



Our Reference: 2017/001196

17 August 2018

Sun Shine

By email: [foi+request-4656-b17a3f3d@righttoknow.org.au](mailto:foi+request-4656-b17a3f3d@righttoknow.org.au)

Dear Sun Shine,

### Your Freedom of Information Request

I refer to your request of 20 June 2018 under the *Freedom of Information Act 1982* (the FOI Act) seeking access to a copy of the document:

I seek access under the Freedom of Information Act 1982 (FOI Act) to information regarding the Australian Radiation Protection and Nuclear Safety Agency's (ARPANSA) project to expand its Radioactive Waste Store.

ARPANSA provided information to staff via Powerpoint in April 2018 dealing with the waste store expansion project at ARPANSA's Yallambie office. This presentation addressed the proposed transport and storage of additional waste in Yallambie and timelines for project completion. Request access to documents that describe the project, including the presentation made to staff in April 2018.

This request involves no information of a personal nature or information involving third-parties.

I am an officer authorised under section 23 of the FOI Act to make decisions with respect to applications for access to documents under the FOI Act and this letter sets out my decision on your request.

### Decision

I have identified nine documents relevant to your request and have decided to release the documents to you in part.

My reasons for making this decision are set out in Attachment A to this letter. Attachment B is a schedule setting out each identified document and detailing my decision in relation to each document.

I have enclosed extracts of the provisions of the FOI Act relevant to your request and my decision at Attachment C to this letter.

You will note that deletions have been made in the document attached, in accordance with section 22 of the FOI Act. The material has been deleted on the basis that disclosure of the information would involve a substantial adverse effect on the proper and efficient conduct of the operations of an agency within the terms of section 47E, unreasonable disclosure of personal information within the terms of section 47F, unreasonably affect a person adversely in respect of his or her lawful business or professional affairs of an

organisation and, as it would on balance be contrary to the public interest to disclose the personal information, it is exempt under section 31B.

### **Review Rights**

You are entitled to seek review of this decision. Your rights in this regard are set out at Attachment D to this letter.

You may also complain to the Commonwealth Ombudsman about the way your request has been handled and Attachment D also sets out your rights of complaint and how to exercise them.

### **Publication of information in accessed documents.**

ARPANSA must publish information that has been released in response to each freedom of information access request, subject to certain exceptions, in what is known as a "disclosure log".

The disclosure log requirement does not apply to personal information about any person if it would be unreasonable to publish the information or to information about the business, commercial, financial or professional affairs of any person if publication of that information would be unreasonable. ARPANSA is not required to consult you on any decision to publish information that is released to you and the decision to publish information is not subject to internal review by ARPANSA or the Australian Information Commissioner. Any person can however, make a complaint to the Australian Information Commissioner about how an agency handles an FOI request.

I advise you that the document that will be placed on the ARPANSA disclosure log will be the same as the document released to you.

ARPANSA's disclosure log can be found at <http://www.arpansa.gov.au/AboutUs/disclosure.cfm>.

### **Contacts**

If you require clarification of any of the matters set out in this letter please contact Martin Reynolds on 03 9433 2349 or [foi@arpansa.gov.au](mailto:foi@arpansa.gov.au).

Yours sincerely

A handwritten signature in black ink, appearing to read 'Martin Reynolds', written over a horizontal line.

Martin Reynolds  
General Counsel



## ATTACHMENT A – REASONS FOR DECISION

### Material taken into account

In making my decision, I had regard to the following:

- The terms of your request;
- The content of the documents to which you sought access;
- Advice from ARPANSA officers with responsibility for matters relating to the documents to which you sought access;
- The relevant provisions of the FOI Act;
- ARPANSA's guidance material on the FOI Act, and
- Guidelines on FOI, available on the Office of the Australian Information Commissioner website.

### Findings of fact and reasons for decision

Where the schedule of documents indicates an exemption claim has been applied to a document or part of document, my findings of fact and reasons for deciding that the exemption provision applies to that document or part of document are set out below.

### Exemptions

The schedule of documents identifies the relevant sections of the Act under which exemptions have asserted in respect of the document. My reasons for finding particular exemptions are set out below.

### Section 22 deletion of exempt matter or irrelevant material

Section 22 of the Act allows for the deletion of information which is either exempt or which is irrelevant to the scope of the request. You have specifically requested access to documents that describe the ARPANSA Waste Store Expansion project, including a presentation made to staff in April 2018. Documents 2, 3, 5, 6, 7 and 8 in the attached Schedule of Documents all deal with various matters only some of which relate to the subject matter of your request. Where a matter irrelevant to your request is discussed in the identified documents, the matter has been deleted from the document and you have been provided with an edited copy of the document.

### Section 22(1)(a)(i) – material which is exempt

Where a decision is made to refuse access to a document on the ground that it is an exempt document, section 22 allows an agency to make an edited copy of the document with the exempt material deleted. You have been provided with such edited copies of documents. The schedule identifies the relevant section of the Act under which the exempt material has been deleted. My reasons for claiming the particular exemption are set out below.

### Section 47E - certain operations of agencies

Relevantly, section 47E provides that a document is conditionally exempt if its disclosure would, or could reasonably be expected to, have a substantial adverse effect on the proper and efficient conduct of the operations of an agency.

In considering this issue, I have taken into account the fact that release of documents is unconditional and no restrictions can be placed on the subsequent use of the documents. This is sometimes referred to as release to the “world-at-large”.

The subject matter of documents 1, 2, 7 and 9 described in the attached Schedule of Documents is radioactive waste at the Yallambie campus of ARPANSA and some material contained in those documents reveals the exact physical location, both present and future, of radioactive sources within that campus. Some of these radioactive sources could be of interest for malicious use and advertising the whereabouts of such sources with more specificity than is currently available to the public could reasonably be expected to adversely affect the security procedures required and the safety of the site.

I find that the requested document is conditionally exempt under section 47E of the FOI Act.

### **Section 47G - business**

Relevantly, section 47G conditionally exempts documents where disclosure would disclose information concerning the business, commercial or financial affairs of an organisation or undertaking, where the disclosure of the information would, or could reasonably be expected to, unreasonably affect that organisation or undertaking in respect of its lawful business, commercial or financial affairs.

The subject matter of documents 2 and 6 described in the attached Schedule of Documents include material which discloses the pricing strategies of organisations entering into commercial transactions with ARPANSA. There is no doubt that this is information concerning the business, commercial or financial affairs of that organisation. Were these pricing strategies to become publically available, this would put the organisation at a commercial disadvantage in bidding for future work. I find that disclosure of the material would, or could reasonably be expected to, unreasonably affect that organisation or undertaking in respect of its lawful business, commercial or financial affairs.

Accordingly, I find that the document is conditionally exempt under section 47G.

### **Section 47F – Public interest conditional exemption - Personal privacy**

Section 47F conditionally exempts a document if its disclosure would involve the unreasonable disclosure of personal information about any person (including a deceased person).

#### *Personal information*

Personal information is defined in section 4 of the FOI Act as:

- Information or an opinion, whether true or not, and whether recorded in a material form or not, about an individual or an individual who is reasonably identifiable.

The elements of ‘personal information’ are:

- i. it relates only to a natural person (not, for example, a company);
- ii. it says something about the individual;
- iii. it may be in the form of an opinion, it may be true or untrue; and
- iv. Is information about an individual or an individual who is reasonably identifiable.

For documents 2, 4, 8 and 9 in the attached Schedule of Documents where section 47F is claimed, I have found that some information in the documents is personal information as it discloses the names of certain

individuals together with other information such as signatures, mobile telephone numbers and email addresses.

#### *Disclosure unreasonable*

If information is personal information, it will be exempt if disclosure would be 'unreasonable'. There are a range of factors in deciding whether or not disclosure would be unreasonable, including:

- i. the nature of the information, i.e. it should not be bland or common place;
- ii. the circumstances in which the information was obtained;
- iii. the current relevance of the information;
- iv. the stated object of the legislation in section 3 of the Act being to facilitate and promote the disclosure of information;
- v. the extent to which the person is a public figure;
- vi. the extent to which the information is already a matter of public knowledge;
- vii. whether there was any expectation of confidentiality; and
- viii. whether the information would shed light on the workings of government.

I find that disclosure of the documents conditionally exempted under section 47F would involve unreasonable disclosure of personal information. Release of the personal information would be unreasonable because the information to be disclosed would provide a means to facilitate unwanted and unwelcome contact from strangers and, taken together, the information may allow attempts at identity theft or fraud.

Accordingly, I am satisfied that the documents are exempt under section 47F.

#### **Public interest**

Access must generally be given to a conditionally exempt document unless it would be contrary to the public interest (see section 11A). In considering this issue, I have taken into account the following public interest factors in favour of and against disclosure:

#### *Factors in favour of disclosure*

Factors favouring access to the document in the public interest include whether access to the document would do any of the following:

- a. promote the objects of this Act (including all the matters set out in sections 3 and 3A);
- b. inform debate on a matter of public importance;
- c. promote effective oversight of public expenditure; and
- d. allow a person to access his or her own personal information.

I have also taken into consideration any guidelines issued by the Australian Information Commissioner issued under section 11B(5) of the FOI Act. In this case, I have not identified any public interest grounds other than those listed in section 11B of the FOI Act.

The document does not reveal any information about the Government's operations, in particular the policies, rules, guidelines, practices and codes of conduct followed by the Government in its dealings with members of the community or reveal the reason for a government decision or any background or contextual information that informed the decision. Disclosure of the document will not enhance the scrutiny of government decision making, but will contribute to open and transparent government. For these reasons I do not consider that any significant weight should be given to the public interest in promoting the objects of the FOI Act.

While some members of the public may have an interest in the subject matter of the document, it is not apparent that it describes a matter of public importance and, therefore, I do not consider that any significant weight should be given to the public interest in informing debate on a matter of public importance.

While the disclosure of the document would give visibility to one item of ad hoc government expenditure, it would appear unlikely that disclosure would contribute to promoting effective oversight of government expenditure and, so, this public interest holds only nominal weight.

*Factors against disclosure*

- a. the interest in preserving the efficient and proper functioning of government;
- b. the person's personal information is not publicly known;
- c. the person to whom the information relates is not known to be associated with the matters dealt with in the document;
- d. the interest in preserving the security of secure Commonwealth sites;
- e. the interest in minimising the risks to the safety of the public from persons with malicious intent from accessing dangerous materials;
- f. the information is not available from public sources;
- g. the interest in allowing third parties to interact with government without risking loss of commercially sensitive information; and
- h. disclosure could reasonably be expected to harm the interests of a third party going about their lawful business.

I consider that there is a strong public interest in;

- a. protecting the security and safety of Commonwealth staff, in particular, and, more generally, the Australian people; and
- b. in government being able to engage with third parties in the performance of government functions and in those third parties being able to deal with government without their legitimate interests and lawful business being damaged by the mere fact of that dealing.

In my view, in relation to the documents, the factors against disclosure outweigh the factors in favour of disclosure as disclosure of the conditionally exempt material would not promote the objectives of the FOI Act, would add nothing to any ongoing debate of public importance, and would make no contribution to governmental accountability.

Taking these matters into account, I find that it would, on balance, be contrary to the public interest to release the documents in full. The documents are therefore exempt under sections 47E, 47F and 47G.

I have also found that the exempt material can be deleted from the documents and an edited copy of them provided to you.



## ATTACHMENT B – SCHEDULE OF RELEVANT DOCUMENTS

Legend of statutory provisions referenced:

<b>Doc No.</b>	<b>Document Title</b>	<b>Pages</b>	<b>Released</b>	<b>Section</b>
1	Project Brief	18	Part	s47E
2	Executive Group Briefing Paper and Attachments	11	Part	s22,s47E,s47F,s47G
3	Project Proposal	3	Part	s22
4	Email: Re Design PO for ARPANSA Waste Store	2	Part	s47F
5	Staff update	2	Part	s22
6	Business Case	5	Part	s22,s47G
7	Staff Presentation	16	Part	s22,s47E
8	Email: ARPANSA Waste Store – Design Kick Off Meeting Notes	5	Part	s22,s47F
9	Construction RFQ and attachments	28	Part	s47Es47F



## ATTACHMENT C – RELEVANT FOI ACT PROVISIONS

### 11A Access to documents on request

#### *Scope*

- (1) This section applies if:
  - (a) a request is made by a person, in accordance with subsection 15(2), to an agency or Minister for access to:
    - (i) a document of the agency; or
    - (ii) an official document of the Minister; and
  - (b) any charge that, under the regulations, is required to be paid before access is given has been paid.

- (2) This section applies subject to this Act.

Note: Other provisions of this Act are relevant to decisions about access to documents, for example the following:

- (a) section 12 (documents otherwise available);
- (b) section 13 (documents in national institutions);
- (c) section 15A (personnel records);
- (d) section 22 (access to edited copies with exempt or irrelevant matter deleted).

#### *Mandatory access—general rule*

- (3) The agency or Minister must give the person access to the document in accordance with this Act, subject to this section.

#### *Exemptions and conditional exemptions*

- (4) The agency or Minister is not required by this Act to give the person access to the document at a particular time if, at that time, the document is an exempt document.

Note: Access may be given to an exempt document apart from under this Act, whether or not in response to a request (see section 3A (objects—information or documents otherwise accessible)).

- (5) The agency or Minister must give the person access to the document if it is conditionally exempt at a particular time unless (in the circumstances) access to the document at that time would, on balance, be contrary to the public interest.

Note 1: Division 3 of Part IV provides for when a document is conditionally exempt.

Note 2: A conditionally exempt document is an exempt document if access to the document would, on balance, be contrary to the public interest (see section 31B (exempt documents for the purposes of Part IV)).

Note 3: Section 11B deals with when it is contrary to the public interest to give a person access to the document.

- (6) Despite subsection (5), the agency or Minister is not required to give access to the document at a particular time if, at that time, the document is both:
  - (a) a conditionally exempt document; and
  - (b) an exempt document:
    - (i) under Division 2 of Part IV (exemptions); or
    - (ii) within the meaning of paragraph (b) or (c) of the definition of *exempt document* in subsection 4(1).

## 11C Publication of information in accessed documents

### *Scope*

- (1) This section applies to information if an agency or Minister gives a person access to a document under section 11A containing the information, except in the case of any of the following:
  - (a) personal information about any person, if it would be unreasonable to publish the information;
  - (b) information about the business, commercial, financial or professional affairs of any person, if it would be unreasonable to publish the information;
  - (c) other information of a kind determined by the Information Commissioner under subsection (2), if it would be unreasonable to publish the information;
  - (d) any information, if it is not reasonably practicable to publish the information under this section because of the extent of any modifications to a document (or documents) necessary to delete information mentioned in paragraphs (a) to (c).
- (2) The Information Commissioner may, by legislative instrument, make a determination for the purposes of paragraph (1)(c).

### *Publication*

- (3) The agency, or the Minister, must publish the information to members of the public generally on a website by:
  - (a) making the information available for downloading from the website; or
  - (b) publishing on the website a link to another website, from which the information can be downloaded; or
  - (c) publishing on the website other details of how the information may be obtained.

## 22 Access to edited copies with exempt or irrelevant matter deleted

### *Scope*

- (1) This section applies if:
  - a. an agency or Minister decides:
    - (i) to refuse to give access to an exempt document; or
    - (ii) that to give access to a document would disclose information that would reasonably be regarded as irrelevant to the request for access; and
  - b. it is possible for the agency or Minister to prepare a copy (an *edited copy*) of the document, modified by deletions, ensuring that:
    - (i) access to the edited copy would be required to be given under section 11A (access to documents on request); and
    - (ii) the edited copy would not disclose any information that would reasonably be regarded as irrelevant to the request; and
  - c. it is reasonably practicable for the agency or Minister to prepare the edited copy, having regard to:
    - (i) the nature and extent of the modification; and
    - (ii) the resources available to modify the document; and
  - d. it is not apparent (from the request or from consultation with the applicant) that the applicant would decline access to the edited copy.

### *Access to edited copy*

- (2) The agency or Minister must:
  - a. prepare the edited copy as mentioned in paragraph (1)(b); and

- b. give the applicant access to the edited copy.

*Notice to applicant*

- (3) The agency or Minister must give the applicant notice in writing:
  - a. that the edited copy has been prepared; and
  - b. of the grounds for the deletions; and
  - c. if any matter deleted is exempt matter—that the matter deleted is exempt matter because of a specified provision of this Act.
- (4) Section 26 (reasons for decision) does not apply to the decision to refuse access to the whole document unless the applicant requests the agency or Minister to give the applicant a notice in writing in accordance with that section.

### **31B Exempt documents for the purposes of this Part**

A document is *exempt* for the purposes of this Part if:

- a. it is an exempt document under Division 2; or
- b. it is conditionally exempt under Division 3, and access to the document would, on balance, be contrary to the public interest for the purposes of subsection 11A(5).

Note 1: A document is an *exempt document* for the purposes of this Act (see subsection 4(1) if:

- a. it is exempt under this section; or
- b. it is exempt because of section 7 (exemption of certain persons and bodies); or
- c. it is an official document of a Minister that contains matters not relating to the affairs of an agency or a Department of State.

Note 2: Access must generally be given to a conditionally exempt document unless it would be contrary to the public interest (see section 11A).

### **47E Public interest conditional exemptions—certain operations of agencies**

A document is conditionally exempt if its disclosure under this Act would, or could reasonably be expected to, do any of the following:

- (a) prejudice the effectiveness of procedures or methods for the conduct of tests, examinations or audits by an agency;
- (b) prejudice the attainment of the objects of particular tests, examinations or audits conducted or to be conducted by an agency;
- (c) have a substantial adverse effect on the management or assessment of personnel by the Commonwealth, by Norfolk Island or by an agency;
- (d) have a substantial adverse effect on the proper and efficient conduct of the operations of an agency.

Note: Access must generally be given to a conditionally exempt document unless it would be contrary to the public interest (see section 11A).

### **47F Public interest conditional exemptions-personal privacy**

*General rule*

- (1) A document is conditionally exempt if its disclosure under this Act would involve the unreasonable disclosure of personal information about any person (including a deceased person).
- (2) In determining whether the disclosure of the document would involve the unreasonable disclosure of personal information, an agency or Minister must have regard to the following matters:
  - a. the extent to which the information is well known;

- b. whether the person to whom the information relates is known to be (or to have been) associated with the matters dealt with in the document;
  - c. the availability of the information from publicly accessible sources;
  - d. any other matters that the agency or Minister considers relevant.
- (3) Subject to subsection (5), subsection (1) does not have effect in relation to a request by a person for access to a document by reason only of the inclusion in the document of matter relating to that person.

*Access given to qualified person instead*

- (4) Subsection (5) applies if:
- a. a request is made to an agency or Minister for access to a document of the agency, or an official document of the Minister, that contains information concerning the applicant, being information that was provided by a qualified person acting in his or her capacity as a qualified person; and
  - b. it appears to the principal officer of the agency or to the Minister (as the case may be) that the disclosure of the information to the applicant might be detrimental to the applicant's physical or mental health, or well-being.
- (5) The principal officer or Minister may, if access to the document would otherwise be given to the applicant, direct that access to the document, so far as it contains that information, is not to be given to the applicant but is to be given instead to a qualified person who:
- a. carries on the same occupation, of a kind mentioned in the definition of qualified person in subsection (7), as the first-mentioned qualified person; and
  - b. is to be nominated by the applicant.
- (6) The powers and functions of the principal officer of an agency under this section may be exercised by an officer of the agency acting within his or her scope of authority in accordance with arrangements referred to in section 23.
- (7) In this section:

**qualified person** means a person who carries on, and is entitled to carry on, an occupation that involves the provision of care for the physical or mental health of people or for their well-being, and, without limiting the generality of the foregoing, includes any of the following:

- a. a medical practitioner;
- b. a psychiatrist;
- c. a psychologist;
- d. a counsellor;
- e. a social worker.

Note: Access must generally be given to a conditionally exempt document unless it would be contrary to the public interest (see section 11A)

#### **47G Public interest conditional exemptions—business**

- (1) A document is conditionally exempt if its disclosure under this Act would disclose information concerning a person in respect of his or her business or professional affairs or concerning the business, commercial or financial affairs of an organisation or undertaking, in a case in which the disclosure of the information:
- (a) would, or could reasonably be expected to, unreasonably affect that person adversely in respect of his or her lawful business or professional affairs or that organisation or undertaking in respect of its lawful business, commercial or financial affairs; or
  - (b) could reasonably be expected to prejudice the future supply of information to the Commonwealth, Norfolk Island or an agency for the purpose of the administration of a

law of the Commonwealth or of a Territory or the administration of matters administered by an agency.

- (2) Subsection (1) does not apply to trade secrets or other information to which section 47 applies.
- (3) Subsection (1) does not have effect in relation to a request by a person for access to a document:
  - (a) by reason only of the inclusion in the document of information concerning that person in respect of his or her business or professional affairs; or
  - (b) by reason only of the inclusion in the document of information concerning the business, commercial or financial affairs of an undertaking where the person making the request is the proprietor of the undertaking or a person acting on behalf of the proprietor; or
  - (c) by reason only of the inclusion in the document of information concerning the business, commercial or financial affairs of an organisation where the person making the request is the organisation or a person acting on behalf of the organisation.
- (4) A reference in this section to an undertaking includes a reference to an undertaking that is carried on by, or by an authority of, the Commonwealth, Norfolk Island or a State or by a local government authority.
- (5) For the purposes of subsection (1), information is not taken to concern a person in respect of the person's professional affairs merely because it is information concerning the person's status as a member of a profession.

Note: Access must generally be given to a conditionally exempt document unless it would be contrary to the public interest (see section 11A).



**ATTACHMENT D INTERNAL REVIEW OF DECISION BY ARPANSA**

You have the right to apply for an internal review of this decision in accordance with Part VI of the *Freedom of Information Act 1982* (FOI Act). If you make an application for review, the CEO of ARPANSA will appoint an officer of ARPANSA to conduct a review and make a completely fresh decision on the merits of the case.

If you wish to exercise this review right, you must apply in writing for a review of the decision within 30 days of receipt of this letter. You do not have to pay any fees or proceeding charges for internal the review. No particular form is required to apply for review although it is desirable to set out in the application the grounds on which you consider that the decision should be changed.

The application for review of the decision should be sent to [foi@arpansa.gov.au](mailto:foi@arpansa.gov.au) or:  
FOI & Privacy Officer  
ARPANSA  
619 Lower Plenty Road  
YALLAMBIE VIC 3085

If you make an application for internal review and a decision is not made by us within 30 days of receiving the application, the original decision will be deemed to be affirmed in accordance with section 54D of the FOI Act and you will be entitled to make an application to the Information Commissioner in accordance with sections 54L and 54M of the FOI Act. Similarly, if you are dissatisfied with ARPANSA’s decision on internal review, you may also apply for review of this decision to the Information Commissioner.

**Review of Decision by the Australian Information Commissioner (AIC)**

You do not have to seek an internal review of the decision directly from ARPANSA. You may wish to seek a review of the decision from the AIC. If so, you must apply in writing and you can lodge your application in a number of ways. More information is available on the AIC’s website at: <https://www.oaic.gov.au/freedom-of-information/foi-review-process>.

**Complaints to the AIC or the Commonwealth Ombudsman**

You may complain to the Commonwealth Ombudsman or the AIC concerning action taken by an agency in the exercise of the powers or the performance of functions under the FOI Act. There is no fee for making a complaint. The Ombudsman or the AIC will conduct a completely independent investigation of your complaint.

You may complain to the Ombudsman either orally, in person, on-line or in writing and to the AIC in writing or by completing the on-line form. Relevant addresses are:

<p>Commonwealth Ombudsman  GPO Box 442  CANBERRA ACT 2601.</p> <p>Web: <a href="http://www.ombudsman.gov.au">www.ombudsman.gov.au</a></p>	<p>The Australian Information Commissioner  GPO Box 2999 <b>OR</b> GPO Box 5218  Canberra ACT 2601 Sydney NSW 2001</p> <p>Web: <a href="https://www.oaic.gov.au/freedom-of-information/foi-complaints">https://www.oaic.gov.au/freedom-of-information/foi-complaints</a></p>
---	--



# Project Brief & RFQ– Waste Storage Area Yallambie

<b>Project Name:</b>	Waste Storage Area - Yallambie		
<b>Date:</b>	29/11/2017	<b>Release:</b>	Issue for Design Quotation
<b>Author:</b>	A.Clegg		
<b>Owner:</b>	A.Clegg		
<b>Container:</b>	TBA		

Revision Date	Previous Revision Date	Summary of Changes	Changes Marked
16/11/2017	V0	Draft	-
29/11/2017	V1	Draft for Comment & Stakeholder engagement	-
13/12/2017	V2	Issued for Design Quotation	-

## Project Definition:

The ARPANSA Yallambie Facility is located at 619 Lower Plenty Road, Yallambie, Vic 3085. It is proposed to create a Waste Storage Area at this site located in the rear ground floor **s 47E -** Some minor construction works are required to increase the size and capacity of the proposed waste storage area. These works are broadly to extend the internal block wall of the Modular Room into the **s 47E - operations**.

## Request for Quotation (RFQ):

A quotation is required to provide a detailed design and documentation to allow sourcing of 3 quotations from builders to fulfil ARPANSA governance requirements. Quotation due **22 December 2017**

The quotation should include the following design requirements:

- Production of Drawings (both .dwg and .pdf format) for tender/construction and as-built issues for **s 47E -** changes and also drum/pallet/racking layout drawings.
- Production of a Scope of works for builder
- Allowance for the Designer to liaise with Building Surveyor and arrange permit documentation for ARPANSA

- Design to comply with Commonwealth Requirements including safety in design.
- Confirmation that floor loadings would be adequate.
- Calculation and confirmation of maximum loadings of existing floor and also walls with racking. (This is to provide information of design limitations for any future changes of the area or capacity).
- Design issue date 30/01/2018
- Final inspection of construction with ARPANSA and assistance with defect listings.

## Project Functionality:

The proposed waste storage area in the s 47E - [REDACTED] will be to house 210 drums of building material waste. Drums used for this storage are of the 44-gallon type drums. These will be transported to ARPANSA on "Chep Type" pallets. Each pallet will contain four drums. Each drum is rated at maximum of 220 kg and mass of contents will not exceed this. Of note is that whilst this is the maximum drum load and weight some drums may be significantly lighter than this due to contents being lighter weight (e.g. wood beams). A detailed drum manifesto (via ANSTO) will be available with drum referencing contents and weights. For the purposes of project design and construction, the maximum drum loading of 220 kg shall be assumed.

