

ROADWORKS AND DRAINAGE NOTES

- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CURRENT P.R.S.C. STANDARD DRAWINGS AND METHODS.
- NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE CROSS SECTIONS, THE ACTUAL LIMITS SHALL BE DETERMINED ON-SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.
- LEVELS FOR KERB AND CHANNELING CONSTRUCTION ARE AT EQUAL INTERVALS AT LIP OF CHANNEL UNLESS SHOWN OTHERWISE.
- SIDE DRAINS TO BE CONSTRUCTED UNDER ALL KERBS AND ALL KERB AND CHANNEL TO P.R.S.C. STD. DRG. No. 8-10039.
- ALL STORMWATER PIPES UNDER ROADWAYS AND FOOTPATHS SHALL BE CLASS '3' RCP OR FRC UNLESS NOTED OTHERWISE.
- ALL STORMWATER PIPES UP TO AND INCLUDING 600Ø SHALL BE R.R.J. STORMWATER PIPES GREATER THAN 600Ø SHALL BE INTERNAL FLUSH JOINTED WITH PROPRIETARY EXTERNAL BAND.
- STEPIRONS ARE TO BE PROVIDED IN STORMWATER MANHOLES AND GULLIES GREATER THAN 1.20m DEEP.
- ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.
- SUBGRADE TEST RESULTS TO BE FORWARDED TO SUPERINTENDENT. FOR DETERMINATION OF BOX DEPTHS PRIOR TO EXCAVATION, TESTS SHALL INCLUDE SOAKED CBR AND/OR OTHER TESTS AS REQUESTED BY THE SUPERINTENDENT.
- CONTRACTOR TO LIAISE WITH ALL RELEVANT SERVICE AUTHORITIES TO ASCERTAIN SERVICES PRESENT ON-SITE. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT BY THAT SERVICE AUTHORITY ONLY.
- FOOTPATHS SHALL BE TRIMMED AND ROLLED PRIOR TO PLACING OF 75mm TOPSOIL AND PROVISION OF 'B' GRADE TURF TO THE FULL WIDTH OF THE VERGE BETWEEN THE KERB AND THE PROPERTY BOUNDARY (U.N.O).
- ALL EXCAVATION AND FILLING SHALL BE COMPACTED TO THE REQUIREMENTS OF AS3798-1996 IN ACCORDANCE WITH THE LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
- THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF DEMOLISHING ANY EXISTING STRUCTURES WITHIN THE SITE AREAS.
- THE STORMWATER PIPE CLASSES HAVE BE DESIGNED FOR SERVICE LOADS ONLY, AND THE CONTRACTOR SHALL ACCESS ANTICIPATED CONSTRUCTION LOADS AND UPGRADE THE PIPE CLASSES IF NECESSARY, IN ACCORDANCE WITH A.S. 3725 - 1989.
- RETAINING WALL SUBSOIL DRAINS TO CONNECT TO KERB AND CHANNEL SUBSOIL OR STORMWATER DRAINAGE STRUCTURES.
- ALL GULLIES TO BE TYPE 'A' TO P.R.S.C. STD. DRG. No's 8-30001, 30002 AND 30003 (U.N.O).
- WORKS SHALL BE PROGRAMMED SO AS NOT TO DISTURB NEARBY HOUSEHOLDERS EITHER BY DUST, NOISE, FLOODING, SILTATION OR DISCONNECTION OF SERVICE.
- A.C. SURFACING < 50mm SHALL NOT BE CONSIDERED AS PART OF THE PAVEMENT THICKNESS.
- ALL ROAD CROSSING SERVICE CONDUIT ENDS SHALL BE EXPOSED AND THE CONDUITS RODDED AT THE PRE-SEAL INSPECTION WITH THE M.B.R.C. ENGINEER.
- KERB RAMPS ARE TO BE CONSTRUCTED AT ALL TURNOUTS TO P.R.S.C. STD. DRG. No. 8-10045.
- STREET NAME SIGNS ARE TO BE ERECTED AT ALL STREET INTERSECTIONS PRIOR TO THE 'ON MAINTENANCE' INSPECTION IN ACCORDANCE WITH P.R.S.C. STD. DRG. No. 1-0047.
- 80% GRASS COVERAGE MUST BE ESTABLISHED BY THE 'OFF MAINTENANCE' INSPECTION.

