

- NOTES :
1. WATER SERVICING COORDINATOR & DESIGNER  
CALIBRE PROFESSIONAL SERVICES PTY LTD  
P.O. BOX 8300 NORWEST BC NSW 2153  
Ph: (02) 8808 5000  
FOR:  
REDBANK COMMUNITIES  
76 ARTHUR PHILLIP DRIVE  
NORTH RICHMOND NSW 2754
  2. THE WORKS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE SEWERAGE CODE OF AUSTRALIA (WSA 02-2002-2.2 SYDNEY WATER EDITION VERSION 4-2017).
  3. ALL LOTS WERE VACANT AT TIME OF SURVEY.
  4. ALL STRUCTURES TO BE CONSTRUCTED TO PROPOSED FINISHED SURFACE LEVELS. AS THE P.F.S.L.'S SHOWN ON THIS PLAN MAY BE SUBJECT TO CHANGE, THE CONSTRUCTOR IS TO LIAISE WITH THE SITE SUPERINTENDENT TO VERIFY ALL FINAL LEVELS AT TIME OF CONSTRUCTION.
  5. PIPES TO BE CONCRETE ENCASED SHOWN ACCORDINGLY: ALL ENCASED SUPPORT TYPE 12U
  6. AREAS HATCHED THUS NOT DRAWN:
  7. DRAINAGE LIMITS ARE TO PROPOSED FINISHED SURFACE LEVELS.

8. ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
9. ALL MAINS LAID IN EXISTING, PROPOSED OR FUTURE ROAD CARRIAGEWAYS - SEE SITE SPECIFIC COMPACTION SPECIFICATION (SHEET 2).
10. CONCRETE BULKHEADS TO BE CONSTRUCTED AT REAR OF KERB FOR ALL ROAD CROSSINGS. REFER STD DWG SEW-1206 & SEW-1207-V.
11. EXISTING AND PROPOSED SERVICES ARE INDICATIVE ONLY. CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING & PROPOSED SERVICES WILL BE NECESSARY PRIOR TO THE COMMENCEMENT OF WORK & APPROPRIATE PROCEDURES, PRECAUTIONS AND CARE NEED TO BE TAKEN BY THE CONSTRUCTOR WHEN WORKING IN CLOSE PROXIMITY TO SERVICES DURING CONSTRUCTION AND ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONSTRUCTORS EXPENSE.
12. THE MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE SEWERAGE CODE OF AUSTRALIA (CLAUSE 22.3.4.4) ARE:  
PIPE EMBEDMENT ZONE: - NIL TRENCH FILL ZONE - TRAFFICABLE: NIL (SEE NOTE 9)  
TRENCH FILL ZONE - NON-TRAFFICABLE: 33  
M.H. & M.S. ZONE: 122  
(PLEASE REFER TO SITE SPECIFIC COMPACTION SPECIFICATION - SHEET 2).
13. ALL PROPERTY CONNECTION SEWERS TO BE CONSTRUCTED AS DETAILED IN DTC-2120 (ISS. A, 18/03/15).
14. PRECAUTIONS ARE NECESSARY IN THE VICINITY OF SUB-STATION & OTHER ELECTRICAL EARTHING.
15. CONSTRUCTOR TO PROVIDE WSC WITH CERTIFIED RED MARKED UP WAC DRAWINGS SHOWING ACCURATE DISTANCES OF PCS'S TO CENTRE OF DOWNSTREAM STRUCTURES, ACCURATE DISTANCE OF PCP ALONG PCS AND CHANGES OF CONCRETE ENCASED SECTIONS.
16. LOCATION OF SEWER LINES TO BE MARKED BY A REGISTERED LAND SURVEYOR PRIOR TO CONSTRUCTION.
17. INVERT LEVEL OF EXISTING SEWER AT CH 0.0 (L.1 & L.2) TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCEMENT OF CONSTRUCTION. WSC TO BE ADVISED.
18. EMBEDMENT COMPACTION TESTING AS PER SITE SPECIFIC COMPACTION SPECIFICATION (SHEET 2) AND SUBJECT TO CLAUSE 22.3.3.1 OF SEWERAGE CODE OF AUSTRALIA. SELF-COMPACTING METAL GRANULAR EMBEDMENT MAY BE USED.
19. WHERE MAINTENANCE SHAFTS HAVE A DEFLECTION GREATER THAN 30 DEGREES, INSTALL 'POO PIT' TYPE OR APPROVED EQUIVALENT. THE DEFLECTION ANGLE (D.A.) FOR EACH MAINTENANCE SHAFT IS SHOWN ON THE MAINTENANCE STRUCTURE SCHEDULE (SHEET 3).
20. ALL M.H.'S TO BE CONSTRUCTED IN ACCORDANCE WITH SYDNEY WATER'S DEEMED TO COMPLY DRAWING DTC-2203 (ISS. B, 18/03/15).
21. MINIMUM ALLOWABLE BEARING PRESSURE OF FOUNDATION MATERIAL FOR MAINTENANCE HOLES 0-6m DEEP SHALL BE 100kPa. FOUNDATION MATERIAL TO BE INSPECTED BY A SUITABLY EXPERIENCED GEOTECHNICAL ENGINEER PRIOR TO PLACING BLINDING CONCRETE & CERTIFICATION PROVIDED TO WSC.
22. A REVIEW OF ENVIRONMENTAL FACTORS (REF/SEE) HAS BEEN PREPARED FOR THE DEVELOPMENT SITE. MEASURES TO PROTECT THE ENVIRONMENT ARE DETAILED IN THE REF REPORT. THE CONSTRUCTOR SHALL COMPLY WITH ALL REQUIREMENTS IN ANY REF AND KEEP A COPY ON SITE AT ALL TIMES.
23. ALL MAINTENANCE STRUCTURES LOCATED WITHIN THE ROAD RESERVE & PROPOSED DRIVEWAYS TO BE FITTED WITH CLASS 'D' TRAFFICABLE LID.
24. FOR CATCHMENT PLAN AND FLOW DIAGRAM DETAILS, REFER SHEET 3 OF 3 OF CASE186813WW.
25. PLAN CO-ORDINATE SYSTEM GDA94, MGA56

