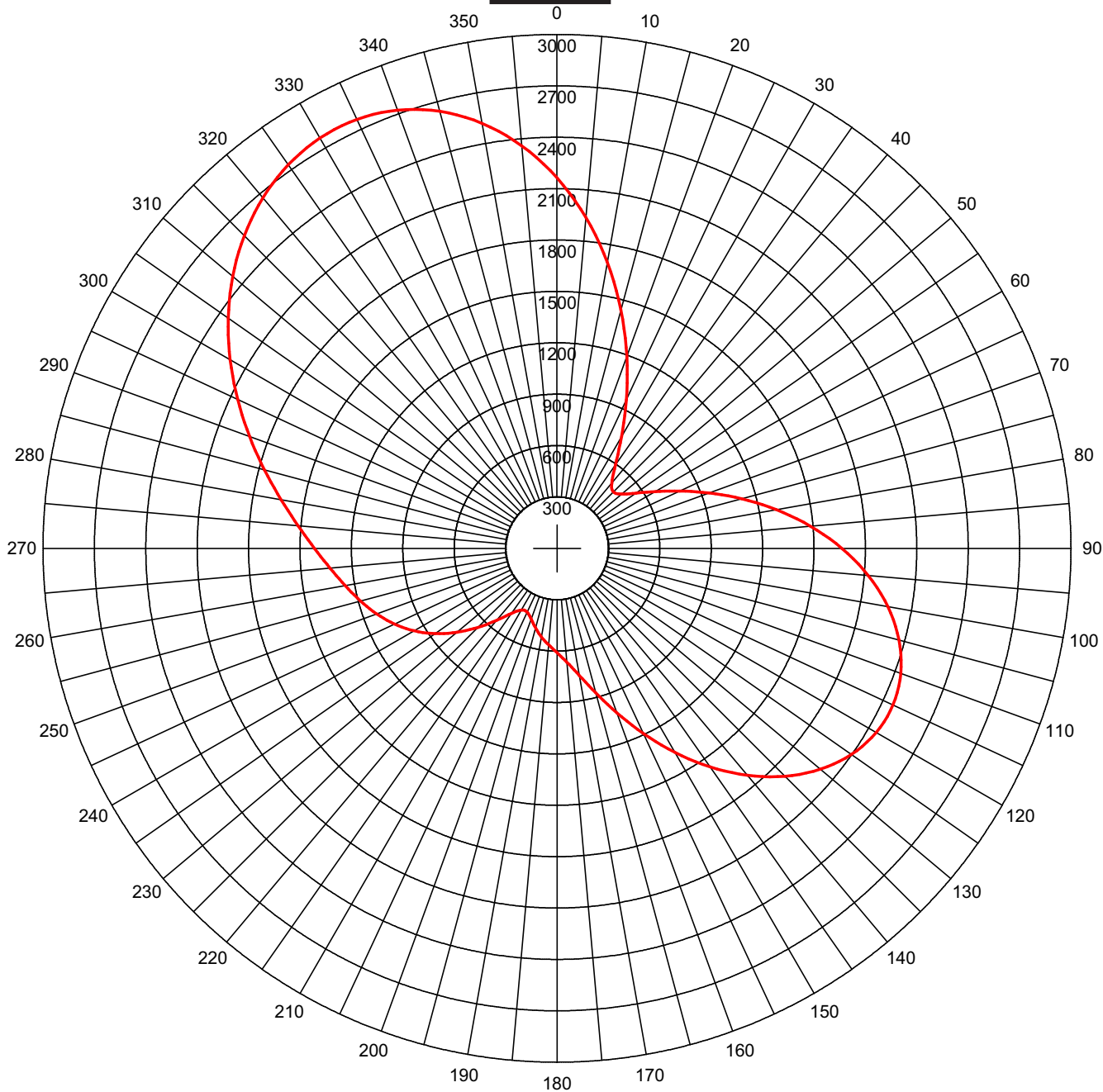


AM Directional Pattern

True North



Theo RMS: 1528.472 mV/m@1km
Std RMS: 1605.823 mV/m@1km
Q: 51.962 mV/m@1km

Standard Horizontal Plane Pattern

— Pattern (mV/m @ 1km)
— Pattern X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.399	-148.5	0.0	0.0	71.6	0	0	0.0	0.0	0.0	0.0
2	0.305	-37.6	130.0	65.0	71.6	0	0	0.0	0.0	0.0	0.0
3	1.000	0.0	90.0	150.0	71.6	0	0	0.0	0.0	0.0	0.0
4	0.331	-61.6	164.4	98.0	71.6	0	0	0.0	0.0	0.0	0.0
5	0.316	-142.1	182.2	141.5	71.6	0	0	0.0	0.0	0.0	0.0
6	0.324	77.2	231.9	112.0	71.6	0	0	0.0	0.0	0.0	0.0

