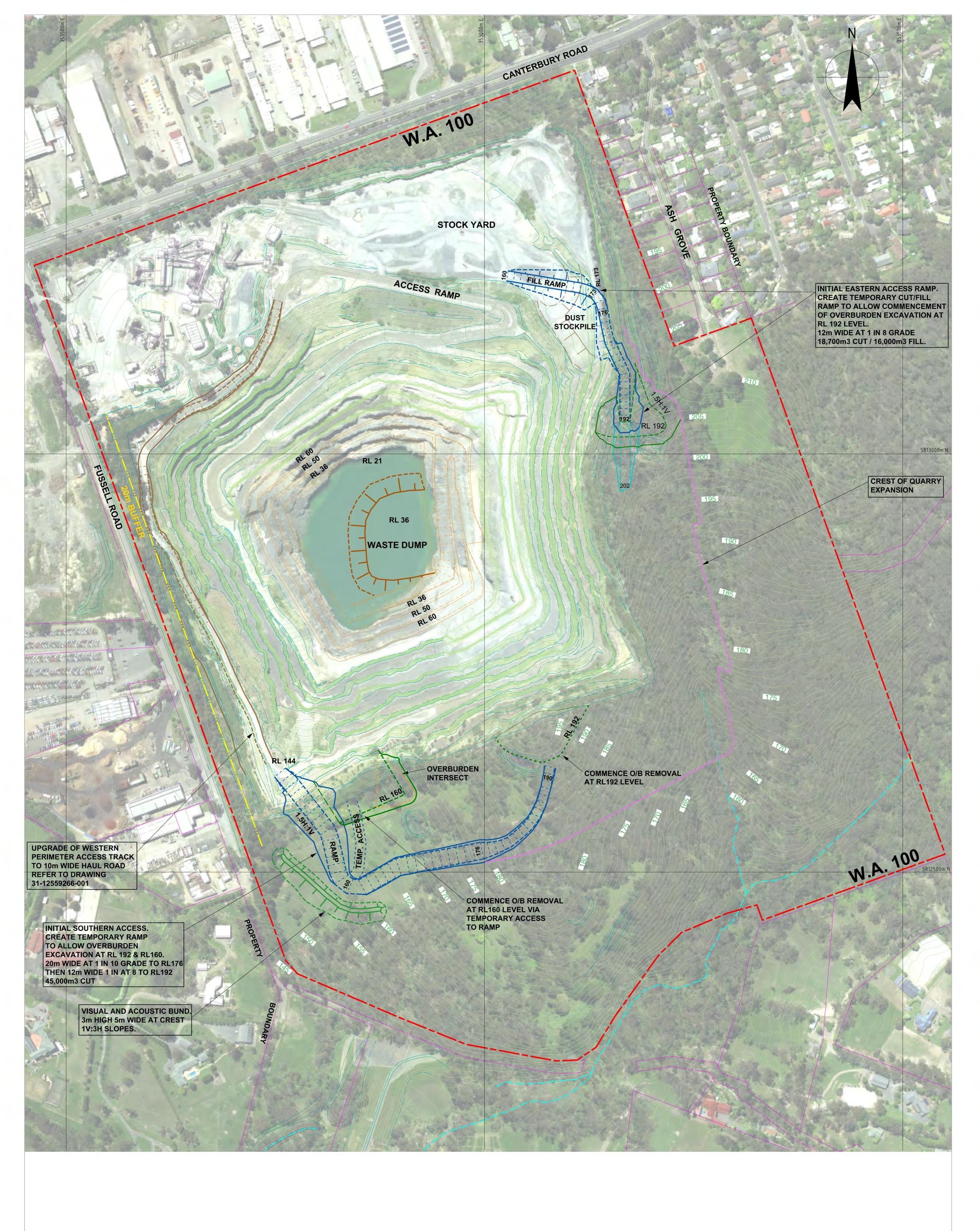
Appendix C

Staging Plans and Overburden Isopach



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Designer	S Verhellen	Design Check	M Armstrong



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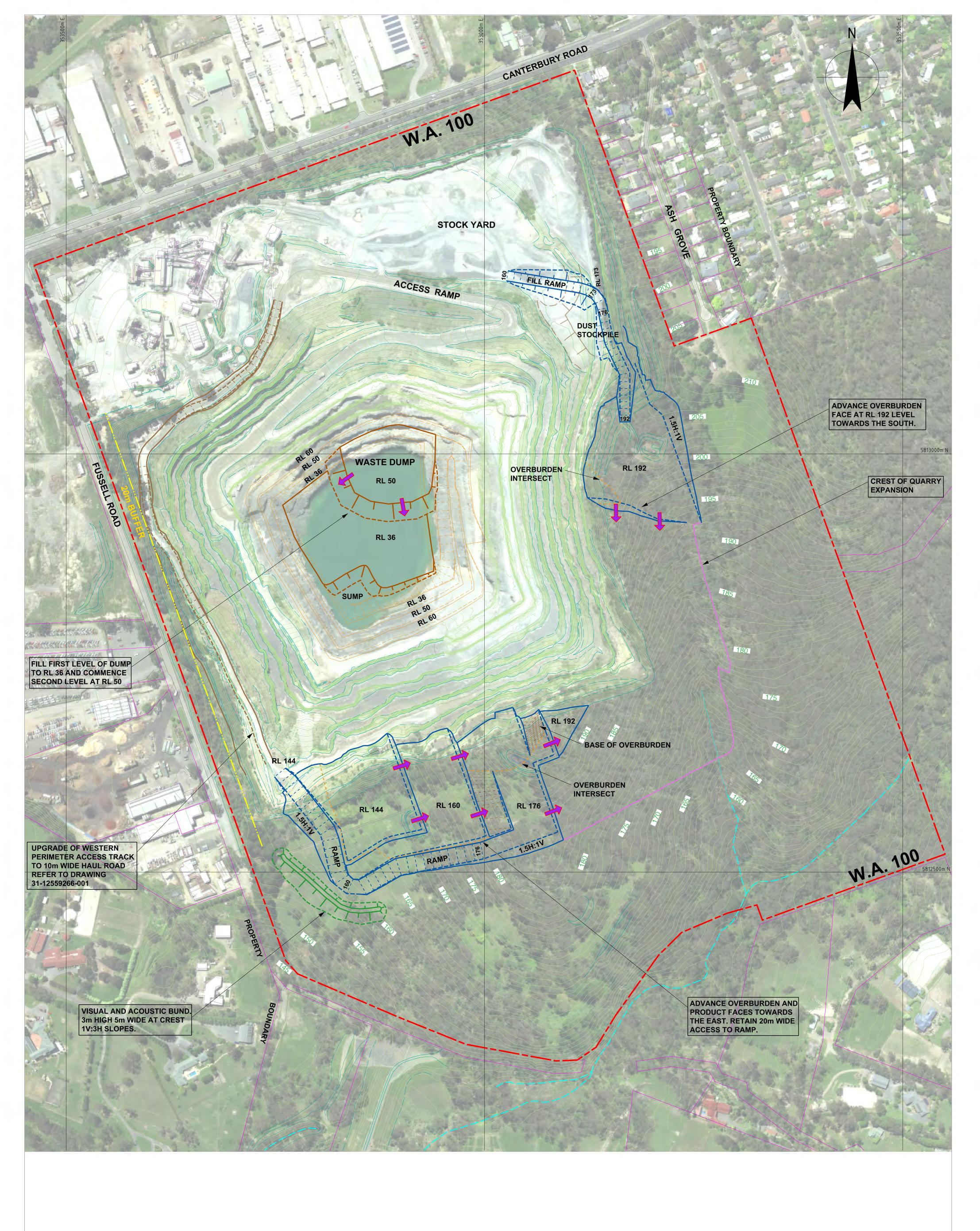
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Drawing Title Extraction and Dumping Sequence Stage 1

