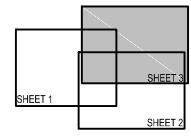


FOR CONTINUATION REFER 16-001756-D211+

FOR CONTINUATION REFER 16-001756-D212+



- NOTE**
1. FOR NOTES & TABLES REFER 16-001756-D214+
 2. CONNECT TO EXISTING
 3. FOR LEGEND REFER 16-001756-D214+

REVISIONS		DESIGN		DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS	
1		J	YVB				23/03/2017		
SHEET 1		SHEET 2		SHEET 3					
A		BC		KC		29/06/2017		OPRC COMMENTS ADDRESSED	

WRE No.	A3 PLOT	SCALE (METRES)	A1 PLOT	CLIENT	PROJECT
	1:4000	20 10 0 20 40 60 80 100	1:2000		GOOGONG NORTH NEIGHBOURHOOD 2 DA SUBMISSION
PROJECT No.	GOOGONG NORTH NEIGHBOURHOOD 2 DA SUBMISSION				©2017

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



DRAWING TITLE		DRAWING NUMBER		AMEND.	
RECYCLED WATER CONCEPT MASTER PLAN SHEET 3		16-001756-D213+		A	

Demand (L/s)	Pressure (Min) (m H2O)	Pressure (Max) (m H2O)	Fire Flow (Needed) (L/s)	Pressure (Total Flow Needed) (m H2O)
0	40.2	49.3	30	41.6
0.14	36.7	45.5	10	37.5
0.49	27.6	37.2	10	28.9
0.5	39.8	48.9	30	41.2
0.21	25.9	35.2	10	27.7
0.21	27.5	36.8	10	29.5
0.05	38.4	47.2	30	39.7
0.03	42.9	52.5	30	44.6
0.21	31.5	40	30	32.1
0.04	42.7	51.5	30	43.2
0.53	26.9	36.5	10	28.2
0.47	33.8	43.5	10	35.3
0.37	25.4	35	10	27
0	38.3	47.3	30	39.7
0	38.4	47.4	30	39.7
0.67	39.4	48.4	30	40.1
0.27	34.8	43.6	10	35.8
0.28	29.6	38.2	10	30.7
0.34	41.9	51.9	10	43.6
0.13	31.5	40.7	10	31.2
0.5	32.3	41.9	10	33.7
0.2	37.6	47.2	10	38.9
0	41.2	50.2	30	41.2
0.23	37.7	47.1	10	39.7
0	35	44.1	30	31.6
0	42.1	51.7	10	44.4
0.23	40.4	50.4	10	42.5
0.09	30.5	39.7	10	29.3
0.38	26	34.7	10	26.9
0.21	30.5	39.1	10	31.5
0.37	39.6	48.9	10	40.7
0	39.6	48.7	30	38.9
0.18	36.8	45.9	30	33.1
0.58	45.3	55.4	10	47.3
0.17	44.3	54.3	10	46.1
0.37	28.4	37.5	10	27.3
0.32	25.9	35	10	24.5
0.03	30.7	39.7	30	31.1

Label	Elevation (m)	Demand (L/s)	Pressure (Min) (m H2O)	Pressure (Max) (m H2O)	Fire Flow (Needed) (L/s)	Pressure (Total Flow Needed) (m H2O)
J2-319	766.53	0.11	24.1	33.4	10	25.8
J2-318	745.29	0.26	45.1	54.6	10	47.2
J2-317	745.85	0.07	44.6	54	10	46.7
J2-315	744.94	0.3	44.9	54.9	10	46.7
J2-314	759.39	0.18	31	40.5	10	32.6
J2-312	756.67	0.64	34.1	43.2	30	35.1
J2-309	766.34	0.37	24	33.6	10	25.5
J2-308	748.36	0	42.4	51.5	10	43.8
J2-306	740.87	0.4	49	59	10	51.1
J2-303	761.36	0.2	29.5	38.6	10	29.9
J2-302	762.96	0.24	27.9	37	10	27.1
J2-298	755.62	1.15	34.7	44.3	10	36.2
J2-297	758.02	0.42	32.3	41.9	10	33.7
J2-296	749.06	0.04	41.9	50.8	10	43.3
J2-295	748.83	0.09	42.2	51.1	10	43.6
J2-292	757.94	0.02	33.1	42	30	33.7
J2-291	745.9	0.17	43.9	54	10	45.8
J2-290	763.7	0.17	27.7	36.7	10	28.1
J2-289	762.07	0.24	28.7	37.9	10	27.2
J2-288	761.34	0.11	29.4	38.6	10	28
J2-287	755.68	0.37	34.6	44.2	10	36.7
J2-286	754.38	0.37	35.9	45.5	10	37.5
J2-285	751.65	0.36	39	48.2	10	40.4
J2-284	743.75	0.31	46.2	56.1	10	48.2
J2-283	745.1	0.51	45.2	54.8	10	46.7
J2-282	746.68	0.01	43.8	53.2	10	45.8
J2-281	763.67	0.11	26.6	36.2	10	28.3
J2-280	747.19	0.58	42.7	52.7	10	44.6
J2-279	749.05	0.2	40.9	50.8	10	42.7
J2-278	740.13	0.32	49.7	59.8	10	51.9
J2-277	742.83	0.06	47	57	10	49.1
J2-275	747.92	0.21	42.5	52	10	43.9
J2-272	750.55	0.16	40.2	49.3	10	42
J2-271	751.93	0	38.9	48	10	40.2
J2-270	757.58	0.01	33.6	42.3	10	34.2
J2-269	741.21	0.2	48.6	58.7	10	50.8
J2-268	742.43	0.4	47.4	57.4	10	49.3
J2-267	766.01	0.15	24.9	33.9	30	25.2

