

**GPS - 40**

*All values are referenced to the North American Datum NAD 83 (1995)*

Latitude:	<b>35° 36 ft 39.00001 inches</b>	TN Northing:	<b>141893.566 m</b>
Longitude:	<b>86° 34 ft 50.78192 inches</b>	TN Easting:	<b>547381.950 m</b>
Elevation:	<b>213.024 m (698.90 ft)</b>		
Convergence:	<b>-0° 20 ft 24.0 inches</b>	Scale Factor:	<b>0.99995595</b>
Monument Set by:	<b>NGS</b>	Date:	<b>1987</b>
County:	<b>Bedford</b>	Nearest Town:	<b>Unionville</b>
USGS QUAD:	<b>Unionville</b>	TVA Designation:	<b>71-SE</b>

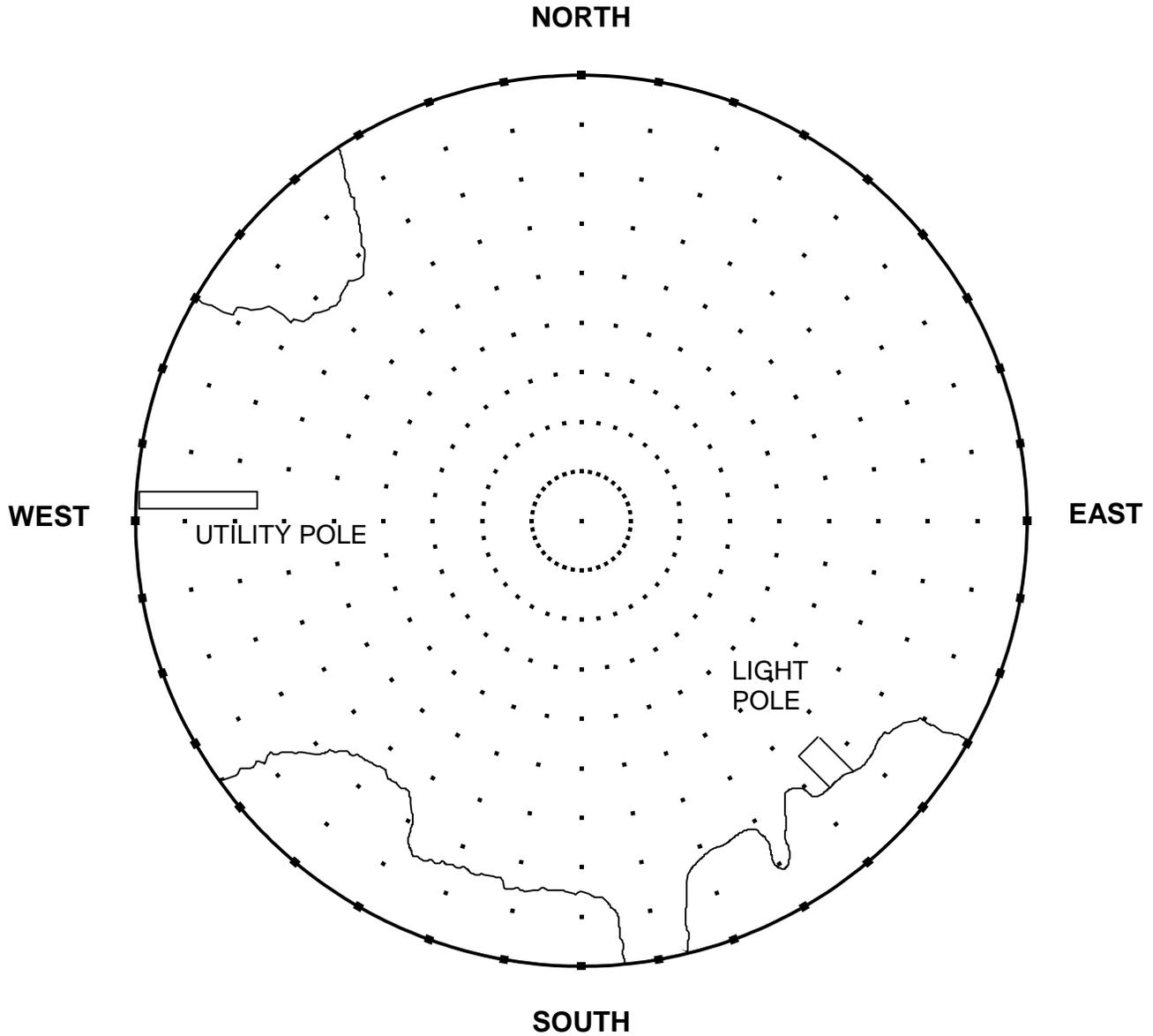
Description:

The station is located about 19.4 km (12 mi.) northwest of Shelbyville, 1.6 km (1 mi.) southeast of Unionville, on the northeast side of U.S. Highway 41A in a bedrock outcrop in the front lawn of the Community School of Unionville. Ownership--State of Tennessee.

To reach the station from the junction of U.S. Highway 41A and the Deason/Unionville Road about 1.6 km (1 mi.) southeast of Unionville go northwest for 0.08 km (0.05 mi.) on U.S. Highway 41A to the station on the right in a bedrock outcrop in the front lawn of the Community School of Unionville. The station is also 5.8 km (3.6 mi.) northwest of the intersection of State Route 270 and U.S. Highway 41A about 7.4 km (4.6 mi.) southeast of Unionville.