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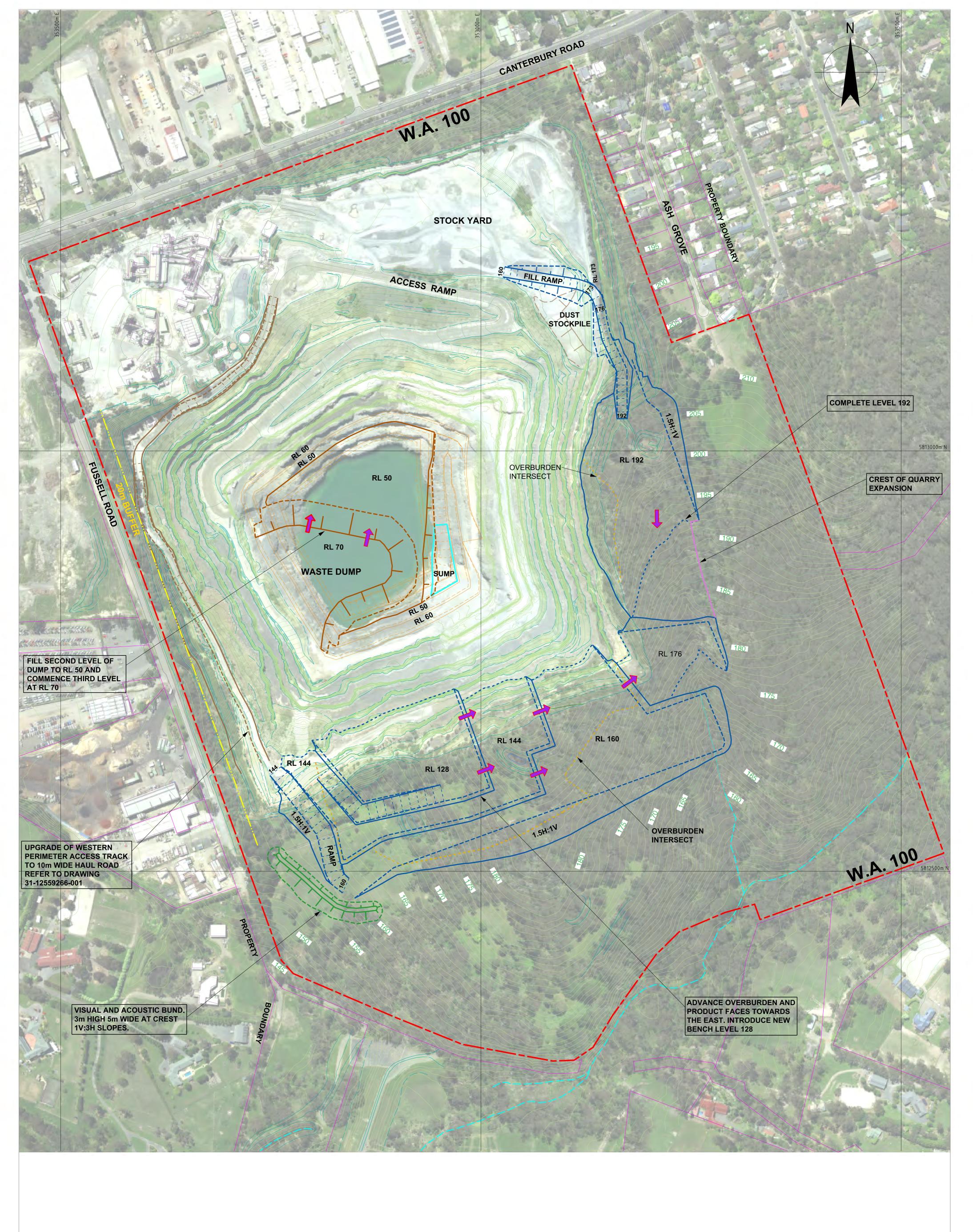


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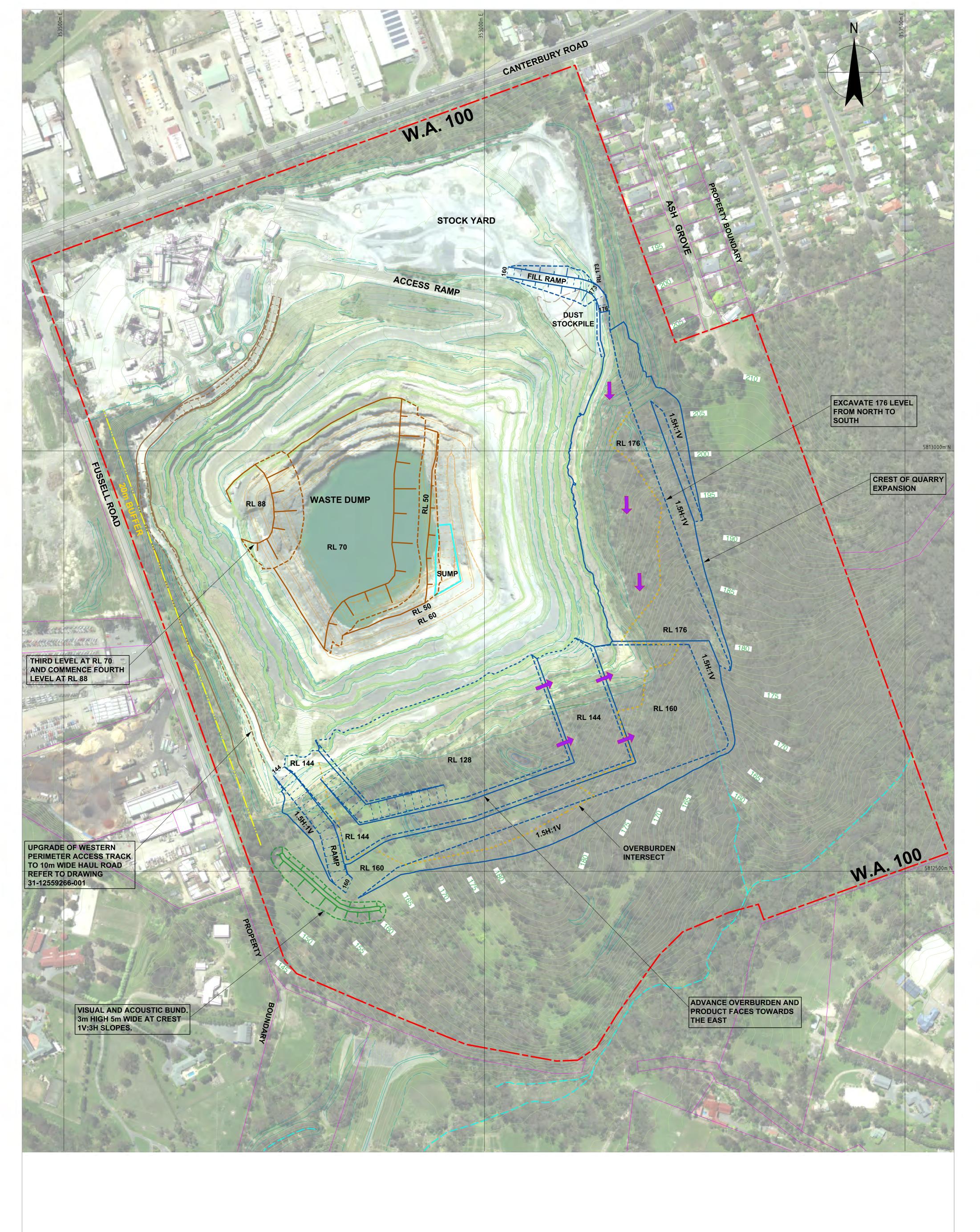
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Drawing Title Extraction and Dumping Sequence Stage 3

