



1. WATER SERVISING CO-ORDINATOR:
KF WILLIAMS ENVIRONMENTAL SERVICES PTY LTD
LEVEL 1, 497 PRICES HIGHWAY FAIRY MEADOW NSW 2519
PH. (02) 4228 7044

FOR: MIRVAC HOMES (NSW) PTY LTD
LEVEL 28 200 GEORGE STREET SYDNEY NSW 2000
PH. 0416 623 295
2. THE WORKS AND MATERIALS COMPLETED IN ACCORDANCE WITH THE SEWER RETICULATION CODE OF AUSTRALIA (WSA 02-2002-2.2 VERSION 4) INCLUDING THE SYDNEY WATER SUPPLEMENT AND APPENDICES. CONTRACTOR HAD A COPY OF THIS DOCUMENT ON SITE AT ALL TIMES
3. ALL FINISHED SURFACE LEVELS, STORMWATER INFORMATION AND GENERAL CIVIL ENGINEERING DETAILS TAKEN FROM 21-0258-09-CC-000-801-[REV A]
4. PIPES CONCRETE ENCASED SHOWN ACCORDINGLY: SUPPORT AS PER SEW-1205-V TYPE 12U
5. ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
6. EXISTING AND PROPOSED SERVICES ARE INDICATIVE ONLY. CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING & PROPOSED SERVICES WERE NECESSARY PRIOR TO THE COMMENCEMENT OF WORK & APPROPRIATE PROCEDURES, PRECAUTIONS AND CARE TAKEN BY THE CONSTRUCTOR WHEN WORKING IN CLOSE PROXIMITY TO SERVICES DURING CONSTRUCTION AND ANY DAMAGE TO EXISTING SERVICES WERE RECTIFIED AT THE CONSTRUCTORS EXPENSE.
7. THE NUMBER OF FIELD COMPACTION TESTS COMPLETED TO SATISFY THE SEWERAGE CODE OF AUSTRALIA (CLAUSE 22.3.4.4) WERE:

TRENCH FILL ZONE - NON-TRAFFICABLE: 1 PER 900mm LAYER PER 100m OF SEWER
MAIN - TOTAL No. OF TESTS: 78
M.H. & M.S. ZONE: 1 PER 1m DEPTH AT ONE LOCATION WITHIN 300mm OF EACH M.S.
& M.H. - TOTAL No. OF TESTS: 94

8. LOCATION OF SEWER LINES MARKED BY A REGISTERED LAND SURVEYOR PRIOR TO CONSTRUCTION
9. CONTRACTOR NOTIFIED WSC WHEN WATER CHARGED GROUND/UNSTABLE GROUND/GROUND CONDITIONS NOT SUITABLE FOR CONSTRUCTION AND STOPPED WORK UNTIL THEY HAVE BEEN INSTRUCTED BY WSC.
10. CONTRACTOR ENSURED TRENCH STABILITY. STABILITY OF PROBABLE ADJACENT SERVICES/POSSIBLE STRUCTURES WERE THE RESPONSIBILITY OF THE CONTRACTOR.
11. INVERT LEVEL OF EXISTING SEWER AT CH00 WAS CONFIRMED BY SURVEY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
12. SUBSURFACE CONDITIONS, INCLUDING GROUNDWATER, CONTAMINATION, UNRECORDED BURIED MATERIAL OR OBJECTS AND ARCHAEOLOGICAL SIGNIFICANT ITEMS ENCOUNTERED DURING CONSTRUCTION, REQUIRING FURTHER ENVIRONMENTAL, GEOTECHNICAL OR ARCHAEOLOGICAL ASSESSMENT AND APPLICATION OF APPROPRIATE CONSTRUCTION METHODS AND STANDARDS.
13. CONTRACTOR CONFIRMED FINISHED SURFACE LEVEL WITH CIVIL WORKS MAIN CONTRACTOR AT TIME OF CONSTRUCTION.
14. M.H. CONSTRUCTED IN ACCORDANCE WITH DTC-2000, DTC-2203, DTC-2220, DTC-2221 & DTC-2222
15. JUNCTION FOR PCS'S LOCATED MIN 0.7m OFF THE DOWNSTREAM PROPERTY BOUNDARY, DOWNSTREAM EASEMENT BOUNDARY OF 1.0m OFF THE EDGE OF THE MAINTENANCE STRUCTURE. ALL PCS LOCATIONS VERIFIED BY PROJECT MANAGER PRIOR TO INSTALLATION. ALL JUNCTIONS AND INSPECTION POINTS LOCATED CLEAR OF FUTURE DRIVEWAYS

