

AFS 350 Ballast Foundation and Self-Raising Monopole For G3 / Crane Naval Base

Crane, IN

OVERVIEW

ARE Telecom was contracted by G3 to design, manufacture and install three AFS 350 ballasted foundation systems with a customized tilt-up/self-raising monopole to support communication antennas on a military naval base in Crane IN. The antennas had to be easily rotated in order to precisely adjust their orientation. The foundation had to be above ground with a limited foot print and easily movable.

SOLUTION

ARE designed a pole providing G3 with a simple solution to change the orientation of the antennas using rotating aluminum plates. The pole can be raised and lowered with a motorized screw jack. The top section can be rotated while resting horizontally on a pedestal.

The foundations were pre-assembled in our warehouse to meet the time constraint of the customer and the 3 systems were installed in 3 days on the site.

Project benchmarks:

- Crew flexibility and equipment availability allowing for fast installation on short notice
- Antennas installed on ground level eliminating need to climb
- Install AFS 350 foundation and pole with small footprint without use of crane
- Easy solution to rotate the antennas

PROJECT RESOURCES

2 man crew, 3 day assembly of foundation & pole, 1 Skid Steer, gravel used for ballast.



CHALLENGES

- Easy rotation of antennas
- Tilt-up pole raised and lowered with a motorized screw jack (no need for a crane)
- Quick to install, small footprint



3 AFS 350 & poles shipment



Site leveled



Foundation with ballast



Pole installation



Motorized screw jack to raise the pole



Customized aluminum plate allowing for precise positioning of the antenna



Install AFS 350 and pole