



CASE STUDY

FREMANTLE TRAFFIC BRIDGE SURVEY

FREMANTLE, WESTERN AUSTRALIA

PROJECT SCOPE

THE SCOPE OF WORKS INCLUDED SURVEYING OF THE FREMANTLE BRIDGE TO PRODUCE A 3D MODEL IN CAD, REVIT, AND A 3D VIRTUAL REALITY (VR) MODEL TO PRESERVE THE EXISTING CONDITION OF THE BRIDGE PRIOR TO POTENTIAL DECOMMISSIONING OF THE STRUCTURE.

Land Surveys provided a methodology which included a hybrid approach to capture required survey data using different technology and surveying capabilities available within the business including, conventional survey, terrestrial and mobile laser scanning, UAV survey and Revit modelling.

Extensive planning ensured that there were no delays on deliverables and no risks for the client on the design component. By delivering future ready survey data we managed to meet all project requirements in terms of deliverables, and provided accessible cloud based survey deliverable solutions which gave the flexibility to the client to share

all survey data with their internal teams and external stakeholders.

The success of the project can be attributed to a positive and collaborative team, good communication between stakeholders to accomplish and deliver multi-purpose and future ready survey data including aerial imagery and laser scanning.

Land Surveys successfully extracted a Hi-Res photorealistic mesh from UAV survey data and generated a detailed Revit model of the bridge which resulted in the delivery of a usable VR model.

CLIENT

Main Roads WA

PROJECT DURATION

December 2019 to February 2020

PROJECT VALUE

100K

LOCATION

Fremantle, Western Australia