

## **EXHIBIT 1a – Loading/Design of Tower**

### Tower Design Criteria

- 180' Monopole Tower
- Tower is located in Mille Lacs County, Minnesota.
- Tower designed for Exposure C to the TIA-222-G Standard.
- Tower designed for 90 mph basic wind (3 Second Gust,  $V_{asd}$ ) in accordance with the TIA-222-G Standard.
- Tower is also designed for a 50 mph basic wind with .50 in ice.
- Tower Structure Class III.
- Topographic Category 1 with Crest Height of 0.00 ft.

### Inventory and Equipment Loading Requirements (5 loading levels, 15ft “vertical envelope” per level, plus 2 dishes lower on Tower)

- AT&T – 170'-185' level
- City – 155'-170'
- Future User 1 – 140'-155'
- Future User 2 – 125'-140'
- Future User 3 – 110'-125'
- Future 6ft Microwave Dish – 100'
- Future 2ft Microwave Dish – 85'

### ATT Tower Space Information

12 antennas, 24 radios/tma units, 6 surge, 7 dc power cables, 3 fiber cables and a platform mount or equal to 35,000 sq. inches

### Construction Terms and Conditions

See Sheets C9, T7 and N2 from Const Drawings from Black & Veatch dated May 7, 2019