

Using the United States National Grid

What is the United States National Grid?

The USNG is an alpha-numeric reference system that overlays the UTM coordinate system. A USNG spatial address is broken down into three parts:

17R MM 70577 63101

1. Grid Zone Designation (GZD)-for a world-wide unique address. Identifies the longitude zone number and the latitude band letter.
2. 100,000 meter Square Identification-for regional areas. Indicates the 100,000 meter square that is specific to the GZD.
3. Grid Coordinates-for local areas. The UTM grid Easting and Northing point position within the 100,000 meter square.

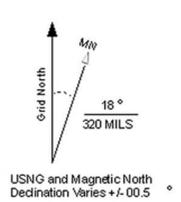
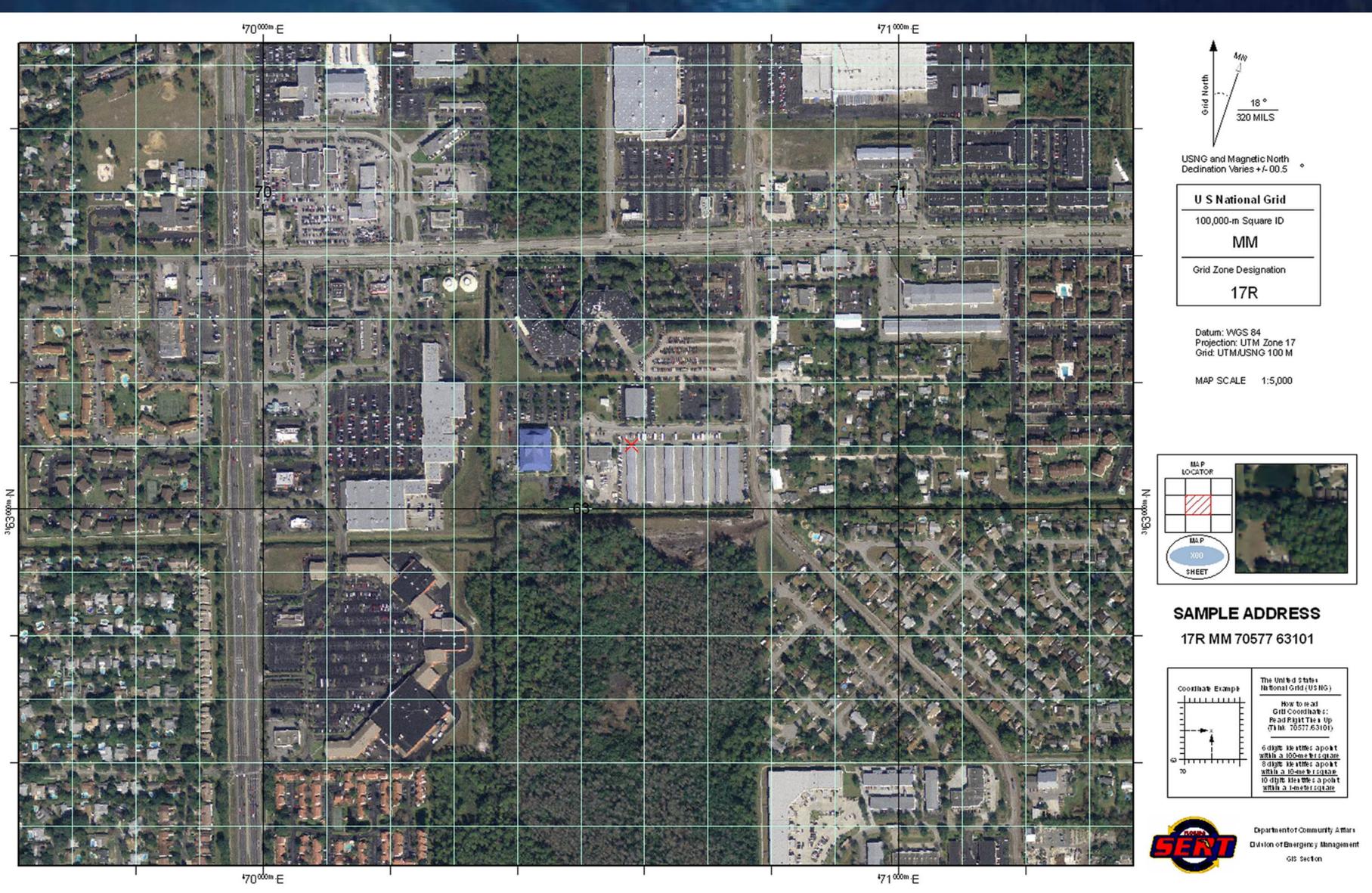
The USNG is uniform in its appearance and usage. The standard for its datum is NAD83, or the international equivalent, WGS84. This allows for multi-agency and multi-departmental communication and interoperability that is required during operations such as Disaster Relief, Search and Rescue and Homeland Security situations.

The USNG Coordinates

Full USNG: 17RMM7057763101
 Without GZD: MM70576310
 Without GZD and 100,000 m Square ID: 70576310

USNG can be truncated to meet different precision requirements, ranging from 1,000 meters to 1 meter:

Four Digits	7063	Locates a point within a 1000 meter square
Six Digits	705631	Locates a point within a 100 meter square
Eight Digits	70576310	Locates a point within a 10 meter square
Ten Digits	7057763101	Locates a point within a 1 meter square



U S National Grid	
100,000-m Square ID	MM
Grid Zone Designation	17R

Datum: WGS 84
 Projection: UTM Zone 17
 Grid: UTM/USNG 100 M
 MAP SCALE: 1:5,000



SAMPLE ADDRESS
 17R MM 70577 63101

