

CONSTRUCTION OF GRADE SEPARATED JUNCTIONS AT PONT FER/ JUMBO/ DOWLUT ROUNDABOUTS

I. Project Details

Employer: Road Development Authority

Engineer: Korea Expressway Corporation

Contractor: Transinvest-GCC-Bouygues TP- VSLi Junction Pont Fer & A1-M1 Link Rd JV Ltd

Contract Value: MUR 4.26 Billion including VAT (A1-M1 Bridge included)

II. Project Background

In order to address the high levels of congestion currently experienced at the Pont Fer, Jumbo and Dowlut roundabouts at Phoenix, it is required that grade separated junctions be constructed at all 3 locations. The project will reduce traffic congestion by minimizing traffic volume using the roundabouts under the Pont Fer viaduct and providing an uninterrupted traffic flow by closing the Dowlut Roundabout.

III. Project Scope

3 viaducts at Pont Fer, Jumbo and Dowlut Roundabouts are being constructed and a new link road will be provided to connect Phoenix - Beaux Songes Road B130 and the Sodnac Road B94.

a) Pont Fer Roundabout & Viaduct

- In order to improve the mobility of M1 motorway and relieve the traffic congestion at the Pont Fer roundabout, a 315 m long new viaduct will be constructed over the existing motorway.
- By realigning the existing access road to the industrial zone, the risk of traffic accident when entering or exiting the industrial zone is expected to be considerably reduced.
- It is designed that the intersection will be controlled by a traffic signal so as to maximise the capacity of the roundabout during peak hours.



Plate 1: Grade Separated Junction at Pont Fer

b) Jumbo Intersection and Sodnac Link Road

- A new viaduct of 180 m will be placed along B63 road to provide vehicles heading for Port Louis with higher mobility. This viaduct will span the Jumbo intersection and then end before the Pont Fer roundabout to merge into the M1 motorway.
- The existing roundabout will be converted into a signalised intersection with three legs (T-shape) to ensure better integration with the Metro Express.
- Sodnac Link Road, which is directly connected with the Jumbo Roundabout, will be rearranged to reduce the congestion at the Jumbo intersection.



Plate 2: Grade Separated Junction at Jumbo

c) Dowlut Ramp

- In order to achieve the primary goal of the Project, which is to maximise the mobility of M1 motorway, Dowlut roundabout will be graded to improve the fluidity of traffic from the south to the north and resolve the chronic traffic congestion resulting from the close proximity between Pont Fer and Dowlut roundabouts.
- Instead of roundabout, a new ramp (Dowlut Ramp 1) with a length of 28 m will be constructed to keep the connectivity between A10 road and the southbound M1 motorway. In the meantime, another ramp (Dowlut Ramp 2) will diverge from the Dowlut Ramp 1 to enable vehicles from the north to take the M1 motorway towards the south.



Plate 3: Grade Separated Junction at Dowlut