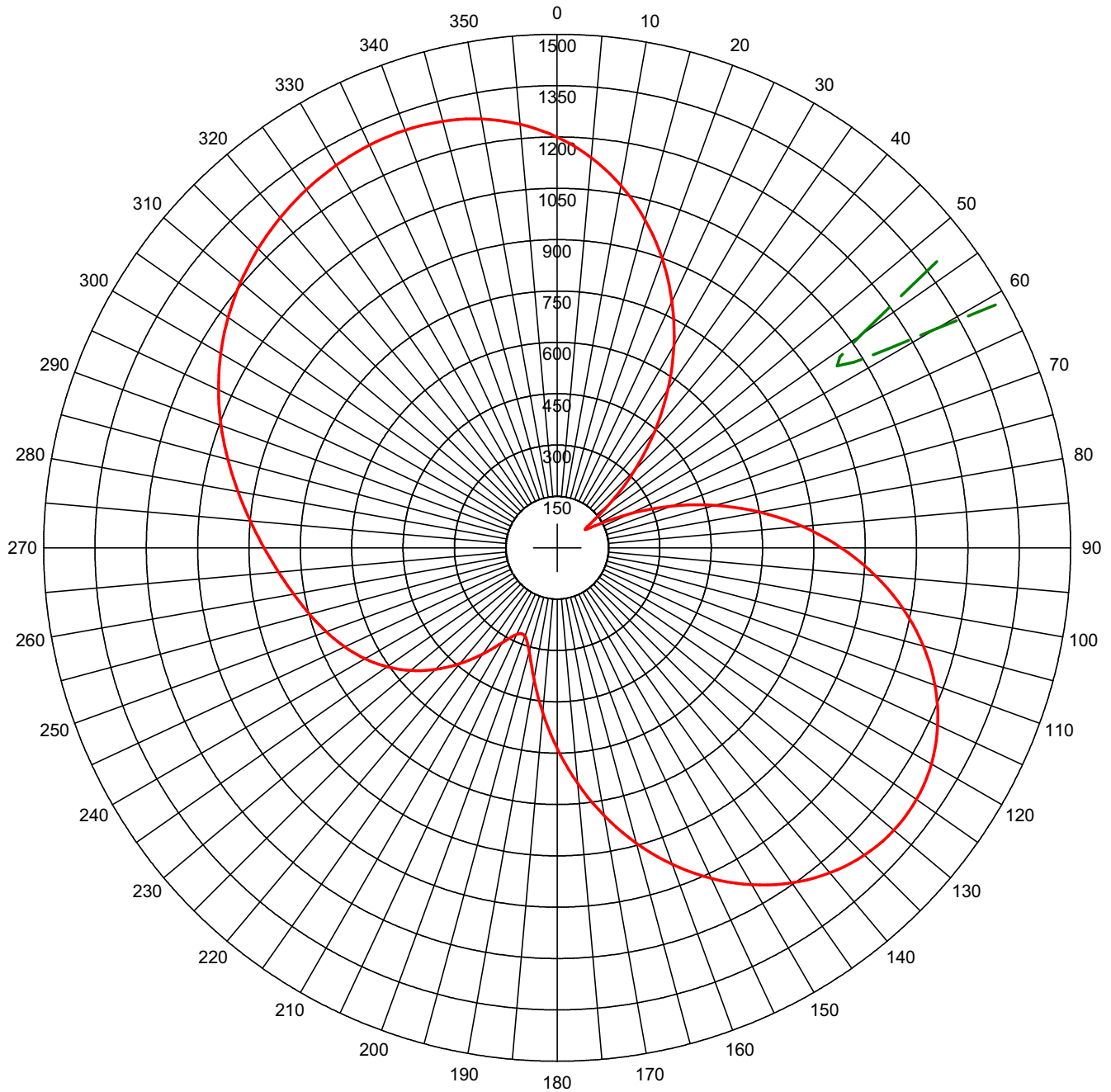
EXHIBIT 12 - FIGURE 1 PROPOSED DAYTIME STANDARD PATTERN PLOT (Sheet 1 of 3)

prepared September 2009 for
Poinet Communications Ltd.
WNVR(AM) Vernon Hills, Illinois
Facility ID 52910
1030 kHz 27 kW-D 8 kW-CH 0.21 kW-N DA-3 U

Cavell, Mertz & Associates, Inc.
Manassas, Virginia

AM Directional Pattern

True North



Theo RMS: 870.982 mV/m@1km
 Std RMS: 915.013 mV/m@1km
 Q: 28.284 mV/m@1km

Standard Horizontal Plane Pattern

— Pattern (mV/m @ 1km)
 — Pattern X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	71.6	0	0	0.0	0.0	0.0	0.0
2	0.549	-59.0	130.0	65.0	71.6	0	0	0.0	0.0	0.0	0.0
3	0.477	-76.0	90.0	150.0	71.6	0	0	0.0	0.0	0.0	0.0
4	0.573	83.0	164.4	98.0	71.6	0	0	0.0	0.0	0.0	0.0
5	0.759	118.0	182.2	141.5	71.6	0	0	0.0	0.0	0.0	0.0
6	0.303	130.0	231.9	112.0	71.6	0	0	0.0	0.0	0.0	0.0

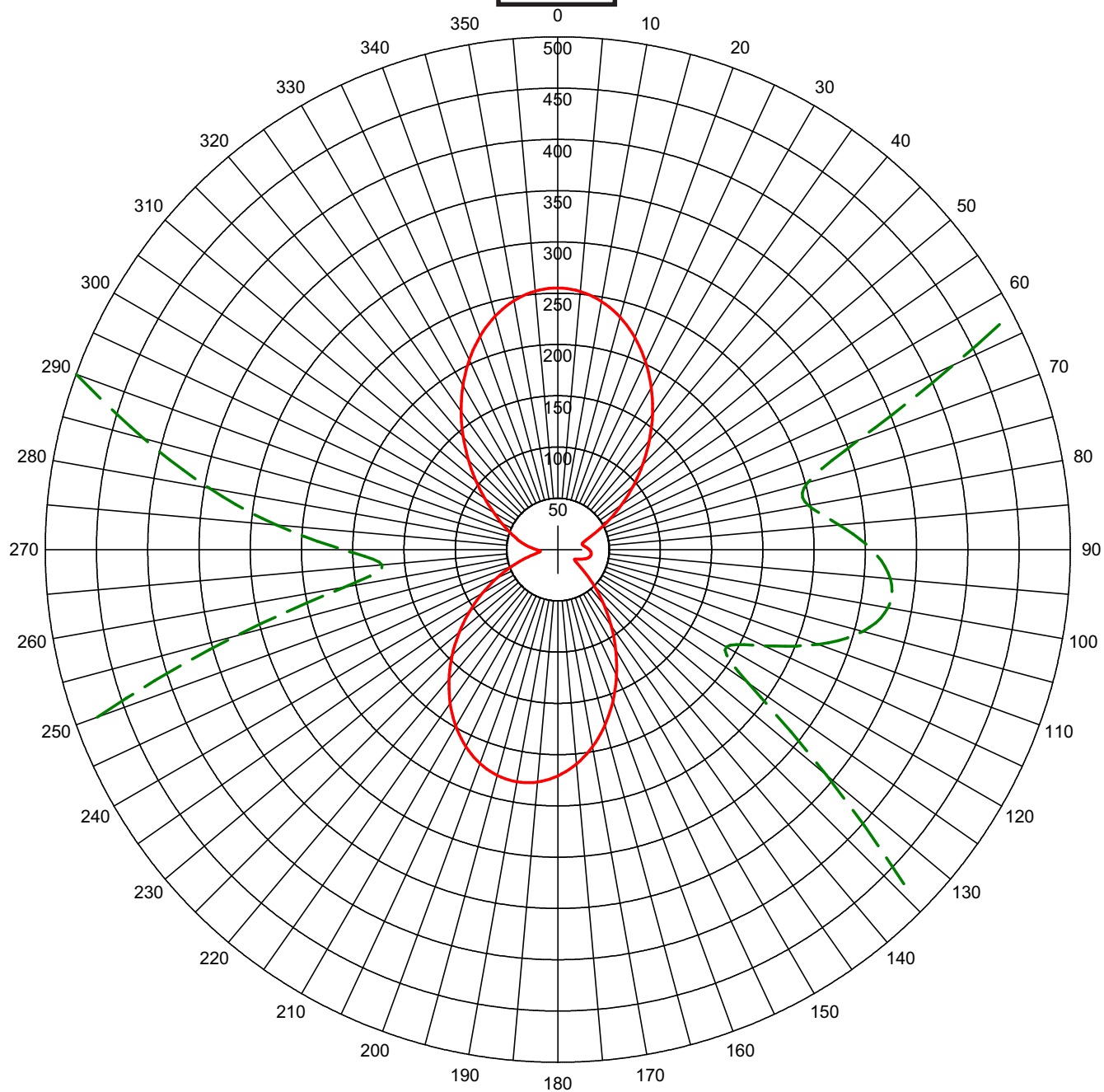
EXHIBIT 12 - FIGURE 1 PROPOSED CRITICAL HOURS STANDARD PATTERN PLOT (Sheet 2 of 3)

