

## **Appendix 9 – MRD Tandem Drive N2**

 Found 1 results

 **Tandem Drive Network 2 With Conditions**  
Clydesdale Rd

## **Appendix 10 – MRD Tandem Drive N2 Conditions**



## i Tandem Drive Network 2 With Conditions Clydesdale Rd

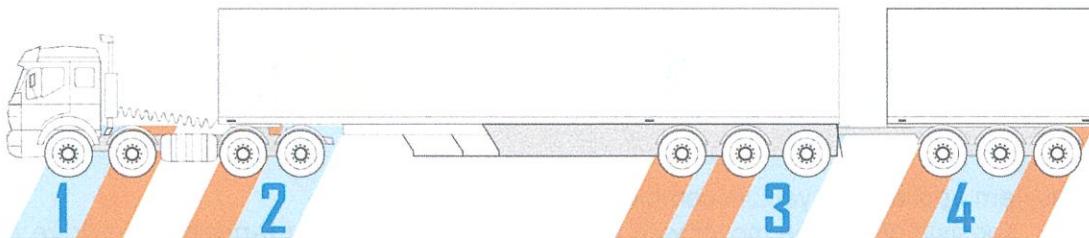
OBJECT ID	63511
Road	4211159
Road Name	Clydesdale Rd
Start SLK	0
End SLK	13.98
Network Type	Local Road
Local Government Network	Northam
From Intersection	Tandem Drive Network 2
To Intersection	Great Eastern Hwy Meenaar North Rd
Comments	Null
Max Speed	Maximum speed 60 km/h
Curfew	Null
Conditions	See Low Volume Condition Type A in the Operating Conditions
Products	Null

X  
Found 1 results  
► **Tandem Drive Network 2 With Conditions**  
Clydesdale Rd

**Appendix 11 – MRD  
RAV Category 2  
Combinations**

## RAV CATEGORY 2

### A. RAV Category 2 — Prime Mover, Semi Trailer towing a Pig Trailer - 27.5 m, 65.5 t



#### Vehicle

5.1 This item applies to a vehicle combination that:

- (a) consists of a prime mover with a single steer or twinsteer axle group and a semi trailer with one (1), two (2) or three (3) axles towing a pig trailer or converter dolly with one (1), two (2) or three (3) axles where the height of the pig trailer and its load (if any) is not more than 3.5 m when measured vertically from the ground;
- (b) has four (4) axle groups; and
- (c) is not carrying a load on the converter dolly.

#### Conditions

5.2 This vehicle combination may operate on the "RAV Network" prescribed below, provided that:

- (a) it complies with the minimum axle spacing requirements specified in Table A of Clause 6;
- (b) it does not exceed 27.5 m in length;
- (c) the height of a semi trailer may exceed 4.3 m, but not exceed 4.6 m where the trailer is:
  - (i) built to carry livestock;
  - (ii) carrying a crate built to carry livestock;
  - (iii) carrying vehicles on more than one deck; or
  - (iv) carrying an overhead indivisible load(s) or multi-modal container(s);

#### Network

- 5.3 (a) The vehicle combination must not be driven on any road except a road specified in RAV Network 2, subject to the conditions (if any) specified in the Road Tables;
- (b) In addition to paragraph (a), vehicle combinations above 4.3 m in height must not be driven on the section of Kwinana and Mitchell Freeway between Leach Highway and Powis Street Perth.

#### Exemptions

5.4 This vehicle combination is exempt from the following provisions:

- (a) 177(1) of the *Road Traffic (Vehicles) Regulations 2014* (Height of vehicles).

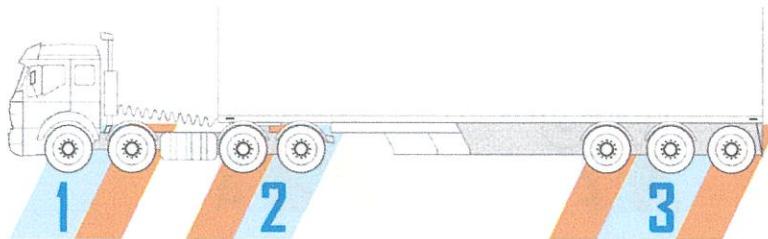
#### Note

Converter Dolly: Current legislation<sup>1</sup> allows a concession from some of the braking requirements for the towing of unloaded converter dollies in certain circumstances. This is to prevent the wheels of the dolly from skidding when braking. The following is provided as an explanation of that legislative allowance:

<sup>1</sup> Road Traffic (Vehicles) Regulations 2014 r 340 (2)

If the prime mover has a GVM over 12 T and the converter dolly weighs less than 3 T, then the brake control line to the unladen converter dolly may be disconnected providing the supply line remains connected at all times. An unloaded converter dolly must have mudguards covering all wheels.

## B. RAV Category 2 — Prime Mover towing a Semi Trailer - 20 m, 47.5 t



### Vehicle

- 6.1 This item applies to a vehicle combination that:
- (a) consists of a prime mover with a single steer or a twinsteer axle group towing a semi trailer with one (1), two (2) or three (3) axles; and
  - (b) has three (3) axle groups.
- 6.2 The semi trailer may be a 16.15 m (53') long trailer where the "S" dimension is not more than 10.5 m and the rear overhang is not more than 4.2 m where the load consists of a freight container longer than 48' and up to 53' in length and the load does not project beyond the rear of the trailer.

### Conditions

- 6.3 This vehicle combination may operate on the "RAV Network" prescribed below, provided that:
- (a) it complies with the minimum axle spacing requirements specified in Table A of Clause 6;
  - (b) it does not exceed 20 m in length;
  - (c) the height of a semi trailer may exceed 4.3 m, but not exceed 4.6 m where the trailer is:
    - (i) built to carry livestock;
    - (ii) carrying a crate built to carry livestock;
    - (iii) carrying vehicles on more than one deck; or
    - (iv) carrying overheight indivisible load(s) or multi modal container(s);

### Network

- 6.4 (a) The vehicle combination must not be driven on any road except a road specified in RAV Network 2, subject to the conditions (if any) specified in the Road Tables;
- (b) In addition to paragraph (a), vehicle combinations above 4.3 m in height must not be driven on the section of Kwinana and Mitchell Freeway between Leach Highway and Powis Street Perth.

