



CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
PO Box 678 Croydon Vic 3136
Telephone: 9723 0744 Facsimile: 9723 0799

13th September 2022

Our Reference: 22539:NB1342

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
HEATHFIELD – STAGE 1B (PLUMPTON)

Please find attached our Report No's 22539/R001 and 22539/R002 which relate to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density testing was performed in September 2022.

The inspections and testing of the earthworks was undertaken in general accordance with the Level 1 requirements of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments.

The site inspection and testing was performed by experienced geotechnicians from this office. Any areas that were deemed unsatisfactory were reworked and retested under their supervision. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement. The attached compaction results, which were located randomly throughout the fill profile, are considered to be representative of the bulk fill materials that were placed across the reported allotments by Winslow Constructors during the aforementioned period. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

A handwritten signature in blue ink, appearing to be 'Nick Brock', is written over a light blue circular stamp.

Nick Brock

FIGURE 1

SERVICES SCHEDULE							
STREET NAME	GAS	WATER	TELEC.	ELECT.	SEWER	TREE OFFSET (CL TO BOK)	ROAD RESERVE
SARIC COURT	180 W	EX. 3.4 W & 8.5 (REM EX.)	10 E (REM EX.) PROP. 1.85 E @ 0.80 W	5.7-8.3 W E (REM EX.) PROP. 2.65 E	EX. 5.25 W EX. 100 E	105 B.O.K. E	25.00
SUNNYBANK ROAD	2.05 N	2.60 N	2.05 S	2.55 S	0.80 N	-	16.00
HYDRA WAY	2.10 S	2.60 S	1.775 N	2.60 N	N/A	-	16.00
PIENZA ROAD	2.10 N	2.60 N	1.775 S	2.60 S	N/A	-	16.00
PASKAS DRIVE	2.10 S	2.60 S	1.775 N	2.60 N	EX. 100 S	-	16.00

* DENOTES EXISTING SERVICE EXACT LOCATION TO BE PROVEN ON SITE BY CONTRACTOR.
 ALL OFFSETS ARE REFERENCED TO NEAREST TITLE BOUNDARY. "REM EX." - EXISTING SERVICE TO BE REMOVED AND/OR RELOCATED, REFER LAYOUT DWGS FOR DETAILS

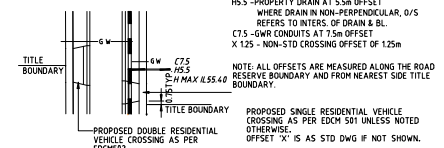
LEGEND

- DRAIN, PROPERTY INLET & PIT
- HOUSE DRAIN
- SEWER AND MAINTENANCE HOLE
- EX SEWER AND MAINTENANCE HOLE
- WATER MAIN
- EX WATER MAIN, VALVE & HYDRANT
- GAS MAIN
- EX GAS MAIN, VALVE
- TELECOM SERVICES & PITS
- EX TELECOM SERVICES & PITS
- RECYCLED WATER
- EX RECYCLED WATER
- ELECTRICAL U/G SERVICES
- EX ELECTRICAL U/G SERVICES
- ELECTRICAL SERVICE & PIT
- EX ELECTRICAL SERVICES
- EX ELECTRICAL OVERHEADS
- GAS & WATER CONDUITS
- TOP OF BATTER
- TOE OF BATTER
- EX FENCE
- EX WALL OR BUILDING
- 600 B2 TYPE KERB & CHANNEL AS PER EDM3 301
- EXISTING SURFACE CONTOURS
- PROPOSED STREET TREE / PASSIVE IRRIGATION PIT AS PER RISE STANDARD. LOCATIONS TO BE CONFIRMED IN LANDSCAPE PLANS
- PROPOSED STREET TREE WITHOUT PASSIVE IRRIGATION PIT
- EXISTING VEGETATION TO BE REMOVED
- F FINISHED SURFACE AFTER CUTTING OR FILLING
- PA TOP OF PROPOSED BATTER
- P PROPOSED PAVEMENT OR FOOTPATH SURFACE
- L EXISTING OR PROPOSED INVERT LEVEL OF PIPE OR OPEN DRAIN
- TP TANGENT POINT
- CH CHANGE
- CA CHANGE
- PSH

Approximate field density test location

EXISTING TREES, FENCES AND STRUCTURES

- ALL EXISTING TREES ARE TO BE REMOVED AS PER TREES REMOVAL PLAN.
- ALL EXISTING FENCES AND STRUCTURES ARE TO BE REMOVED.

