



# **RF Justification Package Proposed Site A2B2227A**

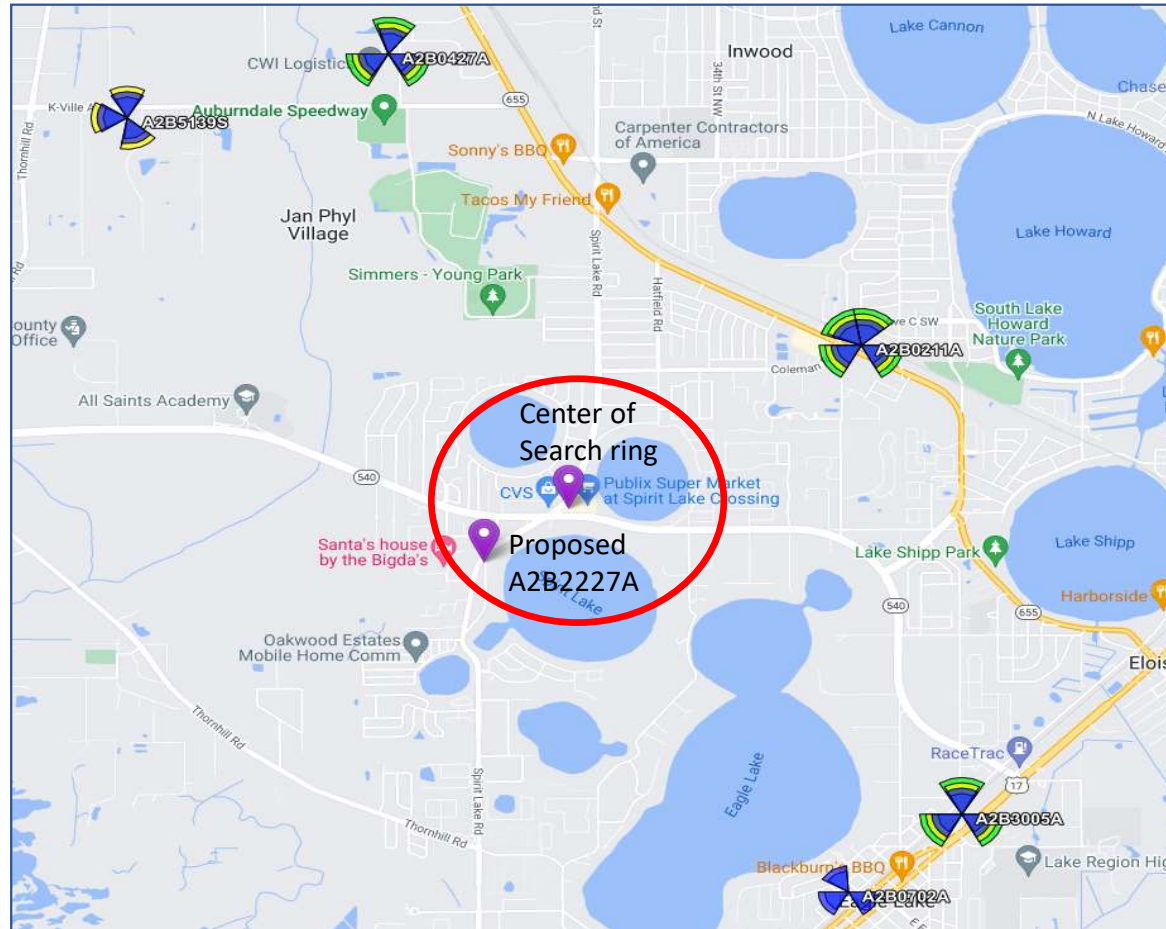
# Primary Frequencies

1. The frequency band allocation licensed or transferred to T-Mobile by the Federal Communications Commission (FCC) is the reasons why the T-Mobile frequency band will not interfere with or obstruct any public safety communications.
2. The bands allocated by the FCC for public safety telecommunications are
  - a) Well-guarded by the “Guard Band” separation, dictated by the FCC
  - b) Transmission and reception of Public Safety telecommunication takes place in a separate portion of the RF spectrum from AWS, PCS, Band 41 and 700 MHz operations.

