



LEVEL 2 CERTIFICATION

17 Lots at Highland Court,
Pie Creek
Lots 9-25, on SP323061

CONTENTS

CERTIFICATION LETTER..... 1
LIMITATIONS.....2
TEST RESULTS.....3-22
TEST LOCATIONS PLANS 1803 SHEETS S5B-S10 TO S5B-S13 INCLUSIVE.....23-26

2nd June 2021

File No 1803

To: Roberts Bros. Pty Ltd
(by email)

LEVEL 2 CERTIFICATION

**17 Lots at Highlander Court,
Pie Creek
Lots 9-25, on SP323061**

This letter provides Level 2 certification to AS3798-2007 'Guidelines on earthworks for commercial and residential developments' and includes the results of testing conducted during filling earthworks on proposed lots Lots 9-25, on SP323061.

Roberts Brothers Pty Ltd personnel and sub-contractors undertook the cut to fill and compaction using existing site material to create house sites.

Inspections of surface stripping (to remove organic topsoil), removal of unsuitable materials and subgrade proof rolling prior to filling were completed.

Determination of field density of compacted fill in accordance with AS1289 was completed by Douglas Partners Pty Ltd as attached. The compaction tests show that results were above the required 95% Standard Compaction. Test locations are shown on the attached plans 1803 sheet numbers S5B-S10 to S5A-S13 inclusive Revision 0.

This certification only provides an assurance of the density of the fill tested, and suitability of the stripped surface for placement of that fill. This certification does not address any other issues that may be relevant to foundation and building construction.

Please refer to report limitations attached, the Client in this instance is Roberts Brothers Pty Ltd.

Regards,



A Haynes BE Civil (Hons) RPEQ MIEAust CPEng

LIMITATIONS

This report is provided for the sole use by the Client and its professional advisers. No responsibility whatsoever for the contents of this report will be accepted to any person other than the Client. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, is the responsibility of such third parties. Haynes Consulting Engineers accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Haynes Consulting Engineers did not perform a complete assessment of all possible conditions or circumstances that may exist at the site referenced in the report. If a service is not expressly indicated, do not assume it has been provided. If a matter is not addressed, do not assume that any determination has been made by Haynes Consulting Engineers in regards to it.

Conditions may exist which were undetectable given that economic and time constraints limit the practical extent of investigation. Variations in conditions may occur between investigation locations, and there may be special conditions pertaining to the site which have not been revealed by the investigation and which have not therefore been taken into account in the report.

Where variations exist on site, additional studies and actions may be required. Haynes Consulting Engineers's opinions are based upon information that existed at the time that the works were performed. The passage of time, man-made or natural events, may alter the site conditions. It is understood that the Services undertaken allowed Haynes Consulting Engineers to form an opinion of the actual conditions of the site at the time the site was visited and cannot be used to assess the effect of any subsequent changes in the quality of the site, or its surroundings, or any laws or regulations.

Any assessments made in this report are based on the conditions indicated from published sources and the findings of the investigation described. Actual subsurface conditions may differ from those indicated in the report (e.g. between boreholes or test pits). No warranty is included, either express or implied, that the actual conditions will conform exactly to the assessments contained in this report.

Where data supplied by the client or other external sources, including previous site investigation data, have been used, it has been assumed that the information is correct unless otherwise stated. No responsibility is accepted by Haynes Consulting Engineers for incomplete or inaccurate data supplied by others.

Material Test Report



Douglas Partners Pty Ltd
Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-3
Issue Number: 1
Date Issued: 09/10/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 10687
Date Sampled: 24/09/2020
Dates Tested: 24/09/2020 - 02/10/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Lot Number: 9
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	SS-10687A	SS-10687B	
Date Tested	24/09/2020	24/09/2020	
Time Tested	11:40	11:45	
Test Request #/Location	Lot 9	Lot 9	
Easting	461864	461867	
Northing	7096757	7096758	
Elevation (m)	0.3 < F.L	0.8 < F.L	
Soil Description	Sandy Clay	Sandy Clay	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	2.04	1.97	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	1.97	1.95	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	1.0	0.5	
Adjusted Moisture Variation %	**	**	
Half Density Ratio (%)	103.0	101.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Geotechnics | Environment | Groundwater

