

# Terre Haute, IN - WMGI(FM)

## Copy of Existing ASR

**Registration Detail**

Reg Number	1029666	Status	Constructed
File Number	A0909291	Constructed	01/01/1969
EMI	No	Dismantled	
NEPA	No		

**Antenna Structure**

Structure Type GTOWER - Guyed Structure Used for Communication Purposes

**Location** (in NAD83 Coordinates)

Lat/Long	39-27-28.0 N 087-28-50.0 W	Address	4115 West US HWY 40
City, State	WEST TERRE HAUTE , IN		
Zip	47885	County	VIGO
Center of AM Array		Position of Tower in Array	

**Heights (meters)**

Elevation of Site Above Mean Sea Level	166.7	Overall Height Above Ground (AGL)	152.1
Overall Height Above Mean Sea Level	318.8	Overall Height Above Ground w/o Appurtenances	151.2

**Painting and Lighting Specifications**

FCC Paragraphs 1, 3, 4, 13, 21

**FAA Notification**

FAA Study	2014-AGL-3873-OE	FAA Issue Date	06/26/2014
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**Owner & Contact Information**

FRN	0002711737	Owner Entity Type	Corporation
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**Owner**

Midwest Communications, Inc.  
 Attention To: Mr. Paul Rahmlow  
 904 Grand Avenue  
 Wausau , WI 54403

P: (715)842-1437  
 F:  
 E: paul.rahmlow@mwcradio.com

**Contact**

Rahmlow , Paul  
 Attention To: Paul Rahmlow  
 904 Grand Avenue  
 Wausau , WI 54403

P: (715)842-1437  
 F:  
 E: paul.rahmlow@mwcradio.com

**Last Action Status**

Status	Constructed	Received	07/14/2014
Purpose	Notification	Entered	07/14/2014
Mode	Interactive		

**Related Applications**

07/14/2014	A0909291 - Notification (NT)
07/14/2014	A0909241 - Admin Update (AU)
07/10/2014	A0909083 - Modification (MD)

Related applications (7)

**Comments****Comments**

None

**History**

Date	Event
07/15/2014	Registration Printed
07/15/2014	Registration Printed
07/14/2014	ASR Application receipt email sent: Tower email
All History (15)	

**Automated Letters**

07/15/2014	Authorization, Reference
07/15/2014	Authorization, Reference
06/16/2005	Ownership Change, Reference 431218

All letters (6)

**Terre Haute, IN - WMGI(FM)  
USGS Aerial Photo-Map  
of Existing Site**

**Site Location (NAD 27)**

NL: 39° 27' 28"

WL: 87° 28' 50"

(39-27-28.0NL; 87-28-50.0WL NAD1983)

▲ 549 ft/167 m



# Terre Haute, IN – WMGI(FM) Vertical Plan of Antenna System

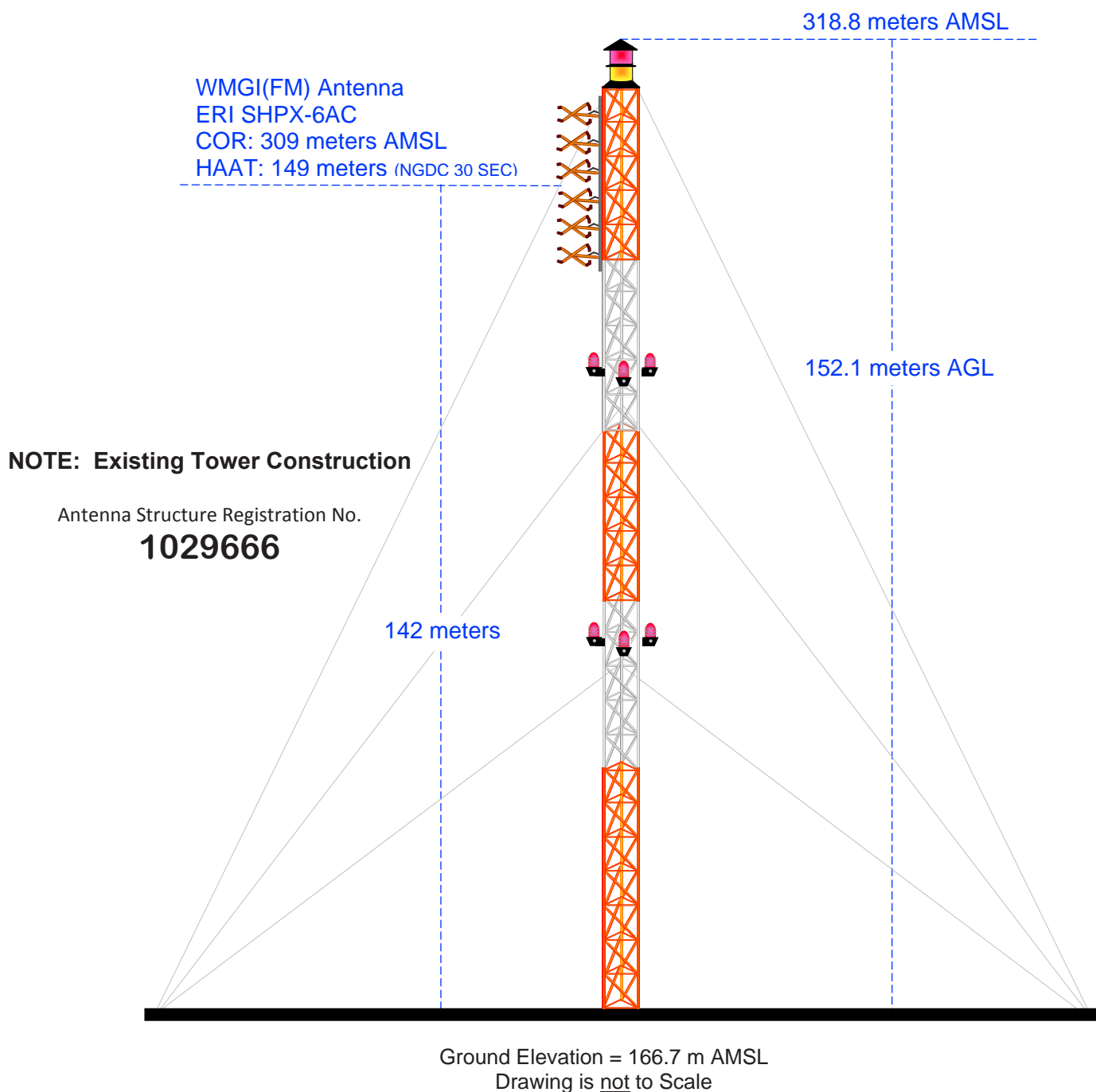
The site is located at 4115 West US Highway 40;  
the city of West Terre Haute; Vigo County, Indiana.