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 UPV-C 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.
7. RECYCLED WATER NETWORK ASSUMED TO INCLUDE FIRE FIGHTING HYDRANTS.
8. CONTOURS @ 1m INTERVALS.
9. HYDRANTS TO BE INSTALLED TYPICALLY AT "ALL HIGH AND LOW POINTS" AND AT 60m CENTRES. LOCATIONS WILL BE SHOWN ON DETAIL DESIGN DRAWINGS.
10. STOP VALVES AND HYDRANTS TO BE LOCATED AT ALL TEMPORARY END CAPS.
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 A B C D E F G H I J K L M N O P Q R S	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS	WRE No.	AS PLOT	SCALE (METRES)	AT PLOT	CLIENT	PROJECT GOOGONG NORTH NEIGHBOURHOOD 2 DA SUBMISSION	 ©2017 www.calibreconsulting.co	DRAWING TITLE RECYCLED WATER CONCEPT DATA SHEET 3	DRAWING NUMBER 16-001756-D216+	AMEND. A
	BC	YVB			23/03/2017											
	A	BC	EC			29/06/2017	OPRC COMMENTS ADDRESSED									


Demand (L/s)	Pressure (Min) (m H2O)	Pressure (Max) (m H2O)	Fire Flow (Needed) (L/s)	Pressure (Total Flow Needed) (m H2O)
0.28	23	32	10	23.7
0.28	30.4	40.1	10	31.8
0.15	44.8	54.5	10	47.1
0.18	43.2	52.9	10	45.5
0.06	30.9	39.8	30	31.4
0.29	29.2	38	30	29.6
0.21	22.8	32.3	10	24.5
0.18	23.6	33.2	10	25.2
0.11	47.1	57.3	10	49.6
0.13	46.6	56.7	10	49.1
0	35.7	48.8	30	40.4
0.09	46.6	56.4	10	49
0.21	45.9	55.7	10	48.3
0.13	40.8	50.2	10	42
0.09	40.3	50.3	10	41.2
0	39.8	49	30	39
0	40.9	50.1	30	42.5
0.25	29.9	38.6	10	31.1
0.18	31.3	40.6	10	33.1
0.19	48.2	58.3	10	50.5
0.24	25.7	34.7	10	23.2
0.11	46.8	56.5	10	47.5
0.03	45.8	55.5	10	47.3
0.17	33.4	43	10	33.9
0.22	32.9	42.5	10	34.3
0.04	45.1	55.1	10	47.3
0.1	46.6	56.6	10	48.7
0.03	45.8	55.4	10	48
0.18	44.4	53.8	10	46
0.05	44.4	53.9	10	46.1
0.05	40.1	49.1	30	40.3
0	40.4	49.5	30	40.7
0.09	46.7	56.6	10	48.6
0.17	46.4	56.2	10	48.1
0.28	35.6	45.3	10	37.9
0.24	35.6	45.2	10	37.8

