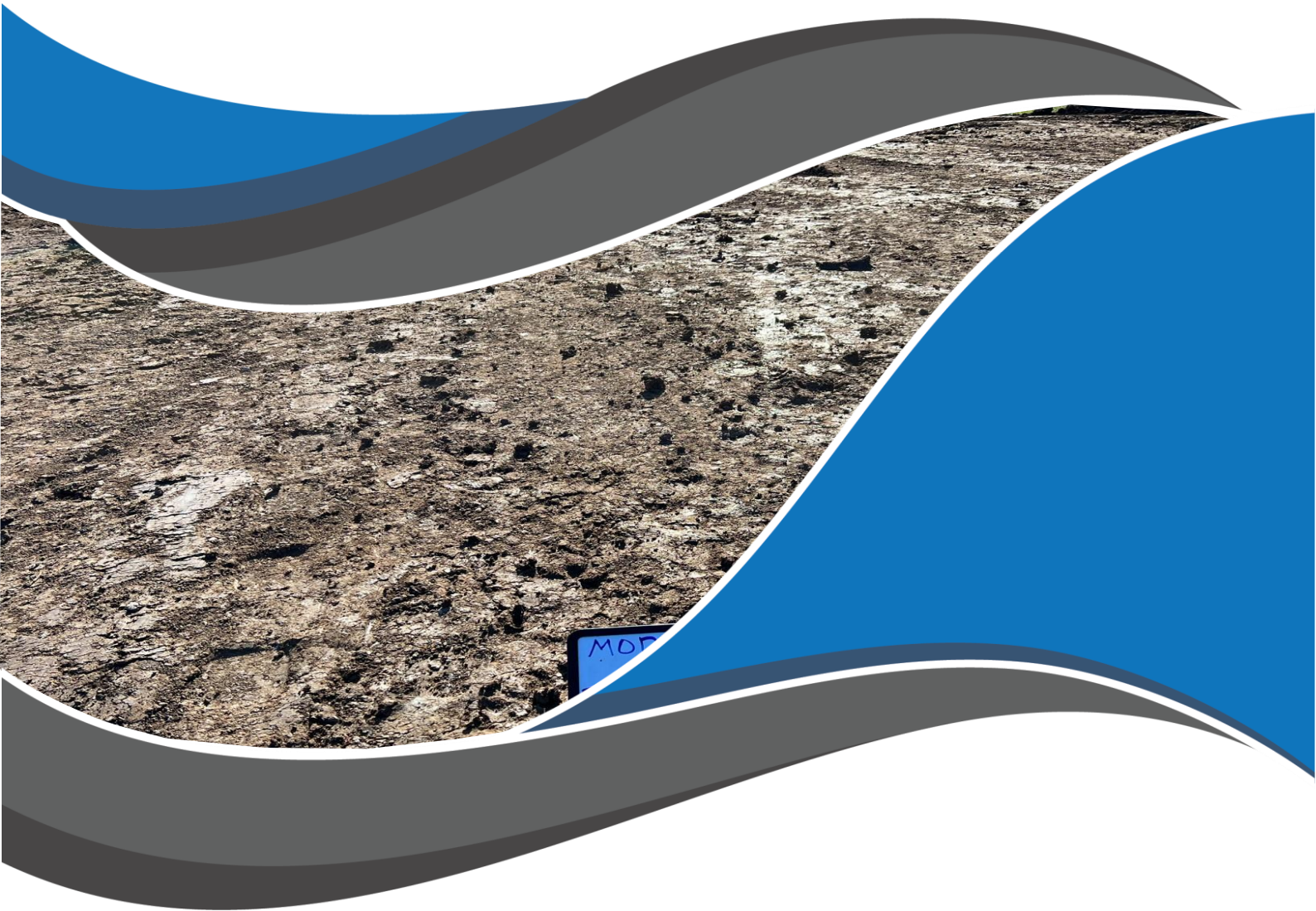


Modeina Estate - Stage 33, Burnside

Level 1 Inspection & Testing Report

Reference: 1120 0379-1



Prepared for:

