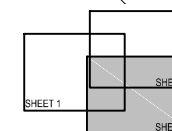
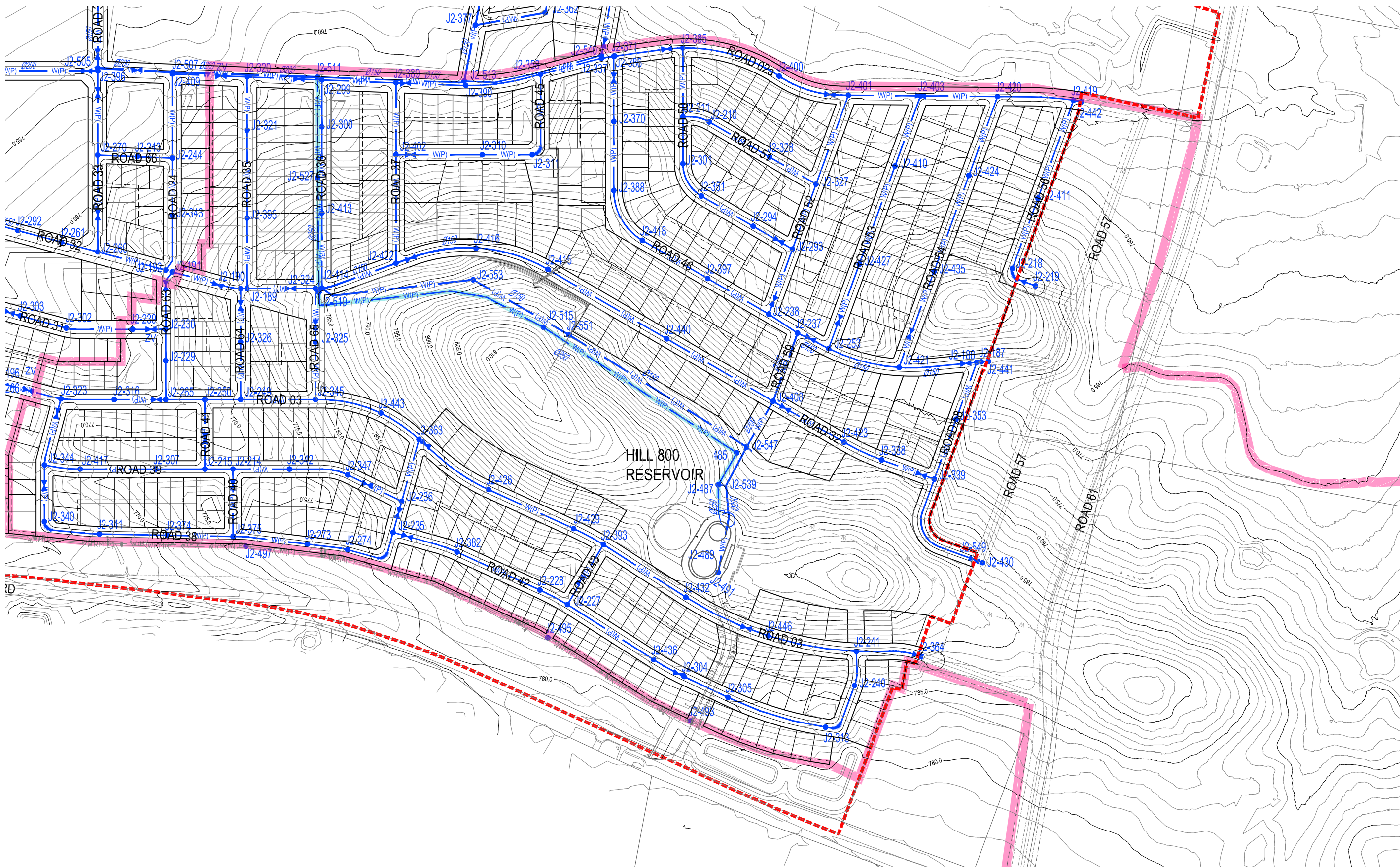