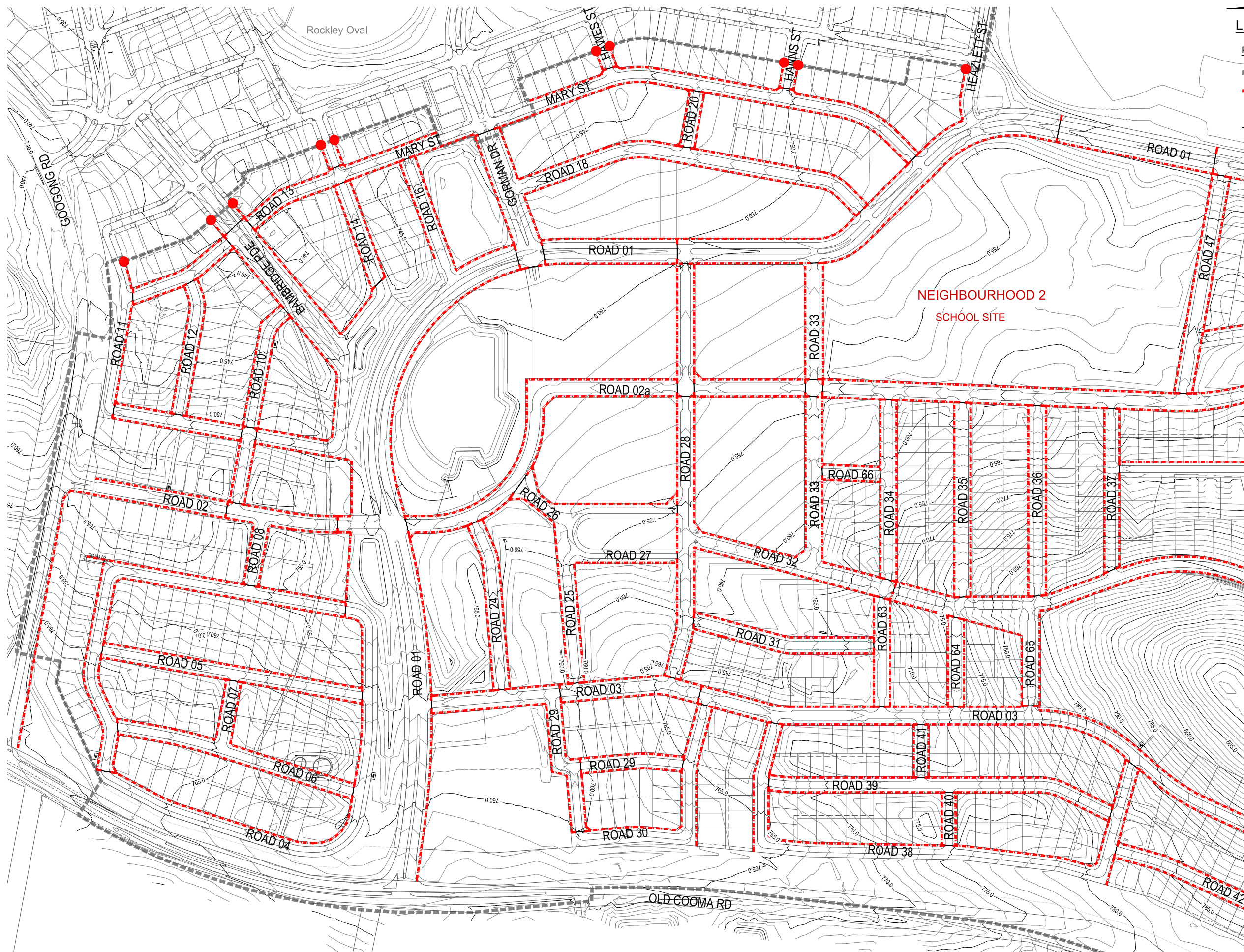
Label	Elevation (m)	Demand (L/s)	Pressure (Min) (m H2O)	Pressure (Max) (m H2O)	Fire Flow (Needed) (L/s)	Pressure (Total Flow Needed) (m H2O)
J2-209	752	0.09	38.9	47.9	10	39.7
J2-208	751.78	0.01	39.1	48.1	10	39.4
J2-207	742.75	0.02	47.2	57.1	10	49.7
J2-206	743.5	0.07	46.7	56.4	10	49
J2-205	739.54	0.04	50.3	60.3	10	52.8
J2-204	739.21	0.2	50.6	60.7	10	52.9
J2-203	738.52	0	32.3	41.4	30	33
J2-202	760.07	0.09	30.8	39.8	30	31.4
J2-201	754.16	0	36.7	45.7	30	36.3
J2-200	753.89	0.3	37	46	30	37.7
J2-199	755.31	0.64	35.6	44.6	30	36.6
J2-198	756.23	0	34.7	43.7	30	35.7
J2-197	757.14	0.04	33.8	42.8	30	34.6
J2-196	767.9	0	22.9	32	10	19.7
J2-194	750.35	0	40.5	49.5	30	40.5
J2-193	750.43	0.6	40.5	49.5	30	40.8
J2-192	768.26	0.13	22.9	31.7	10	23.9
J2-186	748.03	0	42.3	51.9	30	44.1
J2-183	745.57	0	44.6	54.3	10	46.9
J2-182	743.83	0	46.3	56	10	48.7
J2-181	742.91	0	47.1	57	10	49.6
J2-178	739.68	0	50.1	60.2	10	52.6
J2-177	739.34	0	50.5	60.5	10	52.8
J-190	743.26	0.26	46.6	56.6	10	48.7
J-10	762.12	0	28.6	37.8	10	30.6
G-133	764.71	0	25.7	35.2	10	37.9

Label	Elevation (m)	Demand (L/s)	Pressure (Minimum) (m H2O)	Pressure (Maximum) (m H2O)
J2-545	795.03	0	3.2	10.3
J2-544	794.5	0	4.5	10.5
J2-475	801.36	0	1.3	10.1
J2-478	788.36	0	4.7	11.6
J2-471	761.89	0	31	38
J2-467	749.05	11.34	43.7	50.8

NOTES

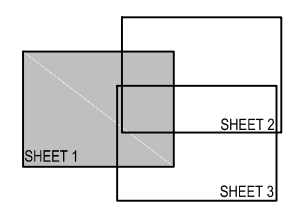
1. BASIS OF DESIGN: WATER SUPPLY CODE OF AUSTRALIA, WSA 03-2011 3RD ED, VER 3.1, WATER SERVICES ASSOCIATION OF AUSTRALIA.
2. DEMAND RATES REFERENCE GOOGONG DESIGN ASSUMPTIONS FOR POTABLE AND RECYCLED WATER SYSTEMS MWH (AUGUST 2014, REV 7).
3. WATER MAINS 100mm DIAMETER UNLESS NOTED OTHERWISE
4. WATER MAIN MATERIAL UPV-C 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.
7. RECYCLED WATER NETWORK ASSUMED TO INCLUDE FIRE FIGHTING HYDRANTS.
8. CONTOURS @ 1m INTERVALS.
9. HYDRANTS TO BE INSTALLED TYPICALLY AT "ALL HIGH AND LOW POINTS" AND AT 60m CENTRES. LOCATIONS WILL BE SHOWN ON DETAIL DESIGN DRAWINGS.
10. STOP VALVES AND HYDRANTS TO BE LOCATED AT ALL TEMPORARY END CAPS.
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**.

AMENDMENT DETAILS						WRE No.	A3 PLOT	SCALE (METRES)	A1 PLOT	CLIENT	PROJECT	DRAWING TITLE			
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE							RECYCLED WATER CONCEPT DATA SHEET 4			
AMENDMENT SHEETS				SM	PS						GOOGONG NORTH NEIGHBOURHOOD 2	©2017	www.calibreconsulting.co		
	A	BC	EC	PS	PS	29/06/2017	QPRC COMMENTS ADDRESSED						DRAWING NUMBER 16-001756-D217+		AMEND. A



- LEGEND**
- PROPOSED**
- NEIGHBOURHOOD BOUNDARY
 - SHARED TRENCH (NBN/GAS/STREETLIGHTING/ELECTRICITY) (EXACT MAKE-UP TO BE CONFIRMED)
 - CONDUIT CROSS TYPICAL
1xNBN100
1xG100
1xE140 OR 2xE140
1xSL50
(SUBJECT TO DETAIL DESIGN)
 - CONNECTION POINT (PRELIMINARY)
 - SUB-STATION (PROPOSED LOCATION ON DESIGN WORK TO DATE)

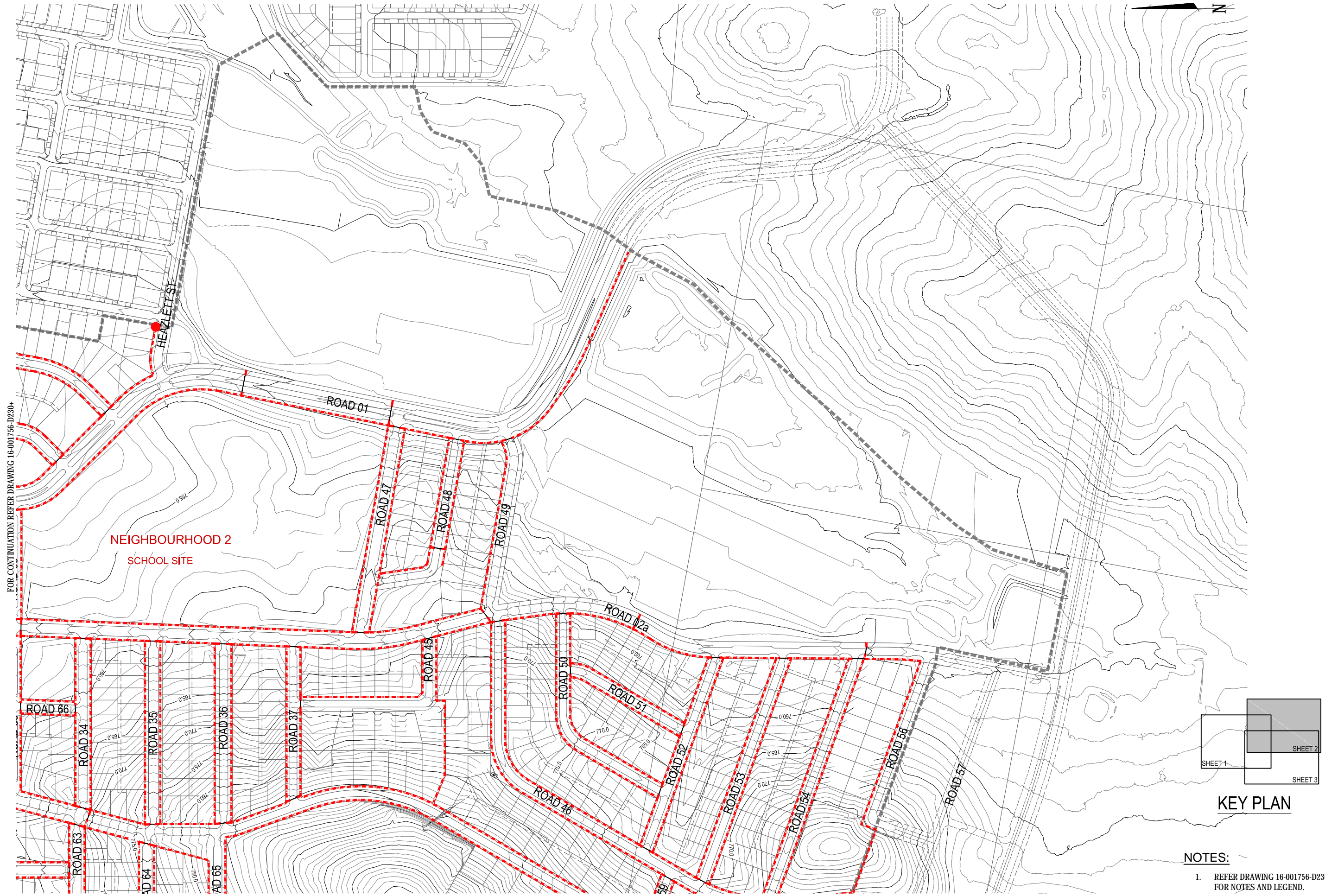
FOR CONTINUATION REFER DRAWING 16-001756-D231+



