



ARE Telecom + Broadband

AFS 1100 Ballast Foundation and 90' Self-Raising Pole Charlottesville, VA



OVERVIEW

Crown Castle needed to install communication antenna on a 90' pole in a historically sensitive site. In addition, the site had a small footprint and accessible only over a wooden bridge with a maximum weight of 8 tons. ARE's foundation and pole system also needed to meet local requirements for aesthetics and paint color.

SOLUTION

Thanks to its hydraulic system, ARE's AFS 1100 system can be installed without a crane, in tight spaces and with limited impact on the environment. Foundation and pole pieces were ferried across the bridge and assembled on site. ARE's crew installed the system in a few days which included OSHA approved railings and ladder, demonstrating ARE's ability to customize our systems to meet nearly any customer need.

Project benchmarks:

- Crew flexibility and equipment availability allowing for installation under challenging time constraints
- Mobilize all equipment, tools and ballast
- Level base to set foundation
- Install 50 ton AFS 1100 foundation and 90' pole within limited space without use of a crane

CHALLENGES

- Limited space and access
- Foundation parts brought across 8T max weight bridge
- Significant logistics planning due to limited access
- Quickly deployed in rain and wet conditions

PROJECT RESOURCES

4 Man Crew, 3 Days, Skid Steer, Telehandler



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Area used to stage materials for later transport across bridge to job site



System brought section by section to the site over 8T max weight bridge



Very limited space to install the foundation



Leveled foundation pad with kingpost



Foundation with truss arms



Foundation with ballast



Foundation and hydraulic rams



Foundation with guard rail, System painted per customer's request



Pole raised by hydraulic rams



AFS 1100 & 90' self-raising pole