DFC (Project Management) Pty Ltd

August 2023



A&Y ASSOCIATES
GEOTECHNICAL ENGINEERING CONSULTANTS

Document Control Record

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Document control

Report title		Level 1 Inspection & Testing			
Project reference number		1120 0379-1			
Client		DFC (Project Management) Pty Ltd On behalf of DFC (Project Management) Pty Ltd			
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Revision	Date	Descriptions/Status	Author	Reviewer	Approver
0	16/08/2023	First Issue	Y Balkis	A Tan	A Tan

Approver



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ENGINEERS
AUSTRALIA
Professional Engineer
MEMBER

Disclaimer

The findings and conclusions contained in this report are made based on site conditions that existed at the time this work was conducted. The conclusions present in this report are relevant to the conditions of the site and the state of legislation currently enacted as at the date of this report.

Findings and conclusions are made assuming that the soil, groundwater, geological and chemical conditions detailed within this report are accurate and remain applicable to the site at the time of writing. No other warranties are made or intended.

A&Y Associates (A&Y) Pty Ltd has used a degree of skill and care ordinarily exercised by reputable members of our profession practicing in the same or similar locality.

A&Y does not make any representation or warranty that the conclusions in this report will be applicable in the future as there may be changes in the condition of the site, applicable legislation or other factors that would affect the conclusions contained in this report.

This report has been prepared exclusively for use by our client. This report cannot be reproduced without the written authorisation of A&Y and then can only be reproduced in its entirety.

Applicability

This report has been prepared for the benefit for our client with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose without our prior review and agreement.

No responsibility for this report will be taken by A&Y if it is altered in any way, or not reproduced in full.

Contents

1	Introduction.....	3
2	Project Summary	3
3	Project Specifications.....	4
4	Subgrade Assessment.....	5
5	Earthworks	5
6	Fill Material	5
7	Testing.....	6
8	Finished Surface Levels	6
9	Exclusion	6
10	Conclusion	7
	Appendix A - Site Plan	8
	Appendix B – Test Locations	10
	Appendix C – Test Results Summary	12
	Appendix D – NATA Test Results	14

1 Introduction

This report presents the results of the Level 1 Inspection and Testing for the construction of the fill platforms located in Modeina Estate - Stage 33, Burnside.

2 Project Summary

It is understood that DFC (Project Management) Pty Ltd, on behalf of DFC (Project Management) Pty Ltd requires the fill platforms within Stage 33 to be constructed under Level 1 Inspection and Testing undertaken by a Geotechnical Inspection and Testing Authority (GITA).

Level 1 Inspection and Testing, as defined in AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Development," provides for full time inspection of the construction of controlled fill and field and laboratory testing in accordance with AS1289 "Methods of Testing Soils for Engineering Purposes".

The Level 1 inspection was undertaken by a Geotechnician from A&Y Associates over a period of **3 working days** on the **16th, 17th, and 18th of November 2022**.

This report is applicable for fill placed by DFC (Project Management) Pty Ltd for the following lots located in Modeina Estate - Stage 33, Burnside, as shown in Appendix A – Site Plan.

- Lot 3301 – 3302
- Lot 3314 – 3319

3 Project Specifications

The supervision and inspections were performed based on AS3798 and the specifications provided in the drawing (ref: "Modeina Stage 33 - Roads and Drainage, City of Melton"; Drawing no. 1275/33/NE/6 REVC1 by DPM Consulting Group; Dated 29/08/2022) for the construction works in in Modeina Estate - Stage 33, Burnside. A short summary of the requirements outline in AS3798 is provided below:

- All filling in excess of 300mm depth within the building envelope of allotments shall be undertaken to specifications satisfying the requirements of AS3798.
- Material to be used for fill construction shall satisfy the requirements of AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Developments". Material used shall be free of:
 - Organic soils, such as topsoils, severely root affected subsoil and peat;
 - Contaminated soils;
 - Materials which undergo volume change or loss of strength when disturbed and exposed to moisture;
 - Silts, or materials that have deleterious engineering properties of silt;
 - Fill that contains wood, metal, plastic, boulders, or other deleterious material, in sufficient proportions to affect the required performance of fill;
 - The maximum particle size of any rocks or other lump, within the layer, has not exceeded two-thirds (2/3) of the compacted layer thickness.
- Compaction to achieve a dry density ratio of at least 95% Standard, as the project was classified as **Residential**.

