



## **APPLICATION EXHIBIT – Antenna Drawing – FORM 442**

### **Introduction**

This exhibit is the vertical profile sketch of the fixed transmitter location that is to be mounted at 7.516 meters above ground level at the intersection of Monroe St. & Michigan Ave in Dearborn, MI. This exhibit is required because of the 7.516 meters being above the 6 meter criteria for not needing an exhibit, as well as the fact that the transmitter is mounted to a traffic pole instead of building.

The following 'Bldg' list indicates the approximate height, in meters, of the urban areas surrounding this road side unit deployment. Following is the sketch, made using Google Earth Pro, clearly indicating the various obstructions already present to shield aviation systems. Given the low transmit power of the fixed location (as detailed in the filing), and the nearness to the 6 meter initial criteria, Ford Motor Company is confident that this road side unit deployment would have no interference with any aviation systems.

#### **Buildings seen in images:**

- Road Side Unit (RSU) - ~7.5m: The install location of the RSU on a traffic pole.
- Building 1 (Bldg 1) - ~15m: Located directly next to the location for RSU installation, this building will provide ample shielding for areas opposite the installation location side of the building.
- Building 2 (Bldg 2) - ~17m: Located directly adjacent to the location for RSU installation, this building will provide ample shielding for areas west of the RSU installation location.
- Building 3 (Bldg 3) - ~15m: Located directly across from the location for RSU installation, this building will provide helpful shielding to areas north of the installation location side of the building.
- Building 4 (Bldg 4) - ~15m: Located close & across from the location for RSU installation, this building will provide helpful shielding to areas north of the installation location side of the building.
- Building 5 (Bldg 5) - ~33m: Though further away from the previously mentioned buildings, this building is significantly higher than the others and will assist in shielding areas south of the RSU
- Building 6 (Bldg 6) - ~36m: Though further away from the previously mentioned buildings, this building is significantly higher than the others and will assist in shielding areas north of the RSU





