EXHIBIT 11.1
DESCRIPTION OF PROPOSED ANTENNA SYSTEM

DAYTIME/NIGHTTIME ANTENNA SYSTEM

1. The daytime/nighttime antenna system consists of four (4) vertical guyed, uniform cross-section steel towers. All four towers are employed for daytime and nighttime operation, however different daytime and nighttime constants are used. All towers stand 90.0° or 83.3 meters above varying levels of base pier and insulators for heights ranging from 84.8 meters to 85.5 meters Above Ground Level (AGL) with obstruction lighting. Actual heights and Antenna Structure Registration numbers have been included in ***Exhibit 11.2***.

2. The proposed ground system will consist of 120 buried copper radials, extending 83.3 meters in length, about the base of the towers except where shortened to terminate at property boundaries or transverse copper straps running midway between the towers. The material used for the radials will be #10 AWG, soft drawn copper wire.

3. The proposed day antenna system theoretical parameters are as follows:

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1(W)	1.205	-7.1	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2(N)	1.000	0.0	180.0	35.0	90.0	0	0	0.0	0.0	0.0	0.0
3(S)	1.000	87.5	90.0	125.0	90.0	0	0	0.0	0.0	0.0	0.0
4(E)	0.830	94.6	180.0	35.0	90.0	1	0	0.0	0.0	0.0	0.0

Theoretical RMS: 2021.31 mV/m@1km Erss = 2423.89 mV/m@1km
Standard RMS: 2123.68 mV/m@1km Q = 70.71 mV/m@1km

4. The night antenna system theoretical parameters are as follows:

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1(W)	0.551	-112.0	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2(N)	1.000	0.0	180.0	35.0	90.0	0	0	0.0	0.0	0.0	0.0
3(S)	0.457	5.2	90.0	125.0	90.0	0	0	0.0	0.0	0.0	0.0
4(E)	0.229	171.6	180.0	35.0	90.0	1	0	0.0	0.0	0.0	0.0

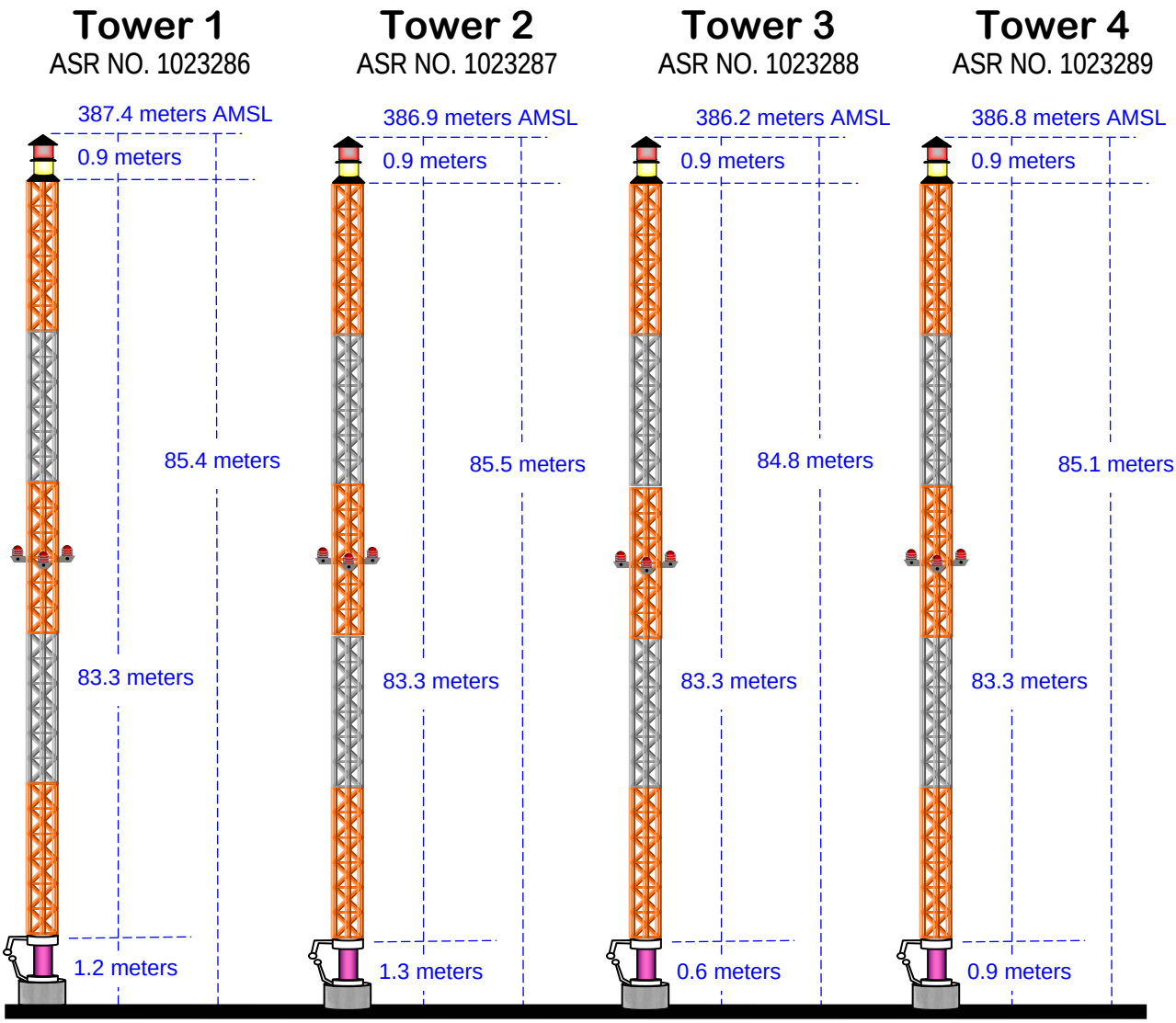
Theoretical RMS: 221.02 mV/m@1km Erss = 268.59 mV/m@1km
Standard RMS: 232.31 mV/m@1km Q = 10.00 mV/m@1km