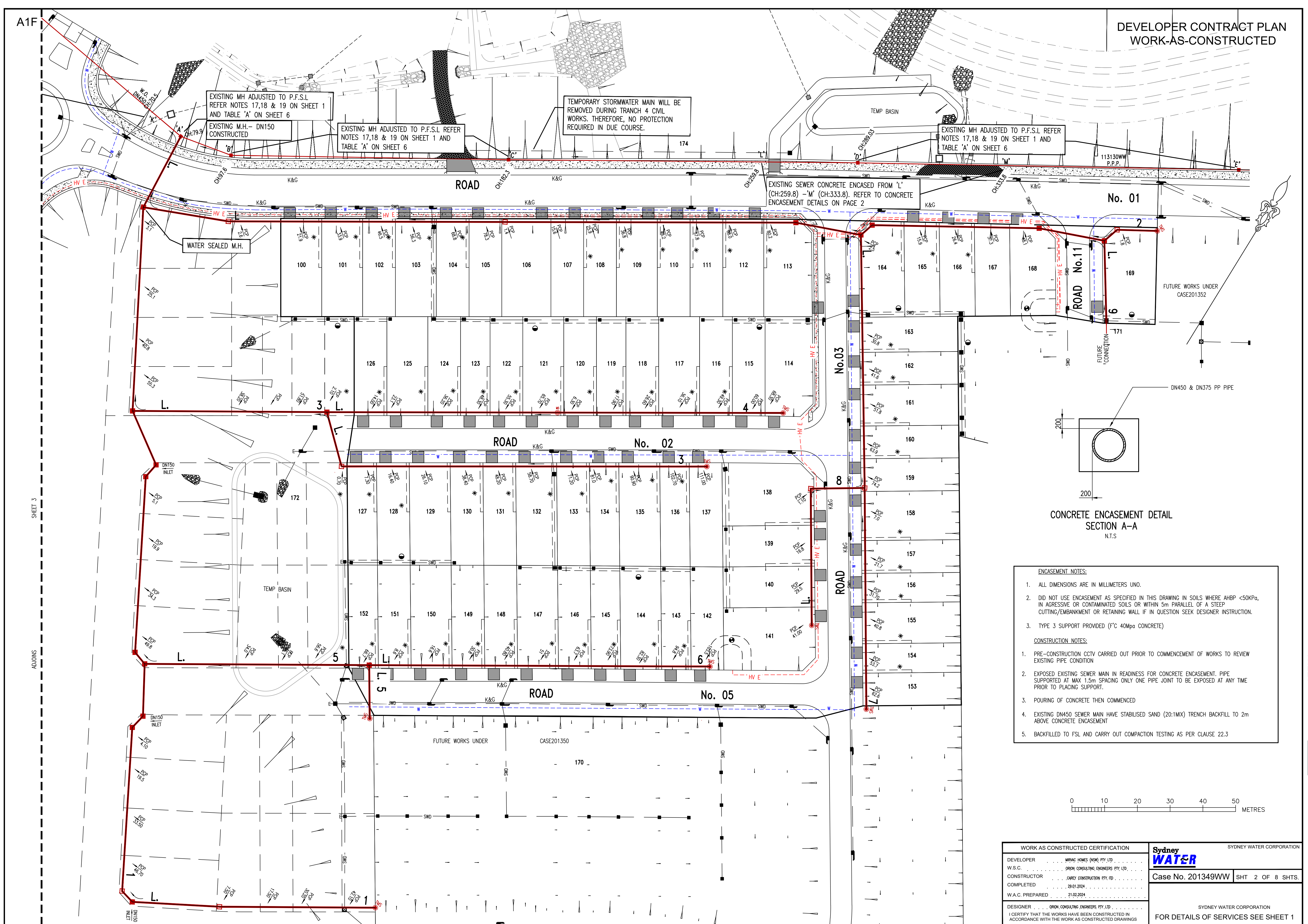
↘ DENOTES PROPERTY CONNECTION SEWER (REFER DTC-2120)

16. AREAS BOUND THUS NOT DRAINED
17. THE CONSTRUCTOR LIASED WITH CIVIL CONTRACTOR TO VERIFY THE PROPOSED FINISHED SURFACE LEVEL. IF THE PROPOSED FINISHED SURFACE LEVEL DIFFER FROM TABLE 'A', THE CONSTRUCTOR CONTACTED WSC .
18. DTC – 2223 USED FOR SLAB DETAIL.
19. THE FOLLOWING WORK METHODOLOGY (MH ADJUSTMENT) WAS FOLLOWED:
 - CONSTRUCTOR CONFIRMED PPSL WITH SITE SUPERINTENDENT
 - REMOVED ACCESS COVER AND FRAME
 - REMOVED CONVERTER SLAB
 - CUT MH WALLS AS PER TABLE 'A'
 - DRILLED HOLES SUITABLE FOR N16 DOWELS AT 150 CENTRES INTO THE WALL IN LINE WITH EXISTING REO
 - DOWELED SET IN EXISTING WALL USING HILTI HIT-RE 500E
 - REINFORCEMENT WAS AS PER SLAB TO BE TIED TO N16 DOWELS
 - PREPARED CONSTRUCTION JOINT AS PER DTC-2222
 - POURED CONCRETE TO NEW HEIGHT . LINER JOINED WITH THE SAME METHODOLOGY AS NORMALLY DONE FOR A NEW CONCRETE LIFT. NEWLY LINED SECTIONS TESTED TO WSA-201. CONCRETE STRENGTH FOR ALL LIFTS TO BE 40MPa.
 - ROOFSLAB WAS AS PER RELEVANT DTC DRAWING
20. FOR CONSTRUCTION METHODOLOGY, REFER TO ITEM 8 ON PAGE 16 OF SEA REPORT.
21. STRUCTURAL CALCULATIONS OF IMPACTS ON SYDNEY WATER ASSETS, PLEASE REFER TO ITEM 6 ON PAGE 6 OF SEA REPORT

