

PROJECT PROFILE

PRODUCT

Landmark retaining wall system

MANUFACTURER

PT. Conbloc Internusa

SITE CONTRACTOR

PT. Lampiri Djaya Abadi

WALL DESIGN ENGINEER

Suryanto Herlambang (M.Sc.)

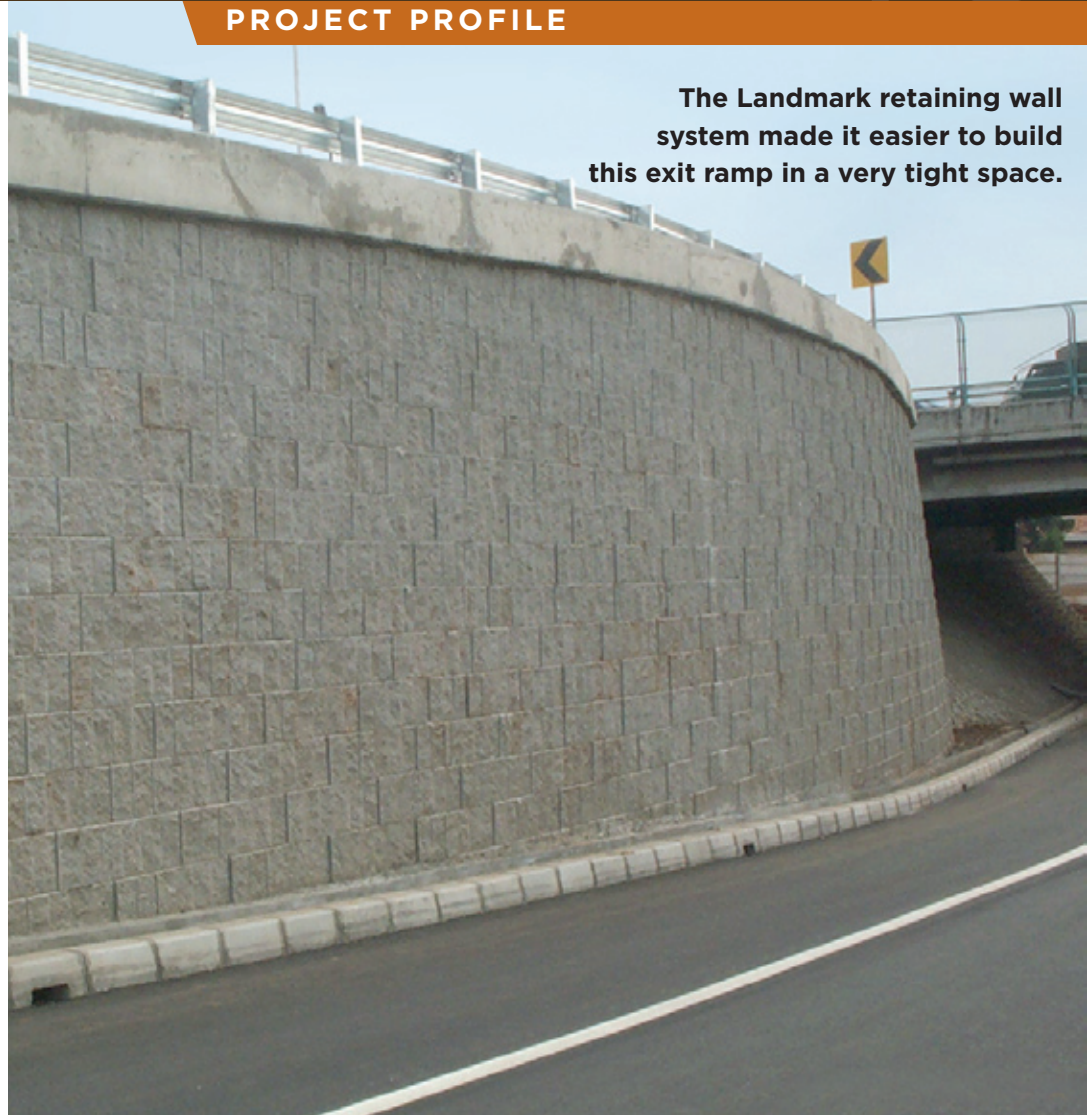
OWNER

PT. Jakarta Baru Metropolitan

WALL DIMENSIONS

9,850 square feet

23 feet tall



The Landmark retaining wall system made it easier to build this exit ramp in a very tight space.

Gading Serpong Exit Ramp SERPONG HIGHWAY; TANGERANG, INDONESIA

THE CHALLENGE

While preparing a design to meet the demand for an additional exit ramp to the Serpong Highway in Tangerang, engineers faced several challenges. First, the ramp had to be built in a tight location next to a 6-foot-tall reinforced-concrete parapet wall. Then, there were large storm water drainage pipes and several manholes located where the ramp would be built. Also, several light poles and underground electric cables were located in proximity to the wall. Finally, construction timelines were short.

THE SOLUTION

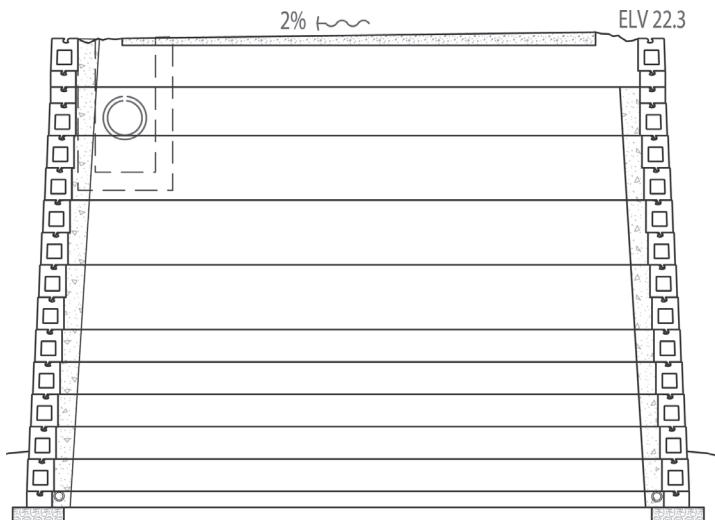
The engineer chose the Landmark retaining wall system when he designed two segmental retaining walls to meet all of the challenges of this exit ramp project. Especially important in his consideration were the time and money saved building with the Landmark system versus using conventional poured-in-place concrete walls. Also, he designed a special concrete cap for the top of the wall to accommodate the traffic barrier and traffic signs.

EVALUATED BY HITEC IN THE UNITED STATES, RTA IN AUSTRALIA AND BBA IN THE UNITED KINGDOM.

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THE RESULT

Because of heavy tropical rainfall, construction of the ramp was delayed. However, once construction was started, the two Landmark retaining wall systems were built as planned, still saving time and money. The Serpong Highway now has an additional exit ramp, the nearby wall was not affected during construction and all utilities are accessible.



Building around utilities was one of the challenges of this project.



The Landmark retaining wall system, evaluated by the RTA in Australia, BBA in the United Kingdom and HITEC in the United States, was used to support both sides of this exit ramp.

HITEC-EVALUATED

For high performance under extreme loading conditions, the Landmark retaining wall system is a cost-effective option evaluated by HITEC. The Landmark system features a unique mechanical connection, which allows the system to generate extremely high connection values, independent of blocks above the connection. Developed specifically to meet the high standards of the transportation industry, the performance features of the Landmark system make cost-effective design solutions possible using either the American Association of State Highway and Transportation Officials (AASHTO) or the National Concrete Masonry Association (NCMA) design methodology.

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