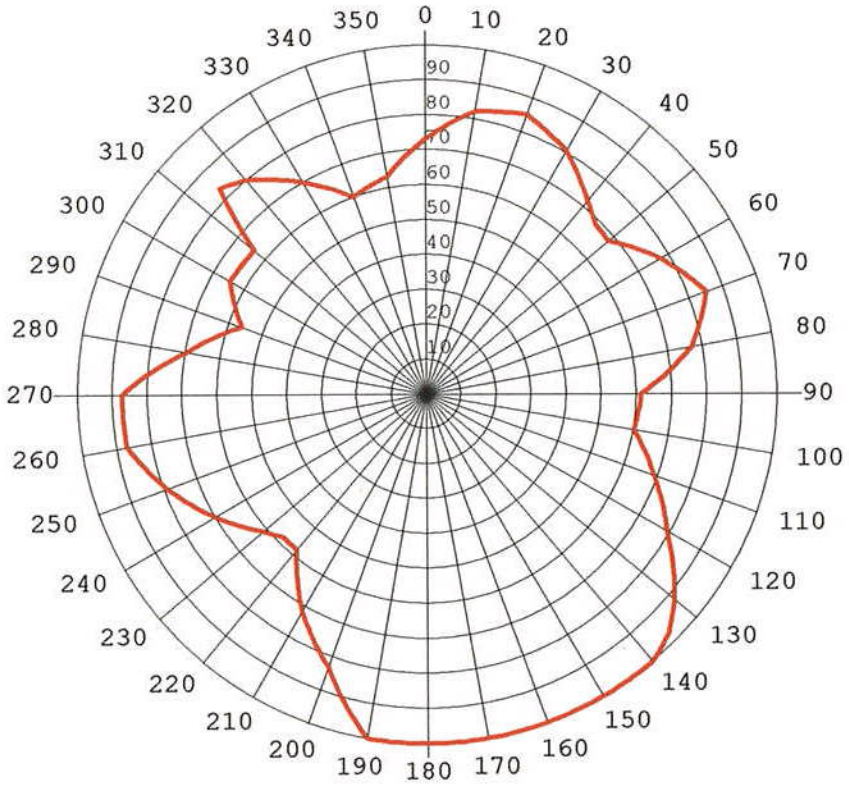
WXTU ENVELOPE PATTERN - BPH-20000630AEI



Azi	Rel	dBk	kW	dB
0	0.729	9.02	8.0	-2.75
10	0.820	10.04	10.1	-1.72
20	0.850	10.35	10.8	-1.41
30	0.804	9.87	9.7	-1.89
40	0.720	8.91	7.8	-2.85
50	0.680	8.41	6.9	-3.35
60	0.772	9.51	8.9	-2.25
70	0.850	10.35	10.8	-1.41
80	0.770	9.49	8.9	-2.27
90	0.613	7.51	5.6	-4.25
100	0.600	7.32	5.4	-4.44
110	0.690	8.54	7.1	-3.22
120	0.790	9.71	9.4	-2.05
130	0.920	11.04	12.7	-0.72
140	1.000	11.76	15.0	0.00
150	1.000	11.76	15.0	0.00
160	1.000	11.76	15.0	0.00
170	1.000	11.76	15.0	0.00

Azi	Rel	dBk	kW	dB
180	1.000	11.76	15.0	0.00
190	1.000	11.76	15.0	0.00
200	0.830	10.14	10.3	-1.62
210	0.716	8.86	7.7	-2.90
220	0.580	7.03	5.0	-4.73
230	0.610	7.47	5.6	-4.29
240	0.700	8.66	7.3	-3.10
250	0.790	9.71	9.4	-2.05
260	0.870	10.55	11.4	-1.21
270	0.871	10.56	11.4	-1.20
280	0.695	8.60	7.2	-3.16
290	0.560	6.72	4.7	-5.04
300	0.646	7.97	6.3	-3.80
310	0.640	7.88	6.1	-3.88
320	0.800	9.82	9.6	-1.94
330	0.700	8.66	7.3	-3.10
340	0.600	7.32	5.4	-4.44
350	0.630	7.75	6.0	-4.01

