		LP100	100.00	LIC
Unknown or New	CP	BLL-20180109	ABU SOUTH PHILADELPHIA RAINBOW COMMITTEE COMMUNITY CENTER, INC.				
39-55-35.0	N	75-10-27.8 W	-0.253 32.000				
WEMK-LP	PA	UPPER GWYNEDD	92.90000		LP100	27.00	LIC
Unknown or New	CP	BLL-20170315	AAR COUNTY OF MONTGOMERY				
40-15-07.3	N	75-16-17.6 W	29.258 145.000				
W224AS	NJ	WASHINGTON	92.70000		D	150.00	LIC
Unknown or New	CP	BLFT-20130627	AAU WRNJ RADIO, INC.				
40-48-28.3	N	74-57-30.6 W	170.633 371.000				

**Page 2**  
**Ritmo Broadcasting, LLC**  
**Identification of Facilities**  
**Burlington, NJ**

WPAT-FM	NJ	PATERSON	93.10000	B	4800.00	APP
Unknown or New CP 0000143151 WPAT LICENSING, INC.						
40-44-54.0	N	73-59-09.0 W	412.191	428.500		
WMGS	PA	WILKES-BARRE	92.90000	B	5300.00	LIC
Unknown or New CP BLH-19990506KB RADIO LICENSE HOLDING CBC, LLC						
41-10-56.3	N	75-52-20.7 W	343.628	801.000		
WZML-LP	PA	BRYN MAWR	92.90000	LP100	5.00	LIC
Unknown or New CP BLL-20160823AAE THE INGE DAVIDSON FOUNDATION						
40-05-17.3	N	75-28-47.8 W	119.891	231.000		
W225BV	NJ	POMONA	92.90000	D	80.00	LIC
Unknown or New CP BLFT-20150814ACF WYRS BROADCASTING						
39-28-34.4	N	74-32-18.6 W	46.360	54.000		
W224CW	NJ	FRANKLIN TOWNSHIP	92.70000	D	105.00	LIC
Unknown or New CP BLFT-20160517ABO RAHUL WALIA						
40-28-45.0	N	74-28-28.9 W	144.220	181.000		
WNYL	NY	NEW YORK	92.30000	B	6000.00	LIC
Unknown or New CP BLH-19940204KF ENTERCOM LICENSE, LLC						
40-44-54.3	N	73-59-08.5 W	412.839	429.000		
WOBM-FM	NJ	TOMS RIVER	92.70000	A	1480.00	LIC
Unknown or New CP BMLH-20160722AAC Townsquare License, LLC						
39-52-31.4	N	74-09-55.8 W	146.428	154.000		
WOBM-FM	NJ	TOMS RIVER	92.70000	A	1600.00	CP MOD
Unknown or New CP BPH-20181203AAQ Townsquare License, LLC						
39-52-31.4	N	74-09-55.8 W	141.861	149.000		
W225CF	PA	READING	92.90000	D	99.00	LIC
Unknown or New CP BLFT-20170424AAA AMERICAN FM ASSOCIATES, INC.						
40-21-15.3	N	75-53-53.7 W	224.901	372.000		
WRDX	DE	SMYRNA	92.90000	A	1700.00	LIC
Unknown or New CP BLH-19931203KC IHM LICENSES, LLC						
39-12-03.4	N	75-33-53.7 W	112.851	123.000		
W226AA	PA	EASTON	93.10000	D	150.00	LIC
Unknown or New CP BLFT-19921120TA MERCER COUNTY COMMUNITY COLLEGE						
40-41-53.3	N	75-12-28.6 W	-5.104	132.000		
W224AU	PA	ALLENTOWN	92.70000	D	7.00	LIC
Unknown or New CP BLFT-20160209ABL MERCER COUNTY COMMUNITY COLLEGE						
40-34-18.1	N	75-25-47.1 W	223.503	384.000		

