

Carson, Lucia

From: Carson, Lucia
Sent: Monday, 17 November 2014 2:50 PM
To: Jatheendran, Lingam
Subject: FW: Stormwater Study
Attachments: Rivett Stormwater Investigation Rev 1 (2) Dated May 2014.pdf

Afternoon Lingam,

Above is the Rivett Block 13 Section 38 Stormwater Investigation Report, which was forwarded to you on 10 November 2014. Have you had a chance to look at the report?

Kind regards,

Lucia Carson | Project Officer
Urban Renewal | Land Development Agency
Chief Minister, Treasury & Economic Development Directorate
Level 7 TransACT House | 470 Northbourne Avenue | DICKSON ACT 2602
T: 6207 9604 | F: 6207 7324 | E: lucia.carson@act.gov.au

From: Carson, Lucia
Sent: Monday, 10 November 2014 3:56 PM
To: Jatheendran, Lingam
Subject: FW: Stormwater Study

Hi Lingam,

Please see attached the Stormwater Investigation Report for Rivett Block 13 Section 28. As you can see the report was forwarded to Frank on 9th July 2014, and as yet I do not appear to have received a reply. I would like to have your comments on the above report so that I can go forward with this site.

If you have any further questions regarding this site, please do not hesitate to contact me.

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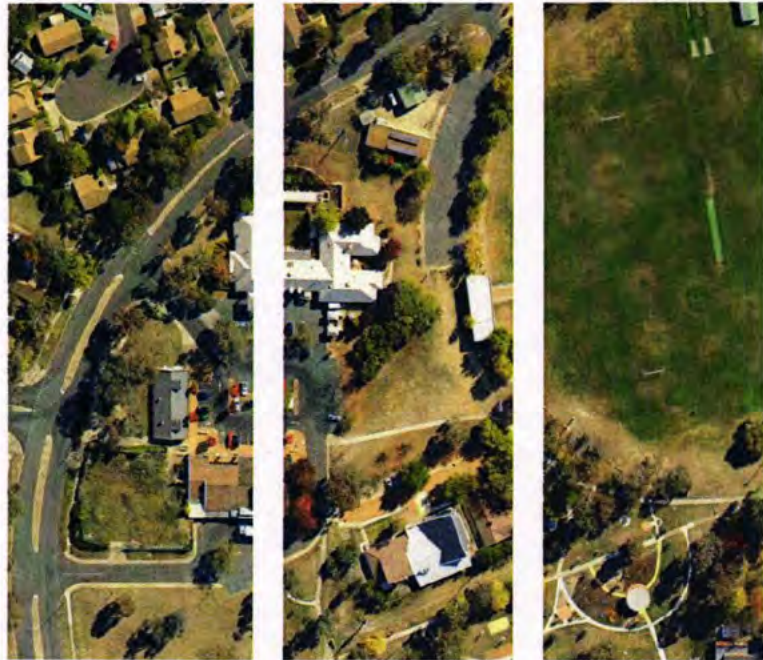
From: Carson, Lucia
Sent: Wednesday, 9 July 2014 3:24 PM
To: Yu, Frank
Subject: Stormwater Study

Frank,

Please find attached Stormwater Study for the Rivett Block 13 Section 28.

Regards,

Lucia Carson
Project Officer
Site Preparation
Land Development Agency
Economic Development Directorate
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Rivett Section 28 Block 13

Stormwater Investigation

May 2014

Land Development Agency



Rivett Section 28 Block 13



Mott MacDonald

Stormwater Investigation

May 2014

Land Development Agency

Issue and revision record

Revision	Date	Originator	Checker	Approver	Description
1	26/05/2014	MB	CO	MB	Draft

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This document contains confidential information and proprietary intellectual property. It should not be shown to other parties without consent from us and from the party which commissioned it.

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Appendix A. Plans

Executive Summary

Mott MacDonald has been engaged by the Land Development Agency to undertake an investigation of the potential implications of the existing stormwater overland flow path on Rivett Section 28 Block 13.

This report has been prepared in accordance with Mott MacDonald's fee proposal dated 11 April.

The findings of this investigation are as follows:

Site Survey

The survey confirms that overland flow will pond in the Rivett Place before spilling across the western kerb onto part of Block 13.

Catchment Flows

The catchment area of 13.5 Ha is a mixture of public roads and existing residential development.

The 100 year ARI flow from the catchment is estimated to be 2.7 m³/s

The estimated 100 Year ARI flow at Block 13 in excess of the capacity of the pipe system is 0.5 m³/s.

Existing Overland Flow across Block 13

This assessment has found that the overland flow will overtop the western kerb and verge of Rivett Place over a length of approximately 40m and spill across the southern parts of Block 13 and the gravel carpark in the adjacent Block 14.

The overland flow would generally be broad sheet flow with minimal depth.

Option to Cater for Overland Flow

It appears feasible to provide a separate reserve at the southern end of Block 13 adjacent to Block 14 to accommodate overland flow.

This reserve could be shaped to accommodate both a path and overland flow.

Detailed design of this reserve would need to incorporate measures to minimise the reduction in developable land.

The existing kerb levels in Rivett Place adjacent to Block 13 would need to be adjusted to assist in the conveyance of the overland flow over a more restricted width than is currently the case.

The location and value of existing trees would need to be considered in the detail design of the reserve.

1. Background

1.1 Introduction

This report investigates the issues associated a stormwater overland flow path that currently crosses Rivett Section 28 Block 13. Block 13 is bound by :

- North – Existing community facilities building on Block 9 Section 28
- East – Rivett public oval and facilities on Block 4 Section 27
- South – Existing community facilities and associated gravel car park on Block 14 Section 28
- West – public infrastructure of Rivett Place and carpark serving Rivett local shops.

Figure 1.1: Rivett Section 28 Block 13 Aerial Photograph (^ North)



1.2 Previous SIR

The Site Investigation Report of July 2013 for Rivett Section 28 Block 13 identified a potential overland flow path through the block which may be a constraint on development. This overland flow path appears to be aligned through Block 13 from a low point in Rivett Place towards the oval to the east.

The overland flow path had been identified in the Site Investigation report on the basis of a visual assessment on site and contour information of the surrounding area shown on ACTMAPi.

The Site Investigation indicated that to comply with the Design Standards for Urban Infrastructure the overland flow paths should not cross block leases.

1.3 Purpose of Report

The purpose of this report is to assess the potential development implications of the existing stormwater overland flow paths on Block 13 in accordance with the Mott MacDonald Fee Proposal dated 11 April 2014 including the identification of one option to cater for the overland flow.

This investigation report will form an appendix to the main Site Investigation Report completed for this site in July 2013.

2. Stormwater Assessment

2.1 Topographic Survey

A site survey has been undertaken of Block 13 and surrounds. This survey has assisted in determining the path of the overland flow within both Rivett Place and Block 13. The survey confirms that in the event of flow in excess of the capacity of the stormwater pipes the overland flow will pond in Rivett Place before spilling across the western kerb onto part of Block 13. The survey provides accurate levels of the western kerb which assists in determining the width of flow across the kerb and onto Block 13.

Figure 2.1: Section of Rivett Place kerb adjacent to Block 13



2.2 Catchment

A review has been undertaken of existing catchment information including topographic plans and site visit, this check found :

- Catchment Area = 13.5Ha
- Catchment area is a mixture of public roads and existing residential development
- The catchment area is directly west of the Block 13 with the upper reaches of the catchment almost extending to Darwinia Terrace
- The main drainage path towards Block 13 is along Angophora and Pavonia Streets towards Bangalay Crescent into Rivett Place and the Rivett shops carpark.

Figure 2.1: Catchment Area (^ North)



2.3 100 Year ARI Flow

An assessment of the 100 year ARI flow has been carried out taking into account catchment size, land uses, slope of terrain etc. On this basis the 100 year ARI flow from the catchment is estimated to be 2.7 m³/s.

2.4 Overland Flow

Design Standards for Urban Infrastructure Part 1 Stormwater indicates that overland flow can be estimated on the basis of the "gap" flow ie the 100 year ARI flow less a proportion of the design capacity of the pipe system based on an assumed blockage factor.

The "gap" or overland flow directed towards Block 13 is reduced by the following :

- 900mm stormwater pipe in the carriageway of Bangalay Crescent serving the 13.5 Ha catchment.
- 450mm stormwater pipe serving the Rivett Place
- Bangalay Crescent / Rivett Place intersection which splits overland flows and partially diverts overland flow away from Rivett Place.

A blockage factor of 50% has been adopted in accordance the DUS stormwater design standard for both the 900mm and 450mm stormwater pipes.

Based on the grading of the Bangalay Crescent / Rivett Place intersection it is estimated that a majority (approximately 75%) of the overland flow in Bangalay Crescent falls towards Rivett Place and the Rivett shops carpark adjacent to Block 13. On this basis it is estimated that the 100 Year ARI flow in excess of the capacity of the pipe system is 0.5 m³/s at Block 13.

2.5 Extent of 100 Year ARI Flow

This assessment has found that the estimated overland flow of 0.5 m³/s will overtop the western kerb and verge of Rivett Place over a length of approximately 40m and spill across the southern parts of Block 13 and the adjacent Block 14. Block 14 contains an existing gravel carpark serving and adjacent community facility. The overland flow would generally be broad sheet flow with minimal depth. Flow across the kerb is expected to be less than 100mm in depth. Up to a 20m width of the southern end of Block 13 would be affected. The estimated extent of the 100 Year ARI flow on Block 13 is shown on the plan in Appendix A.

Figure 2.2: Overland Flow Path Block 13 & gravel carpark of Block 14



Figure 2.3: Block 14 including gravel carpark and community facilities



2.6 Option to Cater for Overland Flow

As part of a separate pedestrian assessment report for Block 13 TAMS required a new path along the southern boundary of the Block 13. TAMS also require that this path be located within a separate reserve of 6 metres minimum width. This reserve could be shaped to accommodate both a path and overland flow.

Detail design would need to be undertaken to determine the exact width of this reserve with the view to minimise the reduction in developable land taking into account :

- The western kerb levels of Rivett Place would need to be adjusted to assist in the conveyance of the overland flow over a more restricted width than is currently the case.
- Alignment of the path and shaped overland flow path would need to take into account the existing trees adjacent to the southern boundary of Block 13. It appears feasible to retain the existing high value tree and remove other trees in order to provide for an overland flow alignment close to the southern boundary of Block 13 thereby limiting the reduction in developable land. Discussion would be required with TAMS regarding the removal of these existing trees.

An indicative arrangement to accommodate overland flow in this manner is shown on plan in Appendix A.



