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Stage 1 Apsley, Mandogalup

Bushfire Management Plan Compliance Report

Prepared for
QUBE Property
by Strategen

May 2019



Stage 1 Apsley, Mandogalup

Bushfire Management Plan Compliance Report

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May 2019

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Document control

Client: QUBE Property

Report Version	Revision No.	Purpose	Strategen author	Strategen reviewer	Submitted to Client	
					Form	Date
Draft Report	Rev A	For review by client	Brodie Mastrangelo (BPAD 45985, Level 1)	Zac Cockerill (BPAD 37803, Level 2)	Electronic (email)	29/05/2019
Final Report	Rev 0	Issued for use: for subdivision clearance	Zac Cockerill (BPAD 37803, Level 2)	Zac Cockerill (BPAD 37803, Level 2)	Electronic (email)	30/05/2019

Filename: QPG19141_01 R001 Rev 0 - 30 May 2019

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1. Introduction

1.1 Site/development summary

Table 1 provides a summary of the site and proposed development. The development layout and subject lots are shown in Figure 1 and Figure 2.

Table 1: Site/development summary

Site details	
Address details	68 lots within Stage 1 Apsley, Mandogalup WA 6167
Local government area	City of Kwinana
Description of building works	Construction of 67 residential dwellings (Class 1a buildings and associated Class 10a structures) and one sales office (Class 5 building)

1.2 Purpose of report

This Bushfire Management Plan (BMP) compliance report has been prepared for 68 lots within Stage 1 Apsley, Mandogalup (hereon referred to as the project area). Lots within Stage 1 are subject to WAPC subdivision approval (WAPC Ref. 155567), issued on 14 August 2017.

This report provides a post-subdivisional works audit and compliance check of all relevant management measures documented in the approved Bushfire Management Plan (BMP) prepared by Strategen (2017), including validation of the BAL contour map contained in the BMP. This information is required to clear Condition 30 of subdivision approval as follows:

30. Information is to be provided to demonstrate that the developer responsibilities contained in the approved Bushfire Management Plan have been implemented during subdivision works.

This report has been prepared for the benefit of the developer, future lot purchasers and decision makers. BAL certificates for each individual lot (contained in Appendix 1) have been prepared based on the final site compliance check and are appended to this report for use by prospective lot purchasers at the building permit stage.

The BAL assessment outlined in this report is the most up to date assessment undertaken by Strategen for the project area and has been prepared to validate the BAL contour map contained in the approved BMP (Strategen 2017). The approach for preparation of this BMP compliance report is consistent with Section 4.2 and Appendix 3 of *Guidelines for Planning in Bushfire Prone Areas* (the Guidelines; WAPC 2017).

2. Implementation of relevant bushfire management measures

The endorsed BMP includes several bushfire management measures that are inherent to the ability for proposed lots to achieve the intended BAL ratings and the proposed development to comply with the bushfire protection criteria of the Guidelines. Strategen has undertaken a compliance audit against all relevant bushfire management measures documented in the approved Strategen (2017) BMP (as per Table 2) and provided information on the status of implementation of each measure and evidence of compliance.

Based on this assessment, Strategen can confirm that the relevant bushfire management measures detailed in the endorsed BMP have been implemented as intended throughout the duration of subdivisional works.

Table 2: Bushfire compliance table

BMP reference	Action	Implementation status	Evidence of compliance	Compliant/non-compliant
BMP 1a (refer to Section 3.1.1)	Establish and maintain bushfire fuels within all residential lots and the school site lot to achieve exclusion Clause 2.2.3.2 (f) of AS 3959	Earthworks have ensured that all bushfire fuels have been cleared within the project area (note the future school site is not applicable to Stage 1). Developer is responsible for ongoing management until sale/transfer of land.	Refer to Figure 1, Photo 23 contained in Appendix 2 and approved clearing plan contained in Appendix 3	Compliant
BMP 1b (refer to Section 3.1.1)	Establish and maintain portions of POS to be cleared/excluded as depicted on Figure 4 in a low threat state to achieve exclusion Clause 2.2.3.2 (f) of AS 3959	Relevant portions of POS have been earthworked to meet the desired exclusion clauses and Strategen has reviewed and endorsed the associated Landscape Plan prepared by Plan E.	Refer to Figure 1, Photos 14 and 15 contained in Appendix 2 and approved Landscape Plan contained in Appendix 4	Compliant
BMP 1c (refer to Section 3.1.1)	Maintain new road verges in a low threat state to achieve exclusion Clause 2.2.3.2 (f) of AS 3959	Road verges have been cleared and earthworked to achieve the desired exclusion clauses as per the Roadworks Layout Plan. These will be maintained initially by the developer until transfer to the City.	Refer to Figure 1, Photo 4 contained in Appendix 2 and Roadworks Layout Plan contained in Appendix 5	Compliant
BMP 1d (refer to Section 3.1.3)	Establish and maintain Western Power easement in a low threat state to achieve exclusion Clause 2.2.3.2 (f) of AS 3959	Not applicable for Stage 1 development.	N/A	N/A
BMP 1e (refer to Section 3.1.3)	Establish and maintain Planning Control Area in a low threat state to achieve exclusion Clause 2.2.3.2 (f) of AS 3959	The Planning Control Area adjacent to Rowley Road has been cleared and earthworked to achieve the desired exclusion clauses. This will be maintained by the developer until transfer/sale of land.	Refer to Figure 1 and Photos 17 and 21 contained in Appendix 2	Compliant
BMP 1f (refer to Section 3.1.3)	Establish and maintain on-site low fuel buffers for development stages to achieve exclusion Clause 2.2.3.2 (f) of AS 3959	The relevant on-site staging buffers to the north, west and south of the project area have been cleared and earthworked to meet the desired exclusion clauses. These will be maintained by the developer until staging progresses into these areas.	Refer to Figure 1 and Photo 23 contained in Appendix 2	Compliant

BMP reference	Action	Implementation status	Evidence of compliance	Compliant/ non-compliant
BMP 1g (refer to Section 3.1.3)	Implement staged building exclusion for lots adjoining the western, eastern and south-western boundaries of the project area impacted by BAL-40 or BAL-FZ, as depicted on Figure 4, based on progress of clearing within Lot 2 to the west, Lot 9033 to the east and balance Lot 682 to the southwest	Development of lots at the direct bushland interfaces have been delayed through staging and do not form part of this clearance process. All lots within the project area can achieve compliant ratings of BAL-29 or lower.	Refer to Figure 2	Compliant
BMP 2a (refer to Section 3.3)	Undertake updated BAL assessment via BAL compliance checks	Updated BAL contour assessment is contained in Figure 2.	Refer to Figure 2	Compliant
BMP 2b (refer to Section 3.2)	Construct buildings in accordance with AS 3959, either in accordance with this BMP or future reassessment of the BAL to support the building permit stage	N/A This applies to the building construction stage and is not applicable to clearance of title.	N/A	N/A
BMP 3a (refer to Section 3.3)	Provide and maintain temporary emergency access way as right of way or public access easements in gross with sign posting and any gates unlocked	The compliant temporary EAW has been approved by the Cities of Kwinana and Cockburn, as well as Main Roads WA. The EAW is currently under construction in accordance with approved plans.	Refer to surveyed EAW plan in Appendix 6 and Plates 1 and 2	Compliant
BMP 3b (refer to Section 3.3)	Construct public roads, cul-de-sacs, battle-axes and emergency access way in accordance with subdivision approval and relevant technical requirements of the Guidelines	All public roads, temporary cul-de-sacs and the EAW will be constructed in accordance with the approved Roadworks Layout Plan and surveyed EAW plan, which meet the technical requirements of the Guidelines.	Refer to Appendix 5 and Appendix 6	Compliant
BMP 3c (refer to Section 3.3)	Construct firebreaks around boundaries of relevant lots in accordance with requirements of the City of Kwinana annual firebreak order	All relevant lot boundaries which still contain a vegetation extent have firebreaks maintained in accordance with the City of Kwinana annual firebreak notice.	Refer to Figure 1 and Photos 20 and 21 contained in Appendix 2	Compliant
BMP 4a (refer to Section 3.4)	Construct reticulated water supply and network of hydrants in accordance with DA approval and water authority, DFES and City technical requirements	Reticulated water supply and network of hydrants will be constructed in accordance with the approved Water Reticulation Plan.	Refer to Appendix 7	Compliant
BMP 5a (refer to Section 3.5)	Reassess BALs for individual lots	N/A This applies to the building stage and is not applicable to clearance of title.	N/A	N/A
BMP 5b (refer to Section 3.5)	Place notification on the Certificates of Title of all proposed lots with a BAL rating of 12.5 or above	Notification will be placed on all titles with a rating of BAL-12.5 or greater in accordance with Condition 39 of subdivision approval. Notification shown on Deposited Plan.	Refer to Deposited Plan	Compliant

BMP reference	Action	Implementation status	Evidence of compliance	Compliant/ non-compliant
BMP 5c (refer to Section 3.5)	Comply with the City of Kwinana annual firebreak order	Relevant requirements of the City of Kwinana annual firebreak notice are being complied with, as per measure BMP 3c.	Refer above to BMP 3c	Compliant
BMP 5d (refer to Section 3.5)	Prepare Bushfire Emergency Evacuation Plans for any vulnerable land uses	N/A Stage 1 does not contain any vulnerable land uses.	N/A	N/A



Plate 1: EAW under construction (east-west section)

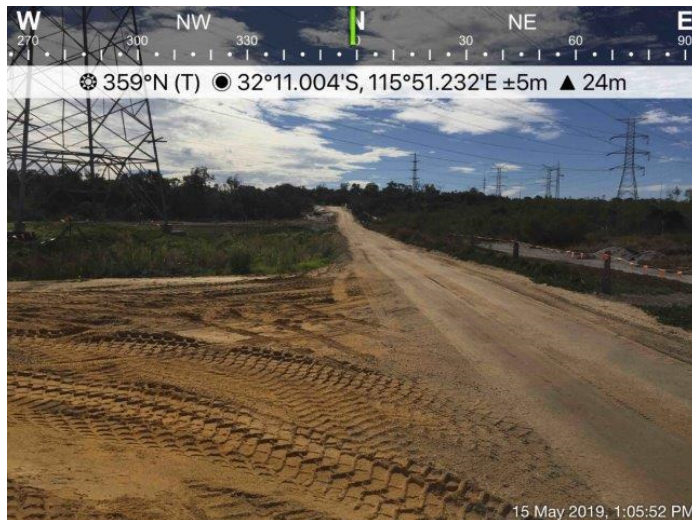


Plate 2: EAW constructed (north-south section)

3. Bushfire assessment results

3.1 Assessment inputs

3.1.1 Vegetation classification

Strategen assessed classified vegetation and exclusions within the project area and adjacent 150 m through on-ground verification on 15 May 2019 in accordance with *AS 3959—2018 Construction of Buildings in Bushfire-Prone Areas* (AS 3959; SA 2018) and the *Visual Guide for Bushfire Risk Assessment in Western Australia* (DoP, 2016). Georeferenced site photos and a description of the vegetation classifications and exclusions are contained in Appendix 2 and depicted in Figure 1.

Site observations show that the vegetation classifications and exclusions generally align with the post-development vegetation classifications determined under the endorsed BMP, including:

- Class B woodland contained to the south (future development areas), west (adjacent Lot 2 landholding) and east (Conservation POS) of the project area
- Class D scrub contained to the southeast (Western Power easement) of the project area
- land excluded from classification under Clauses 2.2.3.2 (e) and (f) as being non-vegetated or managed in a low threat state throughout all cleared/earthworked areas (i.e. within the project area and adjacent low threat staging buffers)
- land excluded from classification under Clause 2.2.3.2 (c) as being multiple areas of vegetation less than 0.25 ha in area and not within 20 m of the site, or each other, or other areas of vegetation being classified (i.e. small vegetated pockets retained to the north within the Planning Control Area adjacent to Rowley Road).

3.1.2 Effective slope

Strategen assessed effective slope under classified vegetation within the 150 m assessment area through on-ground verification on 15 May 2019 in accordance with AS 3959. Results were cross-referenced with DAFWA 2 m contour data and are depicted in Figure 1. Site observations show that effective slope under the classified vegetation generally aligns with the effective slopes identified under the endorsed BMP, this being that all classified vegetation is flat/up-slope in relation to the project area.

3.1.3 Summary of inputs

Figure 1 illustrates the current post-development vegetation classifications and exclusions observed during the inspection. The vegetation classifications/exclusions and effective slope are summarised in Table 3.

Table 3: Summary of vegetation classifications, exclusions and effective slope

Vegetation plot	Vegetation classification	Effective slope
1	Class B Woodland	Flat/upslope (0°)
2	Class D Scrub	Flat/upslope (0°)
3	Excluded – Clause 2.2.3.2 [c]	N/A
4	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])	N/A

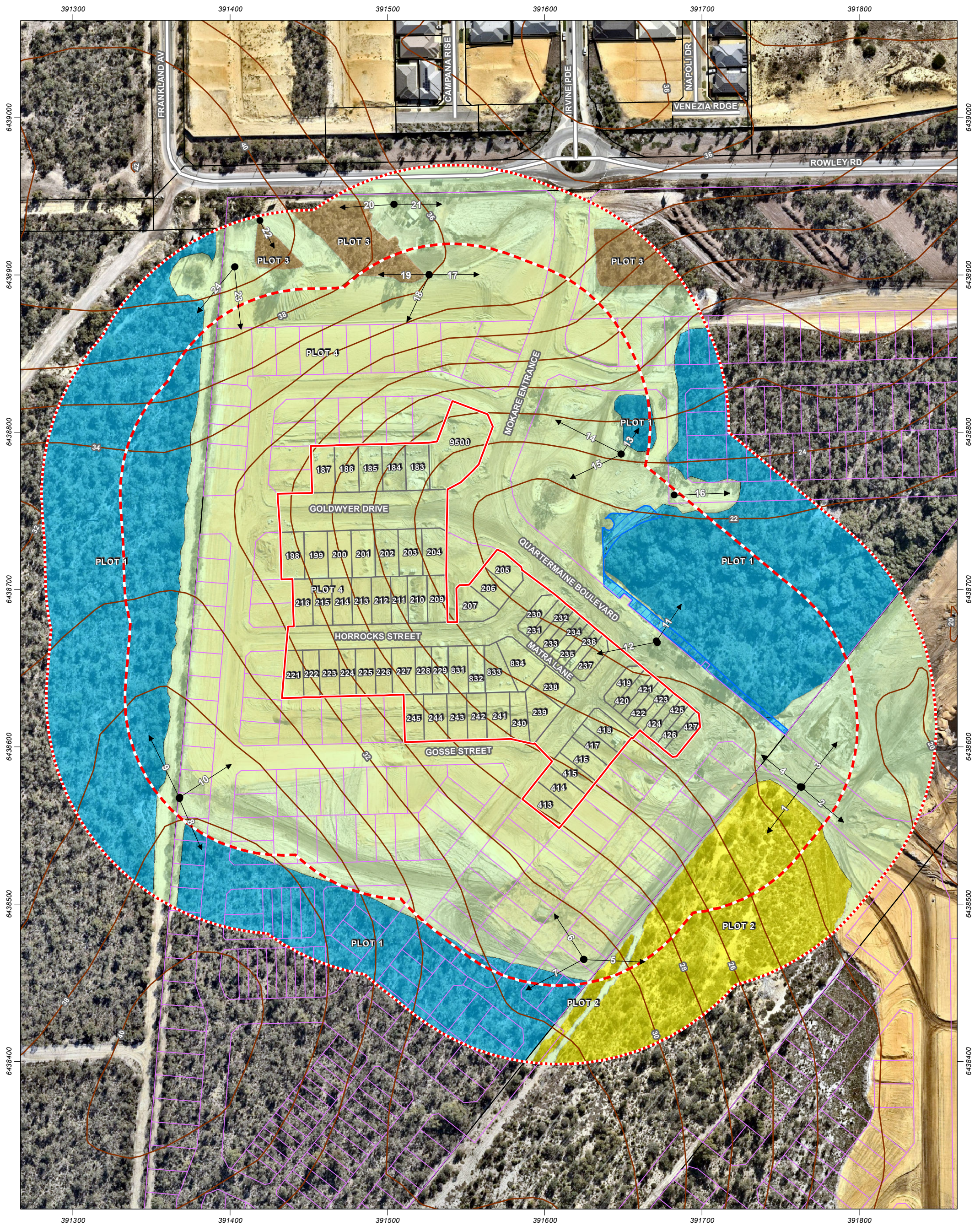
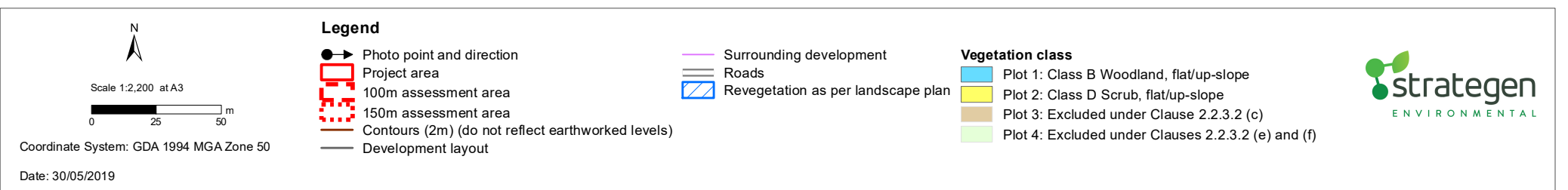


Figure 1: Stage 1 Apsley BMP compliance: Vegetation classification and effective slope



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3.2 Assessment outputs

3.2.1 Bushfire Attack Level (BAL) contour assessment

Strategen has undertaken a BAL contour assessment in accordance with Method 1 of AS 3959 for the project area (Figure 2). The Method 1 procedure incorporates the following factors:

- state-adopted FDI 80 rating
- vegetation class
- effective slope
- distance maintained between proposed development areas and the classified vegetation.