FOR CONTINUATION REFER 16-001756-D201+



KEY PLAN

NOTE

- FOR NOTES & TABLES REFER 16-001756-D204+
- FOR LEGEND REFER 16-001756-D201+

FIRST ISSUE A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KK KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MM MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NN NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VV VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ	DESIGN BC YVB 23/03/2017 AMENDMENT DETAILS 29/09/2017 OPRC COMMENTS ADDRESSED	WRE No. PROJECT No.	A3 PLOT SCALE (METRES) 1:4000 20 10 0 20 40 60 80 100 A1 PLOT 1:2000	CLIENT GOOGONG NORTH NEIGHBOURHOOD 2 DA SUBMISSION	PROJECT GOOGONG NORTH NEIGHBOURHOOD 2 DA SUBMISSION	DRAWING TITLE POTABLE WATER CONCEPT MASTER PLAN SHEET 2 DRAWING NUMBER 16-001756-D202+ AMEND. A
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Label	Elevation (m)	Demand (L/s)	Pressure (Minimum) (m H2O)	Pressure (Maximum) (m H2O)
J2-553	793.09	0	28.3	40.2
J2-551	799.18	0	22.3	34.1
J2-547	783.27	0	38.3	50
J2-446	792.42	0.14	28.5	40.8
J2-443	786.18	0.06	34.9	47.1
J2-442	753.71	0	67.5	79.5
J2-441	773.94	0	47.1	59.3
J2-440	782.38	0.22	39.1	50.9
J2-436	785.96	0.23	35	47.3
J2-435	776.53	0.16	44.7	56.7
J2-432	793.27	0.14	27.7	40
J2-430	788.36	0	32.9	44.9
J2-429	792.77	0.17	28.2	40.5
J2-427	789.2	0.28	52.1	64
J2-426	792.14	0.19	28.9	41.1
J2-424	761.41	0.23	59.8	71.8
J2-423	780.98	0.12	40.4	52.2
J2-422	785.48	0.12	35.8	47.8
J2-421	774.63	0.16	46.6	58.6
J2-420	754.31	0.09	66.9	78.9
J2-419	753.64	0.02	67.6	79.5
J2-418	773.69	0.21	47.6	59.5
J2-417	768.06	0.17	52.9	65.1
J2-416	785.05	0.09	36.3	48.2
J2-415	784.8	0.1	36.6	48.4
J2-414	784.3	0.02	37	48.9
J2-413	775.85	0.18	45.4	57.4
J2-411	762.49	0.12	58.7	70.7
J2-410	760.02	0.23	61.2	73.2
J2-408	777.37	0.17	44.2	55.8
J2-403	755.34	0.09	65.9	77.8
J2-402	768.71	0.2	52.5	64.5
J2-401	756.07	0.12	65.2	77.1
J2-400	755.45	0.14	65.8	77.7
J2-397	771.77	0.16	49.6	61.4
J2-395	771.31	0.18	49.8	61.9
J2-393	792.14	0.07	28.8	41.1

Label	Elevation (m)	Demand (L/s)	Pressure (Minimum) (m H2O)	Pressure (Maximum) (m H2O)
J2-390	762.62	0.12	58.6	70.6
J2-389	761.86	0.07	59.4	71.3
J2-388	774.33	0.23	47	58.9
J2-386	764.69	0.05	56.6	68.5
J2-385	759.15	0.05	62.1	74
J2-382	784.77	0.21	36.2	48.5
J2-375	774.93	0.07	46.1	58.3
J2-374	770.34	0.1	50.7	62.9
J2-371	764.76	0	56.5	68.4
J2-370	771.74	0.18	49.5	61.5
J2-364	789.93	0.05	31	43.3
J2-363	788.75	0.12	32.3	44.5
J2-358	765.16	0.12	56.1	68
J2-353	774.83	0.07	46.3	58.4
J2-351	769.63	0.13	51.6	63.6
J2-347	778.55	0.14	42.5	54.7
J2-345	778.85	0.14	42.2	54.4
J2-344	766.18	0.09	54.8	67
J2-342	773.46	0.17	47.5	59.7
J2-341	766.37	0.07	54.6	66.8
J2-340	764.46	0.07	56.5	68.7
J2-339	783	0.02	38.3	50.2
J2-338	783.42	0.05	37.9	49.8
J2-337	765.41	0.09	55.8	67.8
J2-328	764.32	0.19	56.9	68.9
J2-327	763.13	0.21	58.1	70.1
J2-326	773.5	0.12	47.6	59.7
J2-325	782.31	0.05	38.9	50.9
J2-324	783.84	0.05	37.4	49.4
J2-323	767.93	0.16	53.1	65.3
J2-321	762.46	0.19	58.7	70.7
J2-320	758.84	0.06	62.3	74.3
J2-316	767.36	0.12	53.7	65.8
J2-313	783.84	0.18	37.1	49.4
J2-311	768.3	0.13	52.8	64.9
J2-310	768.72	0.16	52.5	64.5
J2-307	771.02	0.17	50	62.2

