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Public Works Washout Facility Grit Dump, Steamboat Springs, CO

In early 2023, the town of Steamboat Springs began construction of a washout facility for the Public Works Department. The new building spans roughly 4,500 square feet and features reinforced concrete grade beams on both the interior and exterior. Due to the presence of a man-made fill and soft clay layer, a deep foundation system consisting of helical piers was recommended. Duckles Construction, the selected general contractor, engaged Ram Jack of Colorado to install the helical piers.

Ram Jack of Colorado evaluated the loading and soil conditions to determine the appropriate helical pier sizes and helical configurations. The design loads for the helical piers varied from 20 to 75 kips, depending on the location. Four different Ram Jack pier shaft sizes (2-7/8", 3-1/2", 4-1/2", and 5-1/2") were used to come up with an economical design by sizing piers based on the varying loads. All piers were configured with a double helical lead section ranging from a 10/12 to 14/16 helical disc diameter. Piers were sized for each location to achieve the required design load while providing an efficient cost per pier.

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Ram Jack of Colorado installed (79) helical piers within two days to keep the project on schedule. A 60,000-ft-lb capacity direct drive torque head mounted on a 30-ton excavator was used to install the 4-1/2" and 5-1/2" helical piers and a 25,000-ft-lb capacity direct drive torque head mounted on a backhoe for the 2-7/8" and 3-1/2" helical piers. The Steamboat Springs Washout Facility is an impressive testament to the quality and versatility of Ram Jack of Colorado's products and equipment. Ram Jack of Colorado continues to prove that we have solutions for all kinds of project designs and installation requirements. Contact our team today to learn more or to schedule a lunch and learn for your organization.

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