The waste storage area in the s 47E - [REDACTED] will require removal of existing equipment, sealing of floors and wall penetrations and painting. The final arrangement will include installation of air flow, appropriate locking, local alarms and shelving to accommodate drums.

Drum configuration inside the proposed expanded s 47E - [REDACTED] /new Waste Storage Room is for:

- A lower level of drums on pallets to be mounted on the concrete floor.
- A second, higher level, is proposed to be mounted on shelving directly above the lower level of drums. For design purposes it should be assumed that a third level of shelving is included so that the drums may be arranged three-high.
- Drum location and placement is to facilitate regular visual inspections, air circulation and accessibility for any future drum/pallet handling via a forklift (e.g. Crown model 25WRTL102 or similar unit).

## Building Changes:

### No Change:

Door from s 47E - operations [REDACTED] (Existing electric "Kara" brand lock installed)

Courtyard

Basement Linac area

Plant Room Ramp

**Changes:**

Extend § 47E - [REDACTED] – Refer Attachment A.

Engineering consultant engagement and report for;

- core drilling,
- floor loadings, and
- wall strength for proposed drums and racking.

Core drilling for chiller unit pipe rerouting

Remove data and electrical cable trays.

New § 47E - [REDACTED] walls.

Internal roof above modulator room to be extended across new walls.

Seal wall and floor penetrations. (leaving space for data cable runs and draw wires). Suggested approach is inserting steel bridge to maintain cable route for future cable runs and caulk/seal with cement. Inspection recommended.

Ceiling, wall and floor caulk seal, prep and paint.

**Chiller:**

Existing Linac Chiller Unit MTA EVO 051 (located in § 47E - [REDACTED]):

- Relocation/recommissioning and Split system pipe rerouting. Location in cooling tower area (Level 1)
- Install 3 phase outdoor switched socket switchable for Chiller Unit (MTA EVO 051) 7.90kW
- Install basic galvanised iron / colour-bond roof in cooling tower area covering. Function is to cover Chiller Unit ( MTA EVO 051)
- Positioning – allocation to leave adequate space for a further new linac similar chiller unit to be install adjacent in separate project during April – June 2018.
- Supply/install of piping, Armaflex insulation associated with Chiller relocation

**Fire Systems:**

Fire Systems Upgrades where required for compliance (consolidation of alarms, out of date sprinkler head replacement, thermal and smoke detector replacement if necessary).

If necessary, upgrades of legacy for present day code compliance.

Building Certifier (including Fire Systems )

**Security:**

Security Systems – Mechanical or electric door combination locks. No other security is required.

**Monitoring Alarms:**

Install 3 wireless Radon detectors. Position to be discussed with ARPANSA (Corentium Pro Airthings units Detectors). Information available upon request.

**Electrical:**

Install - 3 Phase weather proof supply suitable for 7.9kW installed in L1 Cooling Tower area.

Retain existing GPOs in original s 47E - operations areas where possible. No further GPO's to be installed in s 47E - .

Replace s 47E - lighting with energy efficient LED lighting. One way switching if one door.

All circuits shall be labelled. All switches and GPO's shall be labelled with the source distribution board number and circuit number.( Eg "DBU1 – CB 23")

Wiring to be completed at AS3000 with a certificate of Electrical Safety for any works provided.

**Ventilation:**

No heating or cooling requirements – Air flow only.

Air Conditioning review and report on venting arrangements and airflow changes. Proposed to have design 6 air changes an hour with 5 l/s per sq m floor area to comply with AS/NZS 1668.

Air Supply fans supply/install. Two air supply units located on ground floor (two units specified for redundancy). Operation to be installed to existing Building Management System ( BMS ) with push local and SMS alarm notifications.

One exhaust vent only (no fan) located at ceiling level at opposite site of room. Exhaust fan final venting via roof and shall be weatherproof (i.e. flashing sealing around supply and exhaust penetrations).

**Fire Systems:**

To be configured to suit occupancy and should be consistent with previous stages and also building purpose e.g. exit lights, fire extinguishers, smoke detectors, sprinklers as appropriate.

## Data/Alarms:

Ventilation Alarm to the ARPANSA BMS as detailed in "Ventilation" section.

Reliable Controls BMS to be expanded for a mobile modem and programmed for the ability to send push sms notifications.

## Floor Coverings:

Sealed and painted concrete floor finish. Colour - Grey. Make good to existing surfaces.

## Doors

One door to remain into plant room ramp. Functionality – small forklift and personnel access. Forklift details available upon request.

To be confirmed as compliant with Building Code. If non-compliant designer to provide economic solution.

## Building Code

Builders to comply with the Australian Building and Construction Commission as per work for Commonwealth entities (see <https://www.abcc.gov.au/building-code/funding-entities>).

## Construction Access:

- Rear Basement double secure door via plant room ramp to § 47E - [REDACTED].
- Ramp to be a common or shared space for staff and maintenance contractor's space
- Construction zone anticipated to be from the door from plant room ramp to § 47E - [REDACTED].
- Appropriate signage/barrier/temporary hording is anticipated in the § 47E - [REDACTED] to zone off the construction area for safety..
- Work to be completed in business hours. 0700 – 1700 Monday to Friday.
- Note Shutdown period of 22/12/2017 to 4/01/2017

## Health & Safety Considerations

As is typical for this age of building asbestos is present in some areas. The ARPANSA asbestos register is included for inspection.

Most electrical circuits are well labelled. However all electrical circuits should be tested to confirm source and state. Please note that ARPANSA require any ceiling grid should be inspected and tested to ensure during construction works that this does not become electrically energised/live.

Fire and smoke detector isolations, augmentations and re-commissioning is via written approval from ARPANSA Facility Manager. 5 days notice is requested for large non routine works.

## Security:

Refer Attachment D: Construction Access & Security – Yallambie.

## Records:

ARPANSA Records - Hard Copy Facility drawings are available for inspection and a copy can be provided electronically. However this is by person and by arrangement.

Service Provider Records:

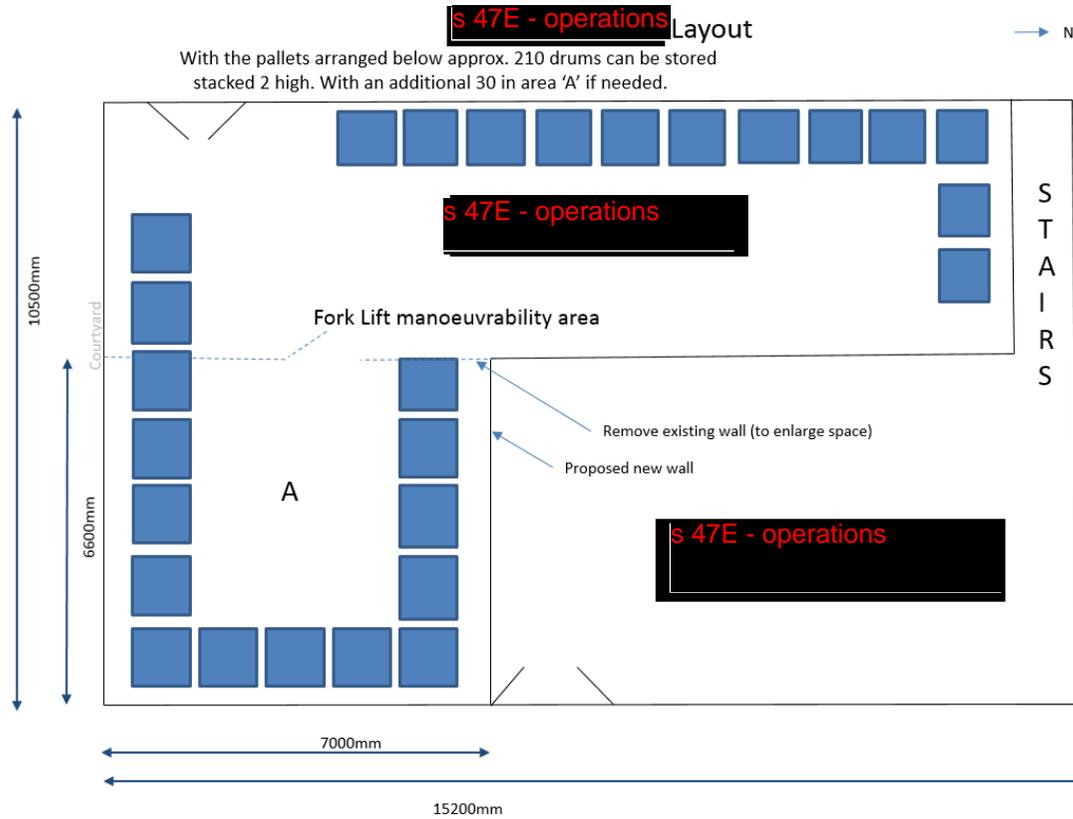
These remain the property of ARPANSA at all times (both .dwg and .pdf).

Electronic files in .dwg and .pdf file formats shall be provided to client ARPANSA at the following stages;

- (i) Tender/Quote
- (ii) Issued for Construction Stage, and
- (iii) As-Built Stage



### Attachment A – Proposed Area



RELEASED BY ARPANSA UNDER FOI

**Attachment B – General Area:**



RELEASED BY ARPANSA UNDER FOI

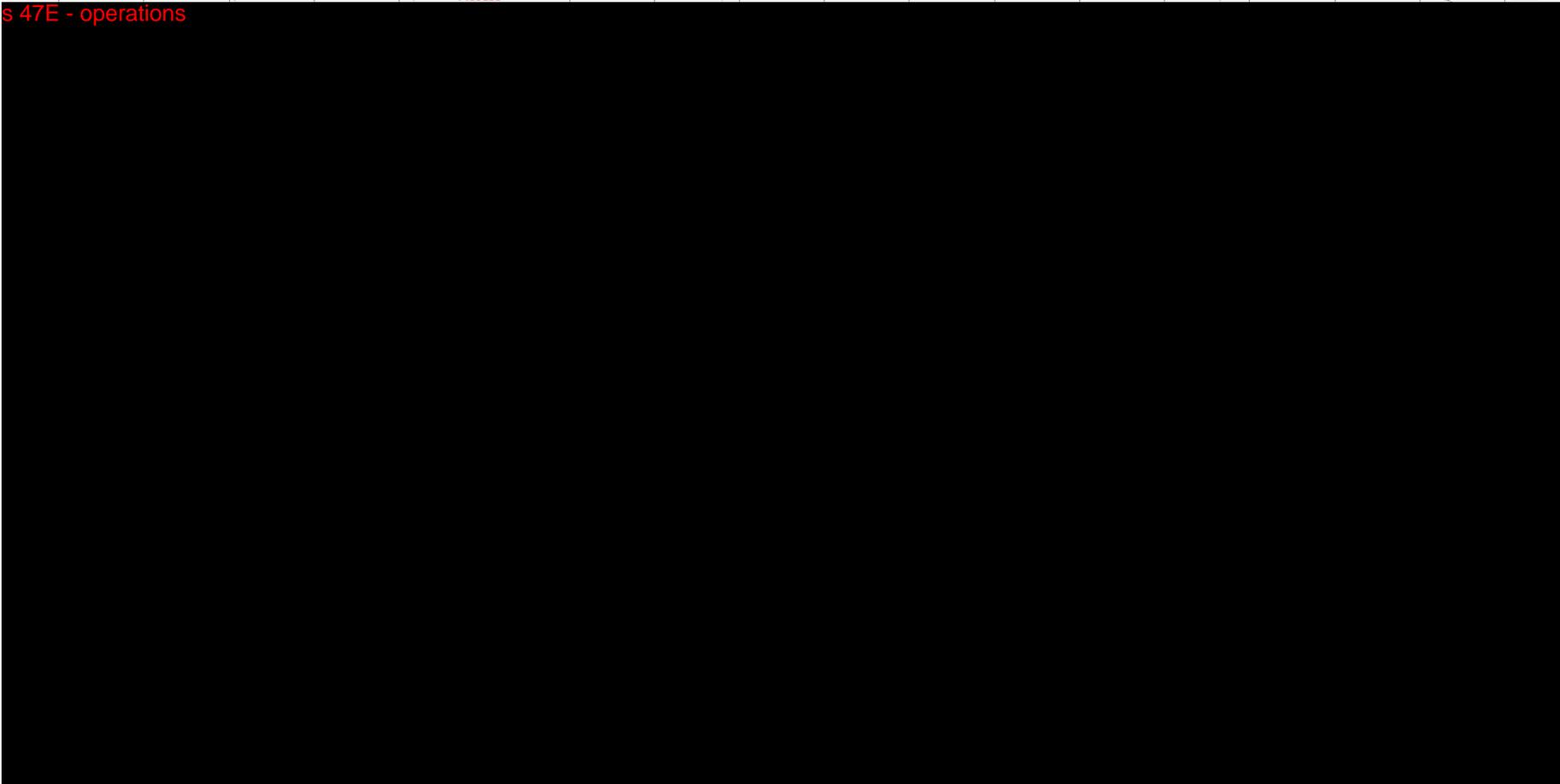
- 
- 8
  - 9
  - 1
  - 11
  - 12
  - 13
  - 14
  - 15
  - 16
  - 17
  - 18
  - 19
  - 20
  - 21
  - 22
  - 23
  - 24
  - 25

Access

34.0

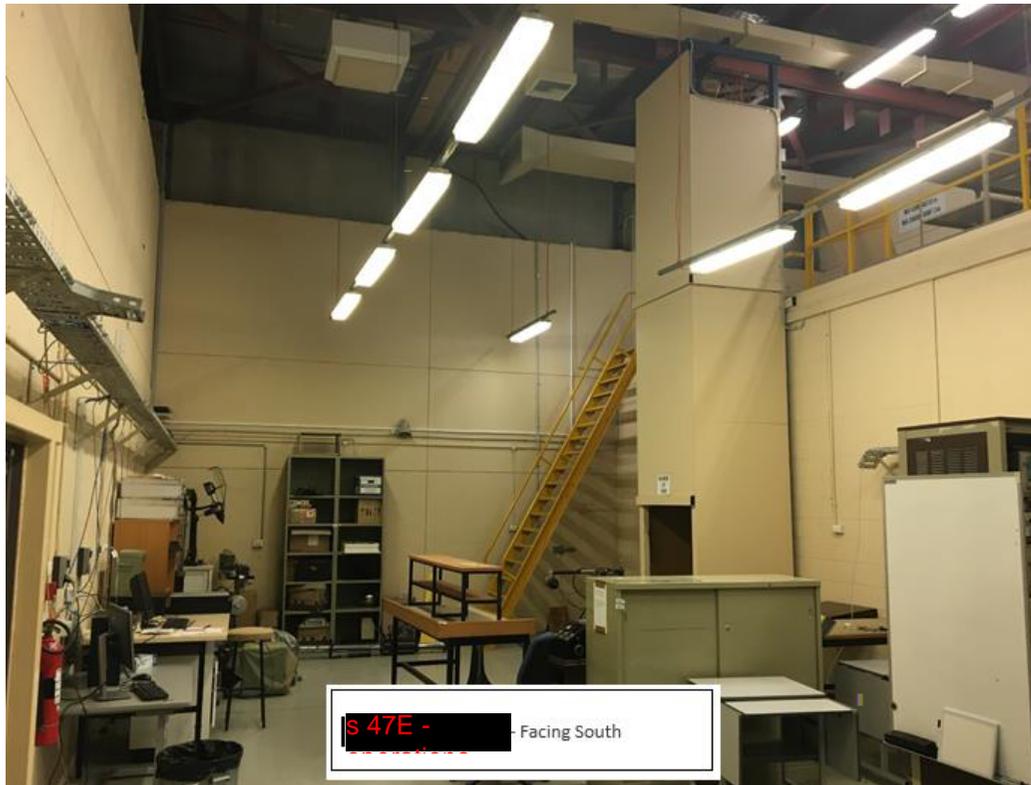
FO

s 47E - operations



*Attachment C – Photographs:*

RELEASED BY ARPANSA UNDER FOI

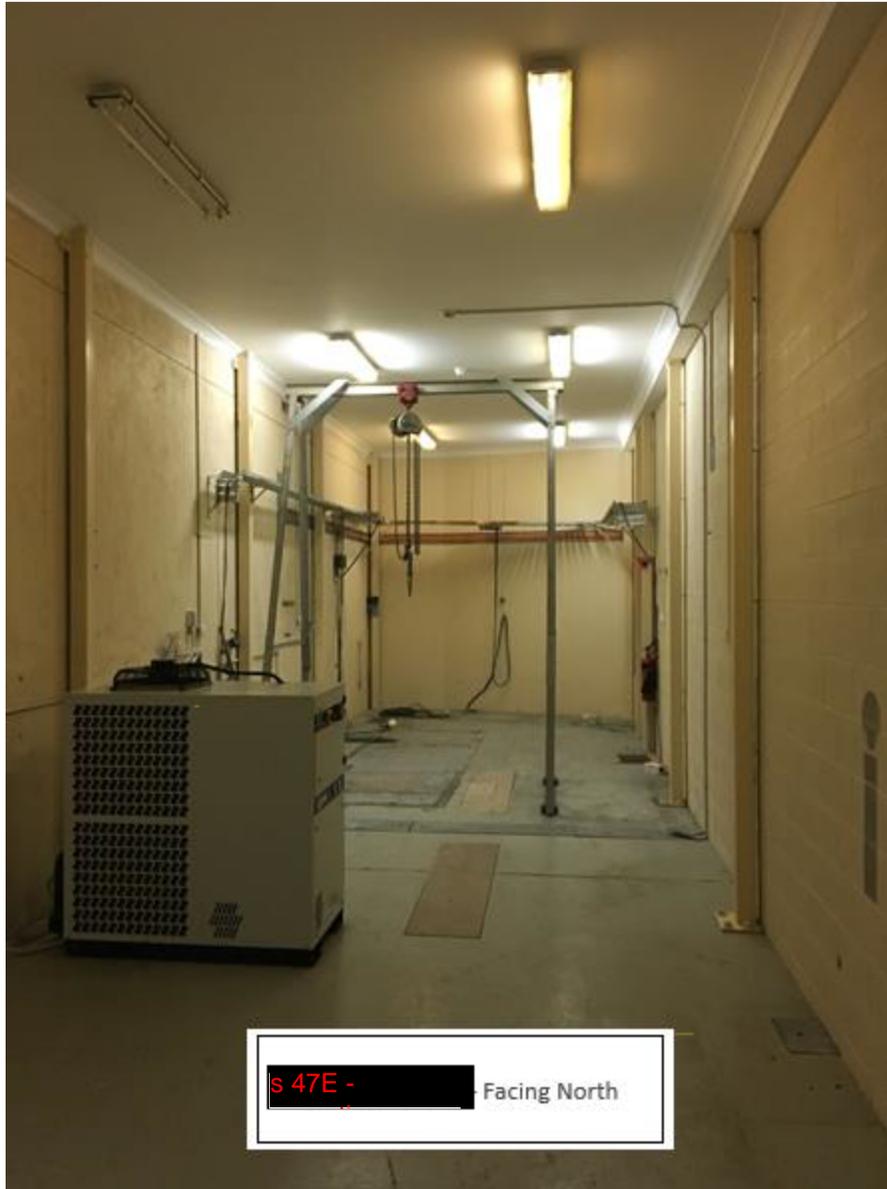


S 47E - [REDACTED] Facing South

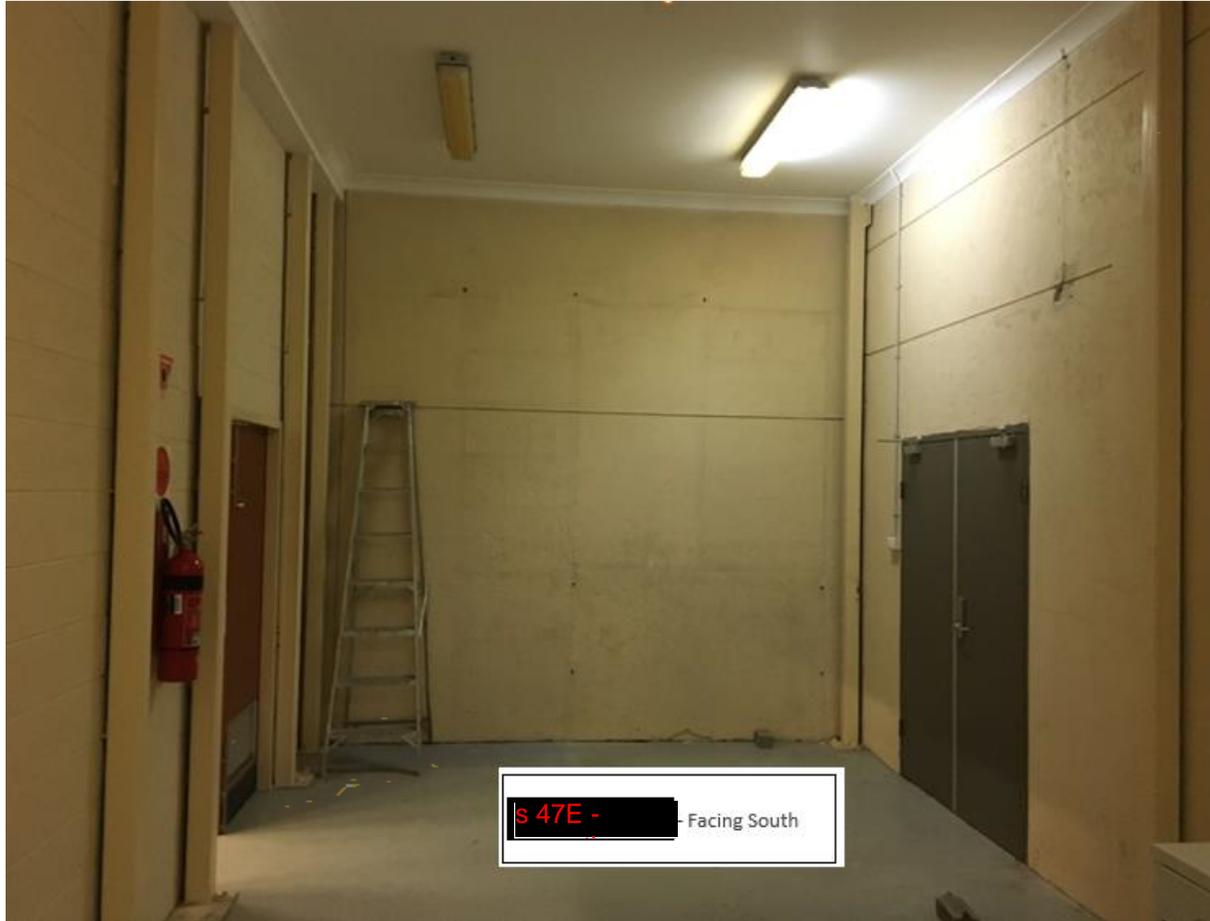




RELEASED BY ARPA/NSA UNDER FOI



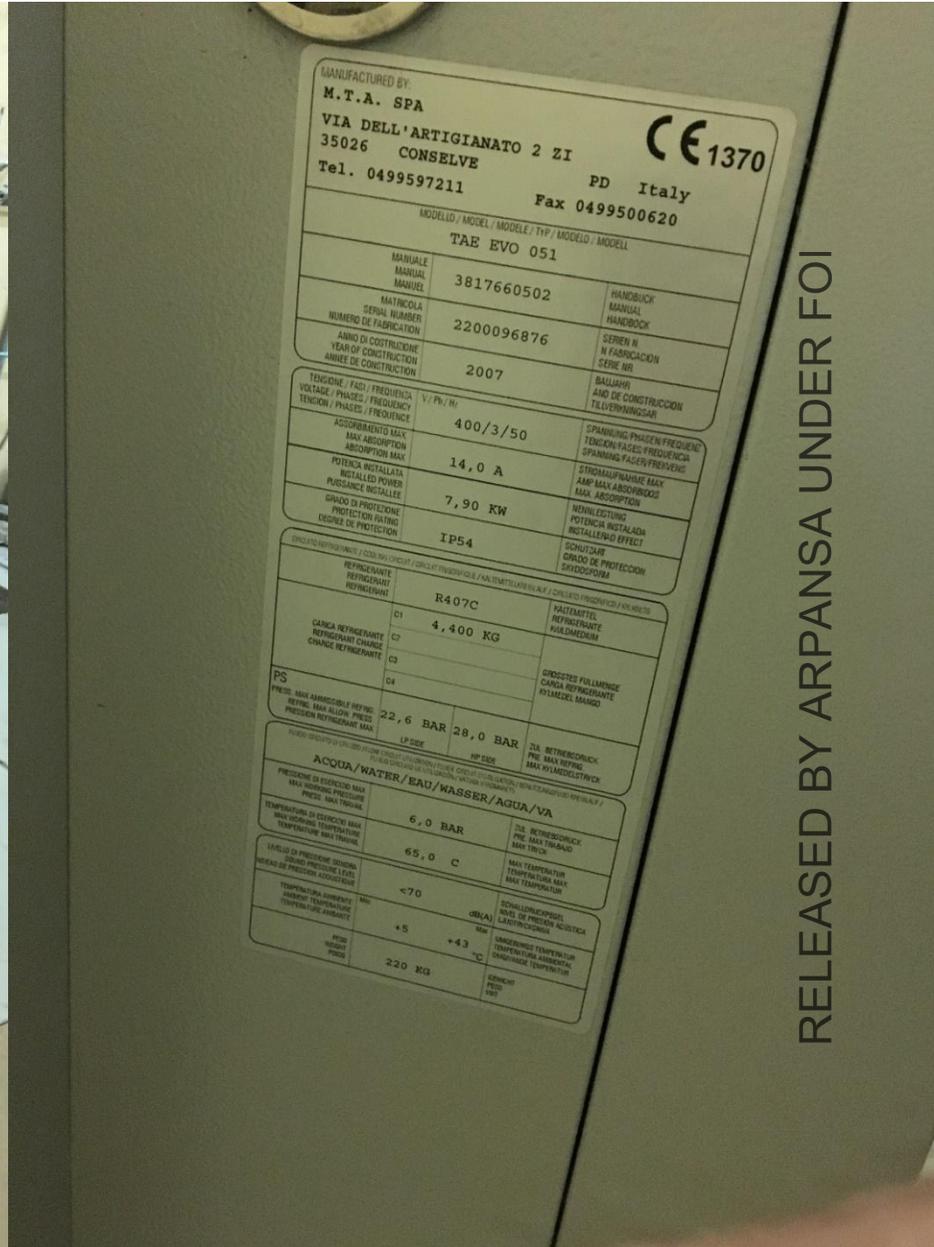
RELEASED BY ARPANSA UNDER FOI



RELEASED BY ARPANSA UNDER FOI



RELEASED BY ARPANSA UNDER FOI



RELEASED BY ARPANSA UNDER FOI

MANUFACTURED BY: <b>M.T.A. SPA</b>		<b>CE 1370</b>
VIA DELL'ARTIGIANATO 2 ZI 35026 CONSELVE		
Tel. 0499597211 PD Italy Fax 0499500620		
MODELLO / MODEL / MODELE / TYP / MODELO / MODELL <b>TAE EVO 051</b>		
MANUALE MANUAL MANUEL	3817660502	HANDBOOK MANUAL HANDBOOK
MATRICOLO SERIAL NUMBER NUMERO DE FABRICATION	2200096876	SERIE N N FABRICATION SERIE NR
ANNO DI COSTRUZIONE YEAR OF CONSTRUCTION ANNEE DE CONSTRUCTION	2007	BALAJHR AÑO DE CONSTRUCCION TÄLVERNINGSGÅR
TENSIONE / FASI / FREQUENZA VOLTAGE / PHASES / FREQUENCY TENSION / PHASES / FREQUENCY	400/3/50	SPANNING / PHASEN / FREQUENZ TENSION / PHASES / FREQUENCY SPANNING / FASES / FREQUENCY
ACCORRIMENTO MAX. MAX. ABSORPTION ABSORPTION MAX	14,0 A	STROMTAGUNG / PHASEN MAX AMP MAX / ABSORPTION MAX. ABSORPTION
POTENZA INSTALLATA INSTALLED POWER PUISSANCE INSTALLEE	7,90 KW	NEINLEISTUNG POTENCIA INSTALADA INSTALLATION EFFECT
GRADO DI PROTEZIONE PROTECTION RATING DEGREE OF PROTECTION	IP54	SCHUTZGRAD GRADO DE PROTECCION SÄNDERSFORM
REFRIGERANTE REFRIGERANT REFRIGERANT	R407C	KÄLTEMITTEL REFRIGERANTE KÜHLMEDIUM
CARGA REFRIGERANTE REFRIGERANT CHARGE CHARGE REFRIGERANTE	4,400 KG	GEWICHTS FÜLLMENGE CARGA REFRIGERANTE FÜLLMASEL MANGO
PS PRES. MAX. AMMISSIBILE REFRIG. REFRIG. MAX. ALLOW. PRESS. PRESION REFRIGERANTE MAX.	22,6 BAR	HP SIDE MAX. REFRIGERANT MAX. REFRIG. MAX. W/ MODELTRUCK
ACQUA/WATER/EAU/WASSER/AGUA/VA	6,0 BAR	HP SIDE MAX. REFRIGERANT MAX. REFRIG. MAX. W/ MODELTRUCK
PRESIONE DI ESERCIZIO MAX. MAX WORKING PRESSURE PRES. MAX. TRAVAIL	65,0 C	MAX. REFRIGERANT MAX. TRUCK
TEMPERATURA DI ESERCIZIO MAX. MAX WORKING TEMPERATURE TEMPERATURE MAX. TRAVAIL	<70	MAX. TEMPERATURE TEMPERATURA MAX. MAX. TEMPERATURE
LEVELLO DI PROTEZIONE SONORA SOUND PROTECTION LEVEL NIVEAU DE PROTECTION ACOUSTIQUE	+5	SONNENLÄRSTUFE NIV. DE PROTECTION ACOUSTIQUE LÄRSTUFCORONA
TEMPERATURA AMBIENTE AMBIENT TEMPERATURE TEMPERATURE AMBIENT	+43	UMGEBUNGSTEMPERATUR TEMPERATURA AMBIENT OMGIVNINGSTEMPERATUR
PIÙ HEAVY PIÙS	220 KG	GEWICHT PIÙS PIÙS