5. The sampling system for the proposed array will conform to §73.68 of the Commission's Rules regarding approved sampling systems.

EXHIBIT 11.2
VERTICAL PLAN OF ANTENNA SYSTEM

Site Location
NL: 44° 59' 24"
WL: 92° 58' 52"

The site is located at 2754 Geneva Ave,
City of Oakdale, Minnesota.



Tower 1 Ground Elevation = 302.0 m AMSL
Tower 2 Ground Elevation = 301.4 m AMSL
Tower 3 Ground Elevation = 301.4 m AMSL
Tower 4 Ground Elevation = 301.7 m AMSL

Drawing is not to Scale

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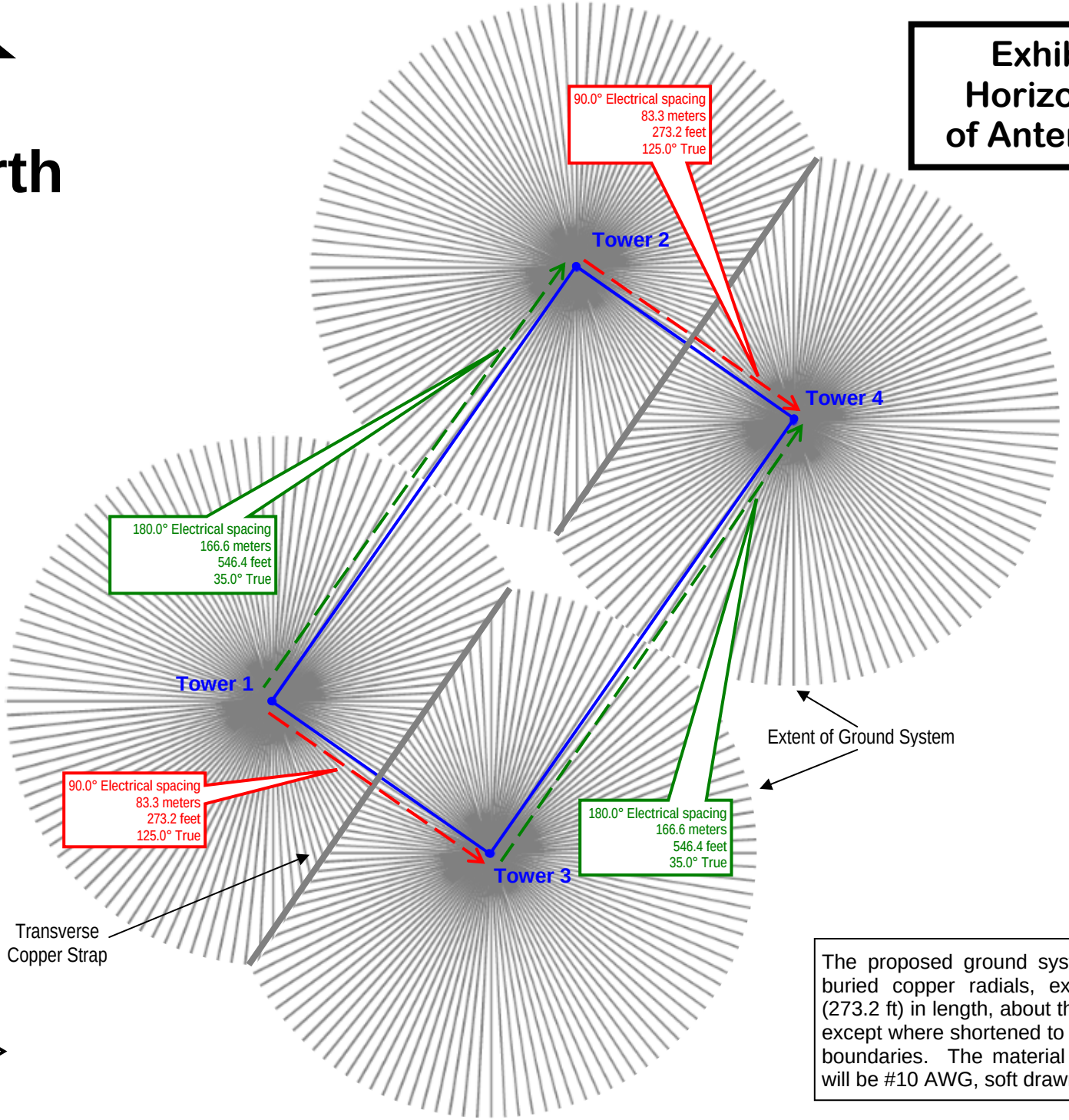
Exhibit 11.3
Horizontal Plat of Antenna Array

