

CP Engineers & Land Surveyors Inc.

3-14-03

Cumulus Broadcasting
KQTP
5315 SW 17th
Topeka, Ks. 66606

Attn: Tom Toenjes

Ref: 1631

This letter is to certify that the KTWU-TV Washburn University, Tower Registration Number 1032651 has been located using GPS methods this the 12th day of March 2003. The following are my observations from the NGS monument Security located to the East of the site. The horizontal datum is NAD 83 (1997) as published in the National Geodetic Survey Data Base. The elevations are based on City of Topeka Datum, NGVD 29. The datum benchmark is CTBM 96.1 located at the Northeast corner of the intersection of 10th and Wanamaker.

The Ground Elevation at the base of Tower 1080.2'

The Location at Centerline Tower at Top Plate

Latitude 39 degrees 03 minutes 50.31 seconds North
Longitude 95 degrees 45 minutes 49.50 seconds West
Elevation 1084.23'

The Orientation as determined using GPS methods

Azimuth 167 degrees 53 minutes 29 seconds

Height of Antenna

Midpoint of Antenna (Group of six) 488.4' above Ground
Elevation 1568.6'

Positional tolerances of .03'