Band	Transmit Frequency	Received Frequency
Advance Wireless Service (AWS)	2130.0 – 2155.0 MHz	1730.0 – 1755.0 MHz
Personal Communication Services (PCS)	1930.0 – 1950.0 MHz	1850.0 – 1870.0 MHz
700 MHz Service	729.0 – 734.0 MHz	699.0 – 704.0 MHz
600 MHz Service	627.0 – 637.0 MHz	673.0 – 683.0 MHz
Band 41 Service	2516.81 – 2596.81 MHz 2658.4 -2687.8 MHz	2516.81 – 2596.81 MHz 2658.4 -2687.8 MHz

# Proposed A2B2227 Search Ring

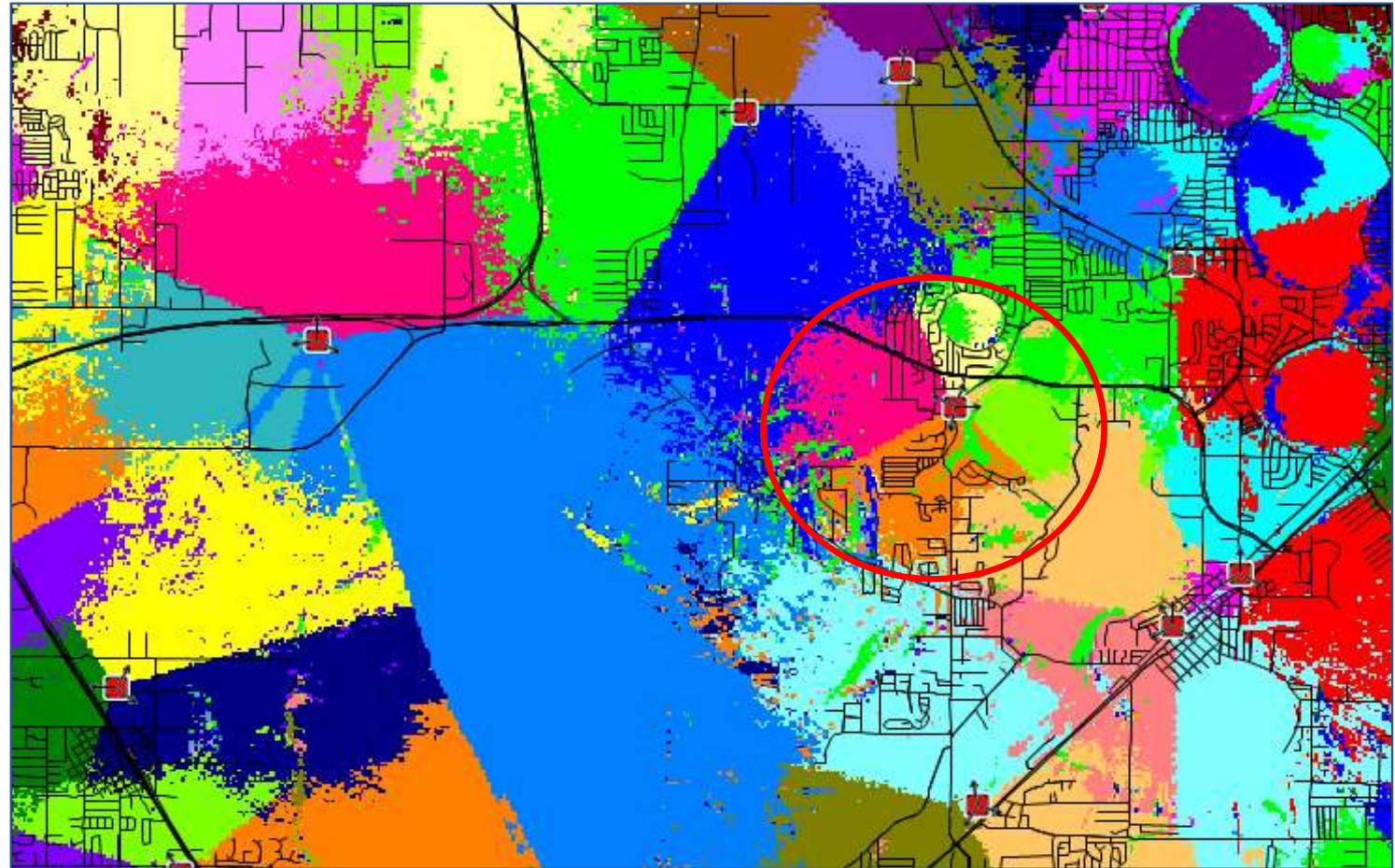
1. Search Ring Coordinates  
28.00540, -81.77809
2. Search Ring radius is 1/2  
mile.