The BAL contours are based on the current on-ground site conditions in accordance with the recent site compliance check undertaken on 15 May 2019. Results of the BAL contour assessment are detailed in Table 4 and illustrated in Figure 2. Where applicable, Table 4 recommends building setbacks for future buildings to achieve a lower BAL.

Table 4: BAL contour assessment results

Method 1 BAL determination							
Lot	Vegetation Plot	Vegetation classification	Effective slope	Separation distance (m)	Highest BAL	Setback required to achieve lower BAL	Potential modified BAL [^]
183	1	Class B Woodland	Flat/upslope (0°)	112	BAL-Low	N/A	N/A
184	1	Class B Woodland	Flat/upslope (0°)	121	BAL-Low	N/A	N/A
185	1	Class B Woodland	Flat/upslope (0°)	106	BAL-Low	N/A	N/A
186	1	Class B Woodland	Flat/upslope (0°)	91	BAL-12.5	N/A	N/A
187	1	Class B Woodland	Flat/upslope (0°)	76	BAL-12.5	N/A	N/A
198	1	Class B Woodland	Flat/upslope (0°)	61	BAL-12.5	N/A	N/A
199	1	Class B Woodland	Flat/upslope (0°)	76	BAL-12.5	N/A	N/A
200	1	Class B Woodland	Flat/upslope (0°)	91	BAL-12.5	N/A	N/A
201	1	Class B Woodland	Flat/upslope (0°)	105	BAL-Low	N/A	N/A
202	1	Class B Woodland	Flat/upslope (0°)	121	BAL-Low	N/A	N/A
203	1	Class B Woodland	Flat/upslope (0°)	115	BAL-Low	N/A	N/A
204	1	Class B Woodland	Flat/upslope (0°)	100	BAL-Low	N/A	N/A
205	1	Class B Woodland	Flat/upslope (0°)	51	BAL-12.5	N/A	N/A
206	1	Class B Woodland	Flat/upslope (0°)	57	BAL-12.5	N/A	N/A
207	1	Class B Woodland	Flat/upslope (0°)	68	BAL-12.5	N/A	N/A
209	1	Class B Woodland	Flat/upslope (0°)	100	BAL-Low	N/A	N/A

Method 1 BAL determination							
Lot	Vegetation Plot	Vegetation classification	Effective slope	Separation distance (m)	Highest BAL	Setback required to achieve lower BAL	Potential modified BAL [^]
210	1	Class B Woodland	Flat/upslope (0°)	112	BAL-Low	N/A	N/A
211	1	Class B Woodland	Flat/upslope (0°)	124	BAL-Low	N/A	N/A
212	1	Class B Woodland	Flat/upslope (0°)	120	BAL-Low	N/A	N/A
213	1	Class B Woodland	Flat/upslope (0°)	109	BAL-Low	N/A	N/A
214	1	Class B Woodland	Flat/upslope (0°)	96	BAL-12.5	N/A	N/A
215	1	Class B Woodland	Flat/upslope (0°)	84	BAL-12.5	N/A	N/A
216	1	Class B Woodland	Flat/upslope (0°)	72	BAL-12.5	N/A	N/A
221	1	Class B Woodland	Flat/upslope (0°)	70	BAL-12.5	N/A	N/A
222	1	Class B Woodland	Flat/upslope (0°)	80	BAL-12.5	N/A	N/A
223	1	Class B Woodland	Flat/upslope (0°)	91	BAL-12.5	N/A	N/A
224	1	Class B Woodland	Flat/upslope (0°)	104	BAL-Low	N/A	N/A
225	1	Class B Woodland	Flat/upslope (0°)	114	BAL-Low	N/A	N/A
226	1	Class B Woodland	Flat/upslope (0°)	126	BAL-Low	N/A	N/A
227	1	Class B Woodland	Flat/upslope (0°)	126	BAL-Low	N/A	N/A
228	1	Class B Woodland	Flat/upslope (0°)	116	BAL-Low	N/A	N/A
229	1	Class B Woodland	Flat/upslope (0°)	106	BAL-Low	N/A	N/A
230	1	Class B Woodland	Flat/upslope (0°)	30	BAL-12.5	N/A	N/A
231	1	Class B Woodland	Flat/upslope (0°)	27	BAL-19	2 m truncated front setback	BAL-12.5
232	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
233	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
234	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
235	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
236	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
237	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5

Method 1 BAL determination							
Lot	Vegetation Plot	Vegetation classification	Effective slope	Separation distance (m)	Highest BAL	Setback required to achieve lower BAL	Potential modified BAL [^]
238	1	Class B Woodland	Flat/upslope (0°)	62	BAL-12.5	N/A	N/A
239	1	Class B Woodland	Flat/upslope (0°)	78	BAL-12.5	N/A	N/A
240	1	Class B Woodland	Flat/upslope (0°)	84	BAL-12.5	N/A	N/A
241	1	Class B Woodland	Flat/upslope (0°)	91	BAL-12.5	N/A	N/A
242	1	Class B Woodland	Flat/upslope (0°)	102	BAL-Low	N/A	N/A
243	1	Class B Woodland	Flat/upslope (0°)	111	BAL-Low	N/A	N/A
244	1	Class B Woodland	Flat/upslope (0°)	105	BAL-Low	N/A	N/A
245	1	Class B Woodland	Flat/upslope (0°)	100	BAL-Low	N/A	N/A
413	1	Class B Woodland	Flat/upslope (0°)	78	BAL-12.5	N/A	N/A
414	2	Class D Scrub	Flat/upslope (0°)	78	BAL-12.5	N/A	N/A
415	2	Class D Scrub	Flat/upslope (0°)	78	BAL-12.5	N/A	N/A
416	1	Class B Woodland	Flat/upslope (0°)	87	BAL-12.5	N/A	N/A
417	1	Class B Woodland	Flat/upslope (0°)	76	BAL-12.5	N/A	N/A
418	1	Class B Woodland	Flat/upslope (0°)	62	BAL-12.5	N/A	N/A
419	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
420	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
421	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
422	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
423	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
424	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
425	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
426	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
427	1	Class B Woodland	Flat/upslope (0°)	24.4	BAL-19	4.6 m front setback	BAL-12.5
831	1	Class B Woodland	Flat/upslope (0°)	95	BAL-12.5	5 m truncated side setback	BAL-Low
832	1	Class B Woodland	Flat/upslope (0°)	85	BAL-12.5	N/A	N/A

Method 1 BAL determination							
Lot	Vegetation Plot	Vegetation classification	Effective slope	Separation distance (m)	Highest BAL	Setback required to achieve lower BAL	Potential modified BAL [^]
833	1	Class B Woodland	Flat/upslope (0°)	77	BAL-12.5	N/A	N/A
834	1	Class B Woodland	Flat/upslope (0°)	63	BAL-12.5	N/A	N/A
9500	1	Class B Woodland	Flat/upslope (0°)	77	BAL-12.5	N/A	N/A

[^] The modified BAL can only be confirmed once the building plan for the relevant lot has been prepared to demonstrate compliance with the recommended setback.

3.2.2 BAL certificates

BAL certificates for the subject lots are provided in Appendix 1 in accordance with the BAL contour assessment results detailed in Table 4.

Should a lower BAL rating be realistically achievable through an appropriate building setback, then the landowner can refer to the recommended setbacks listed in Table 4 where applicable. The lower BAL rating may be achieved if the recommended building setback is reflected on the building plan for that lot and a revised BAL certificate can be issued at that time.

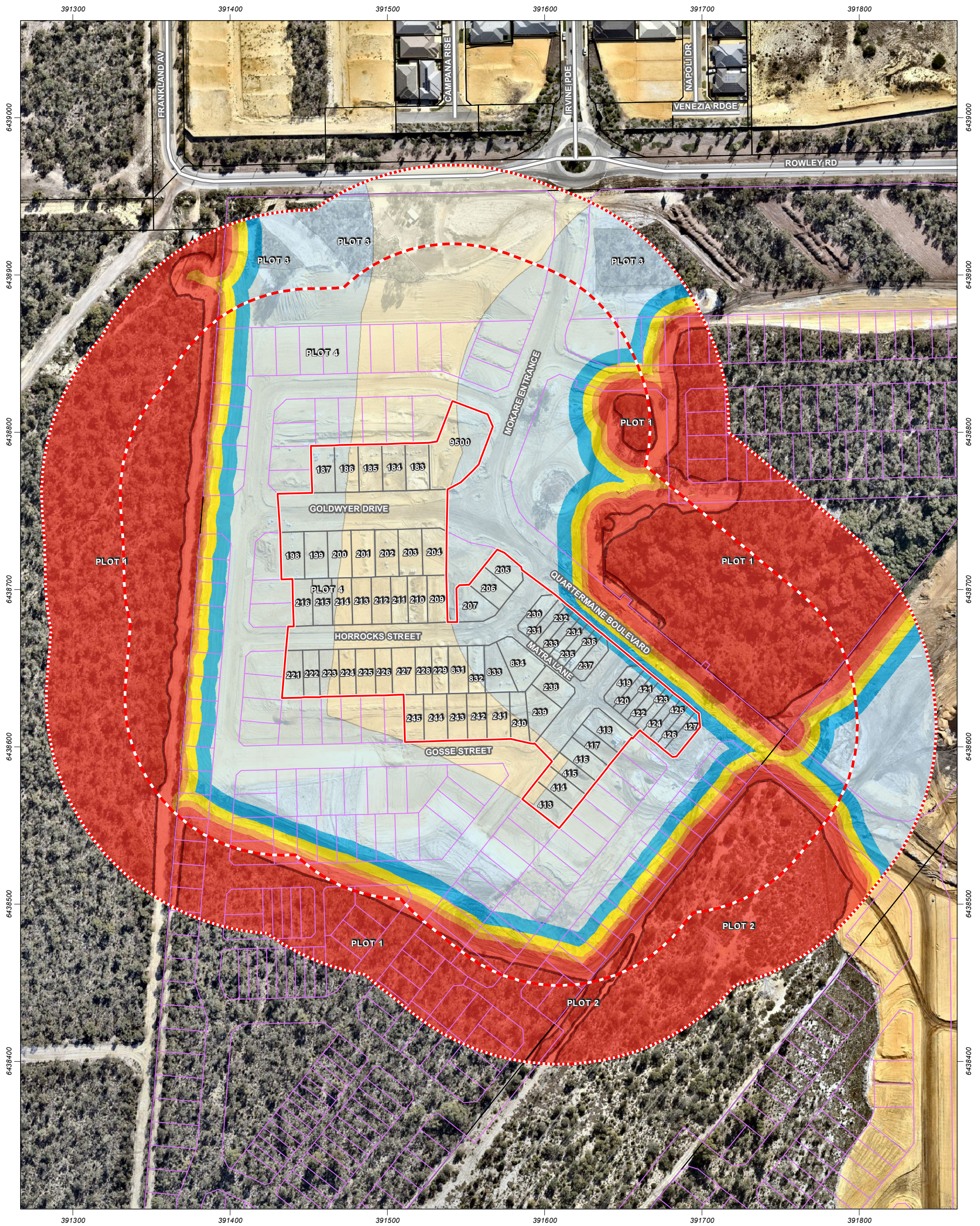


Figure 2: Stage 1 Apsley BMP compliance: BAL contour map



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4. Conclusion and recommendations

This BMP compliance report has been prepared for 68 lots within Stage 1 Apsley to facilitate the subdivision clearance process and provide confirmation that the approved BMP has been implemented as intended. This compliance audit also provides a final BAL check for individual Stage 1 lots, including the provision of BAL certificates for use by prospective purchasers at the building permit stage. Assessment results are consistent with current on-ground conditions. Strategen can confirm that the existing BMP over the site has been implemented as intended throughout the duration of subdivisional works for the relevant Stage 1 area and adjacent land to achieve the BAL outcomes as planned for in these documents. Strategen can also confirm that the bushfire protection criteria of the Guidelines have effectively been complied with for the Stage 1 area.

Strategen considers that the BAL contour assessment and BAL certificates outlined in this report are accurate to inform individual lot building permit applications. Should it be determined through demonstration on individual building plans that compliance with the recommended building setbacks has been achieved and subsequently a lower BAL rating has been attained (as per Table 4), then the lower BAL rating should apply and be reflected in an updated BAL certificate prepared at that time.

Ongoing developer commitments outlined in the approved Strategen (2017) BMP, as well as the current City of Kwinana annual firebreak notice will continue to be implemented as required, particularly with regards to ongoing fuel management of vacant land, staging buffers, POS and road reserves.

5. References

Department of Planning (DoP) 2016, *Visual guide for bushfire risk assessment in Western Australia*, Department of Planning, Perth.

Standards Australia (SA) 2018, *Australian Standard AS 3959–2018 Construction of Buildings in Bushfire-prone Areas*, Standards Australia, Sydney.

Strategen Environmental 2017, *Bushfire Management Plan: Lot 682 Rowley Road, Mandogalup*, report prepared for QUBE Property Group Pty Ltd, August 2017.

Western Australian Planning Commission (WAPC) 2017, *Guidelines for Planning in Bushfire Prone Areas*, Version 1.3 August 2017, Western Australian Planning Commission, Perth.

Appendix 1
BAL certificates

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			183	Goldwyer Drive / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	112 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>ZC</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.



Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			184	Goldwyer Drive / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	121 m	BAL – LOW

BPAD Accredited Practitioner Details

<p>Name Zac Cockerill</p> <p>Company Details Strategen Environmental</p> <p>I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div> <p><i>Authorised Practitioner Stamp</i></p>
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Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			185	Goldwyer Drive / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	106 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
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Authorised Practitioner Stamp

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			186	Goldwyer Drive / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	91 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>ZC</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
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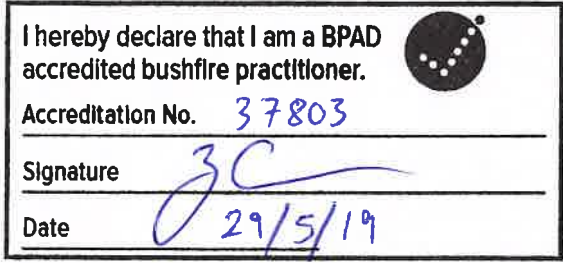
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			187	Goldwyer Drive / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	76 m	BAL - 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

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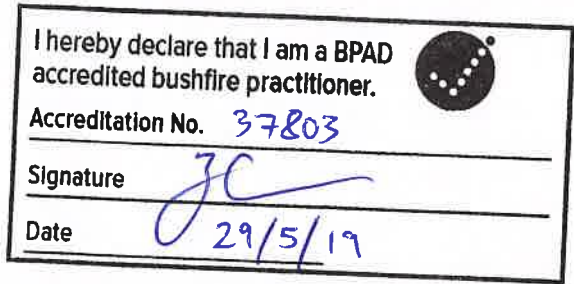
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			198	Goldwyer Drive / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	61 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner. Accreditation No. 37803 Signature <i>JC</i> Date 29/5/19</p>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			199	Goldwyer Drive / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	76 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>JC</i></u></p> <p>Date <u>29/5/19</u></p> </div>
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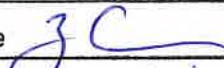
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			200	Goldwyer Drive / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	91 m	BAL - 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div>
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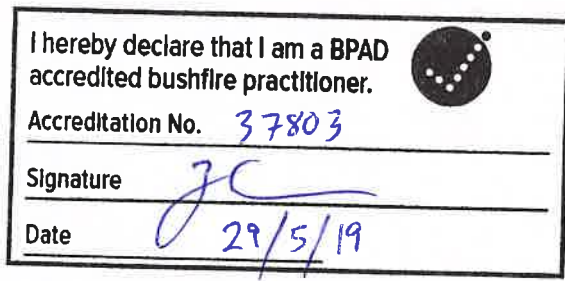
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			201	Goldwyer Drive / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	105 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>Zac Cockerill</i></p> <p>Date 29/5/19</p>
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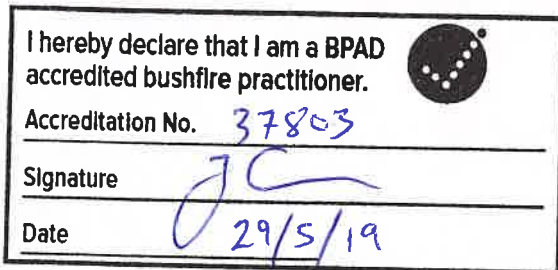
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			202	Goldwyer Drive / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	121 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>JC</i></p> <p>Date 29/5/19</p>
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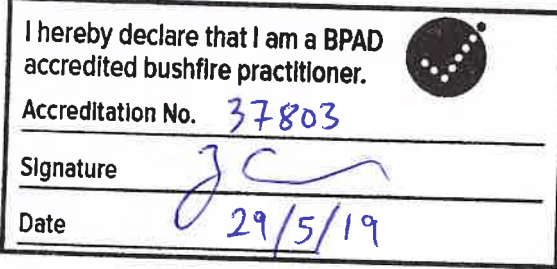
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			203	Goldwyer Drive / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	115 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

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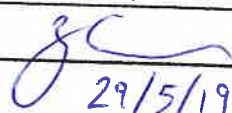
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			204	Goldwyer Drive / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	100 m	BAL – LOW

BPAD Accredited Practitioner Details

<p>Name Zac Cockerill</p> <p>Company Details Strategen Environmental</p> <p>I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.</p>	<div style="border: 2px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div> <p style="text-align: center; margin-top: 10px;"><i>Authorised Practitioner Stamp</i></p>
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			205	Horrocks Street / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	51 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
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Authorised Practitioner Stamp

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			206	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	57 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>ZC</i></u></p> <p>Date <u>29/5/19</u></p> </div> <p><i>Authorised Practitioner Stamp</i></p>
Company Details Strategen Environmental	
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			207	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	68 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
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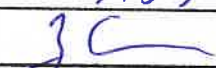
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			209	Horrocks Street / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Use(s) of the building					
Description of the building or works	Class 1a		Residential dwelling			
Class 1a building with associated Class 10a structure						

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			210	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	112 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			211	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Use(s) of the building				
Description of the building or works	Class 1a		Residential dwelling		
	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	124 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			212	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	120 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>JC</u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.



Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			213	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	109 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
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Authorised Practitioner Stamp

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			214	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	96 m	BAL - 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
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Authorised Practitioner Stamp

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			215	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	84 m	BAL - 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			216	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Use(s) of the building		Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	72 m	BAL - 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>ZC</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			221	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	70 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			222	Horrocks Street / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	80 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>ZC</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

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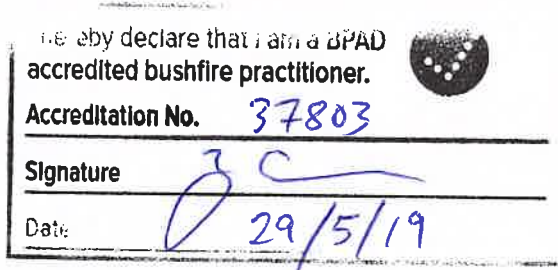
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			223	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	91 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date: <u>29/5/19</u></p> <p><i>Authorised Practitioner Stamp</i></p>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

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This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			224	Horrocks Street / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Class 1a		Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	104 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
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Authorised Practitioner Stamp

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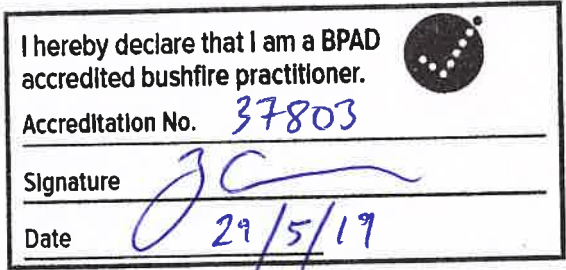
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			225	Horrocks Street / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	114 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

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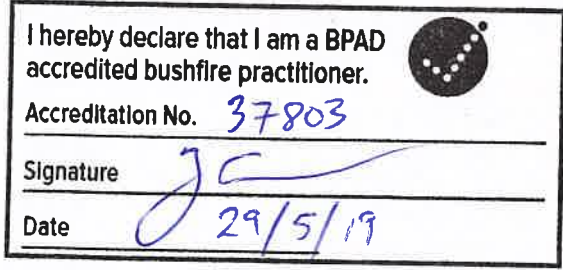
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			226	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	126 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 29/5/19</p>
Company Details Strategen Environmental	
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Authorised Practitioner Stamp

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Bushfire Attack Level (BAL) Certificate

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			227	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	126 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>JC</u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
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Authorised Practitioner Stamp

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Bushfire Attack Level (BAL) Certificate

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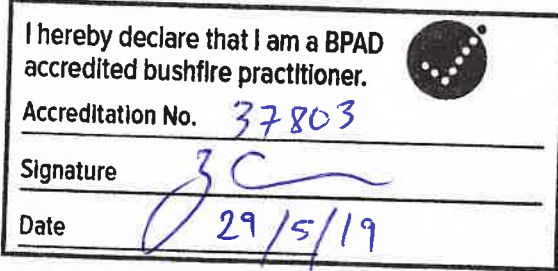
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			228	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	116 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>Zac Cockerill</i></p> <p>Date 29/5/19</p>
Company Details Strategen Environmental	
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Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			229	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Use(s) of the building				
Description of the building or works	Class 1a		Residential dwelling		
	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	106 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

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This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			230	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	30 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>ZC</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

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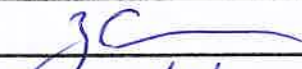
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			231	Matra Lane / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	27 m (lower BAL achievable with building setback)	BAL - 19

BPAD Accredited Practitioner Details

<p>Name Zac Cockerill</p>	<div style="border: 1px solid black; padding: 10px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div> <p><i>Authorised Practitioner Stamp</i></p>
<p>Company Details Strategen Environmental</p>	
<p>I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.</p>	

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			232	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Use(s) of the building				
Description of the building or works	Class 1a		Residential dwelling		
	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
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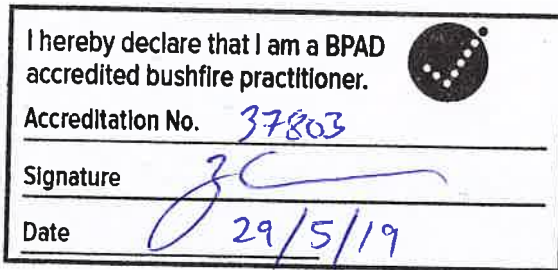
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			233	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Use(s) of the building				
Description of the building or works	Class 1a		Residential dwelling		
Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>Zac Cockerill</i></p> <p>Date 29/5/19</p>
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			234	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Use(s) of the building				
Class 1a	Residential dwelling				
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>JC</u></p> <p>Date <u>29/5/19</u></p> </div>
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			235	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL - 19

BPAD Accredited Practitioner Details

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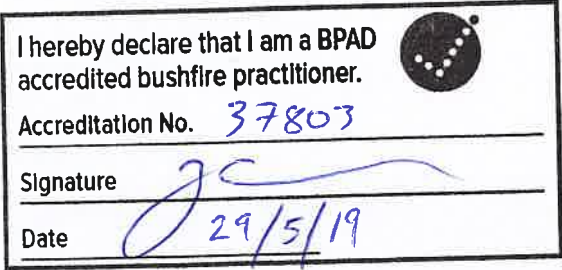
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			236	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL - 19

BPAD Accredited Practitioner Details

<p>Name Zac Cockerill</p>	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner. Accreditation No. <u>37803</u> Signature <u>[Signature]</u> Date <u>29/5/19</u></p>
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			237	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Use(s) of the building				
Class 1a	Residential dwelling				
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div>
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			238	Townsend Parkway / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	62 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

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Bushfire Attack Level (BAL) Certificate

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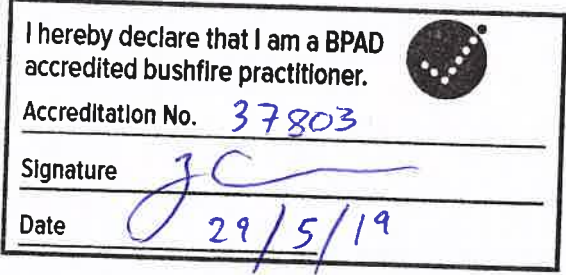
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			239	Gosse Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	78 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>Zac Cockerill</i></p> <p>Date 29/5/19</p>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

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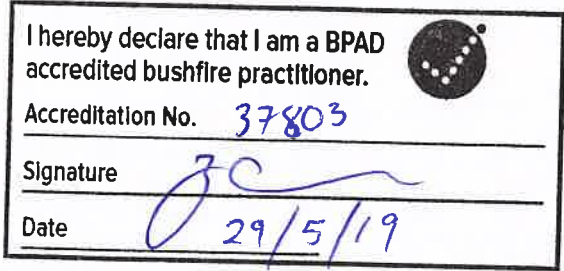
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			240	Gosse Street / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	84 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>29/5/19</u></p>
Company Details Strategen Environmental	
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			241	Gosse Street / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	91 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>29/5/19</u></p> </div> <p><i>Authorised Practitioner Stamp</i></p>
Company Details Strategen Environmental	
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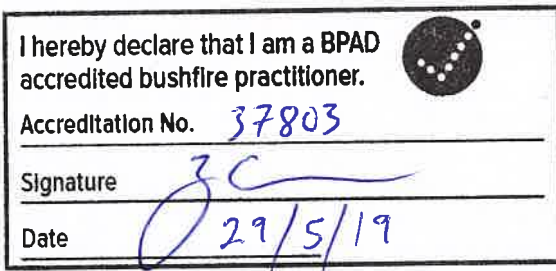
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			242	Gosse Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	102 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>29/5/19</u></p>
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			243	Gosse Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	111 m	BAL – LOW

BPAD Accredited Practitioner Details

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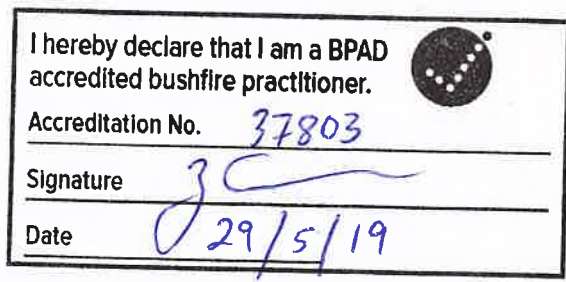
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			244	Gosse Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	105 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 29/5/19</p>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			245	Gosse Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>JC</u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
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Authorised Practitioner Stamp

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			413	Townsend Parkway / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	78 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div>
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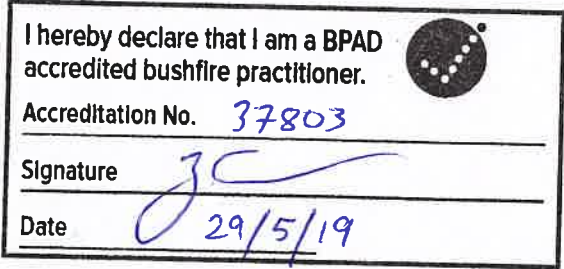
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			414	Townsend Parkway / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class D Scrub	Flat/upslope	78 m	BAL - 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	
Company Details Strategen Environmental	
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Bushfire Attack Level (BAL) Certificate

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			415	Townsend Parkway / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class D Scrub	Flat/upslope	78 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
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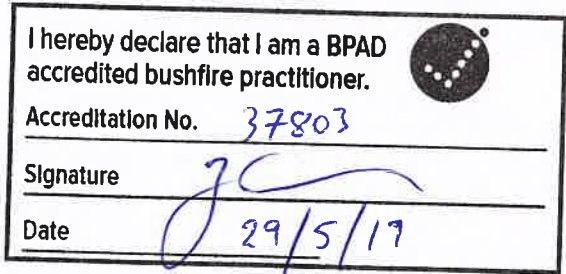
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			416	Townsend Parkway / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	87 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. 37803</p> <p>Signature <i>[Signature]</i></p> <p>Date 29/5/17</p>
Company Details Strategen Environmental	
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			417	Townsend Parkway / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	76 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>ZC</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
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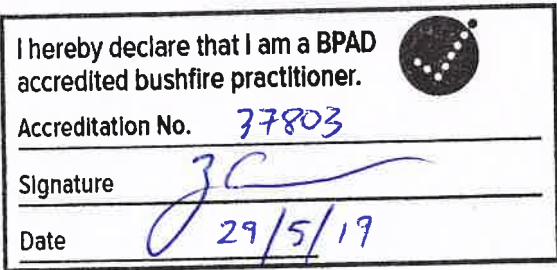
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			418	Townsend Parkway / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	62 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Accreditation No. <u>77803</u></p> <p>Signature <u>[Signature]</u></p> <p>Date <u>29/5/19</u></p>
Company Details Strategen Environmental	
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			419	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL - 19

BPAD Accredited Practitioner Details

<p>Name Zac Cockerill</p>	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>ZC</i></u></p> <p>Date <u>29/5/19</u></p> </div>
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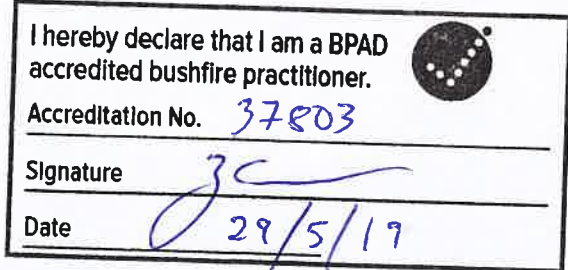
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			420	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL - 19

BPAD Accredited Practitioner Details

<p>Name Zac Cockerill</p>	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner. Accreditation No. 37803 Signature [Signature] Date 29/5/19</p>
<p>Company Details Strategen Environmental</p>	
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			421	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Use(s) of the building				
Class 1a	Residential dwelling				
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div>
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			422	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL - 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u>JC</u></p> <p>Date <u>29/5/19</u></p> </div>
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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			423	Matra Lane / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37203</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			424	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Use(s) of the building				
Class 1a	Residential dwelling				
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
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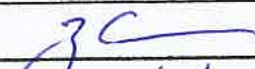
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			425	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL – 19

BPAD Accredited Practitioner Details

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Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			426	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Use(s) of the building				
Class 1a	Residential dwelling				
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			427	Matra Lane / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	24.4 m (lower BAL achievable with building setback)	BAL – 19

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>ZC</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

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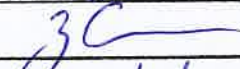
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			831	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Use(s) of the building				
Class 1a	Residential dwelling				
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	95 m (lower BAL achievable with building setback)	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

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This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.


Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference		
			832	Horrocks Street / Apsley Estate		
Local government area	Suburb			State	Postcode	
	Mandogalup			WA	6167	
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling			
Description of the building or works	Class 1a building with associated Class 10a structure					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	85 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u><i>Zac Cockerill</i></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

This Certificate has been issued by a person accredited by Fire Protection Association Australia under the Bushfire Planning and Design (BPAD) Accreditation Scheme. The certificate details the conclusions of the full Bushfire Attack Level Assessment Report (full report) prepared by the Accredited Practitioner.



Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			833	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	77 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	<div style="border: 1px solid black; padding: 5px;"> <p>I hereby declare that I am a BPAD accredited bushfire practitioner. </p> <p>Accreditation No. <u>37803</u></p> <p>Signature <u></u></p> <p>Date <u>29/5/19</u></p> </div>
Company Details Strategen Environmental	
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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

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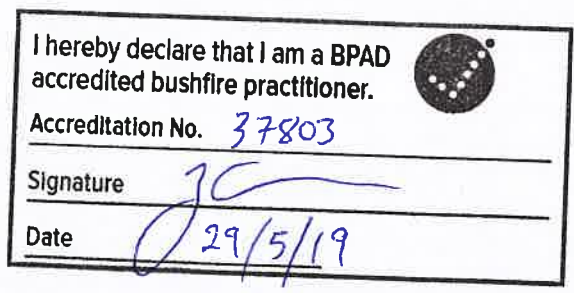
Property Details and Description of Works

Address Details	Unit no	Street no	Lot no	Street name / Plan Reference	
			834	Horrocks Street / Apsley Estate	
Local government area	Suburb			State	Postcode
	Mandogalup			WA	6167
Main BCA class of the building	Class 1a	Use(s) of the building	Residential dwelling		
Description of the building or works	Class 1a building with associated Class 10a structure				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Flat/upslope	63 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Zac Cockerill	 <p>I hereby declare that I am a BPAD accredited bushfire practitioner. Accreditation No. 37803 Signature _____ Date 29/5/19</p>
Company Details Strategen Environmental	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.	

Authorised Practitioner Stamp

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Appendix 2

Vegetation plot photos and description



Photo ID: 1

Plot number	Plot 2 (background)
Vegetation classification	Class D Scrub
Description / justification	Scrub vegetation greater than 2 m in height at maturity.

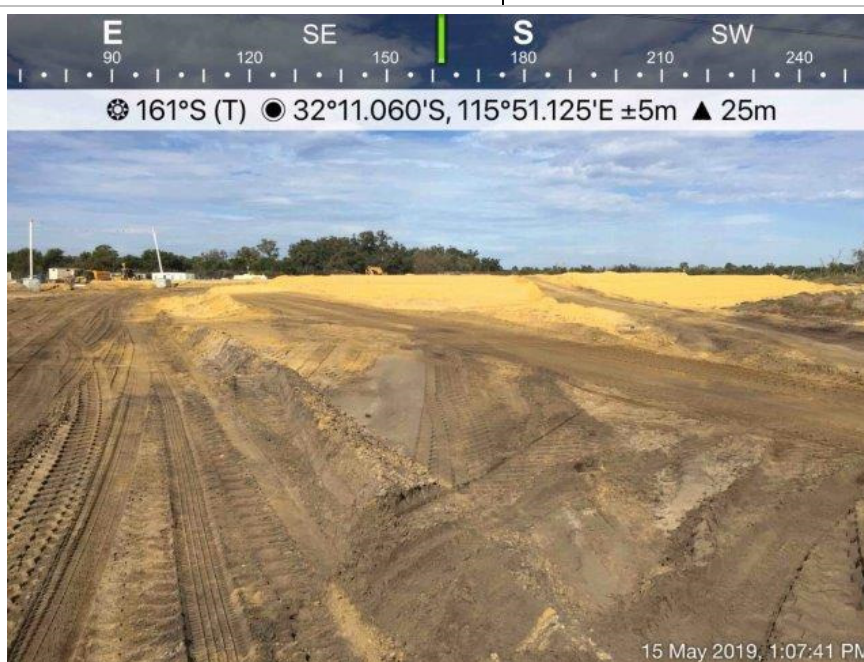


Photo ID: 2

Plot number	Plot 4
Vegetation classification	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])
Description / justification	Cleared earthworked area (proposed development).



Photo ID: 3

Plot number	Plot 4
Vegetation classification	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])
Description / justification	Cleared earthworked area (proposed low threat POS).



Photo ID: 4

Plot number	Plot 4
Vegetation classification	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])
Description / justification	Cleared earthworked area (proposed road).



Photo ID: 5

Plot number	Plot 2 (right of shot)
Vegetation classification	Class D Scrub
Description / justification	Scrub vegetation greater than 2 m in height at maturity.

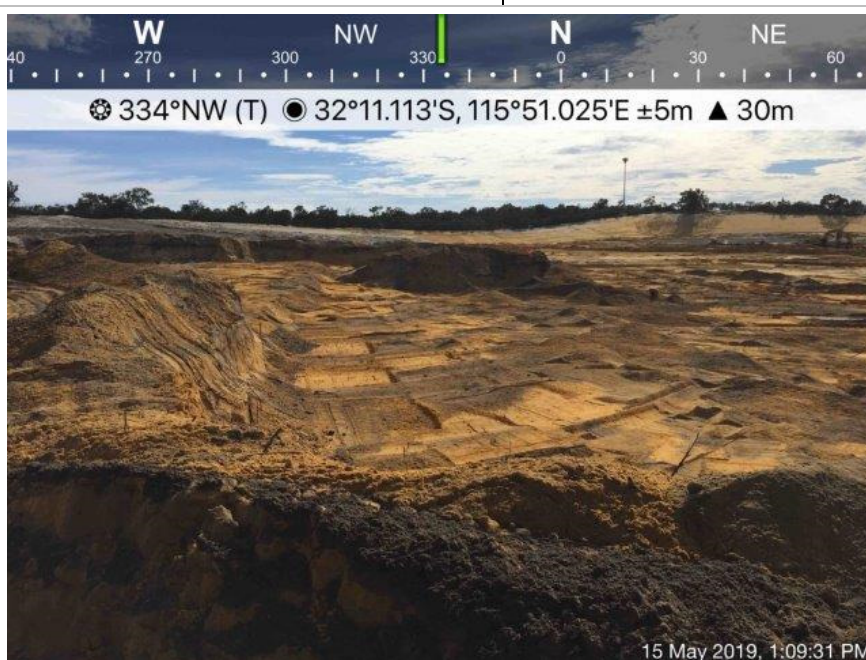


Photo ID: 6

Plot number	Plot 4
Vegetation classification	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])
Description / justification	Cleared earthworked area (proposed development).



Photo ID: 7

Plot number	Plot 1
Vegetation classification	Class B Woodland
Description / justification	Typical intact banksia woodland vegetation.



Photo ID: 8

Plot number	Plot 1 (right of shot)
Vegetation classification	Class B Woodland
Description / justification	Typical intact banksia woodland vegetation.



Photo ID: 9

Plot number	Plot 1
Vegetation classification	Class B Woodland
Description / justification	Typical intact banksia woodland vegetation.



Photo ID: 10

Plot number	Plot 4
Vegetation classification	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])
Description / justification	Cleared earthworked area (proposed development).



Photo ID: 11

Plot number	Plot 1
Vegetation classification	Class B Woodland
Description / justification	Typical intact banksia woodland vegetation. Accounts for proposed revegetation as per Landscape Plan.



Photo ID: 12

Plot number	Plot 4
Vegetation classification	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])
Description / justification	Cleared earthworked area (proposed development).



Photo ID: 13

Plot number	Plot 1
Vegetation classification	Class B Woodland
Description / justification	Typical intact banksia woodland vegetation.



Photo ID: 14

Plot number	Plot 4
Vegetation classification	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])
Description / justification	Cleared earthworked area (proposed POS and development).



Photo ID: 15

Plot number	Plot 4
Vegetation classification	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])
Description / justification	Cleared earthworked area (proposed POS and development).



Photo ID: 16

Plot number	Plot 1 (background, left and right of shot)
Vegetation classification	Class B Woodland
Description / justification	Typical intact banksia woodland vegetation.



Photo ID: 17

Plot number	Plot 4
Vegetation classification	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])
Description / justification	Cleared earthworked area (proposed low threat managed zone/sales office APZ).



Photo ID: 18

Plot number	Plot 4
Vegetation classification	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])
Description / justification	Cleared earthworked area (proposed development).



Photo ID: 19

Plot number	Plot 3
Vegetation classification	Excluded – Clause 2.2.3.2 [c]
Description / justification	Multiple areas of vegetation less than 0.25 ha in area and not within 20 m of the site, or each other, or other areas of vegetation being classified.



Photo ID: 20

Plot number	Plot 3 (left of shot)
Vegetation classification	Excluded – Clause 2.2.3.2 [c]
Description / justification	Multiple areas of vegetation less than 0.25 ha in area and not within 20 m of the site, or each other, or other areas of vegetation being classified.



Photo ID: 21

Plot number	Plot 4
Vegetation classification	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])
Description / justification	Cleared earthworked area (proposed low threat managed zone/sales office APZ).

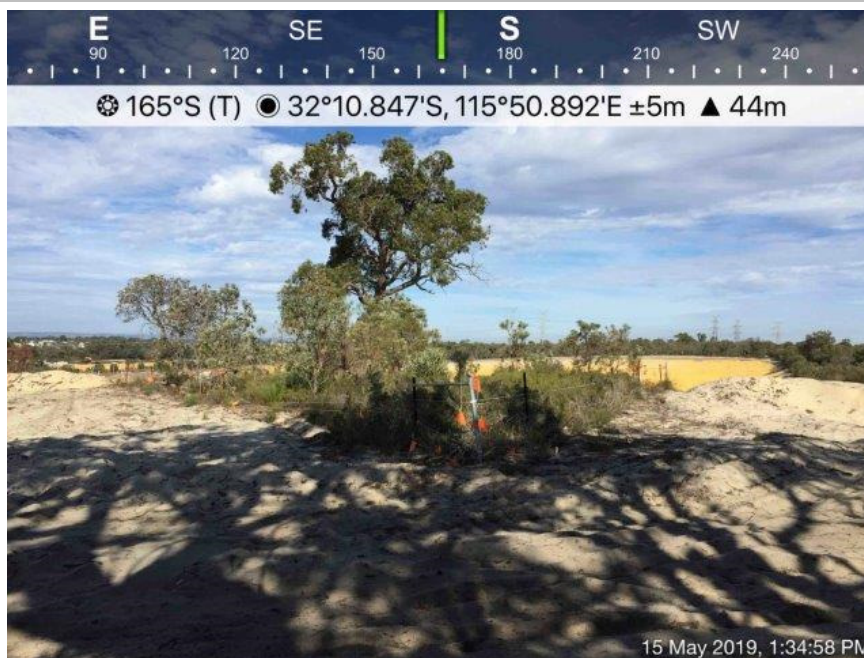


Photo ID: 22

Plot number	Plot 3
Vegetation classification	Excluded – Clause 2.2.3.2 [c]
Description / justification	Multiple areas of vegetation less than 0.25 ha in area and not within 20 m of the site, or each other, or other areas of vegetation being classified.



Photo ID: 23

Plot number	Plot 4
Vegetation classification	Excluded – Non-vegetated & Low threat (Clauses 2.2.3.2 [e] and [f])
Description / justification	Cleared earthworked area (proposed development).



Photo ID: 24

Plot number	Plot 1 (right of shot)
Vegetation classification	Class B Woodland
Description / justification	Typical intact banksia woodland vegetation.

Appendix 3
Approved clearing plan



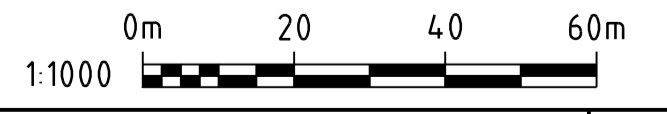
- ### GENERAL NOTES
- 1 ALL LEVELS IN METRES TO AHD. EXISTING SURVEY BY MNG
 - 2 NO CLEARING TO BE COMMENCED UNLESS APPROVED BY THE SUPERINTENDENT (REFER SPECIFICATION)
 - 3 ALL UNSUITABLE MATERIAL AND RUBBISH TO BE REMOVED BY THE CONTRACTOR TO APPROVED TIPPING SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL FEES TO BE PAID BY CONTRACTOR
 - 4 EXTENT OF CLEARING TO BE LIMITED TO THE CLEARING BOUNDARY UNLESS AGREED WITH THE SUPERINTENDENT. ALL VEGETATION OUTSIDE OF CLEARING BOUNDARIES TO BE STRICTLY RETAINED. CONTRACTOR TO INSTALL FLAGGING, SIGHTER WIRE & STAR PICKETS ALONG ALL CLEARING BOUNDARIES
 - 5 ALL CLEARED MATERIAL TO BE MULCHED AND STOCKPILED ON SITE AT LOCATION APPROVED BY SUPERINTENDENT. NO REMOVAL TO COMMENCE UNLESS APPROVED BY THE SUPERINTENDENT
 - 6 CONTRACTOR TO PHYSICALLY LOCATE ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS ON SITE
 - 7 THE CONTRACTOR SHALL LIMIT THE MOVEMENT OF EQUIPMENT AND MANPOWER TO THE MINIMUM AREA NECESSARY AND PROTECT ALL VEGETATION AND EXISTING SERVICES ON SITE
 - 8 ALL WIND FENCING TO DELINEATE VEGETATION THAT IS TO BE RETAINED. TO BE INSTALLED AND INSPECTED BY THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF CLEARING AND EARTHWORKS.

- ### LEGEND
- LIMIT OF CLEARING BOUNDARY
 - LIMIT OF CIVIL WORKS BOUNDARY
 - EXISTING OPTUS MAIN
 - EXISTING OVERHEAD POWERLINE
 - PROPOSED FENCE, REFER NOTE 4
 - EXISTING BORE LOCATION
 - EXISTING TREES TO BE RETAINED
 - AREA TO BE CLEARED

CONTRACTOR TO VERIFY EXISTING SURFACE CONTOURS AND LEVELS ARE CORRECT AND ACCURATE PRIOR TO STRIPPING OF TOPSOIL. FAILURE TO DO SO ABSOLUTELY VOIDS ANY CLAIM ASSOCIATED WITH THE ACCURACY OF EXISTING SURVEY INFORMATION. IF THE CONTRACTOR BELIEVES THE LEVELS ARE NOT CORRECT AND ACCURATE THEY SHALL IMMEDIATELY INFORM THE SUPERINTENDENT AND DELAY STRIPPING TOPSOIL UNTIL SUCH TIME AGREEMENT IS REACHED WITH RESPECT TO EXISTING SURFACE LEVELS.



NOTICE TO CONTRACTOR
 IT IS THE CONTRACTORS RESPONSIBILITY TO INVESTIGATE THE NATURE AND LOCATION OF ALL SERVICES WHICH MAY BE ENCOUNTERED AND TO CONSULT WITH THE RELEVANT SERVICE AUTHORITIES PRIOR TO COMMENCEMENT OF EXCAVATIONS. FAILURE TO DO SO OR TO TAKE DUE CARE SHALL NOT LIMIT THE CONTRACTORS LIABILITY FOR REPAIR OF ALL SERVICES DAMAGED BY HIM DURING CONSTRUCTION WORKS. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY FOR THE PROTECTION OF ALL EXISTING SERVICES.



P:6027-Manage@6027-01-100-101.dwg, 28/01/2019 2:16:08 PM, a1starrh, Digital Signing PDF, p.3, 1.1 - CIV Reference

REV	DATE	DRN	CKD	APP	AMENDMENT	REV	DATE	DRN	CKD	APP	AMENDMENT
4	29.01.19	ARH	SM	A. THOMSON	EXTRA TREES TO BE RETAINED ADDED TO POS AREA	F	03.08.18	ARH	SM	A. THOMSON	CLEARING AMENDED TO COUNCIL COMMENTS
3	06.12.18	ARH	SM	A. THOMSON	CLEARING NOTE ADDED	E	05.07.18	AMP	SM	A. THOMSON	CLEARING BOUNDARY AMENDED
2	05.11.18	ARH	SM	A. THOMSON	CLEARING UPDATED UNDER WESTERN POWER EASEMENT	D	02.07.18	ARH	SM	A. THOMSON	CLEARING BOUNDARIES AMENDED
1	21.09.18	ARH	SM	A. THOMSON	TREES FOR PROTECTION ADDED	C	16.03.18	ARH	SM	A. THOMSON	ISSUED FOR COUNCIL APPROVAL
0	06.08.18	ARH	SM	A. THOMSON	ISSUED FOR CONSTRUCTION	B	11.01.18	ARH	SM	A. THOMSON	CLEARING BOUNDARY UPDATED, PRESSURE MAIN ADDED

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This plan is not to be used for construction unless issued as revision 0 or higher

CW Cossill & Webley CONSULTING ENGINEERS
 Mailing Address: PO Box 680, Subiaco WA 6904
 Street Address: B12 (Level 2) 431 Roberts Road, Subiaco WA 6008

T (08) 9422 5800 F (08) 9422 5801 E admin@cosweb.com.au

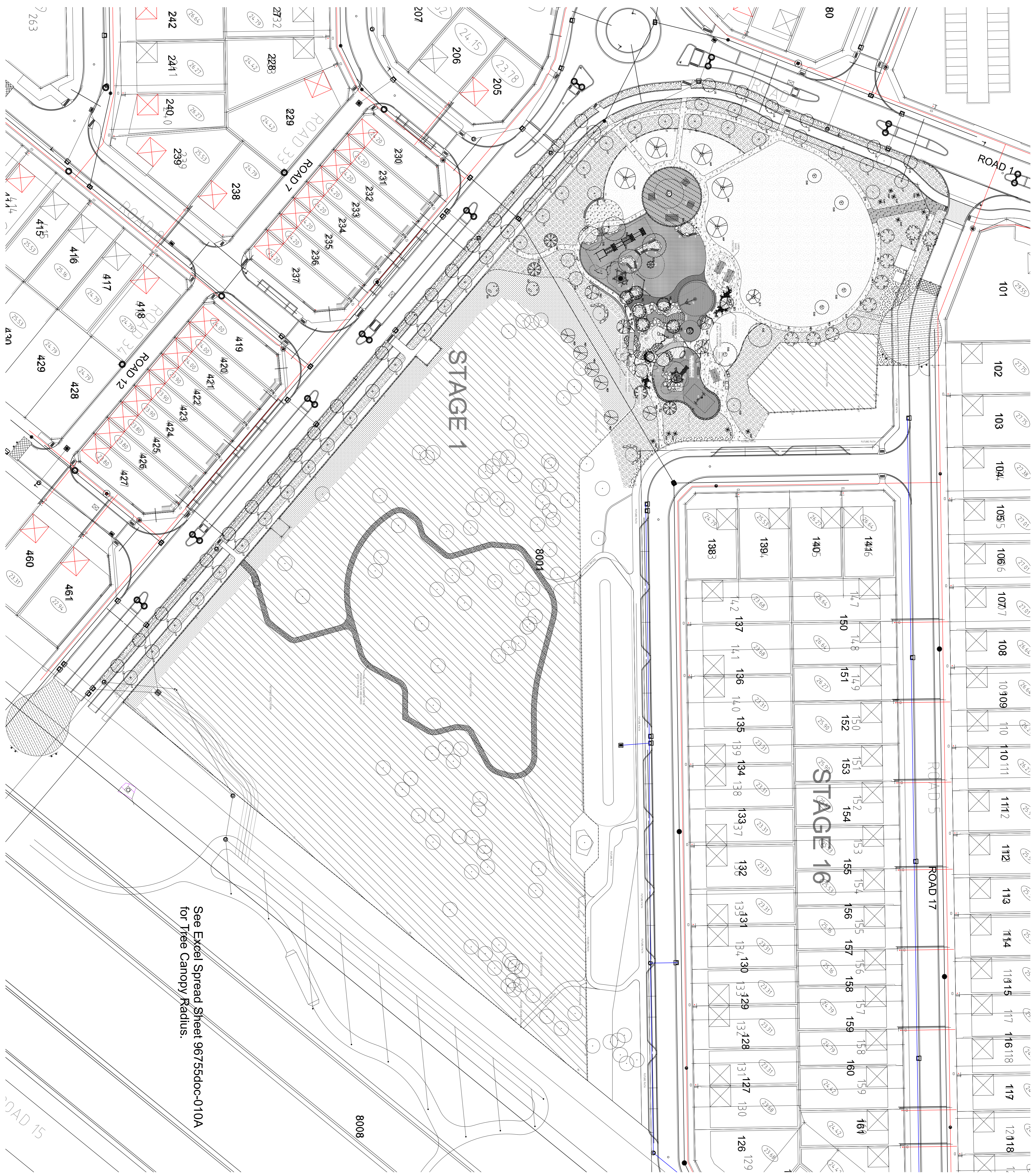
QUBE

APPROVED: AVRIL THOMSON
 DESIGNED: ARH
 SCALE: 1:1000

PROJECT	APSLEY - STAGE 01		
TITLE	CLEARING AND SITWORKS PLAN		
	SHEET 1 OF 2		
WAPC No.	155567	DRAWING No.	6027-01-100
REVISION	4		

ORIGINAL SIZE A1

Appendix 4
POS landscape plan



See Excel Spread Sheet 96755doc-010A
for Tree Canopy Radius.

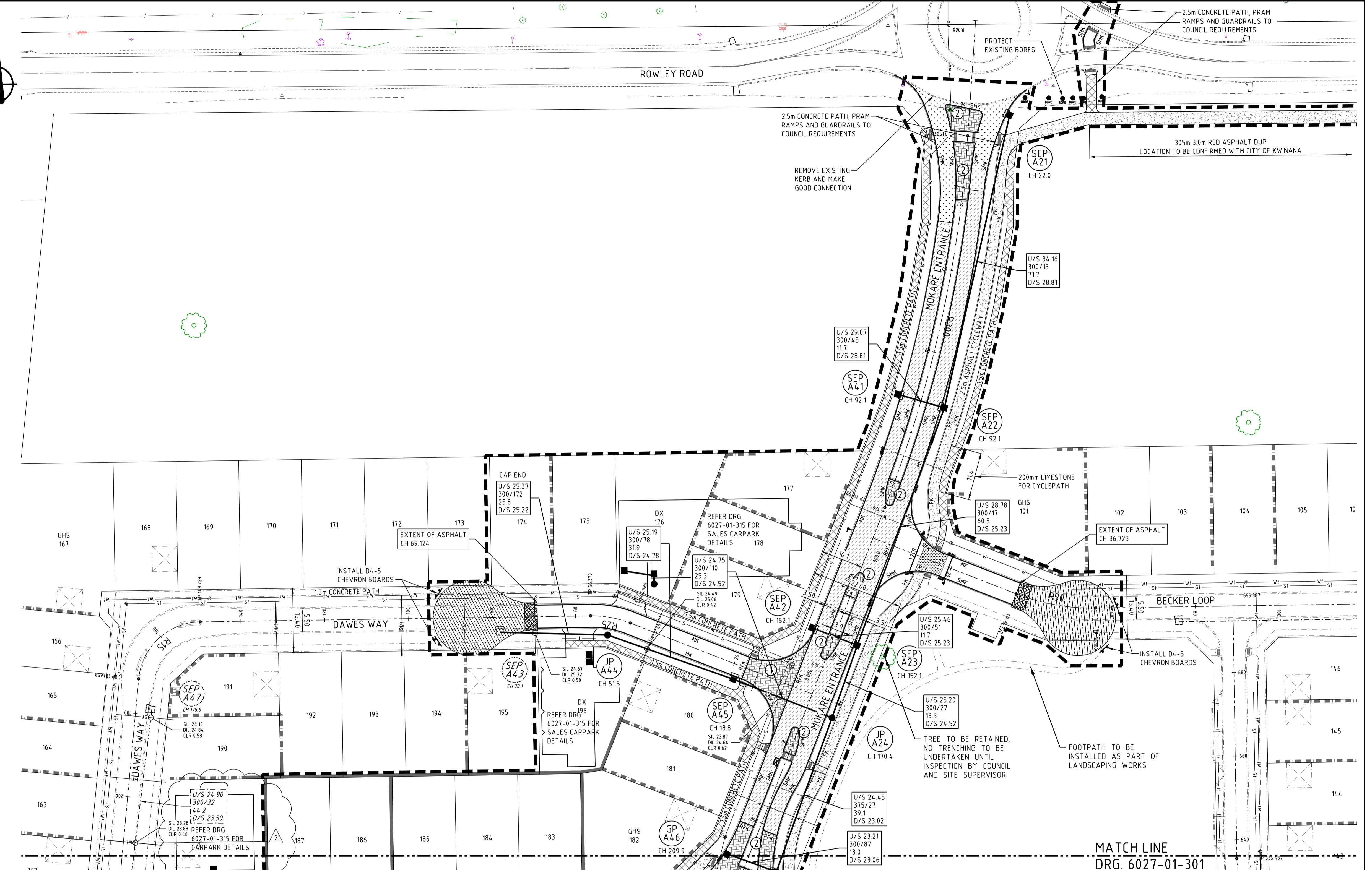
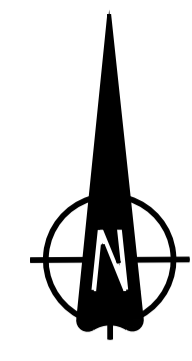
8008

ROAD 15

Appendix 5
Roadworks layout plan

LEGEND

- PROPOSED ROAD
 - EXISTING ROAD
 - FUTURE ROAD
 - PROPOSED DRAINAGE
 - EXISTING DRAINAGE
 - FUTURE DRAINAGE
 - PROPOSED SEWER
 - EXISTING SEWER
 - FUTURE SEWER
 - PROPOSED WATER
 - EXISTING WATER
 - EXISTING POWER
 - EXISTING TELSTRA
 - EXISTING GAS
-
- PROPOSED JUNCTION PIT, SIDE ENTRY PIT, STANDARD GULLY PIT AND CIRCULAR GULLY PIT
 - JP A2 CH 10.0
 - SEP A3 CH 20.0
 - GP A4 CH 30.0
 - CGP A5 CH 40.0
-
- PROPOSED DRAINAGE PIPE WITH JP, SEP, GP AND CGP
-
- | PROPOSED | EXISTING | FUTURE |
|---|---|---|
| U/S 22.40
300/158
26.8
D/S 22.23 | U/S 22.40
300/158
26.8
D/S 22.23 | U/S 22.40
300/158
26.8
D/S 22.23 |
- UPSTREAM I.L. PIPE DIA / GRADE DISTANCE BETWEEN PITS DOWNSTREAM I.L.
-
- PROPOSED KERB & 2m TRANSITION
-
- PROPOSED DUAL USE PATH WITH PRAM RAMP & TACTILE PAVERS
-
- BLACK ASPHALT PAVEMENT 25mm AC
 - BRICK PAVING
 - RED ASPHALT PAVEMENT 25mm AC
 - RED ASPHALT PAVEMENT 25mm AC (CYCLEPATH)
 - BLACK ASPHALT PAVEMENT 40mm AC
 - BLACK ASPHALT PAVEMENT 50mm AC16 INTERSECTION MIX
 - ROAD BASE AND PRIME (3.0m PAST LIMIT OF PAVEMENT)
 - CONSTRUCT FULL DESIGN TO PRIMER SEAL STAGE ONLY
-
- POST WITH STREET NAME PLATES
 - CHEVRON BOARD
 - STAGE BOUNDARY
 - WATER RRP
-
- MK MOUNTABLE KERB
 - SMK SEMI-MOUNTABLE KERB
 - RFK REINFORCED FLUSH KERB
 - FK FLUSH KERB
 - BK BARRIER KERB
 - 12CR 12m KERB RAMP
- REFER STANDARD DRAWINGS FOR DETAILS



STAGE NOTES

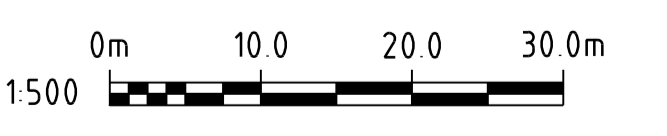
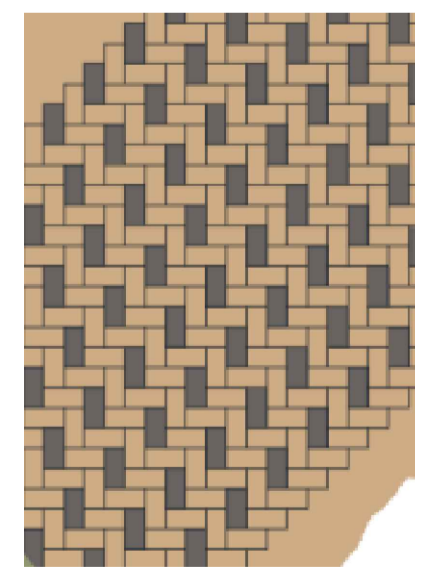
- LOCAL AUTHORITY - CITY OF KWINANA.
- PROJECT SURVEYOR - MNG
- LANDSCAPE ARCHITECT - PLAN E
- REFERENCE DRAWINGS:
SEWERAGE RETICULATION PLAN 6027-01-200/201
INTERSECTION DETAILS 6027-01-320/321
WATER RETICULATION PLAN 6027-01-700
STREETSCAPE PLAN 6027-01-330/331
- DRAINAGE MANHOLES TO BE LAID ON 1.5m BEHIND THE FACE OF KERB UNLESS NOTED OTHERWISE.
- THE CONTRACTOR TO HYDRO MULCH ALL VERGES AND LOT AREAS.
- NO HYDRO MULCH TO P.O.S.
- KERB TRANSITIONS TO ALLOW A MINIMUM 7.0m CLEARANCE FOR DRIVEWAY LOCATIONS.

STANDARD NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND REQUIREMENTS OF THE LOCAL AUTHORITIES
- THE CONTRACTOR SHALL LIAISE WITH ALL PUBLIC UTILITIES PRIOR TO COMMENCING WORK TO PHYSICALLY LOCATE ALL SERVICES WITHIN THE CONTRACT SITE
- ALL LEVELS SHALL BE LOCATED FROM ESTABLISHED BENCHMARKS AS ESTABLISHED BY THE PROJECT SURVEYOR
- ALL CONNECTIONS TO EXISTING WORK SHALL BE SMOOTH AND OF NEAT APPEARANCE
- REFER INTERSECTION DETAIL DRAWINGS FOR CORNER RADII AT INTERSECTIONS AND CUL-DE-SACS
- ALL KERBING TO BE MOUNTABLE TYPE UNLESS NOTED OTHERWISE.
- TRANSITION BETWEEN DIFFERENT KERB TYPES SHALL BE MADE OVER A LENGTH OF 2m
- WHERE POSSIBLE, STREET SIGNS TO BE STRAPPED TO STREET LIGHT
- ALL CUTS THROUGH LIMESTONE SHALL BE EXCAVATED TO A DEPTH OF 100mm BELOW SUB-GRADE LEVEL AND 200mm BELOW THE FINISHED LEVEL OF VERGES
- STORMWATER PIPES SHALL BE REINFORCED CONCRETE (CLASS 2) R.R.J. UNLESS NOTED OTHERWISE
- DRAINAGE PIPES TO BE INSTALLED IN ACCORDANCE WITH AS3725. CONTRACTOR TO CONSIDER GROUND CONDITIONS, HAUNCHING, TRENCH CONDITIONS, LOAD PARAMETERS AND COMPACTION METHODS TO ENSURE INTEGRITY OF PIPE
- MANHOLES AND SIDE ENTRY PITS SHALL BE LOCATED IN POSITIONS SHOWN IRRESPECTIVE OF THE INDICATED PIPE LENGTHS AND WHERE APPLICABLE THE PITS SHALL BE LOCATED AT THE ACTUAL LOW POINT
- MINIMUM COVER TO DRAINAGE PIPES TO BE 600mm UNLESS NOTED OTHERWISE. CLEARANCE WITH ALL OTHER SERVICES TO BE 150mm. CONTRACTOR TO ADVISE OF ANY DISCREPANCIES.
- WHERE A SEWER LINE INTERSECTS WITH A STORMWATER DRAINAGE LINE AND THE SEWER PASSES OVER THE DRAIN THEN THE SEWER SHALL HAVE A TIMBER PILE AND KEEL PROVIDED FOR THE FULL EXTENT
- THE ROADWORKS AND DRAINAGE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SEWERAGE RETICULATION PLAN(S) AND THE STANDARD DRAWING(S)
- STORMWATER ACCESS CHAMBER LIDS IN VERGES ARE TO BE SET TO MATCH VERGE CROSSFALLS AND LEVELS.
- PRAM RAMP, ROAD CROSSINGS AND MEDIANS TO HAVE GLUE, STICK AND SCREW ON TACTILE PAVERS BY PERTH TACTILE PAVERS (OR SIMILAR APPROVED). REFER TO DRAWING 6027-STD-007 FOR DETAILS
- LINE MARKING TO BE PROVIDED TO ALL LANEWAYS
- CONTRACTOR TO ENSURE ALL ROOTS OF ALL RETAINED TREES ARE PROTECTED DURING CONSTRUCTION
- FOOTPATHS TO BE 1.5m WITH 0.3m OFFSET TO ROAD RESERVE BOUNDARY OR 2.5m WITH 0.5m OFFSET. FOOTPATHS TO BE INCREASED IN WIDTH BY OFFSET WIDTH AND OFFSET REMOVED ADJACENT RETAINING WALLS.

BRICK PAVING TABLE

No	TYPE	COLOUR	PATTERN
①	BRIKMAKERS EASIPAVE 80 (220x110x60mm)	CHARCOAL	HERRINGBONE
	BRIKMAKERS EASIPAVE 80 (220x110x60mm)	CHARCOAL	HEADER COURSE
②	BRIKMAKERS EASIPAVE 80 (220x110x60mm)	SILVER	HERRINGBONE
	BRIKMAKERS EASIPAVE 80 (220x110x60mm)	SILVER	HEADER COURSE
Ⓜ	BRICK PAVING BY OTHERS		



P:\6027\Map\6027-01-300-301.dwg, 7/02/2019 10:31:15 AM, alishah, Digital Signing PDF, p3, 11, - CIV Reference

REV	DATE	DRN	CKD	APP	AMENDMENT	REV	DATE	DRN	CKD	APP	AMENDMENT
2	07.02.19	ARH	SM	A. THOMSON	TEMPORARY CARPARK ADDED	C	02.07.18	ARH	SM	A. THOMSON	UPDATED TO SUIT COUNCIL COMMENTS
1	20.12.18	ARH	SM	A. THOMSON	ENTRY ROAD PATHS UPDATED	B	16.03.18	ARH	SM	A. THOMSON	ISSUED FOR COUNCIL APPROVAL
0	07.11.18	ARH	SM	A. THOMSON	ISSUED FOR FINAL APPROVAL AND CONSTRUCTION	A	20.02.18	ARH	SM	A. THOMSON	ISSUED FOR APPROVAL
E	21.09.18	ARH	SM	A. THOMSON	TREES FOR RETENTION ADDED						
D	21.08.18	ARH	SM	A. THOMSON	DRAINAGE LAYOUT AND ROUNDABOUT LAYOUT UPDATED						

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This plan is not to be used for construction unless issued as revision 0 or higher

CW Cossill & Webley CONSULTING ENGINEERS

Mailing Address: PO Box 680, Subiaco WA 6904
Street Address: B12 (Level 2) 431 Roberts Road, Subiaco WA 6908

T (08) 9422 5800 F (08) 9422 5801 E admin@cosweb.com.au

QUBE

CLIENT: AVRIL THOMSON

DESIGNED: ARH

SCALE: 1:500

PROJECT: APSLEY - STAGE 01

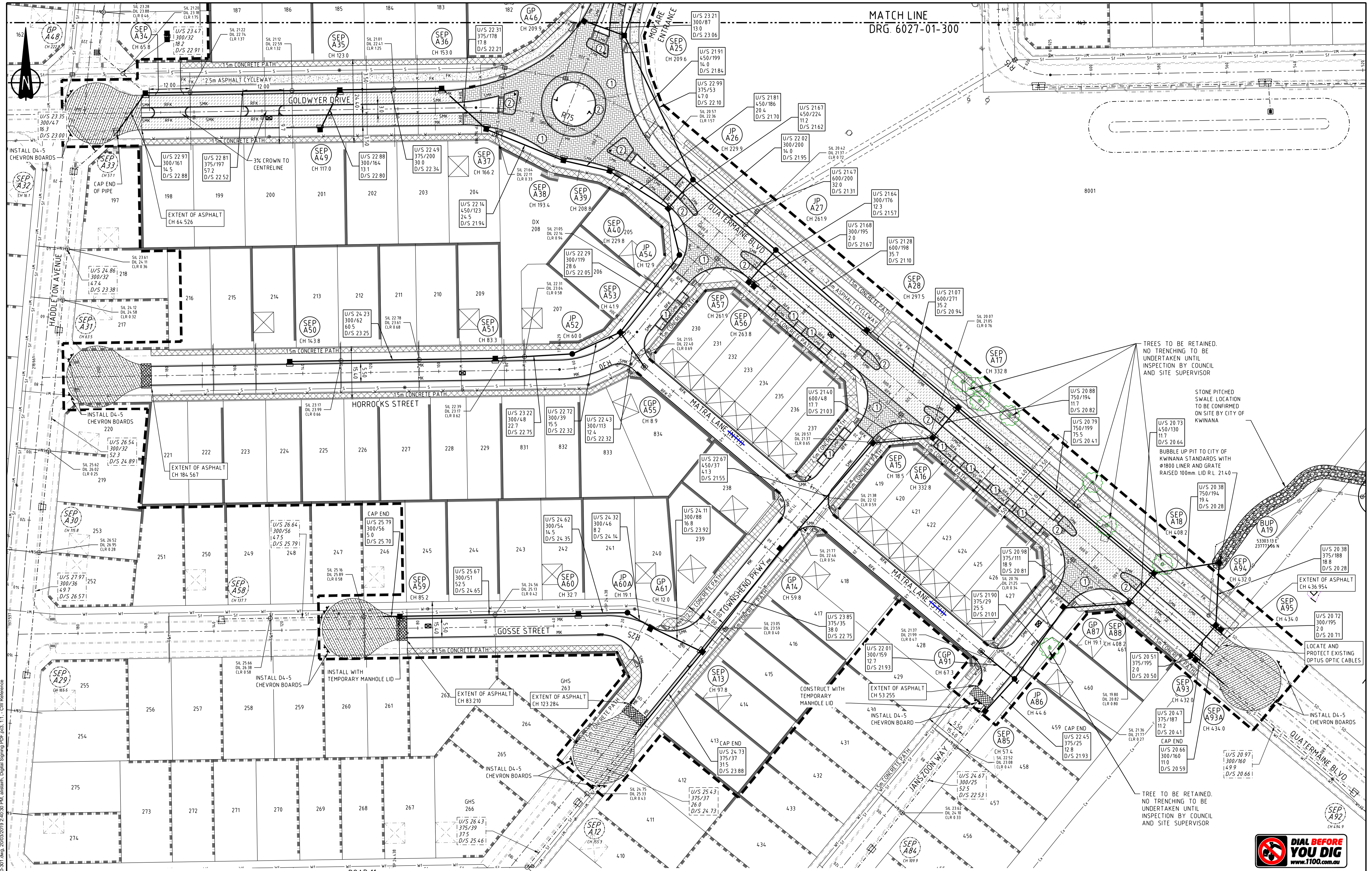
TITLE: ROADWORKS, DRAINAGE AND FOOTPATHS SHEET 1 OF 2

WAPC No: 155567

DRAWING No: 6027-01-300

REVISION: 2

ORIGINAL SIZE A1



MATCH LINE
DRG. 6027-01-300

TREES TO BE RETAINED.
NO TRENCHING TO BE
UNDERTAKEN UNTIL
INSPECTION BY COUNCIL
AND SITE SUPERVISOR

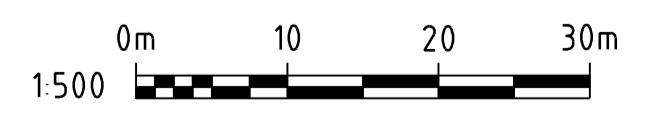
STONE PITCHED
SWALE LOCATION
TO BE CONFIRMED
ON SITE BY CITY OF
KWINANA

BUBBLE UP PIT TO CITY OF
KWINANA STANDARDS WITH
Ø1800 LINER AND GRATE
RAISED 100mm L/D R/L 214.0

LOCATE AND
PROTECT EXISTING
OPTUS OPTIC CABLES

TREE TO BE RETAINED.
NO TRENCHING TO BE
UNDERTAKEN UNTIL
INSPECTION BY COUNCIL
AND SITE SUPERVISOR

REFER DRG. 6027-01-300 FOR
NOTES AND LEGEND



P:6027\Map\6027-01-300-301.dwg, 20/03/2019 2:40:30 PM, alishah, Digital Signing PDF, 3, 11 - CV Reference

REV	DATE	DRN	CKD	APP	AMENDMENT	REV	DATE	DRN	CKD	APP	AMENDMENT
6	20 03 19	ARH	SM	A. THOMSON	ALTERNATE DRAINAGE REMOVED, SWALE LAYOUT UPDATED	1	06 12 18	ARH	SM	A. THOMSON	ALTERNATE DRAINAGE LAYOUT ADDED
5	25 02 19	ARH	SM	A. THOMSON	MISSING DRAINAGE DATA ADDED	0	07 11 18	ARH	SM	A. THOMSON	ISSUED FOR FINAL APPROVAL AND CONSTRUCTION
4	18 02 19	ARH	SM	A. THOMSON	SEWER CROSSING FOR LOT 238 UPDATED	E	21 09 18	ARH	SM	A. THOMSON	TREES FOR RETENTION ADDED
3	07 02 19	ARH	SM	A. THOMSON	TEMPORARY CARPARK AND CROSSING ADDED	D	20 08 18	ARH	SM	A. THOMSON	DRAINAGE LAYOUT AND ROUNDABOUT LAYOUT UPDATED
2	30 01 19	ARH	SM	A. THOMSON	GOSSE / TOWNSHEND INTERSECTION UPDATED	C	02 07 18	ARH	SM	A. THOMSON	UPDATED TO SUIT COUNCIL COMMENTS

REFER DRG. 6027-01-300 FOR NOTES AND LEGEND		PROJECT APSLEY - STAGE 01	
REV DATE DRN CKD APP AMENDMENT		TITLE ROADWORKS, DRAINAGE AND FOOTPATHS SHEET 2 OF 2	
REV DATE DRN CKD APP AMENDMENT		SCALE 1:500	
REV DATE DRN CKD APP AMENDMENT		WAPC No. 155567	
REV DATE DRN CKD APP AMENDMENT		DRAWING No. 6027-01-301	
REV DATE DRN CKD APP AMENDMENT		REVISION 6	

ISSUED FOR APPROVAL CW Cosill & Webley CONSULTING ENGINEERS Mailing Address PO Box 680 Subiaco WA 6904 Street Address B12 (Level 2) 431 Roberts Road Subiaco WA 6008 T (08) 9422 5800 F (08) 9422 5801 E admin@cosweb.com.au		CLIENT QUBE AVRIL THOMSON DESIGNED ARH SCALE 1:500	
--	--	--	--

ORIGINAL SIZE A1


Appendix 6
Emergency access way plan

VERSION	AMENDMENT	AUTHORISED BY	DATE

DRAFT
ALL AREAS AND DIMENSIONS
ARE SUBJECT TO FINAL SURVEY
AND WAPC APPROVAL

HELD BY LANDGATE IN DIGITAL FORMAT ONLY

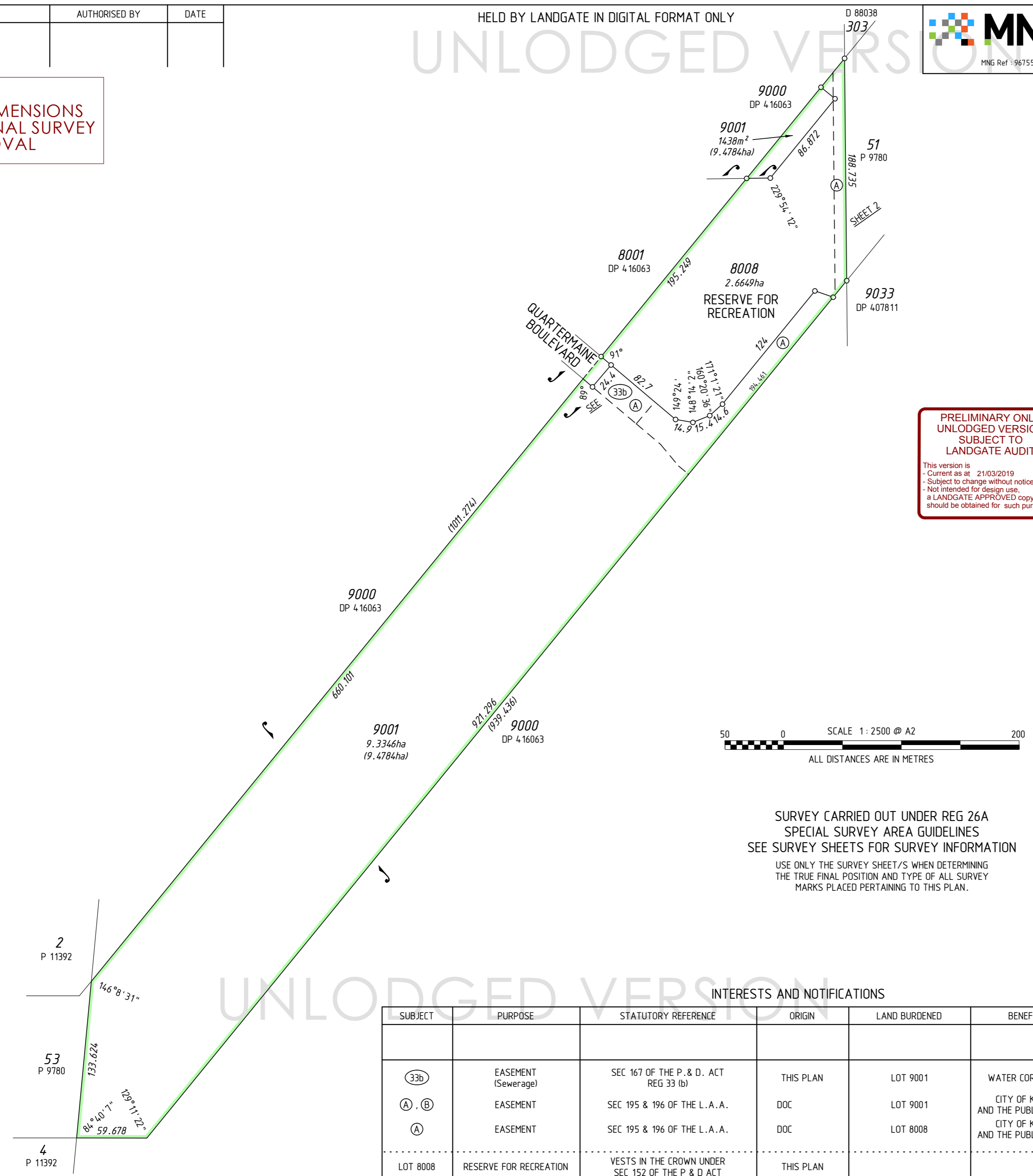
UNLODGED VERSION



MNG
MNG Ref : 96755dp-056a - Lot 8008 - DP4.16761.CSD

MC MULLEN NOLAN GROUP
PO Box 3526, Success W.A. 6964
Tel: (08) 6436 1599
Fax: (08) 6436 1500
Email: info@mngsurvey.com.au

TYPE	FREEHOLD	S.S.A.	YES
PURPOSE	SUBDIVISION		
PLAN OF	LOTS 8008, 9001, ROAD AND EASEMENT		
FORMER TENURE	LOT 52 ON P 9780 C.T. 2929-542		
LOCAL AUTHORITY	CITY OF KWINANA		
LOCALITY	MANDOGOLUP		
D.O.P.L.H. FILE			
FIELD RECORD	142336		

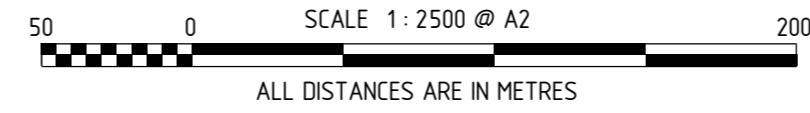


**PRELIMINARY ONLY
UNLODGED VERSION
SUBJECT TO
LANDGATE AUDIT**

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- Not intended for design use.
a LANDGATE APPROVED copy
should be obtained for such purposes.

SURVEY CARRIED OUT UNDER REG 26A
SPECIAL SURVEY AREA GUIDELINES
SEE SURVEY SHEETS FOR SURVEY INFORMATION

USE ONLY THE SURVEY SHEET/S WHEN DETERMINING
THE TRUE FINAL POSITION AND TYPE OF ALL SURVEY
MARKS PLACED PERTAINING TO THIS PLAN.



UNLODGED VERSION

UNLODGED VERSION

INTERESTS AND NOTIFICATIONS

SUBJECT	PURPOSE	STATUTORY REFERENCE	ORIGIN	LAND BURDENED	BENEFIT TO	COMMENTS
(33b)	EASEMENT (Sewerage)	SEC 167 OF THE P. & D. ACT REG 33 (b)	THIS PLAN	LOT 9001	WATER CORPORATION	
(A), (B)	EASEMENT	SEC 195 & 196 OF THE L.A.A.	DOC	LOT 9001	CITY OF KWINANA AND THE PUBLIC AT LARGE	(Public Access)
(A)	EASEMENT	SEC 195 & 196 OF THE L.A.A.	DOC	LOT 8008	CITY OF KWINANA AND THE PUBLIC AT LARGE	(Public Access)
LOT 8008	RESERVE FOR RECREATION	VESTS IN THE CROWN UNDER SEC 152 OF THE P & D ACT	THIS PLAN			

SURVEYOR'S CERTIFICATE - REG 54
I, Nigel J. SIMPSON
hereby certify that this plan is accurate and is a correct
representation of the -
(a) *survey, and/or
(b) *calculations from measurements recorded in the field records,
[* delete if inapplicable]
undertaken for the purposes of this plan and that it
complies with the relevant written law(s) in relation to
which it is lodged.

LICENSED SURVEYOR	DATE	
LOGGED		
DATE	FEE PAID	ASSESS No.

I.S.C.	EXAMINED	DATE
--------	----------	------

WESTERN AUSTRALIAN PLANNING COMMISSION
FILE 155567

Delegated under S. 16 P&D Act 2005

IN ORDER FOR DEALINGS

SUBJECT TO	DATE
FOR INSPECTOR OF PLANS AND SURVEYS	DATE

APPROVED REG26A (4)

INSPECTOR OF PLANS AND SURVEYS (S. 18 Licensed Surveyors Act 1909)



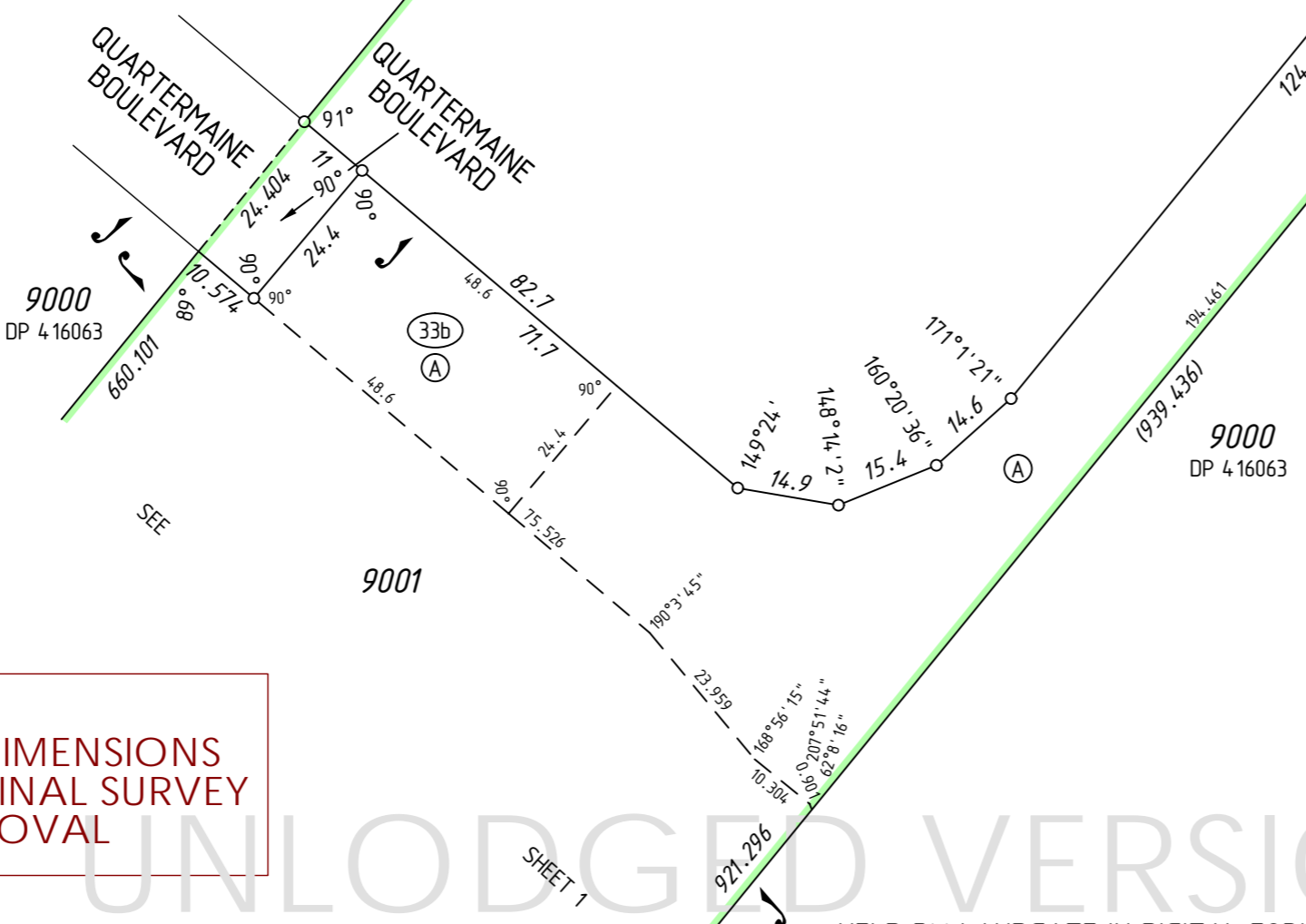
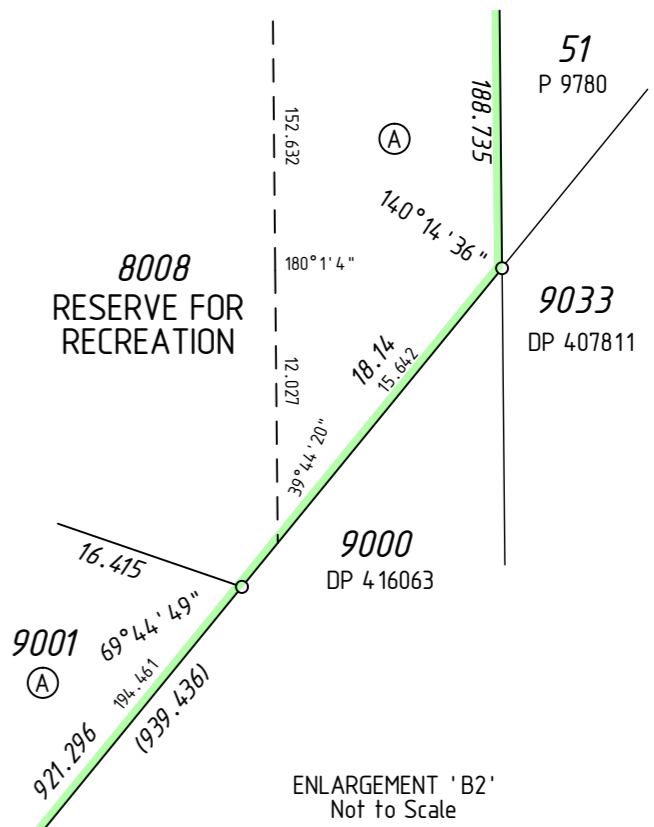
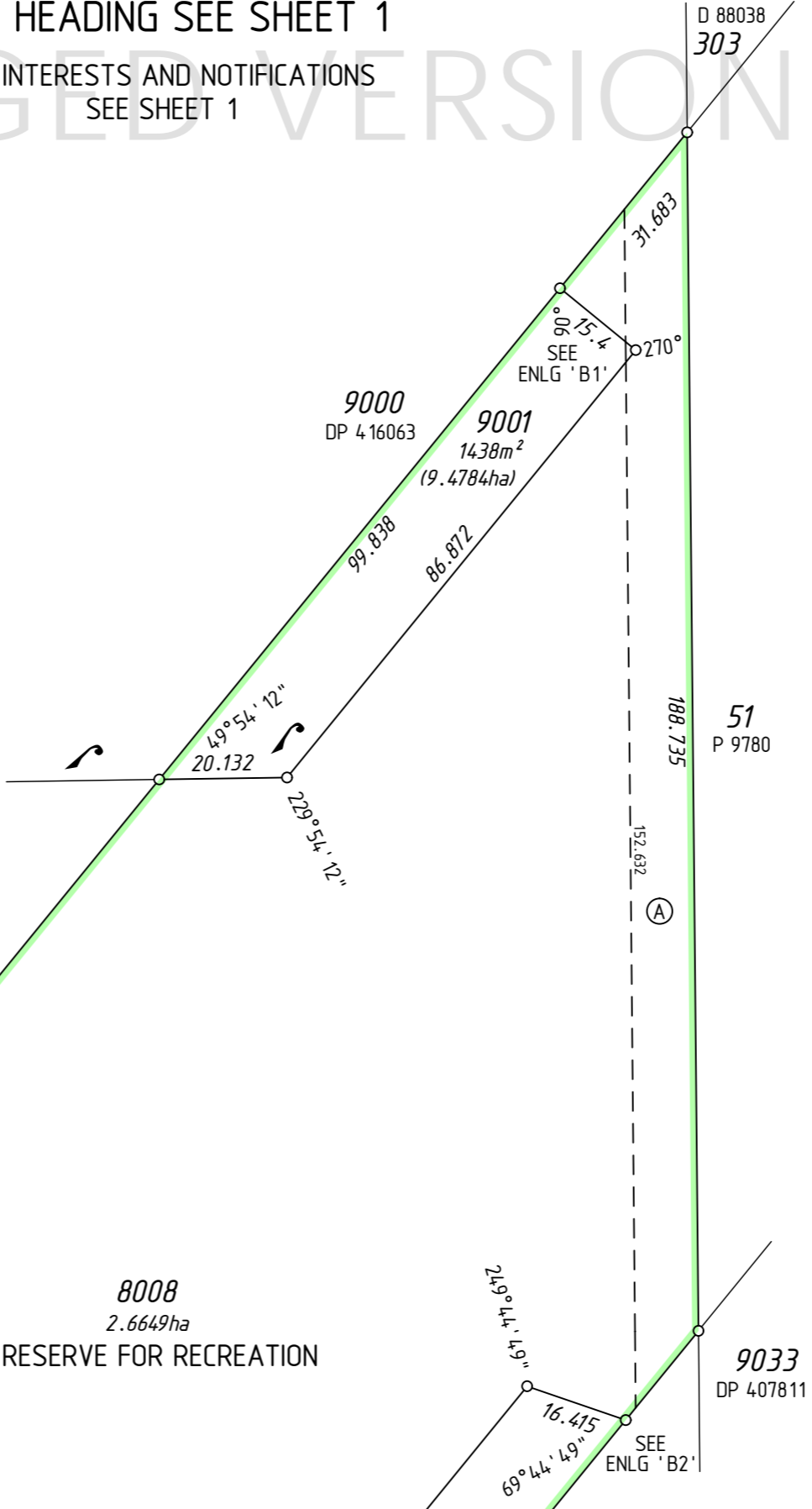
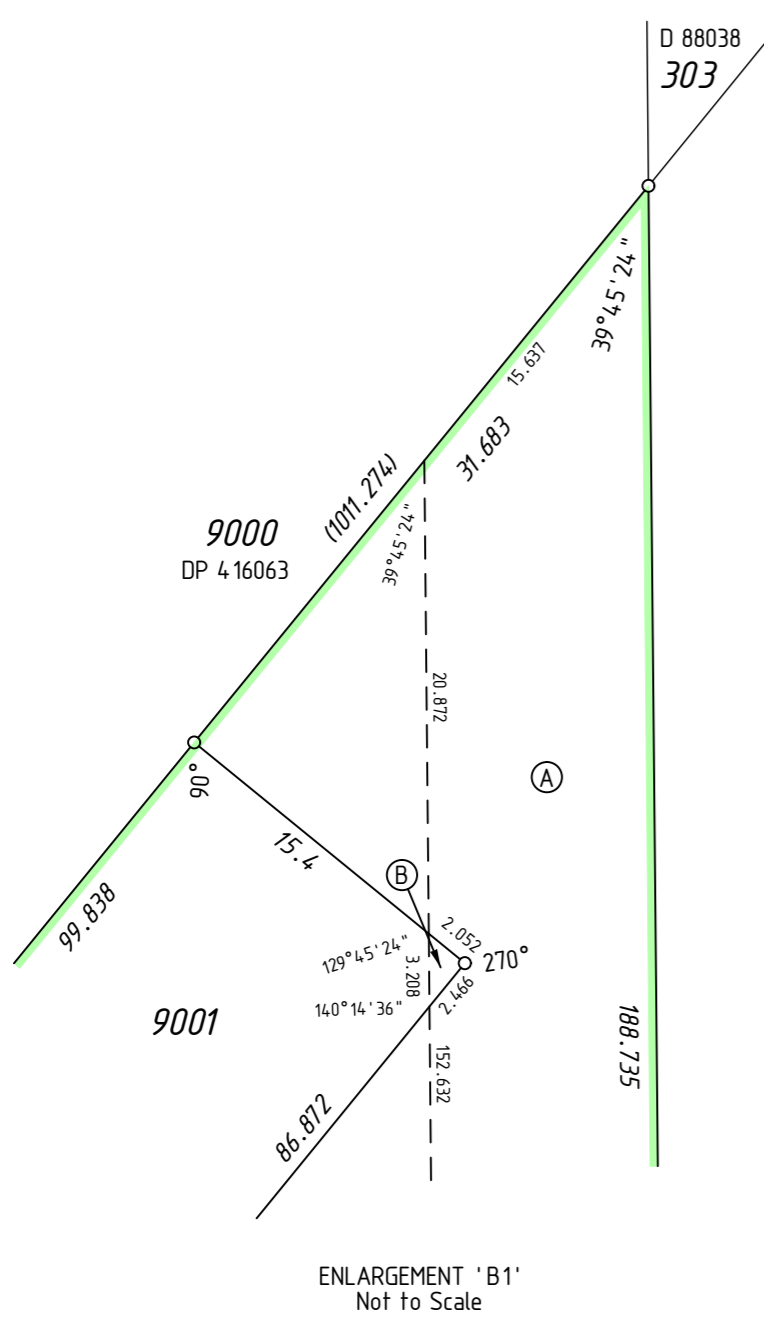
DEPOSITED PLAN
4 16761
SHEET 01 OF 02 SHEETS
(PLUS SURVEY SHEET(S))
VERSION 1

SEE SHEET XX FOR AMENDMENTS TABLE

UNLODGED VERSION
FOR HEADING SEE SHEET 1
FOR INTERESTS AND NOTIFICATIONS SEE SHEET 1

UNLODGED VERSION

UNLODGED VERSION



SURVEY CARRIED OUT UNDER REG 26A
SPECIAL SURVEY AREA GUIDELINES
SEE SURVEY SHEETS FOR SURVEY INFORMATION
USE ONLY THE SURVEY SHEET/S WHEN DETERMINING
THE TRUE FINAL POSITION AND TYPE OF ALL SURVEY
MARKS PLACED PERTAINING TO THIS PLAN.