North



The proposed ground system consists of 120 buried copper radials, extending 83.3 meters (273.2 ft) in length, about the base of the towers except where shortened to terminate at property boundaries. The material used for the radials will be #10 AWG, soft drawn copper wire

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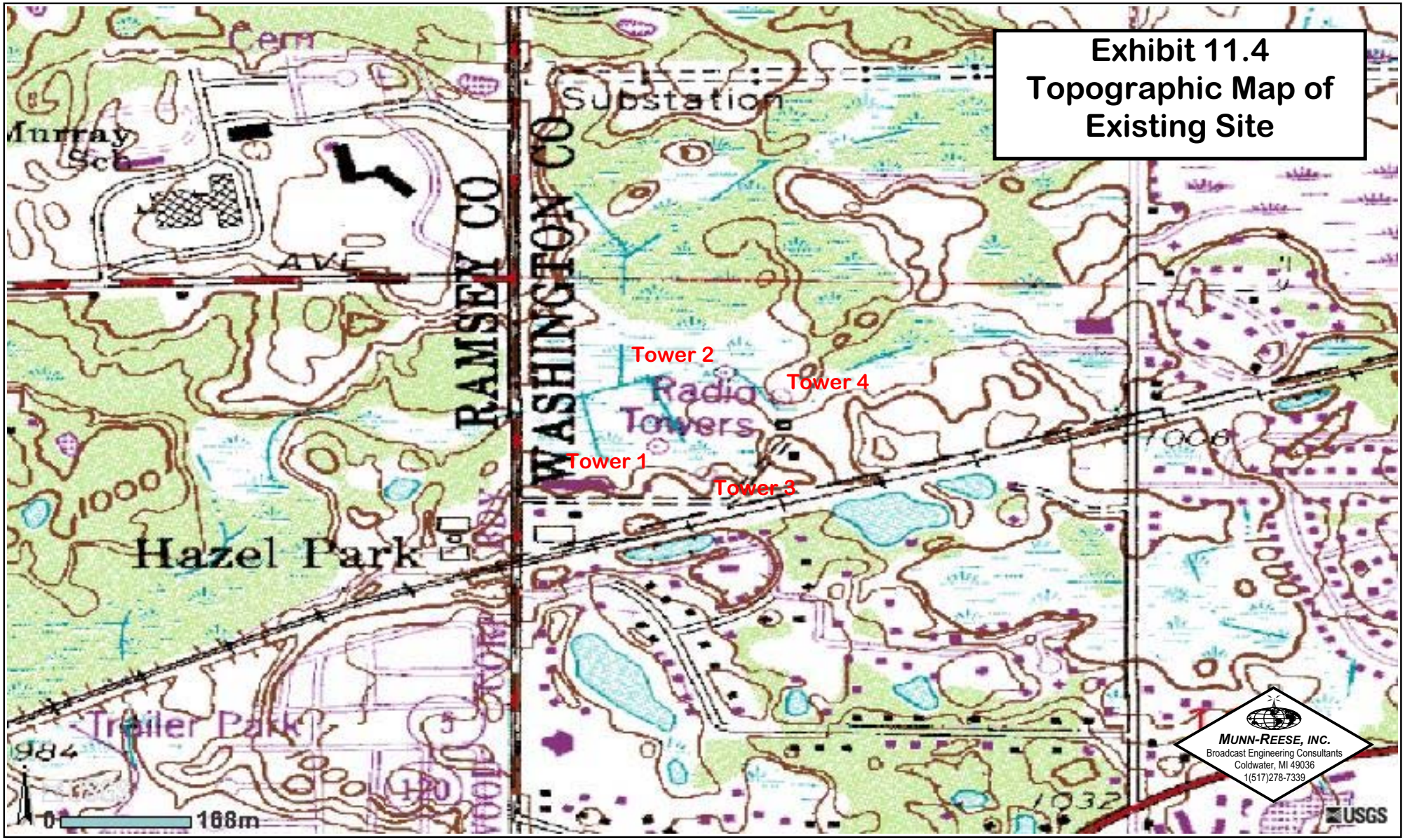
Exhibit 11.4
Topographic Map of Existing Site