prepared September 2009 for
Polnet Communications Ltd.
 WNVN(AM) Vernon Hills, Illinois
 Facility ID 52910
 1030 kHz 27 kW-D 8 kW-CH 0.21 kW-N DA-3 U

Cavell, Mertz & Associates, Inc.
 Manassas, Virginia

AM Directional Pattern

True North



Theo RMS: 137.391 mV/m@1km

Std RMS: 144.642 mV/m@1km

Q: 10.0 mV/m@1km

Standard Horizontal Plane Pattern

— Pattern (mV/m @ 1km)
- - - Pattern X10

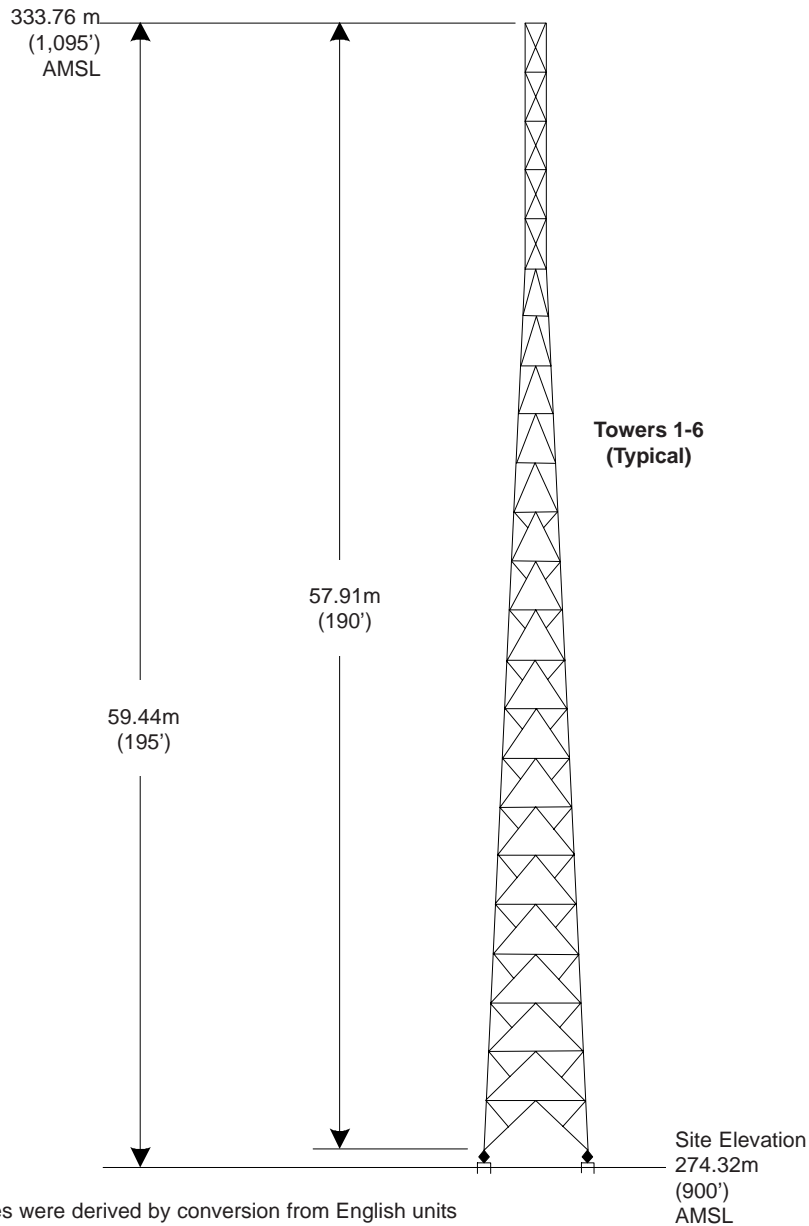
#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	71.6	0	0	0.0	0.0	0.0	0.0
2	0.591	169.3	90.0	150.0	71.6	0	0	0.0	0.0	0.0	0.0
3	0.877	14.4	164.4	98.0	71.6	0	0	0.0	0.0	0.0	0.0
4	0.177	-123.7	182.2	141.5	71.6	0	0	0.0	0.0	0.0	0.0
5	0.155	-160.5	231.9	112.0	71.6	0	0	0.0	0.0	0.0	0.0

EXHIBIT 12 - FIGURE 1 PROPOSED NIGHTTIME STANDARD PATTERN PLOT (Sheet 3 of 3)

prepared September 2009 for
Polnet Communications Ltd.
 WNVN(AM) - Vernon Hills, Illinois
 Facility ID 52910
 1030 kHz 27 kW-D 8 kW-CH 0.21 kW-N DA-3 U

Cavell, Mertz & Associates, Inc.
 Manassas, Virginia

Array Center
42° 15' 10" N
88° 23' 45" W
(NAD-27)



Not to
Scale

Not for
Construction

NOTE: Metric values were derived by conversion from English units of measure. Some of the metric values may not add correctly due to the rounding employed in the conversion process.

