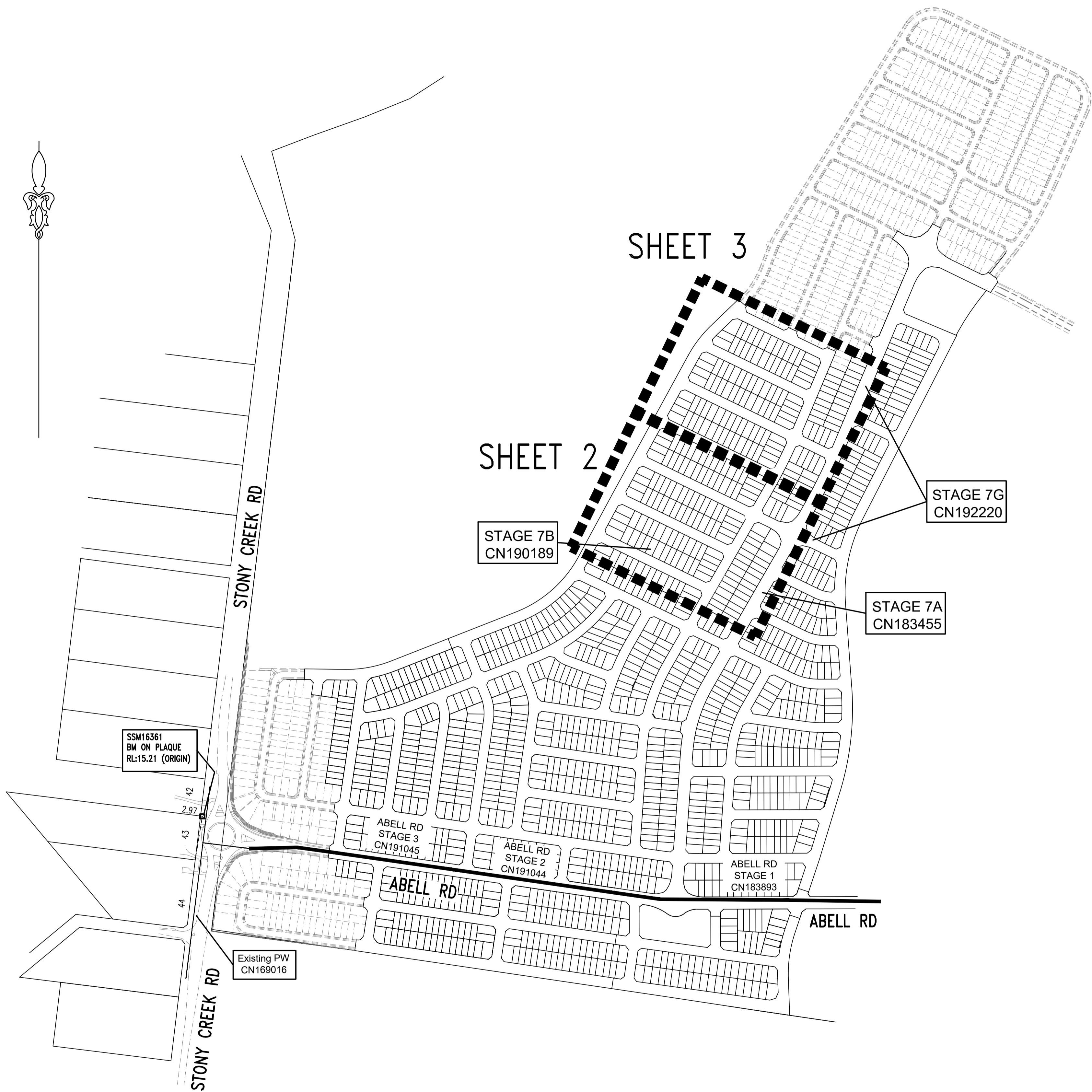


- DESIGNER AND WATER SERVICING COORDINATOR:
QALCHEK PTY LTD (CERTIFIED No.289)
UNIT 2, LEVEL 1, 15-17 DAVID ROAD, EMU PLAINS NSW 2750
PH. No. (02) 4722 8181

