

A091212 - PROPOSED UNITS 7 & 8 EAST HILLS

1. GENERAL NOTES

- 1.1. These drawings are a guide only for the location and layout of the service pipes.
- 1.2. Do not scale from these drawings. Refer to architectural drawings for all setout dimensions.
- 1.3. These drawings are to be read in conjunction with the architectural specification and drawings for the final position of fixtures and fittings. Reference should also be made to the engineers specification and drawings.
- 1.4. The contractor Is to verify all invert levels, surface levels, clearances and covers are correct and obtainable before commencement of any works. Notify Aqualogical of any issues prior to installation.
- 1.5. All work is to be constructed in accordance with the Australian Standards, Plumbing and Drainage Act 2002, and to the approval of the local authority.
- 1.6. All existing services which are no longer required shall be removed or sealed off to the satisfaction of the local authority.
- 1.7. Allow all costs for work to be undertaken outside of normal trading hours.
- 1.8. Allow all costs to cut concrete, excavate, lay pipe and reinstate. Structural approval is required prior to commencement.
- 1.9. All materials shall be in accordance with the Standard Plumbing and Drainage Regulation, WELS and the relevant Australian Standards.
- 1.10. The contractor is to pay all fees in association with local authority approvals, connection and construction costs as well as required tests and inspections for this project.
- 1.11. The contractor shall make themselves familiar with all site constraints through a site visit prior to final tender submission.
- 1.12. The contractor shall co-ordinate all pipework with the other trade services prior to commencement of any work.
- 1.13. All services are to be tested & final certificate to be gained from the local authority prior to handover.
- 1.14. All water meters shall have a stainless steel tag 50mm diameter engraved and fixed to the pipework adjacent, indicating the meter number in accordance with the water meter schedule on this drawing.

2. HOT & COLD WATER SUPPLY

- 2.1. All hot and cold water reticulation pipe work shall be minimum DN15mm supply to a single fixture and minimum DN20mm to two or more fixtures UNO. Refer diagrammatic for sizing.
- 2.2. The length of a DN15mm branch within the cold water reticulation should not exceed 3m UNO.
- 2.3. All hot and cold water reticulation shall be run in the ceiling space or the cavity space of the walls. Pipes located within masonry walls or concrete slabs shall be insulated kemlag tube or be wrapped with an equivalent approved material UNO.
- 2.4. All in-ground water services shall be either PN 16 medium density polyethylene or type 'B' copper tube laid in clean sand. All Inground copper tube shall be insulated kemlag tube or wrapped in Denso Wrap or sleeved in polyethylene pipe wrap equal to Crevet Pipelines "Mac-Wrap".
- 2.5. All above ground exposed water services shall be chrome plated copper tube type 'B' or stainless steel.
- 2.6. All hot water pipes shall be insulated to AS3500.4
- 2.7. All pipe sizes are shown as nominal diameters (DN) UNO. Refer to AS/NZS 3500.1. table 1.1 for equivalent pipe sizes.
- 2.8. Location of control valves are shown diagrammatically only, and are to be located on site in an accessible position.
- 2.9. All inground water meters and control valves to be installed within concrete valve boxes with heavy duty lids where subject to vehicular traffic.
- 2.10. Hot water units to be installed in accordance with AS/NZS 3500.4 and local authority requirements.
- 2.11. Temperature, pressure relief valve and cold water relief valve from hot water unit to discharge independently through a DN15mm copper pipe in accordance with AS/NZS 3500.4.2 clause 4.12.
- 2.12. The contractor shall allow to supply and install thermostatic mixing valves or equivalent within the hot water reticulation system to prevent temperatures above 50° C being supplied to sanitary fixtures within the personal hygiene areas (i.e. showers and hand basins).

3. SANITARY PLUMBING & DRAINAGE

- 3.1. All sanitary drainage shall be 100 ø and shall be laid at a minimum grade of 1.65% UNO.
- 3.2. All inspection openings under concrete are to be taken to surface level uno. Where subject to vehicular traffic, all inspection openings shall be finished with a brass clear out cover suited for anticipated loads. All internal inspection openings shall be stainless steel or chrome plated brass.
- 3.3. All floor waste gullies shall have 100 ø screwed removable grates.
- 3.4. All Drainage & Sanitary plumbing shall be UPVC class DWV to AS/NZS 1260, with solvent welded joints.
- 3.5. Fixture discharge pipe sizes UNO
basin = ø 40mm trap and waste pipe.
sink = ø 50mm trap and waste pipe.
wc = ø 100mm waste pipe.
shr = ø 50mm waste pipe,
(and trap if connected direct to waste).
- 3.6. All fixtures, fittings, associated materials and installation costs required for installation and correct operation shall be supplied by the contractor.

4. STORMWATER SERVICES

- 4.1. All stormwater services to be installed in accordance with AS/NZS 3500.3.2.
- 4.2. All stormwater is to be hydrostatic tested as required in AS/NZS 3500.3.2.
- 4.3. All stormwater drainage services to the civil interface to be installed in UPVC class SN4 (100 ø) and class SN6 (150 ø) to AS/NZS 1260 - solvent welded joints.

5. RAINWATER

- 5.1. The contractor shall include all costs associated with the supply and installation of the rainwater service including the specified Rainwater tank, Pump, reticulation and signage.
- 5.2. All rainwater reticulation shall be PN 12.5 medium density polyethylene (MDPE) or equivalent.
- 5.3. All roof gutters to have leaf guards installed with a maximum 6mm openings.
- 5.4. All rainwater tanks to have mosquito proof inlets & overflows.
- 5.5. Rainwater pumps to have low level pump cutout installed.
- 5.6. All rainwater outlets shall have installed adjacent, a rainwater sign in accordance with AS1345.

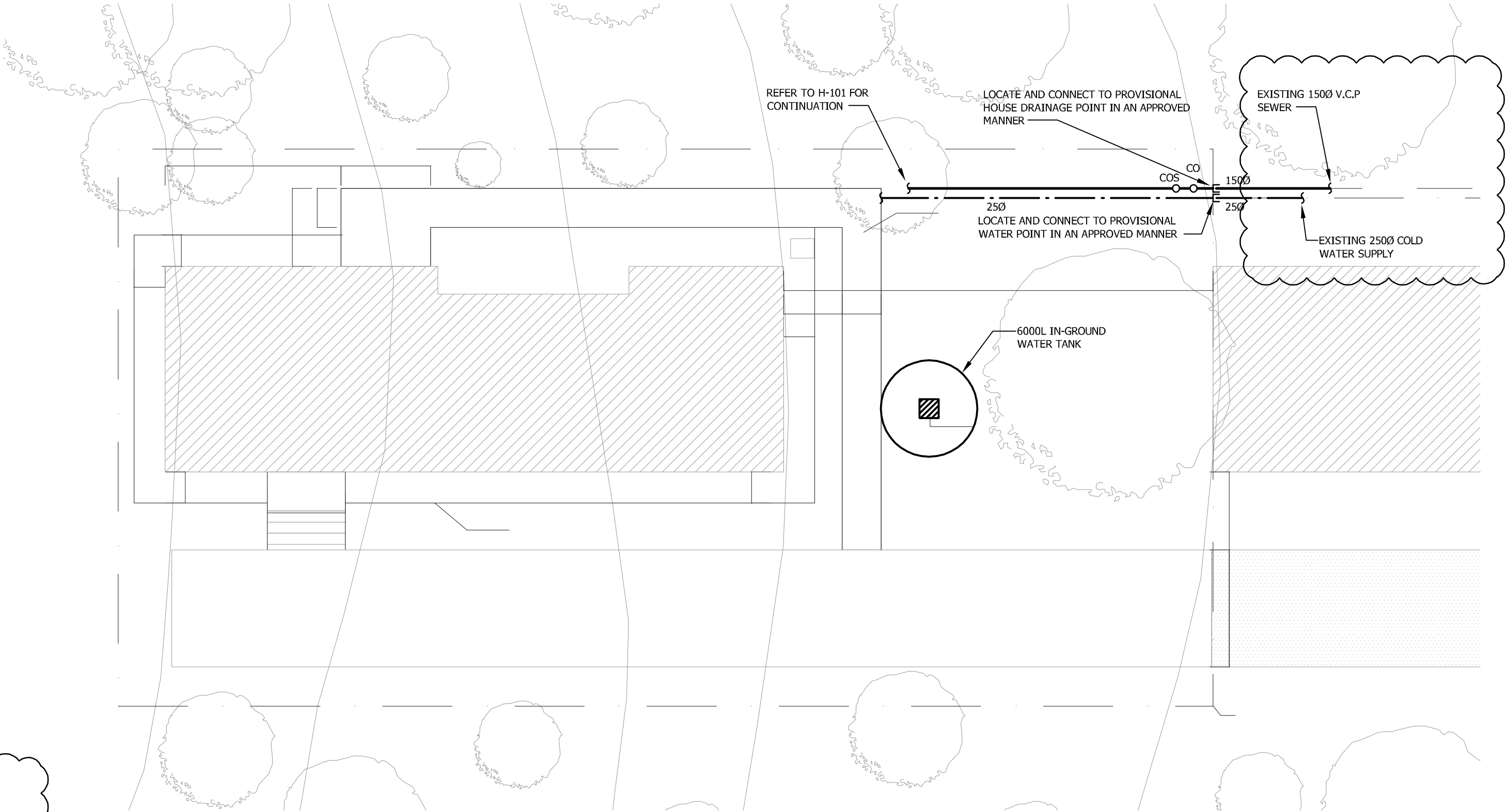
LEGEND

AS	AUSTRALIAN STANDARD		
B	BASIN		
BTH	BATH		
CHV	CHECK VALVE		
CO	CLEAR OUT		
COS	CLEAROUT TO SURFACE		
CWD	COLD WATER DROPPER		
CWR	COLD WATER RISER		
DCV	DOUBLE CHECK VALVE		
DP	DOWN PIPE		
DW	DISH WASHER		
DWG	DRAWING		
e	EXISTING		
EPD	ELEVATED PIPE DROPPER		
FU	FIXTURE UNITS		
FWG	FLOOR WASTE GULLY		
HT	HOSE TAP		
HWD	HOT WATER DROPPER		
HWR	HOT WATER RISER		
HWU	HOT WATER UNIT		
IV	ISOLATION VALVE		
L	LITRE		
L/H	LITRES PER HOUR		
L/S	LITRES PER SECOND		
LU	LOADING UNITS		
ORG	OVERFLOW RELIEF GULLY		
PVC	POLYVINYL CHLORIDE		
SK	SINK		
SHR	SHOWER		
SWIP	STORMWATER INSPECTION PIT		
TTD	TRAPPED TUNDISH		
VP	VENT PIPE		
WC	WATER CLOSET		
WM	WATER METER		
		---	NEW HOUSE DRAINAGE
		- - - - -	NEW VENT LINE
		---	NEW HOT WATER SERVICE
		- - - - -	NEW COLD WATER SERVICE
		---	NEW RAINWATER SERVICE
		---	NEW STORMWATER SERVICE
		---	EXISTING HOUSE DRAINAGE
		- - - - -	EXISTING SEWER
		- - - - -	EXISTING COLD WATER SERVICE
		---	EXISTING STORMWATER SERVICE

FIXTURE TABLE FOR HOUSE DRAINAGE SIZING			
FIXTURE	FIXTURE UNITS	NUMBER	TOTAL
BATHROOM GROUP	6	2	12
BASIN	-	1	-
BATH	-	1	-
DISHWASHER	-	1	-
LAUNDRY TUB	-	1	-
SHOWER	-	1	-
SINK	-	1	-
WASHING MACHINE	-	1	-
LAUNDRY TUB	-	1	-
WC	-	1	-
TOTAL			24

LOADING UNIT TABLE FOR WATER SERVICES SIZING			
FIXTURE	ABBREVIATION	LOADING UNITS	NUMBER OF FIXTURES
BASIN	B	1	2
BATH	BTH	8	1
DISHWASHER	DW	3	1
HOSE TAP	HT	4	2
HOT WATER UNIT	HWU	8	1
LAUNDRY TUB	LT	3	1
SHOWER	SHR	2	2
SINK	SK	3	1
WASHING MACHINE	WM	3	1
WATER CLOSET	WC	2	2
TOTAL			46
FLOW (L/S)			0.52
VELOCITY (M/S)			1.256
DIAMETER METER (MM)			25

RAINFALL INFORMATION FOR BRISBANE, QLD		
TOTAL CATCHMENT AREA		m²
RAINFALL (ANNUAL AVG.)		mm/year
Q100	333	mm/hr
Q20	251	mm/hr



SITE PLAN
SCALE 1:200

Designed to comply with Plumbing and Drainage Act 2002

Services designed to comply with
Cold Water to AS3500.1.2
Hot Water to AS3500.4.2
Sanitary Plumbing & Drainage to AS3500.2.2

A	05.03.10	preliminary Issue	VA
B	27.01.11	revised Issue	VA

RPD

PROPERTY OWNER



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PROJECT
**PROPOSED UNITS 7 & 8
EAST HILLS**

**HYDRAULIC SERVICES
COVER SHEET**
• Drainage Layout
• Water Service

DESIGN **R.OMALLEY** VALIDATED **A.FREEMAN**

SCALE **1:200 @ A3**

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