

# TERAMESH WALL FOR RESIDENTIAL BUILDING

Muscat



## TERAMESH WALL FOR RESIDENTIAL BUILDING

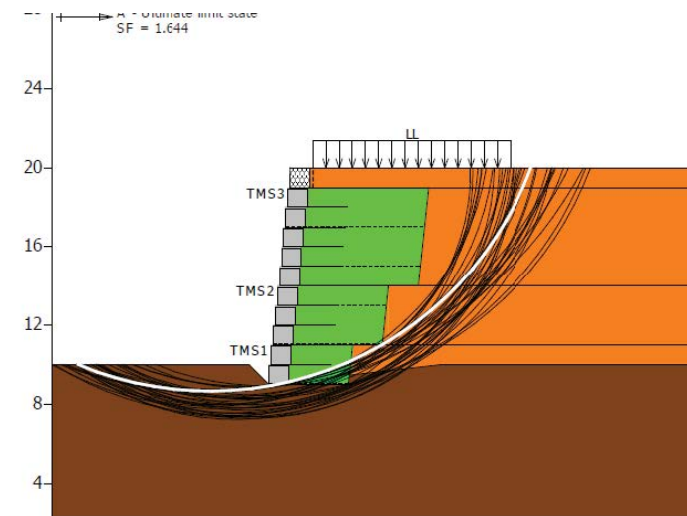
|                              |                      |           |                            |              |
|------------------------------|----------------------|-----------|----------------------------|--------------|
| TYPE OF PROJECT              | YEAR OF CONSTRUCTION | CLIENT    | CONTRACTOR                 | DESIGNER     |
| Mass Gravity Retaining Walls | 2016                 | Mr. Zayed | PZ International LLC, Oman | Intec-Tusker |

PROD. RELATED  
TerraMesh (1,000m2)

## Challenge

The proposed “15.002 ZAZV Private Residential Villa” project site was located at Shati Al Qurum, Opp. to Royal Opera House, Muscat, Oman. The project site topography was a sloped Terrain with an elevation difference of 10-12m from the design gate level. Hence construction of a Retaining wall was inevitable. However, the owner of the project wanted an

alternative retaining wall solution other than the conventional RC Retaining wall with a reduced cost and have a different aesthetic, environmental friendly appearance. Thus the consultant recommended Maccaferri for a better retaining wall solution which meets the requirements of the project owner.



Section



During Construction

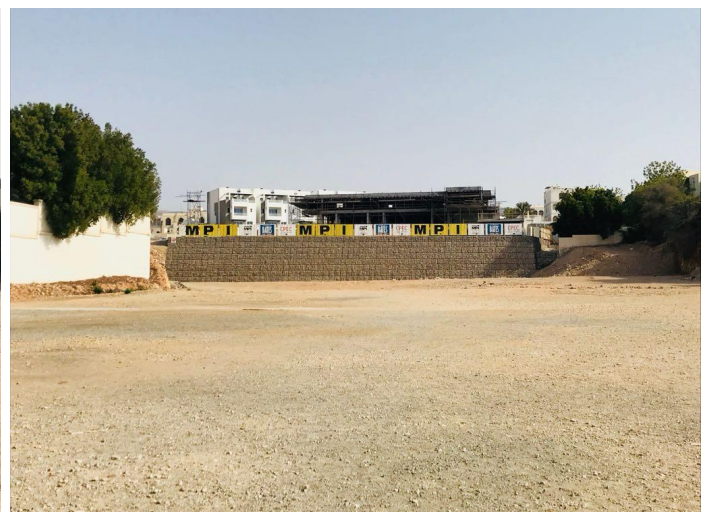
## Solution

Maccaferri was thus invited by the client & consultant to provide a design, supply and construction supervision solution of the ~10m high retaining wall for the proposed residential building project mentioned above. Based on the nature of the project, Maccaferri's ParaMesh Retaining wall system was proposed by our design engineers, finding it as the best fit solution for this project. Typically, ParaMesh is a composite soil reinforcement system with different types of soil reinforcement used with the following Maccaferri

products: Terramesh System® (TMS), a double twisted hexagonal steel wire mesh unit which forms the fascia, with the aesthetics of gabion and with the reassurance of a secondary soil reinforcement to prevent sloughing failure of wall face. ParaLink® (PL), a high strength polyester geogrid (Primary Reinforcement), Geotextile (Non Woven), is used as separator between the inside face of the Terramesh system (gabion fascia) and the structural fill soil in order to prevent escape of the fine particles from backfill into the gabion fascia voids.



During Construction



After Construction



**OPEN GOOGLE MAPS**



**OPEN GOOGLE EARTH**