



50m XHD & 60m XHD TallTower™ Installation

USER'S MANUAL

Meteorological Tower Overview



Temporary Meteorological Tower Examples



Installation Process

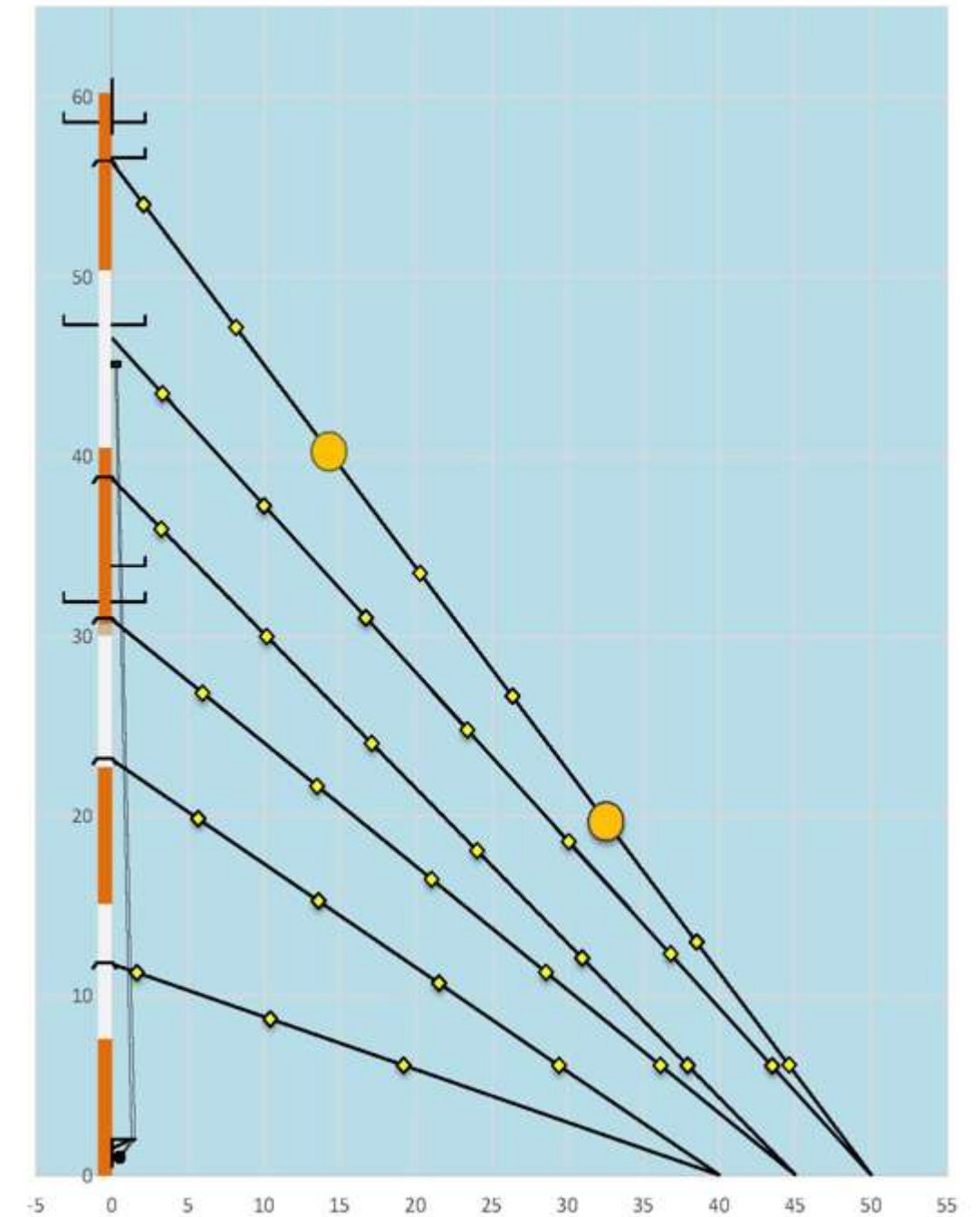
- Installation team of 3-5 people
- Vehicles include pickups, possibly a trailer, and skid steer
- Vegetation is only required to be cleared if it's taller than about 4-5 feet above ground
 - If cleared, it can be cleared to about 1ft above ground to help with re-growth and erosion mitigation
 - Maximum needed clearing is the “Christmas tree” shape shown on the next page
- The tower comes in sections which are put together on the ground in the lying down position
 - Nearly all of the work is done, including mounting the meteorological sensors, with the tower lying down
 - Afterwards, the tower is winched up with a gin-pole and the guy wires are tensioned into place
- Multiple anchor options exist, but typically it's a helical ground screw sold by NRG
 - Screw length is 5.5 feet long
 - Screws are removable and leave nothing behind

