

NOTES :-

- WATER SERVICING COORDINATOR: ROSE ATKINS RIMMER (INFRASTRUCTURE) Pty. Ltd.
SHOP 7 & 8 M CENTRE
40 STERLING ROAD MINCHINGBURY NSW 2770
Ph: (02) 9853 0200
- SURVEY: YOUDALE STRUDWICK AND COMPANY Pty Ltd.
SUITE 4, 114 HAMPODEN ROAD ARTARMON NSW 2064
Ph: (02) 9419 8222
- FOR: BIRLING ESTATE DEVELOPMENTS Pty. Ltd.
975 THE NORTHERN ROAD BRINGELLY NSW 2556
Ph: (02) 4774 6000
- 2 ALL WORKS & MATERIALS ARE IN ACCORDANCE WITH THE SEWERAGE CODE OF AUSTRALIA WSA 02-2002-2.2 (SYDNEY WATER EDITION - Version 4 - 2017) AND SYDNEY WATER'S TECHNICAL SPECIFICATION - CIVIL (VERSION 11.0).
- 3 ALL SERVICES SHOWN WERE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WAS REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
- 4 THE CONSTRUCTOR WAS TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES WITHIN THE VICINITY OF SEWER WORKS BY POTHOLING PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR WAS TO NOTIFY THE DESIGNER SHOULD ANY POTENTIAL CLASHES OCCUR OR IF MINIMUM CLEARANCES IN ACCORDANCE WITH TABLE 4.2 OF THE SEWERAGE CODE OF AUSTRALIA WSA 02-2002-2.2 (SYDNEY WATER EDITION VER 4 2017) CANNOT BE ACHIEVED.
- 5 ALL SURVEY MARKS WERE PEGS UNLESS OTHERWISE NOTED.
- 6 THE CONSTRUCTOR VERIFIED ALL EXISTING INVERT LEVELS PRIOR TO CONSTRUCTION.
- 7 TRENCH FILL IN ROAD CARRIAGEWAYS (TO SUBGRADE LEVEL ONLY) COMPLIES WITH ROAD OWNER'S REQUIREMENTS.
- 8 ALL STRUCTURES IN ACCORDANCE WITH MAINTENANCE STRUCTURE SCHEDULE (SHEET 3).
- 9 ALL STRUCTURES CONSTRUCTED TO PROPOSED FINISHED SURFACE LEVELS. THE CONSTRUCTOR WAS TO LIAISE WITH THE SITE SUPERINTENDENT TO VERIFY ALL FINAL LEVELS.
- 10 PIPES CONCRETE ENCASED (SUPPORT TYPE 12u TO SEW-1205-V) SHOWN ACCORDINGLY: 
- 11 DRAINAGE LIMITS ARE TO PROPOSED FINISHED SURFACE LEVELS.
- 12 PROPERTY CONNECTION SEWERS INSTALLED IN ACCORDANCE WITH SEW-1151-S.
- 13 SEWER ENDS WERE NOT BACKFILLED UNTIL LOCATION & INVERT LEVEL HAD BEEN OBSERVED & APPROVAL TO BACKFILL RECEIVED FROM THE W.S.C.
- 14 BUILDING OVER/ADJACENT TO SEWER. CONDITIONS APPLY. REFER TO TAP-IN.
- 15 THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY C2.8.3 OF THE TECHNICAL SPECIFICATION - CIVIL (VERSION 11.0) ARE:

PAVED AREAS:
PIPE EMBEDMENT ZONE: NIL TESTS
(PRE-QUALIFIED - WSA 02 CL 22.3.3.1)

TRENCH FILL ZONE: NIL TESTS
(REFER C2.8.4 WHERE STABILISED SAND IS BEING USED)

INTERMEDIATE/UNPAVED AREAS: LESS THAN 3m TRENCH DEPTH

PIPE EMBEDMENT ZONE: NIL TESTS (PRE-QUALIFIED - WSA 02 CL 22.3.3.1)	TRENCH FILL ZONE: 9 TESTS (4 TEST LOCATIONS, 1 TEST / 900mm LAYER / 100m MAIN)
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INTERMEDIATE/UNPAVED AREAS: GREATER THAN 3m TRENCH DEPTH

PIPE EMBEDMENT ZONE: NIL TESTS	TRENCH FILL ZONE: 12 TESTS
(PRE-QUALIFIED - WSA 02 CL 22.3.3.1)	(1 TEST LOCATION, 1 TEST / 300mm LAYER / 50m MAIN)

