

## **Category 8: Best Building Project – Subcontractor – Non-MEP (Under \$2M)**

**Contractor: Baker Builders**

**Project Name: South Adams County Water and Sanitation District**

Water treatment provides an essential necessity for clean, safe drinking water to a community. Buildings for water treatment facilities have specific challenges including high moisture conditions, equipment clearances, platforms, component supports, special construction phasing and more. As an experienced metal building contractor, Baker Builders has successfully completed several of these specialty projects including the recent South Adams County Water and Sanitation District project.

Moltz Construction Inc. reached out to Baker Builders as a repeat partner for design assist, supply and erect of an Industrial pre-engineered metal building package for the South Adams County Water and Sanitation District. This new 29,000 square foot building would serve as the county's water treatment facility specifically handling the water softening services.

The architect, Short and Brennan Architects, designed an energy code compliant structure with insulated metal roof and wall panels and a specially integrated Kalwall translucent wall system to allow natural light to pass into the building providing natural light to the workers inside.

Baker Builders provided a Varco Pruden PEMB package which included all hot dip galvanized components to combat the natural water borne environment. We closely coordinated with the project design team utilizing BIM and 3D modeling technology to ensure the interior clearances were met and accommodated for specific functionality of equipment, platforms, cranes, and electrical component supports. This project was designed as four independent building shapes with expansion joints tying them all together yet independent to allow for thermal expansion and contraction.

MetlSpan insulated metal panels provided the 3" CFR standing seam insulated roof panel that not only met the energy requirements but also provided a warrantable weather tight condition for the client. There were multiple exterior panel types and colors to create proper aesthetic appeal which consisted of TuffWall stucco panel, Striated, and Mesa 2" insulated wall panels.

Construction challenges including building around platforms, pellet silos and other equipment required closely coordinating sequences with the general contractor to erect the building in conjunction with other products and devices being installed by other trades. Safety is a top priority of Baker Builders and our safety plan on the jobsite required staged deliveries of primary and secondary steel, followed by panels and trim to allow ample work and storage space rather than cluttered and congested site conditions. Roof sections were assembled on the ground and placed with a crane to minimize the risk of erecting steel over equipment. We coordinated concrete pours and the installation of platforms with Moltz and other subcontractors ahead of the building erect sequence to ensure no other trades were present and safe conditions were maintained. Construction innovations included utilizing 3D models to ensure proper clearances and eliminate building interference with equipment, platforms and cranes.

The project was recognized for excellence by Varco Pruden Buildings as a Hall of Fame winner in the Hybrid category. The Varco Pruden Hall of Fame contest annually recognizes top architectural projects built by authorized Varco Pruden Builders. Winning projects display innovation and excellence using Varco Pruden building systems by creating exceptional architectural appearance, efficient design, and effective end-use. The South Adams County Water and Sanitation District project is another in the line of successful projects for the Baker Builders/Moltz partnership.