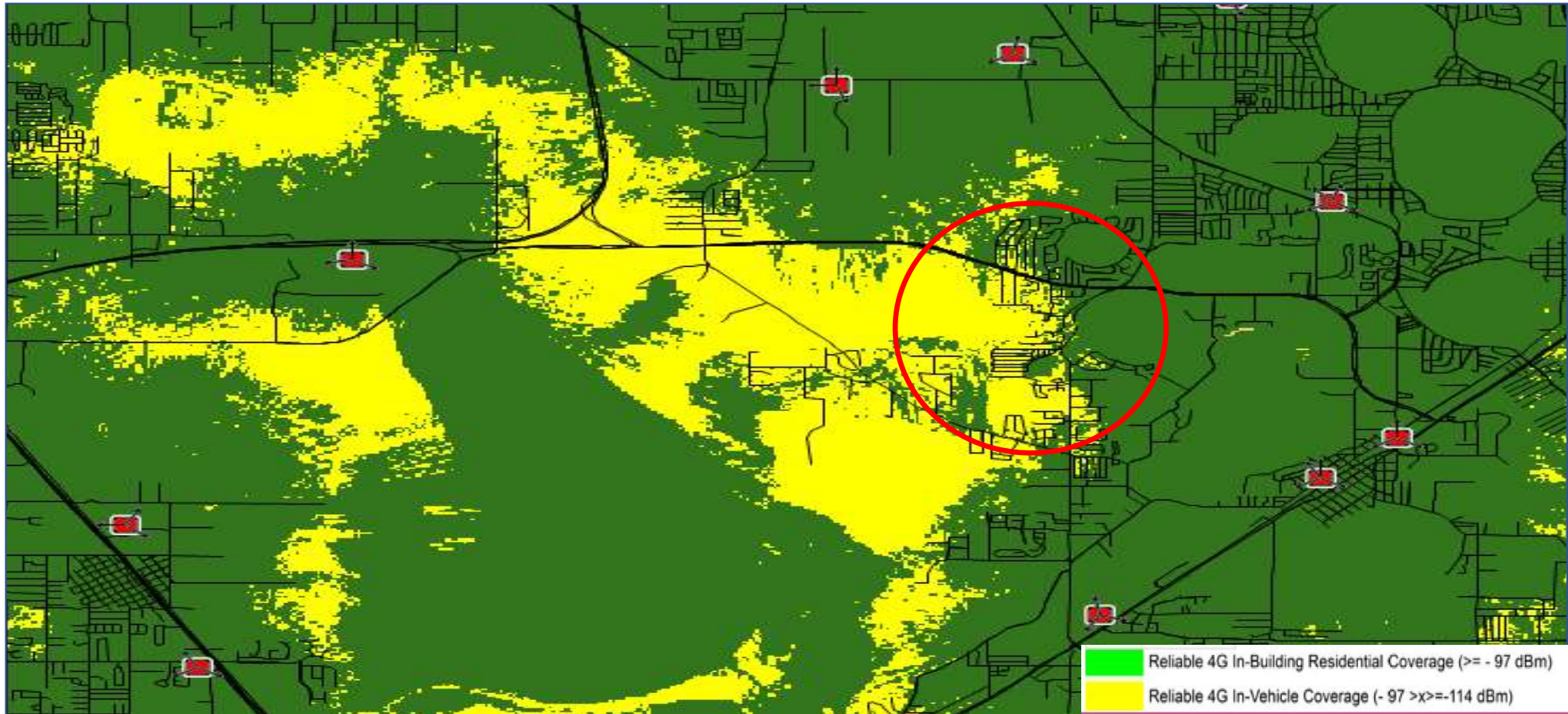
# Proposed A2B2227A Color Plot

1. Proposed site is A2B2227A.
2. Coordinates: 28.001692, -81.783858
3. It will have 4 sectors with Azimuth: 20/90/190/300 and Mechanical Tilt = 0





# Existing Coverage Plot on Mid-Band AWS Spectrum





# Future Coverage Plot on Mid-Band AWS Spectrum

