

Ram Jack® Case Study

HDR of Phoenix • Phoenix, AZ



ECO-FRIENDLY

Situation: In early 2007, Arizona Ram Jack was contracted by the construction company named HDR to provide the foundations for infrastructures that would support and maintain a 4 million gallon underground water storage tank. This tank will provide the water supply for the development being done by one of Arizona's Indian nations. This project came about through engineer contacts made by Mr. Bob Brown, owner of Arizona Ram Jack.

Solution: Mr. Brown has made it one of his top priorities to make contact with and maintain a regular dialogue with professionals and people of influence within his field. He has realized the importance of these contacts to the overall success of his business and the ease that good relationships with professionals provides in getting jobs specified and produced. Once the underground storage tank was in place, construction began on the infrastructure. The installation of the tank and its supply and distribution lines required the excavation and re-compaction of, in some locations, 40 feet of soil. The design engineers specified a variety of different helical sizes and shaft diameters for the foundations needed. HDR's engineering staff worked closely with Ram Jack's engineers and was able to develop a suitable design. The constant cross section and patented design of the Ram Jack® Helical System gave the engineers the foundation support needed.

Conclusion: The design of the pump station and control buildings did not allow for any movement in their foundations. Once the design loads were established based on this criteria, a series of proof tests were set for the foundation anchors. Ram Jack's team of field personnel and engineers performed a total of three Pile Load Tests on the project. The piers were required to support 200% of the designed ultimate load. Each pier tested performed to the established criteria ensuring that the foundations would function as designed. Thanks to the efforts of Mr. Brown, the Ram Jack® team, and the overall success of this project, Ram Jack's involvement in at least two more future projects with HDR has been ensured.



Strength and Stability

888.332.9909 TOLL FREE

www.ramjack.com WEB

RAM JACK®
FOUNDATION SOLUTIONS