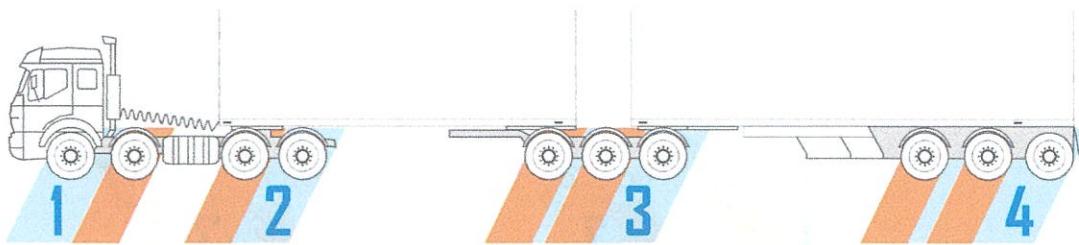
### Exemptions

- 6.5 The vehicle combination is exempt from the following provisions:
- (a) 177(1) of the *Road Traffic (Vehicles) Regulations 2014* (Height of vehicles);
  - (b) 173(1) (b) of the *Road Traffic (Vehicles) Regulations 2014* (Distance between point of articulation and rear of semi-trailer) mentioned in subclause 6.2 only;
  - (c) 175(1) of the *Road Traffic (Vehicles) Regulations 2014* (Rear overhang on semi-trailers and dog trailers) mentioned in subclause 6.2 only; and
  - (d) 174(1) (d) of the *Road Traffic (Vehicles) Regulations 2014* (Length of combination)

**Note**

The 'S' dimension is the distance between the point of articulation (king pin) and the line from which the rear overhang is measured (centre of the rear axle group).

**C. RAV Category 2 — B-double - 27.5 m, 67.5 t**



**Vehicle**

7.1 This item applies to a vehicle combination that:

- (a) consists of a prime mover with a single steer or a twinsteer axle group towing two (2) semi trailers with one (1), two (2) or three (3) axles each; and
- (b) has a total of four (4) axle groups.

**Conditions**

7.2 This vehicle combination may operate on the "RAV Network" prescribed below, provided that:

- (a) it complies with the minimum axle spacing requirements specified in Table A of Clause 6;
- (b) it does not exceed 27.5 m in length;
- (c) The two (2) semi-trailers used in a B-double combination must not exceed 22 m in combined length, measured from the front of the lead semi-trailer to the rear of the second semi-trailer (including the space between the semi-trailers and excluding any rounded front or attachment to the front of the lead trailer);
- (d) the height of a semi trailer may exceed 4.3 m, but not exceed 4.6 m where the trailer is:
  - (i) built to carry livestock;
  - (ii) carrying a crate built to carry livestock;
  - (iii) carrying vehicles on more than one deck; or
  - (iv) carrying overheight indivisible load(s) or multi modal container(s);

**Network**

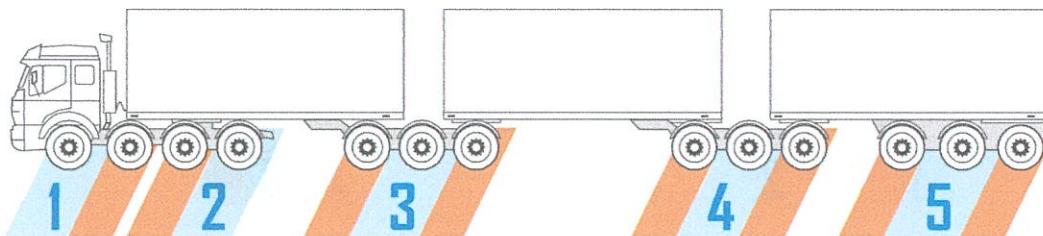
- 7.3 (a) The vehicle combination must not be driven on any road except a road specified in RAV Network 2, subject to the conditions (if any) specified in the Road Tables;
- (b) In addition to paragraph (a), vehicle combinations above 4.3 m in height must not be driven on the section of Kwinana and Mitchell Freeway between Leach Highway and Powis Street Perth.

**Exemptions**

7.4 The vehicle combination is exempt from the following provisions:

- (a) 177(1) of the *Road Traffic (Vehicles) Regulations 2014* (Height of vehicles); and
- (b) 174(1) (a) of the *Road Traffic (Vehicles) Regulations 2014* (Length of B-double).

## D. RAV Category 2 — Short B-triple - 27.5 m, 87.5 t



### Vehicle

8.1 This item applies to a vehicle combination that:

- (a) consists of a prime mover with a single steer or twin steer axle group and tandem axle drive group towing three (3) consecutive semi trailers each with one (1), two (2) or three (3) axles; and
- (b) has a total of five (5) axle groups.

### Conditions

8.2 This vehicle combination may operate on the "RAV Network" prescribed below, provided that:

- (a) it complies with the minimum axle spacing requirements specified in Table A of Clause 6;
- (b) it does not exceed 27.5 m in length;
- (c) the height of a semi trailer may exceed 4.3 m, but not exceed 4.6 m where the trailer is:
  - (i) built to carry livestock;
  - (ii) carrying a crate built to carry livestock;
  - (iii) carrying vehicles on more than one deck; or
  - (iv) carrying over height indivisible load(s) or multi modal container(s);

### Network

8.3 (a) The vehicle combination must not be driven on any road except a road specified in RAV Network 2, subject to the conditions (if any) specified in the Road Tables;  
(b) In addition to paragraph (a), vehicle combinations above 4.3 m in height must not be driven on the section of Kwinana and Mitchell Freeway between Leach Highway and Powis Street Perth.  
(c) A RAV must not be driven over a restricted bridge specified as a condition for the following roads in the RAV Network 2 Road Tables:

Carnarvon - Mullewa Rd (Shire of Murchinson)  
Coalseam Rd (Shire of Mingenew)  
Crossman – Dwarda Rd (Shire of Wandering)  
Cubbine Rd (Shire of Quairading)  
Coorow – Greenhead Rd (Shire of Coorow)  
Dangin – Mears Rd (Shire of Brookton and Shire of Quairading)  
Bristol Rd (Shire of Waroona)  
Beecroft Rd (Shire of Goomalling)  
Badjaling South Rd (Shire of Quairading)  
Kellerberrin – Shackleton Rd (Shire of Bruce Rock and Shire of Kellerberrin)  
Belka East Rd (Shire of Bruce Rock)  
Vietch Rd (Shire of Bruce Rock)