**Page 3**  
**Ritmo Broadcasting, LLC**  
**Identification of Facilities**  
**Burlington, NJ**

WNUZ-LP	PA	GAP	92.90000	LP100	100.00	LIC
Unknown or New CP BLL-20150615AAI WLRI INCORPORATED						
39-57-23.2	N	75-59-48.9 W	-12.499	166.200		
W228DY	NJ	NEW BRUNSWICK	93.50000	D	250.00	CP
Unknown or New CP BNPFT-20171215ABC BEASLEY MEDIA GROUP LICENSES, LLC						
40-28-37.4	N	74-29-31.6 W	131.390	169.000		
WXGN-LP	NJ	OCEAN CITY	92.70000	LP100	94.00	LIC
Unknown or New CP BLL-20031223AAA JOY BROADCASTING, INC.						
39-16-47.4	N	74-34-28.5 W	28.415	32.000		
WEHM	NY	MANORVILLE	92.90000	A	3100.00	LIC
Unknown or New CP BLH-20080610ACO LRS RADIO, LLC						
40-51-18.4	N	72-46-09.4 W	140.767	157.000		
WQBU-FM2	NY	BROOKLYN	92.70000	D	1200.00	LIC
Unknown or New CP BLFTB-20120411AAE UNIVISION RADIO STATIONS GROUP, INC.						
40-40-01.3	N	73-47-54.4 W	36.007	49.000		
WSBG	PA	STROUDSBURG	93.50000	A	430.00	LIC
Unknown or New CP BLH-20180406AAZ SOUTHERN BELLE, LLC						
40-56-53.3	N	75-09-36.6 W	209.534	473.000		
WQBU-FM	NY	GARDEN CITY	92.70000	A	2000.00	LIC
Unknown or New CP BLH-20000607ACM UNIVISION RADIO STATIONS GROUP, INC.						
40-45-26.4	N	73-42-50.5 W	157.846	176.000		
WQBU-FM1	NY	NEW YORK	92.70000	D	99.00	LIC
Unknown or New CP BLFTB-20180111AEO UNIVISION RADIO STATIONS GROUP, INC.						
40-45-14.3	N	73-59-57.5 W	73.706	91.000		
WPOC	MD	BALTIMORE	93.10000	B	16000.00	LIC
Unknown or New CP BLH-20180312AAT IHM LICENSES, LLC						
39-17-14.0	N	76-45-16.0 W	265.109	363.000		
W222BV	NJ	HARMONY TOWNSHIP	92.30000	D	10.00	LIC
Unknown or New CP BLFT-20161018ABE PENN JERSEY EDUCATIONAL RADIO CORPORATION						
40-46-14.3	N	75-03-50.6 W	228.188	405.000		
WEZW	NJ	WILDWOOD CREST	93.10000	A	4100.00	LIC
Unknown or New CP BLH-20071030ABR EQUITY COMMUNICATIONS, L.P.						
38-59-34.4	N	74-48-46.6 W	63.712	69.000		
WERQ-FM	MD	BALTIMORE	92.30000	B	37000.00	LIC
Unknown or New CP BLH-20130830ACP RADIO ONE LICENSES, LLC						
39-20-18.4	N	76-39-58.9 W	161.643	269.000		

**Page 4**  
**Ritmo Broadcasting, LLC**  
**Identification of Facilities**  
**Burlington, NJ**

WBPM NY SAUGERTIES 92.90000 A 6000.00 LIC  
Unknown or New CP BLH-19991025AAH 6 JOHNSON ROAD LICENSES, INC.  
41-59-20.3 N 74-01-06.5 W 47.541 214.000

WRRV NY MIDDLETOWN 92.70000 A 6000.00 LIC  
Unknown or New CP BLH-20010326AAD Townsquare License, LLC  
41-27-25.3 N 74-26-22.6 W 24.027 281.000

WGMD DE REHOBOTH BEACH 92.70000 A 2600.00 LIC  
Unknown or New CP BLH-20070802ABF RESORT BROADCASTING COMPANY, LLC  
38-42-14.8 N 75-11-59.3 W 131.695 135.600

W225BC NY ENDICOTT 92.90000 D 75.00 LIC  
Unknown or New CP BLFT-20180111AER EQUINOX BROADCASTING CORP.  
42-03-22.3 N 75-56-37.7 W 161.835 611.000

WVIP NY NEW ROCHELLE 93.50000 A 1750.00 LIC  
Unknown or New CP BLH-20100706IHW HUDSON-WESTCHESTER RADIO, INC.  
40-52-48.4 N 73-52-38.5 W 129.683 156.000