USGS
science for a changing world

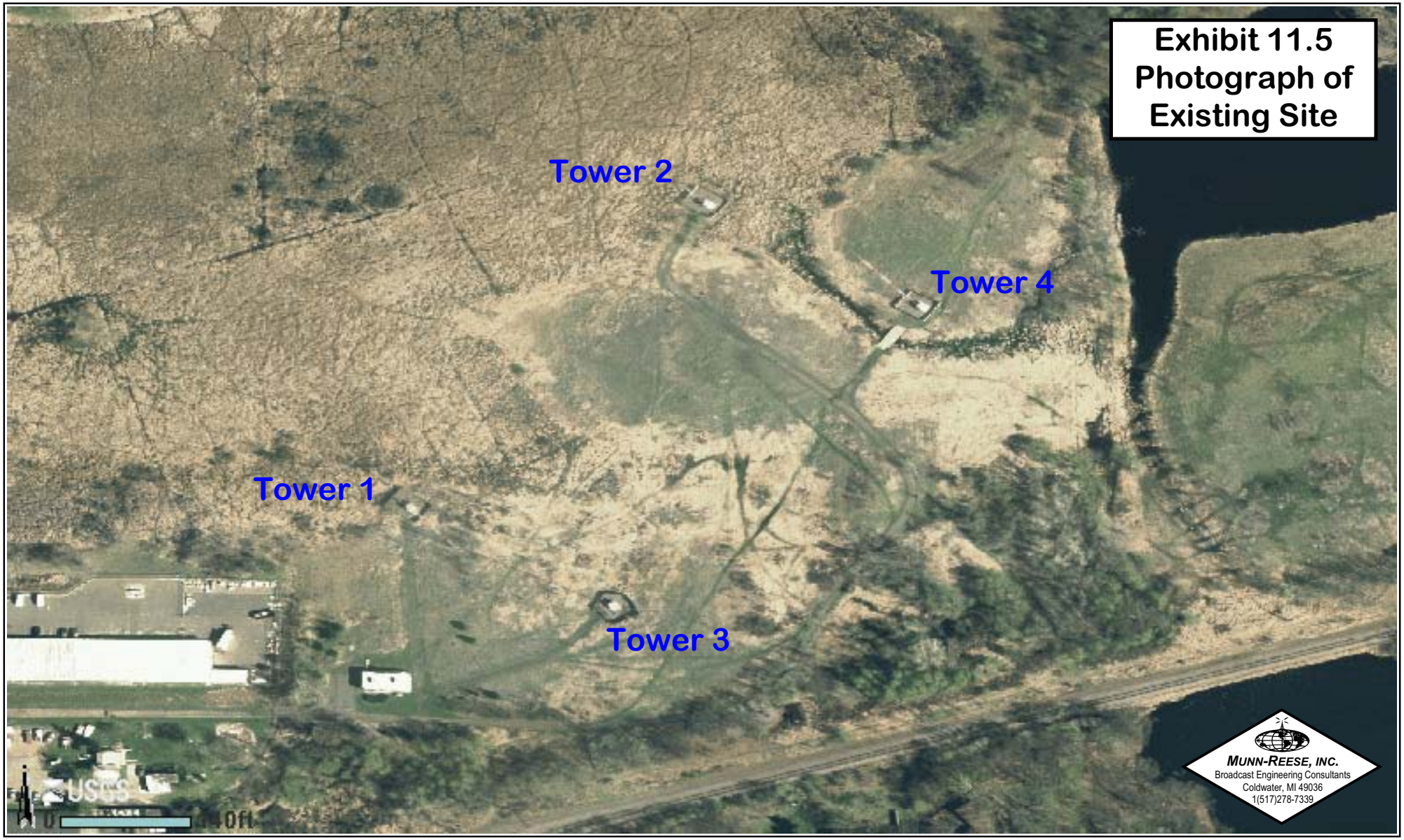
44.99664

-92.99293 Map Extent -92.97036

44.98321

The National Map
http://nationalmap.gov/

Geographic Coordinate System (WGS84)



USGS
science for a changing world

44.99156
-92.98413 Map Extent -92.978485
44.988205

The National Map
http://nationalmap.gov/

Geographic Coordinate System (WGS84)