Rotation Angle = 0

Additional Points

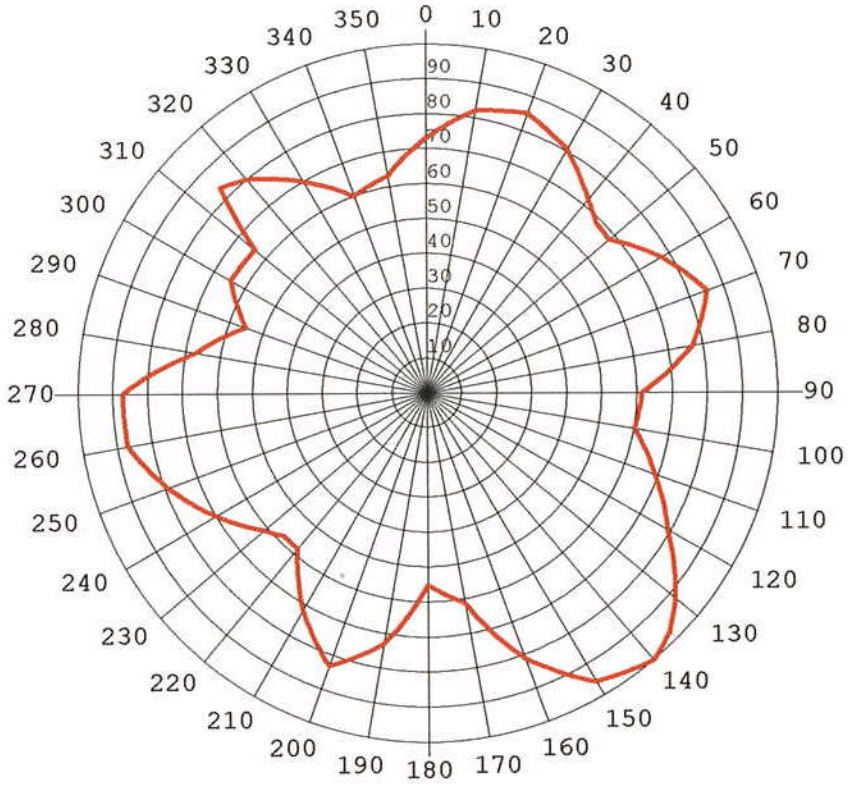
Azi	Rel	dBk	kW	dB
45	0.684	8.46	7.0	-3.30
135	0.972	11.51	14.2	-0.25

Azi	Rel	dBk	kW	dB
225	0.579	7.01	5.0	-4.75
315	0.832	10.16	10.4	-1.60

Horizontal relative field envelope pattern (10° radials),
as submitted in BPH-20000630AEI, with augmentations.

EXHIBIT B1

WXTU MEASURED PATTERN - BLH-19860325KC



Azi	Rel	dBk	kW	dB
0	0.729	9.16	8.2	-2.75
10	0.820	10.18	10.4	-1.72
20	0.850	10.49	11.2	-1.41
30	0.804	10.01	10.0	-1.89
40	0.720	9.05	8.0	-2.85
50	0.680	8.55	7.2	-3.35
60	0.772	9.66	9.2	-2.25
70	0.850	10.49	11.2	-1.41
80	0.770	9.63	9.2	-2.27
90	0.613	7.65	5.8	-4.25
100	0.600	7.47	5.6	-4.44
110	0.690	8.68	7.4	-3.22
120	0.790	9.86	9.7	-2.05
130	0.920	11.18	13.1	-0.72
140	1.000	11.90	15.5	0.00
150	0.955	11.50	14.1	-0.40
160	0.810	10.07	10.2	-1.83
170	0.610	7.61	5.8	-4.29

Azi	Rel	dBk	kW	dB
180	0.550	6.71	4.7	-5.19
190	0.730	9.17	8.3	-2.73
200	0.830	10.28	10.7	-1.62
210	0.716	9.00	7.9	-2.90
220	0.580	7.17	5.2	-4.73
230	0.610	7.61	5.8	-4.29
240	0.700	8.81	7.6	-3.10
250	0.790	9.86	9.7	-2.05
260	0.870	10.69	11.7	-1.21
270	0.871	10.70	11.8	-1.20
280	0.670	8.42	7.0	-3.48
290	0.550	6.71	4.7	-5.19
300	0.646	8.11	6.5	-3.80
310	0.640	8.03	6.3	-3.88
320	0.800	9.97	9.9	-1.94
330	0.700	8.81	7.6	-3.10
340	0.600	7.47	5.6	-4.44
350	0.630	7.89	6.2	-4.01

Rotation Angle = 0

Additional Points

Azi	Rel	dBk	kW	dB
45	0.684	8.60	7.3	-3.30
135	0.972	11.66	14.6	-0.25

Azi	Rel	dBk	kW	dB
225	0.579	7.16	5.2	-4.75
315	0.832	10.31	10.7	-1.60

Horizontal relative field measured pattern (10° radials),
as submitted in BLH-19860325KC & BPH-19831102AI,
with augmentations. Pattern from CDBS database.

