



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

1<sup>st</sup> September 2022

Our Reference: 22027:NB1338

Winslow Constructors Pty Ltd  
50 Barry Road  
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING**  
**SEVENTH BEND – STAGE 8 (MELTON SOUTH)**

Please find attached our Report No 22027/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 January 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).

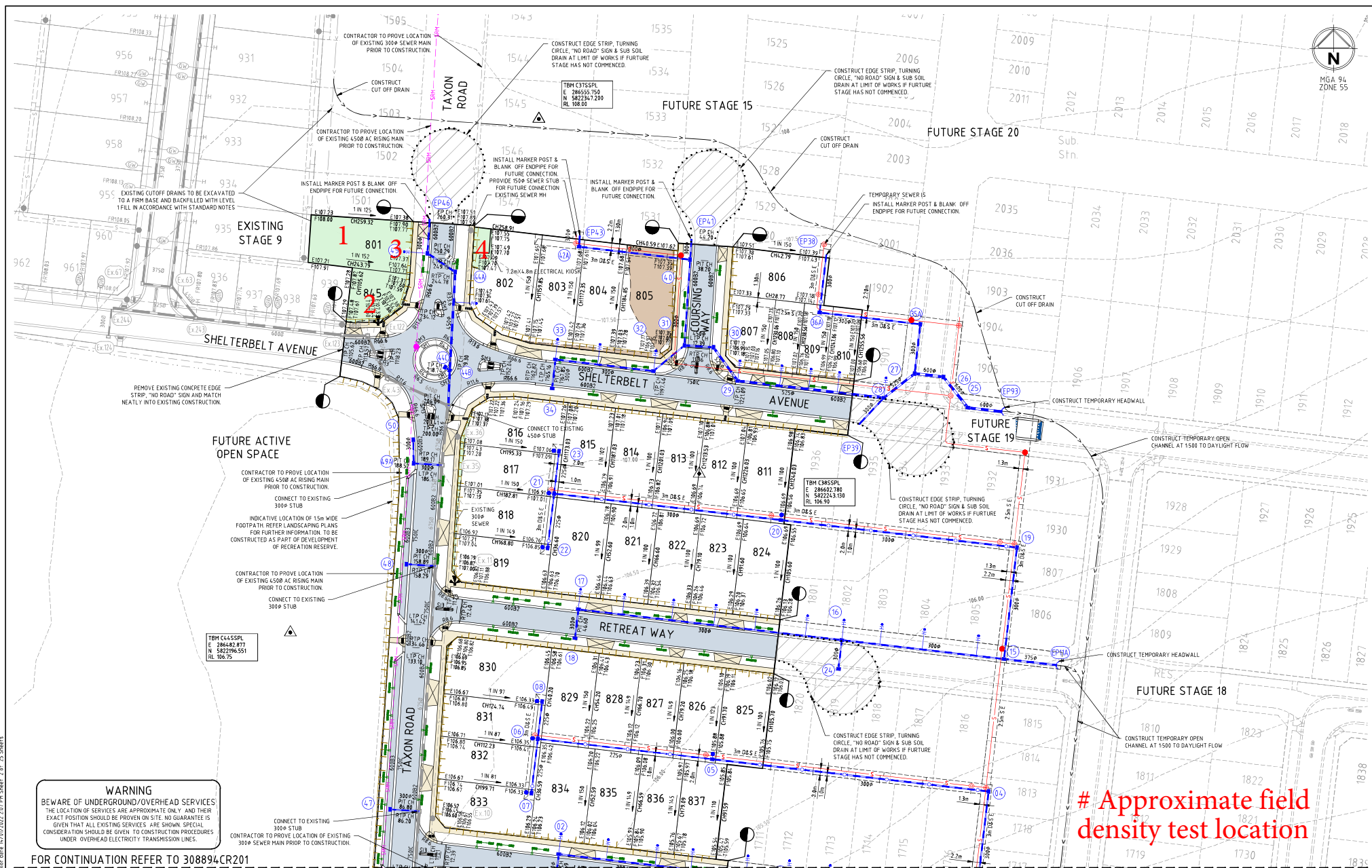
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

