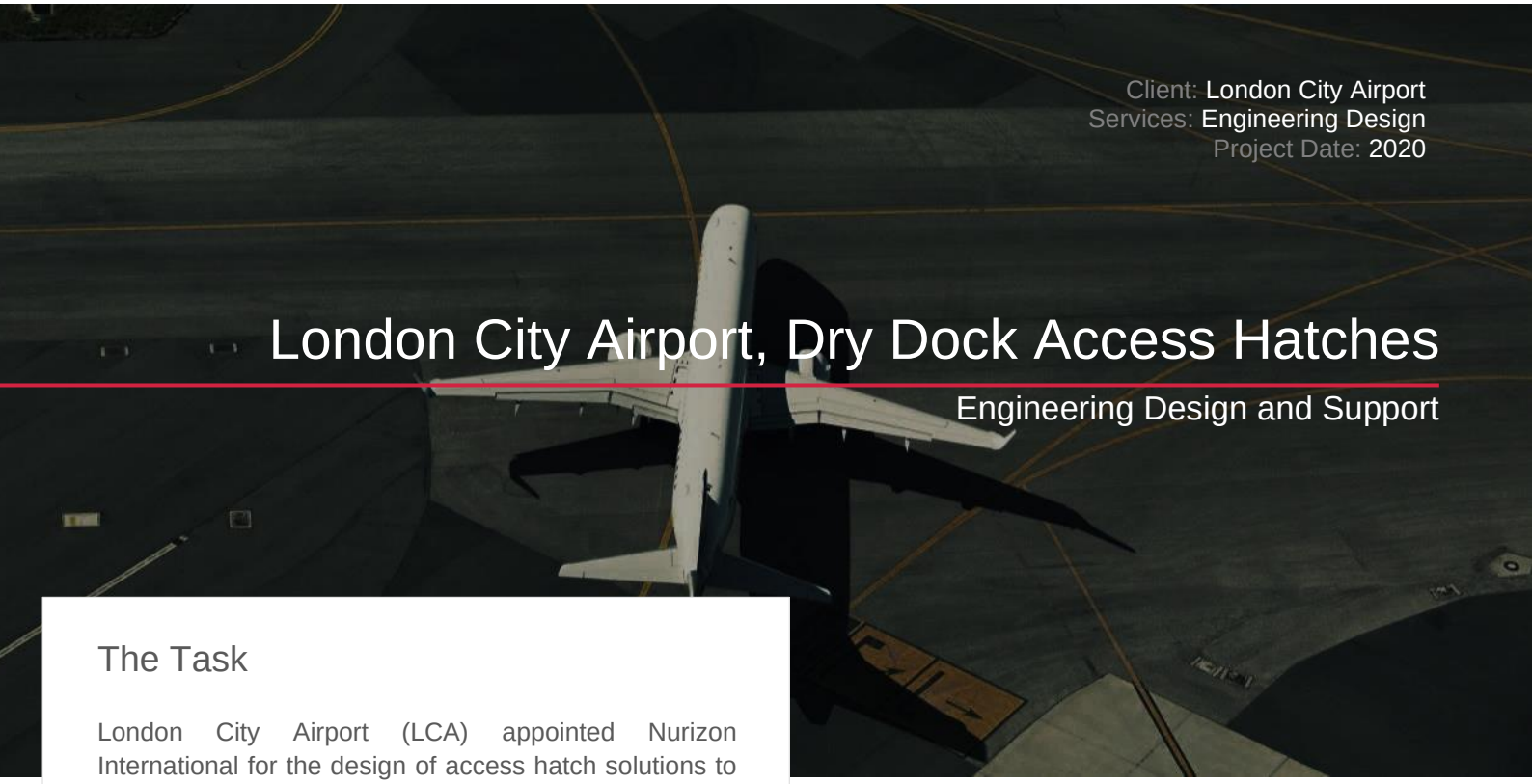


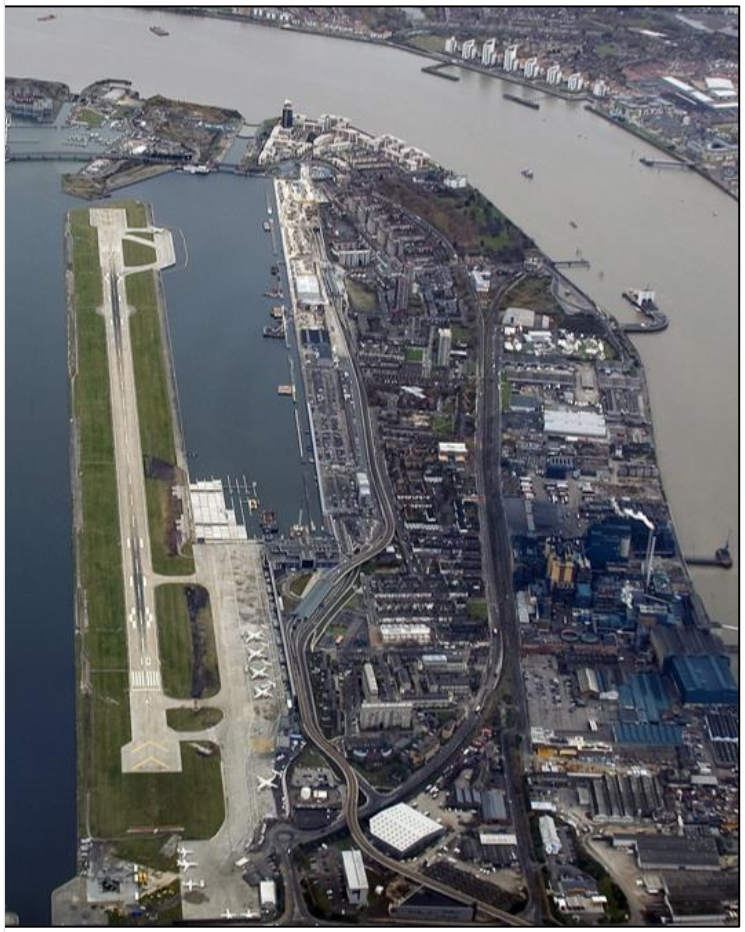
Client: London City Airport
Services: Engineering Design
Project Date: 2020

