

**NOTE:**  
REFER TO DRAWING B08208-301  
FOR NOTES, DETAILS & LEGEND.

FILE: B08208-300.dwg DATE: 31-08-2010 TIME: 15:46  
Xref's: X\_B08208\_TITLE X\_B08208\_BASE USR: Kate Pilkington

ISSUE	NO.	DATE	DESCRIPTION
A	1	15.06.10	ROAD No.23 DELETED, DRIVEWAY No. 1, PMT SITE & ELECTRICAL LAYOUT ADDED
B			
C			
D			
E			
F			

DESIGN CHECK	SCALE (METRES)
DESIGN CHECK	1:500
DRAWN CHECK	1:1000

MICROFILM No.	
PROJECT No.	<b>B08208</b>
SURVEYOR	CONIGS P/L - BRISBANE TOWN PLANNERS Ph. 3237 8899 THE HEILBRONN GROUP RESOURCE STRATEGISTS Ph. 3289 1666
APPROVED	ANDREW MCPHAIL RPEQ 6921 JEFF GRIFFITHS RPEQ 415 DEAN PAYNE RPEQ 4802
FOR & ON BEHALF OF	BROWN CONSULTING (QLD) PTY LTD

CLIENT	<b>PEET WARNER LAKES SYNDICATE LIMITED</b>
PROJECT	<b>WARNER LAKES ESTATE STAGE 118 BRISBANE ROAD, WARNER</b>

**BROWN**

Brown Consulting (QLD) Pty Ltd. Engineers & Managers  
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M.B.R.C. REF No:	<b>2009/12132/COMB</b>
DRAWING TITLE	<b>WATER RETICULATION LAYOUT PLAN</b>
DRAWING NUMBER	<b>B08208-300</b>
ISSUE	<b>A</b>

**LEGEND**

- PROPOSED 100Ø WATER MAIN
- - - - - PROPOSED 150Ø WATER MAIN
- · - · - · - PROPOSED 200Ø WATER MAIN
- - - - - EXISTING WATER MAIN
- PROPOSED HYDRANT
- >— PROPOSED REDUCER
- X— PROPOSED SLUICE VALVE
- +— PROPOSED WATER SERVICE CONNECTOR
- E— PROPOSED ELECTRICITY
- C— PROPOSED WATER CONDUIT
- X WATER SERVICE POINT OF ENTRY
- ⊕ HIGH POINT
- ⊙ LOW POINT

TABLE OF FITTINGS		
ITEM No.	DESCRIPTION	QTY
1	100Ø x 11.25° BEND	5
2	100Ø x 22.5° BEND	4
3	100Ø x 90° BEND	1
4	150Ø x 11.25° BEND	1
5	200Ø x 11.25° BEND	11
6	200Ø x 22.5° BEND	2
7	200Ø x 45° BEND	1
8	200Ø x 100Ø TEE	3
9	200Ø x 200Ø TEE	1
10	200Ø END CAP	2
11	200Ø x 150Ø REDUCER	1
12	100Ø x 80Ø HYDRANT TEE	5
13	200Ø x 80Ø HYDRANT TEE	5
14	150Ø x 80Ø HYDRANT FLUSHING BEND	1
15	100Ø SLUICE VALVE	2
16	150Ø SLUICE VALVE	1
17	200Ø SLUICE VALVE	3
18	100Ø PRE-TAPPED SERVICE CONNECTOR	8
19	200Ø TAPPING BAND SERVICE CONNECTOR	34

CONNECTIONS TO EXISTING MAINS		
TO BE UNDERTAKEN BY COUNCIL OR CONTRACTOR AS DETERMINED BY THE SUPERINTENDENT.		
No.	Ø	DESCRIPTION
1.	100	REMOVE EXISTING 100Ø END CAP. CONNECT TO AND LAY AWAY FROM EXISTING MAIN.