KEY PLAN

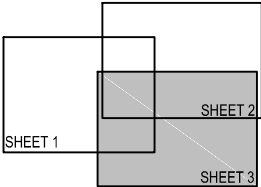
- NOTES:**
- DETAIL DESIGN DRAWING WILL BE PROVIDED AT CONSTRUCTION CERTIFICATE
 - THESE DRAWINGS REPRESENT THE ALIGNMENT RESERVATIONS FOR THE RETICULATION OF POWER, TELECOMMUNICATIONS AND GAS.
 - EXISTING ELECTRICAL AND COMMUNICATIONS TO BE RATIONALISED INTO NEW SUBDIVISION OR RELOCATED CLEAR OF WORKS.
 - CONTOURS AT 1.0m INTERVALS
 - DRAWING EXCLUDES RELOCATION OF TRUNK SERVICES - REFER DRAWINGS 16-001756-D021+ TO D024+

FIRST ISSUE BC VVB 23/03/2017		AMENDMENT DETAILS		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 UTILITY CONCEPT MASTER PLAN - SHEET 1 OF 3		DRAWING NUMBER 16-001756-D230+		AMEND. A	
29/06/2017 OPRC COMMENTS ADDRESSED										©2017 calibre CONSULTING www.calibreconsulting.co							



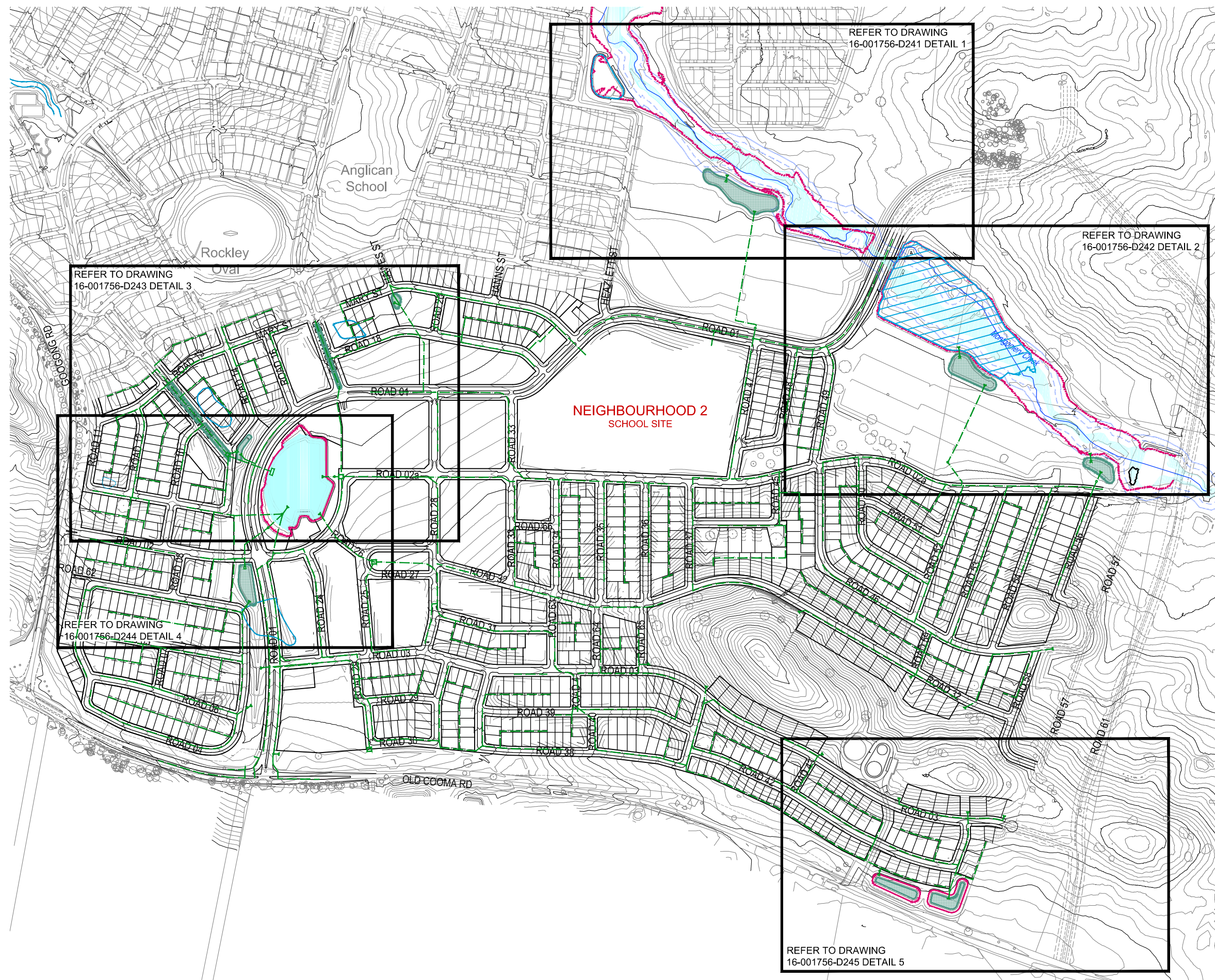
FOR CONTINUATION REFER DRAWING 16-001756-D231+

