

# Stabilization of Highway Embankment Over Soft Soils

**Rui Tomásio, Alexandre Pinto**

*JETsj – Geotecnia*



## Organização



Sociedade Portuguesa de Geotecnia



Comissão Portuguesa de Geotecnia nos Transportes



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Câmara Municipal  
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## Apoios



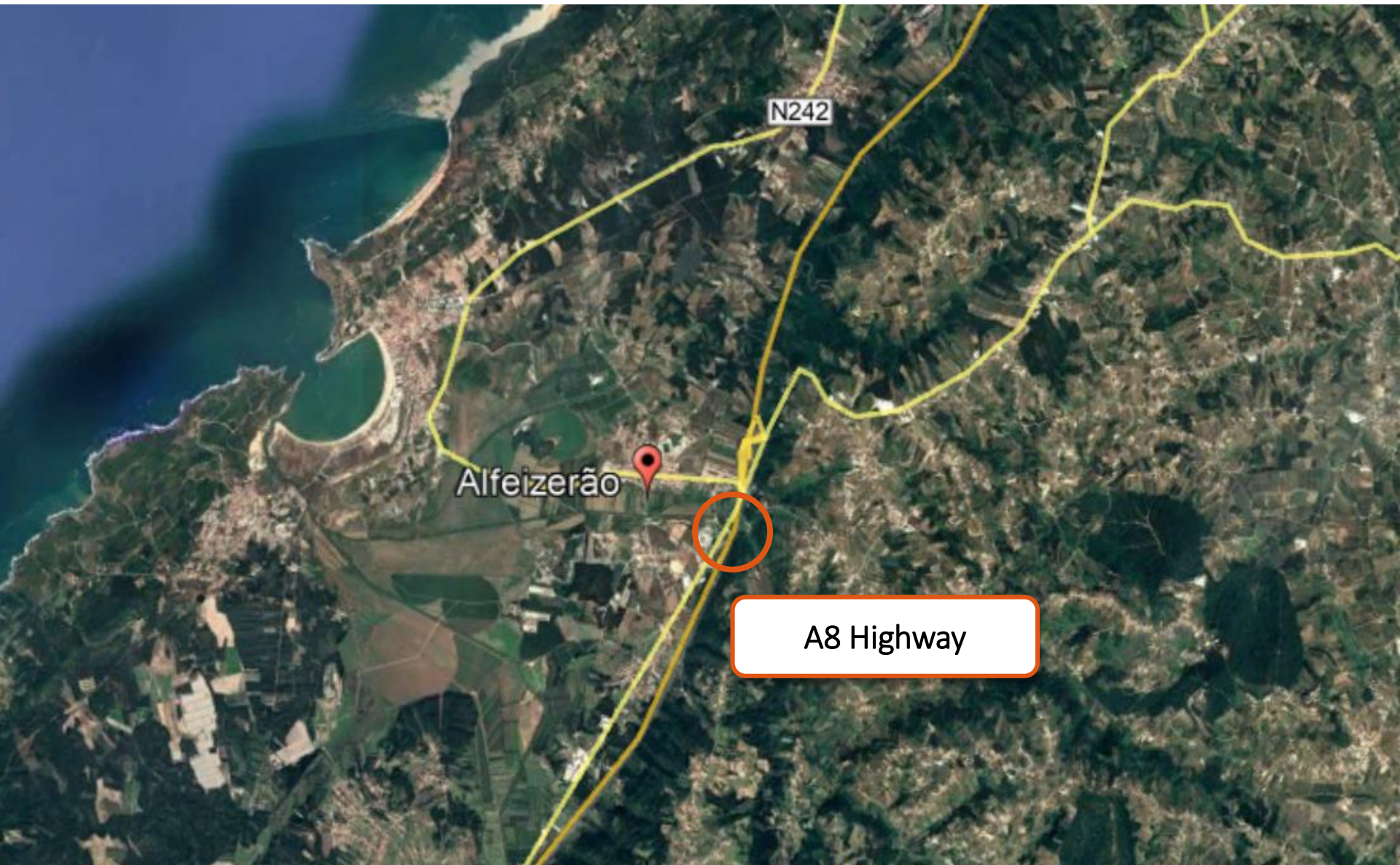