**EXHIBIT 12 - FIGURE 2
PROPOSED ANTENNA SYSTEM
ELEVATION PLAN**

prepared September 2009 for

Polnet Communications Ltd.

WNVR(AM) Vernon Hills, Illinois

Facility ID 52910

1030 kHz 27 kW-D 8 kW-CH 0.21 kW-N DA-3 U

Cavell, Mertz & Associates, Inc.
Manassas, Virginia

Woodstock Quadrangle
Illinois
7.5 Minute Series (Topographic)

EXHIBIT 12 - FIGURE 3
PROPOSED TRANSMITTER SITE LOCATION MAP
(Sheet 1 of 3)

prepared September 2009 for
Polnet Communications Ltd.
WNVR(AM) Vernon Hills, Illinois
Facility ID 52910
1030 kHz 27 kW-D 8 kW-CH 0.21 kW-N DA-3 U

Cavell, Mertz & Associates, Inc.
Manassas, Virginia

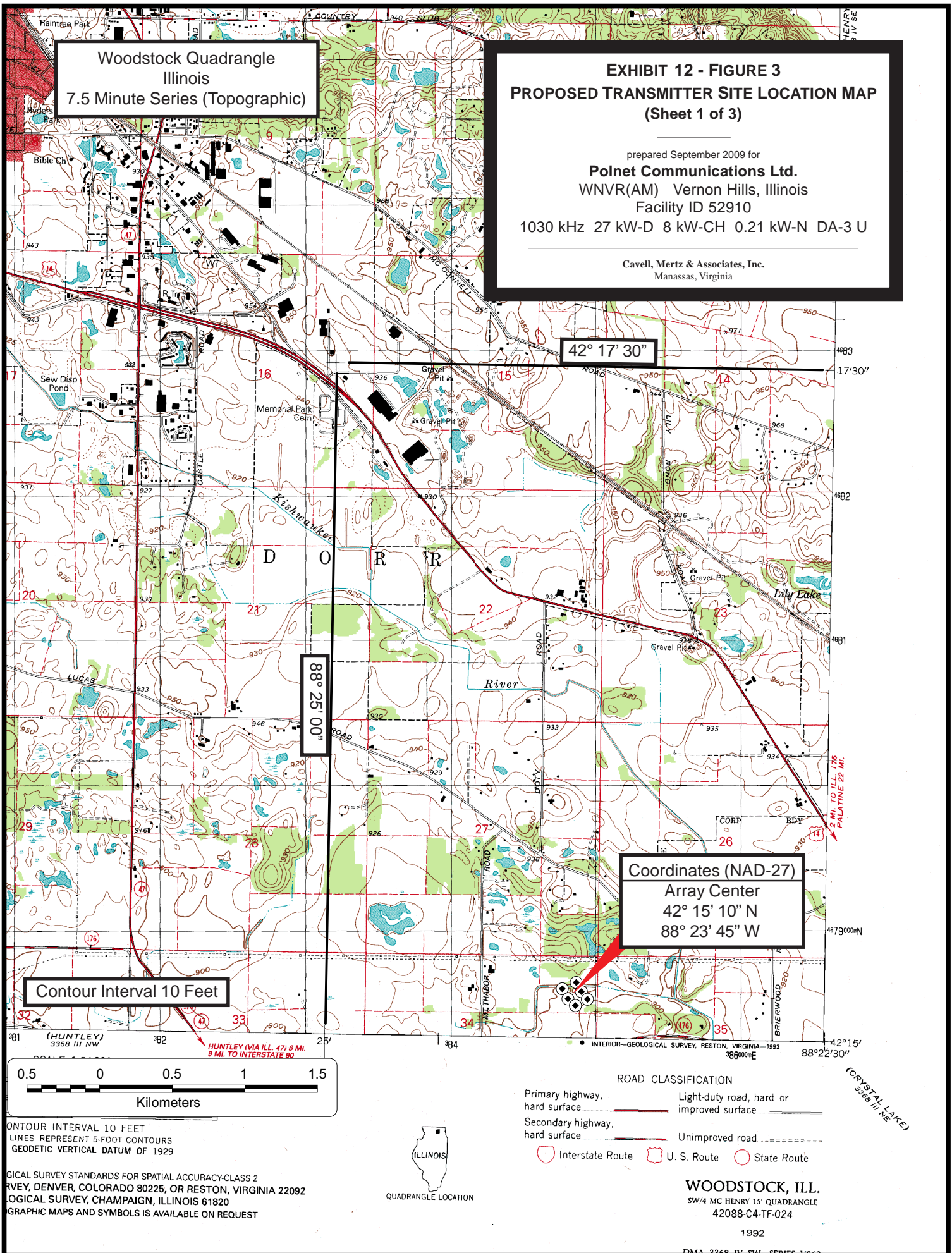
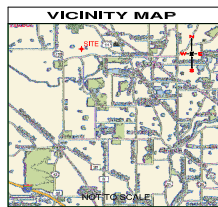
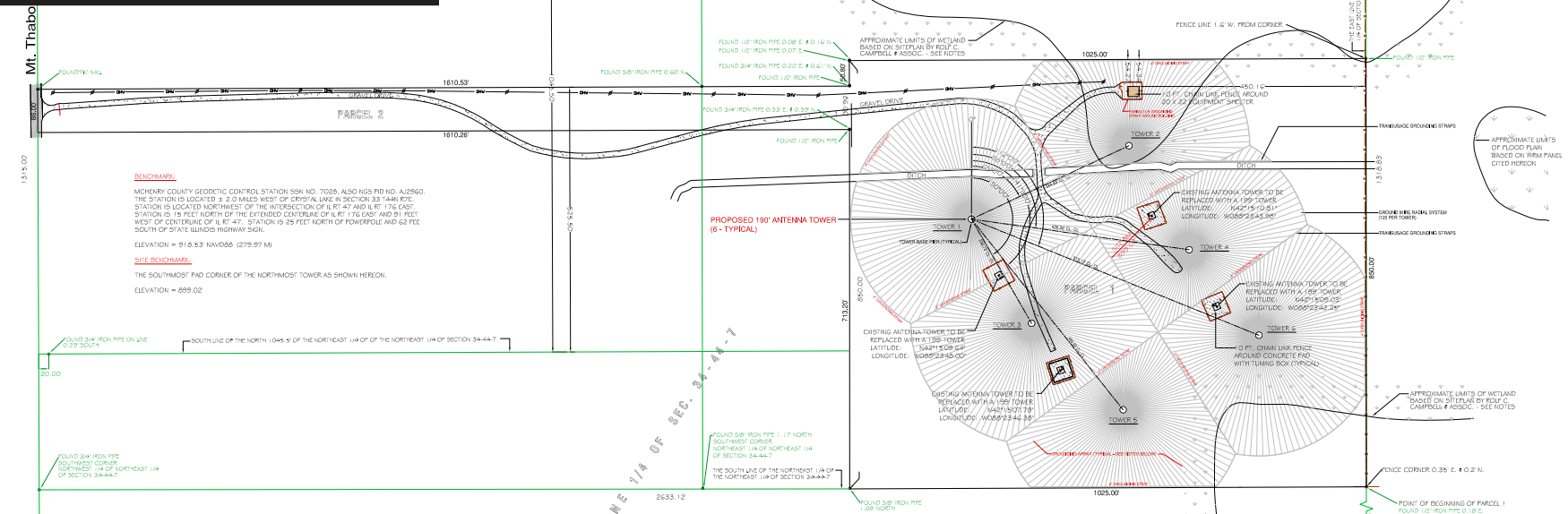