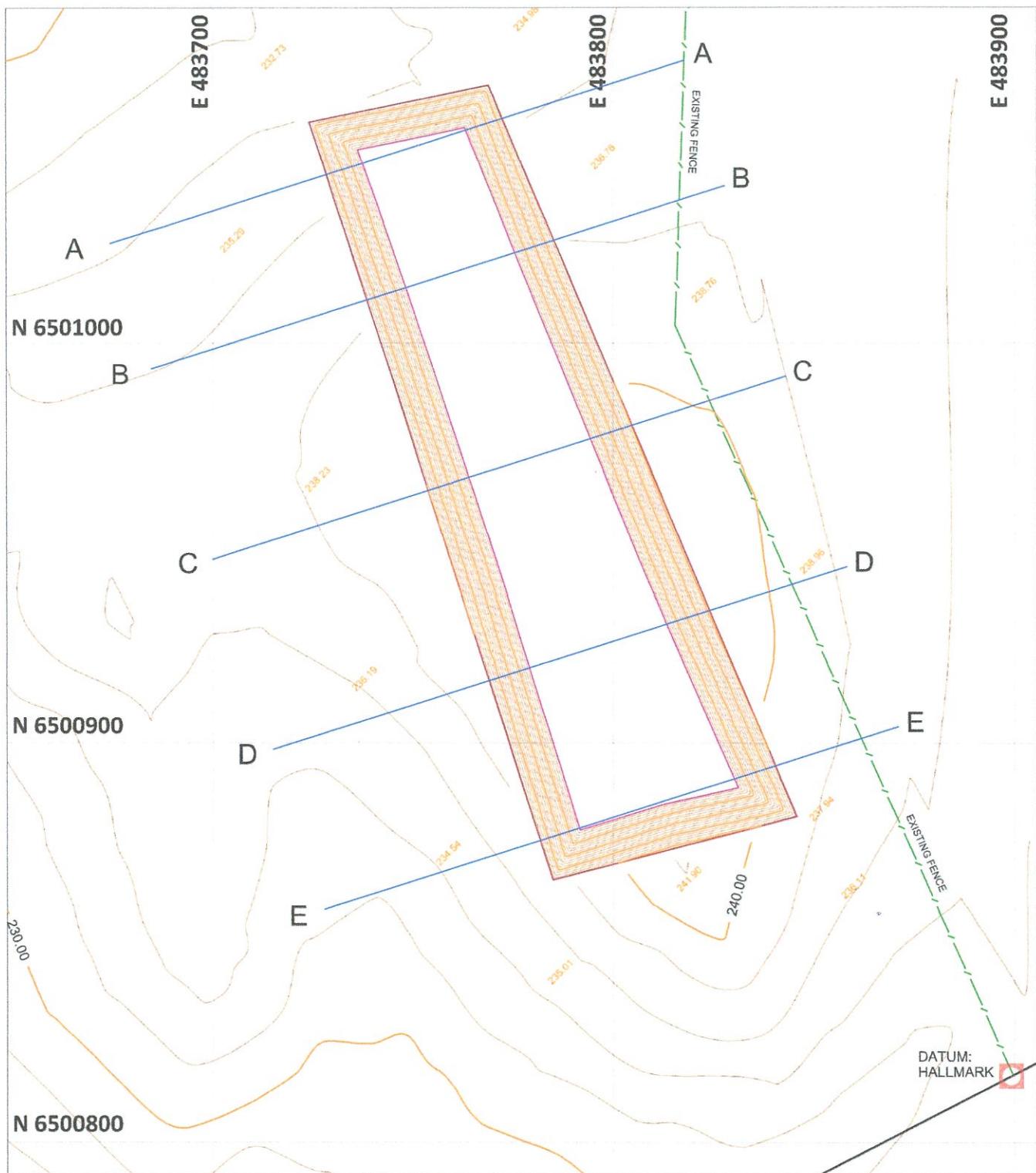
### Exemptions

8.4 This vehicle combination is exempt from the following provisions:

- (a) 177(1) of the *Road Traffic (Vehicles) Regulations 2014* (Height of vehicles)

## **Appendix 12**

### **SE Pit Design**



Legend	
Proposed Top of Pit	
Proposed Pit Floor	
Cross Sections	
Boundary	
Fence	
Surface Height	

0 10 20 30 40 50m  
1:1000 1:1000 at A3 size

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REV	DATE	DESCRIPTION	DRAWN	SURVEYOR	APPROVED
A	24/04/2018	PROPOSED PIT PRELIM. ISSUE	AC	-	SUS

CLIENT	RESOURCES GROUP (WA) Pty Ltd	PROJECTION	HORIZONTAL : MGA94 VERTICAL : Approx AHD	LIMITATIONS OF USE: The contents of this plan are current and correct as of the date stated within the revision panel. All consultants and persons intending to use this data should satisfy themselves of the plans currency by contacting Total Project Consultants.
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 Total Project Consultants

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• project managers

• licensed surveyors

• town planning

PROPOSED PIT SE AREA ON PART  
LOT 150 ON DP 300080  
CLYDESDALE ROAD,  
GRASS VALLEY

JOB No.  
J2018066

PLAN No.  
J2018066 03

SCALE:  
1:1000 @ A3

REVISION:  
A



#### Notes:

- This plan has been prepared for RESOURCES GROUP Pty. Ltd. and should not be used for any other purpose or by any third party unless authorised in writing by Total Project Consultants Pty Ltd;
- Prior to the commencement of any work, relevant authorities should be contacted for the location of all underground services;
- Levels are based on SSM PTH 26 and prior to any construction must be verified with a second AHD datum;
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- Due to overwriting some levels may be switched off for this plan only and;
- This note is an integral part of this plan and must not be removed.
- Boundaries have been re-established but not pegged. Prior to the commencement of any works boundaries should be pegged.

#### Legend

- Proposed Top of Pit Boundary
- Fence
- Surface Height

PT	NORTHING	EASTING
①	6501055.241	483724.323
②	6501064.539	483768.894
③	6500865.713	483784.972
④	6500881.560	483845.745
⑤	6500816.680	483802.054
⑥	6500766.196	483899.190
⑦	6500758.007	483750.606
⑧	6500788.330	483565.570

0 50 100 150 200 250m  
1:5000 1:5000 at A3 size

REV	DATE	DESCRIPTION	DRAWN	SURVEYOR	APPROVED
A	24/04/2018	PROPOSED PIT PNE.I.M. ISSUE	AC	-	SBS
CLIENT	RESOURCES GROUP (WA) Pty Ltd	PROJECTION HORIZONTAL - MGA VERTICAL - Approx AHD	LIMITATIONS OF USE: The contents of this plan are current and correct as of the date stated within the revision panel. All consultants and persons intending to use this data should satisfy themselves of the plans currency by contacting Total Project Consultants.		

