#### SEWERAGE

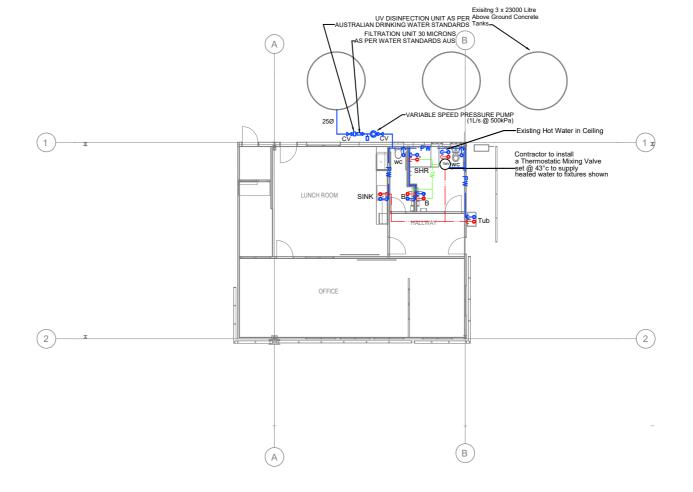
- All sewerage shall comply with australian standard AS3500, BCA, and other authorities or regulations having jurisdiction over the installation. Make all necessary applications and pay all associated fees and charges.
- Co-ordinate with other services contractors before commencing to determine the correct construction sequence.
- 3. Confirm the location and level of the nominated outlet before laying of any drains.
- Pipework shall be DN100mm unless noted otherwise. All pipework shall be equal to or greater than the nominated outlet size of the fixture, appliance or tundish.
- 5. Waste pipes of DN100 shall be graded at 1:60 and all other pipework shall be graded
- Where pipework penetrates fire rated walls, ceilings or floors, a fire stop collar shall be installed. All work shall be strictly installed to the manufacturer's recommendations. Refer to the specification for further details.
- All pipework shall be adequately supported. Support system shall be designed to safely
  and completely support the weight of pipework and associated work. Support system
  shall be installed immediately on pipe installation and allowance for expansion provided.
- Pipework shall be constructed of Unplasticized Polyvinyl Chloride (UPVC), U.N.O. Pipework receiving hot discharges shall be constructed of brass or High Density Polyethylene (HDPE).
- All pipework shall be concealed in walls, void space or ducts unless noted otherwise.
- 10. Pipework shall be pressure tested progressively to ensure no leaks. Refer Specification.
- 11. Where floor waste gullies are indicated, the floors shall be graded towards the outlet.
- 12. Tundishes shall be installed to receive Mechanical Plant waste and be connected above waste traps where detailed on Mechanical Engineer's drawings. Discharge to tundishes shall be 25mm above the tundish edge and be located in an accessible position.

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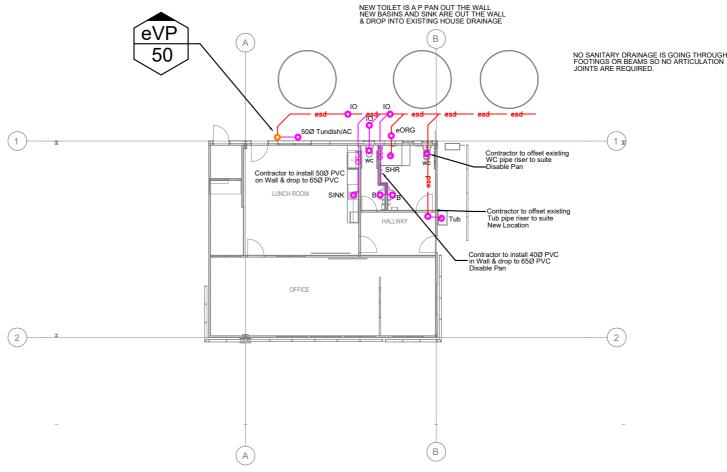
#### WATER

AREA OF WORK

- All water supply shall comply with Australian Standard AS3500, the Building Code
  of Australia and other authorities or regulations having jurisdiction over the installation.
  Make all applications and pay all associated fees and charges.
- All copper pipework shall be Hard Drawn Copper tubing type 'B' conforming to AS1432.
   Rehau Crosslinked Polyethylene tubing may be used as an alternative to copper tube except for any piping exposed externally, the last one metre at the hot water unit or penetrations through fire rated elements. Equivalent pipe sizes shall be used in accordance with AS3500.
- All pipework shall be concealed. Where pipework is exposed it shall be chrome plated.
   All pipework through fire rated walls or floors or ceiling shall be fire stopped.
- Pipe supports shall be installed progressively as pipes are installed. Support system shall be designed to safely and completely support the weight and thrust of pipework and associated work. Pipework shall be adequately anchored at thrust points.
- All pipework shall be DN20mm with DN15mm branches to individual fixtures unless noted otherwise. Maximum length of DN15mm branches shall be 2.0 metres.
- Do not install pipework into sound insulated walls unless otherwise noted.
- Closet pan cisterns shall be provided with chrome plated isolation valves.
- 8. Where pipework is in contact with dissimilar metals, the metals shall be insulated
- All isolation valves shall be positioned in approved accessible locations. Valves located in ducts or walls shall be positioned behind approved type access covers.
- Hose cocks shall be 600mm above finished surface level and shall be 20mm in size, and fitted with anti-vandal taps and approved vacuum breakers.
- 11. Hot water installations to all personal hygiene fixtures shall be set at max. 50° Celsius.







NOTE : SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE

Issue	Date	Amendment	Int.	Арр.
A	13/12/22	TENDER/APPROVAL ISSUES	C.S	C.S
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Hydraulic Consu



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- waterwisedesign(07) 4125 3510

25-31 DUNN ST BILOELA

BANANA SHIRE COUNCIL

HYDRAULIC SERVICES
SANITARY PLUMBING &

DRAINAGE PLAN.



Existing Sanitary Drainage Proposed Sanitary Drainage Proposed Water Proposed Tempered Water Stormwater

esd	- esd-	— esd—	— esd-	esd	— esd-	
—— PSD —	pen .	pc	n —	DSD	Den _	
			_			
—— PW —	— PW -	PW		PW	- PW —	
—	TW	TW	-TW	TWTW-	TW-	
CW	CW	CW	CW	CW	CW	

# STORMWATER DRAINAGE NOTES

- ALL STORMWATER DRAINAGE SHALL COMPLY WITH AS3500 "NATIONAL PLUMBING AND DRAINAGE CODE" AND IPWEA STANDARDS.
- 2. TRENCH EXCAVATIONS FOR DRAINAGE SHALL COMPLY WITH WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
- 3. MAINTAIN AND PROTECT EXISTING SERVICES TO BE RETAINED.
- 3. MAINTAIN AND PROTECT EXISTING SERVICES TO BE RETAINED.

  4. WHERE AN ALTERNATE CONSTRUCTION METHODOLOGY AND/OR PIPE CLASS IS PROPOSED
  BY THE CONTRACTOR, DOCUMENTATION OF SAME IS TO BE SUBMITTED TO THE ENGINEER
  FOR APPROVAL PRIOR TO CONSTRUCTION.

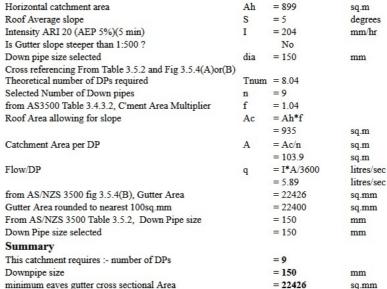
  5. STORMWATER STRUCTURES AND CONNECTIONS ARE TO BE AS INDICATED ON THE PLAN.
  ADJUSTMENTS TO THE DESIGN LAYOUT AS REQUIRED TO SUIT ACTUAL AS-CONSTRUCTED
  GEOMETRY SHALL REQUIRE THE ENGINEERS' APPROVAL.

  5. UPVC PIPES SHALL BE RUBBER RING JOINTED, CLASS SEH UNLESS NOTED OTHERWISE.

  7. SRCP SHALL BE RUBBER RING JOINTED, CLASS 3 UNLESS NOTED OTHERWISE.

- 10. COMPACTION TESTING IS TO BE CARRIED OUT AT THE SPECIFIED FREQUENCY BY A N.A.T.A. REGISTERED GEOTECHNICAL TESTING AUTHORITY AT THE CONTRACTORS COST. THE CONTRACTORS COST. THE CONTRACTOR SHALL PROVIDE DETAILS OF ALL TESTING TO THE ENGINEER PROGRESSIVELY THROUGH THE WORKS AND NOTIFY THE ENGINEER OF ANY NON-CONFORMANCES. ALL NON CONFORMING WORK IS TO BE RECTIFIED AS DIRECTED BY THE ENGINEER.
- RAINWATER TANK OVERFLOW IS TO BE PIPED INTO ONE OF THE PROPOSED PITS WITH A MINIMUM GRADE OF 0.5%. SPECIFIC DETAILS TO BE DETERMINED BY THE HYDRAULIC





SRCP SHALL BE RUBBER RING JOINTED, CLASS 3 UNLESS NOTED OTHERWISE.
CONNECTIONS OF DOWNPIPES TO BOTH DRAINAGE STRUCTURES AND PIPELINES SHALL BE
IN ACCORDANCE WITH THE HYDRAULICS CONSULTANTS DRAWINGS.
THE MAJORITY OF MATERIAL WON FROM PROPOSED TRENCH EXCAVATIONS SHOULD BE
SUITABLE FOR REUSE AS TRENCH BACKFILL MATERIAL APART FROM ANY OVERSIZE
MATERIAL SUITABLE MATERIALS FOR BACKFILLING SHOULD GENERALLY HAVE A MAXIMUM
PARTICLE SIZE NOT EXCEDING 150mm. OVERSIZE MATERIAL IS O BE CRUSHED TO A
PARTICLE SIZE =/<150mm PRIOR TO REUSE AS BACKFILL MATERIAL OR DISPOSED OFF SITE. litres/sec 300Ø PVC TO DISCHARGE TO CULVERT OR TO OVERLAND FLOW CHANNELS / SWALE DRAINS ARE TO BE GRADED EVENLY BETWEEN INVERT LEVELS PROVIDED. **OVERLAND BUBBLER** minimum eaves gutter cross sectional Area = 22426-STORMWATER PIPE in GROUND GUTTER SELECTED: Stratco OG Big One 600 girth Slotted; Area = 26345 sq.mm Notes: Catchment area of each DP to be roughly similar size. Length of any gutter draining to a downpipe to be not longer than 12m.(NCC vol2). - 210 --EXISTING RAINWATER TANKS TO BE UPGRADED OR TO HAVE NEW 225Ø OUTLETS INSTALLED. 00Ø PVC @ 1% FALL STORMWATER PIPE AT HIGH LEVEL -STORMWATER PIPE AT HIGH LEVEL -EAVES GUTTER TO BE UPGRADED TO STRATCO OG BIG ONE 600 SW 150 SW 150 SW 2 WAREHOUSE

NOTE: SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE

Issue		Amendment	Int.	App.
Α	13/12/22	TENDER/APPROVAL ISSUES	C.S	C.S
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COORDIN	ATED REFERENCE DRAWINGS		
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- materwisedesign.com.au **(**07) 4125 3510



BANANA SHIRE COUNCIL

HYDRAULIC SERVICES STORMWATER

DRAINAGE PLAN.





# Compliance certificate for building design or specification



This form is to be used by an appointed competent person for the purposes of section 10 of the *Building Act 1975* and sections 73 and 77 of the Building Regulation 2021 (Design-specification certificate) stating that an aspect of building work or specification will, if installed or carried out as stated in this form, comply with the building assessment provisions.

Additional explanatory information is included in the Appendix at the end of this form.

# 1. Property description

This section need only be completed if details of street address and property description are applicable.

E.g. in the case of (standard/generic) pool design/shell manufacture and/or patio and carport systems this section may not be applicable.

The description must identify all land the subject of the application.

The lot and plan details (e.g. SP/RP) are shown on title documents or a rates notice.

If the plan is not registered by title, provide previous lot and plan details.

Street address	25 – 31 Dunn St			
		Suburb/locality	Biloela	
State	QLD	Postcode		
Lot and plan details (attach list if necessary)				
Local governme	Local government area the land is situated in			
Banana Shire	Banana Shire			

# 2. Description of aspect/s certified

Clearly	v describe the extent of	work covered by this	s certificate, e.g. a	all structural aspec	cts of the steel roof beams.

Sanitary Drainage Roof Water Water Layout

### 3. Basis of certification

Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications were relied upon.

AS 3500.2018 AS 2870 2011			

# 4. Reference documentation

Clearly identify any relevant documentation, e.g. numbered structural engineering plans.

Job 221213 H-001-A,H-002-A

# 5. Building certifier reference number and building development approval number

Building certifier reference number	Building development application number (if available)	
-------------------------------------	--	--

# 6. Appointed competent person details

Under Part 6 of the Building Regulation a person must be assessed as a competent for the type of work (design-specification) by the relevant building certifier.

Name (in full)	Christopher Harold Searle				
Company name (if applicable)	Water Wise Design Hydraulic & I	Water Wise Design Hydraulic & Fire Service Consulting Pty Ltd			
Contact person					
Business phone number			Mobile	0414953963	
Email address	chris@waterwisedesign.com.au				
Postal address	Po Box 5485 Torquay				
		Suburb/	locality		
State	QLD Postcode 4655		4655		
Licence class or registration type (if applicable)	Fire Protection - Water-Based Fire System Stream Occupational – Certify & Hydraulic Services Design				

Licence or registration number (if applicable)	886793
--	--------

## 9. Signature of appointed competent person

This certificate must be signed by the individual assessed and appointed by the building certifier as competent to give designspecification help.

Signature	Mal		Date	13/12/2022
LOCAL GOVERNMENT USE ONLY				
Date received	Click or tap to enter a date.	Reference number/s		

# Appendix - explanatory information

**IMPORTANT NOTE**: it is an offence for a competent person to give a building certifier a document, including this form, that the person knows or reasonably suspects, is false or misleading.

Who can complete this certificate? (sections 10 of the *Building Act 1975* (Building Act) and 73 of Building Regulation 2021 (BR 2021))

A building certifier can accept from a competent person (design – specifications) a certificate stating that the competent person has assessed the building design or specification for the aspect of building work, and it will, if installed or carried out under the certificate, comply with the building assessment provisions, including any relevant standards and codes.

Schedule 10 of the BR 2021 defines *building design or specification* as any material, system, method of building or other thing related to the design of or specifications for building work.

For a competent person to meet the regulation requirements (section 77 of the BR 2021) they must substantially complete all sections of this form, including information, such as the design of a particular material, system, method of building or that a building element complies with the Building Code of Australia or a provision of the Queensland Development Code. It is also important that the details of the relevant reference documents are included, for example, the applicable Australian Standards or other technical provisions that may be applicable to the subject work.

### What is the purpose of this form? (section 10 of the Building Act 1975)

The information in this form informs the building certifier's decision making when they are assessing a building development application and issuing the building development approval for the building work the subject of the certificate (form).

## When is this form not required?

The assessment of some building applications will be entirely within the expertise of the relevant building certifier and therefore they may not seek the help of a competent person. In these instances, this form is not required.

### Is a manufacturer or supplier required under the BR 2021 to complete and sign this Form 15, if requested?

**No**. A manufacturer or supplier of building materials is not required to complete and give this form or any aspect and inspection certificates if requested by a construction contractor, builder, appointed competent person, or a building certifier.

However, a manufacturer or supplier <u>may give</u> the construction contractor, builder, competent person or the building certifier evidence of suitability such as a manufacturers statement for an aspect or material that it is compliant with the relevant reference documents in the BCA i.e. the applicable Australian Standard/s.

# What if there is not enough space for all the supporting material/documents?

Items 2, 3 and 4 requires the competent person to clearly identify the extent of the assessment that was undertaken for aspect/s of work identified in this form.

For instance, there is provision for material such as specifications, standards, codes or other relevant publications to be referenced in the form. However, if the space in the form is not sufficient to accommodate all of this material, you can create and refer to additional material in an addendum or attachment to the form.

The form is also available in a Microsoft Word version, that you can download and edit to include additional material in the relevant parts of the form. **Note**: that editing the form in the Microsoft Word version may cause the relevant boxes to expand and

increase the length of the document. This is acceptable and does not change the approved form, provided the section text (description on the left-hand side of the page) is not altered.

# Appointed competent person (design or specification) - (sections 34 and 36 of the BR 2021)

A building certifier must assess and decide to appoint an individual as a competent person before they can, as a competent person, give design-specification help. The building certifier is required to keep detailed records about what was considered when appointing a competent person.

A building certifier must be satisfied that an individual is competent to give the type of inspection help having regard to the individual's experience, qualifications and skills and if required by law to hold a licence or registration, that the individual is appropriately registered or licensed.

An individual is appointed as competent to give design-specification help on or from a particular day. The building certifier can also decide an individual is a competent person (design-specification) and a competent person (inspection) at the same time or for the same systems or components of the work.

For further information about assessment of someone as a competent person refer to the **Guideline for the assessment of competent persons**.

# **PRIVACY NOTICE**

The Department of Energy and Public Works is collecting personal information as required under the *Building Act 1975*. This information may be stored by the Department, and will be used for administration, compliance, statistical research and evaluation of building laws. Your personal information will be disclosed to other government agencies, local government authorities and third parties for purposes relating to administering and monitoring compliance with the *Building Act 1975*. Personal information will otherwise only be disclosed to third parties with your consent or unless authorised or required by law.