EXHIBIT 12 - FIGURE 3 PROPOSED TRANSMITTER SITE PLAT PLAN (Sheet 2 of 3)

prepared September 2009 for
Polnet Communications Ltd.
WNVR(AM) Vernon Hills, Illinois
Facility ID 52910
1030 kHz 27 kW-D 8 kW-CH 0.21 kW-N DA-3 U

Cavell, Mertz & Associates, Inc.
Manassas, Virginia



LEGEND	
	GRAVEL
	CONCRETE
	PAVEMENT
	BUILDING
	OVERHEAD WIRE
	COMMUNICATION LINE
	ELECTRIC LINE
	GAS LINE
	TELEPHONE LINE
	FENCE
	IRON ROD / IRON PIPE AS INDICATED

SURVEY NOTES

THE SURVEYOR EXPRESSES NO OPINION AS TO THE ACCURACY OF THE UNDERGROUND UTILITIES WHEN NOT READILY VISIBLE FROM THE SURFACE. IT IS RECOMMENDED THAT THE APPROPRIATE GOVERNMENTAL AGENCY, MUNICIPALITY AND / OR UTILITY COMPANY BE CONTACTED FOR VERIFICATION.

THE APPROXIMATE LIMITS OF THE WETLANDS SHOWN HEREON ARE BASED ON THE SITUATION PREPARED FOR POLNET COMMUNICATIONS, LTD., BY ROUF C. CAMPBELL & ASSOC. DATED JANUARY 6, 1999.

THE PERMANENT INDEX NUMBER FOR THE PROPERTY DESCRIBED HEREON IS 13-34-200-023 & 13-34-200-025.

THE FLOOD INSURANCE RATE MAP (FIRM) SHOWS THAT PROPERTY DESCRIBED HEREON AS FALLING WITHIN ZONE 1C. ACCORDING MAP NO. 170732 0200 B, MCHEERY COUNTY (UNINCORPORATED AREAS), WITH AN EFFECTIVE DATE OF SEPTEMBER 30, 1981. ZONE 1C ARE AREAS OF MINIMAL FLOODING.

EASEMENT AND SERVIDITUDES SHOWN HEREON ARE BASED UPON A TITLE COMMITMENT ISSUED BY THE CHICAGO TITLE INSURANCE COMPANY, AND IDENTIFIED AS ORDER NO. 1401 WF8377162 LPA, WITH AN EFFECTIVE DATE OF JANUARY 24, 2002.

THE PROPOSED TOWERS AND GROUNDING SYSTEMS WERE PROVIDED BY THE CLIENT.

ACCORDING TO THE CLIENT, THERE IS AN EXISTING GROUNDING SYSTEM ALREADY IN PLACE AND WILL BE REWORKED AS REFLECTED HEREON. EACH ARRAY CONSISTS OF 120 #20 GAUGE COPPER WIRES. THE COPPER GROUNDING STRIPS AROUND THE PERIMETER OF THE PROPERTY SHOWN HEREON ARE EXISTING #4 STRIPS. ALL OTHERS ARE 2 STRIPS, PROPOSED OR EXISTING.

THE LOCATION OF THE GROUNDING WIRES SHOWN HEREON IS TO BE ASSUMED APPROXIMATE; NO INDEPENDENT FIELD VERIFICATION TO LOCATE THE EXISTING GROUNDING WIRES WAS MADE FOR THE PURPOSE OF THIS SURVEY AND SITUATION.

STATE OF ILLINOIS
COUNTY OF KENDALL

I, KEITH W. STODDARD, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT THE PLAT SHOWN HEREON, BEING COMPLETED IN THE FIELD ON 8/15/2009, IS A CORRECT REPRESENTATION OF A SURVEY PERFORMED AT AND UNDER MY DIRECTION.

ALL DIMENSIONS ARE IN FEET AND DECIMAL PARTS THEREOF.

GIVEN UNDER MY HAND AND SEAL THIS 15th DAY OF JUNE, A.D. 2009.

KEITH W. STODDARD
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3122
LICENSE EXPIRES 12/31/2010

LEGAL DESCRIPTION:

PARCEL 1:

THAT PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 34, TOWNSHIP 44 NORTH, RANGE 7, EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHEERY COUNTY, ILLINOIS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGINNING AT THE SOUTHWEST CORNER OF SAID NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 34; THENCE NORTH ALONG THE EAST LINE OF SAID NORTHEAST 1/4 OF THE NORTHEAST 1/4, A DISTANCE OF 250.00 FEET; THENCE WEST ALONG A LINE PARALLEL WITH THE SOUTH LINE OF SAID NORTHEAST 1/4 OF THE NORTHEAST 1/4, A DISTANCE OF 1025.00 FEET; THENCE SOUTH ALONG A LINE PARALLEL WITH THE EAST LINE OF THE SAID NORTHEAST 1/4 OF THE NORTHEAST 1/4, A DISTANCE OF 250.00 FEET TO THE SOUTH LINE OF THE SAID NORTHEAST 1/4 OF THE NORTHEAST 1/4; THENCE EAST ALONG THE SAID SOUTH LINE, A DISTANCE OF 1025.00 FEET TO THE POINT OF BEGINNING, CONTAINING 20.00 ACRES OR LESS, ALL IN MCHEERY COUNTY, ILLINOIS.

PARCEL 2:

EASEMENT FOR INGRESS AND EGRESS AS CREATED BY WARRANTY DEED RECORDED APRIL 11, 2000 AS DOCUMENT 2000R17662 MADE BY POLNET COMMUNICATIONS LTD. TO EDWIN G. VOSS AND COLLEEN A. VOSS, FOR THE NORTH 86.00 FEET OF THE SOUTH 528.5 FEET OF THE NORTH 1/4 OF THE SAID NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 34 (JOFF THE EAST 1025.00 FEET THEREOF), TOWNSHIP 44 NORTH, RANGE 7, EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHEERY COUNTY, ILLINOIS.

PREPARED BY:

ASMO
Advanced Surveying and Mapping

PO Box 7
Plano, IL 60545
Telephone (630) 275-2500
Fax (630) 275-2600
E-MAIL: asm@advco.com

PREPARED FOR:

Polnet Communications
3656 West Belmont Ave
Chicago, IL 60618
Tel. 847-487-9006

TITLE:

SITE PLAN AND PLAT OF SURVEY
of
5212 Mt. Thabor Road
Woodstock, Illinois 60098

JOB NO.:	714001A	SHEET	1
DRAWN BY:	DL	CHECKED BY:	KWS
DATE OF DRAWING:	6/7/2009		
DATE OF SURVEY:	8/15/2009		
REVISION:	8/15/2009		
ISSUED FOR REVIEW AND COMMENT			
REVISION:			

Not to scale.
Not for construction.

EXHIBIT 12 - FIGURE 3
PROPOSED TRANSMITTER SITE PLAT PLAN
AND OVERLAYED PHOTO
(Sheet 3 of 3)

prepared September 2009 for
Polnet Communications Ltd.
WNVR(AM) Vernon Hills, Illinois
Facility ID 52910
1030 kHz 27 kW-D 8 kW-CH 0.21 kW-N DA-3 U

Cavell, Mertz & Associates, Inc.
Manassas, Virginia

Ground system area truncated
by property boundary.

Limits of ground
wire radial system.
(120 per tower)

Transverse
Grounding
Straps

Tower 1

Tower 2

Tower 4

Tower 3

Tower 6

Tower 5

Ground system area truncated
by property boundary.

Note:
Each radial wire is approximately 240 feet in length,
unless where truncated by transverse copper straps,
property boundary or ditch border straps.

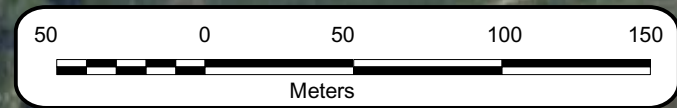


EXHIBIT 12 - FIGURE 4
PREDICTED 1000 mV/m BLANKETING CONTOURS
PROPOSED FACILITY
(Sheet 1 of 2)

prepared September 2009 for
Polnet Communications Ltd.
WNVN(AM) Vernon Hills, Illinois
Facility ID 52910
1030 kHz 27 kW-D 8 kW-CH 0.21 kW-N DA-3 U

Cavell, Mertz & Associates, Inc.
Manassas, Virginia

Predicted Contours
Daytime 1000 mV/m
Critical Hours 1000 mV/m
Nighttime 1000 mV/m

14

Scale 1:50,000

0 0.7 1.4 2.1 km

EXHIBIT 12 - FIGURE 4
LICENSED 1000 mV/m BLANKETING CONTOURS
LICENSED FACILITY
(Sheet 2 of 2)

prepared September 2009 for
Polnet Communications Ltd.
WNVR(AM) Vernon Hills, Illinois
Facility ID 52910
1030 kHz 27 kW-D 8 kW-CH 0.21 kW-N DA-3 U

