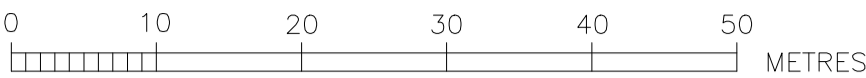


LOCALITY SKETCH AND ORIGIN OF LEVELS
(NOT TO SCALE)



- DENOTES SERVICED BY CASE 124817WW
- * DENOTES SERVICED BY CASE 163828WW

- DESIGNER AND WATER SERVICING COORDINATOR:
QALCHEK PTY LTD (CERTIFIED No.289)
77 UNION RD, PENRITH NSW 2750
PH. No. (02) 4722 8181

FOR: LEGPRO PTY LTD ATF LEGPRO 54 PTY LTD
LEVEL 27 – 19–29 MARTIN PLACE SYDNEY N.S.W 2000
PH: 92521111
- THE PROPOSED WORKS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SEWERAGE RETICULATION CODE OF AUSTRALIA (WSA 02–2002–2.2 VERSION 3) INCLUDING THE SYDNEY WATER SUPPLEMENT AND APPENDICES AND THE TECHNICAL SPECIFICATION FOR LEAK TIGHT SEWER SYSTEMS (VERSION 8) 17–12–2014. THE CONSTRUCTOR MUST HAVE A COPY OF THESE ON SITE AT ALL TIMES.
- ALL STRUCTURES TO BE CONSTRUCTED TO PROPOSED FINISHED SURFACE LEVELS. ALL LEVELS REFER TO PROPOSED FINISHED SURFACE LEVEL.
SEWER CONSTRUCTOR TO LIASE WITH ROAD AND/OR CIVIL CONTRACTOR TO VERIFY ALL LEVELS IN PARTICULAR IN OR ADJACENT TO ROADS. PROJECT SUPERVISOR/DESIGNER TO BE INFORMED OF ANY DISCREPANCIES.
- ALL BUILDING LAYOUTS, FINISHED SURFACE LEVELS, STORMWATER INFORMATION, AND GENERAL CIVIL ENGINEERING DETAILS TAKEN FROM J.WYNDHAM PRINCE ENGINEERING PLANS REFERENCE DRAFT PLANS 110358/CC204 REVISION 'A' DATED '18-05-2017'
- THE MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE SEWERAGE CODE OF AUSTRALIA ARE:
IF SAND/CEMENT BACKFILL IS USED AT ROAD CROSSINGS, THE NUMBER OF TRENCHFILL COMPACTION TESTS MAY BE REDUCED BY IF THE CONSTRUCTOR PROVIDES DOCUMENTATION FROM THEM SELF AND THE TESTING COMPANY STATING EXTENTS AND COMPLIANCE.

PIPE EMBEDMENT ZONE: TESTS REQUIRED (SEE NOTES A & B)

TRENCH FILL ZONE (TRAFFICABLE): TESTS REQUIRED

TRENCH FILL ZONE (NON TRAFFICABLE): TESTS REQUIRED

TRENCH FILL ZONE (MAINTENANCE STRUCTURES): TESTS REQUIRED

TRENCH FILL ZONE – TOTAL: TESTS REQUIRED

PIPE EMBEDMENT COMPACTION

(NUMBER OF TESTS TO BE VERIFIED BY ACCREDITED FIELD TESTER. NUMBER ABOVE ARE A GUIDE ONLY.)

A). FOR RETICULATION SEWERS (UP TO DN300), NO COMPACTION TEST IS REQUIRED PROVIDED THAT 7mm, 10mm OR 14mm NOMINAL SINGLE-SIZE AGGREGATES ARE PLACED, SPREAD, AND TAMPED IN LAYERS NOT GREATER THAN 200mm TO FILL UP ALL THE VOIDS AROUND THE PIPE. SYDNEY WATER APPROVAL IS REQUIRED FOR SEWERS LARGER THAN DN300 PRIOR TO CONSTRUCTION. THE CONSTRUCTOR IS REQUIRED TO PROVIDE EVIDENCE THAT THE CORRECT SIZE AGGREGATE HAS BEEN USED OVER THE ENTIRE TRENCH AREA. THIS MAY BE IN THE FORM OF DELIVERY DOCKETS.