Anchor Options (non-exhaustive)



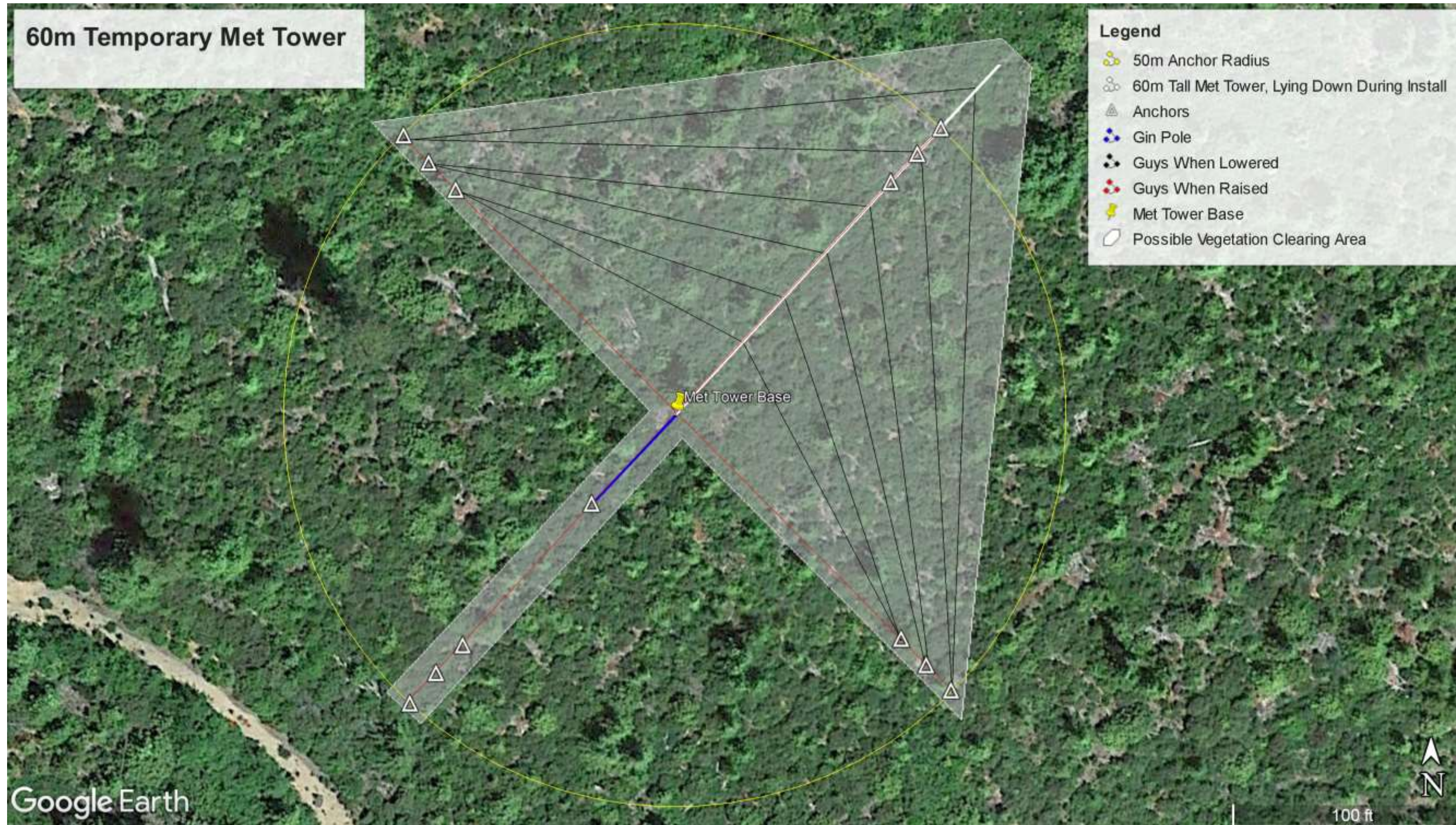
Tower Marking and Lighting

- Towers are painted in 7 bands of alternating orange and white
- Towers under 200ft do not need lights
- Guy lines have 8 marker balls, at 1/3 and 2/3 tower height on each guy
- Guy lines have guy guards at the base

