

Exhibit 13.1
Topographic Map of Site
WVAC-FM - Adrian, MI

Transmitter Site
 41° 53' 55" NL
 84° 03' 37" WL
 NAD 1927

MUNN-REESE, INC.
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 COLDWATER, MI 49036-0220
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41°54'16"N
 84°4'10"W Map Extent 84°2'55"W
 41°53'32"N



Geographic Coordinate System (WGS84)

EXHIBIT 13.2

VERTICAL PLAN OF ANTENNA SYSTEM

The site is located at Mahan Hall on the Adrian College campus,
110 South Madison, Adrian, Lenawee County, Michigan.

Site Location
NL: 41° 53' 55"
WL: 84° 03' 37"

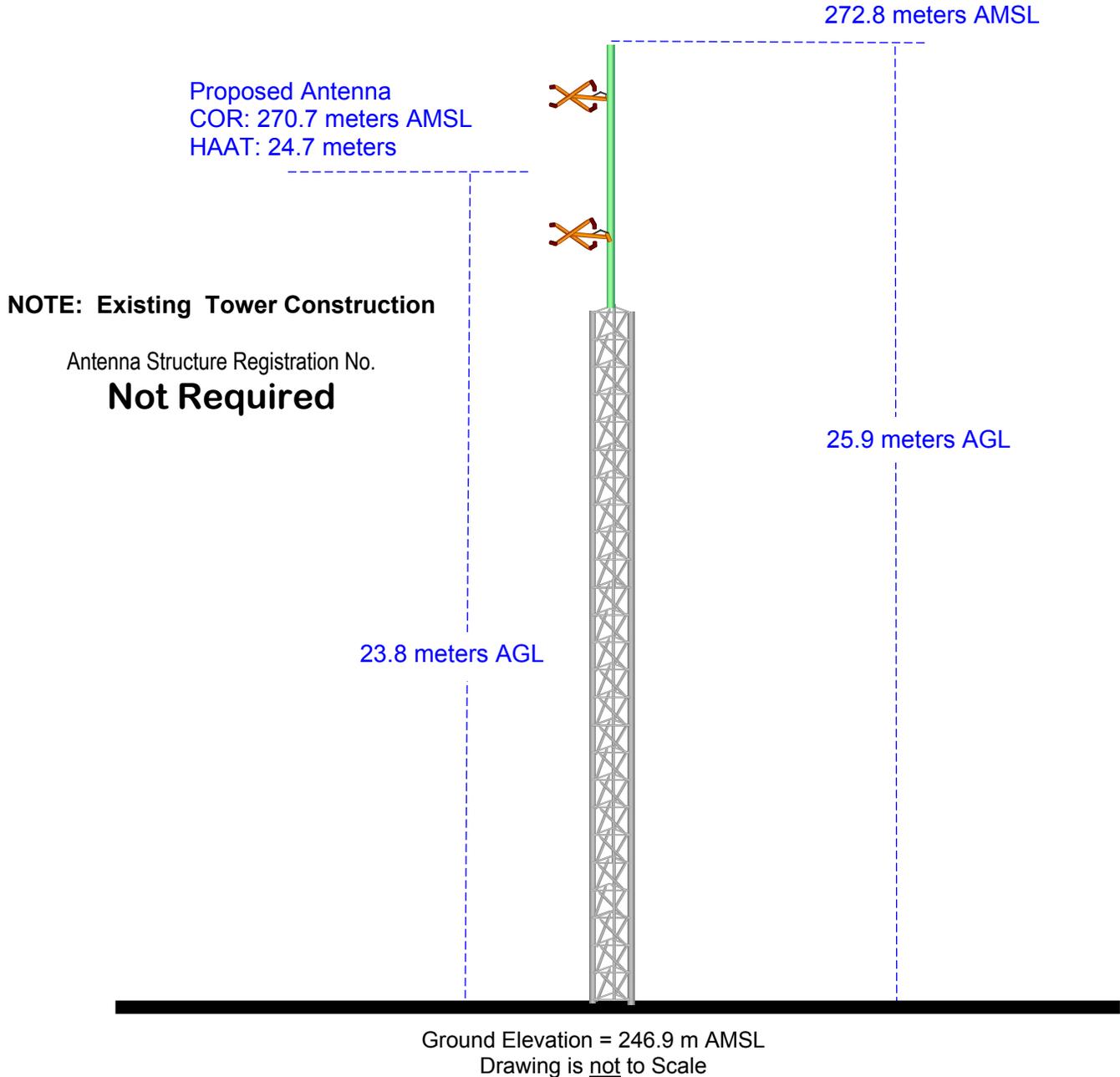


EXHIBIT 13.3

PROPOSED FM OPERATING SPECIFICATIONS

Applicant: Adrian College Board of Trustees

Call: WVAC-FM

City of License: Adrian, MI

Frequency: 107.9 MHz **Channel:** 300D **ERP:** 0.087 kW **HAAT:** 24.7 m

Transmitter Location: Mahan Hall on the Adrian College campus, 110 South Madison

City: Adrian

County: Lenawee

State: Michigan

Site Coordinates: NL 41° 53' 55" / WL 84° 03' 37"

Tower Registration Number: Not Required

Proposed Operation: Class D

Effective Radiated Power: 0.087 kW (H) 0.087 kW (V)

Height of Antenna Radiation Center Above:

	<u>Average Terrain</u>	<u>Mean Sea Level</u>	<u>Ground</u>
Horizontal	24.7 meters	270.7 meters	23.8 meters
Vertical	24.7 meters	270.7 meters	23.8 meters

Elevation of Tower Site : 246.9 meters AMSL

Overall Height of Structure Above Ground : 25.9 meters AGL

Overall Height of Structure Above Mean Sea Level: 272.8 meters AMSL

Exhibit 13.4 Present and Proposed Service Contours WVAC-FM - Adrian, MI

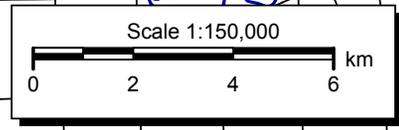
WVAC-FM-Lic
BLED19811221AP
Adrian MI
Latitude: 41-53-55 N
Longitude: 084-03-33 W
ERP: 0.013 kW
HAAT: 24.0 m
Channel: 300
Frequency: 107.9 MHz
AMSL Height: 267.0 m
Elevation: 198.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None
Population: 27,374
Area: 40.4 km²

WVAC-FM-App1
Proposed
Adrian MI
Latitude: 41-53-55 N
Longitude: 084-03-37 W
ERP: 0.087 kW
HAAT: 24.7 m
Channel: 300
Frequency: 107.9 MHz
AMSL Height: 270.7 m
Elevation: 246.9 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None
Population: 33,555
Area: 109.24 km²

■ WVAC-FM-Lic
■ WVAC-FM-App1

F(50-50) 60.0 dBu

F(50-50) 60.0 dBu



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