

EXHIBIT 10.1

DESCRIPTION OF PROPOSED ANTENNA SYSTEM

NON-DIRECTIONAL ANTENNA SYSTEM

1. The proposed antenna system consists of one (1) vertical, guyed, uniform cross section tower mounted above a concrete base pier and insulator. The tower will stand 79.6° or 45.7 meters above a 0.9 meter base pier and insulator for an Above Ground Level height of 46.6 meters AGL without obstruction lighting. No lighting is required for this height tower.
2. Given the site elevation of 289.6 meters AMSL, the top of the tower will stand at 336.2 meters AMSL. The tower does not require registration.
3. The proposed ground system will consist of 120 buried copper radials, varying in length from 26.7 meters (87.5 feet) to 51.8 meters (170 feet) in length, about the base of the tower. The average radial length has been calculated to be 42.1 meters (138 feet) or 0.203 wavelengths on 1450 kHz. The material used for the radials will be #10 AWG, soft drawn copper wire.
4. The theoretical efficiency for the proposed daytime tower is 298.80 mV/m/kW at 1 km. Due to the shortened ground system, the efficiency of the tower must be reduced by an additional 12.87 mV/m/kW at one kilometer. Therefore, the actual efficiency of the antenna will be 285.93 mV/m/kW at one kilometer. Given the operating power of 0.810 kW, the actual radiated field will be 257.33 mV/m at 1 km.

EXHIBIT 10.2

VERTICAL PLAN OF ANTENNA SYSTEM

This site is located on Dettman Road, just north of RR tracks.
Jackson, Jackson County, Michigan.

Center of Array

NL: 42° 14' 14"

WL: 84° 21' 52"

