

Technical Description of the proposed communication facility and support structure – MNG-423

Crown Castle is proposing to install a strand mounted small cell facility on a Pepco owned utility pole for use by T-Mobile.

The small cell facility will function as part of T-Mobile’s small cell network in Takoma Park, which is needed to serve significant, unmet demand for wireless services in this area.

The strand mounted design was selected due to its ability to utilize the minimum amount of space and reduce the visual impact to the utility pole being used.

The proposed project includes the installation of one Ericsson 6523 antenna measuring 7.87”x7.87”x0.79” and two Ericsson 4402 radios each measuring 8.5”x8”x4”. No equipment cabinet will be utilized for this installation. A power converter and disconnect switch will also be mounted on the strand cable. The only pieces of equipment that will produce acoustic noise are the two Ericsson 4402 radios.

Acoustic Noise

With the fan, the acoustic noise is ambient temperature dependent, as listed below.

Table 10 Maximum Sound Pressure Level for Radio 4402 with Fan

Temperature (°C)	Radio 4402 Sound Pressure Level (dBA) at LeqA 2-Meter Distance ⁽¹⁾	
	Single Radio with Support 6501 195 W or Support 6502 195 W	Dual Radio with Support 6503 or Support 6504
<+20	35	31
+30	38	32
+40	41	41
+55	46	56

(1) The sound pressure level is measured at hemispherical distribution.