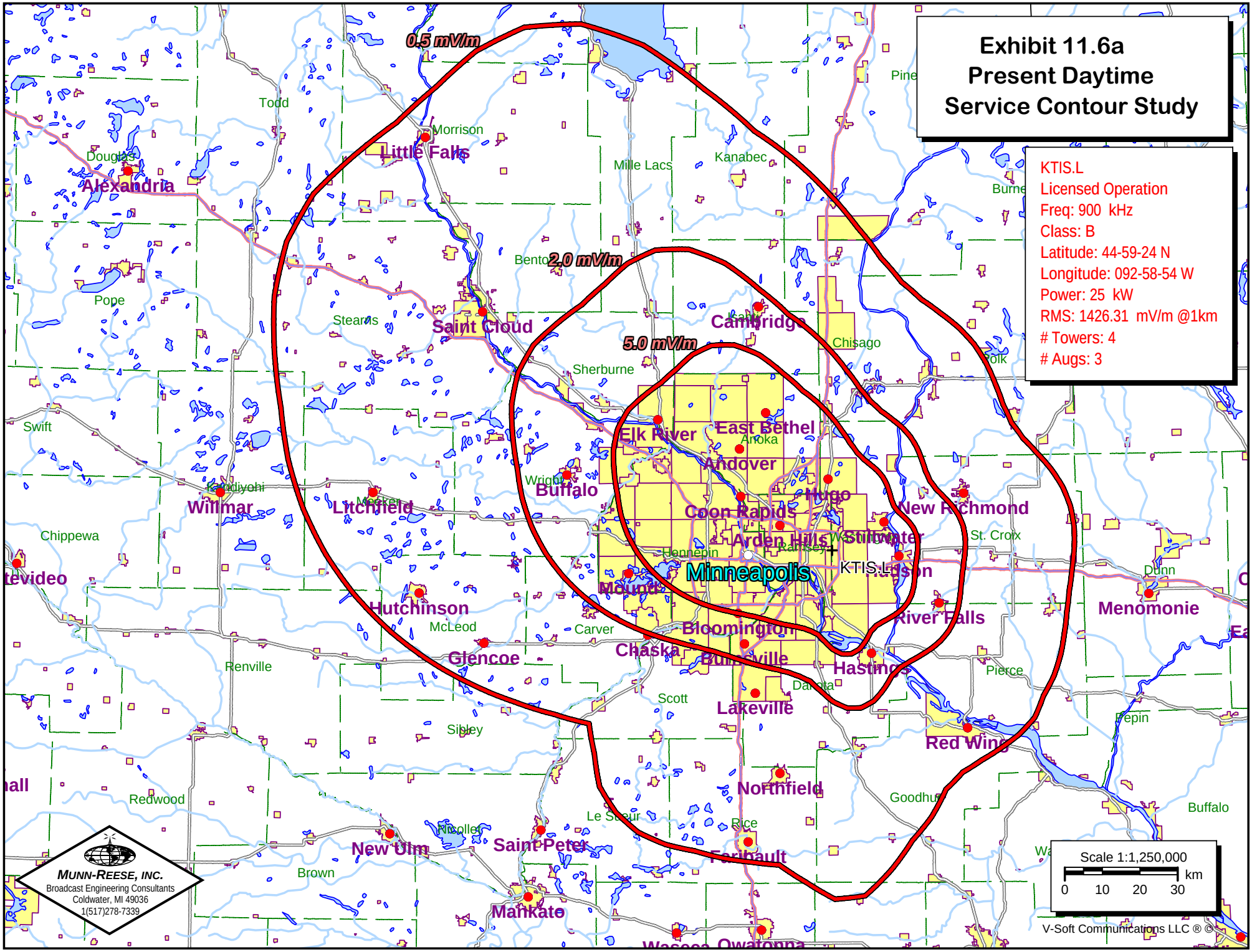


Exhibit 11.6a
Present Daytime
Service Contour Study
KTIS.L
Licensed Operation
Freq: 900 kHz
Class: B
Latitude: 44-59-24 N
Longitude: 092-58-54 W
Power: 25 kW
RMS: 1426.31 mV/m @1km
Towers: 4
Augs: 3
0.5 mV/m
2.0 mV/m
5.0 mV/m
KTIS
Minneapolis
Saint Cloud
Alexandria
Little Falls
Willmar
Litchfield
Buffalo
Elk River
East Bethel
Andover
Hugo
Coon Rapids
Arden Hills
Stillwater
New Richmond
River Falls
Menomonie
Hutchinson
Glencoe
Chaska
Bloomington
Hastings
Lakeville
Northfield
New Ulm
Saint Peter
Mankato
Faribault
Red Wing
Cambridge
Todd
Morrison
Douglas
Pope
Stearns
Sherburne
Chisago
Kanabec
Mille Lacs
Swift
Kandiyohi
Chippewa
Renville
McLeod
Carver
Scott
Sibley
Redwood
Brown
Nicollet
Le Sueur
Rice
Goodhue
Wabasha
Pierce
Dakota
Hennepin
Ramsey
Anoka
Wright
Meeker
St. Croix
Dunn
Pepin
Buffalo
Scale 1:1,250,000
km
0 10 20 30
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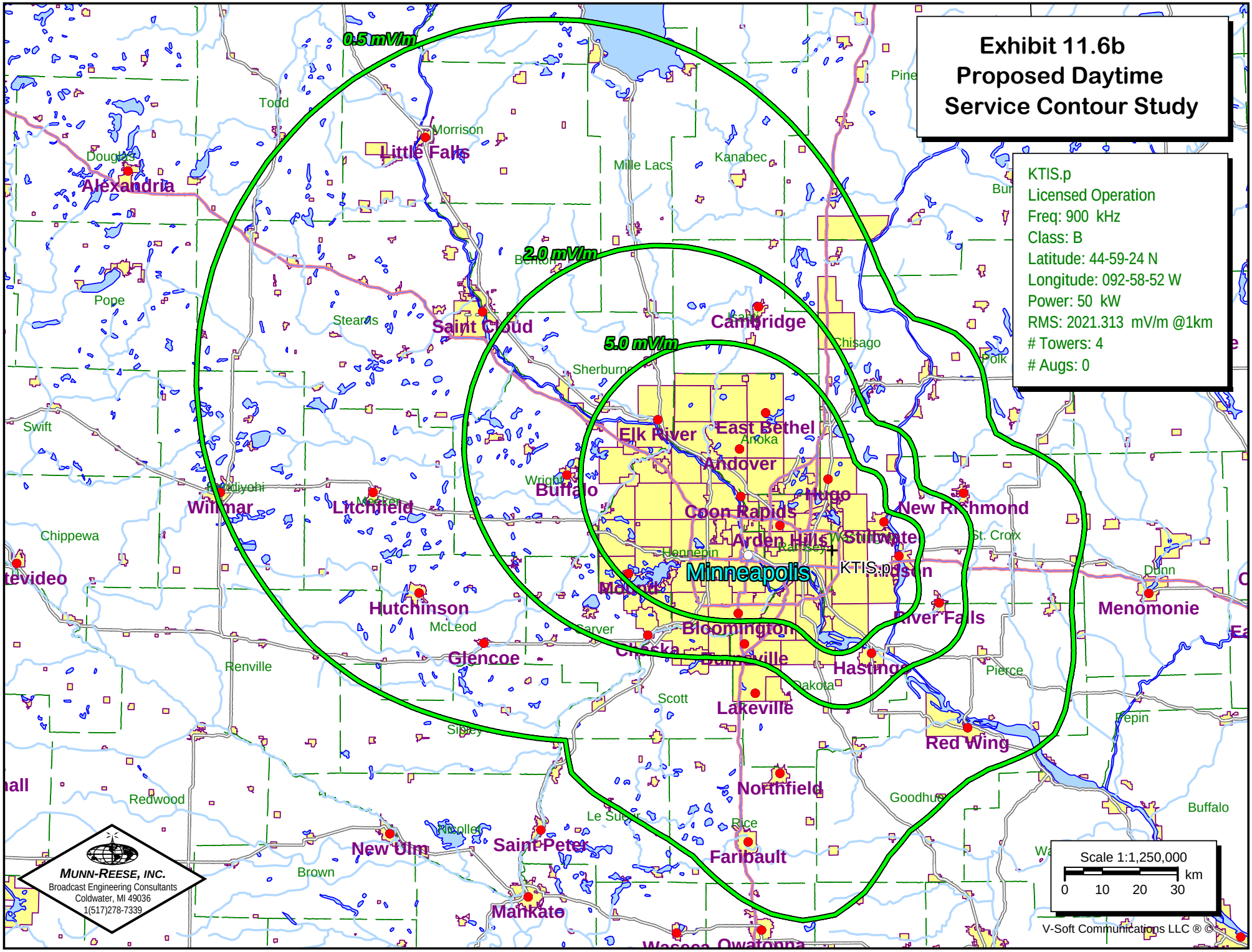