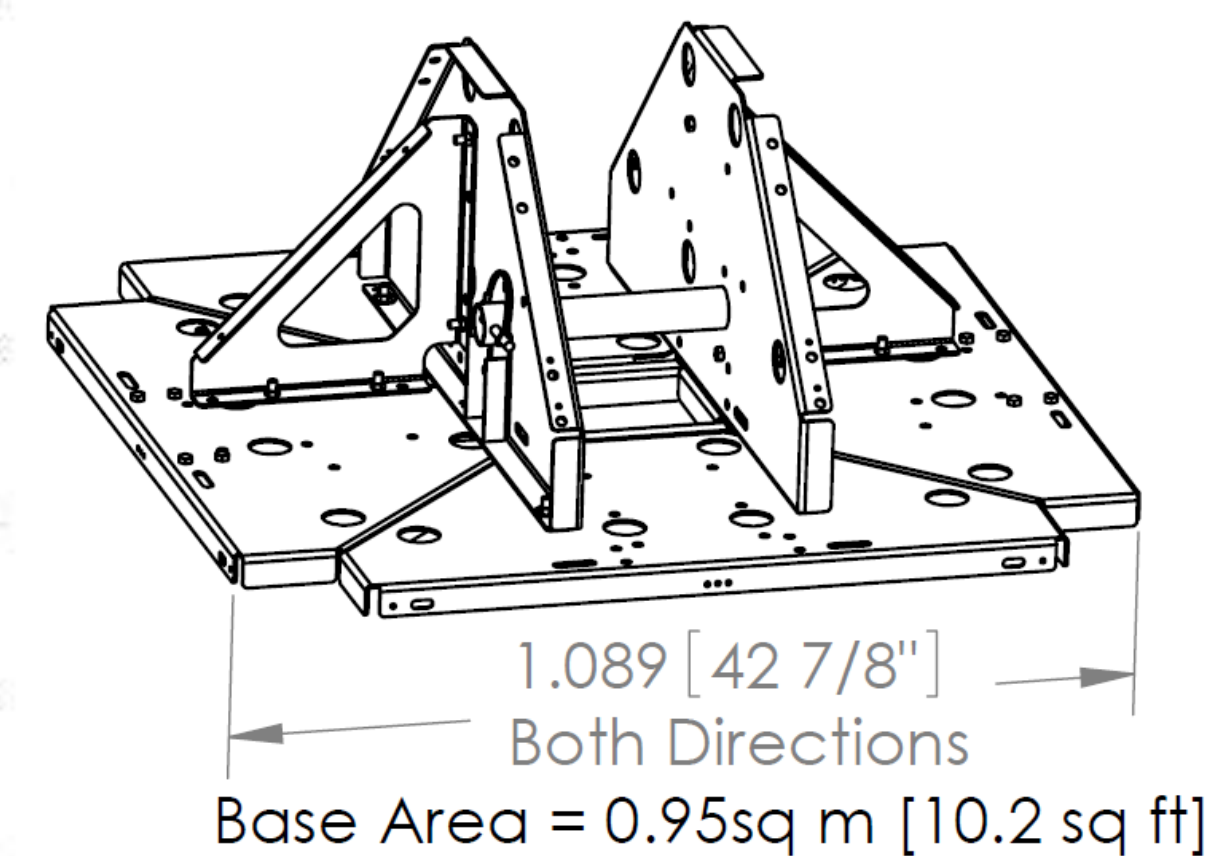
