

**Project sheet** 13422

**Discipline:** Gautrain Bridges: Roads & Bridge  
Infrastructure

**PROJECT NAME**  
GAUTRAIN BRIDGES

**CLIENT**  
BOMBELA  
(SUB-CONSULTANT FOR VELA-VKE)  
Contact: Mr BN Bintley

**VALUE OF WORKS**  
R 750 million

**DATE**  
September 2006



**PROJECT DESCRIPTION**

The project consisted of the design and detailing of the substructures for 7 of the viaducts on the southern line of Gautrain. These substructures included piles, pile caps, spread footings, piers, pier heads and perched abutments.

**SALIENT FEATURES**

For each of the 7 viaducts, the substructure was designed based on the geological conditions and geometry, in order to support the deck slabs of the structures. The design was based on the Euro code.

The piles for Pier 41 of Viaduct 15.3 had to be designed to extend through two levels of the covered parking at OR Tambo International Airport.