Drawing No. 31-12559266-C007



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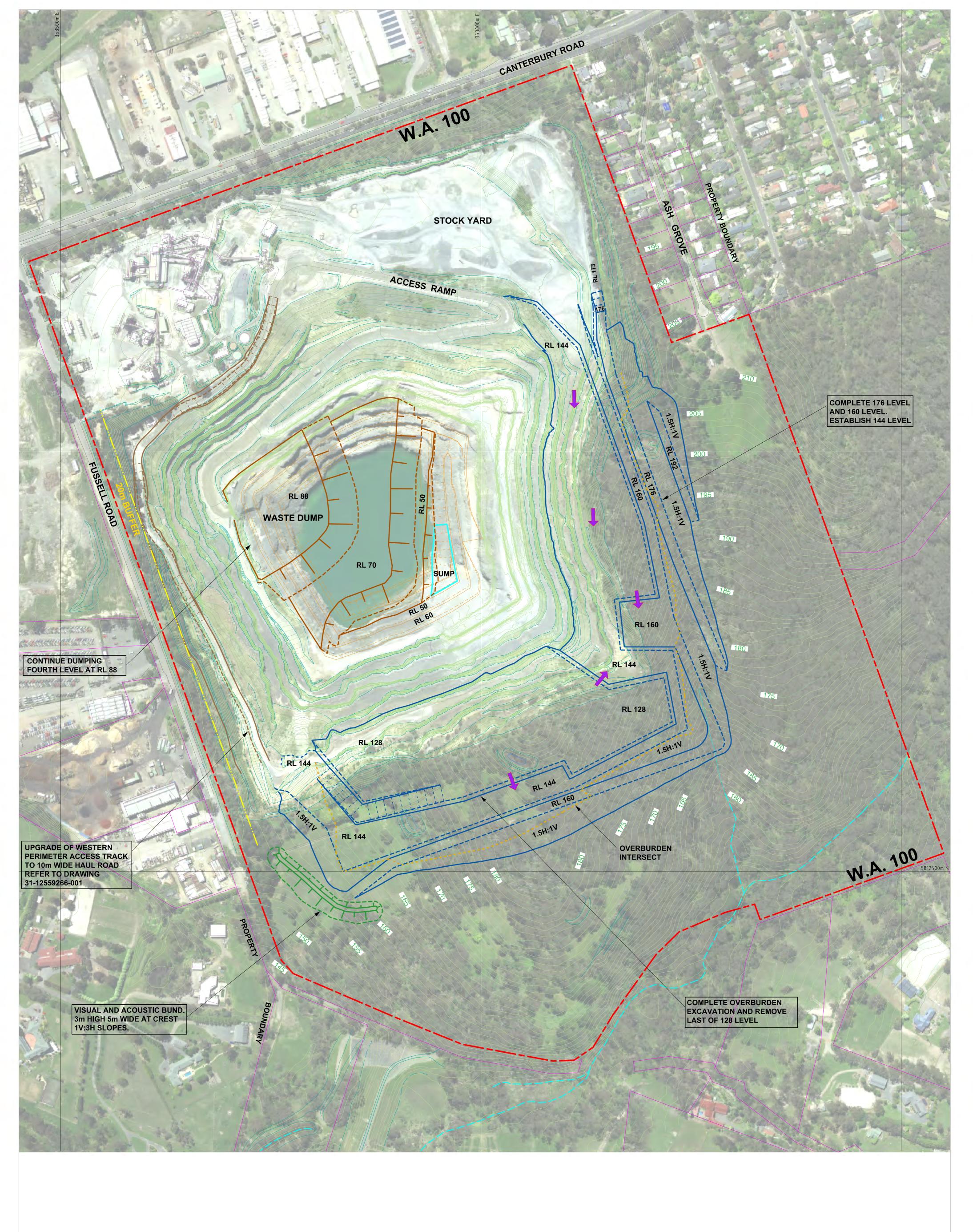
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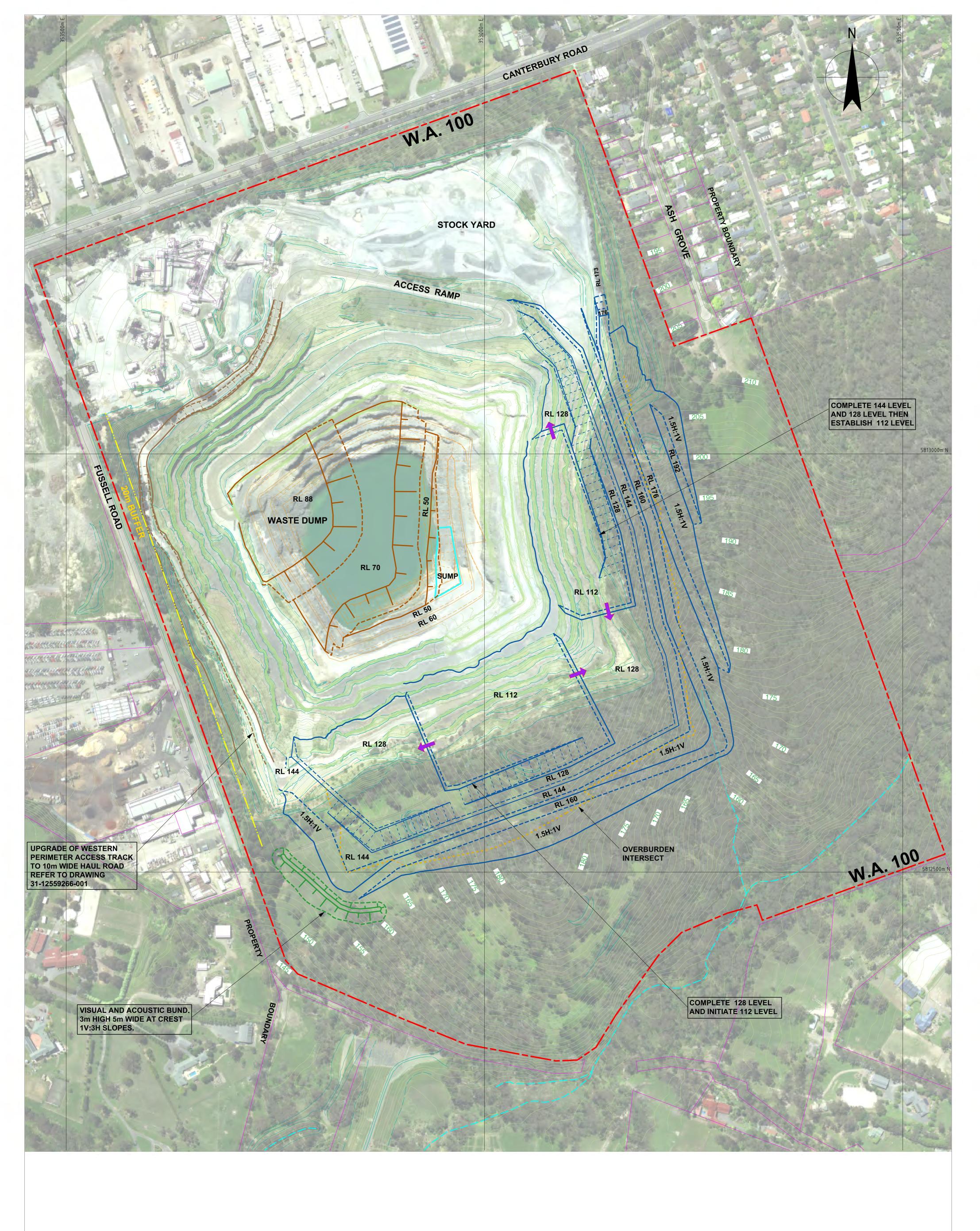


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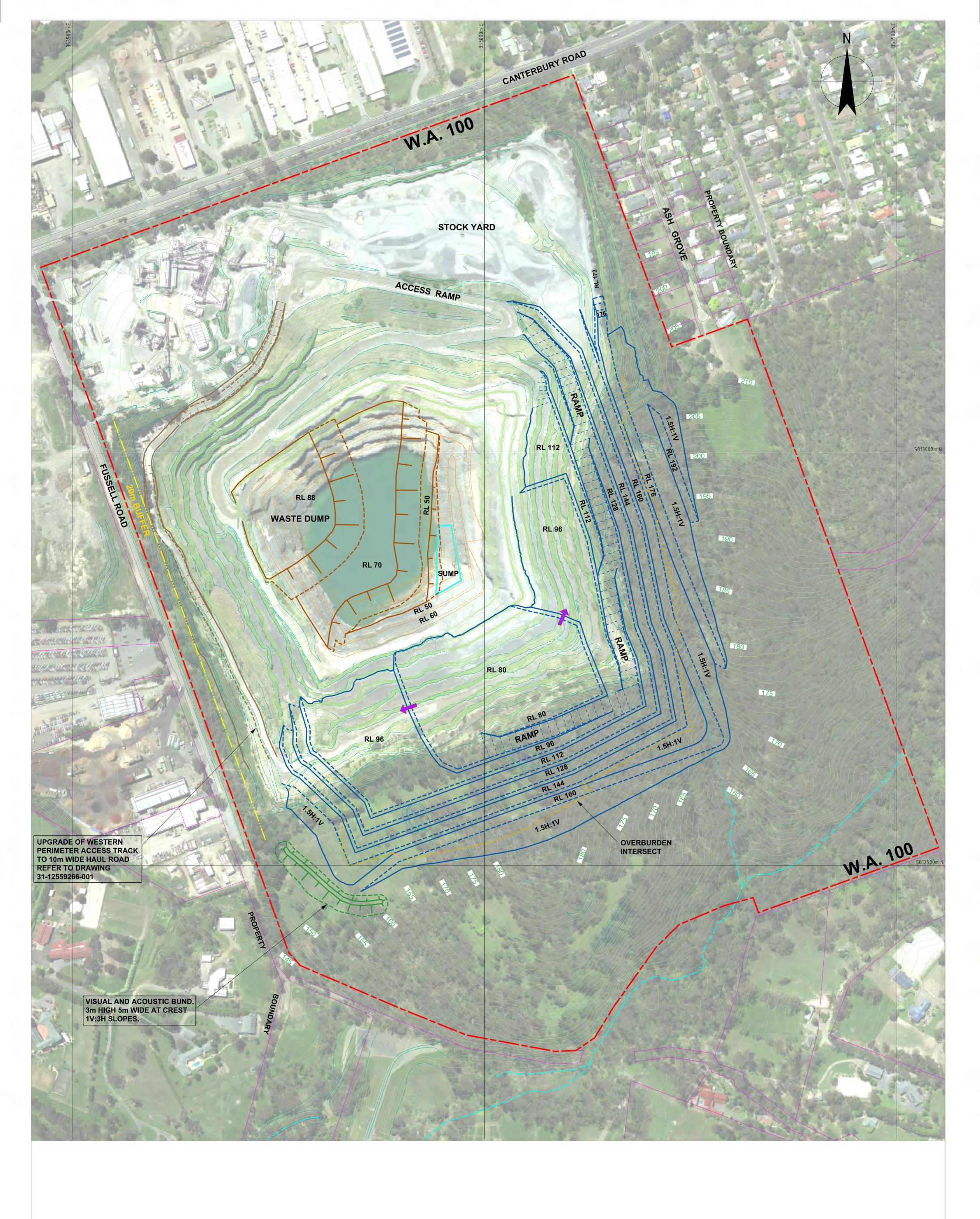
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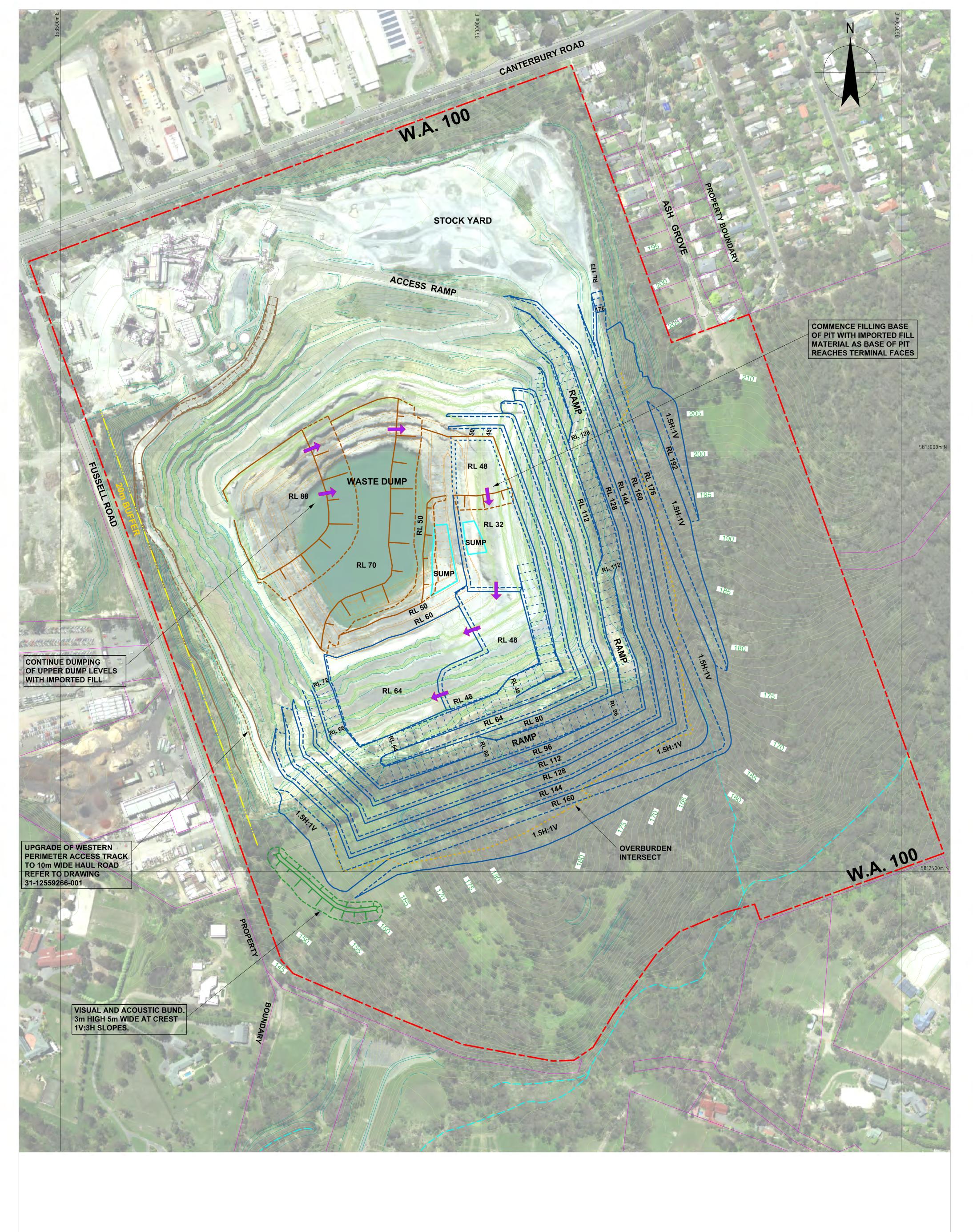
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Status

