

EXHIBIT 11.1

DESCRIPTION OF PROPOSED ANTENNA SYSTEM

ANTENNA SYSTEM

1. The daytime antenna system consists of one (1) vertical, guyed, uniform cross section steel tower mounted above a concrete base pier and insulator. The daytime non-directional tower is also tower two of the three tower nighttime antenna array. All towers are identical. Each tower stands 73.4° or 48.2 meters above a 1.2 meter base pier and insulator for a height of 49.4 meters AGL without obstruction lighting. No obstruction lighting is required. Given the site elevation of 206.7 meters AMSL, the top of the towers will stand at 256.1 meters AMSL. Antenna Structure Registration is not required.
2. The existing ground system consists of 120 buried copper radials, extending 59.01 meters (193.6 feet) in length, about the base of each tower. Radials run the entire length except where shortened to terminate at property boundaries or the transverse copper strap running midway between the towers. The material used for the radials is #10 AWG, soft drawn copper wire or equivalent.
3. The theoretical efficiency for the proposed daytime operation will be 294.99 mV/m/kW at 1 km. Given the daytime operating power of 27.0 kW, the theoretical radiation will be 1532.8 mV/m at 1 km.

Nighttime operation will remain unchanged.

Exhibit 11.2

Vertical Plan of Antenna System

This site is located at the intersection of Loeb and Novotny Rds.
1.9 miles SSE of Charlevoix, Michigan.

Center of Array
NL: 45° 16' 22"
WL: 85° 15' 08"