NEIGHBOURHOOD 2
SCHOOL SITE



















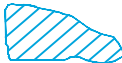





KEY PLAN

NOTES:
1. REFER DRAWING 16-001756-D230+
FOR NOTES AND LEGEND.







LEGEND

- | | |
|---|---|
|  | NEIGHBOURHOOD BOUNDARY |
|  | EXISTING STORMWATER |
|  | EXISTING BASIN/WETLAND |
|  | EXISTING BASIN/WETLAND TO BE REMOVED |
|  | EXISTING DAM |
|  | EXISTING DAM TO BE REMOVED |
|  | RIPARIAN CORRIDOR |
|  | EXISTING TREES |
|  | EXISTING CREEK |
|  | EXISTING 450MMØ RESERVOIR OVERFLOW |
|  | EXISTING 450MMØ RESERVOIR OVERFLOW TO BE DEMOLISHED |
|  | PROPOSED 450MMØ RESERVOIR OVERFLOW PIPE/MANHOLE |
|  | PROPOSED CUTOFF DRAIN/SWALE |
|  | PROPOSED STORMWATER PROPOSED |
|  | PROPOSED STORMWATER STRUCTURE/HEADWALL |
|  | GPT (CDS UNIT) |
|  | BIO-RETENTION BASIN |
|  | PROPOSED WATER QUALITY POND |
|  | DETENTION BASIN C09 |
|  | OUTER 50% CRZ |
|  | INNER 50% CRZ |
|  | Q100 LIMIT |

NOTES:

1. INCLUDES PAST DEVELOPMENT.
2. SUBJECT TO CONFIRMATION IN DETAILED DESIGN.
3. CONTOURS AT 1.0m INTERVALS.

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS		WAE No.	A3 PLOT	SCALE (METRES)	A1 PLOT	CLIENT	PROJECT	DRAWING TITLE
	BC	VVB			23/03/2017				1:7000		1:3500		GOOGONG NORTH NEIGHBOURHOOD 2	WSUD POND KEY PLAN
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	CATCHMENT DETAILS							
BASIN/CATCHMENT	SOUTH-WEST	SOUTH -EAST			NORTHERN			
SUB-CATCHMENTS	WC-1.1, WC-1.2 & WC-2.1	GC-1.1 TO GC-2.3	GC-3.1 TO GC-4.3	GC-5.1	NB-1.1 TO NB-4.1	NG-1.1, NG-2.1 & NG-3.1	NP0, NP-1.1 TO NP-1.5	NM-0 TO NM-7.6
CATCHMENT AREA (Ha)	12.10	28.61	27.84	15.61	11.83	3.90	14.96	86.21
PROPOSED TREATMENT	BIORETENTION BASIN/GPT	BIORETENTION BASIN/GPT	BIORETENTION BASIN/GPT	BIORETENTION BASIN/GPT	BIORETENTION SWALE/ BIORETENTION BASIN	BIORETENTION SWALE	BIORETENTION BASIN/GPT	POND/GPT/ BIORETENTION BASIN
TREATMENT DEVICE NAME	SQID 'G'	SQID 'H'	SQID 'I'	SQID 'J'	SQID 'A' AND SQID 'B'	SQID 'D'	SQID 'E'	SQID 'C' AND SQID 'F'

OVERALL ESTATE PERFORMANCE - NORTH CATCHMENT			
	SUSPENDED SOLIDS	TOTAL NITROGEN	TOTAL PHOSPHOROUS
TARGET RETENTION	80%	65%	65%
ESTIMATED RETENTION	86%	67%	66%

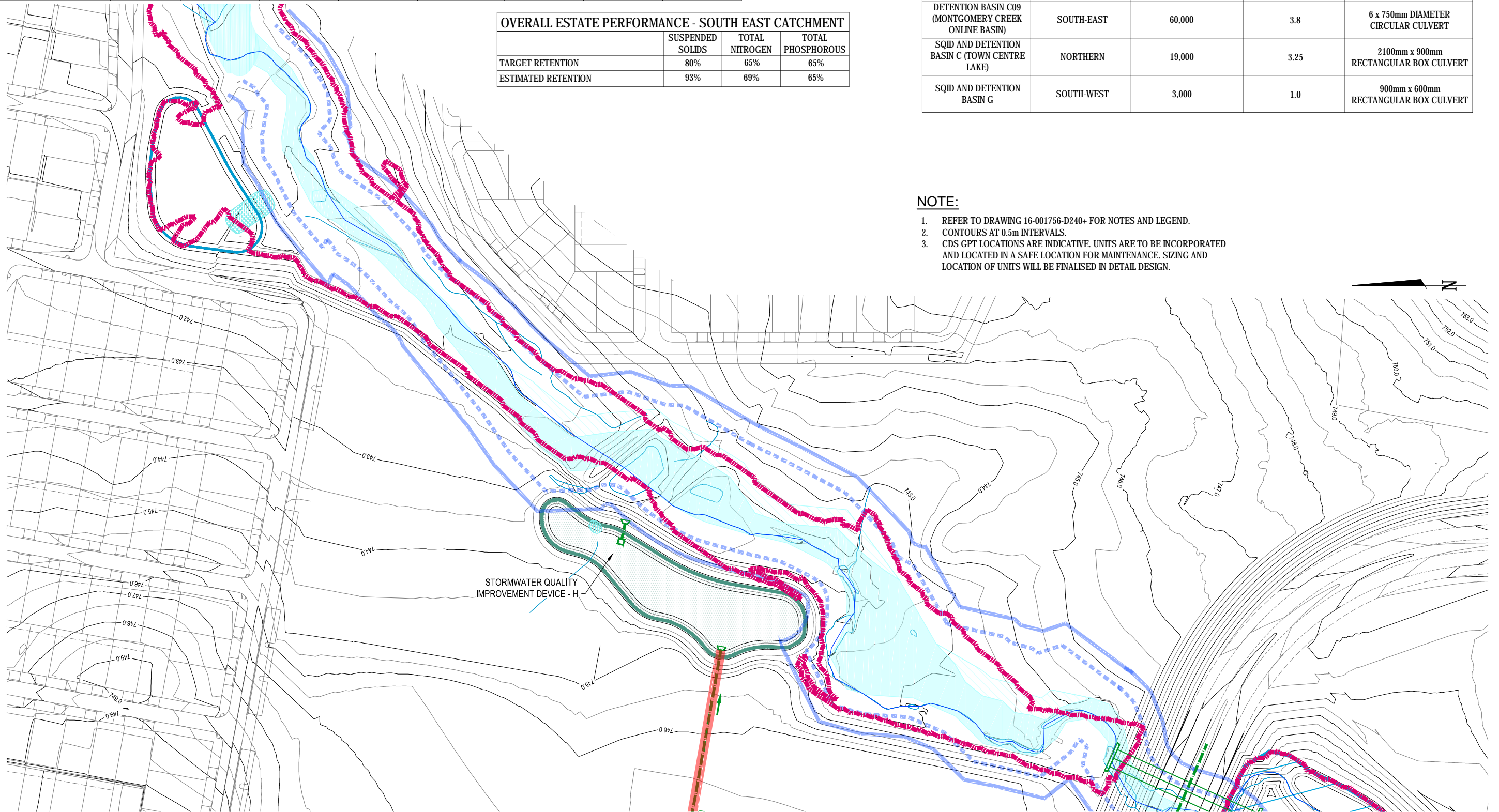
OVERALL ESTATE PERFORMANCE - SOUTH WEST CATCHMENT			
	SUSPENDED SOLIDS	TOTAL NITROGEN	TOTAL PHOSPHOROUS
TARGET RETENTION	80%	65%	65%
ESTIMATED RETENTION	90%	81%	65%




DETENTION BASIN				
DETENTION SYSTEM	CATCHMENT	DETENTION VOLUME (m ³)	TOTAL DEPTH (m)	OUTLET STRUCTURES
DETENTION BASIN C09 (MONTGOMERY CREEK ONLINE BASIN)	SOUTH-EAST	60,000	3.8	6 x 750mm DIAMETER CIRCULAR CULVERT
SQID AND DETENTION BASIN C (TOWN CENTRE LAKE)	NORTHERN	19,000	3.25	2100mm x 900mm RECTANGULAR BOX CULVERT
SQID AND DETENTION BASIN G	SOUTH-WEST	3,000	1.0	900mm x 600mm RECTANGULAR BOX CULVERT

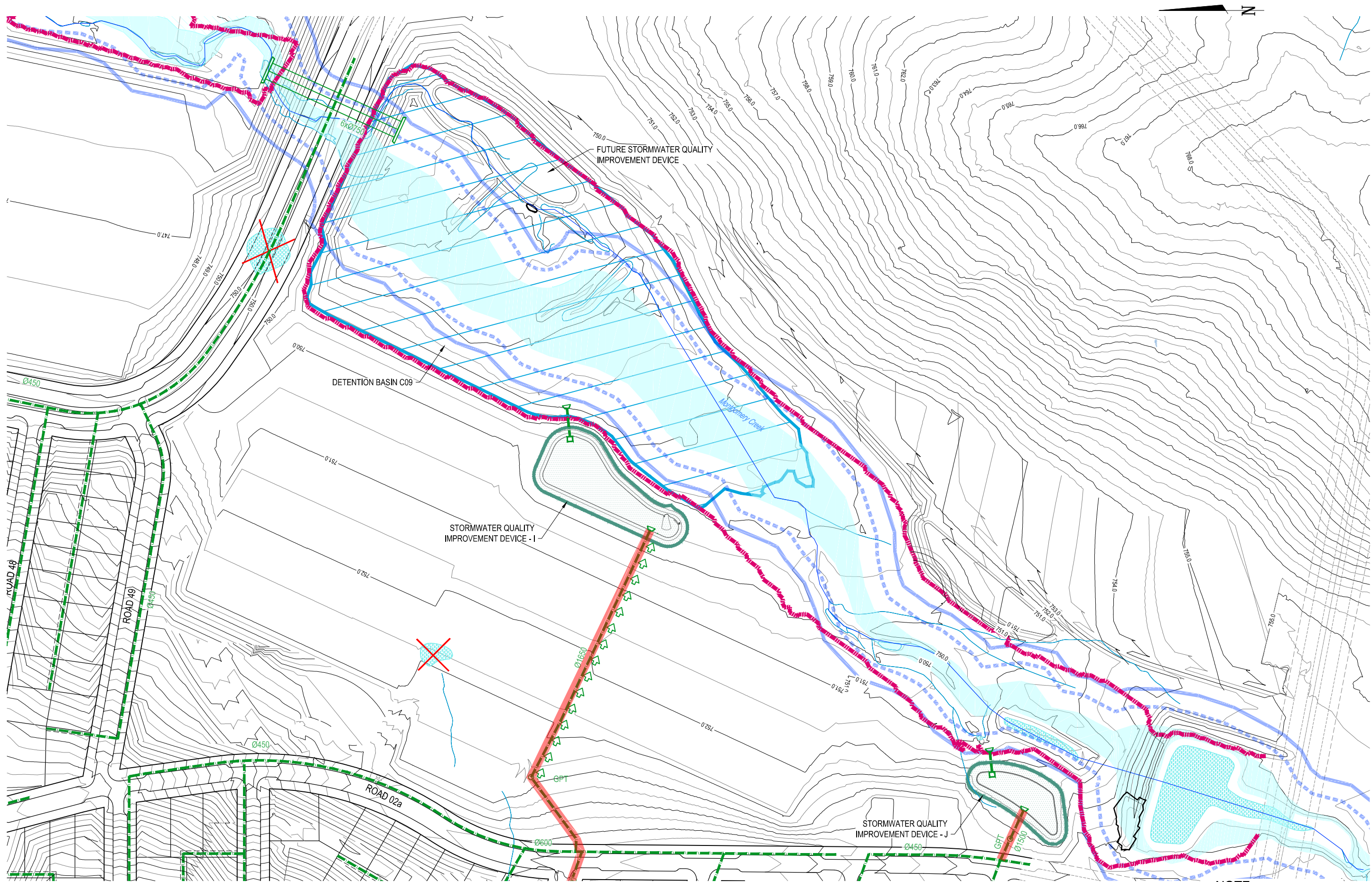
OVERALL ESTATE PERFORMANCE - SOUTH EAST CATCHMENT			
	SUSPENDED SOLIDS	TOTAL NITROGEN	TOTAL PHOSPHOROUS
TARGET RETENTION	80%	65%	65%
ESTIMATED RETENTION	93%	69%	65%

NOTE:

1. REFER TO DRAWING 16-001756-D240- FOR NOTES AND LEGEND.
2. CONTOURS AT 0.5m INTERVALS.
3. CDS GPT LOCATIONS ARE INDICATIVE. UNITS ARE TO BE INCORPORATED AND LOCATED IN A SAFE LOCATION FOR MAINTENANCE. SIZING AND LOCATION OF UNITS WILL BE FINALISED IN DETAIL DESIGN.



FIRST ISSUE	DESIGN BC	DRAWN VVB	CHECK <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DATE 23/03/2017	AMENDMENT DETAILS	WAE No.	A3 PLOT	SCALE (METRES)	A1 PLOT	CLIENT	PROJECT	DRAWING TITLE	
A M E N D M E N T S								1:2000		1:1000		GOOGONG NORTH NEIGHBOURHOOD 2	WSUD POND DETAILS SHEET 1 OF 5	
A	BC	EC	<i>[Signature]</i>	<i>[Signature]</i>	28/09/2017	QPRC COMMENTS ADDRESSED	PROJECT No.					DA SUBMISSION	DRAWING NUMBER 16-001756-D241+	AMEND. A
											© 2017 www.calibreconsulting.co			



- NOTE:**
1. REFER TO DRAWING 16-001756-D240+ FOR NOTES AND LEGEND.
 2. CONTOURS AT 0.5m INTERVALS.

FIRST ISSUE DESIGN: BC, DRAWN: VVB, CHECK: [Signature], APPROVED: [Signature], DATE: 23/03/2017		AMENDMENT DETAILS		WRE No.:		A3 PLOT 1:2000		SCALE (METRES) 10 5 0 10 20 30 40 50		A1 PLOT 1:1000		CLIENT:		PROJECT GOOGONG NORTH NEIGHBOURHOOD 2 DA SUBMISSION		DRAWING TITLE WSUD POND DETAILS SHEET 2		DRAWING NUMBER 16-001756-D242+		AMEND. A	
S. A. BC. KC. [Signature] [Signature] 29/06/2017		QPRC COMMENTS ADDRESSED												©2017 calibre CONSULTING www.calibreconsulting.co							