Exhibit 11.6b
Proposed Daytime
Service Contour Study
KTIS.p
Licensed Operation
Freq: 900 kHz
Class: B
Latitude: 44-59-24 N
Longitude: 092-58-52 W
Power: 50 kW
RMS: 2021.313 mV/m @1km
Towers: 4
Augs: 0
0.5 mV/m
2.0 mV/m
5.0 mV/m
KTIS.p
Minneapolis
Alexandria
Little Falls
Saint Cloud
Cambridge
Elk River
East Bethel
Andover
Hugo
Coon Rapids
Arden Hills
New Richmond
Stillwater
Buffalo
Litchfield
Willmar
Hutchinson
Glencoe
Bloomington
Hastings
River Falls
Menomonie
Lakeville
Red Wing
Northfield
New Ulm
Saint Peter
Faribault
Mankato
Todd
Morrison
Douglas
Mille Lacs
Kanabec
Pine
Pope
Stearns
Sherburne
Chisago
Swift
Chippewa
McLeod
Renville
Scott
Sibley
Redwood
Brown
Nicollet
Le Sueur
Rice
Goodhue
Wabasha
Pierce
Dakota
Dunn
St. Croix
Ramsey
Hennepin
Anoka
Wright
Carver
Polk
Buffalo
Scale 1:1,250,000
km
0 10 20 30
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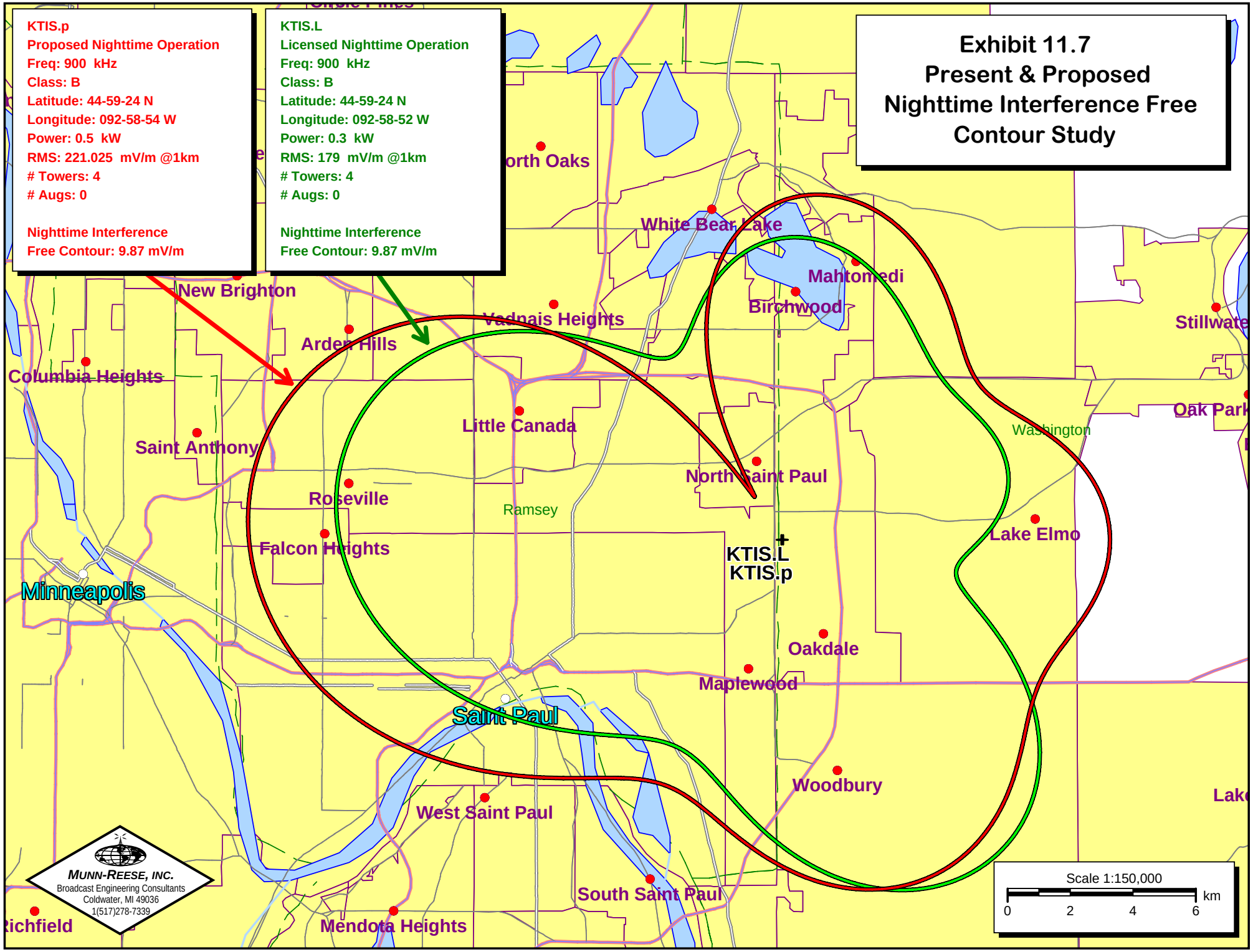
