

Construction design and technical assistance



A14
Sappanico
Tunnel

Year:
2011 – In progress

Client:
Autostrade per l'Italia Spa

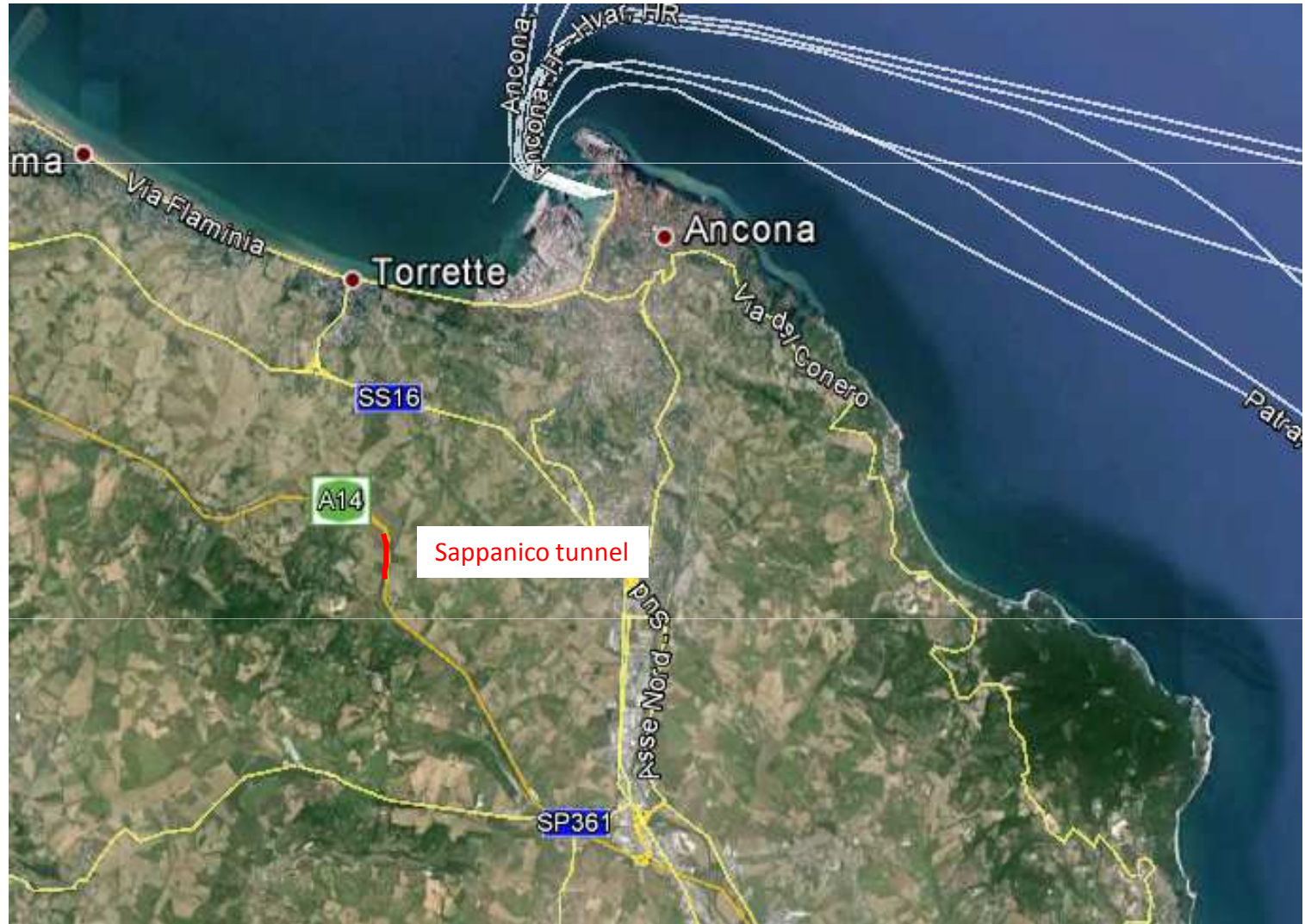
Contractor:
Ghella Spa

Total length:
Section 18 km
Tunnel Sappanico 0,89 km

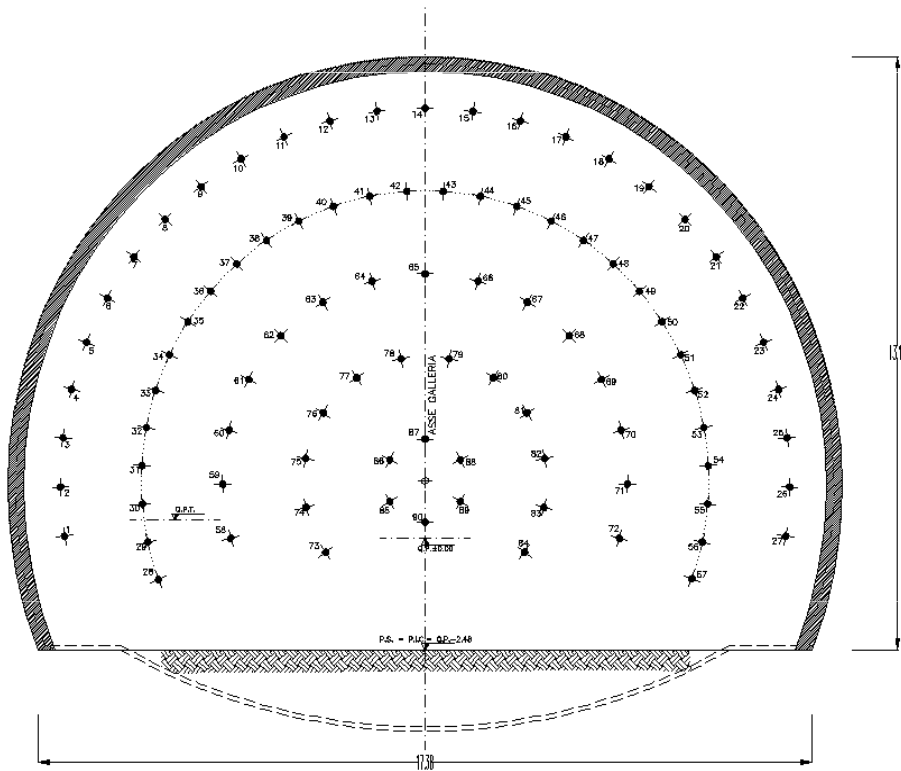
Works amount:
€ 258.000.000,00

Activities:

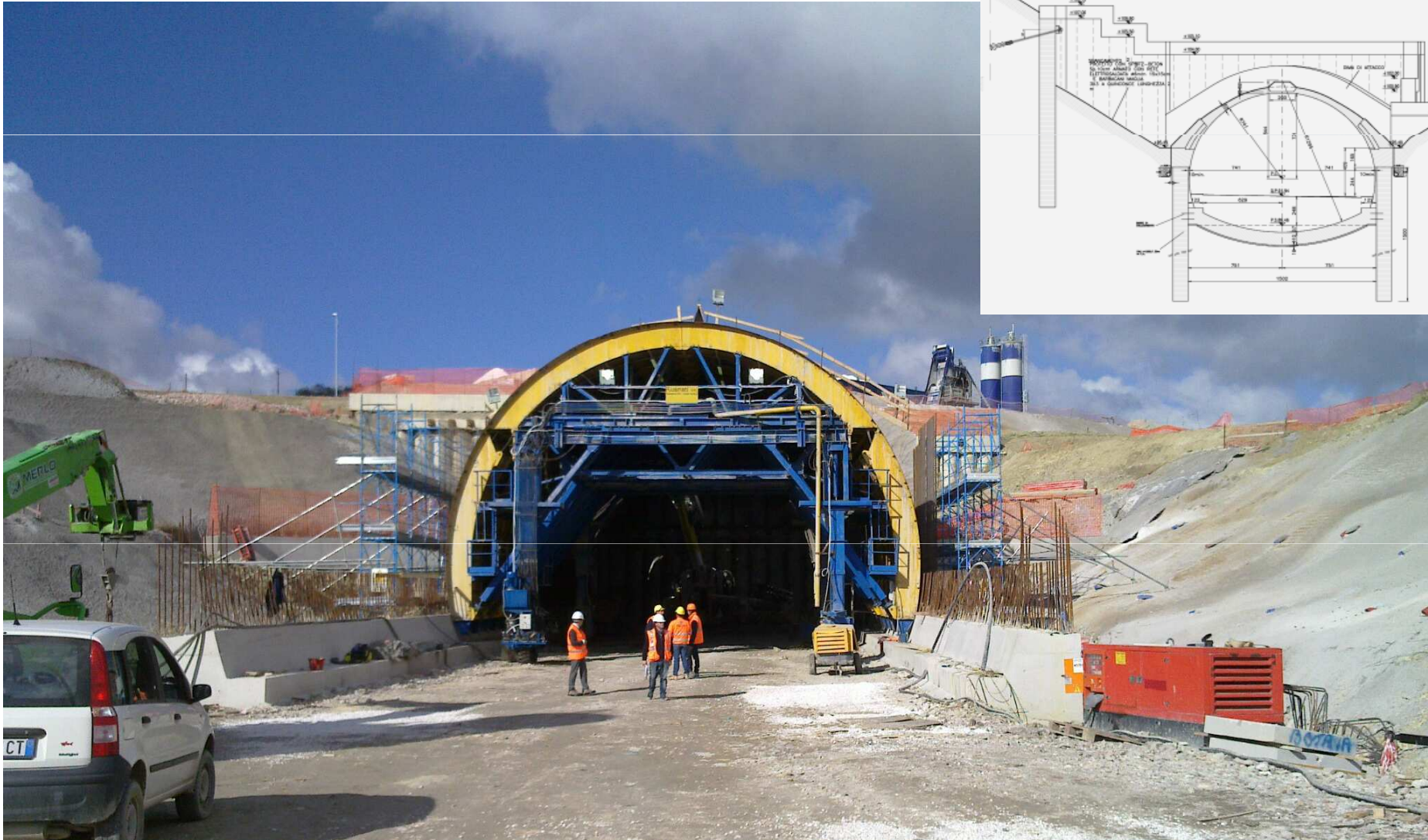
- Construction design



Tunnel portal



Tunnel portal



Retaining works

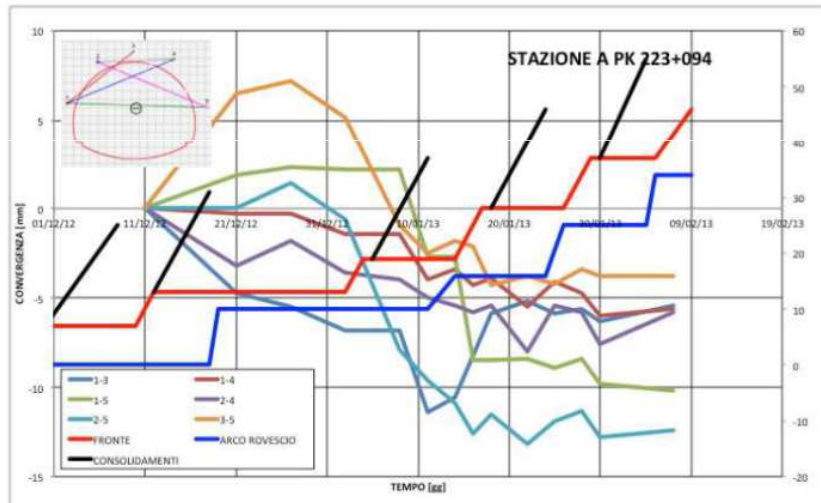


Excavation face

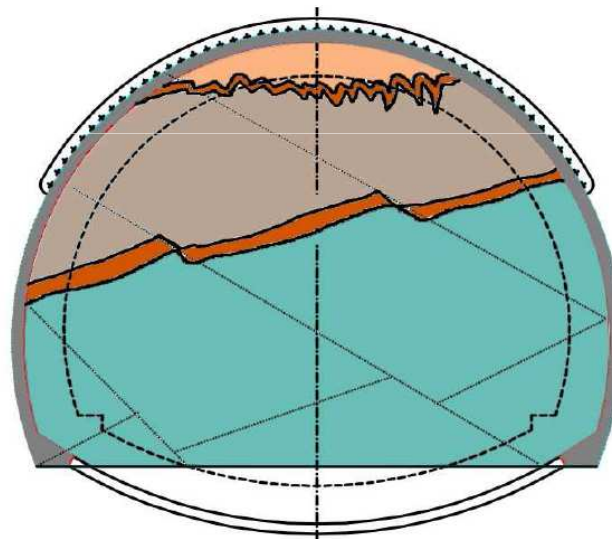
