Town of Gawler Council Assessment Panel

ATTACHMENTS UNDER SEPARATE COVER Wednesday 30 January 2019

Item Page No 490/594/2018 5.1 **Development Application:** 3 Applicant: MCDONALDS AUSTRALIA LIMITED Address: 40-42 Adelaide Road GAWLER SOUTH 5118 **Nature of Development:** Removal of Condition 3 of Development Authorisation 490/634/934 comprising of an Extension of Trading Hours (to 24/7 facility). Attachment 1 -**Application Documentation** 5 490/10/2018 5.2 **Development Application:** 29 QUICKDRAW DRAFTING Applicant: 39 Theen Avenue WILLASTON 5118 Address: Construction of 5 warehouse buildings **Nature of Development:** (industrial use), signage, onsite car parking, landscaping and combined fence and retaining walls exceeding 2.1m Application documentation and plans 31 Attachment 1 -490/219/2018 5.3 **Development Application:** 73 **BLEEZE NEALE & ASSOCIATES** Applicant: 17 Cockshell Drive GAWLER EAST 5118 Address: Land Division - 1 into 2 Allotments **Nature of Development:** 75 Attachment 1 - Proposed Plan of Division Attachment 2 - Planning Statement 76 Attachment 3 -Superseded/original Plan of Division 80 490/341/2018 5.4 **Development Application:** 81 R G CALLOW Applicant: 6 Duldig Avenue GAWLER EAST 5118 Address: Land Division by Torrens Title (1 into 2) **Nature of Development:** Attachment 1 - Application plans and documentation 83 Attachment 2 - Plan showing location of Significant tree 86 Attachment 3 - Indicative community title plan 87

Town of Gawler Council Assessment Panel

ATTACHMENTS UNDER SEPARATE COVER Wednesday 30 January 2019

Page No Item 490/594/2018 5.1 **Development Application:** 3 MCDONALDS AUSTRALIA LIMITED Applicant: 40-42 Adelaide Road GAWLER SOUTH 5118 Address: Removal of Condition 3 of Development **Nature of Development:** Authorisation 490/634/934 comprising of an Extension of Trading Hours (to 24/7 facility). **Application Documentation** Attachment 1 -5

ATTACHMENT 1



12th November 2018

Ref:7409DAletter

Town of Gawler PO Box 130, Gawler SA 5118

Attention Mr. Scott Twine

Dear Scott

Access Planning (SA) Pty Ltd ABN 57 089 702 241

235 Henley Beach Road Torrensville SA 5031

Telephone 08 8130 7222 Facsimile 08 8130 7299 admin@accessplanning.com.au

www.accessplanning.com.au

Re: MCDONALD'S AUSTRALIA, EXTENSION OF TRADING HOURS TO AN EXISTING RESTAURANT, 40-42 ADELAIDE ROAD, GAWLER SOUTH

Please find herwith a completed application form, relevant Certificates of Title and an acoustic assessment for the above development.

The following is a description of the proposed development and an assessment of the development against the relevant provisions of the Development Plan.

Subject land and locality

The site is located at 40-42 Adelaide Road, Gawler South and comprises an irregular shaped holding of three titles excluding a separate title for land at located at 38A Adelaide Road.



Figure 1: Subject land and locality

Source: Property Location BrowsePage 5 of 87



The land is developed with a McDonald's restaurant with associated Drive Thru, car parking and landscaping. The restaurant has occupied the land since 1994 and is positioned to the southwestern corner of the land fronting Adelaide Road.

Vehicle access to the site is via an entry/exit crossover to Adelaide Road at the north-western end of the land, with separate entry and exit crossovers either side of the restaurant building towards the south-western Adelaide Road end of the frontage.

A dual Drive Thru lane wraps around the south-eastern and south-western perimeter of the land exiting directly to Adelaide Road.

An established landscaping buffer surrounds the south-eastern and south-western boundaries to just over 2.4 metres in height and a boundary fence of 2.0m is located on each side and the rear boundary.

George Lane at the rear of the site is a narrow, sealed, no through laneway which provides limited vehicle access to some properties fronting both and Fourth Street. The lane is closed in line with the southern boundary of the subject land.



Figure 2: Rear boundary of the subject land to right of photograph from George Lane showing heritage brick wall at the rear of houses fronting Fourth Street.

Source: Google Streetview

There is no access to the subject land from George Lane.





Figure 3: Dwelling located at the southern end of George Lane just before the road closure with bollards. Note the window shutters and lack of windows facing the McDonald's site. Source: Google Streetview

The locality comprises 2 relatively distinct parts in accord with the zoning, with development along Adelaide Road primarily comprising commercial and retail developments as provided for in the Town Centre Historic (Conservation) Zone and residential development in the adjoining Residential Historic (Conservation).

Adelaide Road is a primary arterial road and handles in excess of 20400 annual average daily traffic movements (DPTI data 14 September 2015)

ZONING

The subject site and land generally fronting Adelaide Road is zoned Town Centre Historic (Conservation) Zone. The land abutting to either side of the subject site to Adelaide Road are also zoned Town Centre Historic (Conservation).

To the rear (east) the land is zoned Residential Historic (Conservation), Gawler South Residential Historic (Conservation) Policy Area.





Figure 4: The subject land showing zoning

Source: Property Location Browser

Relevant Development Plan provisions seek the Town Centre to be a "focus for retail, business, community and entertainment activities serving the local and broader community and visitors to Gawler."

Other Objectives for this zone centre largely upon conserving, maintaining and protecting the built form character of the existing buildings and guiding new development appropriately.

The proposed development

Development Approval 490/634/1994 permitted the McDonald's restaurant to operate between the hours of 6.00am and midnight Sunday to Wednesday and through to 1.00am (the following day) Thursday through Saturday.

McDonald's now seeks seek the ability to operate the restaurant 24 hours, 7 days.

Development Plan assessment

The principal issue arising from the application is the interface with adjoining sensitive development which is essentially the residential development at the rear of the site.

It is not unusual for fast food restaurants to have a close relationship with adjoining residential land uses as a consequence of their location, often in narrow Centre or Commercial zones along arterial roads.

It is increasingly more common for some commercial developments to operate over extended trading hours, reflecting emerging work patterns and entertainment behaviour. Fast food restaurants and service stations are two that come immediately to mind.



The Development Plan deals extensively with the relationship between developments and particularly is respect to those provisions below.

Interface Between Land Uses Objectives

- 42: Development located and designed to minimise adverse impact and conflict between land uses.
- 43: Protect community health and amenity from adverse impacts of development.
- 44: Protect desired land uses from the encroachment of incompatible development.

Principles

- 107 Development should not detrimentally affect the amenity of the locality or cause unreasonable interference through any of the following:
 - (a) the emission of effluent, odour, smoke, fumes, dust or other airborne pollutants;
 - (b) noise;
 - (e) light spill;
 - (f) glare;
 - (g) hours of operation;
 - (h) traffic impacts.
- 108 Development should be sited and designed to minimise negative impacts on existing and potential future land uses desired in the locality.
- 110 Residential development adjacent to non-residential zones and land uses should be located, designed and/or sited to protect residents from potential adverse impacts from non-residential activities.
- 111 Sensitive uses likely to conflict with the continuation of lawfully existing developments and land uses desired for the zone should be designed to minimise negative impacts.
- 112 Non-residential development on land abutting a residential zone should be designed to minimise noise impacts to achieve adequate levels of compatibility between existing and proposed uses.
- 113 Development that emits noise (other than music noise) should include noise attenuation measures that achieve the relevant Environment Protection (Noise) Policy criteria when assessed at the nearest existing noise sensitive premises.

It is important to bear in mind the long-held precept that development on the edge of zone cannot expect to have the same level of amenity as development in the heart of a zone.

That said, the existing use established by the McDonald's restaurant has given considerable regard to maintaining an appropriate relationship with residential development to its rear, and in the 17 years it has been operating the franchisee is not aware of any noise complaints that have been made in relation to the development, notwithstanding its extended evening and night time operations.

Matters relevant to the interface with the adjoining Residential zone include;

- No access to the site from George Lane;
- Extensive landscaping around the perimeter of the site;
- Lighting shielded and located to avoid overspill;



- Video observation of public areas;
- Continual upgrading of plant and equipment to make sure it is operating efficiently and with minimal noise. In fact, the recent replacement of an air-conditioned compressor has resulted in substantially lower noise, simply because the unit is new, and improved technology results in quieter, more efficient operation;
- A very high level of site, locality and equipment maintenance, and
- High level of staff training to manage any issues that might arise.

It should be noted that most of the plant, and in particular compressors for the freezers and fridges on site now operate over 24/7 in any event.

In respect to the proposed extension of hours the land is fortuitously located in that it is separated from adjoining sensitive land uses by George Lane, that 2 of the three closest buildings are located behind a high stone wall that shields them from most, if not all impacts from the proposed development and that the third of the closest dwellings is already provided with window shutters that will block out most of the impacts arising from the extended trading hours.

In order to assess the noise impacts arising from the extended trading hours, McDonald's have engaged the services of Sonus Acoustic Engineers. Their assessment concludes that noise emissions resulting from extended trading hours will be no greater (in the worst case) than 49 dB(A), achieving the 50 dB(A) night-time goal noise levels of the Environment Protection (Noise) Policy thus satisfying the provisions of principle 113 above. The Sonus report relies on noise readings taken at the site in 2008. As advised above, improved and replacement plant since then has resulted in noise from this source actually being lower than in 2008.

It is also germane to note that the Development Plan does not expect the treatment of interface issues to be one-sided, and this perhaps acknowledges the point I made earlier about interface impacts generally. Principle 108 and 110 above, seek that both the receiving and source developments in the locality be designed and/or sited to protect uses from potential adverse impacts arising from the interface relationship.

Crime Prevention

Objectives

20: A safe, secure, crime resistant environment where land uses are integrated and designed to facilitate community surveillance.

Principles

- 42 Development should be designed to maximise surveillance of public spaces through the incorporation of clear lines of sight, appropriate lighting and the use of visible permeable barriers wherever practicable.
- 43 Buildings should be designed to overlook public and communal streets and public open space to allow casual surveillance.
- 44 Development should provide a robust environment that is resistant to vandalism and graffiti.
- 45 Development should provide lighting in frequently used public spaces including those:
 - (a) along dedicated cyclist and pedestrian pathways, laneways and access routes
 - (b) around public facilities such as toilets, telephones, bus stops, seating, litter bins, automatic teller machines, taxi ranks and car parks.



- 46 Development, including car park facilities should incorporate signage and lighting that indicate the entrances and pathways to, from and within sites.
- 47 Landscaping should be used to assist in discouraging crime by:
 - (a) screen planting areas susceptible to vandalism
 - (b) planting trees or ground covers, rather than shrubs, alongside footpaths
 - (c) planting vegetation other than ground covers a minimum distance of 2 metres from footpaths to reduce concealment opportunities.

Site, staff and customer safety are paramount to McDonald's who works closely with the police to ensure that site security is maintained at the highest level and that the site design incorporates a range of techniques to achieve this goal, including:

- lighting throughout the site including within the car parking area, entrance and generally around the building;
- clear staff/public surveillance of the car park area from within the building;
- video cctv surveillance to maximise safety for McDonald's employees and customers;
- internal site landscaping with groundcovers and feature trees to maintain appropriate lines
 of sight, thus maximising surveillance into the site from publicly accessible areas such as
 Adelaide Road;
- staff training to cope with emergency situations.

Having staff on site 24/7 itself will enhance site security.

It is in McDonald's best interest to maintain a safe environment at all times for both customers and employees of the business.

Anti-social behaviour is not common but occurs from time to time and cannot be accounted for by normal acoustic treatments or security measures, although it is clearly discouraged by the security measures in place on site.

This issue was considered by a full bench of the ERD Court in the matter of Reichelt & Ors v City of Charles Sturt & Anor [2016] SAERDC 38 (17 November 2016), in which the Court said;

"The occurrence of anti-social, even criminal, behaviour is an unfortunate fact of life to be encountered at a broad range of shopping, commercial and entertainment facilities. If development approvals for such facilities were refused in order to ensure that detrimental impacts on the amenity of nearby residents were avoided altogether and in every case, there would be very few such facilities ever approved.

There is no evidence that the operations of this type of facility or of this particular operator have resulted in any unusual level of anti-social behaviour. The nature of the proposal in terms of its layout, lighting and opportunities for surveillance suggest to us that instances of anti-social behaviour are perhaps less likely to occur (in the event that approval is given) at this site than at many others. We do not regard the possibility of anti-social behaviour occurring as in any way justifying a refusal of the proposal."

In that matter the Court was considering the development of a McDonald's restaurant in a Mixed Use zone (as a non-complying development) and immediately adjacent to a residential zone with neighbouring houses closer than that associated with the present development.



Existing building finishes are robust with a combination of site security measures referred to above and proposed 24-hour operation will further minimise the potential for anti-social behavior and graffiti attack, not only on site but within the broader locality.

Site lighting is already screened/shielded to minimise light spill to the rear of the property and there is no access between the McDonald's site and residential development to the rear of the property.

The site will continue be lit for security purposes, with lights directed and shielded in such a manner to avoid light spill into the adjoining residential properties.

Odour is often a matter raised in relation to restaurants.

The key sources of potential odours from the development are associated with cooking and waste storage on the premises.

With regard to cooking, the kitchen will be operated in accordance with the Food Standards Code under the Food Act 2003 and Australian Standard 4674 – Design, Construction and Fit out of Food Premises; and will accord with the Environment Protection (Air Quality) Policy 1994, under the Environment Protection Act, both of which are intended to minimise the potential for the site to generate cooking odours.

McDonald's adopt a strict regime of cleaning and maintenance of exhaust systems to ensure that any build-up of fat is removed from filters and exhaust hoods daily and from ducting and mechanical plant monthly.

All waste is be stored in an existing waste storage area. This area is of a sufficient size to accommodate the number of required bins and is cleaned regularly as part of the premises ongoing operation.

The design and operation of the restaurant will incorporate an exhaust ventilation system which complies with the relevant Australian Standard for cooking, odour extraction, and operations which will minimise any odour that may be discharged by the development.

Service arrangements for the development will not be changed with deliveries to the site and waste collection, or any other service to occur only during suitable day time hours.



Summary

Having regard to the type and nature of the proposed development, its location in a Centre zone on an arterial road, the context of the locality and the sites juxtaposition relative to neighbouring residential development, it is considered that the proposal demonstrates an appropriate, if not a high degree of consistency with the relevant provisions of Gawler (CT) Development Plan.

The acoustic assessment shows the development will be compliant with night-time goal noise levels of the Environment Protection (Noise) Policy, and considerable effort has already been put into ensuring that amenity impacts at the interface with adjoining residential developments are addressed, and that site security is maintained at the highest possible levels.

The operation of the site 24/7 is likely to enhance rather than detract from the security of the public in the locality.

For all of the above reasons I am of the view that the application warrants the approval of the Council.

9

Please do not hesitate to contact me on 81307222 or by email dhutchison@accessplanning.com.au if you have any queries regarding any of the above.

Yours sincerely,

David Hutchison BA CPP PIA ACCESS PLANNING (SA) PTY LTD

Dttutchban

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McDonald's Gawler

Extension of Hours of Operation

Environmental Noise Assessment

S2929C4

February 2018

SONUS.

Sonus Pty Ltd 17 Ruthven Avenue Adelaide 5000 SA +61 (8) 8231 2100 www.sonus.com.au **Document Title** : McDonald's Gawler

Environmental Noise Assessment

Document Reference: S2929C4

Date : February 2018

Author : Jason Turner, MAAS

Reviewer : Chris Turnbull, MAAS

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McDonald's Gawler – Extension of Hours of Operation Environmental Noise Assessment S2929C4 February 2018



1 INTRODUCTION

An environmental noise assessment has been made of the proposed extension in trading hours of the McDonald's restaurant at Adelaide Road, Gawler.

The restaurant has a drive-through and car parking facilities, and is approved to operate from 6am to 12am on Sunday to Wednesday, and from 6am to 1am on Thursday to Saturday. The proposal is to extend the approved operating hours to allow 24 hour trading.

The closest dwellings to the site are located across George Lane, as shown on Figure 1.

There is an existing 2m high solid fence along the south-western and south-eastern boundary of the site adjacent to the drive through facility. The fence blocks line of sight between vehicle movements and ordering activity at the site and the dwellings and provides specific and significant noise reduction to the dwellings.

The assessment considers the environmental noise from activities at the site during the proposed extended hours (midnight to 6am on Monday to Thursday, 1am to 6am on Friday to Sunday), which include the use of the drive through facility; use of the car park; and operation of mechanical plant. All of these activities already occur during the approved hours and are not new to the site.

The assessment predicts the noise levels at the closest dwellings from the site, and compares them against the relevant requirements of the Gawler Council Development Plan and the *Environment Protection (Noise) Policy 2007* to ensure that the proposal does not adversely impact on the existing amenity of the closest dwellings.

The assessment has been based on:

- a site visit and manual noise measurements, conducted at site on 26 August 2017;
- noise data for the mechanical plant collected from the site during a previous environmental noise assessment; and,
- an understanding that the existing mechanical plant and site built form will not change with the proposed extension of operating hours.



Figure 1: McDonald's Gawler site and the closest dwellings.



2 ASSESSMENT CRITERIA

2.1 Development Plan

The subject land is located within a Town Centre Historic (Conservation) Zone in the Gawler CT Development Plan (consolidated 28 April 2016), whilst the closest dwellings are located within a Residential Historic (Conservation) Zone in the same Development Plan.

The Development Plan has been reviewed and particular regard has been given to the following Council Wide Interface Between Land Uses Provisions relevant to environmental noise:

OBJECTIVES

Objective 40: Protect community health and amenity and support the operation of all desired land uses.

PRINCIPLES OF DEVELOPMENT CONTROL

97. Development should not detrimentally affect the amenity of the locality or cause unreasonable interference through any of the following:

(b) noise:

...

103. Development should be consistent with the relevant provisions in the current Environment Protection (Noise) Policy.

2.2 Environment Protection (Noise) Policy 2007

Council Wide Interface Between Land Uses Principle of Development Control 103 references the *Environment Protection (Noise) Policy 2007* (the Policy).

The objective environmental noise criteria provided by the Policy are based on the World Health Organisation Guidelines to prevent annoyance, sleep disturbance and unreasonable interference on the amenity of an area. Therefore, compliance with the Policy will also satisfy the subjective provisions in the Development Plan which are related to environmental noise.

The Policy establishes goal noise levels to be achieved at the noise receivers (the closest dwellings), based on the Development Plan Zones in which the noise source (the facility) and the noise receivers are located, and the land use that the zones principally promote.

McDonald's Gawler – Extension of Hours of Operation Environmental Noise Assessment S2929C4 February 2018



For a facility that is located in a zone which principally promotes commercial activity, and dwellings located in a residential area, the Policy provides a compliance¹ goal noise level of 50 dB(A) for night-time (10pm to 7am) activities.

When measuring or predicting noise levels for comparison with the goal noise levels of the Policy, a penalty adjustment may be applied if the noise exhibit any of the "annoying" characteristics of tone, impulse, low frequency and modulation. A 5 dB(A) penalty is applied if one characteristic is present; 8 dB(A) is applied for two characteristics; and 10 dB(A) is applied for three or four characteristics.

In order to apply a penalty, the characteristic must be dominant when considered within the context of the existing acoustic environment at the noise sensitive receivers. Where applicable, the penalty is added to the measured or predicted noise levels.

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¹ The proposal is an extension of hours for existing noise sources that already operate during both the day and night periods.

3 ASSESSMENT

A noise prediction model for the site has been established with noise data input based on the following:

- noise measurement data of the existing mechanical and refrigeration plant collected during an earlier assessment, supplemented by manufacturer's noise data for the balance of plant now installed at the site. The Appendix provides the plant and associated sound power level inputs to the model; and,
- Sonus noise database which includes a range of previous noise measurements of:
 - drive-through activity, which include operation of the customer order vehicles, vehicles moving and idling at the drive through facility;
 - o car park activities, which include vehicle movements, the opening and closing of vehicle doors; and getting in and out of cars.

