



Level 1 Geotechnical Inspection, Testing and Assessment The Outlook Stages 6B, 7A & 7B

11512/P/990

fgf Developments Pty Ltd

Table of contents

Table of contents.....	ii
Introduction.....	3
Specification Requirements	4
Site Works.....	4
Compaction Control Testing.....	4
Conclusion.....	4
Appendix A – Field Density Test Results.....	6
Appendix B – Allotment Fill Map	7

Document History

Effective Date	Description of Revision	Prepared By	Reviewed By	Approved By
27/11/2022		Craig Wilson	Peter Gode	Peter Gode

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Introduction

Construction Sciences is the largest private provider of construction materials testing services across Australia. We have a total staff of over 600 staff in 48 permanent offices/laboratories.

We have provided QA testing services to some of the largest road and mining infrastructure projects in these states, as well as overseas.

Over the last 3 to 4 years, Construction Sciences has established more site laboratories for road, rail, mining, and other large infrastructure projects than any other company.

We benefit our clients with the following clear differentiators;

Staff Mobilisation: Construction Sciences' geographic expansion and mobility allow for teams to be available when required, and currently we have the lion's share of major projects in Australia.

Quality Management: Construction Sciences' purpose-built software, COMPLY provides our clients with confidence, by knowing project data is securely stored. COMPLY has a built-in secure audit trail and a fully tracked Quality system. We are also ISO9001 compliant and certified.

Client Relationships: We listen to your needs and respond with innovative solutions that are tailored for your business. We believe in building relationships with our staff and local community.

Safety: At Construction Sciences we embrace a 'safety' culture and it is a key consideration with every project. Currently we are over 2 years LTI (lost time injury) free.

Construction Sciences Pty Ltd was commissioned by **fgf Developments Pty Ltd** to provide Level 1 inspection and testing services for the placement of fill at the residential development:-

PROJECT: The Outlook Stages 6B, 7A & 7B

ADDRESS: Bentley Park QLD 4869

The earthworks were carried out from 19/07/2022 to 15/11/2022

Lots 607, 608, 609, 610, 611, 612, 613, 614, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712 and 713 had fill placed during the earthworks.

Specification Requirements

Filling was carried out in accordance with AS3798-2007 'Guidelines on earthworks for commercial and residential developments' and with the project specification prepared for the project.

The specification requirements were that all fill was to be placed and compacted in layers to a density ratio of not less than 95% of the maximum density as determined by AS1289.5.7.1 (standard compaction).

Site Works

The Outlook Stages 6B, 7A & 7B project was a large scale cut to fill operation with approximately 8788m³ of fill placed.

Areas to be filled were stripped and proof rolled in accordance with the specification requirements.

The fill material generally comprised of Silty CLAY.

Compaction Control Testing

Compaction control tests were carried out at regular intervals throughout the placement of fill in accordance with the minimum test frequency recommendations included in AS3798-2007 'Guidelines on earthworks for commercial and residential developments'. All test results are included in the Appendix A. A summary of the test results is included as Table 1. A total of 20 field density tests were carried out throughout the earthworks. The average density ratio was 100.8 % with a standard deviation of **2.00** %.

Conclusion

It is considered that the placement of fill at The Outlook Stages 6B, 7A & 7B, Bentley Park QLD 4869 was carried out in a controlled manner and the fill was compacted to a density ratio not less than the specified requirement. It is concluded that the fill may be deemed to be '*controlled fill*' in accordance with AS2870 – 2011 '*Residential Slabs & Footings*'.



Craig Wilson

LABORATORY MANAGER
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Table 1-1 Summary of field density test results - The Outlook Stages 6B, 7A & 7B

Date	Location	Density ratio (1)
19/07/2022	Lot No. 702 / GST	100.5
19/07/2022	Lot No. 703 / Fill	101.0
19/07/2022	Lot No. 705 / Fill	101.0
21/07/2022	Lot No. 702 / Fill	96.5
21/07/2022	Lot No. 704 / Fill	99.5
21/07/2022	Lot No. / GST	101.5
25/07/2022	Lot No. 613 / Fill	98.0
25/07/2022	Lot No. 612 / GST	98.0
29/07/2022	Lot No. 612 / Fill	101.0
15/11/2022	Lot 614 / Fill	102.0
15/11/2022	Lot 611 / Fill	104.0
15/11/2022	Lot 613 / Fill	99.0
15/11/2022	Lot 702 / Fill	101.5
15/11/2022	Lot 703 / Fill	103.0
15/11/2022	Lot 704 / Fill	102.5
15/11/2022	Lot 705 / Fill	101.5
15/11/2022	Lot 706 / Fill	103.0
15/11/2022	Lot 708 / Fill	104.0
15/11/2022	Lot 710 / Fill	98.5
15/11/2022	Lot 711 / Fill	100.5