KTIS.p
Proposed Nighttime Operation
Freq: 900 kHz
Class: B
Latitude: 44-59-24 N
Longitude: 092-58-54 W
Power: 0.5 kW
RMS: 221.025 mV/m @1km
Towers: 4
Augs: 0
Nighttime Interference
Free Contour: 9.87 mV/m
KTIS.L
Licensed Nighttime Operation
Freq: 900 kHz
Class: B
Latitude: 44-59-24 N
Longitude: 092-58-52 W
Power: 0.3 kW
RMS: 179 mV/m @1km
Towers: 4
Augs: 0
Nighttime Interference
Free Contour: 9.87 mV/m
Exhibit 11.7
Present & Proposed
Nighttime Interference Free
Contour Study
White Bear Lake
Mahtomedi
Birchwood
New Brighton
Vadnais Heights
Arden Hills
Columbia Heights
Little Canada
Saint Anthony
Roseville
Ramsey
North Saint Paul
Falcon Heights
KTIS.L
KTIS.p
Lake Elmo
Minneapolis
Oakdale
Maplewood
Saint Paul
Woodbury
West Saint Paul
South Saint Paul
Mendota Heights
Washington
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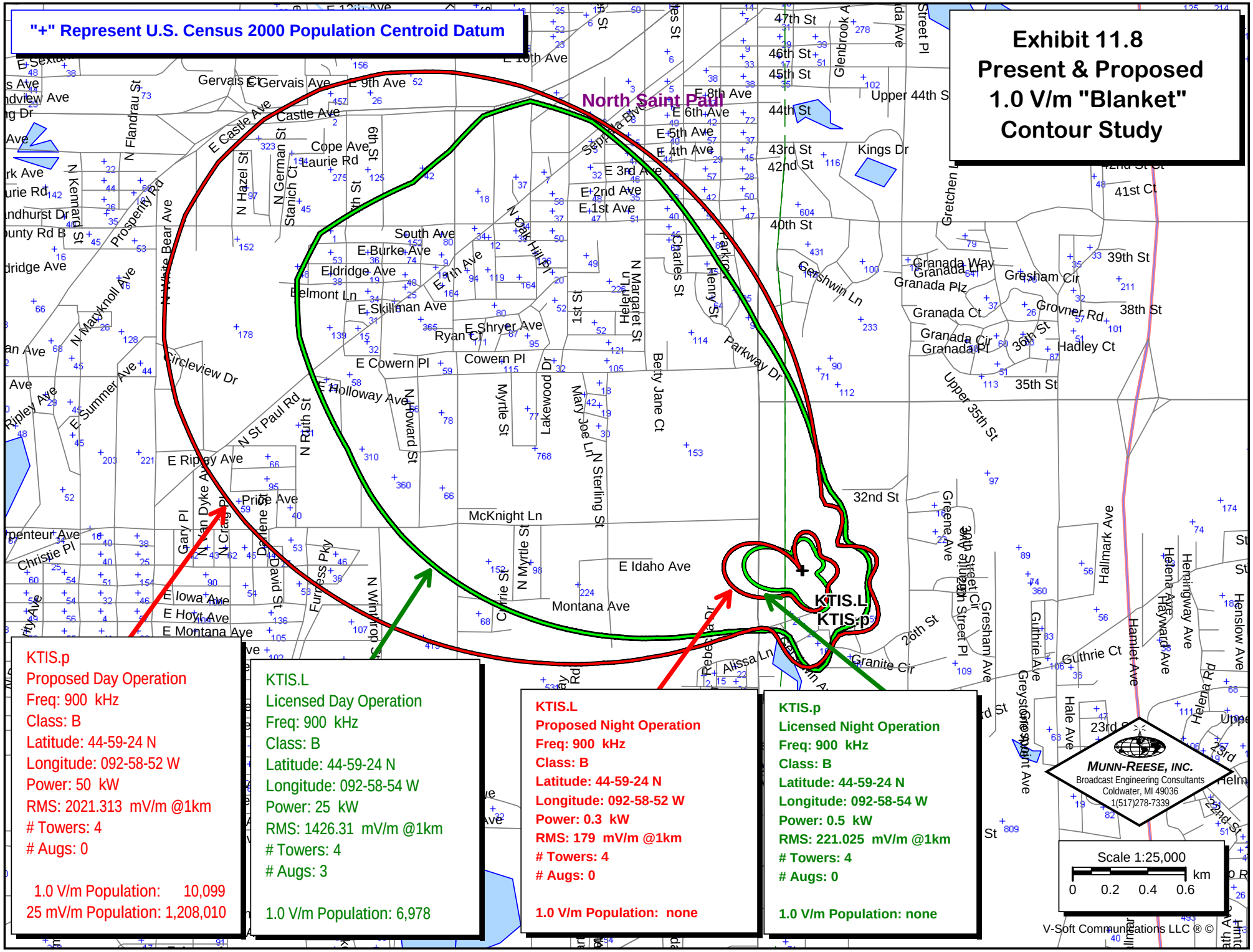
Scale 1:150,000
0 2 4 6 km


