

MARCH 2005

# FIGURE 4 Transmitter/Antenna Site Plat and Ground System Layout

**CLASS C AM BROADCAST STATION  
WNSG, NASHVILLE, TENNESSEE  
1240 KHZ 1.0 KW ND U**

Boundary of Ground System  
(as described on WNAH station  
license and in original WNAH  
construction permit for this  
location)

CARVER ST

AUCTION WAY

31W

31W

RICHARDSON AVE

BAPTIST WORLD CTR

copper radial wires

copper ground strap

The ground system consists of 120, #10 AWG copper wire radials, evenly spaced about the tower and buried approximately 15 cm (6"). Each radial is nominally 61 meters (200') in length, except where foreshortened at the property boundary. These foreshortened radials are bonded to a transverse copper strap. An additional 120 radials, each nominally 6.1 meters (20') in length, are interspersed between the longer radials.

The ground system has an equivalent effective radius of 50.0 meters (164'), which at WNSG's operating frequency of 1240 kHz equates to 74.5 electrical degrees.



Scale 1 : 1,600