ROOFWATER NOTES


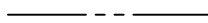

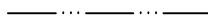

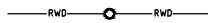
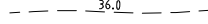
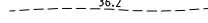

- SET OUT POINT FOR DRAINAGE STRUCTURES IS TO THEIR GEOMETRIC CENTRE.
- ALL ROOFWATER DRAINS AND PITS TO BE LOCATED ON A 2.5m ALIGNMENT (U.N.O).
- ROOFWATER PIPES TO BE uPVC CLASS 'SN6' (100Ø), 'SN4' (150Ø & 225Ø) OR R.C.P. CLASS '2' (U.N.O).
- ALL ROOFWATER DRAINS TO BE BEDDED AND SURROUNDED WITH SAND (100mm).
- ROOFWATER PIPES TO HAVE 500mm (MIN) COVER IN PRIVATE PROPERTY.
- REFER TO DESIGN DRAWINGS FOR DETAILS OF ROOFWATER PITS AND P.R.S.C. STANDARD DRAWING No. 8-30004 FOR FIELD INLETS. ROOFWATER PITS DEEPER THAN 1.20m TO BE 1100Ø STORMWATER MANHOLES WITH STEP IRONS.
- FINISHED SURFACE LEVELS SHOWN FOR GRATED INLETS ARE APPROXIMATE ONLY. TOPS ARE TO BE AT THE INVERT OF THE ROOFWATER CUT-OFF DRAIN (IF APPLICABLE).
- ALL LOTS CONTAINING ROOFWATER PITS SHALL HAVE CATCH-DRAINS ALONG THEIR DOWNSTREAM BOUNDARIES TO DIRECT SURFACE WATER TO THE INLET.
- HOUSE CONNECTIONS TO ROOFWATER PITS TO BE 2 x 100Ø STUBS AS INDICATED (U.N.O).
- ALL LOTS FALLING TO ROADS SHALL BE PROVIDED WITH 2 x FULL HEIGHT KERB ADAPTORS LOCATED 500mm UP FROM THE DOWNSTREAM PROPERTY BOUNDARY AND SHALL EXTEND PAST CONCRETE PATHWAYS (WHERE APPLICABLE) WITH 2 x 90Ø uPVC SN10 PIPES TO 500mm INSIDE THE PROPERTY IN ACCORDANCE WITH P.R.S.C. STD. DRG. No. 8-30028.

NOTWITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THE JOB DRAWINGS, NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPLE FOR THIS INFORMATION WHICH HAS BEEN SUPPLIED BY OTHERS. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL ASCERTAIN THE POSITION OF ANY UNDERGROUND SERVICES IN THIS AREA AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO.