4 Subgrade Assessment

The subgrade was assessed by A&Y Associates following the topsoil removal and before any fill was placed. The subgrade assessment was undertaken on the **15th of November 2022** as mentioned in report **1120 0379 -1 (SSI1)**

The exposed subgrade material comprised of silty clay. No wet or soft patches were found during the inspection. No evidence of deleterious material was found during the inspection.

5 Earthworks

The earthworks for this project included stripping of topsoil, removing of tree roots, proof rolling the subgrade and placement and compaction of fill to construct engineered platforms.

Based on design plans and site inspection, it appears that the fill thickness placed is approximately 150 – 750mm. The fill layers or thickness nominated in this report are provided as a guide on the amounts of fill placed and do not necessarily reflect an accurate survey of the fill levels.

6 Fill Material

The fill material used for the platform consisted of site derived material. The material was predominantly comprising of Silty Clay with occasional gravels.

7 Testing

Field density testing was undertaken on the compacted fill at a frequency of a minimum of 3 tests per lot (AS3798 Table 8.1).

Tests were performed using a Nuclear Density Gauge for field density determination as per AS 1289.5.8.1. Testing was completed at a minimum rate of 3 field density tests per day's production based on the minimum requirements of AS 3798-2007 and taken from each layer of fill placed.

A total of 9 field density tests were performed during the earthworks. All of the test results met the specified compaction requirement of 95% Standard Compaction.

The locations of the 9 field density tests are shown in Appendix B – Test Locations. A summary of the test results obtained from the field density testing is presented in Appendix C – Test Results Summary. The laboratory test reports of the field density tests are presented in Appendix D – NATA Test Results.

8 Finished Surface Levels

It should be noted that even though the final fill layer meets the specification requirements, over time, the material may be subject to adverse weather conditions resulting in either surface softening or drying and cracking. The top 150mm – 200mm of the fill will deteriorate with time and should be considered by the foundation engineer.

9 Exclusion

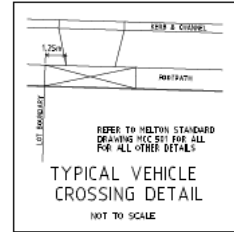
A&Y Associates was not involved in monitoring and testing the following works and as such are not included in the Level 1 report.

- Any trenches excavated and backfilled on site for the installation of underground services such as sewers, electrical conduits, water mains etc.
- Footpaths in front of the lots that may be excavated and filled after the Level 1 supervision conducted by A&Y Associates.
- Uncontrolled fill and topsoil that may have been placed as part of the landscaping of the site following the completion of the engineered fill construction.

10 Conclusion

On the completion of the earthworks and after analysing the materials used, it has been concluded that the filling procedure conducted by DFC (Project Management) Pty Ltd appears to be consistent with the requirements of AS3798 in regards to the placement of fill materials on a project under Level 1 Supervision and in accordance with the project specification as provided to A&Y Associates.

Appendix A - Site Plan



STREET	ONE WAY		TWO-WAY		TWO-WAY TRUCKS		ELECTRICITY		LIGHTING	
	SEC	OFFSET	SEC	OFFSET	SEC	OFFSET	SEC	OFFSET	SEC	OFFSET
P. DUMFRIES	E-W	3:15	E-W	2:44	E-E	1:45	E-E	2:40	1:00	1:00
HARRISON CROFT (NORTH)	N	2:35	N	2:44	S	1:40	S	2:20	1:00	1:00
HARRISON CROFT (EAST)	W	2:35	W	2:44	E	1:50	E	1:45	1:00	1:00
HARRISON CROFT (SOUTH)	N	2:35	N	2:44	S	1:40	S	2:20	1:00	1:00
WILSON DRIVE	E-W	2:15	E-W	1:50	N	1:30	N	1:30	1:00	1:00
BRADDOCK WAY	W	2:35	W	2:44	E	1:50	E	1:45	1:00	1:00

THESE DRAWINGS ARE TO BE USED ONLY FOR THE PURPOSE FOR WHICH THEY WERE INTENDED.
NO RESPONSIBILITY WILL BE BORNE BY THE ENGINEERING CONSULTANT SHOULD THESE DRAWINGS
BE USED FOR ANY OTHER PURPOSE.