EXHIBIT B2

APPENDIX A

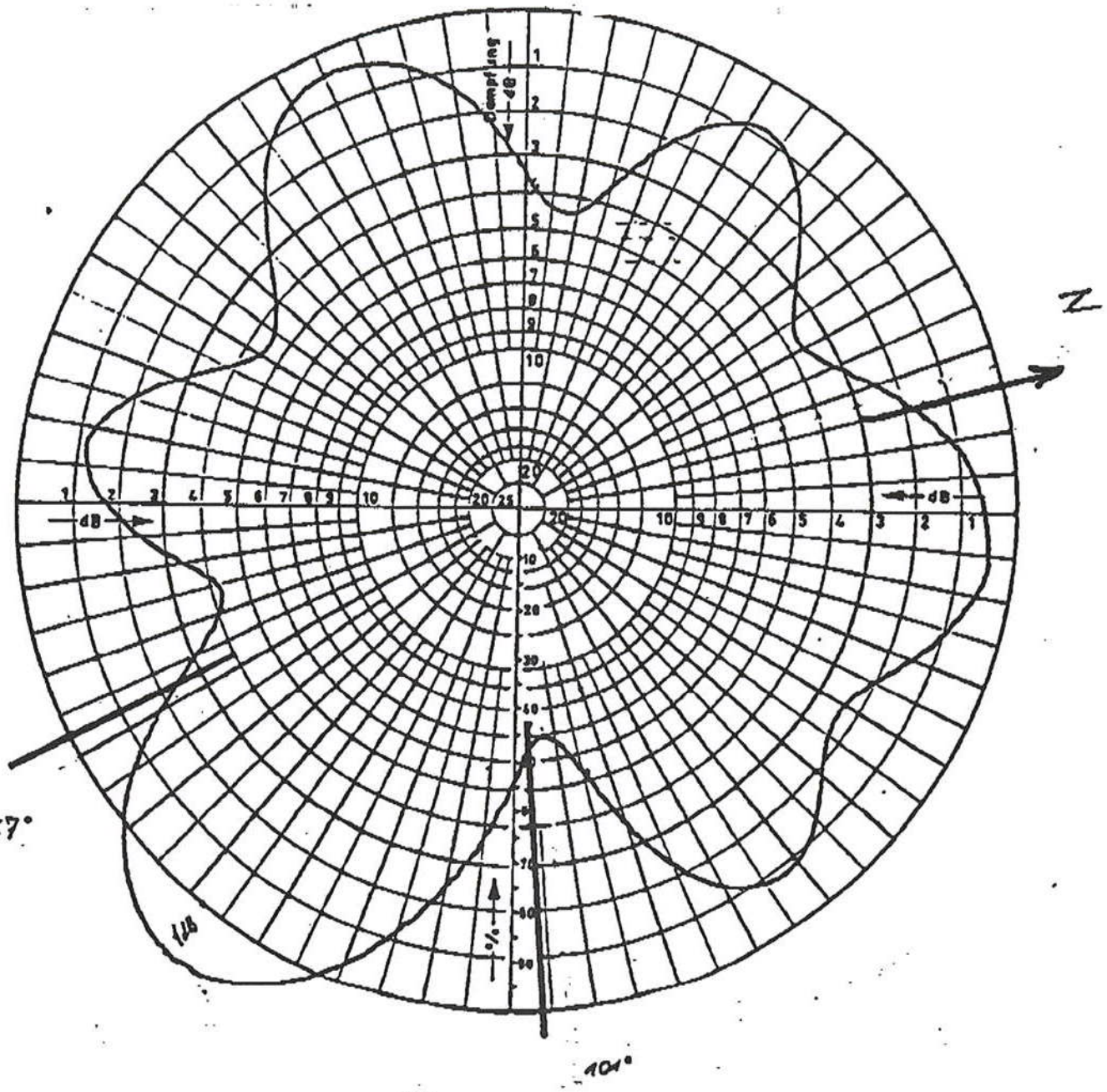
Measured Directional Antenna
Pattern Data

EXHIBIT B3

PATTERN MEASUREMENT PROCEDURE

Antenna pattern measurements were made by Marvin B. Crouch, P. Eng., president of Tennaplex Systems Ltd., of Nepean, Ontario, Canada, at the Kathrein test range in West Germany. This test range is located at Kathrein's factory #2. A single layer (three panels) of the proposed antenna was mounted on a full scale model of the tower on which the antenna will actually be mounted. The physical arrangement of these panels was as shown in Sheet 109/115.1 of this appendix. The power divider harnessing was configured to provide equal power division between the three panels and the proper phase relationship, also as shown in Sheet 109/115.1. This phasing relationship will be maintained by the lengths of the transmission lines between the power dividers and the panels, as shown in Sheet 115.2.