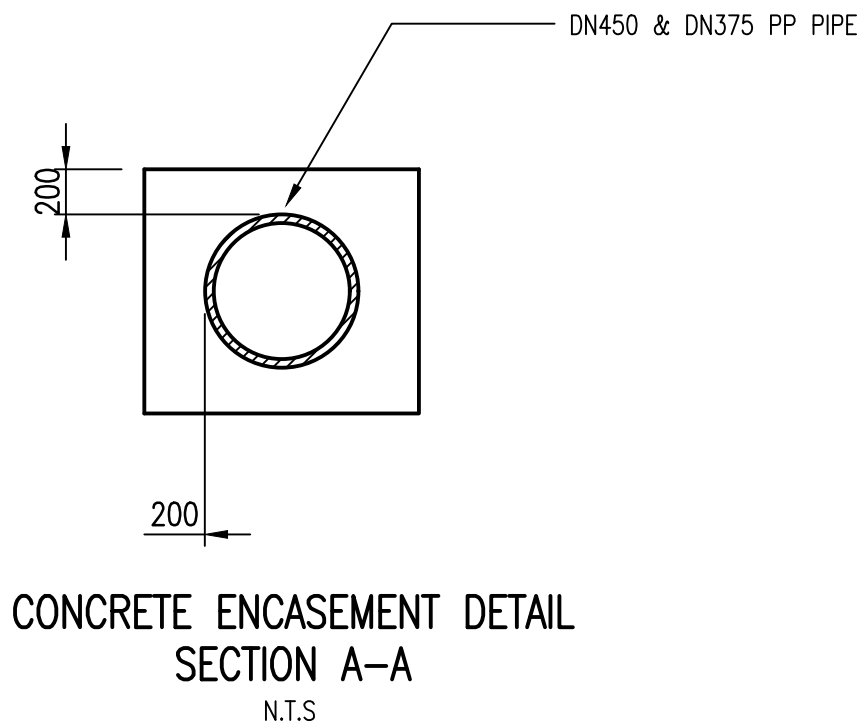
MAINTENANCE STRUCTURE SCHEDULE								
LINE	CHAINAGE	EASTING (MGA 2020)	NORTHING (MGA 2020)	TYPE	DN RISER	CLASS OF COVER	MATERIAL	COMMENTS
1	0.00	288493.7652	6234139.7017	—	—	—	—	
	24.49	288495.3393	6234115.2660	M.H.	DN1500	B	CONCRETE	WATER SEALED M.H.
1	86.80	288525.1199	6234060.5367	M.H.	DN1050	B	CONCRETE	DTC-2203
1	104.78	288539.8689	6234050.2532	M.H.	DN1050	B	CONCRETE	DTC-2203
1	109.56	288539.0687	6234045.5416	M.H.	DN1050	B	CONCRETE	DTC-2203
1	163.33	288564.3848	6233998.1038	M.H.	DN1050	B	CONCRETE	DTC-2203
1	167.92	288568.7295	6233996.6354	M.H.	DN1050	B	CONCRETE	DTC-2203
1	183.91	288576.6515	6233982.7445	M.H.	DN1050	B	CONCRETE	DTC-2203
1	188.65	288575.6645	6233978.1079	M.H.	DN1050	B	CONCRETE	DTC-2203
1	238.74	288599.2029	6233933.8929	M.C.	600	B	PP	AWASHAFT PP 600 (AG 45° CONFIGURATION)
1	243.27	288603.5745	6233932.700	M.H.	DN1050	B	CONCRETE	DTC-2203
1	269.93	288627.0305	6233945.3746	M.C.	600	B	PP	AWASHAFT PP 600 (180° CONFIGURATION)
1	317.53	288667.7353	6233970.0483	T.M.S.	225	B	PVC-U	
2	26.40	288519.7420	6234125.1907	M.C.	600	B	PP	AWASHAFT PP 600 (180° CONFIGURATION)
2	110.90	288591.6289	6234169.2788	M.C.	600	B	PP	AWASHAFT PP 600 (180° CONFIGURATION)
2	199.73	288667.6194	6234215.6008	M.H.	DN1050	B	CONCRETE	DTC-2203
2	219.93	288686.5049	6234222.7873	M.H.	DN1050	B	CONCRETE	DTC-2203
2	224.49	288687.8475	6234227.1435	M.H.	DN1050	B	CONCRETE	DTC-2203
2	275.52	288731.8172	6234253.0315	M.H.	DN1050	B	CONCRETE	DTC-2203
2	295.78	288750.7742	6234260.1959	M.H.	DN1050	B	CONCRETE	DTC-2203
2	300.93	288752.3432	6234265.0994	M.C.	600	B	PP	AWASHAFT PP 600 (AG 45° CONFIGURATION)
2	313.17	288762.9534	6234271.2044	T.M.S.	225	B	PVC-U	
3	59.35	288575.8860	6234091.2886	M.H.	DN1050	B	CONCRETE	DTC-2203
3	76.50	288588.3528	6234079.5105	M.C.	600	B	PP	AWASHAFT PP 600 (AG 60° CONFIGURATION)
3	188.05	288683.4269	6234137.8635	T.M.S.	225	B	PVC-U	
4	70.42	288635.9679	6234128.0241	M.S.	300	B	PVC-U	
4	139.33	288694.7374	6234164.0178	T.M.S.	225	B	PVC-U	
5	68.58	288627.3605	6234032.2056	M.H.	DN1050	B	CONCRETE	DTC-2203
5	84.87	288636.0054	6234018.3968	T.M.S.	225	B	PVC-U	
6	104.04	288716.2300	6234086.3020	T.M.S.	225	B	PVC-U	
7	77.29	288727.9326	6234157.5414	M.C.	600	B	PVC-U	AWASHAFT PP 600 (RML 270° CONFIGURATION)
7	144.86	288763.7286	6234100.2078	T.M.S.	225	B	PVC-U	
8	16.47	288714.0193	6234148.7284	M.C.	600	B	PP	AWASHAFT PP 600 (ML 90° CONFIGURATION)
8	58.23	288736.1389	6234113.3124	T.M.S.	225	B	PVC-U	
9	0.0	288751.1157	6234260.3825	M.H.	DN1050	B	PVC-U	
9	25.20	288764.4922	6234239.0564	—	—	—	—	

4	WORK AS CONSTRUCTED AS PER SWC COMMENTS	R.A.	21.02.24
3	WORK AS CONSTRUCTED	R.A.	09.02.24
2	WATERSEAL MH DIAMETER UPDATED	P.P.	03.05.23
1	ISSUE FOR APPROVAL	P.P.	08.09.22
No.	AMENDMENT DESCRIPTION	BY	DATE

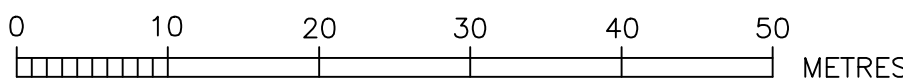
WITH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION		TYPE PROP. WATER: DN100 Water		DATE 08.09.22	REF. 201349PW	TYPE PROP. STORMWATER: SMD		DATE 08.09.22	REF. CIVIL	PROP. ENERGY AUST: E		DATE 08.09.22	REF. CIVIL	PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :- DIAL BEFORE YOU DIG Ph. 1100 ELECTRICITY ENDEAVOUR ENERGY Ph. 029854161 GAS JENEA GAS SOUTH Ph. 1300609966 TELECOMMUNICATIONS NBN CO. Ph. 1800606329 TELSTRA NSW CENTRAL Ph. 1800653935 GIVING AT LEAST 48 HOURS NOTICE.		DEVELOPER MIRVAC HOMES. (NSW) PTY LTD WATER SERVICE CO-ORDINATOR ORION CONSULTING ENGINEERS PTY LTD CONSTRUCTOR CAREY CONSTRUCTION PTY LTD COMPLETED 29.01.2024 W.A.C. PREPARED 21.02.2024 DESIGNER ORION CONSULTING ENGINEERS PTY LTD I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.		PIPE SCHEDULE SIZE 225 TYPE U.P.V.C. CLASS SN8 LENGTH 399.97 PIPE JOINING METHOD / NOTES R/RJ		GDA2020 AUSTRALIAN HEIGHT DATUM SCALES PLAN 1:500 SECTION { HOR. 1:500 VERT. 1:125 PS CROSS SECTIONS UBD 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.		Sydney WATER SYDNEY WATER CORPORATION Case No. 201349WWW WEST CAMDEN SEWERAGE DRAINS TO WEST CAMDEN STP VIA SP1161 AND SP0673	
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DEVELOPER CONTRACT PLAN
WORK-AS-CONSTRUCTED



