

Explanation of Application Irregularities & Antenna Site Sketches

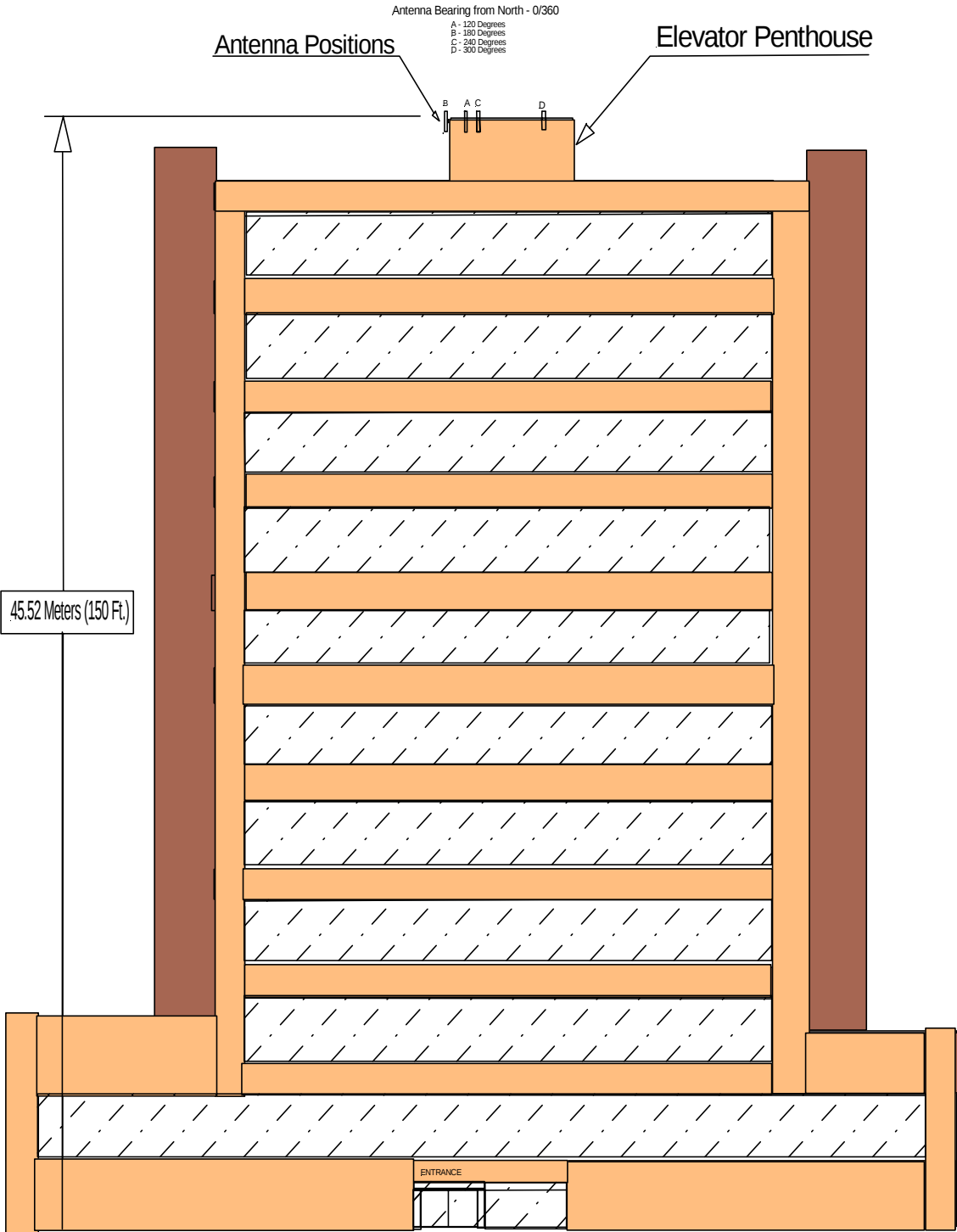
- **Datum** –The datum we used was WGS 84, as it was the only datum available that was common to our engineering group in California, the Garmin-Etrex GPS, and the Delorme Topo USA software that we use. All readings were taken by the Garmin GPS while standing at the base of each antenna structure.
- **Existing Transmitting Signal** – We will be using the MMDS frequencies identified by call signs WMH725 & WMI350. These include frequency blocks E and F, Channels 1 through 4, eight channels total. These frequencies are currently being transmitted from Capital Mountain at N47° 36' 17.00" W122° 19' 46.00". During our beta testing, we will disable these transmitters. Please see the license holders permission documents attached as "Exhibit 2".
- **Co-Channel Interference** – The only possible location for us to cause co-channel interference with this beta test is from the Seattle PSA. The Seattle PSA lies to the North / Northwest of our location. All twelve of our antennas will face a bearing from due north of 90 degrees to 300 degrees. This will eliminate any possible co-channel interference with the Seattle PSA. If objections are received from any license holder in the Seattle market, we will immediately re-aim our offending antenna to resolve their issue.
- **Antenna Positions** – On the FCC Form 442, we have identified a bearing for each of the twelve antennas we are intending to use for this beta test period. To enable us to perform a valid equipment evaluation we will need to periodically adjust these positions in order to identify operational circumstances that may occur with a full market launch. During this re-positioning, we will not aim these antennas in the direction of the Seattle PSA identified above. We also indicated that our vertical plane will be set at 0°. This will also be adjusted from 0° to 30° at various times in order to identify maximum effectiveness of our signal.

