

24<sup>th</sup> February 2021

Reference No. SMS1.20377-L52.Rev0

Mr. Dhayanand Manoharan  
SEM Group of Companies  
64-66 Barndioota Road  
SALISBURY PLAIN SA 5109

**LOT 1127 OLD PORT WAKEFIELD ROAD– VIRGINIA GROVE STAGE 9, VIRGINIA**

Dear Dhayanand,

SMS Geotechnical Pty Ltd (SMS) was commissioned SEM Group of Companies (SEM) to provide Level 1 earthworks inspection and testing services on Lot 1127 Old Port Wakefield Road on the above project in Virginia, South Australia. The area where fill was placed is shown approximately in Drawing SMS1.20377-F52.Rev0.

Pre and Post fill levels were undertaken by Alexander Symonds Survey Consultants. These levels are detailed in pre-fill level survey Stage 9, Sheedy Road Virginia – drawing number 20A0272.C0009 Lot Subgrade Surface Rev A and post – fill level survey Stage 9, Sheedy Road Virginia – drawing number 20A0272.C0009 Lot Pre Topsoil Rev D.

Level 1 inspection and testing services were carried out by SMS to Australian Standard AS3798-2007 “Guidelines on earthworks for commercial and residential developments” between 6<sup>th</sup> August 2020 and 12<sup>th</sup> February 2020. The subgrade was inspected and showed no signs of organic or unsuitable material. Subgrade proof rolling was witnessed prior to fill being placed and was deemed suitable by SMS’ representative on site.

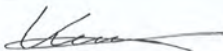
SMS conducted in situ density testing to AS1289.5.8.1 at randomly selected locations throughout areas in which fill was placed as per frequencies outlined in AS3798-2007. The density test results have been issued separately to SEM and are retained in our project file. The required laboratory dry density ratio was achieved on all tests taken during fill placement. Laboratory tests were conducted to AS1289.5.1.1.

On the completion of Level 1 earthworks inspection and testing, SMS advise that the fill placed on Lot 1127 Old Port Wakefield Road as shown in Drawing SMS1.20377-F52.Rev0, was witnessed and in our opinion meets the requirements of “Controlled Fill” as defined in AS3798-2007 and AS2870-2011 “Residential slabs and footings”.

However, it should be recognised that the passage of time affects the information provided in this letter. SMS’s opinions are based upon information that existed at the time that our services were provided. The services allowed SMS to form no more than an opinion of the fill placement undertaken under our Level 1 inspection and testing services at the times the earthworks were carried out. These services cannot be used to assess the effect of any subsequent further works at the site.

If you have any questions relating to this project or require any additional information, please contact our office on (08) 8258 7498.

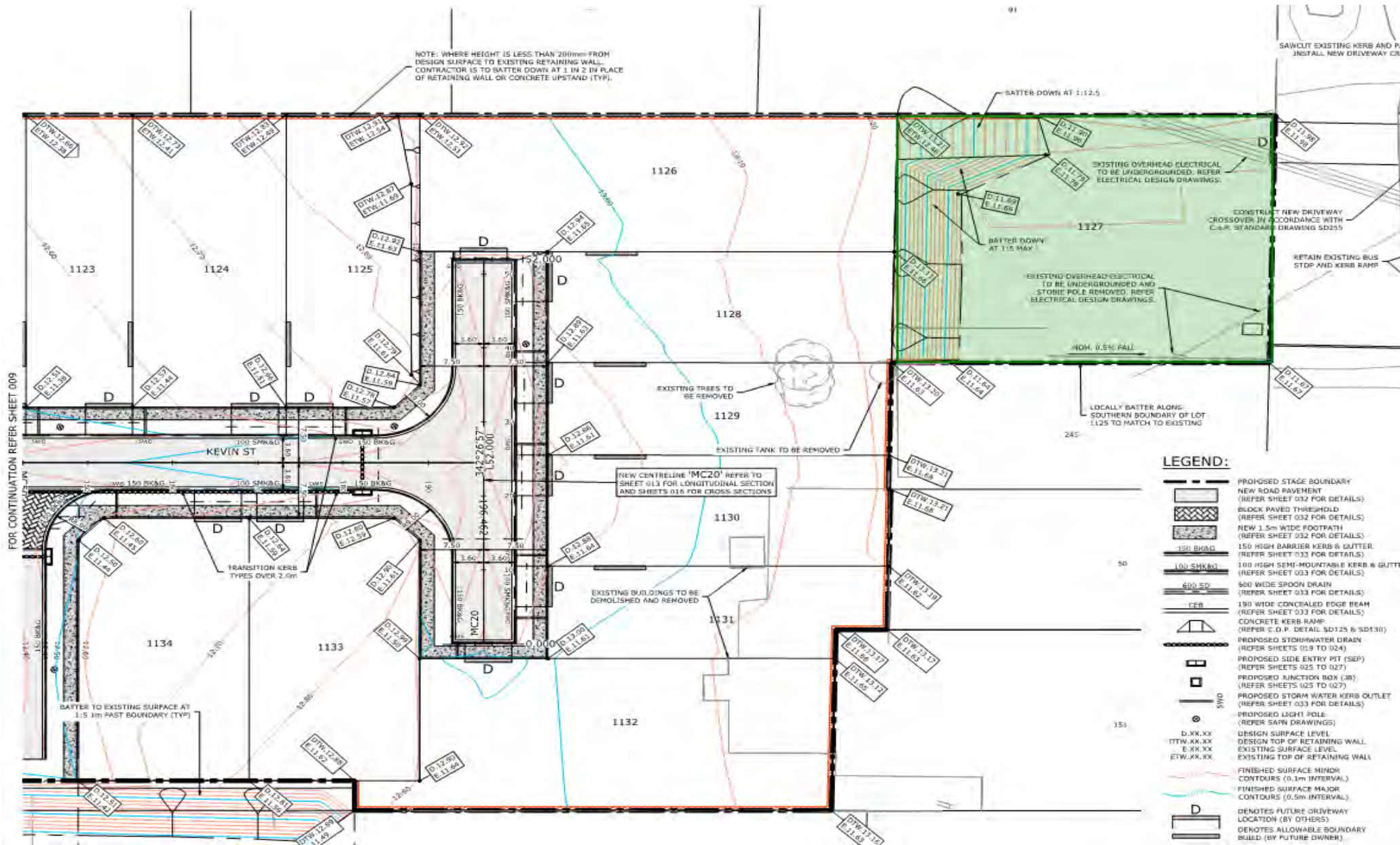
**SMS GEOTECHNICAL PTY LTD**



**Luke Garcia**  
Business Development Manager

**Attachments:**

1. Drawing SMS1.20377-F52.Rev0
2. Alexander Symonds Survey Consultants - pre-fill level survey Stage 9, Sheedy Road Virginia – drawing number 20A0272.C0009 Lot Subgrade Surface Rev A
3. Alexander Symonds Survey Consultants - post – fill level survey Stage 9, Sheedy Road Virginia – drawing number 20A0272.C0009 Lot Pre Topsoil Rev D.



Approx. Fill Location

**SMS**  
**GEOTECHNICAL**  
*Quality in Construction*

Drawn:	LG	Date:	24.02.2021
Checked:	DM	Date:	24.02.2021
Revision:		Date:	
Scale:	NTS		A4

**SEM GROUP**  
**VIRGINIA GROVE STAGE 9**  
**VIRGINIA**  
**SITE PLAN**

Project No.:	SMS1.20377	Drawing No.:	SMS1.20377-F52.Rev0
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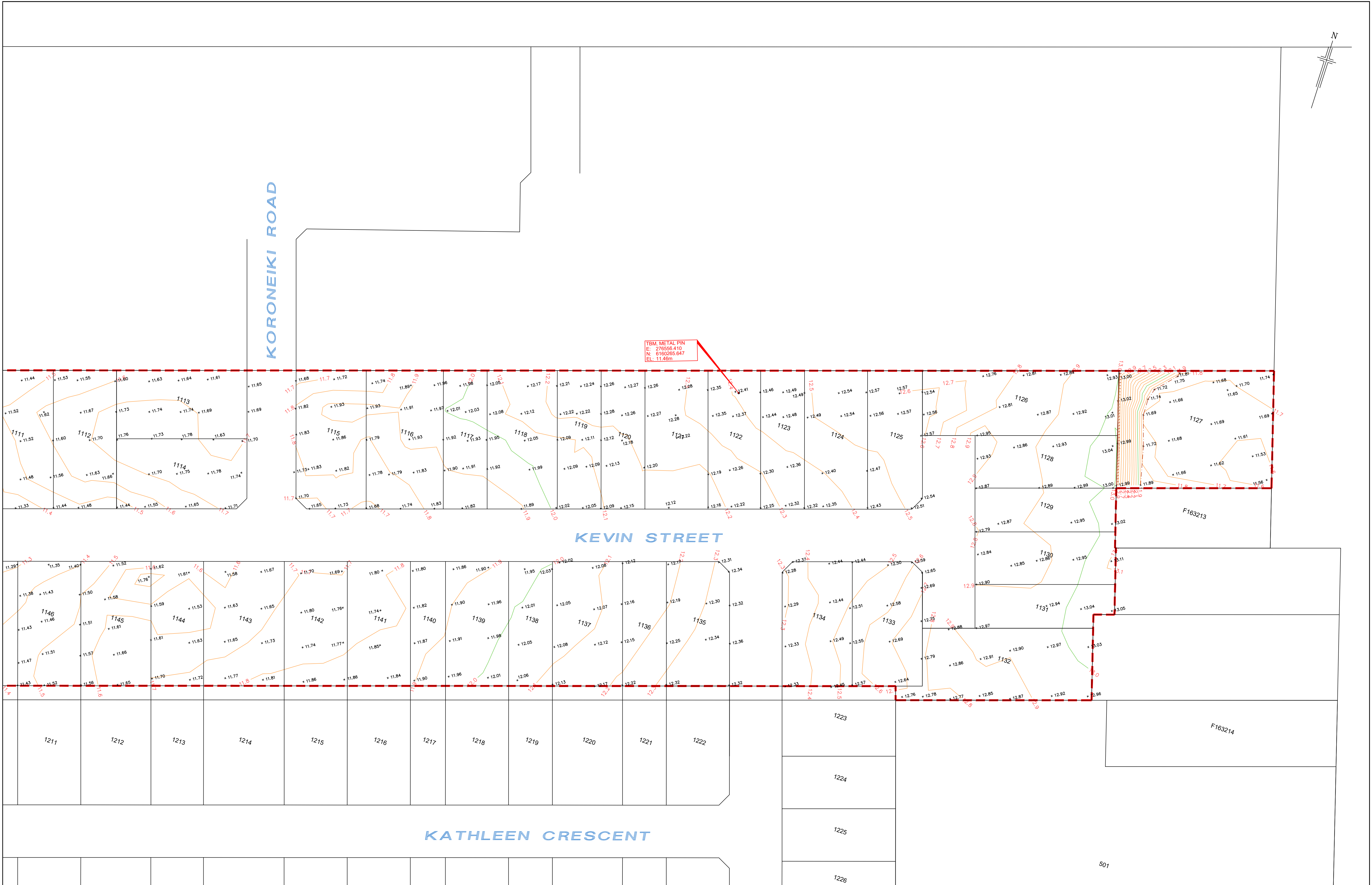


A	21/09/2020	ADDITIONAL DETAILS ADDED	JWS	JK	47.51TK TOP KERB 47.36WT WATER TABLE 45.16FL FLOOR LEVEL 48.12IL INVERT LEVEL or TAP WATER METER SPRINKLER / IRRIG VALVE HYDRANT DOMESTIC OUTLET DOWNPIPE DOMESTIC SUMP STORMWATER M/HOLE SEP / GRATING	TEL COMM. PILLAR / PIT TRAFFIC LIGHT SIGN / BUS SIGN LITTER BIN MAIL BOX / SIGNAL BOX TICKET MACHINE ROAD / ELEC. SERVICE WATER SV / FP ELEC. / GAS METER GAS SERVICE	PSM PEG / TBM SURVEY MARKS BOREHOLE POWER / LIGHT POLE CABLE MARKER STOBIE / WOODEN POLE POST / BOLLARD SEWER MH / IO / SIP UNKNOWN POINT / SERVICE	EDGE OF VEGET. ROAD SIGN / HOARD. TREE / SHRUB Possible REGULATED / SIGNIFICANT TREE by measurement only (trunk greater than 2.0m circumference). Professional advice from council / arborist required.	BOTTOM OF BANK TOP OF BANK CHANGE OF GRADE DRAIN SEWER PIPE UG TEL. COMM. UG WATER PIPE UG BUILDING WALL GI BUILDING CONCRETE FENCE GATE	<b>COORDINATE SYSTEM</b> VERTICAL: AHD HORIZONTAL: GROUND PLANE ORIENTED TO: MGA 94 ZONE 54 SCALE: GROUND (CSF = 1.0002175)		0 5 10 20 30 40 50 m 1:500 ORIGINAL SHEET SIZE A1		Alexander & Symonds Pty Ltd 11 King William Street Kent Town, South Australia 5067 PO Box 1000 Kent Town, SA 5071 ABN 93007 753 988 T (08) 8130 1666 F (08) 8362 0099 W www.alexander.com.au E adelaide@alexander.com.au + Property + Land Development + + Construction + Mining + + Spatial Information Management +		<b>PRE-FILL LEVEL SURVEY STAGE 9, SHEEDY ROAD VIRGINIA</b>		DRAWING No. 20A0272.C0009 Lot Subgrade Surface Rev A	SHEET 1 OF 2	REVISION A
										<b>ADOPTED STATION &amp; AUTHORITY</b> PSM 6628/33640 RL: 9.493m SDB PSM 6628/33640 E: 275664.180 SDB N: 6159821.144 SDB SDB denotes SA Government survey data base values (Dated: / / 2015)		Notes: Property boundaries and easements shown hereon have been compiled from government records and show discrepancies to Certificate of Title dimensions. Boundaries have not been verified by field survey. Construction or design on or near boundaries or easements will require additional survey work.		CONTOUR INTERVAL: MIN 0.2m; MAJ 1.0m SURVEY: BMD 25.08.2020 DRAWN: JWS 26.08.2020 CHECKED: RES 26.08.2020						









REV	DATE	DESCRIPTION
A	19.11.2020	ADDITIONAL LOT LEVELS ADDED
B	16.12.2020	ADDITIONAL LOT LEVELS ADDED
C	11.02.2021	ADDITIONAL LOT LEVELS ADDED
D	17.02.2021	ALLOTMENT LEVELS FOR 1127 ADDED

JWS	RES
AL	PSW
AMP	NM

47.51TK TOP KERB

47.36WT WATER TABLE

45.16FL FLOOR LEVEL

48.12IL INVERT LEVEL

or TAP

WATER METER

SPRINKLER / IRRIG VALVE

HYDRANT

DOMESTIC OUTLET

DOWNPIPE

DOMESTIC SUMP

STORMWATER M/HOLE

SEP / GRATING

TEL COMM. PILLAR / PIT

TRAFFIC LIGHT

SIGN / BUS SIGN

MAIL BOX / SIGNAL BOX

TICKET MACHINE

ROAD / ELEC. SERVICE

WATER SV / FP

ELEC. / GAS METER

GAS SERVICE

PSM

PEG / TBM

SURVEY MARKS

BOREHOLE

POWER / LIGHT POLE

CABLE MARKER

STONE / WOODEN POLE

POST / BOLLARD

SEWER MH / JO / SIP

UNKNOWN POINT / SERVICE

EDGE OF VEGET.

ROAD SIGN / HOARD.

TREE / SHRUB

Possibly REGULATED / SIGNIFICANT TREE by measurement only (trunk greater than 2.0m circumference). Professional advice from council / arborist required.

BOTTOM OF BANK

TOP OF BANK

CHANGE OF GRADE

DRAIN

SEWER PIPE UG

TEL. COMM. UG

WATER PIPE UG

BUILDING

WALL

GI BUILDING

CONCRETE

FENCE

GATE

COORDINATE SYSTEM	
VERTICAL:	AHD
HORIZONTAL:	GROUND PLANE ORIENTED TO: MGA 94 ZONE 54
SCALE: GROUND (CSF = 1.0002175)	
ADOPTED STATION & AUTHORITY	
PSM 6628/33640	RL: 9.493m SDB
PSM 6628/33640	E: 275664.180 SDB
	N: 6159821.144 SDB
SDB denotes SA Government survey data base values (Dated: / / 2015)	

0 5 10 20 30 40 50 m

1:500

ORIGINAL SHEET SIZE A1

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Notes:  
Property boundaries and easements shown hereon have been compiled from government records and show discrepancies to Certificate of Title dimensions.  
Boundaries have not been verified by field survey.  
Construction or design on or near boundaries or easements will require additional survey work.

CONTOUR INTERVAL: MIN 0.1m; MAJ 1.0m

SURVEY: PSW 18.09.2020

DRAWN: JWS 22.09.2020

CHECKED: RES 22.09.2020

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+ Property + Land Development +

+ Construction + Mining +

+ Spatial Information Management +

Alexander Symonds

Surveying Consultants

POST-FILL LEVEL SURVEY  
STAGE 9, SHEEDY ROAD  
VIRGINIA

DRAWING No.

20A0272.C0009 Lot Pre Topsoil Rev D

SHEET 2 OF 2

REVISION

D