

Ellerton Estate - Stage 4, Melton South

Level 1 Inspection & Testing Report

Reference: 1120 0383-1



Prepared for:

Bild Group

December 2023



A&Y ASSOCIATES
GEOTECHNICAL ENGINEERING CONSULTANTS

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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.

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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.

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1 Introduction

This report presents the results of the Level 1 Inspection and Testing for the construction of the fill platforms located in Ellerton Estate - Stage 4, Melton South.

2 Project Summary

It is understood that Bild Group require the fill platforms within Stage 4 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 7 working days from the 21st to 28th of November 2022, and continuing in 2023 from the 23rd to 25th of October.

This report is applicable for fill placed by Bild Group for the following lots located in Ellerton Estate - Stage 4, Melton South, as shown in Appendix A – Site Plan.

- Lot 139 – 145
- Lot 152 – 157

3 Project Specifications

The supervision and inspections were performed based on AS3798, the specifications provided in the geotechnical report (ref: "Geotechnical Investigation, Proposed Subdivision, 171-211 Alfred Rd, Melton South"; Report No. IE200921, by Johnson Geotech Pty Ltd, dated 6/10/2020) and the drawing (ref: "Ellerton Estate 171-211 Alfred Rd. Stage 4"; Drawing No.136404RD01 – Rev0, by Colliers Pty Ltd, Dated 20/01/2023) for the construction works in Ellerton Estate – Stage 4, Melton South. A short summary of the requirements 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 98% Standard.

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 **18th of November 2022** as mentioned in report **1120 0383-1 (SS11)**.

The exposed subgrade material comprised natural 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 200 – 800mm. 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.

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 21 field density tests were performed during the earthworks. All of the test results met the specified compaction requirement of 98% Standard Compaction.

The locations of the 21 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.

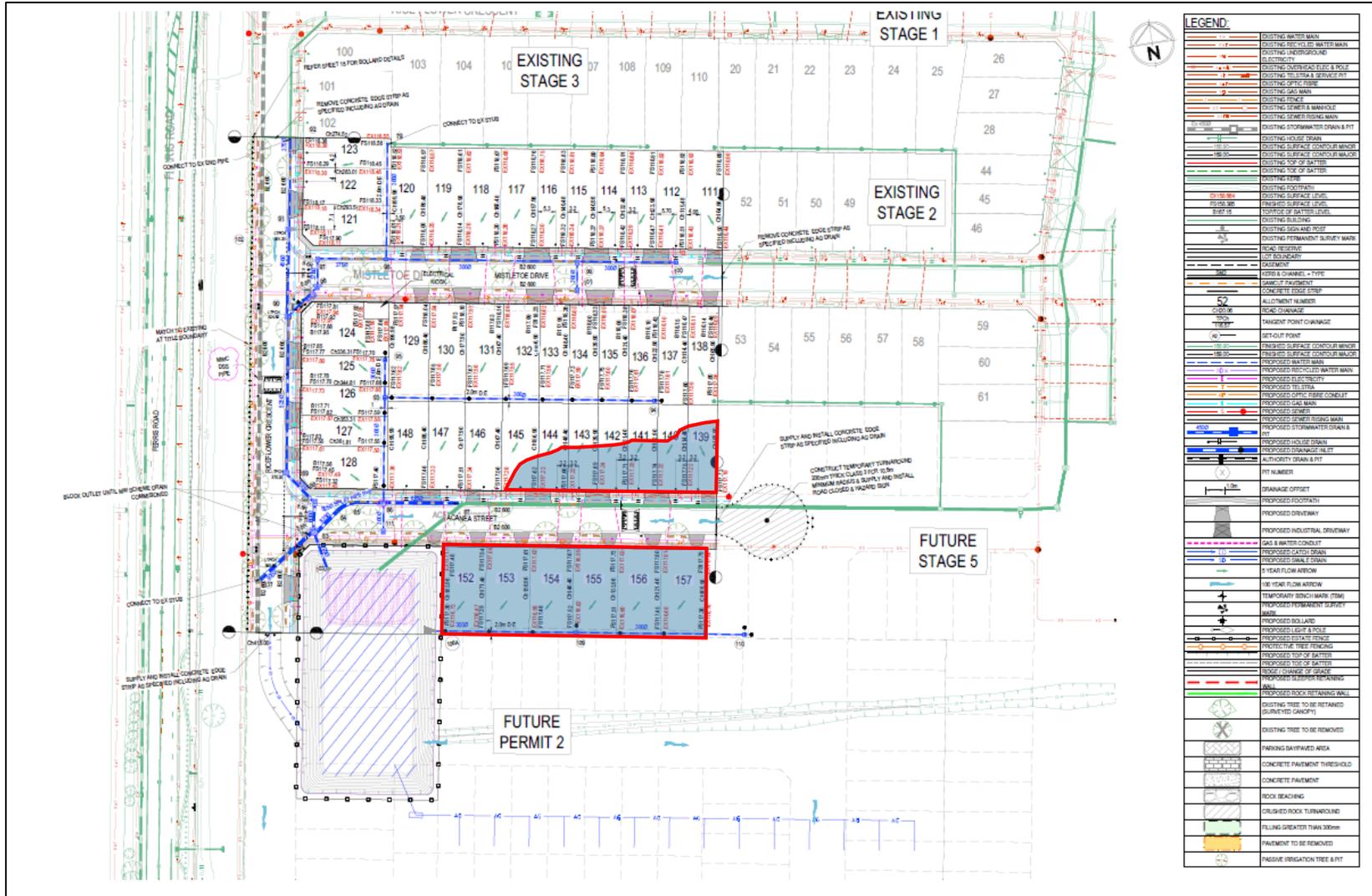
10 Conclusion

On the completion of the earthworks and after analysing the materials used, it has been concluded that the filling procedure conducted by Bild Group appears to be consistent with the requirements of AS 3798 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



Area Inspected and Tested



REV	AMENDMENTS	APPD	DATE
C	AMENDED AS PER COUNCIL COMMENTS	A. CHADLER	01/04/22
B	AMENDED AS PER COUNCIL COMMENTS	A. CHADLER	26/02/22
A	ISSUED FOR APPROVAL	A. CHADLER	26/02/22

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVIDED ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.



Elerton 171-211 Alfred Rd
STAGE 4
CITY OF MELTON
DETAIL PLAN
PRELIMINARY 136404RD04

PROJECT:
Ellerton Estate – Stage 4 (Level 1)

LOCATION:
Melton South

CLIENT:
Bild Group

PROJECT No.:
1120 0383-1

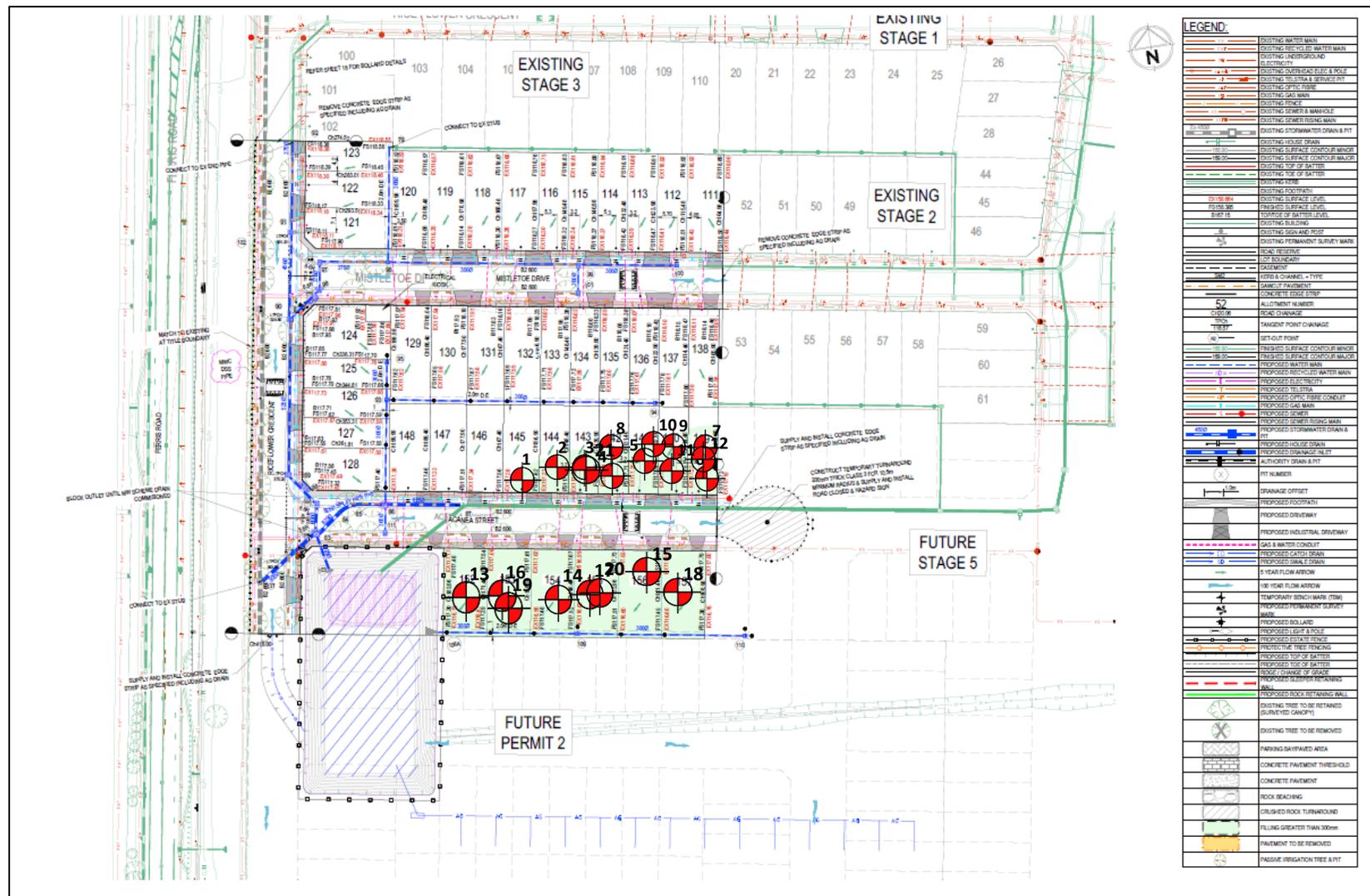
SITE PLAN SKETCH—NOT TO SCALE



Appendix B – Test Locations



Indicative Test Location



LEGEND:

	EXISTING WATER MAIN
	EXISTING 150mm WATER MAIN
	EXISTING UNDERGROUND ELECTRICITY
	EXISTING OVERHEAD ELECTRICITY & POLES
	EXISTING SEWER & SERVICE LINE
	EXISTING OPTIC FIBRE
	EXISTING GAS MAIN
	EXISTING FENCE
	EXISTING SEWER & MANHOLE
	EXISTING STORMWATER MAIN
	EXISTING STORMWATER DRAIN & PIT
	EXISTING HOUSE DRAIN
	EXISTING SURFACE CONCRETE MINOR
	EXISTING SURFACE CONCRETE MAJOR
	EXISTING TOP OF BATTER
	EXISTING RISE OF BATTER
	EXISTING STRIKE
	EXISTING FOOTPATH
	EXISTING SURFACE LEVEL
	EXISTING FINISHED SURFACE LEVEL
	EXISTING BATTER LEVEL
	EXISTING BUILDING
	EXISTING SIGN AND POST
	EXISTING PERMANENT SURVEY MARK
	ROAD RESERVE
	LOT BOUNDARY
	STREET & CHANNEL - TYPE
	BANK OF PAVEMENT
	CONCRETE EDGE STRIP
	ALIGNMENT NUMBER
	GRADE CHANGE
	TANGENT POINT CHANGE
	SET-OUT POINT
	FINISHED SURFACE CONCRETE MINOR
	PROPOSED SURFACE CONCRETE MAJOR
	PROPOSED WATER MAIN
	PROPOSED RECYCLED WATER MAIN
	PROPOSED ELECTRIC
	PROPOSED OPTIC FIBRE CONDUIT
	PROPOSED GAS MAIN
	PROPOSED SEWER
	PROPOSED STORMWATER DRAIN & PIT
	PROPOSED HOUSE DRAIN
	PROPOSED DRAINAGE PIT
	AUTHORITY DRAIN & PIT
	PIT NUMBER
	DRAINAGE OFFSET
	PROPOSED FOOTPATH
	PROPOSED DRIVEWAY
	PROPOSED INDUSTRIAL DRIVEWAY
	GAS & WATER CONDUIT
	PROPOSED CATCH DRAIN
	PROPOSED GULLY DRAIN
	5 YEAR FLOW ARROW
	10 YEAR FLOW ARROW
	TEMPORARY BENCH MARK (BM)
	TEMPORARY PERMANENT SURVEY MARK
	PROPOSED BOLLARD
	PROPOSED LIGHT & POLE
	PROPOSED EDGE FENCE
	PROTECTIVE TREE FENCING
	PROPOSED TOP OF BATTER
	PROPOSED RISE OF BATTER
	SLOPE / CHANGE OF GRADE
	PROPOSED SUBSOIL RETAINING WALL
	PROPOSED ROCK RETAINING WALL
	EXISTING TREE TO BE RETAINED (SURVIVED CANOPY)
	EXISTING TREE TO BE REMOVED
	PARKING BAY/PAVED AREA
	CONCRETE PAVEMENT THRESHOLD
	CONCRETE PAVEMENT
	ROCK BEACHING
	CRUSHED ROCK TURNAROUND
	FILLING GREATER THAN 300mm
	PAVEMENT TO BE REMOVED
	PASSIVE IRRIGATION TREE & PIT

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REV	AMENDMENTS	APPD	DATE
C	AMENDED AS PER COUNCIL COMMENTS	A. CHADLER	01/04/22
B	AMENDED AS PER COUNCIL COMMENTS	A. CHADLER	26/02/22
A	ISSUED FOR APPROVAL	A. CHADLER	26/02/22

PROJECT:
Ellerton Estate – Stage 4 (Level 1)

LOCATION:
Melton South

CLIENT:
Bild Group

PROJECT No:
1120 0383-1

SITE PLAN SKETCH—NOT TO SCALE

A&Y ASSOCIATES
GEOTECHNICAL ENGINEERING CONSULTANTS

Appendix C – Test Results Summary

Project No		1120 0383-1			Client	BMD Urban				
Project Name		Ellerton Estate - Stage 4 (Level 1)			Specification			Density Ratio \geq 98% of Peak Wet Density		
Location		Melton South								
Test No	Retest of Test	Date	Location	Layer	Oversize	Density Ratio	Moisture Ratio	Moisture Variation	Pass / Fail	Retest
#	#		Lot #	#	%	%	%	%		Pass / Fail
1	-	21/11/2022	-	1	0.0	98.5	97.5	-0.5	Pass	-
2	-	21/11/2022	-	1	0.0	98.5	96.5	-0.5	Pass	-
3	-	21/11/2022	-	1	0.0	98.5	98.0	-0.5	Pass	-
4	-	22/11/2022	-	1	0.0	98.5	98.0	-0.5	Pass	-
5	-	22/11/2022	-	1	0.0	98.5	96.0	-1.0	Pass	-
6	-	22/11/2022	-	1	0.0	98.5	98.0	-0.5	Pass	-
7	-	23/11/2022	-	1	0.0	98.5	98.0	-0.5	Pass	-
8	-	23/11/2022	-	1	0.0	98.5	96.5	-1.0	Pass	-
9	-	23/11/2022	-	1	0.0	98.5	98.0	-0.5	Pass	-
10	-	28/11/2022	-	1	0.0	98.5	108.5	2.0	Pass	-
11	-	28/11/2022	-	2	0.0	99.0	98.0	-0.5	Pass	-
12	-	28/11/2022	-	2	0.0	98.5	106.5	1.5	Pass	-
13	-	23/10/2023	-	1	0.0	98.5	97.0	-1.0	Pass	-
14	-	23/10/2023	-	1	0.0	99.0	96.5	-1.0	Pass	-
15	-	23/10/2023	-	1	0.0	98.5	97.5	-0.5	Pass	-
16	-	24/10/2023	-	2	0.0	98.5	97.5	-0.5	Pass	-
17	-	24/10/2023	-	2	0.0	98.5	97.0	-0.5	Pass	-
18	-	24/10/2023	-	3	0.0	99.0	97.0	-0.5	Pass	-
19	-	25/10/2023	-	FSL	0.0	98.5	97.0	-1.0	Pass	-
20	-	25/10/2023	-	FSL	0.0	98.5	96.5	-0.5	Pass	-
21	-	25/10/2023	-	FSL	0.0	99.0	97.5	-0.5	Pass	-

** Negative (-) value indicates that the field moisture content is drier than the optimum moisture content (OMC)

** 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

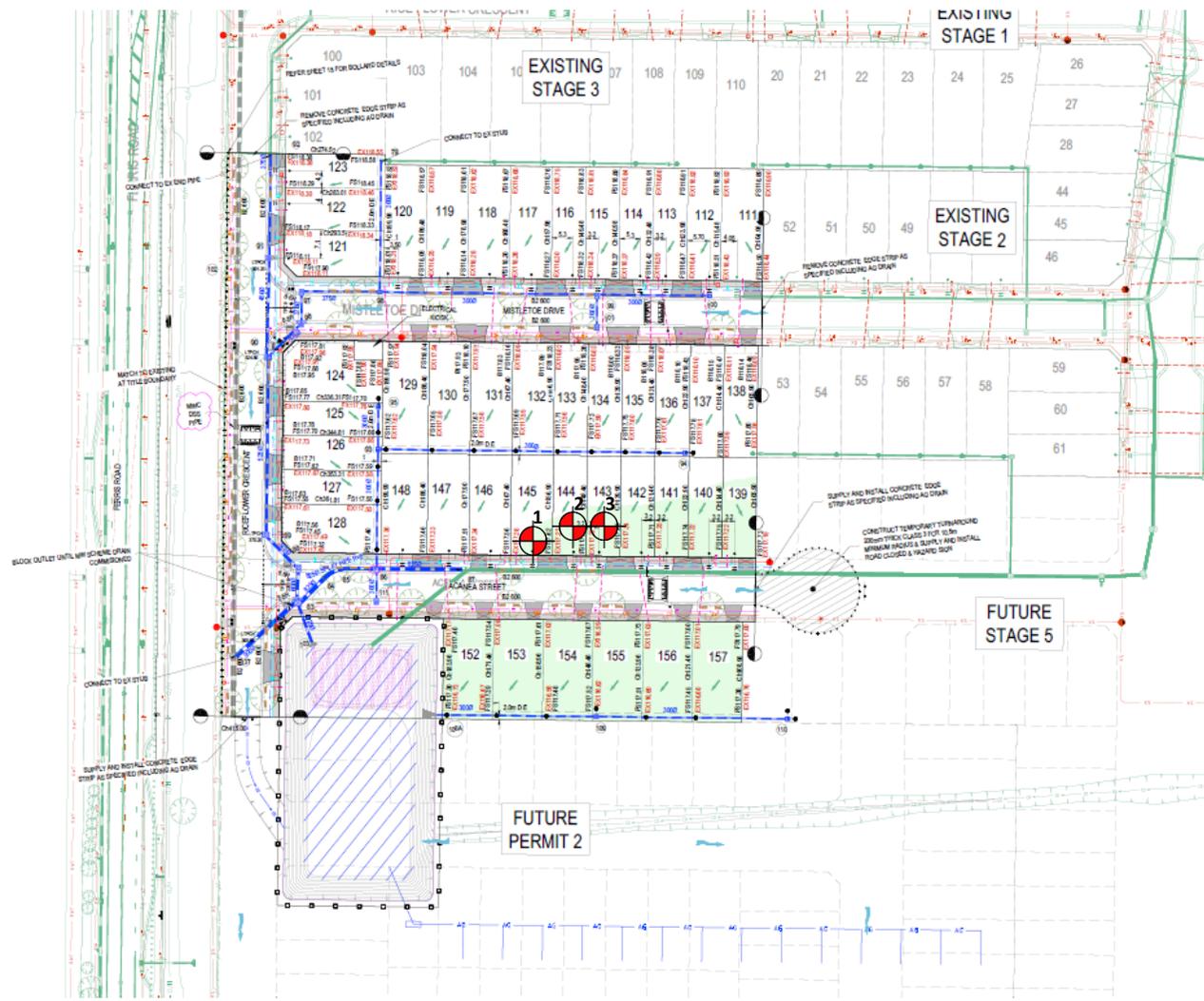
Client:	Bild Group	Job No:	BDG2533
Project:	Ellerton Estate - Stage 4 (Level 1)	Report:	1
Location:	Melton South		
Sample No	1	2	3
Date Tested	21/11/2022	21/11/2022	21/11/2022
Time Tested	PM	PM	PM
Test Location	Refer to Plan	Refer to Plan	Refer to Plan
Level/Layer	1	1	1
Layer Thickness	mm 200	mm 200	mm 200
Test Depth	mm 175	mm 175	mm 175
Field Wet Density	t/m ³ 1.88	t/m ³ 1.89	t/m ³ 1.94
Field Moisture Content	% 22.0	% 23.2	% 22.5
Material:	Site Derived Clay Fill	Site Derived Clay Fill	Site Derived Clay Fill
Oversize Material	WET, % 0.0	WET, % 0.0	WET, % 0.0
Sieve Size	mm 19	mm 19	mm 19
Peak Converted Wet Density	t/m ³ 1.91	t/m ³ 1.92	t/m ³ 1.97
Optimum Moisture Content	% 22.5	% 24	% 23
Moisture Ratio	% 97.5	% 96.5	% 98
Moisture Variation from OMC	% -0.5 Drier	% -0.5 Drier	% -0.5 Drier
Density Ratio	% 98.5	% 98.5	% 98.5

Specification:	98% STD	Test Selection:	N/A
Notes:	Ref : 1120 0383-1 (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)

 <p>NATA WORLD RECOGNISED ACCREDITATION</p>	<p>NATA Accredited Laboratory No. 20172</p> <p>Accreditation for compliance with ISO/IEC 17025 - Testing</p> <p>The results of tests, calibrations and/or measurements included in this document, are traceable to Australian / National Standards</p>	<p>Approved Signatory:</p> <div style="text-align: center;">  David Burns </div> <p>Date: 19/12/2022</p>
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Test Location



LEGEND:

	EXISTING WATER MAIN
	EXISTING 150mm WATER MAIN
	EXISTING UNDERGROUND ELECTRICITY
	EXISTING OVERHEAD ELECTRICITY & POLES
	EXISTING STORMWATER SERVICE LINE
	EXISTING OPTIC FIBRE
	EXISTING GAS MAIN
	EXISTING FENCE
	EXISTING SEWER & MANHOLE
	EXISTING SEWER SERVICE MAIN
	EXISTING STORMWATER DRAIN & PIT
	EXISTING HOUSE DRAIN
	EXISTING SURFACE CONCRETE MINOR
	EXISTING SURFACE CONCRETE MAJOR
	EXISTING TOP OF BATTER
	EXISTING RISE OF BATTER
	EXISTING LEVEL
	EXISTING FOOTPATH
	EXISTING SURFACE LEVEL
	FINISHED SURFACE LEVEL
	LEVEL OF BATTER LEVEL
	EXISTING BUILDING
	EXISTING SIGN AND POST
	EXISTING PERMANENT SURVEY MARK
	ROAD RESERVE
	LOT BOUNDARY
	STREET & CHANNEL - TYPE
	BANK OF PAVEMENT
	CONCRETE EDGE STRIP
	ALIGNMENT NUMBER
	GRADE CHANGE
	TANGENT POINT CHANGE
	SET-OUT POINT
	FINISHED SURFACE CONCRETE MINOR
	PROPOSED SURFACE CONCRETE MAJOR
	PROPOSED WATER MAIN
	PROPOSED RECYCLED WATER MAIN
	PROPOSED TELSTRA
	PROPOSED OPTIC FIBRE CONDUIT
	PROPOSED GAS MAIN
	PROPOSED SEWER
	PROPOSED SEWER RISING MAIN
	PROPOSED STORMWATER DRAIN & PIT
	PROPOSED HOUSE DRAIN
	PROPOSED DRAINAGE PIT
	AUTHORITY DRAIN & PIT
	PIT NUMBER
	DRAINAGE OFFSET
	PROPOSED FOOTPATH
	PROPOSED DRIVEWAY
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	PROPOSED CATCH DRAIN
	PROPOSED GULLY DRAIN
	5 YEAR FLOW ARROW
	10 YEAR FLOW ARROW
	TEMPORARY BENCH MARK (TBM)
	PROPOSED TEMPORARY SURVEY MARK
	PROPOSED BOLLARD
	PROPOSED LIGHT POLE
	PROPOSED EDGE FENCE
	PROTECTIVE TREE FENCING
	PROPOSED TOP OF BATTER
	PROPOSED RISE OF BATTER
	SLOPE / CHANGE OF GRADE
	PROPOSED SUBSOIL RETAINING WALL
	PROPOSED ROCK RETAINING WALL
	EXISTING TREE TO BE RETAINED (SURVIVED CANOPY)
	EXISTING TREE TO BE REMOVED
	PARKING BAY/PAVED AREA
	CONCRETE PAVEMENT THRESHOLD
	CONCRETE PAVEMENT
	ROCK BEACHING
	CRUSHED ROCK TURNAROUND
	FILLING GREATER THAN 300mm
	PAVEMENT TO BE REMOVED
	PASSIVE IRRIGATION TREE & PIT

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A	ISSUED FOR APPROVAL	A. CHADLEIGH	26/02/22

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Elterton 171-211 Alfred Rd
STAGE 4
CITY OF MELTON
DETAIL PLAN

PRELIMINARY 136404RD04

PROJECT:
Ellerton Estate – Stage 4 (Level 1)

LOCATION:
Melton South

CLIENT:
Bild Group

PROJECT No:
1120 0383-1 (SI01)

DATE:
21/11/2022

SITE PLAN SKETCH—NOT TO SCALE



Field Density Test Results

AS1289.5.7.1

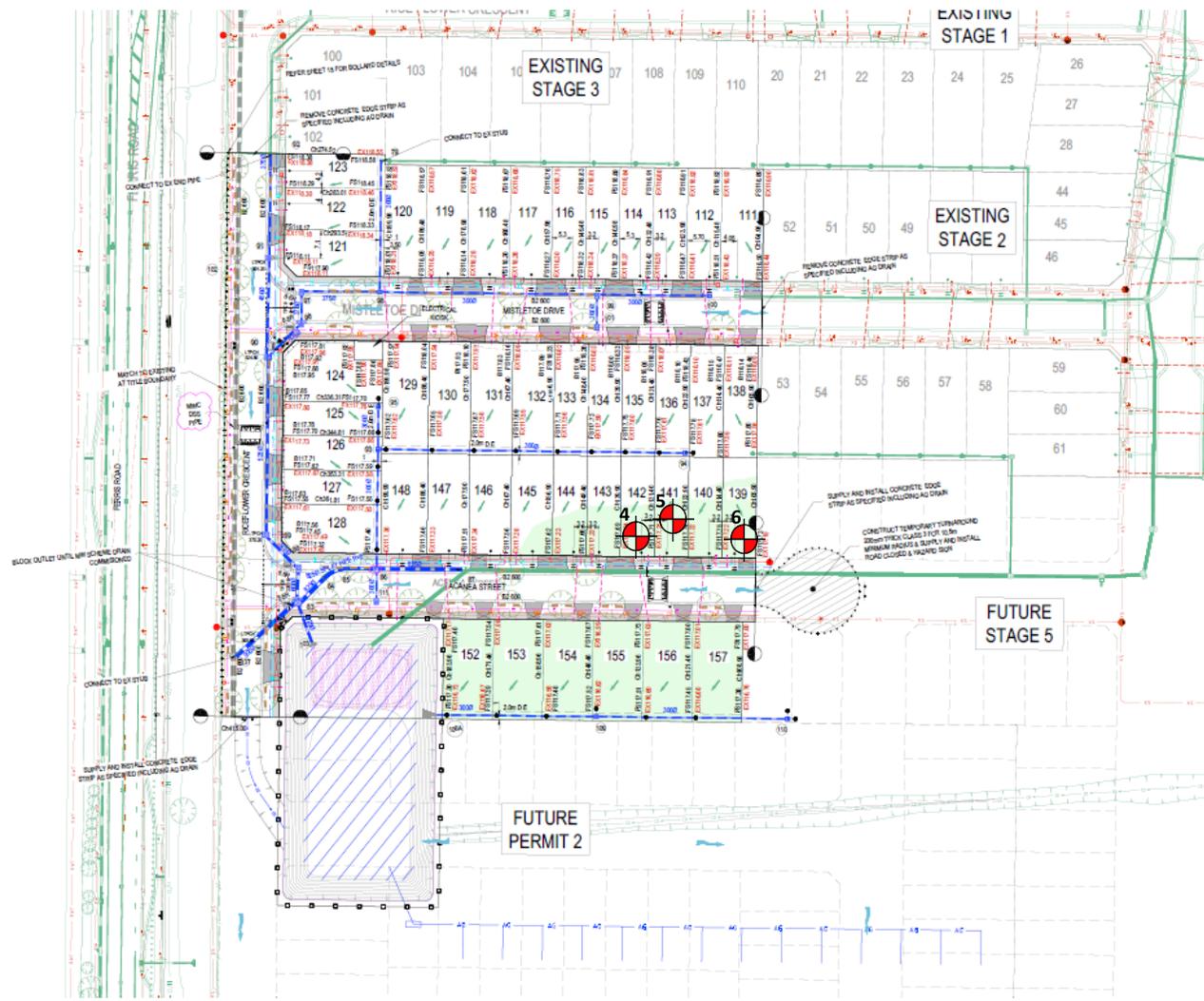
Client:	Bild Group	Job No:	BDG2533
Project:	Ellerton Estate - Stage 4 (Level 1)	Report:	2
Location:	Melton South		
Sample No	4	5	6
Date Tested	22/11/2022	22/11/2022	22/11/2022
Time Tested	PM	PM	PM
Test Location	Refer to Plan	Refer to Plan	Refer to Plan
Level/Layer	1	1	1
Layer Thickness	mm 200	mm 200	mm 200
Test Depth	mm 175	mm 175	mm 175
Field Wet Density	t/m ³ 1.90	t/m ³ 1.89	t/m ³ 1.84
Field Moisture Content	% 22.5	% 23.5	% 23.0
Material:	Site Derived Clay Fill	Site Derived Clay Fill	Site Derived Clay Fill
Oversize Material	WET, % 0.0	WET, % 0.0	WET, % 0.0
Sieve Size	mm 19	mm 19	mm 19
Peak Converted Wet Density	t/m ³ 1.93	t/m ³ 1.92	t/m ³ 1.87
Optimum Moisture Content	% 23	% 24.5	% 23.5
Moisture Ratio	% 98	% 96	% 98
Moisture Variation from OMC	% -0.5 Drier	% -1.0 Drier	% -0.5 Drier
Density Ratio	% 98.5	% 98.5	% 98.5

Specification:	98% STD	Test Selection:	N/A
Notes:	Ref : 1120 0383-1 (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)

 <p style="font-size: small;">WORLD RECOGNISED ACCREDITATION</p>	<p style="font-size: small;">NATA Accredited Laboratory No. 20172</p> <p style="font-size: small;">Accreditation for compliance with ISO/IEC 17025 - Testing</p> <p style="font-size: small;">The results of tests, calibrations and/or measurements included in this document, are traceable to Australian / National Standards</p>	<p>Approved Signatory:</p>  <p>David Burns</p>	<p>Date:</p> <p>19/12/2022</p>
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Test Location



LEGEND:

	EXISTING WATER MAIN
	EXISTING 150mm WATER MAIN
	EXISTING UNDERGROUND ELECTRICITY
	EXISTING OVERHEAD ELECTRICITY & POLES
	EXISTING STORMWATER & SEWERAGE PITS
	EXISTING OPTIC FIBRE
	EXISTING GAS MAIN
	EXISTING FENCE
	EXISTING SEWER & MANHOLE
	EXISTING STORMWATER MAIN
	EXISTING STORMWATER DRAIN & PIT
	EXISTING HOUSE DRAIN
	EXISTING SURFACE CONCRETE MINOR
	EXISTING SURFACE CONCRETE MAJOR
	EXISTING TOP OF BATTER
	EXISTING RISE OF BATTER
	EXISTING LEVEL
	EXISTING FOOTPRINT
	EXISTING SURFACE LEVEL
	FINISHED SURFACE LEVEL
	EDGE OF BATTER LEVEL
	EXISTING BUILDING
	EXISTING SIGN AND POST
	EXISTING PERMANENT SURVEY MARK
	ROAD RESERVE
	LOT BOUNDARY
	STREET & CHANNEL - TYPE
	BANK OF PAVEMENT
	CONCRETE EDGE STRIP
	ALIGNMENT NUMBER
	GRADE CHANGE
	TANGENT POINT CHANGE
	SET-OUT POINT
	FINISHED SURFACE CONCRETE MINOR
	PROPOSED SURFACE CONCRETE MAJOR
	PROPOSED WATER MAIN
	PROPOSED RECYCLED WATER MAIN
	PROPOSED TELSTRA
	PROPOSED OPTIC FIBRE CONDUIT
	PROPOSED GAS MAIN
	PROPOSED SEWER
	PROPOSED SEWER RISING MAIN
	PROPOSED STORMWATER DRAIN & PIT
	PROPOSED HOUSE DRAIN
	PROPOSED DRAINAGE PIT
	AUTHORITY DRAIN & PIT
	PIT NUMBER
	DRAINAGE OFFSET
	PROPOSED FOOTPATH
	PROPOSED DRIVEWAY
	PROPOSED INDUSTRIAL DRIVEWAY
	GAS & WATER CONDUIT
	PROPOSED CATCH DRAIN
	PROPOSED GULLY DRAIN
	5 YEAR FLOOD ARROW
	10 YEAR FLOOD ARROW
	TEMPORARY BENCH MARK (TBM)
	PROPOSED TEMPORARY SURVEY MARK
	PROPOSED BOLLARD
	PROPOSED LIGHT POLE
	PROPOSED EDGE FENCE
	PROTECTIVE TREE FENCING
	PROPOSED TOP OF BATTER
	PROPOSED RISE OF BATTER
	SLOPE / CHANGE OF GRADE
	PROPOSED SUBSOIL RETAINING WALL
	PROPOSED ROCK RETAINING WALL
	EXISTING TREE TO BE RETAINED (SURVIVED CANOPY)
	EXISTING TREE TO BE REMOVED
	PARKING BAY/PAVED AREA
	CONCRETE PAVEMENT THRESHOLD
	CONCRETE PAVEMENT
	ROCK BEACHING
	CRUSHED ROCK TURNAROUND
	FILLING GREATER THAN 300mm
	PAVEMENT TO BE REMOVED
	PASSIVE IRRIGATION TREE & PIT

REV	AMENDMENTS	APPD	DATE
C	AMENDED AS PER COUNCIL COMMENTS	A. CHADLEIGH	01/04/22
B	AMENDED AS PER COUNCIL COMMENTS	A. CHADLEIGH	26/02/22
A	ISSUED FOR APPROVAL	A. CHADLEIGH	26/02/22

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
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Elerton 171-211 Alfred Rd
STAGE 4
CITY OF MELTON
DETAIL PLAN

PRELIMINARY 136404RD04

PROJECT:
Ellerton Estate – Stage 4 (Level 1)

LOCATION:
Melton South

CLIENT:
Bild Group

PROJECT No:
1120 0383-1 (SI02)

DATE:
22/11/2022

SITE PLAN SKETCH—NOT TO SCALE



Field Density Test Results AS1289.5.7.1

Client:	Bild Group	Job No:	BDG2533
Project:	Ellerton Estate - Stage 4 (Level 1)	Report:	3
Location:	Melton South		

Sample No	7	8	9			
Date Tested	23/11/2022	23/11/2022	23/11/2022			
Time Tested	PM	PM	PM			

Test Location	Refer to Plan	Refer to Plan	Refer to Plan			
Level/Layer	1	1	1			
Layer Thickness	mm 200	mm 200	mm 200			
Test Depth	mm 175	mm 175	mm 175			
Field Wet Density	t/m ³ 1.85	t/m ³ 1.91	t/m ³ 1.89			
Field Moisture Content	% 22.5	% 23.2	% 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	mm 19	mm 19			
Peak Converted Wet Density	t/m ³ 1.88	t/m ³ 1.94	t/m ³ 1.92			
Optimum Moisture Content	% 23	% 24	% 23.5			

Moisture Ratio	%	98	96.5	98		
Moisture Variation from OMC	%	-0.5	-1.0	-0.5		
Density Ratio	%	98.5	98.5	98.5		

Specification:	98% STD	Test Selection:	N/A
Notes:	Ref : 1120 0383-1 (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:

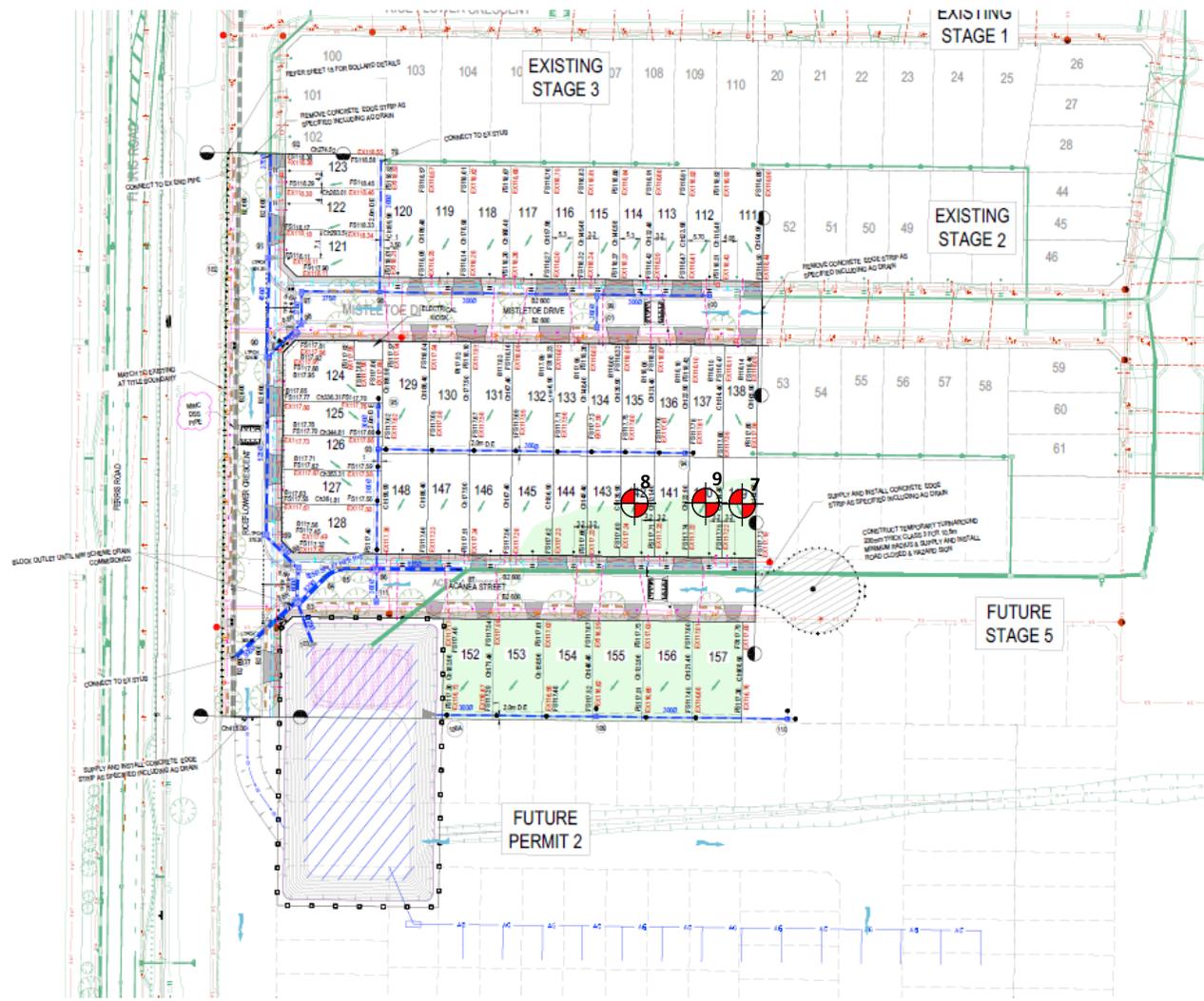


David Burns

Date: 19/12/2022



Test Location



LEGEND:

	EXISTING WATER MAIN
	EXISTING 150mm WATER MAIN
	EXISTING UNDERGROUND ELECTRICITY
	EXISTING OVERHEAD ELECTRICITY & POLES
	EXISTING STORMWATER SERVICE LINE
	EXISTING OPTIC FIBRE
	EXISTING GAS MAIN
	EXISTING FENCE
	EXISTING SEWER & MANHOLE
	EXISTING SEWER SERVICE MAIN
	EXISTING STORMWATER DRAIN & PIT
	EXISTING HOUSE DRAIN
	EXISTING SURFACE CONCRETE MINOR
	EXISTING SURFACE CONCRETE MAJOR
	EXISTING TOP OF BATTER
	EXISTING RISE OF BATTER
	EXISTING LEVEL
	EXISTING FOOTPATH
	EXISTING SURFACE LEVEL
	FINISHED SURFACE LEVEL
	LEVEL OF BATTER LEVEL
	EXISTING BUILDING
	EXISTING SIGN AND POST
	EXISTING PERMANENT SURVEY MARK
	ROAD RESERVE
	LOT BOUNDARY
	DRIVEWAY
	SEWER & CHANNEL - TYPE
	BANK OF PAVEMENT
	CONCRETE EDGE STRIP
	ALIGNMENT NUMBER
	GRADE CHANGE
	TANGENT POINT CHANGE
	SET-OUT POINT
	FINISHED SURFACE CONCRETE MINOR
	PROPOSED SURFACE CONCRETE MAJOR
	PROPOSED WATER MAIN
	PROPOSED RECYCLED WATER MAIN
	PROPOSED TELSTRA
	PROPOSED OPTIC FIBRE CONDUIT
	PROPOSED GAS MAIN
	PROPOSED SEWER
	PROPOSED SEWER RISING MAIN
	PROPOSED STORMWATER DRAIN & PIT
	PROPOSED HOUSE DRAIN
	PROPOSED DRAINAGE PIT
	AUTHORITY DRAIN & PIT
	PIT NUMBER
	DRAINAGE OFFSET
	PROPOSED FOOTPATH
	PROPOSED DRIVEWAY
	PROPOSED INDUSTRIAL DRIVEWAY
	GAS & WATER CONDUIT
	PROPOSED CATCH DRAIN
	PROPOSED GULLY DRAIN
	5 YEAR FLOOD ARROW
	10 YEAR FLOOD ARROW
	TEMPORARY BENCH MARK (TBM)
	PROPOSED TEMPORARY SURVEY MARK
	PROPOSED BOLLARD
	PROPOSED LIGHT & POLE
	PROPOSED EDGE FENCE
	PROTECTIVE TREE FENCING
	PROPOSED TOP OF BATTER
	PROPOSED RISE OF BATTER
	SLOPE / CHANGE OF GRADE
	PROPOSED SUBSOIL RETAINING WALL
	PROPOSED ROCK RETAINING WALL
	EXISTING TREE TO BE RETAINED (SURVIVED CANOPY)
	EXISTING TREE TO BE REMOVED
	PARKING BAY/PAVED AREA
	CONCRETE PAVEMENT THRESHOLD
	CONCRETE PAVEMENT
	ROCK BEACHING
	CRUSHED ROCK TURNAROUND
	FILLING GREATER THAN 300mm
	PAVEMENT TO BE REMOVED
	PASSIVE IRRIGATION TREE & PIT

REV	AMENDMENTS	APPD	DATE
C	AMENDED AS PER COUNCIL COMMENTS	A. CHADLER	01/04/22
B	AMENDED AS PER COUNCIL COMMENTS	A. CHADLER	26/02/22
A	ISSUED FOR APPROVAL	A. CHADLER	26/02/22

WARNING
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Elerton 171-211 Alfred Rd
STAGE 4
CITY OF MELTON
DETAIL PLAN

PRELIMINARY 136404RD04

DATE: 23/11/2022

REV: C

PROJECT:
Ellerton Estate – Stage 4 (Level 1)

LOCATION:
Melton South

CLIENT:
Bild Group

PROJECT No:
1120 0383-1 (SI03)

DATE:
23/11/2022

SITE PLAN SKETCH—NOT TO SCALE



Field Density Test Results

AS1289.5.7.1

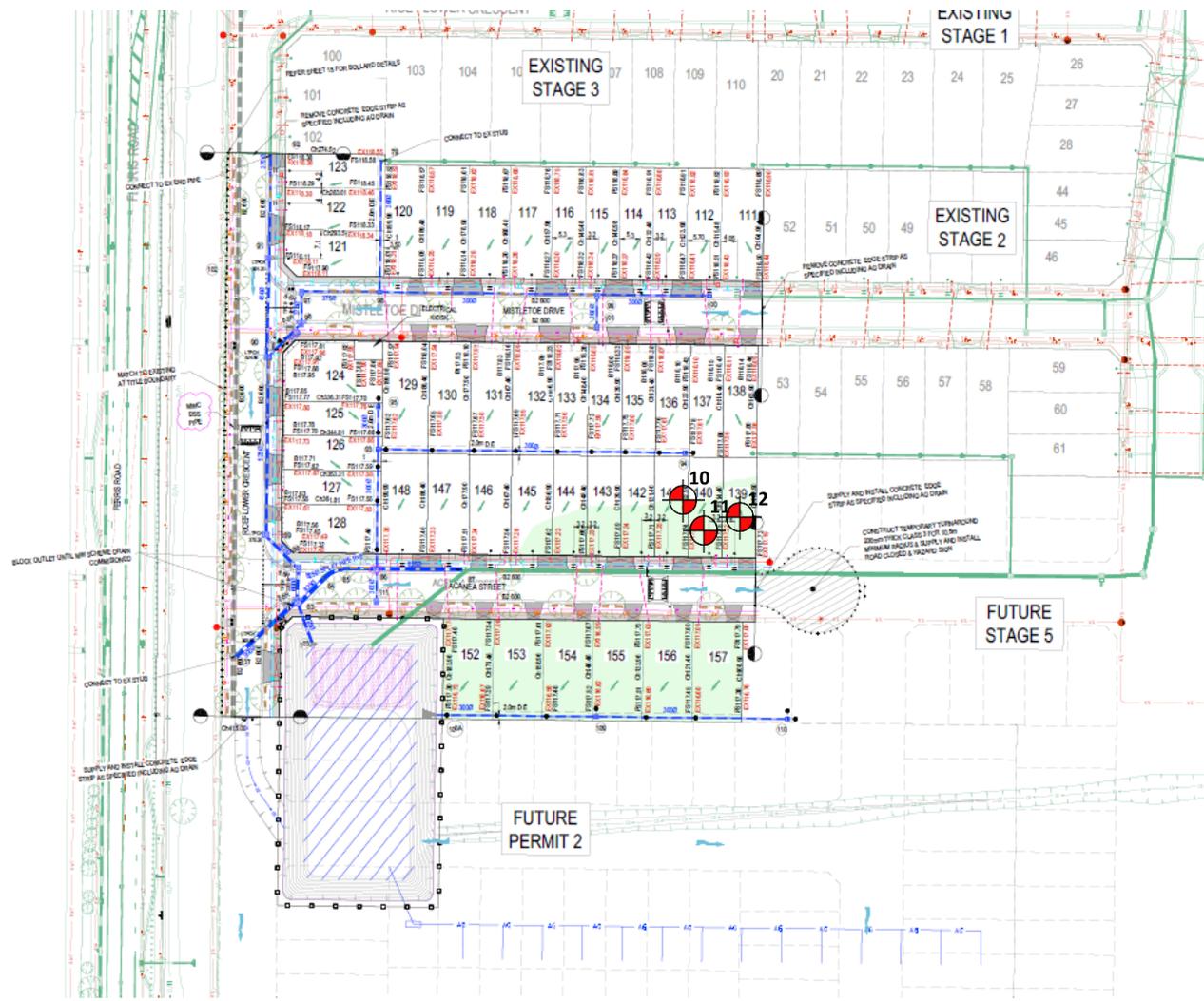
Client:	Bild Group	Job No:	BDG2533
Project:	Ellerton Estate - Stage 4 (Level 1)	Report:	4
Location:	Melton South		
Sample No	10	11	12
Date Tested	28/11/2022	28/11/2022	28/11/2022
Time Tested	AM	AM	AM
Test Location	Refer to Plan	Refer to Plan	Refer to Plan
Level/Layer	1	2	2
Layer Thickness	mm 200	mm 200	mm 200
Test Depth	mm 175	mm 175	mm 175
Field Wet Density	t/m ³ 1.86	t/m ³ 1.91	t/m ³ 1.89
Field Moisture Content	% 23.9	% 22.6	% 23.4
Material:	Site Derived Clay Fill	Site Derived Clay Fill	Site Derived Clay Fill
Oversize Material	WET, % 0.0	WET, % 0.0	WET, % 0.0
Sieve Size	mm 19	mm 19	mm 19
Peak Converted Wet Density	t/m ³ 1.89	t/m ³ 1.93	t/m ³ 1.92
Optimum Moisture Content	% 22	% 23	% 22
Moisture Ratio	% 108.5	% 98	% 106.5
Moisture Variation from OMC	% 2.0 Wetter	% -0.5 Drier	% 1.5 Wetter
Density Ratio	% 98.5	% 99.0	% 98.5

Specification:	98% STD	Test Selection:	N/A
Notes:	Ref : 1120 0383-1 (SI04)		
Test Method	AS1289 5.8.1, 5.7.1, 2.1.1, 1.1	Sampling Method:	AS 1289 1.2.1 6.4(b)

 <p style="font-size: small;">WORLD RECOGNISED ACCREDITATION</p>	<p style="font-size: small;">NATA Accredited Laboratory No. 20172</p> <p style="font-size: small;">Accreditation for compliance with ISO/IEC 17025 - Testing</p> <p style="font-size: small;">The results of tests, calibrations and/or measurements included in this document, are traceable to Australian / National Standards</p>	<p style="font-size: small;">Approved Signatory:</p>  <p style="font-size: small;">Date:</p>	<p style="font-size: small;">David Burns</p> <p style="font-size: small;">21/12/2022</p>
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Test Location



LEGEND:

	EXISTING WATER MAIN
	EXISTING 150mm WATER MAIN
	EXISTING UNDERGROUND ELECTRICITY
	EXISTING OVERHEAD ELECTRICITY & POLES
	EXISTING STORMWATER & SEWERAGE PITS
	EXISTING OPTIC FIBRE
	EXISTING GAS MAIN
	EXISTING FENCE
	EXISTING SEWER & MANHOLE
	EXISTING STORMWATER MAIN
	EXISTING STORMWATER DRAIN & PIT
	EXISTING HOUSE DRAIN
	EXISTING SURFACE CONCRETE MINOR
	EXISTING SURFACE CONCRETE MAJOR
	EXISTING TOP OF BATTER
	EXISTING RISE OF BATTER
	EXISTING FALL
	EXISTING FOOTPATH
	EXISTING SURFACE LEVEL
	FINISHED SURFACE LEVEL
	EDGE OF BATTER LEVEL
	EXISTING BUILDING
	EXISTING SIGN AND POST
	EXISTING PERMANENT SURVEY MARK
	ROAD RESERVE
	LOT BOUNDARY
	STREET & CHANNEL - TYPE
	BANK OF PAVEMENT
	CONCRETE EDGE STRIP
	ALIGNMENT NUMBER
	GRADE CHANGE
	TANGENT POINT CHANGE
	SET-OUT POINT
	FINISHED SURFACE CONCRETE MINOR
	PROPOSED SURFACE CONCRETE MAJOR
	PROPOSED WATER MAIN
	PROPOSED RECYCLED WATER MAIN
	PROPOSED TELSTRA
	PROPOSED OPTIC FIBRE CONDUIT
	PROPOSED GAS MAIN
	PROPOSED SEWER
	PROPOSED SEWER RISING MAIN
	PROPOSED STORMWATER DRAIN & PIT
	PROPOSED HOUSE DRAIN
	PROPOSED DRAINAGE PIT
	AUTHORITY DRAIN & PIT
	PIT NUMBER
	DRAINAGE OFFSET
	PROPOSED FOOTPATH
	PROPOSED DRIVEWAY
	PROPOSED INDUSTRIAL DRIVEWAY
	GAS & WATER CONDUIT
	PROPOSED CATCH DRAIN
	PROPOSED GULLY DRAIN
	5 YEAR FLOOD ARROW
	10 YEAR FLOOD ARROW
	TEMPORARY BENCH MARK (TBM)
	PROPOSED TEMPORARY SURVEY MARK
	PROPOSED BOLLARD
	PROPOSED LIGHT POLE
	PROPOSED EDGE FENCE
	PROTECTIVE TREE FENCING
	PROPOSED TOP OF BATTER
	PROPOSED RISE OF BATTER
	SLOPE / CHANGE OF GRADE
	PROPOSED SUBSOIL RETAINING WALL
	PROPOSED ROCK RETAINING WALL
	EXISTING TREE TO BE RETAINED (SURVIVED CANOPY)
	EXISTING TREE TO BE REMOVED
	PARKING BAY/PAVED AREA
	CONCRETE PAVEMENT THRESHOLD
	CONCRETE PAVEMENT
	ROCK BEACHING
	CRUSHED ROCK TURNAROUND
	FILLING GREATER THAN 300mm
	PAVEMENT TO BE REMOVED
	PASSIVE IRRIGATION TREE & PIT

REV	AMENDMENTS	APPD	DATE
C	AMENDED AS PER COUNCIL COMMENTS	A. CHADLEIGH	01/04/22
B	AMENDED AS PER COUNCIL COMMENTS	A. CHADLEIGH	26/02/22
A	ISSUED FOR APPROVAL	A. CHADLEIGH	26/02/22

WARNING
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Elterton 171-211 Alfred Rd
STAGE 4
CITY OF MELTON
DETAIL PLAN
PRELIMINARY 136404RD04
REV. C

PROJECT:
Ellerton Estate – Stage 4 (Level 1)

LOCATION:
Melton South

CLIENT:
Bild Group

PROJECT No:
1120 0383-1 (SI04)

DATE:
28/11/2022

SITE PLAN SKETCH—NOT TO SCALE



Field Density Test Results

AS1289.5.7.1

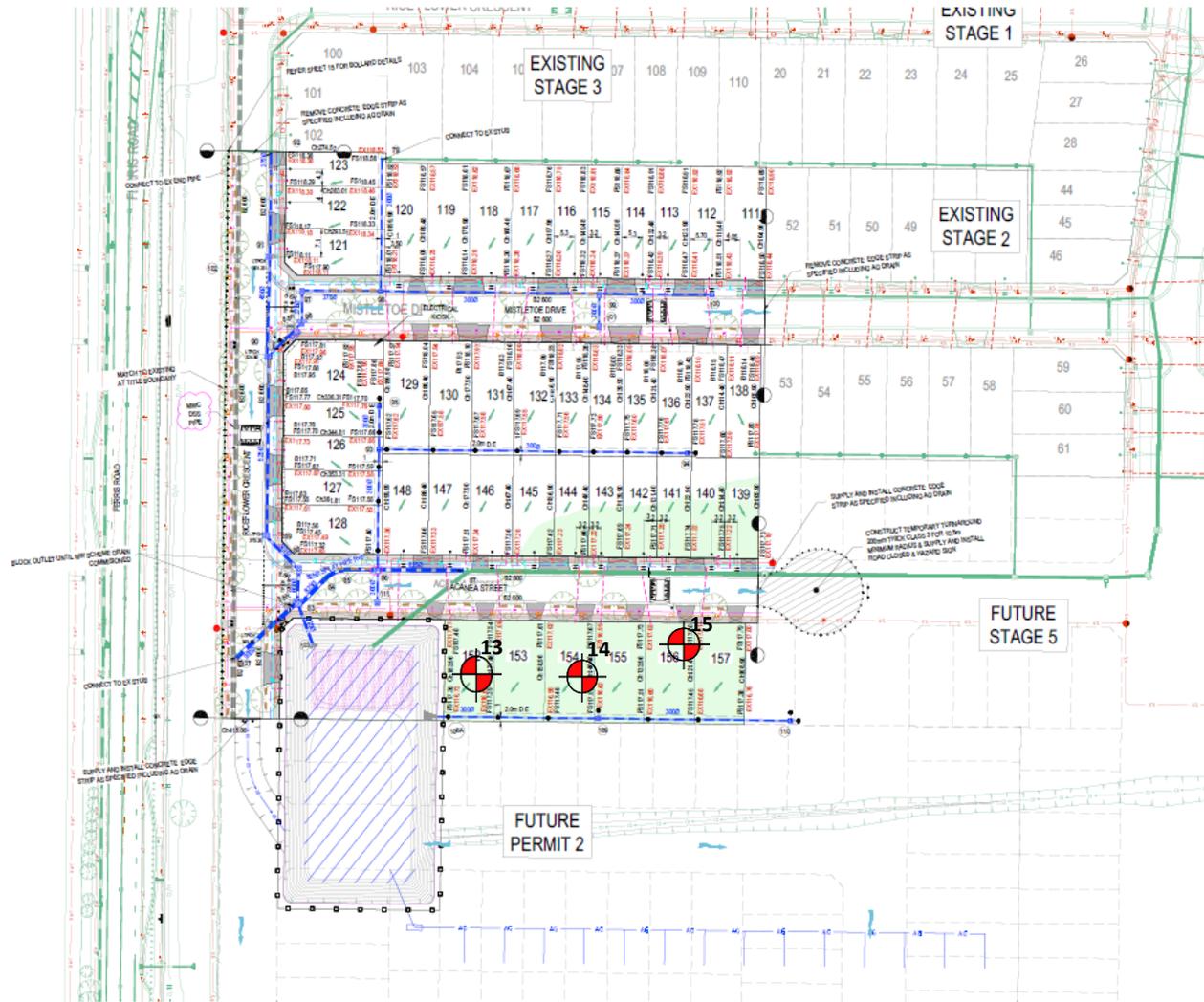
Client:	Bild Group	Job No:	BDG2533
Project:	Ellerton Estate - Stage 4 (Level 1)	Report:	5
Location:	Melton South		
Sample No	13	14	15
Date Tested	23/10/2023	23/10/2023	23/10/2023
Time Tested	AM	AM	AM
Test Location	Refer to Plan	Refer to Plan	Refer to Plan
Level/Layer	1	1	1
Layer Thickness	mm 200	mm 200	mm 200
Test Depth	mm 175	mm 175	mm 175
Field Wet Density	t/m ³ 1.87	t/m ³ 1.89	t/m ³ 1.89
Field Moisture Content	% 26.2	% 25.6	% 24.4
Material:	Imported Clay Fill	Imported Clay Fill	Imported Clay Fill
Oversize Material	WET, % 0.0	WET, % 0.0	WET, % 0.0
Sieve Size	mm 19	mm 19	mm 19
Peak Converted Wet Density	t/m ³ 1.90	t/m ³ 1.91	t/m ³ 1.92
Optimum Moisture Content	% 27	% 26.5	% 25
Moisture Ratio	% 97	% 96.5	% 97.5
Moisture Variation from OMC	% -1.0 Drier	% -1.0 Drier	% -0.5 Drier
Density Ratio	% 98.5	% 99.0	% 98.5

Specification:	98% STD	Test Selection:	N/A
Notes:	Ref : 1120 0383-1 (SI05)		
Test Method	AS1289 5.8.1, 5.7.1, 2.1.1, 1.1	Sampling Method:	AS 1289 1.2.1 6.4(b)

 <small>WORLD RECOGNISED ACCREDITATION</small>	NATA Accredited Laboratory No. 20172 Accreditation for compliance with ISO/IEC 17025 - Testing	Approved Signatory:  David Burns	Date: 13/12/2023
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Test Location



LEGEND	
	EXISTING WATER MAIN
	EXISTING 150mm DIA. WATER MAIN
	EXISTING UNDERGROUND ELECTRICITY
	EXISTING OVERHEAD 11kV & 22kV
	EXISTING OVERHEAD 6.6kV
	EXISTING GAS MAIN
	EXISTING SEWER
	EXISTING SEWER & MANHOLE
	EXISTING SEWER RISING MAIN
	EXISTING STORMWATER DRAIN & PIT
	EXISTING HOUSE DRAIN
	EXISTING SURFACE COMPOUND MINOR
	EXISTING SURFACE COMPOUND MAJOR
	EXISTING TOP OF BATTER
	EXISTING TOE OF BATTER
	EXISTING FOOTPATH
	EXISTING SURFACE LEVEL
	EXISTING GROUND LEVEL
	EXISTING TOP OF BATTER LEVEL
	EXISTING BEDDING
	EXISTING SIGNAL CABLE
	EXISTING PERMANENT SURVEY MARK
	EXISTING KERB CHANNEL
	EXISTING PAVEMENT
	EXISTING CONCRETE EDGE STRIP
	EXISTING ROAD CHANGE
	EXISTING TANGENT POINT CHANGE
	EXISTING SET-OUT POINT
	EXISTING SURFACE COMPOUND MINOR
	EXISTING SURFACE COMPOUND MAJOR
	PROPOSED WATER MAIN
	PROPOSED 150mm DIA. WATER MAIN
	PROPOSED GAS MAIN
	PROPOSED SEWER
	PROPOSED SEWER RISING MAIN
	PROPOSED STORMWATER DRAIN & PIT
	PROPOSED HOUSE DRAIN
	PROPOSED DRAINAGE INLET
	PROPOSED STORMWATER DRAIN & PIT
	PROPOSED DRIVEWAY
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED GAS & WATER CONDUIT
	PROPOSED CATCH DRAIN
	PROPOSED SMALL DRAIN
	5 YEAR FLOW ARROW
	10 YEAR FLOW ARROW
	TEMPORARY BENCH MARK (TBM)
	PROPOSED PERMANENT SURVEY MARK
	PROPOSED BOLLARD
	PROPOSED SIGN & POLE
	PROPOSED ESTATE FENCE
	PROPOSED TREE FENCING
	PROPOSED TOP OF BATTER
	PROPOSED TOE OF BATTER
	PROPOSED CHANGE OF GRADE
	PROPOSED SLEEP OR RETAINING
	PROPOSED ROCK RETAINING WALL
	EXISTING TREE TO BE RETAINED (PLANTED CANOPY)
	EXISTING TREE TO BE REMOVED
	PARKING BAY PAVED AREA
	CONCRETE PAVEMENT THRESHOLD
	CONCRETE PAVEMENT
	ROCK BEACHING
	CRUSHED ROCK TURNAROUND
	FELLING GREATER THAN 300mm
	PAVEMENT TO BE REMOVED
	PASSIVE IRRIGATION TREE & PIT

REV	AMENDMENTS	APPD	DATE
C	AMENDED AS PER COUNCIL COMMENTS	A. CHALDSLEY	01/04/22
B	AMENDED AS PER COUNCIL COMMENTS	A. CHALDSLEY	28/02/22
A	ISSUED FOR APPROVAL	A. CHALDSLEY	28/10/21

WARNING
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Elerton 171-211 Alfred Rd		STAGE 4	
CITY OF MELTON		DETAIL PLAN	
PRELIMINARY	136404RD04	DATE	23/10/2023
REV	C		

PROJECT:
Ellerton Estate – Stage 4 (Level 1)

LOCATION:
Melton South

CLIENT:
Bild Group

PROJECT No:
1120 0383-1 (SI05)

DATE:
23/10/2023

SITE PLAN SKETCH—NOT TO SCALE



Field Density Test Results

AS1289.5.7.1

Client:	Bild Group	Job No:	BDG2533
Project:	Ellerton Estate - Stage 4 (Level 1)	Report:	6
Location:	Melton South		

Sample No	16	17	18			
Date Tested	24/10/2023	24/10/2023	24/10/2023			
Time Tested	AM	AM	AM			

Test Location	Refer to Plan	Refer to Plan	Refer to Plan			
Level/Layer	2	2	3			
Layer Thickness	mm 200	mm 200	mm 200			
Test Depth	mm 175	mm 175	mm 175			
Field Wet Density	t/m ³ 1.93	t/m ³ 1.99	t/m ³ 2.00			
Field Moisture Content	% 23.4	% 20.9	% 20.4			
Material:	Imported Clay Fill	Imported Clay Fill	Imported Clay Fill			

Oversize Material	WET, %	5.8	6.8	7.1		
Sieve Size	mm	19	19	19		
Peak Converted Wet Density	t/m ³	1.94	2.00	2.01		
Optimum Moisture Content	%	24	21.5	21		

Moisture Ratio	%	97.5	97	97		
Moisture Variation from OMC	%	-0.5	-0.5	-0.5		
Density Ratio	%	98.5	98.5	99.0		

Specification:	98% STD	Test Selection:	N/A
Notes:	Ref : 1120 0383-1 (SI06)		
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

Approved Signatory:

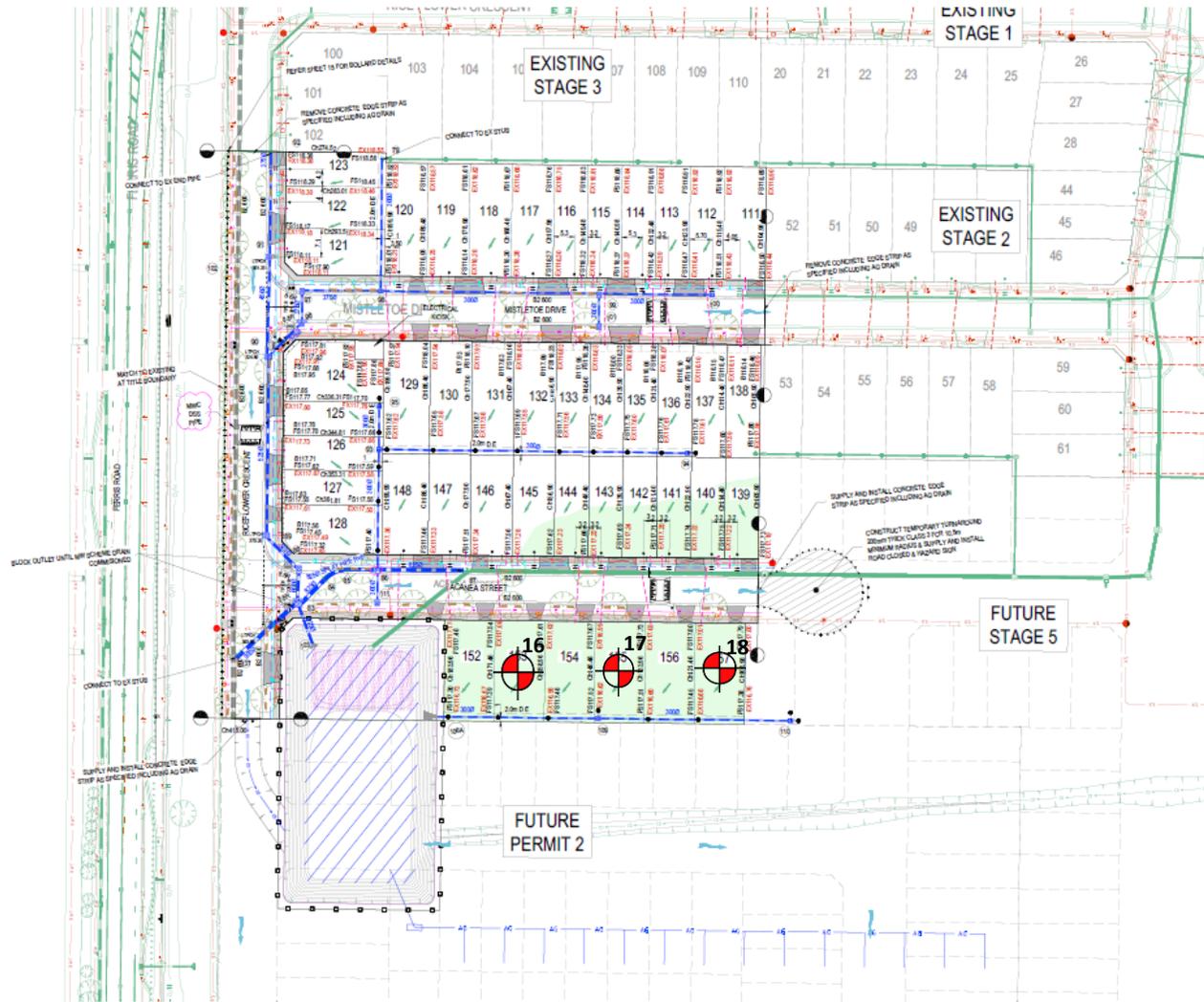


David Burns

Date: 13/12/2023



Test Location



LEGEND	
	EXISTING WATER MAIN
	EXISTING 150mm DIA. WATER MAIN
	EXISTING UNDERGROUND ELECTRICITY
	EXISTING OVERHEAD 11kV & 22kV
	EXISTING OVERHEAD 6.6kV & 11kV
	EXISTING 150mm DIA. SEWER
	EXISTING GAS MAIN
	EXISTING FENCE
	EXISTING SEWER & MANHOLE
	EXISTING SEWER RISING MAIN
	EXISTING STORMWATER DRAIN & PIT
	EXISTING HOUSE DRAIN
	EXISTING SURFACE COMPOUND MINOR
	EXISTING SURFACE COMPOUND MAJOR
	EXISTING TOP OF BATTER
	EXISTING TOE OF BATTER
	EXISTING FOOTPATH
	EXISTING SURFACE LEVEL
	EXISTING GROUND LEVEL
	EXISTING TOP OF BATTER LEVEL
	EXISTING BEDDING
	EXISTING SIGNAL CABLE
	EXISTING PERMANENT SURVEY MARKS
	ROCK BEARING
	CONCRETE PAVEMENT
	KERB CHANNEL - TYPE
	GULLY COVER
	CONCRETE EDGE STRIP
	ALIGNMENT MARKER
	ROAD CHANGE
	TANGENT POINT CHANGE
	SET-OUT POINT
	ENGINEER SURFACE COMPOUND MINOR
	ENGINEER SURFACE COMPOUND MAJOR
	PROPOSED WATER MAIN
	PROPOSED 150mm DIA. WATER MAIN
	PROPOSED 150mm DIA. SEWER
	PROPOSED GAS MAIN
	PROPOSED STREET
	PROPOSED SEWER RISING MAIN
	PROPOSED STORMWATER DRAIN & PIT
	PROPOSED HOUSE DRAIN
	PROPOSED DRAINAGE INLET
	150mm DIA. STORMWATER DRAIN & PIT
	PIT NUMBER
	DRAINAGE OFFSET
	PROPOSED FOOTPATH
	PROPOSED DRIVEWAY
	PROPOSED INDUSTRIAL DRIVEWAY
	GAS & WATER CONDUIT
	PROPOSED CATCH DRAIN
	PROPOSED 150mm DIA. DRAIN
	5 YEAR FLOW ARROW
	100 YEAR HEAD FLOW ARROW
	TEMPORARY BENCH MARK (TBM)
	PROPOSED PERMANENT SURVEY MARK
	PROPOSED BOLLARD
	PROPOSED SIGN & POLE
	PROPOSED ESTATE FENCE
	PROPOSED TREE FENCING
	PROPOSED TOP OF BATTER
	PROPOSED TOE OF BATTER
	ROAD CHANGE OF GRADE
	PROPOSED SLEEP OR RETAINING
	PROPOSED ROCK RETAINING WALL
	EXISTING TREE TO BE RETAINED (PLANTED CANOPY)
	EXISTING TREE TO BE REMOVED
	PARKING BAY/PAVED AREA
	CONCRETE PAVEMENT THRESHOLD
	CONCRETE PAVEMENT
	ROCK BEARING
	CRUSHED ROCK TURNAROUND
	FELLING GREATER THAN 300mm
	PAVEMENT TO BE REMOVED
	PASSIVE IRRIGATION TREE & PIT

REV.	AMENDMENTS	APPD.	DATE
C	AMENDED AS PER COUNCIL COMMENTS	A. CHALDSLEY	01/04/23
B	AMENDED AS PER COUNCIL COMMENTS	A. CHALDSLEY	28/03/23
A	ISSUED FOR APPROVAL	A. CHALDSLEY	28/10/21

WARNING
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Elerton 171-211 Alfred Rd
STAGE 4
CITY OF MELTON
DETAIL PLAN

PRELIMINARY 136404RD04

PROJECT:
Ellerton Estate – Stage 4 (Level 1)

LOCATION:
Melton South

CLIENT:
Bild Group

PROJECT No:
1120 0383-1 (SI06)

DATE:
24/10/2023

SITE PLAN SKETCH—NOT TO SCALE



Field Density Test Results

AS1289.5.7.1

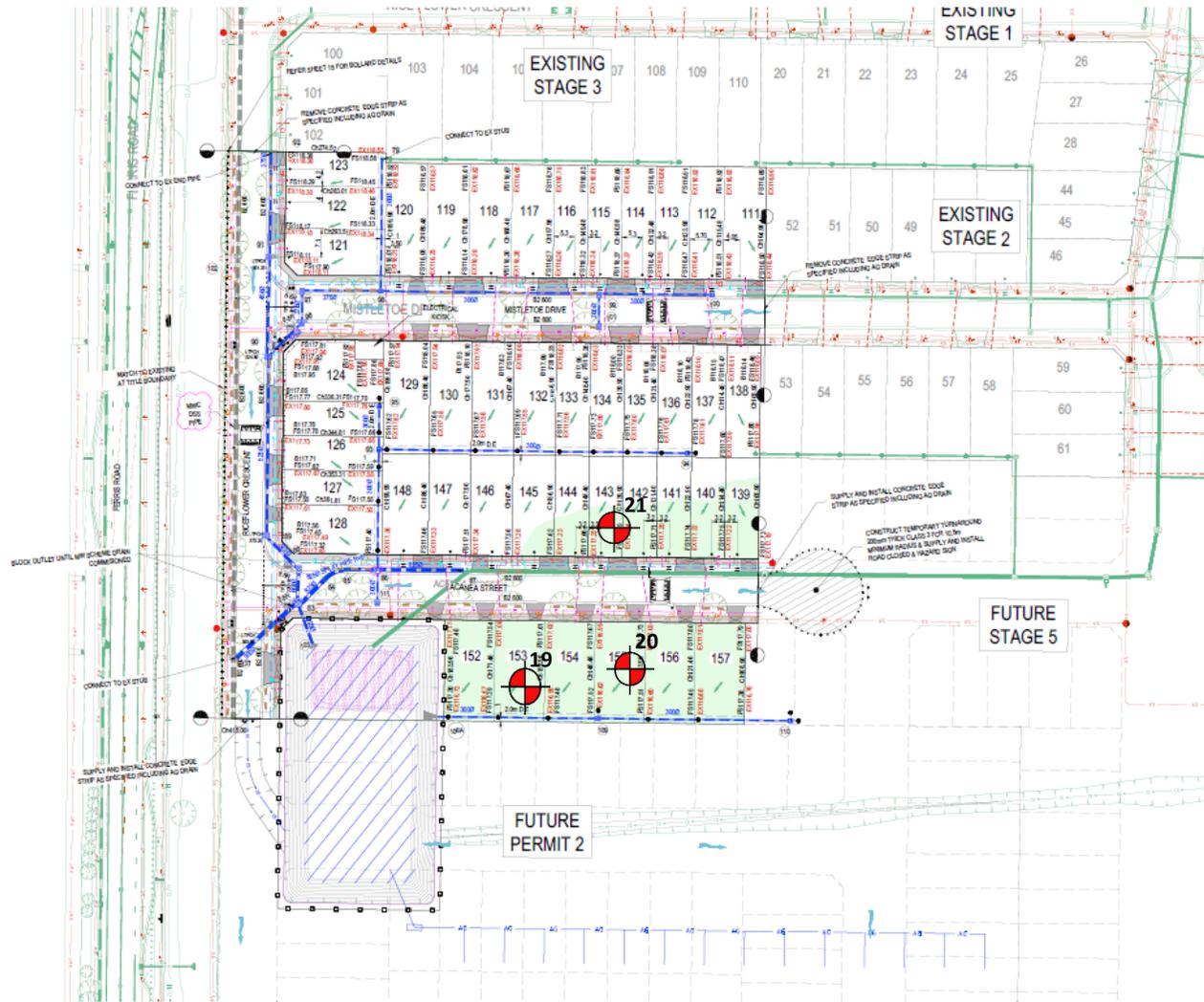
Client:	Bild Group	Job No:	BDG2533
Project:	Ellerton Estate - Stage 4 (Level 1)	Report:	7
Location:	Melton South		
Sample No	19	20	21
Date Tested	25/10/2023	25/10/2023	25/10/2023
Time Tested	AM	AM	AM
Test Location	Refer to Plan	Refer to Plan	Refer to Plan
Level/Layer	FSL	FSL	FSL
Layer Thickness	mm 200	mm 200	mm 200
Test Depth	mm 175	mm 175	mm 175
Field Wet Density	t/m ³ 1.99	t/m ³ 1.96	t/m ³ 1.94
Field Moisture Content	% 21.3	% 23.2	% 24.4
Material:	Imported Clay Fill	Imported Clay Fill	Imported Clay Fill
Oversize Material	WET, % 6.3	WET, % 5.8	WET, % 5.5
Sieve Size	mm 19	mm 19	mm 19
Peak Converted Wet Density	t/m ³ 2.00	t/m ³ 1.97	t/m ³ 1.95
Optimum Moisture Content	% 22	% 24	% 25
Moisture Ratio	% 97	% 96.5	% 97.5
Moisture Variation from OMC	% -1.0 Drier	% -0.5 Drier	% -0.5 Drier
Density Ratio	% 98.5	% 98.5	% 99.0

Specification:	98% STD	Test Selection:	N/A
Notes:	Ref : 1120 0383-1 (SI07)		
Test Method	AS1289 5.8.1, 5.7.1, 2.1.1, 1.1	Sampling Method:	AS 1289 1.2.1 6.4(b)

 <small>WORLD RECOGNISED ACCREDITATION</small>	NATA Accredited Laboratory No. 20172 Accreditation for compliance with ISO/IEC 17025 - Testing	Approved Signatory:  David Burns	Date: 13/12/2023
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Test Location



LEGEND	
	EXISTING WATER MAIN
	EXISTING 150mm DIA. WATER MAIN
	EXISTING UNDERGROUND ELECTRICITY
	EXISTING OVERHEAD 11kV & 22kV
	EXISTING OVERHEAD 6.6kV & 11kV
	EXISTING OPTIC FIBRE
	EXISTING GAS MAIN
	EXISTING SEWER
	EXISTING SEWER & MANHOLE
	EXISTING SEWER RISING MAIN
	EXISTING STORMWATER DRAIN & PIT
	EXISTING HOUSE DRAIN
	EXISTING SURFACE COMPOUND MINOR
	EXISTING SURFACE COMPOUND MAJOR
	EXISTING TOP OF BATTER
	EXISTING TOE OF BATTER
	EXISTING FOOTPATH
	EXISTING SURFACE LEVEL
	EXISTING GROUND LEVEL
	EXISTING TOP OF BATTER LEVEL
	EXISTING BUILDING
	EXISTING SIGNAL POLE
	EXISTING PERMANENT SURVEY MARK
	ROCK BEARING
	LOT BOUNDARY
	EASEMENT
	KERB CHANNEL - TYPE
	GULLY PAVEMENT
	CONCRETE EDGE STRIP
	ALIGNMENT MARKER
	ROAD CHANGE
	TANGENT POINT CHANGE
	SET-OUT POINT
	ENGINEER SURFACE COMPOUND MINOR
	ENGINEER SURFACE COMPOUND MAJOR
	PROPOSED WATER MAIN
	PROPOSED 150mm DIA. WATER MAIN
	PROPOSED 110mm DIA. WATER MAIN
	PROPOSED 75mm DIA. WATER MAIN
	PROPOSED GAS MAIN
	PROPOSED SEWER
	PROPOSED SEWER RISING MAIN
	PROPOSED STORMWATER DRAIN & PIT
	PROPOSED HOUSE DRAIN
	PROPOSED DRAINAGE INLET
	40mm DIA. DRAIN & PIT
	PIT NUMBER
	DRAINAGE OFFSET
	PROPOSED FOOTPATH
	PROPOSED DRIVEWAY
	PROPOSED INDUSTRIAL DRIVEWAY
	GAS & WATER CONDUIT
	PROPOSED CATCH DRAIN
	PROPOSED SILT & DRAIN
	5 YEAR FLOW ARROW
	10 YEAR FLOW ARROW
	TEMPORARY BENCH MARK (TBM)
	PROPOSED PERMANENT SURVEY MARK
	PROPOSED BOLLARD
	PROPOSED SIGN & POLE
	PROPOSED ESTATE FENCE
	PROPOSED TREE FENCING
	PROPOSED TOP OF BATTER
	PROPOSED TOE OF BATTER
	ROAD CHANGE OF GRADE
	PROPOSED SLEEP OR RETAINING
	PROPOSED ROCK RETAINING WALL
	EXISTING TREE TO BE RETAINED (PLANTED CANOPY)
	EXISTING TREE TO BE REMOVED
	PARKING BAY/PAVED AREA
	CONCRETE PAVEMENT THRESHOLD
	CONCRETE PAVEMENT
	ROCK BEACHING
	CRUSHED ROCK TURNAROUND
	FELLING GREATER THAN 300mm
	PAVEMENT TO BE REMOVED
	PASSIVE IRRIGATION TREE & PIT

REV	AMENDMENTS	APPD	DATE
C	AMENDED AS PER COUNCIL COMMENTS	A. CHALDSLEY	01/04/23
B	AMENDED AS PER COUNCIL COMMENTS	A. CHALDSLEY	28/03/23
A	ISSUED FOR APPROVAL	A. CHALDSLEY	28/10/21

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVIDED ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.



Elerton 171-211 Alfred Rd
STAGE 4
CITY OF MELTON
DETAIL PLAN
PRELIMINARY 136404RD04
REV: C

PROJECT:
Ellerton Estate – Stage 4 (Level 1)

LOCATION:
Melton South

CLIENT:
Bild Group

PROJECT No:
1120 0383-1 (SI07)

DATE:
25/10/2023

SITE PLAN SKETCH—NOT TO SCALE