FOR CONSTRUCTION



DESIGNED BY: J. BEVERIDGE	APPROVED BY: CITY OF MELTON	SCALE: 1:500
CHECKED BY: J. BEVERIDGE	PROJECT: MODENA STAGE 33	LEVEL, DATUM AND
DRAWN BY: M. COLE	ROADS AND DRAINAGE	SHEET 2 OF 20
APPROVED BY: T. VETTEL	DETAILS: 1. VETTEL	DRAWING NO.
DATE: 27/05/2022	8. SERVICES OFF-SITE TABLE	1275/33/NE/2

SITE PLAN SKETCH—NOT TO SCALE

PROJECT No:	1120 0379-1
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Appendix B – Test Locations



PROJECT:
Modeina Estate – Stage 33

LOCATION:
Burnside

CLIENT:	DFC (Project Management) Pty Ltd
---------	----------------------------------


PROJECT No:	1120 0379-1
-------------	-------------

SITE PLAN SKETCH—NOT TO SCALE



A&Y ASSOCIATES
GEOTECHNICAL ENGINEERING CONSULTANTS

Appendix C – Test Results Summary

Project No		1120 0379-1			Client		DFC (Project Management) Pty Ltd			
Project Name		Modeina Estate - Stage 33 (Level 1)			Specification			Density Ratio \geq 95% of Peak Wet Density		
Location		Burnside								
Test No	Retest of Test	Date	Location	Layer	Oversize	Density Ratio	Moisture Ratio	Moisture Variation	Pass / Fail	Retest
#	#		Lot #	#	%	%	%	%		Pass / Fail
1	-	16/11/2022	-	1	0.0	97.0	106.0	1.5	Pass	-
2	-	16/11/2022	-	2	0.0	97.0	107.5	2.0	Pass	-
3	-	16/11/2022	-	FSL	0.0	97.5	98.0	-0.5	Pass	-
4	-	17/11/2022	-	1	2.1	97.0	110.0	2.0	Pass	-
5	-	17/11/2022	-	2	1.0	97.0	107.0	2.0	Pass	-
6	-	17/11/2022	-	3	2.5	97.0	97.0	-0.5	Pass	-
7	-	18/11/2022	-	4	2.0	96.5	106.0	1.5	Pass	-
8	-	18/11/2022	-	FSL	4.2	96.5	109.0	2.0	Pass	-
9	-	18/11/2022	-	FSL	3.6	97.0	96.5	-0.5	Pass	-
** Negative (-) value indicates that the field moisture content is drier than the optimum moisture content (OMC)									 A&Y ASSOCIATES <small>GEOTECHNICAL ENGINEERING CONSULTANTS</small>	
** Positive (+) value indicates that the field moisture content is wetter than the optimum moisture content (OMC)										

Appendix D – NATA Test Results

Field Density Test Results AS1289.5.7.1

A & Y Associates Pty Ltd
5/16 Network Drive
Truganina VIC 3029
PH: 0400 413 531
info@ayassociates.com.au

Client:	Excell Gray Bruni			Job No:	EGB2525	
Project:	Modeina Estate - Stage 33 (Level 1)			Report:	1	
Location:	Burnside					



Sample No	1	2	3			
Date Tested	16/11/2022	16/11/2022	16/11/2022			
Time Tested	AM	AM	AM			

