

MENDI CONSTRUCTIONS PTY LTD

The Village Stage 11 – MC360

LEVEL 1 TESTING AND INSPECTION REPORT

REPORT NO: TS21359 - L1R

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ses

SOIL AGGREGATE &
CONCRETE TESTING

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INTRODUCTION

Soil Engineering Services (SES) was engaged by Mendi Constructions to provide Level 1 Supervision and Testing for The Village Stage 11 – MC360. All inspection and testing was conducted in accordance with A.S. 3798-2007 “Guidelines on earthworks for commercial and residential developments”.

Project specifications and relevant documentation was provided to SES by the client. The Specification was used in conjunction with A.S. 3798-2007 to determine testing frequencies for controlled fill placement on the site.

SES commenced Level one supervision on the 5th of December 2018. As of this date stripping and clearing of vegetation and topsoil had been completed.

INSPECTION AND TESTING SUMMARY

Following the stripping of topsoil and vegetation, proof rolling was carried out to identify any soft/unsuitable areas prior to controlled fill being placed. Proof rolling was carried out on the foundation level using a water truck (approximately 24t GVM). Areas of unsuitable foundation were identified and excavated prior to controlled fill placement. Foundation surfaces were proof rolled prior to placement of controlled fill material.

The controlled fill was placed in layers of approximately 250 mm (loose). Moisture conditioning of the controlled fill material was conducted as necessary prior to compaction. Compaction was carried out utilising a twenty-one-ton compactor and eighteen ton vibrating Sheep’s foot roller.

* Optimum moisture content of the controlled fill materials was used as a guide for field placement moisture content, however optimum moisture content for compaction under field conditions will vary depending on material type, equipment used and the nature of the foundation.

In general, the heavier the compaction equipment the lower the ‘field optimum moisture content’ which can vary considerably from the ‘laboratory optimum moisture content’

Each compacted layer of controlled fill was tested to determine compliance with the project specification. Where field density testing revealed compaction standard achieved was below specification requirement, the affected areas were ripped, moisture conditioned, re-compacted and tested.

CONCLUSION

As far as SES has been able to determine, filling operations were carried out in accordance with A.S. 3798 – 2007 “Guidelines on Earthworks for Commercial and Residential Developments” and comply with the project specifications.

Prior to construction activities, it is recommended that footings are designed in accordance with A.S. 2870 – 1996 “Residential Slabs & Footings – Construction”.

It should be noted that footing design and construction involves a number of steps including; Site classification, selection of a footing system, structural design, construction in accordance with the required design details and construction methods, and appropriate maintenance.

It is the owner’s responsibility to ensure that the sites are properly maintained.

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