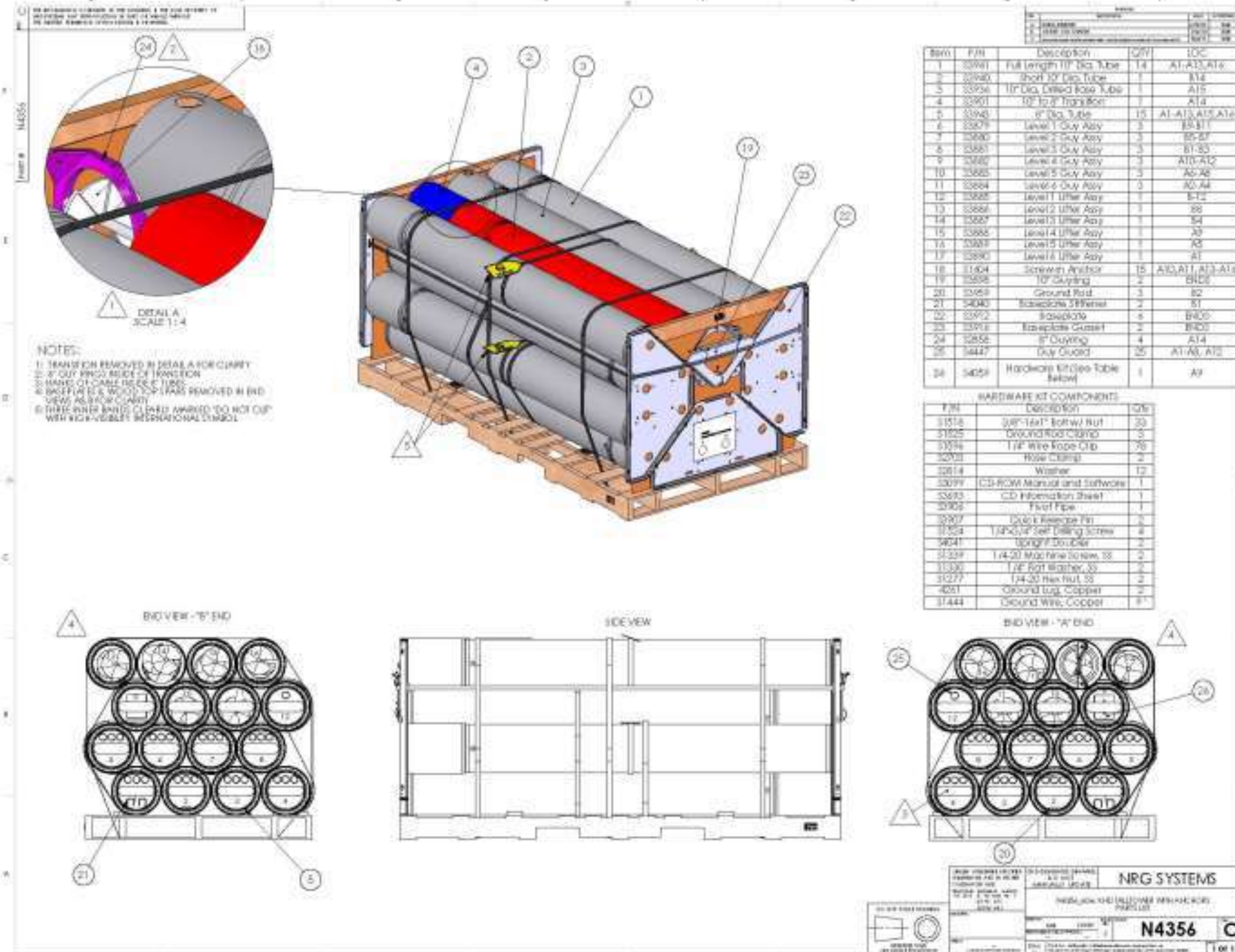


