



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

16<sup>th</sup> July 2021

Our Reference: 21277:NB993

Winslow Constructors Pty Ltd  
50 Barry Road  
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING**  
**REDSTONE – STAGE 3 (SUNBURY)**

Please find attached our Report No 21277/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 July 2021.

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).

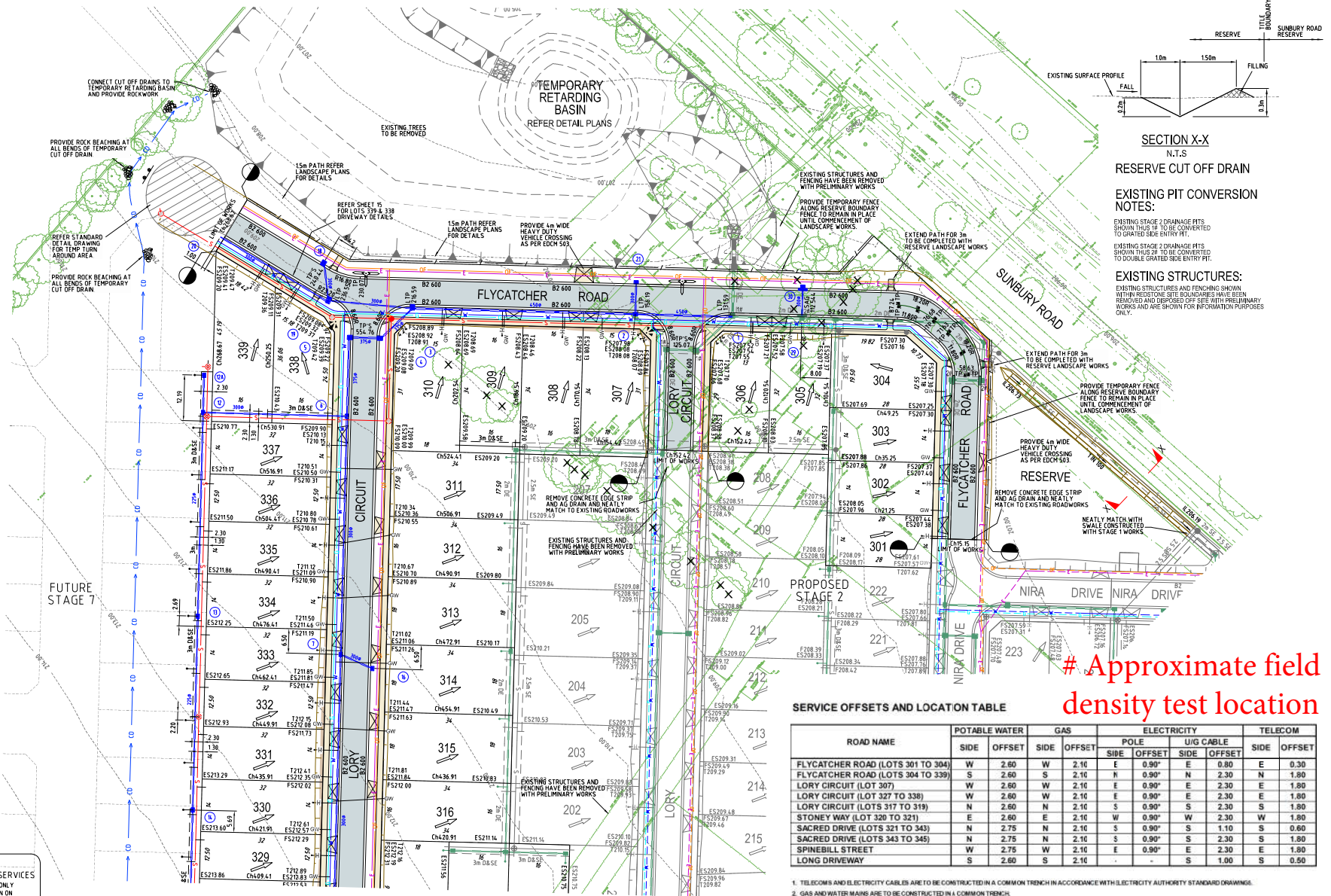
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