NOTES:

1. BASIS OF DESIGN: WATER SUPPLY CODE OF AUSTRALIA, WSA 03-2011 3RD ED, VER 3.1, WATER SERVICES ASSOCIATION OF AUSTRALIA.
2. DEMAND RATES REFERENCE GOOGONG DESIGN ASSUMPTIONS FOR POTABLE AND RECYCLED WATER SYSTEMS MWH (AUGUST 2014, REV 7).
3. WATER MAINS 100mm DIAMETER UNLESS NOTED OTHERWISE
4. WATER MAIN MATERIAL PVC-M PN16, COLEBROOK WHITE COEFFICIENT 0.3mm.
5. ALL NODES WITHIN NETWORK TO ACHIEVE A MINIMUM 20m PRESSURE HEAD IN RESIDENTIAL AREAS AND 25m PRESSURE HEAD IN COMMERCIAL AREAS.
6. STOP VALVE LOCATIONS BASED ON NOMINAL 40 ALOTMENTS SHUT DOWN PER SECTION. TO BE DETERMINED IN DETAIL DESIGN.
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8. CONTOURS @ 1m INTERVALS.
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11. PRESSURE RESULTS BASED ON A MINIMUM AND MAXIMUM RESERVOIR LEVELS OF 793.33m (BWL) AND 800.00m (TWL) AT HILL 800 SITE.
12. CALCULATIONS CARRIED OUT BY WATERGEMS V8 HYDRAULIC MODEL.
13. HIGH ZONE JUNCTION ARE NOTED BY **YELLOW HIGHLIGHT**.

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS	WFE No.	A3 PLOT	SCALE (METRES)	A1 PLOT	CLIENT	PROJECT	DRAWING TITLE	DRAWING NUMBER	AMEND.		
	BC	YVB			23/03/2017												
AMENDMENTS	A	BC	EC			29/09/2017	OPRC COMMENTS ADDRESSED						GOOGONG NORTH NEIGHBOURHOOD 2 DA SUBMISSION		©2017 www.calbreconsulting.co	16-001756-D204+	A