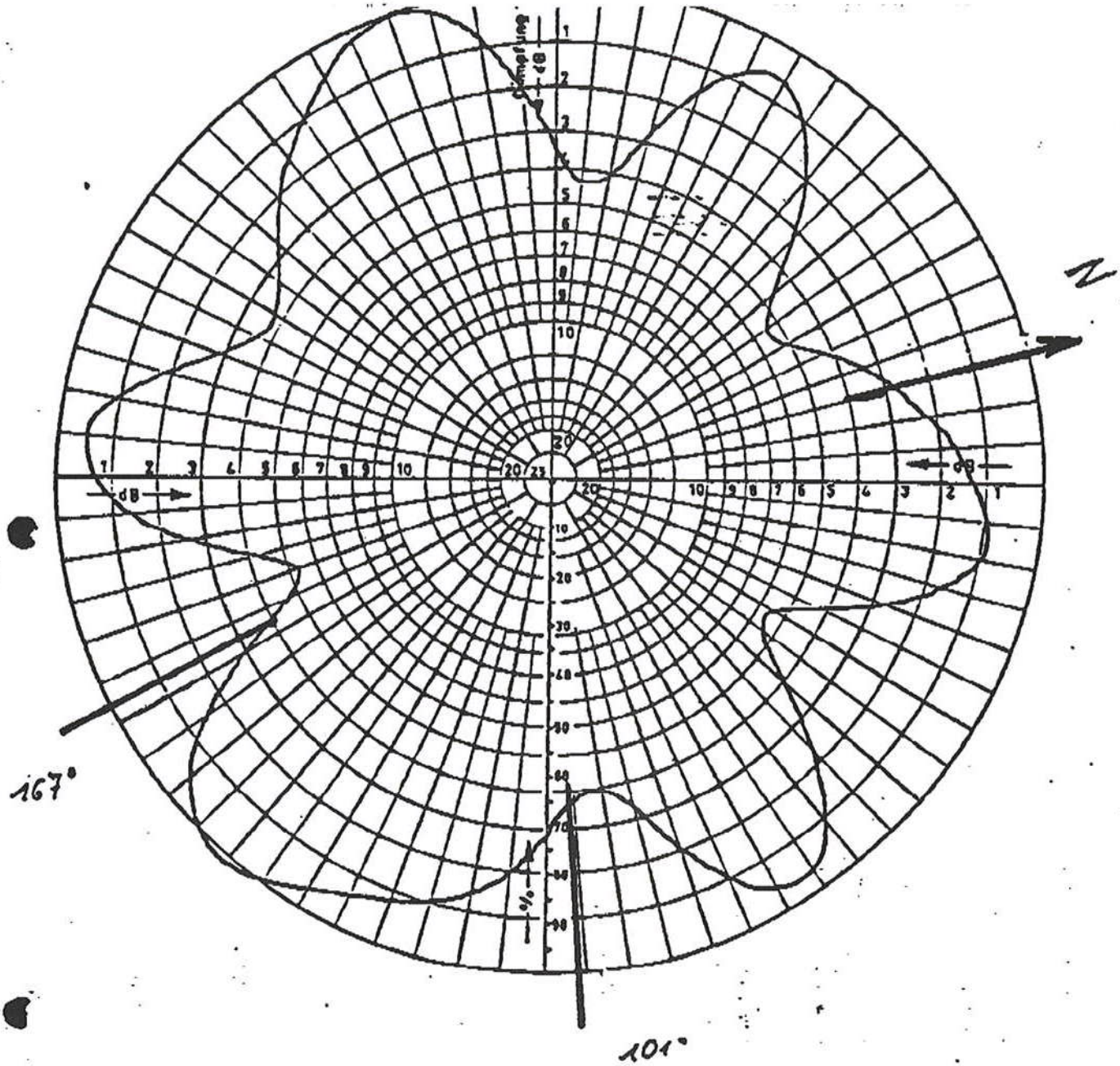
After the installation of this single bay in the identical configuration to which the two bay antenna will actually be installed was completed, the actual pattern measurements were conducted. A yagi array, pointed toward the antenna under test, was excited by a two watt signal generator, which was maintained on the operating frequency of 92.5MHz through the use of a frequency counter. The antenna under test was rotated through a full 360° around a vertical axis, and the signal present at the common feed point to the antenna was measured and plotted on a polar plotter. These measurements were conducted with the excited yagi array polarized in the horizontal plane and then repeated with the signal polarized in the vertical plane. Sheets 1 and 2 show the results of these measurements.



Factory test
Horizontal pattern of the
horizontal polarisation

M.B. Crouch

KATHREIN	Tag 28.6.85	Strahlungsdiagramm 92.5 MHz	Type Nr. 758 664
	Name		Blatt: 1



Factory test

Horizontal pattern of the

vertical polarisation

2.06db M.B. Crouch

KATHREIN	Tag 28.6.85	Strahlungsdiagramm	Type Nr. 756 664
	Name Wagner	92,5 MHz	Blatt: 2