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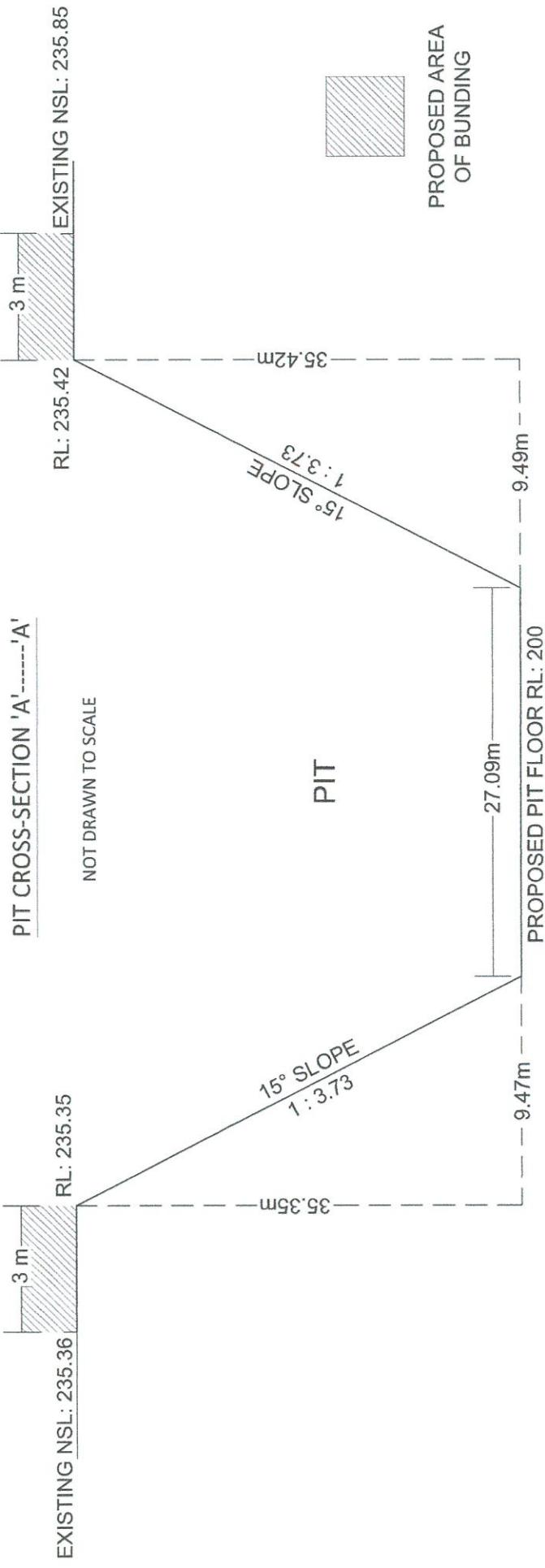
e: admin@totalprojectconsultants.com.au

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- town planning

**PROPOSED SE PIT  
LOCATION PLAN ON PART  
LOT 150 ON DP 300080  
CLYDESDALE ROAD,  
GRASS VALLEY**

JOB No.  
**J2018066**  
PLAN No.  
**J2018066 02**  
SCALE:  
**1:5000 @ A3**  
REVISION:  
**A**

①

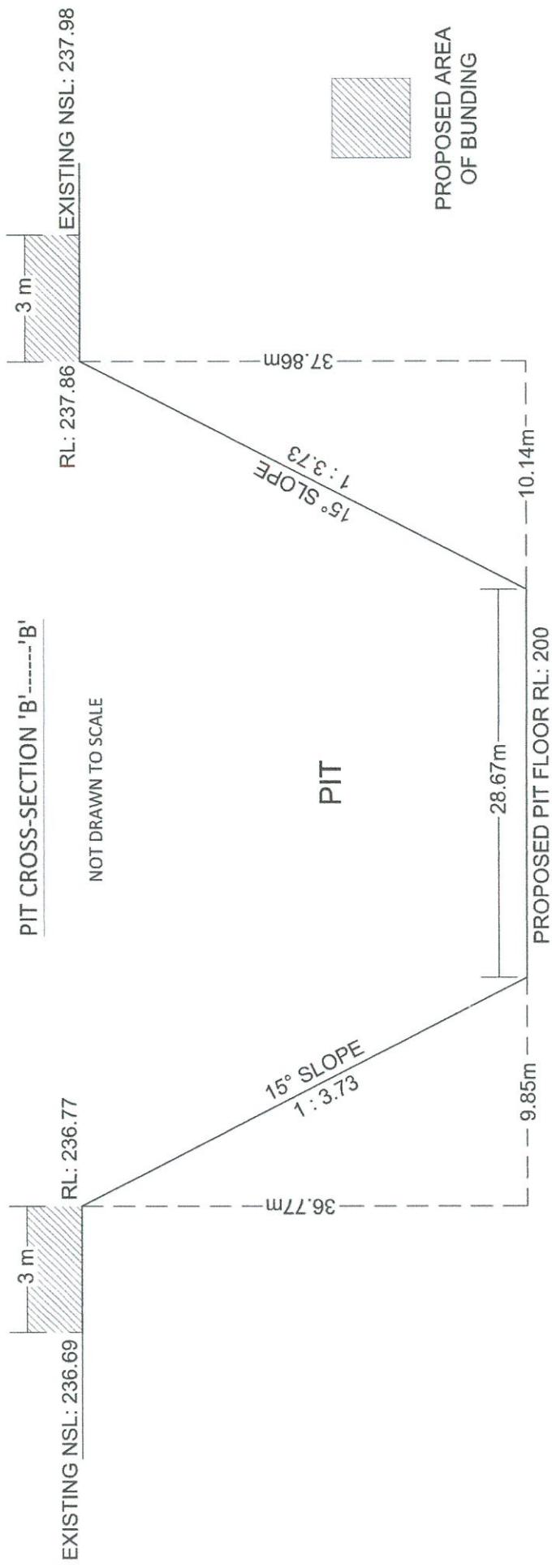


APPROXIMATE PIT DESIGN CAPACITY - 3300000 BCM

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7.	Boundaries have been re-established but not pegged. Prior to the commencement of any works boundaries should be pegged.					

REV	DATE	DESCRIPTION	DRAWN		SURVEYOR	APPROVED	SBS	PROPOSED PIT SE AREA	
			AC	AS				CROSS SECTION PART 1	
A	24/04/2018	PIT CROSS SECTION						J2018066	J2018066
								J2018061	J2018061
								NOT TO SCALE	NOT TO SCALE
								REVISION: A	REVISION: A
								SHEET: 1 OF 5	SHEET: 1 OF 5

(2)



WALL SLOPE GRADIENT = 1 HORIZONTAL TO 3.73 VERTICAL (15°)

