

Ballast Foundation - 80' Self- Raising Monopole

Woodstock, Vermont



Client: U.S. National Park Service

Location: Marsh-Billings Rockefeller National Park

Date: June 2015

Product:

ARE Telecom provided the U.S. National Park Service to mobilize and install our AFS 1100 ballasted foundation system with an 80 foot tilt-up monopole and hydraulic raising system to support a solar powered communication antennae to the Park.

Solution:

ARE's AFS 1100 ballasted foundation system is a versatile system designed to provide ease of portability and installation while providing a solid base for monopoles up to 80' feet. Our hydraulic pole raising system allows the pole to be installed and lowered without a crane. This results in significantly easier maintenance and repairs.

Benchmarks:

- Pre-install logistics plan developed due to remote installation
- Mobilize all equipment, tools, and ballast up to half-mile logging trail
- Prepare compacted gravel base and assemble ballasted foundation
- Install 80' slip-joint monopole and hydraulic system
- Install R-56 compliant grounding system and four 150W solar panels

Project Resources:

- 11 person crew
- 1 day assembly of foundation & pole
- 1 skid steer
- 1 telescoping telehandler

Challenges:

- Remote location logistics.
- Inability to use crane due to difficult geography.
- Geotechnical conditions not allowing conventional concrete foundation.
- Rapid Installation required.
- Minimal disturbance to environment.

ARE CONTACT INFORMATION:

Phone Number:
+1 (651) 330-1263

Email:
Sales@aretelecom.com

AFS 1100

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