No. of tests:	20	Mean:	100.8 %	Standard Dev:	2.00%
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Notes:

- Standard laboratory compaction used, AS1289.5.7.1.

Appendix A – Field Density Test Results



WET DENSITY RATIO REPORT

Client: ffg Developments Client Address: PO Box 6665, Cairns Project: 220601 - The Outlook Stages 6B, 7B.E & 7A Location: Cairns Component: Field density Area Description: Outlook Stage 6B/7	Report Number: 11512/R/41934-1 Project Number: 11512/P/990 Lot Number: Various Internal Test Request: 11512/T/20816 Client Reference/s: Outlook Stage 6B/7 TR:2285 Report Date / Page: 1/08/2022 Page 1 of 1
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1
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Sample Number	11512/S/107797	11512/S/107798	11512/S/107799
ID / Client ID	TR:2285	TR:2285	TR:2285
Lot Number	N/S-1	GF-1	GF-1
Date / Time Tested	19/07/2022 09:20	19/07/2022 09:25	19/07/2022 09:30
Material Source	Insitu Material	Onsite	Onsite
Material Type	Insitu Material	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Standard	Standard	Standard
Lot No.	702	703	705
Location	E180.897 N9352.349	E158.609 N9361.432	E122.336 N9381.470
RL	RL74	RL75.2	RL77
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	12	0	0
Compaction Sample Number	11512/S/107797	11512/S/107798	11512/S/107799
Sample Description	Insitu Clayey Silty Brown	Clayey Brown	Clayey Fill Brown
Moisture Test Results:			
Field Moisture Content (%)	-	-	-
Adjusted / Moist. Variation (%)	-0.5	0.0	-0.5
Optimum Moisture Content (%)	-	-	-
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	-	-	-
Density Test Results:			
Field Wet Density (t/m ³)	2.23	2.19	2.21
Adj/Peak Conv Wet Density (t/m ³)	2.22	2.17	2.19
Density Ratio Required (%)	95	95	95
Hilf Density Ratio (%)	100.5	101.0	101.0

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
 Accreditation Number: 1986 Corporate Site Number: 11512	Approved Signatory: Craig Wilson Form ID: W5ASMRRep Rev 2



WET DENSITY RATIO REPORT

Client: ffg Developments Client Address: PO Box 6665, Cairns Project: 220601 - The Outlook Stages 6B, 7B.E & 7A Location: Cairns Component: Field Density Area Description: Outlook Stage 6B/7	Report Number: 11512/R/41935-1 Project Number: 11512/P/990 Lot Number: Various Internal Test Request: 11512/T/20836 Client Reference/s: Outlook Stage 6B/7 Report Date / Page: 1/08/2022 Page 1 of 1
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	11512/S/107876	11512/S/107877	11512/S/107878	
ID / Client ID	GF-3	GF-4	NS-2	
Lot Number	702	704	NS	
Date / Time Tested	21/07/2022 09:15	21/07/2022 09:25	21/07/2022 09:35	
Material Source	Onsite	Onsite	Onsite	
Material Type	General Fill	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Standard	Standard	Standard	
Lot No.	702	704	NS	
Location	174.896	148.878	177.575	
	9350.400	9321.959	9419.050	
RL	74.8	77.3	81.4	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	11	5	0	
Compaction Sample Number	11512/S/107876	11512/S/107877	11512/S/107878	
Sample Description	Clayey Gravelly Red	Clayey Gravel Red	Silty Sandy Gravel Brown	
Moisture Test Results:				
Field Moisture Content (%)	12.3	12.3	15.6	
Adjusted / Moist. Variation (%)	-0.5	0.0	2.5	
Optimum Moisture Content (%)	12.0	12.0	18.5	
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Drier than OMC)	
Moisture Ratio (%)	103.5	101.0	85.0	
Density Test Results:				
Field Wet Density (t/m ³)	2.17	2.22	1.99	
Adj/Peak Conv Wet Density (t/m ³)	2.25	2.22	1.95	
Density Ratio Required (%)	95	95	95	
Hilf Density Ratio (%)	96.5	99.5	101.5	

