



## 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 Rosa Parks Blvd. & Michigan Ave in Detroit, 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) - ~12m: 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 to the south and east.
- Building 2 (Bldg 2) - ~20m: Located behind the location for RSU installation, this building will assist with shielding for areas south and east of the RSU installation location.
- Building 3 (Bldg 3) - ~75m: Located behind the location for RSU installation, this very tall train station will provide helpful shielding to areas south of the installation location side of the building.
- Building 4 (Bldg 4) - ~30m: Located close & almost adjacent to the location for RSU installation, this building will provide helpful shielding to areas east of the installation.
- Building 5 (Bldg 5) - ~63m: Though further away from the previously mentioned buildings, this building is significantly higher than the majority of the others and will assist in shielding areas north and west of the RSU
- As can be noted in the images provided below, there is quite a bit of urban vegetation in the form of trees in the areas surrounding the RSU. This vegetation will likely greatly help with shielding and absorbing RF emissions, therefore assisting in shielding for aerial vehicles.