"+" Represent U.S. Census 2000 Population Centroid Datum
Exhibit 11.8
Present & Proposed
1.0 V/m "Blanket"
Contour Study
North Saint Paul
KTIS.L
KTIS.p
KTIS.p
Proposed Day Operation
Freq: 900 kHz
Class: B
Latitude: 44-59-24 N
Longitude: 092-58-52 W
Power: 50 kW
RMS: 2021.313 mV/m @1km
Towers: 4
Augs: 0
1.0 V/m Population: 10,099
25 mV/m Population: 1,208,010
KTIS.L
Licensed Day Operation
Freq: 900 kHz
Class: B
Latitude: 44-59-24 N
Longitude: 092-58-54 W
Power: 25 kW
RMS: 1426.31 mV/m @1km
Towers: 4
Augs: 3
1.0 V/m Population: 6,978
KTIS.L
Proposed Night Operation
Freq: 900 kHz
Class: B
Latitude: 44-59-24 N
Longitude: 092-58-52 W
Power: 0.3 kW
RMS: 179 mV/m @1km
Towers: 4
Augs: 0
1.0 V/m Population: none
KTIS.p
Licensed Night Operation
Freq: 900 kHz
Class: B
Latitude: 44-59-24 N
Longitude: 092-58-54 W
Power: 0.5 kW
RMS: 221.025 mV/m @1km
Towers: 4
Augs: 0
1.0 V/m Population: none
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Scale 1:25,000
km
0 0.2 0.4 0.6
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