

1. 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 LIAISED 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 'B' DATED '18.03.25'

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 HE NUMBER OF TESTS REQUIRED FOR THE WORKS.

THE NUMBER OF TESTS COMPLETED TO SATISFY THE TECHNICAL SPECIFICATION IS:

TRENCH FILL ZONE: 31 TESTS
MAINTENANCE STRUCTURE FILL ZONE: 52 TESTS

NOTE: A HIGHER LEVEL OF COMPACTION COMPLIED (FOR EXAMPLE TINSW 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 WAS 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 WERE INDICATIVE ONLY AND WERE 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 WERE 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 CLEARED OF DRIVEWAYS, FOR LOCATION OF FUTURE LOTS AND DRIVEWAYS CONTRACTOR LIAISED 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 CONTRACTOR'S 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 ARE 11.0m. PCS's TO HAVE MINIMUM STIFFNESS RATING OF SN10. JOINTING WERE SOLVENT WELDED.

15. CONTRACTOR TO ENSURE THAT WORKS WERE 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. PIPES CONCRETE ENCASED SHOWN ACCORDINGLY:  – REFER TO SEW-1205-V

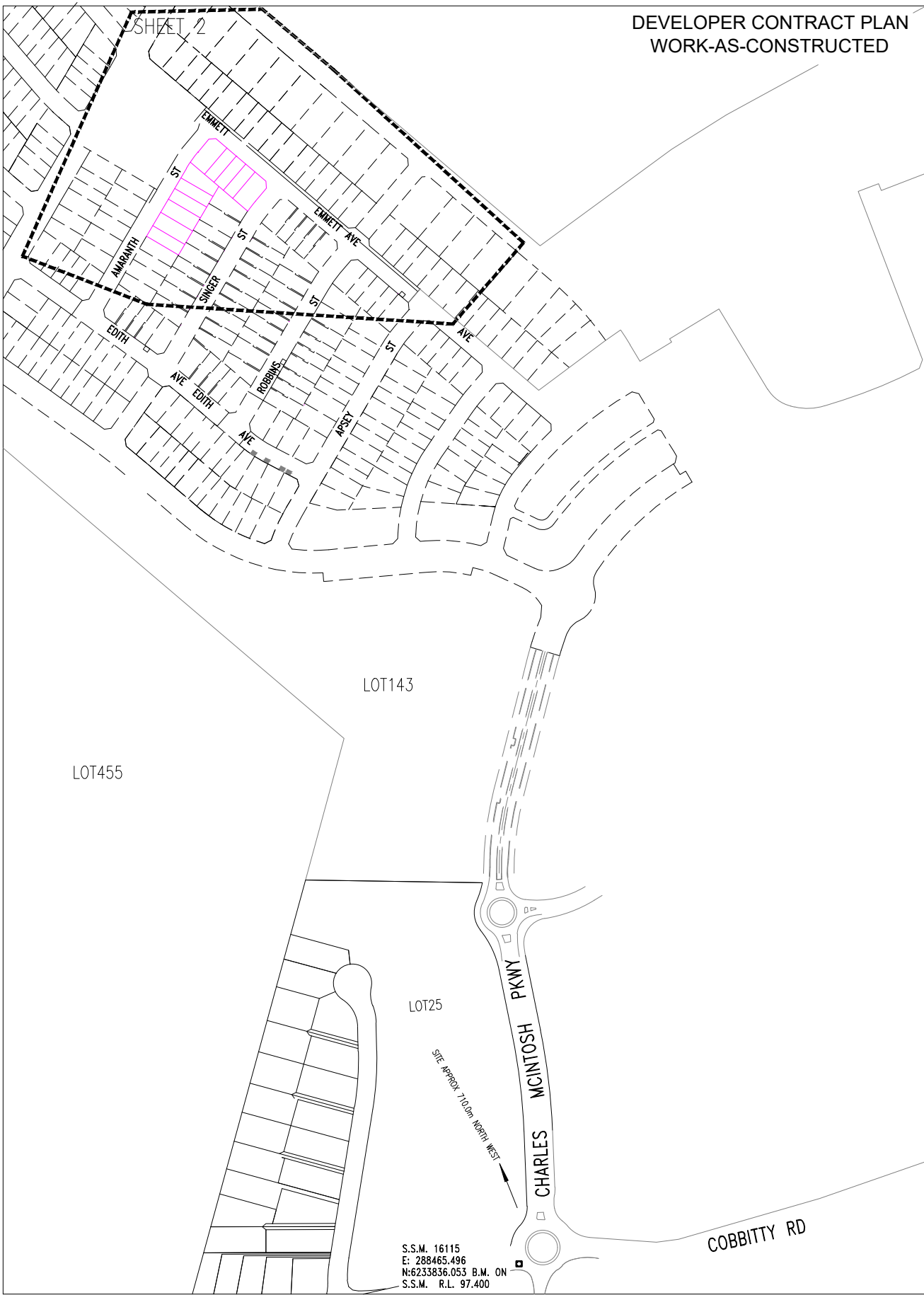
17. ALL MCS & MSs CONFORMED TO WSA-137-2019 VERSION 3.1, "INDUSTRY STANDARD FOR UNPLASTICISED POLYVINYL CHLORIDE (PVCU), POLYPROPYLENE (PP) AND POLYETHYLENE (PE) MAINTENANCE SHAFTS, MAINTENANCE CHAMBERS AND MAINTENANCE HOLES FOR SEWERAGE".

18. ANY CONCRETE WORKS CONFORMED TO SECTION 3 TECHNICAL SPECIFICATION – CIVIL VERSION 11.0, CONCRETE TESTING WERE UNDERTAKEN AS PER SECTION 3.12.

19. THE CONSTRUCTOR USED PRODUCTS AND MATERIALS APPROVED FOR USE BY SYDNEY WATER.

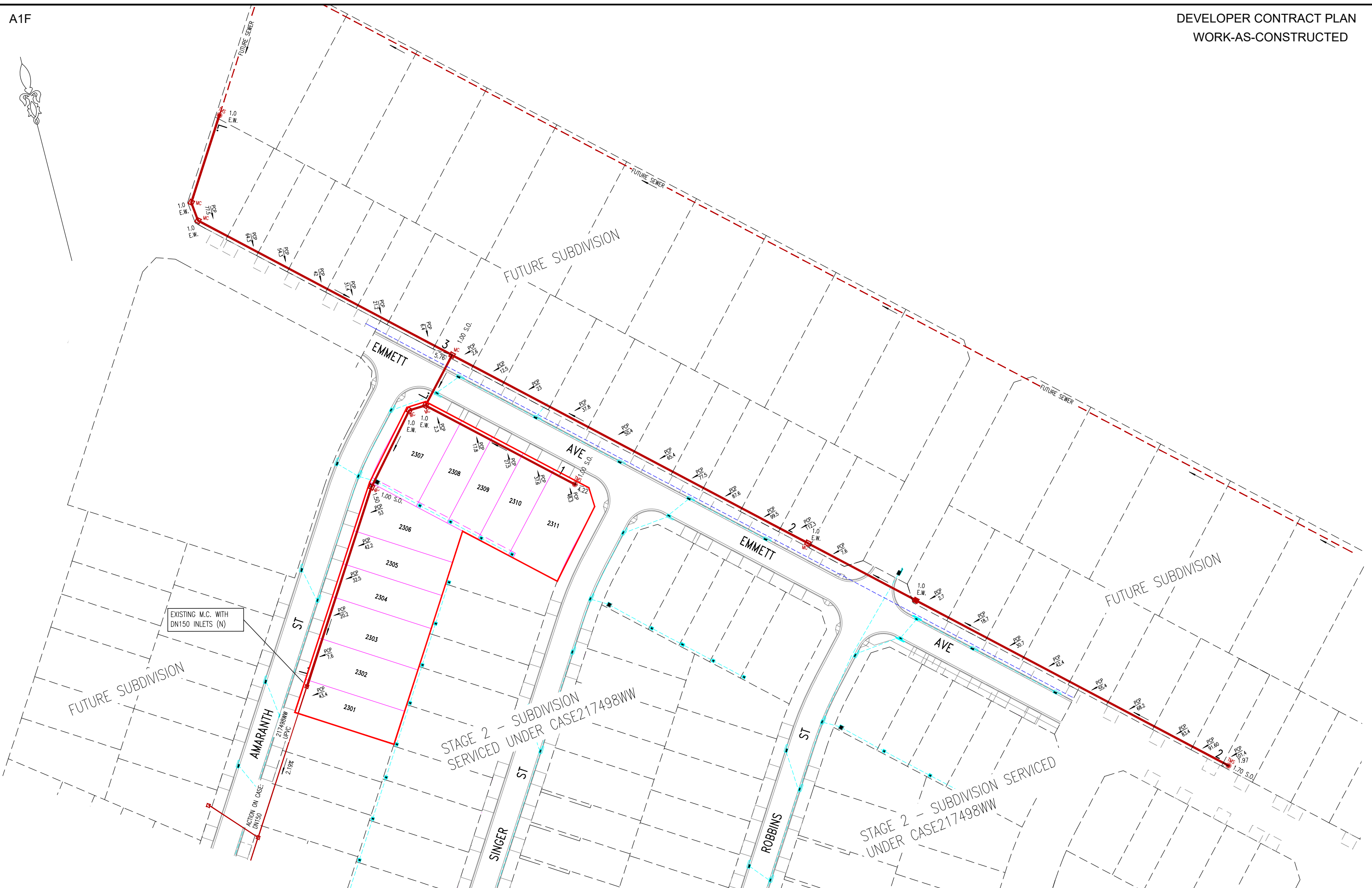
20. BOUNDARIES FOR FUTURE LOTS PEGGED BY PROJECT SURVEYOR PRIOR TO CONSTRUCTION OF SEWER STRUCTURES AND JUNCTION ON FUTURE LOTS.

MAINTENANCE STRUCTURE SCHEDULE						
LINE	CHAINAGE	TYPE	DN RISER	CLASS OF COVER	MATERIAL	COMMENTS
1	60.43	M.C.	DN600	B	P.P.	AWASHAST PP 600
1	85.03	M.C.	DN600	B	P.P.	AWASHAST PP 600
1	89.86	M.C.	DN600	B	P.P.	AWASHAST PP 600
1	138.49	T.M.S.	DN300	B	P.V.C.	
2	16.40	M.C.	DN600	B	P.P.	AWASHAST PP 600
2	132.23	M.C.	DN600	B	P.P.	AWASHAST PP 600
2	167.46	M.H.	DN1050	B	CONCRETE	DTC-2203
2	269.25	T.M.S.	DN300	B	P.V.C.	
3	82.78	M.C.	DN600	B	P.P.	AWASHAST PP 600
3	88.35	M.C.	DN600	B	P.P.	AWASHAST PP 600
3	114.70	T.M.S.	DN300	B	P.V.C.	



3	WORK AS CONSTRUCTED	RA	25.06.2025
2	ISSUE FOR APPROVAL	RA	20.8.2025
1	ISSUE FOR TENDER ONLY	RA	14.7.2025
No.	AMENDMENT DESCRIPTION	BY	DATE

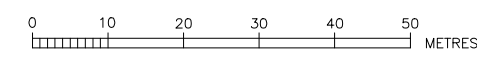
PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :- DIAL BEFORE YOU DIG Ph. 1100 ELECTRICITY, ENDEAVOUR ENERGY Ph. 131 003 GAS JEMENA GAS Ph. 1300 880 906 TELECOMMUNICATIONS, TELSTRA Ph. 1800 114 918 SYDNEY WATER Ph. 132 092 GIVING AT LEAST 48 HOURS NOTICE.	UTILITIES						WORK AS CONSTRUCTED CERTIFICATION						PIPE SCHEDULE				MGA 2020 AUSTRALIAN HEIGHT DATUM		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.	SYDNEY WATER CORPORATION				
	TYPE		DATE	REF.	TYPE		DATE	REF.	DEVELOPER	MIRVAC HOMES PTY LTD					SIZE ON	TYPE	CLASS	LENGTH		PIPE JOINING METHOD / NOTES		SCALES		
	PROP STORMWATER: SMD		18.03.25	ENG.						WATER SERVICE CO-ORDINATOR ORION CONSULTING ENGINEERS PTY LTD					150	U.P.V.C.	SN8	522.44		RRJ		PLAN 1:500 SECTION { HOR. 1:500 VERT. 1:125		
	PROP WATER: PW		20.08.25	DESIGN						CONSTRUCTOR GLENMORE PARK PLUMBING & DRAINAGE														
										COMPLETED 19.06.2026 W.A.C. PREPARED 25.06.2026														
									DESIGNER R. Awad											NO BOUNDARY TRAPS REQUIRED.		CROSS SECTIONS NATURAL		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.													DESIGN HEAD . . . m								LENGTHS, DEPTHS & LEVELS ARE IN METRES.		SHEET . . 1 OF . . 3 File No. 24-0549 (LIGHT GREEN ST3)	



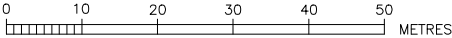
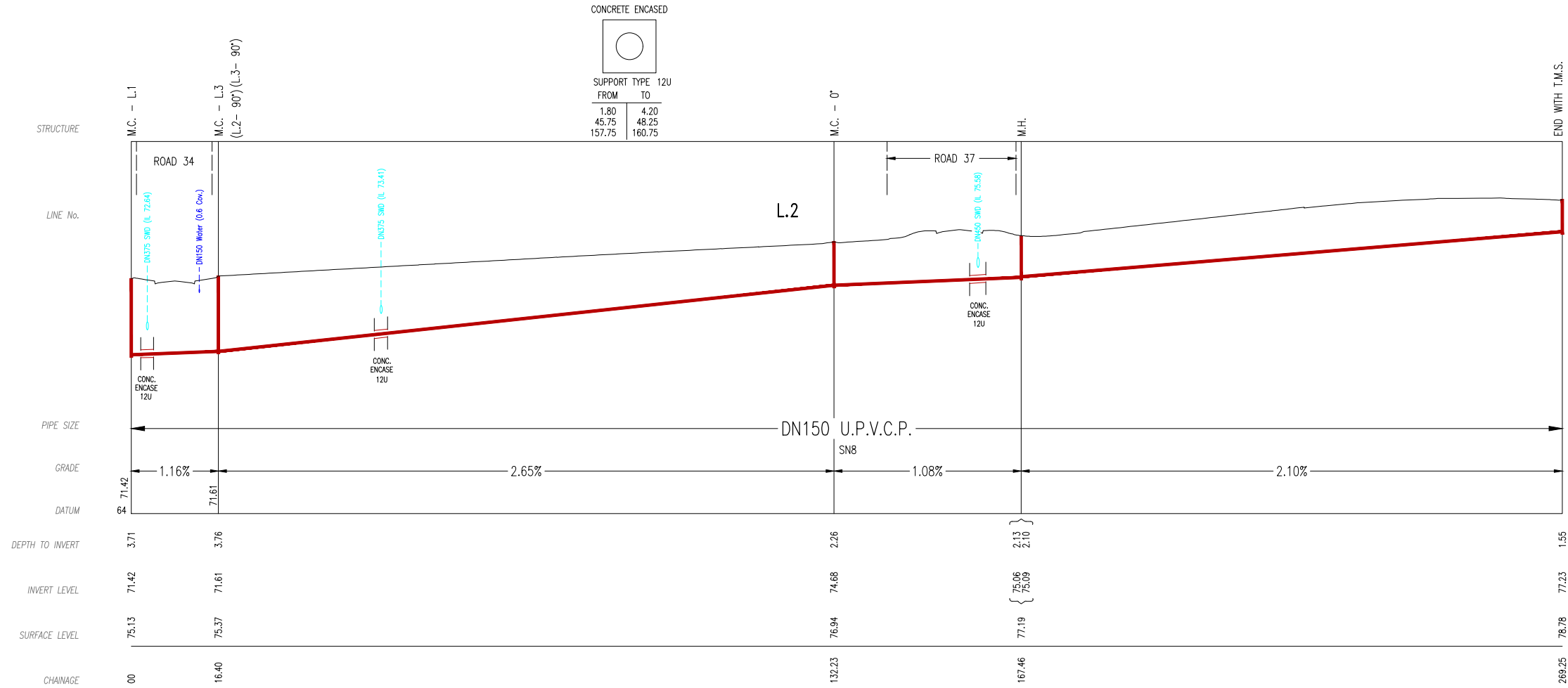
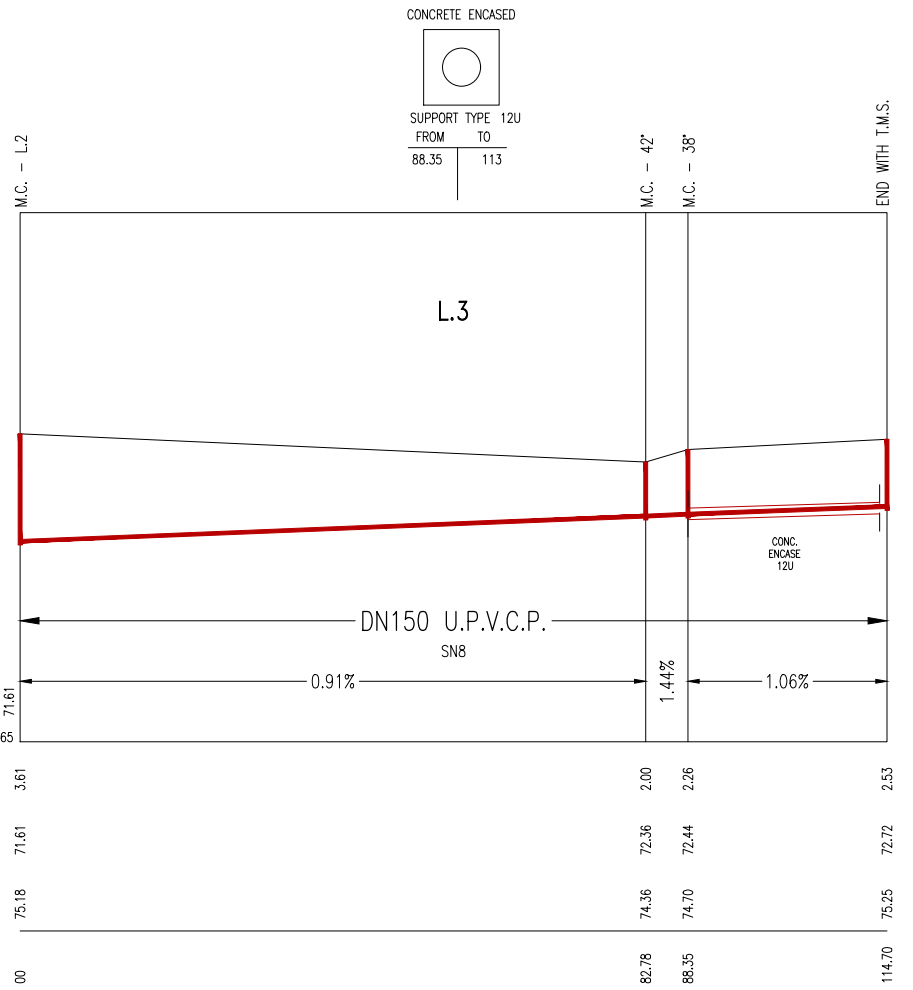
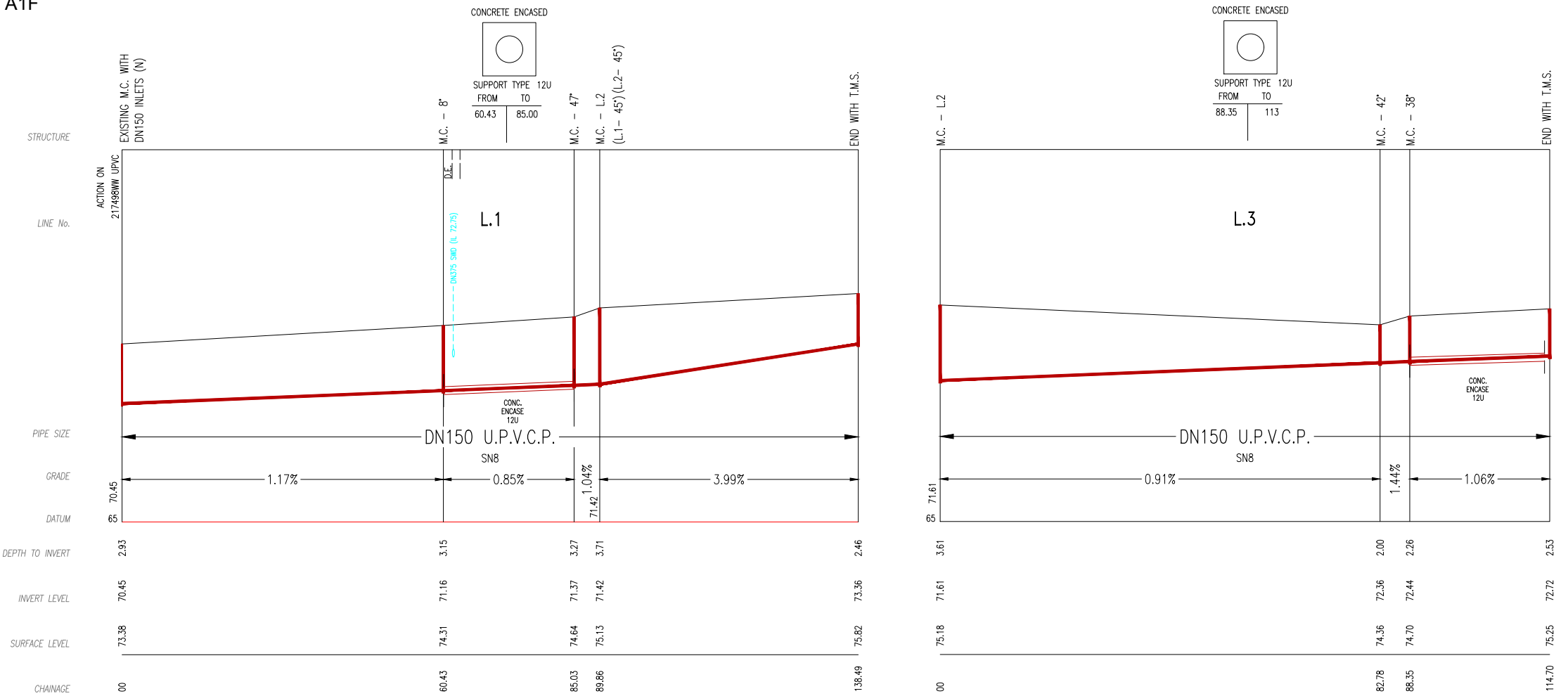
EXISTING M.C. WITH
DN150 INLETS (N)

STAGE 2 - SUBDIVISION
SERVICED UNDER CASE217498WW

STAGE 2 - SUBDIVISION SERVICED
UNDER CASE217498WW



WORK AS CONSTRUCTED CERTIFICATION		 SYDNEY WATER CORPORATION			
DEVELOPER	MIRVAC HOMES PTY LTD	Case No. 217502WW		SHT 2 OF 3 SHTS.	
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD				
CONSTRUCTOR	GLENMORE PARK PLUMBING PTY LTD	19.6.2026		SYDNEY WATER CORPORATION	
COMPLETED	19.6.2026				
W.A.C. PREPARED	25.6.2026	FOR DETAILS OF SERVICES SEE SHEET 1			
DESIGNER	R. Awad				
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS					



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DEVELOPER	MIRVAC HOMES PTY LTD		
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CONSTRUCTOR	GLENMORE PARK PLUMBING PTY LTD	Case No. 217502WW SHT 3 OF 3 SHTS.	
COMPLETED	19.6.2026		
W.A.C. PREPARED	25.6.2026	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
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