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

**Page 5**  
**Ritmo Broadcasting, LLC**  
**Identification of Facilities**  
**Burlington, NJ**

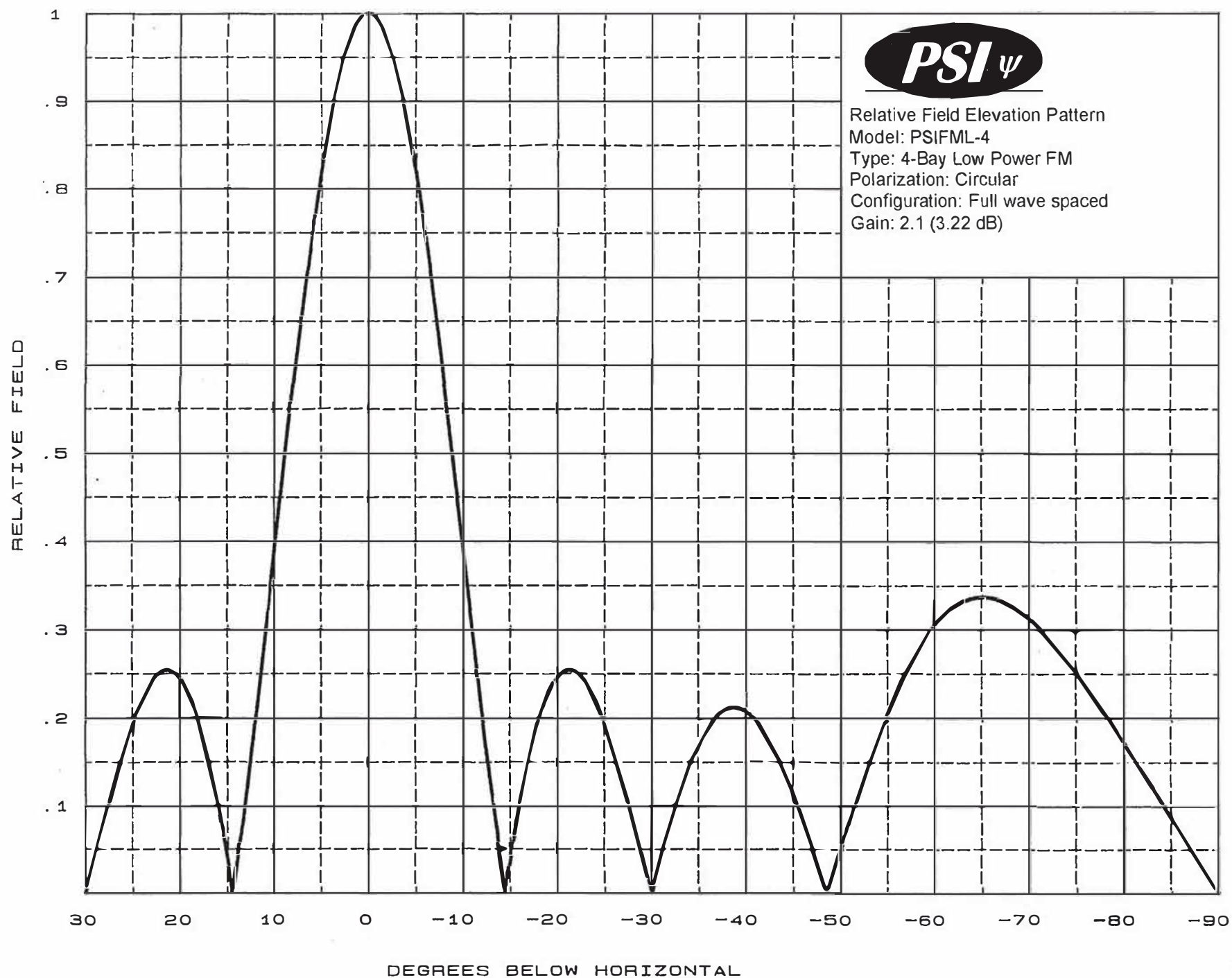
The proposed translator will broadcast on 225, which is within the 60 dBu contour of second adjacent stations WXTU on channel 223 and WMMR on channel 227. The WXTU interfering contour at the translator site is 65.4 dBu F(50,50) and the WMMR interfering contour at the translator site is 67.4 dBu F(50,50). Using the ratio of 100:1 (translator to WXTU and WMMR) on the second adjacent channel, the population within the proposed translator 104.5 and 107.4 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 four bay PSI FML. It was determined from the manufacturer's vertical plan that from 60 - 75 degrees below horizontal the interference area would reach the ground and extend 90.5 meters horizontally. We have proposed the antenna radiation center will be 114 meters above ground with an Effective Radiated Power of 250 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."



**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	0.819	167.7	488	486.1	71.5
10	0.388	37.6	231	227.5	73.9
15	0.037	0.3	21	20.3	108.6
20	0.245	15.0	146	137.2	64.1
25	0.193	9.3	115	104.2	65.4
30	0.001	0.0	0	0.0	114.0
35	0.168	7.1	100	81.9	56.6
40	0.207	10.7	123	94.2	34.9
45	0.114	3.2	67	47.4	66.6
50	0.048	0.6	29	18.6	91.8
55	0.204	10.4	131	75.1	6.7
60	0.304	23.1	181	90.5	-42.8
65	0.337	28.4	201	84.9	68.2
70	0.312	24.3	186	63.6	-60.8
75	0.252	15.9	150	38.8	-30.9
80	0.173	7.5	103	17.9	12.6
85	0.087	1.9	52	4.5	62.2
90	0.001	0.0	0	0.0	114.0
Minimum Clearance above TGL:					12.7