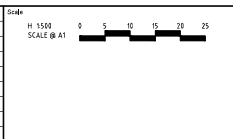
Civil Geotechnical Services

Nick Brock

# FIGURE 1 (1 of 2)



Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	M.H.	14/01/22
1	LAYOUT PLANS UPDATED	M.H.	17/11/21
2	COUNCIL AMENDMENTS	M.H.	10/11/21
3	COUNCIL AMENDMENTS	M.H.	05/11/21
4	COUNCIL AMENDMENTS	M.H.	13/10/21
5	COUNCIL AMENDMENTS	M.H.	22/09/21
6	ISSUED FOR APPROVAL	M.H.	24/08/21

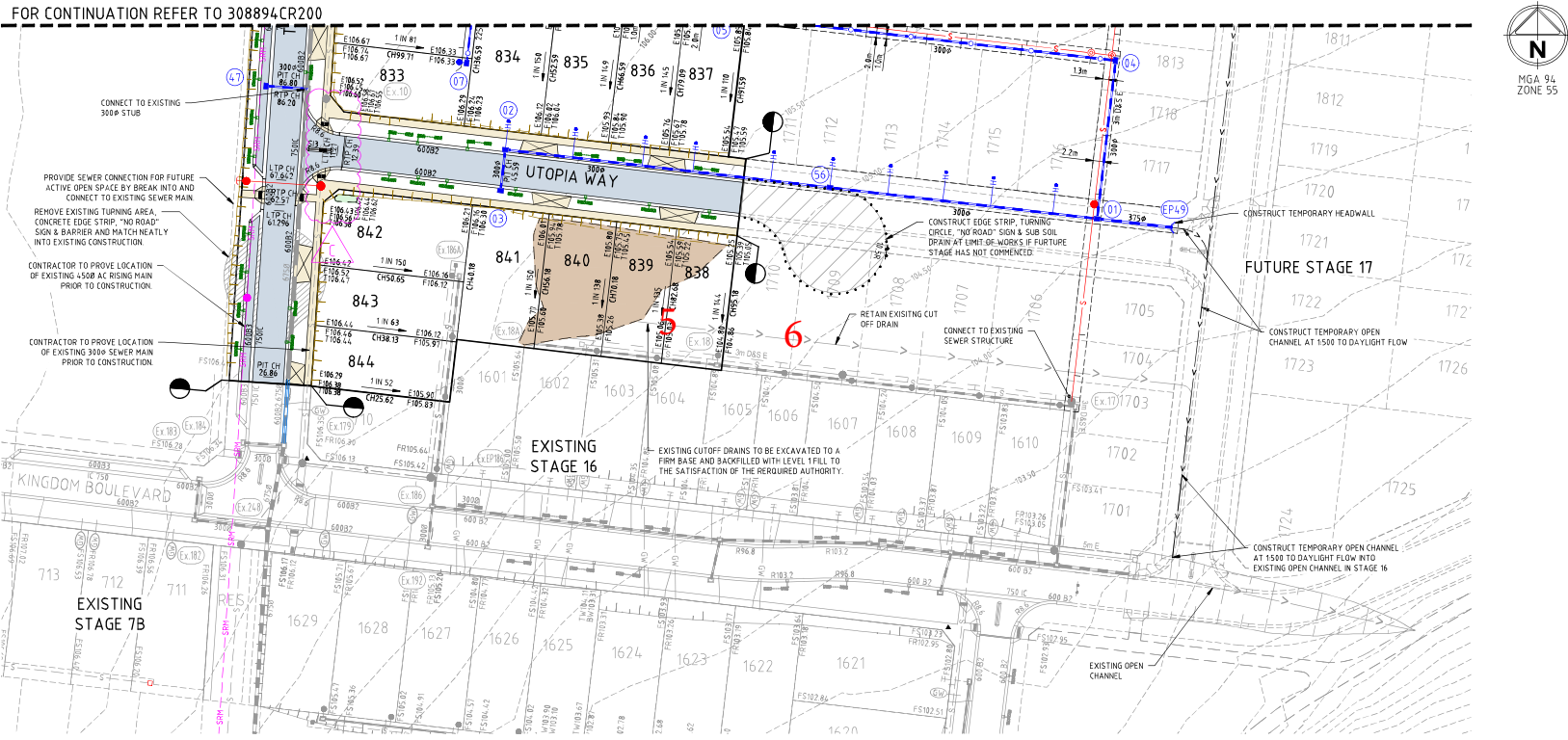


**spiire**  
L6 414 LA TROBE STREET PO BOX 18084 MELBOURNE  
VICTORIA 3007 AUSTRALIA T 61 3 9693 7888  
spiire.com.au ABRN 55 050 029 635

Designed <b>M.TRUONG</b>	Checked <b>M.HOLMES</b>
Authorised	Date 24/08/21

**SEVENTH BEND  
STAGE 8  
ROAD AND DRAINAGE  
ROAD LAYOUT PLANS - FACE PLAN - SHEET 1**  
MELTON CITY COUNCIL  
EXFORD ROAD MANAGEMENT PTY LTD  
**CONSTRUCTION 308894CR200 0**

FIGURE 1 (2 of 2)



**WARNING**  
BEWARE OF UNDERGROUND/OVERHEAD SERVICES  
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

Rev	Amendments	Approved	Date
D	ISSUE FOR CONSTRUCTION	M.H	14/01/22
D	LAYOUT PLANS UPDATED	M.H	17/11/21
C	COUNCIL AMENDMENTS	M.H	13/10/21
B	COUNCIL AMENDMENTS	M.H	22/09/21
A	ISSUED FOR APPROVAL	M.H	24/08/21

Scale  
H 1500  
SCALE @ A1  
0 5 10 15 20 25

  
System Certified  
© Spiire Australia Pty Ltd All Rights Reserved  
This document is provided by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the contract. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

**spiire**  
L6 414 LA TROBE STREET PO BOX 18084 MELBOURNE  
VICTORIA 3007 AUSTRALIA T 61 3 9993 7888  
spiire.com.au ABRN 95 050 029 635

**SEVENTH BEND**  
STAGE 8  
ROAD LAYOUT PLANS - FACE PLAN - SHEET 2  
MELTON CITY COUNCIL  
EXFORD ROAD MANAGEMENT PTY LTD  
Designed  
**M.TRUONG**  
Authorised  
**M.HOLMES**  
Checked  
Date  
24/08/21

**SEVENTH BEND**  
STAGE 8  
ROAD LAYOUT PLANS - FACE PLAN - SHEET 2  
MELTON CITY COUNCIL  
EXFORD ROAD MANAGEMENT PTY LTD  
**CONSTRUCTION** 308894CR201 0



## COMPACTION ASSESSMENT

### CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 22027  
Report No 22027/R001  
Date Issued 28/01/2022

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	SEVENTH BEND - STAGE 8	Date tested	19/01/22
Location	MELTON SOUTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:26
---------	------------	-----------------	--------	-------------

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	175
Field wet density t/m <sup>3</sup>	1.84	1.80	1.77	1.84	1.81	1.80
Field moisture content %	22.2	23.3	23.6	19.2	22.7	27.0

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 <sup>3</sup>	1.89	1.85	1.83	1.89	1.84	1.86
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	-	-	-	-	-	-
Optimum Moisture Content %	25.0	24.0	25.0	19.5	25.0	27.5

Moisture Variation From Optimum Moisture Content	2.5% dry	1.0% dry	1.5% dry	0.5% dry	2.0% dry	0.5% 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 ( $R_{HD}$ )	%	97.5	97.0	96.5	97.0	98.5	97.0
----------------------------	---	------	------	------	------	------	------

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