MAINTENANCE STRUCTURES: LESS THAN 3m TRENCH DEPTH
53 TESTS (1 TEST / 300mm LAYER WITHIN 300mm OF EACH STRUCTURE)

MAINTENANCE STRUCTURES: GREATER THAN 3m TRENCH DEPTH
50 TESTS (2 TESTS / 300mm LAYER WITHIN 300mm OF EACH STRUCTURE)
(REFER C2.8.4 WHERE STABILISED SAND IS BEING USED)

NOTE: NUMBER OF TESTS REQUIRED BY SYDNEY WATER COMPETENT GEOTECHNICAL ENGINEER (AS DEFINED IN SYDNEY WATER'S ENGINEERING COMPETENCY STANDARD, SYDNEY WATER DOCUMENT D0000833) MAY VARY BASED ON CHOSEN TEST LOCATIONS AND SITE SPECIFIC REQUIREMENTS. AVERAGE DEPTHS USED IN ABOVE CALCULATIONS.

- 16 COUNCIL'S TREE PRESERVATION ORDER STRICTLY ADHERED TO. EXCAVATIONS IN THE VICINITY
OF TREES CARRIED OUT IN ACCORDANCE WITH ARBORIST SPECIFICATIONS AND UNDER THE
SUPERVISION OF THE SITE ARBORIST (MANUAL OR HYDRO-EXCAVATION MAY BE REQUIRED).
NOTE: TREES SHOWN ON PLAN BASED ON THE CLIENT SUPPLIED SURVEY INFORMATION. ALL TREES
MAY NOT HAVE BEEN SHOWN.

STAGE 2B

BIRLING

WATER

Case No. 225286ww

CAMDEN SEWERAGE
DRAINS TO
UPPER SOUTH CREEK AWRC
VIA LOWES CREEK CARRIER SEC

PLAN DRAWN DATE: 28/8/26

VERSION: 02

SHEET

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OL

7

SHEETS

A1



SHEET 2

NORTHERN

P.M. 189206
B.M. ON PIN
67.405 (Origin)
[290999.941, 6239857.128]

CREEK

LOWES

4

NOT TO SCALE

02	WORK-AS-CONSTRUCTED	K.G.	28/8/26
01	CASE SPLIT AT CLIENT REQUEST	K.G.	24/9/25
No.	REVISION DESCRIPTION	BY	DATE

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION		UTILITIES					
		TYPE	DATE	REF.	TYPE	DATE	REF.
PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :-		WATER: ---DN100 Water---	24/9/25	RAR			
		PROP WATER: ---DN100 Water---	24/9/25	RAR			
		STORMWATER: ---SW---	24/9/25	ensure			
		PROP STORMWATER: ---SW---	24/9/25	ensure			
DIAL BEFORE YOU DIG	Ph. 1100						
ELECTRICITY	Ph.						
GAS	Ph.						
TELECOMMUNICATIONS	Ph.						
	Ph.						
GIVING AT LEAST 48 HOURS NOTICE.							

WORK AS CONSTRUCTED CERTIFICATION	
DEVELOPER	BIRLING ESTATE DEVELOPMENTS Pty. Ltd.
WATER SERVICE CO-ORDINATOR	ROSE ATKINS RIMMER (INFRASTRUCTURE) Pty. Ltd.
CONSTRUCTOR	C J DOYLE CONTRACTING SERVICES Pty. Ltd.
COMPLETED	19/8/2026 W.A.C. PREPARED 28/8/2026
DESIGNER	ROSE ATKINS RIMMER (INFRASTRUCTURE) Pty. Ltd.
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.	

PIPE SCHEDULE				
SIZE (DN)	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
150	u.P.V.C.	SN8	341.84	R.R.J.
DESIGN HEAD . . . m			NO BOUNDARY TRAPS REQUIRED.	

GDA 2020	
AUSTRALIAN HEIGHT DATUM	
SCALES PLAN . 1:500 . SECTION { HOR. . 1:1000 . VERT. . 1:250 . CROSS SECTIONS NATURAL LENGTHS, DEPTHS & LEVELS ARE IN METRES.	

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.	
U.B. DIRECTORY	284 K4 (Version 8.1 Digital)
SHEET 1 OF 4	File No. N/A

	SYDNEY WATER CORPORATION
Case No. 225286ww	
CAMDEN SEWERAGE DRAINS TO UPPER SOUTH CREEK AWRC VIA LOWES CREEK CARRIER SEC.	

R.A.R. REFERENCE: 8/28144/2B

DESIGNED: K.G.

DRAFTED: K.G.

VERIFIED: D.S.

REVIEWED: D.S.

VARIATION ID.

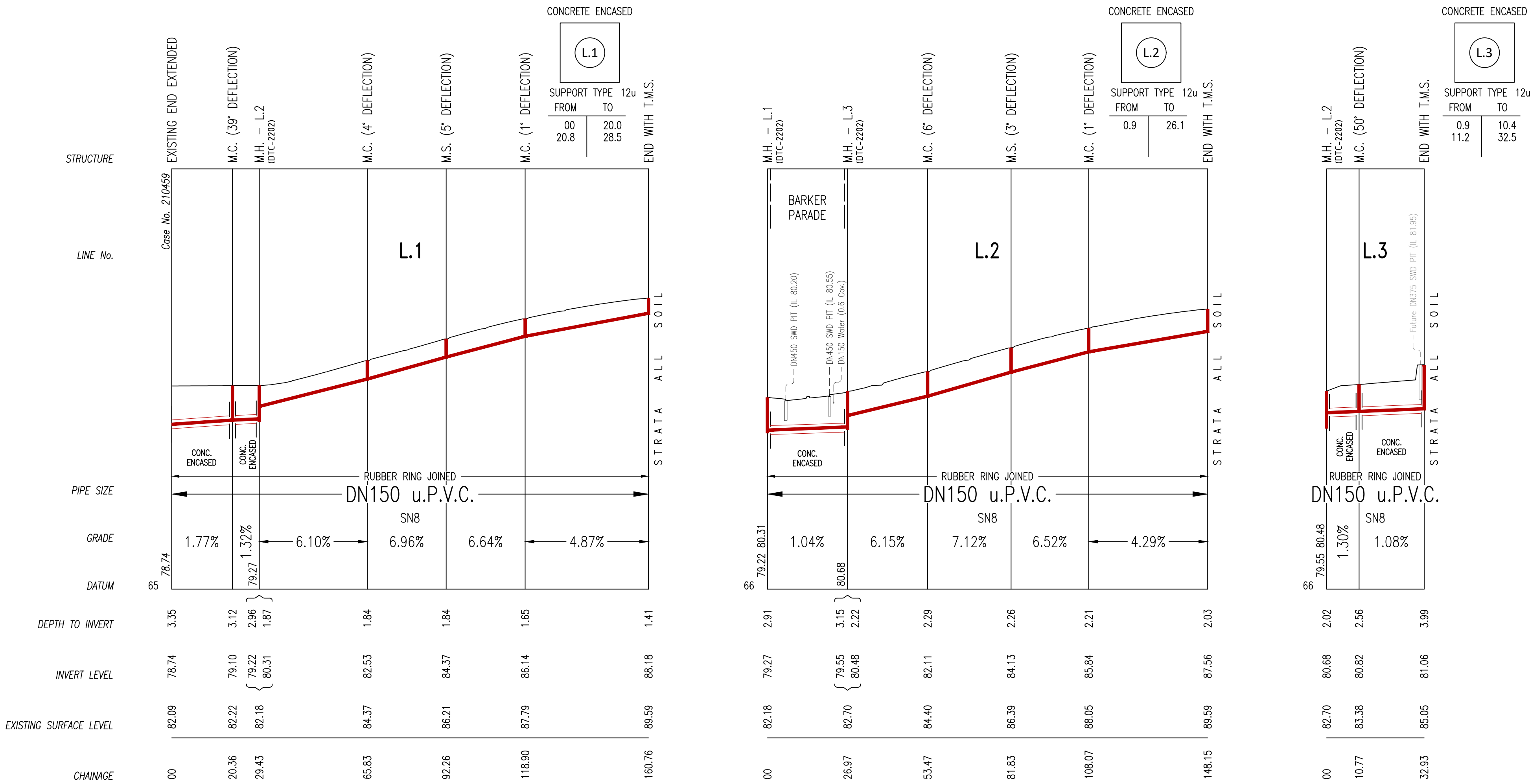
APPROVAL DATE:



PLAN DRAWN DATE: 28/8/26 VERSION: 02 SHEET 2 OF 4 SHEETS

STAGE 2B
BIRLING

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	BIRLING ESTATE DEVELOPMENTS	 Case No. 225286ww SHT 2 OF 4 SHTS.	
W.S.C.	ROSE ATKINS RIMMER		
CONSTRUCTOR	C.J. DOYLE CONTRACTING SERVICES	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
COMPLETED	19/8/2026		
W.A.C. PREPARED	28/8/2026		
DESIGNER	ROSE ATKINS RIMMER		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS			



