

# Snow and Ice Loading Zones

## Weather Loading Summary - AESO Tower Development

### Wet Snow & Wind Loadings

#### 100 Year Return Values

|        | Radial Wet Snow Accretion (mm) | Wind Speed (km/hr) at 10m Height | Wind Pressure (Pa) at 20 m Height | Wind Pressure (Pa) at 30 m Height | Wind Pressure (Pa) at 40 m Height |
|--------|--------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Zone A | 70                             | 77                               | 295                               | 320                               | 340                               |
| Zone B | 70                             | 71                               | 240                               | 260                               | 280                               |
| Zone C | 50                             | 67                               | 210                               | 230                               | 245                               |
| Zone D | 50                             | 64                               | 190                               | 205                               | 220                               |

#### 75 Year Return Values

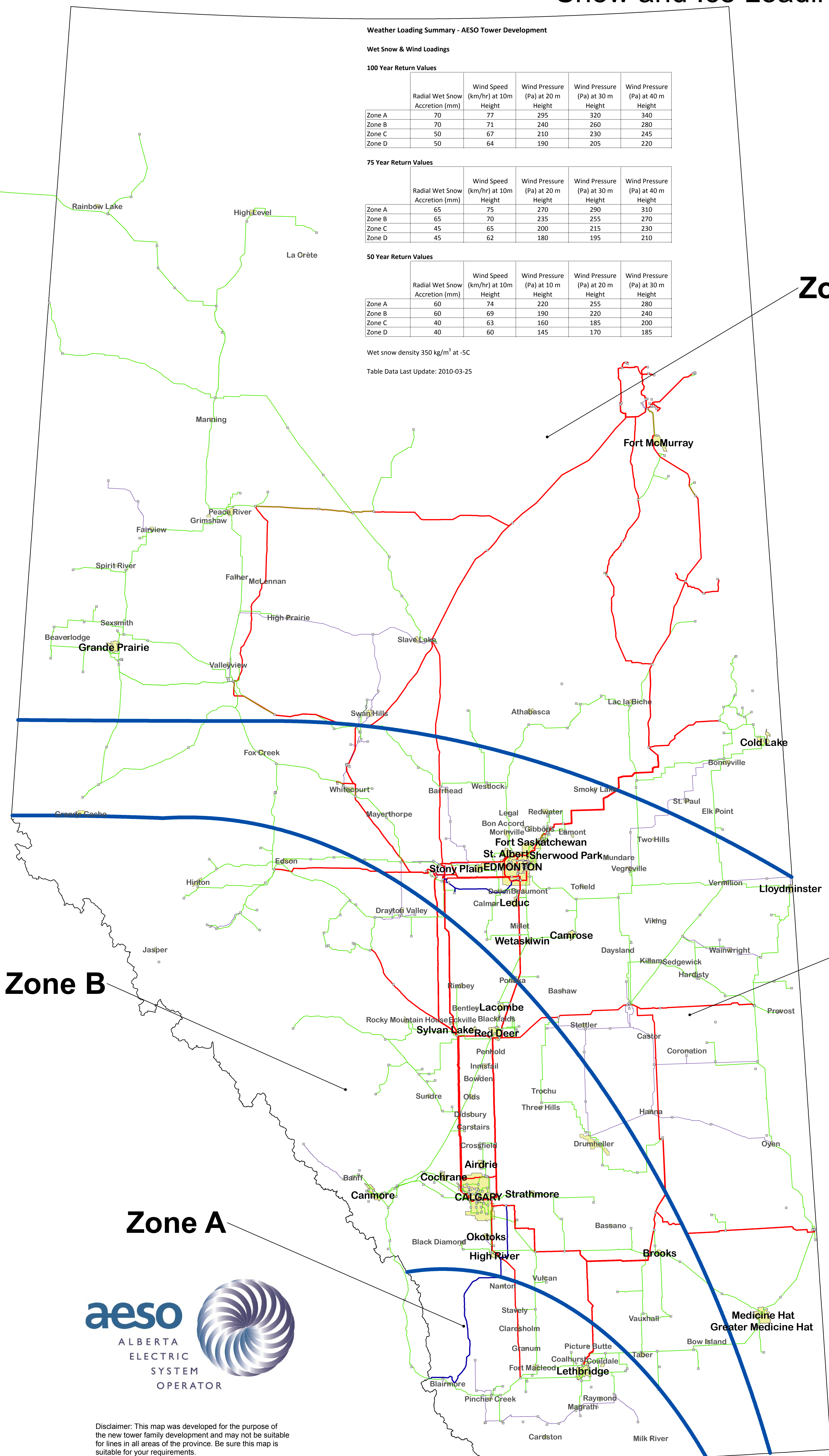
|        | Radial Wet Snow Accretion (mm) | Wind Speed (km/hr) at 10m Height | Wind Pressure (Pa) at 20 m Height | Wind Pressure (Pa) at 30 m Height | Wind Pressure (Pa) at 40 m Height |
|--------|--------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Zone A | 65                             | 75                               | 270                               | 290                               | 310                               |
| Zone B | 65                             | 70                               | 235                               | 255                               | 270                               |
| Zone C | 45                             | 65                               | 200                               | 215                               | 230                               |
| Zone D | 45                             | 62                               | 180                               | 195                               | 210                               |

#### 50 Year Return Values

|        | Radial Wet Snow Accretion (mm) | Wind Speed (km/hr) at 10m Height | Wind Pressure (Pa) at 20 m Height | Wind Pressure (Pa) at 30 m Height | Wind Pressure (Pa) at 40 m Height |
|--------|--------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Zone A | 60                             | 74                               | 220                               | 255                               | 280                               |
| Zone B | 60                             | 69                               | 190                               | 220                               | 240                               |
| Zone C | 40                             | 63                               | 160                               | 185                               | 200                               |
| Zone D | 40                             | 60                               | 145                               | 170                               | 185                               |

Wet snow density 350 kg/m<sup>3</sup> at -5C

Table Data Last Update: 2010-03-25



**Zone D**

**Zone B**

**Zone C**

**Zone A**



Disclaimer: This map was developed for the purpose of the new tower family development and may not be suitable for lines in all areas of the province. Be sure this map is suitable for your requirements.