The noise model and its inputs were supplemented with the noise measurements conducted at site on 26 August 2017.

The noise model takes into account the following:

- the separation distance between the noise sources and the dwellings;
- the time and duration that the noise sources operate;
- the influence of the boundary fence and other building structures;
- meteorological conditions conducive to sound propagation in accordance with the Policy (albeit with limited influence over such distances); and,
- the following concurrent level of activity in a 15 minute² period:
 - o continual use of the closest drive-through lane;
 - o car park activity associated with the use of 8 car park bays; and
 - o continual operation of the air conditioning, ventilation and refrigeration (mechanical) plant.

Based on the above, the predicted noise levels at the closest dwellings (refer Figure 1) and comparisons with the relevant goal noise level of the Policy are provided in the table below:

Dwelling	Assessment Criteria, dB(A)	Predicted Noise Level, dB(A)	Penalty Adjustment, dB(A)	Resultant Noise Level, dB(A)
R1		44		49
R2	50	37	+ 5	42
R3		39		44

A 5 dB(A) penalty for modulation has been applied to predicted noise levels.

The table indicates that the noise from activity at the facility during the proposed extended hours will achieve the goal noise levels of the Policy.

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² Default assessment period in accordance with the Policy.

McDonald's Gawler – Extension of Hours of Operation Environmental Noise Assessment S2929C4 February 2018



4 CONCLUSION

An assessment has been made of the environmental noise from activity at the McDonalds Gawler facility during the proposed period of extended hours.

The assessment has predicted the noise levels at the closest dwellings from noise sources and activities at the site during the proposed extended hours, which include use of the drive through facility; use of the car park; and operation of mechanical plant.

Based on the predictions, the noise level at the closest dwellings from operation of the site during the extended hours of operation will be no greater than 49 dB(A), therefore achieving the 50 dB(A) night-time goal noise level of the *Environment Protection (Noise) Policy 2007*.

In doing so, it is considered that the relevant environmental noise provisions in the Gawler Council Development Plan are satisfied and the extension in hours will not cause an unreasonable interference in the existing amenity at the dwellings.



APPENDIX: MECHANICAL EQUIPMENT

Mechanical and refrigeration plant and the associated sound power level input to the noise model are summarised in the following table:

Plant	Maximum Sound Power Level
Party room ACU – Temperzone OSA 181R	70 dB(A)
Kitchen ACU – Temperzone OSA 570 RKTBV	80 dB(A)
Dining ACU – Actron CAY620T	81 dB(A)
Drive-through wall ACU - Fujitsu AOTG09KMCA	64 dB(A)
Restaurant north ACU	80 dB(A)
Kitchen exhaust fan 1	70 dB(A)
Kitchen exhaust fan 2	69 dB(A)
Refrigeration CU 1	75 dB(A)
Refrigeration CU 2	75 dB(A)



Register Search (CT 5223/48) 14/11/2018 11:22AM

Order ID 20181114004381

Cost \$28.75



The Registrar-General certifies that this Title Register Search displays the records maintained in the Register Book and other notations at the time of searching.



Certificate of Title - Volume 5223 Folio 48

Parent Title(s) CT 4176/839

Creating Dealing(s) CONVERTED TITLE

Title Issued 28/10/1994 Edition 2 **Edition Issued** 02/11/1994

Estate Type

FEE SIMPLE

Registered Proprietor

MCDONALD'S PROPERTIES (AUSTRALIA) PTY. LTD. (ACN: 008 496 928) OF 2-6 SMITH STREET COLLINGWOOD VIC 3066

Description of Land

ALLOTMENT 3 FILED PLAN 125590 IN THE AREA NAMED GAWLER SOUTH HUNDRED OF MUDLA WIRRA

Easements

NIL

Schedule of Dealings

NIL

Notations

NIL **Dealings Affecting Title**

Priority Notices NIL

NIL **Notations on Plan**

Registrar-General's Notes NIL

Administrative Interests NIL

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Order ID

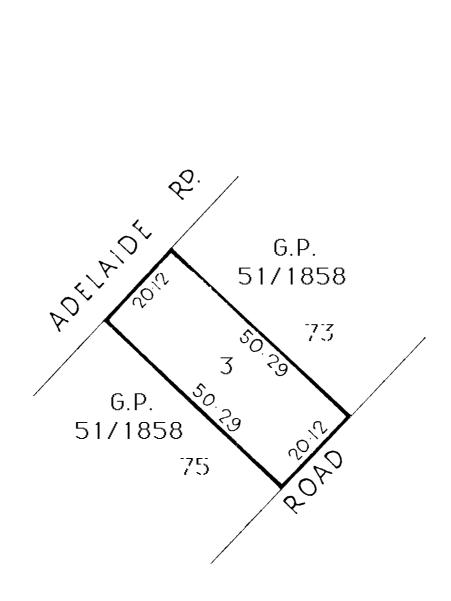
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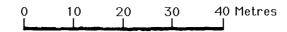
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20181114004381 \$28.75

This plan is scanned for Certificate of Title 4176/839

LAST PLAN REF: G.P. 51/1858





Note: Subject to all lawfully existing plans of division



Register Search (CT 5319/833) 14/11/2018 11:23AM

Order ID 20181114004418 Cost \$28.75

REAL PROPERTY ACT. 1886



The Registrar-General certifies that this Title Register Search displays the records maintained in the Register Book and other notations at the time of searching.



Certificate of Title - Volume 5319 Folio 833

Parent Title(s) CT 5147/911

Creating Dealing(s) TG 8005321

Title Issued 18/01/1996 Edition 1 **Edition Issued** 18/01/1996

Estate Type

FEE SIMPLE

Registered Proprietor

MCDONALD'S PROPERTIES (AUSTRALIA) PTY. LTD. (ACN: 008 496 928) OF 2-6 SMITH STREET COLLINGWOOD VIC 3066

Description of Land

ALLOTMENT 2 FILED PLAN 104584 IN THE AREA NAMED GAWLER SOUTH HUNDRED OF MUDLA WIRRA

Easements

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED A TO THE ETSA CORPORATION (TG 8005321)

Schedule of Dealings

NIL

Notations

NIL **Dealings Affecting Title**

Priority Notices NIL

NIL **Notations on Plan**

Registrar-General's Notes NIL

Administrative Interests NIL

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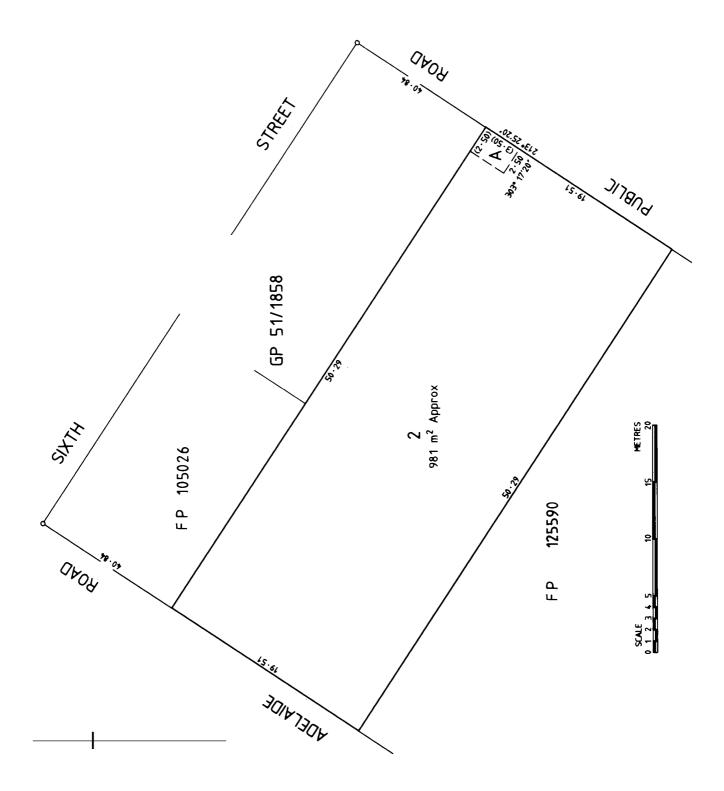
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Cost

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20181114004418

\$28.75





Order ID

Register Search (CT 5457/934) 14/11/2018 11:24AM

20181114004448

Cost \$28.75

REAL PROPERTY ACT. 1886

South Australia

The Registrar-General certifies that this Title Register Search displays the records maintained in the Register Book and other notations at the time of searching.



Certificate of Title - Volume 5457 Folio 934

Parent Title(s) CT 4369/842

Creating Dealing(s) CONVERTED TITLE

Title Issued 14/10/1997 Edition 3 **Edition Issued** 13/09/1999

Estate Type

FEE SIMPLE

Registered Proprietor

MCDONALD'S PROPERTIES (AUSTRALIA) PTY. LTD. (ACN: 008 496 928) OF 2-6 SMITH STREET COLLINGWOOD VIC 3066

Description of Land

ALLOTMENT 71 FILED PLAN 153872 IN THE AREA NAMED GAWLER SOUTH HUNDRED OF MUDLA WIRRA

Easements

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED A FOR SEWERAGE PURPOSES (TG 6940585)

Schedule of Dealings

NIL

Notations

NIL **Dealings Affecting Title**

Priority Notices NIL

NIL **Notations on Plan**

Registrar-General's Notes NIL

Administrative Interests NIL

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Order ID

Cost

Register Search (CT 5457/934)

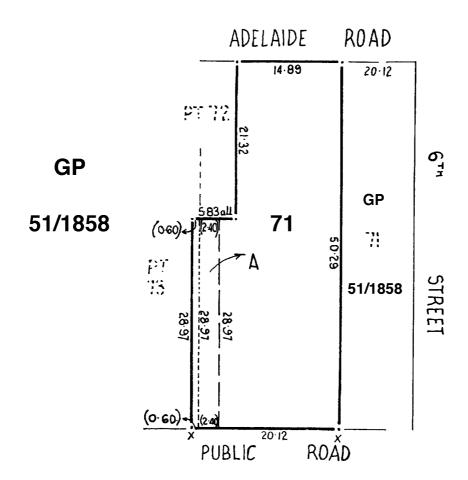
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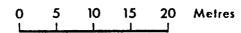
20181114004448 \$28.75

THIS PLAN IS SCANNED FOR CERTIFICATE OF TITLE 4369/842 SEE TITLE TEXT FOR EASEMENT DETAILS









NOTE: SUBJECT TO ALL LAWFULLY EXISTING PLANS OF DIVISION

Town of Gawler Council Assessment Panel

ATTACHMENTS UNDER SEPARATE COVER Wednesday 30 January 2019

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5.2	Development Application:	490/10/2018	29
	Applicant:	QUICKDRAW DRAFTING	
	Address:	39 Theen Avenue WILLASTON 5118	
	Nature of Development:	Construction of 5 warehouse buildings (industrial use), signage, onsite car parking, landscaping and combined fence and retaining walls exceeding 2.1m	
	Attachment 1 -	Application documentation and plans	31

ATTACHMENT 1

Development Application Form

Completing this application

All sections must be completed. Failure to complete all sections may result in further delays or the inability to process your application.

If hand written please print clearly using BLOCK LETTERS and place a TICK in appropriate boxes



Section 1 – Correspondence Method (Planning and Building)

By selecting "I Accept" below, you agree (as the Applicant, the Owner, and/or the Authorised Agent) to be legally bound by the terms and conditions
of this service and that you consent all correspondence relevant to this application or which is otherwise required to be provided to you under the
Development Act 1993 and including Decision Notification Forms, stamped plans and relevant documents being provided to you in Electronic
Format Only. Please tick only one of the following boxes.

☑ I Accept	
OR If you do not wish to con	rrespond electronically, 3 complete sets of hardcopy documents will be required
I choose only to receive general Forms by hardcopy mail.	al assessment correspondence via email but to receive stamped Plans and Decision Notification
	dress rs@quickdrawdrafting.com.au
Section 2 – Consent Soug	nt englishment
Select one type of consent you wish	
Development Plan Consent (Planning Only)	Building Rules Consent (Building Only) Development Approval (Planning & Building)
i If unsure of what type of consen	t is needed telephone Customer Service on 8522 9211
Section 3 – Location of Pro	pposed Development
(This section must be completed)	
or /3	6062 1 863
HOUSE NUMBER LOT NUMBER	
KELLYS ROAD	WILLASTON SA 5118
STREET	SUBURB POSTCODE
Section 4 – Applicant Deta	ils
	ce will be sent to the Applicant (This section must be completed)
Name OV/O	
6-104	CDCAW DCAFTING JES. SURNAME
	BOX 308 WILLASTON SA 5118
No., STREE	T, SUBURB, STATE, POSTCODE
Email report	violdrawdraffing. com. au Phone 85224152
Section 5 – Owners Details	of the Subject Land
i If same as Applicant, leave bl	ank and move to Section 6.
	TO PTY CTD SES. SURNAME
Postal Address 6 6	REAVES COVET EVANGTON PARK SA SIIG T, SUBURB, STATE, POSTCODE
- "	gawlerauto.com.au Phone 8522/166
Section 6 - Contact for Fu	ther Information
	be completed if contact person is not the Applicant
Name OUICK	DRAW DRAFTING
GIVEN NAM	ES, SURNAME
Email road	grickdrowdrafting-com.au Phone

	ction 7 – Builders De	lalis									
1	This Section must be compl		applyi	ng for Buildir	g and [Develop	ment Ap	oroval			
	Owner Builder										
	OR										
	Builders Name 70	BG ADVIG	SD	n I I			Phone		*		
Po	stal Address										
		TREET, SUBURB, STATE, F	POSTCO	DE							
Em	nail						Lic. No.				
Se	ction 8 – Description	of Developmen	t & A	ssociate	d De	tail					
De	scription of Development (f	or example single storey	detache	ed dwelling, do	mestic	garage,	warehous	e with o	ffice, tree ren	noval)	
P	ROPOSED SHED/	PACE TEVENO	PME	VT WITH	CAK	PAK	KIN6	\$ 4	NDSCA	aN6	
Evi	isting site use (If Known)	VACANT									
	L				Vac	П.	Nie				
	es the proposal affect a regulated te: A regulated or significant tr		ning lan	d that may b	Yes e affect	ed (incl	No luding da	mage to	tree roots)	by the pr	pposed
	development.										
1	If unsure what a regulated of Councils' website: www.gaw				avPrun	ing a i	ree on M	proper	ty - this ca	n be acce	essed via
ls t	here a brush fence within 3 metre	es of the proposed buildir	g work?	?	Yes		No				
Are	there any easements on the Lar	nd?			Yes		, No				
Is t	he site connected to Sewer (SA V	Vater)?			Yes	$ \overline{\mathbf{A}} $	No		Septic Sy	stem	
Sec	ction 9 – Costing and	Floor Area	Figur			1982	4	V - 9			
1	Council may require written		osts (Ti	his section m	ust be	comple	ted)				
							aroa of w	Sales F		875	m ²
Est	timated total cost of Proposal:	\$ 250,000		Es	timated	HOOF 8	alea UI W	ork:		019	111
Est	Development Cost does no	ot include fit out cost	NTD L						upoil	019	
•	Development Cost does no Please note works valued	ot include fit out cost over \$15,000 require 0	CITB Le						uncil	019	
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① Sec	Development Cost does not Please note works valued oction 10 – Declaration verline Clearance	ot include fit out cost over \$15,000 require (evy to be pai	d and r	eceipt	presente	d to Co			
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Town of Gawler • Telephone (08) 88522 9211 • Email planningadmin@gawler.sa.gov.au • www.gawler.sa.gov.au • Administration Centre 43 High Street Gawler East South Australia • Post PO Box 130 Page S 21 6 87
Page 2 of 3

Updated 23/12/16

DEVELOPMENT REGULATIONS 1993

Declaration of Applicant (Pursuant to clause 2A(1) of Schedule 5)

To: 7	TOWN OF GANGER
From: (DUICKTRAN TRAFING
Date of App	plication: 061 721 17
Location of	Proposed Development:
House No: . Section No	Lot No:/3. Street: KEUYS RD Town/Suburb W/WA376N (full/part): Hundred: MVDGA WIRRA
	062. Folio:863
PROPOSET CAR PAR I .QVI CKN the develop involve the with the ple purposes of	Proposed Development: SHED OFFICE DEVELOPMENT WITH PLING & CANDECAPING
Date: 06 / Signed: 1	12/17 Skoda
development th	on is only relevant to those development applications seeking authorisation for a form of that involves the construction of a building (there is a definition of 'building' contained in the Development Act 1993).
a) a b) a	ents of section 86 of the <i>Electricity Act 1996</i> do not apply in relation to: a fence that is less than 2.0 m in height; or a service line installed specifically to supply electricity to the building or structure by the operator of the transmission or distribution network from which the electricity is being

Note 3

supplied.

A Building Safely Near Powerlines brochure has been prepared by the Technical Regulator to assist applicants and other interested persons. Hard copies of this brochure are available from councils and the Office of the Technical Regulator. The brochure and other relevant information can also be found at www.technicalregulator.sa.gov.au



DEVELOPMENT APPLICATION FEE SCHEDULE

Development No:

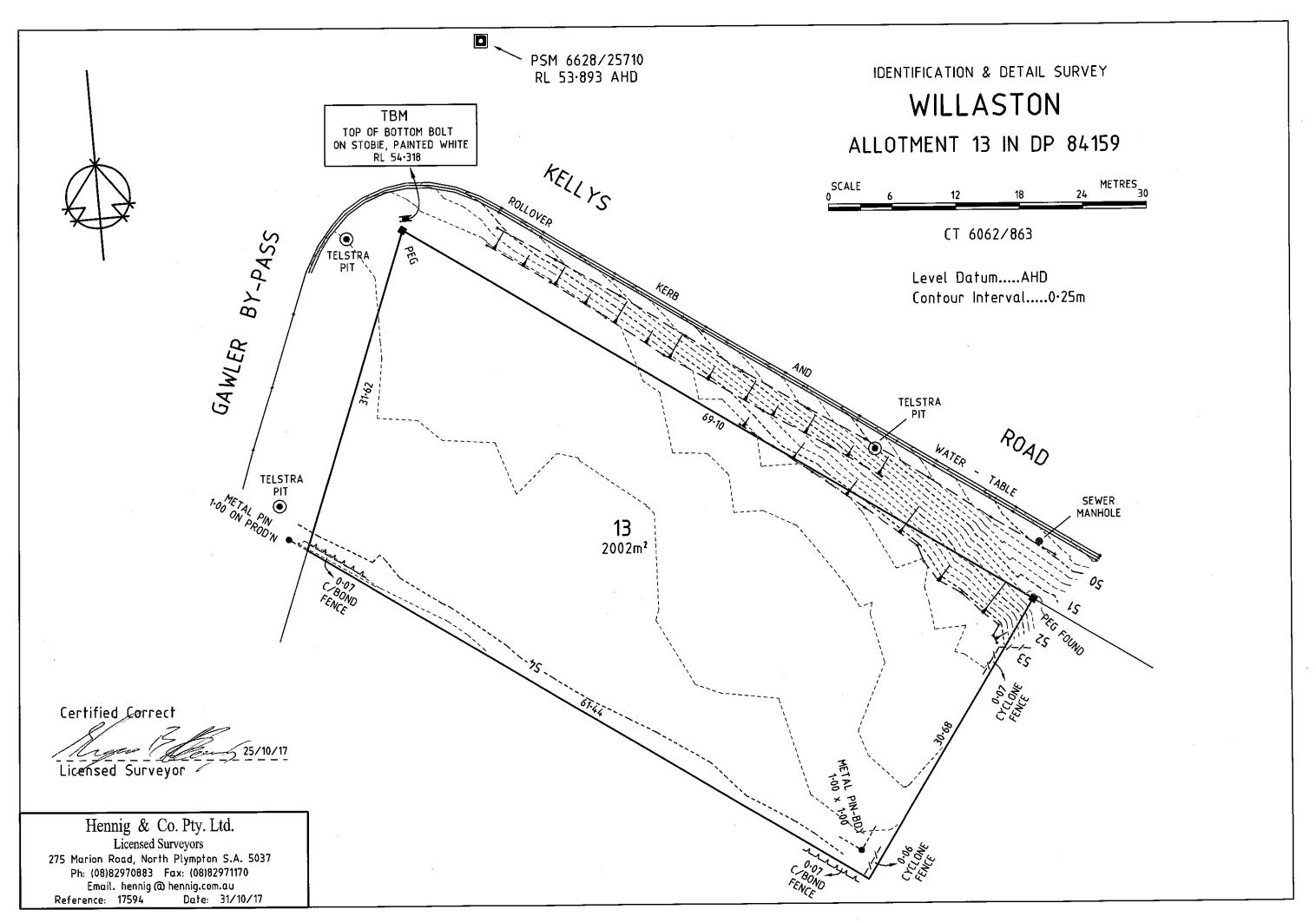
Fees are only applicable from 1 July 2017 - 30 June 2018 unless otherwise indicated.