Appendices

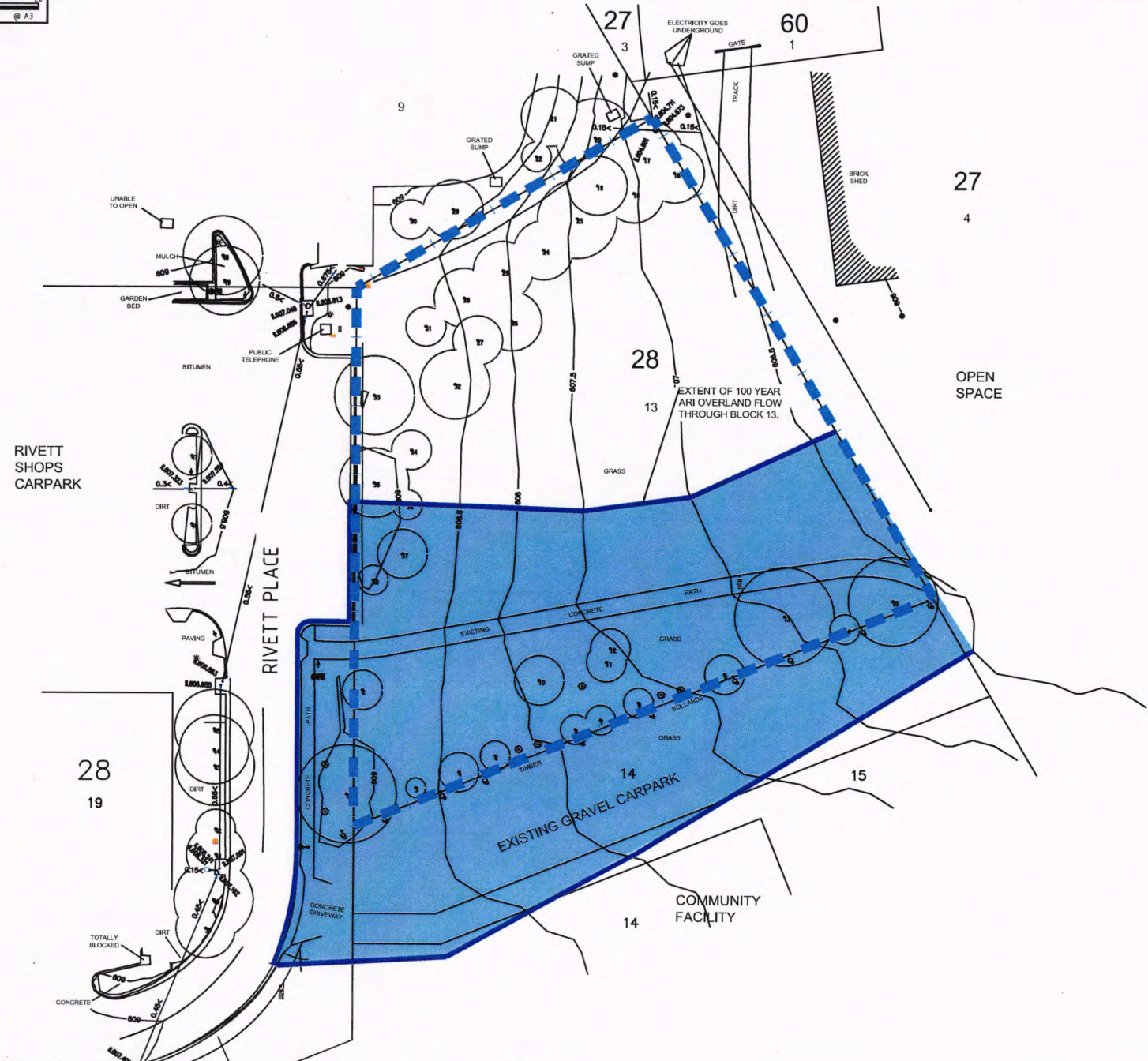
Appendix A. Plans



Appendix A. Plans

- A.1 Extent of Existing 100 Year ARI Overland Flow
- A.2 Option to Accommodate Overland Flow
- A.3 Existing Stormwater Pipe Layout Rivett

10 8 6 4 2 0
PLAN SCALE 1:400 @ A3



Notes

Key to symbols

EXISTING FEATURES

- 607 — EXISTING CONTOURS 0.5m INTERVALS
- — — — — BOUNDARY BLOCK 13
- Existing Trees (represented by circles with numbers)

Reference drawings

PI	Date	AV	Description	MB	MB
Rev		Drawn		Chkd	App'd

Level 6, SAP House
224 Bunkers Hill, Canberra City ACT 260
PO Box 224 Civic Square ACT 260
Australia
+61 (0)2 8253 1500
www.mottmac.com.au

Client

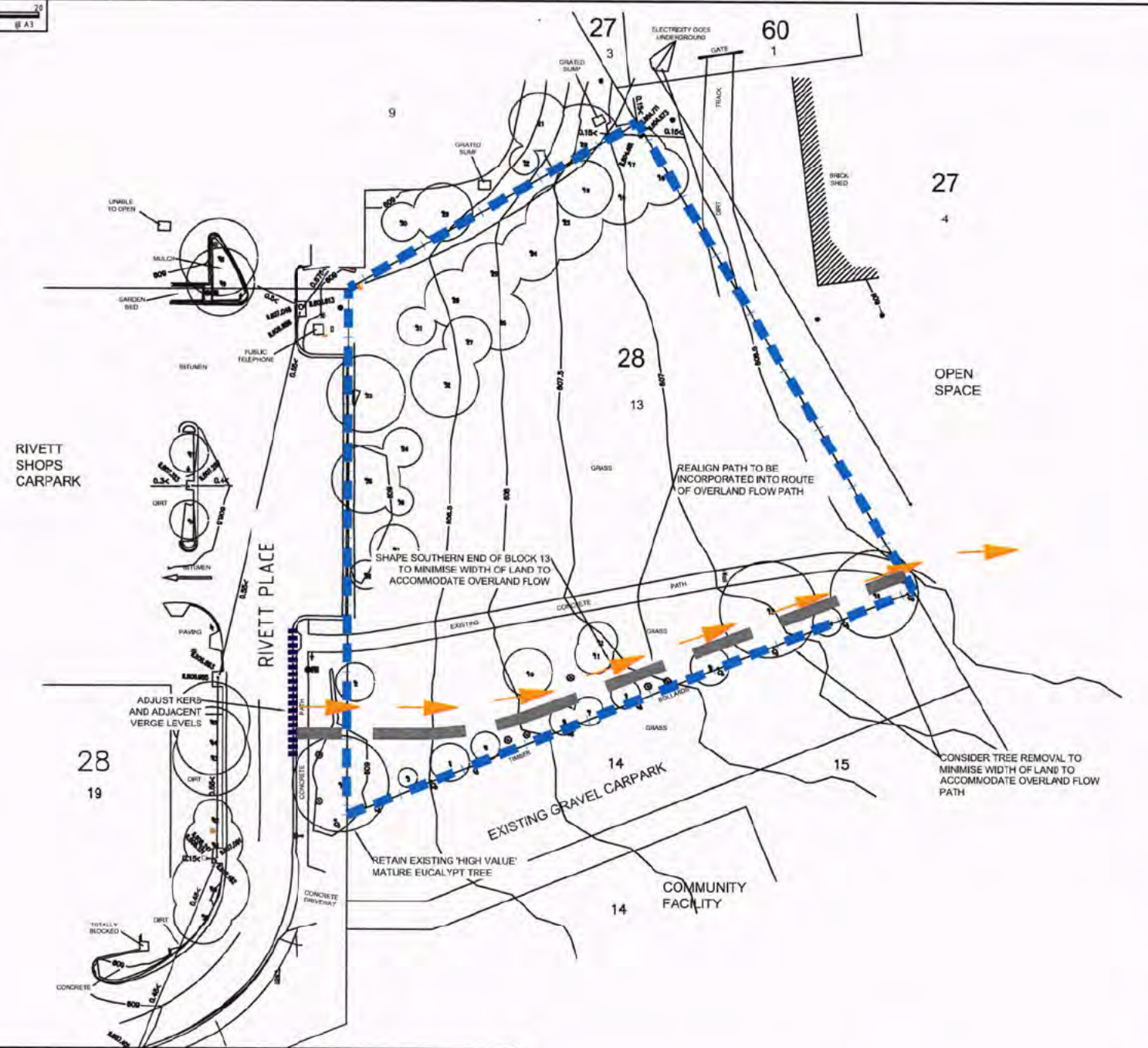
Title
RIVETT SECTION 28 BLOCK 13
EXTENT OF EXISTING 100 YEAR ARI OVERLAND FLOW

Designed	A. Valeri	Eng check	M. Breen
Drawn	A. Valeri	Coordination	M. Breen
Dwg check	M. Breen	Approved	M. Breen
Scale at A3	Status	Rev	Security
1:400	PRE	P1	STD

Drawing Number
MMD-311006-C-SK-CC05-XX-0001

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10 8 6 4 2 0
PLAN SCALE 1:400 @ A3



Notes

Key to symbols

EXISTING FEATURES

- 607 ——— EXISTING CONTOURS 0.5m INTERVALS
- ■ ■ ■ ■ BOUNDARY BLOCK 13
- ○ ○ ○ ○ EXISTING TREES

PROPOSED FEATURES

- → → → → OVERLAND FLOWPATH
- ▬▬▬▬▬▬▬ KERS ADJUSTMENT
- ▬▬▬▬▬▬▬ NEWPATH

Reference drawings

PI	Date	AV	Description	MI	MB
P1	23.05.14	AV	FOR INFORMATION	MI	MB
Rev	Date	Drawn	Description	ChYD	App'd

Level 6, SVP House
200 Bank St, Collinsville City ACT 2608
Australia
T +61 (0)2 8523 1000
www.mottmac.com.au

Client

Title

RIVETT SECTION 28 BLOCK 13
OPTION TO ACCOMMODATE
OVERLAND FLOW

Designed	A. Valeri	Engcheck	M. Brown
Drawn	A. Valeri	Coordination	M. Brown
Deepcheck	M. Brown	Approval	M. Brown
Scale at A3	1:400	Status	PRE P1 STD

Drawing Number

MMD-311006-C-SK-CC05-XX-0002

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A.3 Existing Stormwater Pipe Layout Rivett



Carson, Lucia

From: Neilsen, Andrew
Sent: Tuesday, 11 November 2014 2:45 PM
To: Carson, Lucia
Subject: Ahmaddiya Muslim Association Australia Limited

Hi Lucia,

The submission number is Cabinet Decision Number is 13/443/CAB.

Regards

Andrew Neilsen | Project Officer
Land Policy and Strategy
Chief Minister, Treasury and Economic Development Directorate | **ACT Government**
Phone 02 6205 3615 | andrew.neilsen@act.gov.au
Level 2 490 Northbourne Avenue | GPO Box 158 Canberra ACT 2601



ACT


Government


Economic Development

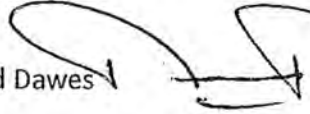
<p><i>Date due with Minister's Office</i></p> <p>ASAP</p>	<p><i>Date due with DG Office</i></p> <p>ASAP</p>	<p><i>TRIM Number</i></p> <p>BM14/58</p>
<p><i>Any other critical date and reason</i></p> <p>The submission is scheduled for consideration by cabinet on 11 February 2014</p>		

Subject: 13/433 - Direct Sale to Ahmadiyya Muslim Association Australia ACT Limited - Block 13 Section 42 RIVETT

Contact Officer: Andrew Neilsen
Phone: 62053615

Cleared by Director: Greg Ellis  Date: 17/1/14

Cleared by Executive Director: Dan Stewart  Date: 17.01.14

Cleared by Director-General: David Dawes  Date: 18/1/14



ACT
Government
Economic Development

BRIEF

BM14/58

SUBJECT: Circulate First Lodged Final Cabinet Submission: 13/443 - Direct Sale to the Ahmadiyya Muslim Association of Australia Limited of Block 13 Section 28 Rivett

To: Acting Minister for Economic Development

- Director-General, Economic Development Directorate *D 12/1/14*
- Deputy Director-General, Land Development, Strategy and Finance

From: Director, Sustainable Land Strategy

Date: 17 January 2014

Critical Date and Reason

As soon as possible in order to undertake first lodged final circulation of the Submission with a view to Cabinet consideration on 11 February 2014.

Purpose

This submission (Attachment 1) seeks Cabinet agreement to the direct sale of Block 13 Section 28 Rivett to the Ahmadiyya Muslim Association of Australia Limited (AMAA).

Background

The AMAA lodged an eligibility application (application) for a direct sale of land on 13 December 2010, following correspondence and discussions with members of the ACT Government. AMAA seek the direct sale of land to build a mosque and Imam's residence.

The AMAA is the ACT branch of a multi-national religious organisation which has members spread across the world, as well as having significant presence in many of the capital cities of Australia. The AMAA currently rent space in the Griffin Centre. The AMAA has advised that this space is no longer suitable for its growing congregation's needs.

The AMAA's application reflects they have approximately 80 members who live in the ACT and the surrounding region of New South Wales. The AMAA's constitution identifies that they provide social, moral and spiritual services to the Ahmadiyya Muslim community in the ACT.

Issues

The Direct Sale Panel (the Panel) assessed the AMAA's direct sale application against the applicable eligibility criteria and agreed that a recommendation be put forward to Government supporting the AMAA as eligible for the direct sale of land. The AMAA has been advised of the details of the land that has been proposed for this direct sale.

The AMAA originally requested a block of land between 5,000m²-7,000m² in area for the proposed mosque and associated Imam's residence. Due to the dwindling supply of community facilities zoned land, a smaller block (Block 13 Section 28 Rivett) has been identified by EDD and proposed for this use. Block 13 has an area of approximately 2,500m². The AMAA has advised that this would be suitable for its purposes.

Consultation

All directorates were consulted through the Panel and provided in-principle agreement to the direct sale. Further circulation also occurred once a block of land was identified through the Land Requests Advisory Committee (LRAC). Comments were provided regarding the proposal, most of which are best dealt with at the development approval stage.

Block 13 Section 28 Rivett is located in Rivett local centre immediately adjacent to a public car park and community facilities including a church and the Burrangiri aged care plus respite centre. It is also adjacent to the north-east by a local sporting oval. As a part of this submission a recommendation has been included that community consultation will be undertaken and you will be briefed on the outcome. A community consultation strategy has been prepared and is provided within the submission at Attachment B.

During the exposure draft circulation comments were provided by TAMS, ESDD and CMTD. The comments have been consolidated into a table in Attachment 2 and comments have either been noted or addressed throughout the body of the submission.

Further public notification will be undertaken by ESDD when the Development Application is lodged for approval.

Financial

The sale of a concessional lease (at less than market value) to the AMAA (a religious organisation) under the current charging policy for direct sales results in the price of the land being set at

RECOMMENDATION

That you agree to first lodge the Cabinet submission at Attachment 1.

Greg Ellis

Katy Gallagher
Katy Gallagher MLA H 1 /2014
AGREED/NOT AGREED/PLEASE DISCUSS

Action Officer: Andrew Neilsen x53615

Carson, Lucia

From: Carson, Lucia
Sent: Monday, 10 November 2014 3:56 PM
To: Jatheendran, Lingam
Subject: FW: Stormwater Study
Attachments: Rivett Stormwater Investigation Rev 1 (2) Dated May 2014.pdf

Hi Lingam,

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If you have any further questions regarding this site, please do not hesitate to contact me.

Kind regards,

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Chief Minister, Treasury & Economic Development Directorate
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T: 6207 9604 | F: 6207 7324 | E: lucia.carson@act.gov.au

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Sent: Wednesday, 9 July 2014 3:24 PM
To: Yu, Frank
Subject: Stormwater Study

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Regards,

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F: 6207 7324
E: lucia.carson@act.gov.au

Carson, Lucia

From: Hicks, Katherine
Sent: Monday, 3 November 2014 9:45 AM
To: Carson, Lucia
Cc: Chappell, Hazel
Subject: FW: Direct Sale 2010-082 - AHMADDIYYA MUSLIM ASSOCIATION AUSTRALIA - ACT - Block 13 Section 28 RIVETT

Hi Lucia

I know you rang be to give me an update on the above Direct Sale site servicing issues. Can you confirm that there are some issues being resolved with TAMS and that we could expect this Direct Sale to be finalised in the first quarter of 2015? This has been a rather long drawn out sale (looks like it commenced in 2010).

I have an enquiry from the proponent and I would like to provide a realistic time frame to them for when we could expect the sale to be finalised.

Regards

Katherine Hicks
Project Manager | Office of The Coordinator General | Project Facilitation and Direct Sales
Phone: 02 6205 4868
Policy, Projects and Legislation | Economic Development Directorate | ACT Government
Level 2 Telstra House, 490 Northbourne Avenue, Dickson ACT 2602
GPO Box 158 Canberra ACT 2601 | www.economicdevelopment.act.gov.au

From: Hicks, Katherine
Sent: Wednesday, 29 October 2014 12:39 PM
To: Carson, Lucia
Subject: Direct Sale 2010-082 - AHMADDIYYA MUSLIM ASSOCIATION AUSTRALIA - ACT - Block 13 Section 28 RIVETT

Hi Lucia

I am following up on where things are up to with the SIR and PC's .

Andrew Neilsen has handed this project over to me and informs me that a request was made to your team in March this year to undertake an SIR and that issues are being resolved with TAMS as of 25 August 2014.

An update would be appreciated.

Thank you
Katherine

Katherine Hicks
Project Manager | Office of The Coordinator General | Project Facilitation and Direct Sales
Phone: 02 6205 4868
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Level 2 Telstra House, 490 Northbourne Avenue, Dickson ACT 2602
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To: Carson, Lucia
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An update would be appreciated.

Thank you
Katherine

Katherine Hicks
Project Manager | Office of The Coordinator General | Project Facilitation and Direct Sales
Phone: 02 6205 4868
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GPO Box 158 Canberra ACT 2601 | www.economicdevelopment.act.gov.au

248
✓

Carson, Lucia

From: Carson, Lucia
Sent: Monday, 9 September 2013 8:30 AM
To:
Subject: Phase 1 Geotech & Contamination Reports for Gordon Section 517 Block 2 & Rivett Block
13 Section 28

Good morning

On the 22nd July I received an email saying that the Geotechnical and the Phase 1 Contamination Reports for Rivett and Gordon have been completed and are undergoing internal review prior to issue.

Could you please let me know when you will be finalising the internal review of these reports and how soon can I expect to receive them.

Many thanks & regards,

Lucia Carson
Project Officer
Site Preparation
Land Development Agency
Economic Development Directorate
Level 7 TransACT House
470 Northbourne Avenue
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LAND DEVELOPMENT AGENCY
Canberra First

LAND DEVELOPMENT AGENCY PURCHASE ORDER REQUEST FORM

NEW PURCHASE ORDER

Document Type

SELECTED SUPPLIER

LDA ADDRESS

Name Mott MacDonald
 Address Level 6, SAP House, 224 Bunda Street, CANBERRA ACT 2601
 ABN Number 13134120353
 Contact Mike Breen

Section Urban Renewal Branch
 Street Address Level 6/7 TransACT House
 470 Northbourne Ave
 Dickson ACT 2602

Postal Address GPO Box 158
 CANBERRA ACT 2601

Procurement Methodology Quotation

ACCOUNTING FLEXFIELD

LINE	DESCRIPTION	AMOUNT		TOTAL (inc GST)	ACCOUNTING FLEXFIELD					
		(exc GST)	GST		Entity	Cost Centre	Account	Int Trading	Project	Agency Code
	Engineering Services - Overland Flow for Rivett Block 13 Section 28				150	16714	111537	99	99999	9999
					150	.	.	.	.	9999
					150	.	.	.	.	9999
					150	.	.	.	.	9999
					150	.	.	.	.	9999
ORDER TOTAL:										

Requests/Comments: Requests/Comments

APPROVING OFFICER
 (signature and name)

Hazel Chappell

Name: Hazel Chappell

Date

29/7/14

Date:
29.07.2014

REQUESTING OFFICER
 (signature and name)

Lucia Carson

Name: Lucia Carson

Tel

Phone: 6207 9604

Carson, Lucia

From: Neilsen, Andrew
Sent: Monday, 25 August 2014 9:06 AM
To: Carson, Lucia
Subject: RE: Direct Sales - 2012 - 082 - Ahmaddiyya Muslim Association Australia - 13/28 Scullin

Rivett

Hi Lucia, sorry I missed the call.

This site is yours it's the one you have been working on for me, next to the oval. To jog your memory you were having issues with TAMS.

Cheers
Andrew N

From: Carson, Lucia
Sent: Monday, 25 August 2014 9:03 AM
To: Neilsen, Andrew
Subject: RE: Direct Sales - 2012 - 082 - Ahmaddiyya Muslim Association Australia - 13/28 Scullin

Hi Andrew,

Hazel has advised me it's Adrian's site. I know nothing of where he is up to you will have to ask him.

Sorry!!

Lucia

From: Neilsen, Andrew
Sent: Monday, 25 August 2014 8:58 AM
To: Carson, Lucia
Subject: Direct Sales - 2012 - 082 - Ahmaddiyya Muslim Association Australia - 13/28 Scullin

Hi Lucia,

Just touching base. Are you able to provide me an update on the Site Investigations and PC's preparation please?

Regards

Andrew Neilsen | Project Officer
Office of the Coordinator-General / Project Facilitation & Direct Sales
Chief Minister, Treasury and Economic Development Directorate | **ACT Government**
Phone 02 6205 3615 | andrew.neilsen@act.gov.au
Level 2 490 Northbourne Avenue | GPO Box 158 Canberra ACT 2601

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 Chief Minister, Treasury and Economic Development Directorate | **ACT Government**
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246

Tax Invoice



FOR THE ATTENTION OF Lucia Carson
LAND DEVELOPMENT AGENCY
GPO BOX 158
CANBERRA ACT 2601

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*Funding Approved
29/7/14*



Invoice No	IN00011087	ABN No	13134120353	Date	<u>23 July 2014</u>
Customer PO ref		Customer contact		Customer ABN No	
Our reference	311006CC05	Our Contact	Mike Breen	Customer No	L500904
				Page	1 of 1

Project Description Rivett Section 28 Block 12 – Overland Flow AUD

TAX INVOICE (Summary Attached)

PROFESSIONAL SERVICE FEE

Net Value

Zero rated goods	ABN	0.00%
Other rated goods		10.00%

GST Amount
Gross Value AUD

"This is a payment claim made under the *Building and Construction Industry (Security of Payment) Act 2009 (ACT)*"
Payment terms within 30 days from date of invoice. Payment to be received no later than 22nd August 2014

Please make payment to Mott MacDonald Australia PTY Ltd,

Please e-mail remittance to accountsreceivableau@motimac.com or mail cheque to the address above. Please quote invoice with your remittance.

Mott MacDonald Aust Pty Ltd
Registered In Australia ABN 13134120353

23/07/2014
Inv No 11087
311006CC05
MB

TAX INVOICE SUMMARY

Attention: Lucia Carson

Re: Rivett Section 28 Block 13 - Overland Flow

To: Professional services in connection with the civil engineering services in accordance with MM fee proposal dated 11/4/14. Purchase Order No L14399

Progress Claim No. 2

Item	Fee	Completed	Total Claimed	Previously Claimed	This Claim
Lump Sum Fee		100%			
Variation					
Attend cancelled meeting at TAMS					
Craig Ohmsen		100%			
TOTAL FEE					
TOTAL GST					
TOTAL AMOUNT					

Total Amount (including GST) Due this Invoice

Carson, Lucia

From: Carson, Lucia
Sent: Wednesday, 9 July 2014 3:24 PM
To: Yu, Frank
Subject: Stormwater Study
Attachments: Rivett Stormwater Investigation Rev 1 (2) Dated May 2014.pdf

Frank,

Please find attached Stormwater Study for the Rivett Block 13 Section 28.

Regards,

Lucia Carson
Project Officer
Site Preparation
Land Development Agency
Economic Development Directorate
Level 7 TransACT House
70 Northbourne Avenue
DICKSON ACT 2602
T: 6207 9604
F: 6207 7324
E: lucia.carson@act.gov.au

24

✓

Carson, Lucia

From: Jatheendran, Lingam
Sent: Monday, 7 July 2014 4:24 PM
To: Carson, Lucia; Yu, Frank
Cc:
Subject: RE: Reports for Rivett Section 28 Block 13

Frank

Please liaise with Lucia Carson and attend the meeting to resolve the issues identified. You can nominate a date for a meeting convenient to you and others.

Lingam

From: Carson, Lucia
Sent: Monday, 7 July 2014 3:54 PM
To: Jatheendran, Lingam
Cc:
Subject: Reports for Rivett Section 28 Block 13

Lingam,

I've spoken to Matti Kovalainen who advised me that you would be looking after Rivett Block 13 Section 28. I have attached above both the Pedestrian Assessment and the Stormwater Investigation Report for Rivett Block 13 Section 28 for your information.

