



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

12<sup>th</sup> November 2015

Our Reference: 15506:DK087

Winslow Constructors Pty Ltd  
50 Barry Road  
CAMPBELLFIELD VIC 3061

Dear Sirs,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING  
ASTON ESTATE (STAGE 22) - CRAIGIEBURN**

Please find attached our Report No 15506/R001 that relates 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 early November 2015.

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 inspections and testing was performed by an experienced geotechnician 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 filled 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 filled 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).

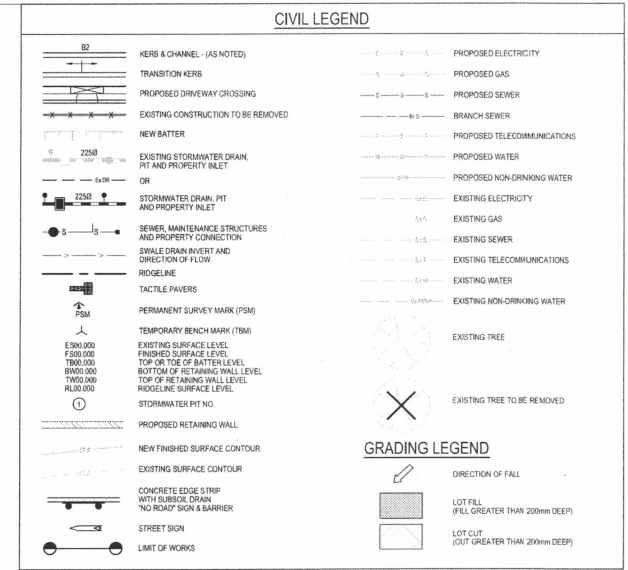
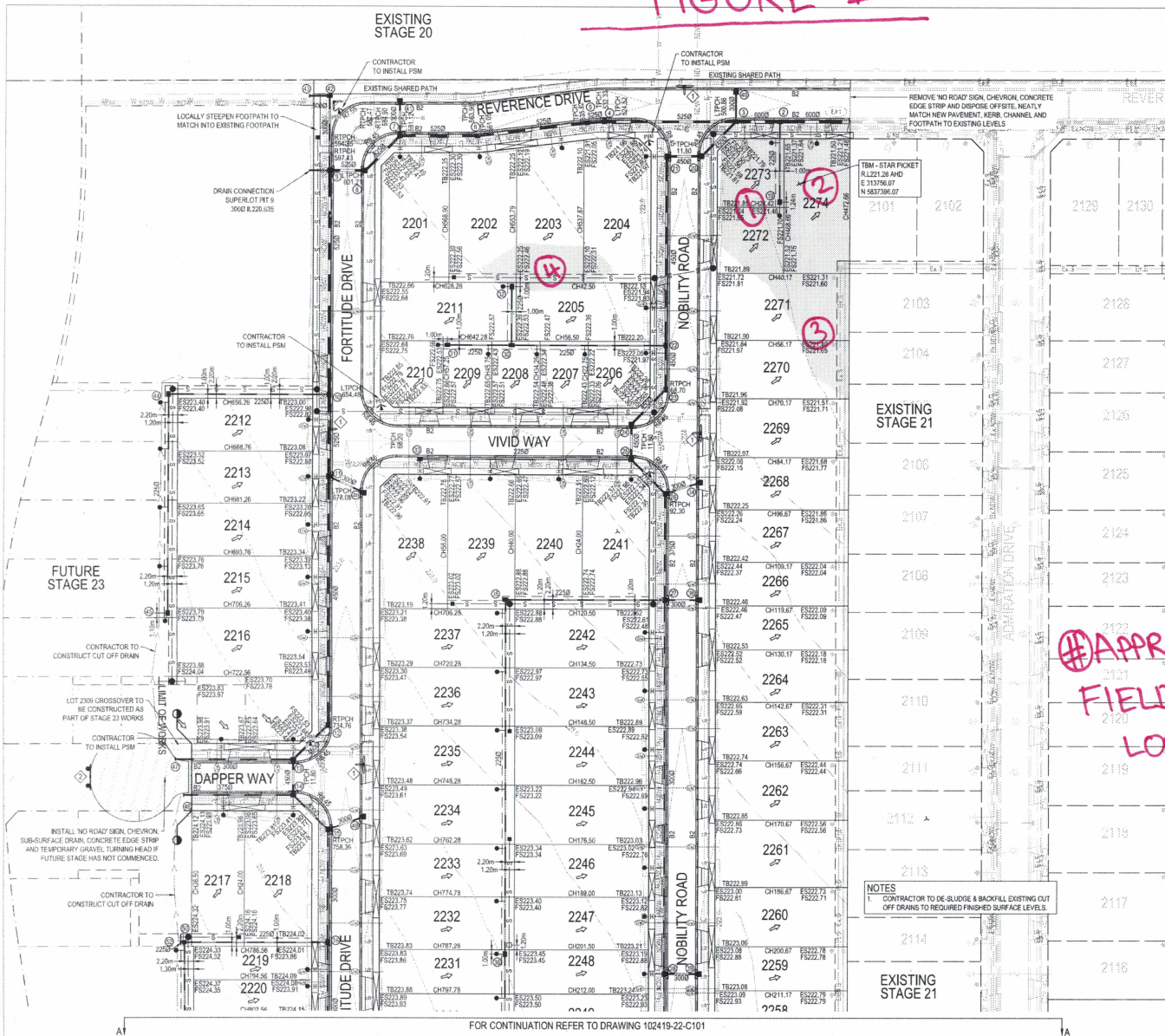
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

A handwritten signature in red ink, appearing to read 'Dino Kondzic', is written over a faint, light-colored circular stamp or watermark.

Dino Kondzic

# FIGURE 1



⊕ APPROXIMATE FIELD DENSITY LOCATION

NOTES  
1. CONTRACTOR TO DE-SLUDGE & BACKFILL EXISTING CUT OFF DRAINS TO REQUIRED FINISHED SURFACE LEVELS.

### SIGN SCHEDULE

SIGN	REFERENCE

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

**WARNING**  
PROPOSED SERVICES  
THE LOCATION AND EXTENT OF PROPOSED SERVICES IS INDICATIVE ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION. REFER TO AUTHORISED DOCUMENTATION BY RELEVANT AUTHORITY FOR CONSTRUCTION DETAILS.

### SERVICES OFFSET TABLE

STREET NAME	GAS	RECYCLED WATER	POTABLE WATER	TELCOMM.	ELECTRICITY
REVERENCE DRIVE	2.10m S	2.50m S	3.00m S	0.25m N	0.80m N
NOBILITY ROAD	2.10m W	2.50m W	3.00m W	1.85m E	2.85m E
FORTITUDE DRIVE	2.10m W	2.50m W	3.00m W	1.85m E	2.85m E
VIVID WAY	2.10m S	2.50m S	3.00m S	1.85m N	2.85m N
DAPPER WAY	2.10m S	2.50m S	3.00m S	1.85m N	2.85m N

REV	DESCRIPTION	BY	DATE
1	PRELIMINARY DRAFT	ASB	15/05/21
2	PRELIMINARY DESIGN, CLIENT & CONSULTANT COMMENTS	ASB	02/08/21
3	CONTRACT DOCUMENTS	ASB	02/08/21
4	FINAL DRAWING (ISSUED FOR TENDER)	ASB	02/08/21



**astonPEET**  
craigieburn

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CLIENT  
PEET LTD  
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TITLE  
DETAIL PLAN  
SHEET 1 OF 2

PROJECT  
ASTON ESTATE  
STAGE 22  
HUME CITY COUNCIL

STATUS  
FOR CONSTRUCTION

DESIGNED LG  
DRAWN AJB  
APPROVED SD  
DATE 10/24/22  
SCALE 4 OF 22  
SHEET 4 OF 22  
REV 01



# COMPACTION ASSESSMENT

Job No 15506  
 Report No 15506/R001  
 Date Issued 12/11/15

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	ZM
Project	ASTON - STAGE 22	Date tested	10/11/15
Location	CRAIGIEBURN	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 08:20
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	4	-	-
	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	-	-
Field wet density t/m <sup>3</sup>	2.04	2.16	1.98	1.92	-	-
Field moisture content %	22.5	19.9	21.0	23.9	-	-

Test procedure AS 1289.5.7.1

Test No	1	2	3	4	-	-
Compactive effort	Standard					
Oversize rock retained on sieve mm	19.0	19.0	19.0	19.0	-	-
Percent of oversize material wet	0	1	0	0	-	-
Peak Converted Wet Density t/m <sup>3</sup>	2.05	2.11	2.05	2.00	-	-
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	-	2.13	-	-	-	-
Optimum Moisture Content %	22.5	19.5	20.5	22.5	-	-

Moisture Variation From Optimum Moisture Content	0.0%	0.5% wet	0.5% wet	1.5% wet	-	-
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Density Ratio ( R <sub>HD</sub> )	%	100.0	101.5	96.5	96.0	-	-
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Material description

No 1 - 4 Clay Fill
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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