# FIGURE 1 (1 of 2)



**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.

FOR CONTINUATION REFER SHEET 3

SERVICE OFFSETS AND LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		ELECTRICITY				TELECOM	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	U/G CABLE	U/G CABLE	SIDE	OFFSET
FLYCATCHER ROAD (LOTS 301 TO 304)	W	2.60	W	2.10	E	0.90*	E	0.80	E	0.30
FLYCATCHER ROAD (LOTS 304 TO 339)	S	2.60	S	2.10	N	0.90*	N	2.30	N	1.80
LORY CIRCUIT (LOT 307)	W	2.60	W	2.10	E	0.90*	E	2.30	E	1.80
LORY CIRCUIT (LOT 327 TO 338)	W	2.60	W	2.10	E	0.90*	E	2.30	E	1.80
LORY CIRCUIT (LOTS 317 TO 319)	N	2.60	N	2.10	S	0.90*	S	2.30	S	1.80
STONEY WAY (LOT 320 TO 321)	E	2.60	E	2.10	W	0.90*	W	2.30	W	1.80
SACRED DRIVE (LOTS 321 TO 343)	N	2.75	N	2.10	S	0.90*	S	1.10	S	0.60
SACRED DRIVE (LOTS 343 TO 345)	N	2.75	N	2.10	S	0.90*	S	2.30	S	1.80
SPINEBELL STREET	W	2.75	W	2.10	E	0.90*	E	2.30	E	1.80
LONG DRIVEWAY	S	2.60	S	2.10	-	-	-	1.00	S	0.60

- TELECOMS AND ELECTRICITY CABLES ARE TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRAWINGS.
- GAS AND WATER MAINS ARE TO BE CONSTRUCTED IN A COMMON TRENCH.
- \* DENOTES OFFSET FROM BACK OF KERB.
- LIGHT POLES DIMENSIONED TO CENTRE OF POLE.

0	CONSTRUCTION ISSUE	M.L.	12/1/20
Rev	Amendments	Approved	Date



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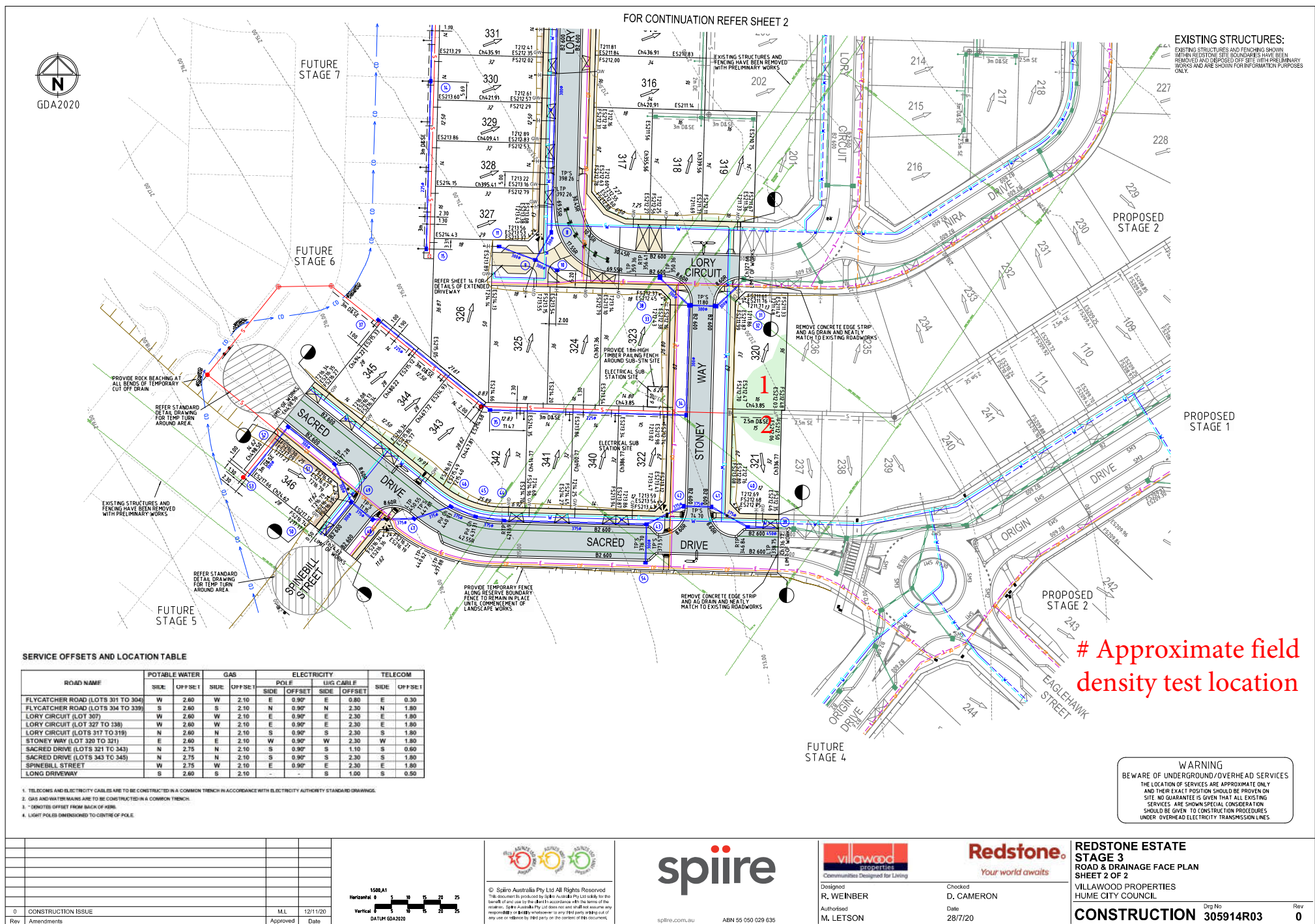
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Designed  
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M. LETSON

**Redstone.**  
Your world awaits  
Checked  
D. CAMERON  
Date  
28/7/20

**REDSTONE ESTATE**  
**STAGE 3**  
**ROAD & DRAINAGE FACE PLAN**  
**SHEET 1 OF 2**  
VILLAWOOD PROPERTIES  
HUME CITY COUNCIL  
**CONSTRUCTION** Drg No **305914R02** Rev **0**

FIGURE 1 (2 of 2)







## COMPACTION ASSESSMENT

### CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 21277  
Report No 21277/R001  
Date Issued 16/07/2021

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	REDSTONE ESTATE - STAGE 3	Date tested	13/07/21
Location	SUNBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 15:12
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	-	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL						
Measurement depth mm	175	175	-	-	-	-
Field wet density t/m <sup>3</sup>	1.86	1.89	-	-	-	-
Field moisture content %	20.7	17.4	-	-	-	-

Test procedure AS 1289.5.7.1

Test No	1	2	-	-	-	-
Compactive effort	Standard					
Oversize rock retained on sieve mm	19.0	19.0	-	-	-	-
Percent of oversize material wet	0	0	-	-	-	-
Peak Converted Wet Density t/m <sup>3</sup>	1.91	1.92	-	-	-	-
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	-	-	-	-	-	-
Optimum Moisture Content %	22.5	19.4	-	-	-	-

Moisture Variation From Optimum Moisture Content	2.0% dry	2.0% dry	-	-	-	-
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Density Ratio ( $R_{HD}$ )	%	97.5	98.5	-	-	-	-
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Material description

No 1 - 2 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