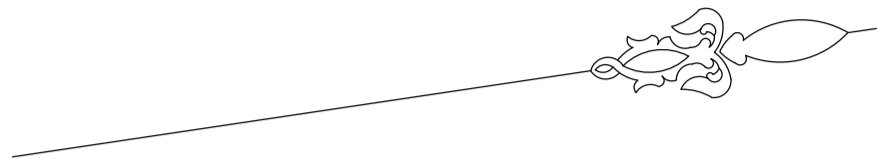
B). IF EMBEDMENT MATERIAL OTHER THAN SINGLE-SIZE AGGREGATES ARE USED, COMPACTION TESTS EITHER IN THE FORM OF PRE-QUALIFICATION TESTING OR IN SITU TESTING AS NOMINATED IN THE CODE SHALL BE UNDERTAKEN FOR ALL SEWERS.

NOTE: A HIGHER LEVEL OF COMPACTION MAY BE REQUIRED TO COMPLY WHICH THE CONSTRUCTOR WILL HAVE TO LIASE WITH THE CIVIL CONTRACTOR OR COUNCILS SPECIFICATION.
- ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
- THE REVIEW OF ENVIRONMENTAL FACTORS IS AN INTEGRAL PART OF THIS DESIGN AND MUST BE READ IN CONJUNCTION WITH THIS PLAN.
- PRIOR TO ANY EXCAVATION THE CONSTRUCTOR MUST HAVE A CURRENT COPY OF THE UNDERGROUND SERVICES REPORT WHICH IS TO BE READ IN CONJUNCTION WITH THIS PLAN.
- SERVICES SHOWN FROM 'DIAL BEFORE YOU DIG' SERVICES SEARCH ARE INDICATIVE ONLY. AUTHENTICITY AND ACCURACY SHOULD NOT BE PRESUMED AND SHOULD BE CONFIRMED BY THE CONSTRUCTOR PRIOR TO ANY EXCAVATION WORKS ON SITE.
- BUILDING OVER/ADJACENT TO SEWER – CONDITIONS MAY APPLY. REFER TO QALCHEK FOR DETAILS.
- ALL EXCAVATION, SHORING EXCAVATION AND STABILITY OF ADJACENT STRUCTURES/SERVICES/DWELLINGS IS THE RESPONSIBILITY OF THE CONSTRUCTOR. USE OF SHORING BOXES IS NOT A FORM OF STABILITY CONTROL, NEITHER IS SAND CEMENT BACKFILL OR CONCRETE ENCASEMENT.
- ALL JUNCTIONS FOR THE PCS'S ARE TO BE LOCATED 0.7m MIN. OFF THE DOWNSTREAM PROPERTY BOUNDARY (CURRENT AND FUTURE) OR DOWNSTREAM EASEMENT BOUNDARY OR 1.0m MIN. OFF THE DOWNSTREAM STRUCTURE.
● DENOTES STANDARD PCS CONNECTION (REFER DTC–2120 ISSUE A DATE 18.03.15)
- IT IS THE CONSTRUCTORS RESPONSIBILITY TO PROVIDE THE CHAINAGES FOR THE PCS'S, THE LENGTH OF THE PCS'S, THE TYPE OF CONNECTION USED, THE LENGTH OF THE IO AND THE INVERT LEVEL AT THE PCP (IF APPLICABLE) TO THE WSC FOR WORK AS CONSTRUCTED PURPOSES.
- THE TOTAL LENGTH OF THE DN100 PCS'S EXCLUDING RISERS IS APPROXIMATELY 103.00m. PCS'S TO HAVE MINIMUM STIFFNESS RATING OF SN10. JOINTING TO BE SOLVENT WELDED.
- CONSTRUCTOR TO ENSURE THAT WORKS ARE CONSTRUCTED IN ACCORDANCE WITH SYDNEY WATER'S DEEMED TO COMPLY DRAWINGS:
– FOR ALL MH'S DTC–2000 (ISSUE C 18–03–15), DTC–2220 (ISSUE D 18–03–15), DTC–2221 (ISSUE B 01.03.13), DTC–2222 (ISSUE C 18–03–15),
– FOR MH'S WHERE DEPTH TO IL IS 1.2m–6m, SEWERS =DN300 OR <DN300 IN A RESIDENTIAL AREA NOT SUBJECT TO VEHICULAR WHEEL LOADS USE DTC–2203 (ISSUE B 18–03–15)
- PIPES TO BE CONCRETE ENCASED SHOWN ACCORDINGLY:– REFER TO SEW–1205–V

EACH SECTION OF PIPE SHALL BE CONCRETE ENCASED IN THE FOLLOWING MANNER
EACH PIPE JOINT REQUIRES A 12mm THICK COMPRESSIBLE MEMBRANE TO BE INSERTED
EACH PIPE JOINT IS REQUIRED TO HAVE 2 R16 DOWEL PINS, ONE EITHER SIDE OF THE PIPE,
DOWEL PINS ARE TO BE CENTRALLY PLACED IN CONCRETE WITH A MINIMUM BAR LENGTH OF 600mm
THE DOWEL PIN IS TO BE EITHER GALVANISED OR STAINLESS STEEL
AT THE ENDS OF EACH SECTION OF ENCASEMENT A 600mm ROCKER PIPE IS TO BE INSTALLED.
- AREAS HATCHED THUS NOT DRAINED:–
- ALL M.S.'s TO CONFORM TO WSA–137, "INDUSTRY STANDARD FOR MAINTENANCE SHAFTS AND MAINTENANCE CHAMBERS FOR SEWERAGE".

B	LOT LAYOUT REVISED	M.P	08.11.18
A	DRAFT	M.P	02.11.18
No.	AMENDMENT DESCRIPTION	BY	DATE

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION		UTILITIES				WORK AS CONSTRUCTED CERTIFICATION				PIPE SCHEDULE				AUSTRALIAN HEIGHT DATUM		NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.		Sydney WATER SYDNEY WATER CORPORATION			
PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :- DIAL BEFORE YOU DIG Ph. 1100 ELECTRICITY, ENDEAVOUR ENERGY Ph. 131 003 GAS JEMENA GAS Ph. 1300 880 908 TELECOMMUNICATIONS TELSTRA Ph. 1800 114 918 SYDNEY WATER Ph. 132 092 GIVING AT LEAST 48 HOURS NOTICE.		TYPE	DATE	REF.	TYPE	DATE	REF.	DEVELOPER	DESIGNER	SIZE DN	TYPE	CLASS	LENGTH							PIPE JOINTING METHOD / NOTES	SCALES
		WATER: DN100 Water	Feb'17	Qalchek	P.M 20623		Sept'17	SCIMS	WATER SERVICE CO-ORDINATOR		150	U.P.V.C	SN8			PLAN 1:500 SECTION { HOR. 1:500 VERT. 1:125		184 K4 (42nd Ed.)		PENRITH SEWERAGE	
		PROP STORMWATER: SWD	Feb'17	Jwp					CONSTRUCTOR COMPLETED	W.A.C. PREPARED						CROSS SECTIONS				DRAINS TO ST MARYS S.T.P	
																NATURAL					
											DESIGN HEAD	m			NO BOUNDARY TRAPS REQUIRED.	LENGTHS, DEPTHS & LEVELS ARE IN METRES.					
									I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.									SHEET 1 OF		File No. N/A	
		</																			



B	LOT LAYOUT REVISED	M.P	08.11.18
A	DRAFT	M.P	02.11.18
No.	AMENDMENT DESCRIPTION	BY	DATE

FILE LOCATION: PM21123WW-B DESIGNED: M.P DRAFTED: M.P VERIFIED: M.P REVIEWED: D.L APPROVED: D.L ISSUED: 08-11-2018

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	W.S.C.	Sydney WATER	
CONSTRUCTOR	COMPLETED	Case No. 174096WW SHT 2 OF SHTS.	
W.A.C. PREPARED		SYDNEY WATER CORPORATION	
DESIGNER	I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	FOR DETAILS OF SERVICES SEE SHEET 1	