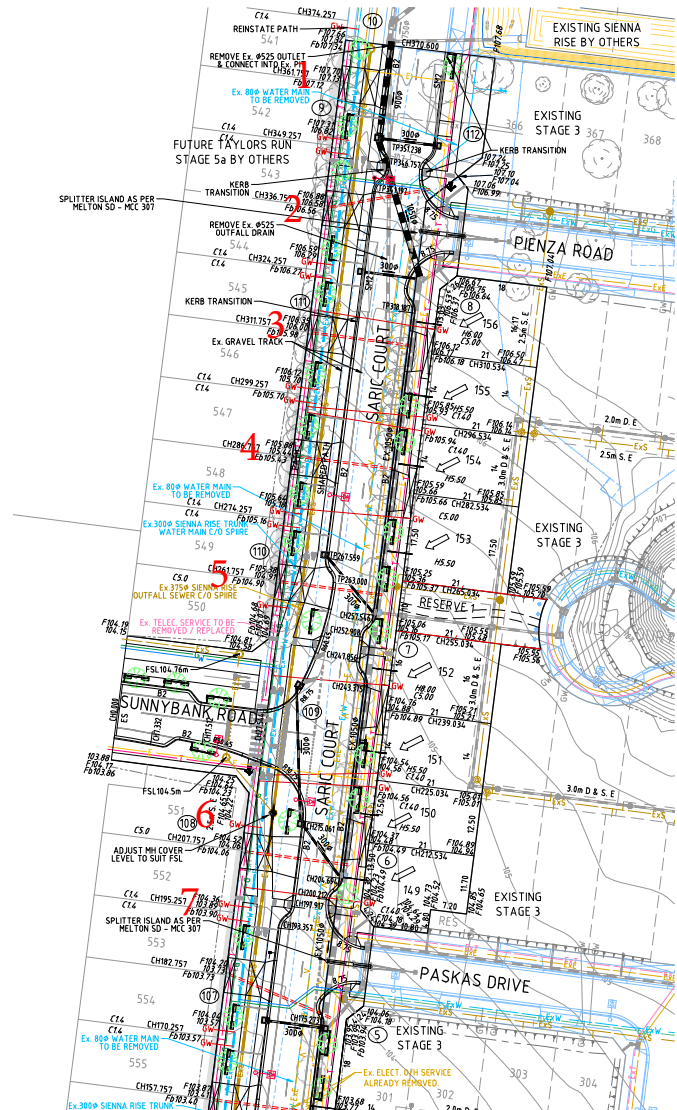
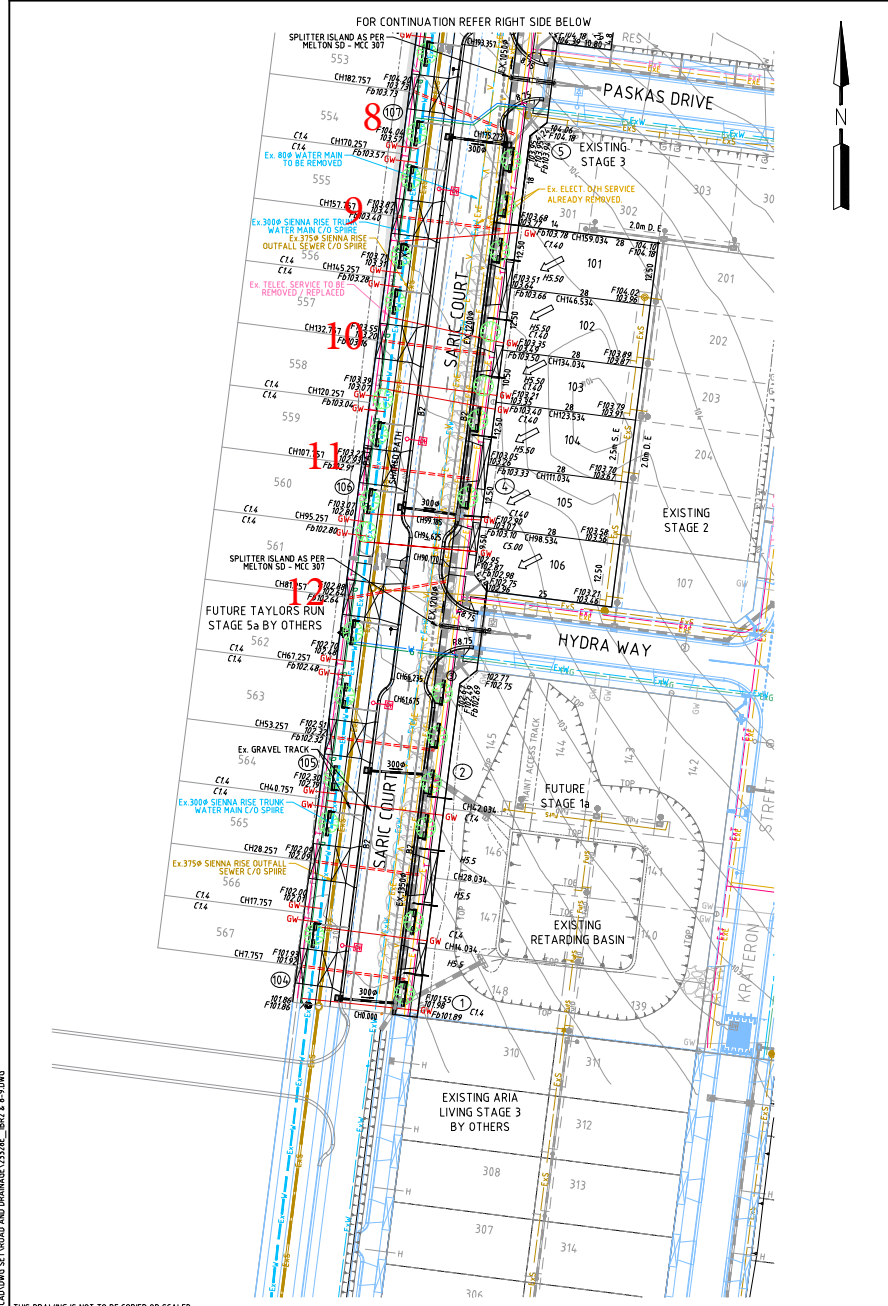