FROM

TABLE 2.0

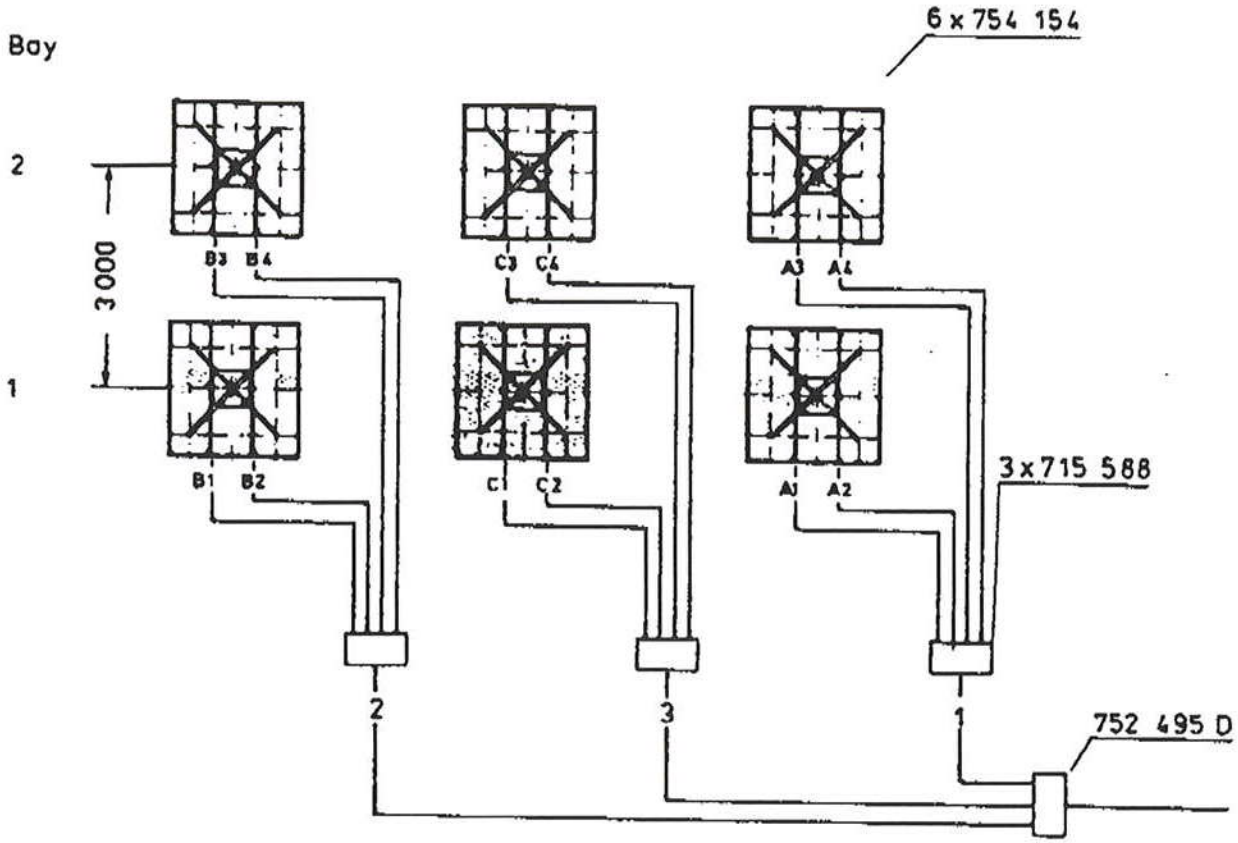
PROPOSED DIRECTIONAL ANTENNA PATTERN

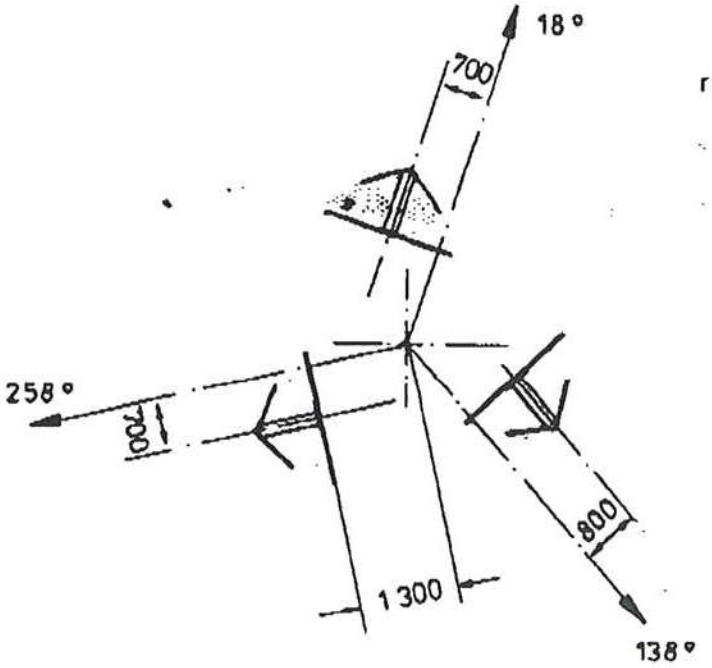
Beasley Broadcasting of Philadelphia, Inc.
Philadelphia, PA

Azimuth (Degrees)	Horizontal Polarization		Vertical Polarization	
	Relative Field	dBK	Relative Field	dBK
0	0.729	9.21	0.646	8.16
15	0.832	10.36	0.767	9.66
30	0.804	10.06	0.741	9.36
45	0.684	8.66	0.473	5.46
60	0.772	9.71	0.684	8.66
75	0.767	9.66	0.841	10.46
90	0.484	5.66	0.613	7.71
105	0.490	5.76	0.638	8.06
120	0.776	9.76	0.790	9.91
135	0.972	11.71	0.861	10.66
150	0.955	11.56	0.891	10.96
165	0.724	9.16	0.638	8.06
180	0.550	6.76	0.550	6.76
195	0.729	9.21	0.818	10.21
210	0.716	9.06	0.716	9.06
225	0.537	6.56	0.579	7.21
240	0.638	8.06	0.700	8.86
255	0.827	10.31	0.832	10.36
270	0.813	10.16	0.871	10.76
285	0.603	7.56	0.596	7.46
300	0.596	7.46	0.646	8.16
315	0.804	10.06	0.832	10.36
330	0.700	8.86	0.620	7.81
345	0.589	7.36	0.495	5.86

KATHREIN TENNAPLEX	Day: 8 Mar 1985 Name:	VERTICAL DIAGRAM 2-bays 754 154 FM CP Transmit Antenna WXTU FM, Philadelphia	Type No.: 756 664

distance	1300	1300	1300
offset	800	700	700





remark: feeding points of the panels are seen from the backside, that means the shorter cable will be attached to the right side connector.