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing	
	
Accreditation Number: 1986 Corporate Site Number: 11512	Approved Signatory: Craig Wilson Form ID: W5ASMRRep Rev 2



WET DENSITY RATIO REPORT

Client: ffg Developments Client Address: PO Box 6665, Cairns Project: 220601 - The Outlook Stages 6B, 7B.E & 7A Location: Cairns Component: Field Densities Area Description: Outlook Stage 6B/7	Report Number: 11512/R/41939-1 Project Number: 11512/P/990 Lot Number: Various Internal Test Request: 11512/T/20862 Client Reference/s: TR:2287 Report Date / Page: 1/08/2022 Page 1 of 1
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1
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Sample Number	11512/S/108045	11512/S/108046	
ID / Client ID	GF-5	NS-3	
Lot Number	613	612	
Date / Time Tested	25/07/2022 14:45	25/07/2022 14:55	
Material Source	Onsite	Onsite	
Material Type	General Fill	Insitu Material	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Standard	Standard	
Location	Lot 613	Lot 612	
Eastings	309.842	304.4	
Northings	9355.030	9343.150	
Level	69.5	69.3	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	11512/S/108045	11512/S/108046	
Sample Description	Silty Clayey Gravelly Red	Silty Clayey Brown	
Moisture Test Results:			
Field Moisture Content (%)	-	-	
Adjusted / Moist. Variation (%)	2.0	0.0	
Optimum Moisture Content (%)	-	-	
Moisture Variation from OMC	(Drier than OMC)	(Wetter than OMC)	
Moisture Ratio (%)	-	-	
Density Test Results:			
Field Wet Density (t/m ³)	2.12	2.17	
Adj/Peak Conv Wet Density (t/m ³)	2.16	2.22	
Density Ratio Required (%)	95	95	
Hilf Density Ratio (%)	98.0	98.0	

Remarks

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Accreditation Number: 1986 Corporate Site Number: 11512	



WET DENSITY RATIO REPORT

Client: fgf Developments Client Address: PO Box 6665, Cairns Project: 220601 - The Outlook Stages 6B, 7B.E & 7A Location: Cairns Component: Field Density Area Description: Outlook Stage 6B/7	Report Number: 11512/R/41999-1 Project Number: 11512/P/990 Lot Number: Internal Test Request: 11512/T/20888 Client Reference/s: TR2288 Report Date / Page: 4/08/2022 Page 1 of 1
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1
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Sample Number	11512/S/108181	11512/S/108182	11512/S/108183	11512/S/108185
ID / Client ID	GF-6	SEW-2	SEW-3	SEW-5
Lot Number	-	-	-	-
Date / Time Tested	29/07/2022 09:15	29/07/2022 09:20	29/07/2022 09:25	29/07/2022 09:35
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Standard	Standard	Standard	Standard
Location	lot 612	4/8 - 1/14	2/14 - 3/14	4/8 - 5/8
Eastings	302.660	5m from MH4/8	6m from MH 2/14	5m from MH 5/8
Northings	9347.202	Rd x-ing	Rd x-ing	-
Level	70.6	Subgrade	Subgrade	Backfill
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	3	6	10	2
Compaction Sample Number	11512/S/108181	11512/S/108182	11512/S/108183	11512/S/108185
Sample Description	red Clay	Red silt	Red silty soil	Red sandy clay
Moisture Test Results:				
Field Moisture Content (%)	-	-	-	-
Adjusted / Moist. Variation (%)	1.5	4.0	2.5	2.5
Optimum Moisture Content (%)	-	-	-	-
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	-	-	-	-
Density Test Results:				
Field Wet Density (t/m ³)	2.17	2.23	2.18	2.15
Adj/Peak Conv Wet Density (t/m ³)	2.15	2.21	2.15	2.14
Density Ratio Required (%)	95	98	98	95
Hilf Density Ratio (%)	101.0	100.5	101.5	100.5