APPROXIMATE PIT DESIGN CAPACITY - 330000 BCM

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  - Levels are based on SSM FTH 26 and prior to any construction must be verified with a second AHD datum;
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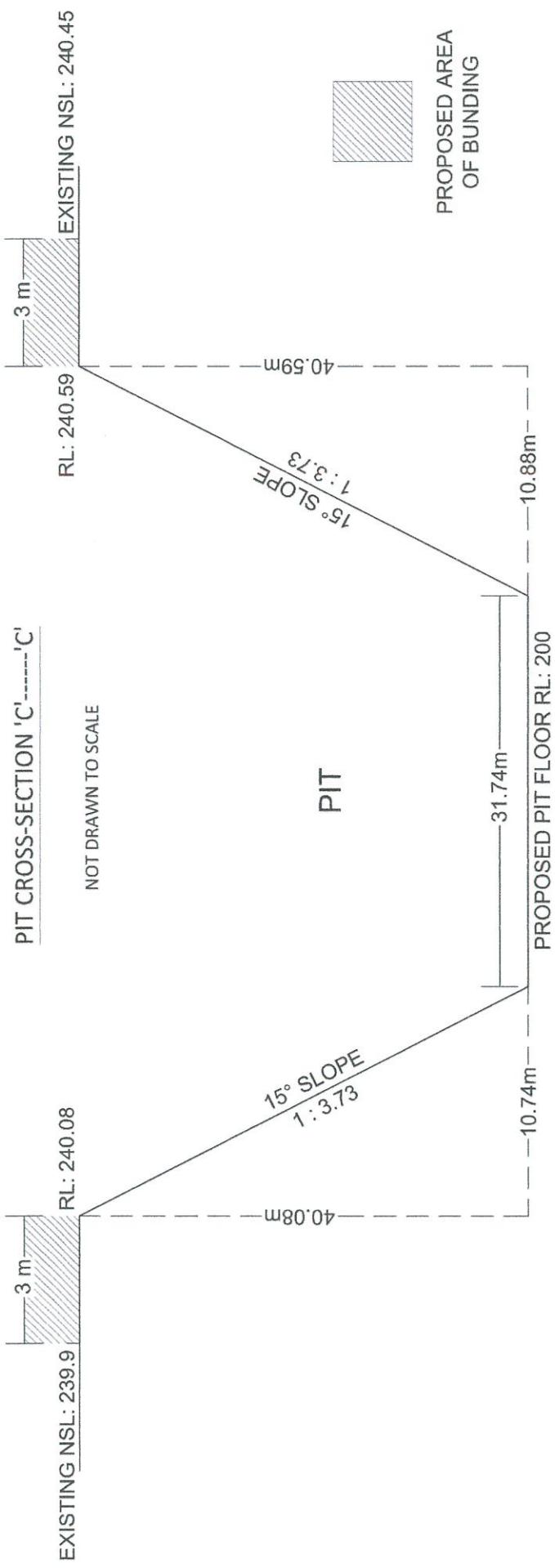
RESOURCES GROUP (WA) Pty. Ltd.	CLIENT	PROJECTION	HORIZONTAL	VERTICAL	Approved	Surveyor	Date	DESCRIPTION	REV
									A

**PROPOSED PIT SE AREA CROSS SECTION PART 2 OVER LOT 150 ON DP 300080 CLYDESDALE ROAD, GRASS VALLEY**

**Total Project Consultants**  
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e:admin@totalprojectconsultants.com.au  
\* project managers  
\* licensed surveyors  
\* Total planning

JOB NO:	J2018066
PLAN NO:	J2018066 01
SCALE:	NOT TO SCALE
REVISION:	A
SHEET:	2 OF 5

(3)



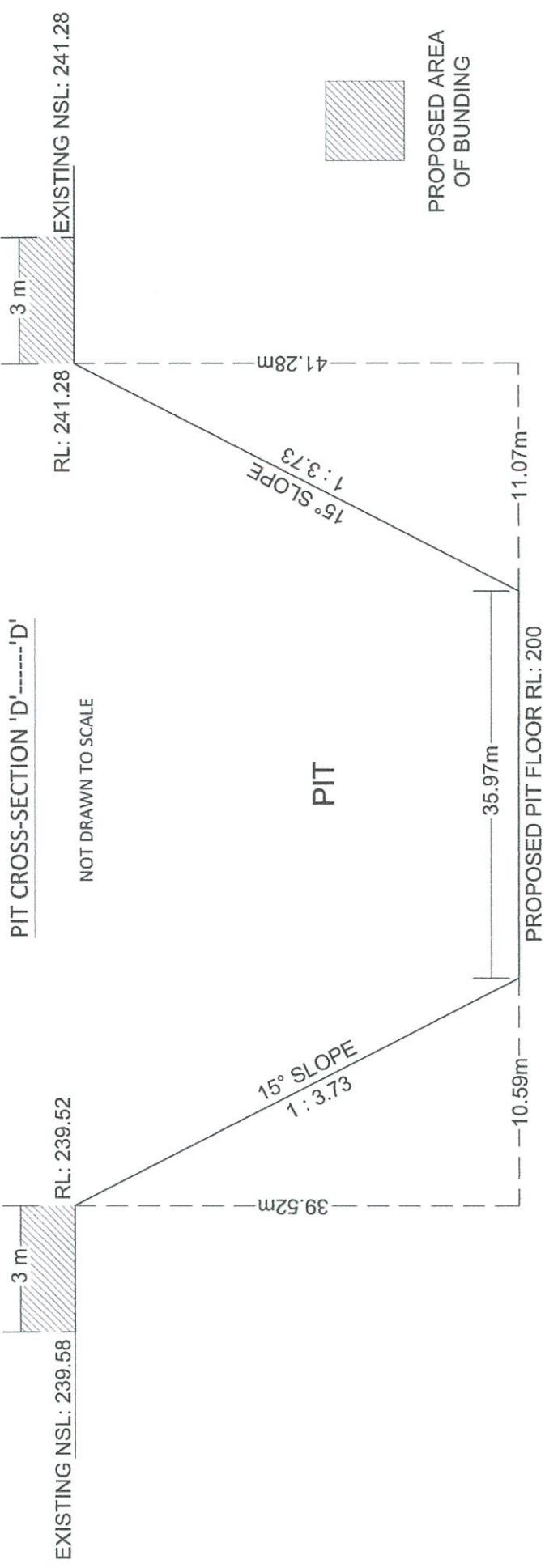
WALL SLOPE GRADIENT = 1 HORIZONTAL TO 3.73 VERTICAL (15°)

APPROXIMATE PIT DESIGN CAPACITY - 3300000 BCM

Notes:						
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3.	Levels are based on SSM FTH 26 and prior to any construction must be verified with a second AHD datum;					
4.	Total Project Consultants Pty Ltd accepts no responsibility for any physical on site changes to the parcel or portion of the parcel shown on this survey including any adjoining neighbours levels and features that have occurred after the date on this survey;					
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CLIENT RESOURCES GROUP (WA) Pty. Ltd.	DATE A 24/04/2018	DESCRIPTION PIT CROSS SECTION	DRAWN AC	SUPERVISED -	APPROVED SBS	Total Project Consultants  p: 08 6141 3154 f: 08 6141 3102 e: admin@totalprojectconsultants.com.au • project managers • licensed surveyors • town planning
			PROJECTION HORIZONTAL	PROJECTION VERTICAL	APPROVAL Apt. No. A-1D	
						PROPOSED PIT SE AREA CROSS SECTION PART 3 OVER LOT 150 ON DP 3000030 CLYDESDALE ROAD, GRASS VALLEY

4



WALL SLOPE GRADIENT = 1 HORIZONTAL TO 3.73 VERTICAL (15°)