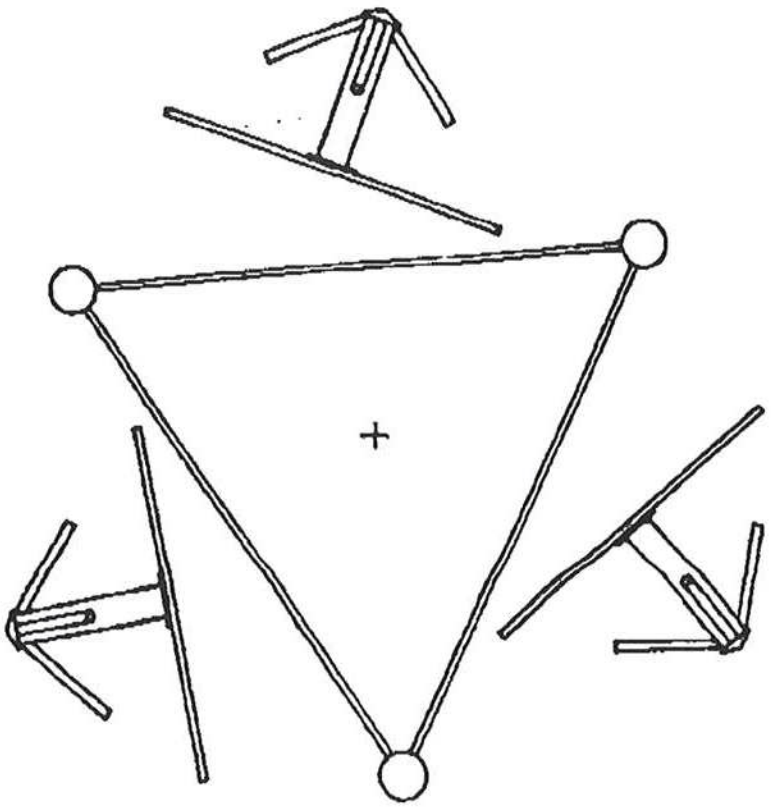
KATHREIN	Tag 11.4.85	FM - cp - Antenna Philadelphia	Typ Nr. 756 664
	Name Osl		Blatt: 109/115 1

ek 2/82

cable no.	length/mm	type	connector		remark
			splitter	antenna	
A1, A3 B1, B3 C1, C3	4 330	Flexwell HF 3/8" Cu2Y	7/16 male BN 97 06 15 (092 940)	7/16 male BN 97 06 08 (092 1072)	connector antenna end are marked "antenna" end of the dehydrating system
A2, A4 B2, B4 C2, C4	3 608				
3	4 000	Flexwell HF 1 5/8" Cu2Y	1 5/8" EIA Flange BN 93 65 10 (092 1163)		
2	2 776				
1	5 027				

TOP VIEW

2 Bays of 3 Radiators Type 754_154
TRIANGULAR Tower, Facewidth is 3048 mm leg centres
one apex is 294 deg.



AZIMUTH	DISTANCE	OFFSET
130	1300	800
250	1300	700
10	1300	700
130	1300	800
250	1300	700
10	1300	700

Scale = 1 : 40

KATHREIN TENNAPLEX	Day 21 Mar 1985 Name	FM CP Transmit Antenna WXTU FM, Philadelphia (CP site)	Type No. 756 664

APPENDIX B

Certifications Regarding
Antenna Installation

EXHIBIT B4

CITY OF PHILADELPHIA

DEPARTMENT OF STREETS
BUREAU OF SURVEYS & DESIGN
Ninth Survey District
6056 Ridge Avenue
Philadelphia, Pa. 19128

March 7, 1986

To whom it may concern:

This letter is to accompany an updated Survey and Plan of property by Francis X. Burns, Surveyor & Regulator, 9th Survey District dated March 6, 1986, which was originally made by Vincent F. Collier dated September 16, 1976 and revised April 26, 1979.

The property is located on the Northwesterly side of Paoli Avenue, 265' 1-3/4" Northeastwardly from the Northeasterly side of Umbria Street. It has a frontage of 1605' 4-3/4".

The focal point on this update is the radio tower and supporting guy-wires and anchors. At the request of Mr. Don Powers, Chief Engineer of Radio station WXTU we have examined the existing tower and support system and found it to be oriented in the same relationship as is stated on the original plan. I have made an addendum on the original plan stating this.