Form last updated 3 July 2017

490/

1

Form last upo	dated 3 July 2017		7001	100
FEE TYPE		Fee Rate	GST	Amount Payable
LODGEMENT FEE				
Standard Lodgement Fee - Required for all applications		62.50	Exempt	\$ 62.50
Additional Lodgement Fee (if development cost exceeds \$5000 Consent is required)	70.50	Exempt		
Swimming Pool Lodgement Fee (if application involves the cons swimming pool or spa pool, or a safety fence or barrier for a swimming	186.00	Exempt		
PLANNING ASSESSMENT FEE				Way Tal
If the development cost does not exceed \$10,000		39.00	Exempt	
If the development cost exceeds \$10,000 but does not exceed \$	100.000	107.00	Exempt	
If the development cost exceeds \$100,000		0.125% dev. cost	Exempt	3/2.50
Building Rules Consent Only Fee (if application does not require pursuant to Schedule 1A of the Development Act Regulations)	e planning assessment	52.00	Exempt	
ADDITIONAL FEES FOR NON-COMPLYING DEVELOPMENT		Will have		
Non-Complying Lodgement Fee - additional to standard lodgem	ent fee(s)	100.00	Exempt	
Non-Complying Development Administration Fee		127.00	Exempt	
Assessment Fee - if the development cost does not exceed \$	10 000	53.50	Exempt	
Assessment Fee - if the development cost exceeds \$10,000 b				
\$100,000		127.00 0.125% of	Exempt	
Assessment Fee - if the development cost exceeds \$100,000		dev. cost	Exempt	
AGENCY REFERRAL FEES				ne s
Government Agencies (DPTI, CFS, State Heritage Unit):				
-If the development cost does not exceed \$1,000,000		222.00	Exempt	
-If the development cost exceeds \$1,000,000		371.00	Exempt	
Environment Protection Authority (If development involves Wood Cement Works, Ferrous & Non Ferrous Metal Melting, Pulp or Pap Recycling Depot, Metallurgical Works)		371.00	Exempt	
OTHER PLANNING FEES				
Public Notification (For all Category 2 and 3 applications)		107.00	Exempt	
Category 3 Advertising (for advertisement in Bunyip newspaper)		396.00	Incl.	
Certificate of Title Search		36.00	Incl.	
Application to Extend any Consent or Approval		100.00	Exempt	
SEPTIC TANK APPLICATION (WASTEWATER) FEES			W	
Septic Application Fee - Including 3 inspections		469.00	Exempt	
Fee for Alteration of existing on-site system		106.00	Exempt	
Inspection Fees - Additional		117.00	Exempt	
BUILDING RULES ASSESSMENT FEE				25 %
Minimum Fee		68.00	Incl.	
Classes 1, 2 & 4 (dwellings & flats)	Floor Aream ²	x \$3.01/m ² =	Incl.	
Classes 3, 5 & 6 (lodging premises, offices, shops)	Floor Area m ²	-	Incl.	
Classes 7 & 8 (commercial storage / manufacturing / packaging)	Floor Area m ²	x \$2.66/m ² =	Incl.	
Class 9a & 9c (health care buildings)	Floor Area m ²		Incl.	
Class 9b (assembly buildings)	Floor Area m ²	x \$3.99/m ² =	Incl.	
Class 10 (garages, carports, verandahs, fences)	Floor Area m ²	x \$0.90/m ² =	Incl.	
Staged Consent Fee (If private certifier to be used for Building Ru	Commence of the Commence of th	62.50	Exempt	62.50
OTHER BUILDING FEES	iles consent)	02.00	Exchipt	02 10
Demolition Fee (x 0.2 of building assessment fee or minimum fee, which	hover in greater)	Min. 68.00	Incl.	
Certificate of Classification Fee ((Area x 0.8) x (Class Fee x 0.8) or greater)	Min. 66.50	Incl.		
Certificate of Occupancy Fee (Required for classes 2 - 9 only)		44.75	Incl.	
Variation to Development Application Fee		as for new application	Exempt	
Consent to Development at Variance to Building Rules		156.00	Incl.	
Essential Fire Safety Provisions		96.00	Incl.	
Essential Fire Safety Provisions TOTAL FEE PAYABLE			Incl. e 34 9 1	8/7





 Product
 Register Search (CT 6062/863)

 Date/Time
 05/01/2018 09:33AM

Customer Reference 490/10/2018

 Order ID
 20180105001289

 Cost
 \$28.25

REAL PROPERTY ACT, 1886



The Registrar-General certifies that this Title Register Search displays the records maintained in the Register Book and other notations at the time of searching.



Certificate of Title - Volume 6062 Folio 863

Parent Title(s) CT 5806/296

Creating Dealing(s) RTC 11418187

Title Issued 10/08/2010 Edition 2 Edition Issued 20/04/2017

Estate Type

FEE SIMPLE

Registered Proprietor

THAUTO PTY. LTD. (ACN: 116 782 748)
OF 6 GREAVES COURT EVANSTON PARK SA 5116

Description of Land

ALLOTMENT 13 DEPOSITED PLAN 84159 IN THE AREA NAMED WILLASTON HUNDRED OF MUDLA WIRRA

Easements

NIL

Schedule of Dealings

Dealing Number Description

12704780 MORTGAGE TO WESTPAC BANKING CORPORATION (ACN: 007 457 141)

Notations

Dealings Affecting Title NIL

Priority Notices NIL

Notations on Plan NIL

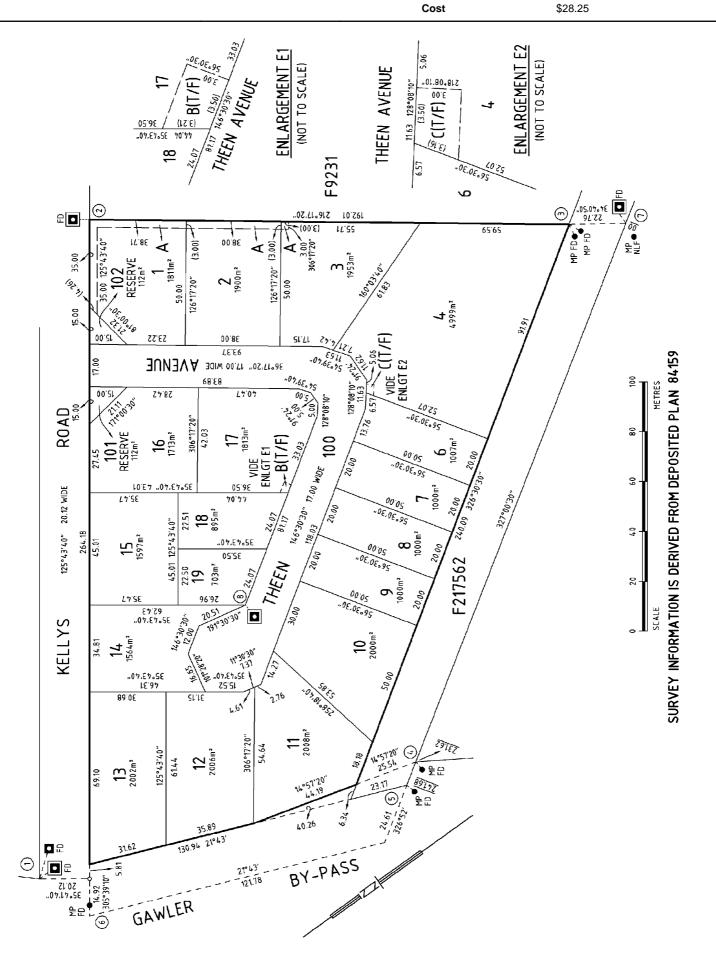
Registrar-General's Notes NIL

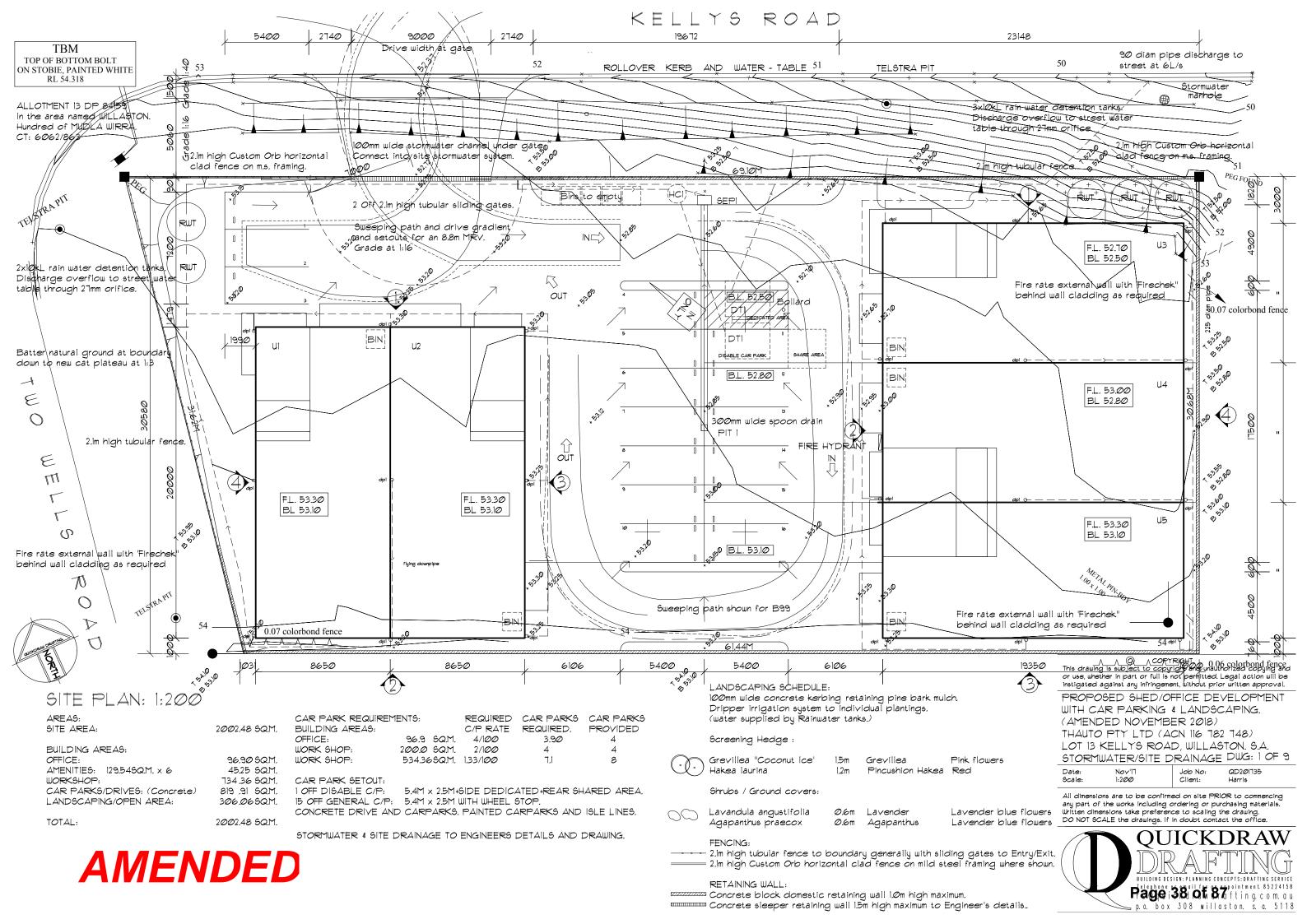
Administrative Interests NIL

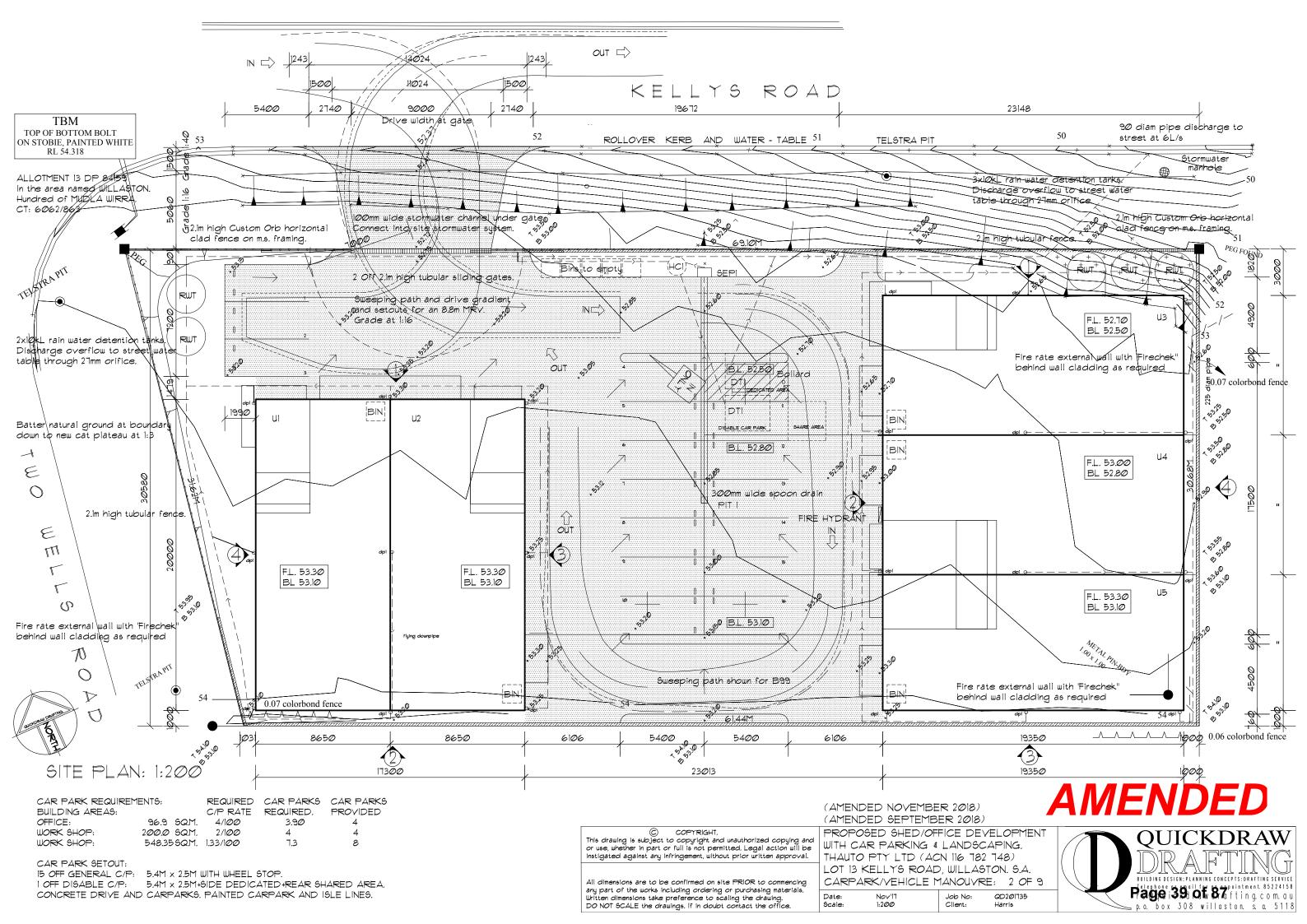
Land Services Page 36 of 87 Page 1 of 2

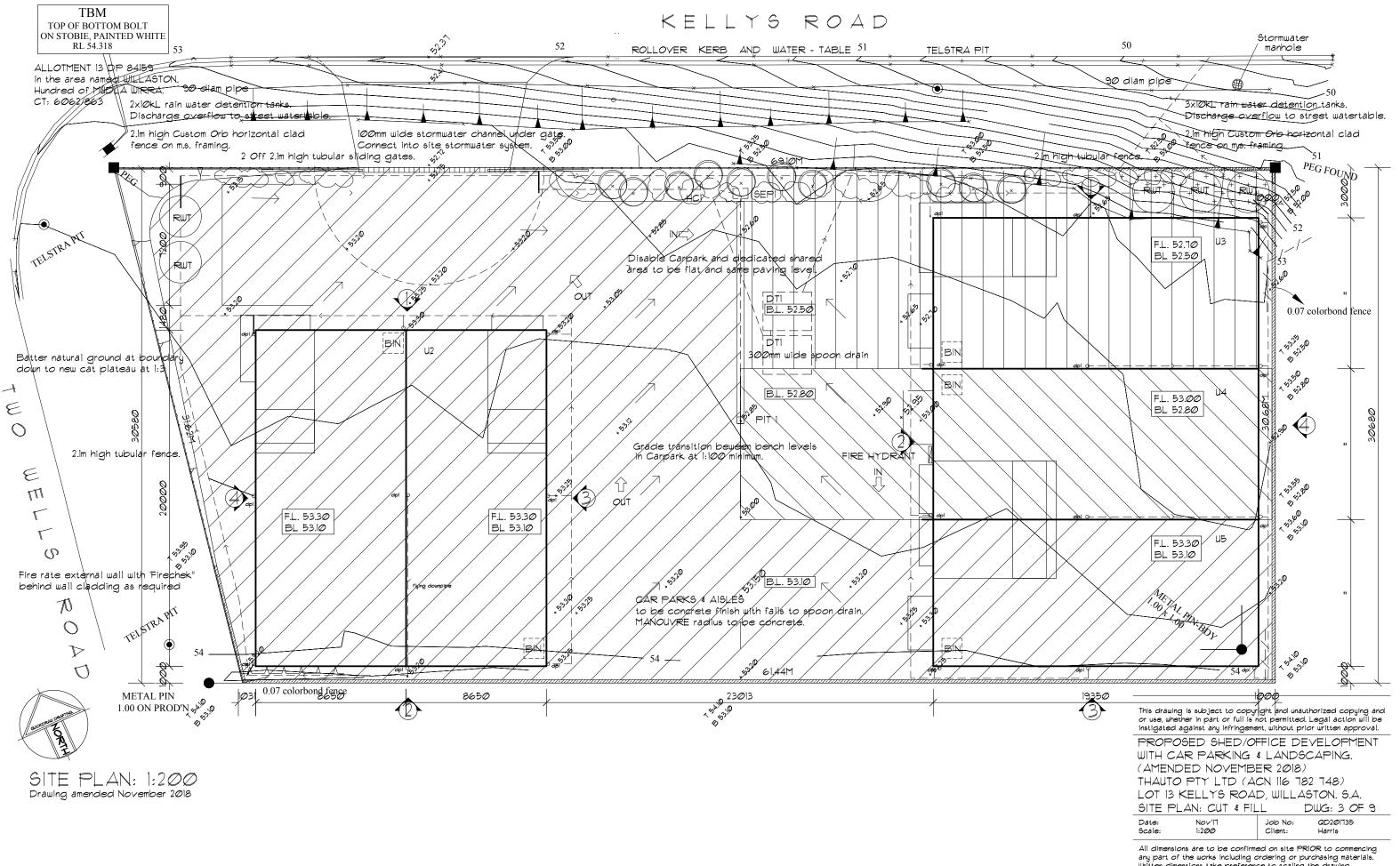
Product
Date/Time
Customer Reference
Order ID

Register Search (CT 6062/863) 05/01/2018 09:33AM 490/10/2018 20180105001289









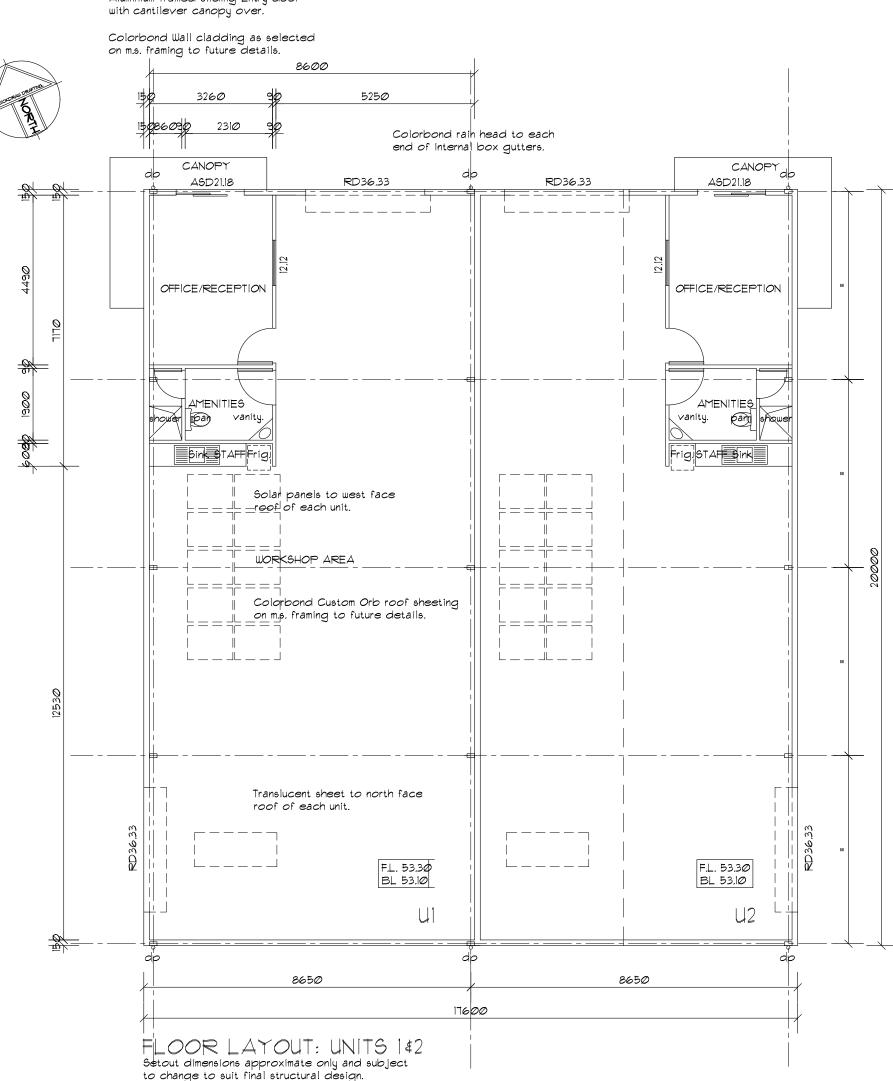
AMENDED

any part of the works including ordering or purchasing materials. Written dimensions take preference to scaling the drawing.

DO NOT SCALE the drawings. If in doubt contact the office.



Aluminium framed sliding Entry door



FLOOR AREAS:

UNIT 1:

OFFICE: 16.53 SQ.M. AMENITIES: 9.055QM WORKSHOP: 145.42 SQ.M. TOTAL: 171 .005Q.M.

UNIT 2:

OFFICE: 16.53 SQ.M. AMENITIES: 9.055Q.M. WORKSHOP: 149.465Q.M. TOTAL: 175.045Q.M.

AMENDED

save paper: don't photocopy and post - scan and email:

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PROPOSED SHED/OFFICE DEVELOPMENT WITH CAR PARKING & LANDSCAPING. (AMENDED NOVEMBER 2018)

THAUTO PTY LTD (ACN 116 782 748) LOT 13 KELLYS ROAD, WILLASTON. S.A.

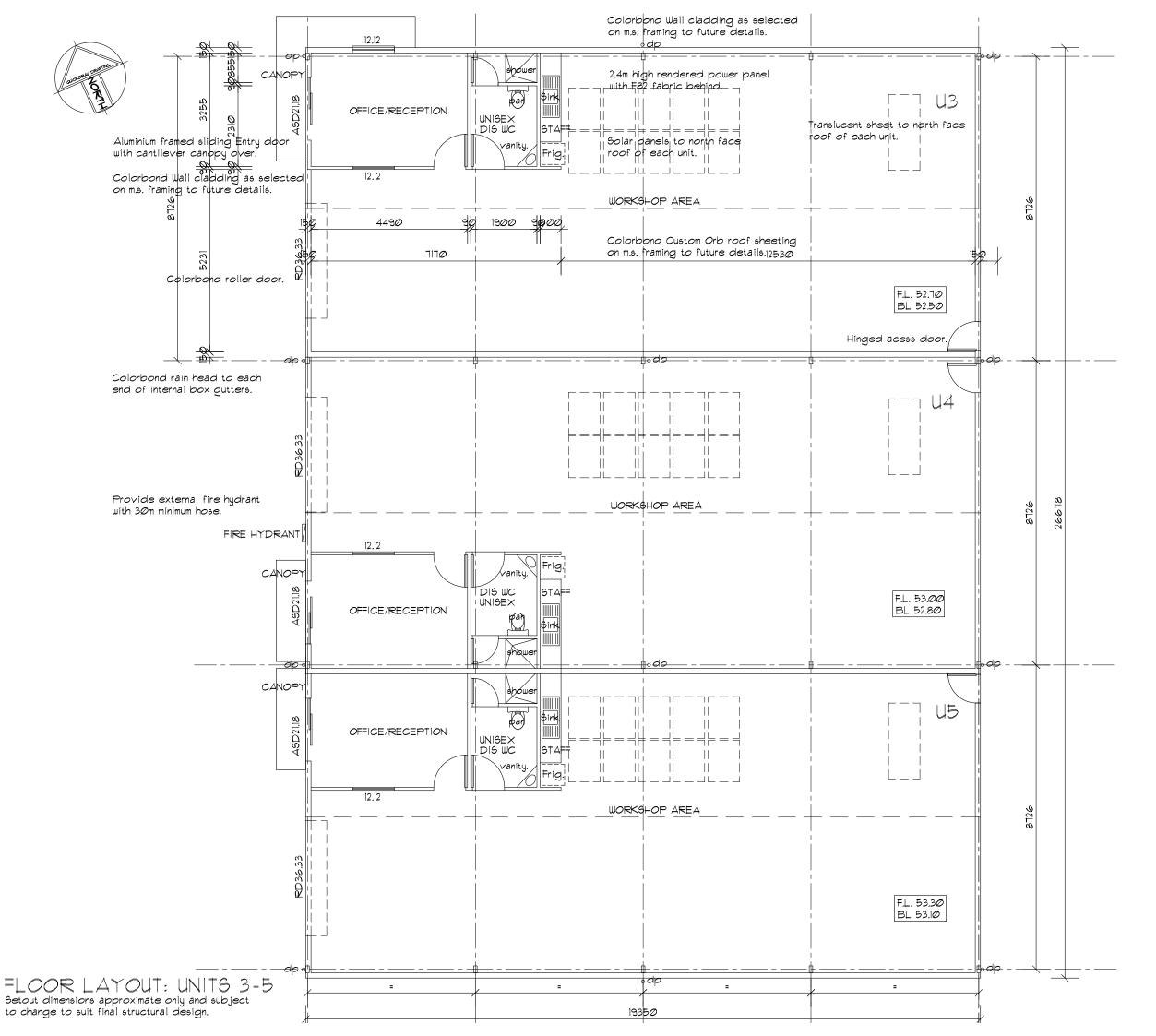
FLOOR LAYOUTS: UNITS 1 \$2: DWG: 4 OF 9

Date: Nov'17 1:100 QD2Ø1735 Job No: Client:

All dimensions are to be confirmed on site PRIOR to commencing any part of the works including ordering or purchasing materials. Written dimensions take preference to scaling the drawing.

DO NOT SCALE the drawings. If in doubt contact the office.





FLOOR AREAS: UNIT 3: OFFICE: 16.53 SQ.M. AMENITIES: 9.055QM. WORKSHOP: 146.17 SQ.M. TOTAL: 171.75 SQ.M. UNIT 4: OFFICE: 16.53 SQ.M. AMENITIES: 9.055Q.M. WORKSHOP: 147.14 SQ.M. TOTAL: 172 .72 SQ.M. UNIT 5: OFFICE: 16.53 SQ.M. AMENITIES: 9.055Q.M. WORKSHOP: 146.17 SQ.M. TOTAL: 171 .75 SQ.M.

AMENDED

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PROPOSED SHED/OFFICE DEVELOPMENT WITH CAR PARKING & LANDSCAPING. (AMENDED NOVEMBER 2018)

THAUTO PTY LTD (ACN 116 782 748) LOT 13 KELLYS ROAD, WILLASTON. S.A.

ELEVATIONS UNITS 3-5:

DWG: 5 OF 9

Date: Nov'17

QD2Ø1735 Job No:

Client:

All dimensions are to be confirmed on site PRIOR to commencing any part of the works including ordering or purchasing materials. Written dimensions take preference to scaling the drawing.

DO NOT SCALE the drawings. If in doubt contact the office.





SITE STORMWATER ASSESSMENT AND MANAGEMENT

RETAINING WALL DESIGN

CLIENT: GAWLER AUTO ELECTRICAL

ADDRESS: LOT 13 KELLYS ROAD, WILLASTON, S.A. 5118

JOB NUMBER: HE16217

NOVEMBER 2017

REVISION A: APRIL 2018

REVISION B: SEPTMBER 2018

REVISION C: NOVEMBER 2018



HARNETT ENGINEERING

SAM HARNETT BE Hons (UniSA) MIE Aust, NER 34 MAIN NORTH ROAD WILLASTON SA 5118

PHONE: 0402 518 871

EMAIL: sam@harnettengineering.com.au

Design Brief - Statement

This report contains advice supplied by Harnett Engineering for stormwater management of a site and a concrete sleeper retaining wall. Should the owner have any issues with any part of this service then the owner must contact Harnett Engineering in writing prior to any commencement of any work in order to determine if an adjustment is required to the design brief.

Design Brief

The design brief used for stormwater management and retaining walls by Harnett Engineering and for all civil and building projects is to complete the minimum design requirements in accordance with the Building standards of Australia and any other relevant building rules/codes at the time of this reports production.

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1.0 INTRODUCTION & ASSUMPTIONS

The proposal for this site is to construct a 2 warehouses, one either side of the property and a bitumen car park. The aim of this report is to determine the storm water detention requirements for the site. Each of the warehouse will direct all storm water landing on the roof to rain water tanks. This report will analyse the prosed works and determine the sites detention requirements.

A retaining wall along the boundary of Kellys Road will also be constructed. The maximum height of the wall will be 2m

The sites area is 2002m² or 0.2ha



<u>Please refer to the storm water management drawing/s.</u> Storm water noters

- Roofed area, C_r=1, unroofed, impervious, paved area, C_i=0.9, Unroofed pervious area, C_p=0.1
- The permissible post development site discharge is (determined by council) 7.5L/s for a 1 in 100 year ARI storm lasting 5 mins.

2.0 SITE STORMWATER ANALYSIS

2.1 Pre-development Flow & Allowable Stormwater Flow onto Street

The predevelopment site discharge was determined by using a 1 in 10 year ARI storm lasting 5 mins.

Please see data below

Entire site - Pre Development Flow		
Cr (roof coefficient)	1	
Ar (area of roof)	0	m2
Ci (impervious coefficient)	0.9	
Ai (area of impervious)	0	m2
m	0.95	
10160	25.78	mm/hr
Cp (pervious coefficient)	0.10438	
Ap (area of pervious)	2002	m2
I (intensity 10yr ARI, 5 min)	97.96	mm/hr
Q (flow from site)	5.69	L/s

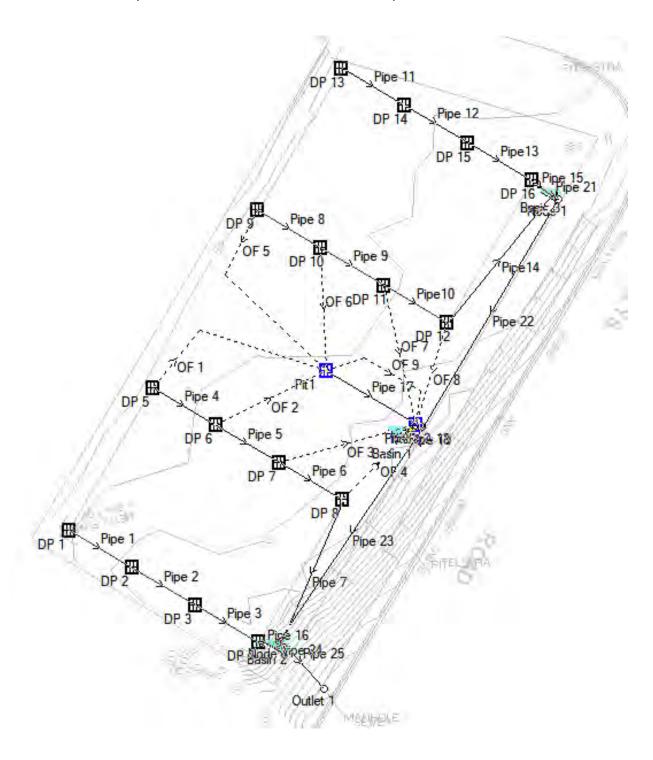
Predevelopment site discharge = 5.69L/s

The permissible post development site discharge is (determined by council)

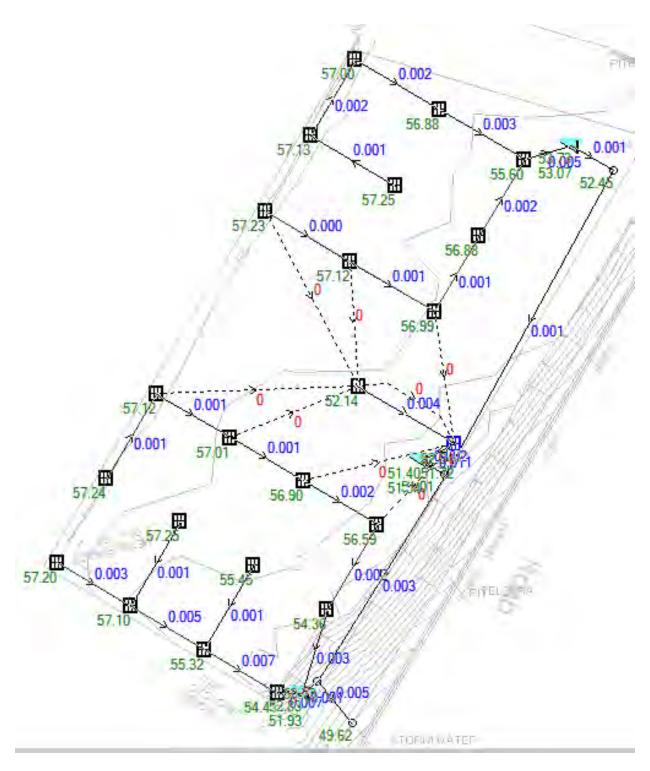
= 7.5L/s for a 1 in 100 year ARI storm lasting 5 mins.

2.2 Post Development Site Discharge and DRAINS Analysis

A DRAINS model was created for the proposed site. The DRAINS model was run for a 1 in 10 year ARI storm and a 1 in 100 year ARI storm. The DRAINS model and output can be seen below.

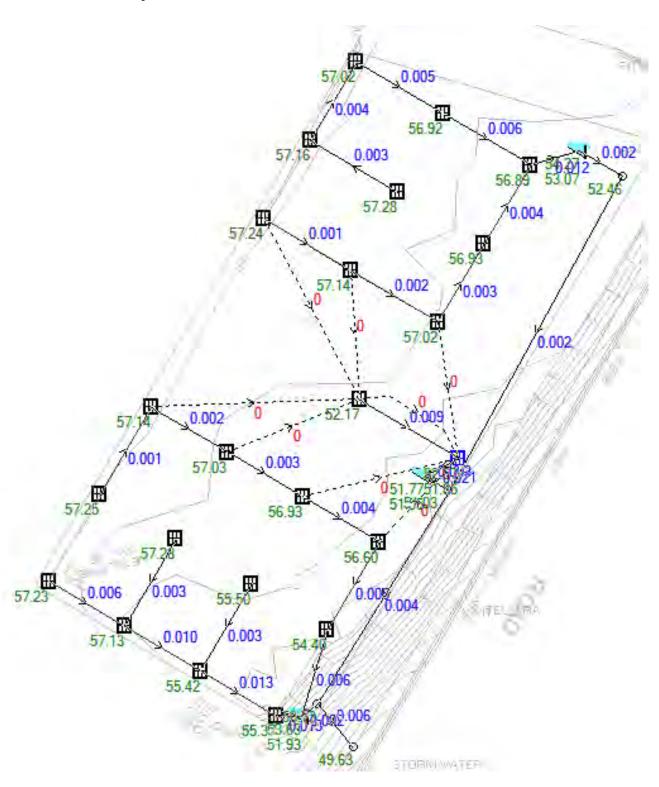


2.2.1 One in 10yr ARI



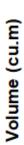
Blue values = pipe flow As seen site discharge is 5L/s

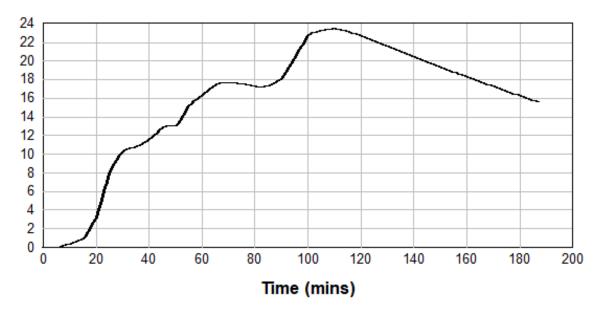
2.2.2 One in 100yr ARI



The critical storm was found to be 1 in 100 yr ARI lasting 2 hours
Blue values = pipe flow
As seen site discharge is 6L/s