Douglas Partners Pty Ltd

Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-4
Issue Number: 1
Date Issued: 09/10/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 10688
Date Sampled: 24/09/2020
Dates Tested: 24/09/2020 - 02/10/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Lot Number: 25
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-10688A	SS-10688B	
Date Tested	24/09/2020	24/09/2020	
Time Tested	11:30	11:35	
Test Request #/Location	Lot 25	Lot 25	
Easting	461823	461833	
Northing	7096687	7096684	
Elevation (m)	0.3 < F.L.	1.2 < F.L.	
Soil Description	Sandy Clay	Sandy Clay	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	1.82	1.78	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	1.85	1.81	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	2.0	1.5	
Adjusted Moisture Variation %	**	**	
Half Density Ratio (%)	98.5	98.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Douglas Partners Pty Ltd
Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: Shae.Harry@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Shae Harry
Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-10
Issue Number: 1
Date Issued: 11/11/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11095
Date Sampled: 02/11/2020
Dates Tested: 02/11/2020 - 03/11/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	SS-11095A	SS-11095B	
Date Tested	02/11/2020	02/11/2020	
Time Tested	08:00	08:05	
Test Request #/Location	Bulk Earthworks Lot 18	Bulk Earthworks Lot 18	
Easting	461535	461526	
Northing	7096511	7096500	
Elevation (m)	0.6 < F.L.	0.3 < F.L.	
Soil Description	Clayey Sand	Clayey Sand	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	1.90	2.05	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	1.98	1.99	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	3.0	0.5	
Adjusted Moisture Variation %	**	**	
Half Density Ratio (%)	96.0	103.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Approved Signatory: Shae Harry
Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-11
Issue Number: 1
Date Issued: 11/11/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11096
Date Sampled: 02/11/2020
Dates Tested: 02/11/2020 - 03/11/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	SS-11096A	SS-11096B	
Date Tested	02/11/2020	02/11/2020	
Time Tested	09:30	09:35	
Test Request #/Location	Bulk Earthworks Lot 24	Bulk Earthworks Lot 24	
Easting	461762	461778	
Northing	7096641	7096631	
Elevation (m)	0.7 < F.L	1.3 < F.L	
Soil Description	Clayey Sand	Clayey Sand	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	1.94	1.88	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	1.90	1.92	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	-1.0	0.0	
Adjusted Moisture Variation %	**	**	
Half Density Ratio (%)	102.0	98.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Geotechnics | Environment | Groundwater

Douglas Partners Pty Ltd

Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-12
Issue Number: 1
Date Issued: 26/11/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11184
Date Sampled: 09/11/2020
Dates Tested: 10/11/2020 - 12/11/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Lot Number: 13
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-11184A	SS-11184B	
Date Tested	09/11/2020	09/11/2020	
Time Tested	10:20	10:30	
Test Request #/Location	Lot 13	Lot 13	
Easting	461735	461732	
Northing	70966760	7096681	
Elevation (m)	0.8m < F.L.	0.3m < F.L.	
Soil Description	Sandy Clay	Sandy Clay	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	2.01	2.04	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	2.00	1.97	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	3.5	2.5	
Adjusted Moisture Variation %	**	**	
Half Density Ratio (%)	100.5	103.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Approved Signatory: Martin Cook
Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-13
Issue Number: 1
Date Issued: 26/11/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11185
Date Sampled: 09/11/2020
Dates Tested: 10/11/2020 - 13/11/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Lot Number: 24
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-11185A		
Date Tested	09/11/2020		
Time Tested	10:45		
Test Request #/Location	Lot 24		
Easting	461783		
Northing	7096637		
Layer / Reduced Level	0.2m < F.L		
Soil Description	Sandy Clay		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m ³	2.18		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	2.18		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	3.5		
Adjusted Moisture Variation %	**		
Half Density Ratio (%)	100.0		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: 681742.00-14
Issue Number: 1
Date Issued: 26/11/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11186
Date Sampled: 09/11/2020
Dates Tested: 10/11/2020 - 13/11/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Dry Density Ratio
Lot Number: 15
Material Source: Onsite

Douglas Partners Pty Ltd
Sunshine Coast Laboratory
1/28 Kessling Avenue Kunda Park QLD 4556
Phone: (07) 5351 0400
Fax: (07) 5351 0499
Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager
NATA Accredited Laboratory Number: 828

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-11186A		
Date Tested	09/11/2020		
Time Tested	10:55		
Test Request #/Location	Lot 15		
Easting	461653		
Northing	7096618		
Elevation (m)	F.L.		
Soil Description	Sandy Clay		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m ³	1.90		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	1.93		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	1.5		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	99.0		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: 681742.00-17
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Location Error
Date Issued: 15/06/2021
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy QLD 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11263
Date Sampled: 13/11/2020
Dates Tested: 14/11/2020 - 19/11/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Location: Bulk Earthworks
Lot Number: 23
Material Source: Onsite

Douglas Partners Pty Ltd
Sunshine Coast Laboratory
1/28 Kessling Avenue Kunda Park QLD 4556
Phone: (07) 5351 0400
Fax: (07) 5351 0499
Email: Shae.Harry@douglaspartners.com.au



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Shae Harry
Laboratory Manager
Laboratory Accreditation Number: 828

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	SS-11263A	SS-11263B	SS-11263C
Date Tested	13/11/2020	13/11/2020	13/11/2020
Time Tested	08:05	08:10	08:15
Test Request #/Location	Lot 23	Lot 23	Lot 23
Easting	461740	461749	461745
Northing	7096583	7096592	7096587
Elevation (m)	1.5 < F.L	1.0 < F.L	0.3 < F.L
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.01	1.98	2.07
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	2.07	2.04	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	3.0	3.5	3.0
Adjusted Moisture Variation %	**	**	**
Half Density Ratio (%)	97.0	97.0	102.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report



Geotechnics | Environment | Groundwater

Douglas Partners Pty Ltd

Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-18
Issue Number: 1
Date Issued: 26/11/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11264
Date Sampled: 13/11/2020
Dates Tested: 14/11/2020 - 19/11/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Hilf Density Ratio
Lot Number: 21
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-11264A		
Date Tested	13/11/2020		
Time Tested	08:45		
Test Request #/Location	Lot 21		
Easting	461676		
Northing	7096532		
Elevation (m)	1.7 < F.L		
Soil Description	Sandy Gravel		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m ³	1.86		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	1.87		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	0.5		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	99.5		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Douglas Partners Pty Ltd
Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-19
Issue Number: 1
Date Issued: 26/11/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11265
Date Sampled: 13/11/2020
Dates Tested: 14/11/2020 - 19/11/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Lot Number: 20
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-11265A		
Date Tested	13/11/2020		
Time Tested	08:50		
Test Request #/Location	Lot 20		
Easting	461627		
Northing	7096507		
Elevation (m)	1.9 < F.L		
Soil Description	Sandy Clay		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m ³	1.80		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	1.79		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	2.5		
Adjusted Moisture Variation %	**		
Half Density Ratio (%)	100.0		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Douglas Partners Pty Ltd
Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-20
Issue Number: 1
Date Issued: 26/11/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11266
Date Sampled: 13/11/2020
Dates Tested: 14/11/2020 - 19/11/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Hilf Density Ratio
Lot Number: 16
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	SS-11266A		
Date Tested	13/11/2020		
Time Tested	09:05		
Test Request #/Location	Lot 16		
Easting	461596		
Northing	7096586		
Elevation (m)	F.L		
Soil Description	Sandy Clay		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m ³	1.86		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	1.82		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	-0.5		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	102.0		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Geotechnics | Environment | Groundwater

Douglas Partners Pty Ltd

Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-22
Issue Number: 1
Date Issued: 10/12/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11423
Date Sampled: 26/11/2020
Dates Tested: 26/11/2020 - 02/12/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Lot Number: 12
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-11423A	SS-11423B	
Date Tested	26/11/2020	26/11/2020	
Time Tested	12:15	12:19	
Test Request #/Location	Lot 12	Lot 12	
Easting	5262439	5252975	
Northing	2241477	2239560	
Elevation (m)	0.3 < F.L	0.7 < F.L	
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	1.95	1.99	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	1.88	1.92	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	4.5	2.5	
Adjusted Moisture Variation %	**	**	
Half Density Ratio (%)	104.0	103.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Douglas Partners Pty Ltd

Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-23
Issue Number: 1
Date Issued: 10/12/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11424
Date Sampled: 26/11/2020
Dates Tested: 26/11/2020 - 02/12/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Lot Number: 14
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-11424A		
Date Tested	26/11/2020		
Time Tested	12:27		
Test Request #/Location	Lot 14		
Easting	5157202		
Northing	2195485		
Elevation (m)	0.3 < F.L		
Soil Description	Sandy Gravelly Clay		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m ³	2.06		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	2.11		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	0.5		
Adjusted Moisture Variation %	**		
Half Density Ratio (%)	97.5		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: 681742.00-24
Issue Number: 1
Date Issued: 10/12/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11425
Date Sampled: 26/11/2020
Dates Tested: 26/11/2020 - 03/12/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Lot Number: 10
Material Source: Onsite

Douglas Partners Pty Ltd
Sunshine Coast Laboratory
1/28 Kessling Avenue Kunda Park QLD 4556
Phone: (07) 5351 0400
Fax: (07) 5351 0499
Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager
NATA Accredited Laboratory Number: 828

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-11425A	SS-11425B	
Date Tested	26/11/2020	26/11/2020	
Time Tested	12:34	12:38	
Test Request #/Location	Lot 10	Lot 10	
Easting	5310262	5325263	
Northing	2302022	2303494	
Elevation (m)	0.3 < F.L	0.7 < F.L	
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	4	
Field Wet Density (FWD) t/m ³	1.98	1.97	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	1.93	**	
Adjusted Peak Converted Wet Density t/m ³	**	2.07	
Moisture Variation (Wv) %	3.5	**	
Adjusted Moisture Variation %	**	2.5	
Half Density Ratio (%)	102.5	95.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Douglas Partners Pty Ltd

Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-25
Issue Number: 1
Date Issued: 10/12/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11426
Date Sampled: 26/11/2020
Dates Tested: 26/11/2020 - 03/12/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Lot Number: 21
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-11426A	SS-11426B	
Date Tested	26/11/2020	26/11/2020	
Time Tested	12:44	12:49	
Test Request #/Location	Lot 21	Lot 21	
Easting	5042020	5037333	
Northing	2184949	2180338	
Elevation (m)	1.0 < F.L	0.3 < F.L	
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	2	
Field Wet Density (FWD) t/m ³	1.99	2.03	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	2.03	**	
Adjusted Peak Converted Wet Density t/m ³	**	1.94	
Moisture Variation (Wv) %	6.0	**	
Adjusted Moisture Variation %	**	6.5	
Half Density Ratio (%)	98.0	104.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Approved Signatory: Martin Cook
Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-26
Issue Number: 1
Date Issued: 10/12/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11428
Date Sampled: 26/11/2020
Dates Tested: 26/11/2020 - 02/12/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Lot Number: 20
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	SS-11428A	SS-11428B	
Date Tested	26/11/2020	26/11/2020	
Time Tested	12:58	13:02	
Test Request #/Location	Lot 20	Lot 20	
Easting	5008642	5004256	
Northing	2144235	2149998	
Elevation (m)	0.3 < F.L	1.1 < F.L	
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	3	
Field Wet Density (FWD) t/m ³	2.09	2.00	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	1.98	**	
Adjusted Peak Converted Wet Density t/m ³	**	1.97	
Moisture Variation (Wv) %	5.0	**	
Adjusted Moisture Variation %	**	5.0	
Half Density Ratio (%)	105.5	101.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Douglas Partners Pty Ltd

Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Report Number: 681742.00-27
Issue Number: 1
Date Issued: 10/12/2020
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11429
Date Sampled: 26/11/2020
Dates Tested: 26/11/2020 - 03/12/2020
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Lot Number: 17
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-11429A		
Date Tested	26/11/2020		
Time Tested	13:09		
Test Request #/Location	Lot 17		
Easting	5059688		
Northing	2089607		
Elevation (m)	F.L		
Soil Description	Silty Gravelly Clay		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m ³	2.05		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	2.08		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	2.5		
Adjusted Moisture Variation %	**		
Half Density Ratio (%)	98.5		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Douglas Partners Pty Ltd
Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: Shae.Harry@douglaspartners.com.au



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Shae Harry
Laboratory Manager

Laboratory Accreditation Number: 828

Report Number: 681742.00-33
Issue Number: 1
Date Issued: 18/02/2021
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11956
Date Sampled: 08/02/2021
Dates Tested: 09/02/2021 - 11/02/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	SS-11956A	SS-11956B	
Date Tested	08/02/2021	08/02/2021	
Time Tested	02:45	02:50	
Test Request #/Location	Bulk Earthworks Lot 19	Bulk Earthworks Lot 19	
Easting	461550	461533	
Northing	7096456	7096449	
Layer / Reduced Level	1.0 < F.L.	0.3 < F.L.	
Soil Description	**	**	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	2.10	2.21	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	2.01	2.09	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	1.0	0.5	
Adjusted Moisture Variation %	**	**	
Half Density Ratio (%)	104.5	105.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: 681742.00-35
Issue Number: 1
Date Issued: 18/02/2021
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11958
Date Sampled: 08/02/2021
Dates Tested: 09/02/2021 - 12/02/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Material Source: Onsite

Douglas Partners Pty Ltd
Sunshine Coast Laboratory
1/28 Kessling Avenue Kunda Park QLD 4556
Phone: (07) 5351 0400
Fax: (07) 5351 0499
Email: Shae.Harry@douglaspartners.com.au



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Shae Harry
Laboratory Manager
Laboratory Accreditation Number: 828

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	SS-11958B		
Date Tested	08/02/2021		
Time Tested	03:36		
Test Request #/Location	Bulk Earthworks Lot 11		
Easting	461753		
Northing	7096835		
Layer / Reduced Level	0.3 < F.L.		
Soil Description	**		
Test Depth (mm)	150		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m ³	1.75		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	1.81		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	-0.5		
Adjusted Moisture Variation %	**		
Half Density Ratio (%)	96.5		
Compaction Method	Standard		
Report Remarks	**		

Moisture Variation Note:

Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report



Report Number: 681742.00-34
Issue Number: 1
Date Issued: 18/02/2021
Client: Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
Contact: David Roberts
Project Number: 681742.00
Project Name: Proposed Subdivision
Project Location: Greendale, Stage 5, Pie Creek
Work Request: 11957
Date Sampled: 08/02/2021
Dates Tested: 09/02/2021 - 12/02/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: Minimum 95% Standard Half Density Ratio
Material Source: Onsite

Douglas Partners Pty Ltd
Sunshine Coast Laboratory
1/28 Kessling Avenue Kunda Park QLD 4556
Phone: (07) 5351 0400
Fax: (07) 5351 0499
Email: Shae.Harry@douglaspartners.com.au



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Shae Harry
Laboratory Manager

Laboratory Accreditation Number: 828

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-11957A	SS-11957B	SS-11957C
Date Tested	08/02/2021	08/02/2021	08/02/2021
Time Tested	03:07	03:12	03:20
Test Request #/Location	Bulk Earthworks Lot 22	Bulk Earthworks Lot 22	Bulk Earthworks Lot 22
Easting	461705	461704	461725
Northing	7096568	7096552	7096562
Layer / Reduced Level	0.3 < F.L.	1.0 < F.L.	1.5 < F.L.
Soil Description	**	**	**
Test Depth (mm)	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m ³	2.05	2.02	2.02
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	1.97	2.01	1.95
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.0	-0.5	-0.5
Adjusted Moisture Variation %	**	**	**
Half Density Ratio (%)	104.0	100.5	103.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

NOTES:

HOUSE SITE ALLOTMENT PROFILING ON 24 LOTS (4 LOTS COMPLETED WITH STAGE 4): LEVEL PAD AND 1:4 BATTERS. REFER TO BULK EARTHWORKS APPROVED PLANS OPW2020-1670. TEST FILL TO LEVEL 2 AS3798.

0 20 40 60m

Scale 1:2000 @A3



PLAN INDEX

1803-S5B-10 AS CONSTRUCTED OVERALL PLAN
1803-S5B-11 AS CONSTRUCTED SURVEY LAYOUTS
1803-S5B-12 AS CONSTRUCTED SURVEY LAYOUTS
1803-S5B-12 AS CONSTRUCTED SURVEY LAYOUTS

CERTIFIED BY:

RPEQ No.: 13201 (Allister Haynes)
DATE: 2 / 6 / 21

This drawing is an accurate representation of the works as-constructed. All the locations and levels shown on this plan have been provided by a Surveyor as defined in the Surveyors Act 2003. I hereby accept responsibility for the as-constructed information shown on this plan.

LEGEND

- STAGE 5B EXTENT
- PROPOSED ROAD KERB CONSTRUCTION
- PROPOSED EASEMENT
- Q100 OVERLAND FLOW LEVEL (NOTE THIS IS NOT A CREEK FLOOD EVENT). REFER TO OPW2020-1670 PLANS FOR CALCULATIONS AND DETAILS.
- EXISTING CONTOURS
- EXISTING TELSTRA FROM DBYD (CONTRACTOR TO HAVE LOCATED PRIOR TO WORKS)
- EXISTING UNDERGROUND ELECTRICAL FROM DBYD (CONTRACTOR TO HAVE LOCATED PRIOR TO WORKS)

A3

0 2-6-20 AS CONSTRUCTED
Rv DATE REVISIONS

ATH
APPR.

PSM No 177674
(AHD) RL 89.974
SURVEYED MURRAY & ASSOC

HAYNES
CONSULTING
ENGINEERS

HAYNES CONSULTING ENGINEERS
ABN 53 613 630 078
PO BOX 549 NOOSA HEADS QLD 4567
(0432) 784 150

GREENDALE STAGE 5B

LOTS 9-25 SP323061, BULK EARTHWORKS
SURVEYED BY MURRAY & ASSOC, HIGHLAND COURT, PIE CREEK
AS CONSTRUCTED OVERALL PLAN

1803

Sheet No. - Revision No.
S5B-S10 0

NOTES:

HOUSE SITE ALLOTMENT PROFILING ON 24 LOTS (4 LOTS COMPLETED WITH STAGE 4): LEVEL PAD AND 1:4 BATTERS. REFER TO BULK EARTHWORKS APPROVED PLANS OPW2020-1670. TEST FILL TO LEVEL 2 AS3798.