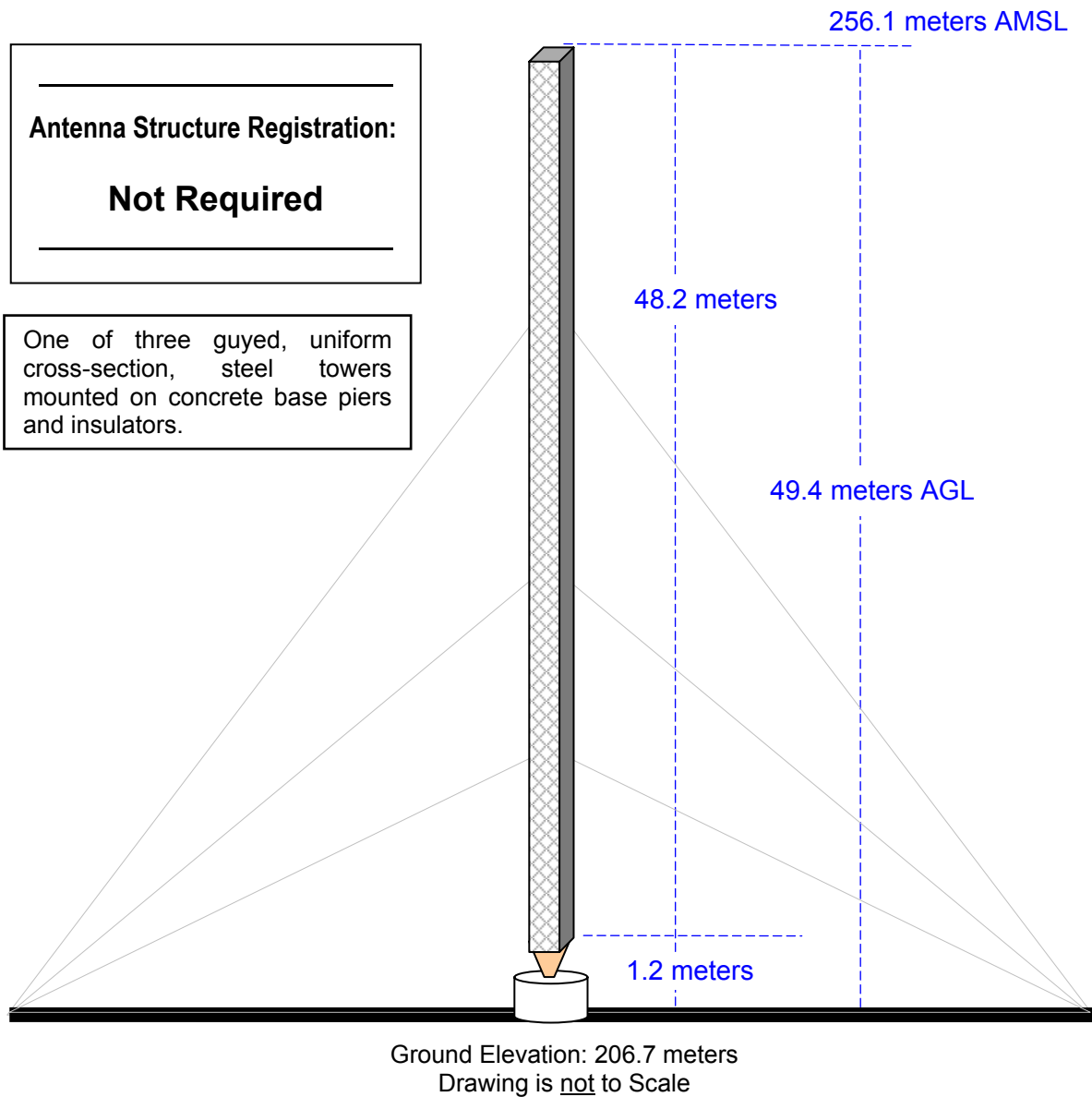