**WATER RETICULATION NOTES**

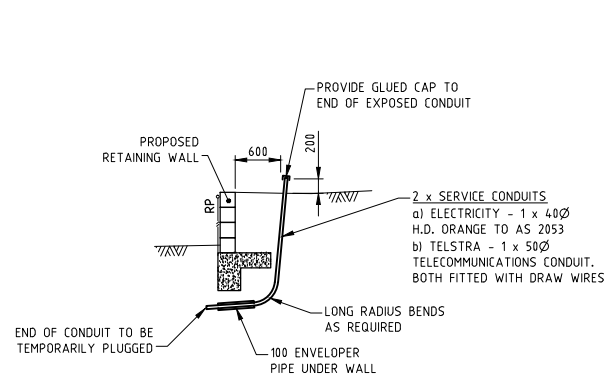
- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT P.R.S.C. STANDARD DRAWINGS AND SPECIFICATIONS.
- WATER SERVICE CONNECTIONS ON 100Ø AND 150Ø NEW WATERMAINS SHALL INCORPORATE THE USE OF 'READY TAP FITTINGS', REFER TO STD. DRG. No. 8-40016 & 8-40017.
- WATER SERVICE TAPPING BANDS SHALL BE PROVIDED ON MAINS 200Ø AND GREATER IN ACCORDANCE WITH STD. DRG. No. 8-40017.
- CONCRETE THRUST BLOCKS SHALL BE PROVIDED TO ALL BENDS (HORIZONTAL AND VERTICAL); TEES; REDUCERS; DEAD ENDS; VALVES; etc REFER STD. No. 8-40006.
- CONCRETE ANCHOR BLOCKS SHALL BE PROVIDED TO STEEP MAINS (>1 IN 6) IN ACCORDANCE WITH THE SPECIFICATION AND STD. DRG. No. 8-40010.
- CREST VERTICAL BENDS TO MAINS TO BE PROVIDED WITH CONCRETE ANCHOR BLOCKS WITH M.16 ANCHOR BOLTS AND 50x6 FMS STRAPS (ALL GALVANISED).
- ALL WATERMAINS SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH STD. DRG. No. 8-40010.
- REFLECTIVE MARKERS ARE REQUIRED TO BE LOCATED ON ALL HYDRANTS AND VALVES, AND SHALL BE INSTALLED IN ACCORDANCE WITH STD. DRG. Nos. 8-40003 AND 8-40004.
- ALL FIRE HYDRANTS SHALL BE LOCATED OPPOSITE COMMON PROPERTY BOUNDARIES, UNLESS SPECIFICALLY NOTED OTHERWISE.
- VALVES AT ROAD INTERSECTIONS SHALL BE LOCATED AT ENDS OF THE TRUNCATION (U.N.O).
- ALL WATERMAINS SHALL BE LOCATED WHOLLY WITHIN THE DESIGNATED WATERMAIN CORRIDOR. COUNCIL RESERVES THE RIGHT TO REQUEST THE CONTRACTOR TO RECONSTRUCT THOSE PORTIONS OF THE WATERMAIN, WHICH ARE CONSTRUCTED OUTSIDE OF THE DESIGNATED CORRIDOR(S).
- HYDRANTS AND VALVES, INCLUDING MARKER POSTS COMPLETE, SHALL BE INSTALLED IN ACCORDANCE WITH STD. DRG. No. 8-40004 & 8-40005.
- WATERMAINS TO BE LOCATED ON AN ALIGNMENT OF 2.55 METRES OFF THE PROPERTY BOUNDARY UNLESS NOTED OTHERWISE.
- CONNECTIONS TO EXISTING WATER MAINS ARE TO BE CARRIED OUT, AT THE DEVELOPER'S EXPENSE, AS DIRECTED BY THE SUPERINTENDENT EITHER:
  - A) BY THE M.B.R.C.
  - OR B) BY THE CONTRACTOR UNDER M.B.R.C. SUPERVISION
- TESTING AND DISINFECTION SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY REQUIREMENTS.
- TRENCH CONSTRUCTION AND COVER OVER MAINS SHALL BE IN ACCORDANCE WITH STD. DRG. No. 8-40010.
- WHERE WATER SERVICE CONNECTIONS ARE TO BE MADE TO EXISTING WATERMAINS, THE PROPOSED BOUNDARIES SHALL BE STAKED BY A LICENSED SURVEYOR AND A LOT CALCULATION PLAN DETAILING THE PROPOSED ALLOTMENTS PROVIDED TO PINE WATER PRIOR TO INSTALLATION OF ALL NEW SERVICES BY COUNCIL.
- WHERE WATER SERVICE CONNECTION POINTS ARE BENEATH CONCRETE PATHWAYS, BIKEWAYS OR DRIVEWAYS, THE PRINCIPAL CONTRACTOR SHALL COORDINATE WITH M.B.R.C. WATER SECTION THE INSTALLATION OF ALL PROPOSED WATER SERVICE CONNECTION POINTS PRIOR TO INSTALLATION OF CONCRETE PATHWAYS, BIKEWAYS OR DRIVEWAYS.
- ALL 'AS CONSTRUCTED' INFORMATION SHALL BE RECORDED IN ACCORDANCE WITH M.B.R.C. REQUIREMENTS PRIOR TO BACKFILLING OF TRENCHES.