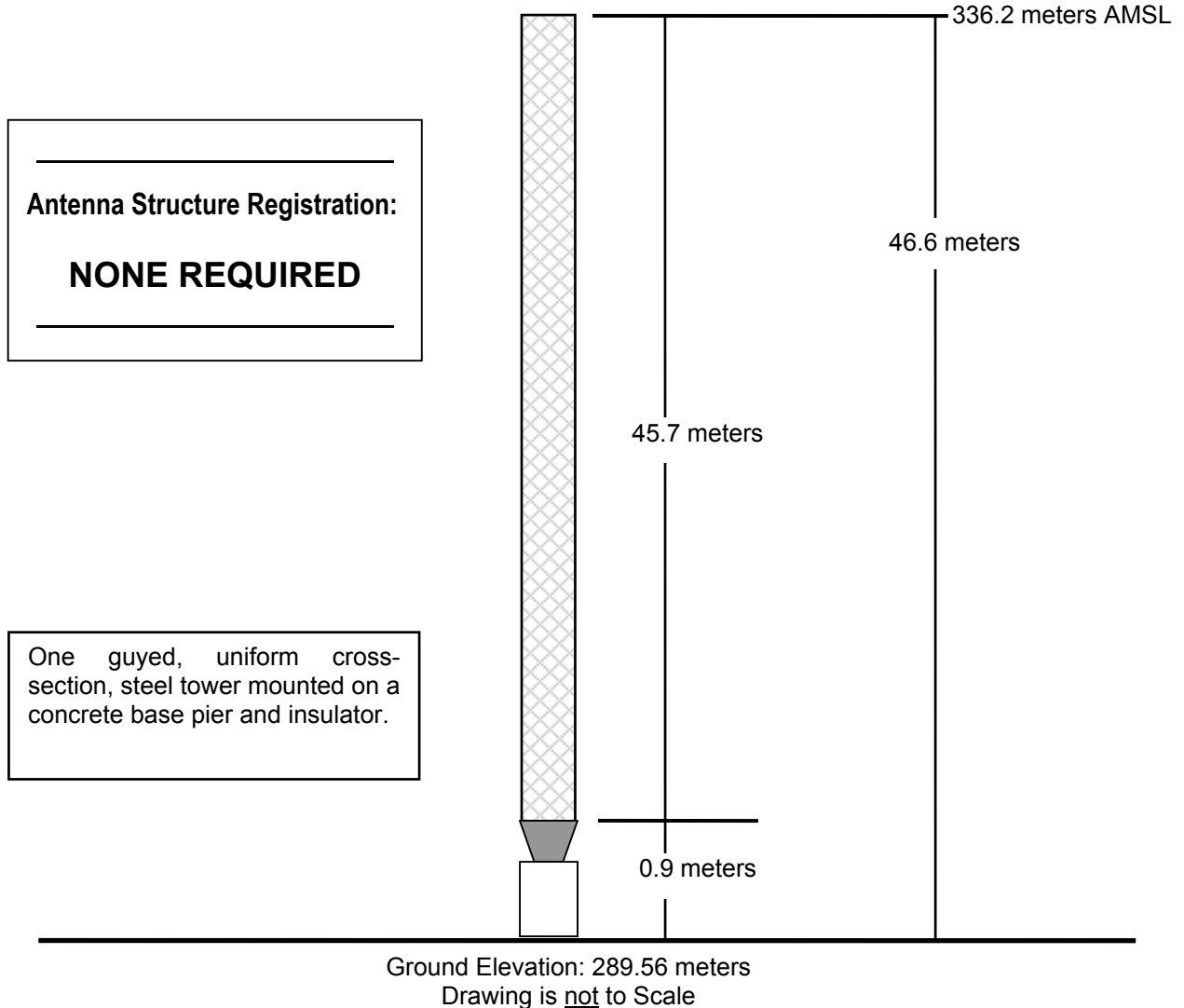
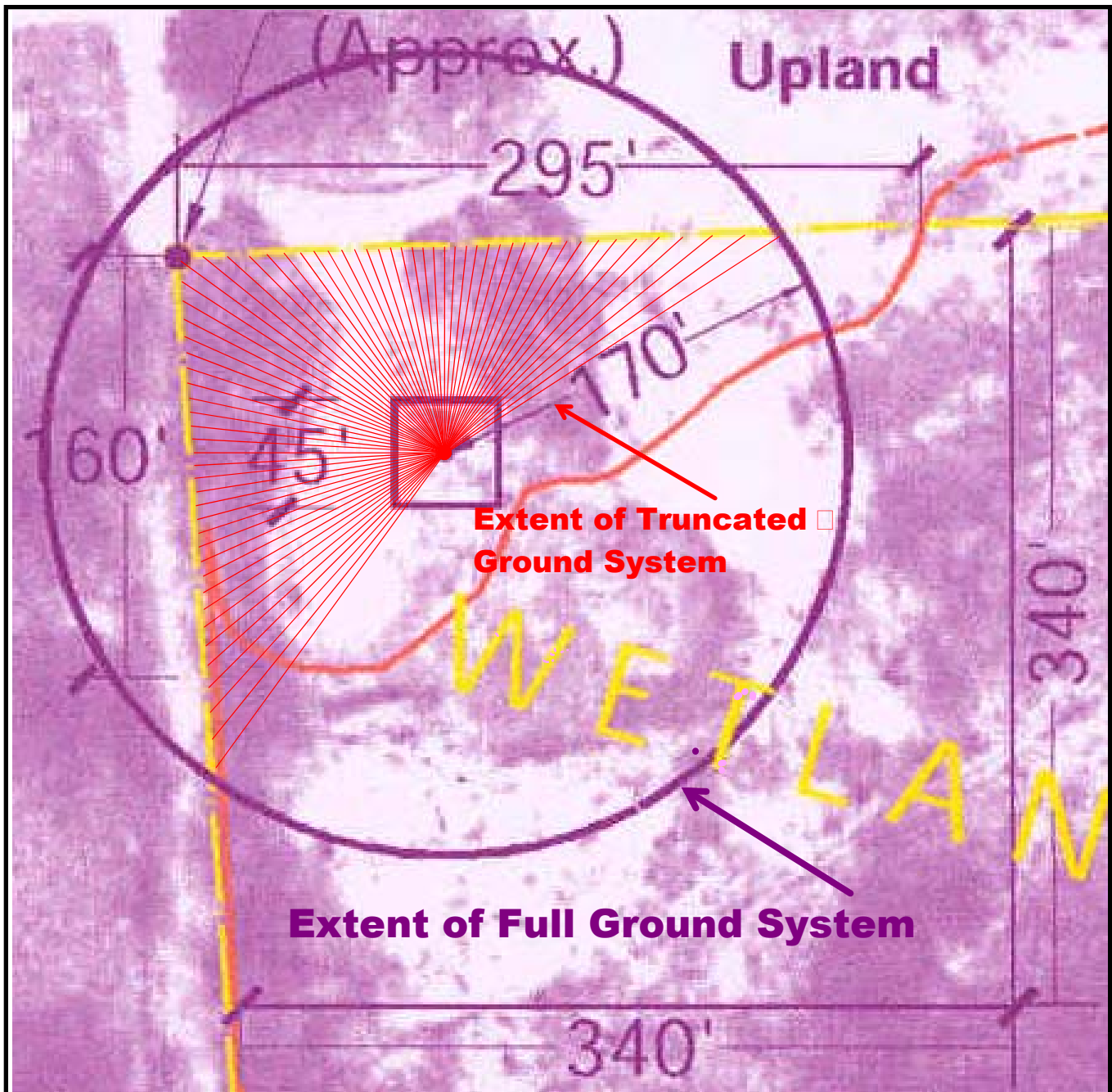