Layout During Installation

Maximum vegetation clearing needed would be the white “Christmas Tree” shape



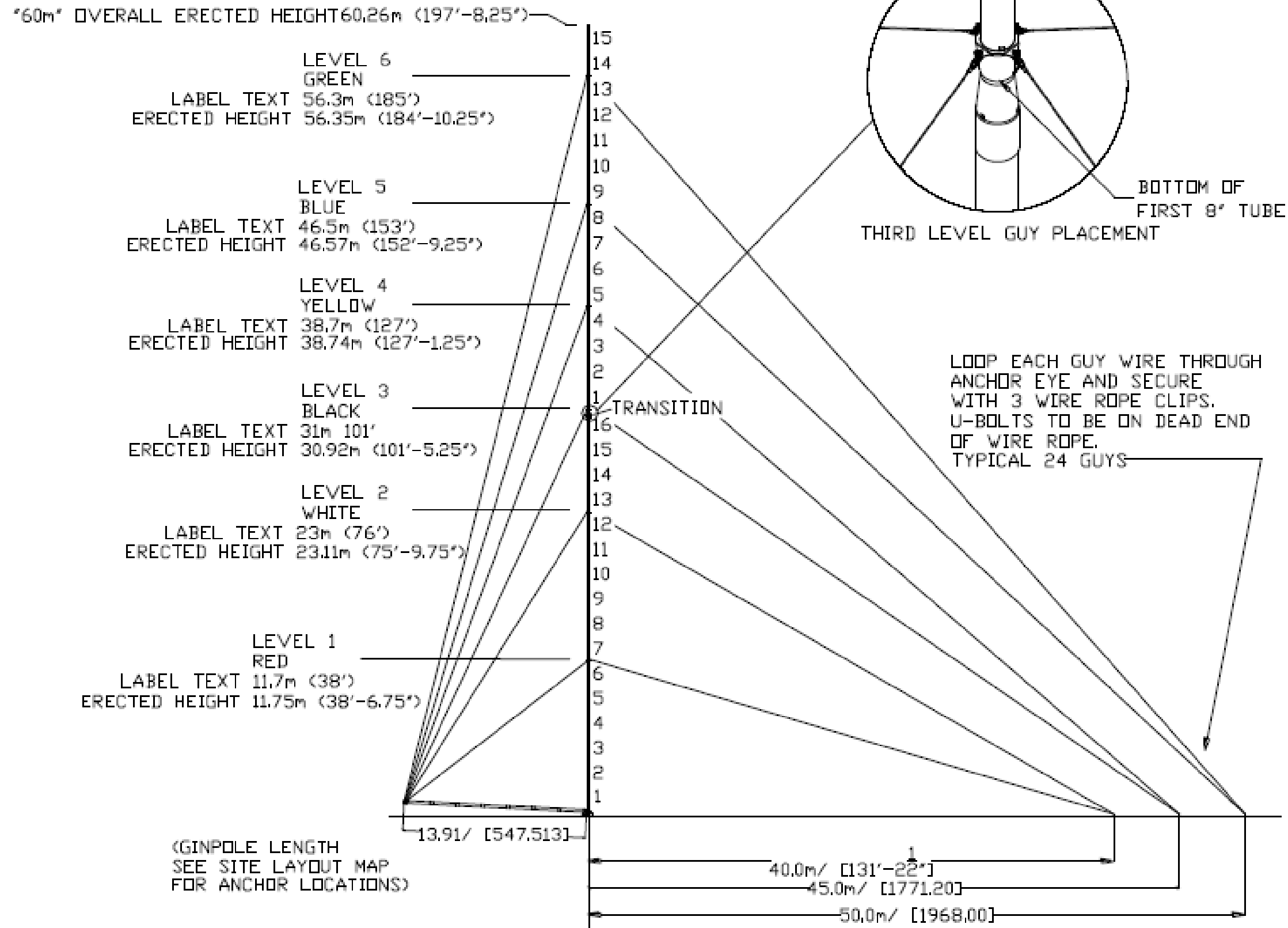