**PIPES, FITTINGS & VALVES**

- ALL C.I. FITTINGS SHALL BE TO A.S. 2544 WITH SOCKET ENDS DESIGNED FOR USE WITH PVC OR DUCTILE IRON PIPES AS APPLICABLE AND SHALL BE 'LIGHT' CEMENT LINED.
- PRESSURE PIPES USED FOR WATER SUPPLY INSTALLATIONS SHALL BE RUBBER RING JOINTED PIPES AND SHALL BE EITHER uPVC CLASS 16 (HARDIE IPLEX 'BLUE BRUTE' OR SIMILAR APPROVED) OR DUCTILE IRON CEMENT LINED CLASS K9 PIPES TO A.S. 2280 AT ROAD CROSSINGS.
- ALL ROAD CROSSINGS SHALL EXTEND 1.0m PAST NOMINAL KERB LINE AND SHALL BE;
  - EITHER A) uPVC CLASS 20 (R.R.J) WITH 1.2m COVER AND 300mm (min) CLEARANCE TO OTHER SERVICES
  - OR B) D.I.C.L. CLASS K9 (R.R.J) WITH MINIMUM COVER OF FULL DEPTH OF ROAD PAVEMENT PLUS 150mm.
- PIPES MUST BE AC/DUCTILE IRON OD COMPATIBLE. OTHER TYPES AND CLASSES OF PIPES SHALL NOT BE INSTALLED.
- CAST IRON GATE (SLUICE) VALVES ARE TO CONFORM TO A.S. 2638.
- ALL VALVES AND HYDRANTS SHALL BE COATED INTERNALLY AND EXTERNALLY WITH A FUSION BONDED EPOXY.
- ALL NUTS, BOLTS AND WASHERS SHALL BE STAINLESS STEEL GRADE 316.
- VALVES AND FITTINGS SHALL BE LOCATED ON FOOTPATH.
- BENDS SHALL BE USED WHERE ANGLES EXCEED THE MANUFACTURER'S RECOMMENDED MINIMUM RADIUS FOR LAYING PIPES ON CURVES.
- THE MINIMUM DISTANCE BETWEEN TWO ADJACENT READY TAP CONNECTORS SHOULD BE 600mm.

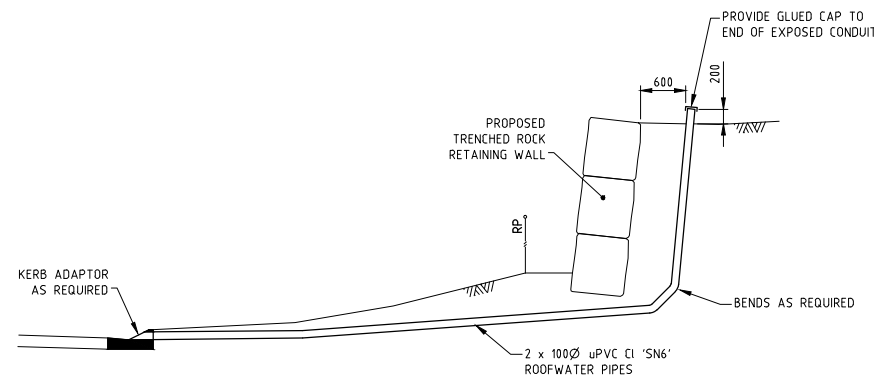
**SERVICE CONDUITS**

- SERVICE CONDUITS TO BE INSTALLED UNDER THE ROADWORKS CONTRACT AND SHOWN THUS: ----C---- ON THE DRAWING, SHALL BE INSTALLED TO DETAILS IN ACCORDANCE WITH P.R.S.C. STD. DRG. No. 8-40016 AND SHALL BE:
  - EITHER A) 80Ø uPVC CLASS 9 (S.W.J)
  - OR B) 100Ø FRC CLASS 2 (R.R.J)
- SERVICE CONDUIT MARKERS MUST BE LOCATED DIRECTLY ABOVE CONDUITS.
- SERVICE CONDUITS SHALL EXTEND 300mm PAST CONCRETE FOOTPATHS.



**ELECTRICAL & TELSTRA CONDUITS**  
SCALE 1:50

TO LOT No. 1337 AND 1362  
(TOTAL = 2 LOTS)



**ROOFWATER CONNECTION TO K&C**  
SCALE 1:50

TO LOT No. 1337  
(TOTAL = 1 LOT)

FILE: B08208-301.dwg DATE: 27-07-2010 TIME: 14:12  
Xref: X\_B08208\_TITLE USR: Kate Pilkington

ISSUE	KW	KW	DATE	AMENDMENT DETAILS
A	KLP	KLP	15.06.10	LEGEND UPDATED
B				
C				
D				
E				
F				

DESIGN CHECK	SCALE (METRES)
	1:50 1 0.5 0 1 2 A1
DRAWN CHECK	1:100

MICROFILM No.	SURVEYOR CONICS P/L - BRISBANE TOWN PLANNERS Ph. 3237 8899 THE HELBRONN GROUP RESOURCE STRATEGISTS Ph. 3289 1666
PROJECT No. <b>B08208</b>	APPROVED ANDREW MCPHAIL RPEQ 6921 JEFF GRIFFITHS RPEQ 4165 DEAN PAYNE RPEQ 4802
	FOR & ON BEHALF OF BROWN CONSULTING (QLD) PTY LTD

CLIENT <b>PEET WARNER LAKES SYNDICATE LIMITED</b>	PROJECT <b>WARNER LAKES ESTATE</b> STAGE 118 BRISBANE ROAD, WARNER
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DRAWING TITLE <b>WATER RETICULATION LEGEND, NOTES AND DETAILS</b>	
DRAWING NUMBER <b>B08208-301</b>	ISSUE <b>A</b>