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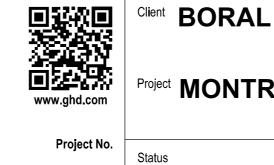
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roject	MONTROSE QUARRY EXTENSION

Status

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Drawing Title Extraction and Dumping Sequence Stage 8

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Code

Overburden Isopach (Contour of O/B Thickness) Current Design of Final Batters

Proposed Expansion Final Batter

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Client BORAL

Project MONTROSE QUARRY EXTENSION

Title Isopach of Overburden Thickness

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Project No.

Status

Drawing No. 31-12559266-C012

Appendix D

Staging Plans and Bench Level Volumes

Extraction Summaries by Stage

Stage 1

Bench	Volume (m³)	Overburden (m³)	Resource (m³)	Resource (t)
SOUTHERN RAMP				
BENCH_176	4,300	4,300	0	0
BENCH_160	14,800	14,800	0	0
BENCH_144	26,200	26,200	0	0
TOTAL	45,300	45,300	0	0
EASTERN RAMP				
BENCH_192	7,000	7,000	0	0
BENCH_176	3,100	3,100	0	0
TOTAL	10,100	10,100	0	0

Stage 2

Bench	Volume (m³)	Overburden (m³)	Resource (m³)	Resource (t)
BENCH_192	12,300	12,300	-	-
BENCH_176	154,700	128,500	26,200	70,740
BENCH_160	250,000	123,700	126,300	341,010
BENCH_144	158,500	39,600	118,900	321,030
BENCH_192 EAST	110,000	107,000	3,000	8,100
STAGE 2 TOTAL	685,500	411,100	274,400	740,880
YEARS		2.3	0.9	

Stage 3

Bench	Volume (m³)	Overburden (m³)	Resource (m³)	Resource (t)
BENCH_192	-	-	-	-
BENCH_176	219,600	202,900	16,700	45,090
BENCH_160	644,200	370,600	273,600	738,720
BENCH_144	395,100	30,000	365,100	985,770
BENCH_128	306,300	-	306,300	827,010
BENCH_192 EAST	43,800	35,300	8,500	22,950
STAGE 3 TOTAL	1,609,000	638,800	970,200	2,619,540
YEARS		3.2	3.2	

Stage 4

Bench	Volume (m³)	Overburden (m³)	Resource (m³)	Resource (t)
BENCH_192	160,800	149,300	11,500	31,050
BENCH_176	427,900	247,200	180,700	487,890
BENCH_160	105,400	91,800	13,600	36,720

Bench	Volume (m³)	Overburden (m³)	Resource (m³)	Resource (t)
BENCH_144	206,700	10,500	196,200	529,740
BENCH_128	198,100	-	198,100	534,870
STAGE 4 TOTAL	938,100	349,500	588,600	1,589,220
YEARS		1.7	2.0	

Stage 5

Bench	Volume (m³)	Overburden (m³)	Resource (m³)	Resource (t)
BENCH_192	-	-	-	-
BENCH_176	-	1,100	-	-
BENCH_160	431,800	40,400	398,900	1,077,030
BENCH_144	703,400	83,000	617,800	1,668,060
BENCH_128	219,100	-	219,100	591,570
STAGE 5 TOTAL	1,354,300	124,500	1,235,500	3,335,850
YEARS		0.7	4.1	

Stage 6

Bench	Volume (m³)	Overburden (m³)	Resource (m³)	Resource (t)
BENCH_192	-	-	-	-
BENCH_176	-	-	-	-
BENCH_160	-	-	-	-
BENCH_144	51,300	-	51,300	138,510
BENCH_128	606,700	-	606,700	1,638,090
BENCH_112	678,700	-	678,700	1,832,490
STAGE 6 TOTAL	1,336,700	-	1,337,000	3,609,900
YEARS			4.5	

Stage 7

Bench	Volume (m³)	Overburden (m³)	Resource (m³)	Resource (t)
BENCH_192	-	-	-	-
BENCH_176	-	-	-	-
BENCH_160	-	-	-	-
BENCH_144	-	-	-	-
BENCH_128	-	-	-	-
BENCH_112	565,900	-	565,900	1,527,930
BENCH_96	1,063,300	-	1,063,300	2,870,910
BENCH_80	503,700	-	503,700	1,359,990
STAGE 7 TOTAL	2,132,900	-	2,132,900	5,758,830
YEARS			7.1	

Stage 8

Bench	Volume (m³)	Overburden (m³)	Resource (m³)	Resource (t)
BENCH_192	-	-	-	-
BENCH_176	-	-	-	-
BENCH_160	-	-	-	-
BENCH_144	-	-	-	-
BENCH_128	-	-	-	-
BENCH_112	-	-	-	-
BENCH_96	79,000	-	79,000	213,300
BENCH_80	505,100	-	505,100	1,363,770
BENCH_64	912,100	-	912,100	2,462,670
BENCH_48	523,100	-	523,100	1,412,370
BENCH_32	227,600	-	227,578	614,520
STAGE 8 TOTAL	2,246,900	-	2,246,900	6,066,630
YEARS			7.5	