\* PROPOSED ELECTRICAL SUBSTATION

SITE SPECIFIC CONSTRUCTION NOTE

- IT IS ACKNOWLEDGED THAT THERE IS RECENTLY CONSTRUCTED / COMPLETED INFRASTRUCTURE THROUGHOUT THE AREA OF PROPOSED WORKS. WITH OWNERSHIP SPREAD ACROSS SYDNEY WATER, COUNCIL AND REDBANK COMMUNITIES. THE CONTRACTOR IS AT ALL TIMES, TO UNDERTAKE WHATEVER TASKS NECESSARY TO MINIMISE DISTURBANCE AND DAMAGE TO EXISTING ROAD, KERB & GUTTER, FOOTPATH AND VEGETATION ETC, WITH ALL REPAIR AND RECTIFICATION TO MATCH THAT WHICH EXISTED PRIOR TO THE WORKS BEING UNDERTAKEN. PHOTOS OF EXISTING CONDITION WILL BE SUPPLIED TO BOTH THE PRINCIPLE CIVIL CONTRACTOR, SYDNEY WATER ACCREDITED SUBCONTRACTOR AND SUPERINTENDENT, TO CONFIRM THE PRE-WORKS CONDITION.

- SYDNEY WATER ACCREDITED SUBCONTRACTOR AT ALL TIMES, IS TO CONSULT WITH THE PRINCIPLE CIVIL CONTRACTOR, TO ENSURE THAT THE DEVELOPER, REDBANK COMMUNITIES IS ADVISED AND APPROVES THE EXTENT OF REQUIRED DISTURBANCE PRE-WORKS, IS ADVISED AND APPROVES OF ANY CHANGES TO THIS EXTENT DURING THE WORKS, AND INSPECTS AND ACCEPTS THE COMPLETED WORKS, PRIOR TO THE SYDNEY WATER ACCREDITED SUBCONTRACTOR LODGING THEIR PROJECT COMPLETION PACKAGE (PCP) WITH THE WATER SERVICE CO-ORDINATOR, WITH THIS ROLE UNDERTAKEN BY CALIBRE PROFESSIONAL SERVICES. CALIBRE PROFESSIONAL SERVICES ARE TO ONLY ACCEPT THE PCP FOR PROCESSING, PROVIDED THIS INSPECTION AND ACCEPTANCE BY REDBANK COMMUNITIES HAS BEEN RECEIVED IN WRITING WITH THE PCP.