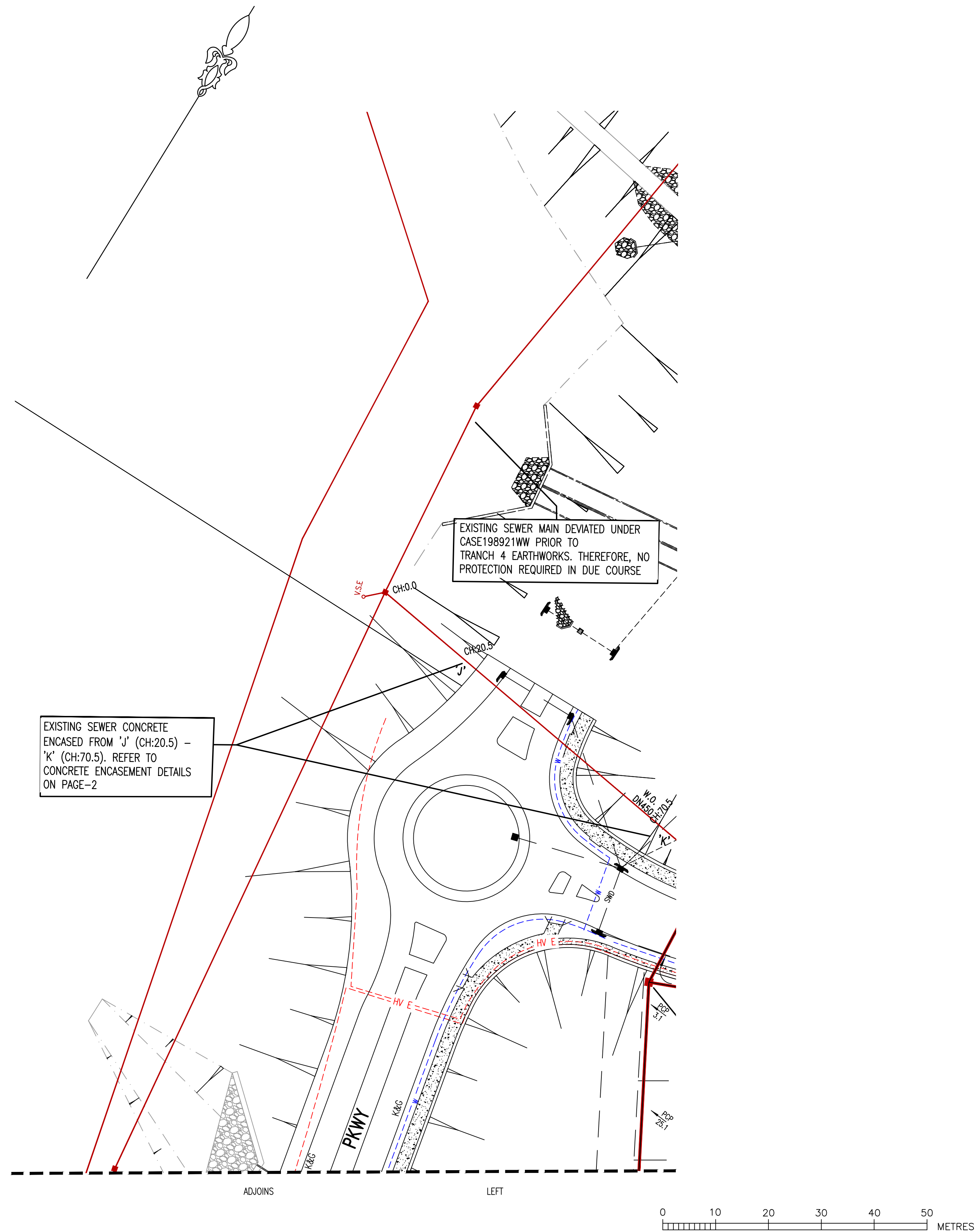
- ENCASEMENT NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETERS UNO.
 - DID NOT USE ENCASEMENT AS SPECIFIED IN THIS DRAWING IN SOILS WHERE AHBP <50KPa, IN AGGRESSIVE OR CONTAMINATED SOILS OR WITHIN 5m PARALLEL OF A STEEP CUTTING/EMBANKMENT OR RETAINING WALL IF IN QUESTION SEEK DESIGNER INSTRUCTION.
 - TYPE 3 SUPPORT PROVIDED (F'C 40Mpa CONCRETE)
- CONSTRUCTION NOTES:**
- PRE-CONSTRUCTION CCTV CARRIED OUT PRIOR TO COMMENCEMENT OF WORKS TO REVIEW EXISTING PIPE CONDITION
 - EXPOSED EXISTING SEWER MAIN IN READINESS FOR CONCRETE ENCASEMENT. PIPE SUPPORTED AT MAX 1.5m SPACING ONLY ONE PIPE JOINT TO BE EXPOSED AT ANY TIME PRIOR TO PLACING SUPPORT.
 - POURING OF CONCRETE THEN COMMENCED
 - EXISTING DN450 SEWER MAIN HAVE STABILISED SAND (20:1MIX) TRENCH BACKFILL TO 2m ABOVE CONCRETE ENCASEMENT
 - BACKFILLED TO FSL AND CARRY OUT COMPACTION TESTING AS PER CLAUSE 22.3