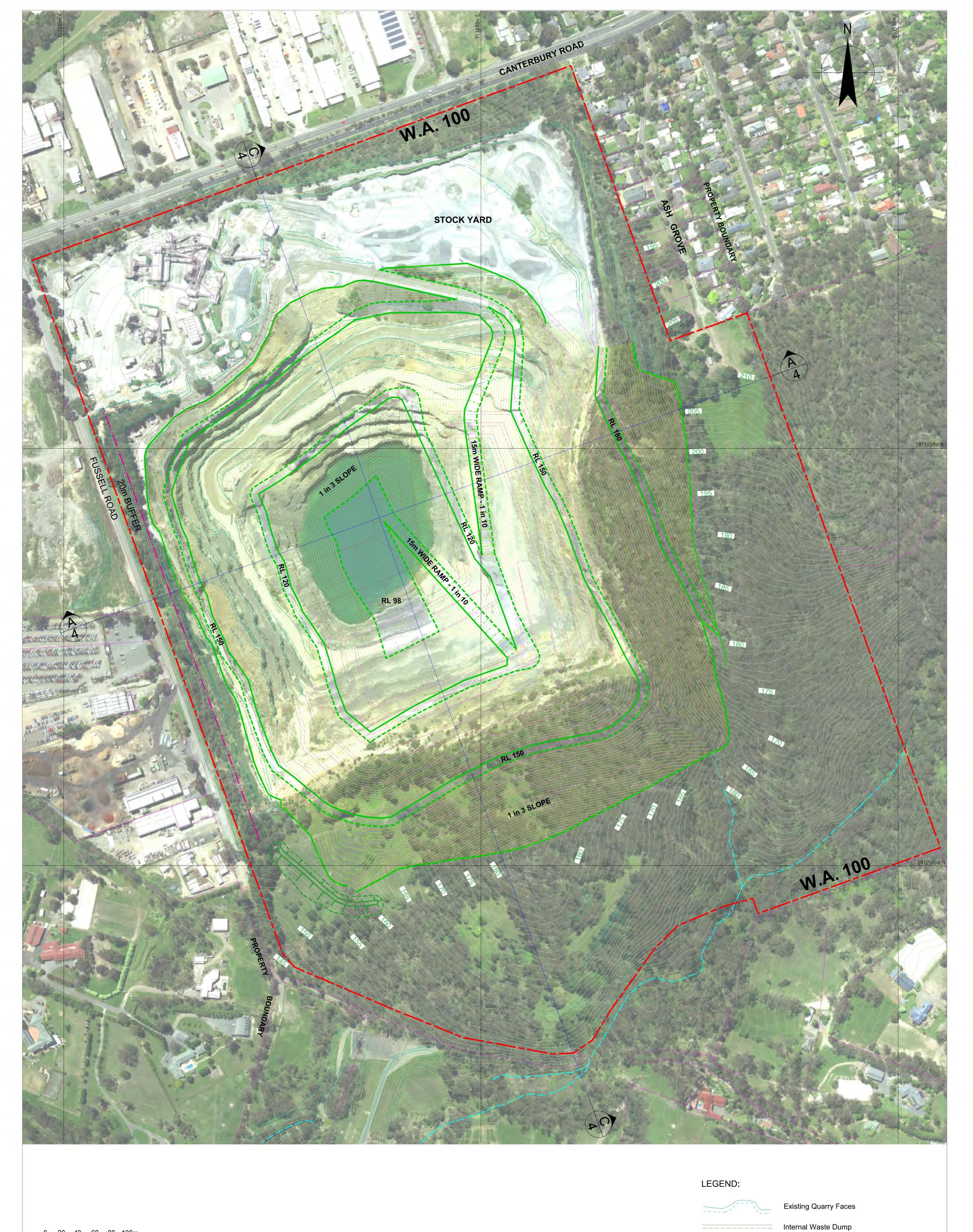
Extraction Summary by Bench Level

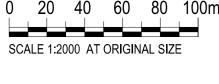
Bench	Volume (m³)	Overburden (m³)	Resource (m³)	Resource (t)
BENCH_192	173,100	161,600	11,500	31,050
BENCH_176	806,500	584,000	222,500	600,750
BENCH_160	1,450,200	641,300	808,900	218,4030
BENCH_144	1,529,300	189,300	1,340,000	3,618,000
BENCH_128	1,395,800	0	1,395,800	3,768,660
BENCH_112	1,244,300	0	1,244,300	3,359,610
BENCH_96	1,142,300	0	1,142,300	3,084,210
BENCH_80	1,008,800	0	1,008,800	2,723,760
BENCH_64	912,100	0	912,100	246,2670
BENCH_48	809,300	0	809,300	2,185,110
BENCH_32	603,700	0	603,700	1,629,990
BENCH_20	158,800	0	158,800	428,760
TOTAL	11,234,200	1,576,200	9,658,000	26,076,600

The bottom two levels (Bench 20 & Bench 32) are limited by the proposed internal waste dump.

Appendix E

Rehabilitation Concept and Backfilling & Rehabilitation Sequencing





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Client BORAL

Project MONTROSE QUARRY EXTENSION

Title Rehabilitation Concept
Void Filling Landform

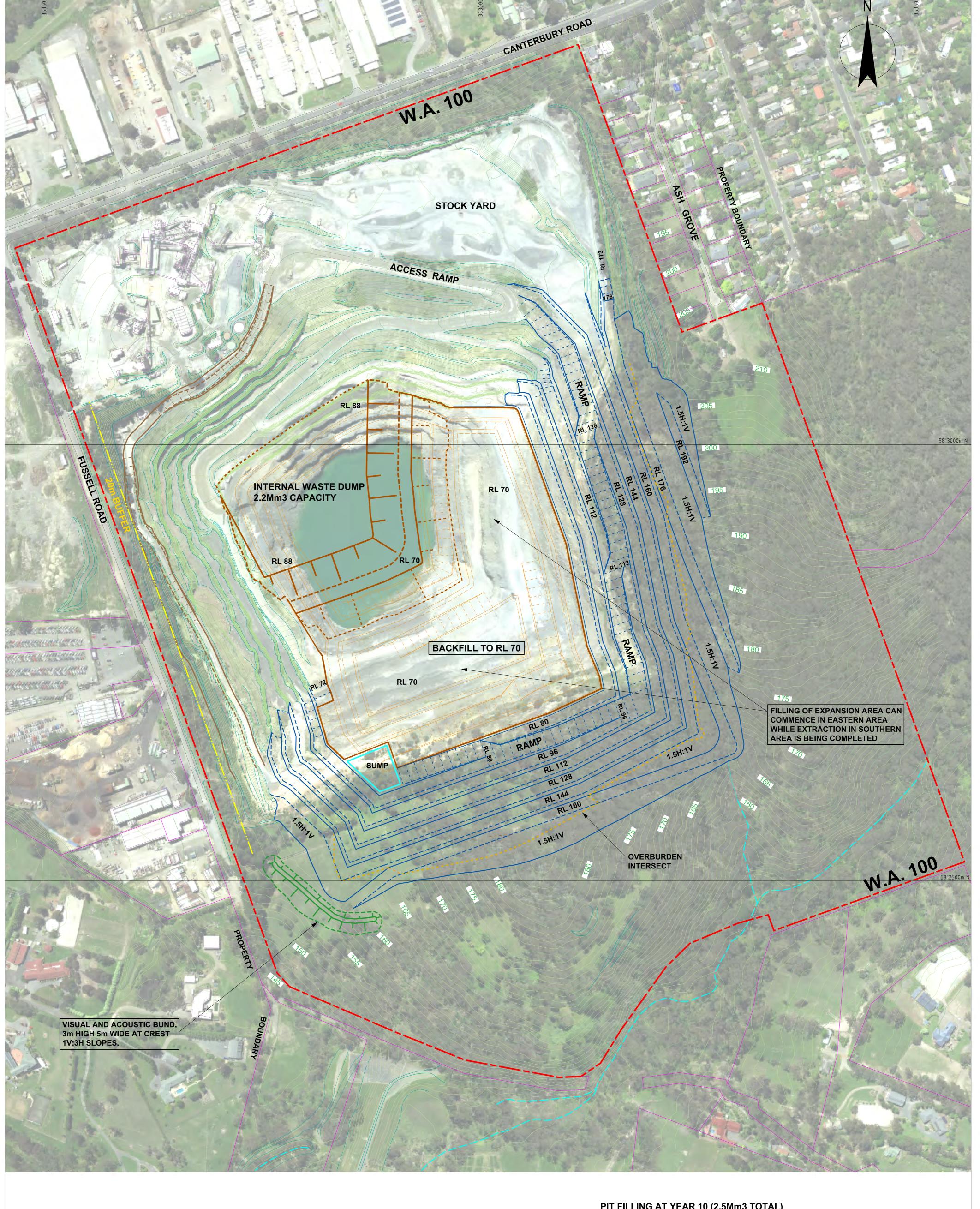
RL 96

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Author	S. Verhellen	Drafting Check	J Bohan		
Designer	S. Verhellen	Design Check	M Armstrong		

Status

Proposed Expansion Final Batter



PIT FILLING AT YEAR 10 (2.5Mm3 TOTAL)

Status

Code

INTERNAL DUMP COMPLETED - 2.2Mm3 CAPACITY FILLED WITH 1.9Mm3 (1.576bcm) OF OVERBURDEN & 0.3Mm3 OF IMPORTED FILL. **EXPANSION AREA FILLED TO RL 70 WITH 2.3Mm3 OF IMPORTED FILL**