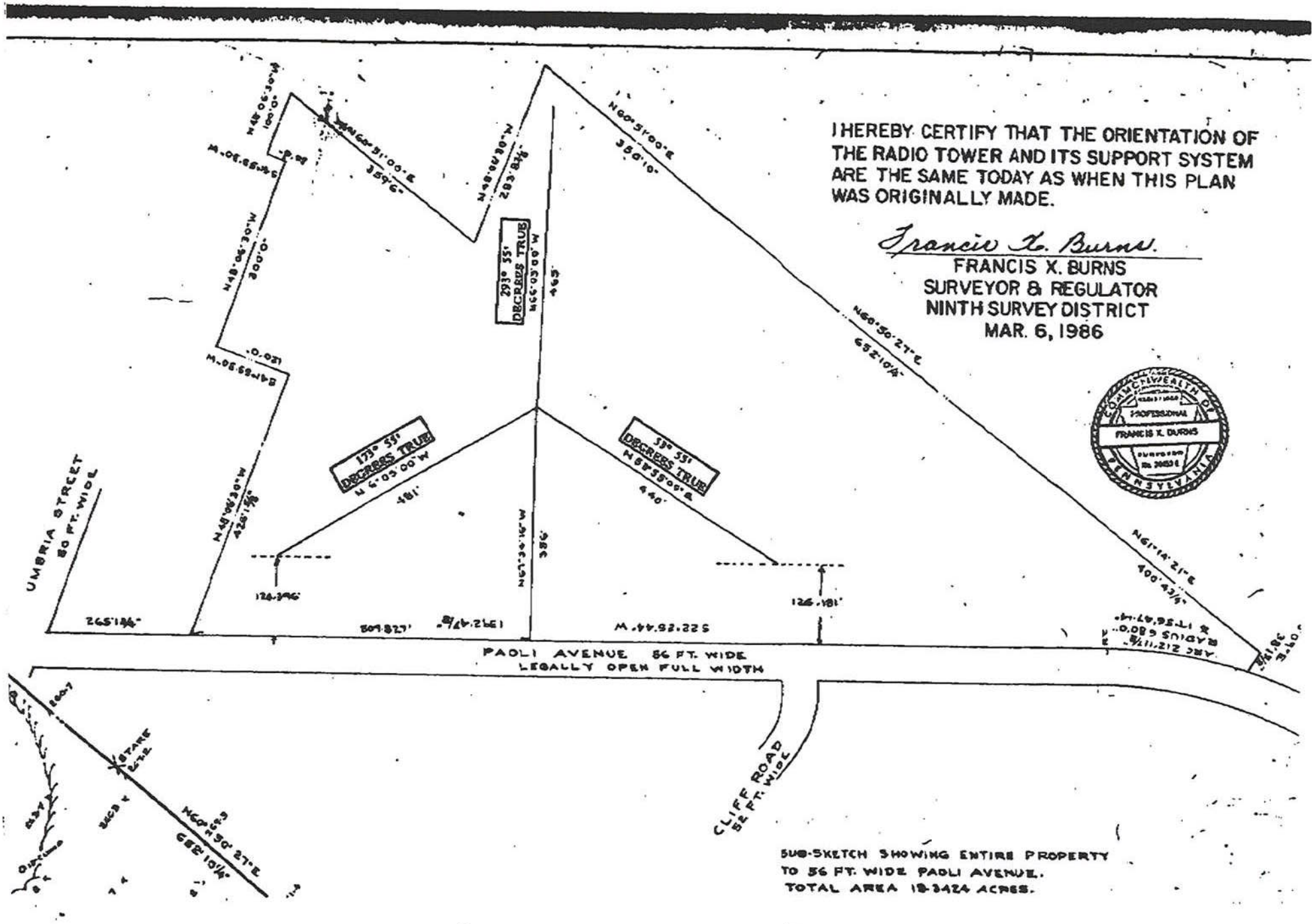
Sincerely

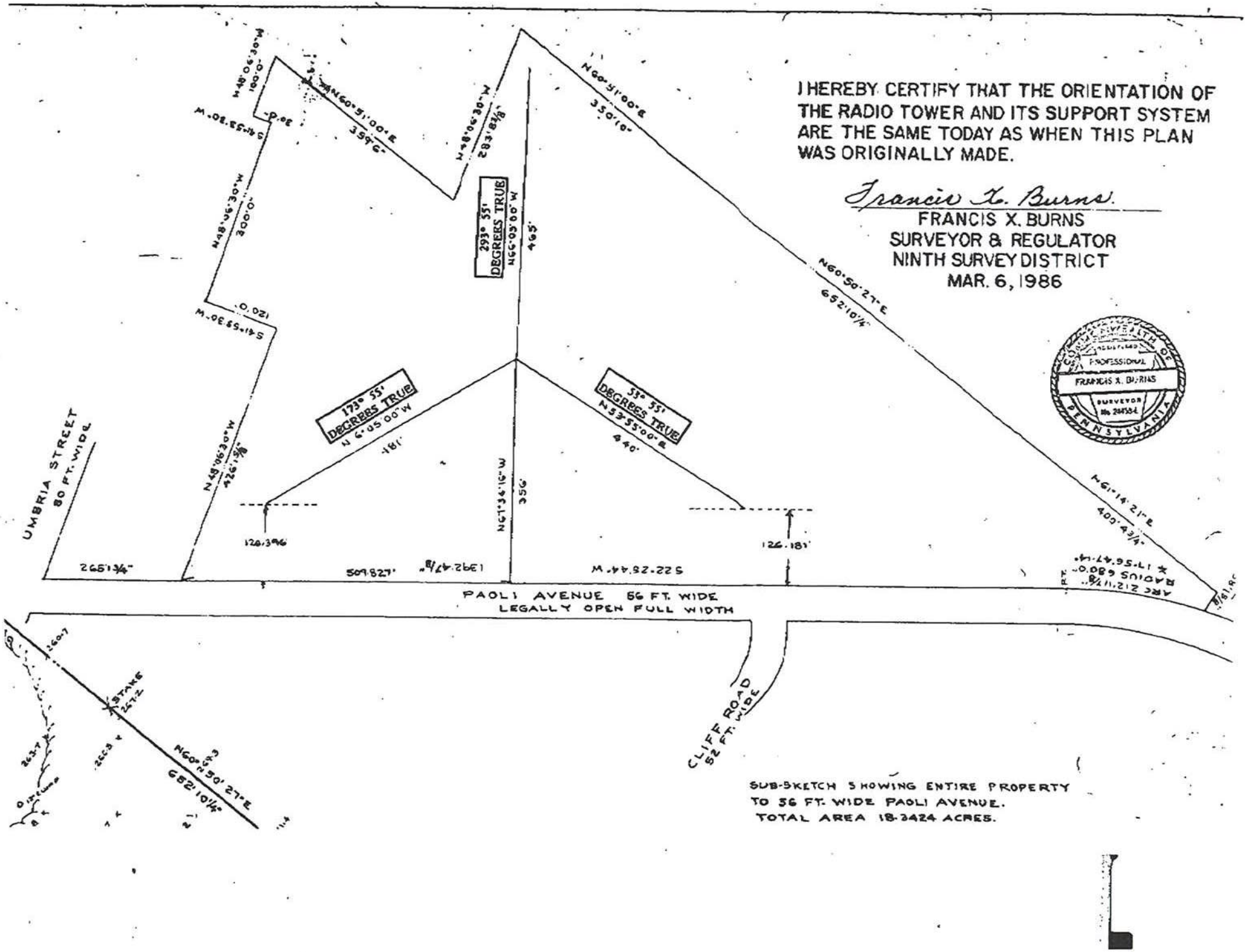
Francis X. Burns

Francis X. Burns
Surveyor & Regulator
9th Survey District

MARYANN GARAGOZZO
Notary Public
My Commission Expires

Sworn to and subscribed before me
this 7th day of March 86


I HEREBY CERTIFY THAT THE ORIENTATION OF THE RADIO TOWER AND ITS SUPPORT SYSTEM ARE THE SAME TODAY AS WHEN THIS PLAN WAS ORIGINALLY MADE.
Francis X. Burns
FRANCIS X. BURNS
SURVEYOR & REGULATOR
NINTH SURVEY DISTRICT
MAR. 6, 1986
COMMONWEALTH OF PENNSYLVANIA
PROFESSIONAL
FRANCIS X. BURNS
UMBRIA STREET
50 FT. WIDE
293° 35' DEGREES TRUE
N 66° 03' 00" W
173° 35' DEGREES TRUE
N 6° 03' 00" W
53° 35' DEGREES TRUE
N 83° 58' 00" E
N 60° 51' 00" E
389' 6"
N 48° 06' 30" W
100' 0"
N 48° 06' 30" W
30' 0"
N 48° 06' 30" W
426' 1 1/2"
N 48° 06' 30" W
293' 8 1/2"
N 60° 51' 00" E
389' 10"
N 60° 30' 27" E
682' 10 1/4"
N 61° 14' 21" E
400' 4 3/4"
N 61° 34' 16" W
386'
465'
481'
440'
124.396'
126.181'
265' 1 1/2"
509' 8 1/2"
1372' 4 7/8"
S 22° 26' 44" W
PAOLI AVENUE 56 FT. WIDE
LEGALLY OPEN FULL WIDTH
CLIFF ROAD
52 FT. WIDE
STAKE
N 60° 30' 27" E
682' 10 1/4"
SUB-SKETCH SHOWING ENTIRE PROPERTY
TO 56 FT. WIDE PAOLI AVENUE.
TOTAL AREA 18.3424 ACRES.


I HEREBY CERTIFY THAT THE ORIENTATION OF THE RADIO TOWER AND ITS SUPPORT SYSTEM ARE THE SAME TODAY AS WHEN THIS PLAN WAS ORIGINALLY MADE.