0 10 20 30m

Scale 1:1000 @A3



CERTIFIED BY:

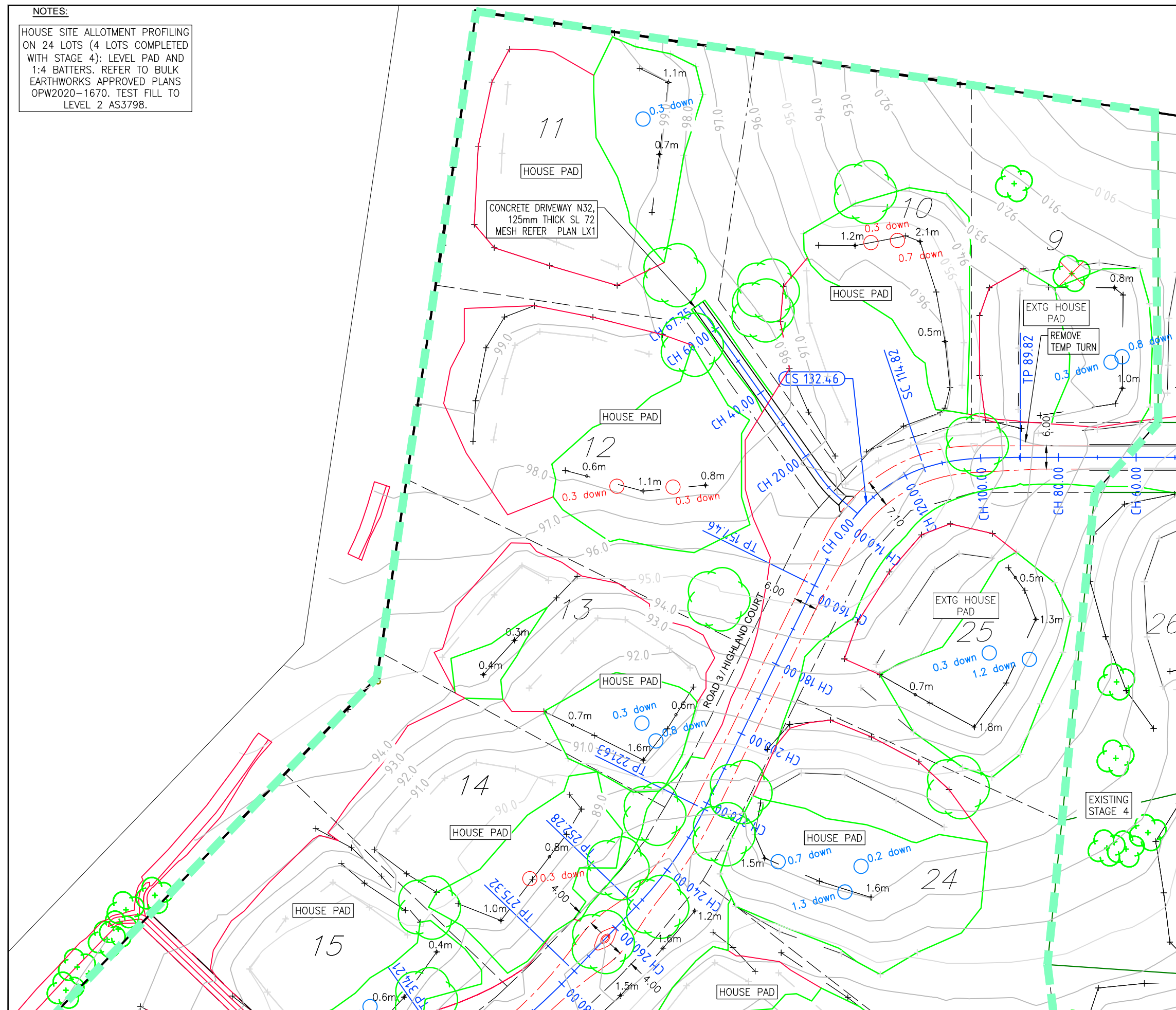
RPEQ No.:

13201 (Allister Haynes)

DATE:

2 / 6 / 21

This drawing is an accurate representation of the works as-constructed. All the locations and levels shown on this plan have been provided by a Surveyor as defined in the Surveyors Act 2003. I hereby accept responsibility for the as-constructed information shown on this plan.



LEGEND

- STAGE 5B EXTENT
- PROPOSED ROAD KERB CONSTRUCTION
- PROPOSED BOUNDARY
- 2.6m_o FILL DEPTH FROM NATURAL SURFACE
- CUT BATTER EXTENT
- FILL BATTER EXTENT
- HOUSE PAD PROPOSED HOUSE PAD, REFER TO BULK EWKS PLANS AND APPROVAL FOR DETAILS.
- EXTG HOUSE PAD EXISTING HOUSE PADS COMPLETED AS PART OF STAGE 4. PADS ARE GRASSED AND STABILIZED.
- Q100 OVERLAND FLOW LEVEL (NOTE THIS IS NOT A CREEK FLOOD EVENT). REFER TO OPW2020-1670 PLANS FOR CALCULATIONS AND DETAILS.
- PROPOSED EASEMENT
- X EXISTING TREE/TREE TO BE REMOVED
- ASCON CONTOURS 1m INTERVAL
- O APPROXIMATE ALLOTMENT FILL COMPACTION TEST LOCATION AND DEPTH BELOW FINISHED LEVEL
- O ALLOTMENT FILL COMPACTION TEST AND DEPTH BELOW FINISHED LEVEL (LOCATION ESTIMATED ONLY)
- X TELSTRA PIT, LIGHTS AND CROSSING MARKERS PICKED UP BY SURVEY, SERVICE CONDUIT LOCATION IS APPROXIMATE AND ALL FUTURE WORKS MUST HAVE SERVICES IDENTIFIED BY ACCREDITED SERVICES LOCATOR.

A3

0 2-6-20 AS CONSTRUCTED
Rv DATE REVISIONS

PSM No 177674
(AHD) RL 89.974
SURVEYED MURRAY & ASSOC

ATH
APPR.

HAYNES
CONSULTING
ENGINEERS

HAYNES CONSULTING ENGINEERS
ABN 53 613 630 078
PO BOX 549 NOOSA HEADS QLD 4567
(0432) 784 150

GREENDALE STAGE 5B

LOTS 9-25 SP323061, BULK EARTHWORKS
SURVEYED BY MURRAY & ASSOC, HIGHLAND COURT, PIE CREEK
AS CONSTRUCTED SURVEY LAYOUTS

1803

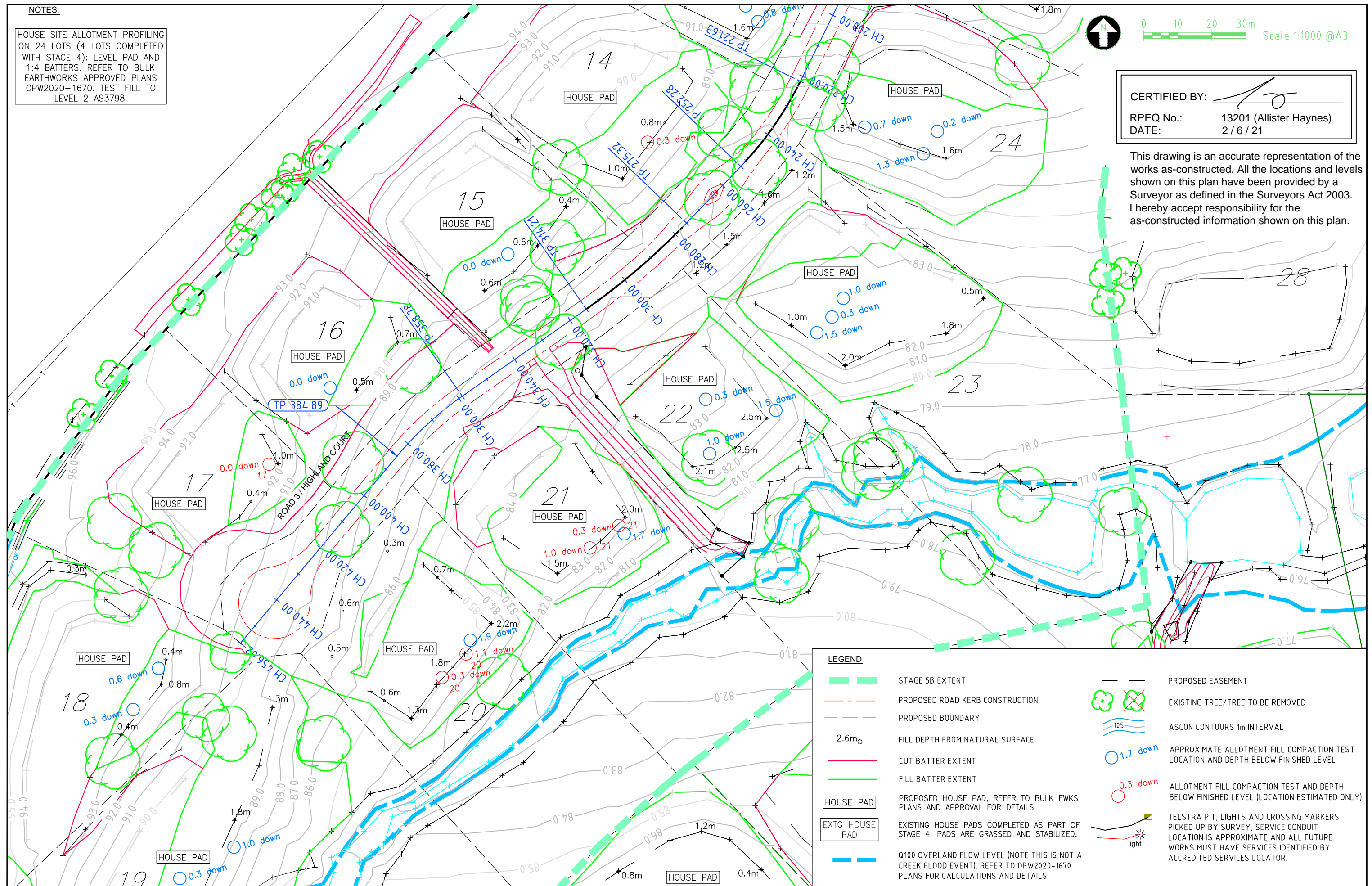
Sheet No. - Revision No.

S5B-S11 0

HOUSE SITE ALLOTMENT PROFILING
ON 24 LOTS (4 LOTS COMPLETED
WITH STAGE 4): LEVEL PAD AND
1:4 BATTERS. REFER TO BULK
EARTHWORKS APPROVED PLANS
OPW2020-1670. TEST FILL TO
LEVEL 2 AS3798.

CERTIFIED BY: [Signature]
RPEQ No.: 13201 (Allister Haynes)
DATE: 2 / 6 / 21

This drawing is an accurate representation of the works as-constructed. All the locations and levels shown on this plan have been provided by a Surveyor as defined in the Surveyors Act 2003. I hereby accept responsibility for the as-constructed information shown on this plan.



A3

0	2-6-20	AS CONSTRUCTED
Rv	DATE	REVISIONS

PSM No	177674
(AHD) RL	89.974
SURVEYED	MURRAY & ASSOC



HAYNES CONSULTING ENGINEERS
ABN 53 613 630 078
PO BOX 549 NOOSA HEADS QLD 4567
(0432) 784 150

GREENDALE STAGE 5B

LOTS 9-25 SP323061, BULK EARTHWORKS
SURVEYED BY MURRAY & ASSOC, HIGHLAND COURT, PIE CREEK

AS CONSTRUCTED SURVEY LAYOUTS

1803

Sheet No. - Revision No.

S5B-S12 0

NOTES:


HOUSE SITE ALLOTMENT PROFILING ON 24 LOTS (4 LOTS COMPLETED WITH STAGE 4): LEVEL PAD AND 1:4 BATTERS. REFER TO BULK EARTHWORKS APPROVED PLANS OPW2020-1670. TEST FILL TO LEVEL 2 AS3798.



0 10 20 30m Scale 1:1000 @A3

LEGEND

- STAGE 5B EXTENT
- PROPOSED ROAD KERB CONSTRUCTION
- PROPOSED BOUNDARY
- 2.6m₀ FILL DEPTH FROM NATURAL SURFACE
- CUT BATTER EXTENT
- FILL BATTER EXTENT
- HOUSE PAD
- EXTG HOUSE PAD
- Q100 OVERLAND FLOW LEVEL (NOTE THIS IS NOT A CREEK FLOOD EVENT). REFER TO OPW2020-1670 PLANS FOR CALCULATIONS AND DETAILS.
- PROPOSED EASEMENT
- EXISTING TREE/TREE TO BE REMOVED
- ASCEN CONTOURS 1m INTERVAL
- APPROXIMATE ALLOTMENT FILL COMPACTION TEST LOCATION AND DEPTH BELOW FINISHED LEVEL
- ALLOTMENT FILL COMPACTION TEST AND DEPTH BELOW FINISHED LEVEL (LOCATION ESTIMATED ONLY)
- TELSTRA PIT, LIGHTS AND CROSSING MARKERS PICKED UP BY SURVEY, SERVICE CONDUIT LOCATION IS APPROXIMATE AND ALL FUTURE WORKS MUST HAVE SERVICES IDENTIFIED BY ACCREDITED SERVICES LOCATOR.

CERTIFIED BY: 
RPEQ No.: 13201 (Allister Haynes)
DATE: 2/6/21

This drawing is an accurate representation of the works as-constructed. All the locations and levels shown on this plan have been provided by a Surveyor as defined in the Surveyors Act 2003. I hereby accept responsibility for the as-constructed information shown on this plan.

A3

0 2-6-20 AS CONSTRUCTED
Rv DATE REVISIONS

ATH
APPR.

PSM No 177674
(AHD) RL 89.974
SURVEYED MURRAY & ASSOC

HAYNES
CONSULTING
ENGINEERS

HAYNES CONSULTING ENGINEERS
ABN 53 613 630 078
PO BOX 549 NOOSA HEADS QLD 4567
(0432) 784 150

GREENDALE STAGE 5B
LOTS 9-25 SP323061, BULK EARTHWORKS
SURVEYED BY MURRAY & ASSOC, HIGHLAND COURT, PIE CREEK
AS CONSTRUCTED SURVEY LAYOUTS

1803

Sheet No. - Revision No.
S5B-S13 0