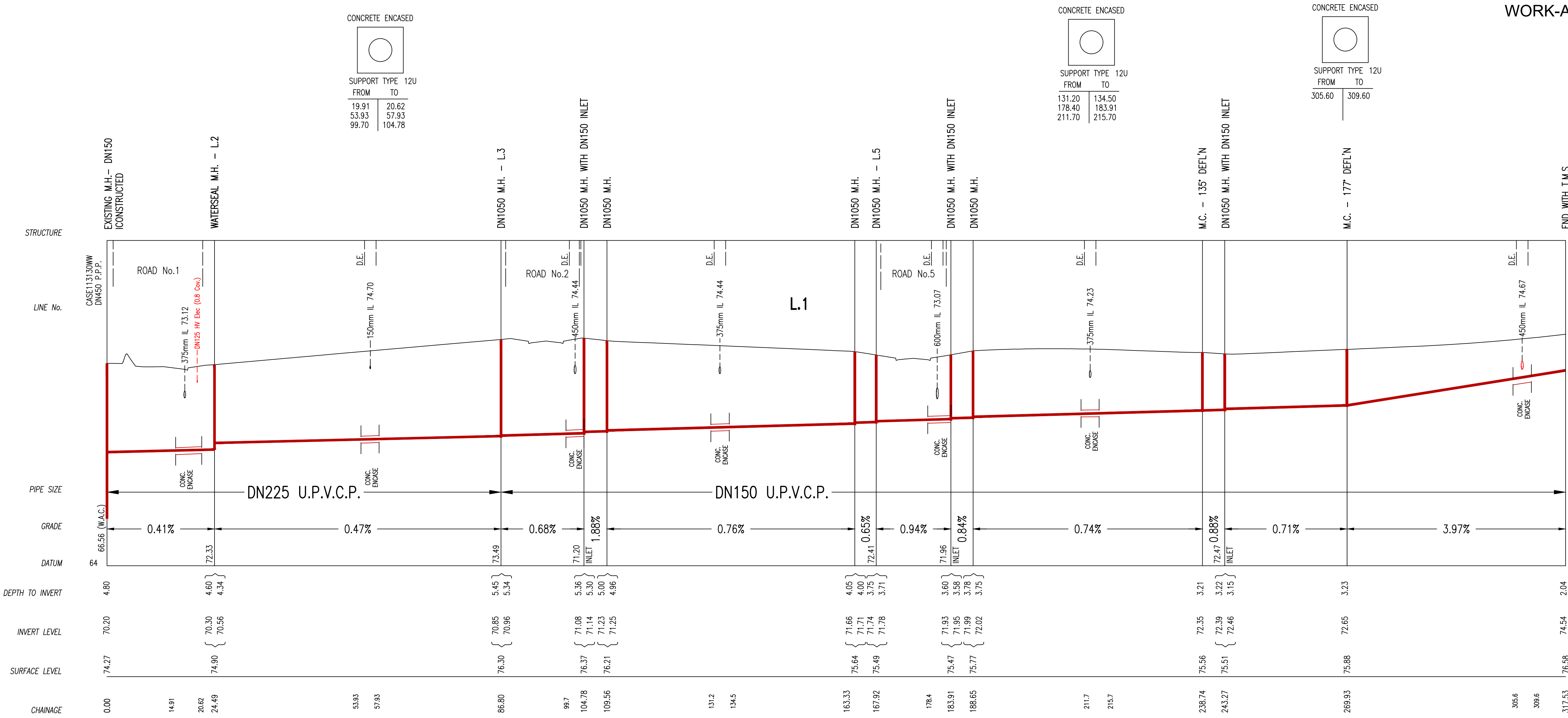
WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER		SYDNEY WATER CORPORATION	
DEVELOPER	MIRAC HOMES (NSW) PTY LTD		Case No. 201349WW	SHT	2 OF 8 SHTS.
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD.				
CONSTRUCTOR	CAREY CONSTRUCTION PTY. LTD				
COMPLETED	29.01.2024				
W.A.C. PREPARED	21.02.2024				
DESIGNER	ORION CONSULTING ENGINEERS 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			

A1F
SHEET 3
ADJACENTS

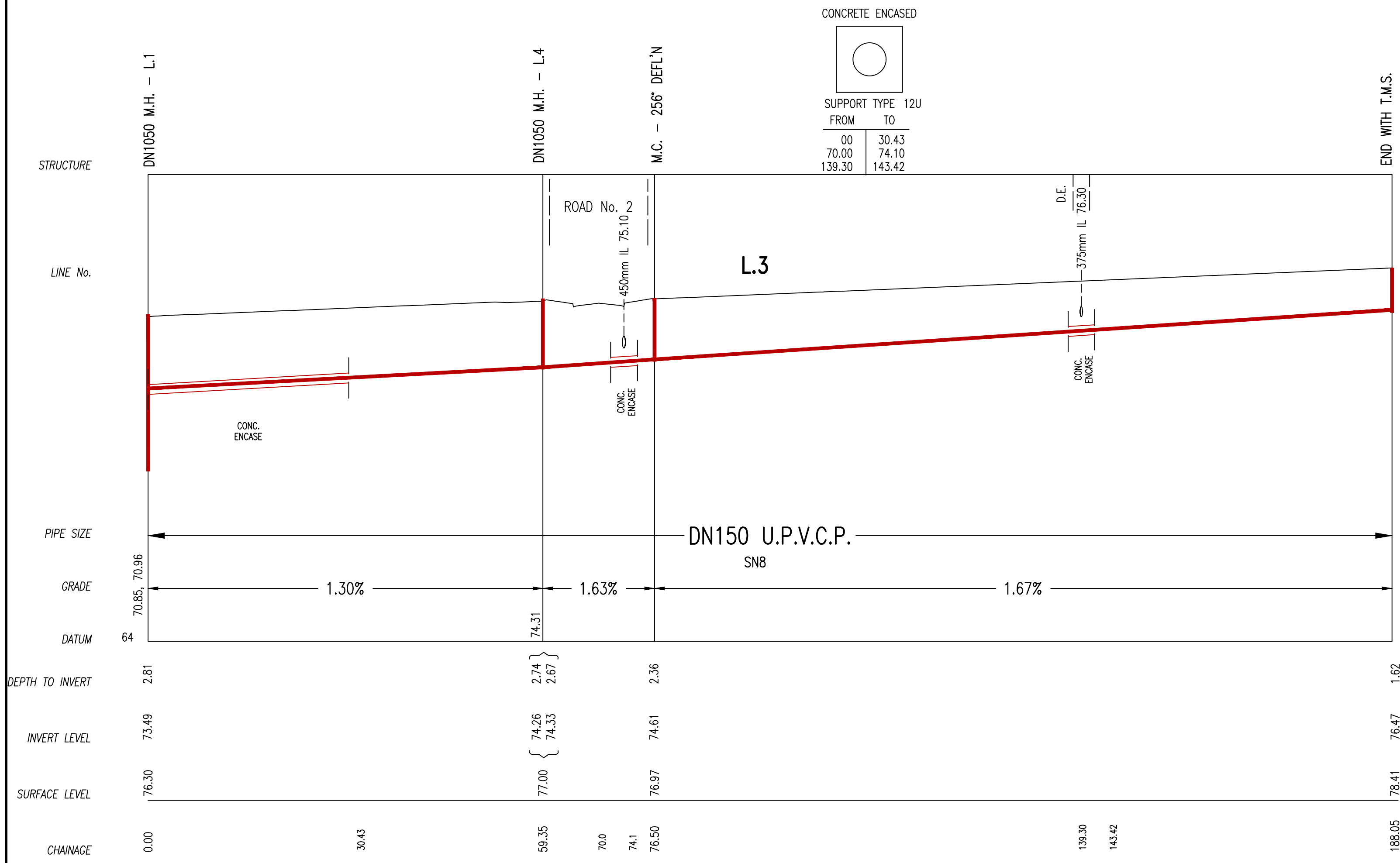
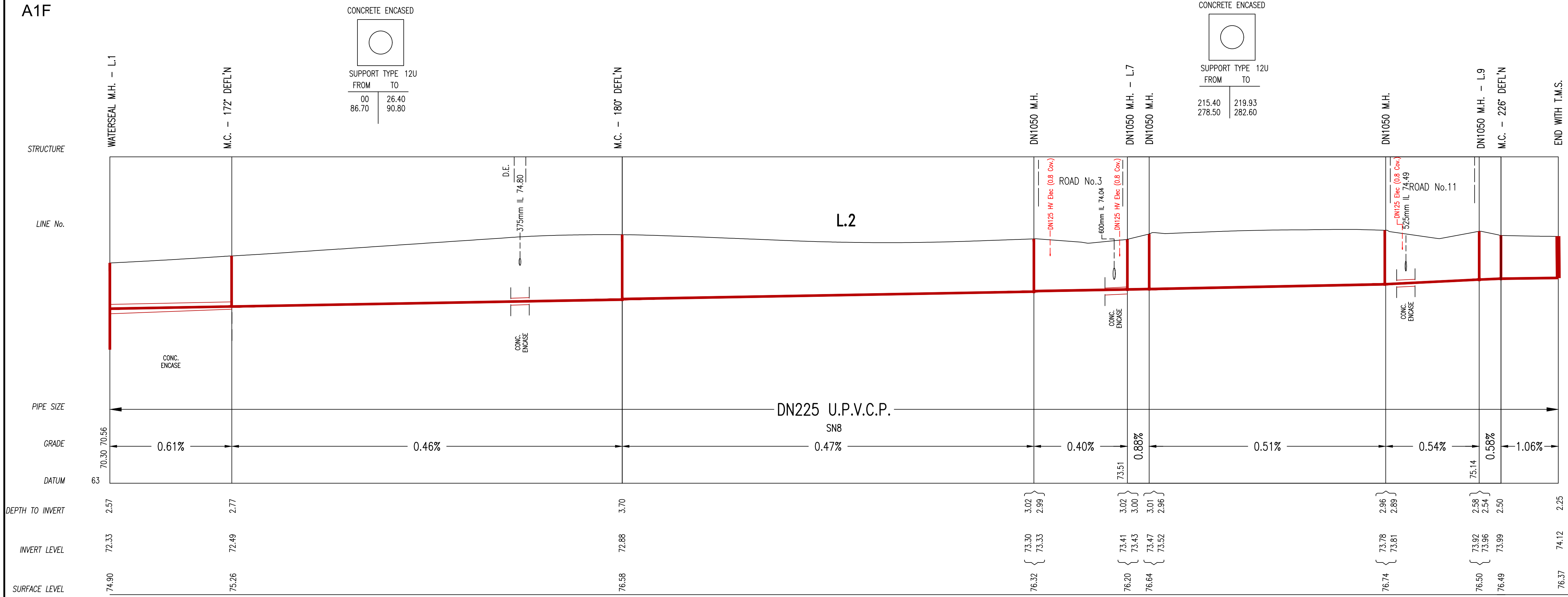
PLAN DRAWN DATE: 21.02.24
VERSION: 04
SHEET 2 OF 8 SHEETS