NOTE: 250,000 BCM per annum IMPORTED FILL ASSUMED AS BULKED AMOUNT

Plot Date: -

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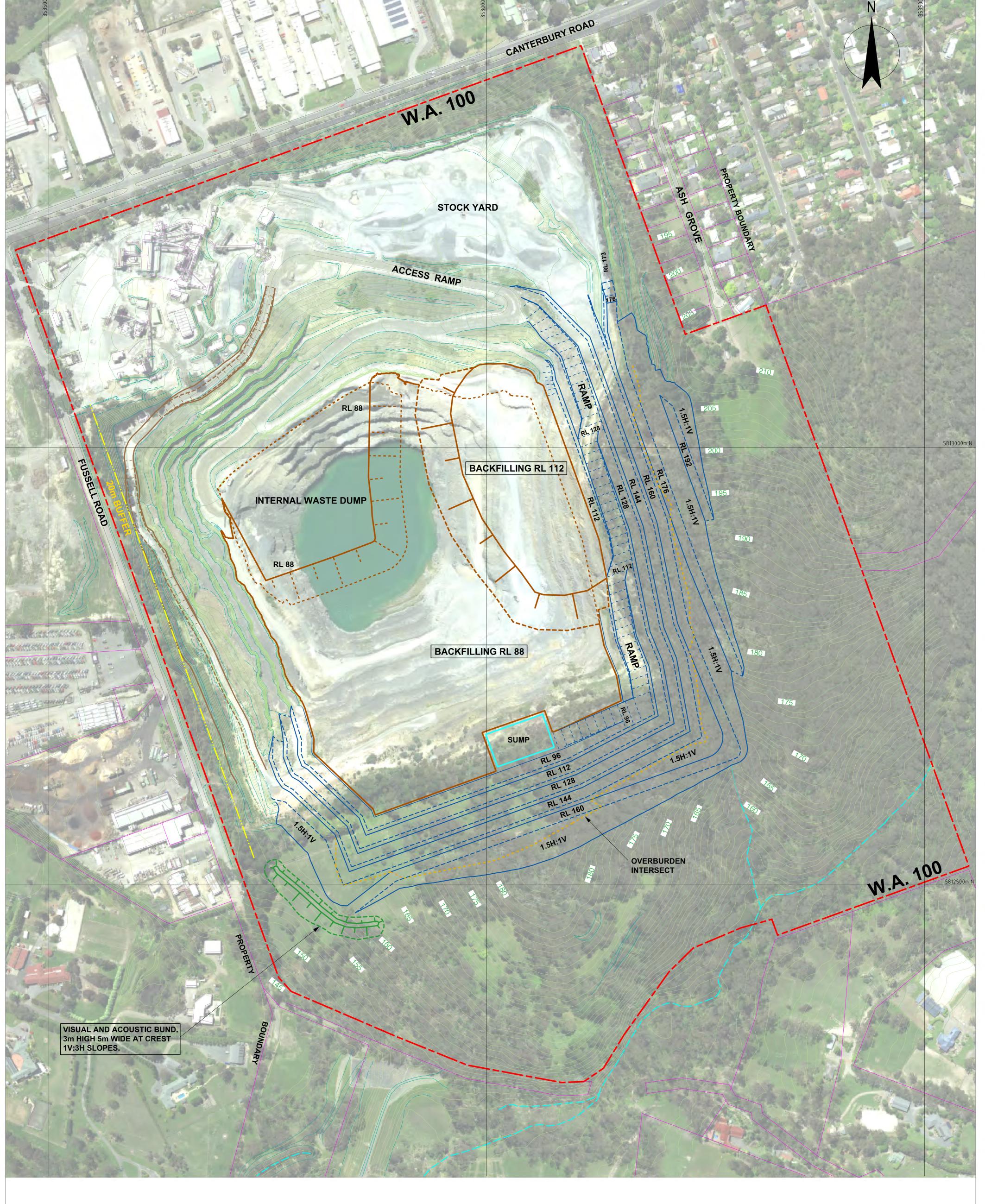
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Status

roject	MONTROSE QUARRY EXTENSION	

Drawing Title Backfilling & Rehabilitation Sequence Year 10



PIT FILLING AT YEAR 20 (5.0Mm3 TOTAL)

Status

Code

INTERNAL DUMP COMPLETED - 2.2Mm3 CAPACITY FILLED WITH 1.9Mm3 (1.576bcm) OVERBURDEN & 0.3Mm3 REMAINDER WITH IMPORTED FILL. EXPANSION AREA FILLED TO RL 88 WITH 4.3Mm3 IMPORTED FILL. COMMENCE FILLING AT RL 112 (APPROX. 0.5Mm3 SHOWN)

NOTE: 250,000 BCM per annum IMPORTED FILL ASSUMED AS BULKED AMOUNT

0 Issued to Client

Rev Description

Author S. Verhellen

Designer S. Verhellen

Designer S. Verhellen

M Armstrong M Laird 4/11/2022

Checked Approved Date

Designer S. Verhellen

Design Check

M Armstrong



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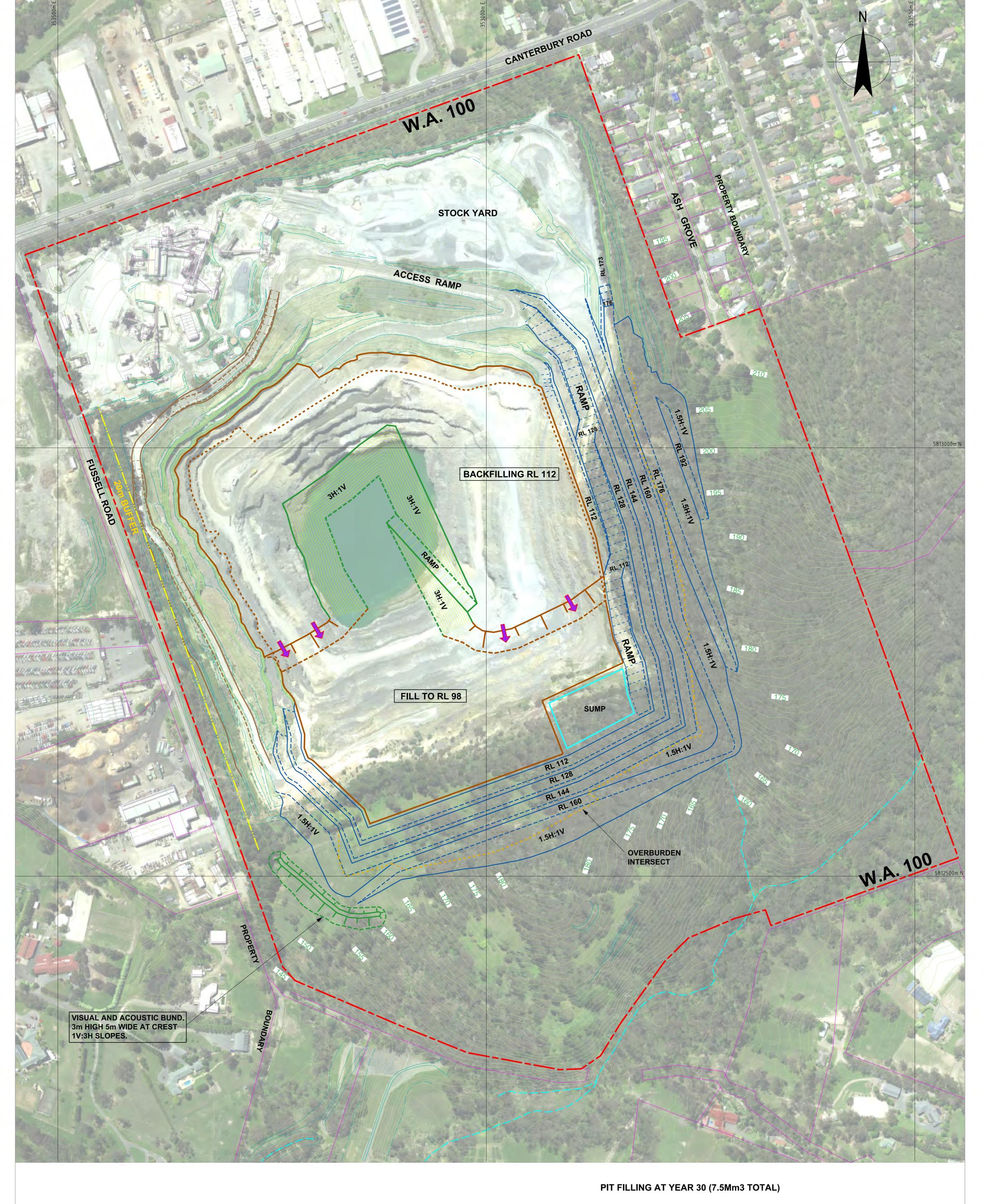
Project MONTROSE QUARRY EXTENSION

Drawing Title Backfilling & Rehabilitation Sequence Year 20

 Rehabilitation
 Size A1

 Drawing No.
 Rev 0

 31-12559266-C016
 0



PIT VOID FILLED TO RL 98 WITH 5.9Mm3 IMPORTED FILL. CONTINUE FILLING AT RL 112 (APPROX. 1.4Mm3 SHOWN) INCLUDING CREATION OF 1 IN 3 SLOPE ABOVE RL 98

NOTE: 250,000 BCM per annum IMPORTED FILL ASSUMED AS BULKED AMOUNT

Status

Code

0 20 40 60 80 100m

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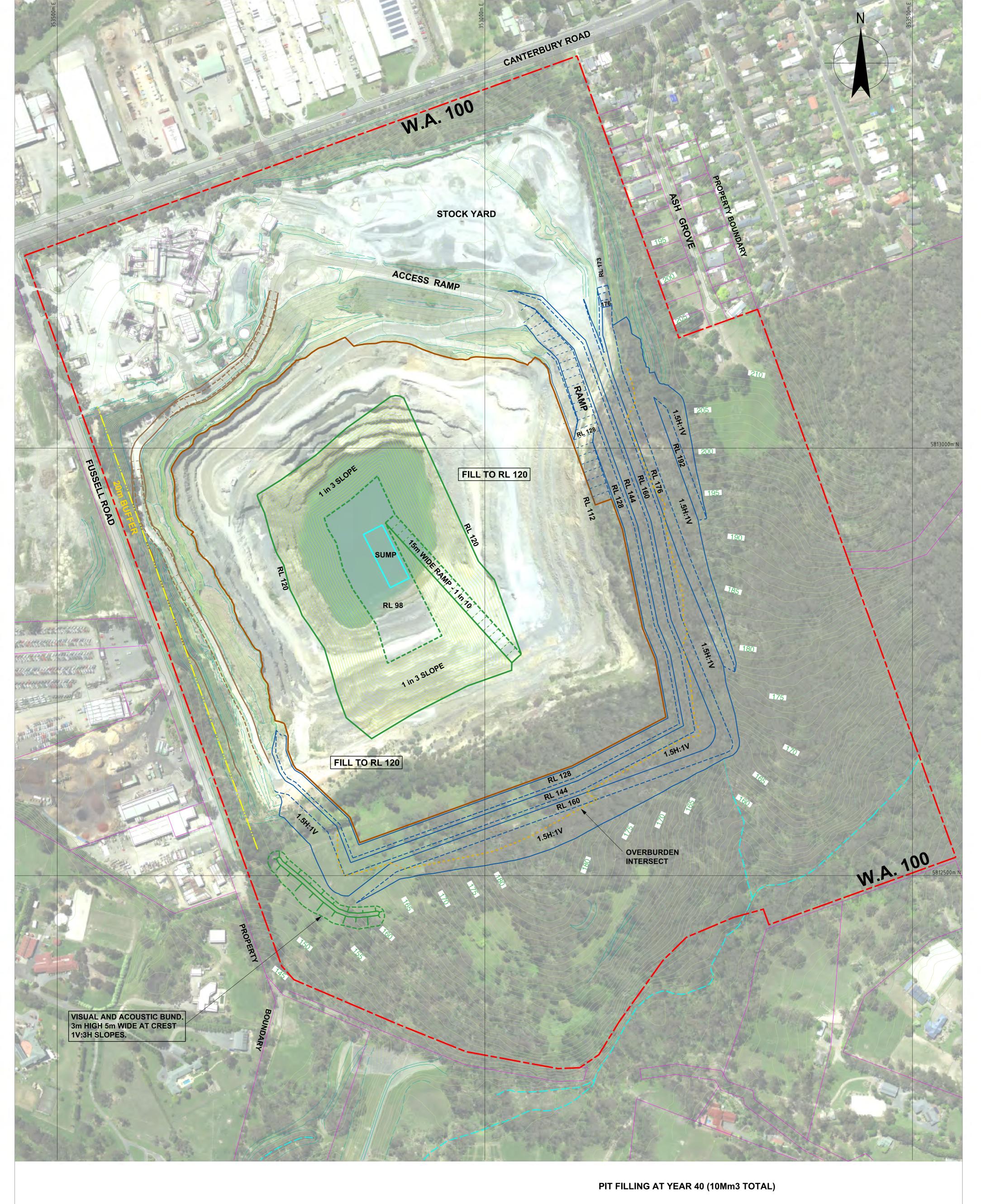


Status

Project MONTROSE QUARRY EXTENSION

Drawing Title Backfilling & Rehabilitation Sequence Year 30

Drawing No. Rev 0



PIT VOID FILLED TO RL 120 WITH 9.6Mm3 IMPORTED FILL. CREATE 1 IN 3 SLOPE ABOVE RL 98

NOTE: 250,000 BCMper annum IMPORTED FILL ASSUMED AS BULKED AMOUNT

Status

Code

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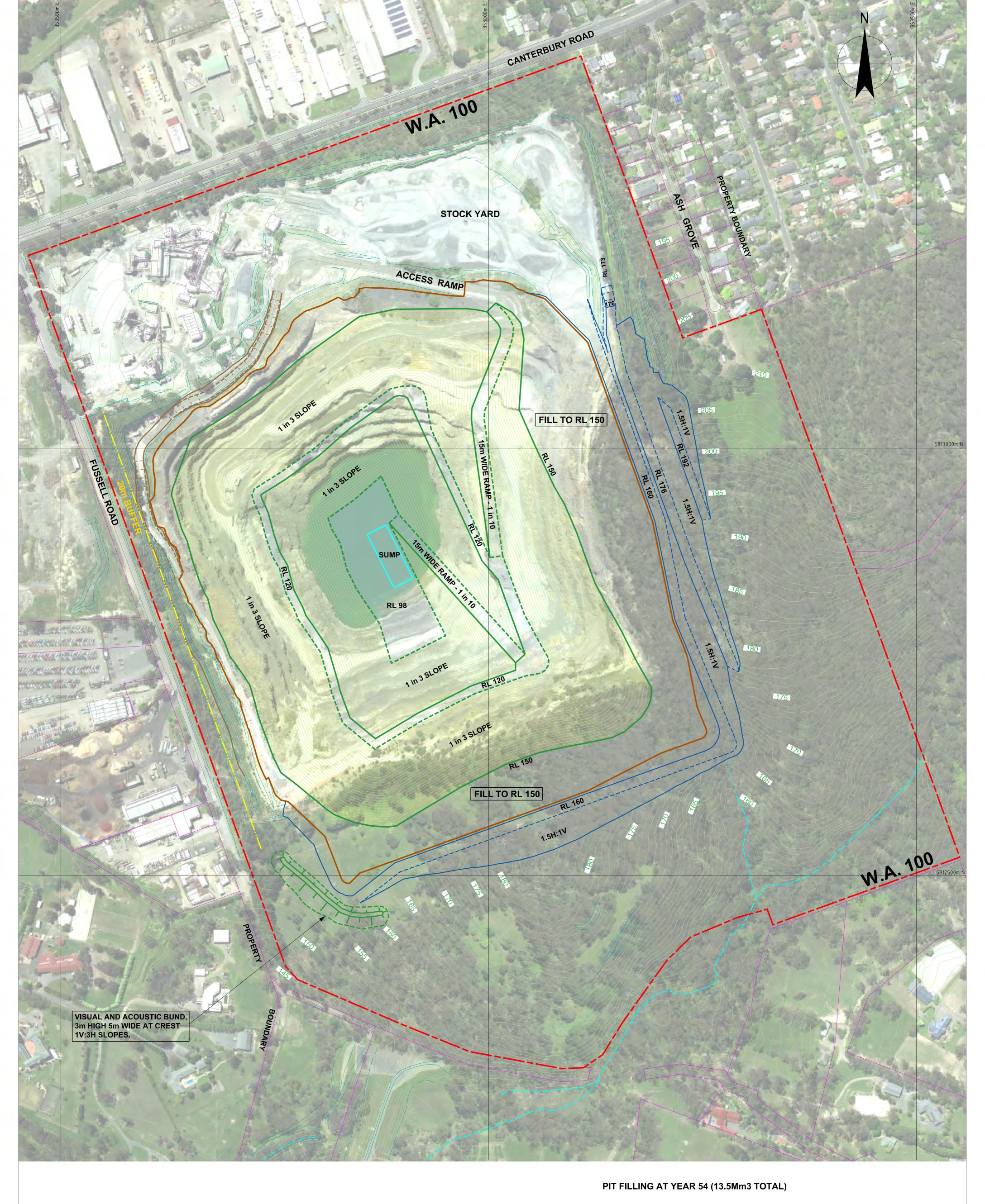
Status

Client BORAL

Project MONTROSE QUARRY EXTENSION

Drawing Title Backfilling & Rehabilitation
Sequence
Year 40

Drawing No. 31-12559266-C018



PIT VOID FILLED TO RL 150 WITH 13.2Mm3 IMPORTED FILL. CREATE 1 IN 3 SLOPE FROM RL 98 UP TO RL 150

NOTE: 250,000 BCM per annum IMPORTED FILL ASSUMED AS BULKED AMOUNT

0 20 40 60 80 100n

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Project MONTROSE QUARRY EXTENSION

