

- DESIGNER AND WSC:
ORION CONSULTING ENGINEERS PTY LTD
SUITE 4.04/12 Century Circuit, Norwest, NSW 2153
PH: 02 8660 0035
www.theoriongroup.au
- FOR: MIRVAC HOMES (NSW) PTY LTD
ADDRESS : LEVEL 28/200 GEORGE ST SYDNEY NSW 200
CONTACT : 0416 623 295
2. THE PROPOSED WORKS AND MATERIALS IN ACCORDANCE WITH THE SYDNEY WATER TECHNICAL SPECIFICATION – CIVIL VERSION 11.0 AS WELL AS THE SEWERAGE CODE OF AUSTRALIA WSA 02-2002-2.2 SYDNEY WATER EDITION VERSION 4 (2017) INCLUDING THE SYDNEY WATER SUPPLEMENT & APPENDICES. THE CONTRACTOR MUST HAVE A COPY OF THESE ON SITE AT ALL TIMES.
3. ALL STRUCTURES CONSTRUCTED TO PROPOSED FINISHED SURFACE LEVELS. ALL LEVELS REFER TO PROPOSED FINISHED SURFACE LEVELS. CONTRACTOR TO LIAISE WITH ROAD AND/OR CIVIL CONTRACTOR TO VERIFY ALL LEVELS IN PARTICULAR IN OR ADJACENT TO ROADS. WSC WAS INFORMED OF ANY DISCREPANCIES.
4. ALL BUILDING LAYOUTS, FINISHED SURFACE LEVELS, STORMWATER INFORMATION, AND GENERAL CIVIL ENGINEERING DETAILS TAKEN FROM 'ORION CONSULTING ENGINEERS' ENGINEERING PLANS REVISION 'A' DATED '03.10.24'
5. THE CONTRACTOR APPLIED THE CONDITIONS OF THE SYDNEY WATER TECHNICAL SPECIFICATION – CIVIL VERSION 11.0 REGARDING BACKFILLING AND TESTING (SECTIONS C2.7 AND C2.8). A CONSTRUCTION QUALITY ASSURANCE PLAN SUBMITTED TO THE WSC AS PER THE REQUIREMENTS. THIS PLAN IS TO CLEARLY SPECIFY THE NUMBER OF TESTS REQUIRED FOR THE WORKS.
- THE NUMBER OF TESTS COMPLETED TO SATISFY THE TECHNICAL SPECIFICATION IS:
- TRENCH FILL ZONE: 36 TESTS
MAINTENANCE STRUCTURE FILL ZONE: 60 TESTS
- NOTE: A HIGHER LEVEL OF COMPACTION COMPLIED (FOR EXAMPLE TNSW OR COUNCIL REQUIREMENTS), THE CONTRACTOR LIAISED WITH THE SITE SUPERINTENDENT REGARDING REQUIREMENTS.
6. ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
7. THE REVIEW OF ENVIRONMENTAL FACTORS WAS AN INTEGRAL PART OF THIS DESIGN AND WAS READ IN CONJUNCTION WITH THIS PLAN. ALL MITIGATION MEASURES IN THE REF WERE ADHERED TO.
8. PRIOR TO ANY EXCAVATION THE CONTRACTOR HAD A CURRENT COPY OF THE UNDERGROUND SERVICES REPORT, THIS WAS READ IN CONJUNCTION WITH THIS PLAN.
9. SERVICES SHOWN FROM 'DIAL BEFORE YOU DIG' SERVICES SEARCH ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO ANY EXCAVATION WORKS ON SITE.
10. BUILDING OVER/ADJACENT TO SEWER – CONDITIONS MAY APPLY. REFER TO ORION CONSULTING ENGINEERS PTY LTD FOR DETAILS.
11. ALL EXCAVATION, SHORING EXCAVATION AND STABILITY OF ANY ADJACENT STRUCTURES, SERVICES OR DWELLINGS WAS THE RESPONSIBILITY OF THE CONTRACTOR. USE OF SHORING BOXES WAS NOT A FORM OF STABILITY CONTROL. NEITHER WAS SAND CEMENT BACKFILL OR CONCRETE ENCASEMENT.
12. ALL JUNCTIONS FOR THE PCS'S LOCATED 0.7m MIN. OFF THE DOWNSTREAM PROPERTY BOUNDARY (CURRENT AND FUTURE) OR DOWNSTREAM EASEMENT BOUNDARY OR MINIMUM 1.0m MIN. OFF THE DOWNSTREAM STRUCTURE. ALL PCS'S WERE CLEAR OF DRIVEWAYS, FOR LOCATION OF DRIVEWAYS CONTRACTOR TO LIAISE WITH CIVIL CONTRACTOR OR SITE SUPERINTENDENT FOR CONFIRMATION OF LOCATIONS.
— DENOTES STANDARD PCS CONNECTION (REFER DTC-2120 ISSUE B DATE 31.07.24)
13. IT WAS THE CONTRACTORS RESPONSIBILITY TO PROVIDE THE CHAINAGES FOR THE PCS's, THE LENGTH OF THE PCS's, THE TYPE OF CONNECTION USED, THE LOCATION OF THE IO AND THE INVERT LEVEL AT THE PCP (IF APPLICABLE) TO THE WSC FOR WAC PURPOSES.
14. THE TOTAL LENGTH OF THE DN100 PCS'S EXCLUDING RISERS IS APPROXIMATELY 17.0m. PCS'S HAVE MINIMUM STIFFNESS RATING OF SNT10. JOINTING WAS SOLVENT WELDED.
15. CONTRACTOR ENSURED THAT WORKS ARE CONSTRUCTED IN ACCORDANCE WITH SYDNEY WATER'S DEEMED TO COMPLY DRAWINGS:
FOR ALL MH'S DTC-2000 (ISSUE D 31.07.24), DTC-2220 (ISSUE E 31.07.24), DTC-2202 (ISSUE F 31.07.24), DTC-2203 (ISSUE C 31.07.24), DTC-2221 (ISSUE D 31.07.24), DTC-2222 (ISSUE D 31.07.24), DTC-2223 (ISSUE C 31.07.24)
16. CONCRETE ENCASED PIPE SHOWN ACCORDINGLY:  – REFER TO SEW-1205-V
17. AREAS HATCHED THUS NOT DRAINED:- 
18. ALL MCA & MSA CONFORMED TO WSA-137-2019 VERSION 3.1, 'INDUSTRY STANDARD FOR UNPLASTICISED POLYVINYL CHLORIDE (PVCU), POLYPROPYLENE (PP) AND POLYETHYLENE (PE) MAINTENANCE SHAFTS, MAINTENANCE CHAMBERS MAINTENANCE HOLES FOR SEWERAGE'.
19. ANY CONCRETE WORKS CONFORMED TO SECTION 3 TECHNICAL SPECIFICATION – CIVIL VERSION 11.0, CONCRETE TESTING UNDERTAKEN AS PER SECTION 3.12.
20. THE CONSTRUCTOR USED PRODUCTS AND MATERIALS APPROVED FOR USE BY SYDNEY WATER.

MAINTENANCE STRUCTURE SCHEDULE						
LINE	CHAINAGE	TYPE	DN RISER	CLASS OF COVER	MATERIAL	COMMENTS
1	16.68	M.C.	DN600	B	P.P.	AWASHAFT PP 600
1	21.48	M.C.	DN600	B	P.P.	AWASHAFT PP 600
1	49.20	M.C.	DN600	B	P.P.	AWASHAFT PP 600
1	55.40	M.C.	DN600	B	P.P.	AWASHAFT PP 600
1	143.13	M.H.	DN1050	B	CONCRETE	DTC-2203
1	200.36	M.S.	DN300	B	P.V.C.	
1	318.44	M.C.	DN600	B	P.P.	AWASHAFT PP 600
2	52.02	T.M.S.	DN300	B	P.V.C.	
3	42.17	T.M.S.	DN300	B	P.V.C.	
4	2.50	M.C.	DN600	B	P.P.	AWASHAFT PP 600
4	57.80	M.C.	DN600	B	P.P.	AWASHAFT PP 600

4	WORK AS CONSTRUCTED	RA	1.06.2026
3	L1 CH270.94-294.94 TO BE BORED	RA	14.11.2025
2	LABELED MC AT MC SYMBOLS AS PER SWC COMMENTS	RA	26.2.2025
1	ISSUE FOR APPROVAL	RA	31.1.2025
No.	AMENDMENT 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 :-		PROP. WATER: DN100 WATER — — DN100 WATER	15.11.24	DESIGN			
		PROP. STORMWATER: SWD — — — — SWD	03.10.24	ENG.			
DIAL BEFORE YOU DIG	Ph. 1100						
ELECTRICITY, ENDEAVOUR ENERGY	Ph. 131 003						
GAS JEMENA GAS	Ph. 1300 880 906						
TELECOMMUNICATIONS, TELSTRA	Ph. 1800 114 918						
SYDNEY WATER	Ph. 132 092						
GIVING AT LEAST 48 HOURS NOTICE.							

WORK AS CONSTRUCTED CERTIFICATION			
DEVELOPER	MIRVAC HOMES PTY LTD		
WATER SERVICE CO-ORDINATOR	ORION CONSULTING ENGINEERS PTY LTD		
CONSTRUCTOR	GLENMORE PARK PLUMBING & DRAINAGE		
COMPLETED	06.05.2026	W.A.C. PREPARED	01.06.2026
DESIGNER	R. Awad		
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	470.43	RRJ
355OD	SCL	6.5 PL	24.0	BORE ENCASING PIPE
DESIGN HEAD. . . m	NO BOUNDARY TRAPS REQUIRED.			

GDA 2020
AUSTRALIAN HEIGHT DATUM

SCALES

PLAN . 1:500 . SECTION { HOR. . 1:500 .
VERT. . 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 . . . MAP.304/A13 .41th.edition. . .

SHEET. 1 . OF . 5 .	File No. 23-0580
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Sydney

WATER

Sydney WATER CORPORATION

Case No. 217504WW

WEST CAMDEN SEWERAGE

DRAINS TO

WEST CAMDEN STP

VIA SP1161 AND SP0673