MAINTENANCE STRUCTURE SCHEDULE
(REFER NOTE 8 & MAINTENANCE SHAFT NOTES BELOW)

LINE NO.	CHAINAGE	STRUCTURE	DN RISER	CLASS OF COVER	MATERIAL	COMMENTS
1	20.36	M.C.	600	B	PE	MAINTENANCE CHAMBER
1	29.43 (L.2 Ch00)	M.H.	1200	D	CAST IN-SITU	M.H. TO DTC-2202[F] (31/7/24) WITH EXTERNAL DROP INLET TO DTC-2221[D] (31/7/24)
1	65.83	M.C.	600	B	PE	MAINTENANCE CHAMBER
1	92.26	M.S.	300	B	PVC-U	M.S. WITH NO CROSSFALL. REFER SEW-1315-V
1	118.90	M.C.	600	B	PE	MAINTENANCE CHAMBER
1	160.76	T.M.S.	300	D	PVC-U	-
2	26.97 (L.3 Ch00)	M.H.	1200	D	CAST IN-SITU	M.H. TO DTC-2202[F] (31/7/24) WITH 2 x EXTERNAL DROP INLETS TO DTC-2221[D] (31/7/24)
2	53.47	M.C.	600	B	PE	MAINTENANCE CHAMBER
2	81.83	M.S.	300	B	PVC-U	M.S. WITH NO CROSSFALL. REFER SEW-1315-V
2	108.07	M.C.	600	B	PE	MAINTENANCE CHAMBER
2	148.15	T.M.S.	300	D	PVC-U	-
3	10.77	M.C.	600	B	PE	MAINTENANCE CHAMBER
3	32.93	T.M.S.	300	B	PVC-U	-

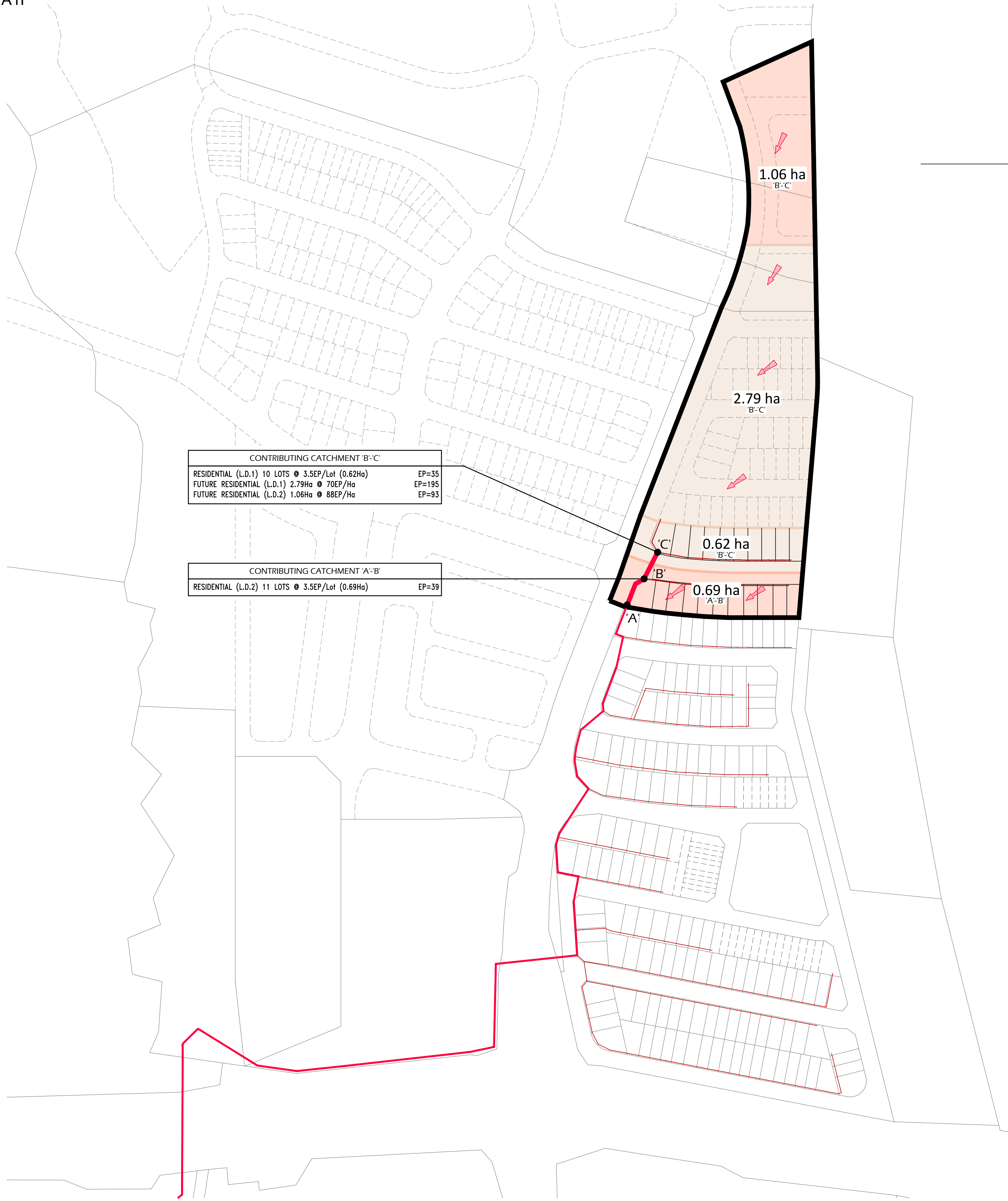
MAINTENANCE SHAFT NOTES:

- i) MAINTENANCE SHAFTS WITH 0° DEFLECTIONS IN ACCORDANCE WITH SEW-1314-V;
ii) MAINTENANCE SHAFTS WITH 1°-15° DEFLECTIONS IN ACCORDANCE WITH SEW-1315-V.

STAGE 2B

BIRLING

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	BIRLING ESTATE DEVELOPMENTS	Sydney WATER	
W.S.C.	ROSE ATKINS RIMMER		
CONSTRUCTOR	C J DOYLE CONTRACTING SERVICES	Case No. 225286ww	
COMPLETED	19/8/2026		
W.A.C. PREPARED	28/8/2026	SHT 3 OF 4 SHTS.	
DESIGNER	ROSE ATKINS RIMMER		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	



CONTRIBUTING CATCHMENT 'B'-C'		
RESIDENTIAL (L.D.1) 10 LOTS @ 3.5EP/Lot (0.62Ha)	EP=35	
FUTURE RESIDENTIAL (L.D.1) 2.79Ha @ 70EP/Ha	EP=195	
FUTURE RESIDENTIAL (L.D.2) 1.06Ha @ 88EP/Ha	EP=93	

CONTRIBUTING CATCHMENT 'A'-B'	
RESIDENTIAL (L.D.2) 11 LOTS @ 3.5EP/Lot (0.69Ha)	EP=39

RESIDENTIAL (L.D.2) 11 LOTS @ 3.5EP/LOT = 39EP CONTRIBUTING EP=39	RESIDENTIAL (L.D.1) 10 LOTS @ 3.5EP/LOT = 35EP FUTURE RESIDENTIAL (L.D.1) 2.79Ha @ 70EP/Ha = 195EP FUTURE RESIDENTIAL (L.D.2) 1.06Ha @ 88EP/Ha = 93EP CONTRIBUTING EP=324
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DN150 P.V.C. @ 1.32% Qf = 17.64 L/s DF = 8.21 L/s EP=362 < Max.883EP SELF CLEANSING OK	DN150 P.V.C. @ 1.04% Qf = 15.66 L/s DF = 7.67 L/s EP=324 < Max.745EP SELF CLEANSING OK
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LEGEND

(AS PER LOWES CREEK MARYLAND PRECINCT
INDICATIVE LAND USE PLAN, DATED 19/7/2021)

- RESIDENTIAL ZONING - LOW DENSITY BAND 1 (10~20 Dw/Ha)
- RESIDENTIAL ZONING - LOW DENSITY BAND 2 (20~25 Dw/Ha)
- CATCHMENT BOUNDARY
- DESIGN FALL OF LAND
- PROPOSED SEWER EXTENSION
- EXISTING SEWER

STAGE 2B
BIRLING

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	BIRLING ESTATE DEVELOPMENTS	Sydney WATER	
W.S.C.	ROSE ATKINS RIMMER		
CONSTRUCTOR	C J DOYLE CONTRACTING SERVICES	Case No. 225286ww SHT 4 OF 4 SHTS.	
COMPLETED	19/8/2026		
W.A.C. PREPARED	28/8/2026	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
DESIGNER	ROSE ATKINS RIMMER		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS			