

ROADS & ASPHALT TECHNOLOGY

Building safer routes

Detailed planning, combined with an expert engineering approach, ensures that roads are constructed within budget and deliver over their intended lifespan.

Statistics show that the damage caused by overloading a 24 t truck by 10% has the equivalent effect that eighteen 24 t trucks would have on any particular road. This makes the maintenance and continuous monitoring of vehicle loading a critical requirement on any route, especially those experiencing high traffic volumes.

One such route is the R503/R505 between Coligny and Lichtenburg, in the North West. Knight Piésold was appointed

for the design and construction supervision of the repair and resurfacing component, as well as the construction of a weighbridge intersection with the R503. The contractor was Roadmac Surfacing.

From the start of the project, an extensive community liaison programme was run by Motsiri Events and Marketing. The company served as the public liaison consultants on behalf of the community, ensuring that the appropriate labour was sourced from the correct ward and region. This ensured that

In situ recycling of the sub-base layers

the project could be completed with minimal delays or disruptions. Community liaison meetings were held every month throughout the project and these proved invaluable.

The communities of both Lichtenburg and Coligny were extensively involved. A total of 22.3% of the contract expenditure was spent on targeted labour, youth, women and targeted enterprises.



Installation of a concrete culvert headwall footing



Application of asphalt riding surface