

## 1. INTRODUCTION

### 1.1 Background

This geotechnical engineering report presents the results of a geotechnical investigation undertaken by Geotechnical Consultants Australia Pty Ltd (GCA) for a proposed development at No. 21 Whistler Street Manly NSW 2095 (the site). The investigation was commissioned by Mr. Mark Guerreiro of J & CG Con NSW Pty Ltd (the client) and was carried out on the 11<sup>th</sup> November 2021.

The purpose of the investigation was to assess the subsurface conditions over the site at the selected boreholes and testing locations (where accessible and feasible) and provide necessary recommendations from a geotechnical perspective for the proposed development.

The findings presented in this report are based on our subsurface investigation, laboratory testing results and our experience with subsurface conditions in the area and local region. This report presents our assessment of the geotechnical conditions and has been prepared to provide preliminary geotechnical advice and recommendations to assist in the preparation of designs and construction of the ground structures for the proposed development.

For your review, **Appendix A** contains a document prepared by GCA entitled "Important Information About Your Geotechnical Report", which summarises the general limitations, responsibilities and use of geotechnical engineering reports.

### 1.2 Proposed Development

Information provided by the client indicates the proposed development comprises demolition of existing infrastructures onsite, followed by construction of a new multi-unit residential development, overlying a basement level including a car turntable.

The Finished Floor Levels (FFL)s of the proposed developments basement and ground floor levels are set to be at Reduced Levels (RL)s of:

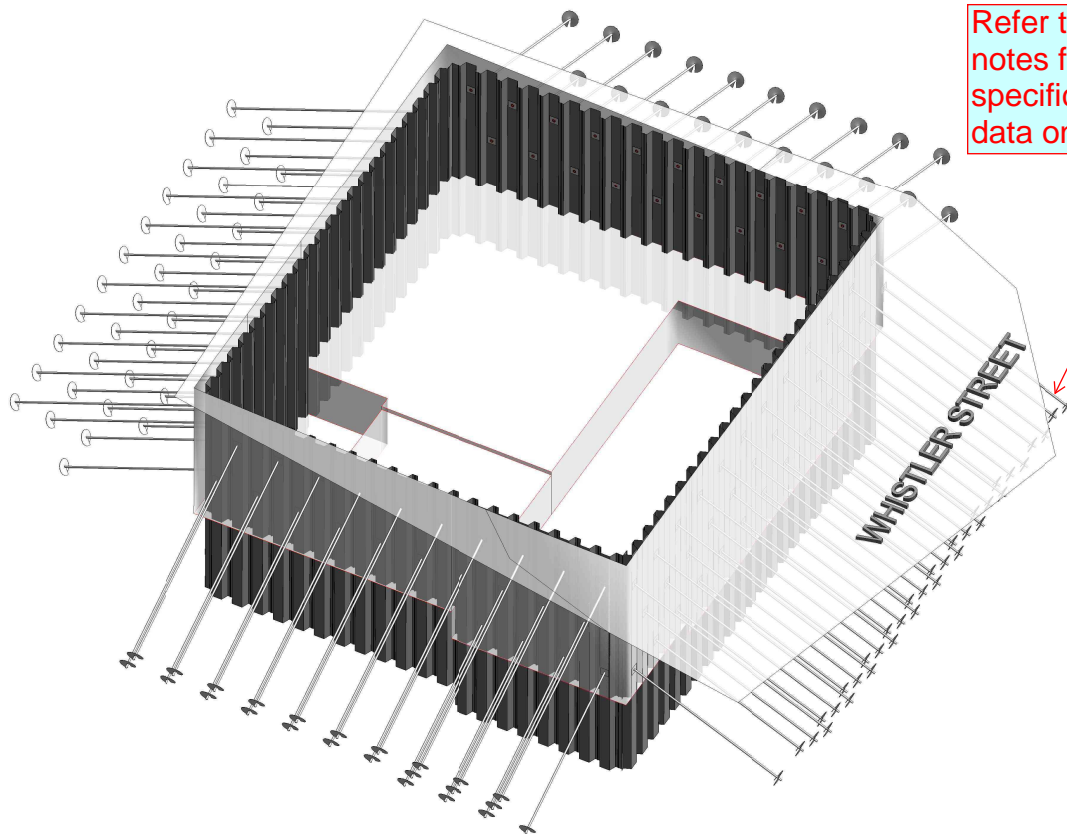
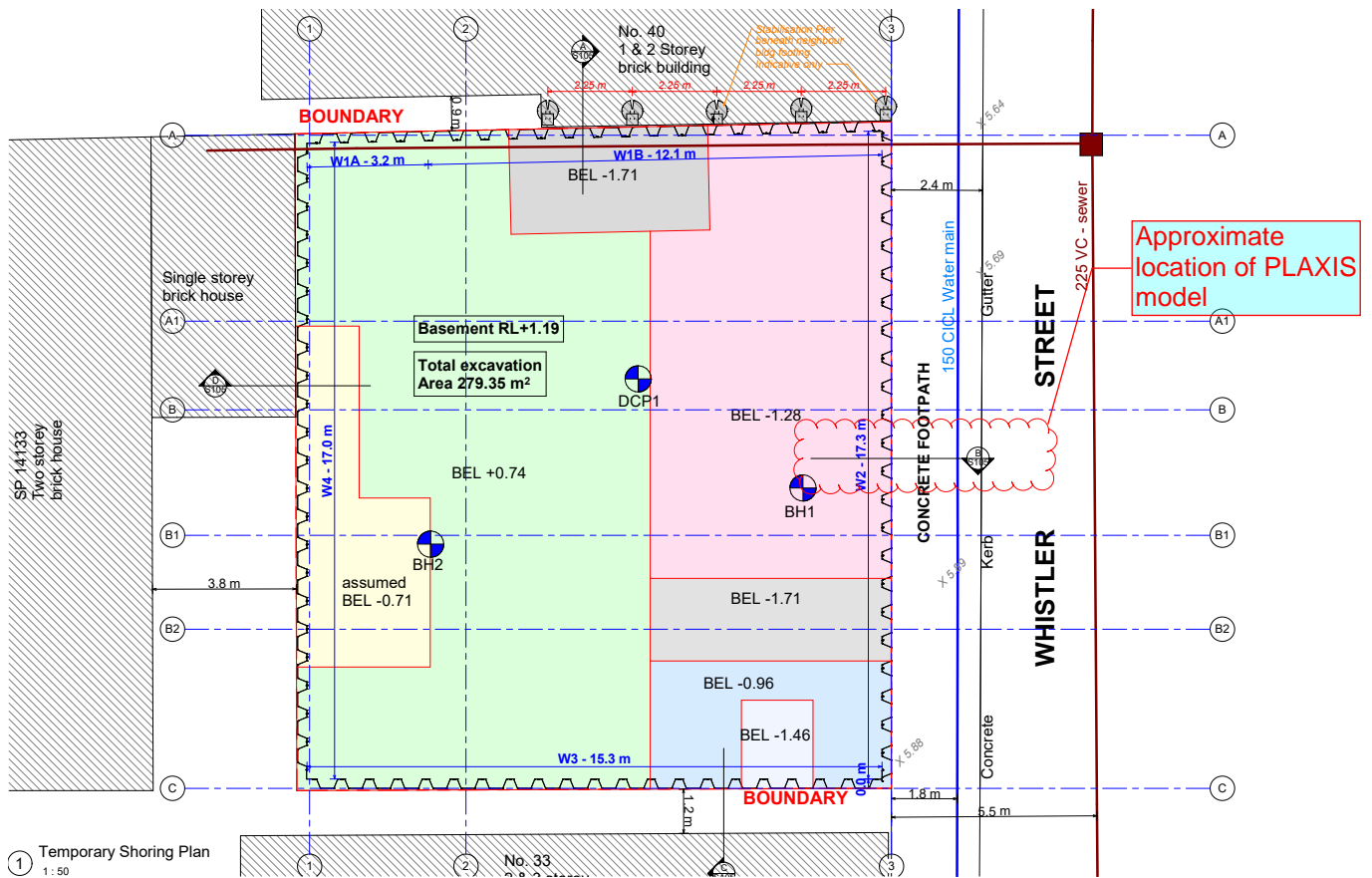
- Basement level: RL1.190m Australian Height Datum (AHD).
- Ground floor level: RL5.840m AHD.

Based on this information and the existing site levels and topography, maximum excavation depths varying from approximately 4.7m to 7.3m are expected to be required for construction of the proposed development. Locally deeper excavations for the lift shafts, and building footings and service trenches are also anticipated to be required as part of the planned development.

It should be noted that excavation depths are expected to vary across the site and are inferred off the FFLs shown on the architectural drawings and existing levels on the site survey plan, referenced in Section 1.3 below.







Refer to the MESO anchor notes for detailed specifications and technical data on the anchors.

## TEMPORARY SHORING PLAN AND 3D VIEW

### Temporary Shoring Plan

#### REFERENCE:

<div></div> <div>METAUS PTY LTD    ACN: 644 319 595 18 Chemside St, Highgate Hill QLD 4101</div>	<div></div> <div>MESO SOLUTIONS PTY LTD    ABN: 28 611 157 478 53 General Holmes Drive NSW 2016 www.mesos.com.au 1300 10 MESO (6376)</div>	Project	Job ID	Sheet No.
		21 Whistler Street Manly	21-140	S103
		Sheet Subject	Designed by	Drawn by
		Temporary Shoring Plan	SG	SG