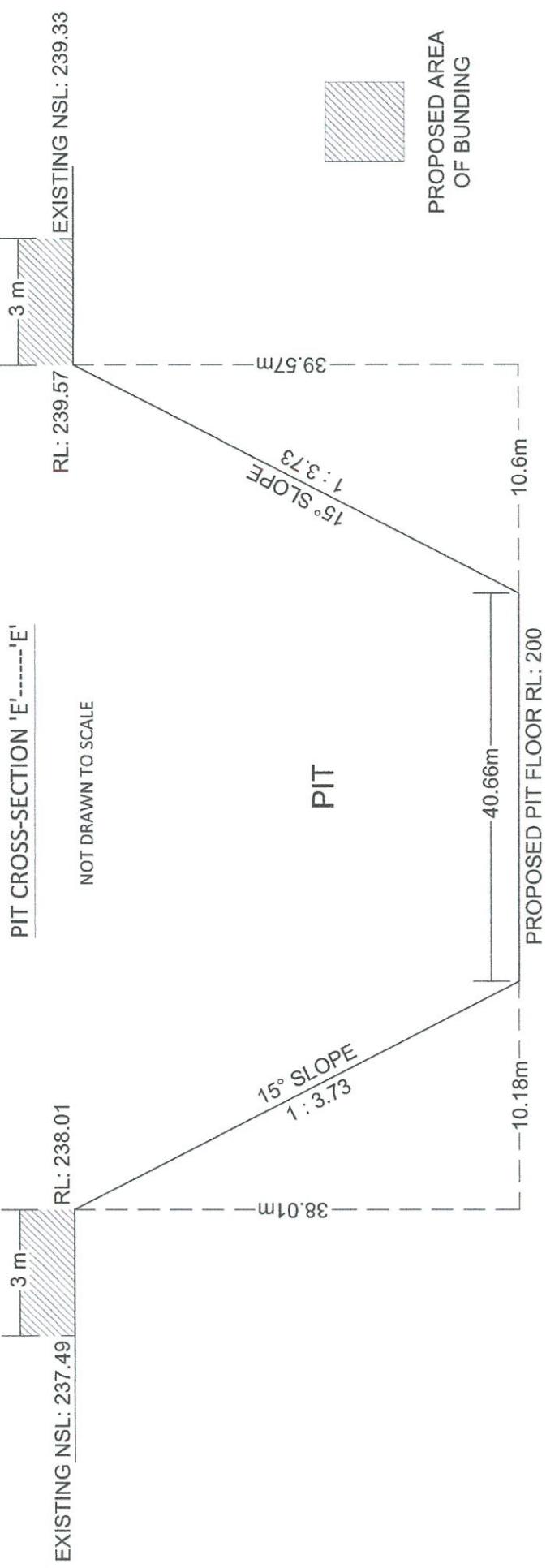
APPROXIMATE PIT DESIGN CAPACITY - 330000 BCM

NOTES:						
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3.	Levels are based on 25M RTK 26 and prior to any construction must be verified with a second AHD datum;					
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PROPOSED PIT SE AREA CROSS SECTION PART 4 OVER LOT 150 ON DP 300030						
REF	DATE	DESCRIPTION	DRAWN	SURVEYOR	APPROVED	JOB NO.
A	24/04/2018	PIT CROSS SECTION	AC	-	SBS	J2018066
						PLAN NO.
						J2018066.01
						SCALE:
						NOT TO SCALE
						REVISION:
						A
						SHEET: 4 OF 5

CLIENT	RESOURCES GROUP (WA) Pty Ltd.	PROJECTION	HORIZONTAL	VERTICAL	Approved	A-D

(5)



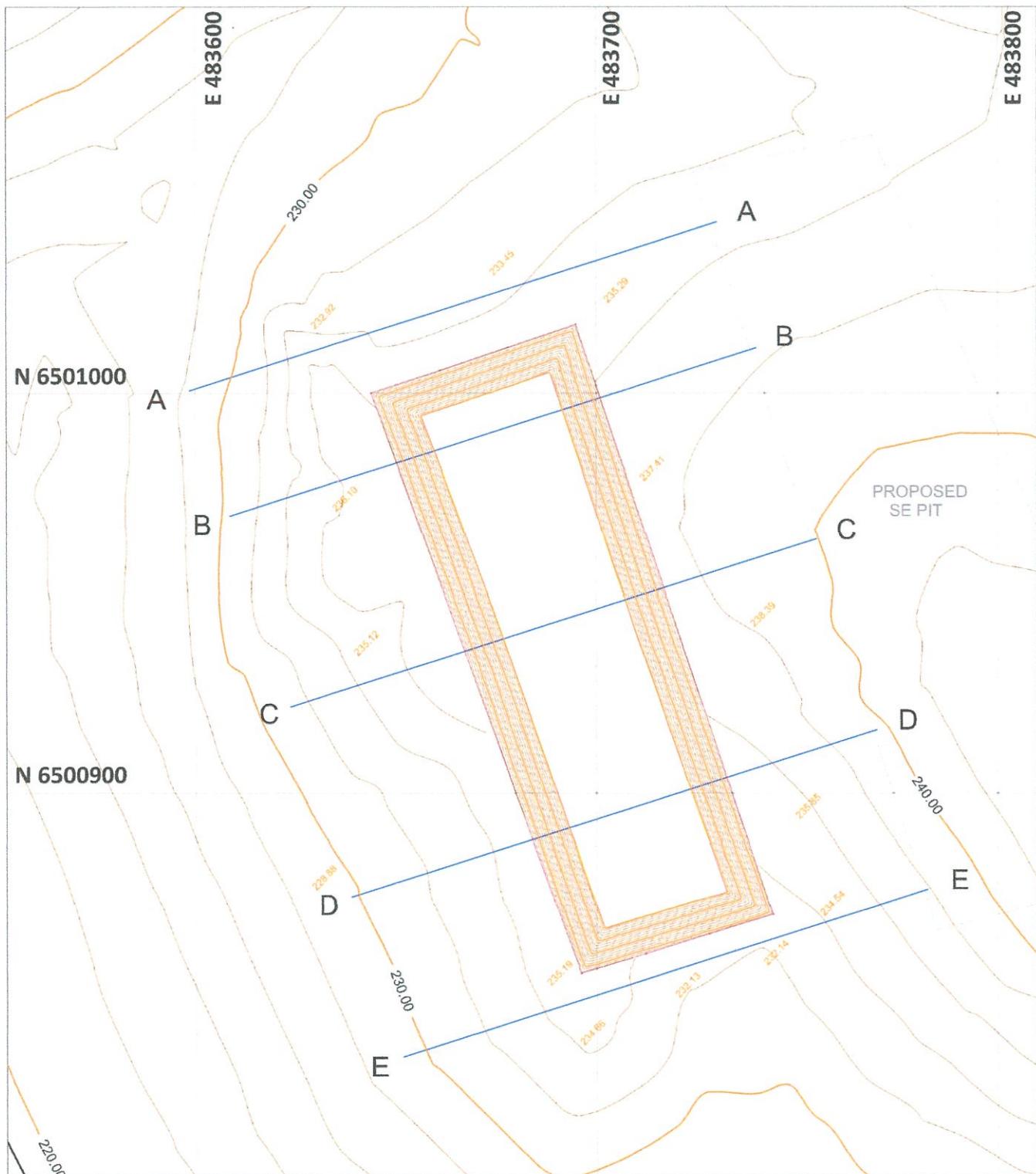
WALL SLOPE GRADIENT = 1 HORIZONTAL TO 3.73 VERTICAL (15°)

