



# ALLOTT (NIGERIA) LTD

..... Consulting Engineers

## Ijebu-Ode Ile-Ife Truck Road South- West Nigeria.

**Client:** Federal Ministry of Works Lagos- Nigeria.  
**Location:** Osun- Ogun State - Nigeria.  
**Date:** 1977

The Nigerian Federal Ministry of Works commissioned Allott (Nigeria) Limited to undertake the location, survey and detailed design of a new trunk road to link the towns of Ijebu Ode Ile-Ife and Sekona which lie to the north of Lagos and south east of Ibadan. The route over which this road was to pass was through thick tropical rain forest and sparsely populated. Access was difficult and the existing dirt roads were impassable in the rainy season.

A suitable route was located from a study of aerial photography and a ground reconnaissance which was followed by a traverse survey. The detailed design of the road's alignment was carried out using the latest computer-aided techniques, further to the results of the topographical survey. Other field work included a hydrological survey and a borehole survey. On completion of the design, the centre line of the new road was staked out by the field team.

The proposed road had a two lane carriageway with bituminous surfacing, a crushed stone base and a laterite sub-base. The total length was 140km and there were a total of 13 bridges. The two major structures were the 150m long 6-span bridge over the River Oshun and the 75m long 3-span bridge over the River Shasha. These have in-situ reinforced concrete voided decks supported on reinforced concrete piers. The location of sources of suitable road construction materials was an important part of the design.

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