MNG Ref : 96755dp-056a - Lot 8008 - DP4 16761.CSD

LICENSED SURVEYOR _____ DATE _____


GOVERNMENT OF WESTERN AUSTRALIA

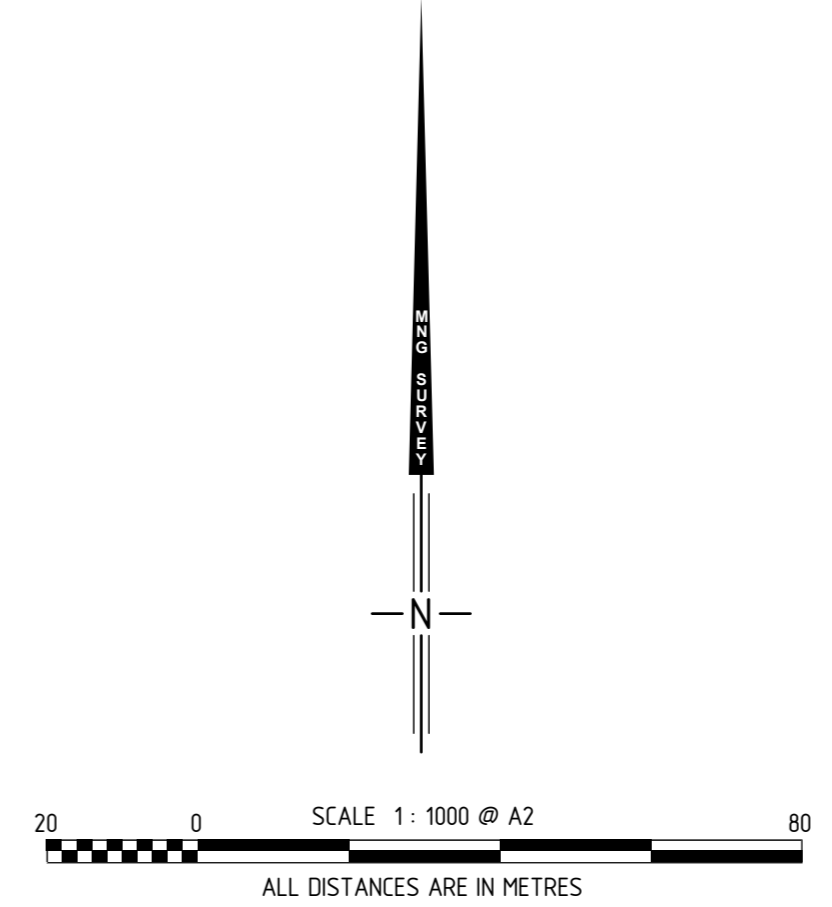

Landgate

DEPOSITED PLAN
4 16761
SHEET 02 OF 02 SHEETS
VERSION 1

PRELIMINARY ONLY
UNLODGED VERSION
SUBJECT TO
LANDGATE AUDIT

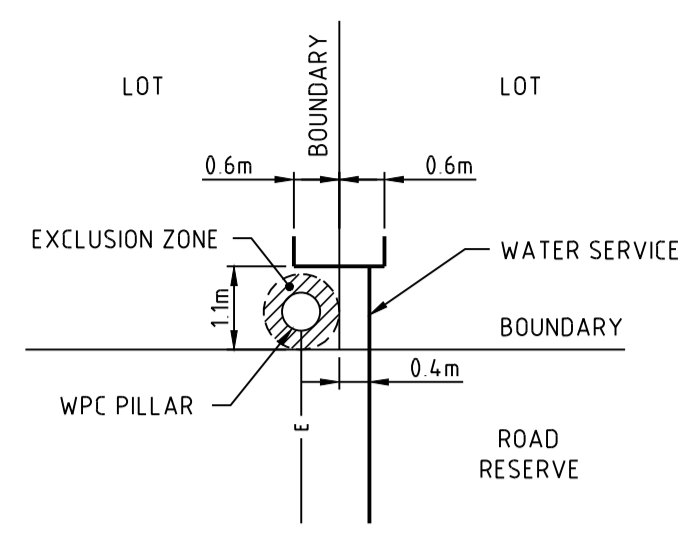
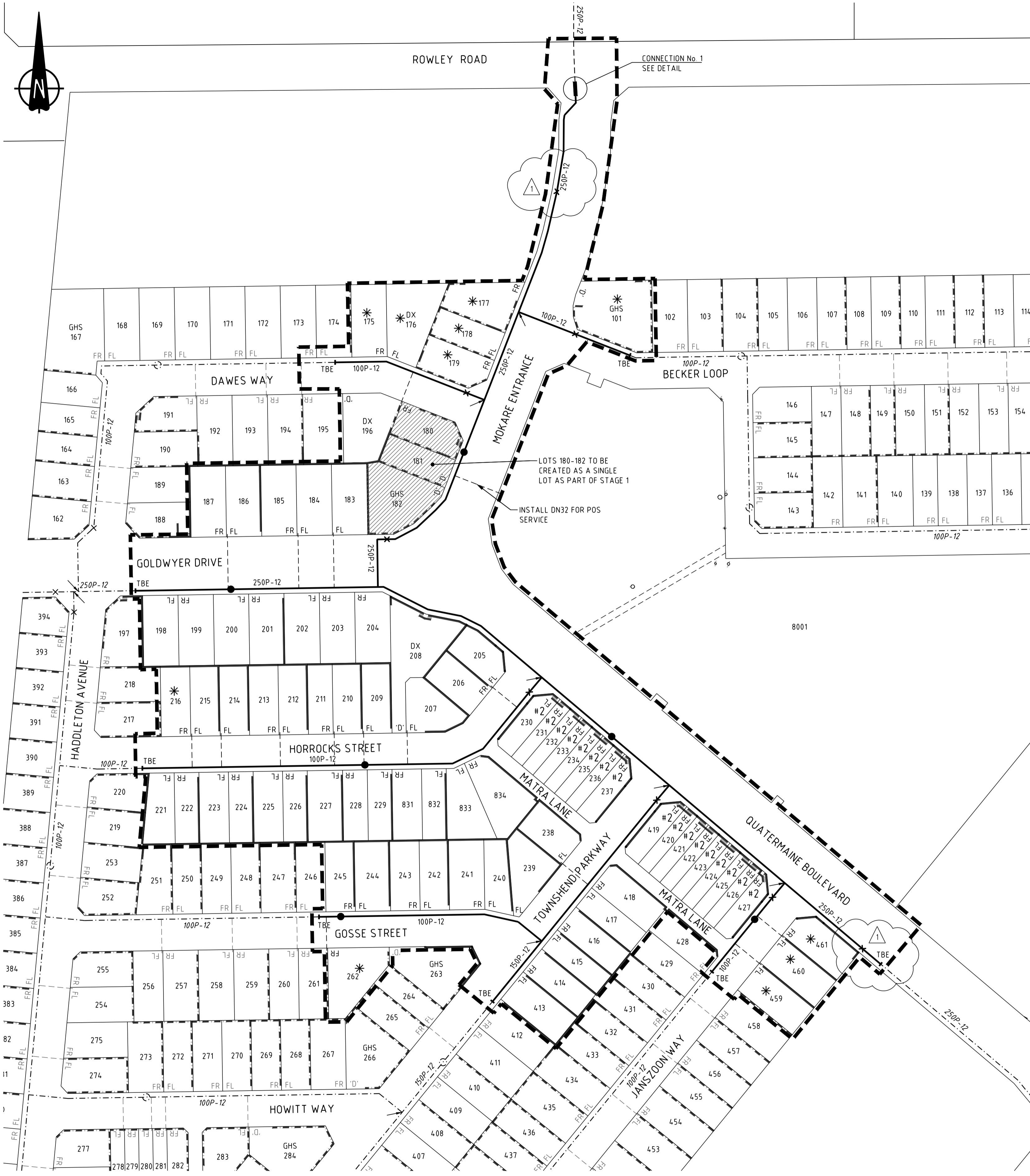
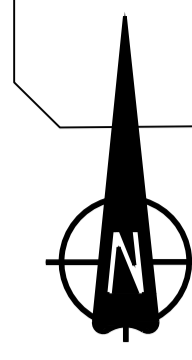
This version is
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should be obtained for such purposes.

DRAFT
ALL AREAS AND DIMENSIONS
ARE SUBJECT TO FINAL SURVEY
AND WAPC APPROVAL

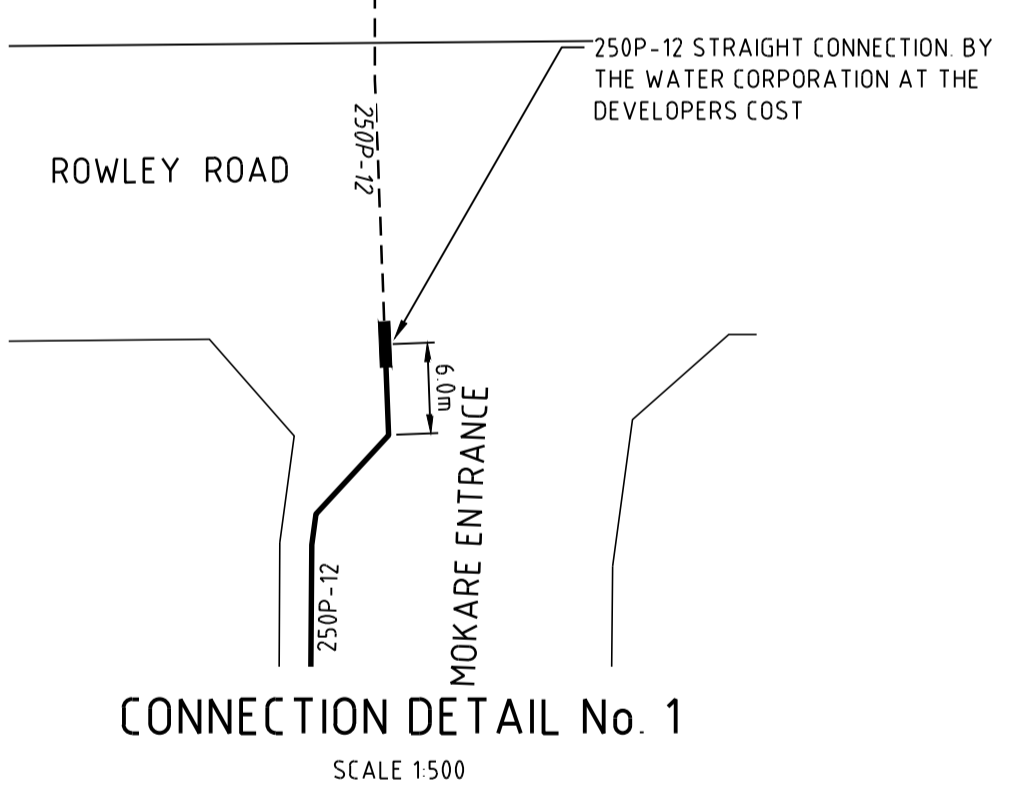


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Appendix 7
Water reticulation plan



TYPICAL WATER SERVICE
ADJACENT TO WPC PILLAR
N.T.S.



CONNECTION DETAIL No. 1
SCALE 1:500



NOTICE TO CONTRACTOR
IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE THE NATURE AND LOCATION OF ALL SERVICES WHICH MAY BE ENCOUNTERED AND TO CONSULT WITH THE RELEVANT SERVICE AUTHORITIES PRIOR TO COMMENCEMENT OF EXCAVATIONS. FAILURE TO DO SO OR TO TAKE DUE CARE SHALL NOT LIMIT THE CONTRACTOR'S LIABILITY FOR REPAIR OF ALL SERVICES DAMAGED BY HIM DURING CONSTRUCTION WORKS THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY FOR THE PROTECTION OF ALL EXISTING SERVICES.

CONTRACTOR'S RESPONSIBILITY

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CO-ORDINATE THE INSTALLATION OF ALL SERVICES WITHIN THE SUBDIVISION. THE CONSULTANT SHOULD ENSURE THAT THERE IS NO CONFLICT BETWEEN THE POSITIONING OF FULLY PRE-LAID WATER SERVICES WITHIN THE LOT AND WESTERN POWER UNDERGROUND POWER CONNECTION PILLARS. THE SUPERINTENDENT SHOULD BE CONSULTED IF AMENDMENTS TO FULLY PRE-LAID SERVICES ARE REQUIRED.

SERVICES

- ALL WATER MAINS SHALL BE INSTALLED ON 2.1m ALIGNMENT EXCEPT AS OTHERWISE AGREED.
- FULLY PRE-LAID WATER SERVICES TO BE INSTALLED IN ACCORDANCE WITH WATER CORPORATION DESIGN STANDARD DS63 VERSION 3 REVISION 14, SEPTEMBER 2018 AND READ IN CONJUNCTION WITH WATER CORPORATION STANDARD ARRANGEMENT DRG No.'s BD 62-8-15 AND BD62-8-24.
- WATER SERVICE LOCATIONS SHALL BE IN ACCORDANCE WITH THE GUIDELINES FOR POSITIONING CONTAINED IN DRG. No. BD62-8-14.
- WHERE POSSIBLE LOTS ARE ARRANGED IN PAIRS WITH A DUAL SERVICE PIPE ENTERING THE RIGHT HAND SIDE OF THE PAIR OF LOTS AND SPLITTING LEFT AND RIGHT TO SUPPLY EACH PAIR OF METERS.
- WHERE SHORT AND LONG SINGLE SERVICES ARE INDICATED THE SERVICE PIPE AND METER SHOULD, IF POSSIBLE, BE LOCATED AT THE LEFT HAND SIDE BOUNDARY OF LOTS.
- FOR A STRAIGHT ROAD RESERVE, SERVICE PIPES SHALL BE ALIGNED AT RIGHT ANGLES TO FRONT BOUNDARIES, RATHER THAN TO THE SUPPLY WATER MAINS.
- WHERE THERE IS A BEND IN THE ROAD RESERVE AT THE SIDE BOUNDARY, THE SERVICE PIPE SHALL BE POSITIONED PARALLEL TO THE LINE BISECTING THE ANGLE.
- FL AND FR (FULLY PRELAID LEFT & RIGHT) INDICATES THE SIDE OF THE LOT WHEN VIEWED FROM THE ROAD FRONTAGE WHICH IS SELECTED FOR ITS METER LOCATION.
- INDICATES LOCATION OF SINGLE AND DUAL LONG SERVICES.
- NUMBER OF SERVICES:

PRELAID SHORT DUAL	25
PRELAID LONG DUAL	7
PRELAID SHORT SINGLE	5
PRELAID LONG SINGLE	8
TOTAL	45
- TOTAL NUMBER OF LOTS SERVED: 77
TOTAL NUMBER OF DEFERRED SERVICES: 5
- FULLY PRE-LAID WATER SERVICES INSTALLED IN STAIR LANDINGS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD WATER CORPORATION DRG. No. BD62-2-9.

EXTENSION

CONTRACTOR TO LAY - 44.90m OF 100 P-12
118.6m OF 150 P-12
612.8m OF 250 P-12

CONNECTIONS

ONE CONNECTION (1) BY WATER CORPORATION

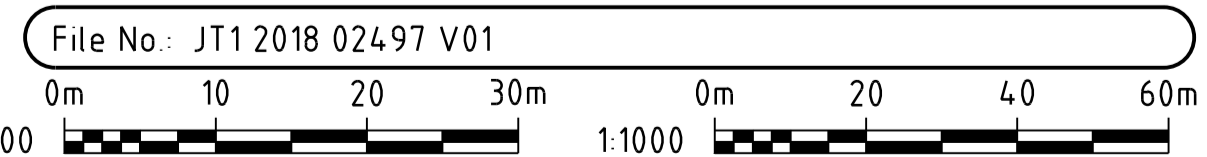
LEGEND

- EXISTING MAINS
- o- EXISTING HYDRANT
- PROPOSED MAINS
- FUTURE MAINS
- PROPOSED VALVES (V)
- PROPOSED HYDRANT (H)
- CHANGE IN PIPE SIZE
- PROPOSED RETAINING WALL
- RETICULATION BOUNDARY
- 'D' DEFERRED SERVICE
- FP FLUSHING POINT (.)
- TBE TEMPORARY BLANK END AND FLUSHING POINT (B)
- SERVICE EASEMENT
- CONNECTION BY WATER CORPORATION
- * SERVICE LAID IN THIS STAGE FOR RELEASE IN FUTURE STAGE
- ⊕ SERVICE LAID IN PREVIOUS STAGE TO BE RELEASED IN THIS STAGE
- #1 SERVICE UNDER RETAINING WALL
- #2 SERVICE IN PIT AT BASE OF STAIRS

MSWA RETICULATION SUBMISSION

This plan is accepted as being in accordance with the endorsed Concept Plan: MW06-100-001-01A
Compliance with relevant design standards and manuals remains the responsibility of the Design Engineer.
No works are to commence on site until start-up meeting requirements have been made with the relevant Asset Inspector. Refer to the Developers' Manual for contact details.

Received Land Servicing
MV87-103-001-01A



P:\6027\Map\6027-01-700.dwg, 18/02/2019 8:45:52 AM, alessiah, Digital Spring PDF, pgs. 1,1, - CW Reference

REV	DATE	DRN	CKD	APP	AMENDMENT	REV	DATE	DRN	CKD	APP	AMENDMENT
1	18/02/19	ARH	SM	A. THOMSON	TWO VALVES ADDED						
0	05/12/18	ARH	SM	A. THOMSON	ISSUED FOR WATER CORPORATION APPROVAL AND CONSTRUCTION						
C	05/11/18	ARH	SM	A. THOMSON	UPDATED TO SUIT COUNCIL COMMENTS						
B	02/07/18	ARH	SM	A. THOMSON	LOT LAYOUT UPDATED						
A	19/02/18	ARH	SM	A. THOMSON	ISSUED FOR WATER CORPORATION APPROVAL						

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