

Client: ENZA Construction  
Value: R 300,000 (Fees)  
Services: Mechanical and wet services design  
Project Duration: 2015 – Ongoing

# Department of Infrastructure Development, Gauteng

## Gauteng Schools Programme: Detail Mechanical and Wet Services Design

### The Task

The Gauteng Schools Programme was launched in March 2011 to address significant backlogs in school facilities in Gauteng. Nurizon was appointed to undertake the mechanical and wet services designs for two new township primary schools, located in Ga-Rankuwa and Bram Fischerville (M. Kontane) – North of Pretoria and Soweto respectively. The schools have been labelled ‘Smart School Prototypes’ based on the use of sustainable ‘green’ building technologies.

### Design Services

The professional services appointment included the detail design of the school blocks’ internal services reticulation, and pump system designs for the fire, potable, greywater and irrigation water networks.

Stormwater runoff generated within each of school properties was designed to be collected and stored in an attenuation chamber, to be used as greywater for toilet flushing. The chamber’s structural design was included in the fee appointment.

### The Result

Detail design drawings for the construction of the wet services and pumping systems for the new primary schools were developed as part of the project deliverables.

