

Slopes reinforcement for the flagstaff ground with gabion technologies application.
Caspian sea coast in Azerbaijan Republic

Environmental/Geotechnical Engineering/Soil reinforcement/Retaining walls/
Terramesh System

Description:

Baku is the capital of Azerbaijan. It is the scientific and industrial center for the country and a large seaport on the Caspian sea. The city occupies the Absheron Peninsula that juts into the Caspian Sea from the Western shore and rises 150 meters above sea level to the South. It is on this elevated area that the country decided to build a park with triumphal flag in commemoration of their past president, as the location allows for an unobstructed prospect of the city center to the north and vice versa. This park project required construction and reinforcement of an artificial hill that would slope downward to almost sea level. The project included both engineering and architectural elements whilst taking into consideration severe seismic activity.



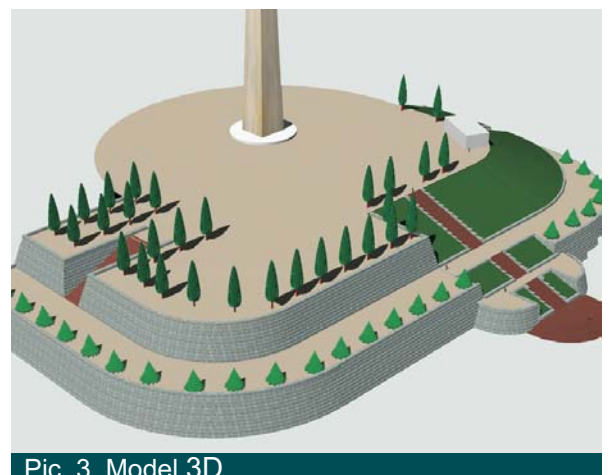
Pic. 1 Baku



Pic. 2 Hill overview before reconstruction

Solution:

Given the complexity of the project, a combination of Terramesh, Paragrid 500, Paragrid 100, geotextiles and gabions were recommended and approved to solve heavy loads, wind and water erosion and drainage issues materials that also supported aesthetic considerations. Eight types of reinforcement schemes were utilized and local soils were deemed acceptable as backfill. The project is currently underway



Pic. 3 Model 3D

employing over 200 local workers. Our design group and engineers are working closely with the local contractor to ensure a quality installation.

Client:

«Azenco»

Project designer, engineering maintenance:

«MACCAFERRI GABIONS CIS»

Contractor:

«Azenco»

Solution:

Terramesh; Gabions; Reno Mattresses
Paralink; Paragrid

Timing:

Construction date:	June 2008
Completion date:	Until now



Pic. 4 During construction



Pic. 5 During construction



Pic. 6 During construction



Pic. 7 During construction



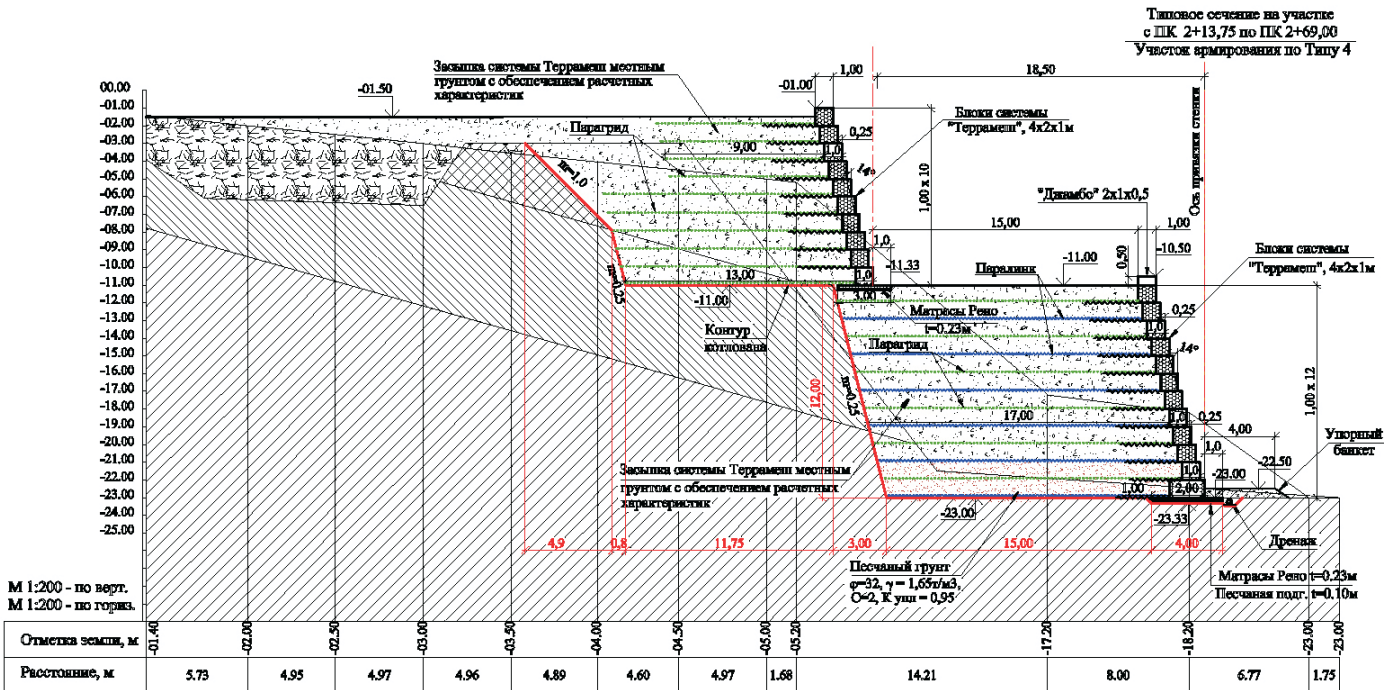
Pic. 8 During construction



Pic. 9 During construction



Pic. 10 At present



Pic. 11 Terramsh System cross section

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