Cavell, Mertz & Associates, Inc.
Manassas, Virginia

Licensed Contours
Daytime 1000 mV/m
Critical Hours 1000 mV/m
Nighttime 1000 mV/m

14

Scale 1:50,000

0 0.7 1.4 2.1 km

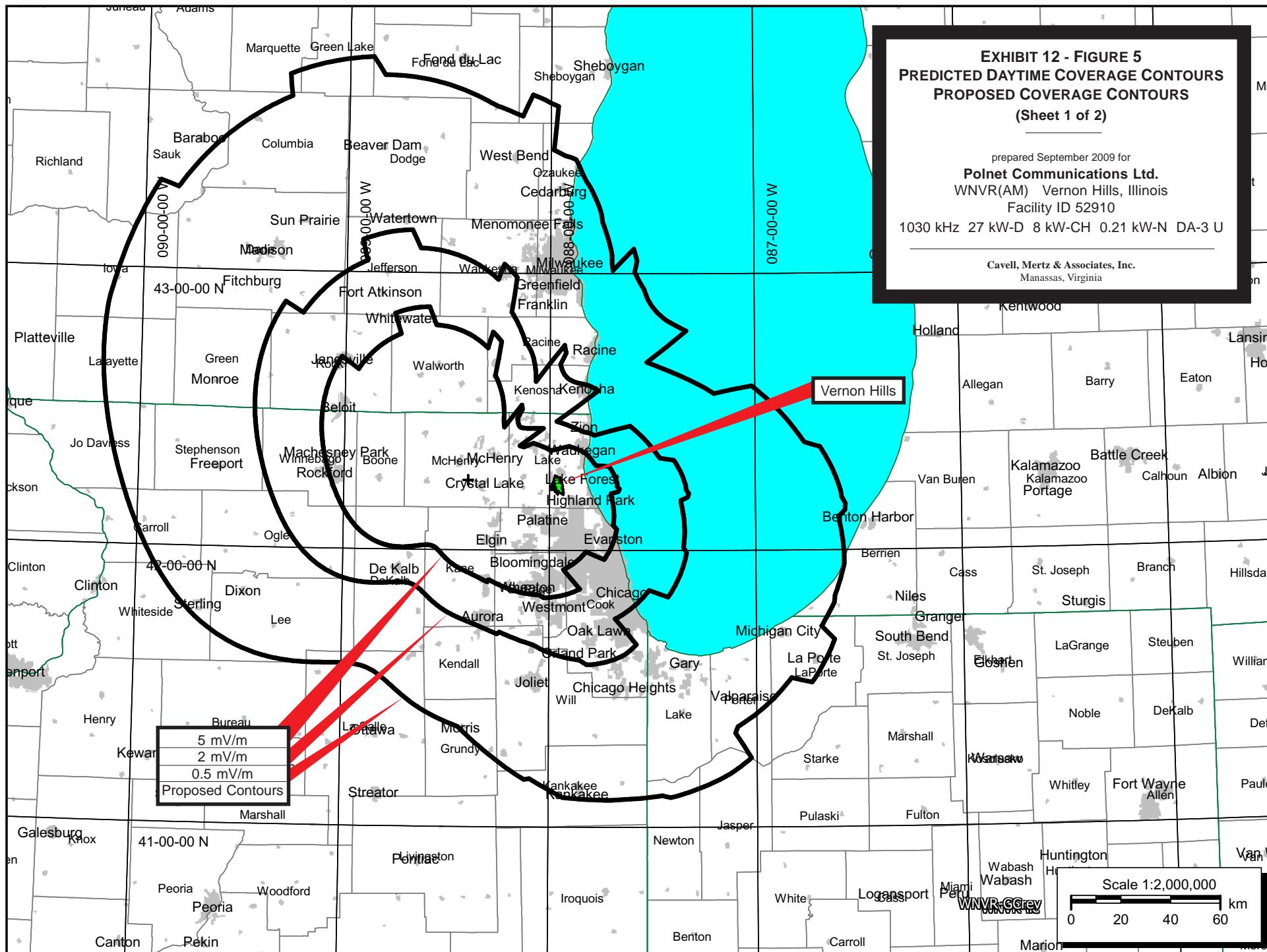
EXHIBIT 12 - FIGURE 5
PREDICTED DAYTIME COVERAGE CONTOURS
PROPOSED COVERAGE CONTOURS
 (Sheet 1 of 2)