<u>Detention Tank 1 = 3x10kL tanks</u>

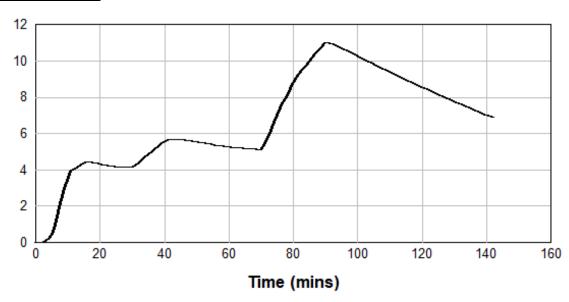




24kL of detention required. Release through 27mm orifice at 2L/s

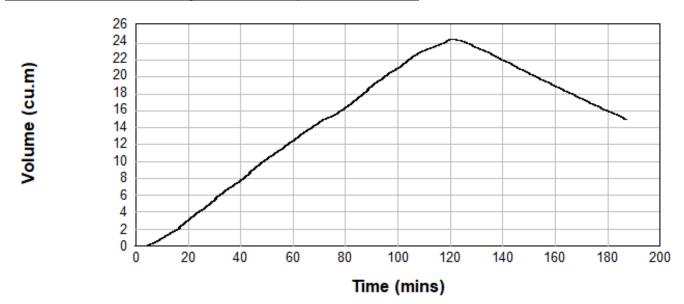
<u>Detention Tank 2 = 2x10kL tanks</u>





11kL of detention required.
Release through 27mm orifice at 2L/s

<u>Detention Tank 3 = 25kL underground (under carpark) detention tank</u>



25kL of detention required. Release through 40mm orifice at 3L/s

PIT / NODE DETA	AILS			Versior	1.8
NameMax HGL	Max F	ond	Max Su		Max Pond Min Overflow Constraint
		Arriving		e Freebo	
•••	(cu.m	_	(cu.m)		(55,117,5)
Pit1 52.17	0.012	-	0.68	0.000	None
	2.67 0.021		0.75	0.000	Inlet Capacity
N2 51.03 52	0.000	3.1	0.75		met capacity
N3 50.73	0.000				
	9.63	0.000			
DP7 57.23	0.008	0.000	0.37		None
DP9 57.13	0.002		0.47		None
DP11 55.42	0.002		1.88		None
DP12 55.37	0.001		1.63		None
DP1 57.25	0.002		0.35		None
DP2 57.14	0.002		0.46	0.000	None
DP3 57.03	0.001		0.57	0.000	None
DP4 56.93	0.002		0.37	0.000	None
DP5 56.60	0.002		0.40	0.000	None
DP6 54.40	0.001		2.60	0.000	None
DP8 57.28	0.002		0.32		None
DP10 55.50	0.004		0.30		None
DP17 57.24	0.004		0.36	0.000	None
DP18 57.14	0.001		0.46	0.000	None
DP19 57.02	0.002		0.58	0.000	None
DP20 56.93	0.002		0.67	0.000	None
DP21 56.89	0.001		0.71		None
N1 52.46	0.000		0.71		None
DP13 57.28	0.004		0.32		None
DP14 57.16	0.002		0.44		None
DP15 57.02	0.001		0.58		None
DP16 56.92	0.002		0.68		None
SUB-CATCHMEN					
	ived Grass		Grasse		Due to Storm
	ax Q Max (Tc	Tc	
(cu.m/s)	(cu.m	-	(cu.m/s	-	(min) (min) (min)
	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
	015 0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
	0.000		0.00	0.00	1% AEP, 45 min burst, Storm 8
	0.000		0.00	0.00	1% AEP, 45 min burst, Storm 8
Cat110.001 0.	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
	0.001	0.000	1.00	0.00	0.00 1% AEP, 45 min burst, Storm 8
Cat1 0.001 0.	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
Cat2 0.001 0.	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
	0.000		0.00	0.00	1% AEP, 45 min burst, Storm 8
Cat4 0.001 0.	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
Cat6 0.001 0.	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
Cat100.003 0.	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8

Cat 17	0.001	0.001	0.000	1.00	0.00	0.00 1% AEP, 45 min burst, Storm 8
Cat180.001	0.001	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
Cat190.001	0.001	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
Cat200.001	0.001	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
Cat210.001	0.001	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
Cat130.003	0.003	0.000	1.00	0.00	0.00	1% AEP, 45 min burst, Storm 8
Cat 14	0.001	0.001	0.000	1.00	0.00	0.00 1% AEP, 45 min burst, Storm 8
Cat 15	0.001	0.001	0.000	1.00	0.00	0.00 1% AEP, 45 min burst, Storm 8
Cat 16	0.001	0.001	0.000	1.00	0.00	0.00 1% AEP, 45 min burst, Storm 8

PIPE DETAILS

NameMax Q	Max V	Max U/	'S	Max D/	S	Due to Storm
(cu.m/s	s)	(m/s)	HGL (m)	HGL (m)	
Pipe 22	0.009	1.71	52.125	51.890	1% AEP,	45 min burst, Storm 8
Pipe 25	0.021	1.21	51.788	51.787	1% AEP,	45 min burst, Storm 8
Pipe 26	0.003	0.78	51.048	51.029	1% AEP,	2 hour burst, Storm 6
Pipe 27	0.004	0.78	51.029	50.769	1% AEP,	2 hour burst, Storm 6
Pipe29	0.006	2.66	50.735	49.627	1% AEP,	2 hour burst, Storm 6
Pipe 7	0.006	5.26	57.160	57.130	1% AEP,	45 min burst, Storm 8
Pipe 9	0.010	1.28	57.091	56.909	1% AEP,	45 min burst, Storm 8
Pipe 11	0.013	0.54	55.372	55.370	1% AEP,	45 min burst, Storm 8
Pipe 12	0.013	1.51	55.165	54.302	1% AEP,	45 min burst, Storm 8
Pipe 28	0.002	0.94	51.934	51.884	1% AEP,	2 hour burst, Storm 8
Pipe 1	0.001	4.71	57.220	57.145	1% AEP,	45 min burst, Storm 8
Pipe 2	0.002	6.94	57.090	57.036	1% AEP,	45 min burst, Storm 8
Pipe 3	0.003	1.53	56.996	56.934	1% AEP,	45 min burst, Storm 8
Pipe 4	0.004	1.18	56.897	56.663	1% AEP,	45 min burst, Storm 8
Pipe 5	0.005	1.40	56.580	56.498	1% AEP,	45 min burst, Storm 8
Pipe 6	0.006	1.70	54.344	54.277	1% AEP,	45 min burst, Storm 8
Pipe 8	0.003	8.60	57.221	57.165	1% AEP,	45 min burst, Storm 8
Pipe 10	0.003	0.69	55.466	55.415	1% AEP,	45 min burst, Storm 8
Pipe17	0.001	0.64	57.231	57.139	1% AEP,	45 min burst, Storm 8
Pipe18	0.002	8.02	57.090	57.027	1% AEP,	45 min burst, Storm 8
Pipe 19	0.003	1.22	56.987	56.932	1% AEP,	45 min burst, Storm 8
Pipe 20	0.004	0.56	56.916	56.887	1% AEP,	45 min burst, Storm 8
Pipe 21	0.012	1.35	56.747	55.551	1% AEP,	45 min burst, Storm 4
Pipe23	0.002	1.54	53.070	52.459	1% AEP,	1.5 hour burst, Storm 1
Pipe 24	0.002	0.72	52.459	51.809	1% AEP,	1.5 hour burst, Storm 1
Pipe 13	0.003	6.40	57.223	57.165	1% AEP,	45 min burst, Storm 8
Pipe 14	0.004	4.65	57.099	57.053	1% AEP,	45 min burst, Storm 8
Pipe 15	0.005	0.80	57.016	56.918	1% AEP,	45 min burst, Storm 8
Pipe 16	0.006	0.81	56.898	56.887	1% AEP,	45 min burst, Storm 8

CHANNEL DETAILS

NameMax Q Max V Due to Storm

(cu.m/s) (m/s)

OVERFLOW ROUTE DETAILS

OVERNI EOVV NOOTE B	/L 1/ (1L3					
NameMax Q U/S	Max Q D/S	Safe Q	Max D	Max DxV	Max Width	Max V Due to
Storm						
OF8 0 0	2.299 0	0	0	0		

OF1	0	0	0.884	0	0	0	0
OF2	0	0	0.735	0	0	0	0
OF3	0	0	0.779	0	0	0	0
OF4	0	0	0.693	0	0	0	0
OF5	0	0	0.868	0	0	0	0
OF6	0	0	0.702	0	0	0	0
OF7	0	0	0.699	0	0	0	0

DETENTION BASIN DETAILS

NameMax W	L	MaxVo	l Max Q	Max Q	Max Q
		Total	Low Le	vel	High Level
Basin3	51.77	24.2	0.003	0.003	0.000
Basin1	53.63	23.4	0.002	0.002	0.000
Basin2	54.27	11.0	0.002	0.002	0.000

Run Log for Harris Drains Design 4.drn run at 10:04:44 on 15/11/2018 No water upwelling from any pit. Freeboard was adequate at all pits. Flows were safe in all overflow routes.

	DE DETAILS	F	Version 13		D	c .c.			- n			-	D. II.			D. 45 "	1.01.	D::::
Name	Туре	Family			Pressure		Max Pond		Block	_	X	У	Bolt-do	wrid		Part Full	Inflow	Pit is
					Change	Elev (m)	Depth (m		Facto	r			lid			Shock Los	Hydrogra	oh
				(cu.m)	Coeff. Ku			(cu.m/	•					-				
Pit1		-	TSA Single	•		52.85			0	_	69945.3			-		1 x Ku	No	New
Pit2	Sag	Transport	TSA Single	10	1.8	52.6	0.15		0	0.5				_		1 x Ku	No	New
N2	Node					52.5			0		69954.1			_	68		No	
N3	Node					52			0		69941.1				71		No	
Outlet	Node					50			0		69944.7				54		No	
DP7			Downpipe		5.9	57.6			0	0						1 x Ku	No	New
DP9			Downpipe		1.4	57.6			0	0						1 x Ku	No	New
DP11	OnGrade	Downpipe	Downpipe		5.9	57.3			0	0			_			1 x Ku	No	New
DP12	OnGrade	Downpipe	Downpipe		1.8	57			0	0	69937.1	.5 -2525.	07 No		9	1 x Ku	No	New
DP1	OnGrade	Downpipe	Downpipe		5.9	57.6			0	0	69919	7 -2503.	14 No		14	1 x Ku	No	New
DP2	OnGrade	Downpipe	Downpipe		4.9	57.6			0	0	69924.7	9 -2494.	53 No		10	1 x Ku	No	New
DP3	OnGrade	Downpipe	Downpipe		1.4	57.6			0	0	69932	3 -2498.	98 No		11	1 x Ku	No	New
DP4	OnGrade	Downpipe	Downpipe		1.3	57.3			0	0	69939.8	2 -2503.	42 No		12	1 x Ku	No	New
DP5	OnGrade	Downpipe	Downpipe		1.1	57			0	0	69947.3	3 -2507.	86 No		13	1 x Ku	No	New
DP6	OnGrade	Downpipe	Downpipe		1.8	57			0	0	69942.2	4 -2516.	47 No		17	1 x Ku	No	New
DP8	OnGrade	Downpipe	Downpipe		4.3	57.6			0	0	69927.2	1 -2507.	58 No		15	1 x Ku	No	New
DP10	OnGrade	Downpipe	Downpipe		3.3	55.8			0	0	69934.7	3 -2512.	03 No		16	1 x Ku	No	New
DP17	OnGrade	Downpipe	Downpipe		1.5	57.6			0	0	69935.9	3 -2475.	96 No		18	1 x Ku	No	New
DP18			Downpipe		4.4	57.6			0	0	69944.5	4 -2481.	05 No		19	1 x Ku	No	New
DP19	OnGrade	Downpipe	Downpipe		1.9	57.6			0	0	69953.1	.5 -2486.	14 No		20	1 x Ku	No	New
DP20			Downpipe		1	57.6			0	0						1 x Ku	No	New
DP21			Downpipe		1.8	57.6			0	0						1 x Ku	No	New
N1	Node					53.15			0		69971.3				64		No	
DP13		Downnine	Downpipe		3.7	57.6			0	0			3.3 No			1 x Ku	No	New
DP14			Downpipe		2.9	57.6			0	0			_			1 x Ku	No	New
DP15			Downpipe		0				0	0	69945					1 x Ku	No	New
DP16			Downpipe		1.2	57.6			0	0		7 -2465.				1 x Ku	No	New
	ON BASIN I		Downpipe		1.2	37.0			O	U	05555	7 2405.	33 140			1 X Ku	140	140.00
			- N - A I I	-1 01	T 1/	D:-/	\ C+	DI D:		Die T					-	DI (^ . I	
Name	Elev		ea Not Use		Tyr K	Dia(m			t Family	PIT I			,	HED	C	rest RL (Crest Leng	ıa
Basin3	5			Orifice			40	51			(9951.83	-2501.36	No				
	51.																	
	51.	31.2	25															
Basin1	51.	9 13	.5	Orifice			27	52				9939.62	-2525.1	No				
	52.2	7 13	.5															
	52.6	4 13	.5															
	53.0	1 13	.5															
	53.3		-															
	53.7																	
Basin2	53.0		9	Orifice			27	53.25				9967.17	-2469.25	No				
DaSIIIZ		-	-	Offfice			21	J3.23				11.10650	-2409.25	INU				
	53.4		9															
	53.9		9	-														
	54.3		9															
	54.8	1	9															

PIPE DET	AILS													
Name	From	То	Length	U/S IL	D/S IL	Slope	Туре	Dia	I.D.	Rough	Pipe Is	No. Pipes	Chg From	At Chg
			(m)	(m)	(m)	(%)		(mm)	(mm)					
Pipe 22	Pit1	Pit2	11.403	52.074	51.824	2.19	Concrete,	150	150	0.013	New	1	Pit1	(
Pipe 25	Pit2	Basin3	3.781	51.6	51.5	2.64	Concrete,	150	150	0.013	NewFixed	1	Pit2	(
Pipe 26	Basin3	N2	2.743	51	50.95	1.82	Concrete,	100	100	0.013	NewFixed	1	Basin3	(
Pipe 27	N2	N3	24.864	50.95	50.701	1	Concrete,	100	100	0.013	New	1	N2	(
Pipe29	N3	Outlet	5.566	50.701	49.593	19.91	uPVC, not	100	105	0.012	New	1	N3	(
Pipe 7	DP7	DP9	8.726	57.143	57.056	1	uPVC, not	150	154	0.012	New	1	DP7	(
Pipe 9	DP9	DP11	8.726	57.026	56.843	2.1	uPVC, not	150	154	0.012	New	1	DP9	(
Pipe 11	DP11	DP12	8.726	55.246	55.159	1	uPVC, not	225	242	0.012	New	1	DP11	(
Pipe 12	DP12	Basin1	2.478	54.3	54.2	4.04	uPVC, not	100	105	0.012	NewFixed	1	DP12	(
Pipe 28	Basin1	N3	1.891	51.9	51.85	2.64	uPVC, not	90	86	0.012	NewFixed	1	Basin1	(
Pipe 1	DP1	DP2	10	57.212	57.112	1	uPVC, not	90	86	0.012	New	1	DP1	(
Pipe 2	DP2	DP3	8.726	57.082	56.995	1	uPVC, not	90	86	0.012	New	1	DP2	(
Pipe 3	DP3	DP4	8.726	56.965	56.877	1.01	uPVC, not	90	86	0.012	New	1	DP3	(
Pipe 4	DP4	DP5	8.726	56.847	56.612	2.69	uPVC, not	90	86	0.012	New	1	DP4	(
Pipe 5	DP5	DP6	10	56.543	56.443	1	uPVC, not	150	154	0.012	New	1	DP5	(
Pipe 6	DP6	Basin1	9.018	54.3	54.2	1.11	uPVC, not	100	105	0.012	NewFixed	1	DP6	(
Pipe 8	DP8	DP9	10	57.212	57.112	1	uPVC, not	90	86	0.012	New	1	DP8	(
Pipe 10	DP10	DP11	10	55.412	55.312	1	uPVC, not	90	86	0.012	New	1	DP10	(
Pipe17	DP17	DP18	10	57.212	57.112	1	uPVC, not	90	86	0.012	New	1	DP17	(
Pipe18	DP18	DP19	10	57.082	56.982	1	uPVC, not	90	86	0.012	New	1	DP18	(
Pipe 19	DP19	DP20	9	56.952	56.862	1	uPVC, not	90	86	0.012	New	1	DP19	(
Pipe 20	DP20	DP21	9	56.832	56.742	1	uPVC, not	100	105	0.012	New	1	DP20	(
Pipe 21	DP21	Basin2	5.054	55.5	55.45	0.99	uPVC, not	100	105	0.012	NewFixed	1	DP21	(
Pipe23	Basin2	N1	4.89	53.05	52.427	12.74	uPVC, not	90	86	0.012	NewFixed	1	Basin2	(
Pipe 24	N1	N2	35.516	52.427	51.777	1.83	Concrete,	100	100	0.013	New	1	N1	(
Pipe 13	DP13	DP14	10	57.212	57.112	1	uPVC, not	90	86	0.012	New	1	DP13	(
Pipe 14	DP14	DP15	9	57.082	56.992	1	uPVC, not	100	105	0.012	New	1	DP14	(
Pipe 15	DP15	DP16	10	56.962	56.862	1	uPVC, not	150	154	0.012	New	1	DP15	(
Pipe 16	DP16	DP21	10	56.832	56.732	1	uPVC, not	150	154	0.012	New	1	DP16	(

OVERFLO	OW ROUTE	DETAILS														
Name	From	То	Travel	Spill	Crest	Weir	Cross	Safe Dept	SafeDeptl	Safe	Bed	D/S Area		id		
			Time	Level	Length	Coeff. C	Section	Major Sto	Minor Sto	DxV	Slope	Contribut	ing			
			(min)	(m)	(m)			(m)	(m)	(sq.m/sec	(%)	%				
OF8	Pit1	Pit2	0.1				10 m road	0.3	0.15	0.6	2.21	0		75		11.3
OF1	DP2	Pit1	0.1				10 m road	0.3	0.15	0.6	23.06	0		45		20.6
OF2	DP3	Pit1	0.1				10 m road	0.3	0.15	0.6	33.69	0		46		14.1
OF3	DP4	Pit2	0.1				10 m road	0.3	0.15	0.6	29.75	0		47		15.8
OF4	DP5	Pit2	0.1				10 m road	0.3	0.15	0.6	38.6	0		48		11.4
OF5	DP17	Pit1	0.1				10 m road	0.3	0.15	0.6	23.51	0		50		20.2
OF6	DP18	Pit1	0.1				10 m road	0.3	0.15	0.6	37.11	0		51		12.8
OF7	DP19	Pit2	0.1				10 m road	0.3	0.15	0.6	36.76	0		52		13.6

PIPE COVI	ER DETAILS				
Name	Туре	Dia (mm)	Safe Cove	Cover (m)	
Pipe 22	Concrete,	150	0.6	0.6	
Pipe 25	Concrete,	150	0.6	-0.68	Unsafe
Pipe 26	Concrete,	100	0.6	-0.12	Unsafe
Pipe 27	Concrete,	100	0.6	1.18	
Pipe29	uPVC, not	105	0.3	0.3	
Pipe 7	uPVC, not	154	0.3	0.3	
Pipe 9	uPVC, not	154	0.3	0.3	
Pipe 11	uPVC, not	242	0.3	1.59	
Pipe 12	uPVC, not	105	0.3	-2.41	Unsafe
Pipe 28	uPVC, not	86	0.3	-0.09	Unsafe
Pipe 1	uPVC, not	86	0.3	0.3	
Pipe 2	uPVC, not	86	0.3	0.43	
Pipe 3	uPVC, not	86	0.3	0.33	
Pipe 4	uPVC, not	86	0.3	0.3	
Pipe 5	uPVC, not	154	0.3	0.3	
Pipe 6	uPVC, not	105	0.3	-2.41	Unsafe
Pipe 8	uPVC, not	86	0.3	0.3	
Pipe 10	uPVC, not	86	0.3	0.3	
Pipe17	uPVC, not	86	0.3	0.3	
Pipe18	uPVC, not	86	0.3	0.43	
Pipe 19	uPVC, not	86	0.3	0.56	
Pipe 20	uPVC, not	105	0.3	0.66	
Pipe 21	uPVC, not	105	0.3	-2.51	Unsafe
Pipe23	uPVC, not	86	0.3	-0.09	Unsafe
Pipe 24	Concrete,	100	0.6	0.6	
Pipe 13	uPVC, not	86	0.3	0.3	
Pipe 14	uPVC, not	105	0.3	0.41	
Pipe 15	uPVC, not	154	0.3	0.48	
Pipe 16	uPVC, not	154	0.3	0.61	

3.0 RETAINING WALL DESIGN

3.1 Retaining Wall Earth Pressure

Structure Classification: A

Limit state: U2/S1

Design life: 60 years (residential dwelling)

Maximum height of retaining wall: 2m with 1.8m fence on top.