**PLEASE NOTE SITE SPECIFIC COMPACTION SPECIFICATION - SHEET 2**

CONSTRUCTION NOTES

THE PROPOSED WORKS AS DETAILED HEREON MUST BE CONSTRUCTED IN ACCORDANCE WITH:

1. THE SEWERAGE CODE OF AUSTRALIA - WSA 02-2002-2.2 SYDNEY WATER EDITION VERSION 4-2017;
2. SYDNEY WATER'S DEEMED TO COMPLY DWG DTC-2000 (ISS. C, 18/03/15), DTC-2120 (ISS. A 18/03/15), DTC-2203 (ISS. B 18/03/15), DTC-2220 (ISS. D 18/03/15), DTC-2221 (ISS. B 1/03/13) & DTC-2222 (ISS. C 18/03/15).
3. SITE SPECIFIC COMPACTION TESTS - SHEET 2.

THE CONSTRUCTOR MUST HAVE A COPY OF THESE DOCUMENTS ON SITE AT ALL TIMES.

**CONTACT DIAL BEFORE YOU DIG**

04	WORK AS CREATED	A.S.	3/02/23
03	MINOR AMENDMENT TO L.3	M.W.	28/04/22
02	ISSUE FOR SWC APPROVAL	M.W.	18/02/22
01	FOR CLIENT COMMENT	M.W.	14/07/21
No.	AMENDMENT DESCRIPTION	BY	DATE

UTILITIES	
TYPE	DATE REF.
STORMWATER: SWD	02/02/22 JWD
PROP STORMWATER: SWD	02/02/22 JWD
WATER: DN100 Water	11/01/22 CALIBRE
PROP WATER: DN100 Water	11/01/22 CALIBRE
PROP ELECTRICITY: E	07/07/21 EPD

WORK AS CREATED CERTIFICATION	
DEVELOPER	REDBANK COMMUNITIES
WATER SERVICE CO-ORDINATOR	CALIBRE PROFESSIONAL SERVICES PTY LTD
CONSTRUCTOR	C.J. DOYLE CONTRACTING SERVICES PTY LTD
COMPLETED	23/06/2022 W.A.C. PREPARED 3/02/2023
DESIGNER	CALIBRE PROFESSIONAL SERVICES PTY LTD
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CREATED DRAWINGS.	

PIPE SCHEDULE	
SIZE DN	TYPE CLASS LENGTH PIPE JOINING METHOD / NOTES
150	UPVC SN8 1196.42
NO BOUNDARY TRAPS REQUIRED.	

AUSTRALIAN HEIGHT DATUM
SCALES
PLAN 1:1000 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 . . . . . MAP 63, G16 (41st Edition) . . . . .
SHEET . 1 . OF . 3 . . . . . File No. N/A

REDBANK RIDGETOPS I

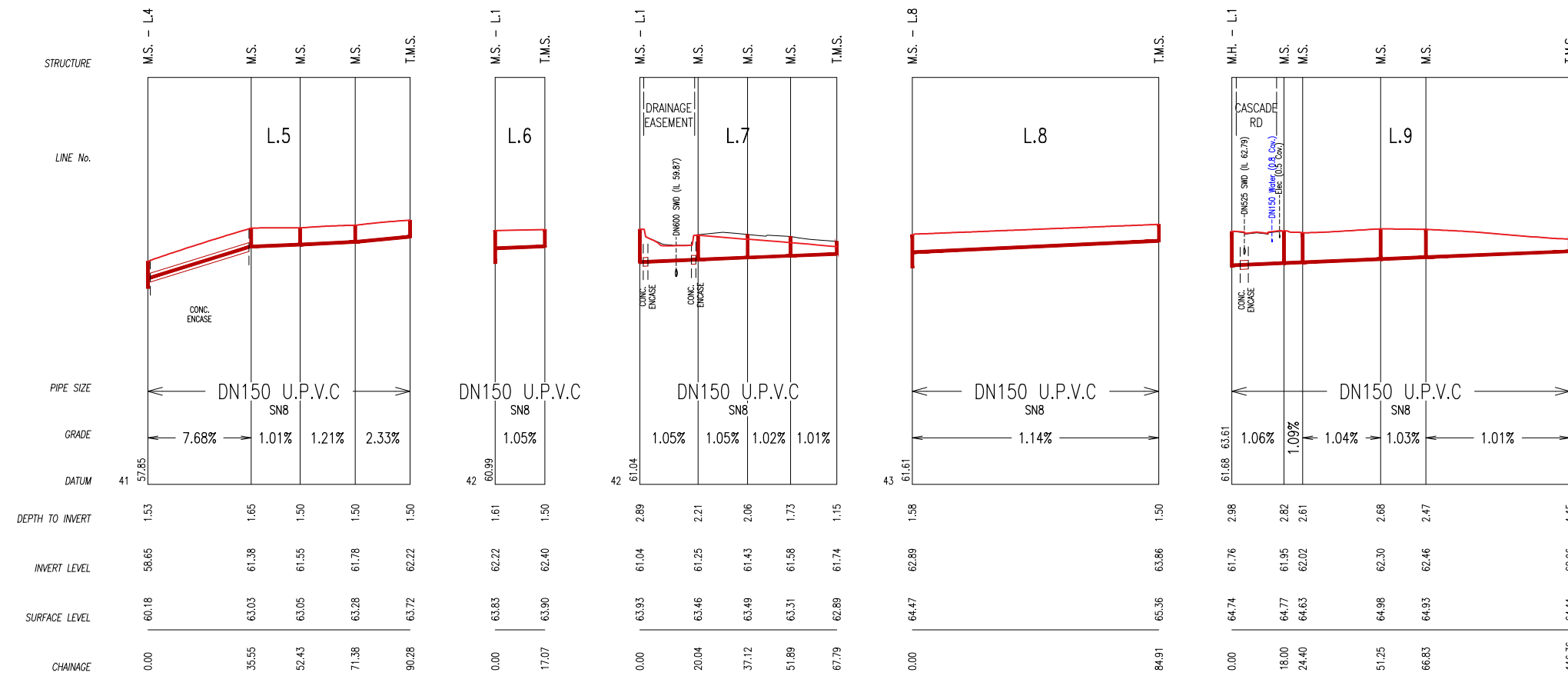
**Sydney WATER** SYDNEY WATER CORPORATION