NOTES

- THE CONTRACTOR SHALL TAKE OUT ALL APPROPRIATE LOCAL AUTHORITY PERMITS PRIOR TO COMMENCING WORK.
- FOR MARKETING REASONS, IT IS ESSENTIAL THE SITE IS KEPT IN A TIDY STATE EVEN DURING CONSTRUCTION. THE CONTRACTOR SHALL ALLOW IN HIS TENDER TO CLEAN-UP THE SITE INCLUDING REMOVAL OF RUBBISH AND EXCESS SOIL, STACKING OF LOOSE PIPES AND GRADING OF DISTURBED AREAS AS DIRECTED EACH FRIDAY AFTERNOON TO PRESENT THE SITE IN THE MOST ATTRACTIVE MANNER AT ALL TIMES.
- LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS MAY BE VARIED AS REQUIRED TO ACHIEVE A SATISFACTORY CONNECTION AND THE CONTRACTOR SHALL INCLUDE THE COST OF THIS WORK IN THE TENDER PRICE. WHERE NEW WORK JOINS EXISTING, THE EXISTING PAVEMENT IS TO BE SAW-CUT BACK 150mm TO ENSURE A NEAT JOIN. THE WORK SHALL TRANSITION NEATLY WITH THE EXISTING PAVEMENT SO THAT THE DEVIATION FROM THE STRAIGHT LINE OF A 3.0m STRAIGHT EDGE SHALL BE NO GREATER THAN 10mm.
- ALL FILL AREAS SHALL BE CLEANED OUT TO SOLID AND INSPECTED BY THE SUPERINTENDENT BEFORE FILL IS PLACED.

LEGEND

-  PROPOSED STAGE BOUNDARY
-  PROPOSED LAYBACK KERB AND CHANNEL
-  PROPOSED UPRIGHT KERB AND CHANNEL
-  PROPOSED SPOON DRAIN
-  PROPOSED STORMWATER DRAINAGE
-  PROPOSED ROOFWATER DRAINAGE
-  EXISTING SURFACE CONTOUR
-  DESIGN SURFACE CONTOUR
-  PROPOSED THRESHOLD TREATMENT AND PARKING BAYS

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Xref's: X_B08208_TITLE USR: Kate Pilkington

ISSUE	SE	KW	DATE	AMENDMENT DETAILS
A	SE		27.10.09	LEGEND AMENDED
B				
C				
D				
E				
F				

DESIGN CHECK	SCALE (METRES)
DRAWN CHECK	

MICROFILM No.	SURVEYOR CONICS P/L - BRISBANE TOWN PLANNERS Ph. 3237 8899 THE HELBRONN GROUP RESOURCE STRATEGISTS Ph. 3289 1666
PROJECT No. B08208	APPROVED ANDREW MCPHAIL RPEQ 6921 JEFF GRIFFITHS RPEQ 4115 DEAN PAYNE RPEQ 4802
	FOR & ON BEHALF OF BROWN CONSULTING (QLD) PTY LTD

CLIENT PEET WARNER LAKES SYNDICATE LIMITED	PROJECT WARNER LAKES ESTATE STAGE 118 BRISBANE ROAD, WARNER
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Brown Consulting (QLD) Pty Ltd. Engineers & Managers
Level 6 199 Grey Street, South Brisbane QLD Australia 4101
Telephone 07 3895 3444 Facsimile 07 3895 3400
Brisbane Canberra Melbourne Sydney Singapore Sunshine Coast Brunel




WORKS AS CONSTRUCTED	
I, DEAN PAYNE, BEING A CERTIFICATED / REGISTERED ENGINEER AND DULY AUTHORISED REPRESENTATIVE OF BROWN CONSULTING (QLD) PTY LTD, HEREBY,	
<ul style="list-style-type: none"> CERTIFY THE INFORMATION CONTAINED IN THIS DRAWING IS AN ACCURATE 'AS CONSTRUCTED' REPRESENTATION OF THE WORKS; ACCEPT RESPONSIBILITY FOR THE 'AS CONSTRUCTED' INFORMATION CONTAINED IN THIS DRAWING; ACKNOWLEDGE THE 'AS CONSTRUCTED' INFORMATION CONTAINED IN THE DRAWING MAY BE RELIED ON BY COUNCIL AND OTHERS. 	
CERTIFICATION FOR STAGE 118	
SIGNATURE	RPEQ: 4802 DATE / /
FOR AND ON BEHALF OF BROWN CONSULTING (QLD) PTY LTD	
M.B.R.C. REF No: 2009/12132/COMB	
ROADWORKS AND DRAINAGE NOTES	
DRAWING NUMBER B08208-102	ISSUE A