Use Rankine Theory to determine resultant thrust from soil behind retaining wall.

1 layer under consideration

Layer 1 (0m-2m)

Soil friction, $\Phi = 20^{\circ}$ Soil cohesion, c = 0

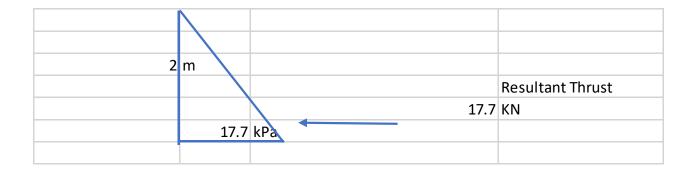
Soil density, $\gamma = 18 \text{ kN/m}$

At z=2m (first layer)

 σ_{z} = 36 Ka1 = 0.49 σ H = 17.7 kPa

Resultant Thrust in 1^{st} layer = 0.5*2*17.7 = 17.7kN

Resultant Thrust = 17.7 kN



3.2 Earthquake Loading

Acceleration, a = 0.1

Site factor, S = 1

aS = 0.1

As per tables I3 and I4 of AS4678

Design category = B_{er}

 Design for static loads, without further specific analysis for earthquake, is deemed to meet the requirements of this standard for earthquake design.

3.3 Other Retaining Wall Loads

DEAD LOADS

Fence = 0.5kN/m

Self weight of retaining wall = 10x 200x100 Concrete sleepers = 4.8kN/m

TOTAL DL = 5.3 kN/m

LIVE LOADS

Design LL as per AS4678 = 2.5kPa

TOTAL = 2.5kPa

3.4 Load Combinations

1.25G+1.5Q = 10.4kN/m (critical combination)

 $\Psi_c = 0.6$

 $1.25G+\Psi_cQ+W_u$ = 8.1kN/m

Feq = 0

 $1.25G+\Psi_cQ+1Feq$ = 8.1kN/m

3.5 Piers

Concrete sleepers to span 2m, Bending moment on 2m length of wall.

Ka = 0.49

γ = 18

H = 2m

Pmax = $Ka x \gamma x H$ = 17.6kPa

W = Pmax/2 x (H x Load width) = 35.3kN

BM = $w \times H/2$ = 35.3kNm

Brom's analysis for co	hesive soil						
DIGITS alialysis IOI CO	IIGSIVE SUII						
Applied Moment		Mult:=	35.28	kNm			
Generated at eccentric	cty	ecc:=	1.00	m			
F of S (overturning).		Fsot:	1.0				
Design moment	Mo	d:=Fsot.Mult					
		Md=	35.28	kNm			
Force at ecc		P:=Md÷ecc			P		λ
		P=	35.28	kN	T 1.		\
		Ø:=	0.8		<u> </u>		
Diameter of drilled pier	•	d:=	0.6	m		1.5d	\vdash
Soil cohesion at surface	ce	Øcu:=	15	kPa		H. I	
Max moment occurs at f:=F		P÷9.Øcu.d				$H \downarrow$	
		f =	0.436	m		HT	
		Mmax =	74.72	kNm			
	taking mor	ments about	of max mo	oment			7
M max:=P.(ecc					į.U	9Cu	V
Mmay∸2 3)5 d 9 Øcu		0.410				
L:= f+gg+1.5d				m			
		99	<u> </u>				
		L=	1.98	m			
Select de		L2:=	2.00				

Brom's analysis suggests the minimum required depth of the pier is 1.98m, we will select a 2m depth pier for a 2m high retaining wall.

3.6 Post Design

Table 1: Summary of retaining wall steel heights and requirements

Length btw posts	Effective Height	Design Height	Depth of footing	Max moment in column	Section	Capacity kNm	Pier dia.
2.0m	2.0m	2.0m	2.1m + 0.6m = 2.7m	74.72	200UB29.8OR 250PFC FOR CORNERS	90.9	0.6m
2.0m	1.8m	1.8m	2.0m+ 0.6m = 2.6m	56.48	200UB25.4 OR 250PFC FOR CORNERS	74.6	0.6m
2.0m	1.6m	1.6m	1.8m+ 0.6m = 2.4m	41.53	200UB18.2 OR 200PFC FOR CORNERS	51.8	0.6m
2.0m	1.4m	1.4m	1.6m+ 0.6m = 2.2m	29.50	150UB18.0 OR 150PFC FOR CORNERS	37.0	0.6m
2.0m	1.2m	1.2m	1.4m+ 0.6m = 2.0m	17.52	150UB14 OR 150PFC FOR CORNERS	21.0	0.45m
2.0m	1.0m	1.0m	1.2m+ 0.6m = 1.8m	11.0	150UB14 OR 150PFC FOR CORNERS	21.0	0.45m

NOTE: Add 0.6m to pier depth to allow for 600mm excavation on neighbouring property.

3.7 Concrete Sleeper Design 2m Length

H wall = 2000 mm (max)

General sleeper cover requirements

1km-50km from coast - B1 exposure class

- N32 concrete (40mm cover)

Check flexural strength

w = 17.7kN/m

 $w^* = 17.7/0.2m = 3.5kN/m$

 M^* = 1.8kNm Φ_b = 0.8

 $A_{st \, required} \qquad \qquad = \qquad \qquad f'_{\,c} \, x \, d \, / \, (1.2 \, x \, f_{sy}) \, x \, (b - V(b^2 - (2.4 \, x \, M^*) / (\Phi_b \, x \, f'_c \, x \, d)))$

= 89mm²

1 N12mm diameter bar required

Diametre of bar

 $A_{st} = 113 \text{mm}^2$

 $\Phi M_u = \Phi_b x f_{sy} x A_{st} x b x (1 - 0.6 x (A_{st} x f_{sy})/(b x d x f'_c))$

= 2.0kNm

 $\Phi M_u > M^*$ OK

Check shear strength

 $V^* = 3.5kN$ $\Phi_v = 0.7$

 $\beta_1 = 1.1 \times (1.6-100) = 1.7$

 $\beta_2 = \beta_3 = 1$

 $0.5* \ \Phi_v * V_{uc} \qquad = \qquad \qquad 0.5 \ x \ \Phi_v \ x \ \beta_1 \ x \ \beta_2 \ x \ \beta_3 \ x \ b \ x \ d \ x \ (A_{st} \ x \ f'_c \ / (b \ x \ d))^(1/3)$

= 4.3kN

$0.5* \Phi_v^* V_{uc} > V^*$ No shear reinforcement required

3.8 Fence Post to UB Connection

Weld fence post (50x50 SHS) to UB

Wind Load = 0.62kPa x 1.8m

= 1.1kN/m

Fence DL = 0.5kN/m

Fence LL = 1KN/m

1.2G+ΨQ+Wind= 1.7kN/m

Force on each post = 3.4kN/m

Weld 200x50x10 flat plate to post and flange of UB

Weld 200x50x10 flat plate to post and web of PFC

Apply structural purpose 3mm fillet weld = 0.417kN/mm

3.9 Retaining Wall Summary

Concrete sleepers to span 2m and be reinforced as below, 32MPa concrete.

Table 2: Summary of retaining wall concrete sleeper requirements

Retaining wall depth	Concrete Sleeper Length (mm)	Concrete Sleeper Depth (mm)	Concrete Sleeper Thickness (mm)	Reinforcement Requirements	Concrete Strength (MPa)
0-2m	2000	200	100	1N12	32

Table 3: Summary of retaining wall steel heights and requirements

Length btw posts	Effective Height	Design Height	Depth of footing	Max moment in column	Section	Capacity kNm	Pier dia.
2.0m	2.0m	2.0m	2.1m + 0.6m = 2.7m	74.72	200UB29.8OR 250PFC FOR CORNERS	90.9	0.6m
2.0m	1.8m	1.8m	2.0m+ 0.6m = 2.6m	56.48	200UB25.4 OR 250PFC FOR CORNERS	74.6	0.6m
2.0m	1.6m	1.6m	1.8m+ 0.6m = 2.4m	41.53	200UB18.2 OR 200PFC FOR CORNERS	51.8	0.6m
2.0m	1.4m	1.4m	1.6m+ 0.6m = 2.2m	29.50	150UB18.0 OR 150PFC FOR CORNERS	37.0	0.6m
2.0m	1.2m	1.2m	1.4m+ 0.6m = 2.0m	17.52	150UB14 OR 150PFC FOR CORNERS	21.0	0.45m
2.0m	1.0m	1.0m	1.2m+ 0.6m = 1.8m	11.0	150UB14 OR 150PFC FOR CORNERS	21.0	0.45m

NOTES

Please provide agricultural drain at the base of the retaining wall.

Add 0.6m to pier depth to allow for 600mm excavation on boundary.

NOTES & REQUIREMENTS

- Minimum pipe slope 1:200
- Refer to Gawler Council's standard Junction box/grated inlet pit details (drawing No: SK - 100).
- The contractor is to confirm all levels and invert levels on site to achieve appropriate falls. The levels have been taken from the site survey, levels may not be accurate.
- All down pipes to detention tanks are to be 100 Ø PVC and be connected as a wet system.
- PIT1: 600x600x600 concrete pit with galv grated cover.
- SEP1: 900x600x900 kerb entry pit. HC: Humeceptor model SCT2 or similar approved

RWT

RWT

150 Ø PVC

DT1: 25kL underground stormwater detention tank. Release to street through 40mm orifice. Client/builder to confirm loading and cover requirements for underground tank with manufacturer.

2x10kL detention tanks.

Release to street through 27mm orifice.

DP.

100mm wide stormwater channel under gate, connected into site stormwater system.

100 Ø at 1%

fall to SEP1

300mm wide concrete spoon drain-

DP

KELLYS ROAD

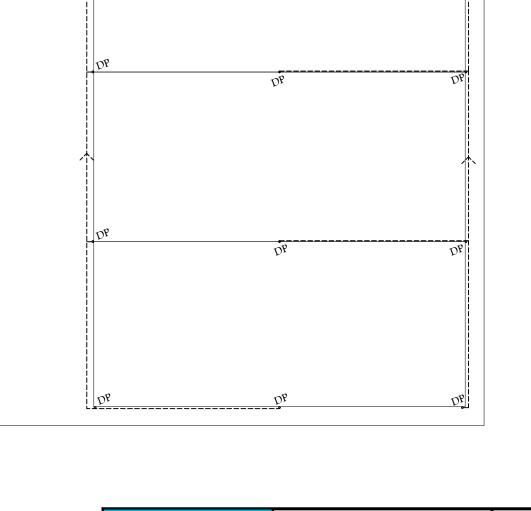
DT1

150 Ø at 2%

3x10kL detention tanks. Release to street through 27mm orifice. RWT RWT RWT DP DP DP

Discharge to street at 6L/s GL: 50.0

77 IL: 50.0



	SITE STORM WATER MANAGEMENT PLAN	CUEET.	04 -4 04
		SHEET:	01 of 01
■ ■■ HARNETT	CLIENT: THAUTO PTY. LTD.	JOB NUMBER:	HE16318
ENGINEERING	ADDRESS: LOT 13 KELLYS ROAD, WILLASTON, S.A. 5118	REVISION:	
	ADDRESS. LOT 13 RELETS ROAD, WILLASTON, S.A. 5110	DATE:	15/11/2018
		SCALE:	1 : 200 A3 Sheet
34 Main North Road Willaston S.A. 5118 Phone: 0402518871	e Copyright This drawing is subject to copyright and unauth of the copyright and unau	7or ofwh6h7r i	in part or full is approval.



Colorbond Wall cladding as selected on m.s. framing to future details.

Colorbond Custom Orb roof sheeting

on m.s. framing to future details.

BUILDING ELEMENT: Roof sheeting.

MATERIAL: Colorbond Custom Orb.

COLOUR: Gully

Top wall cladding.

Trim, flashing, capping.

Colorbond

Gully

Bottom wall cladding.

Colorbond

Dune Monument

Rain water head, gutter. Colorbond

Colorbond mild steel.

M.s. framed Colorbond m.s. plate. to suit advertising

Canopy. Door/window frames.

Colorbond aluminium frames.

Monument

Roll up doors.

Colorbond

Monument Black

Monument.

Tubular fencing/gates.

Painted tubular.

Gully

Screen fencing.

Colorbond Custom Orb.

AMENDED

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PROPOSED SHED/OFFICE DEVELOPMENT WITH CAR PARKING & LANDSCAPING. AMENDED APPLICATION:

THAUTO PTY LTD (ACN 116 782 748) LOT 13 KELLYS ROAD, WILLASTON, S.A.

ELEVATIONS UNITS 142:

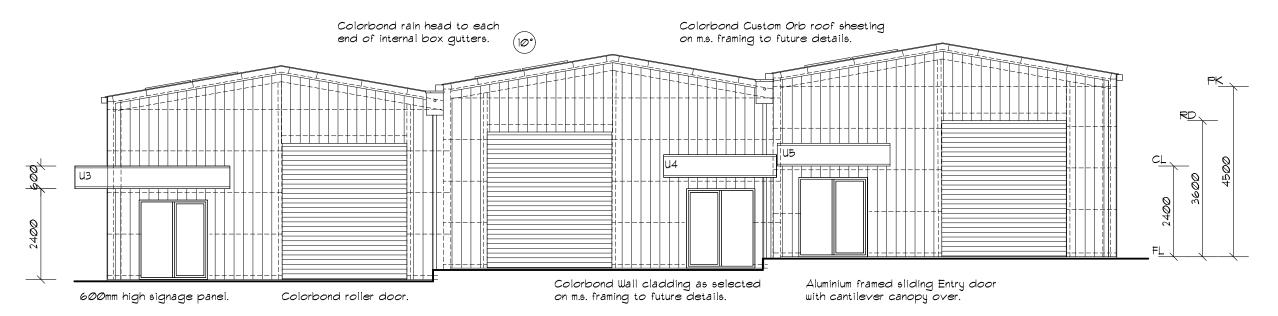
DWG: 5 OF 8 QD2Ø1735

Nov'17 1:100 Scale:

Client:

All dimensions are to be confirmed on site PRIOR to commencing any part of the works including ordering or purchasing materials. Written dimensions take preference to scaling the drawing. DO NOT SCALE the drawings. If in doubt contact the office.





ELEVATION 2: UNIT 3,4\$5

Solar panels to north face roof of each unit.

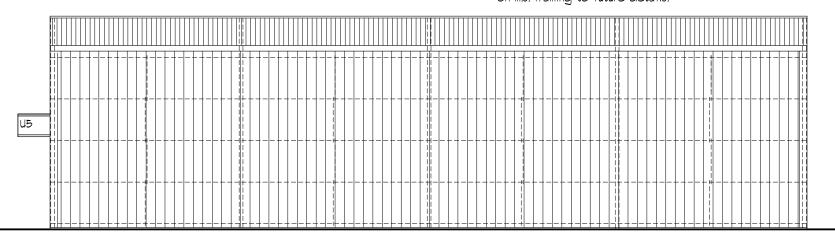
Translucent sheet to north face roof of each unit.

Colorbond rain head to each where shown to external gutter Unit 3.

2.4m high rendered power panel with F82 fabric behind.

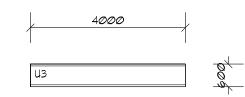
ELEVATION 1: UNIT 3

Colorbond Custom Orb roof sheeting on m.s. framing to future details.



Colorbond Wall cladding as selected on m.s. framing to future details.

Mild steel framed canopy over Entry doors. 4.0m long with 4.0m return to corner units (UI\$U3) 3.0m long located centrally over Entry doors generally.



Flat face advertising panel to be painted with unit number and business details to suit corporate or business colours.

ADVERTISING DETAIL:

MATERIAL: BUILDING ELEMENT: Roof sheeting.

Top wall cladding.

Canopy.

Bottom wall cladding.

Colorbond Custom Orb. Colorbond

M.s. framed Colorbond m.s. plate.

Gully Colorbond Dune

Trim, flashing, capping. Colorbond mild steel. Monument

Rain water head, gutter. Colorbond Monument

Door/window frames. Colorbond aluminium frames. Monument

Roll up doors. Colorbond Monument

Tubular fencing/gates. Painted tubular. Black

Screen fencing. Colorbond Custom Orb.

AMENDED

save paper: dont photocopy and post - scan and email:

COLOUR:

to suit advertising

Gully

Gully

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PROPOSED SHED/OFFICE DEVELOPMENT WITH CAR PARKING & LANDSCAPING. AMENDED APPLICATION:

THAUTO PTY LTD (ACN 116 782 748) LOT 13 KELLYS ROAD, WILLASTON. S.A.

ELEVATIONS UNITS 3-5: DWG: 6 OF 8

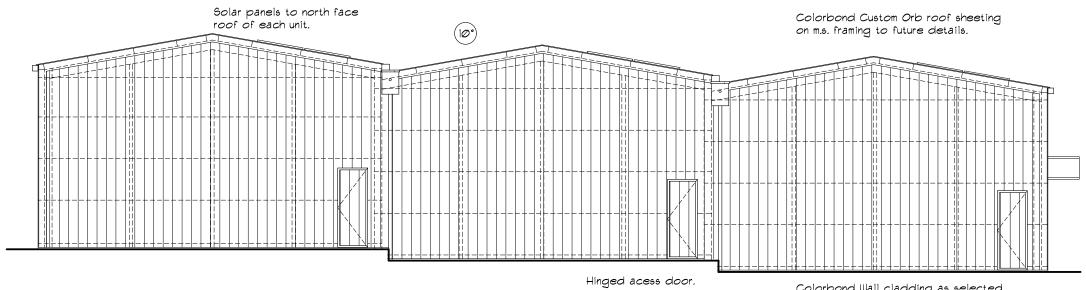
Date: QD2@IT35 Nov'17 Job No: Client:

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ELEVATION 3: UNIT 5



ELEVATION 4: UNIT 3,4 \$5

Colorbond Wall cladding as selected on m.s. framing to future details.



SECTION THRU: UNITS 3,4\$5

MATERIAL: BUILDING ELEMENT: COLOUR: Gully Roof sheeting. Colorbond Custom Orb. Top wall cladding. Colorbond Bottom wall cladding. Colorbond Dune Trim, flashing, capping. Colorbond mild steel. Monument Rain water head, gutter. Colorbond Monument Canopy. M.s. framed Colorbond m.s. plate. to suit advertising Door/window frames. Colorbond aluminium frames. Monument Roll up doors. Colorbond Monument Tubular fencing/gates. Painted tubular. Black Colorbond Custom Orb. Screen fencing. Gully

AMENDED

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PROPOSED SHED/OFFICE DEVELOPMENT WITH CAR PARKING & LANDSCAPING. AMENDED APPLICATION:

THAUTO PTY LTD (ACN 116 782 748) LOT 13 KELLYS ROAD, WILLASTON. S.A.

ELEVATIONS UNITS 3-5:

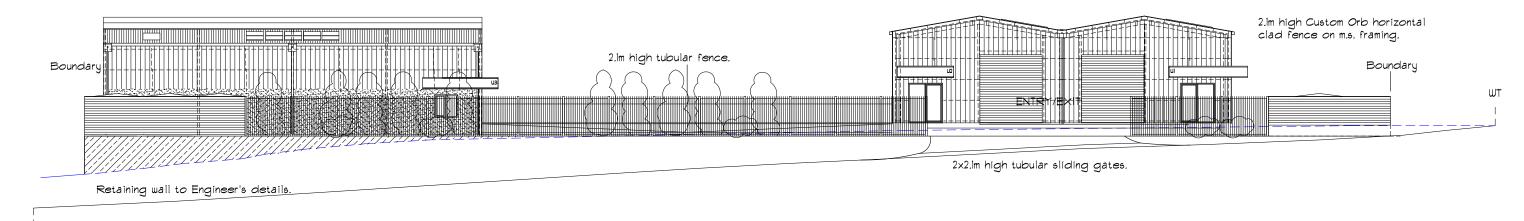
DWG: 7 ØF 8 QD2Ø1735

Nov'17 1:100 Date: Job No: Client:

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KELLYS ROAD ELEVATION: UNITS 1-3



REAR ELEVATION: UNITS 1,2 \$5

Concrete block domestic retaining wall on boundary to 1.0m high maximum.

