



# STATE ROAD SS 18 DIR FUTANI - CENTOLA SECTION Italy, 2001 – 2004

## PROJECT CHARACTERISTICS

**Works:** foundations for 5 viaducts, 1 tunnel, geotechnical and reinforced soil structures

**Purpose:** construction of an alternate route SS18 south of Naples

### Viaducts Dimensions:

- *LAMBRO*: L = 537 m, 11 piers H = 10 to 60 m
- *MASCALE*: L = 250 m, 5 piers H = 4 to 15 m
- *LA BONIFICA*: L = 58 m, 3 piers H = 15 to 27 m
- *SERRAPOTAMO*: L 628 m, 13 piers H = 5 to 60 m
- *MINGARDO*: L = 718 m, 15 piers H = 6 to 52 m

### Foundation materials:

- Shales and alluvia



## PROFESSIONAL SERVICES

Geotechnical Reports on foundations including evaluation of soil characteristics, computations for bearing capacity, settlements and foundation temporary supports. Reports on slope stability in seismic conditions. Construction drawings of shaft foundations, retaining walls, tunnel. Site visits and assistance to contractor during construction on specific topics.



### List of major works:

- 1) additional investigation
- 2) anchored pile wall
- 3) reinforced soil slope, L = 80 m, Hmax = 10 m
- 4) reinforced soil slope, L = 100 m, Hmax = 9 m
- 5) Monache Tunnel. L = 220 m, H = 9.4 m, width = 12.45 m
- 6) reinforced soil slope, L = 100 m, Hmax = 12 m
- 7) 2 anchored pile walls, L = 100 m, Hmax = 12 m
- 8) anchored pile walls, L = 100 m, Hmax = 12 m
- 9) anchored pile wall, L = 110 m H = 12.0 m
- 10) landslide stabilisation



**SEMBENELLI**

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