Label	Elevation (m)	Demand (L/s)	Pressure (Minimum) (m H2O)	Pressure (Maximum) (m H2O)
J2-305	785.12	0.14	35.8	48.1
J2-304	785.63	0.09	35.3	47.6
J2-301	770.88	0.08	50.4	62.3
J2-300	763.22	0.19	58	70
J2-299	761.02	0.05	60.2	72.2
J2-294	766.33	0.14	54.9	66.9
J2-293	765.99	0.14	55.3	67.2
J2-274	779.2	0.05	41.8	54
J2-273	777.79	0.07	43.2	55.4
J2-265	766.88	0.09	54.2	66.3
J2-253	770.02	0.12	51.4	63.2
J2-250	767.96	0.05	53.1	65.2
J2-249	770.68	0.14	50.4	62.5
J2-241	789.94	0.07	31	43.3
J2-240	786.46	0.14	34.5	46.8
J2-238	768.46	0.09	52.9	64.7
J2-237	768.83	0.09	52.6	64.4
J2-236	783.14	0.09	37.9	50.1
J2-235	781.41	0.09	39.6	51.8
J2-230	766.29	0.06	54.8	66.9
J2-229	766.57	0.12	54.5	66.6
J2-228	787.19	0.19	33.8	46
J2-227	786.9	0.14	34.1	46.3
J2-219	773.04	0	48.2	60.2
J2-218	773.24	0.09	48	60
J2-215	771.39	0.09	49.6	61.8
J2-214	771.6	0.09	49.4	61.6
J2-211	766.68	0.07	54.6	66.5
J2-210	765.89	0.12	55.4	67.3
J2-191	768.96	0.05	52.1	64.2
J2-190	776.26	0.09	44.9	57
J2-189	776.94	0.05	44.2	56.3
J2-188	774.04	0	47	59.2
J2-187	774	0	47.1	59.2
J2-557	762.31	0	28.6	37.6
J2-555	759.88	0	31.1	40
J2-549	789.68	0	32	43.6
J2-540	765.28	0	25.6	34.6

Label	Elevation (m)	Demand (L/s)	Pressure (Minimum) (m H2O)	Pressure (Maximum) (m H2O)
J2-533	754.97	0	35.9	44.9
J2-531	740.98	0	49.1	58.9
J2-527	771.03	0	20.5	28.9
J2-521	744.65	0	45.5	55.2
J2-519	785.34	0	6.5	14.6
J2-515	784.7	0	7.6	15.3
J2-513	762.45	0	28.5	37.5
J2-511	761.82	0	29.5	38.1
J2-507	756.47	0	34.5	43.4
J2-505	754.4	0	36.4	45.5
J2-501	762.11	0	29	37.8
J2-499	761.03	0	30.5	38.9
J2-497	775.93	0	16.2	24
J2-495	783.19	0	9.5	16.8
J2-493	781.9	0	11.1	18.1
J2-491	790	0	3.3	10
J2-489	790	0	3.2	10
J2-487	790.76	0	2.1	9.2
J2-485	777.26	0	15.5	22.7
J2-461	751.16	0	39.2	48.7
J2-457	748.85	0	41.4	51
J2-453	750.47	0	40.2	49.4
J2-449	755.43	0	35.4	44.5
J2-447	748.69	0	41.7	51.2
J2-445	751.58	0.33	39.2	48.3
J2-439	748.15	0	42.1	51.7
J2-438	746.66	0	43.7	53.2
J2-437	753.84	0	36.6	46.1
J2-412	747.22	0	43.3	52.7
J2-409	756.52	0.14	34.4	43.4
J2-407	761.99	0.18	29.1	38.3
J2-406	761.37	0.06	29.5	38.5
J2-405	750.91	0	39.8	49
J2-404	751.04	0.23	39.1	48.9
J2-399	758.48	0.09	34.3	43.4
J2-398	753.07	0.23	37.4	46.8
J2-396	754.53	2.34	36.3	45.4
J2-394	748.85	0.67	41.4	51

NOTES:

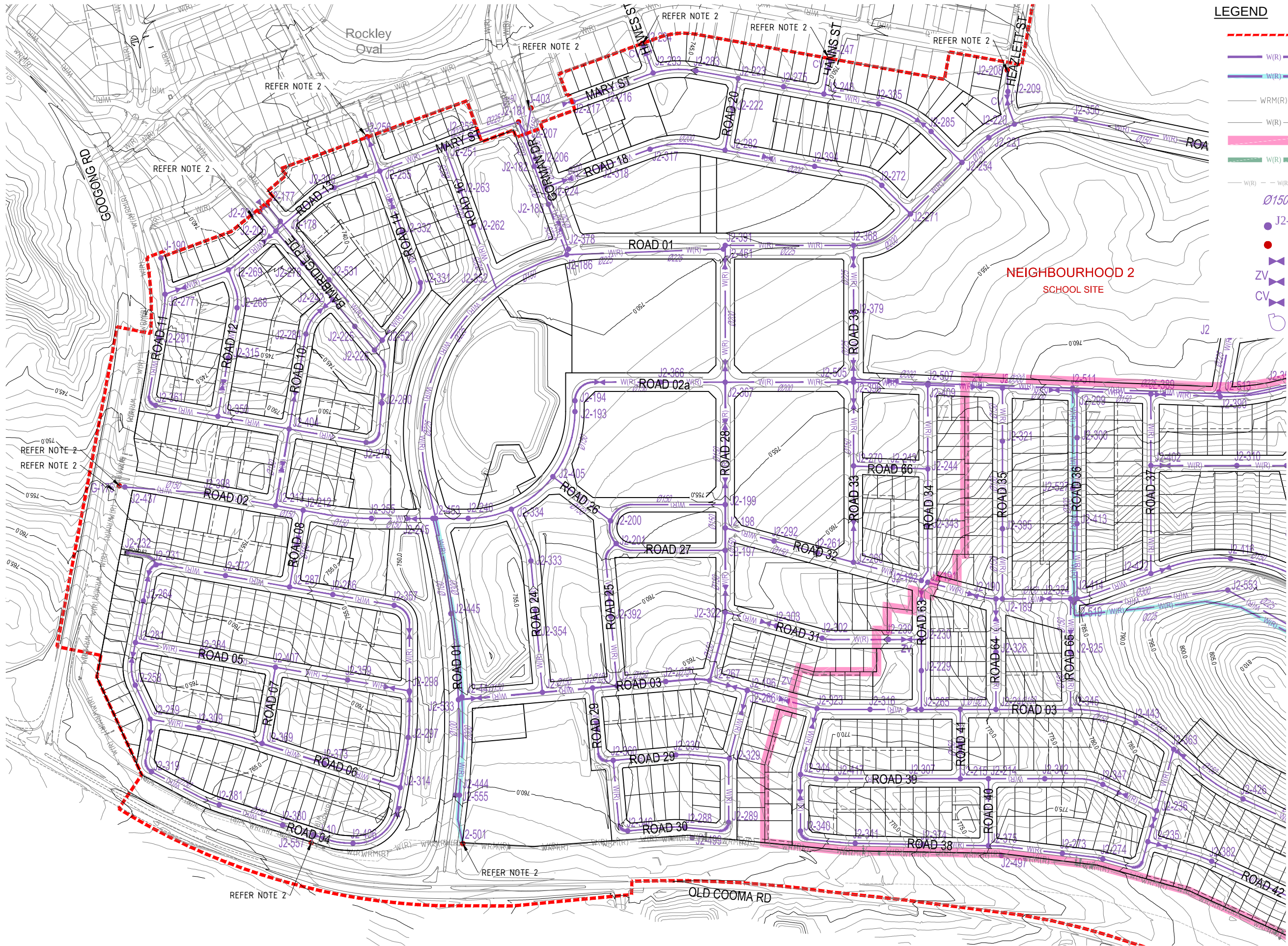
1. BASIS OF DESIGN: WATER SUPPLY CODE OF AUSTRALIA, WSA 03-2011 3RD ED, VER 3.1, WATER SERVICES ASSOCIATION OF AUSTRALIA.
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AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS	WFE No.	A3 PLOT	SCALE (METRES)	A1 PLOT	CLIENT		PROJECT GOOGONG NORTH NEIGHBOURHOOD 2 DA SUBMISSION		DRAWING TITLE POTABLE WATER CONCEPT DATA SHEET 2	DRAWING NUMBER 16-001756-D205+	AMEND. A
	BC	YVB	SM	PS	23/03/2017													
A	BC	IC	KL	JP	29/09/2017	OPRC COMMENTS ADDRESSED												

Node	Elevation (m)	Demand (L/s)	Pressure (Minimum) (m H ₂ O)	Pressure (Maximum) (m H ₂ O)
J2-322	766.23	3.07	50.5	39.7
J2-319	766.53	3.05	54.2	33.4
J2-318	745.20	3.59	44.0	54.6
J2-317	745.96	0.1	44.3	54
J2-315	744.94	3.16	45.4	54.9
J2-314	759.19	3.05	51.3	40.4
J2-312	756.67	1.87	54.3	43.2
J2-309	766.24	3.19	54.3	33.6
J2-308	748.36	3	47.2	51.5
J2-306	746.87	3.17	46.2	50
J2-305	761.36	3.18	29.5	38.6
J2-302	762.96	0.2	27.3	37
J2-298	755.62	3.07	35	22.3
J2-297	756.02	3.07	32.0	41.9
J2-296	748.06	3.02	41.6	50.2
J2-295	748.83	3.05	41.8	51.1
J2-292	757.64	3.05	57.8	42
J2-291	745.9	3.09	44.2	54
J2-290	763.1	3.09	27.5	36.7
J2-289	762.07	3.12	28.7	37.9
J2-288	761.24	3.06	29.4	32.6
J2-287	756.66	3.14	34.9	44.2
J2-286	754.16	3.14	36.2	45.5
J2-285	751.65	0.2	36.7	48.2
J2-284	743.25	3.16	46.4	56.1
J2-283	745.1	3.07	45.1	54.6
J2-282	746.68	3.02	43.5	53.2
J2-281	762.67	3.07	27	36.3
J2-280	747.19	3.06	43	52.7
J2-279	746.06	3.17	41.2	50.2
J2-278	746.17	3.14	40.0	50.8
J2-277	741.83	3.02	47.2	57
J2-275	747.92	3.12	42.3	52
J2-274	750.55	3.14	39.8	49.3
J2-271	751.93	3	38.5	48
J2-270	757.58	3.02	52.2	42.3
J2-269	741.23	3.11	48.9	52.7
J2-268	742.43	3.14	47.7	57.4

1. BASIS OF DESIGN: WATER SUPPLY CODE OF AUSTRALIA, WSA 03-2011 3RD ED, VER 3.1, WATER SERVICES ASSOCIATION OF AUSTRALIA.
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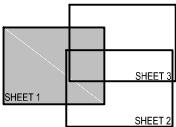
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LEGEND

- NEIGHBOURHOOD BOUNDARY
- W(R) RECYCLED WATER RETICULATION
- W(R) RECYCLED WATER TRUNK MAIN
- WRM(R) EXISTING WATER RISING RETICULATION MAIN
- W(R) EXISTING RECYCLED WATER
- HIGH ZONE BOUNDARY
- GOOGONG COMMON RECYCLED WATER TRUNK MAIN
- W(R) FUTURE RECYCLED WATER
- Ø150 RECYCLED WATER PIPE SIZE
- J2-412 NODE
- CONNECT TO EXISTING NODE
- STOP VALVE
- ZV ZONE VALVE
- CV CHECK VALVE
- BOOSTER PUMP STATION

FOR CONTINUATION REFER 16-001756-D212+



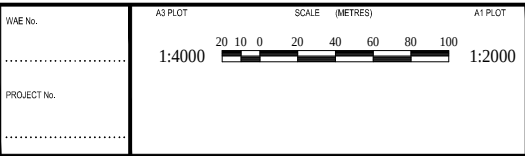
KEY PLAN

NOTE

- FOR NOTES & TABLES REFER 16-001756-D214+
- CONNECT TO EXISTING

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE
JM	YVB				23/03/2017
AMENDMENT DETAILS					
A	BC	IC			29/09/2017
OPRC COMMENTS ADDRESSED					

WRE No.	
PROJECT No.	



CLIENT

GOOGONG NORTH NEIGHBOURHOOD 2

DA SUBMISSION

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DRAWING TITLE

RECYCLED WATER CONCEPT MASTER PLAN - SHEET 1 OF 3

DRAWING NUMBER

16-001756-D211+

AMEND.

A



1. FOR NOTES & TABLES REFER
16-001756-D214+
2. CONNECT TO EXISITNG
3. FOR LEGEND REFER 16-001756-D211+

AMENDMENT DETAILS

PROJECT No. _____



PROJECT



www.calibreconsulting.co

DRAWING TITLE

END.
A