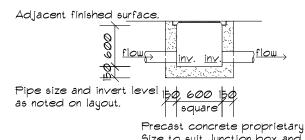




AMENDED

BUILDING ELEMENT: MATERIAL: COLOUR: Gully Roof sheeting. Colorbond Custom Orb. Top wall cladding. Colorbond Gully Bottom wall cladding. Colorbond Dune Trim, flashing, capping. Colorbond mild steel. Monument Rain water head, gutter. Colorbond Monument Canopy. M.s. framed Colorbond m.s. plate. to suit advertising Door/window frames. Colorbond aluminium frames. Monument Roll up doors. Colorbond Monument Tubular fencing/gates. Painted tubular. Black Screen fencing. Colorbond Custom Orb. Gully

Galvanised grated cover and frame. Size to suit Junction box and traffic.



Precast concrete proprietary sump. Size to suit Junction box and Pit.

JUNCTION BOX/PIT DETAIL.

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PROPOSED SHED/OFFICE DEVELOPMENT WITH CAR PARKING & LANDSCAPING.

THAUTO PTY LTD (ACN 116 782 748) LOT 13 KELLYS ROAD, WILLASTON. S.A.

COMBINED ELEVATIONS: DWG: 8 OF 8

Date: Job No: QD2Ø1735 Client:

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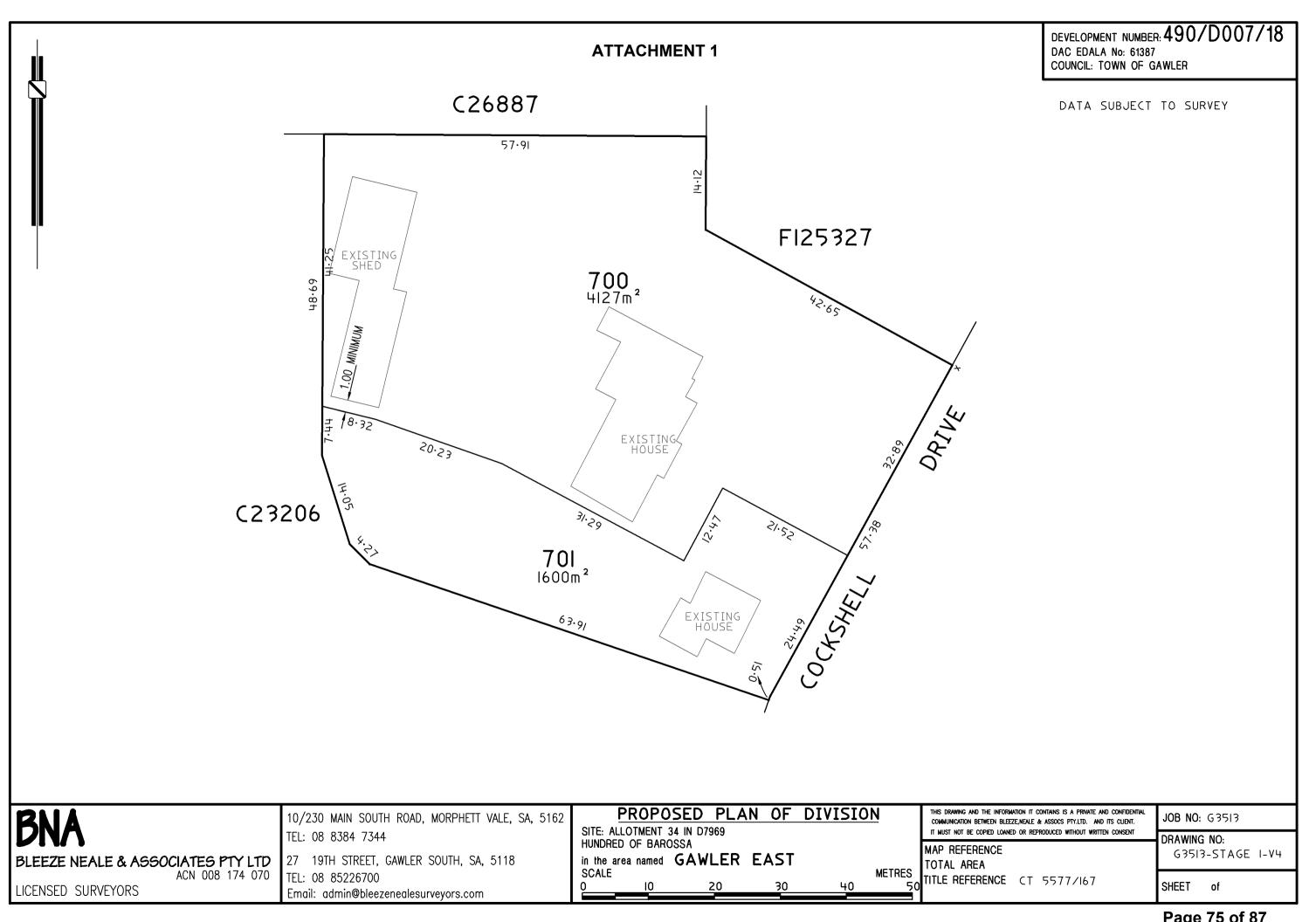
Page 7 dr of 87t in g. com. au

p.o. box 308 willaston. s.a. 5118

Town of Gawler Council Assessment Panel

ATTACHMENTS UNDER SEPARATE COVER Wednesday 30 January 2019

Item			Page No
5.3	Development Application:	490/219/2018	73
	Applicant:	BLEEZE NEALE & ASSOCIATES	
	Address:	17 Cockshell Drive GAWLER EAST 5118	
	Nature of Development:	Land Division - 1 into 2 Allotments	
	Attachment 1 -	Proposed Plan of Division	75
	Attachment 2 -	Planning Statement	76
	Attachment 3 -	Superseded/original Plan of Division	80



ATTACHMENT 2

28th November 2018

Scott Twine
Development Assessment Planner
Town of Gawler
PO Box 130
Gawler, SA 5118

Dear Scott,



PO Box 67, Springton SA 5235 p. 08 8568 2037 m. 0488 451 970 henri@regionalplanningdirections.com.au www.regionalplanningdirections.com.au

ABN 80 152 935 852

PROPOSED LAND DIVISION AT 17 COCKSHELL DRIVE GAWLER EAST (DA NO: 490/D007/18) – REQUEST FOR COUNCIL SUPPORT

I wish to follow up on our recent discussion in relation to the amended plan submitted on behalf of Mr Kevin Launer (my Client) and your intimation that you are still unable to support the proposal despite significant amendments to the plan and my supporting statement.

You suggested that the proposal did not represent an orderly allotment configuration but that you may be able to support a noncomplying development resulting in an allotment area less than 1,600 square metres and well below the 25 metres frontage in order to overcome your concerns.

We have given consideration to the current allotment configuration and the suggested noncomplying alternative. This correspondence outlines our response including the underlying rationale and reasoning for requesting that Council reconsider its opposition to the proposal.

Alternative Layout (Noncomplying)

I have considered the alternative of undertaking a noncomplying form of development as shown in figure 1 below. However, the suggested alternative would fall seriously short of the required average allotment size of 1,600 square metres and the minimum road frontage of 25m. Furthermore the existing dwelling is somewhat run down and the shape of the noncomplying alternative would not be conducive to a future replacement dwelling due to the narrow allotment configuration. I am reluctant to support such a proposal on grounds that it would not be consistent with the Desired Character for the Wheatsheaf Policy Area and does not represent orderly development.

Current Proposed Land Division

The current amended proposal (see Figure 1 below) seeks to achieve relative parity with the requirements for the Wheatsheaf Policy Area. The proposal meets the average allotment size requirement of 2,000 square metres, the minimum requirement of 1,600 square metres for lot 701, and meets the 25m minimum frontage requirement.

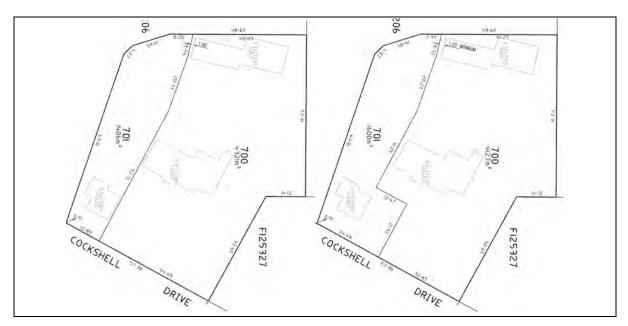


Figure 1: Alternative Noncomplying

Current Proposed

A closer analysis of allotment configurations in the locality has been undertaken. Figure 2 below shows the cadastral layout of allotments in the locality and highlights a number of examples where parts of allotments are tucked in behind portions of adjoining allotments. The current proposed land division layout has been overlaid and provides a visual comparison with the layout and configuration of allotments in the locality.

A number of examples are brought to your attention as follows:

- Three Community Lots adjoin the rear of my Client's property are in effect tucked behind the subject land in a series of irregular allotments to suit the topography, and the position of dwellings;
- The northern boundary of the subject land has a kink in the boundary partly tucked behind the adjoining lot 1;
- Two allotments opposite the subject land, with one being a hammerhead allotment, have kinks in the boundary;
- Two allotments including one at the front and a hammerhead to the rear located on the eastern side of Cockshell Drive at the southern end of the locality has a similar rectangular boundary section to what is proposed;
- Numerous hammerhead configurations with similar tucked boundaries exist throughout the locality

The above demonstrates the locality is an area where different allotment configurations can vary from the normal rectangular configurations is consistent with the established character. This is reflective in part due to the topography, the re-subdivision of larger allotments, and some of which contain more than one dwelling as is the case with my Client's proposal.

Furthermore, the dimensions of the rectangular front portion of the proposed lot 701 provides a more suitable site for constructing a new dwelling as the existing older dwelling is reaching a stage where redevelopment is becoming more likely.

3

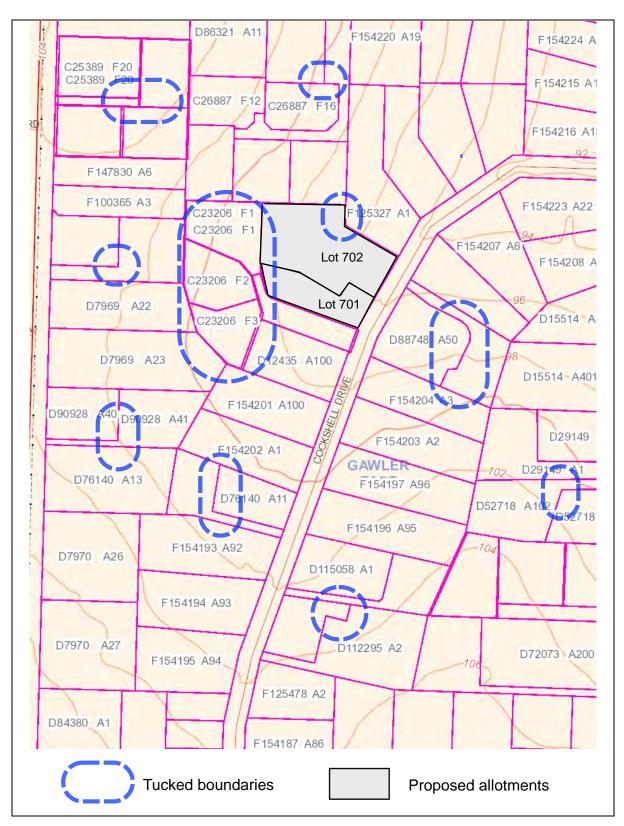


Figure 2 Examples of similar boundary configurations in the locality

In my opinion the main tests for whether or not the proposal represents an orderly and economic form of development relates to the adequacy of infrastructure and the suitability of the dimensions of the allotment for residential purposes. Firstly the proposal would not result in the provision of additional infrastructure as it has the benefit of existing infrastructure and as such would be economic. Secondly the proposal provides a rectangular portion towards the front of Lot 701 that meets the requirements for residential allotments outlined in Principle 234 (a) (b) (c) and the associated Design Technique 234.1 (a) (b) in the General Provisions for the Town of Gawler. The inclusion of a rectangle as is the case in the current proposal is consistent with what has been envisaged for residential development. At the same time the provisions for the Wheatsheaf Policy Area are respected in the proposal.

Conclusion

I am reluctant to support the noncomplying alternative allotment configuration favoured by the Council as it falls seriously short of the Wheatsheaf Policy Area provisions.

A closer analysis of allotment configurations within the locality has highlighted significant variations in allotments configurations with numerous example of boundaries and allotments tucked behind adjoining allotment boundaries. The necessity of such variations is due to a combination of topography, the re-subdivision of larger allotments, and, as in the case of my Client, the need to provide separate allotments for two existing dwellings.

The analysis of allotments shows that the proposal at hand is no different in character to numerous other allotments in the locality whilst at the same time providing a larger front portion more readily able to accommodate a replacement dwelling.

In view of the above it is requested that Council reconsider its current opposition to the proposal.

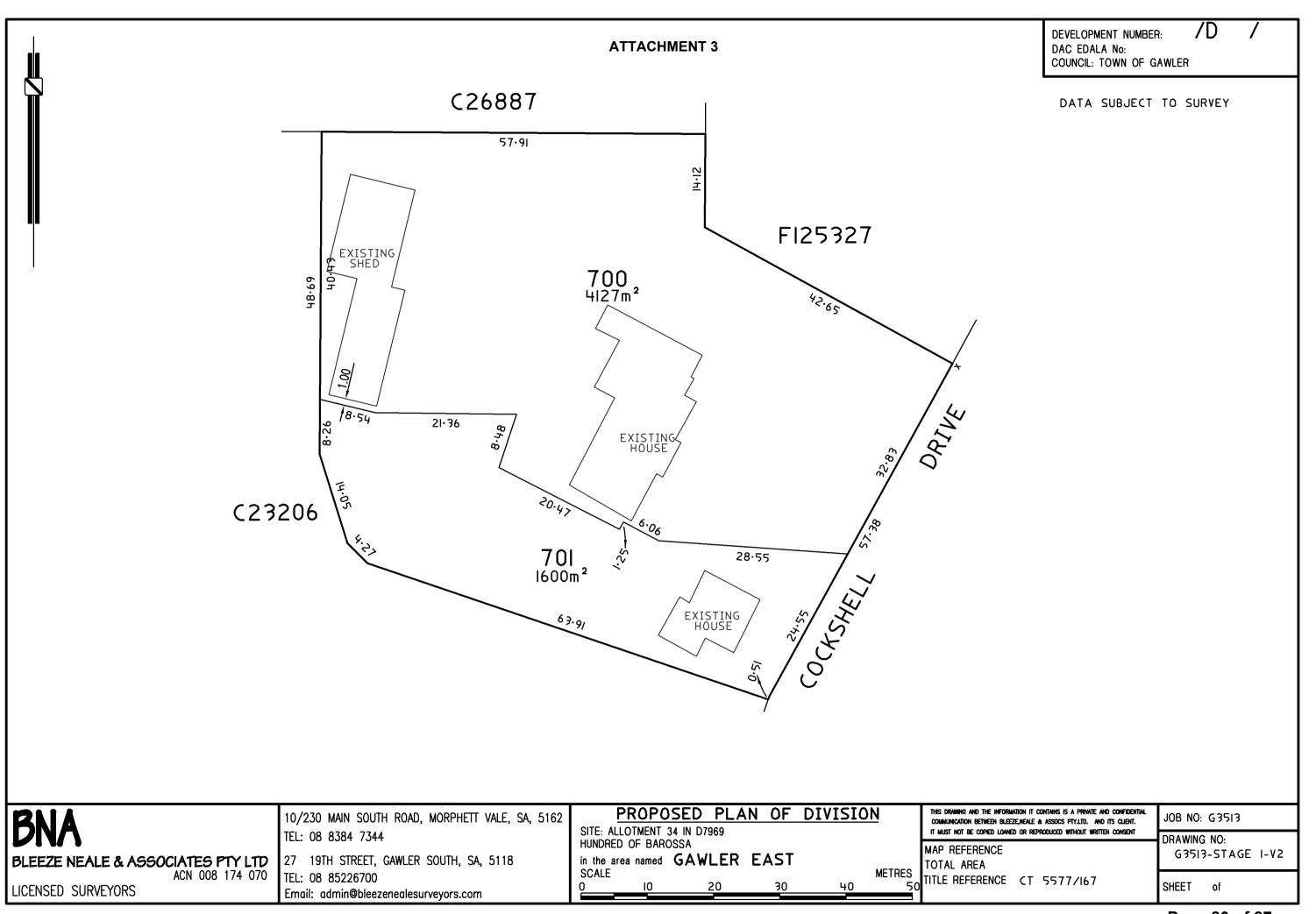
Should you require additional information or have any questions in relation to the proposal please do not hesitate to contact me on 08 85682037 or 0488451970 or via email on henri@regionalplanningdirections.com.au

Yours faithfully

Henri Mueller BA (Plan), Grad. Dip. (RUP), M (Env. St.), MPIA

DIRECTOR – Regional Planning Directions

2.12

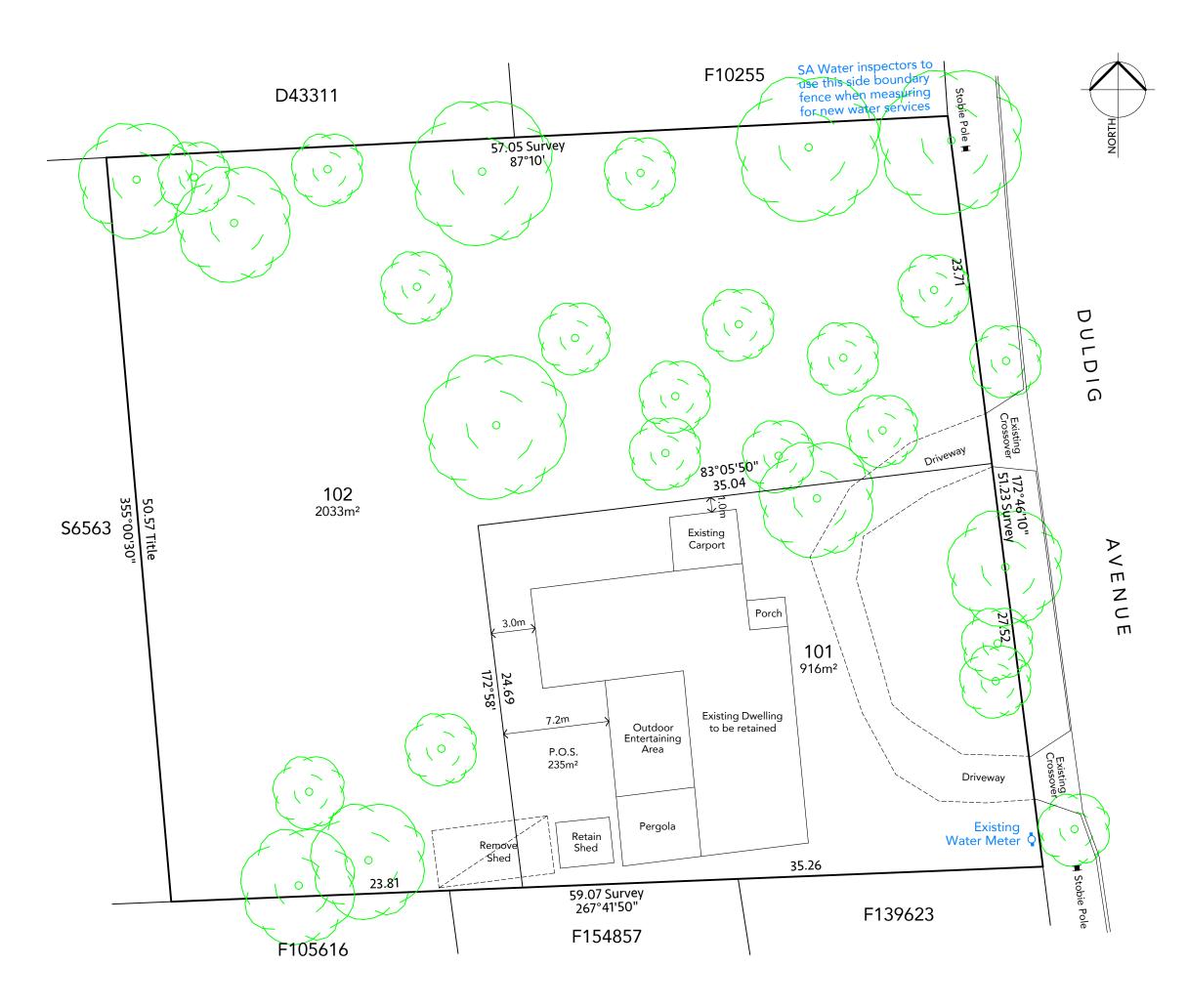


Town of Gawler Council Assessment Panel

ATTACHMENTS UNDER SEPARATE COVER Wednesday 30 January 2019

Item	1		Page No
5.4	Development Application:	490/341/2018	81
	Applicant:	R G CALLOW	
	Address:	6 Duldig Avenue GAWLER EAST 5118	
	Nature of Development:	Land Division by Torrens Title (1 into 2)	
	Attachment 1 -	Application plans and documentation	83
	Attachment 2 -	Plan showing location of Significant tree	86
	Attachment 3 -	Indicative community title plan	87

ATTACHMENT 1



Land division application:

490 / D012 / 18

Town of Gawler

2949m² Total area of site: Area of reserve provided: No. of existing allotments: No. of proposed allotments: No. of additional allotments:

Subject land details:

Allotment 1 in F139787

Site Address: 6 Duldig Avenue Gawler East Suburb: Nuriootpa Hundred: Title(s): C.T. 5258 / 9

Annotations:

All measurements in metres unless shown otherwise. Do not scale drawing. Original sheet size is A3. All measurements are subject to survey and final plan of division. Always check the current certificate(s) of title for any easement(s) and annotations(s) that affect the

The existing dwelling is to be retained for this project. All other structures are to be demolished/removed as per the plan diagram. Owner or developer to apply to Council for demolition approval (if required).