## Site Location (NAD 27)

NL: 39° 27' 28"

WL: 87° 28' 50"

(39-27-28NL; 87-28-50WL NAD1983)



**MUNN-REESE, INC.**

Broadcast Engineering Consultants  
Coldwater, MI 49036

# Terre Haute, IN – WMGI(FM)

## PROPOSED FM OPERATING SPECIFICATIONS

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**Call:** WMGI(FM)

**City of License:** Terre Haute, IN

**Frequency:** 100.7 MHz    **Channel:** 264B    **ERP:** 50.0 kW    **HAAT:** 149 m

**Transmitter Location:** The site is located at 4115 West US Highway 40.

**City:** West Terre Haute

**County:** Vigo

**State:** Indiana

**Site Coordinates:** NL: 39° 27' 28"    /    WL: 87° 28' 50"

**Tower Registration Number:** 1029666

**Proposed Operation:** Class B

**Effective Radiated Power:** 50.0 kW (H)    50.0 kW (V)

**Height of Antenna Radiation Center Above:**

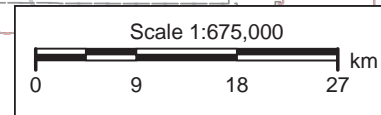
	<u>Average Terrain</u>	<u>Mean Sea Level</u>	<u>Ground</u>
Horizontal	149 meters	309 meters	142 meters
Vertical	149 meters	309 meters	142 meters

**Elevation of Tower Site :** 166.7 Meters AMSL

**Overall Height of Structure Above Ground :** 152.1 Meters AGL

**Overall Height of Structure Above Mean Sea Level:** 318.8 Meters AMSL

# Terre Haute, IN - WMGI(FM) Licensed Service Contour Study



NGDC 30 SEC Terrain Database  
U.S. Census 2010 PL Database

**WMGI(FM)**  
Terre Haute, IN  
Corrected Operation  
Facility ID: 6828  
Latitude: 39-27-28 N  
Longitude: 087-28-50 W  
ERP: 50.00 kW  
Channel: 264B  
Frequency: 100.7 MHz  
AMSL Height: 309.0 m

**70 dBμ Contour**  
Total Population: 164,999  
Total Area: 3,328 sq. km

**60 dBμ Contour**  
Total Population: 243,180  
Total Area: 8,504 sq. km

N. Lat. = 392728.0 W. Lng. = 872850.0  
HAAT and Distance to Contour,  
FCC, FM 2-10 Mi, 51 pts Method - NGDC 30 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field
000	181.7	127.3	50.0000	16.99	1.000
045	144.7	164.3	50.0000	16.99	1.000
090	159.7	149.3	50.0000	16.99	1.000
135	152.1	156.9	50.0000	16.99	1.000
180	141.7	167.3	50.0000	16.99	1.000
225	158.1	150.9	50.0000	16.99	1.000
270	169.0	140.0	50.0000	16.99	1.000
315	176.8	132.2	50.0000	16.99	1.000

Ave El= 160.49 M HAAT= 148.51 M AMSL= 309 M