Exhibit 10.3

Horizontal Plan of Antenna System



The proposed ground system will consist of 120 buried copper radials, varying in length from 26.7 meters (87.5 feet) to 51.8 meters (170 feet) in length, about the base of the tower. The average radial length has been calculated to be 42.1 meters (138 feet) or 0.203 wavelengths on 1450 kHz. The material used for the radials will be #10 AWG, soft

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Broadcast Engineering Consultants
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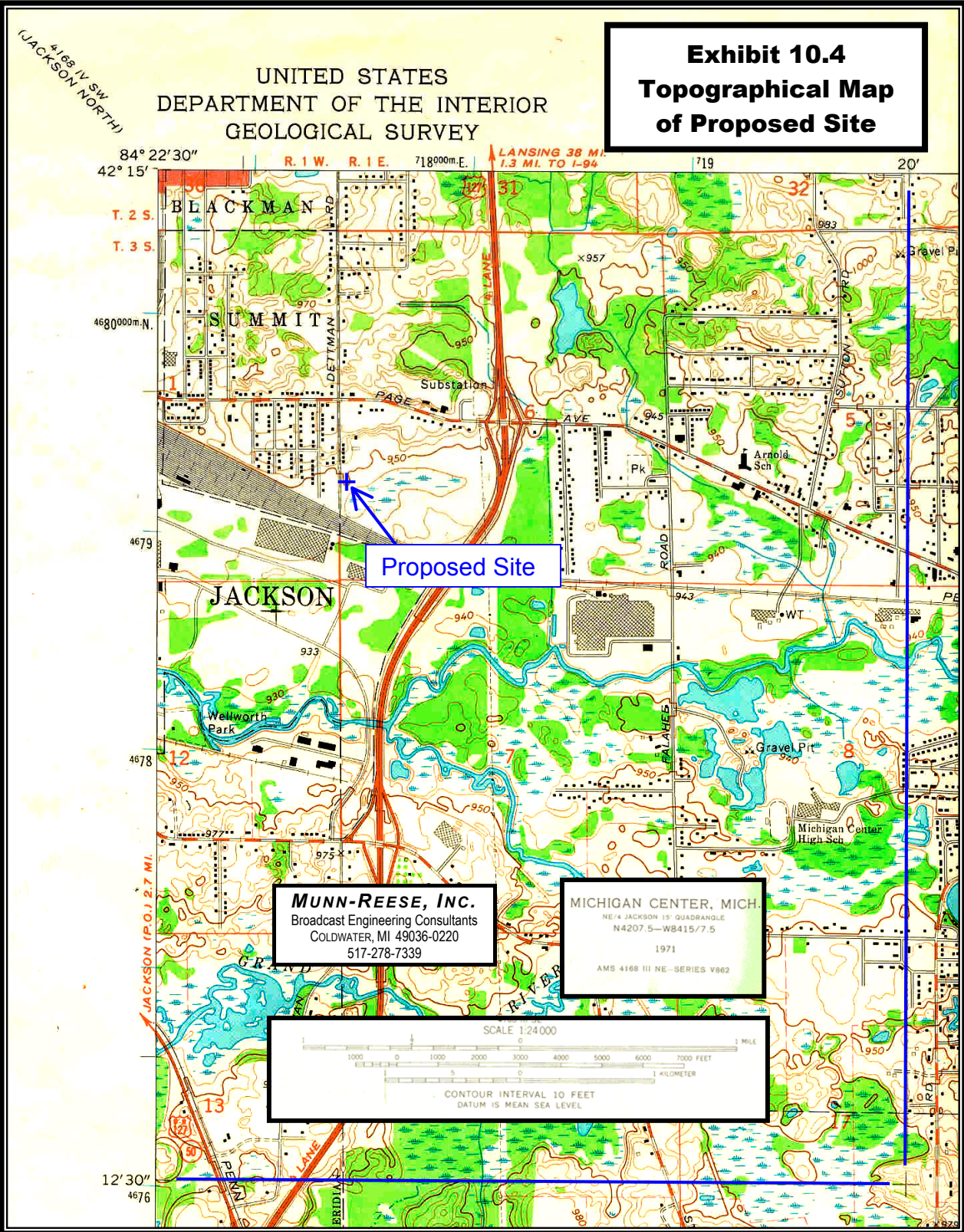


