

LEGEND

AAV	AIR ADMITTANCE VALVE	IPMF	INDUCT PIPE MICA FLAP	—	SANITARY SERVICE	⊙	FIRE HYDRANT
B	BASIN	LT	LAUNDRY TUB	—	STORMWATER SERVICE	⊞	HOSE REEL
BD	BALCONY DRAIN	LU	LOADING UNIT	---	VENT SERVICE	○	PIPE RISER
BS	BUCKET SINK	MJ/HR	MEGAJOULES PER HOUR	---	COLD WATER SERVICE	◡	PIPE OFFSET
BT	BOUNDARY TRAP	NG	NATURAL GAS	---	HOT WATER SERVICE	⊞	SERVICE TYPE
BTH	BATH	OFG	OVER FLOW GULLEY	---	WARM WATER SERVICE	⊞	SERVICE SIZE
BWU	BOILING WATER UNIT	PAT	PRACTICAL ACTIVITIES TROUGH	---	FIRE HYDRANT SERVICE	△	SERVICE CONNECTION
CH	CONVECTION HEATER	SD	SANITRY DRAINAGE	---	GAS SERVICE	⊞	STOP VALVE
CO	CLEAR OUT	SFW	SEALED FLOOR WASTE	---		⊞	GAS BALL VALVE
CW	COLD WATER	SHR	SHOWER	---		⊞	HOSE TAP
DT	DRINKING TROUGH	SK	SINK	---		⊞	STOP VALVE IN PATH BOX
FH	FIRE HYDRANT	ST	STACK	---		⊞	THERMOSTATIC MIXING VALVE
FU	FIXTURE UNIT	SV	STOP VALVE	---			
FW	FLOOR WASTE	UR	URINAL	---			
GBV	GAS BALL VALVE	VP	VENT PIPE	---			
GRH	GAS RADIANT HEATER	WC	WATER CLOSET	---			
HW	HOT WATER	WM	WASHING MACHINE	---			
HWU	HOT WATER UNIT	RPZD	REDUCED PRESSURE ZONE DEVICE	---			
HR	HOSE REEL	TD	TUNDISH	---			
HT	HOSE TAP	TMV	THERMOSTATIC MIXING VALVE	---			
IL	INVERT LEVEL			---			

3 CORE MDR ADMIN/LIBRARY – SUMMARY TABLE	
ACCESS SHOWER & WC	PROVIDE CW ONLY TO WC PROVIDE CW & HW TO B & SHR TMV REQUIRED
STAFF WC	PROVIDE CW ONLY TO WC & B
SICK BAY	PROVIDE CW & HW TO SK TMV REQUIRED
STAFF ROOM	PROVIDE CW ONLY TO BWU PROVIDE CW & HW TO SK
CDS	PROVIDE CW ONLY TO BSK & HWU
OFFICE/WORKROOM	PROVIDE CW ONLY TO BWU PROVIDE CW & HW TO SK
HWU	3.6kw 25L HWU UNDER SINK

POTABLE WATER PIPE SIZING TABLE	
PIPE MATERIAL	COPPER
METERING PRESSURE	300kpa *
PRESSURE DROP	150kpa
MAXIMUM VELOCITY	3m/s
INDEX LENGTH	200
PIPE SIZE (mm)	MAXIMUM WATER FLOW (l/s)
20	0.21
25	0.47
32	0.90
40	1.55
50	3.50

* ASSUMED [TBC]

SANITARY	22 Fu
WATER	20 Lu

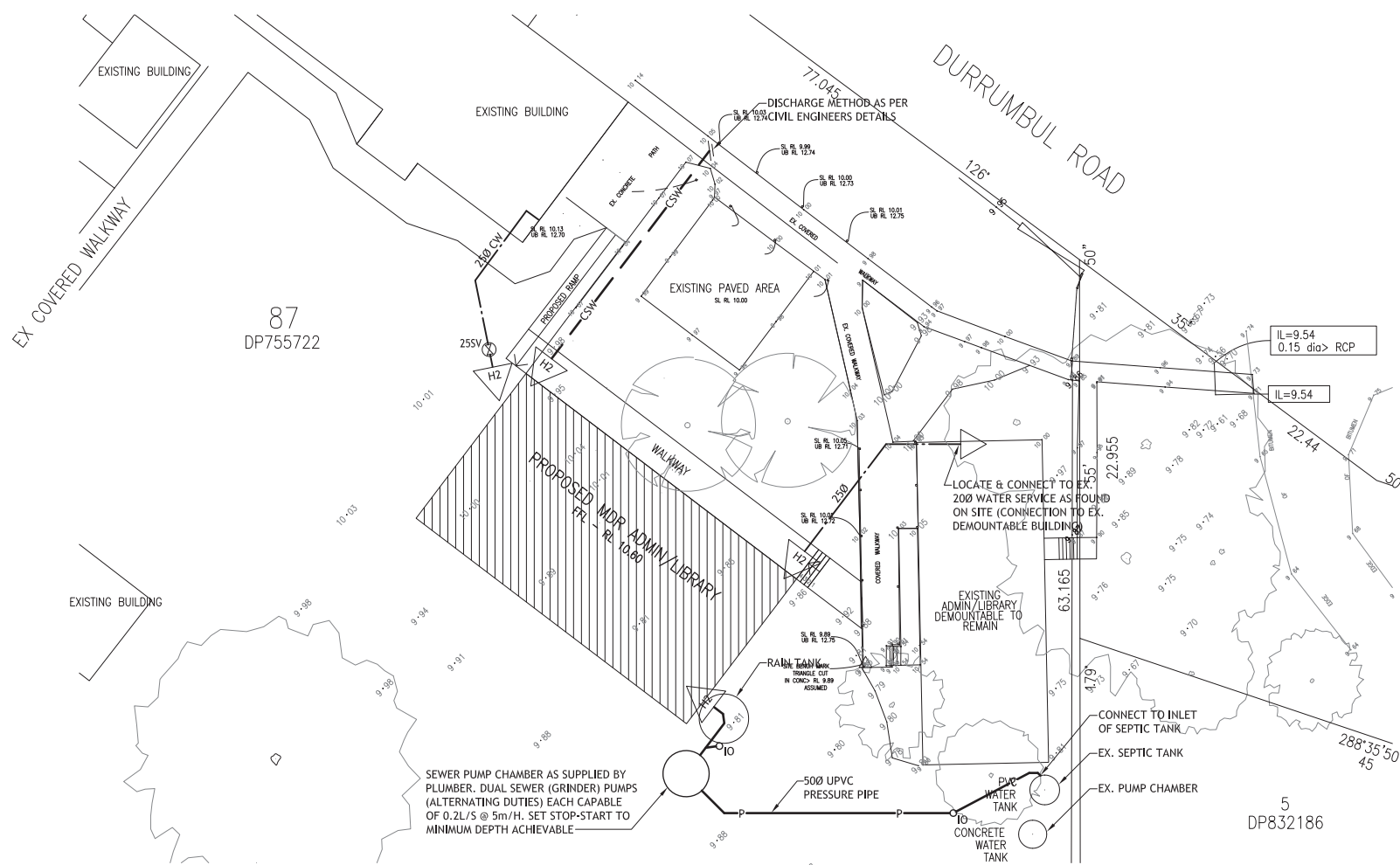
NOTES

- SERVICES SHOWN IN INDICATIVE LOCATION ONLY. FINAL LOCATION TO BE CONFIRMED ONSITE BEFORE COMMENCEMENT OF WORKS.
- FIRE HYDRANT TO BE CO-ORDINATED WITH EXISTING SITE CONDITIONS
- HOSE TAPS TO BE CO-ORDINATED WITH LANDSCAPE REQUIREMENTS
- ALLOW SECOND STAGE REGULATOR IN RECESS WALL BOX IF NATURAL GAS IS UNAVAILABLE. GAS PIPE SIZES TO BE IN ACCORDANCE WITH AG601.
- LOCATE 25L 3.6kw HWU UNDER SINK IF NG/LPG SUPPLY IS UNAVAILABLE. ALLOW TO PROVIDE DRAINAGE FOR ELECTRIC HWU OPTION IF REQUIRED.

FIXTURE TABLE		
FIXTURE	FIXTURE UNITS	LOADING UNITS
WATER CLOSET	4	2
BASIN	1	1
SHOWER	2	2
PAT	5	2(per outlet)
SINK	3	3
URINAL	1	2
BUCKET SINK	1	3
LAUNDRY TUB	5	3
DRINKING TROUGH	5	1/2(per outlet)
WASH TROUGH	5	1(per outlet)

LOADING UNITS	LITRES/SEC (PSF)	LOADING UNITS	LITRES/SEC (PSF)
1	0.10	170	1.57
2	0.12	180	1.65
3	0.15	190	1.72
4	0.18	200	1.80
5	0.21	240	1.97
6	0.23	280	2.20
7	0.24	320	2.42
8	0.25	360	2.57
9	0.26	400	2.73
10	0.27	440	2.95
11	0.28	480	3.10
12	0.29	520	3.26
13	0.30	560	3.41
14	0.31	600	3.48
15	0.32	640	3.64
16	0.33	680	3.79
17	0.34	720	3.86
18	0.35	760	4.01
19	0.36	800	4.09
20	0.38	840	4.17
30	0.42	880	4.32
40	0.45	920	4.39
50	0.52	960	4.47
60	0.64	1000	4.54
70	0.73	1040	4.70
80	0.83	1080	4.77
90	0.92	1120	4.85
100	1.00	1160	5.00
110	1.10	1200	5.07
120	1.20	1240	5.15
130	1.27	1280	5.23
140	1.35	1320	5.38
150	1.42	1360	5.45
160	1.50	1400	5.53

DET FIRE HYDRANT POLICY		
EXISTING FIRE HYDRANT STATUS – (SCHOOL HAS A FIRE HYDRANT SYSTEM OR THERE IS A FIRE HYDRANT IN THE STREET)	PROPOSED BER FACILITY FLOOR AREA	FIRE HYDRANT REQUIREMENTS
A	SCHOOL HAS AN EXISTING SYSTEM	GREATER THAN 500M ²
B	SCHOOL HAS AN EXISTING SYSTEM	LESS THAN 500M ²
C	SCHOOL DOES NOT HAVE HYDRANT SYSTEM	GREATER THAN 500M ²
D	SCHOOL DOES NOT HAVE HYDRANT SYSTEM	LESS THAN 500M ²



AS BUILT BY:
CLW PLUMBING
CRAIG WILLIS
0434 008 989

SITE PLAN
SANITARY PLUMBING / WATER SUPPLY LAYOUT
SCALE 1:200

REV	DATE	AMENDMENT	BY
A	01.10.09	TENDER ISSUE	CM
B	21.11.09	CONSTRUCTION ISSUE	CM
C	17.02.09	BUILDING RELOCATED	CM
D	18.03.10	STORMWATER REDESIGN	GB
E	18.04.10	SANITARY DRAINAGE REDESIGN	GB
F	23.07.10	AS BUILT	GB

AS BUILT

HYDRAULIC SERVICES

CONTRACT MANAGER
REED

Building the EDUCATION REVOLUTION

DET DEPARTMENT OF EDUCATION AND TRAINING

NSW GOVERNMENT

NORTH
CONSULTANTS PROJECT NUMBER
7317

BUILDING EDUCATION REVOLUTION
3 CORE MDR ADMIN/LIBRARY
DURRUMBUL PUBLIC SCHOOL
DURRUMBUL RD, MAIN ARM
HYDRAULIC SERVICES
BLOCK PLAN

0 4 8 12 16 20m			
SCALES (All Original)		DRAFTED DATE	
1:200		29.09.09	
DRAWING NUMBER	DISCIPLINE CODE	BUILDING NUMBER	SERIES NUMBER
1803	AB-HD	32	001
			REVISION
			F