APPROXIMATE PIT DESIGN CAPACITY - 330000 BCM

Notes:						
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3.	Levels are based on 25M FTH 26 and prior to any construction must be verified with a second AHD datum.					
4.	Total Project Consultants Pty Ltd accepts no responsibility for any physical on site changes to the parcel or portion of the parcel of land shown on this survey including any adjoining neighbours levels and features that have occurred after the date on this survey;					
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CLIENT <b>RESOURCES GROUP (WA) Pty. Ltd.</b>	REV A	DATE 24/04/2018	DESCRIPTION PIT CROSS SECTION	DRAWN AC	SURVEYOR -	APPROVED SBS	 Total Project Consultants p: 08 9411 3154 f: 08 9411 3101 e: admin@totalprojectconsultants.com.au * licenced surveyors * Total planning	JOB NO. J2018066 PLAN NO. J2018066 01 SCALE NOT TO SCALE REGION A SHEET 5 OF 5
				PRODUCTION WTR ICNL Asph. WTR ICNL Agg. WTR ICNL Agg.	PROJECTION HARDON VAL Local	LIMITATIONS OF USE The contents of this plan are current and correct as of the date stated above the revision panel. All consultants and persons intending to use this data should satisfy themselves of the plan's currency by contacting Total Project Consultants.		

**Appendix 13**  
**SW Pit Design**



**DISCLAIMER**  
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Legend	
Proposed Top of Pit	
Proposed Pit Floor	
Cross Sections	
Boundary	
Surface Height	
559	

0 10 20 30 40 50m  
1:1000 1:1000 at A3 size

REV	DATE	DESCRIPTION	DRAWN	SURVEYOR	APPROVED
A	09/05/2018	PROPOSED PIT PLANIM. ISSUE	AC	-	SUS

CLIENT: RESOURCES GROUP (WA) Pty Ltd PROJECTION: HORIZONTAL - MGA VERTICAL - Approx AHG

LIMITATIONS OF USE:  
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• project managers  
• licensed surveyors  
• town planning

PROPOSED PIT SW AREA ON PART  
LOT 150 ON DP 300080  
CLYDESDALE ROAD,  
GRASS VALLEY

JOB No.  
J2018066  
PLAN No.  
J2018066 05  
SCALE  
1:1000 @ A3  
REVISION  
A



Notes:

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- Total Project Consultants Pty Ltd accepts no responsibility for any physical on site changes to the parcel or portion of the parcel of land shown on this survey including any adjoining neighbours levels and features that have occurred after the date on this survey;
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PT	NORTHING	EASTING
(5)	6500816.680	483802.054
(6)	6500766.196	483859.190
(7)	6500758.007	483750.606
(8)	6500788.330	483565.570
(9)	6501000.000	483644.000
(10)	6501017.162	483694.946
(11)	6500854.837	483696.259
(12)	6500869.678	483744.005

Legend

- Proposed Top of Pit
- Boundary
- Fence
- Surface Height

0 50 100 150 200 250m  
1:5000 1:5000 at A3 size

REV	DATE	DESCRIPTION	DRAWN	SURVEYOR	APPROVED
A	07/05/2018	PROPOSED PIT PROFILE ISSUE	AC	-	SBD
CLIENT:	RESOURCES GROUP (WA) Pty Ltd	PROJECTION HORIZONTAL - MGA VERTICAL - Approx AHD	LIMITATIONS OF USE: The contents of this plan are current and correct as of the date stated within the revision panel. All constants and persons intending to use this data should satisfy themselves of the plans currency by contacting Total Project Consultants.		

**tpc** Total Project Consultants

p: 08 6141 3154 f: 08 6141 3101

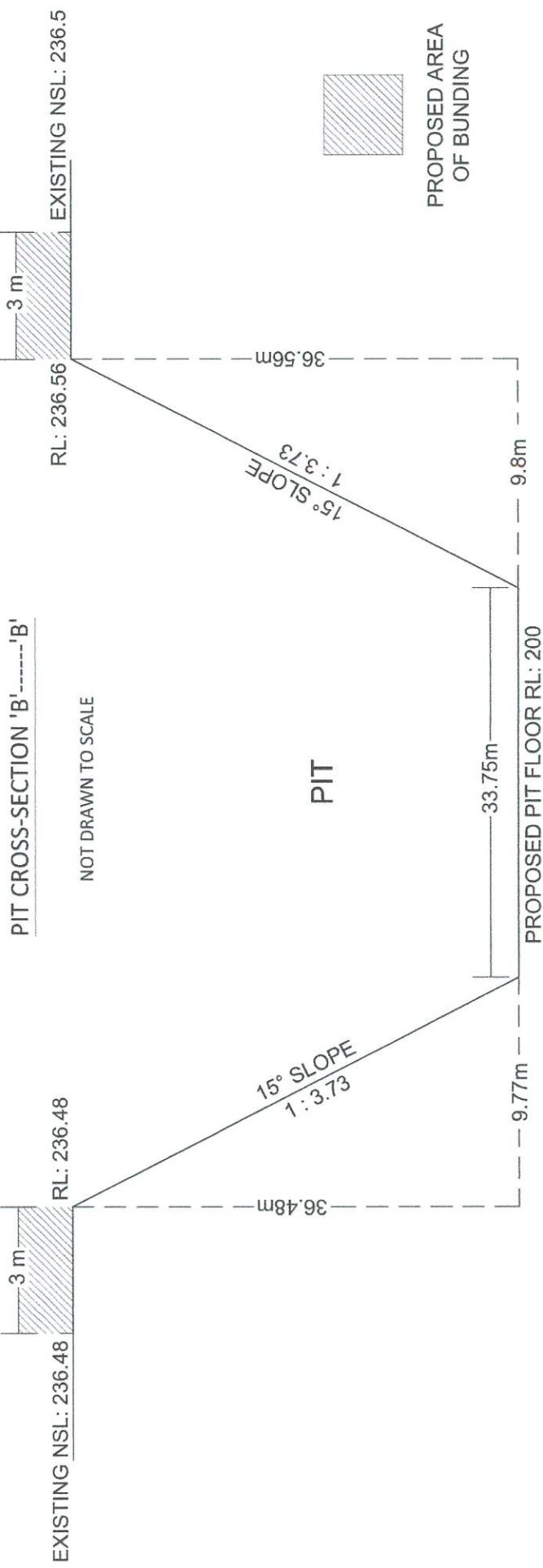
e: admin@totalprojectconsultants.com.au

- project managers
- licensed surveyors
- town planning

PROPOSED SW PIT  
LOCATION PLAN ON PART  
LOT 150 ON DP 300080  
CLYDESDALE ROAD,  
GRASS VALLEY

JOB No.: J2018066  
PLAN No.: J2018066 04  
SCALE: 1:5000 @ A3  
REVISION: A

(6)