Remarks

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Accreditation Number: 1986 Corporate Site Number: 11512	



WET DENSITY RATIO REPORT

Client: fgf Developments Client Address: PO Box 6665, Cairns Project: 220601 - The Outlook Stages 6B, 7B.E & 7A Location: Cairns Component: Compliance Testing Area Description: General Fill	Report Number: 11512/R/43999-1 Project Number: 11512/P/990 Lot Number: Various Internal Test Request: 11512/T/21827 Client Reference/s: TR 1153 Report Date / Page: 27/11/2022 Page 1 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	11512/S/114218	11512/S/114219	11512/S/114220	11512/S/114221
ID / Client ID	GF7	GF8	GF9	GF10
Lot Number	614	611	613	702
Date / Time Tested	15/11/2022 11:11	15/11/2022 11:39	15/11/2022 11:45	15/11/2022 12:02
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Standard	Standard	Standard	Standard
Lot No.	Lot 614	Lot 611	Lot 613	Lot 702
Location	CL of Lot	9m from F/BDY CL of Lot	7m from B/BDY CL of Lot	8m from F/BDY CL of Lot
RL	68.8	70.2	71.2	75.2
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	10	0	10
Compaction Sample Number	11512/S/114218	11512/S/114219	11512/S/114220	11512/S/114221
Sample Description	Silty CLAY, red brown	Gravelly silty CLAY, red brown	Silty CLAY, red brown	Gravelly silty CLAY, brown
Moisture Test Results:				
Field Moisture Content (%)	11.8	8.9	6.7	7.2
Adjusted / Moist. Variation (%)	4.5	2.5	4.5	3.5
Density Test Results:				
Field Wet Density (t/m ³)	2.26	2.23	2.11	2.29
Adj/Peak Conv Wet Density (t/m ³)	2.21	2.14	2.13	2.26
Density Ratio Required (%)	95	95	95	95
Hiif Density Ratio (%)	102.0	104.0	99.0	101.5

Remarks

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Accreditation Number: 1986 Corporate Site Number: 11512	



WET DENSITY RATIO REPORT

Client: fgf Developments Client Address: PO Box 6665, Cairns Project: 220601 - The Outlook Stages 6B, 7B.E & 7A Location: Cairns Component: Compliance Testing Area Description: General Fill	Report Number: 11512/R/43999-1 Project Number: 11512/P/990 Lot Number: Various Internal Test Request: 11512/T/21827 Client Reference/s: TR 1153 Report Date / Page: 27/11/2022 Page 2 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	11512/S/114222	11512/S/114223	11512/S/114224	11512/S/114225
ID / Client ID	GF11	GF12	GF13	GF14
Lot Number	703	704	705	706
Date / Time Tested	15/11/2022 12:15	15/11/2022 13:45	15/11/2022 14:02	15/11/2022 14:10
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Standard	Standard	Standard	Standard
Lot No.	Lot 703	Lot 704	Lot 705	Lot 706
Location	CL of Lot	CL of Lot	CL of Lot	4m from S/BDy CL of Lot
RL	77.1	79.2	80.7	81.9
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	11	0	0
Compaction Sample Number	11512/S/114222	11512/S/114223	11512/S/114224	11512/S/114225
Sample Description	Silty CLAY, red brown	Gravelly Silty CLAY, brown	Silty CLAY, red brown	Brown gravelly silty CLAY
Moisture Test Results:				
Field Moisture Content (%)	7.8	8.3	8.6	9.9
Adjusted / Moist. Variation (%)	4.5	3.5	4.5	3.5
Density Test Results:				
Field Wet Density (t/m ³)	2.29	2.27	2.19	2.13
Adj/Peak Conv Wet Density (t/m ³)	2.23	2.22	2.15	2.07
Density Ratio Required (%)	95	95	95	95
Hiif Density Ratio (%)	103.0	102.5	101.5	103.0