Owner or developer to alter the existing private internal sewer drains and/or water pipes. As-constructed diagram by licensed plumber to be submitted to OTR and SA Water before application proceeds to the Lands

AMENDED

SA Water Contact Details Amanda Mitchell Zaina Stacey Pty Ltd Phone 8379 7979



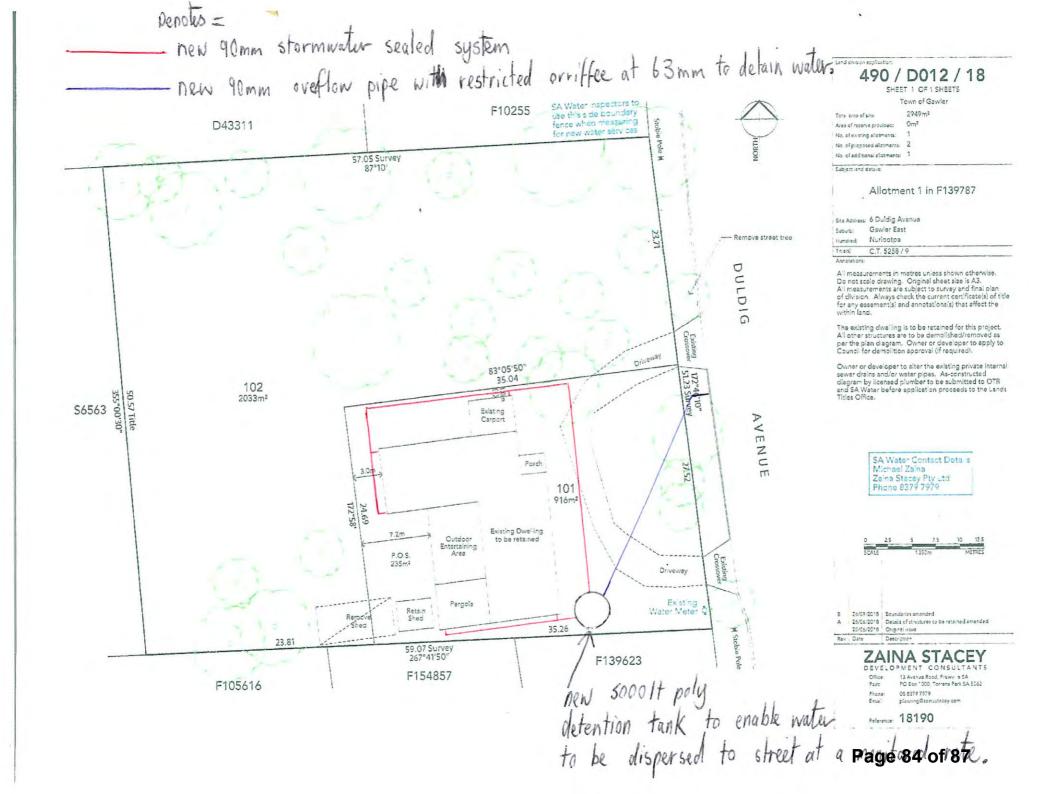
C B A	19/12/2018 26/09/2018 26/06/2018 25/06/2018	Street tree removal notation removed Boundaries amended Details of structures to be retained amended Original issue
Rev.	Date	Description

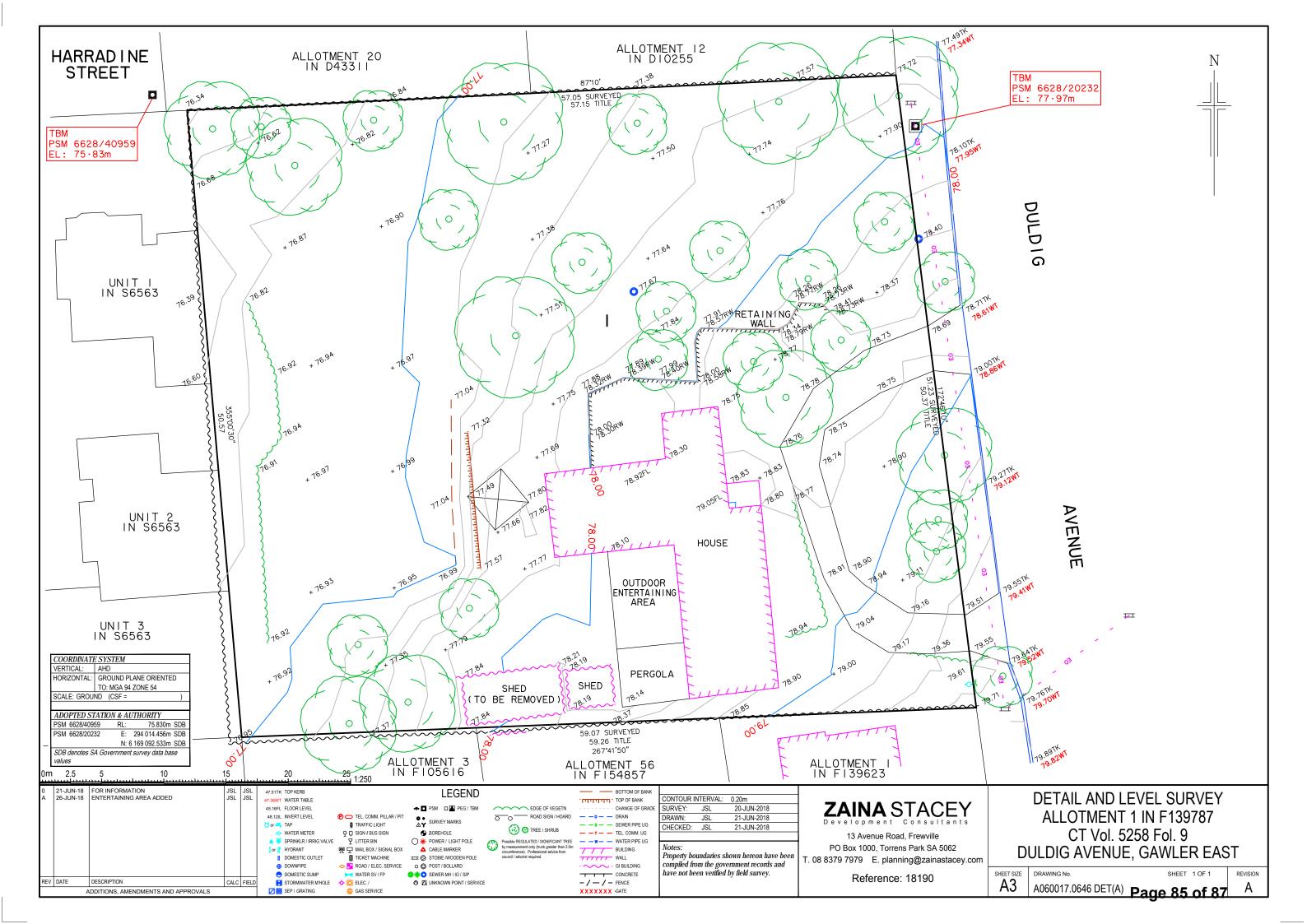
ZAINA STACEY

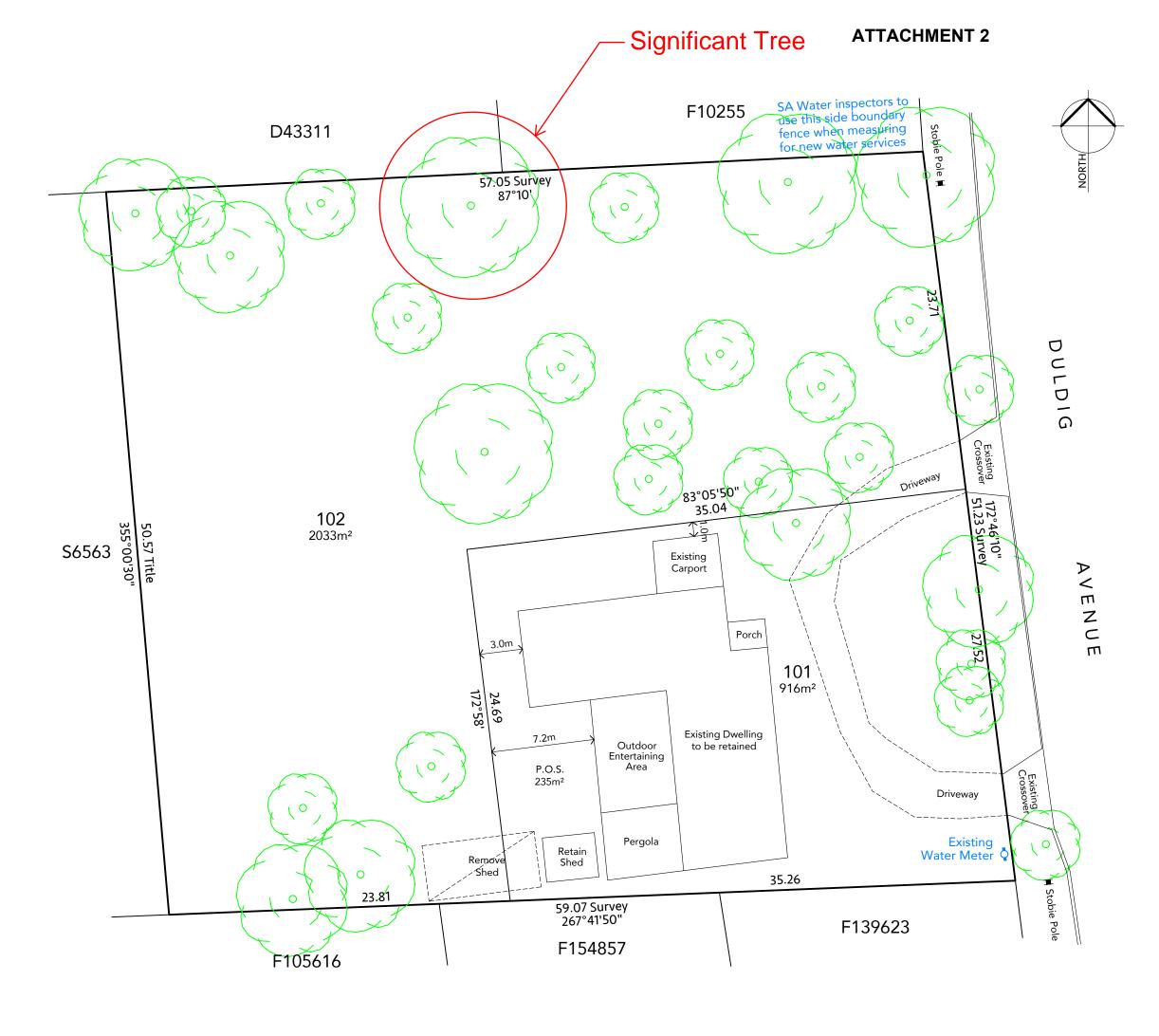
Office: 13 Avenue Road, Frewville SA PO Box 1000, Torrens Park SA 5062 Post:

08 8379 7979 Phone: planning@zainastacey.com Email:

Reference: 18190
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Land division application:

490 / D012 / 18

Town of Gawler

2949m² Total area of site: Area of reserve provided: No. of existing allotments: No. of proposed allotments: No. of additional allotments:

Subject land details:

Allotment 1 in F139787

Site Address: 6 Duldig Avenue Gawler East Suburb: Nuriootpa Hundred: Title(s): C.T. 5258 / 9

Annotations:

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The existing dwelling is to be retained for this project. All other structures are to be demolished/removed as per the plan diagram. Owner or developer to apply to Council for demolition approval (if required).

Owner or developer to alter the existing private internal sewer drains and/or water pipes. As-constructed diagram by licensed plumber to be submitted to OTR and SA Water before application proceeds to the Lands Titles Office.

> **SA Water Contact Details** Amanda Mitchell Zaina Stacey Pty Ltd Phone 8379 7979



С	19/12/2018	Street tree removal notation removed
В	26/09/2018	Boundaries amended
Α	26/06/2018	Details of structures to be retained amended
	25/06/2018	Original issue
Rev.	Date	Description

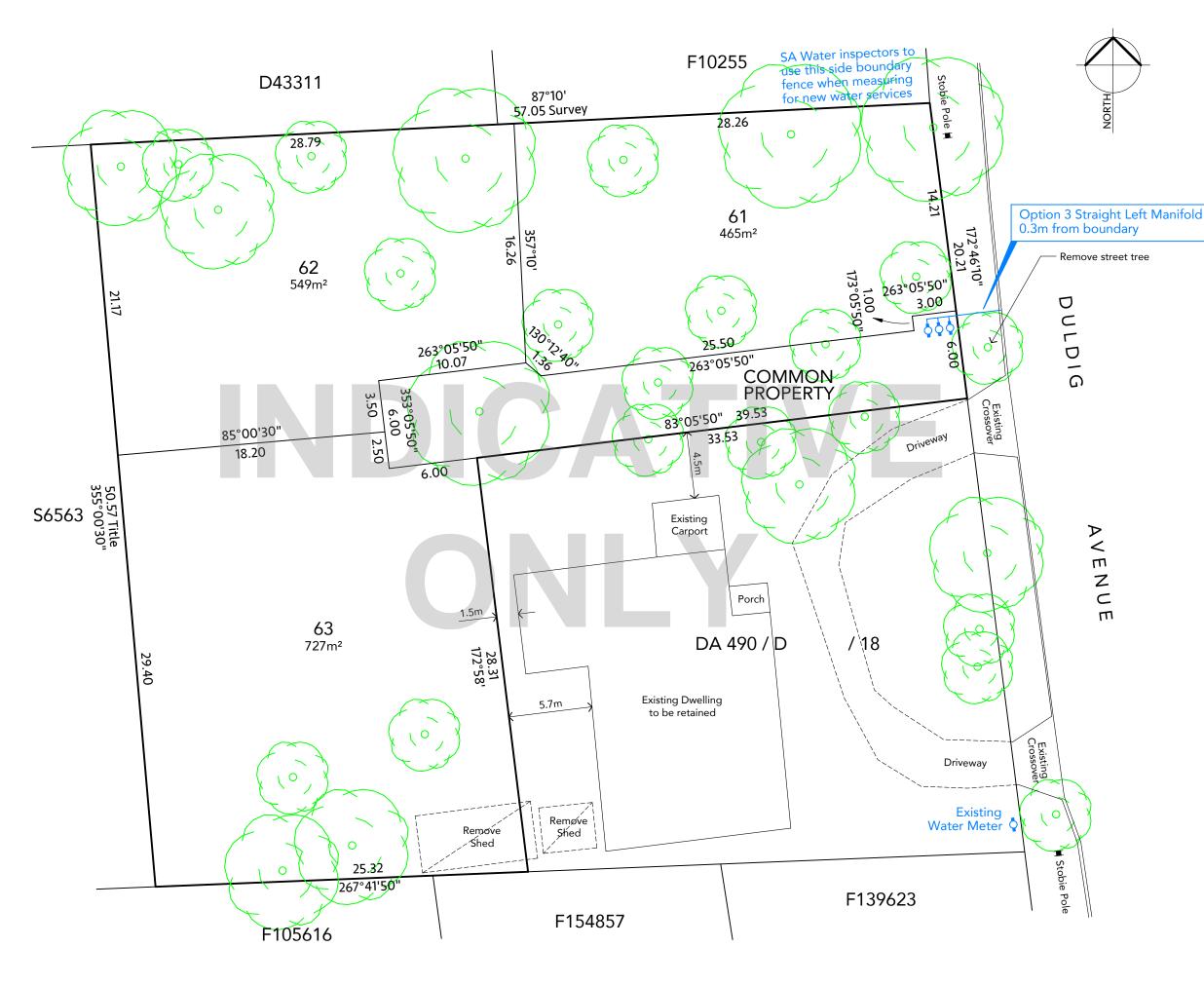
ZAINA STACEY

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Reference: 18190
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ATTACHMENT 3



Land division application: 490 / C / 18 SHEET 1 OF 1 SHEETS Town of Gawler 1953m² Total area of site: Area of reserve provided: No. of existing allotments: No. of proposed allotments: No. of additional allotments: 2 Subject land details: Allotment 102 in 490/D /18 Site Address: 6 Duldig Avenue Gawler East Suburb:

Title(s): Annotations:

Hundred:

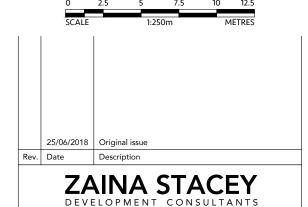
Nuriootpa

Portion of C.T. 5258 / 9

All measurements in metres unless shown otherwise. Do not scale drawing. Original sheet size is A3. All measurements are subject to survey and final plan of division. Always check the current certificate(s) of title for any easement(s) and annotations(s) that affect the

The purpose of the common property is for access and provision of services.

> **SA Water Contact Details** Michael Zaina Zaina Stacey Pty Ltd Phone 8379 7979



Office: 13 Avenue Road, Frewville SA

PO Box 1000, Torrens Park SA 5062 Post: 08 8379 7979 Phone: planning@zainastacey.com

Email:

Reference: 18191
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