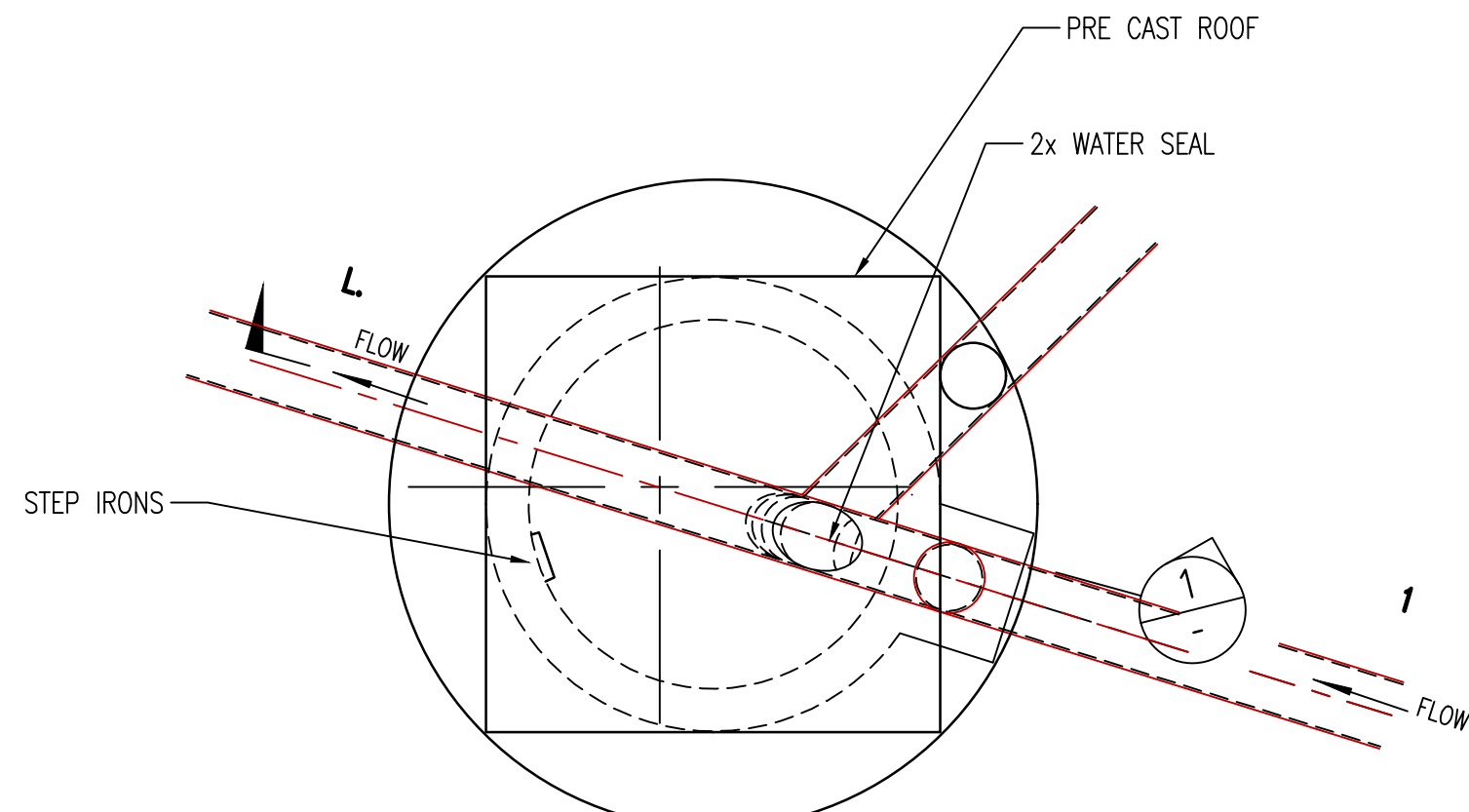
WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER SYDNEY WATER CORPORATION	
DEVELOPER	MIRVAC HOMES (NSW) PTY LTD	Case No. 201349WWW SHT 3 OF 8 SHTS.	
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD.		
CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD.		
COMPLETED	29.01.2024		
W.A.C. PREPARED	21.02.2024	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
DESIGNER ORION CONSULTING ENGINEERS PTY LTD			
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DETAILS			