RELEASED BY ARPANSA UNDER FOI



**Attachment D**

**Construction Access & Security - Yallambie**

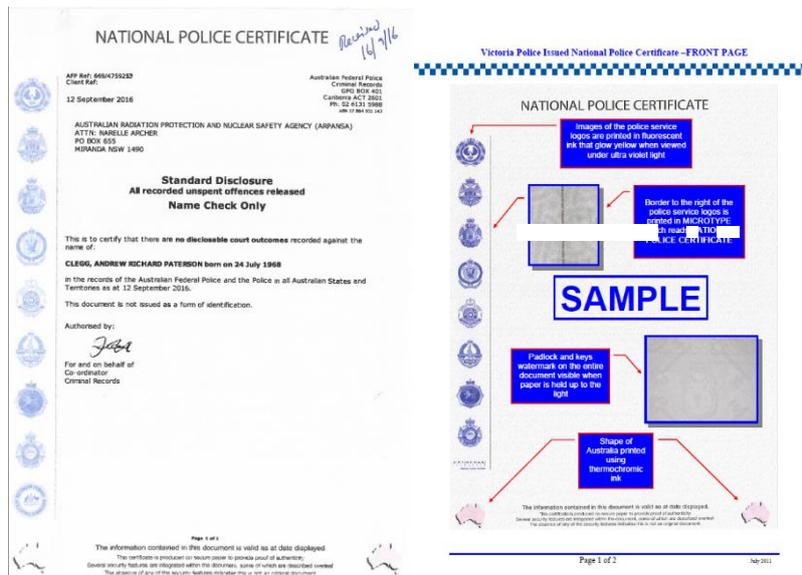
- Construction site to be labelled and have a clear demarcation zone starting from Level 1 adjacent to stairs.
- Demarcation zone between construction zone and office space.
- Basement area and lift space will be a shared space with construction staff and office staff
- Lift to have proactive protection lining and L 1 door frames installed to ensure no damage occurs.
- Contractors to have their nominated Site Manager on site at all time. (Or appointed delegate).

**Site Manager and all other Construction personnel:**

Includes main contractor staff and subcontractors.

- All to be nominated including subcontractors.
- Photo ID required to be presented prior to project start and sighted on attendance.
- Required to have a current **“Victoria Police Issued National Police Certificate”** (refer attachment A below).
- An alternative online Police History Check is acceptable (NCC/CV Check/Fit for Work) – however care needs to be exercised as these can expire.
  - (If the main contractor’s nominated subcontractor is substituted. ARPANSA is to be notified. In this case access for this person will be via an escort at all times by an employee of the same company).

Attachment A - **“Victoria Police Issued National Police Certificate”**.



RELEASED BY ARPANSA UNDER FOI



## Executive Group

### Paper

**Title:** ARPANSA Waste Store Design Quotation and next steps.  
**Date:** 9 March 2018  
**Item no:** 2.7

#### Purpose:

For approval.

#### Issue

Approximately 210 drums of legacy low-level radioactive waste are to be transferred to the Yallambie site from Melbourne University (see *EG paper 2.5, 18 Jan 2018*). Approval is required to move forward with monetary spend for commissioning a designer at \$24,140+GST.

#### Background

Details on the project background and options considered were provided in *EG paper 2.5, 18 Jan 2018*.

#### Update

s 22 - Irrelevant

- A quotation from A.S. Building consultants to undertake work on design has been received (see Attachment 3).

s 22 - Irrelevant

## Request for Approval

We request that the EG approves the proposed direction of the project and agrees to the spending of \$24140.00+GST on the design for the waste store.

### *Sensitivity:*

Sensitivities that have been identified include media, the public (immediate neighbours) and staff.

### *Legislation*

No legislative amendments are required.

### *Financial Implications*

There will be several costs during this project. All costs estimated below are subject to change.

- Design –approximately \$27K
- Relocation of Linac Chiller – at least \$30K
- Building works – approx. \$200 – 250K (tbc)
- Transportation (each shipment) – approx. \$5K

The complete relocation of the Linac control room is of the order of \$50K (to be confirmed)

s 22 - Irrelevant

### *Timing/Handling:*

Transport of initial tranche of drums will be confirmed after initial meeting. It is expected that this will happen near Easter (1<sup>st</sup> April), or soon after (week of 15<sup>th</sup> April).

If proceeding with the design is confirmed (as requested above), it may be possible to go out to tender soon after Easter with the aim to engage a builder by mid-May.

## Communication

### *Consultation*

Consultations have been held with the Staff Consultative Forum (SCF), OCEO (on Communications), groups impacted by Linac downtime, Agency Security and ARPANSA WHS. A lengthy discussion was held at the SMC on Communication externally (see next paragraph).

These consultations are ongoing.

### *Communication activities*

There are no community awareness opportunities relating to this item.

Consultation with the OCEO Communications team and the SMC have determined that this activity can be considered to be 'business as usual'. As such, external communications are not recommended.

Communications with Staff have been held via ISAAC, with several staff taking the opportunity to discuss the project one-to-one. No staff have expressed discomfort with the proposal at this stage.

Staff communication is ongoing.

## Recommendations

That the EG **APPROVE**:

Recommendation No.	Recommendation	Chair comments
R1:	the spending <span style="background-color: black; color: red;">b.47G - business</span> +GST on the design for the waste store	

## Contact

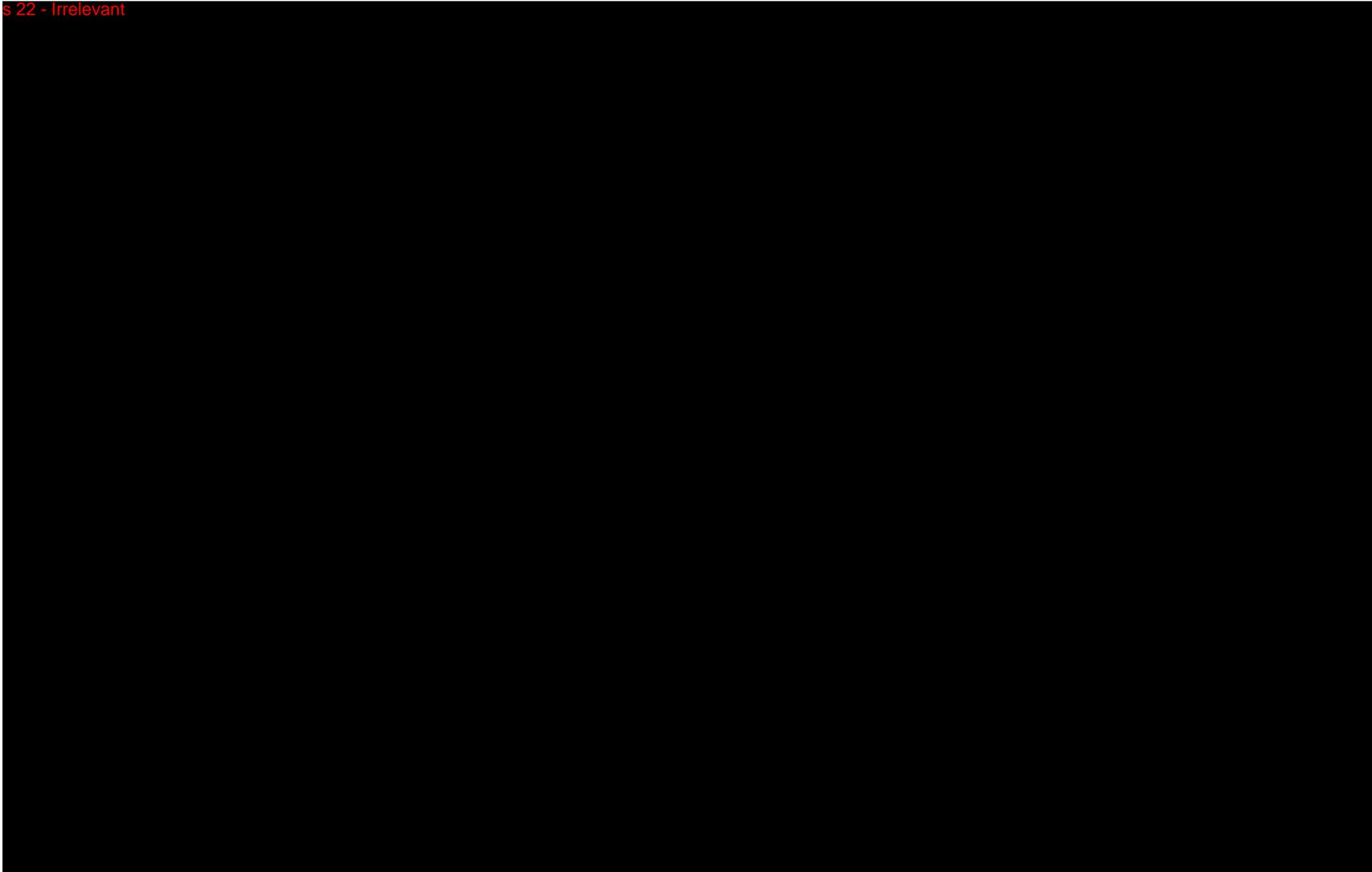
Author details		Clearance Branch or Office Head details:	
Name:	Marcus Grzechnik	Name:	Gillian Hirth
Position:	Director MERS	Position:	Chief Radiation Health Scientist
Branch/Office	RHS	Branch/Office:	RHS

Option	Strengths	Weaknesses	Opportunities	Threats	Assessment
s 22 - Irrelevant					

s 47E - operations	<p>Consolidation of most of ARPANSA waste to one area within building footprint.</p> <p>ARPANSA controls &amp; manages waste in accordance with IBP</p> <p>Already a security controlled area (will be upgraded appropriately)</p> <p>Good ramp and height access for forklifts</p> <p>Ventilation can be managed</p>	<p>Some verification of area of existing building and further building (walls) required</p> <p>Facility works to meet WHS and Security standards required one off cost)</p> <p>Relocation of chiller required (but was required anyway)</p>	<p>Opportunity to reclaim unused space within the building footprint</p> <p>Large enough for some expansion and stacking of drums</p> <p>Potential to be a best practice storage facility</p> <p>Opportunity to re-packing and reduce volume of waste</p>	<p>Use s 47E - not deemed appropriate by operators/staff</p> <p>Floor or walls not strong enough to accommodate racks and waste</p> <p>Possible unreasonable costs</p> <p>Tight timescale means that design, quote and building may not be completed when ARPANSA takes control of waste</p> <p>Reputational risk with ARPANSA neighbours</p>	<p>Reputationally sound option that re-claims building footprint</p> <p><b>Quotes to be sought,</b> however the risk of time slippage is very real</p> <p><b>One of two preferred options</b></p>
--------------------	---	---	---	---	---

s 22 - Irrelevant

s 22 - Irrelevant



s 22 - Irrelevant

RELEASED BY ARPANS

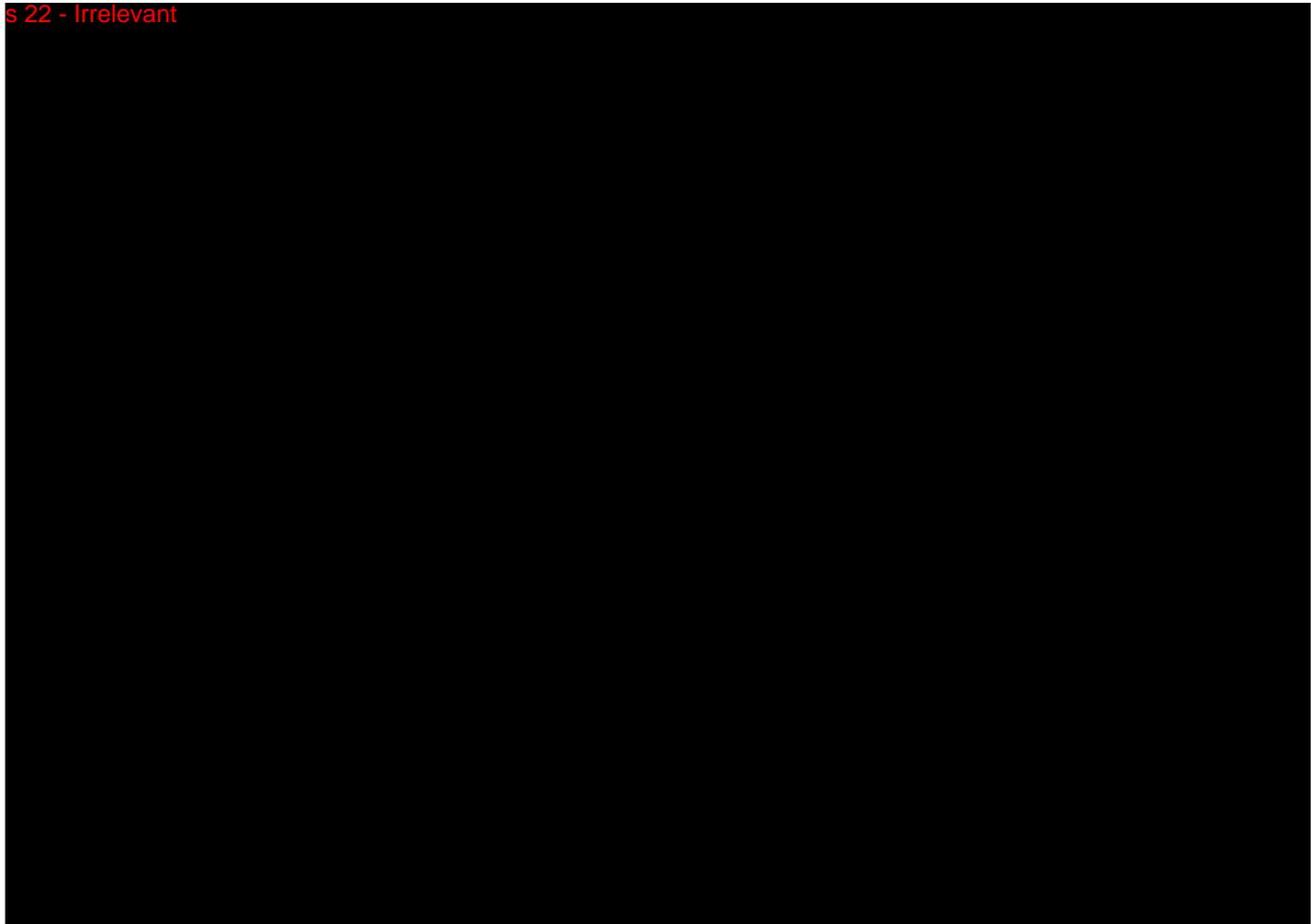


Australian Government  
Australian Radiation Protection  
and Nuclear Safety Agency



Ref No: D185599

s 22 - Irrelevant

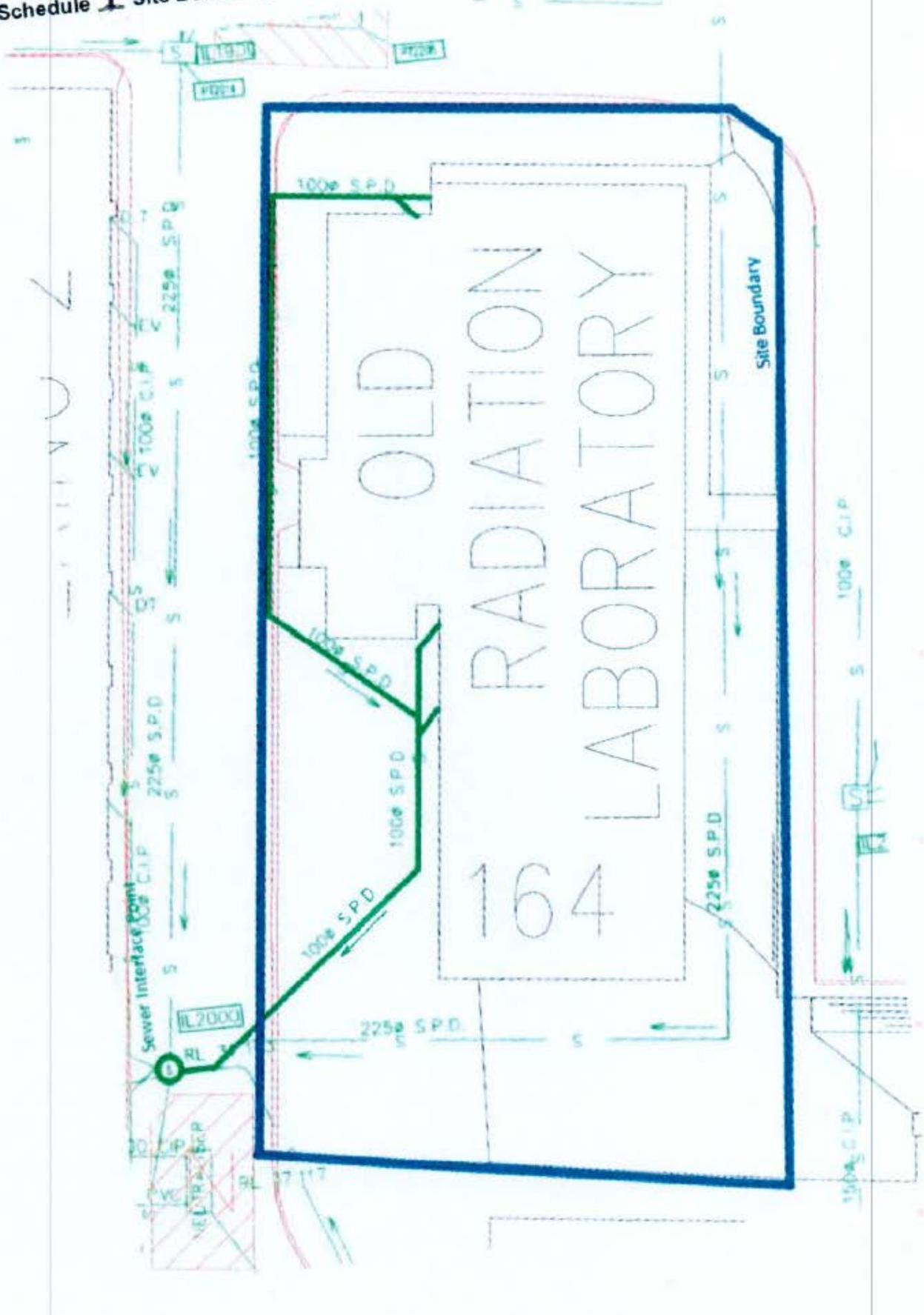


RELEASED BY ARPANSA UNDER FOI

Yours sincerely,

Dr Gillian Hirth  
Chief Radiation Health Scientist

Schedule 1 Site Boundary and Interface Points



RELEASED BY ARPANSA UNDER FOI



Australian Institute of Building Surveyors



REGISTERED Building Practitioner



building consultants

7 February 2018

Andrew Clegg  
Facilities Manager  
ARPANSA  
C/o 619 Lower Plenty Road  
VIEWBANK VICTORIA 3084

Dear Andrew

**Re: Alterations & additions to an existing waste storage area**  
**At: No. 619 Lower Plenty Road VIEWBANK/YALLAMBIE**

Thank you for the invitation to provide the fee proposal for our professional building surveying, building design, engineering and consultancy services.

I advise that our proposal is as follows:

1. **The service offered:**

- Consultation;
- Liaise and consulted with client, Draftsperson, engineers and Local Authority (Banyule Council);
- Obtain the property information from Council;
- Arrange to engage a draftsperson to prepare the working drawings;
- Arrange to engage the necessary engineering plans together with Certificate of Compliance-Design
- Arrange to engage a suitable qualified Energy Rater, if required;
- Arrange to engage a geotechnical Engineer for a soil report, if required;
- Carrying out site inspections and attend to site meeting, if required;
- Checking of application for compliance with the Building Act 1993 and Building Regulations 2006, Building Code of Australia 2016 and the relevant Australian Standards;;
- Issuing a building permit for the proposed building works;
- Carry out the mandatory Inspections;
- Issuing of an Occupancy Permit and/or the Certificate of Final Inspection upon completion;
- Provide copies of all relevant permit documents to applicant and the Council;
- General administrations, photocopying, postage/miscellaneous;

2. **Fees:**

3. **Disbursements/Exclusions:**

s 47G - business

**IMPORTANT:** PLEASE READ NOTES BELOW WHICH FORMS PART OF OUR PROFESSIONAL BUILDING CONSULTANTANCY SERVICES ENGAGEMENT.

RELEASED BY ARPANSA UNDER FOI

**NOTES:**

- This quotation remains valid for a period of 30 days from the date of this letter.
- Fees exclude authority fees and charges that may arise due to liaison and obtaining reports/consents from such authorities.

s 47G - business

- No allowance has been made for attending to the Building Appeal Board, V.C.A.T., and Court.

s 47G - business

- **Please be advised that our building consultancy services will be commenced once this office receives an email and/or appointment letter with a full payment.**
- Staging of building work and variations to documentation during the course of or subsequent to Building Planning Permit issue which result in the need for re-checking and/or new Permits will be subject to an additional fee.

s 47G - business

We wish to assure you that we will make every endeavour to assist you with your obligations under the Building Act in a prompt, professional and efficient manner.

Thank you for your enquiry and I trust this estimate is satisfactory and I look forward to working with you on this and future projects. Should you wish to discuss this proposal further, please do not hesitate in contacting the undersigned.

Yours sincerely

s 47F - privacy

**Manager – A.S. Building Consultants**



# Project Proposal

## ARPANSA-PM-TMP-001

### General details

General	
Project number (if known):	PRO-0025
Idea/Project name:	Waste Storage Area – Yallambie
Proposer/Project Manager:	Andrew Clegg
Project Owner:	Gillian Hirth
Section:	Radiation Protection Services
Start date:	18 September 2017
End date:	31 December 2018
Duration:	3 months

### Description of the idea

ARPANSA is cooperating with the University of Melbourne to remediate low-level radioactive contamination at one of its former premises – the Commonwealth Radium Laboratory. ARPANSA has the requirement to store at least 200 drums of low level radioactive waste that has been created as part of the legacy site remediation activity at the University of Melbourne.

### Other options considered – what is the perfect solution? what is the next best option? what would happen if we did nothing?

The perfect solution: We establish a new waste storage area within the Yallambie building footprint

s 22 - Irrelevant

Do nothing: Not an option

### Objectives – something towards which work is to be directed, a strategic position to be attained, a purpose to be achieved, a result to be obtained, a project to be produced, or a service to be performed

To have all of ARPANSA low-level radioactive waste stored in facilities that meet International Best Practice.

RELEASED BY ARPANSA UNDER FOI

**Deliverables – a product, result or capability to perform a service that must proceed in order to complete a project**

s 22 - Irrelevant

- If Plan B, storage area is developed and area upgraded to accept waste (cost associated).
- Regulatory approvals for waste transfer are given
- Waste is transferred from Melbourne University to ARPANSA

Note – Price estimates are based on an initial design fee of s 47G - business to A.S. Building Consultants being a s 47G - business. Upon the project milestone of design completion an order of costs will be provided to ARPANSA via the building surveyor. This will provide a more accurate cost forecast prior to ARPANSA going to the market for pricing.

