



**A CASE HISTORY**

# Anchors and Foundations for Telecom Industry

Site Owner: American Tower Corporation

Tower Supplier:

Allied Tower

Foundation Contractor:

Lomas Construction

San Antonio, TX

Location: Chacahoula, LA

Tower Type : Guyed (4 Levels)  
 Tower Height : 300'-0  
 Center (Base) Reactions:  
 Maximum Compression 314.6 kips\*  
 Maximum Groundline Shear 6.0 kips  
 \*Plus weight of concrete pile cap of 40.0 kips  
 Design Load/Guy wire: 21.0 and 34.0 kips  
 Soil Profile:  
 0 - 15' Soft clay  
 15' - 20' Loose sand  
 20' plus Firm clay  
 Center Piles:  
 12 Type HS with 30'-0 of plain extension  
 Ultimate Capacity (UCt) = UCb + UCf  
 UCt = 63.0 + 0.0 = 63.0 kips  
 Guy Anchors:  
 Two Type SS5 anchors per guy wire connected to an 18" Adust-A-Grip® Deadend Grip for DL= 21.0 kips/ guy wire  
 Installation Equipment:  
 John Deere 410D Heavy-lift backhoe equipped with a 12,500 ft-lb drive motor with an internal torque-monitoring device  
 Posi-Track equipped with a 15,000. ft-lb drive motor with an internal torque-monitoring device



- Individual guy wires, each to two anchors



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