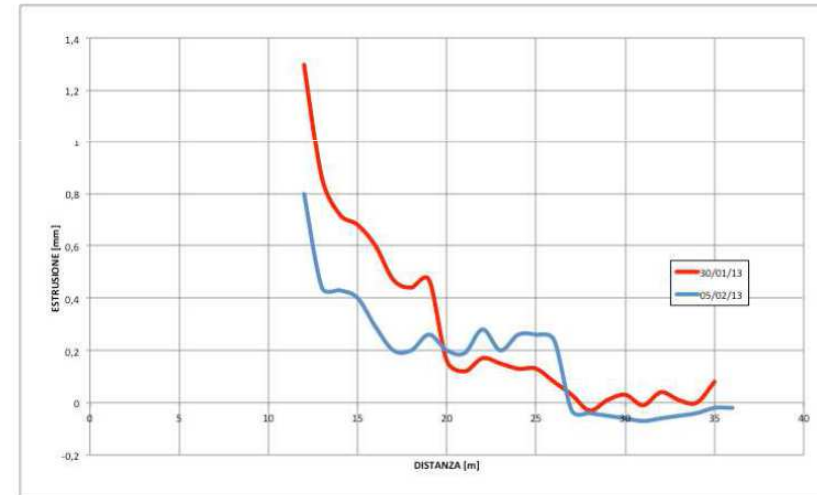


Monitoring system

Radial displacements



Excavation face



- 1-Hard clay
- 2-Altered brown clay
- 3-Altered dark brown clay
- 4-Soft clay