# **Propagation Systems Inc.**

Elevation Pattern Tabulation

Antenna: PSIFML-4 Special

Bay spacing: fullwave

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-90.0	0.001	-60.000	-50.0	0.048	-26.315	-10.0	0.388	-8.216
-89.0	0.017	-35.177	-49.0	0.014	-36.928	-9.0	0.483	-6.326
-88.0	0.035	-29.156	-48.0	0.020	-34.179	-8.0	0.575	-4.804
-87.0	0.052	-25.634	-47.0	0.053	-25.584	-7.0	0.663	-3.563
-86.0	0.070	-23.136	-46.0	0.084	-21.489	-6.0	0.745	-2.553
-85.0	0.087	-21.198	-45.0	0.114	-18.890	-5.0	0.819	-1.738
-84.0	0.104	-19.626	-44.0	0.140	-17.049	-4.0	0.882	-1.095
-83.0	0.122	-18.297	-43.0	0.164	-15.714	-3.0	0.932	-0.609
-82.0	0.139	-17.153	-42.0	0.183	-14.750	-2.0	0.970	-0.269
-81.0	0.156	-16.151	-41.0	0.198	-14.085	-1.0	0.992	-0.067
-80.0	0.173	-15.260	-40.0	0.207	-13.676	0.0	1.000	0.000
-79.0	0.189	-14.460	-39.0	0.211	-13.512	1.0	0.992	-0.067
-78.0	0.205	-13.746	-38.0	0.209	-13.587	2.0	0.970	-0.269
-77.0	0.221	-13.104	-37.0	0.202	-13.914	3.0	0.932	-0.609
-76.0	0.237	-12.517	-36.0	0.188	-14.529	4.0	0.882	-1.094
-75.0	0.252	-11.989	-35.0	0.168	-15.492	5.0	0.819	-1.737
-74.0	0.266	-11.515	-34.0	0.143	-16.901	6.0	0.745	-2.552
-73.0	0.279	-11.095	-33.0	0.113	-18.959	7.0	0.664	-3.561
-72.0	0.291	-10.720	-32.0	0.078	-22.121	8.0	0.575	-4.802
-71.0	0.302	-10.392	-31.0	0.040	-27.861	9.0	0.483	-6.323
-70.0	0.312	-10.114	-30.0	0.001	-60.000	10.0	0.388	-8.213
-69.0	0.321	-9.881	-29.0	0.041	-27.700	11.0	0.294	-10.621
-68.0	0.327	-9.698	-28.0	0.083	-21.647	12.0	0.203	-13.855
-67.0	0.332	-9.566	-27.0	0.123	-18.221	13.0	0.116	-18.718
-66.0	0.336	-9.483	-26.0	0.160	-15.926	14.0	0.035	-29.007
-65.0	0.337	-9.460	-25.0	0.193	-14.301	15.0	0.037	-28.679
-64.0	0.335	-9.495	-24.0	0.220	-13.164	16.0	0.100	-20.013
-63.0	0.331	-9.594	-23.0	0.240	-12.412	17.0	0.153	-16.322
-62.0	0.325	-9.758	-22.0	0.251	-12.010	18.0	0.195	-14.220
-61.0	0.316	-10.005	-21.0	0.253	-11.942	19.0	0.225	-12.951
-60.0	0.304	-10.336	-20.0	0.245	-12.233	20.0	0.245	-12.233
-59.0	0.290	-10.761	-19.0	0.225	-12.951	21.0	0.253	-11.942
-58.0	0.272	-11.300	-18.0	0.195	-14.213	22.0	0.251	-12.010
-57.0	0.252	-11.968	-17.0	0.153	-16.313	23.0	0.240	-12.412
-56.0	0.229	-12.794	-16.0	0.100	-20.000	24.0	0.220	-13.164
-55.0	0.204	-13.816	-15.0	0.037	-28.643	25.0	0.193	-14.301
-54.0	0.176	-15.087	-14.0	0.035	-29.044	26.0	0.160	-15.918
-53.0	0.146	-16.691	-13.0	0.116	-18.729	27.0	0.123	-18.221
-52.0	0.115	-18.797	-12.0	0.203	-13.862	28.0	0.083	-21.647
-51.0	0.082	-21.727	-11.0	0.294	-10.626	29.0	0.041	-27.700
						30.0	0.001	-60.000

file: FML 4-bay elevation tabulation

revision: A

Date: 1/28/08

**Figure 4**  
**Aerial Photo of the 90.5 Meter Vicinity Surrounding the Proposed Tower Site**





**Figure 5**  
**Quadrangle Map of the 41.1 meter Vicinity Surrounding the Proposed Tower Site**