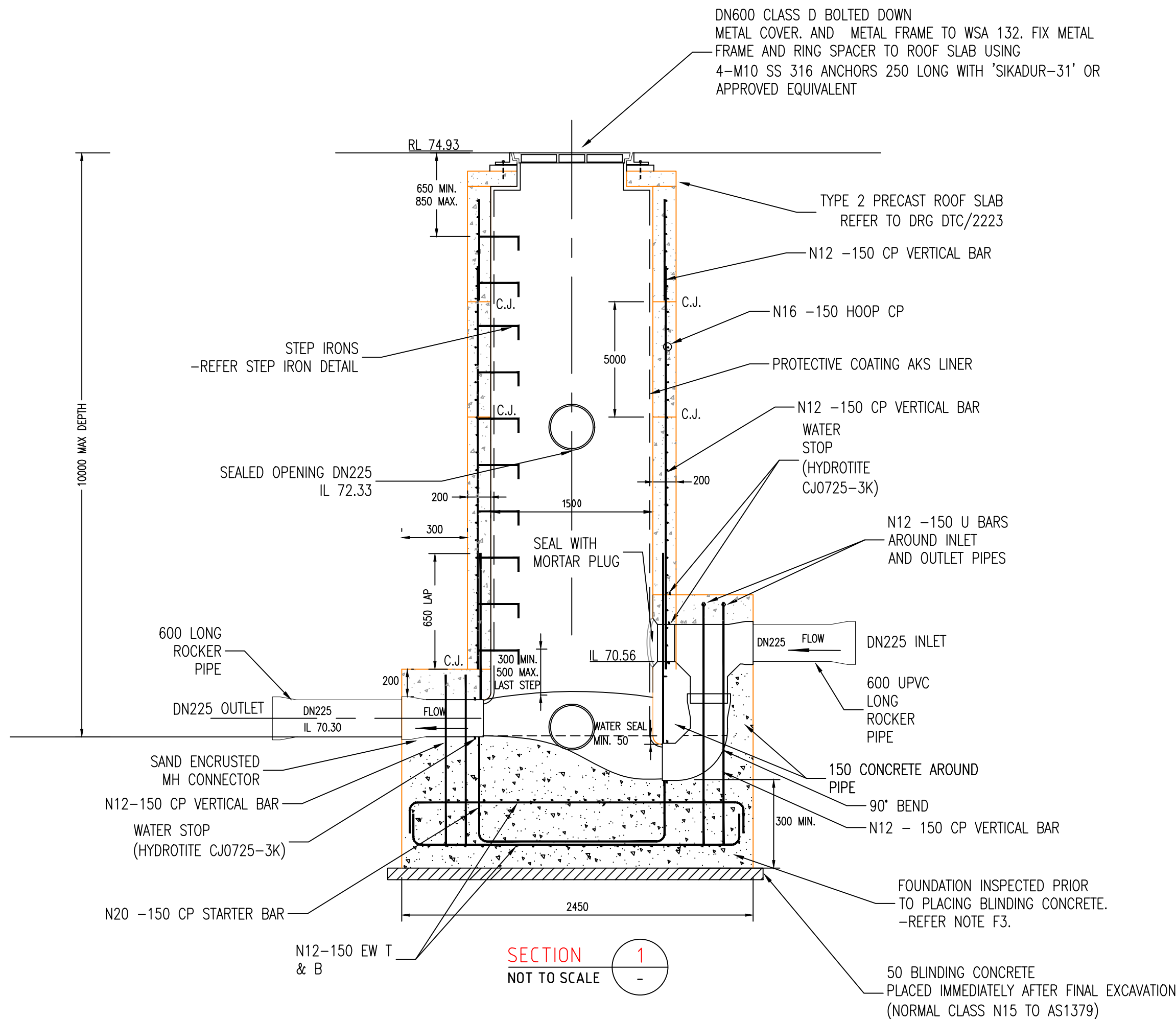
WORK AS CONSTRUCTED CERTIFICATION			SYDNEY WATER CORPORATION		
DEVELOPER	MIRVAC HOMES (NSW) PTY LTD			Case No. 201349WW SHT 4 OF 8 SHTS.	
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD				
CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD		SYDNEY WATER CORPORATION	FOR DETAILS OF SERVICES SEE SHEET 1	
COMPLETED	28/01/2024				
W.A.C. PREPARED	21/02/2024				
DESIGNER	ORION CONSULTING ENGINEERS PTY LTD				
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS					



WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER SYDNEY WATER CORPORATION	
DEVELOPER	MIRVAC HOMES (NSW) PTY LTD	Case No. 201349WW	SHT 5 OF 8 SHTS.
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD		
CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD		
COMPLETED	29.01.2024		
W.A.C. PREPARED	21.02.2024		
DESIGNER	ORION CONSULTING ENGINEERS PTY LTD		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS			
		SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	