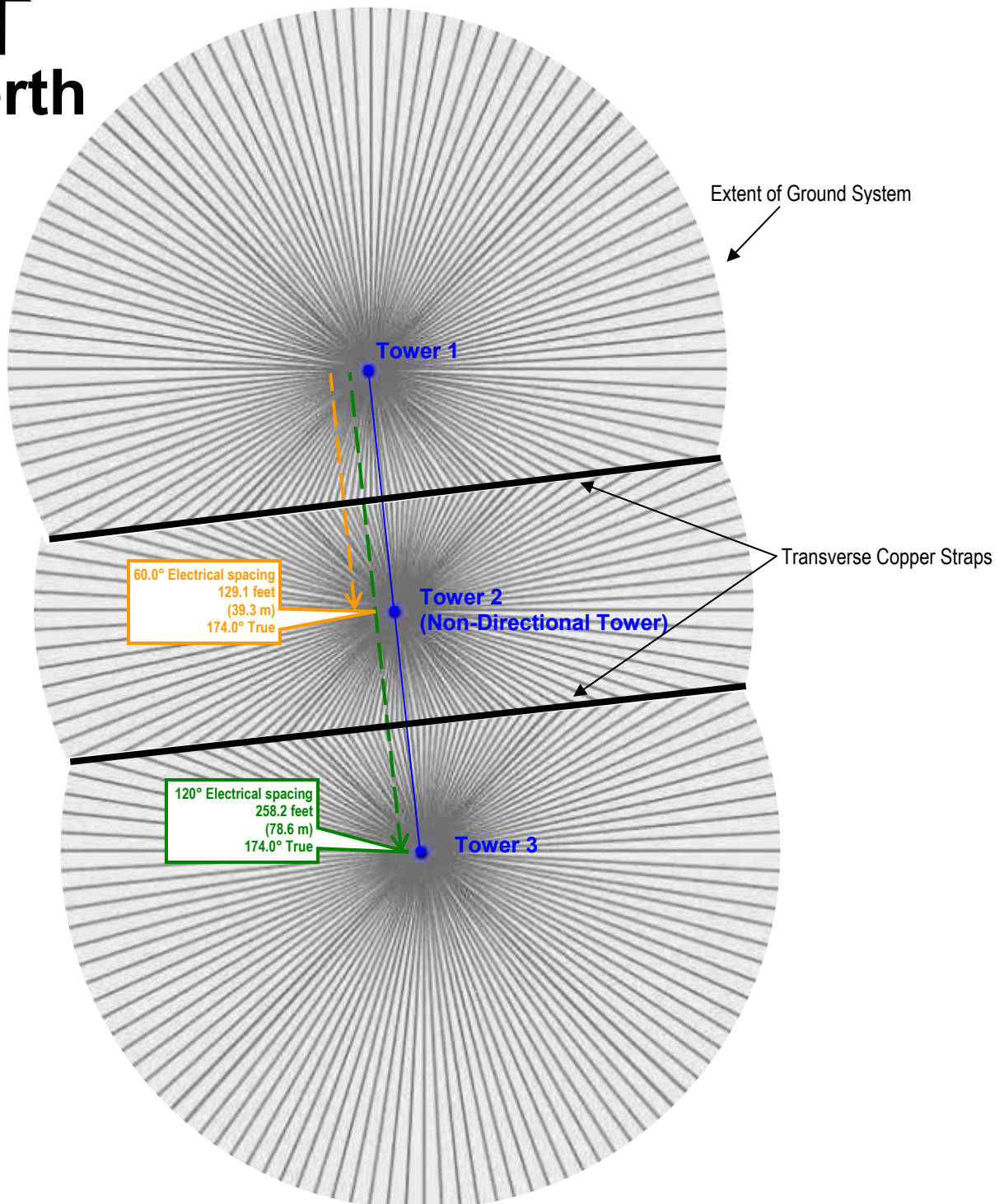