Exhibit 10.5
Photograph of Proposed Site

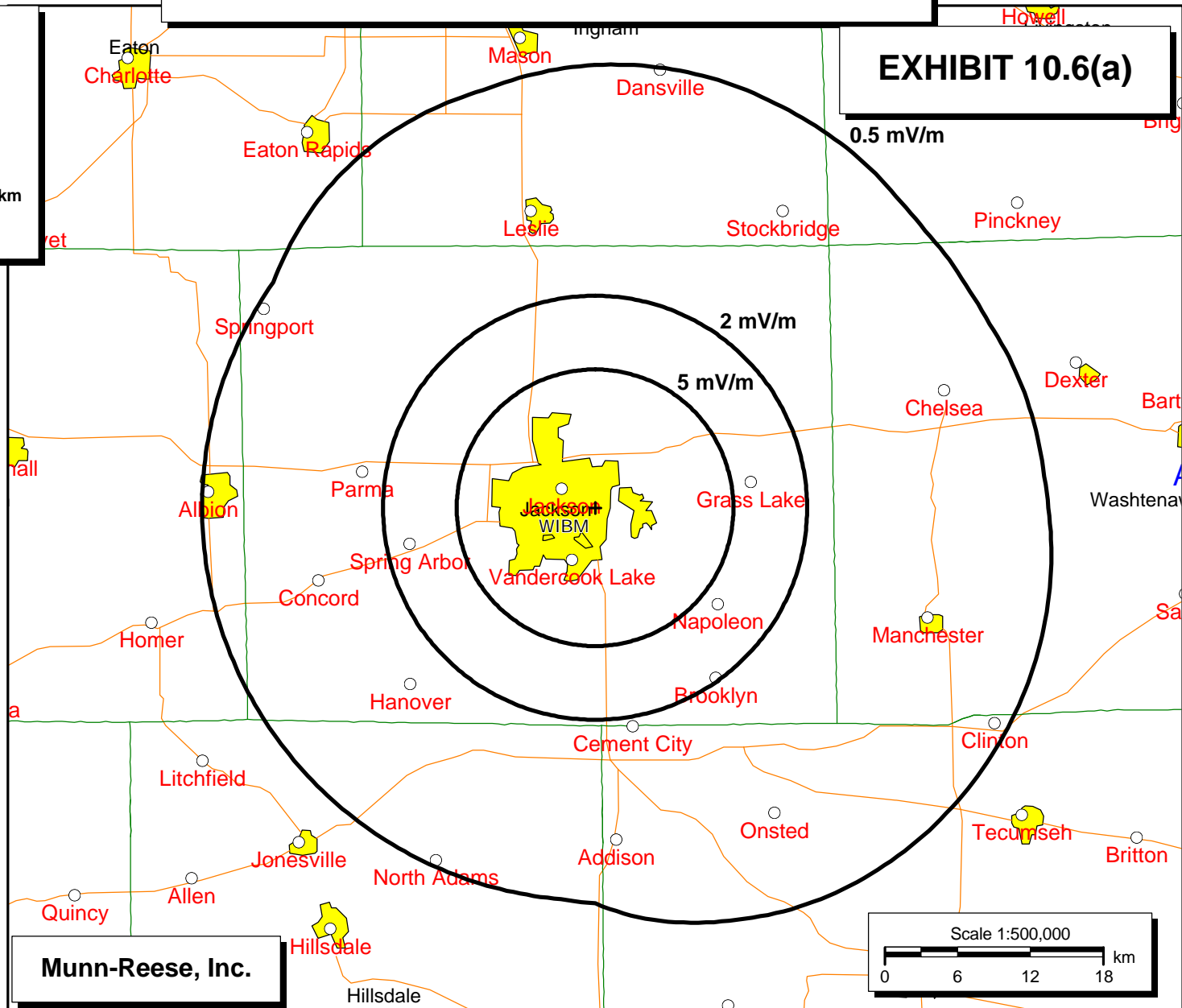
Proposed Site Boundaries

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PRESENT DAYTIME SERVICE CONTOURS

WIBM
Jackson, MI
