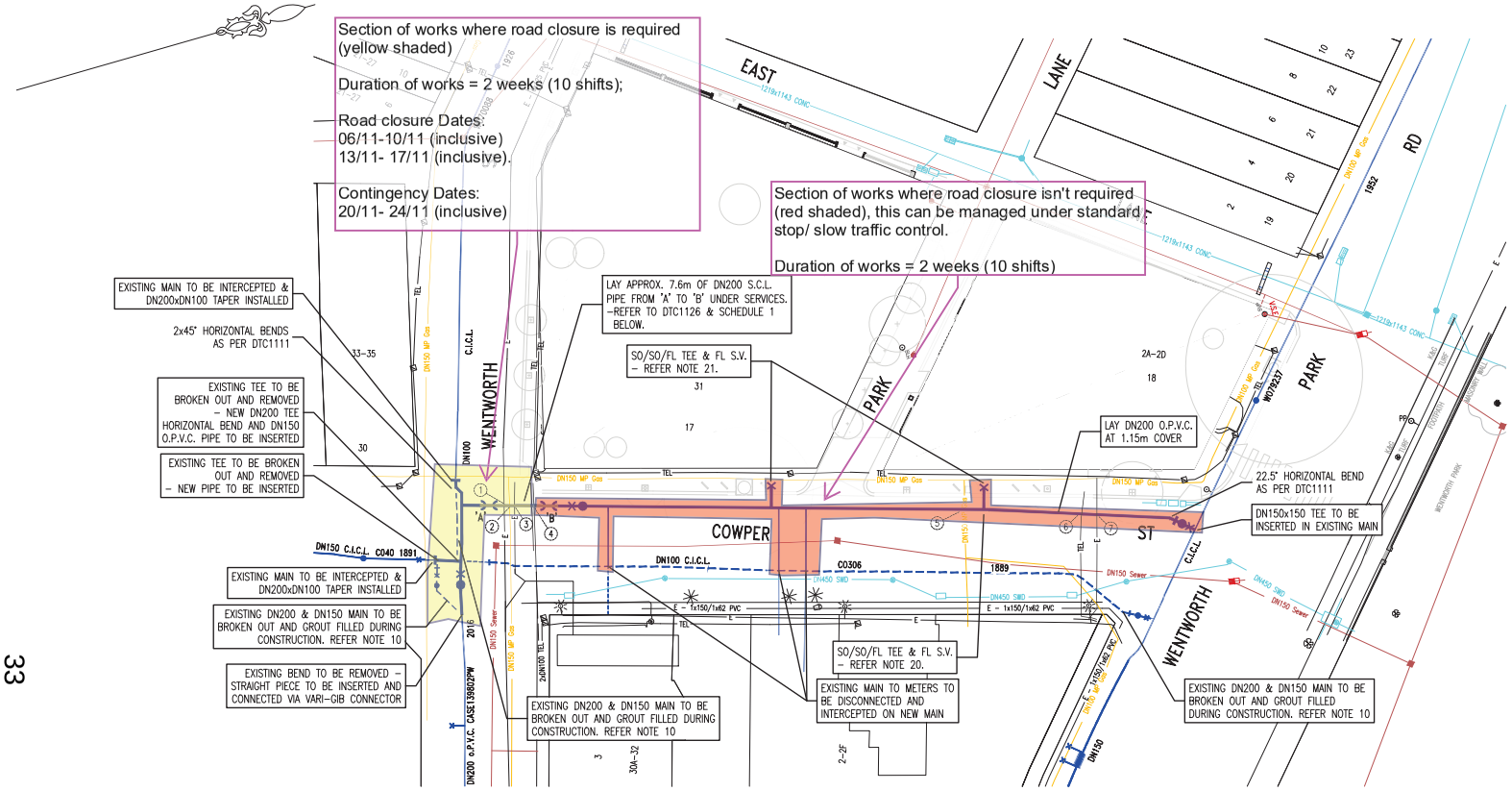
A1

DEVELOPER CONTRACT PLAN



LEGEND

- PROPOSED STOP VALVE
- PROPOSED HYDRANT
- VERTICAL BEND

TABLE 1 SERVICES CLEARANCE * REFER NOTE 2

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
1	ELECTRICAL	0.65m	1.79m	0.65m	UNDER
2	GAS	0.59m	1.79m	1.05m	UNDER
3	ELECTRICAL	0.65m	1.79m	0.99m	UNDER
4	TELSTRA	0.41m	1.79m	1.28m	UNDER
5	GAS	0.50m	1.15m	0.55m	UNDER
6	TELSTRA	0.60m	1.15m	0.40m	UNDER
7	ELECTRICAL	0.70m	1.15m	0.30m	UNDER

