

Site Report No. 08 / 26

235 Mill Road, Yabulu. Lot 3 on RP 743037

INTRODUCTION

E.G.Clark (Designer) has been engaged by Wastewater Works to prepare an Onsite Sewerage Assessment (OSA) to assess the suitability of installing a wastewater treatment system to serve the proposed Wedding Venue at 235 Mill Road, Yabulu.

The property is located in the local government area of Townsville. This OSA addresses the requirements under AS/NZS 1547:2012 for the proposed community ablutions and camp kitchen on this site.

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Under sections 440ZG of the Environmental Protection Act, which relates to depositing prescribed contaminants in waters, it is an offence to deposit or release sewage and sewage residues, whether treated or untreated, and any other matter containing faecal coliforms or faecal streptococci, including for example:

- Waste water pumped out from a septic tank, or
 - Solid or liquid waste from an On-site Sewerage facility;
- into waters, or a roadside gutter or stormwater drainage, or at another place, and in a way, so that the contaminant could reasonably be expected to wash, blow, fall or otherwise move into waters, a roadside gutter or stormwater drainage.

DESIGN CRITERIA

The design of this On-Site Wastewater system has been based on the following information.

1. Queensland Plumbing & Wastewater code.
2. A.S/NZS 1547: 2012 Onsite Domestic Wastewater Management.
3. Local Authorities policy on On-Site Wastewater Disposal systems.
4. Site Evaluation
5. Soil Test
6. Site plan of the proposed Wedding Venue.

Onsite Evaluation

Intended water supply source:- Bore.

Boundaries:- Clearly Identified.

Topography:- The designated Land Application area has nil fall. As per the Site Plan, the land application area is located in an area not prone to flooding.

DESIGN PARAMETERS.

1. Number of Bedrooms - nil
2. Number of people - 100 @ 30 litres / person
3. Treatment type – Secondary
4. Manufacture - Aussie Treat Wastewater Treatment System
5. Daily flow rate per person – 30L per person day (as per A.S. 1547 2012.)
6. Category Soil – 5 Light Clay – Moderately structured
7. DIR - 3 mm per day
8. Hydraulic Conductivity - 0.06 – 0.12
9. Soil Permeability- 0.06 – 0.12
10. Land Application Area - 4 x 12m x 21m (1000 sq. M)

CERTIFIED DESIGN.

1. Treatment Type – Fuji Clean Aeration Treatment Tank
2. Effluent Type – Secondary advanced
3. Disposal type – Sub – Surface drip irrigation
4. Disposal area – 1000m

SETBACK DISTANCES.

1. Property Boundary – 2m
2. Building - 2m
3. Watercourse - 10m
4. Recreational area - 10m

Notes

1. Signage displayed at every corner and minimum 10 metres apart.
2. All fittings and pipework be of approved material as per AS 1547.
3. All work carried out in accordance with AS 1547.
4. All Setbacks as per Qld Wastewater Code
5. Filter system located on the outside of the AWTS as per manufacturer's specifications.
6. Subsurface Irrigation Bed constructed as per Cross section.
7. Outlet pipework in Lilac class 12 polyethylene from AWTS to disposal area to be buried at a minimum of 300mm.

Land application area calculation

As per AS/NZS 1547:2000 section L4.2 sizing:- Area =Daily Flow Rate / DIR

Subsurface Trench Dimensions

Q = design daily flow in L / day	3000 L / day - (100 x 30L / Person / day)
DIR = Design Load Rating mm / Day	3mm / Day
W = Width of Dispersal Area (M) x 4	21 M
L = Length of Dispersal Area (M) x 4	12 M
Total Dispersal Area (Sq M)	1000 Sq. Metres min.

It is recommended that:

- Stormwater is diverted away from the land disposal area.
- The land disposal area is planted with suitable species where no established
- Water saving 3/6 Litre flush toilet cisterns installed to reduce excess water being wasted.

Treatment Plant Specifications

Aussie Treat AWTS – Model 20

4000 Litre Septic Tank

5000 Litre Balancing Tank, High Level Alarm & air lift pump

Plumbing contractor installing this Onsite Wastewater System Signature

Plumbing Contractor: QBCC No:

Signature:

(Note: Please sign and forward to northsidemulch@gmail.com before commencing work.)

Summary and recommendations

This report is based on the information provided by the client. If any aspect of the site preparation or proposed construction changes from the original design, the Designer shall be notified so that any amendments can be made. Should soil or environmental conditions encountered on the site differ significantly from those indicated from the soil report, the designer must be notified before proceeding, as modifications to the design may be required.



Design Certificate for On-Site Sewerage Facilities

Plumbing and Drainage Act 2018

Location and property description

Residential address: 235 – 353 Mill Road,

Suburb: Yabulu State: Qld Post code: 4819

Property description: Lot 3 on RP 743037

Design particulars:

Number of bedrooms in the Dwelling/Units = Nil

Number of equivalent persons = 100

Maximum daily flow for entire facility = 3000 Litres / Day

Soil category and/or soil texture = 5

Design loading (DLR) 3

Design irrigation rate (DIR)

With my designer's report/design I have included:

- a) 1 x copy of the floor plan (with bedrooms clearly indicated)
- b) Any other relevant information as listed in the Registered Designer's Report/Design Checklist.

Applicant declaration

I, Edward George Clark, being a registered on-site sewerage designer, do hereby certify that:

a) The design of the on-site sewerage facility/land application area for the above property has been designed in accordance with:

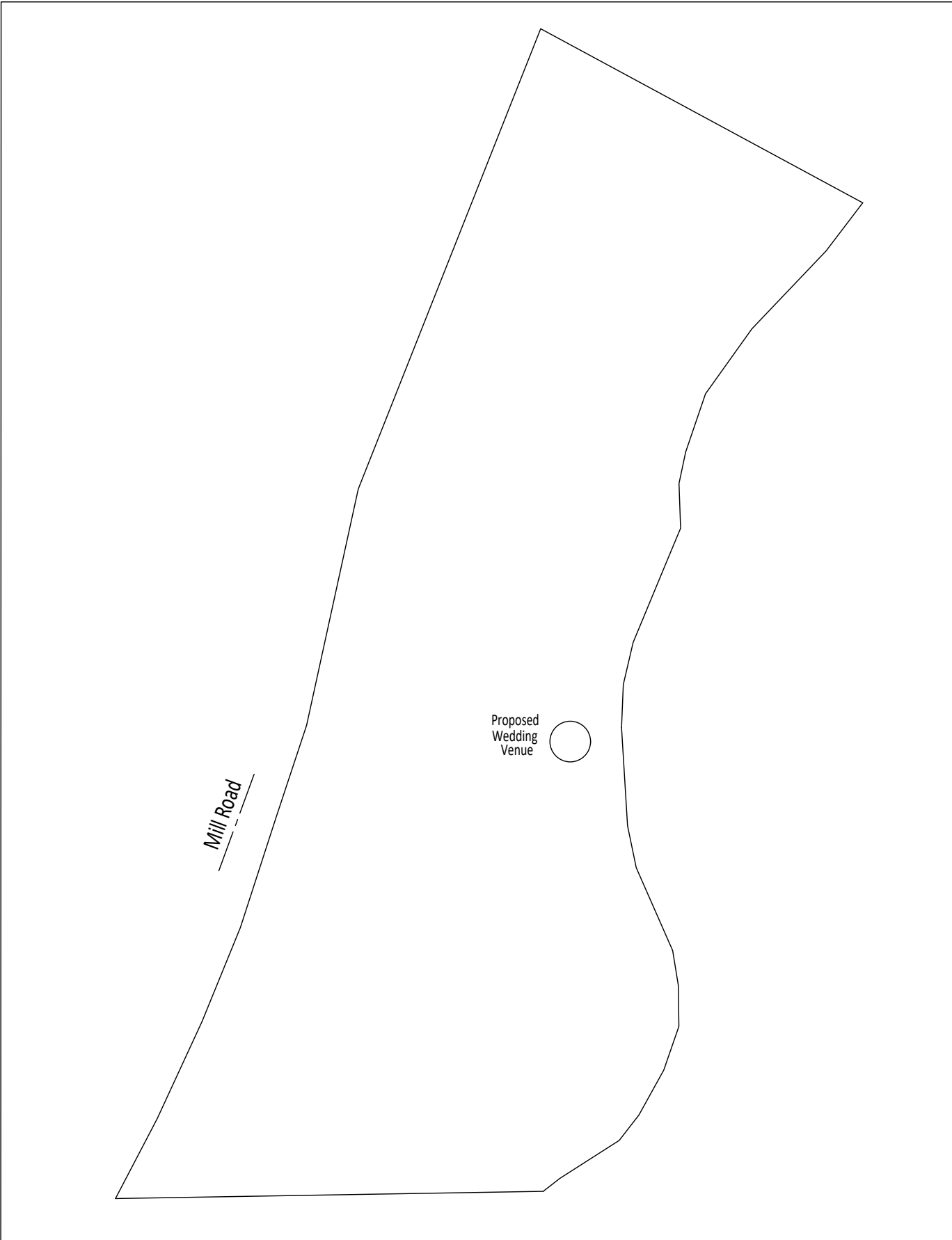
- » the Plumbing and Drainage Act 2018, and associated Regulations
- » the Queensland Plumbing and Wastewater Code
- » relevant Australian/New Zealand Standards
- » SC6.4.3.10 On-site sewerage facilities (Townsville City Plan)
- » any additional requirements of council; and

b) I am familiar with the regulatory requirements that are relevant for this design; and

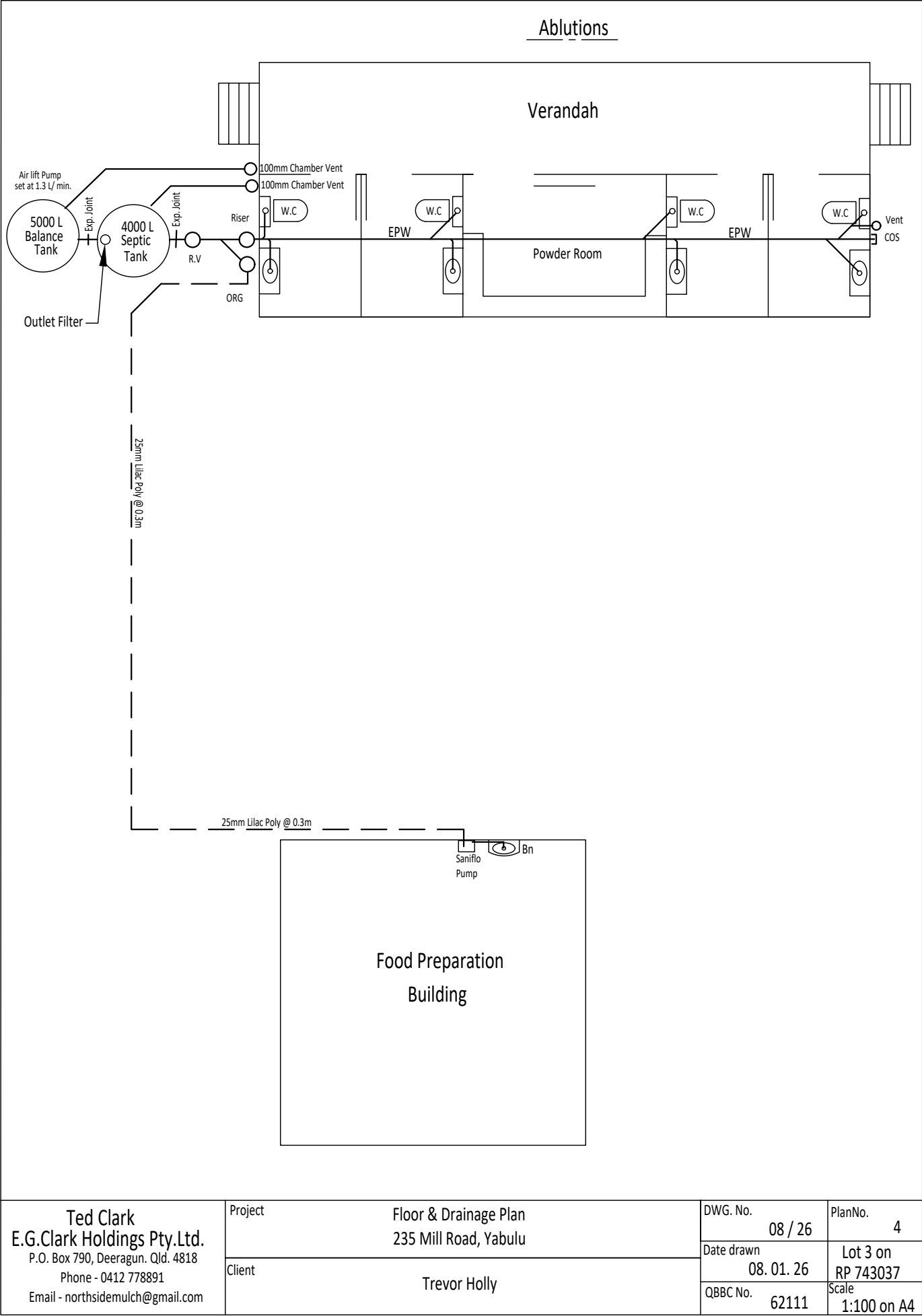
c) I accept professional liability for the interpretation of, conclusions drawn from and recommendations made as a result of this design; and

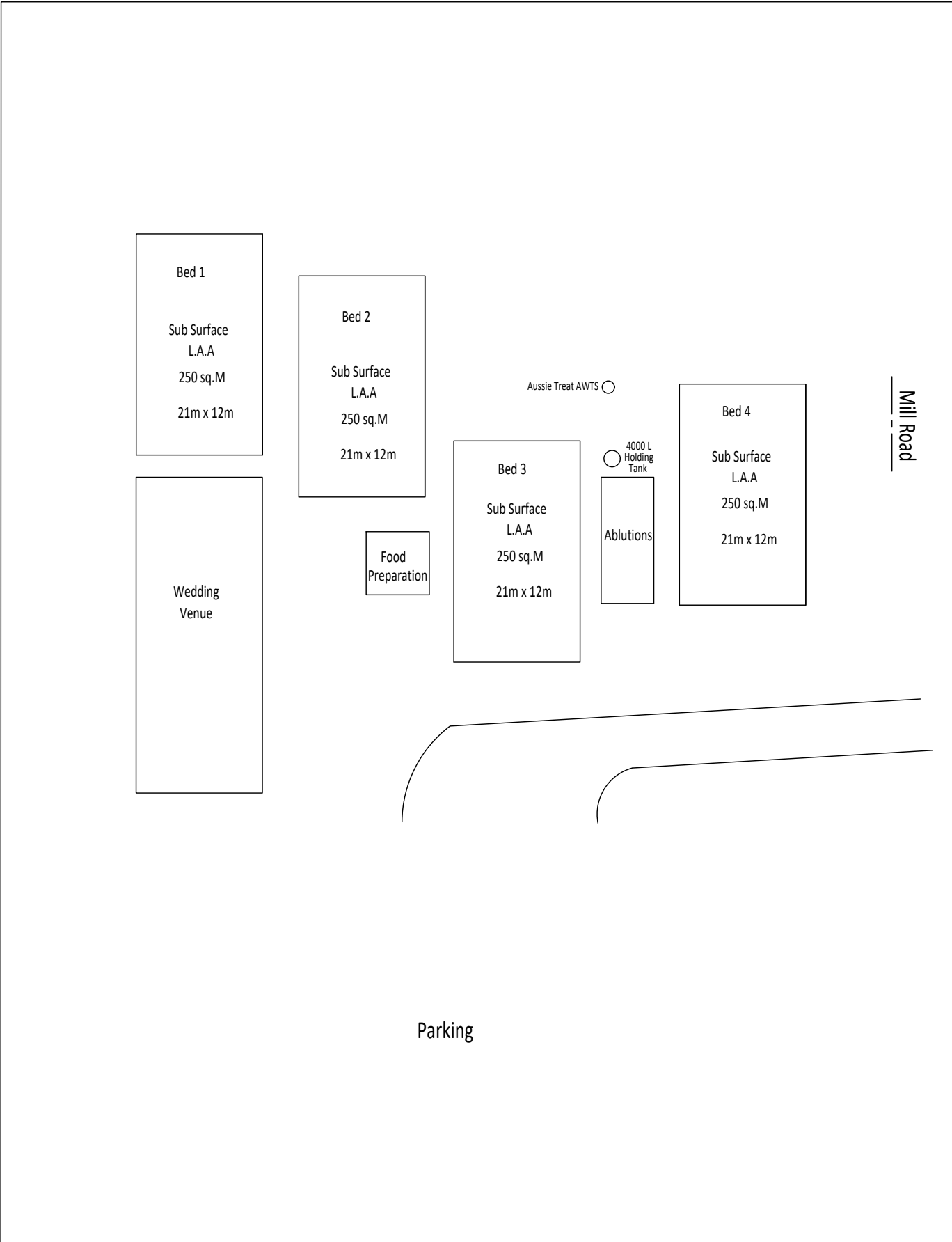
d) The on-site sewerage facility/land application area (as designed) is appropriate for the allotment.

Signature Ted Clark Date: 08. 01. 26

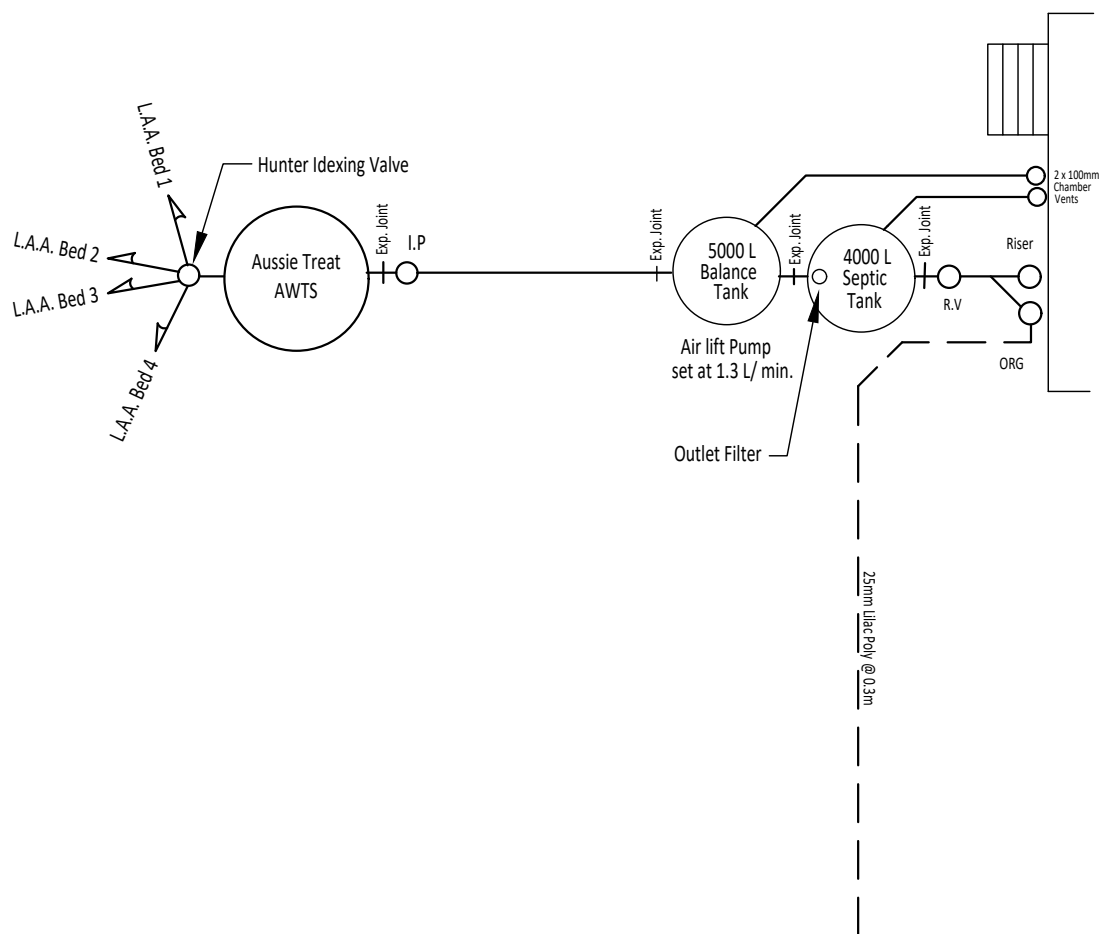


Ted Clark E.G.Clark Holdings Pty.Ltd. P.O. Box 790, Deeragun. Qld. 4818 Phone - 0412 778891 Email - northsidemulch@gmail.com	Project	Site Plan 235 Mill Road, Yabulu		Project No.	08 / 26	1
	Client	Trevor Holly		Date drawn	08. 01. 26	Lot 3 on RP 743037
				QBBC No.	62111	Scale 1:5000 on A4





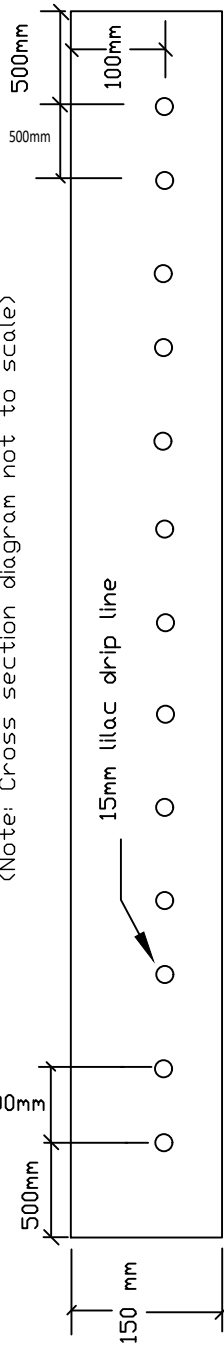
Ted Clark E.G.Clark Holdings Pty.Ltd. P.O. Box 790, Deeragun. Qld. 4818 Phone - 0412 778891 Email - northsidemulch@gmail.com	Project	Partial Site Plan 235 Mill Road, Yabulu		Project No.	08 / 26	2
	Client	Trevor Holly		Date drawn	08. 01. 26	Lot 3 on RP 743037
				QBBC No.	62111	Scale 1:500 on A4



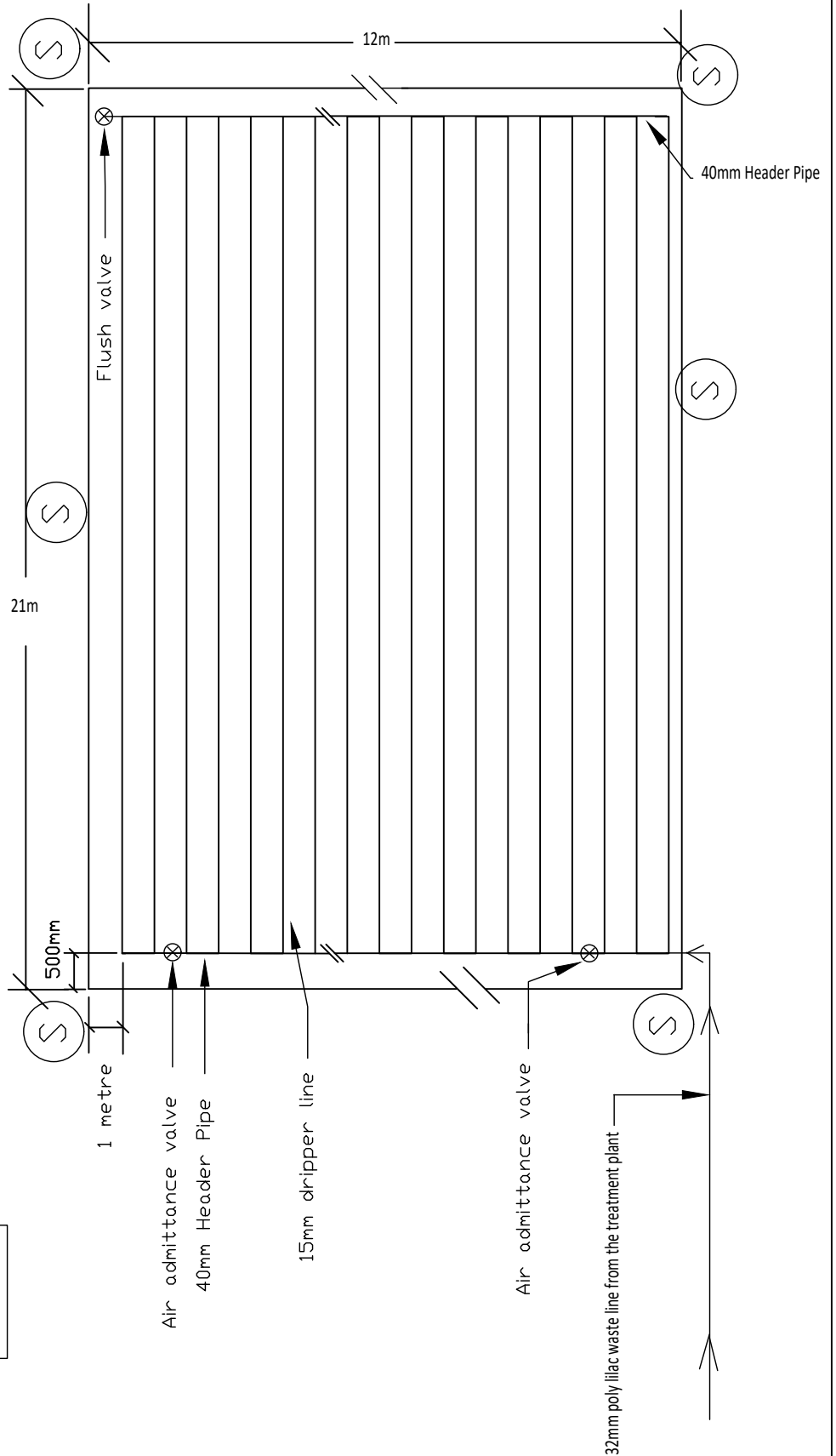
Ted Clark E.G.Clark Holdings Pty.Ltd. P.O. Box 790, Deeragun. Qld. 4818 Phone - 0412 778891 Email - northsidemulch@gmail.com	Project	Onsite Layout of the wastewater System 235 Mill Road, Yabulu		DWG. No.	08 / 26	PlanNo.	5
	Client	Trevor Holly		Date drawn	08. 01. 26	Lot 3 on RP 743037	
				QBBC No.	62111	Scale 1:100 on A4	

Cross section of Sub - Surface Irrigation

(Note: Cross section diagram not to scale)

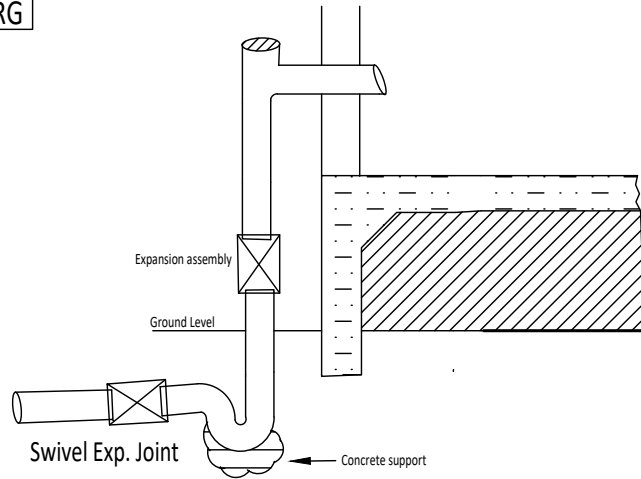


S - Signage
Maximum spacing 10 metres
Sign located also at each corner

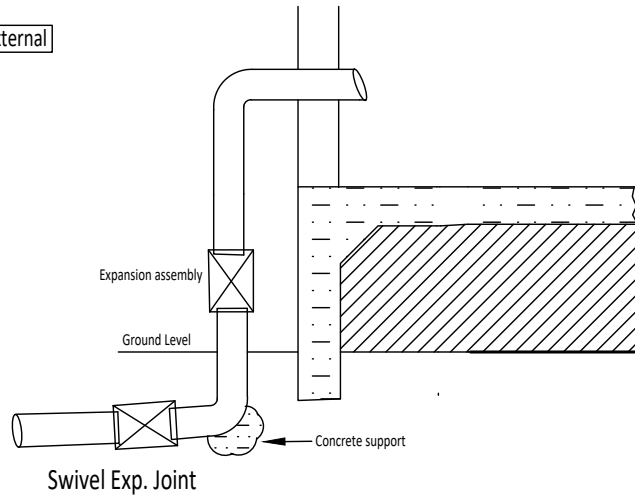


Ted Clark E.G.Clark Holdings Pty. Ltd P.O. Box 790, Deeragun. Qld 4819 Phone - 0412 778891 Email - northsidemulch@gmail.com	Project	Land Application Area - Subsurface Layout 235 Mill Road, Yabulu		Project No.	08 / 26	Plan No.
	Client	Trevor Holly		Date	08. 01. 26	Lot 3 on RP 743037
				QBCC No.	62111	Scale 1: 100 on A4

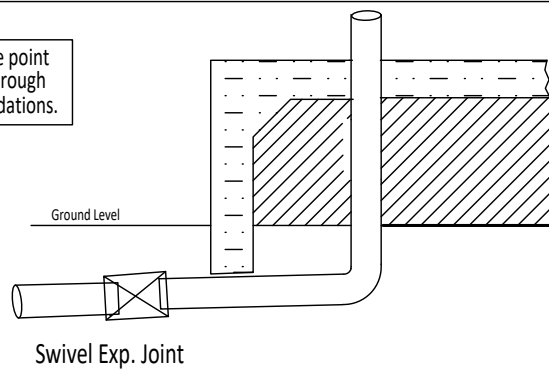
ORG



Riser - External



Exist. Drainage point
penetrating through
or under foundations.



Ted Clark
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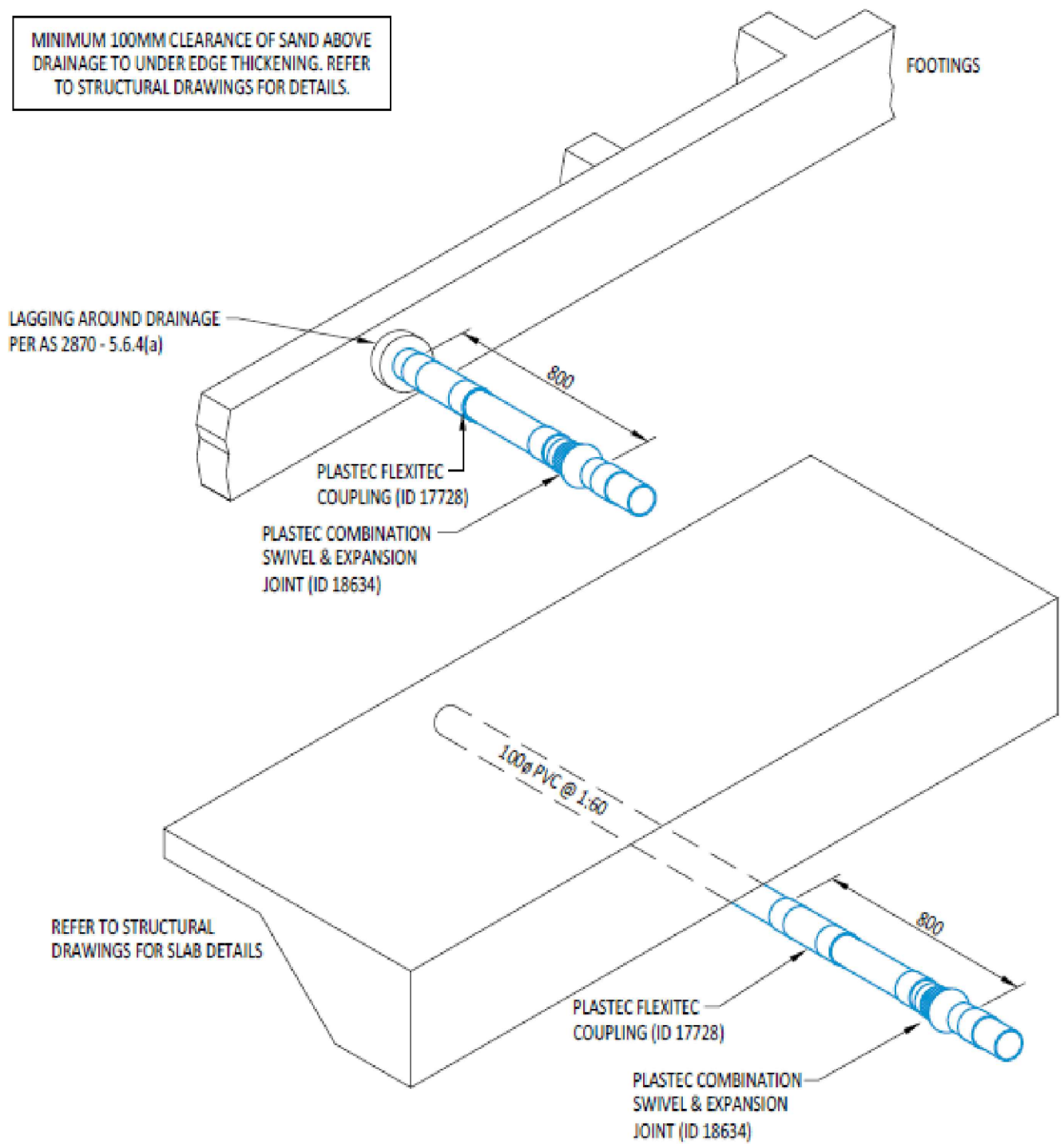
Project Articulation diagrams of Drainage
 235 Mill Road, Yabulu

Client Trevor Holly

DWG. No. 08 / 26
 Date drawn 08. 01. 26
 QBBC No. 62111

PlanNo. 5
 Lot 3 on
 RP 743037
 Scale

MINIMUM 100MM CLEARANCE OF SAND ABOVE DRAINAGE TO UNDER EDGE THICKENING. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.



FLEXIBLE CONNECTIONS EXITING SLAB DETAIL (PVC)

N.T.S.

Ted Clark E.G.Clark Holdings Pty.Ltd. P.O. Box 790, Deeragun. Qld. 4818 Phone - 0412 778891 Email - northsidemulch@gmail.com	Project	Articulation diagrams of Drainage as per A.S 3500 235 Mill Road, Yabulu	DWG. No. 08 / 26	PlanNo. 5
	Client	Trevor Holly	Date drawn 08. 01. 26	Lot 3 on RP 743037
			QBBC No. 62111	Scale