TYPICAL NOTATIONS - EXAMPLE
 NOT TO SCALE

WARNING

BEWARE OF UNDERGROUND SERVICES
 THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE PRIOR TO COMMENCEMENT OF WORK. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

CONSTRUCTION PLAN



THIS DRAWING IS NOT TO BE COPIED OR SCALED

VERSION	REVISIONS	DATE	BY	CHKD
B	CONSTRUCTION ISSUE	22.02.22	JZ	
A	PRELIMINARY ISSUE	29.11.21	JZ	
VERSION	REMARKS			

DRAWN BY: N. ROBINSON DESIGNED BY: J. ZHOU
 MELWAY: 356.85 CHECKED BY: X.XXXXXX
 DATUM: AHD AUTHORISED BY: X.XXXXXX

REEDS CONSULTING
 LAND SURVEYING CIVIL ENGINEERING PLANNING LANDSCAPE ARCHITECTURE DEVELOPMENT CONSULTING

www.reedsconsulting.com.au 1st & 4th Elizabeth Street Melbourne Victoria 3000 p 03 9460 3000 Copyright © 2022 Reeds Consulting Pty Ltd

CITY OF MELTON
HEATHFIELD ESTATE - STAGE 1b
39-56 SARIC COURT, FRASER RISE
 LAYOUT PLAN

DRAWING No: **1R2** VERSION: **B**
 REFERENCE: **23328e/1B**
 SHEET: **2** OF **13**

H:\23328\REF_01 - INVESTING\CAD\DWG SET\ROAD AND DRAINAGE\23328E_0001_1_B.DWG



COMPACTION ASSESSMENT

Job No 22539
 Report No 22539/R001
 Date Issued 13/09/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	HEATHFIELD - STAGE 1B	Date tested	08/09/22
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 13:22
---------	------------	-----------------	--------	-------------

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	4	5	6	
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	
Field wet density	t/m ³	2.07	1.90	1.91	1.91	1.83	1.78
Field moisture content	%	20.8	23.7	20.6	26.7	22.7	22.9

Test procedure AS 1289.5.7.1

Test No	1	2	3	4	5	6	
Compactive effort	Standard						
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m ³	2.10	2.00	1.95	1.97	1.88	1.88
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	23.0	26.0	22.5	28.5	25.0	25.0

Moisture Variation From Optimum Moisture Content	2.0% dry	2.0% dry	1.5% dry	1.5% dry	2.5% dry	2.0% dry
--	----------	----------	----------	----------	----------	----------

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R _{HD})	%	98.5	95.0	98.0	97.0	97.5	95.0
-----------------------------------	---	------	------	------	------	------	------

Material description

No 1 - 6 Clay Fill

AVRLOT HILF V1.10 MAR 13



NATA Accredited Laboratory No 9909
 Accredited for compliance with
 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 22539
 Report No 22539/R002
 Date Issued 13/09/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	HEATHFIELD - STAGE 1B	Date tested	09/09/22
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 13:28
---------	------------	-----------------	--------	-------------

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	7	8	9	10	11	12
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
Approximate depth below FSL						
Measurement depth	mm	175	175	175	175	175
Field wet density	t/m ³	1.95	1.95	1.91	1.90	1.81
Field moisture content	%	24.0	26.2	25.2	24.7	26.3

Test procedure AS 1289.5.7.1

Test No	7	8	9	10	11	12
Compactive effort	Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0
Peak Converted Wet Density	t/m ³	2.02	2.01	1.97	1.96	1.88
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	26.0	28.0	27.0	27.0	28.5

Moisture Variation From Optimum Moisture Content	2.0% dry	1.5% dry	2.0% dry	2.0% dry	2.5% dry	2.0% dry
--	----------	----------	----------	----------	----------	----------

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R _{HD})	%	97.0	97.0	97.0	97.0	96.5	97.0
-----------------------------------	---	------	------	------	------	------	------

Material description

No 7 - 12 Clay Fill

AVRLOT HILF V1.10 MAR 13



NATA Accredited Laboratory No 9909
 Accredited for compliance with
 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry