Anchors and Foundations for Telecom Industry

A CASE HISTORY

Site Owner: Centennial Communications
Location: South Bend, LA

Tower Supplier: Sabre Communications, Inc.
Foundation Contractor: Two-Way Communications, Inc. Lafayette, LA

Tower Type : Guyed (5 Levels)
Tower Height : 300'-0
Center (Base) Reactions:
Maximum Compression 142.0 kips*
Maximum Groundline Shear 1.3 kips
*Plus weight of concrete pile cap of 60.0 kips
Design Load/Guy wire: 93.4 kips
(7 Guy wires into a single termination point)
Soil Profile:
0 - 25' Soft clay
25' plus Firm clay
Center Piles:
12 Type HS with 35'-0 of plain extension
Ultimate Capacity (UCt) = UCb + UCf
UCt = 34.0 + 0.0 = 34.0 kips
Guy Anchors:
Six Type SS5 anchors per guy wire termination point. The six guy anchors were connected to the seven guy wires via a spreader beam and fan plate assembly.
Installation Equipment:
Case backhoe equipped with a 12,500 ft-lb drive motor with an internal torque-monitoring device
Track mounted rig equipped with a 12,500. ft-lb drive motor with an internal torque-monitoring device. Drive motor is located in a set of leads.

• Twelve HS piles and rebar for tower mast

• Installing guy anchors

• Seven guy wires to six SS anchors via dual speaders and fan plate

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