



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

29th January 2018

Our Reference: 18062:NB122

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ALBRIGHT ESTATE – STAGE 1 (TRUGANINA)**

Please find attached our Report No 18062/R001 which relates to the field density testing that was conducted within the wetland basins at the above subdivision. The level 1 inspections and associated field density testing were performed in October 2017.

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).

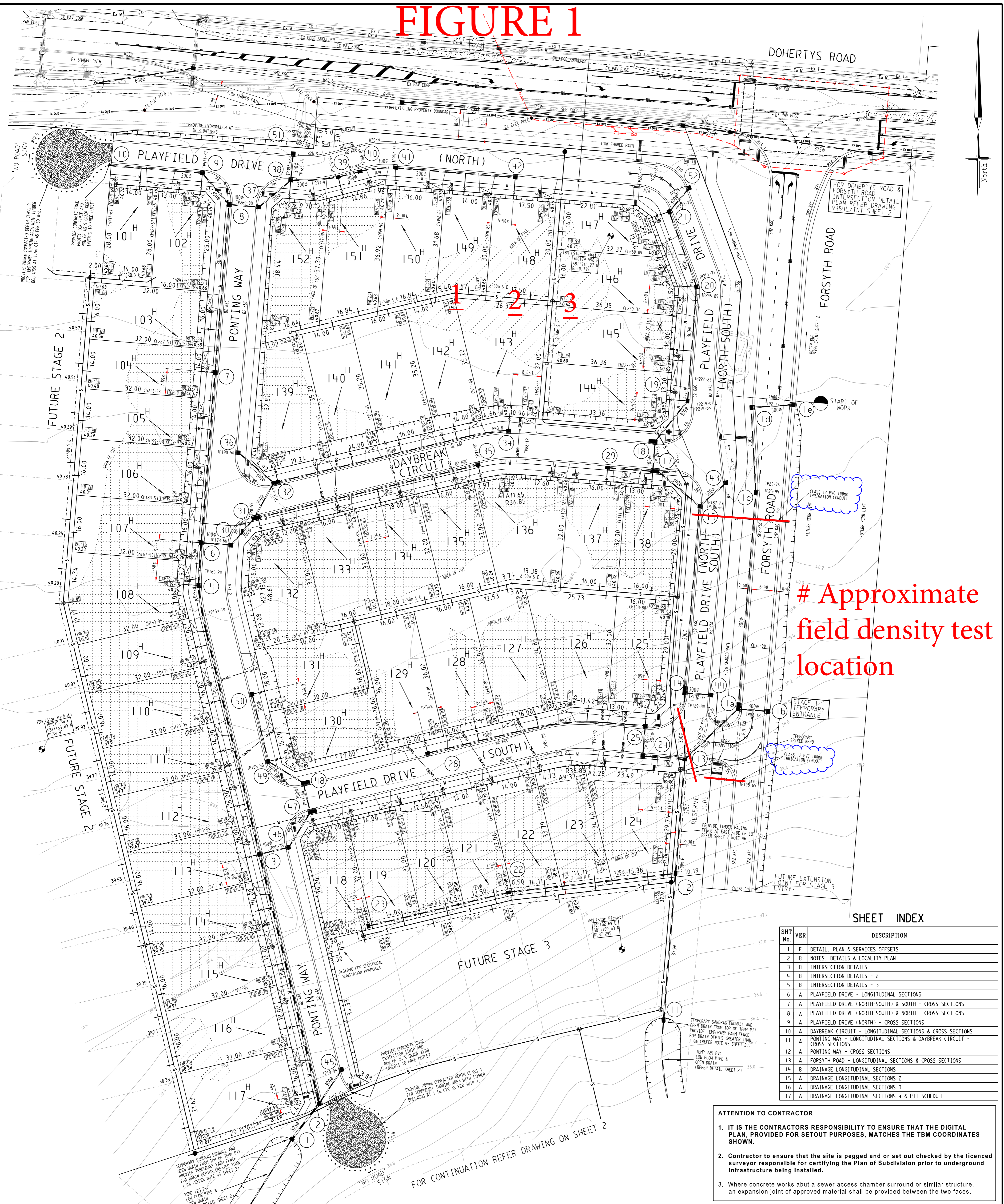
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

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

Nick Brock

FIGURE 1



Approximate field density test location

SHEET INDEX

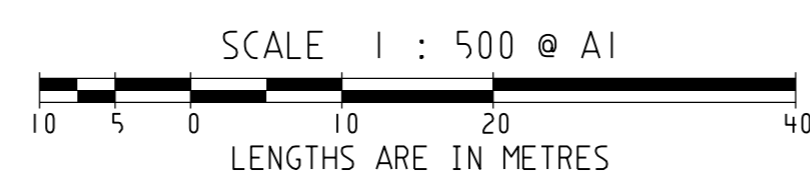
SHT No.	VER	DESCRIPTION
1	F	DETAIL, PLAN & SERVICES OFFSETS
2	B	NOTES, DETAILS & LOCALITY PLAN
3	B	INTERSECTION DETAILS
4	B	INTERSECTION DETAILS - 2
5	B	INTERSECTION DETAILS - 3
6	A	PLAYFIELD DRIVE - LONGITUDINAL SECTIONS
7	A	PLAYFIELD DRIVE (NORTH-SOUTH) & SOUTH - CROSS SECTIONS
8	A	PLAYFIELD DRIVE (NORTH-SOUTH) & NORTH - CROSS SECTIONS
9	A	PLAYFIELD DRIVE (NORTH) - CROSS SECTIONS
10	A	DAYBREAK CIRCUIT - LONGITUDINAL SECTIONS & CROSS SECTIONS
11	A	PONTING WAY - LONGITUDINAL SECTIONS & DAYBREAK CIRCUIT - CROSS SECTIONS
12	A	PONTING WAY - CROSS SECTIONS
13	A	FORSYTH ROAD - LONGITUDINAL SECTIONS & CROSS SECTIONS
14	B	DRAINAGE LONGITUDINAL SECTIONS
15	B	DRAINAGE LONGITUDINAL SECTIONS 2
16	A	DRAINAGE LONGITUDINAL SECTIONS 3
17	A	DRAINAGE LONGITUDINAL SECTIONS 4 & PIT SCHEDULE

- ATTENTION TO CONTRACTOR**
- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
 - Contractor to ensure that the site is pegged and or set out checked by the licenced surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.
 - Where concrete works about a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.

SERVICES OFFSETS AND LOCATIONS

STREET NAME	Rd RESERVE	WATER	GAS	ELECTRICITY	FIBRE TO THE HOME	Bk. of KERB	JOINT TRENCHING
PLAYFIELD DRIVE (NORTH) (LOT 101-102 & 147-152)	14-50	2-70S	2-20S	1-70S	4-05S	1-00 BOK	3-55S
PLAYFIELD DRIVE (NORTH-SOUTH) (LOT 144-147)	17-50	2-70W	2-20W	1-70W	3-95W	1-00 BOK	3-55W
PLAYFIELD DRIVE (NORTH-SOUTH) (LOT 125 & 138)	14-50	2-70W	2-20W	1-70W	3-95W	1-00 BOK	3-55W
PONTING WAY LOT 102-112	16-00	3-20W	2-70W	2-25W	2-35E	1-00 BOK	1-85E
PONTING WAY LOT 112-117	16-00	3-00W	2-50W	2-05W	2-35E	1-00 BOK	1-85E
PLAYFIELD DRIVE (SOUTH)	16-00	3-20S	2-70S	2-25S	2-45N	1-00 BOK	1-85N
DAYBREAK CIRCUIT	16-00	3-20S	2-70S	2-25S	2-45N	1-00 BOK	1-85N
FORSYTH ROAD	40-00 FUT	-	-	26-80W FUT	3-35W	1-00 BOK	4-10W

PLAN
SCALE 1:500



SYMBOL LEGEND

Drains <300	Ex/Natural/FS Level	Prop	Exist
Sewer >300	FS @ Building Line	S	S
Water	Top/Toe of Batter	W	W
House Drain	Top Ret. Wall Level	H	H
Property Inlet	100yr Flood Level	I	I
Street Sign	Fill Prop/Ex (> 0.15m depth)	FS	FS
Retaining Wall	Cut Prop/Ex (> 0.15m depth)	CS	CS
Conduits 50mm	KERB TRANSITION	50	50
Conduits 100mm		100	100
Ex Gas/Elect/Tel		G	E
TBM		T	T

VER	DATE	REMARKS
F	14/07/17	IRRIGATION CONDUITS ADDED
E	05/07/17	WATER CONDUIT LOCATION AMENDMENTS
D	08/05/17	PONTING WAY LOT 112-117 SERVICES OFFSETS & WATER CONDUIT LOCATION AMENDMENTS
C	10/04/17	OFFSETS TABLE AMENDMENTS
B	03/03/17	SHEET INDEX AMENDED
A	17/02/17	ISSUE FOR CONSTRUCTION

breese pitt dixon pty. ltd.
land surveyors civil engineers

MELWAY REF. 360-E-11

ALBRIGHT ESTATE STAGE 1

1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

MUNICIPALITY **WYNDHAM**

REFERENCE **9354 E/1**

SCALE AS SHOWN DATUM AHD DATE SEP '16 SHEET 1 OF 17



COMPACTION ASSESSMENT

Job No 18062
 Report No 18062/R001
 Date Issued 13/12/2017

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALBRIGHT ESTATE - STAGE 1	Date tested	02/10/17
Location	TRUGANINA	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	09:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL						
Measurement depth	mm	175	175	175	-	-
Field wet density	t/m ³	1.83	1.84	1.81	-	-
Field moisture content	%	27.0	27.0	27.8	-	-

Test procedure AS 1289.5.7.1

Test No	1	2	3	-	-	-
Compactive effort	Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	-	-
Percent of oversize material	wet	0	0	0	-	-
Peak Converted Wet Density	t/m ³	1.88	1.88	1.88	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	27.0	28.5	28.5	-	-

Moisture Variation From Optimum Moisture Content	0.0%	1.5% dry	0.5% dry	-	-	-
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Density Ratio (R _{HD})	%	97.5	98.0	96.5	-	-
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Material description

No 1 - 3 Clay Fill



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards. Accredited for compliance to ISO/IEC 17025. Accreditation No 9909

Approved Signatory : Justin Fry