

City Hall Installation Plan

Lawrence Freenet proposes the installation of a 4' x 4' free standing antenna mount on the roof of City Hall. This antenna mount will be used to provide backbone data service to the downtown wireless project.

The mast mount is made from [12" x 2"], [4" x 4"] and [2" x 4"] treated lumber. A 10' by 2" steel pole is attached to this mount via u-bolts and is used for securing antennas. This steel pole is grounded in accordance with best practices. The approximate weight of the mount is 300 lbs. This weight is sufficient to prevent the mast from moving in high wind conditions.

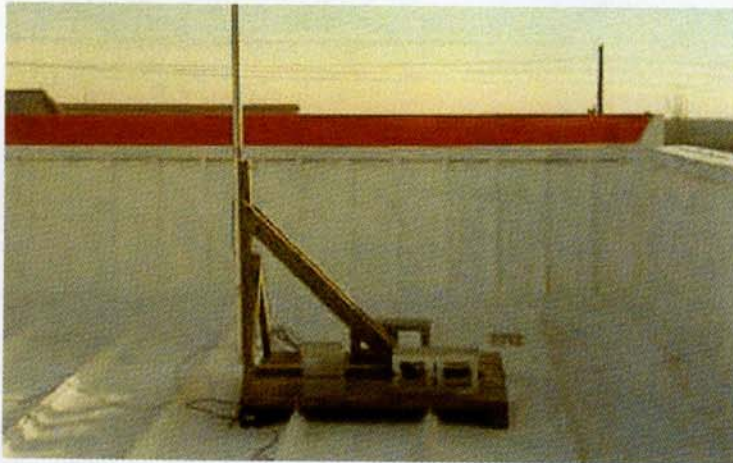


Figure 1 Example Mount

The desired mounting location for the antenna mast will be mounted is the south ^{west} east side of the roof as shown in Figure 2. This is location was selected to provide clear line of site to the repeaters serving the downtown area.



Figure 2 Approximte Mst Location

The mast will be set far enough back from the edge of the roof to be out of ^{Sight} ~~site~~ to pedestrians and automobiles near city hall as shown in Figure 3.

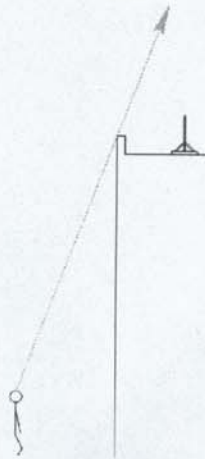


Figure 3 Mast will not be visible near city hall.

In addition to the mast Freenet would like to install computing equipment inside of the elevator tower. This equipment will consist of a small computer/router and power injectors to provide power for the antenna equipment. The antennas will be served via outdoor Cat-5e cable which will exit the elevator tower in the same location as the city's GPS antenna on the East side of the tower.

The computing equipment inside of the tower is extremely low maintenance and will require little power to operate. If necessary Lawrence Freenet will supply and monitor a

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digital power meter. The company will take readings quarterly and submit payment for electrical usage at the market rate.

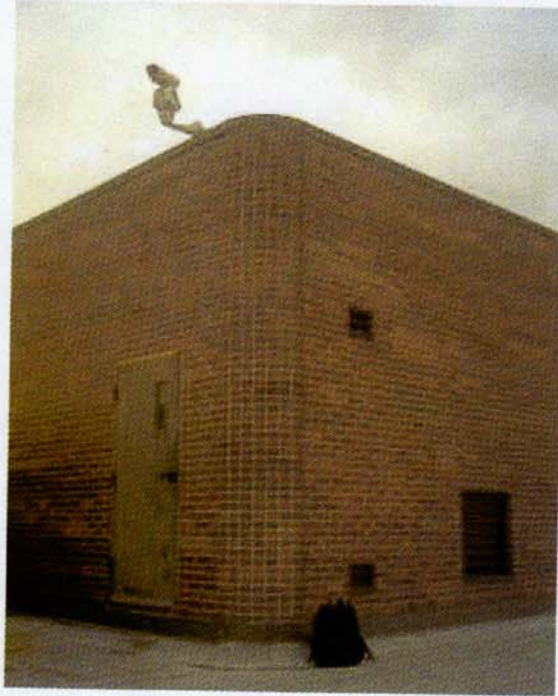


Figure 4 Elevator Tower

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