C. E. Forehand
FCI Towers; ATTN: C. E. Forehand
2528 Horse Pasture Road, Suite 100
Virginia Beach, VA 23453

May 29, 2018

City of Hampton; Planning and Community Development Department Division
22 Lincoln Street, 5th Floor
Hampton, VA 23669
RE: Project Narrative
Dear City of Hampton; :
Please accept this Project Narrative, H&S Development Group and FCI Towers are in need of adding a tower site in the vicinity of 700 Greenlawn Drive, Hampton, VA 23661 in order increase coverage in an area where capacity of users has depleted the coverage. This application is for a new monopole type tower to be built at a height of 165 feet. Wireless Customers that are citizens of the City of Hampton, live and work close to this area are demanding expanded coverage. For this reason we are expanding and enhancing the network to accommodate these customers.

Here is a description of some of the material submitted with the Use Permit Application:

The Best Server plots are something Radio Frequency Engineers use internally to help judge whether a capacity site will offload the intended target sectors. The colors shown in the map just give a prediction of which sector provides the dominant coverage for a given frequency band.

One the coverage maps, the levels of green are the design target thresholds for the given service levels (in-bldg commercial, in-bldg residential, in-vehicle, and outdoor). E.g. if you're in a "in-vehicle" zone, then we would not expect you to have adequate service inside your house or office. In-bldg commercial and in-bldg residential levels are different because the construction materials used for both are very different (i.e. concrete/glass/metal studs vs a stick house).

L2100 will generally provide higher throughputs and performance over L700, although L700 will cover in areas that L2100 can't penetrate. Both frequency bands will support the same services, but L2100 has more available capacity to handle heavier traffics loads than L700.

Capacity sites are designed for offloading congested sectors on neighboring sites. Location is much more critical for these sites.

Coverage sites are designed for improving weaker coverage (i.e. reduce outdoor, in-vehicle, or no coverage zones).

Some alternative site locations that were looked in the area are the steeple at 2nd Baptist Church on the Newport News side of Chestnut Ave. The church refused to enter into a lease with T-Mobile. The Adams outdoor electronic sign was investigated but it did not have the structural integrity to support antennas. Several other churches and property owners in the area were contacted, but none had the interest, structural capacity or sufficient height in order to accommodate antennas. There are no others towers or existing structures within the coverage area that will allow T-Mobile to meet Radio Frequency coverage objectives. Therefore since no co-location opportunities are available to us, we are therefore making an application for a new tower.

Sincerely,

C. E. Forehand