LABORATÓRIO NACIONAL  
DE ENGENHARIA CIVIL



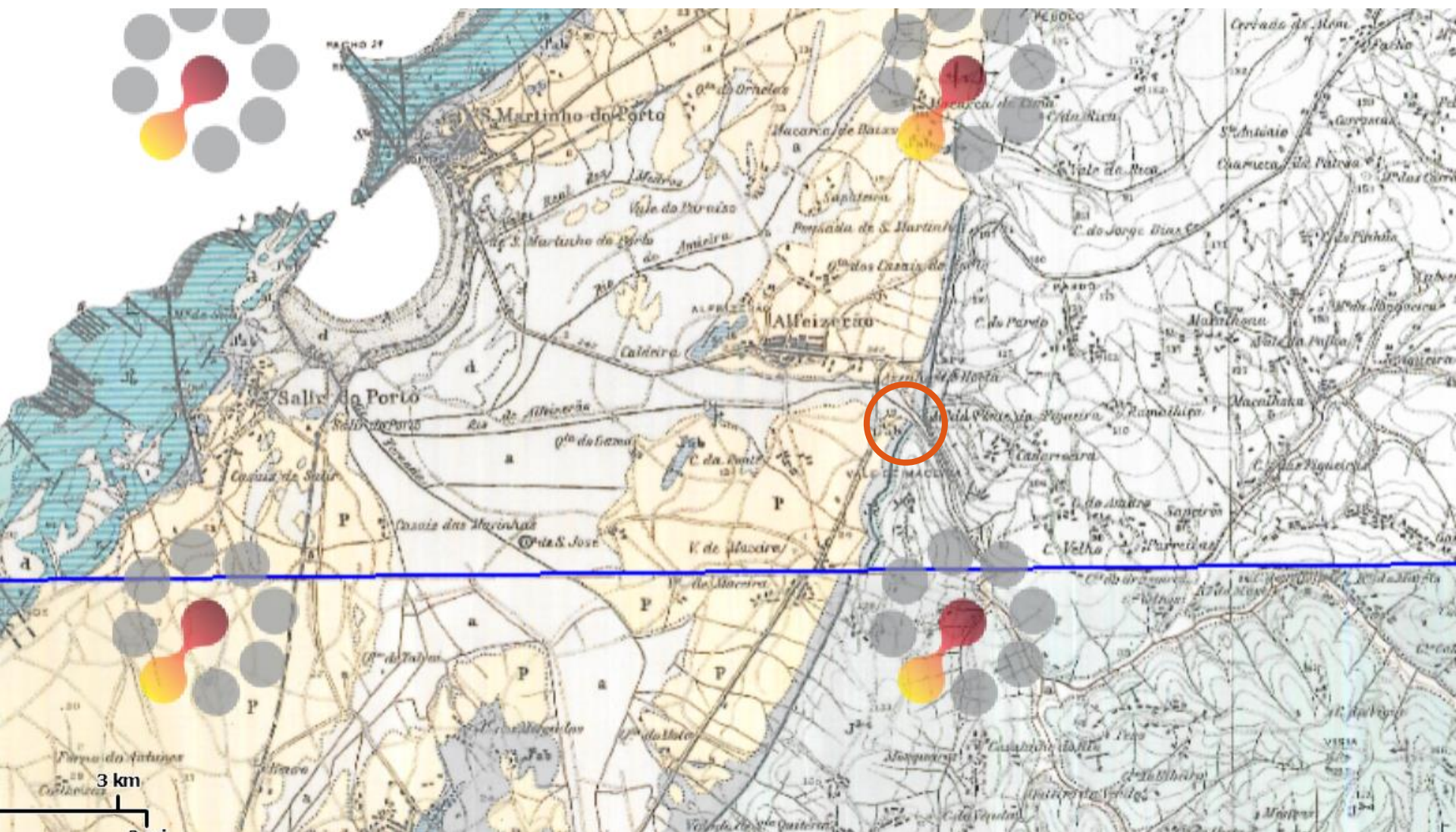
ORDEM  
DOS  
ENGENHEIROS

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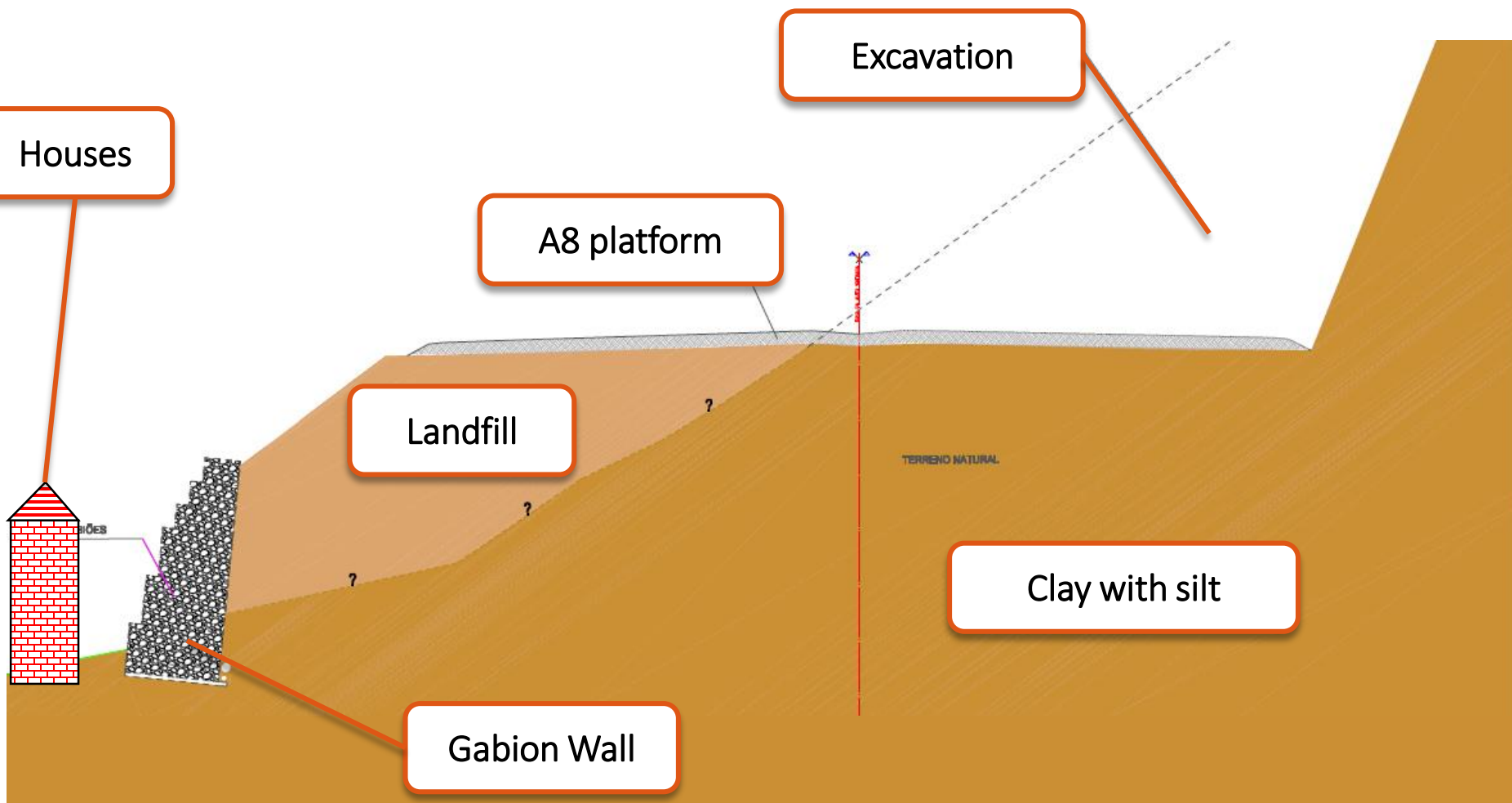








## Cross section after the construction of the motorway A8 platform





Gabion Wall

Houses

Cracks at platform



Slip surface

Landfill

Gabion Wall

Clay with silt

Soft Clay

Upwards movement  
close to gabion wall foundation









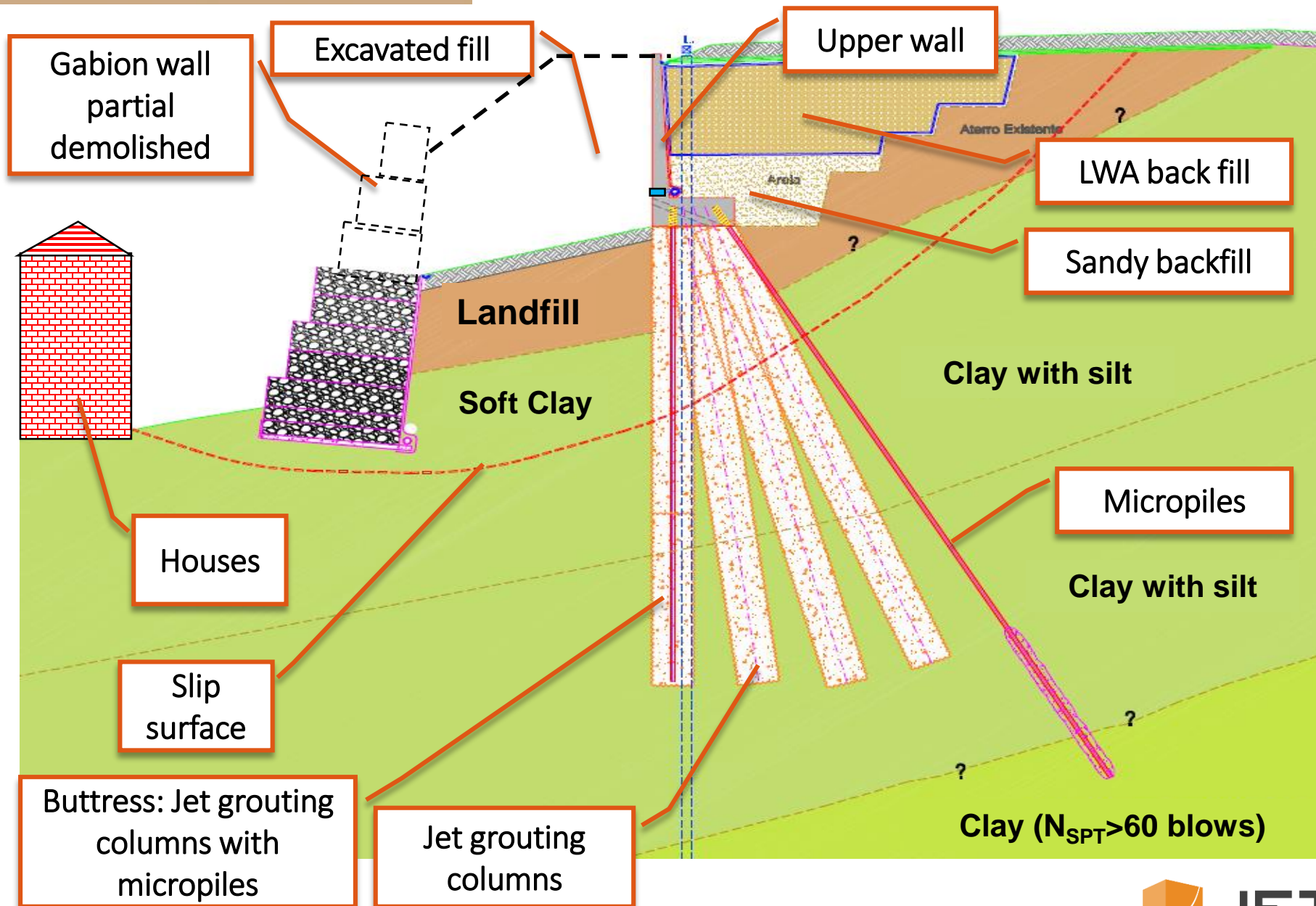


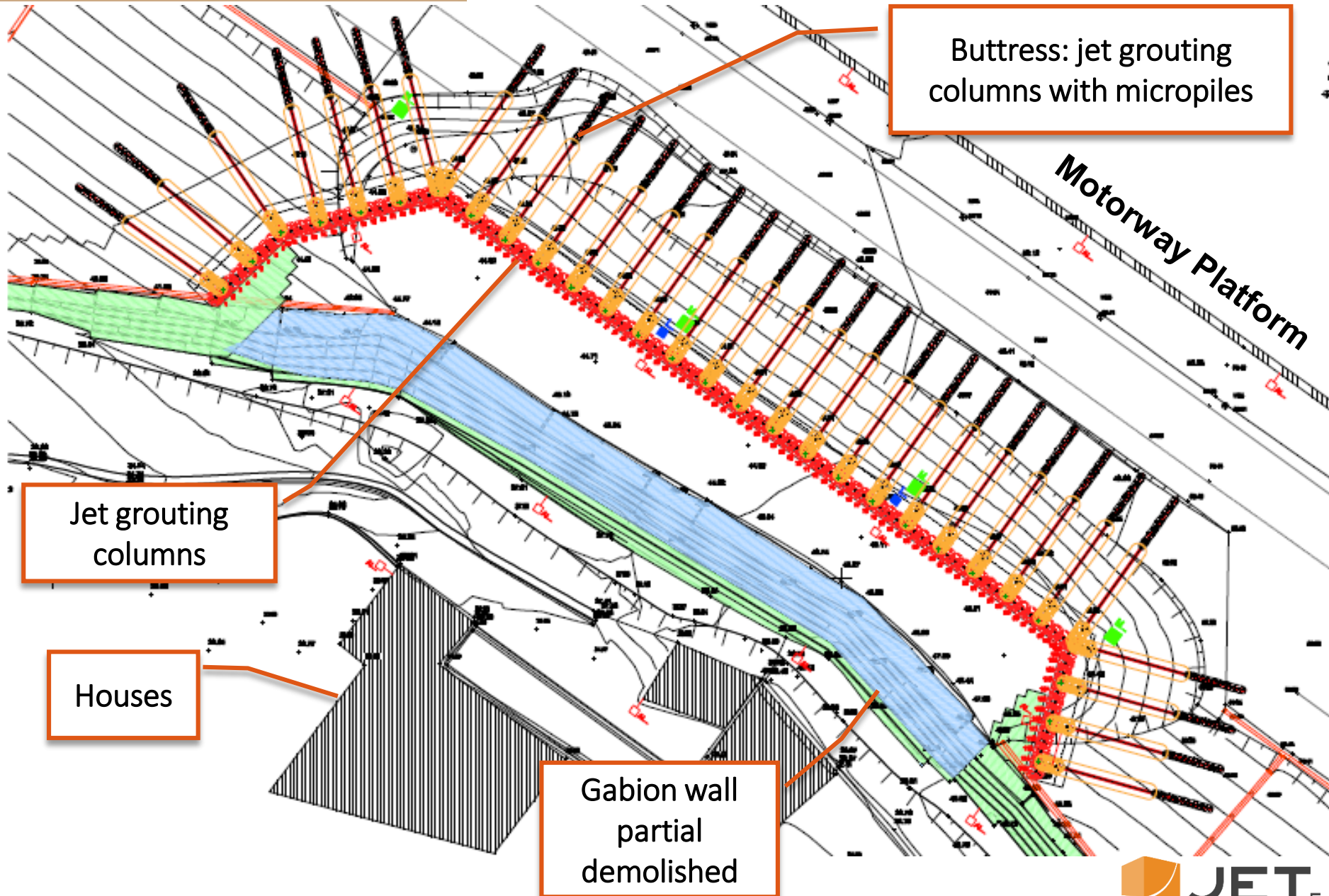




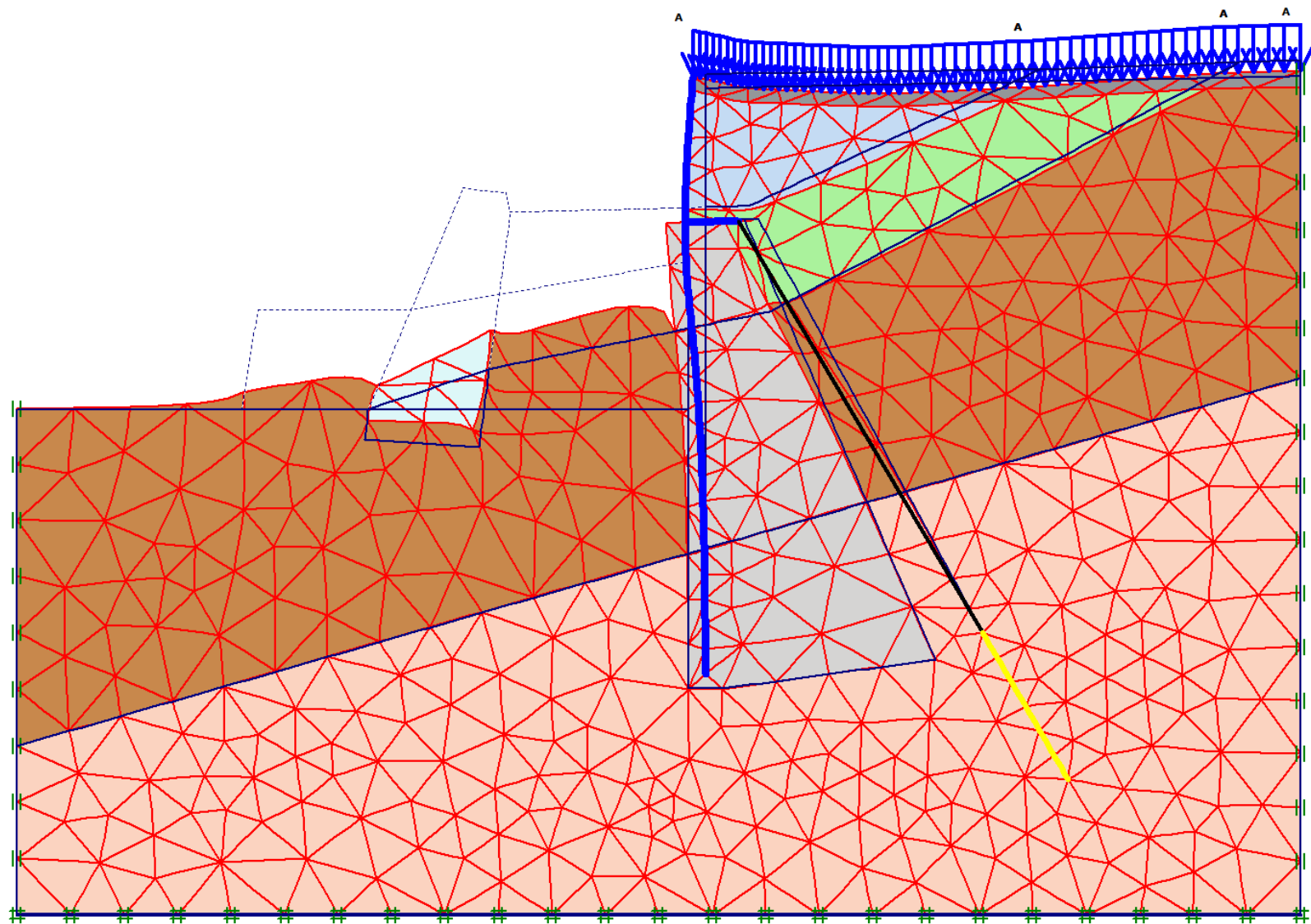




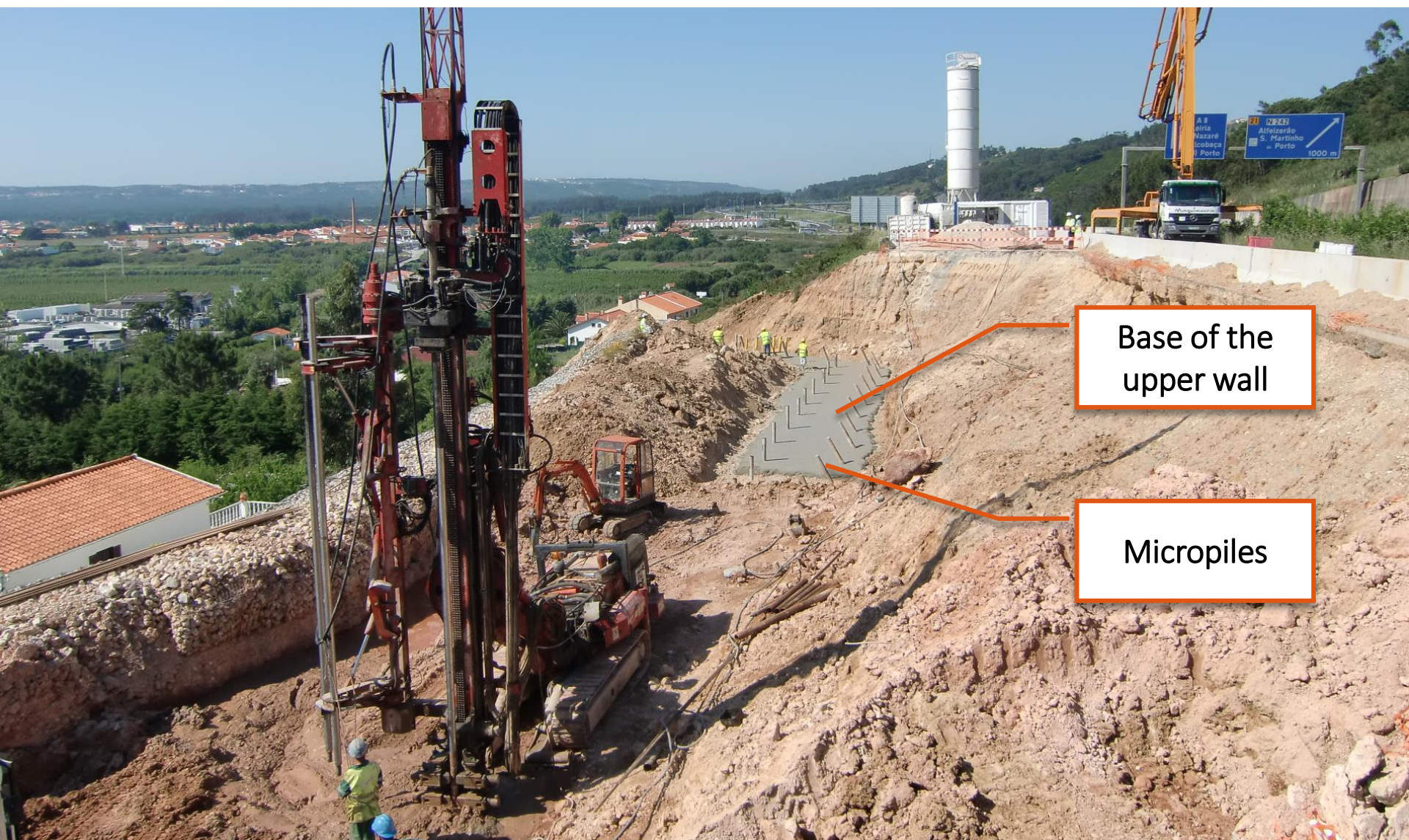












Base of the  