**Estimated Financials – Project costing tool can be used at this point to assist with estimate**

Revenue	\$ 0
less	\$
Labour	\$25,884
Suppliers	\$250,000 + GST Estimated
Surplus/(deficit)	\$224,116

**Capital** \$250,000 Estimated

**External funding opportunities – is there a market for this product or service, is there an opportunity to submit a new policy proposal (NPP), would any other organisations be interested in collaborating with us?**

No

**Strategic alignment**

**Outcome**

1. Protect the public, workers and the environment from the harmful effects of radiation

RELEASED BY ARPANSA UNDER FOI

**How would this project deliver on the outcome selected? What are the benefits?**

Under strategy 1.3 Mitigate the health and environmental risks to public, workers and the environment of the RHS Branch Plan for 2017-18 the following activity  
'Melbourne University legacy site remediated and waste managed appropriately' is listed as a KRA.

**How would you measure progress against this outcome?**

Completion of the remediation activity and waste stored in a licensed storage facility that meets international best practice.

**From:** Andrew Clegg  
**To:** [Marcus Grzechnik](#)  
**Subject:** RE: Design PO for ARPANSA Waste Store [SEC=UNCLASSIFIED]  
**Date:** Friday, 23 March 2018 11:04:00 AM

---

Hi Marcus,

s 47F will be coming back re timing to me Monday. Just as a FYI.

AC

---

**From:** Andrew Clegg  
**Sent:** Monday, 19 March 2018 12:01 PM  
**To:** s 47F - privacy  
**Cc:** Marcus Grzechnik <x@xx>  
**Subject:** Design PO for ARPANSA Waste Store [SEC=UNCLASSIFIED]

Hi s 47F

As discussed, please find the ARPANSA PO for the design documentation and drawings to enable ARPANSA to go to tender for the building/construction stage.

I will ring you later today to discuss timing for the final construction design drawings that works with your program. Ideally I would like to see them completed to the time frame below. Please review and lets chat.

Monday 19/03/2018	Design Start Date ( 1 mobilise + 3 week design window)
Friday 13/04/2018	Design Milestone 1 – Drawings/Documentation for Tender + the construction “Order of Costs” issued by Adam Soreli to ARPANSA
Monday 16/04/2018	Design to continuing with refinements for Construction Issue Drawings – by Adam Soreli ( 3 week window)
Monday 16/04/2018	ARPANSA issue for Tender (3 wks AusTender)
Monday 7/05/2018	ARPANSA Tender Close
Monday 7/05/2018	Design Milestone 2 – Submission of Drawings/Documentation for Construction
Monday 21/05/2018	ARPANSA Tender Recommendation and Letter of Intent to Builder to initiate works

Regards

**Andrew Clegg**

**Facilities Manager**

**Australian Radiation Protection and Nuclear Safety Agency**

619 Lower Plenty Road, Yallambie, VIC 3085, AUSTRALIA

**Mobile** 04 1864 5596

RELEASED BY ARPANSA UNDER FOI

email [x@xx](#)

<http://www.arpansa.gov.au>

## Update on the waste storage project

5 April - *Gillian Hirth*

Late last year, it was announced to all staff that ARPANSA would take ownership of approximately 210 drums of low-level radioactive waste. At this time, it was expected that the initial delivery of 72 drums would be completed by March 2018, however less urgency in the timing of the project has meant that this is now expected in late April at the earliest.

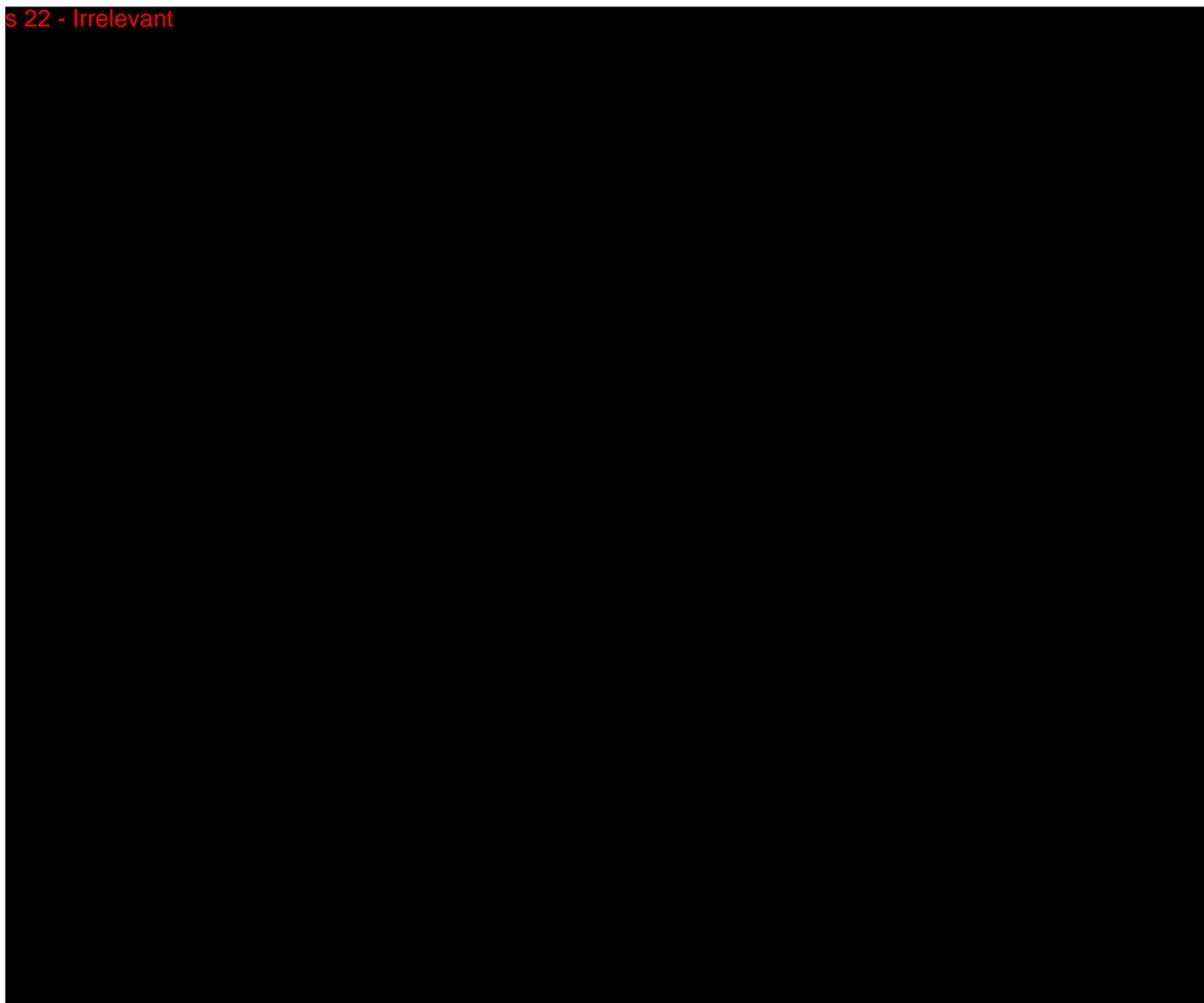
To date, there have been a variety of communication pieces with staff, including an update on ISAAC and at the Staff Consultative Forum (SCF), consultations with the Office of the CEO, People and Culture, Agency Security and ARPANSA Work Health and Safety.

We are now at a stage where the Executive Group (EG) has approved our proposed direction, including location of a new waste store area within the Yallambie site to store the waste pending permanent disposal and to accept the initial delivery of 72 drums.

We will be holding a talkshop on 19th April to provide you with further information on the project. In the meantime, we have put together a set of frequently asked questions below for your information. We will continue to provide you with regular updates as the project progresses.

### Frequently Asked Questions

s 22 - Irrelevant



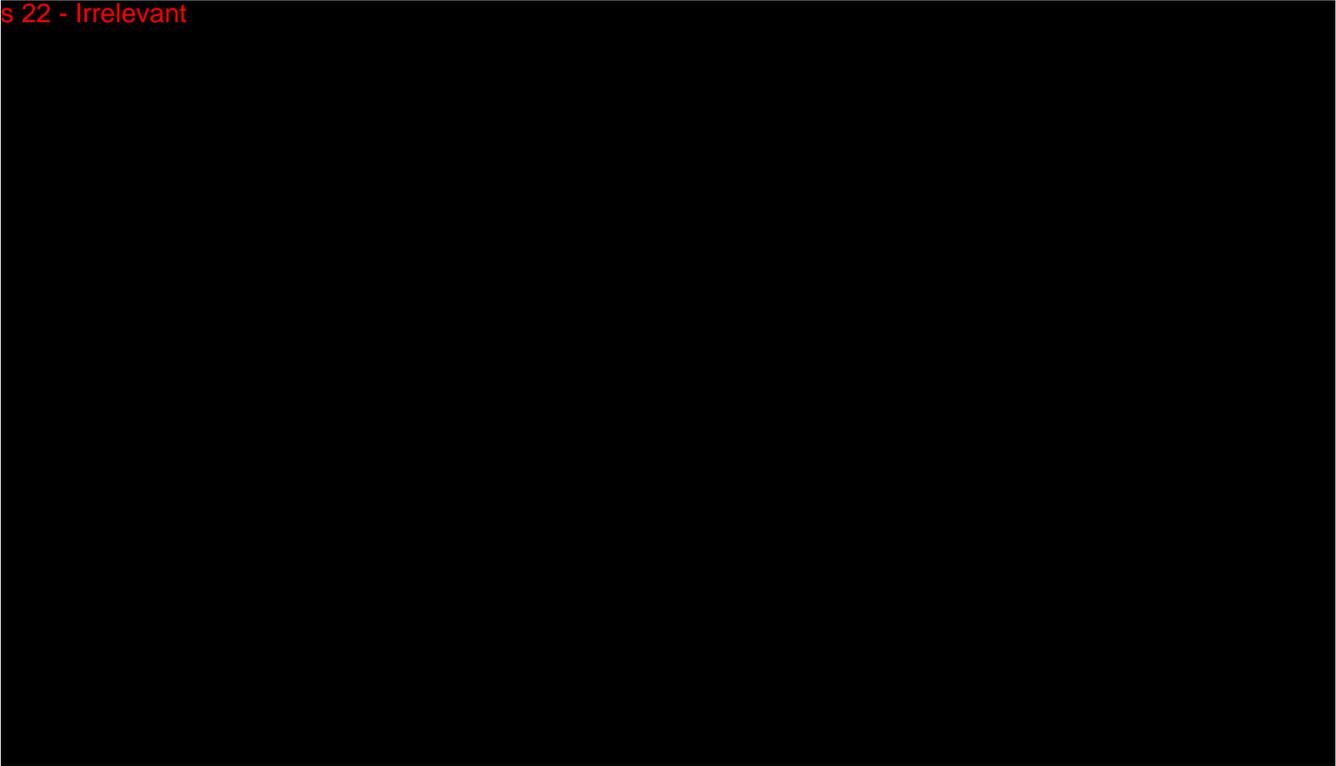
### What stage is the project currently at?

To date the EG has approved the:

- Proposed approach to waste management, including location of the new waste storage area.
- Transportation costs for initial tranche of 72 drums.
- Commissioning of the design of the new waste storage area.

Once the design is completed and tender bids are received and reviewed the EG will be asked to approve commencement of work on construction associated with the new waste storage area.

s 22 - Irrelevant



### What is next in the project?

A talkshop is planned for April 19th to update staff on the current status and allow the opportunity to ask questions before the first tranche of drums is delivered. Invitations will be issued shortly following the posting of this article.

A building designer has

been engaged and the design is to be completed by the end of April. The tender process is expected to be completed by end of May.

Further updates will be provided to staff as we progress through the process.

If you would like any further information or have any concerns, please attend the talkshop – there will be plenty of time for questions and comments. Feel free to come and have a chat with [Marcus Grzechnik](#) x2292.



# Business Case

## ARPANSA-PM-TMP-002

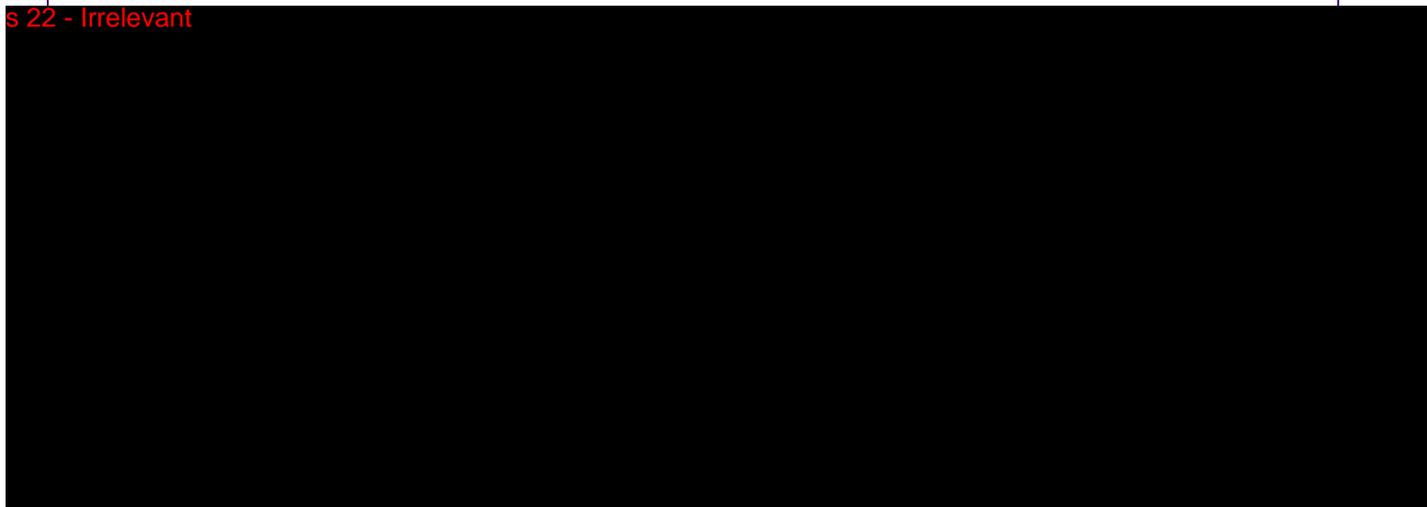
### General details

General	
Project number (if known):	PRO-0025
Idea/Project name:	Waste Storage Area
Proposer/Project Manager:	Marcus Grzechnik
Project Owner:	Gillian Hirth
Section:	MERS/RHS
Start date:	Already initiated
End date:	December 2018
Duration:	

### Executive summary

#### Summary of business case

s 22 - Irrelevant



#### Recommendations – what would you like the EG to approve?

The EG previously approved;

- The proposed direction, including where the legacy waste should be located (within ARPANSA’s facility)
- The transportation costs for the initial tranche of 72 drums (approximately \$5K)
- Commissioning of the design for the proposed storage area

s 47G - business

The EG will be asked to approve the budget for the building cost following design completion and receipt of the tender bids. Based on the design, we expect the costs to be circa \$250K.

## Background

Why are we doing this project? What problem are we trying to solve? What is the current state? Try to summarise in five dot points.

s 22 - Irrelevant

## Scope

The work that needs to be accomplished to deliver a product, service or result with the specified features and functions.

Work to deliver a safe and secure area for appropriate storage of the legacy radioactive waste includes:

- Design of storage area
- Tender process
- Building works
- Regulatory approvals

Transportation and storage of drums

## Timing

How long will each stage of the project take to complete?

Planning:	Complete
Execution:	The first tranche of 72 drums will arrive at Yallambie during April 2018. The Designer was engaged late-March. Design completion by mid-May. Tender process will mean a builder is engaged in June.
Closure:	It is expected that the project will be closed by end of 2018 at the latest.

## Funding

How much will the project cost – from costing tool, updated from project proposal phase if any new information is known

Design - s 47C - business

Relocation of Linac Chiller - \$30K (aligns with Linac project)

Building - \$250K

Transportation – 2 shipments @ \$5K each.

**How will these costs be funded – does this project require additional funding from what has been approved in branch budgets?**

Funding for capital will come from RHS 2017/18 budget (up to \$250K).

Smaller costs, such as drums, transport and design, have not been budgeted for in 2017/18 (spent under RSO cost centre).

## Work health & safety

**Are there WHS implications for our people of either doing or not doing this project? Discuss with WHS advisor.**

WH&S adviser has been consulted during this project.

There are no radiological dose implications from the drums (zero dose rate), and radon will be managed in accordance with best-practice.

Transportation will be undertaken with a registered and experienced transport company.

## Security

**Are there any security implications with this project? Discuss with Agency Security Adviser**

Security implications have been discussed and advice incorporated into design of the storage area.

## Risk

**What are the risks of doing or not doing the project?**

s 22 - Irrelevant

## Legislation

**Are there any legislative requirements to consider? If yes, please describe.**

The ARPANSA Act and Regulations must be met as regulatory requirements will need to be satisfied.

## People

### What is the change (define the difference between current and future state)?

The additional radioactive waste will initially be managed as a part of the Yallambie source licence (S0002). The newly constructed storage area will undergo appropriate regulatory scrutiny.

### What is the Change Impact (define the impact the change will have, noting there may be multiple impacts for each change)?

The radioactive waste will need to be managed while in storage at the Yallambie facility in accordance with regulatory requirements.

Communications have been coordinated in liaison with P&C (see below).

### Capability – do we have the capability required to deliver on this project? If not, what is the plan for obtaining it?

Yes

### Capacity – do we have the available capacity to deliver on this project? If not, what is the plan for obtaining it

Yes

## Engagement

### Communications plan

#### Consultation

Consultations have been held with the Staff Consultative Forum (SCF), OCEO (on Communications), groups impacted by Linac downtime, Agency Security and ARPANSA WHS. A lengthy discussion was held at the SMC on communication externally (see next paragraph). These consultations are ongoing.

#### Communication activities

There are no community awareness opportunities relating to this item.

Consultation with the OCEO Communications team and the SMC have determined that this activity can be considered to be 'business as usual'. As such, external communications are not recommended.

Communications with staff have been held via ISAAC, with several staff taking the opportunity to discuss the project one-to-one. No staff have expressed discomfort with the proposal at this stage.

Staff communication is ongoing, and has been coordinated in liaison with P&C.

A Talkshop will be given to update staff on the current status before the first tranche of drums is delivered.

### Behavioural change management plan

The storage area will be safe and secure and appropriately labelled for staff. No behavioural change will be required.

Management of the waste will be undertaken by the RSO consistent with current source licensing.

### Consultation/collaboration

**Have we consulted with all of the relevant people?**

See above (communication).

**Are there any opportunities to work with other parts of the agency?**

Collaboration has been undertaken with RHS (MERS & RPS) and the RSO.

### Interdependencies

**Pre-project completion interdependencies – are we waiting for another project to be completed before this project can begin?**

No.

Consideration needs to be given to the timing of the Linac project.

**Post-project completion interdependencies – does another project rely on the successful completion of this project?**

No.



# Expansion of ARPANSA's waste holdings – an update

Dr Marcus Grzechnik  
Dr Gillian Hirth

RELEASED BY ARPANSA UNDER FOI

# Lifelines



- EG/SMC & History – GH
- WH&S & RSO – PT
- Building – AC
- Regulatory – LC
- Radiation Management – SL (Maralinga)

# Outline



- History
- The Waste & Regulation
- Options Considered
- Current Status
- Timelines



# Q&A

# History

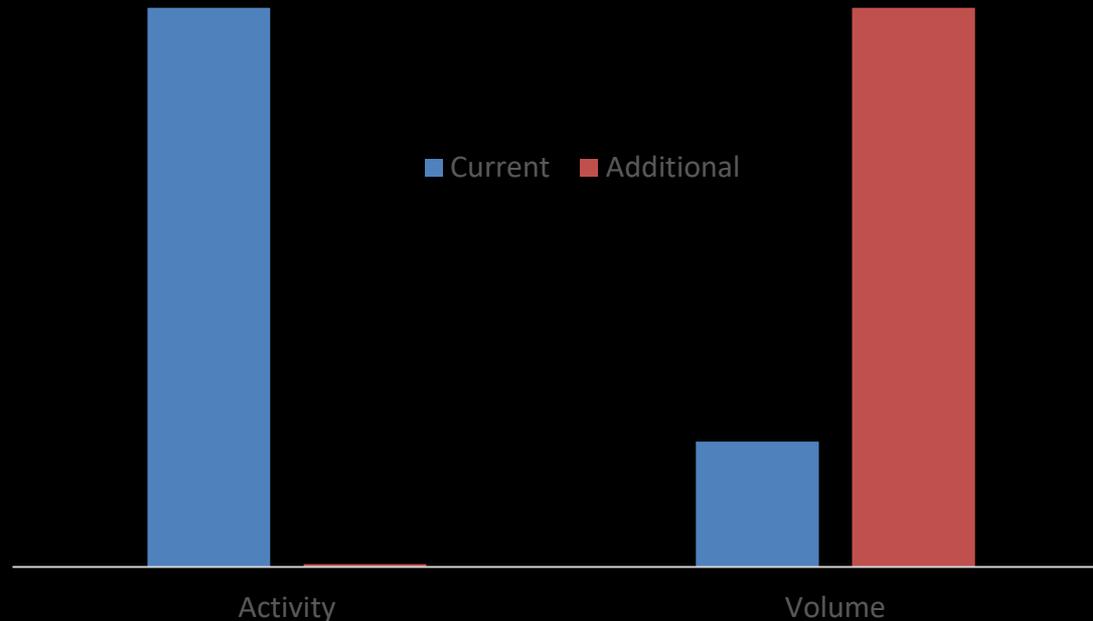
s 22 - Irrelevant





# How much & how dangerous?

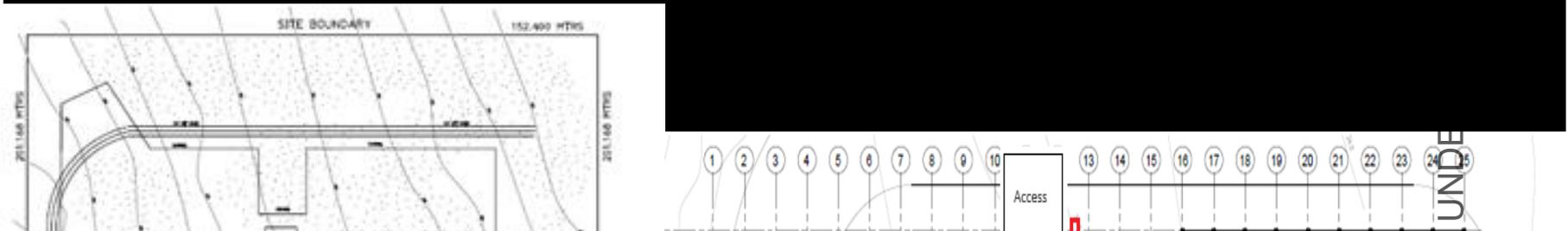
- Currently 160, projecting up to 210 drums
- Surface contaminated objects Ra-226
- Total activity <40MBq (Cat 4 source) – Low Level!



