

Glilot East Interchange - Fast Lanes Section

E

Tel Aviv, Israel

Project Description

The Fast Lanes project will add special lanes to the Ayalon Highway for public transportation, High Occupancy Vehicles (HOV) and toll to alleviate traffic congestion in the Tel Aviv metropolitan area. Section E includes the Glilot East Interchange and two cast-in-place segmental bridges, BR-01 and BR-02. Bridge BR-01 has nine spans, and is a constant depth box girder of 3.5 meters deep, 9.46 m wide deck, and span length ranging from 52 to 81.6 meters. Bridge BR-01 has a variable horizontal curvature, with a minimum radius of 319 meters. Bridge BR-02 has ten spans, seven of which have a constant depth of 3.4 meters and deck width of 9.46 meters for spans ranging from 46 to 72 meters. Three spans are variable depth ranging from 5.6 meters at the pier to 2.7 meters at midspan for a 112-meter crossing of rail tracks. Bridge BR-02 has a variable horizontal curvature, with a minimum radius of 349 meters. Both bridges will be cast-in-place in balanced cantilever with form travelers.

Owner

Ayalon Highway Company

Contractor

Ashtrom Construction / Drachim Construction & Infrastructure

Designer

GASH

Our Role

McNary Bergeron, working with Ashtrom Construction, is optimizing the superstructure design with alternate segment lengths, post-tensioning and reinforcing to meet the contractor's means and methods, as well as preferences. McNary Bergeron is also providing the construction analysis, integrated segment shop drawings, geometry control and erection manuals for use during construction.

Total Contract Value

N/A

Timeline

2020 to 2022

Construction Method and Specifications

Cast-in-place, segmental, balanced-cantilever

