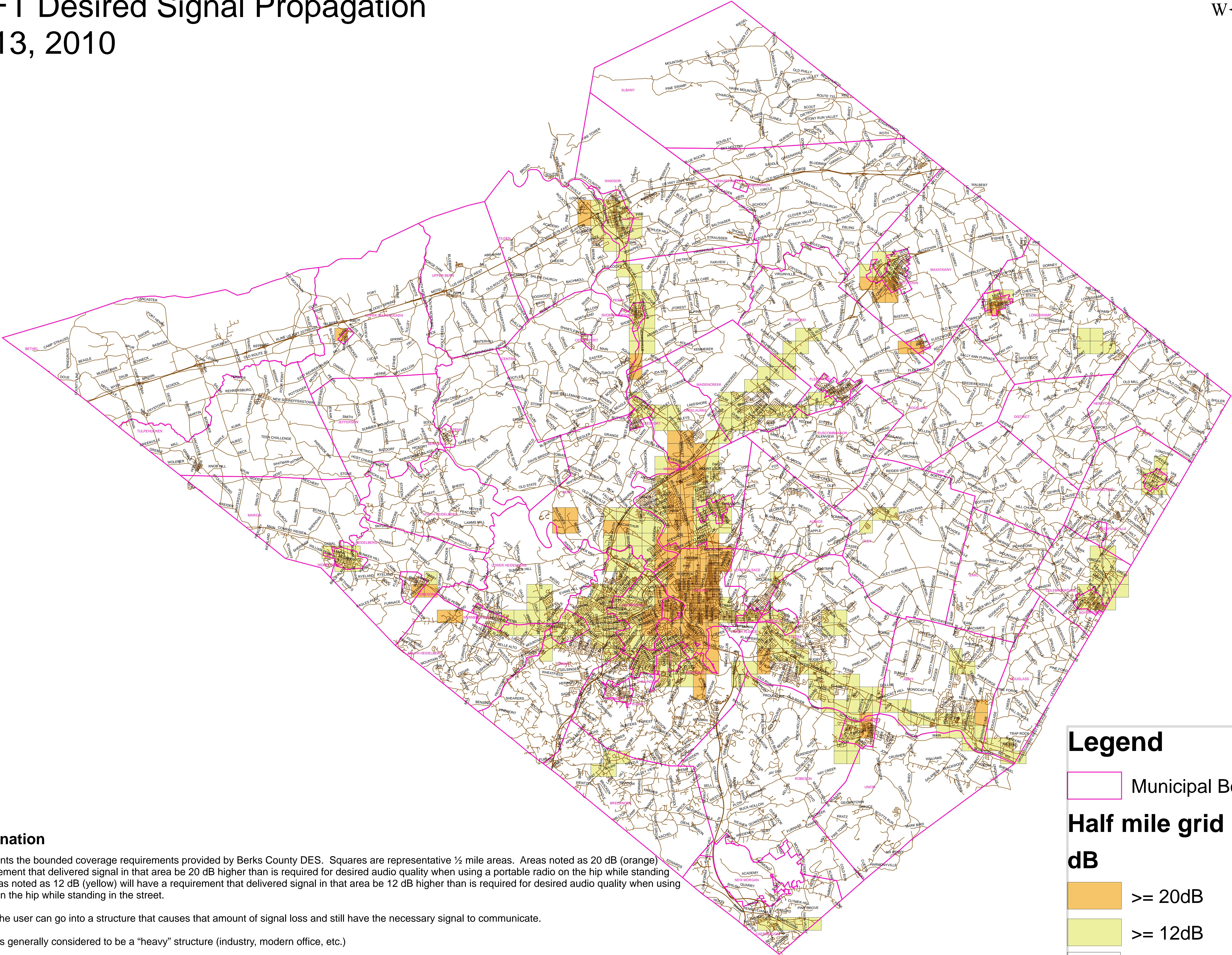
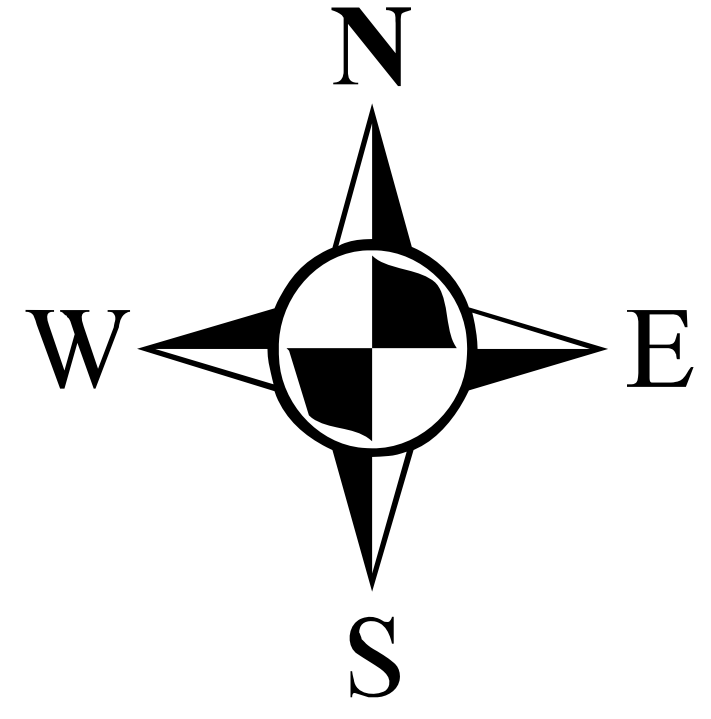


Berks County 2010 Public Safety Radio System Project

DRAFT Desired Signal Propagation

May 13, 2010



MAP Explanation

This map represents the bounded coverage requirements provided by Berks County DES. Squares are representative 1/2 mile areas. Areas noted as 20 dB (orange) will have a requirement that delivered signal in that area be 20 dB higher than is required for desired audio quality when using a portable radio on the hip while standing in the street. Areas noted as 12 dB (yellow) will have a requirement that delivered signal in that area be 12 dB higher than is required for desired audio quality when using a portable radio on the hip while standing in the street.

This means that the user can go into a structure that causes that amount of signal loss and still have the necessary signal to communicate.

A 20 dB building is generally considered to be a "heavy" structure (industry, modern office, etc.)

A 12 dB building is generally considered to be a "medium" structure (light office, "Big Box" store, etc.)

An 8 dB building is generally considered to be a "light" structure (normal residential)

Legend

- Municipal Boundaries
- Half mile grid**
- dB**
- $\geq 20\text{dB}$
- $\geq 12\text{dB}$
- Portable in Street