IZMIR RING ROAD / TURKEY
DESIGN OF BALCOVA - KARSIYAKA HIGHWAY TUNNELS

OWNER: GENERAL DIRECTORATE OF HIGHWAYS

PROJECT DESCRIPTION

THE IZMIR-RING ROAD PROJECT CONTAINS 5 TUNNELS. THE 3 "BALCOVA" TUNNELS AND THE 2 "KARSIYAKA" TUNNELS. THEIR TOTAL LENGTH IS 6,013 M AND THE CROSS SECTION IS 16,20 M WIDE AND 11,20 M HIGH. GEOLOGICAL CONDITIONS RANGE FROM SOFT GROUND TO ROCK.

SERVICES PROVIDED

- DETAILED DESIGN INCLUDING
  - ALIGNMENT OF MOTORWAY
  - EXCAVATION SEQUENCES
  - ROCK CLASSIFICATION
  - DRAINAGE- AND FIRE-FIGHTING SYSTEMS
  - FINAL LINING - REINFORCEMENT
  - LAYOUT OF PORTALS
  - DISTRIBUTION STRUCTURES
  - CUT & COVER SECTIONS
- GEO-TECHNICAL ENGINEERING
- STABILITY ANALYSIS
- DETAILED SPECIFICATIONS
- BILL OF QUANTITIES
- STRUCTURAL COMPUTATIONS
- PREPARATION OF CONTRACT DOCUMENTS

VOLUME OF TOTAL WORK: 6,200,000 EURO

TYPICAL CROSS SECTION
(Excavation dimension: Width = 16,20 m, Height = 11,20 m)

EXCAVATION TO FULL PROFILE