

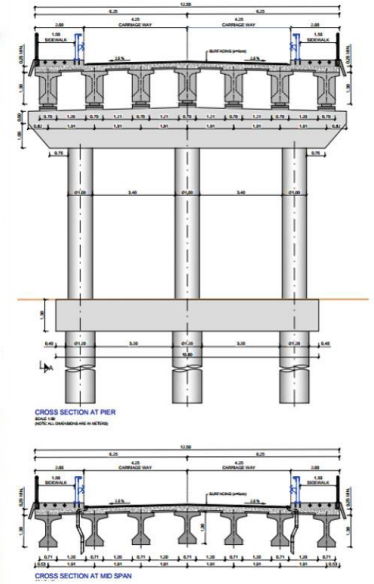


RN11 Bridges & Road: Bolgatanga-Bawku-Pulmakom

Bolgatanga, Ghana / 2016-2017

Structural type
Characteristics
Client
Scope

Prefabricated slab with double T-beams of reinforced concrete
Road geometric design, drainage and bridge design
Queiroz Galvao
detailed design and construction support



The project involves the geometric redesign of the national route N11 (a segment of about 107 km from Bolgatanga to Polmakom of the road), the widening of existing drainage structures, the creation of new ones and the demolition and replacement of 3 existing bridges by new ones made of RC precast I-beams.

The 3 new structures were designed using the same type of beams to optimise production costs:

- 1) KULAA bridge: 5 spans with 16.70 m span length. Total length of the structure is 82.75 m. It supports a double carriageway and two lanes for each one. The total width is 22.60 m.
- 2) RED VOLTA bridge: 5 spans with 16.70 m span length. Total length of the structure is 82.75 m. It supports a double carriageway. The total width is 12.50 m.
- 3) RED VOLTA bridge: 11 spans with 16.70 m span length. Total length of the structure is 182.95 m. It supports a double carriageway. The total width is 12.50 m



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