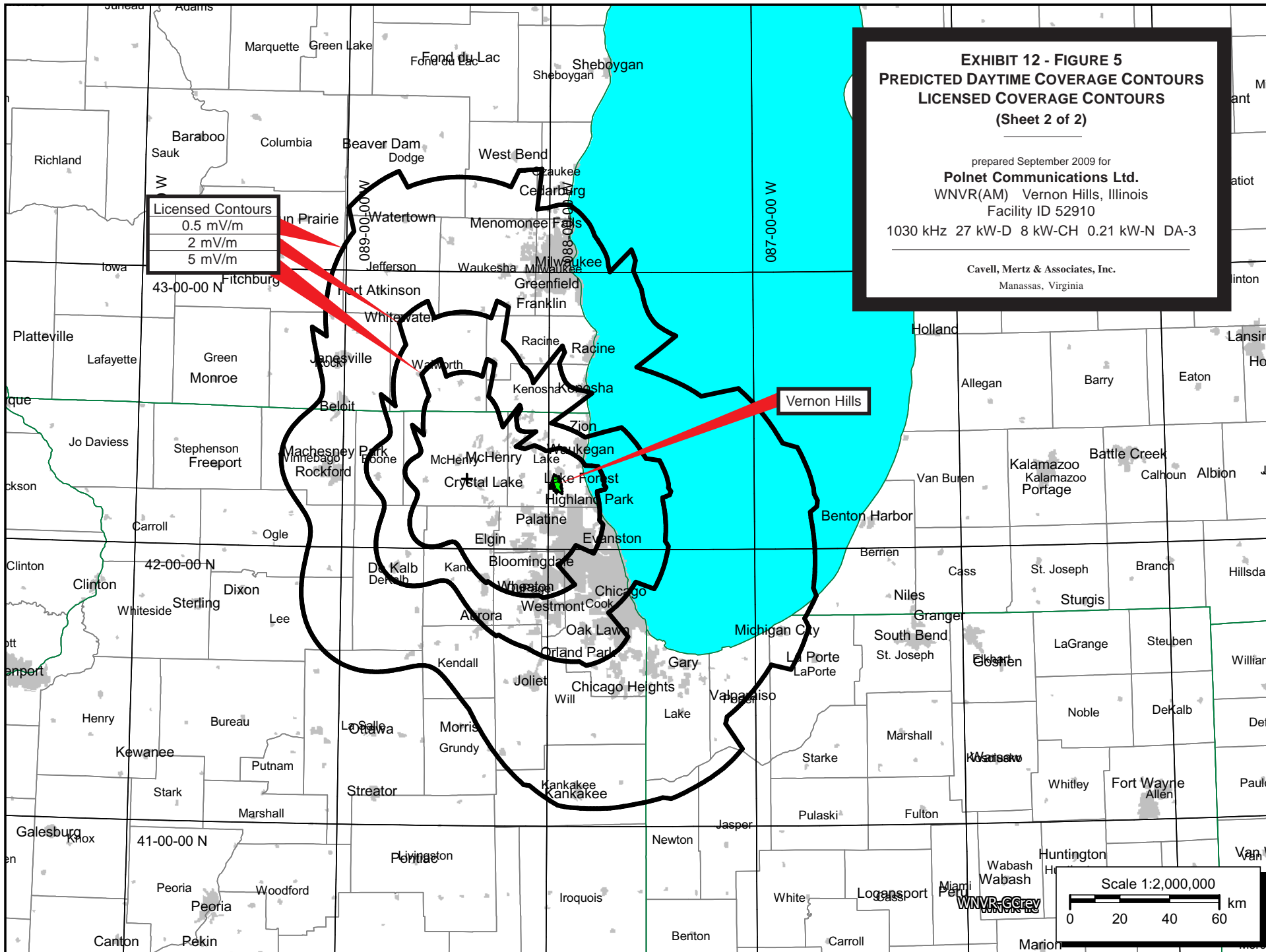
prepared September 2009 for

Polnet Communications Ltd.
 WNVN(AM) Vernon Hills, Illinois
 Facility ID 52910

1030 kHz 27 kW-D 8 kW-CH 0.21 kW-N DA-3 U

Cavell, Mertz & Associates, Inc.
 Manassas, Virginia





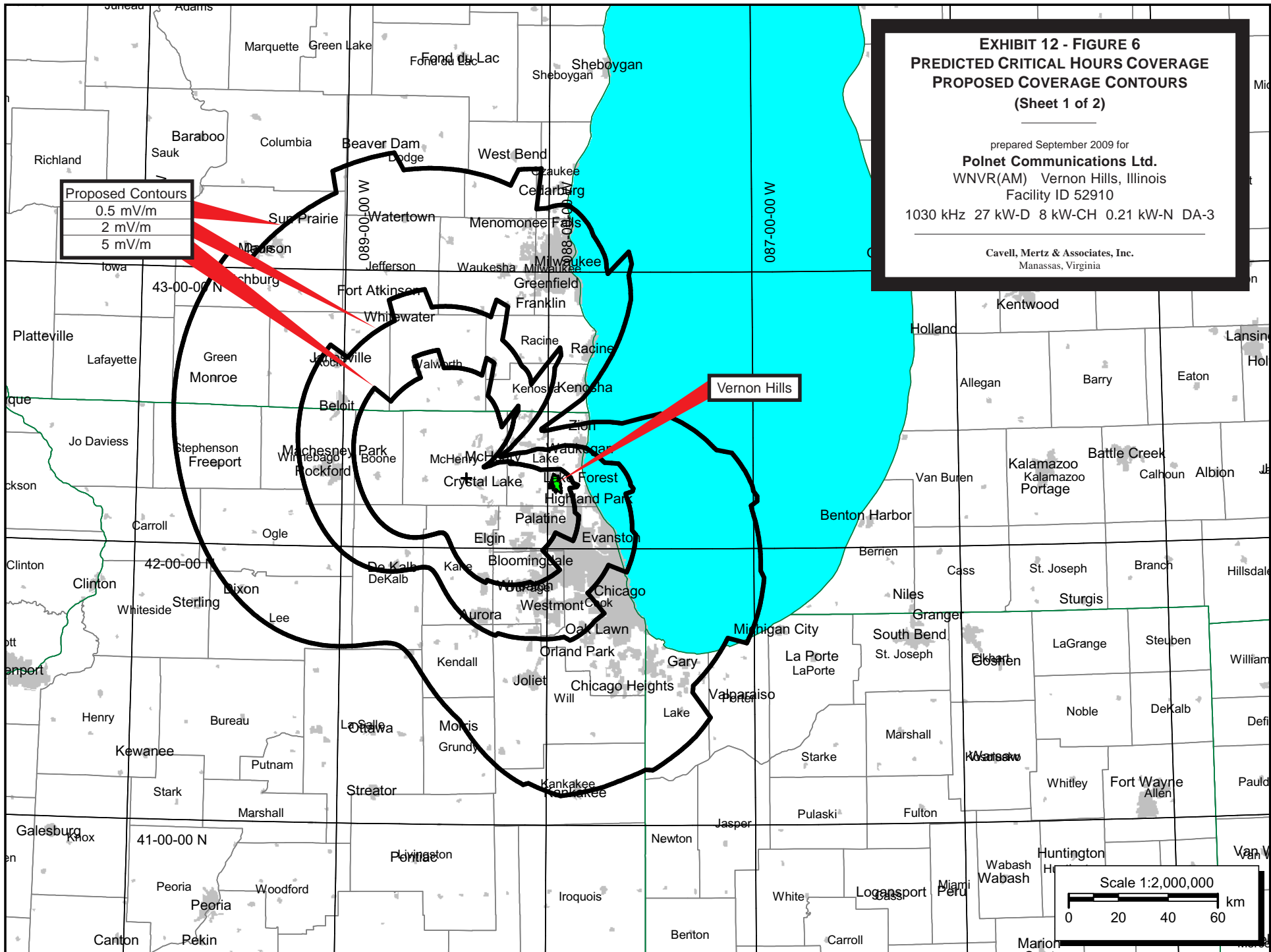


EXHIBIT 12 - FIGURE 6
PREDICTED CRITICAL HOURS COVERAGE
PROPOSED COVERAGE CONTOURS
(Sheet 1 of 2)

prepared September 2009 for

Polnet Communications Ltd.

WNVN(AM) Vernon Hills, Illinois

Facility ID 52910

1030 kHz 27 kW-D 8 kW-CH 0.21 kW-N DA-3

Cavell, Mertz & Associates, Inc.

Manassas, Virginia