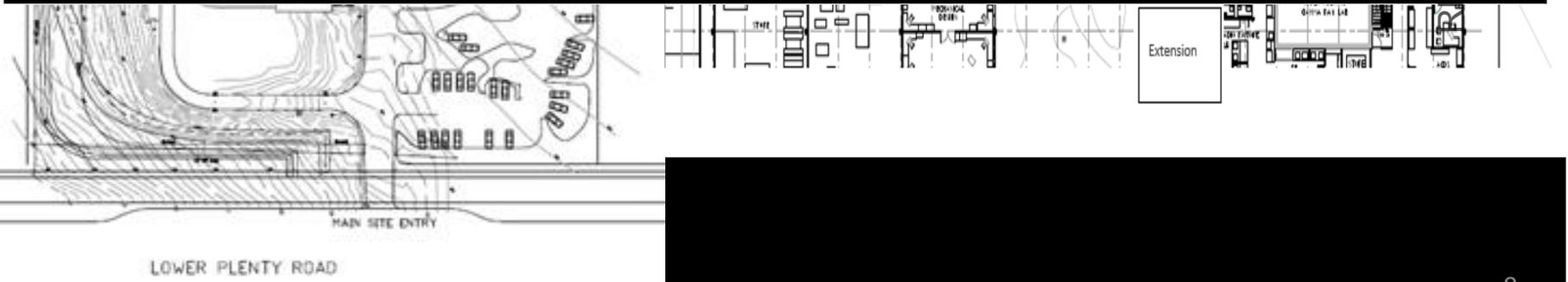
- Graded approach to regulation applied



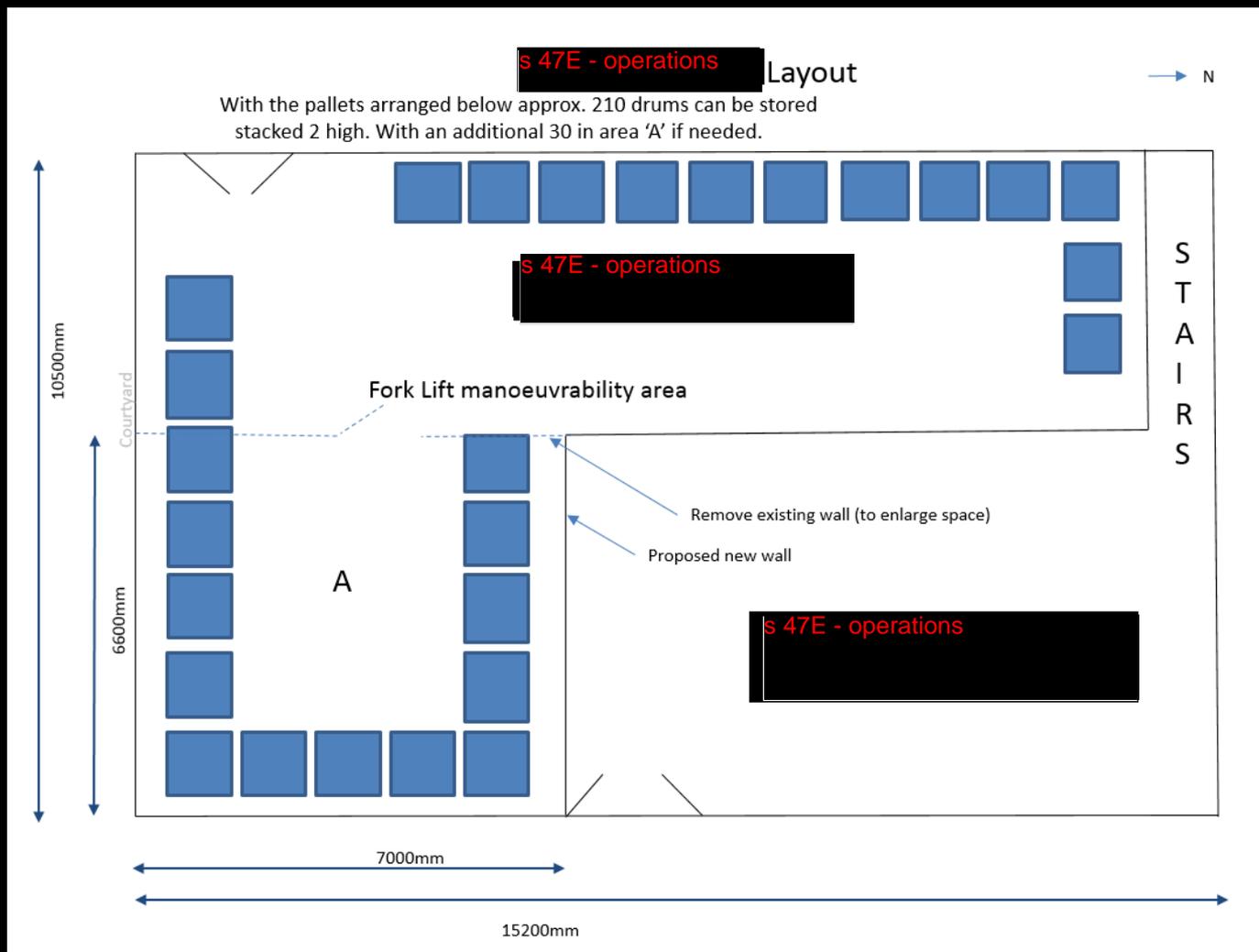
# Proposed Storage Area



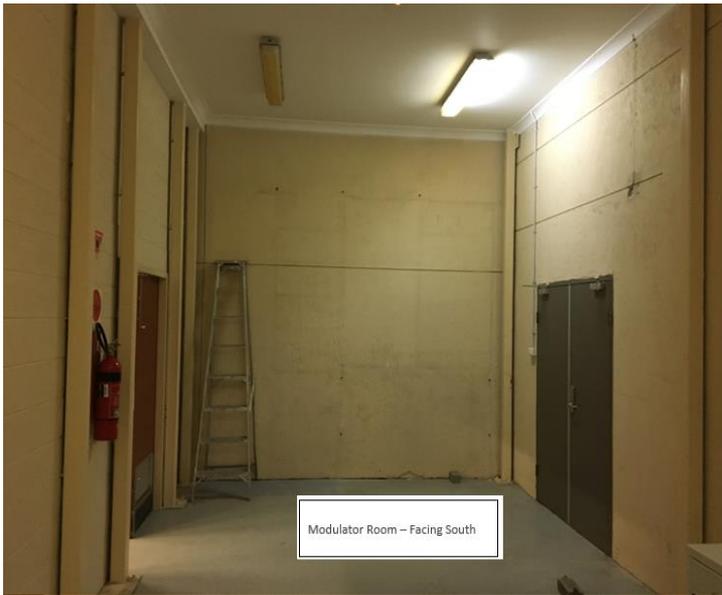
s 47E - operations



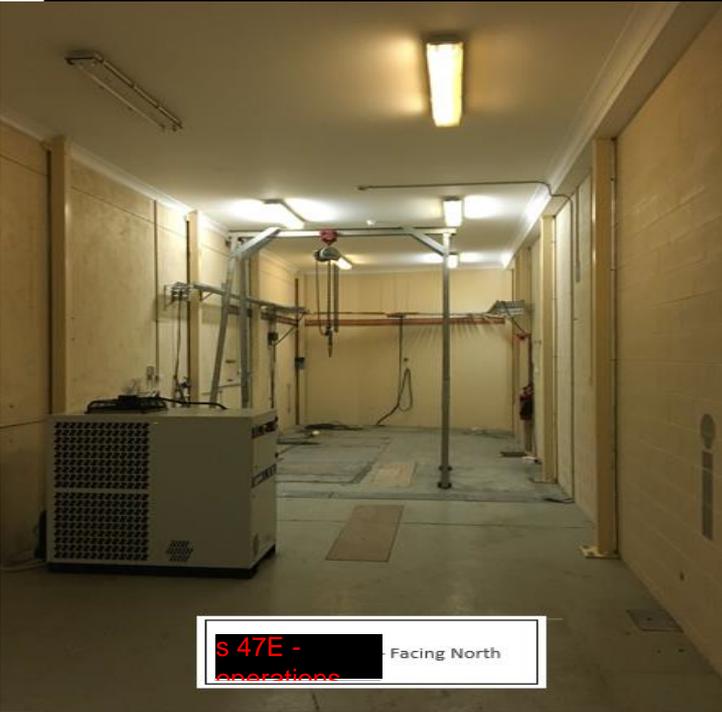
# Proposed Storage Area



# Proposed Storage Area



Modulator Room - Facing South



s 47E - Facing North



s 47E - Facing South

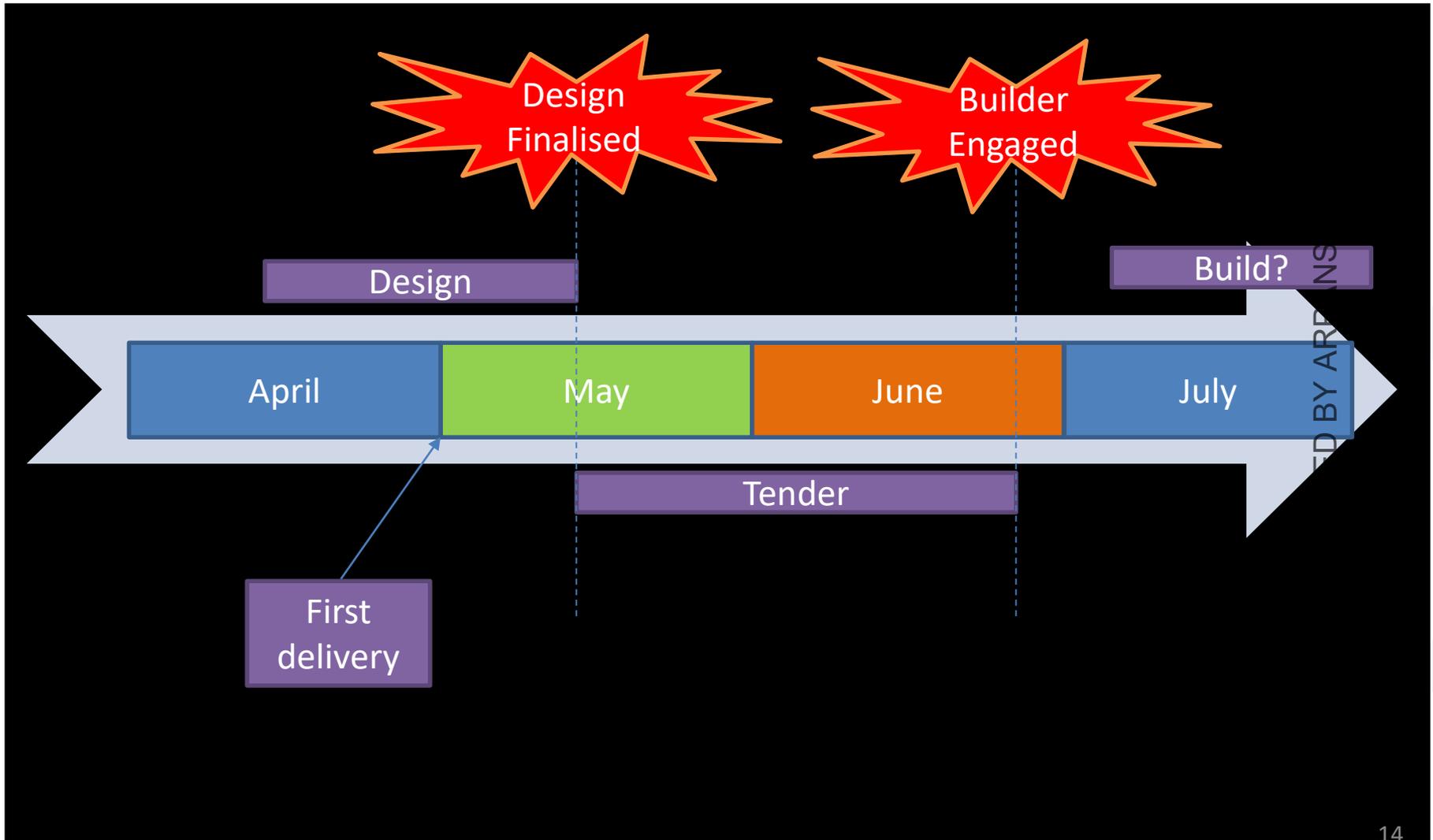
RELEASED BY ARPANSA UNDER FO

# Relocation of Chiller Unit





# Approximate Timelines



# Conclusions & Future

- Storage Project completed by end 2018. Ongoing management.
- Possible to reduce volume
- “Waste owners and producers are responsible for the appropriate management of their waste”
- Disposal in NRWMF



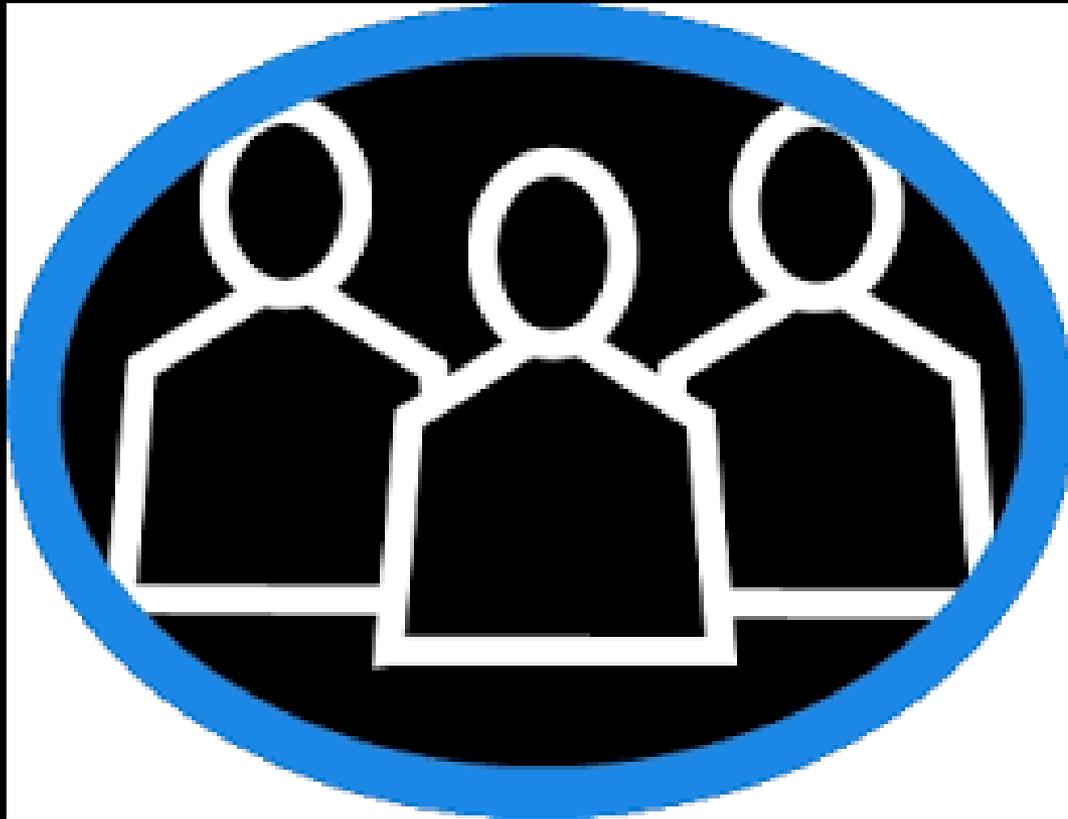
Australian Government  
Department of Industry,  
Innovation and Science

RELEASED BY ARPANSA UNDER FOI

**Australian Radioactive Waste  
Management Framework**

April 2018

# Q&A





**Sent:** Tuesday, 17 April 2018 1:44 PM

**To:** Andrew Clegg <xxxxxx.xxxxx@xxxxxxx.xxx.xx >

**Subject:** Re: ARPANSA Waste Store - Design Kick Off Meeting Notes 09/04/2018  
[SEC=UNCLASSIFIED]

Hi Hi Andrew<?xml:namespace prefix = o ns = "urn:schemas-microsoft-com:office:office" />

I hope this email finds you well, following on our telephone conversation last

week, please find below our respond to the key dot point as discussed:

1. The tender will use "Construction" Version Drawings and documentation. **Agreed, the Final Plans will be use for the tender;**
2. 20/04/2018 - Initial Design Drawings of Layout and Section to be submitted for ARPANSA Review and Approval. **Agreed, the initial design drawings of layout and section will be submitted to ARPANSA for review and approval;**
3. Expect 1 week for ARPANSA to circulate and review. **Agreed;**
4. 11/05/2018 – Final Issue for Construction (IFC) Drawings/Documentation completed. (Include services and roof plan). **Agreed/noted;**
5. Sealing of area discussed including trenches with steel insert and draw wires. **Agreed/noted;**
6. Note paint finishes in notes. **Agreed/noted;**
7. Lightweight construction preferred as lower associated labour cost. Concrete block wall not required. **Agreed;**
8. Roof will be strong enough for lightweight storage. No racks. **Agreed, will be design to carry out the load for light weight storage facilities, required some clarification from ARPANSA prior to final plans;**
9. Yellow non-compliant stairs/ladder + goods lift to be removed. And disposed. **Agreed, by the ARPANSA;**
10. Building code fire egress and room distances only need 1 fire egress for both existing control room and also Waste Store. The fire egress from waste store would be to courtyard. **Agreed and correct;**
11. Building code only requires point and distributed loadings on floor. Wall strength is only structural. Not required as a fall arrest. **As the proposed racking are free standing and is not required to be fix into the wall, the proposed light weight construction will be suitable for the enclosure of the storage room;**
12. Ventilation – ARPANSA require only "movement of air". External ventilation system with mushroom lid flue that will penetrate the roof in two places. No structure required. Mechanical design for 6 air changes/hr to be included in design brief. Comrez **s 47F -** will arrange installation. **Agreed, will be engaged a suitable qualified Mechanical Engineer to design the ventilation in accordance with the Australian Standards.**

Furthermore I have enclosed our first progress payment Tax Invoice for your approval, your prompt assistant in this matter will be sincerely appreciated.

As always happy to discuss and answer any questions.

Kind regards

s 47F - privacy

A. S. Building Consultants

----- Original Message -----

**From:**

"Andrew Clegg"

<[andrew.clegg@arpansa.gov.au](mailto:andrew.clegg@arpansa.gov.au)><[andrew.clegg@arpansa.gov.au](mailto:andrew.clegg@arpansa.gov.au)>

**To:**

s 47F - privacy

**Cc:**

**Sent:**

Tue, 10 Apr 2018 01:07:29 +0000

**Subject:**

ARPANSA Waste Store - Design Kick Off Meeting Notes 09/04/2018  
[SEC=UNCLASSIFIED]

Hi s 47F ,

Please find some of the key dot points we made in our discussion yesterday.  
Please read, digest and let me know if I have missed anything.

- The tender will use "Construction" Version Drawings and documentation.
- 20/04/2018 - Initial Design Drawings of Layout and Section to be submitted for ARPANSA Review and Approval
- Expect 1 week for ARPANSA to circulate and review.
- 11/05/2018 – Final Issue for Construction (IFC) Drawings/Documentation completed. ( Include services and roof plan)
- Sealing of area discussed including trenches with steel insert and draw wires.
- Note paint finishes in notes.

RELEASED BY ARPANSA UNDER FOI

- Lightweight construction preferred as lower associated labour cost . Concrete block wall not required.
- Roof will be strong enough for lightweight storage. No racks.
- Yellow non-compliant stairs/ladder + goods lift to be removed. And disposed.
- Building code fire egress and room distances only need 1 fire egress for both existing control room and also Waste Store. The fire egress from waste store would be to courtyard.
- Building code only requires point and distributed loadings on floor. Wall strength is only structural. Not required as a fall arrest.
- Ventilation – ARPANSA require only “movement of air”. External ventilation system with mushroom lid flue that will penetrate the roof in two places. No structure required. Mechanical design for 6 air changes/hr to be included in design brief. Comrez ( Joe Horvat) will arrange installation.

Other information:

18/05/2018 – 25/05/2018 – Proposed window for ARPANSA to issue as tender ( based on timing discussed at onsite meeting yesterday)

Regards

**Andrew Clegg**

**Facilities Manager**

**Australian Radiation Protection and Nuclear Safety Agency**

619 Lower Plenty Road, Yallambie, VIC 3085, AUSTRALIA

Mobile 04 1864 5596

email [andrew.clegg@arpansa.gov.au](mailto:andrew.clegg@arpansa.gov.au)">[andrew.clegg@arpansa.gov.au](mailto:andrew.clegg@arpansa.gov.au)

<http://www.arpansa.gov.au/>"><http://www.arpansa.gov.au>

\*\*\*\*\*  
Important: This email (including any attachments) is intended only for the use of the addressee and may contain confidential and / or privileged information. If you are not the intended addressee, you are prohibited from relaying on, distributing, disclosing, copying or in any other way using any information in this email. If you have received this email in error, please notify the sender immediately and erase all copies.  
Any opinions expressed in this email are not necessarily held or authorised by Australian Radiation Protection And Nuclear Safety Agency (ARPANSA). Whilst ARPANSA has taken all reasonable steps to ensure this is email is virus free, it accepts no responsibility and makes no warranty. The recipient should take its own steps to ensure there is no virus and bears full responsibility for any use.

Australian Radiation Protection And Nuclear Safety Agency  
\*\*\*\*\*

Email sent using Optus Webmail

---

Email sent using Optus Webmail

RELEASED BY ARPANSA UNDER FOI



# Construction RFQ– Waste Storage Area Yallambie

<b>Project Name:</b>	Waste Storage Area - Yallambie		
<b>Date:</b>	14/06/2018	<b>Release:</b>	Issue as RFQ
<b>Author:</b>	A.Clegg		
<b>Owner:</b>	A.Clegg		
<b>Container:</b>	2017/01479(08)		

Revision Date	Previous Revision Date	Summary of Changes	Changes Marked
14/06/2018	V0	Initial	-

## Project Overview:

The ARPANSA Yallambie Facility is located at 619 Lower Plenty Road, Yallambie, Vic 3085. It is proposed to create a Waste Storage Area at this site located in the rear ground floor **s 47E - [REDACTED]**. Some minor construction works are required to increase the size and capacity of the proposed waste storage area. These works are broadly to extend the internal block wall of the **s 47E - operations [REDACTED]**.

## Request for Quotation (RFQ):

A quotation is required to provide construction sourcing from builders to fulfil ARPANSA governance requirements.

**Quotation due 26 June 2018**

## Site availability for Inspection for Quoting:

Confirm prior with ARPANSA Facility Manager on 0418645596 for the following times:

- Tuesday 19/06/2018 between 08.30am – 09.00am
- Wednesday 20/06/2018 between 11.30am – 12 noon
- Monday 25/06/2018 between 08.30am – 09.00am

## Project documentation includes:

### Design

- Architectural drawings/plans
- Engineering drawing/plans
- Mechanical drawings/plans

Asbestos Register

Police Check Information PowerPoint

## Project Timing:

**Project Timing for completion /issue of Certificate of Occupancy by 30 August 2018**

## Project Considerations:

No Planning Permit will be required

Building Permit will be arranged by **s 47F -** C/- AS Building Consultants  
Suite1, 418-428 Bell Street Pascoe Vale Victoria 3044 Tel: 9078 9207 E-Mail: bpermit24hr@optusnet.com.au

Building Certifier (including Fire Systems ) will be **s 47F -** C/- AS Building Consultants

Certificate of Occupancy to be issued as appropriate by relevant Building Surveyor **s 47F -** C/- AS Building Consultants

Other projects and construction works will be undertaken around the facility during this time. These will include fault attendance and access and routine maintenance contractors .

Noisy works to be prior to 0900 weekdays.

## Project Functionality:

The proposed waste storage area in the **s 47E -** will be to house 210 drums of building material waste. Drums used for this storage are of the 44-gallon type drums. These will be transported to ARPANSA on "Chep Type" pallets. Each pallet will contain four drums. Each drum is rated at maximum of 220 kg and mass of contents will not exceed this. Of note is that whilst this is the maximum drum load and weight some drums may be significantly lighter than this due to contents being lighter weight (e.g. wood beams). A detailed drum manifesto (via ANSTO) will be available with drum referencing contents and weights. For the purposes of project design and construction, the maximum drum loading of 220 kg shall be assumed.

The waste storage area in the **s 47E -** will require removal of existing equipment, sealing of floors and wall penetrations and painting. The final arrangement will include installation of air flow, appropriate locking, local alarms and shelving to accommodate drums.

Drum configuration inside the proposed expanded modulator room/new Waste Storage Room is for:

- A lower level of drums on pallets to be mounted on the concrete floor.
- A second, higher level, is proposed to be mounted on shelving directly above the lower level of drums. For design purposes it should be assumed that a third level of shelving is included so that the drums may be arranged three-high.
- Drum location and placement is to facilitate regular visual inspections, air circulation and accessibility for any future drum/pallet handling via a forklift (e.g. Crown model 25WRTL102 or similar unit).

## Building Changes:

### No Change:

Door from § 47E - operations (Existing electric “Kara” brand lock is installed and will remain)

Courtyard

Basement Linac area

Plant Room Ramp

### Changes:

Extend § 47E - – Refer Attachment A.

New § 47E - walls.

Internal roof above modulator room to be extended across new walls.

Seal wall and floor penetrations. (leaving space for data cable runs and draw wires). Suggested approach is inserting steel bridge to maintain cable route for future cable runs and caulk/seal with cement. Inspection recommended.

Ceiling, wall and floor caulk seal, prep and paint.

Make good to existing.

### **Demolition:**

Removal of small internal goods lift

Removal of non compliant ladder

Remove data and electrical cable trays.

**Chiller:**

Existing Linac Chiller Unit MTA EVO 051 (located in **s 47E -**) will be removed by others (Comrez) prior to site construction works.

**Fire Systems:**

Refer to design drawings and documentation.

**Security:**

Security Systems – Existing electric door combination locks is adequate and no change required.

**Radon Monitoring Alarms:**

Supply with project 3 wireless Radon detectors. (Corentium Pro Airthings units) Detectors). Information available upon request.

Unit information is available via the following link: <https://airthings.com/us/>

**Electrical:**

Retain existing GPOs in original **s 47E - operations** areas where possible. No further GPO's to be installed in Modulator Room.

- Replace **s 47E -** lighting with energy efficient LED lighting. Lighting shall be wired in two banks ( 2 switches) and controlled at one position with a neon indicator ).

All circuits shall be labelled. All switches and GPO's shall be labelled with the source distribution board number and circuit number.( Eg "DBU1 – CB 23")

Wiring to be completed at AS3000 with a certificate of Electrical Safety for any works provided.

**Ventilation:**

Refer to design drawings and documentation.

Builder to provide of a set of "No Volt" contacts on the exhaust fan motor to allow others to connect monitoring of the associated fan motor. ( Other parties to provide this monitoring and integration with the internal BMS system).

## Fire Systems:

Refer to design drawings and documentation.

## Data/Alarms:

Refer to design drawings and documentation.

## Floor:

Refer to design drawings and documentation.

## Doors

Refer to design drawings and documentation.

## Building Code

Builders to comply with the Australian Building and Construction Commission as per work for Commonwealth entities and associated contract clauses (see <https://www.abcc.gov.au/building-code/funding-entities>).

## Construction Access / Misc:

- Rear Basement double secure door via plant room ramp to s 47E - [REDACTED].
- Ramp to be a common or shared space for staff and maintenance contractor's space
- Construction zone anticipated to be from the door from plant room ramp to s 47E - [REDACTED].
- Appropriate signage/barrier/temporary hording is anticipated in the linac control room & also the internal courtyard to zone off the construction area for safety.
- Generally access inside building will be limited to construction zone,
- Work to be completed during business hours. 0700 – 1700 Monday to Friday.
- Weekend work generally to be avoided.
- Please note rear of building will have the presence of other contractors maintenance and other projects.
- Builders to provide their own amenities.

## Health & Safety Considerations

As is typical for this age of building asbestos is present in some areas.

The ARPANSA asbestos register is included for inspection.

Most electrical circuits are well labelled. However all electrical circuits should be tested to confirm source and state. Please note that ARPANSA require any ceiling grid should be inspected and tested to ensure during construction works that this does not become electrically energised/live.

Fire and smoke detector isolations, augmentations and re-commissioning is via written approval from ARPANSA Facility Manager. 5 days notice is requested for large non routine works and should be via an impairment notice.

## Security:

Refer Attachment D: Construction Access & Security – Yallambie.

## Records:

ARPANSA Records - Hard Copy Facility drawings are available for inspection and a copy can be provided electronically. However, this is by person and by arrangement.

Service Provider Records:

These remain the property of ARPANSA at all times (both .dwg and .pdf).

Electronic files in .dwg and .pdf file formats shall be provided to client ARPANSA at the following stage;

- (i) As-Built Stage

## Incumbent Suppliers

The follow list includes incumbent suppliers that may be contacted & utilised if the builder wishes. These parties hold site experience, inductions and valid police checks.

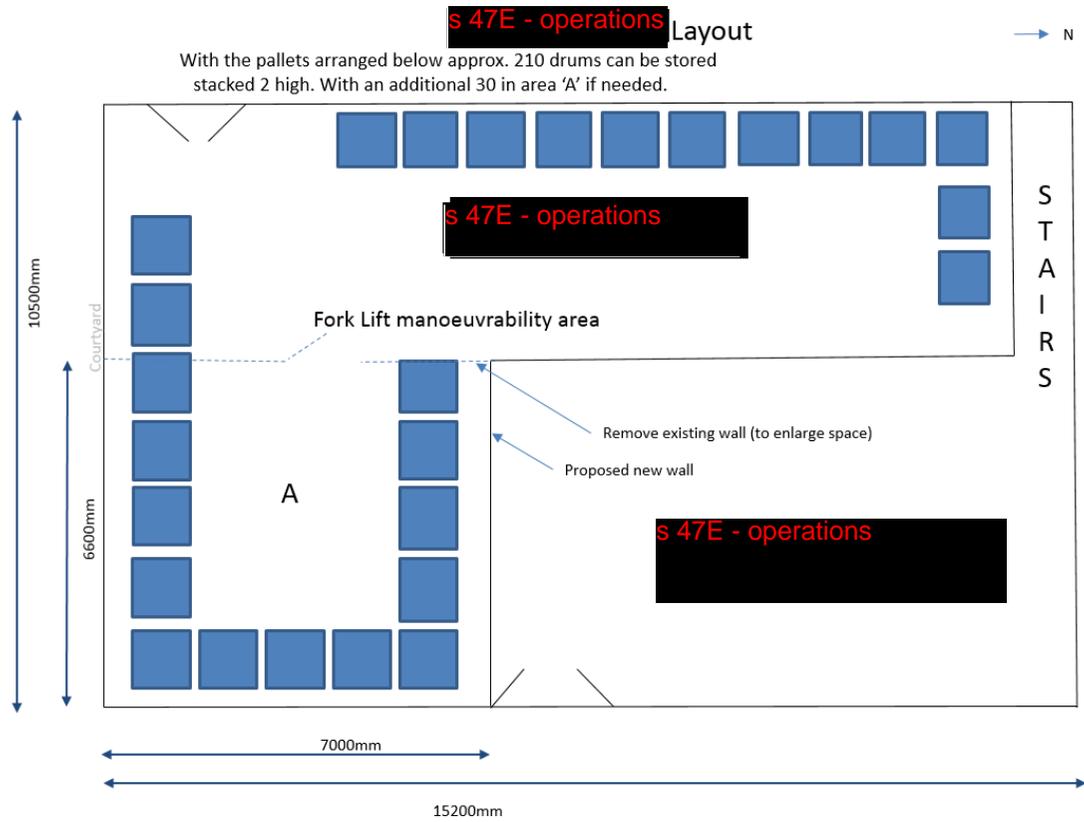
- Mechanical/General Property – Comrez – s 47F - privacy
- Electrical – KBP Electrical – s 47F - privacy
- Fire Systems – Fire Security Services – s 47F - privacy
- Plumbing – Viney Plumbing – s 47F - privacy

## RFQ Response:

Template to be completed by invited parties please refer Attachment E: RFQ Response Template.

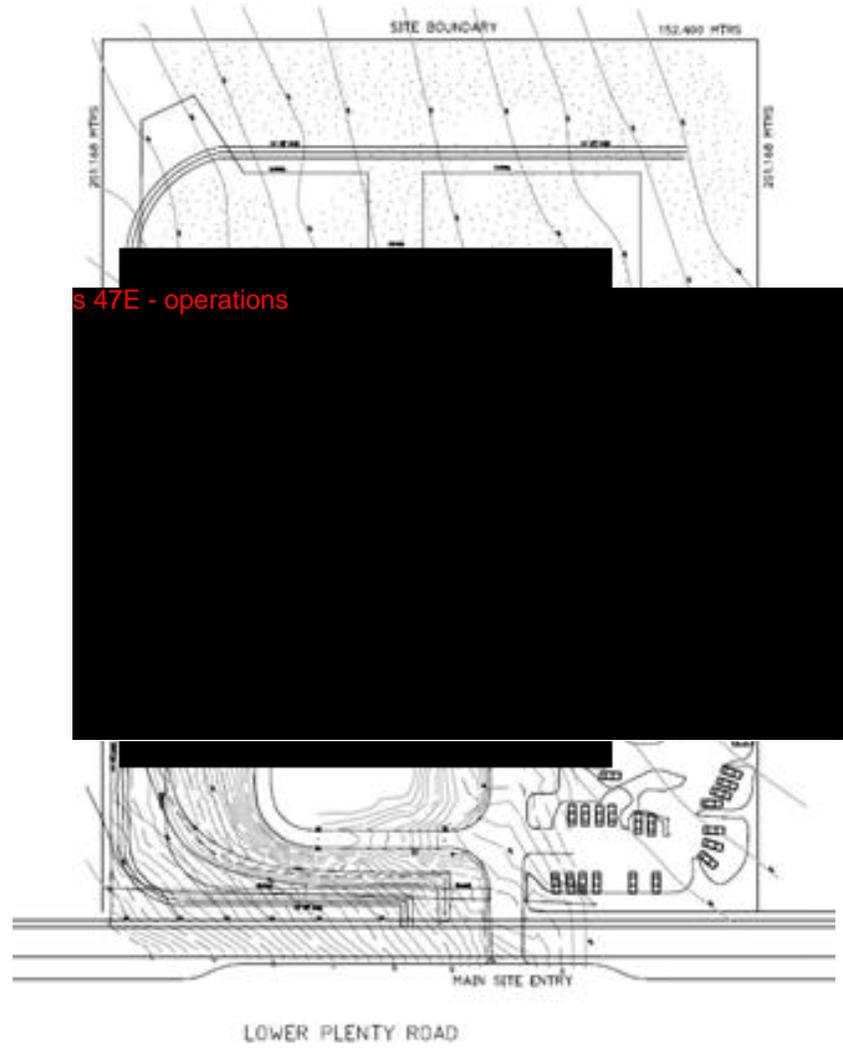


### Attachment A – Proposed Area



RELEASED BY ARPANSA UNDER FOI

*Attachment B – General Area:*



RELEASED BY ARPANSA UNDER FOI

8 9 1 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

Access

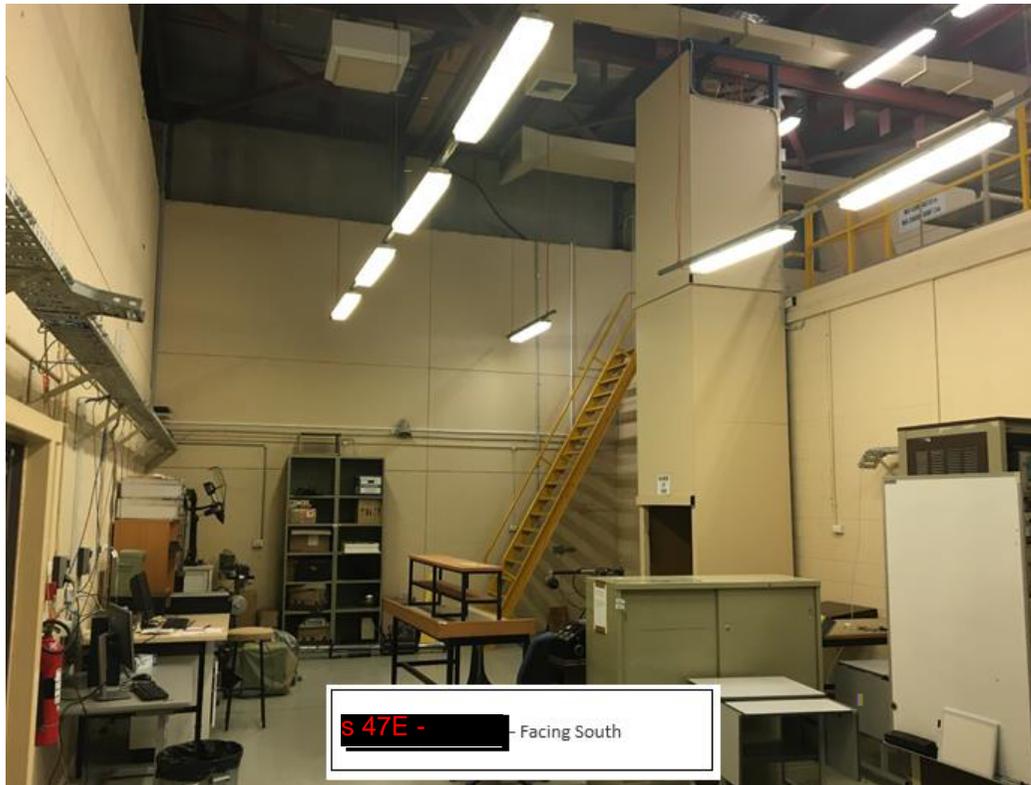
34.0

FO

s 47E - operations

*Attachment C – Photographs:*

RELEASED BY ARPANSA UNDER FOI

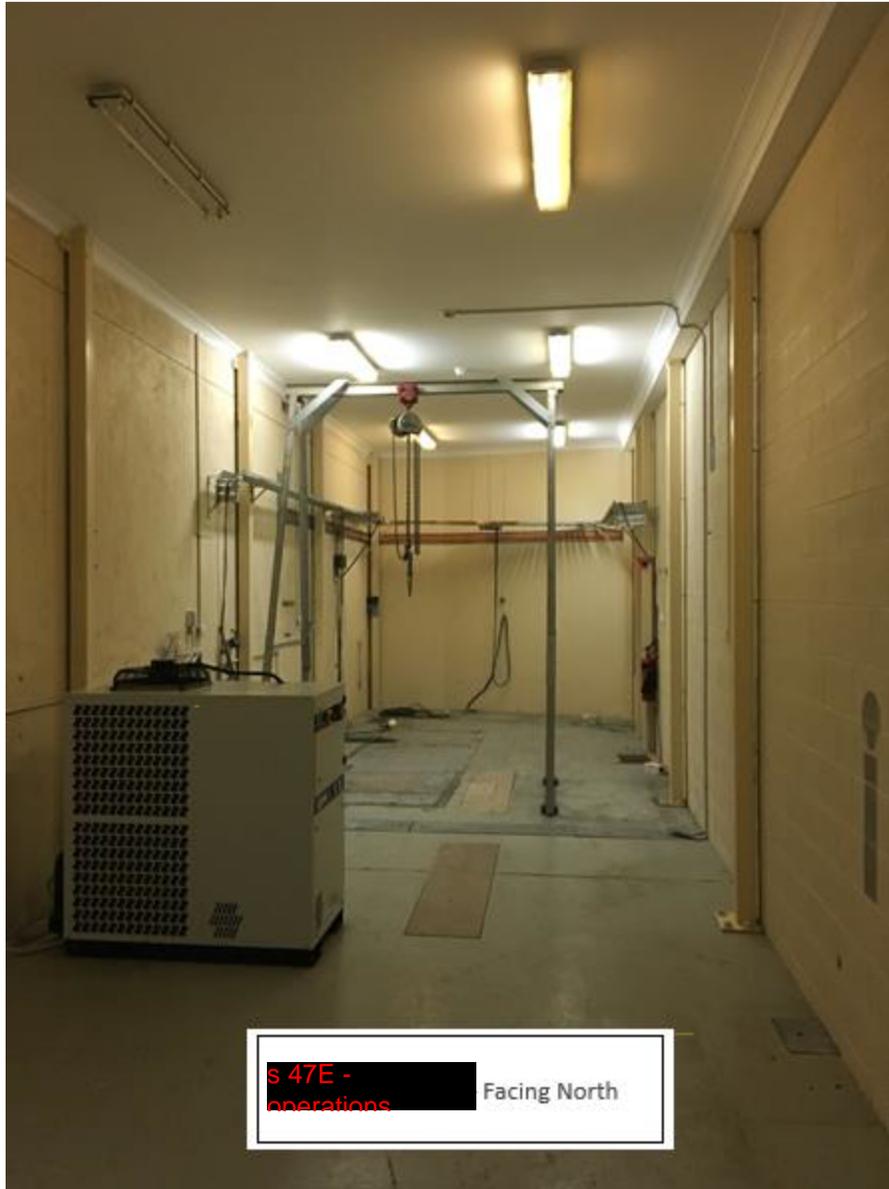


S 47E - [redacted] - Facing South





RELEASED BY ARPA/NSA UNDER FOI



s 47E - operations Facing North

RELEASED BY ARPANSA UNDER FOI



RELEASED BY ARPANSA UNDER FOI





**Attachment D**

**Construction Access & Security - Yallambie**

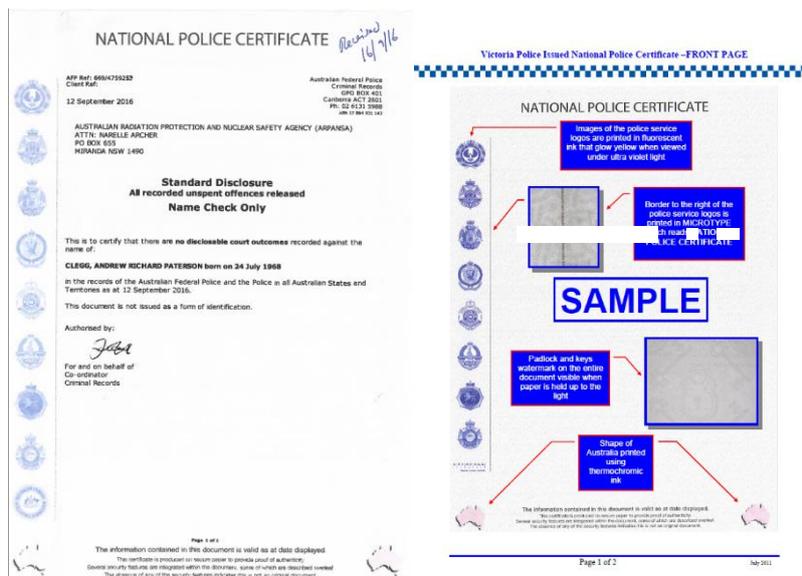
- Construction site to be labelled and have a clear demarcation zone starting from Level 1 adjacent to stairs.
- Demarcation zone between construction zone and office space.
- Contractors to have their nominated Site Manager on site at all time. (Or appointed delegate).

**Site Manager and all other Construction personnel:**

Includes main contractor staff and subcontractors.

- All to be nominated including subcontractors.
- Photo ID required to be presented prior to project start and sighted on attendance.
- Required to have a current *“Victoria Police Issued National Police Certificate”* (refer attachment A below).
- An alternative online Police History Check is acceptable (NCC/CV Check/Fit for Work) – however care needs to be exercised as these can expire.
  - (If the main contractor’s nominated subcontractor is substituted. ARPANSA is to be notified. In this case access for this person will be via an escort at all times by an employee of the same company).
  - Further Information is described in the ARPANSA document : *NPC and Police Check Information Sheet.ppt*

- *“Victoria Police Issued National Police Certificate”*.



RELEASED BY ARPANSA UNDER FOI

**Attachment E**

**RFQ Response Template**

Quoted Cost		
Labour	\$	
Materials	\$	
Total Cost ( ex GST)	\$	
Total Cost ( Incl GST)	\$	
Copies of certificates of currency for public liability (\$20 million minimum) and WorkCover insurance	Please attach	
WH&S Credential to be listed	Please attach	
Confirmation that the business has had zero charges or prosecutions associated with WorkSafe Victoria in last 10 years	Y/N	
Acknowledgement that works will be completed to ABCC requirements in the contract clauses	Y/N	
Construction delivery date based on Contract establishment and PO Generated by 30 June 2018	Complete dd/mm/yyyy	
Technical Referee for a recent Victorian Construction Commercial Project	Name/Title/Role:	Phone Number/ Email Address:
Confirm pricing is in accordance to supplied:  Architectural drawings/plans  Engineering drawing/plans	Y/N	

RELEASED BY ARPANSA UNDER FOI

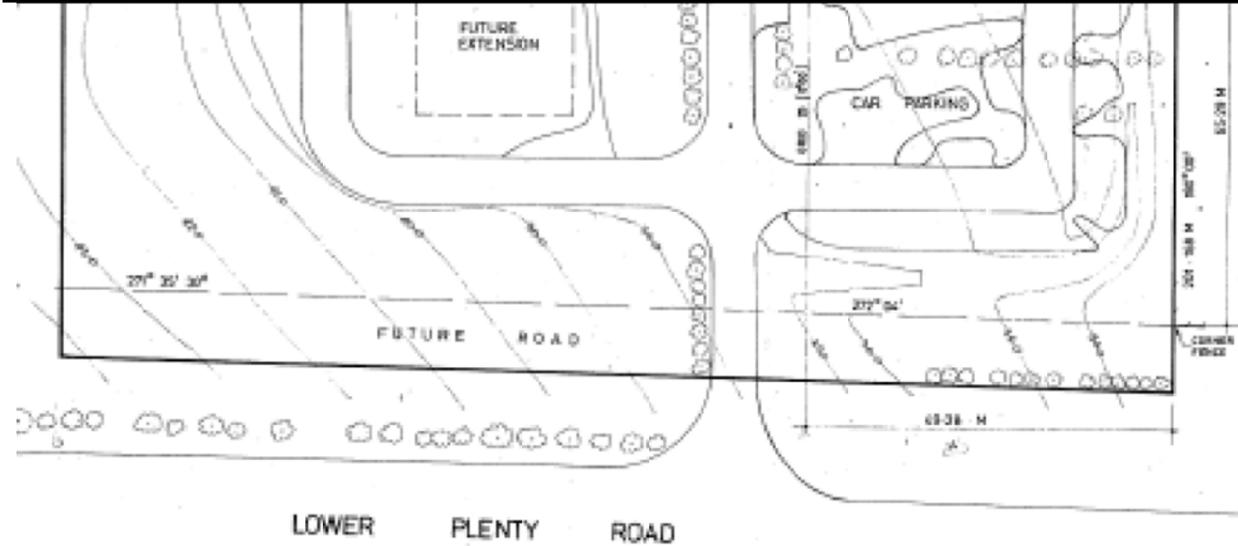
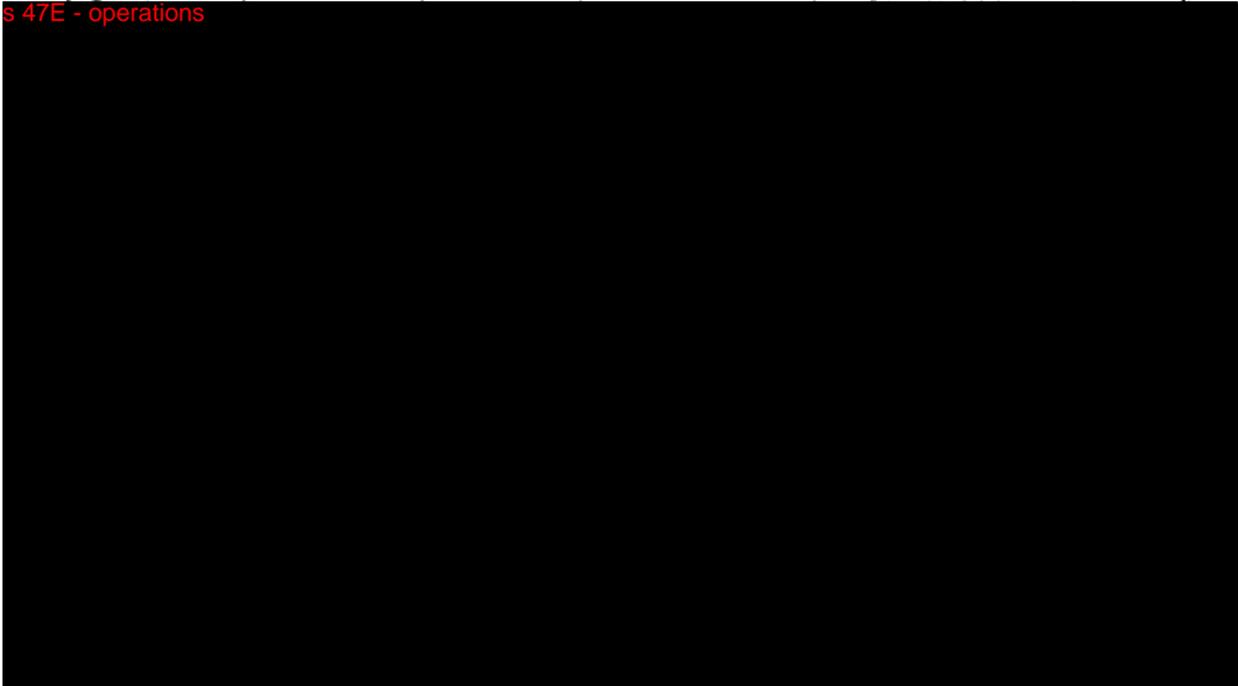
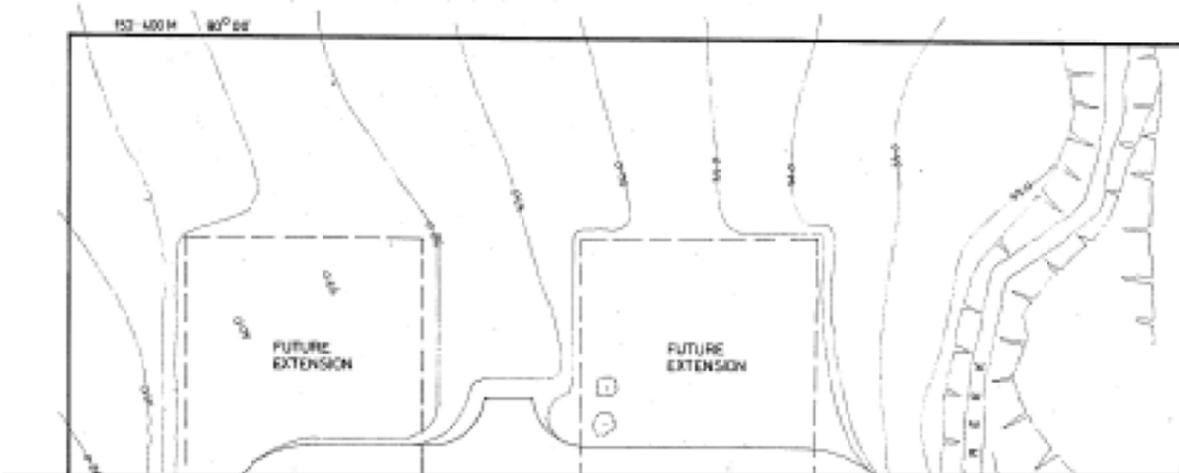
Mechanical drawings/plans		
Advise any non-conformance	List Below	

RELEASED BY ARPANSA UNDER FOI

# GENERAL NOTES:

1. DO NOT SCALE DRAWINGS, USE WRITTEN DIMENSIONS ONLY. BUILDER TO VERIFY ALL LEVELS AND MEASUREMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. BUILDER TO CHECK PLANS AGAINST ON SITE CONDITIONS AND REPORT ANY DISCREPANCIES TO THE DRAFTSPERSON IMMEDIATELY.
2. THE BUILDER IS TO ENSURE THAT NO PART OF THE STRUCTURE INCLUDING DRAINAGE AND FOOTINGS IS TO ENCROACH OVER THE TITLE BOUNDARY
3. SITE BOUNDARY TO BE VERIFIED PRIOR TO ANY WORKS COMMENCING, BUILDER / OWNER TO ENGAGE A SUITABLE QUALIFIED LAND SURVEYOR IF REQUIRED.
4. SITE CLASSIFICATION, CLASS N/A OR AS PER THE SOIL REPORT IF UNDERTAKEN, THE DRAFTSPERSON IS TO BE IMMEDIATELY NOTIFIED IF THE SITE CLASSIFICATION OR THE FOUNDING DEPTH OF THE SOIL REPORT DIFFERS FROM THE ARCHITECTURAL PLANS.
5. THE BUILDER AND/OR THE OWNER SHALL TAKE ALL STEPS NECESSARY TO ENSURE THAT THE STABILITY AND GENERAL WATER TIGHTNESS OF ALL NEW AND/OR EXISTING STRUCTURES DURING ALL BUILDING WORKS.
6. ALL EXISTING CONDITIONS TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OR ORDERING OF MATERIALS.
7. ALL FOOTINGS TO COMPLY WITH AS 2870/1996
8. ALL TIMBER FRAMING TO COMPLY WITH AS 1684/2006 PARTS 2, 3 & 4
9. ALL STRUCTURAL TIMBERWORK SHALL CONFORM TO THE REQUIREMENTS OF AS1720S.A.A TIMBER ENGINEERING CODE AND AS 1684 S.A.A LIGHT TIMBER FRAMING CODE
10. ALL ROOF FIXINGS AND TIE DOWNS ARE TO COMPLY WITH AS 1684 / 2006 PARTS 2, 3 & 4
11. ALL WALLS AND ROOF BRACING IS TO COMPLY WITH AS 1684 / 2006 PARTS 2,3 & 4
12. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA, THE BUILDING REGULATIONS, THE BUILDING ACT AND ANY OTHER RELEVANT BY-LAWS, AUSTRALIAN STANDARDS, ACTS OR LOCAL COUNCIL REQUIREMENTS.
13. ALL PLUMBING TO BE DONE BY REGISTERED PLUMBERS IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND TO THE SATISFACTION OF THE LOCAL AUTHORITY. ALL JOINS TO BE WATER TIGHT.
14. A LICENSED PLUMBER IS TO SEAL AND MAKE SURE ALL GAS AND WATER SUPPLIES TO THE AREA AFFECTED BY WORKS ON SITE
15. A LICENSED ELECTRICIAN IS TO DISCONNECT AND MAKE SAFE ALL POWER SUPPLY TO THE AREA AFFECTED BY WORKS ON SITE
16. PROVIDE THERMAL INSULATION AS PER THE REQUIREMENTS OF THE BUILDING CODE OF AUSTRALIA (PART 3.12 OF THE BUILDING CODE OF AUSTRALIA)
17. ALL GLAZING TO COMPLY WITH AS 1288/2006
18. STEPS - MAXIMUM RISER 190mm MINIMUM TREAD 250mm AS PER THE BUILDING CODE OF AUSTRALIA
19. HANDRAILS TO BE A MINIMUM 865mm ABOVE THE NOSING OF TREADS AND 1000mm ABOVE THE LANDING WITH BALUSTRADES A MAXIMUM 125mm APART. MAXIMUM 125mm SPHERE BETWEEN TREADS.
20. BALUSTRADES TO BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA , AS1770.1 DEAD AND LIVE LOAD COMBINATIONS, AND AS/NZ1170.1-PERMANENT, IMPOSED AND OTHER ACTIONS. BALUSTRADES 4000mm AND GREATER ABOVE THE SURFACE BENEATH MUST NOT HAVE ANY PART THAT IS CLIMBABLE.
21. CONCRETE STRENGTH TO BE A MINIMUM 20MPA IN 28 DAYS
22. PROVIDE EMERGENCY LIFT UP HINGES TO THE TOILET DOORS WHERE THE DISTANCE TO THE THE DOOR FROM THE PAN IS LESS THAN 1200mm AS PER THE BUILDING CODE OF AUSTRALIA
23. LIGHT AND VENTILATION IS TO COMPLY WITH THE REQUIREMENT S OF THE BUILDING CODE OF AUSTRALIA.
24. ALL EXTERNAL STEEL WORKS SHALL BE HOT DIPPED GALVANIZED, INTERNAL STEEL WORK SHALL BE PRIMED WITH INORGANIC ZINC SILICATE COAT IN ACCORDANCE WITH AS3700/2001 AND AS PER THE BUILDING CODE OF AUSTRALIA
25. THESE NOTES ARE NEITHER EXHAUSTIVE, NOR A SUBSTITUTE FOR THE REGULATIONS, STATUTORY REQUIREMENTS, BUILDING PRACTICE OR CONTRACTUAL OBLIGATIONS AND UNLESS EXPRESSLY STATED OTHERWISE ARE PROVIDED ONLY AS GUIDELINES. NO RESPONSIBILITY IS ACCEPTED FOR THERE USE.
26. PROVIDE ROOF FLASHING AS PER THE BUILDING CODE OF AUSTRALIA
27. AREAS ADJACENT TO FOOTINGS ARE TO BE GRADED AND DRAINED AWAY FROM THE BUILDING TO PREVENT PONDING OF WATER
28. THE MINIMUM FALL OF A BOX GUTTER IS TO BE 1:100
29. PROVIDE TERMITE PROTECTION IN ACCORDANCE WITH AS3660.1/200 IF REQUIRED BY THE RELEVANT COUNCIL
30. EXIT DOORS WHICH SWING AWAY FROM THE DIRECTION OF EXIT TRAVEL TO BE CAPABLE OF BEING HELD IN THE OPEN POSITION
31. POWER OPERATED SLIDING DOORS SERVING AS EXITS ARE TO BE CAPABLE OF BEING OPENED BY HAND UNDER A FORCE NO MORE THAN 110N UPON MALFUNCTION OR FAILURE OF THE POWER SOURCE
32. NON-SLIP FINISHES TO BE PROVIDED TO ALL STEPS, RAMPS AND LANDINGS
33. SIGNS REQUIRED TO FIRE DOORS INDICATING "FIRE DOOR - DO NOT OBSTRUCT" IN 20mm HIGH LETTER IN A CONTRASTING COLOUR IN ACCORDANCE WITH CLAUSE D2.23, BCA 2009
34. ALL PENETRATIONS THROUGH THE FIRE RATED MEMBERS TO BE SEALED USING FIRE COLLARS OR FIRE SEAL AS APPROPRIATE IN ACCORDANCE WITH CLAUSE C 3.15, BCA 2009
35. DISABLES ACCESS, SANITARY FACILITIES AND SIGMA TO BE PROVIDED IN ACCORDANCE WITH AS1428.1
36. EXHAUST AIR OUTLETS NOT TO BE LOCATED CLOSER THAN 6m TO FRESH AIR INLETS
37. MECHANICAL VENTILATION SYSTEM TO COMPLY WITH AS1668.2-1991 & AS/NZS3666.1&2-2002
38. MINIMUM 2400mm CEILING HEIGHT TO ALL NEW PORTIONS OF CEILING
39. FIRE INDICES OF MATERIALS, LINING AND SURFACE FINISHES TO COMPLY WITH SPECIFICATION C1.10, BCA
40. ELECTRICAL SWITCHBOARDS LOCATED IN THE PATH OF TRAVEL TO EXITS TO BE ENCLOSED IN NON-COMBUSTIBLE CONSTRUCTION OR A FIRE PROTECTIVE COVERING WITH WITH DOORWAYS OR OPENING SUITABLY SEALED AGAINST SMOKE SPREADING FROM THE ENCLOSURE
41. EXIT DOORS WHICH SWING AGAINST THE DIRECTION OF EXIT TRAVEL TO BE CAPABLE OF BEING HELD IN THE OPEN POSITION
42. GUARDRAILS ARE TO BE PROVIDED TO ROOF PLATFORM IF A PLATFORM EXCEEDS 300mm IN HEIGHT FROM EXISTING ROOF LINE. DESIGN, CONSTRUCTION AND INSTALLATION OF ACCESSWAY, LADDER AND FIXED PLATFORM IS TO BE IN ACCORDANCE WITH AS1657-1992
43. ARTIFICIAL LIGHTING TO COMPLY WITH AS1680.0-1998
44. ALL DOORWAYS TO HAVE A MINIMUM UNOBSTRUCTED HEIGHT OF 2m AND MINIMUM WIDTH NOT LESS THAN 750mm OR 850mm TO ALLOW FOR DISABLED ACCESS.
45. EXIT SIGNS AND EMERGENCY LIGHTS TO COMPLY WITH AS2293.1-2005
46. PORTABLE FIRE EXTINGUISHERS TO COMPLY WITH AS2444-2001. PROVIDE 3A 20B (E) DRY CHEMICAL PORTABLE FIRE EXTINGUISHER WITHIN 2m TO 20m OF ALL ELECTRICAL SWITCHBOARDS.
47. FIRE HOSE REEL INSTALLATION TO COMPLY WITH AS1221 & AS2441-2005
48. ALL EXIT DOORS AND DOORS IN THE PATH OF TRAVEL TO EXITS (INCLUDING ROLLER SHUTTER GRILLES) ARE TO BE CAPABLE OF BEING OPENED AT ALL TIMES FROM THE SIDE FACING A PERSON SEEKING EGRESS FROM THE BUILDING WITH A SINGLE HANDED DOWNWARD OR PUSHING ACTION ON A SINGLE DEVICE WITHOUT THE USE OF A KEY AND LOCATED BETWEEN 900mm AND 1200mm ABOVE FLOOR LEVEL IN ACCORDANCE WITH CLAUSE D2.21, PCA 2009.
49. ALTERATIONS TO THE SPRINKLER SYSTEM WILL BE CARRIED OUT TO COMPLY WITH AS2118.1-1999
50. ALTERATIONS TO THE SPRINKLER SYSTEM WILL BE DOCUMENTED, INSPECTED AND APPROVED AS COMPLYING WITH AS2118 BY THE FIRE PROTECTION INSPECTION SERVICE (OR OTHER APPROVED SPRINKLER INSPECTION AND TESTING SERVICE) AND THEIR WRITTEN APPROVAL PROVIDED TO THE RELEVANT BUILDING SURVEYOR ON COMPLETION OF THE WORKS.
51. SEPARATING WALLS WHICH EXTEND UP TO THE ROOF COVERING MUST BE PACKED WITH A SUITABLE FIRE RESISTING MATERIAL
52. SMOKE ALARMS ARE TO BE HARD-WIRED AND IN ACCORDANCE WITH AS3786-1993
53. WET AREAS WITHIN BUILDING AREA REQUIRED TO BE WATERPROOF OR WATER RESISTANCE IN ACCORDANCE WITH CLAUSE F1.7 OF THE BUILDING CODE OF AUSTRALIA VOLUME ONE AND AS3740.
54. ALL LIGHTING AND VENTILATION SHALL COMPLY WITH THE BUILDING CODE OF AUSTRALIA VOLUME ONE, PART F4 AND RELEVANT AUSTRALIAN STANDARDS
55. PRECAUTION MUST BE TAKEN BEFORE AND DURING BUILDING WORK TO PROTECT THE SAFETY OF THE PUBLIC. FURTHERMORE; UNDER NO CIRCUMSTANCES OWNER AND/OR BUILDER SHOULD PLACE ANY MATERIALS UPON THE FOOTPATH, NATURE STRIP OR COUNCIL RESERVE DURING THE BUILDING WORKS.
56. EMERGENCY LIGHTING AND EXIT SIGNS TO BE INSTALLED IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA VOLUME ONE AND AS 2293.1
57. EXIT DOORS TO COMPLY WITH PART D2.21 OF THE BUILDING CODE OF AUSTRALIA VOLUME ONE
58. ALL OF THE ELECTRICAL INSTALLATIONS SHALL COMPLY WITH AS/NZS 3013
59. FIRE HYDRANTS TO BE INSTALLED IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA VOLUME ONE AND AS 2419.1
60. ALL THE SERVICE PENETRATIONS AND CONTROL JOINT IN FIRE-RESISTANCE SEPARATION ELEMENTS SHALL COMPLY WITH AS 4072
61. ALL DOORS TO SANITARY COMPARTMENTS TO BE FITTED WITH SELF-CLOSERS
62. PROVIDE AN AUTOMATIC FIRE DETECTION AND ALARM SYSTEM COMPLYING WITH AS1670 AND MONITORED IN ACCORDANCE WITH CLAUSE 7 OF THE SPECIFICATION E2.2A
63. UNLESS STATED OTHERWISE THE BUILDER SHALL; MAKE PROVISIONS FOR ALL NECESSARY WATERPROOFING AND/OR DRAINAGE TO EXPOSED ROOF AND SURFACE AREAS, INCLUDING BASEMENT RETAINING WALLS, TO THE COMPLETE APPROVAL OF THE BUILDING SURVEYOR
64. UNLESS STATED OTHERWISE THE BUILDER SHALL;WHERE NECESSARY PROVIDES SUPPORT TO WALLS ADJACENT STRUCTURES BUILT ON THE BOUNDARY AND AVOID DAMAGE TO FOUNDATION TO THE SAME DUE TO EXCAVATION BENEATH FOOTINGS OR INGRESS IN WATER
65. UNLESS STATED OTHERWISE THE BUILDER SHALL; PROVIDE MECHANICAL VENTILATION TO ALL OFFICES AND SANITARY COMPARTMENTS VIA OUTLETS IN ACCORDANCE WITH AS1668 S.A.A. MECHANICAL VENTILATION AND AIR CONDITIONING CODE 76 AIR CHANGES P/H TO AMENITIES
66. IF A DOORWAY IN A FIREWALL IS FITTED WITH A SLIDING FIRE DOOR, WHICH IS OPEN, WHEN THE BUILDING IS IN USE - IT MUST BE HELD OPEN WITH AN ELECTROMAGNETIC DEVICE, WHICH WHEN DE-ACTIVATED SECONDS, AND MORE THAN 30 SECONDS, AFTER RELEASE; AND CONDITIONING CODE 6 AIR CHANGES P/H TO AMENITIES.  
- IN THE EVENT OF POWER FAILURE TO THE DOOR - THE DOOR MUST FAIL SAFE IN THE CLOSED POSITION IN ACCORDANCE WITH (I); AND  
- AN AUDIBLE WARNING DEVICE MUST BE LOCATED NEAR THE DOORWAY AND A RED FLASHING WARNING LIGHT OF ADEQUATE INTENSITY ON EACH SIDE OF THE DOORWAY MUST BE ACTIVATED IN ACCORDANCE WITH (B); AND  
- SIGNS MUST BE INSTALLED ON EACH SIDE OF THE DOORWAY LOCATED DIRECTLY OF THE OPENING STATING - WARNING - SLIDING FIRE DOOR - IN CAPITAL LETTERS NOT LESS THAT 50mm HIGH IN A COLOUR CONTRASTING WITH THE BACKGROUND.
67. SMOKE / HEAT DETECTION SYSTEM TO BE IN ACCORDANCE WITH AS1670.1, 2 & 3-2004
68. THE DOOR TO A FULLY ENCLOSED SANITARY COMPARTMENT MUST COMPLY WITH THE FOLLOWING IF THERE IS NOT A CLEAR SPACE OF 1.2m BETWEEN THE CLOSET PAN AND NEAREST PART OF DOORWAY;  
- OPEN OUTWARDS OR  
- SLIDE OR  
- BE READILY REMOVED FROM THE OUTSIDE OF THE SANITARY COMPARTMENT
69. COOLROOMS AND FREEZERS WILL BE PROVIDED WITH THE FOLLOWING IN ACCORDANCE WITH CLAUSE G1.2, BCA;  
- DOOR OPENINGS NOT LESS THAN 600mm IN WIDTH AND A CLEAR HEIGHT NOT LESS THAN 1500mm  
- DOORS WHICH ARE CAPABLE OF BEING OPENED BY HAND FROM INSIDE WITHOUT A KEY  
- INTERNAL LIGHTING CONTROLLED ONLY BY A SWITCH LOCATED ADJACENT TO THE INSIDE OF THE ENTRANCE DOORWAY  
- INDICATOR LAMP POSITIONED OUTSIDE WHICH IS ILLUMINATED WHEN THE INTERNAL LIGHTS ARE SWITCHED ON  
- AN ALARM DEVICE LOCATED OUTSIDE BUT CONTROLLABLE ONLY FROM WITHIN THE CHAMBER.

THIS WORK IS EXCLUSIVELY OWNED BY SDS DEVELOPMENTS PTY LTD AND CANNOT BE REPRODUCED OR COPIED, EITHER WHOLE OR IN PART, IN ANY FORM (GRAPHIC, ELECTRONIC OR MECHANICAL INCLUDING PHOTOCOPYING) WITHOUT THE WRITTEN PERMISSION OF SDS DEVELOPMENTS PTY LTD.  DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONFIRM ALL LEVELS AND DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF ANY WORKS. © COPYRIGHT 2015	CLIENT <b>ARPANSA</b>	DATE	REVISION	No.	PROJECT TITLE	DRAWING TITLE	ISSUE DATE	JOB No.	DRAWN	TOWN PLANNING
					STORAGE FACILITY	<b>GENERAL NOTES</b>	07.05.2018	201808	RW	SDS developments pty ltd PO BOX 1194 ST KILDA STH VIC 3182 p. 0421 139 013 w. skylinesdesignstudio.com.au
					PROJECT ADDRESS		SCALE	DRAWING No.	REVISION	
					619 LOWER PLENTY RD, YALLAMBIE, VIC 3085		1:100 (A3)	00 OF 06	A	

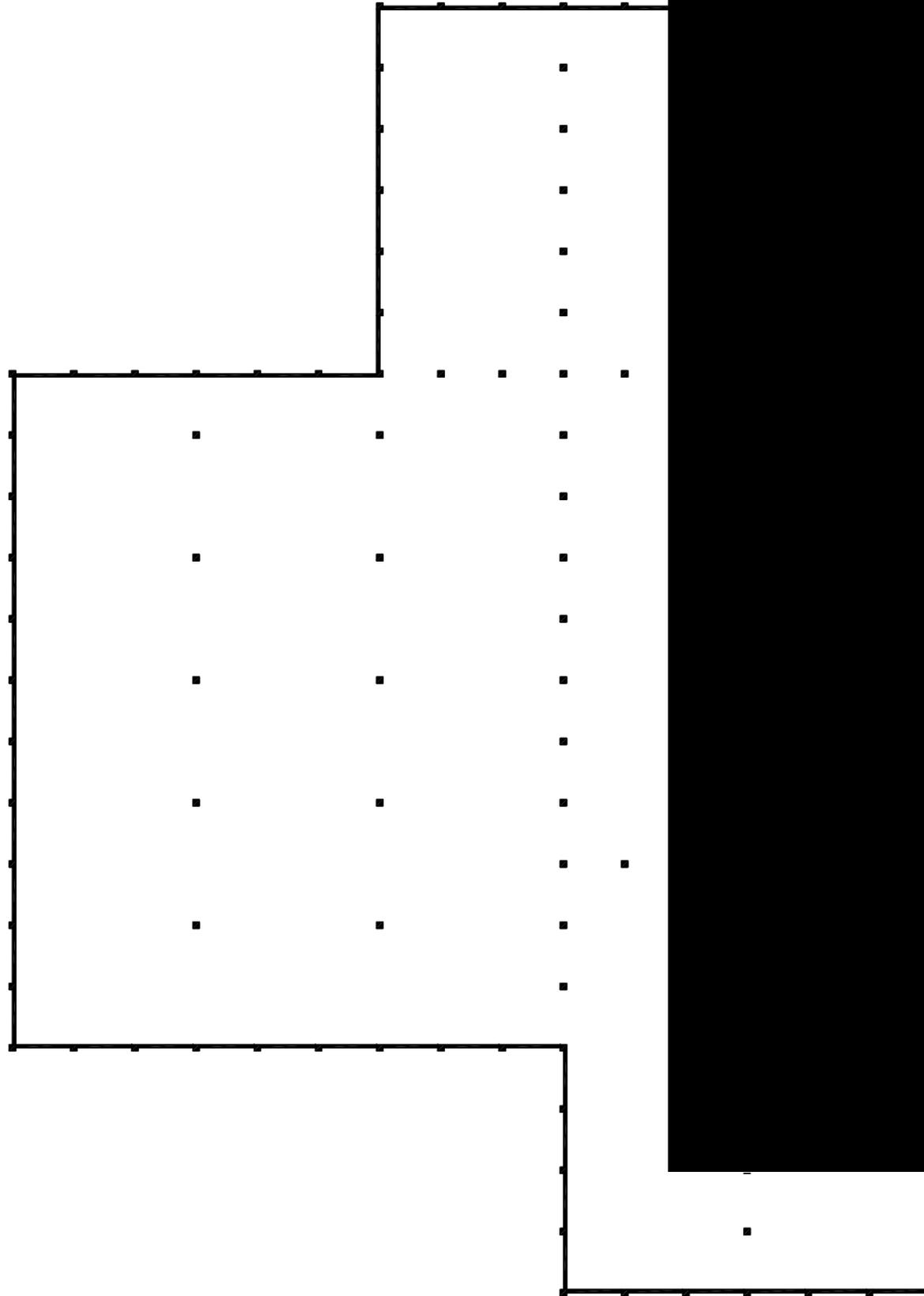


RELEASED BY ARPANSA UNDER FOI  
YALLAMBIE ROAD

THIS WORK IS EXCLUSIVELY OWNED BY SDS DEVELOPMENTS PTY LTD AND CANNOT BE REPRODUCED OR COPIED, EITHER WHOLE OR IN PART, IN ANY FORM (GRAPHIC, ELECTRONIC OR MECHANICAL INCLUDING PHOTOCOPYING) WITHOUT THE WRITTEN PERMISSION OF SDS DEVELOPMENTS PTY LTD.  
DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONFIRM ALL LEVELS AND DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF ANY WORKS.  
© COPYRIGHT 2015

CLIENT ARPANSA	DATE	REVISION	No.	PROJECT TITLE	DRAWING TITLE	ISSUE DATE	JOB No.	DRAWN	TOWN PLANNING
				STORAGE FACILITY	SITE PLAN	07.05.2018	201808	RW	SDS developments pty ltd
				PROJECT ADDRESS		SCALE	DRAWING No.	REVISION	PO BOX 1194 ST KILDA STH VIC 3182
				619 LOWER PLENTY RD, YALLAMBIE, VIC 3085		1:200 (A3)	01 OF 06	A	p. 0421 139 013 w. skylinedesignstudio.com.au

s 47E - operations

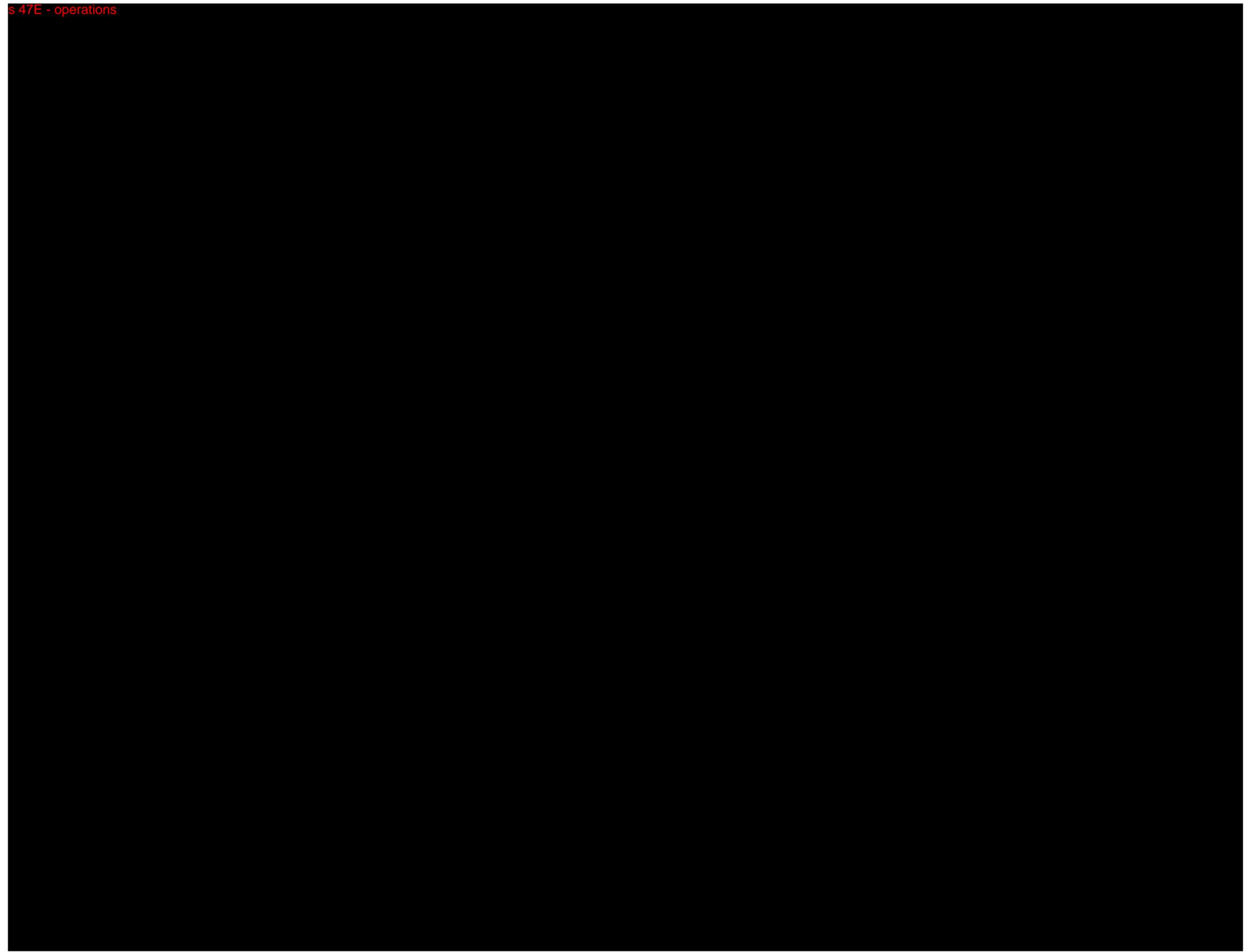


THIS WORK IS EXCLUSIVELY OWNED BY SDS DEVELOPMENTS PTY LTD AND CANNOT BE REPRODUCED OR COPIED, EITHER WHOLE OR IN PART, IN ANY FORM (GRAPHIC, ELECTRONIC OR MECHANICAL INCLUDING PHOTOCOPIING) WITHOUT THE WRITTEN PERMISSION OF SDS DEVELOPMENTS PTY LTD.

DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONFIRM ALL LEVELS AND DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF ANY WORKS.  
© COPYRIGHT 2015

CLIENT	DATE	REVISION	No.	PROJECT TITLE	DRAWING TITLE	ISSUE DATE	JOB No.	DRAWN	TOWN PLANNING
ARPANSA				STORAGE FACILITY	SITE PLAN - LOWER GROUND FLOOR	07.05.2018	201808	RW	SDS developments pty ltd
				PROJECT ADDRESS		SCALE	DRAWING No.	REVISION	PO BOX 1194 ST KILDA STH VIC 3182
				619 LOWER PLENTY RD, YALLAMBIE, VIC 3085		1:200 (A3)	02 OF 06	A	p. 0421 139 013 w. skylinestudio.com.au

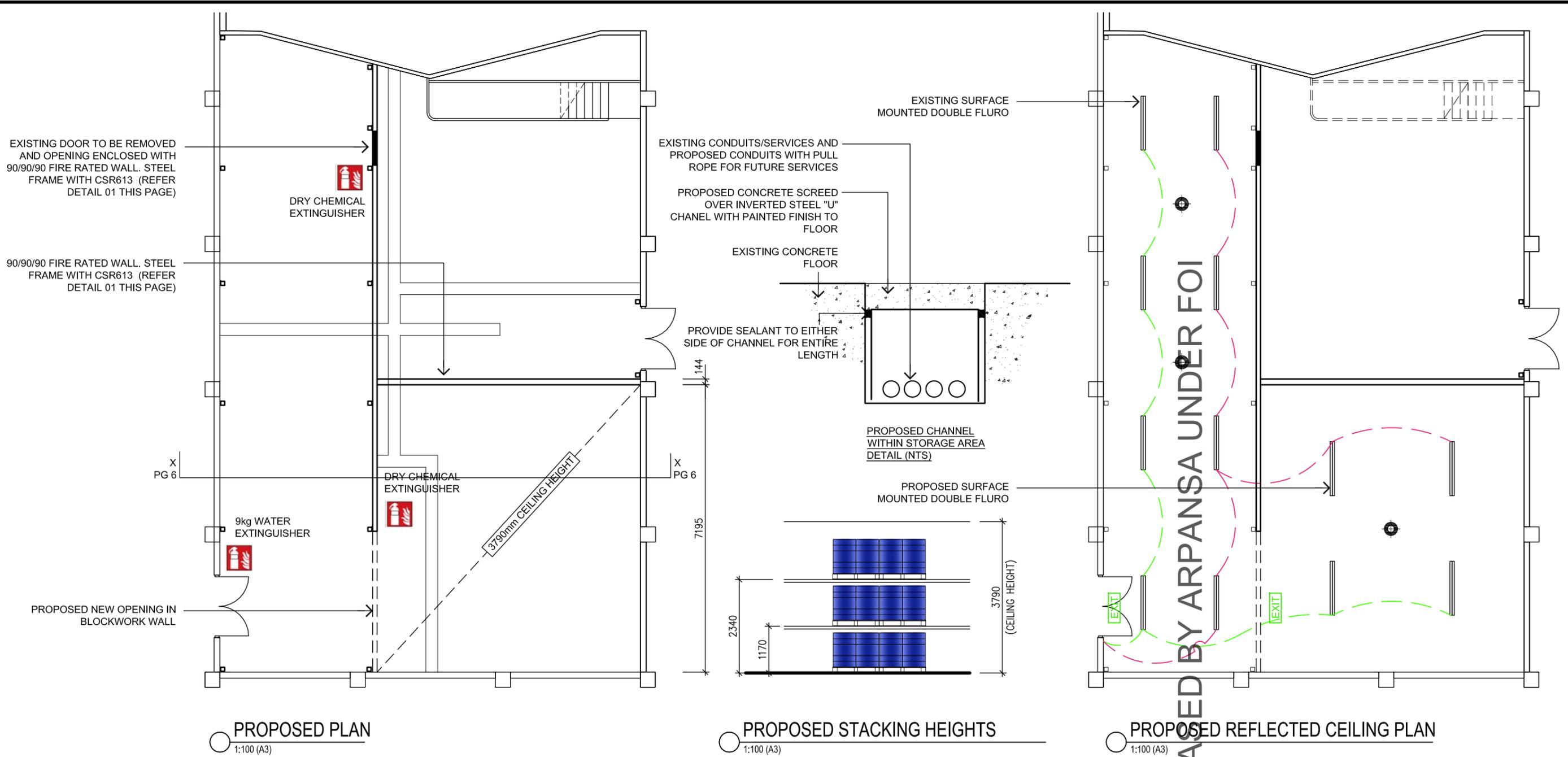
s 47E - operations



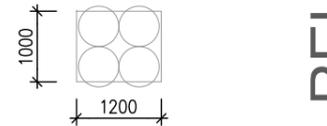
THIS WORK IS EXCLUSIVELY OWNED BY SDS DEVELOPMENTS PTY LTD AND CANNOT BE REPRODUCED OR COPIED, EITHER WHOLE OR IN PART, IN ANY FORM (GRAPHIC, ELECTRONIC OR MECHANICAL INCLUDING PHOTOCOPYING) WITHOUT THE WRITTEN PERMISSION OF SDS DEVELOPMENTS PTY LTD.  
DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONFIRM ALL LEVELS AND DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF ANY WORKS.  
© COPYRIGHT 2015