My manager has advised me that we need to get this site out to market by end of July (this month) so it is imperative that we find solutions for the release of this site.

On 30th April we received an email from Frank Yu which contained in principle support for the Pedestrian Assessment subject to two issues to be addressed.

1. The proposed footpath to be along the southern boundary of the block 13. This footpath is additional to the northern footpath and should be located within an easement of a minimum of 6 meter wide.
2. Public consultation for the removal and rearrangement of the footpath.

We have absolutely no issues with the public consultation as that is part of the LDA process for the release of all sites. However, this site is already a small site, adding an easement of a minimum of 6 meters wide will remove a substantial amount of land. Also, our consultant identified this location as the best location for the driveway entrance into this block.

I need your assistance in finding a resolution to the above issue.

The stormwater Investigation Report has also identified issues with the Overland flow:

Existing Overland Flow across Block 13

This assessment has found that the overland flow will overtop the western kerb and verge of Rivett Place over a length of approximately 40m and spill across the southern parts of Block 13 and the gravel carpark in the adjacent Block 14. The overland flow would generally be broad sheet flow with minimal depth.

Option to Cater for Overland Flow

It appears feasible to provide a separate reserve at the southern end of Block 13 adjacent to Block 14 to accommodate overland flow. This reserve could be shaped to accommodate both a path and overland flow.

Detailed design of this reserve would need to incorporate measures to minimise the reduction in developable land. The existing kerb levels in Rivett Place adjacent to Block 13 would need to be adjusted to assist in the conveyance of the overland flow over a more restricted width than is currently the case. The location and value of existing trees would need to be considered in the detail design of the reserve.

Please advise if the above option to cater for the Overland Flow meets with your approval. If not do you have another alternative solution?

Your assistance will be gratefully appreciated.

Regards,

Lucia Carson
Project Officer
Site Preparation
Land Development Agency
Economic Development Directorate
Level 7 TransACT House
1 Northbourne Avenue
DICKSON ACT 2602
T: 6207 9604
F: 6207 7324
E: lucia.carson@act.gov.au

Carson, Lucia

From: Jatheendran, Lingam
Sent: Monday, 7 July 2014 2:13 PM
To: Carson, Lucia
Subject: RE:

Hi Lucia

This is a straight forward block with respect to access and other facilities. Have the consultants finished the site investigation if so we can provide our comments.

At this stage I don't think a meeting is necessary.

Regards

Lingam Jatheendran

Chief Engineer

**Asset Acceptance Section | Operational Support Branch | Directorate Services Division
Territory & Municipal Services Directorate (TAMS) | ACT Government**

Ph: (02) 6207 6592 | 𠄎 Fax: (02) 6207 7484

"Great Services - Quality Assets - Better Lifestyles"



From: Carson, Lucia
Sent: Monday, 7 July 2014 12:05 PM
To: Jatheendran, Lingam
Subject:

Hi Lingam,

It's Block 13 Section 28 Rivett

Regards,

Lucia

Hi Lucia

Could you please let me know whether block 28 is the correct block number?

Regards

Lingam

-----Original Appointment-----

From:

Sent: Friday, 4 July 2014 9:15 AM

To: Carson, Lucia; Grdur, Michael; Jatheendran, Lingam

Subject: Rivett Block 28 Section 13

When: Tuesday, 8 July 2014 10:00 AM-11:00 AM (UTC+10:00) Canberra, Melbourne, Sydney.

Where: LDA Office, Level 7 TransACT House 470 Northbourne Ave Dickson

All

This meeting is to discuss and resolve issues regarding the release of the above block.

Issues as they currently stand;

- 1. Footpaths
- 2. Trees
- 3. Overland Flow paths

Should there be anything else requiring discussion please advise and I shall prepare and bring any relevant information.

Lingam – Should you wish to send an alternative representative please advise.

! Regards

Senior Civil Engineer

Mott MacDonald

Level 6, SAP House
 224 Bunda St, Canberra City
 ACT 2601
 PO Box 224 Civic Square ACT
 2608Australia

T +61 (02) 6253 1555

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Global management, engineering and development consultants

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Lucia Carson
 Project Officer
 Site Preparation
 Land Development Agency
 Economic Development Directorate
 Level 7 TransACT House

470 Northbourne Avenue
DICKSON ACT 2602
T: 6207 9604
F: 6207 7324
E: lucia.carson@act.gov.au

Carson, Lucia

From: Breen, Mike J
Sent: Thursday, 26 June 2014 9:45 AM
To: Carson, Lucia
Cc: ; Grdur, Michael
Subject: Rivett Block 28 Section 13

Lucia

With regard to your email below it would be best to meet with TAMS to discuss these issues, in particular :

- TAMS have requested a path on the northern side of the block and a path on the southern side of the block (Frank Yu email 30 April 2014), it would be reasonable to discuss whether both paths are required as this reduces developable land.
- Have not seen a response back to LDA from Frank Yu in relation TAMS Tree Section comment on proposed northern path in vicinity of existing trees (Frank Yu email 27 May 2014).
- There are also trees located within the block which will be in the vicinity of the realigned southern path.

If TAMS Tree Section want both of these paths well clear of existing trees there would be a significant loss of developable land.

The overland flow report was not yet been submitted to TAMS because it thought it would be best to see what the response was from TAMS Tree Section on the northern path and tree implications. Unfortunately at this stage it appears that TAMS have not yet responded to your office so best to convene a meeting to lay all these issues on the table for discussion.

These tree and path discussions need to be undertaken in conjunction with the overland flow issues on the site so that an integrated resolution can be found with minimum loss of developable land.

Mike Breen

From: Carson, Lucia [<mailto:Lucia.Carson@act.gov.au>]
Sent: Monday, 16 June 2014 9:37 AM
To: Breen, Mike J
Subject: Rivett Block 28 Section 13

Morning Mike,

At our last meeting you explained to me the issues we have with the above site. A further report was undertaken on the above site and at our last meeting you explained to me that there was an issue with potting within the car park with the flow of water then extending into Block 13 Section 28. Mike you advised the report was to be forwarded to TAMS and that you would have discussions with them to find the best solution to resolving this issue.

As I have not heard from you I am wondering if you have heard from TAMS or do we need to hold a meeting with them to resolve the issue?

Lucia Carson
Project Officer
Site Preparation
Land Development Agency
Economic Development Directorate
Level 7 TransACT House
470 Northbourne Avenue
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T: 6207 9604
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TREE ASSESSMENT ELEMENTS

Number: Unique and sequential identification number
 Name: Botanical name & height (m)
 Trunk: circumference (m) at 1 metre above natural ground level
 Canopy: Diameter (m) at the furthest point from the trunk (m)
 Health: The general health and vigour of the tree
 Defects / Decay: Structural defects or evidence of internal decay
 Damage / Disturbance: Evidence of past damage to the tree or disturbance within the root zone
 Disease: Evidence of past or present disease or insect infestation
 Stage: Current growth stage (e.g. juvenile, semi-mature, mature or over mature)
 Quality: Tree quality classification trees are to be classified as being of Exceptional (E), High (H), Medium (M), Poor (P) or Low (L) quality.
 Tree Act Status: Refer notes below

Tree 'Regulated' Status by Virtue of Size (On - Lease)
 Under the Tree Protection Act 2005 a tree is termed a Regulated Tree and is to be protected if it is growing on Urban Leased land and has at least one of:
 * A height of 12m or more; or
 * A trunk circumference of 1.5m (approx 0.5m in diameter) or more at 1m above ground level; or
 * Two or more trunks and the total circumference of all the trunks, 1m above ground level, is 1.5m or more; or
 * A minimum crown width of 12m or more; and
 * Must be alive - all dead trees have been ranked as Non Protected tree.
 * Is not a weed species under the Pest Plant & Animals Declaration 2005

Tree Protected Status
 YES - The tree has a dimension that any activity must be assessed under the Tree Protection Act on Leased land; or is on Government land eg. road verge, park, etc as all trees on Government land are protected.
 NO - The tree if on Leased land is sufficiently small or declared a Weed Species that it does not require assessment under the Tree Protection Act.
 NA - Not applicable as Off Lease but often protected as these trees are generally on Government (Unleased) land.

Future Tree Approvals
 On-Leased land: If a tree has protected status then approval must be gained from TaMS Urban TreeScapes Unit prior to removal, lopping or ground damaging activity.
 Off-Leased (Territory) land: Please note all trees located external to the leased block boundary i.e. the verge or open space, cannot be removed, pruned or damaged without the approval of the Urban TreeScapes Unit, City Services (13 22 81) as on Government land.

Tree Management:
 Trees within lease require a Tree Management Plan (TMP) and on the verge a Landscape Management Protection Plan (LMPP) outlining removals, pruning, tree protection measures, site access and restorative works issues as part of the design process.

TREE ASSESSMENT REPORT
 BLOCK 13 OF SECTION 28 CONTAINS A MIX OF DECIDUOUS EXOTIC TREES AND EVERGREEN NATIVES. THE SITE IS GRASSED THROUGHOUT WITH THE EXCEPTION OF CONCRETE FOOT PATHS AS SHOWN. ALTHOUGH PROTECTED BY BOLLARDS, SOME POINTS ARE ACCESSIBLE TO CONSTRUCTION & MAINTENANCE VEHICLES WHO USE THE PRAM CROSSING TO PARK UP ON THE VERGE AND WITHIN THE BLOCK. EVIDENT WHERE WORN AND COMPACTED AS SHOWN AS BROWN AREAS IN AERIAL.

MATURE MEDIUM & HIGH QUALITY RATED *Eucalyptus mannifera* & *E. sideroxylon* 'Rosea' TREES 3 & 5 APPEAR TO BE GROWING & ARE IN GOOD HEALTH.

GROUP 1 TREES ARE SEMI - MATURE *Ulmus parvifolia*. THESE TREES HAVE BEEN PLANTED AS A STAND WITHIN A RELATIVELY TIGHT PLANTING ARRANGEMENT, AS SUCH, SOME TREES WITHIN THE STAND ARE SUPPRESSED & OR HAVE LEANING / UNDER DEVELOPED CANOPIES.

SELECTIVE THINNING MAY BE AN ADVANTAGE TO ALLOW SOME INDIVIDUAL IMPROVED LARGER TREE FORMS



PLEASE NOTE TREE LOCATIONS & NUMBERS WERE LOCATED ACT/PM/PI 2012 AERIAL AND WERE VERIFIED FROM SITE INSPECTION UNDERTAKEN BY ENVIRO LINKS DESIGN PTY LTD, JUNE 2013 WHEN TREES WERE DORMANT & IDENTIFYING FEATURES NOT EXHIBITED. TREE NUMBERS ALLOCATED BY ENVIRO LINKS DESIGN.

TREES ASSESSED BY GROUP as being of similar species and attributes (eg. size, health, stage)

VALUE RANKING - INDIVIDUAL TREES
 The definition within the value classification is based on the works being on leased land and therefore under the jurisdiction of the TaMS Urban TreeScapes Unit (UTU) All trees on Government Land are regarded as protected trees and can not be removed or damaged or works undertaken near them without the approval of the UTU. (The Tree Act, and Regulated Tree definitions are therefore applicable to leased site, unless otherwise advised).

EXCEPTIONAL VALUE (PROTECTED TREE) - trees that are outstanding examples of their species and have significant visual impact. They have most of the following: mature specimens with grand appearance and stature; may have unusual character; may be a rare species; well balanced; cultural heritage importance; significant scientific value; presents a low hazard/safety risk. Significant value within the landscape context of the site and should be preserved.

HIGH VALUE (PROTECTED TREE) - trees that are good examples of their species and have significant visual impact. They have most of the following: high arboricultural value or potential; good form; healthy specimens with good size and little or no epicormic shoots or other arboricultural problems. Good value within the landscape context of the site and should be preserved if at all possible.

