

M50 Upgrade around Dublin

CLIENT: M50 Construction JV

LOCATION: Ireland

YEAR OF COMPLETION: 2009

The M50 Upgrade scheme around Dublin was one of the largest road schemes to go under construction in Ireland.

We undertook detailed design of a 2-span composite box girder bridge deck. The geometry was extremely complex as the structures was location on a highway transition curve with varying cross fall. Our design included substantial plan bracing of the boxes for the temporary condition before construction of the concrete slab. In addition, an innovative full depth precast concrete deck system was used to minimise the lane occupation time needed for construction of the bridge. By maximising off-site construction techniques, we were able to minimise the time taken to build this structure. Given the very tight working space adjacent to live traffic our "off-site" design solution had significant advantages for our contractor client.



KEY FACTS:

- Detailed design
- Steel box girder deck
- Precast deck units