CLIENT	DATE	REVISION	No.	PROJECT TITLE	DRAWING TITLE	ISSUE DATE	JOB No.	DRAWN	TOWN PLANNING
						SCALE	DRAWING No.	REVISION	
ARPANSA				STORAGE FACILITY	SITE PLAN - GROUND FLOOR	07.05.2018	201808	RW	SDS developments pty ltd
				PROJECT ADDRESS		1:200 (A3)	03 OF 06	A	PO BOX 1194 ST KILDA STH VIC 3182
				619 LOWER PLENTY RD, YALLAMBIE, VIC 3085					p. 0421 139 013 w. skylinedesignstudio.com.au





FAR2357			<b>WALL THICKNESS mm</b>	103	116	128	144	202
- /120/120 90/90/90 FAR2357	<b>CSR 613</b> 	<i>BOTH SIDES (ANY ORDER)</i> • 1 x 9mm CeminSeal™ Wallboard. • 1 x 16mm GYPROCK FYRCHek plasterboard.	(a) Nil	45/38	47/41	48/42	49/43	51/45
			(b) 50 GW Partition 11kg	50/41	52/44	53/45	54/46	55/47
			(c) 75 GW Partition 11kg	-	54/46	54/46	55/47	56/48
			(d) TSB3/ASB3 Polyester	50/43	51/45	52/46	53/47	54/48
			(e) 60 Soundscreen™ 1.6	-	53/44	54/45	55/46	56/47
	<b>CSR 080</b> 		<b>WALL THICKNESS mm</b>	101	114	126	142	200
			(a) Nil	43/36	45/39	46/40	47/41	49/43



PROPOSED PALLET DIMENSIONS

NOTE: PRINT IN COLOUR

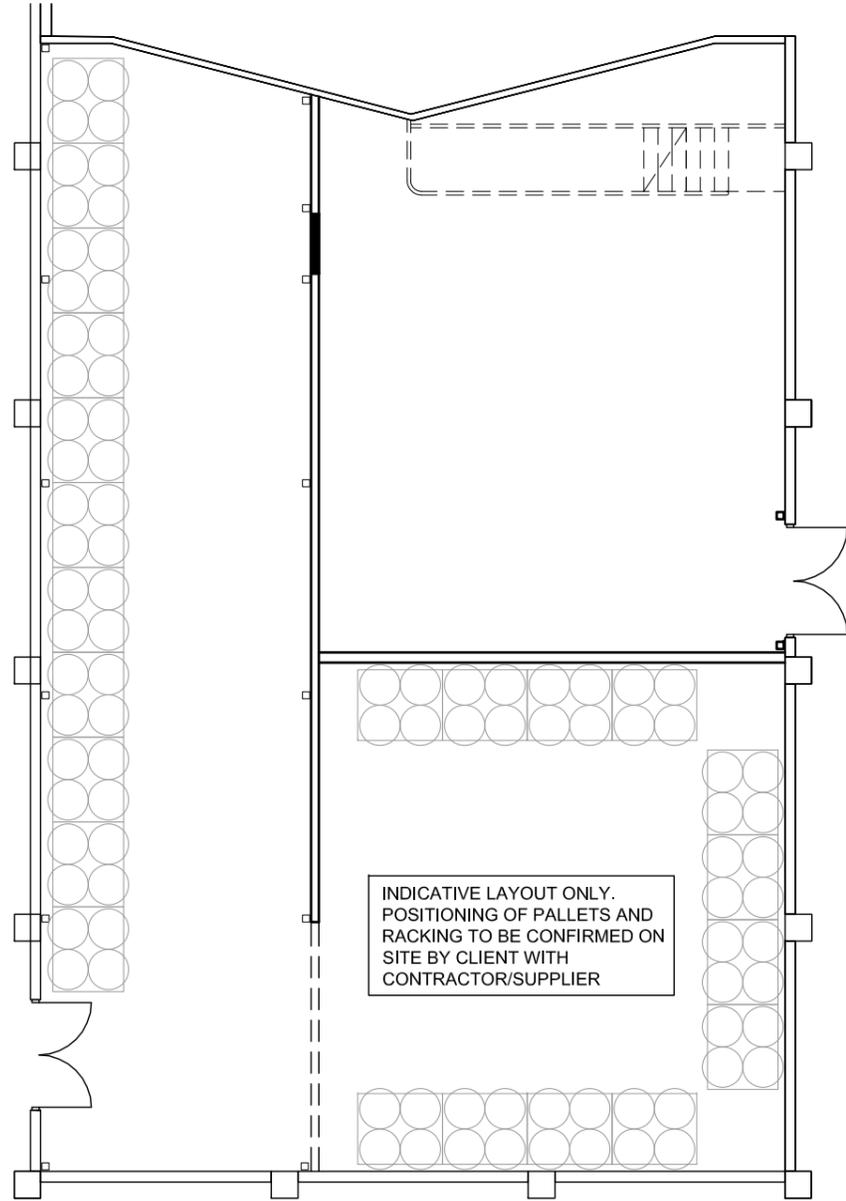
— — — — — CIRCUIT 1 - TIME DELAY 45 MINUTES  
— — — — — CIRCUIT 2 0 TIME DELAY 30 MINUTES

KEY OVERRIDE TO BOTH CIRCUITS

**LEGEND**

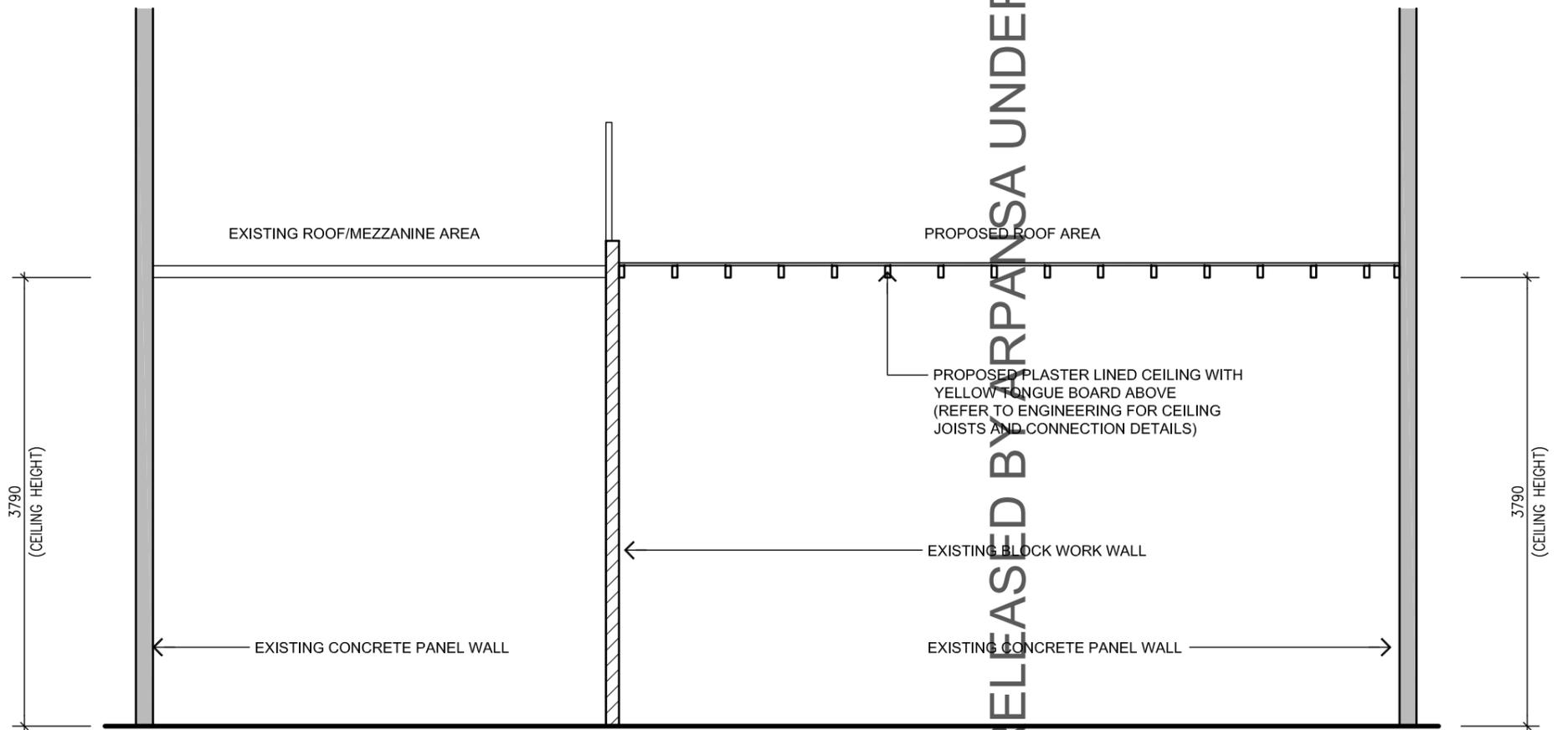
- 1No. 9kg WATER EXTINGUISHER
- 2No. DRY CHEMICAL EXTINGUISHER
- EMERGENCY LIGHTING
- EXIT SIGNAGE

THIS WORK IS EXCLUSIVELY OWNED BY SDS DEVELOPMENTS PTY LTD AND CANNOT BE REPRODUCED OR COPIED, EITHER WHOLE OR IN PART, IN ANY FORM (GRAPHIC, ELECTRONIC OR MECHANICAL INCLUDING PHOTOCOPYING) WITHOUT THE WRITTEN PERMISSION OF SDS DEVELOPMENTS PTY LTD.  DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONFIRM ALL LEVELS AND DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF ANY WORKS. © COPYRIGHT 2015	CLIENT	DATE	REVISION	No.	PROJECT TITLE	DRAWING TITLE	ISSUE DATE	JOB No.	DRAWN	TOWN PLANNING
	ARPANSA				STORAGE FACILITY	PROPOSED WORKS	07.05.2018	201808	RW	SDS developments pty ltd PO BOX 1194 ST KILDA STH VIC 3182 p. 0421 139 013 w. skyinedesignstudio.com.au
					PROJECT ADDRESS		SCALE	DRAWING No.	REVISION	
					619 LOWER PLENTY RD, YALLAMBIE, VIC 3085		1:100 (A3) 1:50 (A3)	05 06	OF A	



**PROPOSED PALLET LAYOUT PLAN**

1:100 (A3)



**SECTION X:X**

1:50 (A3)

RELEASED BY ARPANSA UNDER FOI

THIS WORK IS EXCLUSIVELY OWNED BY SDS DEVELOPMENTS PTY LTD AND CANNOT BE REPRODUCED OR COPIED, EITHER WHOLE OR IN PART, IN ANY FORM (GRAPHIC, ELECTRONIC OR MECHANICAL INCLUDING PHOTOCOPYING) WITHOUT THE WRITTEN PERMISSION OF SDS DEVELOPMENTS PTY LTD.  
DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONFIRM ALL LEVELS AND DIMENSIONS ON SITE BEFORE THE COMMENCEMENT OF ANY WORKS.  
© COPYRIGHT 2015

CLIENT	ARPANSA
--------	---------

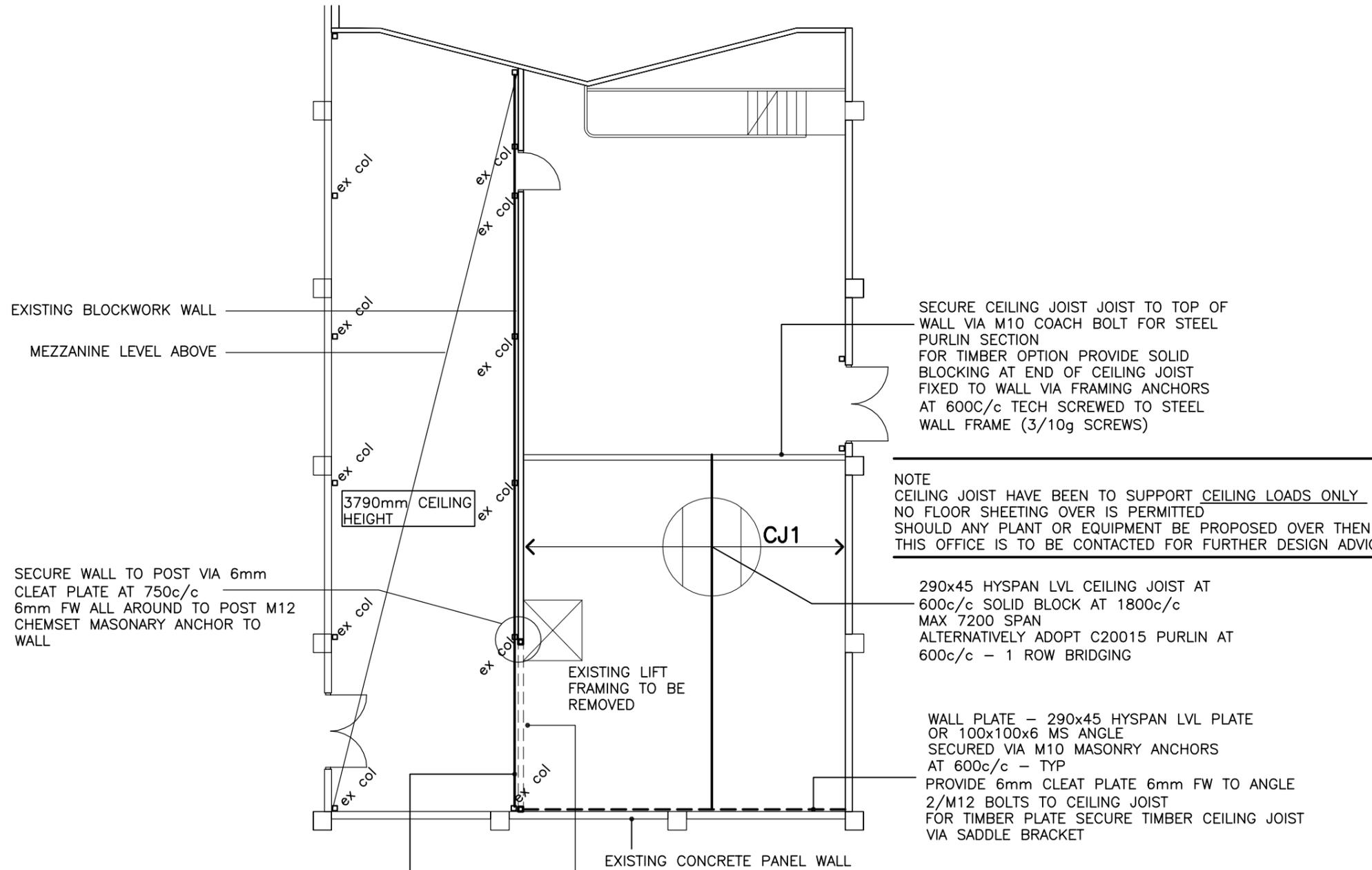
DATE	REVISION	No.
-	-	-

PROJECT TITLE	STORAGE FACILITY
PROJECT ADDRESS	619 LOWER PLENTY RD, YALLAMBIE, VIC 3085

DRAWING TITLE	PROPOSED WORKS
---------------	----------------

ISSUE DATE	07.05.2018
JOB No.	201808
SCALE	AS NOTED
DRAWN	RW
DRAWING No.	06
REVISION	06
OF	06
REVISION	A

TOWN PLANNING	SDS developments pty ltd
PO BOX 1194	ST KILDA 5TH VIC 3182
p. 0421 139 013	w. sky@nedesignstudio.com.au



SECURE CEILING JOIST TO TOP OF WALL VIA M10 COACH BOLT FOR STEEL PURLIN SECTION FOR TIMBER OPTION PROVIDE SOLID BLOCKING AT END OF CEILING JOIST FIXED TO WALL VIA FRAMING ANCHORS AT 600c/c TECH SCREWED TO STEEL WALL FRAME (3/10g SCREWS)

NOTE  
 CEILING JOIST HAVE BEEN TO SUPPORT CEILING LOADS ONLY  
 NO FLOOR SHEETING OVER IS PERMITTED  
 SHOULD ANY PLANT OR EQUIPMENT BE PROPOSED OVER THEN THIS OFFICE IS TO BE CONTACTED FOR FURTHER DESIGN ADVICE

290x45 HYSpan LVL CEILING JOIST AT 600c/c  
 600c/c SOLID BLOCK AT 1800c/c  
 MAX 7200 SPAN  
 ALTERNATIVELY ADOPT C20015 PURLIN AT 600c/c - 1 ROW BRIDGING

WALL PLATE - 290x45 HYSpan LVL PLATE OR 100x100x6 MS ANGLE  
 SECURED VIA M10 MASONRY ANCHORS AT 600c/c - TYP  
 PROVIDE 6mm CLEAT PLATE 6mm FW TO ANGLE 2/M12 BOLTS TO CEILING JOIST FOR TIMBER PLATE SECURE TIMBER CEILING JOIST VIA SADDLE BRACKET

SECURE WALL TO POST VIA 6mm CLEAT PLATE AT 750c/c  
 6mm FW ALL AROUND TO POST M12 CHEMSET MASONRY ANCHOR TO WALL

PROPOSED SECTION OF BLOCKWORK WALL, EXISTING DOORS AND COLUMNS EACH SIDE OF DOOR TO BE REMOVED TO UNDERSIDE OF THE EXISTING MEZZANINE

NOTE  
 PRIOR TO CONSTRUCTION  
 EXISTING FLOOR BEAM TO BE CONFIRMED AS CONTINUOUS OVER NEW OPENING  
 BEAM SIZE TO BE REPORTED BACK TO THIS OFFICE FOR CONFIRMATION OF STRUCTURAL ADEQUACY PRIOR TO REMOVAL OF DOOR POSTS

**STRUCTURAL PLAN**

**GENERAL**  
 1. These drawings to be read in conjunction with all architectural and other consultants drawings and with such other written instructions as may be issued during the course of the contract. Any discrepancy shall be referred to the engineer or Architect before proceeding with the work.  
 2. Material and workmanship are to be obtained from the Architects drawing or from site. Engineers drawings must not be scaled.  
 3. During construction the Contractor shall be responsible for maintaining the structure in a stable condition and ensuring no part shall be overstressed under construction activities.

**STRUCTURAL STEEL**  
 1. All steelwork shall be carried out in accordance with the AS4100-1990 Steel Structures Code.  
 2. Connections shall be provided to carry the reactions shown unless otherwise noted.  
 3. Welds to be 6mm continuous fillet laid down with approved covered electrode in accordance with AS 1554 Welding Code. Bolts 16mm diam. black in 2mm clearance holes. Gusset plates 8mm unless otherwise noted.  
 4. All cleats and drillings for fixing of timber members, etc to be provided by the fabricator.  
 5. Camber to structural steel roof beams, trusses, etc, to be 3mm for every 1000mm of span unless otherwise noted.  
 6. All welding to be SP (Structural Purpose) grade, refer AS4100.

**STRUCTURAL TIMBER**  
 1. All structural timber shall conform to the requirements of AS1720 Timber Engineering Code and AS1684 Light Timber Framing Code.  
 2. Provide double studs (2/90x45 F5) to ends of all heavily loaded beams and lintols.  
 3. All beams built up from two or more members to be stitch bolted.  
 4. Provide double joists below all parallel load bearing walls.

RELEASED BY ARCHITECT UNDER AS4100

**PROPOSED OPENING  
 619 LOWER PLENTY RD  
 YARRAVILLE**

<b>JOHN KOTOWSKYJ &amp; ASSOC          CONSULTING ENGINEERS</b>  SUITE 4 2ND FL 902 MT ALEXANDER RD ESSENDON 3040 TEL 9370 0511 FAX 9375 4463 EMAIL johnk@netsol.net.au	DATE	21/05/18
	REV	A
	SHEET	S1
	FILE	18036

**FAN SCHEDULE**

Designation	GEF-1	FAF-1
Location	CEILING SPACE	CEILING SPACE
Area Served:	STORAGE AREA	STORAGE AREA
Make:	CFM	CFM
Model:	MUA305-4E - 30 DEG	MUA305-4E-20 DEG
Type	Axial - Duct Mounted	Axial - Duct Mounted
Air Quantity	600	480
Estim. Static (Pa)	80	80
Mounting:	Duct Mounted	Duct Mounted
SPEED (RPM)	1440	1440
Motor (kW)	0.18	0.18
FLA (Amp)	0.8	0.8
Phase	1 PH	1 PH
COMMENT	POWERED FROM LOCAL ON/OFF SWITCH	INTERLOCKED WITH GEF-1

**FILTER EQUIPMENT - SCHEDULE**

FILTER No.	F-FAF - 1
MAKE	AIREPURE
TYPE/MEDIA	AIREPAK FILTER MULTI-POCKET/F5
W [mm]	610 mm
H [mm]	610 mm
D [mm]	380 mm
No Off	1
Total Air	480 l/s
Initial	40 Pa
Final	60 Pa

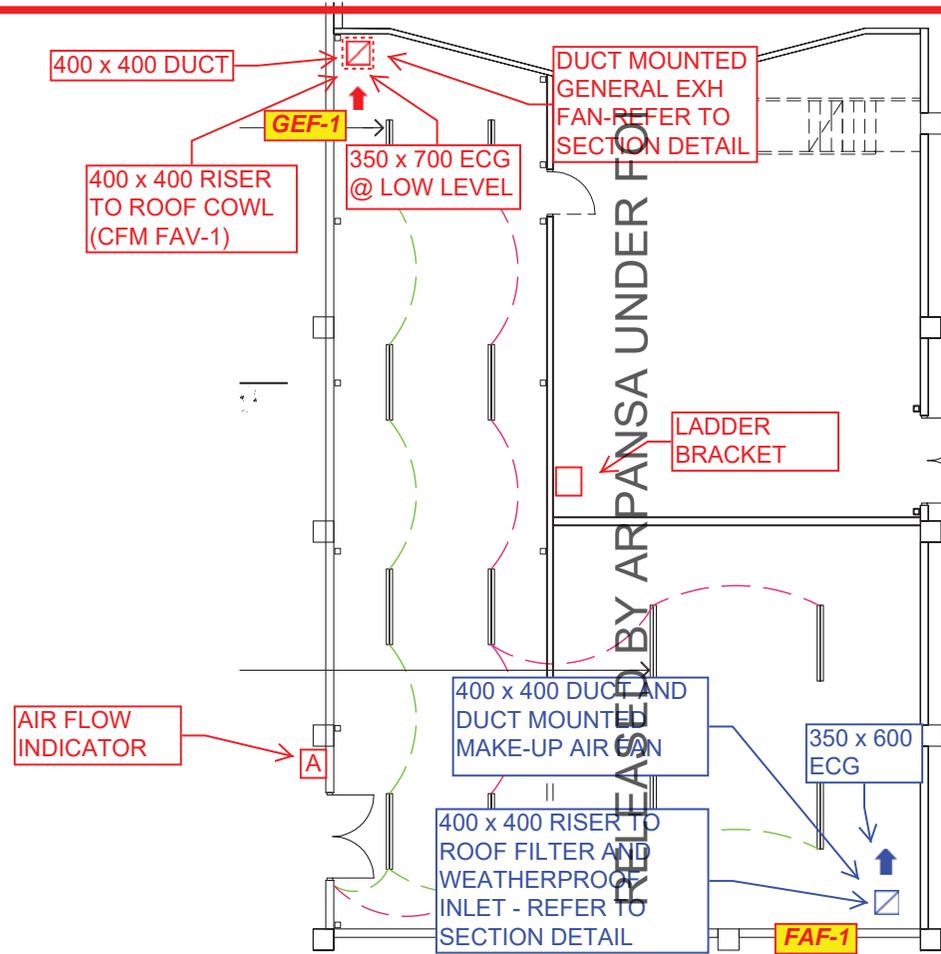
NOTE: STATIC DIFFERENTIAL DEVICE ATTACHED TO FRESH AIR FILTER AND CONNECTED TO WALL MOUNTED FLOW INDICATOR DEVICE.

BUILDING SERVICES  
ENGINEERING AND  
DESIGN  
1310 Portarlington Road  
Curlweiss 3222  
0423 279 170

ARPANSA  
619 LOWER  
PLENTY ROAD  
YALLAMBIE 3085

SHEET TITLE:  
STORAGE FACILITY  
VENTILATION  
SERVICES

June 2018  
Scale: NTS  
Drawing No.  
SKM-1\_R1



400 x 400 RISER  
TO ROOF COWL  
(CFM FAV-1)

EXTERNAL ROOF

WEATHERPROOF  
45° CHAMFER C/W  
BIRWIRE MESH

600 x 600 DEEP  
FILTER

GEF-1

DUCT MOUNTED  
GENERAL EXH  
FAN

DUCT MOUNTED  
MAKE-UP AIR  
FAN

FAF-1

400 x 400

400 x 400

350 x 700 ECG

400 x 550  
ECG

INTERNAL ROOF/  
MEZZANINE  
FLOOR

RELEASED BY ARPANSA UNDER FOI

BUILDING SERVICES  
ENGINEERING AND  
DESIGN  
1310 Portarlington Road  
Curlewis 3222  
0423 279 170

ARPANSA  
619 LOWER  
PLENTY ROAD  
YALLAMBIE 3085

SHEET TITLE:  
STORAGE FACILITY  
SECTION DETAIL

June 2018  
Scale: NTS  
Drawing No.  
SKM-2