60m XHD Tower Package



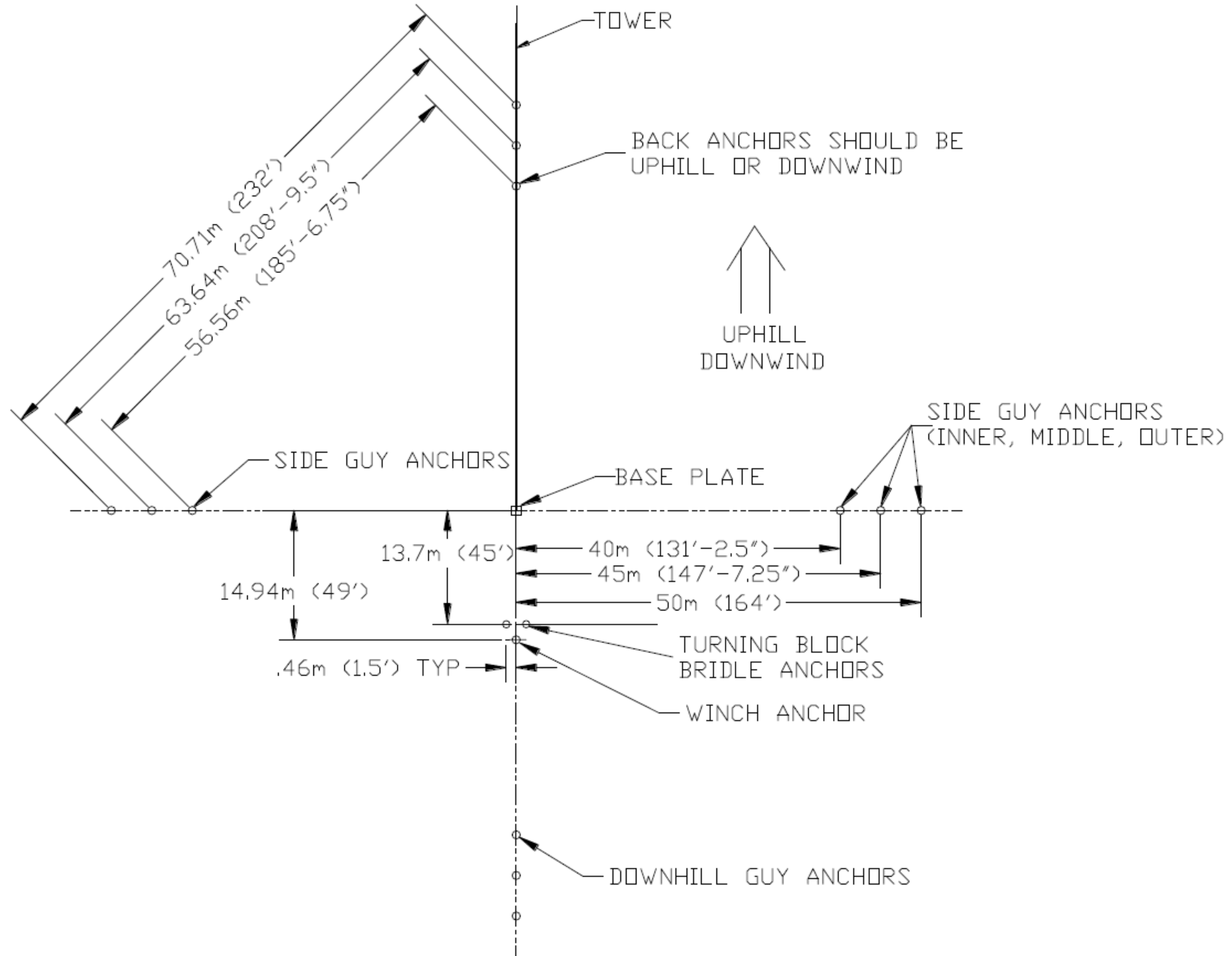
60m XHD Tower: Standard Footprint Elevation Profile

TUBE SPECS (In order of assembly)