Francis X. Burns
FRANCIS X. BURNS
SURVEYOR & REGULATOR
NINTH SURVEY DISTRICT
MAR. 6, 1986
COMMONWEALTH OF PENNSYLVANIA
PROFESSIONAL
FRANCIS X. BURNS
SURVEYOR
No. 28458-E
N48°06'30"W 100.0'
N60°51'00"E 354.6'
S41°53'30"W 30.0'
N48°06'30"W 283.83/8'
N60°51'00"E 350.10'
N48°06'30"W 300.0'
293° 55' DEGREES TRUE N66°05'00"W
465'
N60°50'27"E 652.10 1/4'
S41°53'30"W 120.0'
173° 55' DEGREES TRUE N 6°05'00"W
181'
53° 55' DEGREES TRUE N53°55'00"E
240'
N49°06'30"W 426.1 5/8'
UMBRIA STREET 80 FT. WIDE
N61°14'21"E 409.43/4'
ARC 212.11 7/8' RADIUS 680.0' ∠ 17°56'47"
120.396
265.13/4'
509.827'
1392.47/8'
N67°36'16"W 356'
S22°28'44"W
126.181'
PAOLI AVENUE 56 FT. WIDE
LEGALLY OPEN FULL WIDTH
STONE
N60°50'27"E 682.10 1/4'
CLIFF ROAD 82 FT. WIDE
SUB-SKETCH SHOWING ENTIRE PROPERTY TO 56 FT. WIDE PAOLI AVENUE.
TOTAL AREA 18.3424 ACRES.

TENNAPLEX SYSTEMS LTD.
21 Concourse Gate, Nepean, Ontario K2E 7S4 Telex: 053 4962 Tel.: (613) 226-5870

20 December 1985

Mr. Don Powers, Chief Engineer
WXTU
23 West City Avenue
Bala Cynwyd, Penn. 19004

Affidavit

Having personally climbed the tower and checked the installation I certify that the Kathrein antenna type 756 664 was installed as planned and drawn, with proper spacing, aiming angles and harnessing.

Signed,

Edwin Ritz
Field Services Manager
Tennaplex Systems Ltd.

Notorized

Notary Public
REGINA, CANADA.

EXHIBIT B5