upper wall

Micropiles









Transfer of the sand  
from the big bags to  
the upper wall backfill













Jet grouting test  
columns

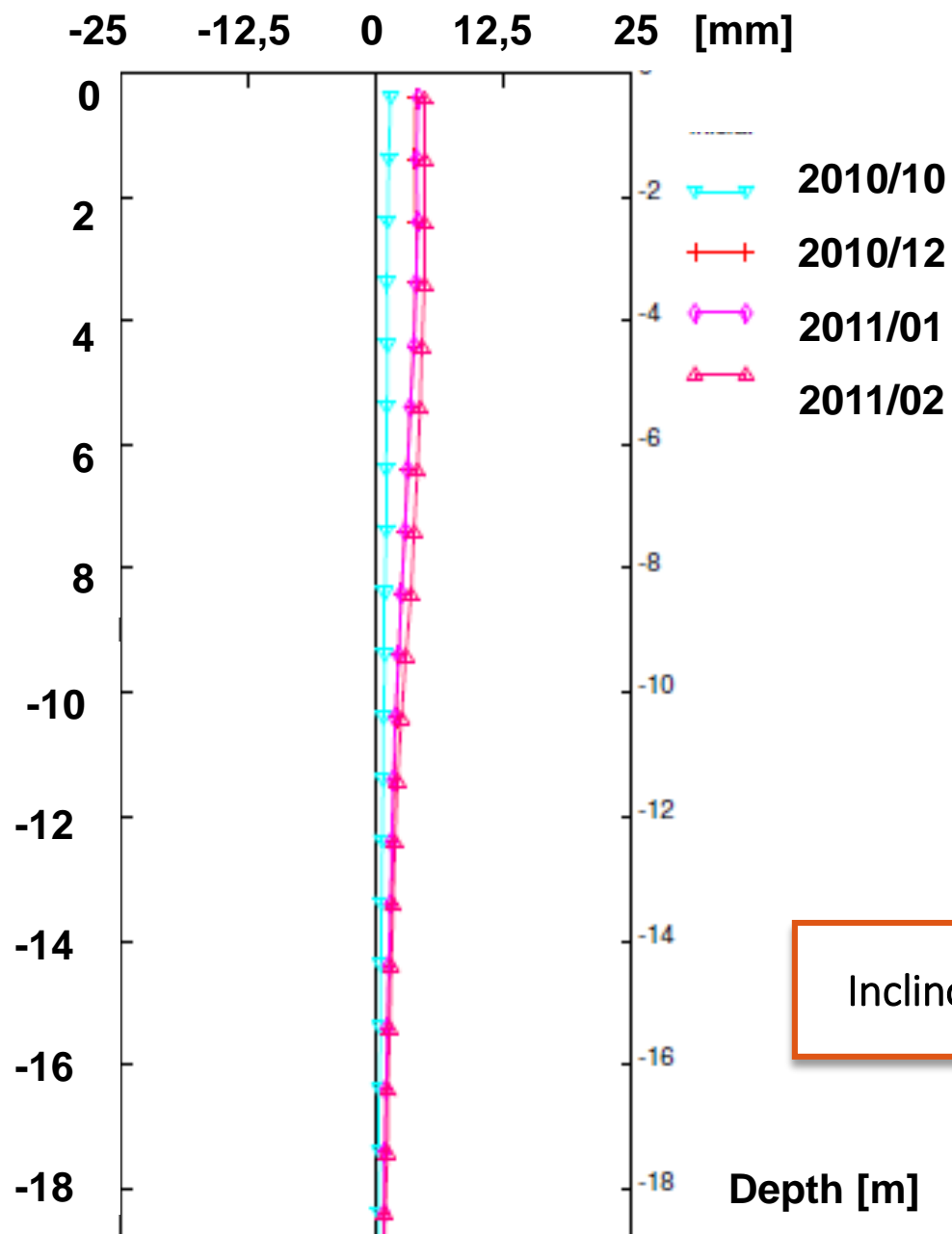


Gathering of jet grouting  
cores for UCS tests









Inclinometer





**OBRIGADO PELA  
ATENÇÃO**