



NORTH MILAN BARRIER

A8/A9 Motorway - Italy, 1993

PROJECT CHARACTERISTICS

Works: tollgate, barrier yard, barrier service building, parking area, ramps and an 84 m span flyover to connect with the city belt motorway, emergency areas and exceptional loads routes.

Purpose: widening of existing tollgate and appurtenant facilities.

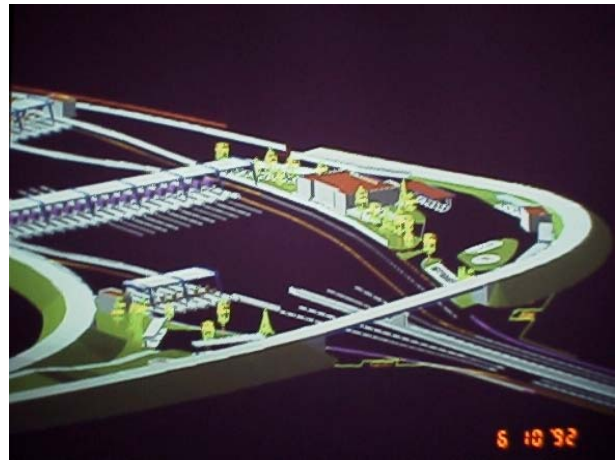
DIMENSIONS

- number of gates: 36
- overall area: 100 000 m²

PROFESSIONAL SERVICES PERFORMED

Preliminary design and lay out. Distribution of personnel, emergency and commercial traffic flows. Architectural design of tollgate. Study of parking, safety and of environmental features.

3D CAD model of the tollgate and computerized images of the gate layout and key-features for the environmental impact assessment and permitting procedure.



Improvements of the capacity of the motorway network have been undertaken in the industrial area North of Milan, where traffic is particularly heavy. The North Milan barrier on the A8/A9 motorways has been the subject of a study to define an improved lay out in view of greater efficiency, of better facilities for the employees and of improved public safety.



The North Milan barrier has been growing in steps always trying to cope with the steadily increasing traffic. The result was an unsatisfactory situation where further growth was impossible and operation quite unsafe.

The project produced a complete redesign of the toll station layout. The connecting ramps with the Milan city ring were displaced and redesigned as 2 lane road. This required a new, two-span flyover, 84 m long.

A new control and service building was studied. A total of 10 new tollgates were added to the 25 existing ones and arrangements were made for a special lane for exceptional loads.