Freq: 1450 kHz
Class: C
Latitude: 42-13-55 N
Longitude: 084-22-06 W
Power: 0.78 kW
RMS: 305.78 mV/m @1km
Radiated Field: 270.06 mV/m @1km
Towers: 1
Augs: 0

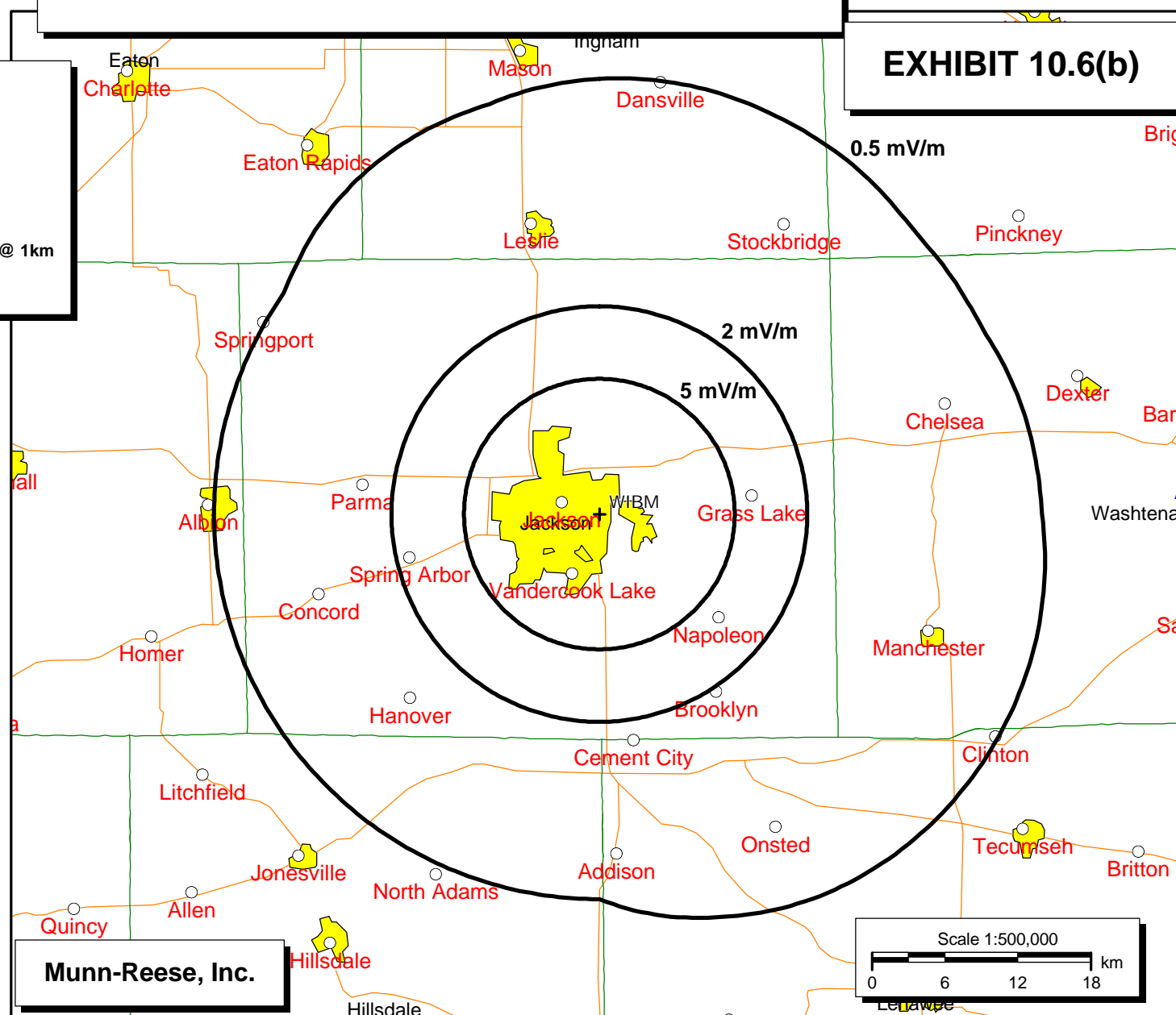
EXHIBIT 10.6(a)