Status

Code

Drawing Title Backfilling & Rehabilitation Sequence
Year 54

Rehabilitation A1

Drawing No.
31-12559266-C019

Rev
0

Appendix F

3D Rendered Images of Rehabilitation Concept

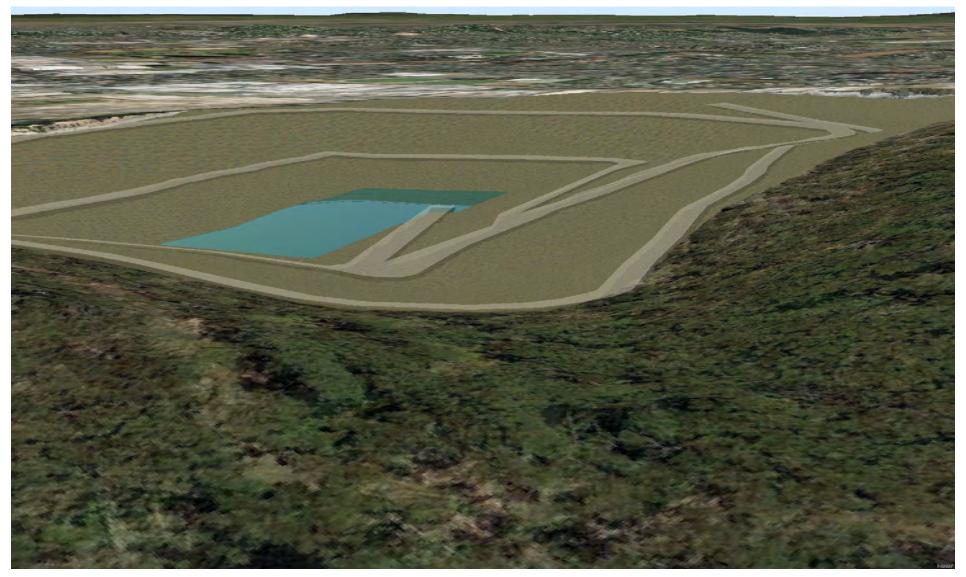


Figure A Near view, looking northwest from Bungalook Creek



Figure B External View, looking southeast to the Dandenong Ranges



Figure C External view, looking southwest from Mount Evelyn

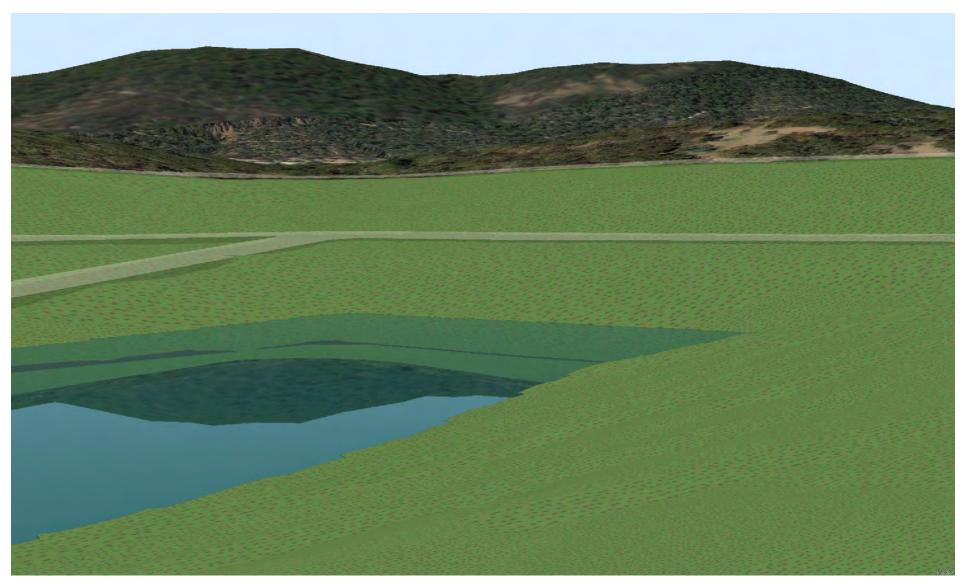


Figure D Internal view with grass cover, looking southeast towards Dandenong Ranges

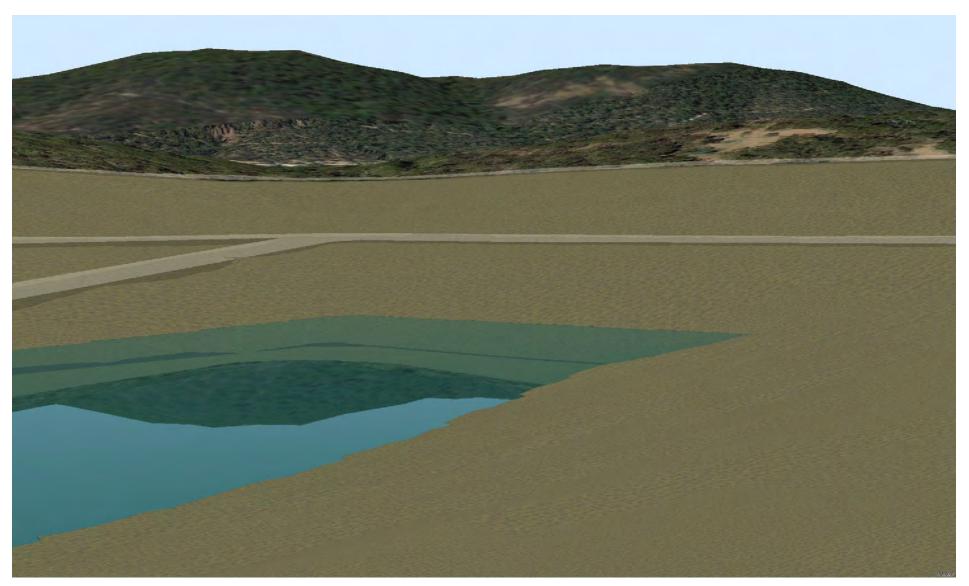


Figure E Internal view with no grass cover, looking southeast towards the Dandenong Ranges



Figure F External view, looking eastward towards Mount Evelyn

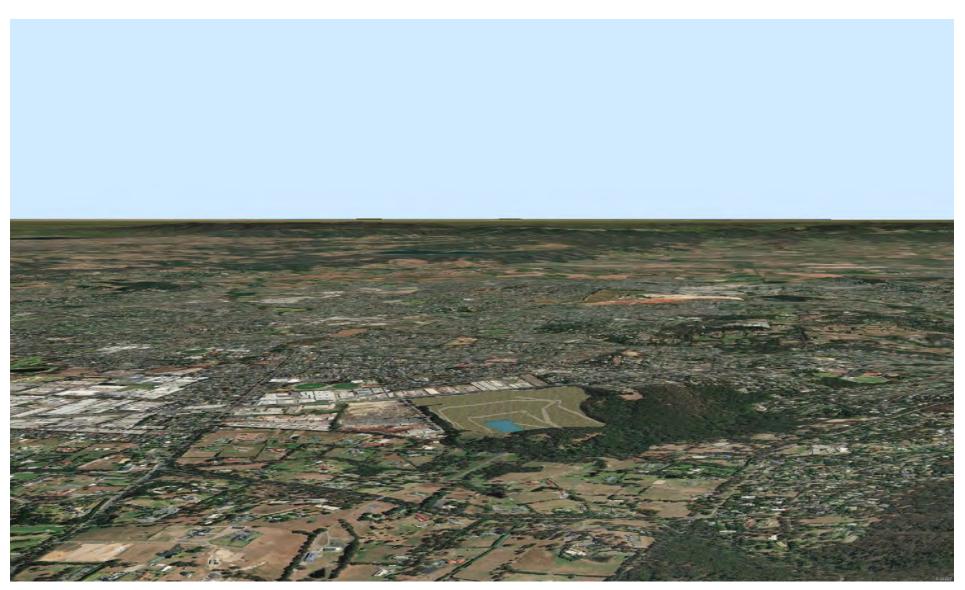


Figure G External view, looking northwest from the Dandenong Ranges

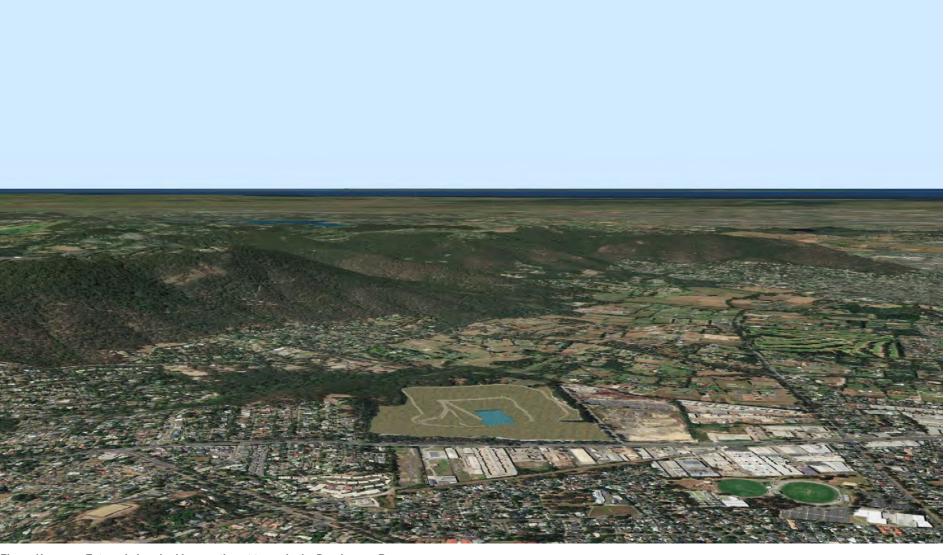


Figure H External view, looking southeast towards the Dandenong Ranges

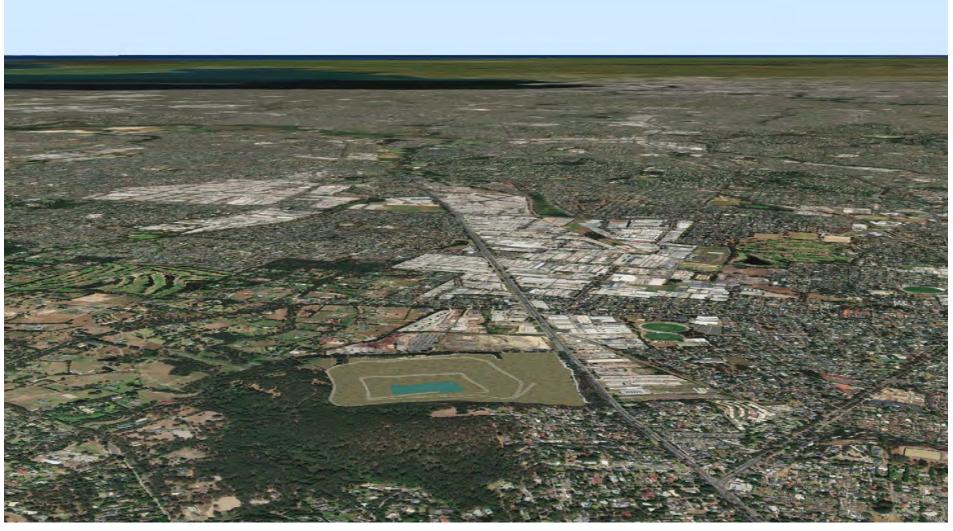


Figure I External view, looking west towards Melbourne City