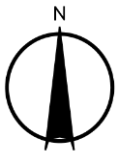
Test Location	Refer to Plan	Refer to Plan	Refer to Plan			
Level/Layer	1	2	FSL			
Layer Thickness	mm 150	150	150			
Test Depth	mm 125	125	125			
Field Wet Density	t/m ³ 1.85	1.84	1.89			
Field Moisture Content	% 23.9	24.7	23.0			
Material:	Site Derived Clay Fill	Site Derived Clay Fill	Site Derived Clay Fill			

Oversize Material	WET, % 0.0	0.0	0.0			
Sieve Size	mm 19	19	19			
Peak Converted Wet Density	t/m ³ 1.91	1.90	1.94			
Optimum Moisture Content	% 22.5	23	23.5			

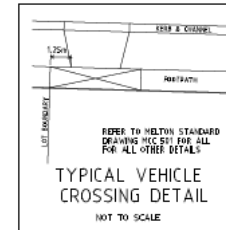
Moisture Ratio	% 106	107.5	98			
Moisture Variation	% 1.5	2.0	-0.5			
from OMC	Wetter	Wetter	Drier			
Density Ratio	% 97.0	97.0	97.5			

Specification:	95% STD	Test Selection:	N/A
Notes:	Ref : 1120 0379-1 (SI01)		
Test Method	AS1289 5.8.1, 5.7.1, 2.1.1, 1.1	Sampling Method:	AS 1289 1.2.1 6.4(b)

 NATA WORLD RECOGNISED ACCREDITATION	NATA Accredited Laboratory No. 20172	Approved Signatory:  David Burns Date: 28/11/2022
	Accreditation for compliance with ISO/IEC 17025 - Testing	
	The results of tests, calibrations and/or measurements included in this document, are traceable to Australian / National Standards	



Indicative Test Location



SERVICES OFFSET TABLE									
STREET	GAS		WATER		TELECOMMUNICATIONS		ELECTRICITY		LIGHTING
	SEE	OFFSET	SEE	OFFSET	SEE	OFFSET	SEE	OFFSET	OFFSET
BARBOTS WAY	E/W	1.25	E/W	1.25	E/W	1.25	E/W	1.25	1.25 BAR
HAVANA CIRCUT (W/ST)	N	2.25	N	2.40	S	1.60	S	2.40	1.25 BAR
HAVANA CIRCUT (E/ST)	W	2.25	W	2.40	E	1.60	E	2.40	1.25 BAR
HAVANA CIRCUT (W/ST)	N	2.25	N	2.40	S	1.60	S	2.40	1.25 BAR
HAVANA CIRCUT (E/ST)	W	2.25	W	2.40	E	1.60	E	2.40	1.25 BAR
BARBOTS WAY	W	2.25	W	2.40	E	1.60	E	2.40	1.25 BAR

LAYOUT PLAN - SHEET 1 of 2
SCALE: 1:500
SCALE: 1:500

NO.	REVISION	DATE	APPROVED	BY	DESCRIPTION
1		15/08/2022	JE		REVISED
2		15/08/2022	JE		CHANGED
3		15/08/2022	JE		CHANGED
4		15/08/2022	JE		CHANGED
5		15/08/2022	JE		CHANGED
6		15/08/2022	JE		CHANGED
7		15/08/2022	JE		CHANGED
8		15/08/2022	JE		CHANGED
9		15/08/2022	JE		CHANGED
10		15/08/2022	JE		CHANGED

22 Business Park Drive, North Melbourne 3048
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DESIGNED: J. BENDERHOE
DRAWN: J. BENDERHOE
CHECKED: M. COLE
APPROVED: T. VETTEL
DATE: 27/08/2022

AUTHORITY: CITY OF MELTON
PROJECT: MODEINA STAGE 33
ROADS AND DRAINAGE
DETAILS: LAYOUT PLAN - SHEET 1 OF 2
& SERVICES OFFSET TABLE

SCALE: 1:500
LEVEL DATUM: AHD
SHEET: 2 OF 2
DRAWING No.: 1275/33/NE/2
REV: C2

PROJECT:
Modeina Estate – Stage 33 (Level 1)

LOCATION:
Burnside

CLIENT:
Excell Gray Bruni

PROJECT No:
1120 0379-1 (SI01)

SITE PLAN SKETCH—NOT TO SCALE



Field Density Test Results AS1289.5.7.1

A & Y Associates Pty Ltd
5/16 Network Drive
Truganina VIC 3029
PH: 0400 413 531
info@ayassociates.com.au

Client:	Excell Gray Bruni			Job No:	EGB2525	
Project:	Modeina Estate - Stage 33 (Level 1)			Report:	2	
Location:	Burnside					
Sample No	4	5	6			
Date Tested	17/11/2022	17/11/2022	17/11/2022			
Time Tested	AM	AM	AM			
Test Location	Refer to Plan	Refer to Plan	Refer to Plan			
Level/Layer	1	2	3			
Layer Thickness	mm 150	150	150			
Test Depth	mm 125	125	125			
Field Wet Density	t/m ³ 1.89	1.87	1.89			
Field Moisture Content	% 23.1	24.6	22.8			
Material:	Site Derived Clay Fill	Site Derived Clay Fill	Site Derived Clay Fill			
Oversize Material	WET, % 2.1	1.0	2.5			
Sieve Size	mm 19	19	19			
Peak Converted Wet Density	t/m ³ 1.95	1.92	1.94			
Optimum Moisture Content	% 21	23	23.5			
Moisture Ratio	% 110	107	97			
Moisture Variation	% 2.0	2.0	-0.5			
from OMC	Wetter	Wetter	Drier			
Density Ratio	% 97.0	97.0	97.0			

Specification:	95% STD	Test Selection:	N/A
Notes:	Ref : 1120 0379-1 (SI02)		
Test Method	AS1289 5.8.1, 5.7.1, 2.1.1, 1.1	Sampling Method:	AS 1289 1.2.1 6.4(b)



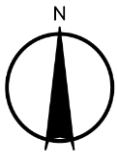
NATA Accredited Laboratory No. 20172
Accreditation for compliance with ISO/IEC 17025 - Testing
The results of tests, calibrations and/or measurements included
in this document, are traceable to Australian / National Standards

Approved Signatory:



David Burns
28/11/2022

Date:



Indicative Test Location



LAYOUT PLAN - SHEET 1 of 2
SCALE: 1:500
SCALE: 1:500

NO.	REVISION	DATE	APPROVED	BY
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99		19/08/2022	J.B.	
100		19/08/2022	J.B.	

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DESIGNED: J. BENDERHOE
DRAWN: J. BENDERHOE
CHECKED: M. COLE
APPROVED: T. VETTEL
DATE: 27/08/2022

AUTHORITY: CITY OF MELTON
PROJECT: MODEINA STAGE 33
ROADS AND DRAINAGE
DETAILS: LAYOUT PLAN - SHEET 1 OF 2
& SERVICES OFFSET TABLE

SCALE: 1:500
LEVEL DATUM: AHD
SHEET: 2 OF 2
DRAWING No.: 1275/33/NE/2
REV: C2

PROJECT:
Modeina Estate – Stage 33 (Level 1)

LOCATION:
Burnside

CLIENT:
Excell Gray Bruni

PROJECT No:
1120 0379-1 (SI02)

SITE PLAN SKETCH—NOT TO SCALE



A&Y ASSOCIATES
GEOTECHNICAL ENGINEERING CONSULTANTS

Field Density Test Results AS1289.5.7.1

A & Y Associates Pty Ltd
5/16 Network Drive
Truganina VIC 3029
PH: 0400 413 531
info@ayassociates.com.au

Client:	Excell Gray Bruni			Job No:	EGB2525	
Project:	Modeina Estate - Stage 33 (Level 1)			Report:	3	
Location:	Burnside					
Sample No	7	8	9			
Date Tested	18/11/2022	18/11/2022	18/11/2022			
Time Tested	AM	AM	AM			
Test Location	Refer to Plan	Refer to Plan	Refer to Plan			
Level/Layer	4	FSL	FSL			
Layer Thickness	mm 150	150	150			
Test Depth	mm 125	125	125			
Field Wet Density	t/m ³ 1.85	1.90	1.86			
Field Moisture Content	% 24.4	22.3	23.2			
Material:	Site Derived Clay Fill	Site Derived Clay Fill	Site Derived Clay Fill			
Oversize Material	WET, % 2.0	4.2	3.6			
Sieve Size	mm 19	19	19			
Peak Converted Wet Density	t/m ³ 1.90	1.96	1.91			
Optimum Moisture Content	% 23	20.5	24			
Moisture Ratio	% 106	109	96.5			
Moisture Variation	% 1.5	2.0	-0.5			
from OMC	Wetter	Wetter	Drier			
Density Ratio	% 96.5	96.5	97.0			

Specification:	95% STD	Test Selection:	N/A
Notes:	Ref : 1120 0379-1 (SI03)		
Test Method	AS1289 5.8.1, 5.7.1, 2.1.1, 1.1	Sampling Method:	AS 1289 1.2.1 6.4(b)



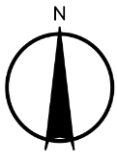
NATA Accredited Laboratory No. 20172
Accreditation for compliance with ISO/IEC 17025 - Testing
The results of tests, calibrations and/or measurements included
in this document, are traceable to Australian / National Standards

Approved Signatory:

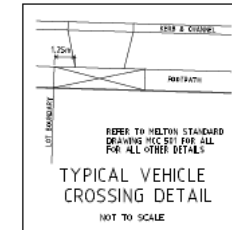
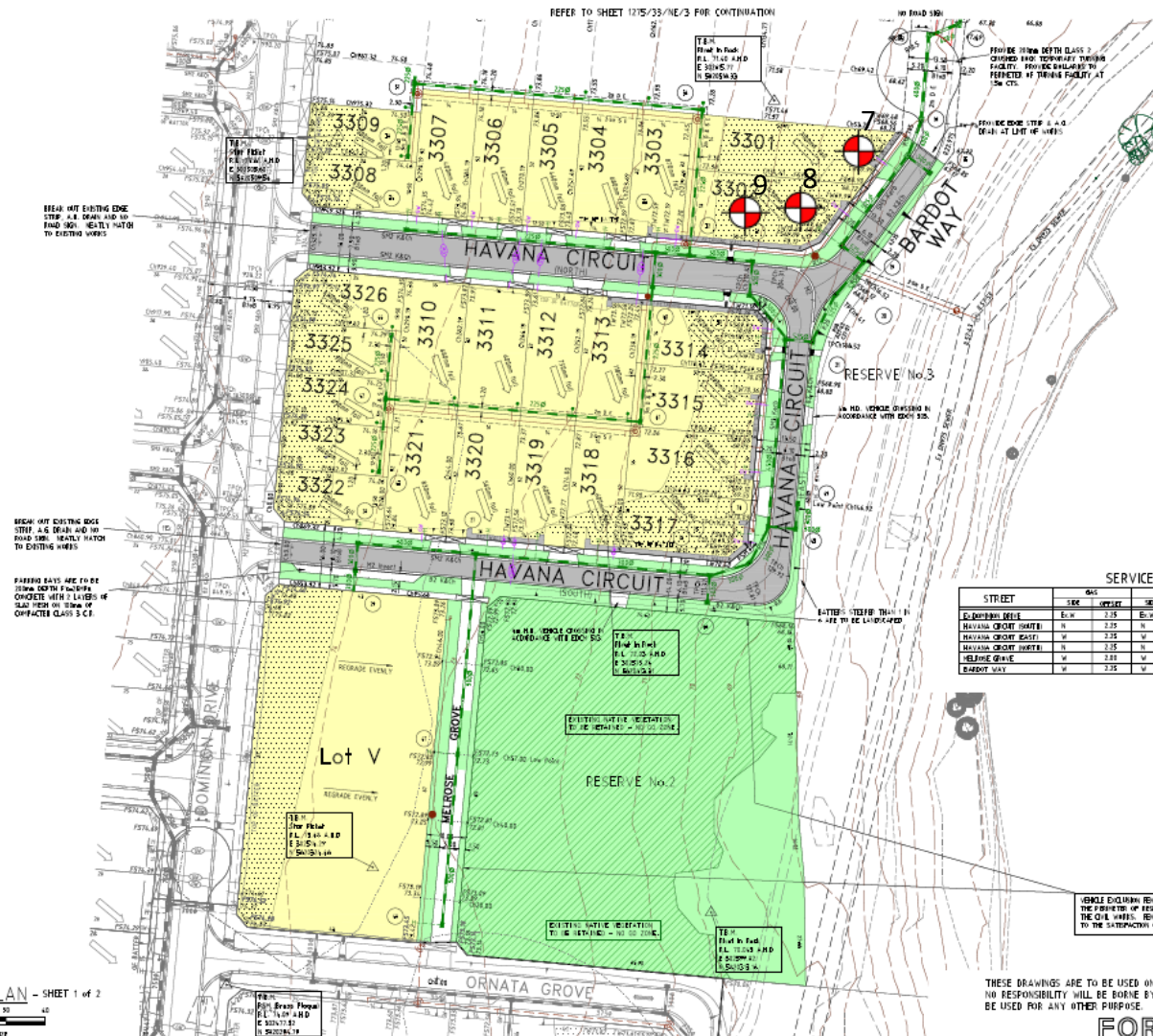


David Burns
28/11/2022

Date:



Indicative Test Location

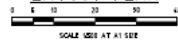


REFER TO MELTON STANDARD DRAWING MCC 591 FOR ALL FOR ALL OTHER DETAILS
TYPICAL VEHICLE CROSSING DETAIL
NOT TO SCALE

SERVICES OFFSET TABLE

STREET	GAS		WATER		TELECOMMUNICATIONS		ELECTRICITY		LIGHTING
	SEE	OFFSET	SEE	OFFSET	SEE	OFFSET	SEE	OFFSET	
BARBOTS WAY	E/W	1.5	E/W	1.5	E/W	1.5	E/W	1.5	1.5
HAVANA CIRCUIT (WEST)	N	2.25	N	2.4	S	1.6	E	2.4	1.5
HAVANA CIRCUIT (EAST)	W	2.25	W	2.4	E	1.6	E	2.4	1.5
HAVANA CIRCUIT (WEST)	N	2.25	N	2.4	S	1.6	E	2.4	1.5
HAVANA CIRCUIT (EAST)	W	2.25	W	2.4	E	1.6	E	2.4	1.5
BARBOTS WAY	W	2.25	W	2.4	E	1.6	E	2.4	1.5

LAYOUT PLAN - SHEET 1 of 2



NO.	REVISION	DATE	APPROVED	BY
1		15/08/2022	J.B.	
2		16/08/2022	J.B.	
3		16/08/2022	J.B.	
4		16/08/2022	J.B.	
5		16/08/2022	J.B.	
6		16/08/2022	J.B.	
7		16/08/2022	J.B.	
8		16/08/2022	J.B.	
9		16/08/2022	J.B.	
10		16/08/2022	J.B.	

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DESIGNED: J. BURNBIDGE
DRAWN: J. BURNBIDGE
CHECKED: M. COLE
APPROVED: T. VETTEL
DATE: 27/08/2022

CLIENT: CITY OF MELTON
PROJECT: MODENA STAGE 33
ROADS AND DRAINAGE
LAYOUT PLAN - SHEET 1 OF 2
& SERVICES OFFSET TABLE

SCALE: 1:500
LEVEL DATUM: AHD
SHEET: 2 OF 20
DRAWING No.: 1275/33/NE/2
REV: C2

PROJECT:
Modena Estate – Stage 33 (Level 1)

LOCATION:
Burnside

CLIENT:
Excell Gray Bruni

PROJECT No:
1120 0379-1 (SI03)

SITE PLAN SKETCH—NOT TO SCALE



A&Y ASSOCIATES
GEOTECHNICAL ENGINEERING CONSULTANTS