MEDIUM VALUE (PROTECTED TREE) - trees generally complying with most of the following: reasonable form or reasonable current size with good health / growth potential; healthy specimen with significant growth (or with moderate tree surgery a large tree can be modified from fair to good health, it can carry some deadwood); has value within the landscape context of the site; presents a medium to low hazard/safety risk. Does not justify special attention of construction expenditure but justifies a minor design adjustment to save or could be removed if necessary. Retain if appropriate to land use and future management cost and risks.

POOR VALUE (PROTECTED TREE) - trees generally complying with most of the following: specimen with low growth or poor form and possible health problems; trees of little value; presents a high or very high hazard/safety risk. . Expendable, remove if necessary - retain if appropriate to land use and future management costs and risks.

LOW VALUE (UN-PROTECTED TREE) - non-significant tree under the 2005 Tree Protection Act. Trees therefore can range from well established quality trees to poor health small trees of no significance. Some possibly with important landscape impact (e.g. regeneration) or future growth potential to contribute to the landscape in future years. Expendable, remove if necessary - retain if appropriate to land use and future management costs and risks.

DEAD TREE

TREE ASSESSMENT SCHEDULE

ELD No.	Botanical Name	Height (m)	No. Trunks	Trunk circ. (m)	Canopy dia. (m)	Health and Vigour	Structural defects and decay	Past Damage or root disturbance	Disease or infestation	Stage	Quality Rating	Protected Status
						(G-good, F-fair, P-poor, DW-deadwood, EPI-epicormic growth)	(OC-occluded fork, AGL-Above Ground Level)	(AGL- Above Ground Level)	(AGL- Above Ground Level)	Juvenile (J), Semi-mature (SM), Mature (M), Over mature (OM)	Low (L), Poor (P), Medium (M), High (H), Exceptional (E) <i>(NOTE: Quality Rating also noted with (E) specify an exceptional rating due to heritage listed status)</i>	Unleased Land, Yes-TaMS Tree Act (Yes - Y, No - N) - Note: N* denotes a tree not regulated due to ACT Declared Weed Species status
G1	<i>Ulmus parvifolia</i>	5-10	1	0.55-1.3	5-10	Good	None apparent	Some past up pruning of lower canopy	None apparent	Semi - Mature	Low	No
G2	<i>Prunus sp.</i>	4-5	1	0.55	4	Fair, some dead branches / trunks	None apparent	Some past up pruning of lower canopy	Some have rotted / dead stem	Semi - Mature	Low	No
G3	<i>Prunus sp.</i>	4-5	1	0.55	4	Fair, some dead branches / trunks	None apparent	Some past up pruning of lower canopy	None apparent	Semi - Mature	Low	No
1	<i>Zelkova serrata</i>	8.5	1	1	8	Good	None apparent	Some past up pruning of lower canopy	None apparent	Mature	Low	No
2	<i>Zelkova serrata</i>	8.5	1	1	8	Good	None apparent	Some past up pruning of lower canopy	None apparent	Mature	Low	No
3	<i>Eucalyptus sideroxylon</i> 'Rosea'	11	1	2.5	14	Good	None apparent	None apparent	None apparent	Mature	High	Yes
4	<i>Quercus robur</i>	11	1	1.5	10	Good	None apparent	None apparent	None apparent	Mature	Medium	Yes
5	<i>Eucalyptus mannifera</i>	10.5	1	1.3	14	Good, slight lean to North West	None apparent	None apparent	None apparent	Mature	Medium	Yes
6	<i>Ulmus sp.</i>	10	4	2.5	12	Good, multi trunk	None apparent	Some past up pruning of lower canopy	None apparent	Mature	Medium	Yes (multi trunk)
7	<i>Ulmus sp.</i>	7	4.00	2	5	Fair, multi trunk suckering right up against building	None apparent	None apparent	None apparent	Mature	Medium	Yes (multi trunk)

NO.	DESCRIPTION	DATE
A	For Information	28 JUN 2013
B	For Approval	28 JUN 2013

NOTES

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- To be used in conjunction with all relevant contracts, specifications, reports, drawings and development approval conditions. Obtain any outstanding statutory approvals for commencement of works.
- Approved dimensions to be followed in preference to related measurements. Dimensions in millimetres unless noted otherwise.
- Contractor is responsible for locating all services and obtaining necessary clearance and approvals. Contractor to verify dimensions, levels & depths to be in accordance with proposed Plan & Environmental Identification for Urban Infrastructure Works unless otherwise specified. All disturbances by works must be reinstated to existing condition.

CLIENT

CANBERRA FIRST

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PROJECT
 BLOCK 28
 SECTION 13
 RIVETT

TITLE
 TREE ASSESSMENT PLAN

SCALE
 1:1000 @ A3

JOB NO.
 1317

DWG NO.
 TA-01

ISSUE
 A

NORTH

Carson, Lucia

From: Carson, Lucia
Sent: Thursday, 5 June 2014 9:09 AM
To: Yu, Frank - *Senior Project Engineer, TAMS (Traffic)*
Subject: RE: Footpath changes for Rivett Block 13 Section 106

Morning Frank,

A Tree Assessment was undertaken in June 2013 by Envirolinks Design and is attached to the SIR which will be forwarded for agency comment in the near future.

As this site was approved through a Cabinet submission the LDA is not required to undertake public consultation for the site. Information regarding this site is also contained in the Open Government Website.

If you require any further information please do not hesitate to contact me.

Regards,

From: Yu, Frank
Sent: Wednesday, 4 June 2014 4:53 PM
To: Carson, Lucia
Cc: Joseph, Gabriel; Uddin, Kamal
Subject: RE: Footpath changes for Rivett Block 13 Section 106

Hi Lucia

After discussing with Tree officer, a Tree Survey and Assessment is required for us to assess whether the proposed footpath can be placed on the northern boundary of the block. Please also carry out a public consultation including consultation with local community council for the proposal footpath and provide outcome of the consultation before we provide our comments.

Please contact me if you have any queries.

Kind Regards

Frank Yu
Senior Project Engineer
Asset Acceptance / Operational Support / Directorate Services
Territory & Municipal Services Directorate (TAMS) | ACT Government
(Ph: (02) 62052970 | Fax: (02) 6207 7484 | E-mail: frank.yu@act.gov.au)
"Great Services - Quality Assets - Better Lifestyles"

From: Yu, Frank
Sent: Tuesday, 27 May 2014 3:18 PM
To: Carson, Lucia
Cc: Joseph, Gabriel; Jatheendran, Lingam; Uddin, Kamal
Subject: RE: Footpath changes for Rivett Block 13 Section 106

Hi Lucia

We are seeking advices from Tree section in the TAMS on your proposal of footpath to be placed on the northern easement. We will inform you once we have the advices.

Kind Regards

Frank Yu
Senior Project Engineer
Asset Acceptance / Operational Support / Directorate Services
Territory & Municipal Services Directorate (TAMS) | ACT Government
(Ph: (02) 62052970 | Fax: (02) 6207 7484 | E-mail: frank.yu@act.gov.au
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From: Carson, Lucia
Sent: Tuesday, 27 May 2014 2:25 PM
To: Jatheendran, Lingam
Cc: Yu, Frank
Subject: RE: Footpath changes for Rivett Block 13 Section 106

Hi Lingam,

On 16th May I forwarded an email to Frank Yu confirming our discussions regarding footpath changes for Rivett Block Section 106 and requested in principle support for those changes to take effect.

Frank Yu forwarded the email to you for response. As of today I have not received a reply from you. So that I can finalise the SIR I need in principle support from you for these changes to go ahead.

Regards,

Lucia Carson
Project Officer
Site Preparation
Land Development Agency
Economic Development Directorate
Level 7 TransACT House
470 Northbourne Avenue
CANBERRA ACT 2602
P: 6207 9604
F: 6207 7324
E: lucia.carson@act.gov.au

From: Yu, Frank
Sent: Monday, 19 May 2014 3:57 PM
To: Carson, Lucia
Cc: Jatheendran, Lingam
Subject: RE: Footpath changes for Rivett Block 13 Section 106

Lucia

I have forwarded your email to Lingam in our office. He will respond to your email.

Kind Regards

Frank Yu
Senior Project Engineer
Asset Acceptance / Operational Support / Directorate Services
Territory & Municipal Services Directorate (TAMS) | ACT Government
(Ph: (02) 62052970 | Fax: (02) 6207 7484 | E-mail: frank.yu@act.gov.au)
"Great Services - Quality Assets - Better Lifestyles"

From: Carson, Lucia
Sent: Friday, 16 May 2014 1:41 PM
To: Yu, Frank
Subject: Footpath changes for Rivett Block 13 Section 106

Hi Frank

Appreciate very much your attendance at the meeting this morning. I would however like to confirm what we discussed and agreed to with the removal and extension of the footpath for Rivett Block 13 Section 28.

Confirming your agreement to the removal of the existing concrete footpath which passes through the southern end of the site and extending the path east of the site which will then connect to the footpath running north of the site.

Could you please forward your in principle agreement so that I can contact the consultant and have the SIR and costs amended to include the above changes.

Regards,

Lucia Carson
Project Officer
Site Preparation
Land Development Agency
Economic Development Directorate
Level 7 TransACT House
470 Northbourne Avenue
CANBERRA ACT 2602
T: 6207 9604
F: 6207 7324
E: lucia.carson@act.gov.au

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Please contact me if you have any queries.

nd Regards

Frank Yu
Senior Project Engineer
Asset Acceptance / Operational Support / Directorate Services
Territory & Municipal Services Directorate (TAMS) | ACT Government
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Senior Project Engineer
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Lucia Carson
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Lucia

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Kind Regards

Frank Yu
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Asset Acceptance / Operational Support / Directorate Services
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Could you please forward your in principle agreement so that I can contact the consultant and have the SIR and costs amended to include the above changes.

Regards,

Lucia Carson
Project Officer
Site Preparation
Land Development Agency
Economic Development Directorate
Level 7 TransACT House
470 Northbourne Avenue
DICKSON ACT 2602
T: 6207 9604
6207 7324
E: lucia.carson@act.gov.au

Carson, Lucia

From: Carson, Lucia on behalf of LDA, Planning & Design
Sent: Wednesday, 28 May 2014 3:39 PM
To: Breen, Mike J
Subject: FW: Footpath changes for Rivett Block 13 Section 106

Hi Mike,

Please see the email trail below. My first email to Frank Yu was sent on 16.05.2014 requesting inprinciple support / agreement to the removal of the existing concrete footpath which passes through the southern end of the site and extending the path east of the site which will connect to the footpath running north of the site.

Below is also Frank Yu's response of yesterday 27.05.2014 that they are seeking advice from Tree section in TAMS.

Thank you for coming this morning.

Regards,

Lucia

From: Yu, Frank
Sent: Tuesday, 27 May 2014 3:18 PM
To: Carson, Lucia
Cc: Joseph, Gabriel; Jatheendran, Lingam; Uddin, Kamal
Subject: RE: Footpath changes for Rivett Block 13 Section 106

Hi Lucia

We are seeking advices from Tree section in the TAMS on your proposal of footpath to be placed on the northern easement. We will inform you once we have the advices.

Kind Regards

Frank Yu
Senior Project Engineer
Asset Acceptance / Operational Support / Directorate Services
Territory & Municipal Services Directorate (TAMS) | ACT Government
(Ph: (02) 62052970 | Fax: (02) 6207 7484 | E-mail: frank.yu@act.gov.au)
"Great Services - Quality Assets - Better Lifestyles"

From: Carson, Lucia
Sent: Tuesday, 27 May 2014 2:25 PM
To: Jatheendran, Lingam
Cc: Yu, Frank
Subject: RE: Footpath changes for Rivett Block 13 Section 106

Hi Lingam,

On 16th May I forwarded an email to Frank Yu confirming our discussions regarding footpath changes for Rivett Block 13 Section 106 and requested in principle support for those changes to take effect.

Frank Yu forwarded the email to you for response. As of today I have not received a reply from you. So that I can finalise the SIR I need in principle support from you for these changes to go ahead.