For all antenna attachments, the top edge of any single antenna will be less than two (2) meters above the highest point of the existing physical structure. (not including existing attachments to the structure.)

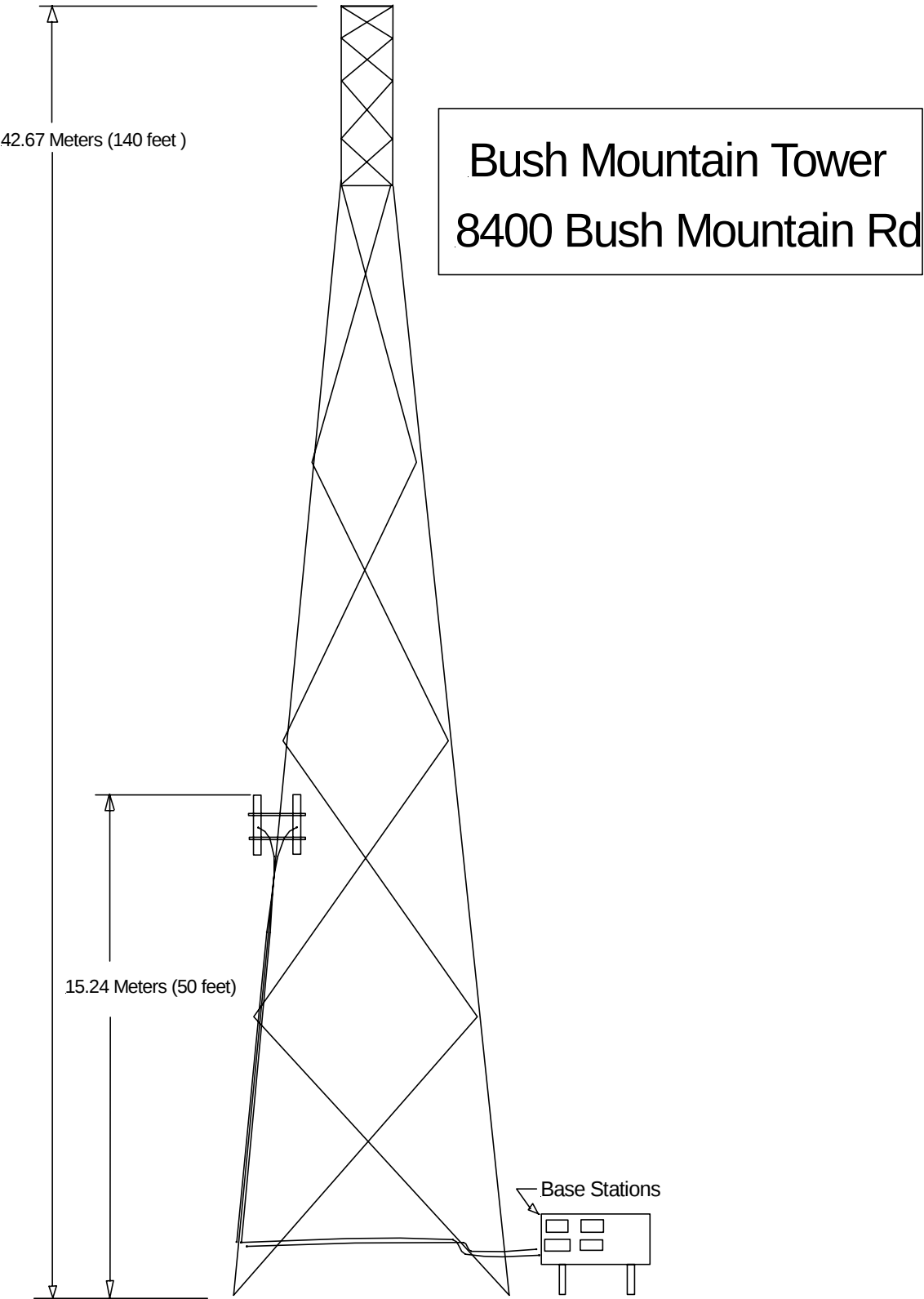
- **Antenna Types** – Currently, we have identified two types of antennas that we will be using during this beta test. We will want to test antennas from additional manufacturers that are yet to be identified. Because of this we used the Racal, 19dbi gain antenna for this application. This antenna has the highest gain of all antennas that we have considered to date, and any future unidentified antenna that we may use will not exceed this gain specification.

Location “A” 413 Lilly Rd NE., Olympia Washington

Saint Peter Hospital



Location “B” 8400 Bush Mountain Rd., Olympia, Washington



Location “C” 3922 Hoffman Ct. SE., Olympia Washington

Hoffman Court South East - Water Tower

