

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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20th June 2018

Our Reference: 18355:NB212

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams.

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING ASTON – STAGE 32 (CRAGIEBURN)

Please find attached our Report No 18355/R001 which 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 November 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.

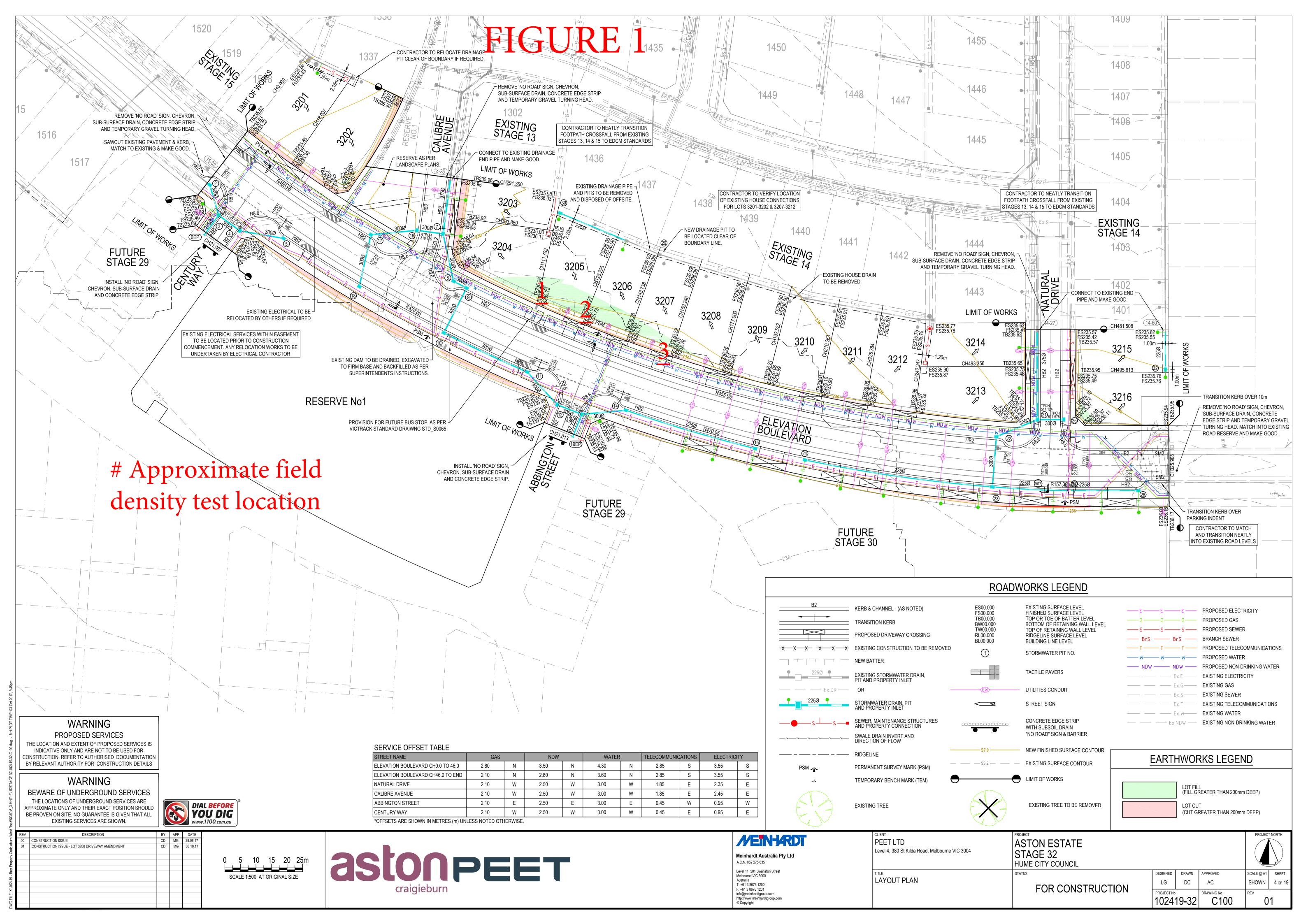
The site inspection and testing was performed by experienced geotechnicians from this office. Any areas that were deemed unsatisfactory were reworked and retested under their supervision. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement. 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

Nick Brock





COMPACTION ASSESSMENT

Job No 18355 CIVIL GEOTECHNICAL SERVICES Report No 18355/R001 Date Issued 20/06/2018 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Tested by Client AC Project **ASTON - STAGE 32** Date tested 07/11/17 Location **CRAGIEBURN** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:00

Test No		1	2	3		
Location						
		REFER	REFER	REFER		
		TO	TO	TO		
		FIGURE 1	FIGURE 1	FIGURE 1		
Approximate depth below FSL						
Measurement depth	mm	175	175	175		
moasaroment aepin	111111					
·	t/m³	1.95	1.95	1.96		
Field wet density Field moisture content		1.95 19.4	1.95 22.0	1.96 20.7		
Field wet density Field moisture content	t/m³					
Field wet density Field moisture content Test procedure AS 1289.5.7.1	t/m³	19.4	22.0	20.7		
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No	t/m³			20.7		
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort	t/m³	19.4	22.0	20.7 3 Stan	dard	
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort	t/m³	19.4	22.0	20.7	dard	
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve	t/m³ %	19.4	22.0	20.7 3 Stan	dard	
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	t/m³ % mm	19.4	22.0	20.7 3 Stan 19.0	dard	
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	t/m³ % mm wet	19.4 1 19.0 0	22.0 2 19.0 0	3 Stan 19.0	dard	
Field wet density Field moisture content	t/m³ % mm wet t/m³	19.4 1 19.0 0	22.0 2 19.0 0	3 Stan 19.0	dard	
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³ t/m³	19.4 1 19.0 0 2.04	22.0 2 19.0 0 2.01	3 Stan 19.0 0 1.99	dard	
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density Optimum Moisture Content	mm wet t/m³ t/m³	19.4 1 19.0 0 2.04 - 21.0	22.0 2 19.0 0 2.01 - 20.5	3 Stan 19.0 0 1.99 -	dard	
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³ t/m³	19.4 1 19.0 0 2.04	22.0 2 19.0 0 2.01	3 Stan 19.0 0 1.99	dard	

Material description

No 1 - 3 Clay Fill



Approved Signatory : Justin Fry

AVRLOT HILF V1.10 MAR 13