

A Team Approach Creates a Secure, Natural-Looking Wall Solution

by Julie Taylor

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A popular Walmart store in Corona, California, was originally surrounded by a large, stacked block wall 1,400 lineal feet in length and more than 20 feet high. Unfortunately, movement was discovered in the wall creating a dangerous scenario that threatened several homes above and behind it as well as initiating other safety concerns for the entire area.

A drilling contracting company from Carlsbad, California, was hired to anchor and stabilize the wall. A tie-back system was used where a multitude of deep holes, eight inches in diameter were bored into the soil behind the wall. Then, 80-100-foot-long cables were lowered into the holes and grouted. Large, flat metal rings were installed over the holes. A large machine pulled on the plates, which then slid the cables, forcing the retaining wall back into its proper place. To permanently hold the wall, large steel nuts were attached over each plate.

Walmart executives were pleased with the first phase of the work, but it looked raw and unfinished. How, could such a significant structural element surrounding the store be made more aesthetically pleasing? What options were available? An initial thought was to cast-in-place concrete to create a new face to the wall, but that process is always time-intensive and extremely expensive. They needed to find a more affordable, fast, and effective solution.

Luckily, ADSC Contractor Member, Boulderscape had been involved since the very beginning of the project due to a long-standing relationship with the contractor. "We're fortunate to have Boulderscape on our team," says the vice president of the other contracting company. "Boulderscape is always our first choice. They are so professional and they do a great job. It's a pleasure doing business with them. We've worked with Boulderscape over a number



The condition of the "wall" to be replaced prior to new construction.

of years and we are always extremely happy with the results and so are our customers." He explained that this team approach with Boulderscape starts at the proposal level of each project. "It truly creates a win-win and allows all of us to be part of the planning process, knowing that when we leave a job site, we've covered all the details and the client is left with a beautiful, custom looking wall."

That being said, Steve Jimenez, Vice President of Commercial Sales at Boulderscape, came to assess the situation months earlier before work ever began on the stabilization of the wall. Because there was no visible geology available nearby to repli-

cate, Jimenez determined that a sandstone finish with some natural looking cracks could make the wall appear as if it were a recently excavated cut slope. "I believed it was the perfect choice for the size and scope of this project," says Jimenez. The drilling contractor had no choice but to leave large, ugly steel plates that were visible everywhere, sticking out sometimes 10-12 inches throughout the entire length and height of the 20-foot high wall.

"Our popular sandstone finish is easy on the eyes because the colors are soft and the shallow cracks add even more softness to

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The finished product provided engineered ground support and attractive architectural treatment.

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the look," he said. "Walmart executives quickly approved the photo simulations we used with Photoshop because we were able to show what their specific wall would look like with our custom designed shotcrete finish before the project ever got started."

Once the initial plan was approved and the stabilization portion of the project was completed, the Boulderscape team moved into high gear. There are three key steps to the process. First, they began by installing a very thick layer of structural shotcrete about eight inches thick to the wall face, section by section. A second architectural shotcrete layer, one to three inches thick was then applied. "While it was still wet, our expert artisans came in and produced the approved finish into the wet concrete, sculpting a fractured, sandstone look with free hand," says Jimenez. "The final step was the application of stain, which brought the colorless surface to life. The entire process took six experienced team members a total of 14 days – typically half the length of time it takes for other types of wall finishes."

Boulderscape's solution also saved Walmart money. According to Boulderscape, "our technique is 30-40 percent less expensive than traditional cast-in-place form or form-liner finishes. It's also 40 percent less than an architectural stone veneer, which is another popular facade these days."

The contractor stated, "It's natural-looking, cost-effective, easier to expedite and ultimately, for the kind of work we do, it's more of what our clients are looking for. Boulderscape did a beautiful job with this retaining wall."

Jimenez reinforced the importance of the team effort. "Because of the collaborative attitude of everyone involved, we were able to turn what might have been a disastrous initial situation into an aesthetically pleasing and highly believable looking retaining wall that is now safer and more secure than ever before."

For more than 25 years, Boulderscape has been an industry leader in designing, fabricating and building custom geological architectural wall finishes. Fast, efficient and affordable, Boulderscape's message is "practical solutions that are detail-oriented, artistically appealing, and easily applied to any retaining wall system." Boulderscape – retaining nature, sustaining beauty.

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