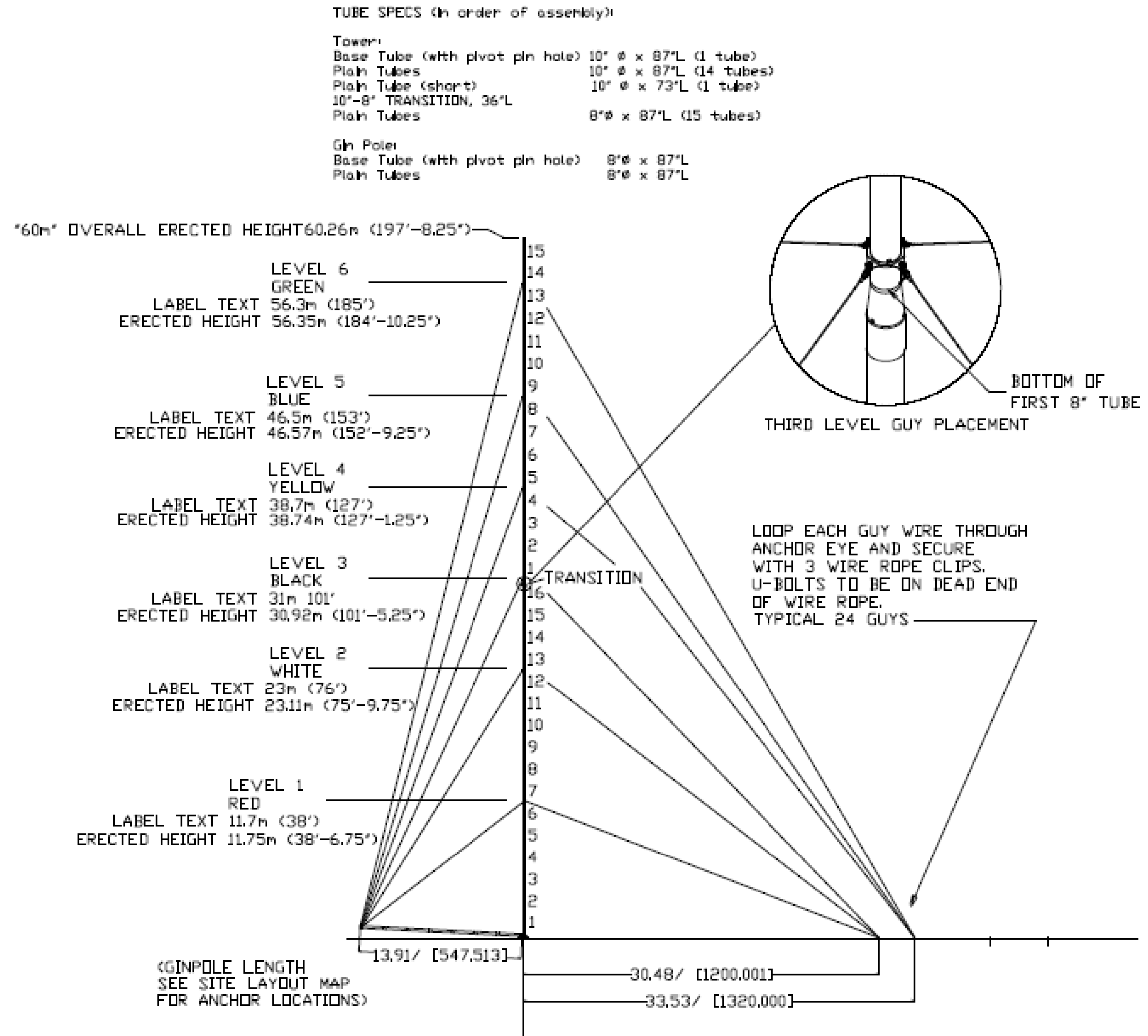
Tower:	
Base Tube (with pivot pin hole)	10' Ø x 87'L (1 tube)
Plak Tubes	10' Ø x 87'L (14 tubes)
Plak Tube (short)	10' Ø x 73'L (1 tube)
10'-8' TRANSITION, 36'L	
Plak Tubes	8'Ø x 87'L (15 tubes)
Gin Pole:	
Base Tube (with pivot pin hole)	8'Ø x 87'L
Plak Tubes	8'Ø x 87'L



60m XHD Tower: Standard Footprint Overhead



60m XHD Tower: Small Footprint Elevation Profile



60m XHD Tower: Small Footprint Overhead