WALL SLOPE GRADIENT = 1 HORIZONTAL TO 3.73 VERTICAL (15°)

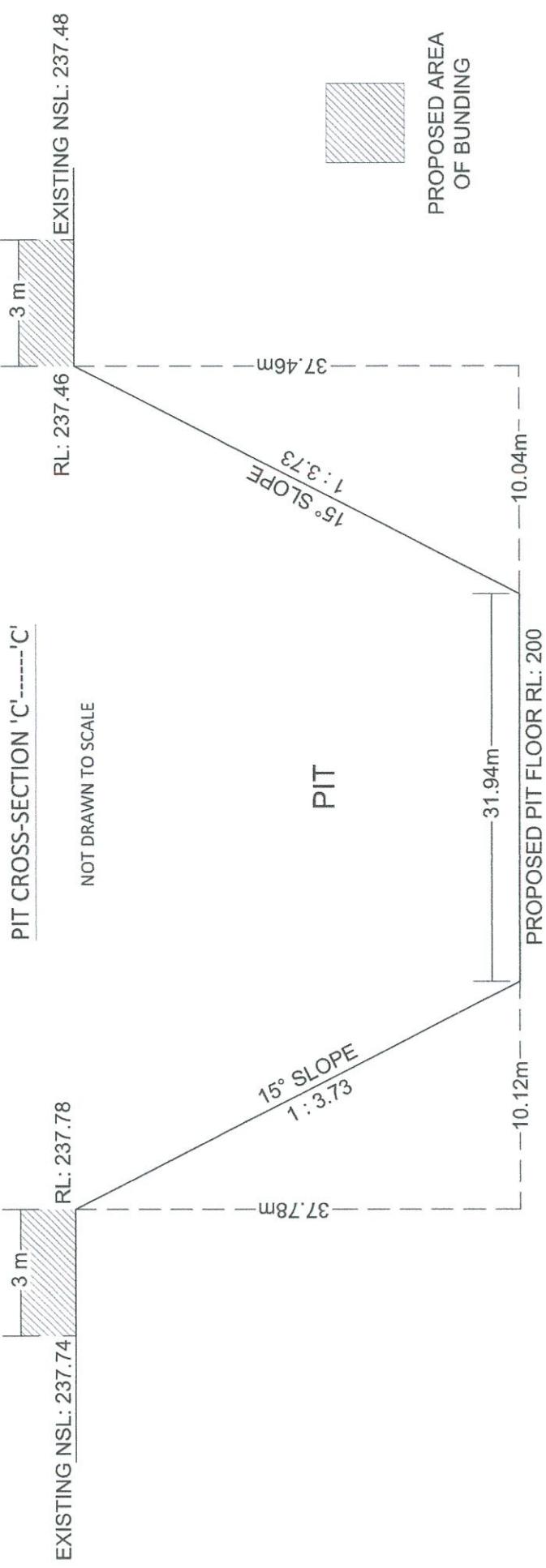
APPROXIMATE PIT DESIGN CAPACITY - 222000 BCM

Notes:						
1.	This plan has been prepared for RESOURCES GROUP (WA) Pty. Ltd. and should not be used for any other purpose or by any third party unless authorised in writing by Total Project Consultants Pty Ltd.					
2.	Prior to the commencement of any work, relevant authorities should be contacted for the location of all underground services;					
3.	Levels are based on SSM PTH 26 and prior to any construction must be verified with a second AHD datum;					
4.	Total Project Consultants Pty Ltd accepts no responsibility for any physical on site changes to the parcel or portion of the parcel of land shown on this survey including any adjoining neighbours levels and features that have occurred after the date on this survey;					
5.	Due to overwriting some levels may be stretched off for this plan only;					
6.	This note is an integral part of this plan and must not be removed.					
7.	Boundaries have been re-established but not pegged. Prior to the commencement of any works boundaries should be <b>PERFED</b> .					

CLIENT	RESOURCES GROUP (WA) Pty. Ltd.	PROJECT INFORMATION		APPROVALS		NOTES
		HORIZONTAL	VERTICAL	DESIGNER	SUPERVISOR	

JOB NO:	J2018066	
PLAN NO:	J2018066 06	
SCALE:	NOT TO SCALE	
REVISION:	A	
SHEET:	1 OF 3	
PROPOSED PIT SW AREA CROSS SECTION PART 6 OVER LOT 150 ON DP 300080 CLYDESDALE ROAD, GRASS VALLEY		

(7)



WALL SLOPE GRADIENT = 1 HORIZONTAL TO 3.73 VERTICAL (15°)

APPROXIMATE PIT DESIGN CAPACITY - 222000 BCM

Notes:						
1.	This plan has been prepared for RESOURCES GROUP (WA) Pty. Ltd. and should not be used for any other purpose or by any third party unless authorised in writing by Total Project Consultants Pty. Ltd.					
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4.	Total Project Consultants Pty. Ltd accepts no responsibility for any physical on site changes to the parcel or portion of the parcel of land shown on this survey including any adjoining neighbours levels and features that have occurred after the date on this survey;					
5.	Due to overwriting some levels may be switched off for this plan only and;					
6.	This note is an integral part of this plan and must not be removed.					
7.	Boundaries have been re-established but not pegged. Prior to the commencement of any works boundaries should be verified.					

CLIENT RESOURCES GROUP (WA) Pty. Ltd.	REV A	DATE 01/05/2018	DESCRIPTION PIT CROSS SECTION	DRAWN AC	SURVEYOR -	APPROVED BBS
			PROJECT ID HORIZONTAL LOCAL		LIMITATIONS OF USE The contents of this plan are current and correct as of the date stated within the revision panel. All conditions and restrictions concerning the use of this data and liability thereof are the responsibility of the project managers. © Licensed Surveyors © Total Project Consultants	
			VERIFICATION VFR ICAL Agency AND			

JOB NO. J2018066	PLAN NO. J2018066 06	SCALE NOT TO SCALE	REVISION A	Sheet 2 of 3

PROPOSED PIT SW AREA  
CROSS SECTION PART 7  
OVER LOT 150 ON DP 300030  
CLYDESDALE ROAD,  
GRASS VALLEY

