

M.G.A. ZONE 56 M.G.A. DATUM: GDA2020

- DESIGNER AND WATER SERVICING COORDINATOR:
QALCHEK PTY LTD (CERTIFIED No.289)
UNIT 2, LEVEL 1, 15-17 DAVID RD, EMU PLAINS NSW 2750
PH. No. (02) 4722 8181

FOR:
WOORONG PARK PTY LTD
C/O J WYNNDHAM PRINCE
280 HIGH STREET, PENRITH NSW 2750
PH. No. 02 4720 3300
- THE WORKS AND MATERIALS WERE IN ACCORDANCE WITH THE SEWERAGE CODE OF AUSTRALIA WSA 02-2002-2.2 SYDNEY WATER EDITION VERSION 4 (2017) INCLUDING THE SYDNEY WATER SUPPLEMENT & APPENDICES ALONG WITH THE CIVIL SPEC V.11. ALL PIPES/FITTINGS/OTHER PRODUCTS COMPLIED WITH EPS 500/EPS 501. THE CONTRACTOR HAD A COPY OF THESE DOCUMENTS ON SITE AT ALL TIMES.
- ALL STRUCTURES WERE CONSTRUCTED TO FINISHED SURFACE LEVELS. ALL LEVELS REFER TO FINISHED SURFACE LEVEL. SEWER CONSTRUCTOR LIAISED WITH ROAD AND/OR CIVIL CONTRACTOR TO VERIFY ALL LEVELS IN PARTICULAR IN OR ADJACENT TO ROADS. PROJECT SUPERVISOR/DESIGNER WAS INFORMED OF ANY DISCREPANCIES.
- ALL FINISHED SURFACE LEVELS, STORMWATER INFORMATION, AND GENERAL CIVIL ENGINEERING DETAILS TAKEN FROM J WYNNDHAM PRINCE CIVIL DESIGN RECEIVED ON 17/06/2024.
- THE MINIMUM NUMBER OF FIELD COMPACTION TESTS CONDUCTED TO SATISFY THE SYDNEY WATER CIVIL SPEC. WERE:

PIPE EMBEDMENT ZONE: 0 TESTS CONDUCTED
TRENCH FILL ZONE: 565 TESTS CONDUCTED
TRENCH FILL ZONE (MAINTENANCE STRUCTURES): 1117 TESTS CONDUCTED
TOTAL COMPACTION TESTS: 1682 TESTS CONDUCTED
NUMBER OF TESTS VERIFIED BY ACCREDITED FIELD TESTER.

MATERIAL TESTING OF PIPE EMBEDMENT, TRENCH FILL AND SELECT FILL WAS UNDERTAKEN AS PER CIVIL TECH SPEC SECTION C2.7.8.
- ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
- THE REVIEW OF ENVIRONMENTAL FACTORS WAS AN INTEGRAL PART OF THIS DESIGN AND WAS READ IN CONJUNCTION WITH THIS PLAN.
- PRIOR TO ANY EXCAVATION THE CONSTRUCTOR HAD A CURRENT COPY OF THE UNDERGROUND SERVICES REPORT WHICH WAS READ IN CONJUNCTION WITH THIS PLAN.
- SERVICES SHOWN FROM 'DIAL BEFORE YOU DIG AUSTRALIA' SERVICES SEARCH WERE INDICATIVE ONLY. AUTHENTICITY AND ACCURACY WERE NOT PRESUMED AND WERE CONFIRMED BY THE CONSTRUCTOR PRIOR TO ANY EXCAVATION WORKS ON SITE.
- ALL EXCAVATION, SHORING EXCAVATION AND STABILITY OF ADJACENT STRUCTURES/SERVICES/DWELLINGS WAS THE RESPONSIBILITY OF THE CONSTRUCTOR. SHORING BOXES WERE NOT USED AS A FORM OF STABILITY CONTROL, NEITHER WAS SAND CEMENT BACKFILL NOR CONCRETE ENCASUREMENT.
- ALL PCS CONNECTIONS TO I.S. WERE AT 0.7m & 45° TO MAIN UNLESS OTHERWISE INDICATED.
DENOTES STANDARD PCS CONNECTION (REFER DTC-2120 ISSUE B DATE 31.07.24)
- ALL JUNCTION CHAINAGES WERE PROVIDED BY THE CONSTRUCTOR.
- PIPES CONCRETE ENCASED SHOWN ACCORDINGLY: - REFER TO SEW-1205-V
- ALL MAINTENANCE HOLES WERE CONSTRUCTED IN ACCORDANCE WITH SYDNEY WATER'S DEEMED TO COMPLY DRAWINGS DTC-2203 (ISSUE C 31.07.24) AND DTC-2200 (ISSUE G 31.07.24) READ IN CONJUNCTION WITH DTC-2000 (ISSUE D 31.07.24), DTC-2220 (ISSUE E 31.07.24), DTC-2221 (ISSUE D 31.07.24), DTC-2222 (ISSUE D 31.07.24) AND DTC-2223 (ISSUE C 31.07.24).
- THE CONSTRUCTOR CHECKED AND VERIFIED THE EXISTING INVERT LEVELS AT THE CONNECTING M.H. BEFORE CONSTRUCTION COMMENCEMENT. IF ANY DISCREPANCIES WERE FOUND, THE INFORMATION WAS RELAYED BACK TO QALCHEK.
- W.A.C. PREPARED FROM INFORMATION SUPPLIED (IN PART BY QALCHEK PTY LTD) & BY J.P.H. SURVEYS.



MAINTENANCE STRUCTURE SCHEDULE						
LINE No.	CHAINAGE	TYPE	DN RISER	CLASS OF COVER	MATERIAL	COMMENTS
1	20.87	M.H.	1200	D	CAST IN SITU REIN. CONC.	DTC-2200 (G-31.07.24)
1	32.74	M.H.	1200	D	CAST IN SITU REIN. CONC.	DTC-2200 (G-31.07.24)
1	104.98	M.H.	1200	D	CAST IN SITU REIN. CONC.	DTC-2200 (G-31.07.24)
1	225.09	M.H.	1200	D	CAST IN SITU REIN. CONC.	DTC-2200 (G-31.07.24)
1	345.00	M.H.	1200	D	CAST IN SITU REIN. CONC.	DTC-2200 (G-31.07.24)
1	355.89	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
1	379.21	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
1	450.68	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
1	522.08	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
1	591.45	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
1	664.54	M.C.	600	B	PE/PP/PVC	WSA-137
1	716.74	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
1	732.68	T.M.S.	300	B	PE/PP/PVC	WSA-137
2	16.47	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
2	37.51	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
2	61.14	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
2	83.49	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
2	89.84	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
2	164.20	M.C.	600	B	PE/PP/PVC	WSA-137
2	178.49	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
2	221.18	M.C.	600	B	PE/PP/PVC	WSA-137
2	245.94	M.C.	600	B	PE/PP/PVC	WSA-137
2	267.06	M.C.	600	B	PE/PP/PVC	WSA-137
2	292.96	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
2	300.51	M.C.	600	B	PE/PP/PVC	WSA-137
2	360.64	T.M.S.	300	B	PE/PP/PVC	WSA-137
3	103.21	M.S.	300	B	PE/PP/PVC	WSA-137
3	181.15	T.M.S.	300	B	PE/PP/PVC	WSA-137
4	39.97	M.C.	600	B	PE/PP/PVC	WSA-137
4	46.21	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
4	69.00	M.C.	600	B	PE/PP/PVC	WSA-137
4	89.80	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
4	113.35	M.C.	600	B	PE/PP/PVC	WSA-137
4	136.30	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
4	157.80	M.C.	600	B	PE/PP/PVC	WSA-137
4	182.95	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
4	287.11	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
4	304.50	T.M.S.	300	B	PE/PP/PVC	WSA-137
5	93.15	M.S.	300	B	PE/PP/PVC	WSA-137
5	176.81	T.M.S.	300	B	PE/PP/PVC	WSA-137
6	88.85	M.S.	300	B	PE/PP/PVC	WSA-137
6	185.51	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
6	200.63	T.M.S.	300	B	PE/PP/PVC	WSA-137
7	12.84	T.M.S.	300	B	PE/PP/PVC	WSA-137
8	15.60	T.M.S.	300	B	PE/PP/PVC	WSA-137
9	91.56	M.S.	300	B	PE/PP/PVC	WSA-137
9	157.10	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
9	175.60	T.M.S.	300	B	PE/PP/PVC	WSA-137
10	14.60	T.M.S.	300	B	PE/PP/PVC	WSA-137
11	90.22	M.S.	300	B	PE/PP/PVC	WSA-137
11	145.95	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
11	163.70	T.M.S.	300	B	PE/PP/PVC	WSA-137
12	15.20	T.M.S.	300	B	PE/PP/PVC	WSA-137
13	72.32	M.S.	300	B	PE/PP/PVC	WSA-137
13	135.55	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
13	153.47	T.M.S.	300	B	PE/PP/PVC	WSA-137
14	15.09	T.M.S.	300	B	PE/PP/PVC	WSA-137
15	32.14	M.H.	1050	B	CAST IN SITU CONC.	DTC-2203 (C-31.07.24)
15	72.70	T.M.S.	300	B	PE/PP/PVC	WSA-137

1	WORK AS CONSTRUCTED	J.V.	04.02.26
D	CONC. ENCASEMENT ADDED TO L.1 & 4	T.T.	09.10.25
C	NOTES 5 & 14 AMENDED, NOTE 15 ADDED	S.T.	30.01.25
B	AMENDED AS PER SW COMMENTS	S.T.	09.10.24
A	ISSUE FOR REVIEW	S.T.	20.06.24
No.	AMENDMENT DESCRIPTION	BY	DATE

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION

PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT:-
DIAL BEFORE YOU DIG Ph. 1100
ELECTRICITY Ph. 131 22 22
GAS Ph. 131 22 22
TELECOMMUNICATIONS Ph. 131 22 22
SYDNEY WATER Ph. 132 092
GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES			
TYPE	DATE	REF.	TYPE
STORMWATER: SWD	20.06.24	CIVIL DES.	
NEW WATER: DN100 Water	20.06.24	DESIGN	
WATER: DN100 Water	20.06.24	DESIGN	
SS205078F (ORIGIN)	20.06.24	SCIMS	

WORK AS CONSTRUCTED CERTIFICATION			
DEVELOPER	DESIGNER	CONSTRUCTOR	COMPLETED
WOORONG PARK PTY LTD	QALCHEK PTY LTD	C.J. DOYLE CONTRACTING SERVICES PTY LTD	02.12.2025
WATER SERVICE CO-ORDINATOR	DESIGNER	CONSTRUCTOR	W.A.C. PREPARED
QALCHEK PTY LTD	QALCHEK PTY LTD	C.J. DOYLE CONTRACTING SERVICES PTY LTD	04.02.2026

PIPE SCHEDULE			
SIZE DN	TYPE	CLASS	LENGTH
150	U.P.V.C.	SN8	2132.51
225	U.P.V.C.	SN8	117.70
225	P.P.	SN20	345.00
100	U.P.V.C.	SN10	387.00

AUSTRALIAN HEIGHT DATUM	
PLAN	SECTION
1:500	1:125
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.

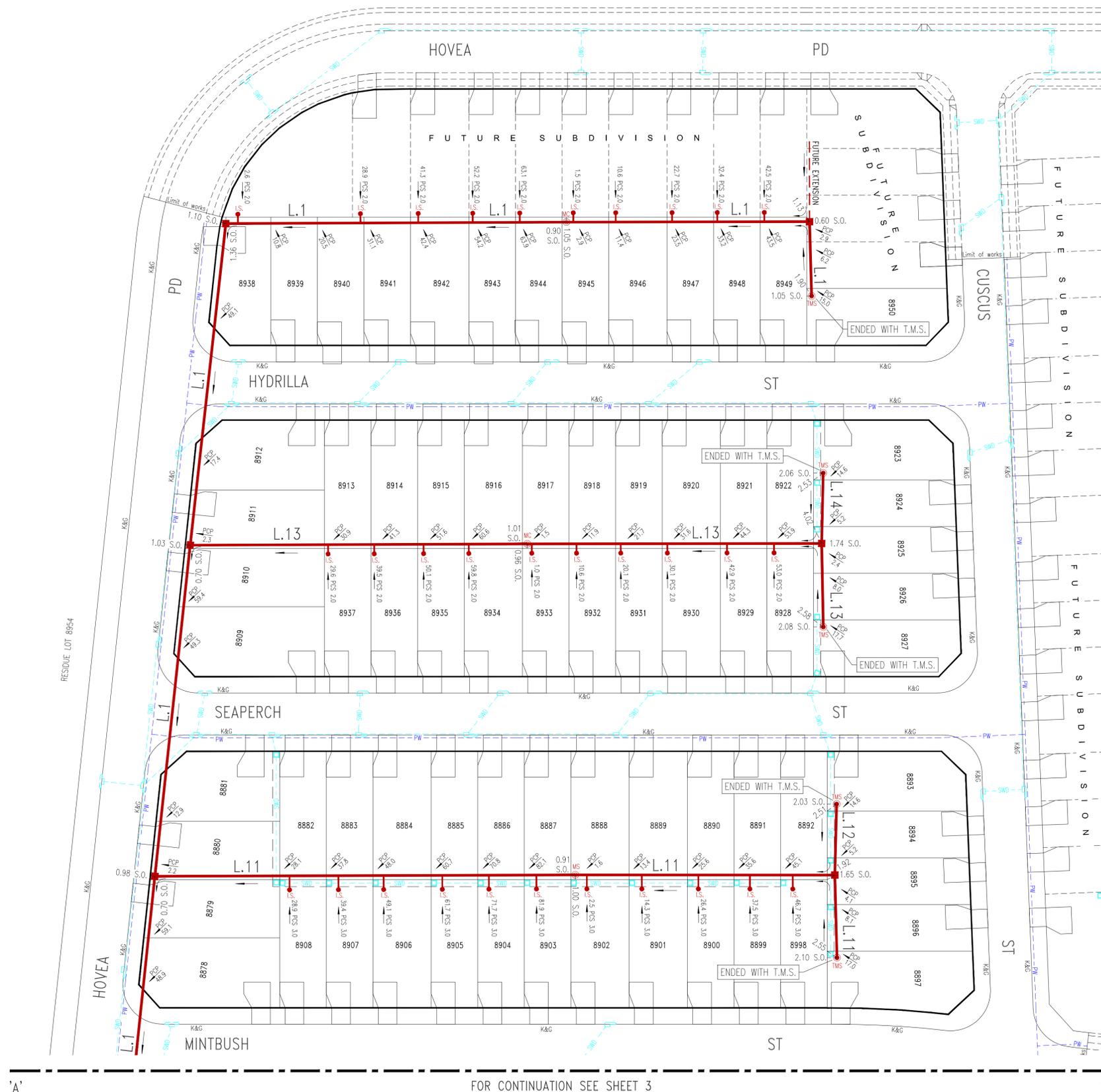
U.B. DIRECTORY 126/B13 41st Edition

SHEET 1 OF 9 File No. N/A

Sydney WATER SYDNEY WATER CORPORATION

Case No. 195240WW

BLACKTOWN SEWERAGE DRAINS TO RICHMOND ROAD CARRIER VIA SP1160 - RIVERSTONE ST 0042



FOR CONTINUATION SEE SHEET 3

No.	AMENDMENT DESCRIPTION	BY	DATE
1	WORK AS CREATED	J.V.	04.02.26
D	CONC. ENCASEMENT ADDED TO L.1 & 4	T.T.	09.10.25
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WORK AS CREATED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD		Case No. 195240WW SHT 2 OF 9 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	FOR DETAILS OF SERVICES SEE SHEET 1	
COMPLETED	02.12.2025		
W.A.C. PREPARED	04.02.2026	SYDNEY WATER CORPORATION	
DESIGNER	QALCHEK PTY LTD	FOR DETAILS OF SERVICES SEE SHEET 1	
I CERTIFY THAT THE WORKS HAVE BEEN CREATED IN ACCORDANCE WITH THE WORK AS CREATED DRAWINGS			

'A' FOR CONTINUATION SEE SHEET 2 'A'



'B' FOR CONTINUATION SEE SHEET 4 'B'

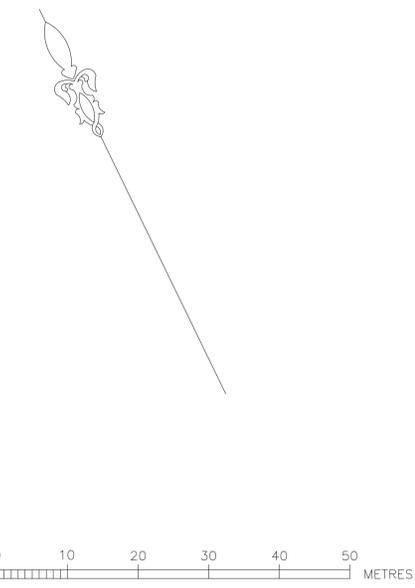
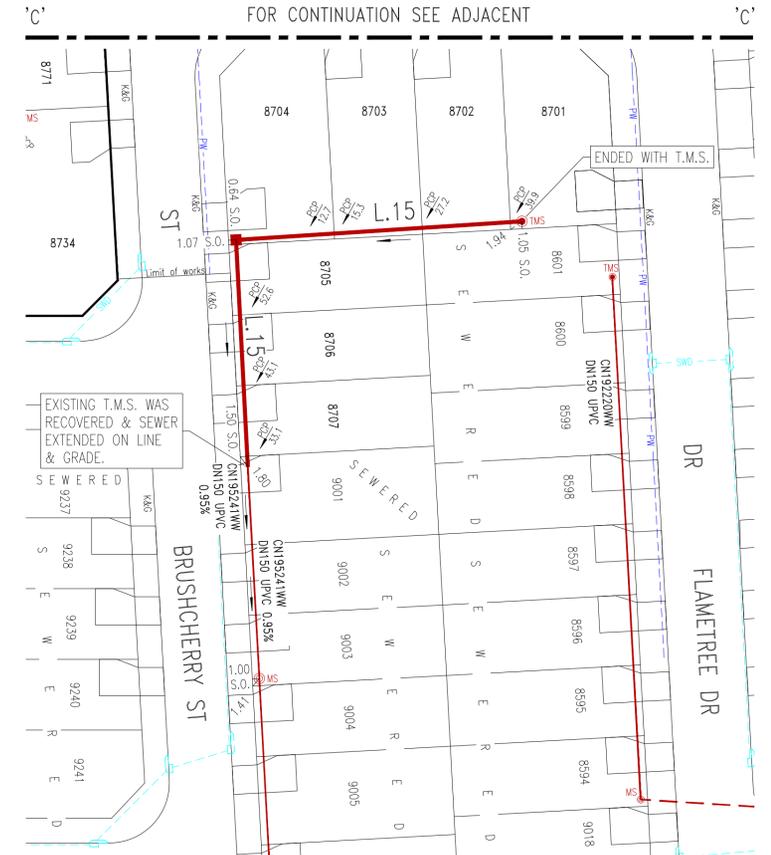
PLAN DRAWN DATE: 04.02.2026 VERSION: 1 SHEET 3 OF 9 SHEETS

MAINTENANCE STRUCTURE COORDINATES				
LINE No.	CHAINAGE	TYPE	EASTING	NORTHING
1	20.87	M.H.	296033.6030	6269733.4280
1	32.74	M.H.	296024.7420	6269725.5370
1	104.98	M.H.	295959.7320	6269757.0360

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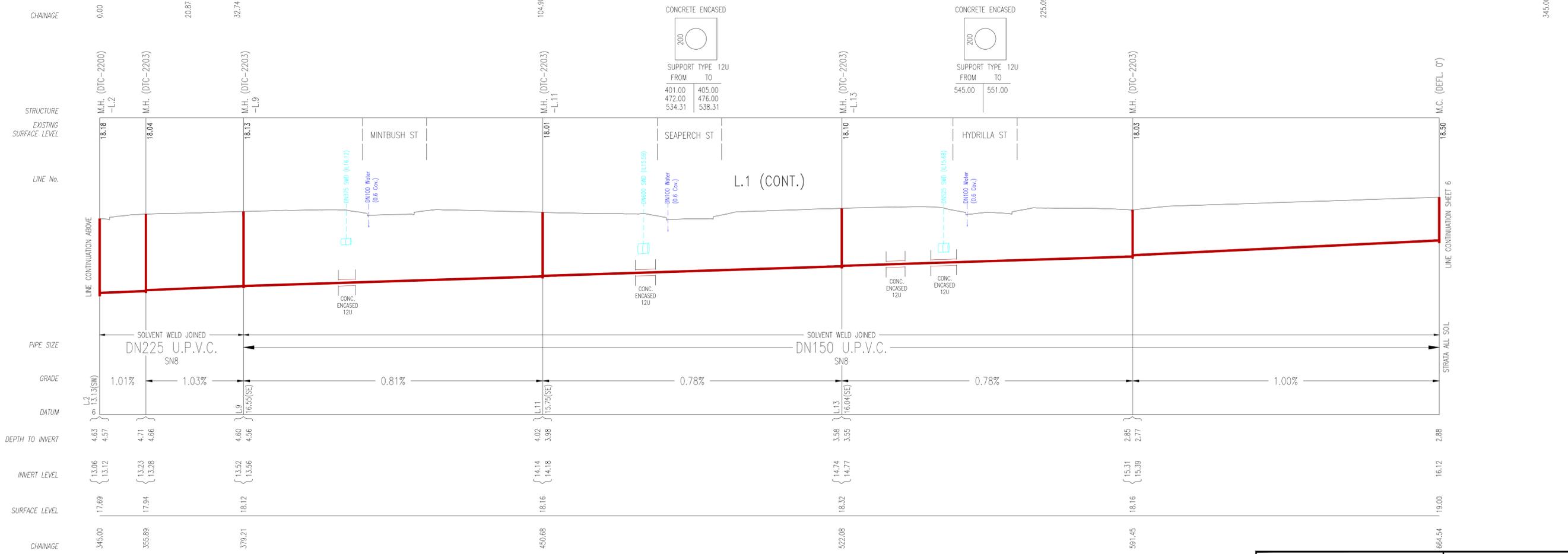
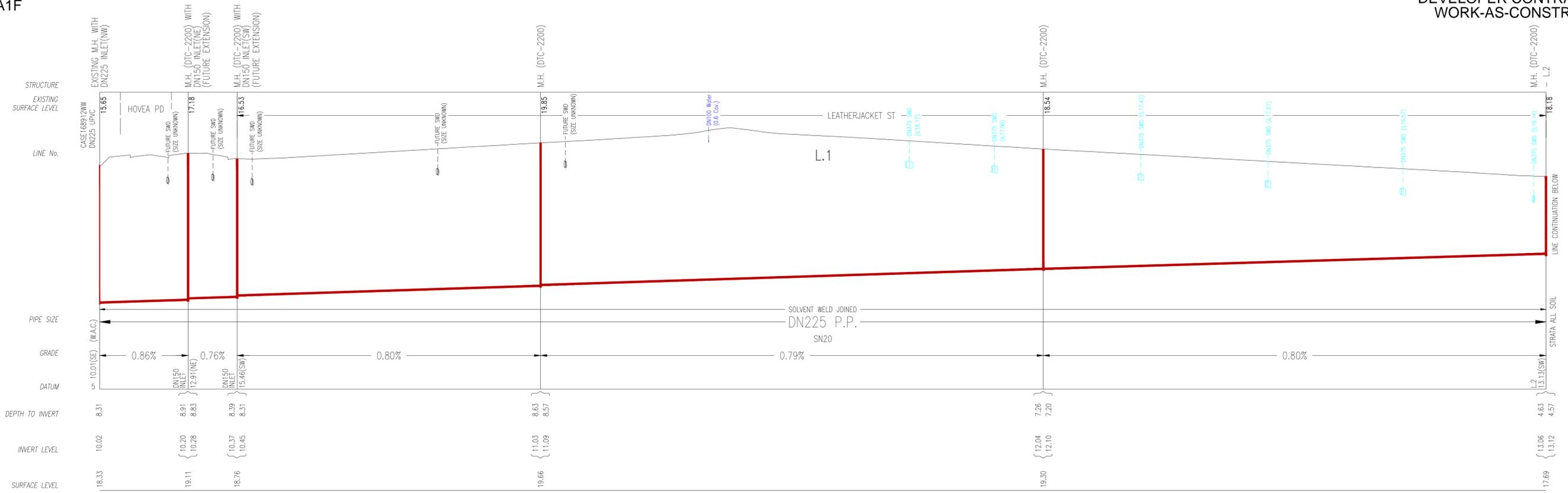


WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD		Case No. 195240WW SHT 3 OF 9 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	COMPLETED 02.12.2025	
W.A.C. PREPARED 04.02.2026		DESIGNER QALCHEK PTY LTD	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1	



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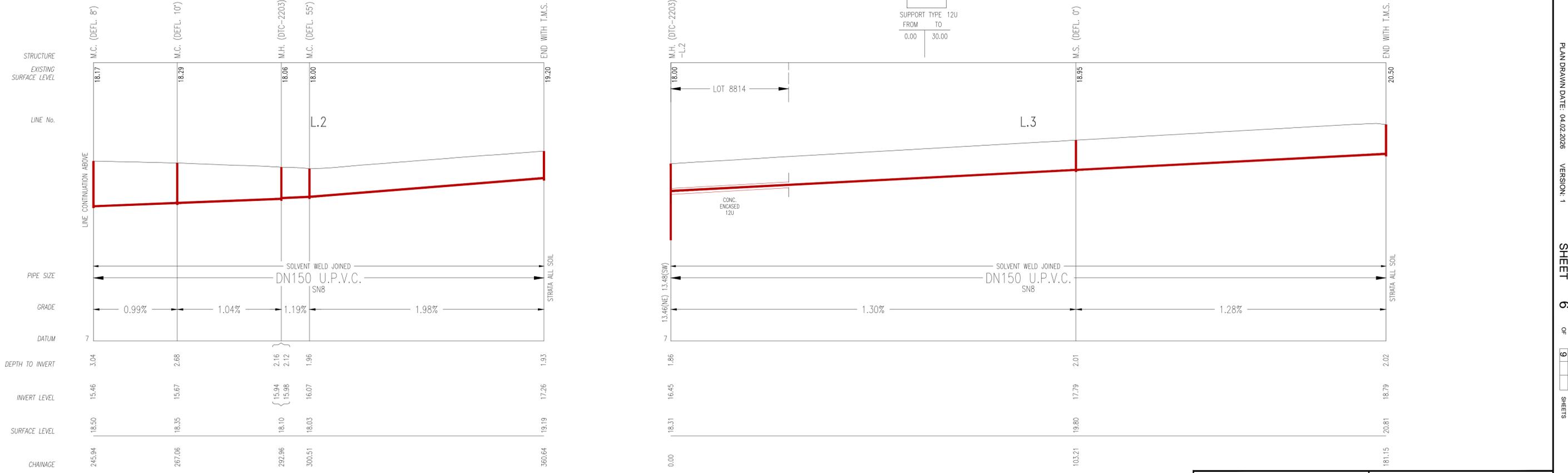
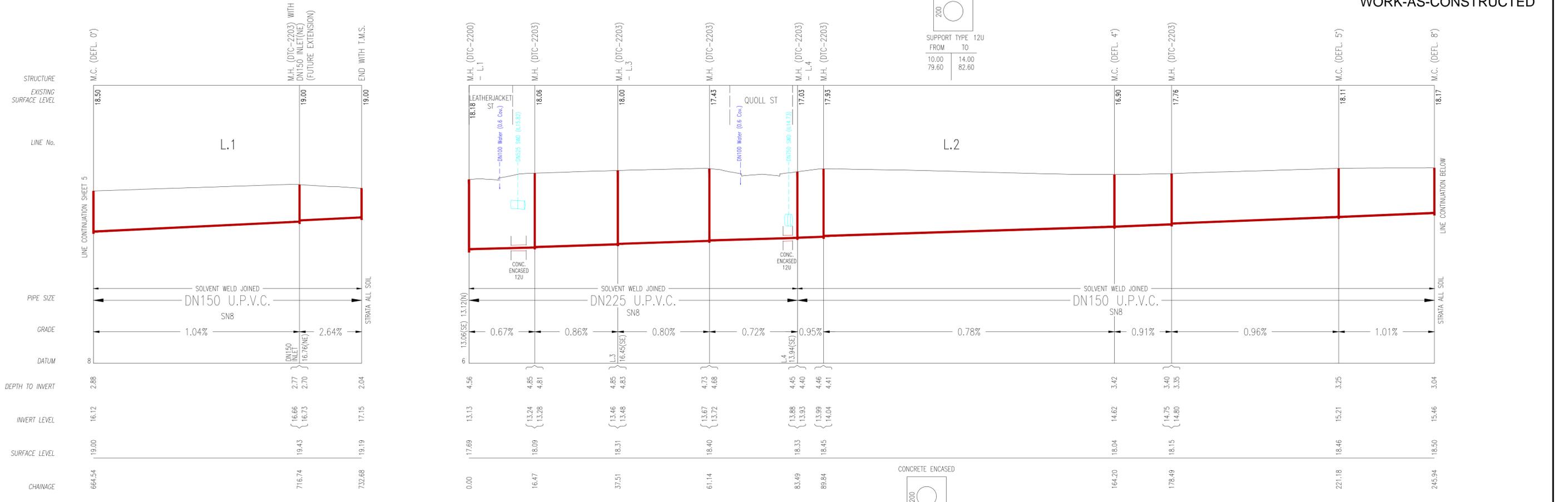
WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	Case No. 195240WW SHT 4 OF 9 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	SYDNEY WATER CORPORATION	
COMPLETED	02.12.2025	FOR DETAILS OF SERVICES SEE SHEET 1	
W.A.C. PREPARED	04.02.2026		
DESIGNER	QALCHEK PTY LTD		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS			



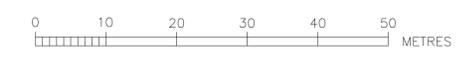
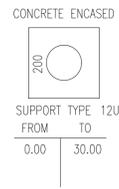
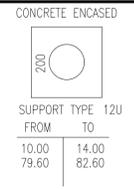
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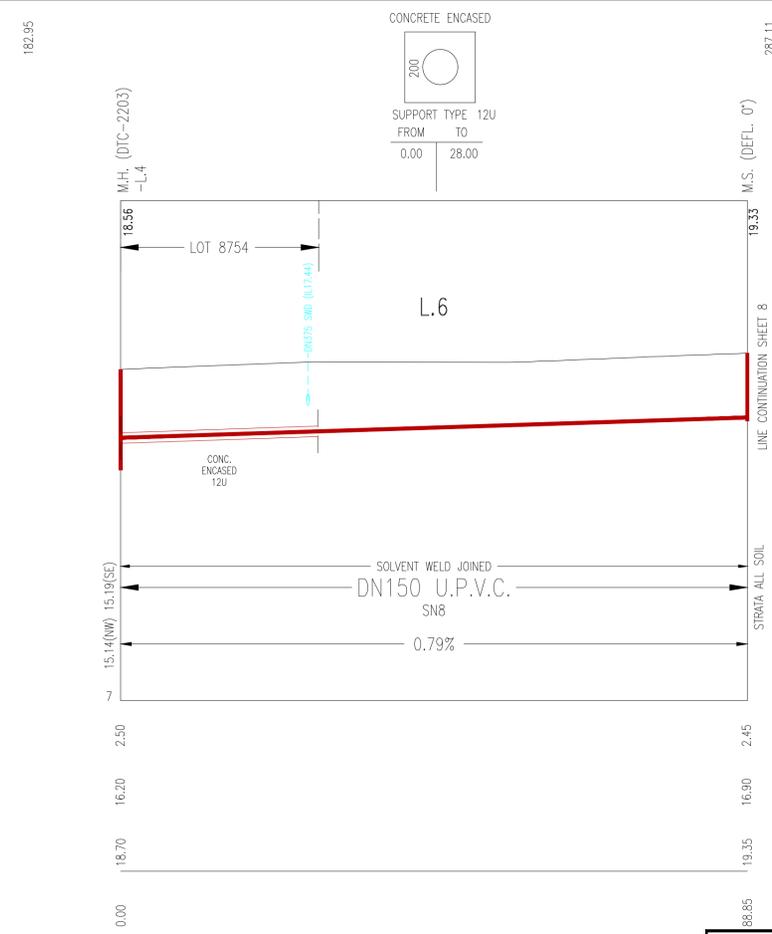
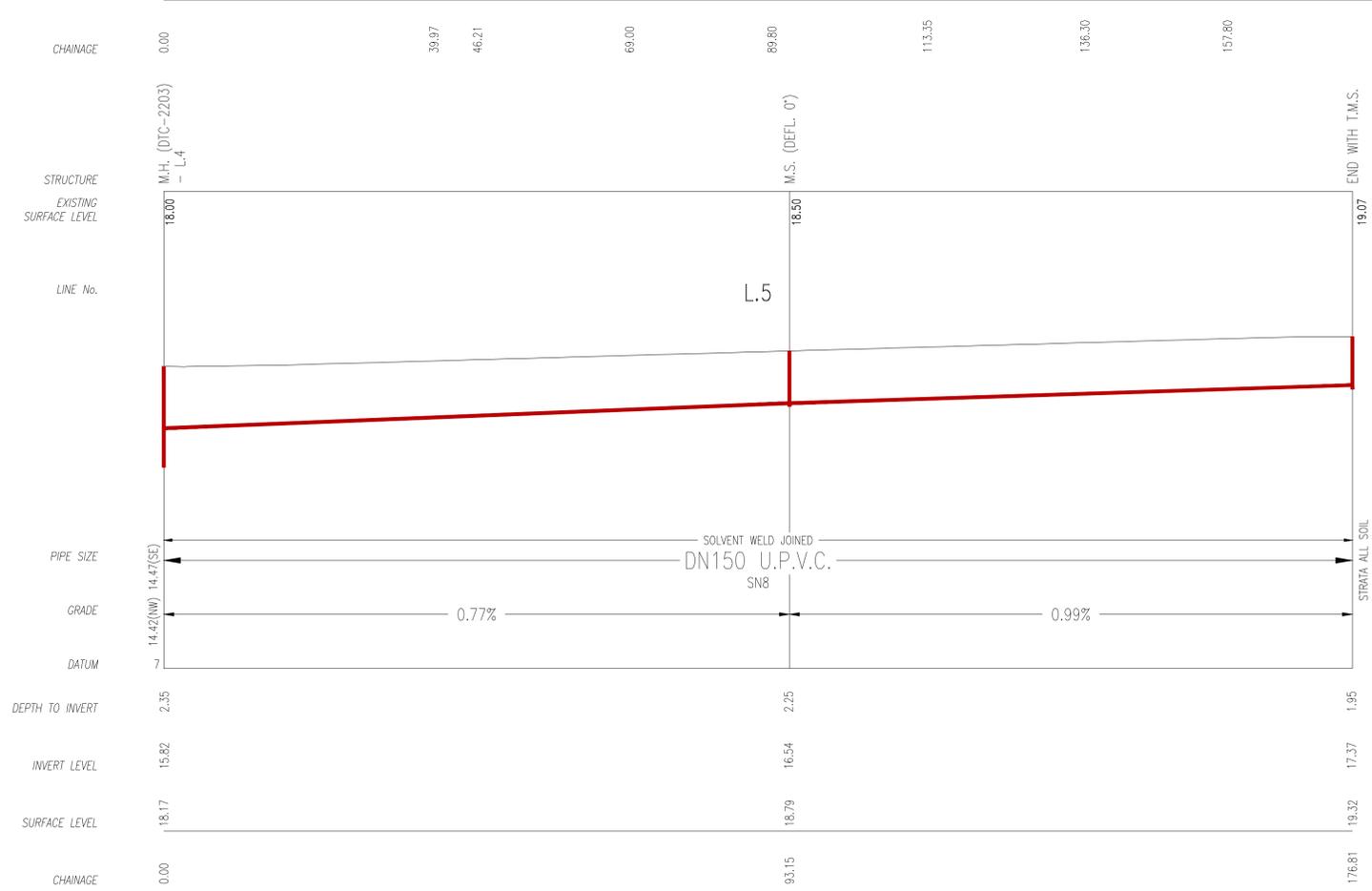
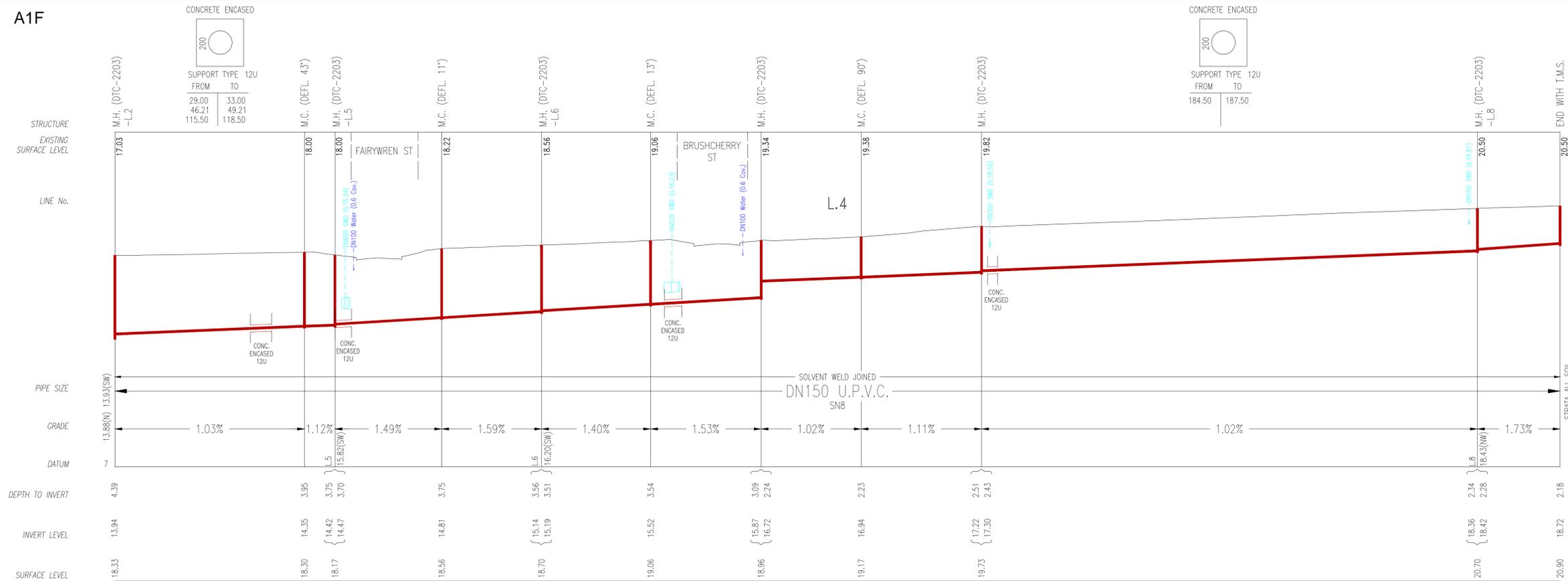
WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD		
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	Case No. 195240WW SHT 5 OF 9 SHTS.	
COMPLETED	02.12.2025		
W.A.C. PREPARED	04.02.2026		
DESIGNER	QALCHEK PTY LTD	SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1	



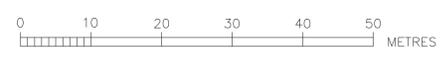
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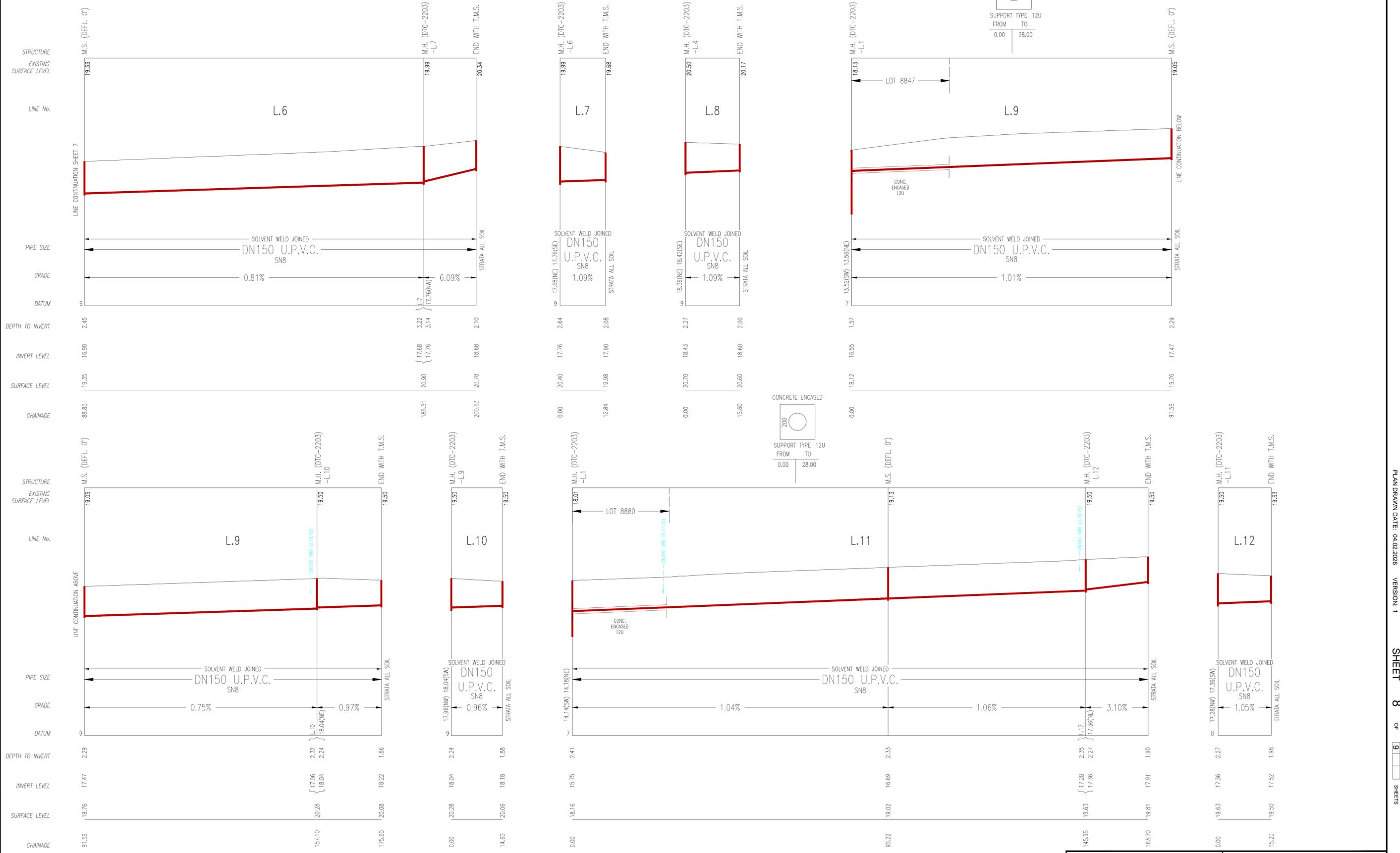
WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD		
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	Case No. 195240WW	SHT 6 OF 9 SHTS.
COMPLETED	02.12.2025	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
W.A.C. PREPARED	04.02.2026		
DESIGNER	QALCHEK PTY LTD		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS			



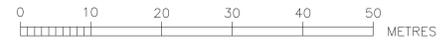
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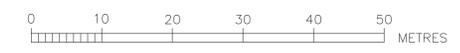
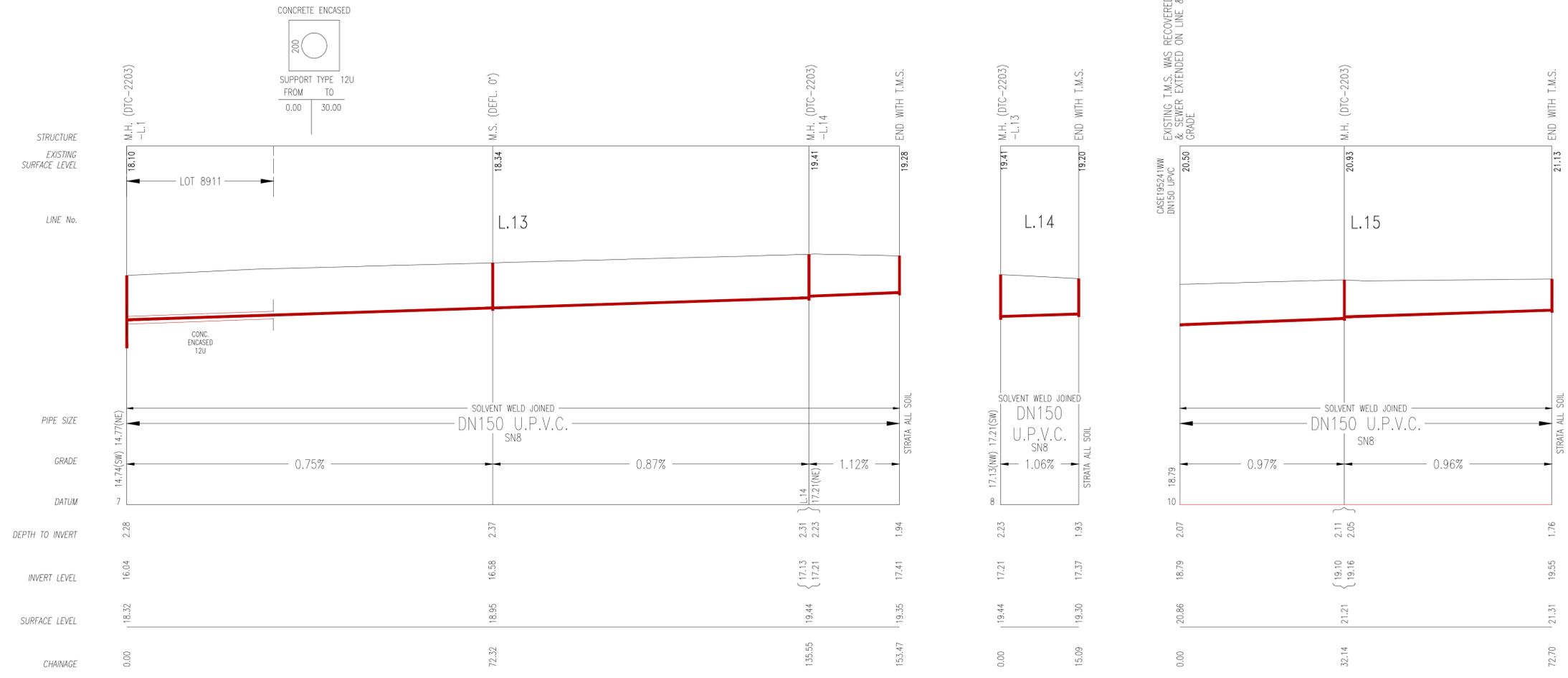
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DEVELOPER	WOORONG PARK PTY LTD		
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	Case No. 195240WW	SHT 7 OF 9 SHTS.
COMPLETED	02.12.2025	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
W.A.C. PREPARED	04.02.2026		
DESIGNER	QALCHEK PTY LTD		



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WORK AS CREATED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD		
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	Case No. 195240WW	SHT 8 OF 9 SHTS.
COMPLETED	02.12.2025	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
W.A.C. PREPARED	04.02.2026		
DESIGNER	QALCHEK PTY LTD		



No.	AMENDMENT DESCRIPTION	BY	DATE
1	WORK AS CONSTRUCTED	J.V.	04.02.26
D	CONC. ENCASEMENT ADDED TO L.1 & 4	T.T.	09.10.25
C	NOTES 5 & 14 AMENDED, NOTE 15 ADDED	S.T.	30.01.25
B	AMENDED AS PER SW COMMENTS	S.T.	09.10.24
A	ISSUE FOR REVIEW	S.T.	20.06.24

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD		
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	Case No. 195240WW	SHT 9 OF 9 SHTS.
COMPLETED	02.12.2025	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
W.A.C. PREPARED	04.02.2026		
DESIGNER	QALCHEK PTY LTD		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS			