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Kaiser Permanente Hospital

Headquartered in Oakland, CA, Kaiser Permanente wanted to stick to their hospital template that is used throughout the west coast when looking at building a new medical center in Oregon. Forced to alter their original plans for the Westside Medical Center in Hillsboro, OR, the architects, engineers and general contractor got creative when they began working on the 15-acre construction site. Designers opted to raze the



site using an MSE retaining wall. The site would contain a 110,700 square foot specialty medical office building, 27,300 square-foot central utility plant and a 915-space parking garage.

The use of a large modular block for the MSE wall, as opposed to a smaller, more labor intensive product, provided structural stability as well as cost savings.



The project presented some challenges related to wall engineering. Wall heights of approximately 28 feet tall, seismic considerations, as well as significant loading from the actual hospital structure all needed to be well thought out. Time was critical and the start of building construction was dependent on the StoneTerra wall installation.

StoneTerra's 1:24 batter reduced the wall footprint and maximized the useable area for building and parking. Custom blocks were also created allowing for the placement of a loading dock adjacent to the wall. The triangular opening created by the blocks tapered sides allowed for fence posts to be placed close to the face of wall.

The installation contractor compared building the wall to playing with Legos, "We couldn't believe the amount of square footage that could be installed per day. The system is simple and works well".

Location: Next to the Kaiser Sunset Medical Office at 19400 NW Evergreen Parkway, Hillsboro, OR 97124

Engineers: Catena Consulting Engineers, Mazzetti Nash Lipsey Burch, W&H Pacific

Contractor: Anderson Construction