Remarks

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WET DENSITY RATIO REPORT

Client: ffg Developments Client Address: PO Box 6665, Cairns Project: 220601 - The Outlook Stages 6B, 7B.E & 7A Location: Cairns Component: Compliance Testing Area Description: General Fill	Report Number: 11512/R/43999-1 Project Number: 11512/P/990 Lot Number: Various Internal Test Request: 11512/T/21827 Client Reference/s: TR 1153 Report Date / Page: 27/11/2022 Page 3 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	11512/S/114226	11512/S/114227	11512/S/114228
ID / Client ID	GF15	GF16	GF17
Lot Number	708	710	711
Date / Time Tested	15/11/2022 14:24	15/11/2022 14:36	15/11/2022 14:53
Material Source	Onsite	Onsite	Onsite
Material Type	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Standard	Standard	Standard
Lot No.	Lot 708	Lot 710	Lot 711
Location	5m from F/BDY CL of Lot	CL of Lot	10m from F/BDY CL of Lot
RL	84.8	83.5	80.6
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	11	9	0
Compaction Sample Number	11512/S/114226	11512/S/114227	11512/S/114228
Sample Description	Gravley Silty CLAY, brown	Silty Sandy Gravel Brown	Silty CLAY, red brown
Moisture Test Results:			
Field Moisture Content (%)	7.0	8.5	7.1
Adjusted / Moist. Variation (%)	4.0	4.0	4.5
Density Test Results:			
Field Wet Density (t/m ³)	2.19	2.21	2.18
Adj/Peak Conv Wet Density (t/m ³)	2.11	2.24	2.17
Density Ratio Required (%)	95	95	95
Hiif Density Ratio (%)	104.0	98.5	100.5

Remarks

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Appendix B – Allotment Fill Map

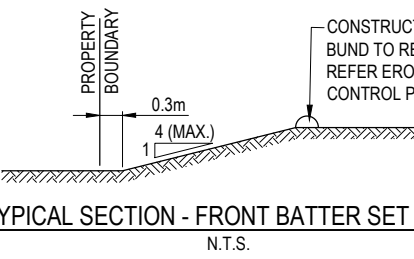
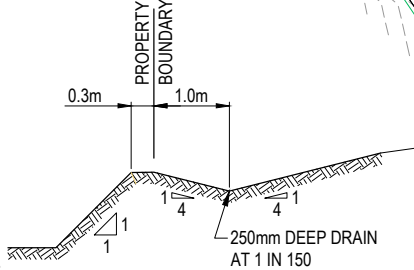
DATE: 06/06/2022 4:30:52 PM NAME: STANLEY, GAVIN
 LOCATION: C:\users\stanlegm\l\p\p\outlook\ci\drg\0604_Earthworks.dwg

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NOTE
 FOR NOTES REFER TO DRG-0602.

- LEGEND**
- AREAS OF FILL
 - 18.70 FINISHED SURFACE LEVEL
 - 18.68 NATURAL SURFACE LEVEL
 - ← FALL OF LOTS
 - CONCRETE PATHWAY (2m WIDE U.N.O.)
 - BATTER
 - STAGE BOUNDARY
 - DESIGN SURFACE CONTOURS (0.25m INTERVAL)
 - EXISTING SURFACE CONTOURS (0.5m INTERVAL)
 - EXISTING STORMWATER
 - EXISTING SEWER
 - EXISTING WATER
 - MINIMUM LEVEL OF LOT ABLE TO BE SERVICED BY SEWER



ISSUED FOR CONSTRUCTION
 FGF DEVELOPMENTS

RECEIVED
 By Meg Svendsen at 8:29 am, Jun 09, 2022

SCALE 1:500 (A1)
 1:1000 (A3)

TYPICAL SECTION - SIDE AND REAR BATTER SET BACK N.T.S.

TYPICAL SECTION - FRONT BATTER SET BACK N.T.S.

REV	DATE	DRAWN	REVD	APPD	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
H	06.06.22	GMS	RJB	RJC	LOT 702 AND 710 GRADING AMENDED		
G	20.05.22	GMS	RJB	RJC	BATTER BETWEEN LOTS 611 AND 614 AMENDED		



CLIENT	WESTERLY PROJECTS PTY LTD
PROJECT	THE OUTLOOK - STAGES 6 & 7
DRAWN	RC
DESIGNED	PAM
DRAWING CHECK	RJB
DESIGN REVIEW	RJC
REVIEWED	D. McEWAN
DATE	16.11.18
APPROVED	<i>[Signature]</i>
DATE	16.11.18

TITLE	EARTHWORKS
SCALE	1:500 (A1)
DRAWING No	IH001601-CI-DRG-0604
REV	H