London City Airport, Dry Dock Access Hatches

Engineering Design and Support

The Task

London City Airport (LCA) appointed Nurizon International for the design of access hatch solutions to be installed within the slab of the dry dock (over water) and forms part of the apron stands. The solution required by LCA was to provide three (3) access hatches at locations that minimize the impact to the airport operations. The structural design was required to accommodate the current aircraft loadings and future heavier aircraft loading.



Design Services

Engineering design and support in terms of:

- The requirements from LCA were to have 3 access hatches approximately 900mm x 2100mm at locations that avoid direct aircraft parking movements. The apron is approximately 250m in length and 40m in width. The slab is supported by steel girders, 762x267x173 universal beams having lateral bracing throughout. The steel girders are supported on 800mm diameter reinforced concrete columns.
- The reinforced concrete deck slab is 250mm thick and connected to the steel girders on the top flange with shear connectors which forms a composite structural connection.

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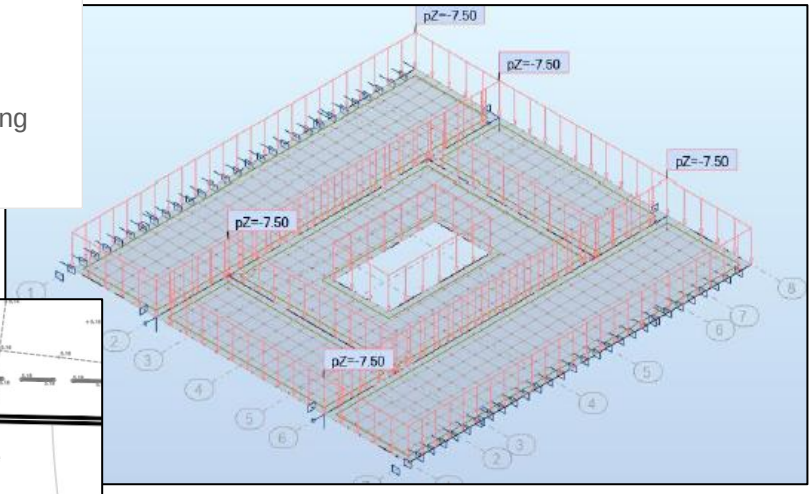
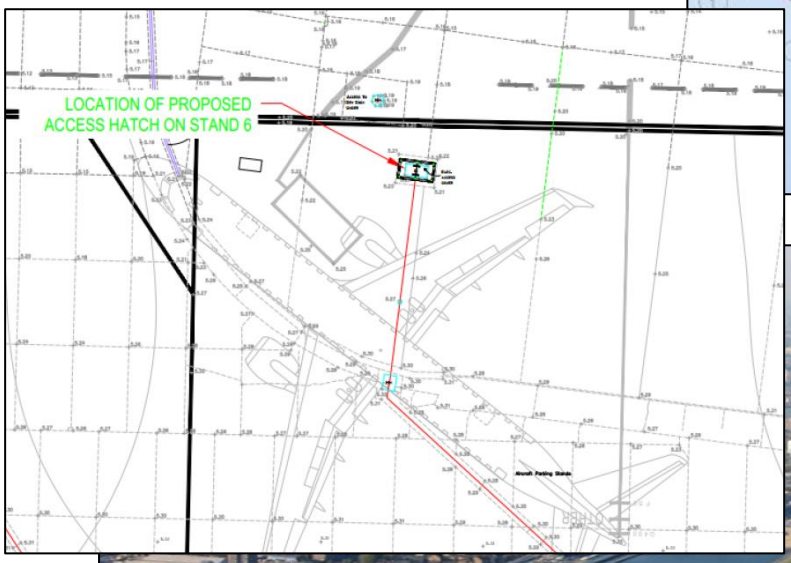
The Result

An interesting and unique project, incorporating structural design elements in the Airport environment.





London City Airport, Dry Dock Access Hatches

Engineering Design and Support

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