PROPOSED DAYTIME SERVICE CONTOURS

EXHIBIT 10.6(b)

WIBM
Jackson, MI
Freq: 1450 kHz
Class: C
Latitude: 42-14-14 N
Longitude: 084-21-52 W
Power: 0.81 kW
RMS: 285.93 mV/m @ 1km
Radiated Field: 257.33 mV/m @ 1km
Towers: 1
Augs: 0



PRESENT & PROPOSED NIGHTTIME SERVICE CONTOURS

WIBM-Present
Jackson, MI
Freq: 1450 kHz
Class: C
Latitude: 42-13-55 N
Longitude: 084-22-06 W
Power: 0.78 kW
RMS: 305.78 mV/m/kW @1km
Towers: 1

WIBM-Proposed
Jackson, MI
Freq: 1450 kHz
Class: C
Latitude: 42-14-14 N
Longitude: 084-21-52 W
Power: 0.81
RMS: 285.93 mV/m/kW @1km
Towers: 1

Present Nighttime City Coverage: ☐
84.5 %

Proposed Nighttime City Coverage: ☐
74.5 %

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Jackson City Limits

Proposed
21.86 mV/m Int.-Free

Present
21.86 mV/m Int.-Free

Jackson

Jackson

WIBM-Proposed
WIBM-Present

Michigan Center

Vandercook Lake

EXHIBIT 10.7

Scale 1:100,000
0 1 2 3 km

V-Soft Communications

MAP SHOWING PRESENT & PROPOSED BLANKETING CONTOURS

WIBM
Jackson, MI
Freq: 1450 kHz
Class: C
Latitude: 42-13-55 N
Longitude: 084-22-06 W
Power: 0.78 kW
RMS: 305.78 mV/m/kW @1km
Towers: 1
Population: 0

WIBM-Proposed
Jackson, MI
Freq: 1450 kHz
Class: C
Latitude: 42-14-14 N
Longitude: 084-21-52 W
Power: 0.81 kW
RMS: 285.93 mV/m/kW @1km
Towers: 1
Population: 109