CROSSING UNDER OBSTRUCTIONS SCHEDULE 1

REFER TO DTC – 1126

No.	MAIN SIZE	TYPE	R	V1	Z1	L1	W	Z2	L2
'A' – 'B'	219	S.C.L.	600	500	800	800	5000	800	800

ALL MEASUREMENTS IN MILLIMETERS

NOTES :-

WATER SERVICING COORDINATOR & DESIGNER:
AT&L & ASSOCIATES
L7, 153 WALKER ST, NORTH SYDNEY NSW 2060
PH: (02)9439 1777 FAX: (02)9460 8413

FOR:
NSW LAND AND HOUSING CORPORATION
LEVEL 4, 4 PARRAMATTA SQUARE, 12 DARCY STREET, PARRAMATTA 2150
PH: 0436 666 083

1. ALL WORKS & MATERIALS ARE TO BE IN ACCORDANCE WITH THE WATER SUPPLY CODE OF AUSTRALIA WSA 03–2011–3.1 (SYDNEY EDITION – 2014).
2. SERVICES SHOWN IN PLAN ARE BASED ON SURVEY PROVIDED BY UTILITY MAPPING, DRAWING NSW23–US–01, DATED 22/03/23. UNIDENTIFIED SERVICES MAY STILL BE PRESENT ON SITE. ANY UNIDENTIFIED SERVICES LOCATED, SHOULD BE IDENTIFIED AND SUITABLE MEASURES TAKEN.
3. THE CONSTRUCTOR IS TO DETERMINE LEVELS & LOCATIONS OF SERVICES PRIOR TO CONSTRUCTION.
4. MAIN LAID GENERALLY AT MIN. 750 COVER BELOW EXISTING SURFACE UNLESS OTHERWISE SHOWN ON PLAN.
5. CONSTRUCTOR TO COORDINATE AND LIAISE WITH ALL RELEVANT AUTHORITIES.
6. PRECAUTIONS TO BE TAKEN WHERE NECESSARY IN THE VICINITY OF SUB–STATION EARTHING.
7. ALL STRUCTURES TO BE CONSTRUCTED TO PROPOSED FINISHED SURFACE LEVELS. THE CONSTRUCTOR IS TO LIAISE WITH THE SITE SUPERINTENDENT TO VERIFY ALL FINAL LEVELS.
8. THE EMBEDMENT OF THE MAINS SHALL BE CEMENT STABILISED SAND TYPE 'L' AS PER WAT–1204–V.
9. CONSTRUCTOR TO LIAISE WITH SITE SUPERINTENDENT REGARDING USE OF 20:1 STABILISED SAND CEMENT IN LIEU OF EMBEDMENT AND/OR TRENCH FILL COMPACTION TESTING.
10. BREAK OUT AND GROUT FILL EXISTING DN100 C.I.C.L. WATERMAIN ACROSS COWPER STREET (71.6m APPROX.). BREAK OUT AND GROUT FILL EXISTING DN150 C.I.C.L. WATERMAIN ACROSS WENTWORTH STREET (9.2m APPROX.). BREAK OUT AND GROUT FILL EXISTING DN200 o.P.V.C. WATERMAIN ACROSS WENTWORTH STREET (5.6m APPROX.).
11. RECOVER SURFACE FITTINGS & TRANSFER SERVICES AS REQUIRED. SIZE & TYPE OF WATER SERVICE CONNECTIONS/DISCONNECTIONS SHOWN IN THIS PLAN ARE INDICATIVE ONLY AND THESE ARE TO BE DETERMINED ON–SITE DURING CONSTRUCTION (INCLUDING FIRE SERVICES). CONSTRUCTOR TO DETERMINE TOTAL RECONNECTIONS REQUIRED ON–SITE INCLUDING ALL TEMPORARY CONNECTIONS.
12. COMPACTION TESTS TO BE UNDERTAKEN IN ACCORDANCE WITH CLAUSE 19.3 OF WSA 03–2011–3.1:
PIPE EMBEDMENT ZONE: NIL – ** REFER NOTE 8 & 22**
TRENCH FILL ZONE – TRAFFICABLE: NIL (TOP LAYER OF CEMENT STABILIZED SAND BACKFILLING) REFER NOTE 8 & 22 .
TRENCH FILL ZONE – NON TRAFFICABLE: NIL REFER NOTE 22.
13. DEFLECTIONS MAY BE ACHIEVED BY EASING MAIN AT PIPE JOINTS & MAY REQUIRE EASING AT MULTIPLE PIPE JOINTS TO ACHIEVE REQUIRED DEFLECTIONS SPECIFIED. PIPE DEFLECTIONS SHALL NOT EXCEED MANUFACTURERS RECOMMENDATIONS AND TO BE DONE IN ACCORDANCE TO WAT–1250–S V3 & WAT–1251–S V3.
14. WATER MAIN TO CROSS UNDER/OVER THE EXISTING SERVICES WITH THE MINIMUM CLEARANCES SPECIFIED IN TABLE 1 & TABLE 5.5 OF WATER SUPPLY CODE OF AUSTRALIA WSA 03–2011–3.1 (SYDNEY WATER EDITION – 2014)
15. SUBSURFACE CONDITIONS, INCLUDING FILL, GROUNDWATER, CONTAMINATION, AND UNRECORDED BURIED MATERIAL OR OBJECTS ENCOUNTERED DURING CONSTRUCTION TO BE NOTIFIED TO DESIGNER, FOR FURTHER GEOTECHNICAL ASSESSMENT AND APPLICATION OF THE APPROPRIATE CONSTRUCTION METHODS AND STANDARDS.
16. SYDNEY WATER REQUIREMENTS FOR CONTRACTOR ELECTRICAL SAFETY TO BE APPLIED IN CONJUNCTION WITH THE PROJECT SAFETY PLAN AND THE WORK METHOD STATEMENT.
17. FOR WORK–AS–CONSTRUCTED PURPOSES FIXTURES, TEES BENDS AND EVERY CHANGE OF DIRECTION (VERTICAL OR HORIZONTAL) NOT TO BE BACKFILLED UNTIL WAC DETAILS ARE OBTAINED AND RECORDED BY THE DESIGNER AND SURVEYED BY SITE SURVEYOR AND APPROVED BY THE WATER SERVICING CO–ORDINATOR. RELEVANT SURVEYED INFORMATION TO BE ADDED ON A SITE PLAN BY SURVEYOR AND TO BE SUPPLIED TO DESIGNER IN AUTOCAD FORMAT FOR INCLUSION ON WAC DRAWINGS. FOR AREAS WHERE MAINS CANNOT BE TIED TO PROPERTY BOUNDARIES, MAINS TO BE SURVEYED AND COORDINATES PROVIDED TO DESIGNER SO MAINS CAN BE TIED TO SSM OR PM.
18. * DENOTES EXISTING MAIN TO METERS TO BE INTERCEPTED ON NEW MAIN. RECOVER SURFACE FITTINGS AND TRANSFER AS REQUIRED, SIZE AND TYPE OF WATER SERVICE CONNECTIONS/RECONNECTIONS SHOWN IN THIS PLAN ARE INDICATIVE ONLY AND THESE ARE TO BE DETERMINED ON–SITE DURING CONSTRUCTION (INCLUDING FIRE SERVICES). CONSTRUCTOR TO DETERMINE TOTAL RECONNECTIONS REQUIRED ON–SITE INCLUDING ALL TEMPORARY CONNECTIONS.
19. PLAN PREPARED ON GDA2020 COORDINATES
20. ALL SURFACE FITTINGS TO HAVE CLASS "D" LIDS AS PER WAT–1305–V & WAT–1306–V.
21. TEE & VALVE CONNECTION FOR DOMESTIC/FIRE SERVICE SUBJECT TO S.W.C. APPROVAL PRIOR TO INSTALLATION (APPLICATION VIA TAP–IN). CONSTRUCTOR TO LIAISE WITH SITE SUPERINTENDENT TO CONFIRM SIZE, LOCATION & STATUS OF S.W.C APPROVAL PRIOR TO INSTALLATION.
22. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE SEWERAGE CODE OF AUSTRALIA (CLAUSE 22.3.4.4) AND SYDNEY WATERS TECHNICAL SPECIFICATION – CIVIL SHALL BE DETERMINED AND INCLUDED IN THE COMPACTION QUALITY ASSURANCE PLAN WHICH IS TO BE CONSTRUCTOR AND SUBMITTED TO THE WSC AND SYDNEY WATER FOR ACCEPTANCE.
23. ALL DI FITTINGS TO BE WRAPPED IN POLYETHYLENE SLEEVING. TAPE 700 LONG PE SLEEVING TO END OF DICL PIPE TO BE ENCASED 150 FROM THE SOCKET FACE TO OVERLAP PE SLEEVED DICL PIPE. WHEN CONNECTING TO PE PIPE (WITHOUT PE SLEEVE) TAPE 700 LONG PE SLEEVE TO PE PIPE. POLYETHYLENE SLEEVING TO PS–320_SW.
24. DUCTILE IRON IPES IN ACCORDANCE WITH WSA–PS–201 & AS2280. ALL CEMENT MORTAR LINED PIPES OF SIZE DN300 AND LESS SHALL BE SEAL COATED. DI FITTINGS SHALL BE FBPE COATED TO AS4158.
25. DEFLECTIONS AT DICL PIPE JOINTS TO BE LIMITED TO MANUFACTURER LIMITS MINUS 0.5 DEGREES TO BE COMPLIANT WITH SYDNEY WATER STANDARDS.

DEEMED TO COMPLY :–

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SYDNEY WATER DEEMED TO COMPLY GUIDELINES AND DETAILS.
2. CONSTRUCTOR SHALL HAVE A COPY OF THE CURRENT SYDNEY WATER DEEMED TO COMPLY DRAWINGS REFERENCED BELOW AT ALL TIMES & THE DESIGN PLANS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT DEEMED TO COMPLY DETAIL.

2.1. REFER DTC 1110 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 1 – ISSUE A 31/01/2012
2.2. REFER DTC 1111 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 2 – ISSUE B 29/02/2012
2.3. REFER DTC 1112 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C ≤ DN300 TAPERS – ISSUE B 29/02/2012
2.4. REFER DTC 1113 – THRUST BLOCK DETAILS TEES – ISSUE B 29/02/2012
2.6. REFER DTC 1115 – ANCHORAGE DETAILS DICL AND PVC WATER MAINS ≤ DN300 STOP VALVES – ISSUE B 29/02/2012
2.6. REFER DTC 1126 – CROSSINGS UNDER OBSTRUCTIONS WATER ≤ DN300 – ISSUE A 31/01/2012

WATER SUPPLY CODE WSA–03 DRAWINGS:

1. REFER TO WAT–1204–V – SPECIAL EMBEDMENT TYPE 'L' – VERSION 2 ISSUED 2012
2. REFER TO WAT–1250–S – STANDARD TRENCH DETAILS TRANSFERS AND DISTRIBUTION MAINS DN100 TO DN375 – VERSION 3 ISSUED 2012
3. REFER TO WAT–1301–V – TYPICAL VALVE & HYDRANT INSTALLATION – VERSION 2 ISSUED 2012
4. REFER TO WAT–1303–V/WAT–1304–V – TYPICAL SURFACE FITTING INSTALLATION SLUICE VALVE – VERSION 2 ISSUED 2012
5. REFER TO WAT–1305–V/WAT–1306–V – TYPICAL SURFACE FITTING INSTALLATION HYDRANT – VERSION 3 ISSUED 2013

No.	AMENDMENT DESCRIPTION	BY	DATE
04	ALIGNMENT VARIATION	A.O.	20/09/23
04	ALIGNMENT VARIATION	A.O.	09/08/23
03	ADDED HYD. & LONG SECTION DETAIL	P.T.	24/04/23
02	ISSUE FOR REVIEW	A.O.	06/02/23
01	ISSUE FOR REVIEW	A.O.	17/11/22

0 5 10 15 25 METRES

GDA2020

CONTACT DIAL BEFORE YOU DIG

MAJOR TELECOMMUNICATION/OPTICAL FIBRE CABLES ARE LOCATED IN THIS AREA. SITE LOCATION CHECK AND FIELD VERIFICATION BY APPROVED PLANT LOCATORS IS MANDATORY PRIOR TO CONSTRUCTION. LOCATION OF SERVICES SHOWN ON PLAN IS INDICATIVE ONLY. CONTACT DIAL BEFORE YOU DIG PRIOR TO CONSTRUCTION.

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 ..... AUSGRID ..... Ph. 131 388
GAS ..... JEMENA ..... Ph. 131 909
TELECOMMUNICATIONS ..... TELSTRA ..... Ph. 132 203
..... Ph. .....
GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES

TYPE	DATE	REF.	TYPE	DATE	REF.
EX WATER:	21/12/21	HYDRA			
EXISTING SWD: —— SWD ——	08/04/22	SURVEY			
ENERGY AUST: —— E ——	10/10/22	DBYD			
EXISTING TEL: —— TEL ——	10/10/22	DBYD			
EXISTING SEWER: --s-- S --s--	21/12/21	HYDRA			
EXISTING GAS: —— GAS ——	10/10/22	DBYD			

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
WATER SERVICE CO-ORDINATOR .....
CONSTRUCTOR .....
COMPLETED ..... W.A.C. PREPARED .....

DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

PIPE SCHEDULE

SIZE ON	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
200	D.I.C.L.	PN16	87.6m	RRJ
219OD	S.C.L.	PN16	7.6m	WELDED

DESIGN HEAD, 120 m — BOUNDARY TRAPS REQUIRED.

AUSTRALIAN HEIGHT DATUM

SCALES
PLAN 1:250 ..... SECTION { HOR ..... VERT .....
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 ..... MAP12, M12 (41ST ED.)
SHEET ..1.. OF ..1.. File No. N/A

SYDNEY WATER CORPORATION
WATER
Case No.196477PW
WATERMAIN EXTENSION
COWPER STREET
GLEBE SYDNEY

PLAN DRAWN DATE: 20/09/2023 VERSION: 05 SHEET 1 OF 1 SHEETS

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