FOR:
WOORONG PARK PTY LTD
c/o J WYNHAM PRINCE
580 HIGH STREET, PENRITH, NSW 2750
PH. 02 4720 3300
- THE WORKS AND MATERIALS ARE IN ACCORDANCE WITH:
- THE WATER SUPPLY CODE OF AUSTRALIA (WSA 03-2011-3.1) INCLUDING THE SYDNEY WATER SUPPLEMENT (2014) AND APPENDICES
- THE SYDNEY WATER TECHNICAL SPECIFICATION - CIVIL VERSION 10.
- THE SYDNEY WATER TECHNICAL SPECIFICATION - MECHANICAL VERSION 11.0.
- MAINS LAID GENERALLY 2.9 P.L. & AS SHOWN AT STANDARD DEPTH BELOW KERB INLET EXCEPT WHERE OTHERWISE SHOWN.
- ALL EXCAVATION, SHORING EXCAVATION AND STABILITY OF ADJACENT STRUCTURES/SERVICES/DWELLINGS WAS THE RESPONSIBILITY OF THE CONSTRUCTOR.
- ALL BUILDING LAYOUTS, FINISHED SURFACE LEVELS, STORMWATER INFORMATION, AND GENERAL CIVIL ENGINEERING DETAILS TAKEN FROM:
CIVIL BASEPLAN: 988512-P74-BASE FOR SERVICE DESIGN.dwg (SUPPLIED 02.12.2021 BY JWP)
SURFACE INFORMATION: Design Precinct 7 triangles 211012.dwg (SUPPLIED 04.11.2021 BY JWP)
SWD INFORMATION SUBDIVISION: Drainage LS SYSTEM C.dwg (SUPPLIED 09.11.2021 BY JWP)
- CONDITIONS FOR EMBEDMENT, BACKFILL AND TESTING REQUIREMENTS ARE AS FOLLOWS:
- ALL POTABLE WATER ROAD CARRIAGEWAY CROSSINGS FOR EXISTING AND NEW ROADS BEDDED AND BACKFILLED WITH SAND/CEMENT. SAND/CEMENT RATIO 14:1 AND WAS PLACED DRY.
- FOR ANY WATERMAIN LOCATED WITHIN 1.0m OF A ROAD SHOULDER OR KERB AND GUTTER IN THE VERGE OR FOOTPATH THE EMBEDMENT AND BACKFILL WAS COMPACTED TO A DENSITY INDEX OF 98%. ALL TESTS (EMBEDMENT AND BACKFILL) WERE DONE AS FOR TRAFFICABLE AREA.

THE MINIMUM NUMBER OF FIELD COMPACTION TESTS CONDUCTED TO SATISFY THE CONDITIONS ABOVE AS WELL AS THE WATER SUPPLY CODE OF AUSTRALIA ARE:

PIPE EMBEDMENT ZONE: 41 TESTS CONDUCTED
TRENCH FILL ZONE (TRAFFICABLE): 20 TESTS CONDUCTED
TRENCH FILL ZONE (NON-TRAFFICABLE): 62 TESTS CONDUCTED
TRENCH FILL ZONE PROPERTY SERVICES: 0 TESTS CONDUCTED
COMPACTION TESTS - TOTAL: 123 TESTS CONDUCTED
- ALL PROPERTY (MAIN TO METER) SERVICES WERE CONSTRUCTED TO SYDNEY WATER'S INSTALLATION REQUIREMENTS BY A LICENSED PLUMBER AND ACCREDITED DRILLER. THE WORKS WERE INSTALLED IN ACCORDANCE WITH THE CURRENT SYDNEY WATER PROPERTY SERVICE (MAIN TO METER) INSTALLATIONS TECHNICAL REQUIREMENTS, NSW CODE OF PRACTICE FOR PLUMBING AND DRAINAGE, AND AS/NZ 3500.
- ALL REDUNDANT SURFACE FITTINGS AND INDICATOR PLATES WERE RECOVERED.
- THE WORKS WERE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SYDNEY WATER'S DEEMED TO COMPLY DRAWINGS:
- FOR HORIZONTAL BENDS TYPE 2 DTC-1111 (ISSUE B 29.02.12)
- FOR TEES DTC-1113 (ISSUE B 29.02.12)
- FOR VERTICAL BENDS & HYDRANT BENDS DTC-1114 (ISSUE A 31.01.12)
- FOR STOP VALVES DTC-1115 (ISSUE B 29.02.12) (NOTE THAT VALVES DN200 AND UNDER DO NOT REQUIRE ANCHORING AS NOTED IN SYDNEY WATER'S EMAIL 08.08.14)



LOCALITY PLAN & BENCHMARK DIAGRAM

(NOT TO SCALE)

1	WORK AS CONSTRUCTED	JV	02.12.24
D	UP SPEC AMENDMENT	TT	12.10.23
C	STAGING CHANGE ALONG FLAMETREE DR	TT	06.10.22
B	ISSUE FOR APPROVAL	FJ	14.02.22
A	ISSUE FOR CLIENT REVIEW	FJ	25.09.21
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.

GAS Ph.

TELECOMMUNICATIONS Ph.

SYDNEY WATER Ph. 132 092

GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES			
TYPE	DATE	REF.	
EXIST. SEWER: S	25.09.21	DES.PLAN	
NEW SEWER: S	12.10.23	DES.PLAN	
STORMWATER: SWD	02.12.21	ENG.PLAN	
NEW STORMWATER: SWD	02.12.21	ENG.PLAN	
SSM 16361 (ORIGIN)	05.05.21	SCIMS	

WORK AS CREATED CERTIFICATION	
DEVELOPER	WOORONG PARK PTY LTD
WATER SERVICE CO-ORDINATOR	QALCHEK PTY LTD
CONSTRUCTOR	C.J. DOYLE CONTRACTING SERVICES PTY LTD
COMPLETED	29.10.2024
DESIGNER	QALCHEK 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
100	OPVC	PN16	2259.8	RRJ
200	OPVC	PN16	353.2	RRJ

AUSTRALIAN HEIGHT DATUM	
PLAN	1:500
CROSS SECTIONS	NATURAL

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 126/A16 41st EDITION

SHEET 1 OF 4

Sydney WATER SYDNEY WATER CORPORATION

Case No. 195241PW

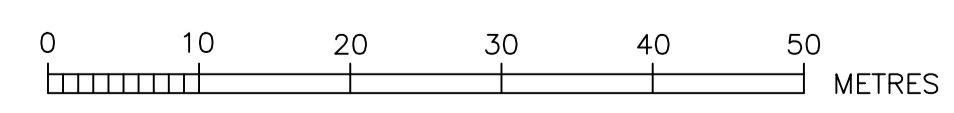
WATERMAIN ADJUSTMENT
ABELL RD AND OTHERS

MARSDEN PARK BLACKTOWN

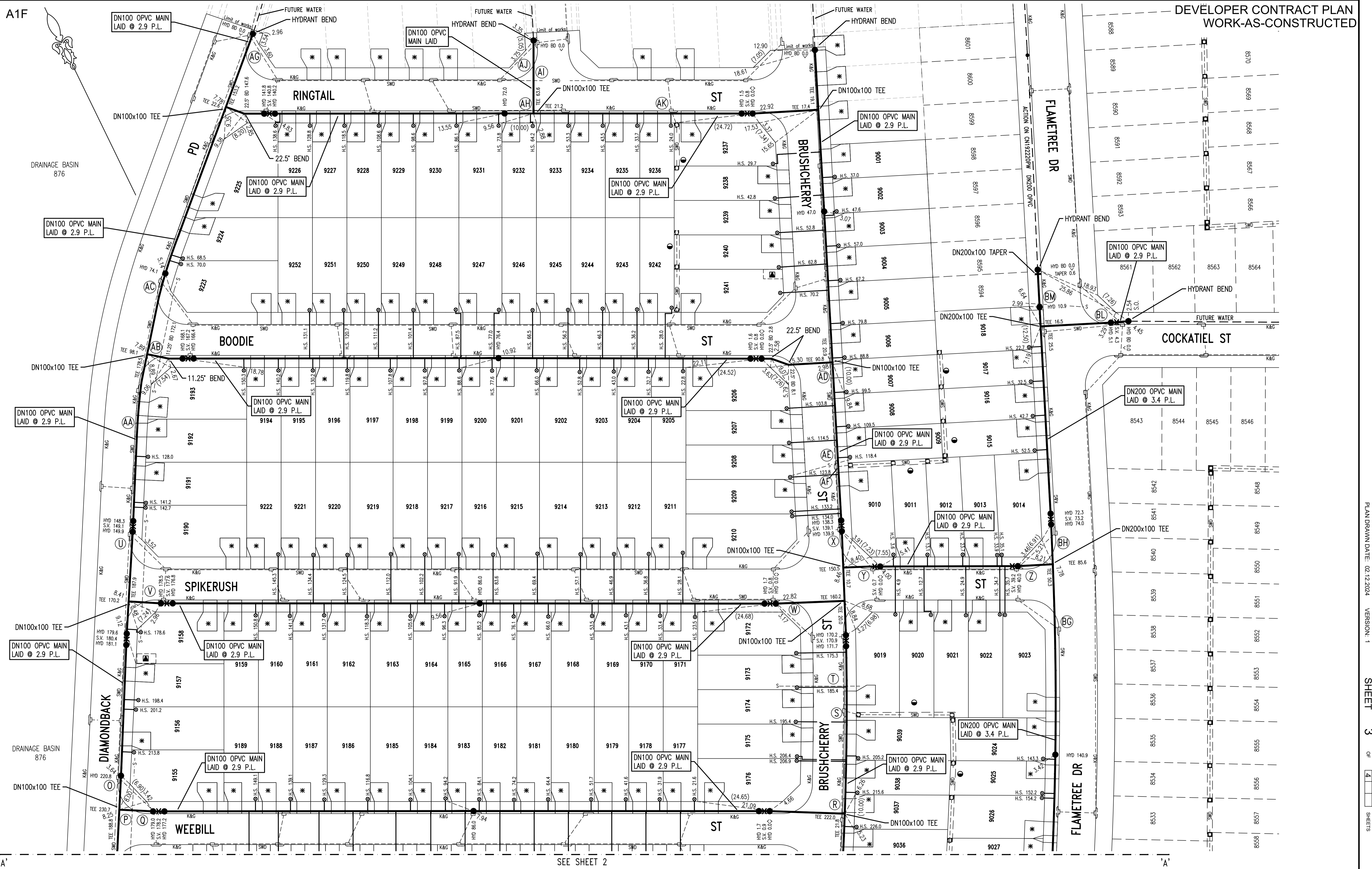


No.	AMENDMENT DESCRIPTION	BY	DATE
1	WORK AS CREATED	JV	02.12.24
D	UP SPEC AMENDMENT	TT	12.10.23
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- LEGEND
- EASEMENT FOR DRAINAGE 1.5 WIDE
 - * DRIVEWAY
 - SUBSTATION
 - ⊕ TAPPING INSERTED INTO EXISTING MAIN

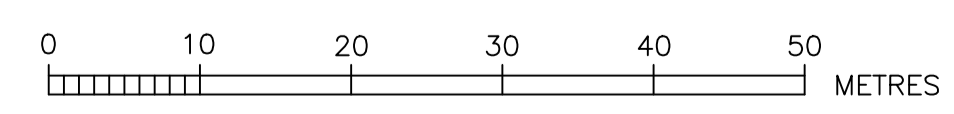


WORK AS CREATED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	Case No. 195241PW SHT 2 OF 4 SHTS.
W.S.C.	QALCHEX PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD		
COMPLETED	29.10.2024		
W.A.C. PREPARED	02.12.2024	FOR DETAILS OF SERVICES SEE SHEET 1	
DESIGNER	QALCHEX PTY LTD	ISSUED: 02.12.2024	



No.	AMENDMENT DESCRIPTION	BY	DATE
1	WORK AS CONSTRUCTED	JV	02.12.24
D	UP SPEC AMENDMENT	TT	12.10.23
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A	ISSUE FOR CLIENT REVIEW	FJ	25.09.21

- LEGEND
- EASEMENT FOR DRAINAGE 1.5 WIDE
 - * DRIVEWAY
 - SUBSTATION



SEE SHEET 2

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	Case No. 195241PW SHT 3 OF 4 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	DESIGNER	QALCHEK PTY LTD
COMPLETED	29.10.2024		
W.A.C. PREPARED	02.12.2024	I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	
		FOR DETAILS OF SERVICES SEE SHEET 1	

SERVICES CROSSING TABLE SHEET - MAIN LAID OVER UNLESS NOTED OTHERWISE

CROSSING	SERVICE	SERVICE SIZE	PW SIZE	SERVICE COVER (m)	PW COVER (m)	CLEARANCE (m)	COMMENT/DTC
'A'	SWD	DN900	DN100	1.57	0.75	0.72	N/A
'B'	Sewer	DN150	DN100	3.47	0.75	2.62	N/A
'C'	Sewer	DN150	DN100	2.70	0.75	1.85	N/A
'D'	SWD	DN900	DN100	1.32	0.75	0.47	N/A
'E'	SWD	DN375	DN100	1.09	0.75	0.24	N/A
'F'	SWD	DN450	DN100	0.98	0.70	0.15	Eased main over SWD
'G'	SWD	DN375	DN100	1.31	0.75	0.46	N/A
'H'	Sewer	DN150	DN100	2.40	0.75	1.55	N/A
'I'	SWD	DN375	DN100	1.45	0.75	0.60	N/A
'J'	SWD	DN375	DN100	1.13	0.75	0.28	N/A
'K'	SWD	DN375	DN100	1.56	0.75	0.71	N/A
'L'	Sewer	DN225	DN100	3.71	0.75	2.86	N/A
'M'	SWD	DN375	DN100	1.87	0.75	1.02	N/A
'N'	SWD	DN375	DN100	1.10	0.75	0.25	N/A
'O'	SWD	DN675	DN100	1.78	0.75	0.93	N/A
'P'	Sewer	DN225	DN100	2.97	0.75	2.12	N/A
'Q'	SWD	DN675	DN100	1.44	0.75	0.59	N/A
'R'	SWD	DN375	DN100	1.30	0.75	0.45	N/A
'S'	SWD	DN375	DN100	1.09	0.75	0.24	N/A
'T'	Sewer	DN150	DN100	2.35	0.75	1.50	N/A
'U'	SWD	DN750	DN100	2.67	0.75	1.82	N/A
'V'	Sewer	DN150	DN100	2.17	0.75	1.32	N/A
'W'	SWD	DN525	DN100	1.99	0.75	1.14	N/A
'X'	SWD	DN375	DN100	1.12	0.75	0.27	N/A
'Y'	SWD	DN375	DN100	1.40	0.75	0.55	N/A
'Z'	SWD	DN375	DN100	1.11	0.75	0.26	N/A
'AA'	SWD	DN1200	DN100	2.76	0.75	1.91	N/A
'AB'	Sewer	DN150	DN100	1.67	0.75	0.82	N/A
'AC'	SWD	DN450	DN100	2.23	0.75	1.38	N/A
'AD'	SWD	DN375	DN100	1.13	0.75	0.28	N/A
'AE'	Sewer	DN150	DN100	2.32	0.75	1.47	N/A
'AF'	SWD	DN375	DN100	1.09	0.75	1.09	N/A
'AG'	SWD	DN375	DN100	1.60	0.75	1.60	N/A
'AH'	SWD	DN375	DN100	1.46	0.75	1.46	N/A
'AI'	SWD	DN375	DN100	1.15	0.75	1.15	N/A
'AJ'	SWD	DN375	DN100	1.14	0.75	1.14	N/A
'AK'	SWD	DN375	DN100	1.09	0.75	1.09	N/A
'BD'	SWD	DN375	DN100	1.11	0.75	0.26	N/A
'BG'	SWD	DN375	DN200	1.13	0.75	0.18	N/A
'BH'	SWD	DN375	DN200	1.10	0.75	0.15	N/A
'BL'	SWD	DN375	DN100	1.91	0.75	0.96	N/A
'BM'	Sewer	DN150	DN200	3.17	0.75	2.22	N/A

1	WORK AS CONSTRUCTED	JV	02.12.24
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WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	Case No. 195241PW SHT 4 OF 4 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
COMPLETED	29.10.2024		
W.A.C. PREPARED	02.12.2024		
DESIGNER	QALCHEK PTY LTD		
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