Exhibit 11.3 – Horizontal Plat of Antenna Array

↑
North

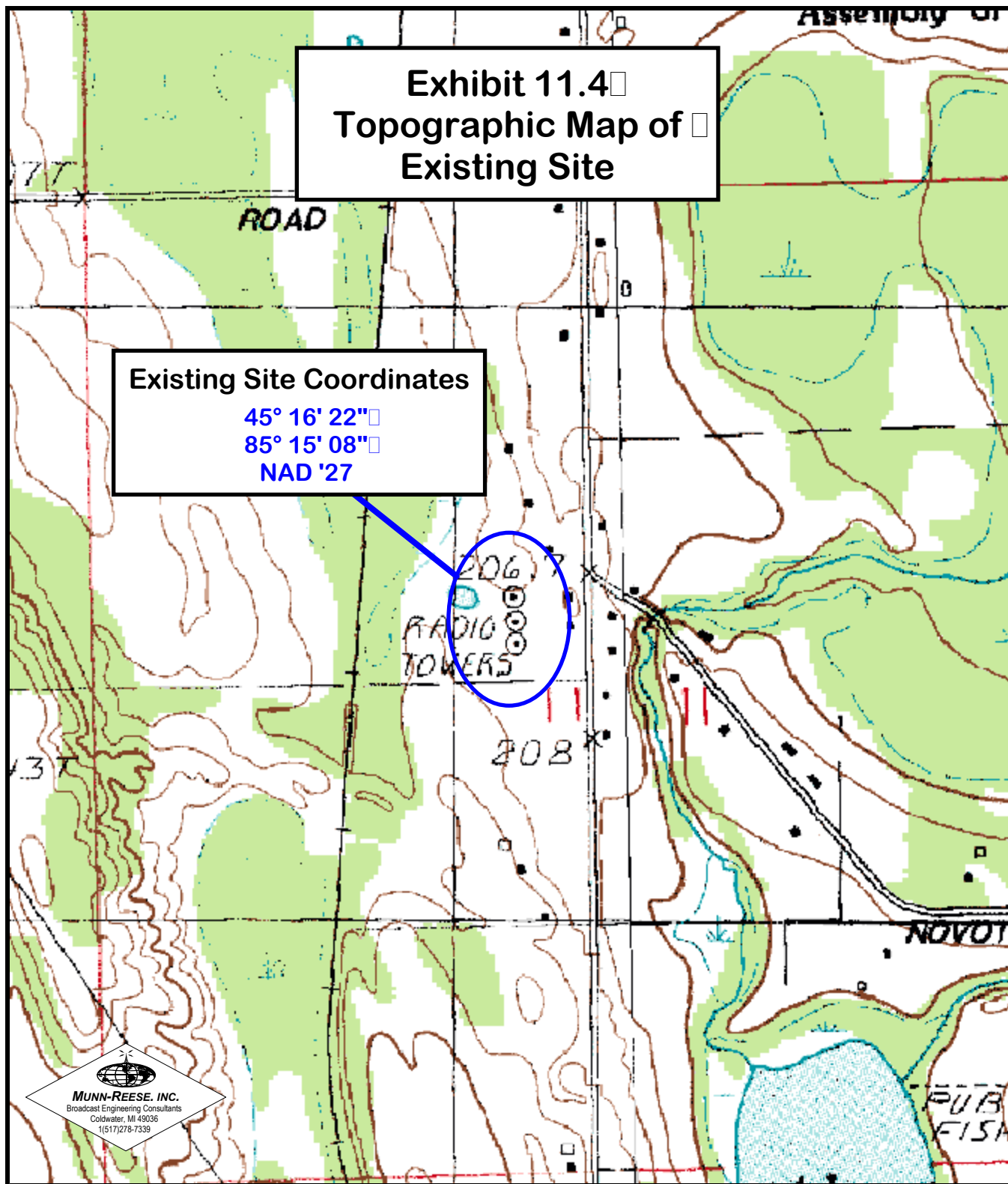


The proposed ground system consists of 120 buried copper radials, extending 59.0 meters in length, about the base of the towers except where shortened to terminate at property boundaries. The material used for the radials will be #10 AWG, soft drawn copper wire

Exhibit 11.4
Topographic Map of
Existing Site

Existing Site Coordinates

45° 16' 22"
85° 15' 08"
NAD '27



Kilometers



Miles



Charlevoix, MI
USGS 7.5 minute
Quadrangle

Exhibit 11.5
Photograph of
Existing Site

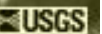
Tower 1

Tower 2

Tower 3



Photograph Taken April 27, 1998



WMKT.L

Freq: 1270 kHz

Class: B

Latitude: 45-16-22 N

Longitude: 085-15-08 W

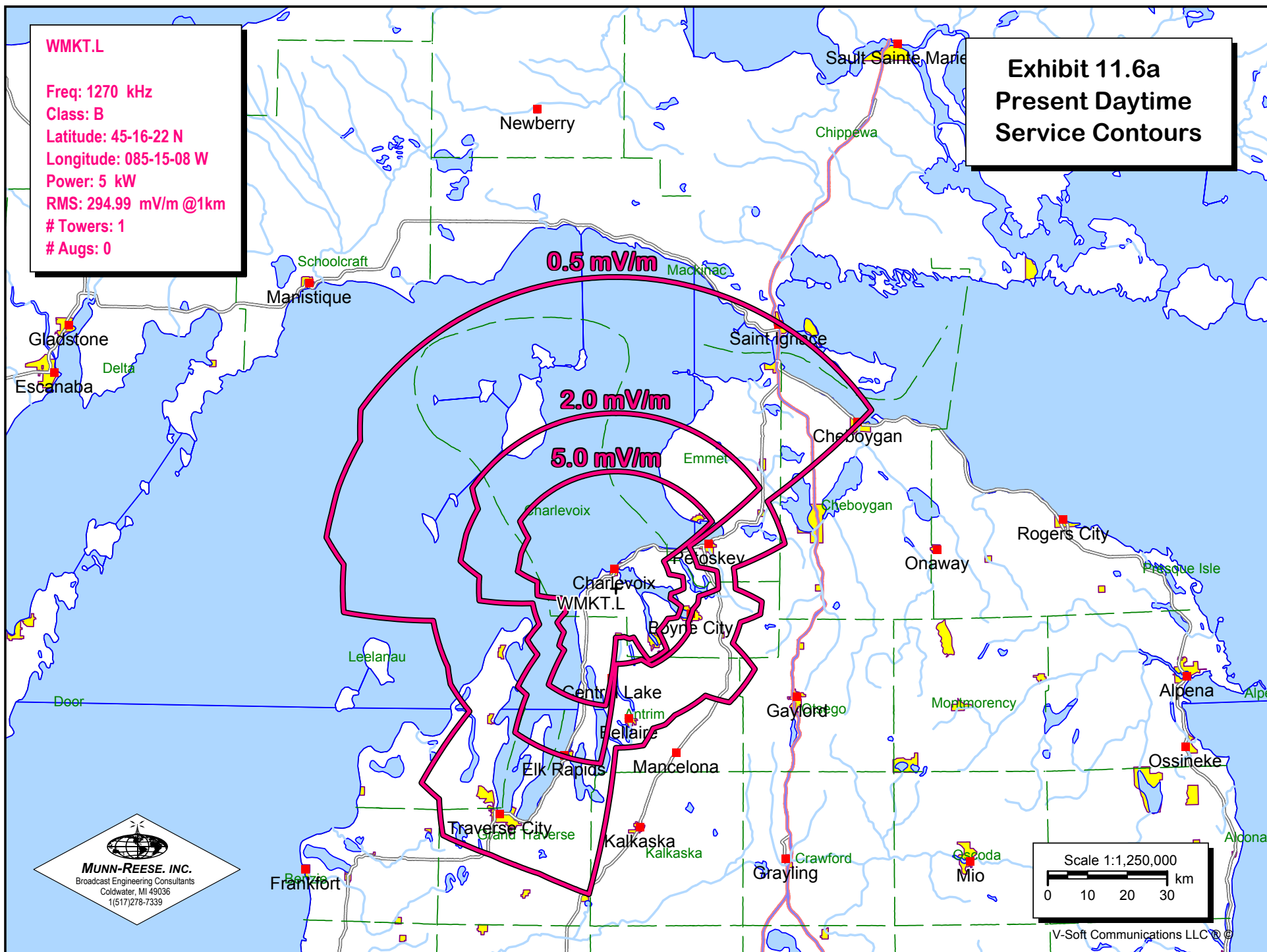
Power: 5 kW

RMS: 294.99 mV/m @1km

Towers: 1

Augs: 0

**Exhibit 11.6a
Present Daytime
Service Contours**



MUNN-REESE, INC.
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Coldwater, MI 49036
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WMKT.prop

Freq: 1270 kHz

Class: B

Latitude: 45-16-22 N

Longitude: 085-15-08 W

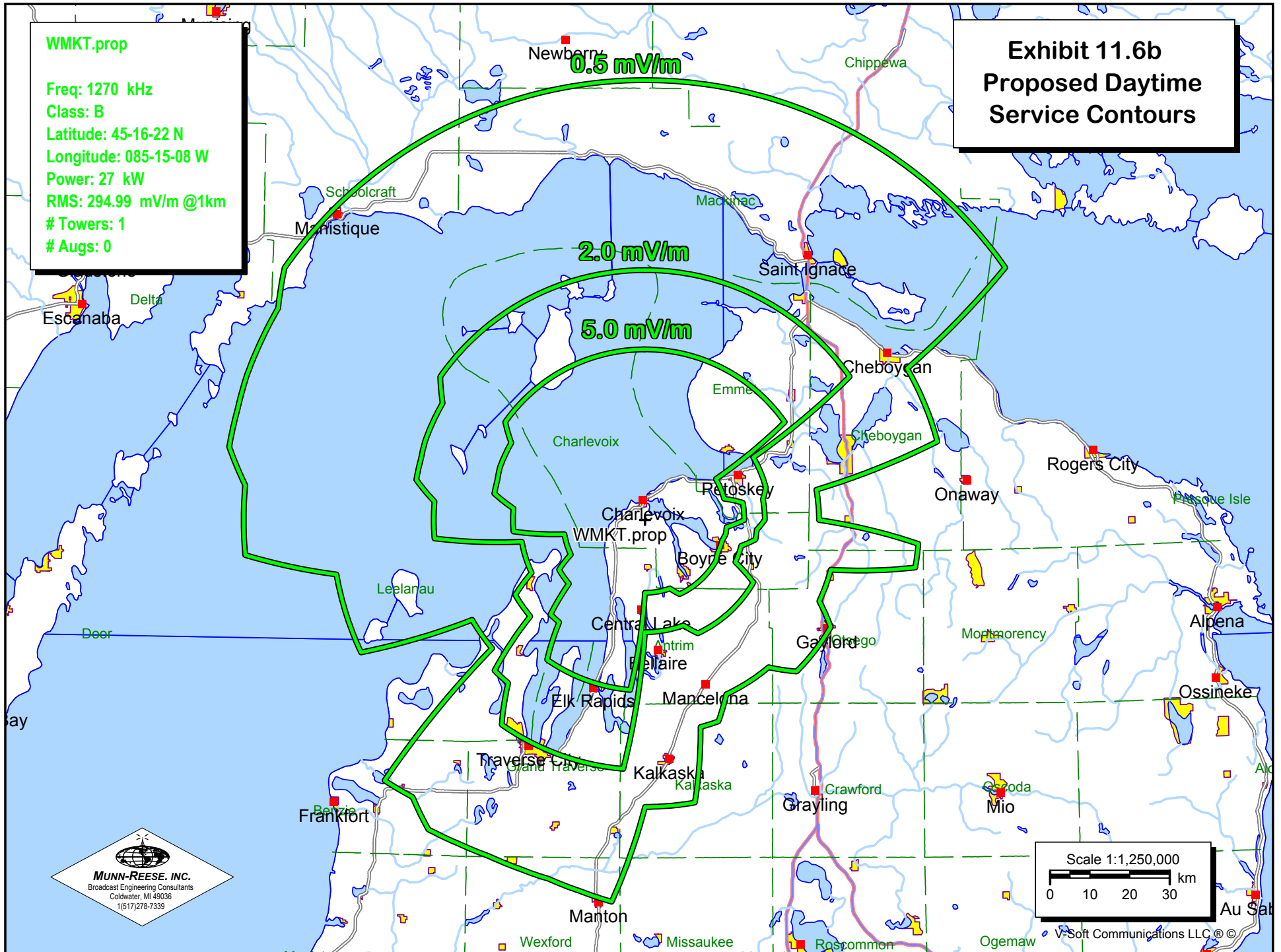
Power: 27 kW

RMS: 294.99 mV/m @1km

Towers: 1

Augs: 0

Exhibit 11.6b Proposed Daytime Service Contours



WMKT present Daytime
Freq: 1270 kHz
Class: B
Latitude: 45-16-22 N
Longitude: 085-15-08 W
Power: 5 kW
RMS: 294.99 mV/m @1km
Towers: 1
Aucs: 0
Total 1.0 V/m Population: none

WMKT proposed Daytime
Freq: 1270 kHz
Class: B
Latitude: 45-16-22 N
Longitude: 085-15-08 W
Power: 27 kW
RMS: 294.99 mV/m @1km
Towers: 1
Aucs: 0
Total 1.0 V/m Population: 311
Total 25.0 mV/m Population : 11,218

Exhibit 11.7 Present & Proposed WMKT(AM) 1.0 V/m "Blanket Contour"

Proposed 1.0 V/m Contour

Present 1.0 V/m Contour



WMKT



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Scale 1:20,000

0 0.27 0.53 0.8 km

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