

**ConnectALL – Connectivity Innovation Program – Mobile Service Request for Applications (RFA)**

**Network Design Guidance**

Applicants should reference this guidance and include this information when creating Network Design Documents and Maps for question Q\_17053 of the Program application.

Network Design including coverage map(s) (in KMZ format compatible with ArcGIS and/or multiple PDF documents in a .zip archive) identifying the geographic area that is anticipated to be covered by the Project. Map should have a base layer that includes all roads, homes, and existing structures. The project equipment and infrastructure should be identified with red arrows pointing to the proposed project locations. The geographic area that is anticipated to be served by new wireless cellular coverage area should be identified in three different signal strength areas with these indicated colors and signal levels, Outdoor coverage/Red, In-Car Coverage/Blue and Indoor Coverage/Green. Include a legend with the signal thresholds used for each level of coverage.

- Please provide the following maps and supporting files. Format compatible with ARCGIS mapping program. If ARCGIS is unavailable multiple PDF's are acceptable.

**1. Deployment Overview Map(s):**

- Map Base Layer: Satellite with roads, homes, and existing structures visually identifiable
- Parcel(s) and ROW identified
- Coverage Area Existing [thresholds to be displayed in the following colors]
  - In building: Green
  - In car: Blue
  - Outdoors: Red
- Coverage Area Proposed [thresholds to be displayed in the following colors]
  - In building: Green
  - In car: Blue
  - Outdoors: Red

**Map Legend:**

- Scale (for any PDF documents)
- Location: [Town, Village or City Name]
- Project Name [Consistent with Project Name from Budget and Network Template and RFA questions]

#### Infrastructure Details:

- Street Address/Mile Marker of any infrastructure associated with [Approximate address/addresses]
- Total Locations: [Number]
- Existing Infrastructure and type: [Number]
- New Proposed Infrastructure and type: [Number]
- Wireless Standard of the equipment: [CDMA, LTE, 5G, CBRS, etc.]
- -dBm coverage levels for
  - In building - green
  - In car - blue
  - Outdoor – red

### **2. Infrastructure Deployment Map**

- Detailed network topology identifying locations of fiber, power, antenna, radio head(s) or other accessory equipment.
- Identification of infrastructure owner (i.e. Building/structure owners, Electric Utility/Joint Pole owner, underlying landlords)
- Backhaul solution (owned dark fiber, leased dark fiber, lit services, microwave or other wireless solution).

### **3. Non-Mapping supplemental documentation (if applicable or available)**

- Identification of new proposed infrastructure via typical photo or product spec sheet.