The station is a standard NGS disk stamped---GPS 40 1987---, set into a drill hole in bedrock outcrop measuring 0.46 m (1.5 ft.) by 0.30 m (1.0 ft.) projecting 0.06 m (0.2 ft.). Located 20.3 m (66.5 ft.) northwest from the south school entrance drive, 15.9 m (52 ft.) north-northwest from the northwest end of a culvert under the drive, 21.3 m (69.8 ft.) southeast from a power pole with a guy wire and a transformer, 13.7 m (45 ft.) northeast from the center of the highway and 0.46 m (1.5 ft.) above same. The station is found 0.7 m (2.3 ft.) south from the fiberglass witness post.

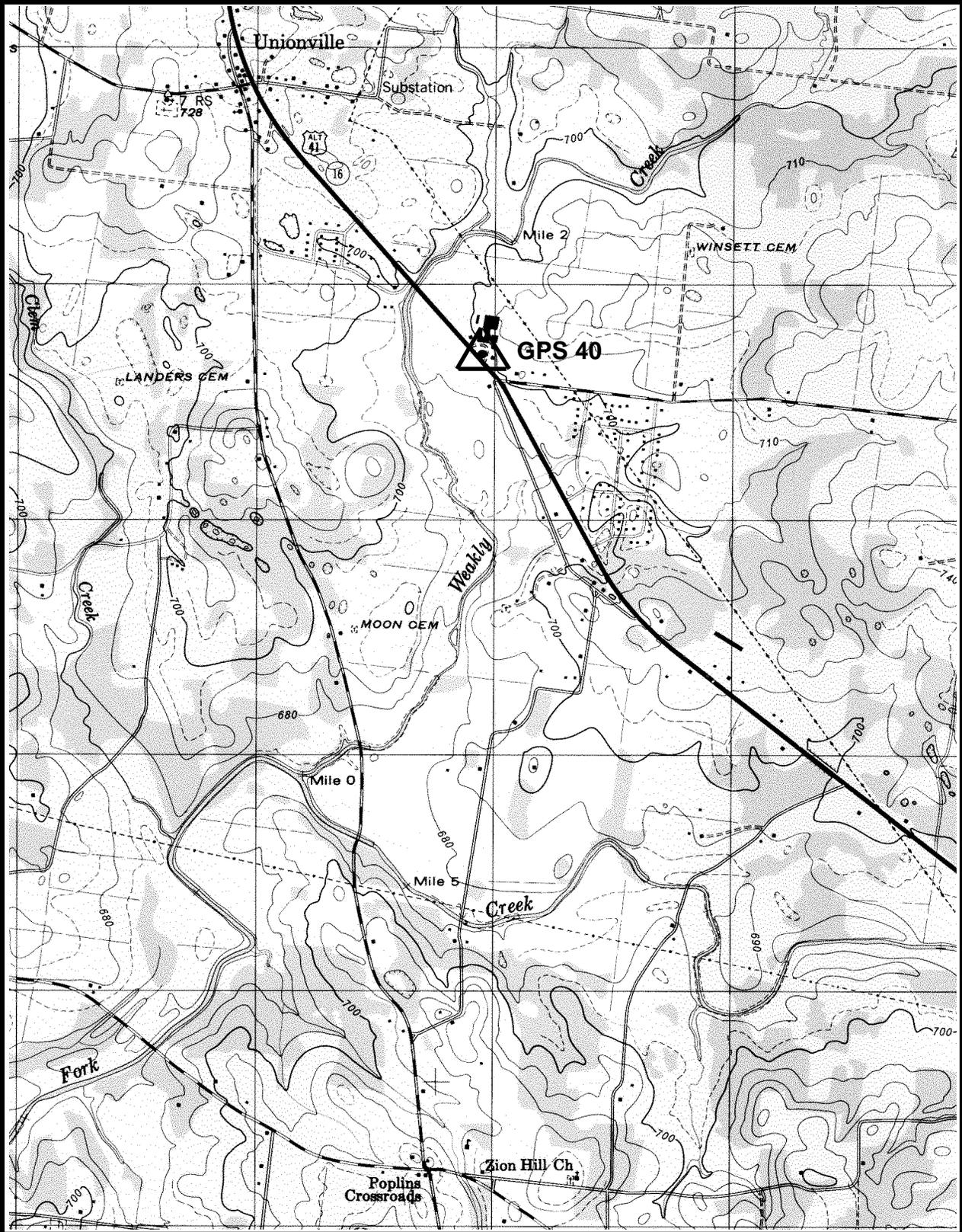
# STATION VISIBILITY DIAGRAM



ELEVATION	<u>213.024 m (698.90 ft)</u>	DATE	<u>July 1997</u>
LATITUDE	<u>35° 36 ft 39 inches</u>	ORGANIZATION	<u>TDOT</u>
LONGITUDE	<u>86° 34 ft 51 inches</u>	MAP SCALE	<u>7 1/2 ft USGS</u>
STATION NAME	<u>GPS 40</u>	MAP SHEET	<u>71-SE, Unionville</u>
		OBSERVER	<u>CLJ</u>
		Observer's height	<u>6 ft</u>

NOTES:

**TENNESSEE GEODETIC REFERENCE NETWORK**



**GPS 40**

**71-SE, UNIONVILLE**