Case No. 186814WW

**HAWKESBURY SEWERAGE**  
DRAINS TO NORTH RICHMOND S.T.W.

PLAN DRAWN DATE: 3/02/2023 VERSION: 04 SHEET 1 OF 3 SHEETS





MAINTENANCE STRUCTURE SCHEDULE (MSS)							
LINE NO	CHAINAGE	TYPE	DN RISER	COVER CLASS (REFER NOTE 24)	MATERIAL (PVC, CAST IN-SITU, ETC)	MS DEFLECTION ANGLE	COMMENTS (BRAND, DTC, MS DEF. ANGLE'S, OTHER INFO)
1/2	0.00	EX. STRUCTURE	N/A	N/A	N/A	N/A	EXISTING MH WITH 2xDN150 INLETS
1/3	10.23	MH	1.050	B	CAST IN-SITU	N/A	DTC-2203
1	40.70	MH	1.050	B	CAST IN-SITU	N/A	DTC-2203
1	70.87	MS	0.225	B	UPVC	5	'AMYROO' TYPE OR EQUIV.
1	94.65	MS	0.225	B	UPVC	11	'AMYROO' TYPE OR EQUIV.
1	119.91	MS	0.225	B	UPVC	12	'AMYROO' TYPE OR EQUIV.
1	145.19	MS	0.225	B	UPVC	12	'AMYROO' TYPE OR EQUIV.
1	170.48	MS	0.225	B	UPVC	12	'AMYROO' TYPE OR EQUIV.
1	195.79	MH	1.050	B	CAST IN-SITU	N/A	DTC-2203
1	221.10	MS	0.225	B	UPVC	12	'AMYROO' TYPE OR EQUIV.
1	246.41	MS	0.225	B	UPVC	12	'AMYROO' TYPE OR EQUIV.
1	271.71	MS	0.225	B	UPVC	12	'AMYROO' TYPE OR EQUIV.
1	297.00	MS	0.225	B	UPVC	12	'AMYROO' TYPE OR EQUIV.
1	324.26	MS	0.225	B	UPVC	6	'AMYROO' TYPE OR EQUIV.
1/6	351.45	MS	0.300	N/A	UPVC	0 / 100	'POO PIT' TYPE OR EQUIV. WITH HIGH LEVEL INLET
1/7	356.20	MS	0.225	B	UPVC	30 / 57	'POO PIT' TYPE OR EQUIV.
1	392.66	MS	0.225	B	UPVC	11	'AMYROO' TYPE OR EQUIV.
1/8	410.98	MS	0.300	N/A	UPVC	56 / 79	'POO PIT' TYPE OR EQUIV. WITH HIGH LEVEL INLET
1/9	417.23	MH	1.050	B	CAST IN-SITU	N/A	DTC-2203
1	446.33	MH	1.050	B	CAST IN-SITU	N/A	DTC-2203 MH WITH 3xDN150 INLETS
2	9.74	MS	0.225	B	UPVC	31	'POO PIT' TYPE OR EQUIV.
2	13.59	MS	0.225	B	UPVC	INLET: 67	'AMYROO' TYPE OR EQUIV.
3	6.98	MS	0.225	B	UPVC	46	'POO PIT' TYPE OR EQUIV.
3	13.29	MS	0.225	B	UPVC	12	'AMYROO' TYPE OR EQUIV.
3	40.05	MS	0.225	B	UPVC	11	'AMYROO' TYPE OR EQUIV.
3/4	57.71	MH	1.050	B	CAST IN-SITU	N/A	DTC-2203
3	75.34	MS	0.225	B	UPVC	8	'AMYROO' TYPE OR EQUIV.

MAINTENANCE STRUCTURE SCHEDULE (MSS)							
LINE NO	CHAINAGE	TYPE	DN RISER	COVER CLASS (REFER NOTE 24)	MATERIAL (PVC, CAST IN-SITU, ETC)	MS DEFLECTION ANGLE	COMMENTS (BRAND, DTC, MS DEF. ANGLE'S, OTHER INFO)
3	92.96	MS	0.225	B	UPVC	8	'AMYROO' TYPE OR EQUIV.
3	110.58	MS	0.225	B	UPVC	3	'AMYROO' TYPE OR EQUIV.
3	147.98	TMS	0.225	B	UPVC	N/A	'AMYROO' TYPE OR EQUIV.
4	22.29	MS	0.225	B	UPVC	8	'AMYROO' TYPE OR EQUIV.
4/5	45.27	MS	0.300	N/A	UPVC	4 / 90	'POO PIT' TYPE OR EQUIV. WITH HIGH LEVEL INLET
4	67.43	MS	0.225	B	UPVC	18	'AMYROO' TYPE OR EQUIV.
4	95.73	MS	0.225	B	UPVC	24	'AMYROO' TYPE OR EQUIV.
4	124.06	MS	0.225	B	UPVC	24	'AMYROO' TYPE OR EQUIV.
4	152.41	MS	0.225	B	UPVC	24	'AMYROO' TYPE OR EQUIV.
4	180.76	MS	0.225	B	UPVC	24	'AMYROO' TYPE OR EQUIV.
4	209.11	MS	0.225	B	UPVC	13	'AMYROO' TYPE OR EQUIV.
4	212.11	TMS	0.225	B	UPVC	N/A	'AMYROO' TYPE OR EQUIV.
5	35.55	MS	0.225	B	UPVC	88	'POO PIT' TYPE OR EQUIV.
5	52.43	MS	0.225	B	UPVC	24	'AMYROO' TYPE OR EQUIV.
5	71.38	MS	0.225	B	UPVC	31	'POO PIT' TYPE OR EQUIV.
5	90.28	TMS	0.225	B	UPVC	N/A	'AMYROO' TYPE OR EQUIV.
6	17.07	TMS	0.225	B	UPVC	N/A	'AMYROO' TYPE OR EQUIV.
7	20.04	MS	0.225	B	UPVC	9	'AMYROO' TYPE OR EQUIV.
7	37.12	MS	0.225	B	UPVC	6	'AMYROO' TYPE OR EQUIV.
7	51.89	MS	0.225	B	UPVC	4	'AMYROO' TYPE OR EQUIV.
7	67.79	TMS	0.225	B	UPVC	N/A	'AMYROO' TYPE OR EQUIV.
8	84.91	TMS	0.225	B	UPVC	N/A	'AMYROO' TYPE OR EQUIV.
9	18.00	MS	0.225	B	UPVC	46	'POO PIT' TYPE OR EQUIV.
9	24.40	MS	0.225	B	UPVC	40	'POO PIT' TYPE OR EQUIV.
9	51.25	MS	0.225	B	UPVC	7	'AMYROO' TYPE OR EQUIV.
9	66.83	MS	0.225	B	UPVC	4	'AMYROO' TYPE OR EQUIV.
9	116.36	TMS	0.225	B	UPVC	N/A	'AMYROO' TYPE OR EQUIV.

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	REDBANK COMMUNITIES		Case No.186814WW   SHT 3 OF 3 SHTS.
W.S.C.	CAIBRE PROFESSIONAL SERVICES PTY LTD.		
CONSTRUCTOR	C/A DOYLE CONTRACTING SERVICES PTY LTD.	DESIGNER: CAIBRE PROFESSIONAL SERVICES PTY LTD.	
COMPLETED	23/06/2022	I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	
W.A.C. PREPARED	3/02/2023	FOR DETAILS OF SERVICES SEE SHEET 1	