Regards,

Lucia Carson
Project Officer
Site Preparation
Land Development Agency
Economic Development Directorate
Level 7 TransACT House
470 Northbourne Avenue
DICKSON ACT 2602
T: 6207 9604
F: 6207 7324
E: lucia.carson@act.gov.au

From: Yu, Frank
Sent: Monday, 19 May 2014 3:57 PM
To: Carson, Lucia
Cc: Jatheendran, Lingam
Subject: RE: Footpath changes for Rivett Block 13 Section 106

Lucia

I have forwarded your email to Lingam in our office. He will respond to your email.

Kind Regards

Frank Yu
Senior Project Engineer
Asset Acceptance / Operational Support / Directorate Services
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Ph: (02) 62052970 | Fax: (02) 6207 7484 | E-mail: frank.yu@act.gov.au
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From: Carson, Lucia
Sent: Friday, 16 May 2014 1:41 PM
To: Yu, Frank
Subject: Footpath changes for Rivett Block 13 Section 106

Hi Frank

Appreciate very much your attendance at the meeting this morning. I would however like to confirm what we discussed and agreed to with the removal and extension of the footpath for Rivett Block 13 Section 28.

Confirming your agreement to the removal of the existing concrete footpath which passes through the southern end of the site and extending the path east of the site which will then connect to the footpath running north of the site.

Could you please forward your in principle agreement so that I can contact the consultant and have the SIR and costs amended to include the above changes.

Regards,

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Carson, Lucia

From: Breen, Mike J
Sent: Wednesday, 28 May 2014 2:54 PM
To: Carson, Lucia
Cc:
Subject: FW: Pedestrian Assessment for Rivett Block 18 Section 28

Lucia

Contrary to the advice this morning it was Frank Yu that responded with comments on the pedestrian study, refer below.

If you could send me in bullet point form what was agreed verbally in your recent discussion I will forward to Frank to confirm agreement.

Mike Breen

From: Yu, Frank [mailto:Frank.Yu@act.gov.au]
Sent: Wednesday, 30 April 2014 3:28 PM
To: Breen, Mike J
Cc: Jatheendran, Lingam; Halestrap, Terry; Moniruzzaman, Asm
Subject: RE: Pedestrian Assessment for Rivett Block 18 Section 28

.ike

The report of Pedestrian Assessment is supported in principle subject to two issues to be addressed:

1. The proposed footpath to be along the southern boundary of the block 13. This footpath is additional to the northern footpath and should be located within an easement of a minimum of 6 meter wide.
2. Public consultation for the removal and rearrangement of the footpath.

Please contact me if you have any queries.

Kind Regards

Frank Yu
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 (Ph: (02) 62052970 | Fax: (02) 6207 7484 | E-mail: frank.yu@act.gov.au)
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From: Breen, Mike J
Sent: Wednesday, 16 April 2014 10:07 AM
To: Halestrap, Terry
Cc: Carson, Lucia; Jatheendran, Lingam
Subject: Pedestrian Assessment for Rivett Block 18 Section 28

Terry

Further to previous correspondence with regard the proposal removal of an existing path across Block 13 (refer email trail below) please find attached a pedestrian assessment report.

This submission is provided for comment with the purpose of obtaining in principle approval before going to the next stage of design development of the project.

Mike Breen
Technical Director



Mott MacDonald

Level 6, SAP House
224 Bunda St, Canberra City ACT 2601
PO Box 224 Civic Square ACT 2608Australia

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From:
Sent: Monday, 22 July 2013 3:50 PM
To: Jatheendran, Lingam (Lingam.Jatheendran@act.gov.au)
Cc: Breen, Mike J; Lucia Carson (Lucia.Carson@act.gov.au); Grdur, Michael (Michael.Grdur@act.gov.au);
Subject: RE: TaMS Query - Rivett Section 28 Block 13

Hi Lingam,

Thankyou for your response. Mott MacDonald have prepared a proposed services plan (refer attached) for inclusion into the Site Investigation report on the following basis:

1. Stormwater Tie
Mott MacDonald have identified that there is an existing public 525dia stromwater line outside the eastern boundary of the Site within adjacent Section 27 Block 4 – Urban Open Space. This existing stormwater line is located on the low side of the Site. It is considered appropriate for the service tie for Section 28 Block 13 to connect into the existing manhole along this line at the lower eastern corner of the block as shown on the proposed services plan attached.
2. Path Connection
The existing footpath through the Site currently provides access from Rivett shops to the path network within the open space system as well as neaby playground facilities. It is proposed that the existing footpath through the Site be removed and offsite pedestrian facilities be improved by providing footpath continuity to the existing carpark servicing the oval. It is anticipated that the existing footpath south of the development Site could be utilised to access the path network and the playground from the Rivett shops.
3. Vehicle Access
An indicative location for vehicle access has been shown on the proposed service plan. This location is clear of the existing 90 degree parking spaces adjacent to the western boundary of the Site. This proposed driveway location is also clear of the circulation isle of the carpark which serves Rivett shops. Note that the indicative location will provide for a similar arrangement to the existing access driveway for Section 28 Block 15 which is adjacent to the Site.

Rivett Place is a public road and is classified as an access street. There is no visual indication of pavement failure within Rivett Place and it is therefore considered appropriate that waste vehicles utilise Rivett Place to service the waste requirements of the proposed development. The road width of Rivett Place at the proposed access is approximately 7.5m and the verge is approximately 5.5m. It is anticipated that this width should allow a waste vehicle entering the development Site to be perpendicular at the block boundary.

Kind regards,

Civil Engineer
Mott MacDonald

Units 11 & 12, First Floor, Block C, Trevor Pearcey House,
28-30 Traeger Court, Bruce ACT 2617 Australia
www.mottmac.com |

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E |

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From: Jatheendran, Lingam [<mailto:Lingam.Jatheendran@act.gov.au>]
Sent: 18 July 2013 3:26 PM
To:
Cc: Grdur, Michael; Arul, Adrian; Breen, Mike J
Subject: RE: TaMS Query - Rivett Section 28 Block 13

You have to carry out further investigation in relation to (1) existing storm water network in the vicinity to identify possible connection, (2) the current use of the existing footpath and the impact of removing them 3) identify the safe location for vehicular access and the impact on other facilities in the vicinity, (4) any other territory plan issues etc

Please note that TAMS has no knowledge of the subject site, it is the responsibility of the consultant to investigate all the issues in consultation with LDA. TAMS will provide comments once a report is produced.

Regards

Lingam Jatheendran
Chief Engineer
Asset Acceptance Section | Operational Support Branch | Directorate Services Division
Territory & Municipal Services Directorate (TAMS) | ACT Government

☎ Ph: (02) 6207 6592 | 📠 Fax: (02) 6207 7484

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From:
Sent: Friday, 28 June 2013 12:10 PM
To: Jatheendran, Lingam
Cc: Grdur, Michael; Breen, Mike J
Subject: TaMS Query - Rivett Section 28 Block 13

Hi Lingham,

Mott MacDonald is undertaking a Site Investigation Report on behalf the LDA for Rivett Section 28 Block 13. Mott MacDonald is not currently aware of any proposed development for the site however it is listed as a Community Facilities Zone under the Territory Plan.

The following is a brief explanation of the current stormwater and access arrangements indicated on the drawings:

- No stormwater tie for Block 13;
- No vehicular access for Block 13;
- A footpath through the site linking a trunk path and play ground to Rivett shops.

Could you please review the sketch attached and provide in-principal approval for:

- Stormwater maintenance hole and service tie;
- The demolition of a footpath through Block 13;
- A new footpath connection to the Rivett Oval car park; and
- Location of proposed vehicular access to the site

Please do not hesitate to contact me should you require anything further.

Kind Regards,

Civil Design Drafter

Mott MacDonald

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Carson, Lucia

From: Breen, Mike J
Sent: Wednesday, 28 May 2014 8:50 AM
To: Carson, Lucia
Cc: Grdur, Michael
Subject: 13/28 Rivett Overland Flow

Lucia
Just letting you know I will be meeting with Adrian Arul at 10am this morning if you want to discuss this report.
Mike Breen

From: Breen, Mike J
Sent: Monday, 26 May 2014 1:46 PM
To: 'Carson, Lucia'
Cc: 'Grdur, Michael'
Subject: RE: 13/28 Rivett Overland Flow

Lucia
Please find attached report related to overland flow at Rivett.
If you comment prior to lodging with TAMS.
Mike Breen

From: Breen, Mike J
Sent: Friday, 11 April 2014 3:21 PM
To: 'Carson, Lucia'
Subject: RE: 13/28 Rivett Overland Flow

Lucia
Principle support from TAMS included in quote.
Mike Breen

From: Carson, Lucia [<mailto:Lucia.Carson@act.gov.au>]
Sent: Friday, 11 April 2014 2:15 PM
To: Breen, Mike J
Subject: FW: 13/28 Rivett Overland Flow

Mike,

Thank you for speaking with me this afternoon. I am pleased to accept your offer however, I also need you to include in principle support from TAMS in your quote. Could you please advise if this request is acceptable to you so that we can continue to go ahead with the above quote.

Many thanks & regards,

Lucia Carson
Project Officer
Site Preparation
Land Development Agency
Economic Development Directorate
Level 7 TransACT House
470 Northbourne Avenue

DICKSON ACT 2602
T: 6207 9604
F: 6207 7324
E: lucia.carson@act.gov.au

From: Breen, Mike J
Sent: Friday, 11 April 2014 11:45 AM
To: Grdur, Michael; Carson, Lucia
Subject: RE: 13/28 Rivett Overland Flow

Please find attached revised fee proposal as requested.
Mike Breen

From: Breen, Mike J
Sent: Thursday, 10 April 2014 1:45 PM
To: 'Grdur, Michael'
Subject: RE: 13/28 Rivett...

Michael
has asked to review the fee and scope as requested.
Please note that this fee is similar to the amount for the initial stormwater investigation undertaken for Chapman. Although we are familiar with the site the stormwater investigation requires offsite assessment including inspection to determine extent of contributing catchment.
Mike Breen

From: Grdur, Michael [<mailto:Michael.Grdur@act.gov.au>]
Sent: Wednesday, 9 April 2014 11:25 AM
To: Breen, Mike J
Subject: RE: 13/28 Rivett...

Mike,

Could you please review your fee proposal, it appears a little on the high side considering that you have already familiarised yourself with the site.

Regards

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From: Breen, Mike J
Sent: Wednesday, 9 April 2014 10:39 AM
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Cc: Grdur, Michael
Subject: RE: 13/28 Rivett...

Lucia/Michael
Further to our discussions yesterday please find attached overland flow investigation fee proposal for your consideration.
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Sent: Tuesday, 8 April 2014 9:42 AM

To: 'Carson, Lucia'
Subject: RE: 13/28 Rivett...

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Further to our conversation please find attached prelim stormwater report post SIR for Chapman.

The report assessed :

- Contributing catchment
- Estimated 100 Year ARI flow.
- Estimated overland flow in excess of pipe system
- Extent of overland flows across the site – indicated on a plan

A similar assessment could be undertaken for Rivett

Mike Breen

From: Carson, Lucia [<mailto:Lucia.Carson@act.gov.au>]
Sent: Friday, 4 April 2014 9:17 AM
To: Breen, Mike J
Subject: RE: 13/28 Rivett...

Morning Mike,

I believe Actew Water would have records of their stormwater system in that area by checking them we may be able to see if the stormwater system can cope with the 1 in 100 year flood.

Regards,

Lucia

From: Breen, Mike J
Sent: Thursday, 3 April 2014 5:20 PM
To: Carson, Lucia
Cc: Grdur, Michael
Subject: RE: 13/28 Rivett...

Lucia

From the survey we have established the low point in the kerb adjacent to 13/28 Rivett, refer attached sketch. This low point will form the spill point for overland flow in the event of major storm and/or blockage in stormwater pipe system.

The approximate overland flow path from the kerb through the block is also shown on the attachment. For discussion.

Mike Breen

From: Carson, Lucia [<mailto:Lucia.Carson@act.gov.au>]
Sent: Tuesday, 1 April 2014 4:29 PM
To: Breen, Mike J
Subject: FW: 13/28 Rivett...

Mike,

Attached is the survey for Rivett Block 13 Section 28 with your requested amendments.

Regards,

Lucia Carson
Project Officer
Site Preparation
Land Development Agency
Economic Development Directorate
Level 7 TransACT House
470 Northbourne Avenue
DICKSON ACT 2602
T: 6207 9604
F: 6207 7324
E: lucia.carson@act.gov.au

From:
Sent: Tuesday, 1 April 2014 4:25 PM
To: Carson, Lucia
Subject: 13/28 Rivett...

Lucia,

I have spoken to Mike just now and all is OK. Here is a new set of files with 0.1m contours. I will let you pass this on to him.

Cheers...

--

BW Fox Drafting & Consultant Services
Phone: 6258 7587
Mobile:
mail: |

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Carson, Lucia

From: Breen, Mike J
Sent: Wednesday, 28 May 2014 2:54 PM
To: Carson, Lucia
Cc:
Subject: FW: Pedestrian Assessment for Rivett Block 18 Section 28

Lucia
Contrary to the advice this morning it was Frank Yu that responded with comments on the pedestrian study, refer below.
If you could send me in bullet point form what was agreed verbally in your recent discussion I will forward to Frank to confirm agreement.
Mike Breen

From: Yu, Frank [mailto:Frank.Yu@act.gov.au]
Sent: Wednesday, 30 April 2014 3:28 PM
To: Breen, Mike J
Cc: Jatheendran, Lingam; Halestrap, Terry; Moniruzzaman, Asm
Subject: RE: Pedestrian Assessment for Rivett Block 18 Section 28

.ke
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2. Public consultation for the removal and rearrangement of the footpath.

Please contact me if you have any queries.

Kind Regards

Frank Yu
Senior Project Engineer
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(Ph: (02) 62052970 | Fax: (02) 6207 7484 | E-mail: frank.yu@act.gov.au)
"Great Services - Quality Assets - Better Lifestyles"

From: Breen, Mike J
Sent: Wednesday, 16 April 2014 10:07 AM
To: Halestrap, Terry
Cc: Carson, Lucia; Jatheendran, Lingam
Subject: Pedestrian Assessment for Rivett Block 18 Section 28

Terry
Further to previous correspondence with regard the proposal removal of an existing path across Block 13 (refer email trail below) please find attached a pedestrian assessment report.

This submission is provided for comment with the purpose of obtaining in principle approval before going to the next stage of design development of the project.

Mike Breen
Technical Director



Mott MacDonald

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PO Box 224 Civic Square ACT 2608Australia

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From:
Sent: Monday, 22 July 2013 3:50 PM
To: Jatheendran, Lingam (Lingam.Jatheendran@act.gov.au)
Cc: Breen, Mike J; Lucia Carson (Lucia.Carson@act.gov.au); Grdur, Michael (Michael.Grdur@act.gov.au);
Subject: RE: TaMS Query - Rivett Section 28 Block 13

Hi Lingam,

Thankyou for your response. Mott MacDonald have prepared a proposed services plan (refer attached) for inclusion into the Site Investigation report on the following basis:

1. **Stormwater Tie**
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Please do not hesitate to contact me should you require anything further.

Kind Regards,

Civil Design Drafter

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To: Breen, Mike J

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Regards,

Lucia Carson
Project Officer
Site Preparation
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Economic Development Directorate
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T: 6207 9604
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Carson, Lucia

From: Yu, Frank
Sent: Tuesday, 27 May 2014 3:18 PM
To: Carson, Lucia
Cc: Joseph, Gabriel; Jatheendran, Lingam; Uddin, Kamal
Subject: RE: Footpath changes for Rivett Block 13 Section 106

Hi Lucia

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Kind Regards

Frank Yu
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"Great Services - Quality Assets - Better Lifestyles"

From: Carson, Lucia
Sent: Tuesday, 27 May 2014 2:25 PM
To: Jatheendran, Lingam
Cc: Yu, Frank
Subject: RE: Footpath changes for Rivett Block 13 Section 106

Hi Lingam,

On 16th May I forwarded an email to Frank Yu confirming our discussions regarding footpath changes for Rivett Block 13 Section 106 and requested in principle support for those changes to take effect.

Frank Yu forwarded the email to you for response. As of today I have not received a reply from you. So that I can finalise the SIR I need in principle support from you for these changes to go ahead.

Regards,

Lucia Carson
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Site Preparation
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From: Yu, Frank
Sent: Monday, 19 May 2014 3:57 PM
To: Carson, Lucia
Cc: Jatheendran, Lingam
Subject: RE: Footpath changes for Rivett Block 13 Section 106

Lucia

I have forwarded your email to Lingam in our office. He will respond to your email.

Kind Regards

Frank Yu
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From: Carson, Lucia
Sent: Friday, 16 May 2014 1:41 PM
To: Yu, Frank
Subject: Footpath changes for Rivett Block 13 Section 106

Hi Frank

Appreciate very much your attendance at the meeting this morning. I would however like to confirm what we discussed and agreed to with the removal and extension of the footpath for Rivett Block 13 Section 28.

Confirming your agreement to the removal of the existing concrete footpath which passes through the southern end of the site and extending the path east of the site which will then connect to the footpath running north of the site.

Could you please forward your in principle agreement so that I can contact the consultant and have the SIR and costs amended to include the above changes.

Regards,

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Rivett Section 28 Block 13

Stormwater Investigation

May 2014

Land Development Agency



Rivett Section 28 Block 13



May 2014

Land Development Agency



Issue and revision record

Revision	Date	Originator	Checker	Approver	Description
1	26/05/2014	MB	CO	MB	Draft

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Executive Summary

Mott MacDonald has been engaged by the Land Development Agency to undertake an investigation of the potential implications of the existing stormwater overland flow path on Rivett Section 28 Block 13.

This report has been prepared in accordance with Mott MacDonald's fee proposal dated 11 April.

The findings of this investigation are as follows:

Site Survey

The survey confirms that overland flow will pond in the Rivett Place before spilling across the western kerb onto part of Block 13.

Catchment Flows

The catchment area of 13.5 Ha is a mixture of public roads and existing residential development.

The 100 year ARI flow from the catchment is estimated to be 2.7 m³/s

The estimated 100 Year ARI flow at Block 13 in excess of the capacity of the pipe system is 0.5 m³/s.

Existing Overland Flow across Block 13

This assessment has found that the overland flow will overtop the western kerb and verge of Rivett Place over a length of approximately 40m and spill across the southern parts of Block 13 and the gravel carpark in the adjacent Block 14.

The overland flow would generally be broad sheet flow with minimal depth.

Option to Cater for Overland Flow

It appears feasible to provide a separate reserve at the southern end of Block 13 adjacent to Block 14 to accommodate overland flow.

This reserve could be shaped to accommodate both a path and overland flow.

Detailed design of this reserve would need to incorporate measures to minimise the reduction in developable land.

The existing kerb levels in Rivett Place adjacent to Block 13 would need to be adjusted to assist in the conveyance of the overland flow over a more restricted width than is currently the case.

The location and value of existing trees would need to be considered in the detail design of the reserve.

1. Background

1.1 Introduction

This report investigates the issues associated a stormwater overland flow path that currently crosses Rivett Section 28 Block 13. Block 13 is bound by :

- North – Existing community facilities building on Block 9 Section 28
- East – Rivett public oval and facilities on Block 4 Section 27
- South – Existing community facilities and associated gravel car park on Block 14 Section 28
- West – public infrastructure of Rivett Place and carpark serving Rivett local shops.

Figure 1.1: Rivett Section 28 Block 13 Aerial Photograph (^ North)



1.2 Previous SIR

The Site Investigation Report of July 2013 for Rivett Section 28 Block 13 identified a potential overland flow path through the block which may be a constraint on development. This overland flow path appears to be aligned through Block 13 from a low point in Rivett Place towards the oval to the east.

The overland flow path had been identified in the Site Investigation report on the basis of a visual assessment on site and contour information of the surrounding area shown on ACTMAPi.

The Site Investigation indicated that to comply with the Design Standards for Urban Infrastructure the overland flow paths should not cross block leases.

1.3 Purpose of Report

The purpose of this report is to assess the potential development implications of the existing stormwater overland flow paths on Block 13 in accordance with the Mott MacDonald Fee Proposal dated 11 April 2014 including the identification of one option to cater for the overland flow.

This investigation report will form an appendix to the main Site Investigation Report completed for this site in July 2013.

2. Stormwater Assessment

*old stormwater pipes
can be removed & new ones put
in to collect overland flow
into gutter?*

2.1 Topographic Survey

A site survey has been undertaken of Block 13 and surrounds. This survey has assisted in determining the path of the overland flow within both Rivett Place and Block 13. The survey confirms that in the event of flow in excess of the capacity of the stormwater pipes the overland flow will pond in Rivett Place before spilling across the western kerb onto part of Block 13. The survey provides accurate levels of the western kerb which assists in determining the width of flow across the kerb and onto Block 13.

Figure 2.1: Section of Rivett Place kerb adjacent to Block 13



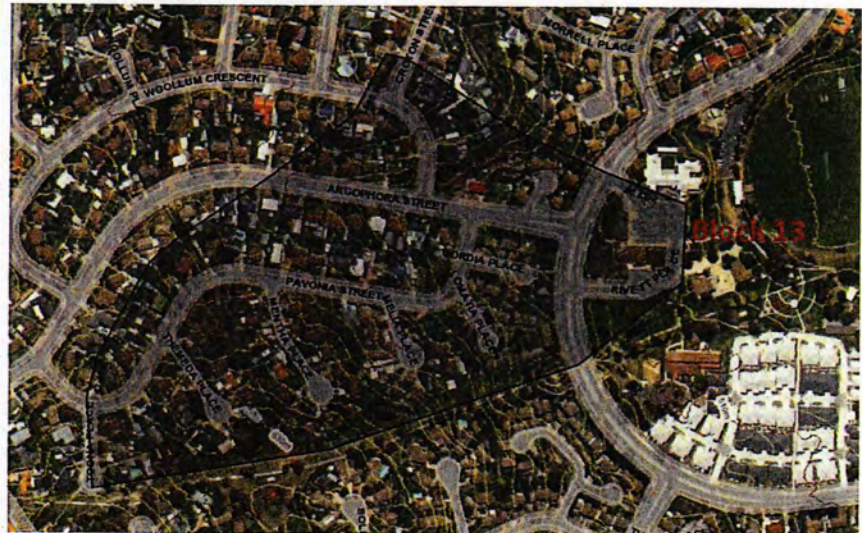
*low
curb.
reduce
spill
point*

2.2 Catchment

A review has been undertaken of existing catchment information including topographic plans and site visit, this check found :

- Catchment Area = 13.5Ha
- Catchment area is a mixture of public roads and existing residential development
- The catchment area is directly west of the Block 13 with the upper reaches of the catchment almost extending to Darwinia Terrace
- The main drainage path towards Block 13 is along Angophora and Pavonia Streets towards Bangalay Crescent into Rivett Place and the Rivett shops carpark.

Figure 2.1: Catchment Area (^ North)



2.3 100 Year ARI Flow

An assessment of the 100 year ARI flow has been carried out taking into account catchment size, land uses, slope of terrain etc. On this basis the 100 year ARI flow from the catchment is estimated to be 2.7 m3/s.

2.4 Overland Flow

Design Standards for Urban Infrastructure Part 1 Stormwater indicates that overland flow can be estimated on the basis of the "gap" flow ie the 100 year ARI flow less a proportion of the design capacity of the pipe system based on an assumed blockage factor.

The "gap" or overland flow directed towards Block 13 is reduced by the following :

- 900mm stormwater pipe in the carriageway of Bangalay Crescent serving the 13.5 Ha catchment.
- 450mm stormwater pipe serving the Rivett Place
- Bangalay Crescent / Rivett Place intersection which splits overland flows and partially diverts overland flow away from Rivett Place.

A blockage factor of 50% has been adopted in accordance the DUS stormwater design standard for both the 900mm and 450mm stormwater pipes.

Based on the grading of the Bangalay Crescent / Rivett Place intersection it is estimated that a majority (approximately 75%) of the overland flow in Bangalay Crescent falls towards Rivett Place and the Rivett shops carpark adjacent to Block 13. On this basis it is estimated that the 100 Year ARI flow in excess of the capacity of the pipe system is 0.5 m³/s at Block 13.

2.5 Extent of 100 Year ARI Flow

This assessment has found that the estimated overland flow of 0.5 m³/s will overtop the western kerb and verge of Rivett Place over a length of approximately 40m and spill across the southern parts of Block 13 and the adjacent Block 14. Block 14 contains an existing gravel carpark serving and adjacent community facility. The overland flow would generally be broad sheet flow with minimal depth. Flow across the kerb is expected to be less than 100mm in depth. Up to a 20m width of the southern end of Block 13 would be affected. The estimated extent of the 100 Year ARI flow on Block 13 is shown on the plan in Appendix A.

Figure 2.2: Overland Flow Path Block 13 & gravel carpark of Block 14



Figure 2.3: Block 14 including gravel carpark and community facilities



2.6 Option to Cater for Overland Flow

As part of a separate pedestrian assessment report for Block 13 TAMS required a new path along the southern boundary of the Block 13. TAMS also require that this path be located within a separate reserve of 6 metres minimum width. This reserve could be shaped to accommodate both a path and overland flow.

Detail design would need to be undertaken to determine the exact width of this reserve with the view to minimise the reduction in developable land taking into account :

- The western kerb levels of Rivett Place would need to be adjusted to assist in the conveyance of the overland flow over a more restricted width than is currently the case.
- Alignment of the path and shaped overland flow path would need to take into account the existing trees adjacent to the southern boundary of Block 13. It appears feasible to retain the existing high value tree and remove other trees in order to provide for an overland flow alignment close to the southern boundary of Block 13 thereby limiting the reduction in developable land. Discussion would be required with TAMS regarding the removal of these existing trees.

An indicative arrangement to accommodate overland flow in this manner is shown on plan in Appendix A.



Appendices

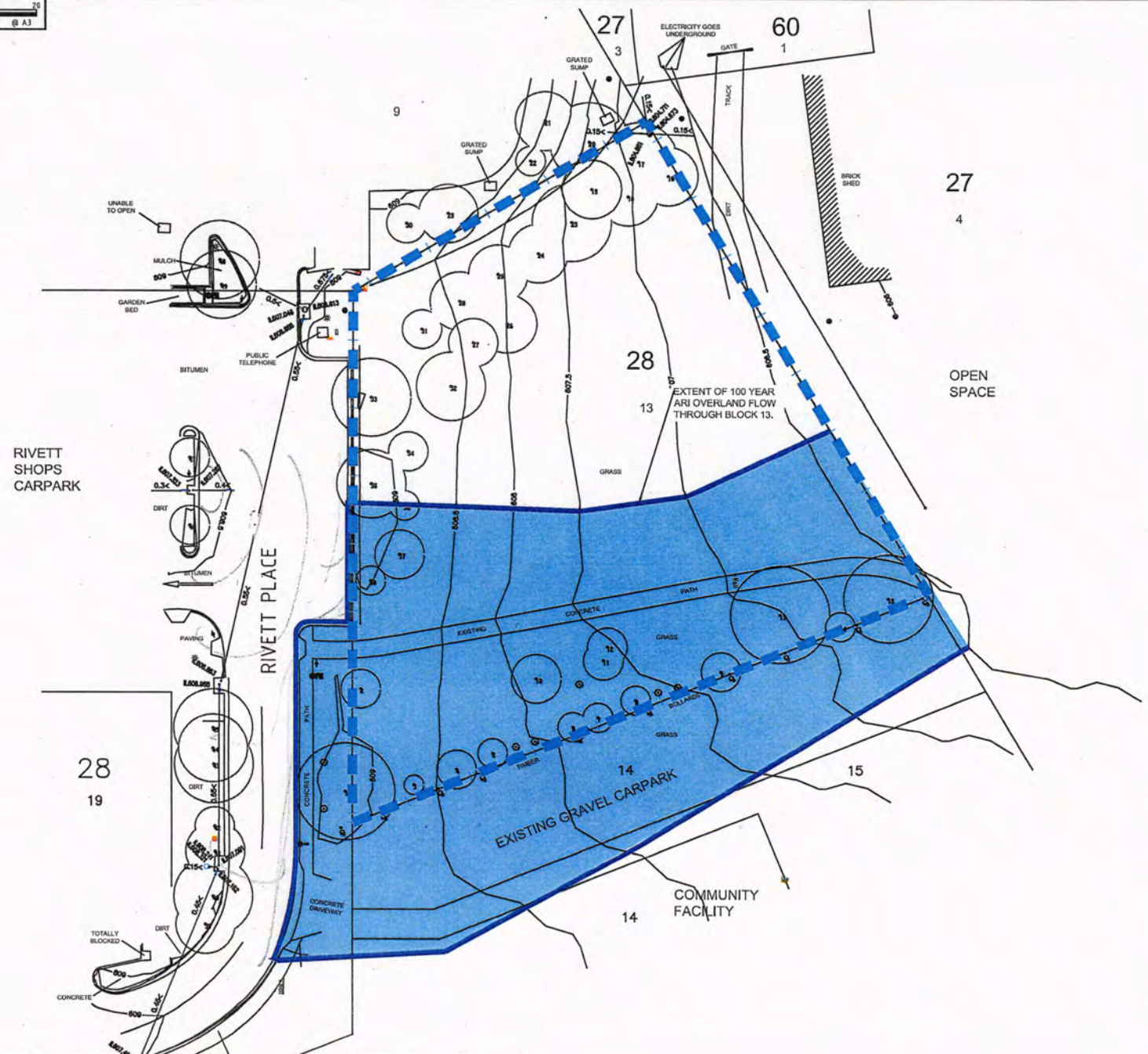
Appendix A. Plans

Appendix A. Plans

- A.1 Extent of Existing 100 Year ARI Overland Flow
- A.2 Option to Accommodate Overland Flow
- A.3 Existing Stormwater Pipe Layout Rivett

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PLAN SCALE 1:400 @ A3



Notes

Key to symbols

EXISTING FEATURES	
	EXISTING CONTOURS 0.5m INTERVALS
	BOUNDARY BLOCK 13
	EXISTING TREES

Reference drawings

P1	23.05.14	AV	FOR INFORMATION	MB	MB
Rev	Date	Drawn	Description	Chk'd	App'd



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Title
**RIVETT SECTION 28 BLOCK 13
EXTENT OF EXISTING
100 YEAR ARI OVERLAND FLOW**

Designed	A. Valeri	Eng check	M. Breen
Drawn	A. Valeri	Coordination	M. Breen
Dwg check	M. Breen	Approved	M. Breen

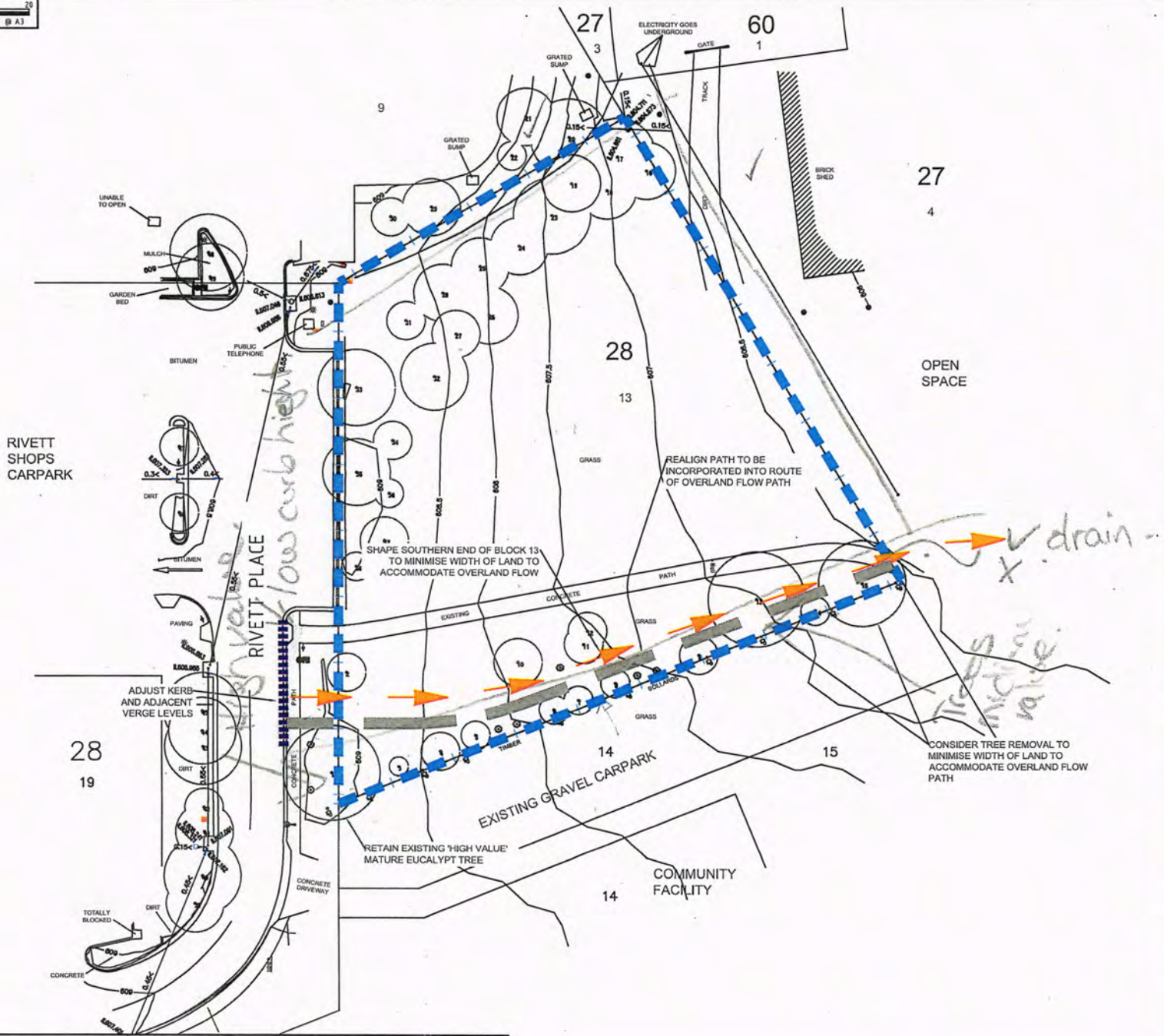
Scale at A3	Status	Rev	Security
1:400	PRE	P1	STD

Drawing Number
MMD-311006-C-SK-CC05-XX-0001

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10 8 6 4 2 0 20
PLAN SCALE 1:400 @ A3



Notes

Key to symbols

EXISTING FEATURES

- 607 ——— EXISTING CONTOURS 0.5m INTERVALS
- BOUNDARY BLOCK 13
- EXISTING TREES

PROPOSED FEATURES

- OVERLAND FLOWPATH
- KERB ADJUSTMENT
- NEW PATH

Reference drawings

PI	23.05.14	AV	FOR INFORMATION	MB	MB
Rev	Date	Drawn	Description	Ch'No	App'li

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RIVETT SECTION 28 BLOCK 13
OPTION TO ACCOMMODATE OVERLAND FLOW

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Drawn	A Vahel	Coordination	M Breen
Design check	M Breen	Approved	M Breen
Scale at A3	1:400	Status	PRE
Rev	P1	Security	STD

Drawing Number

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A.3 Existing Stormwater Pipe Layout Rivett