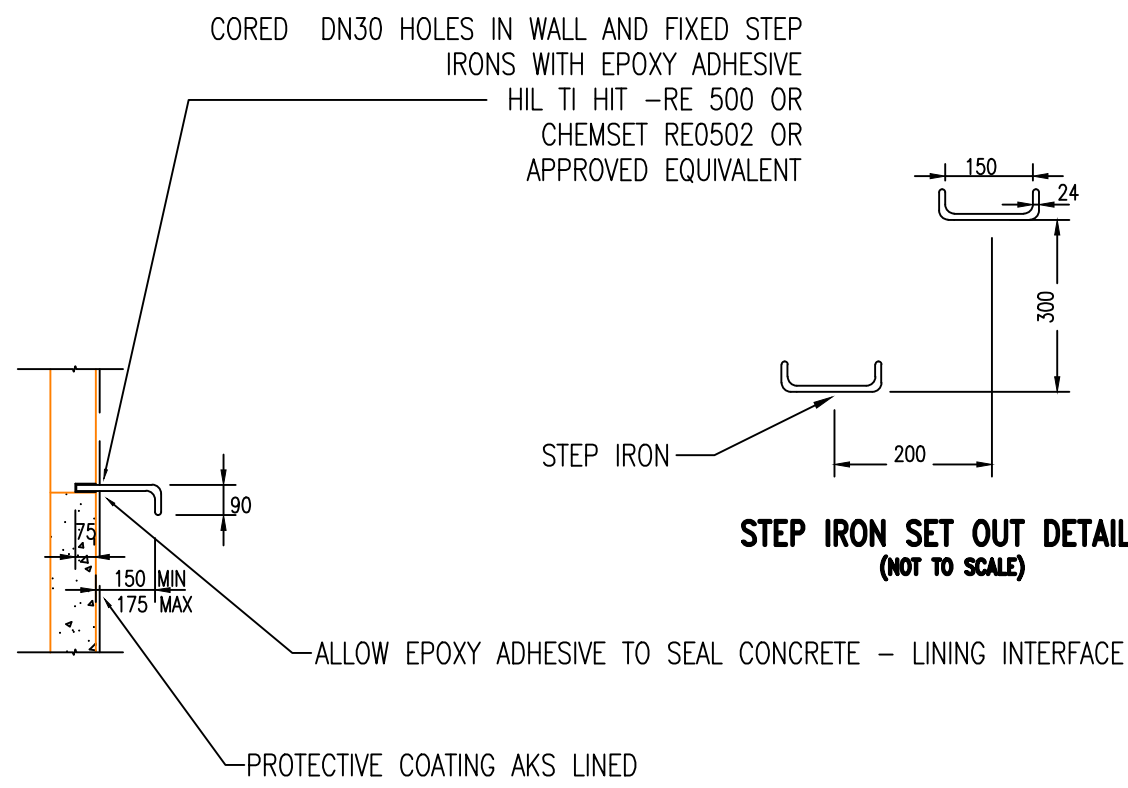
SCHEMATIC WATER SEALED MH PLAN
(NOT TO SCALE)



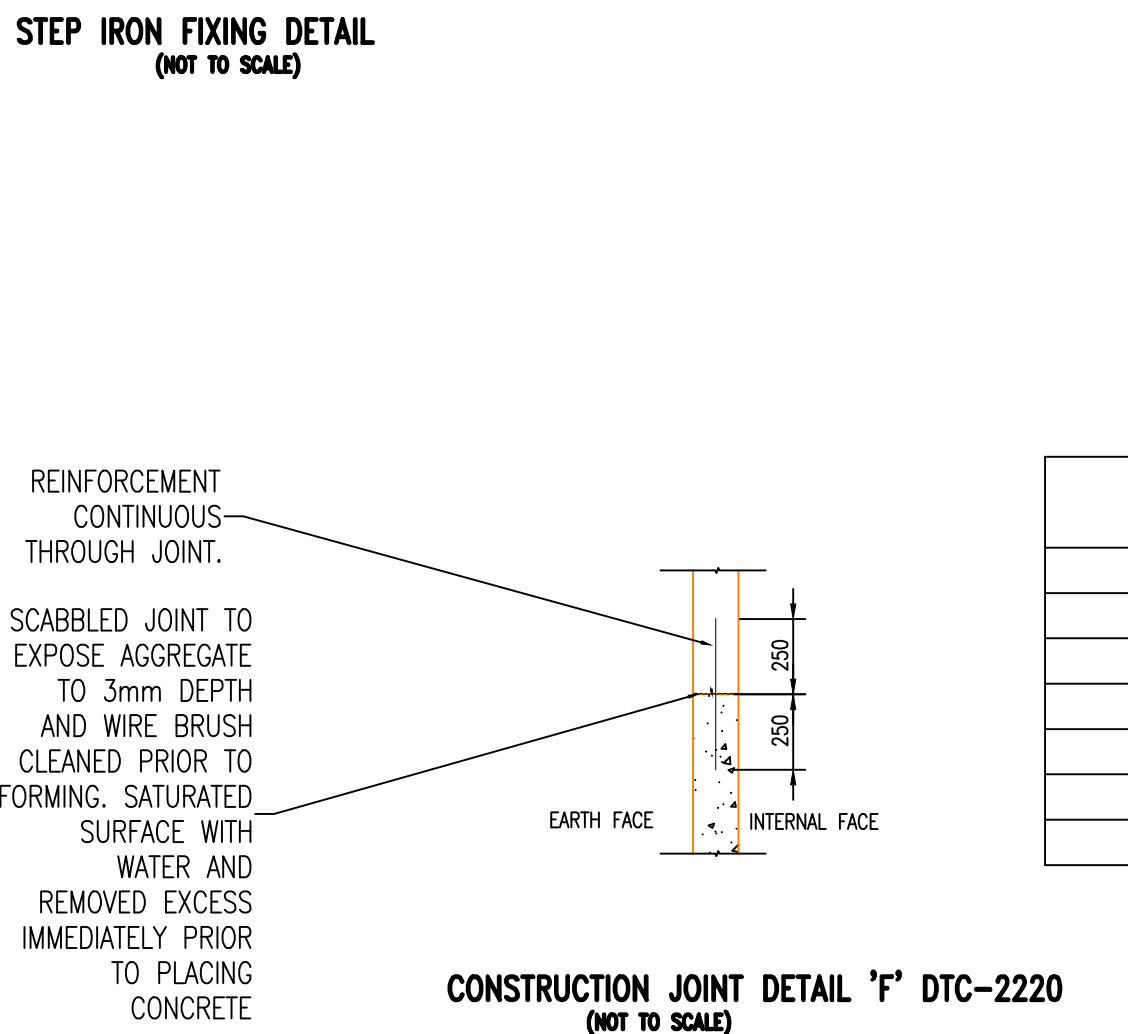
SECTION 1
NOT TO SCALE

STRUCTURAL NOTES:

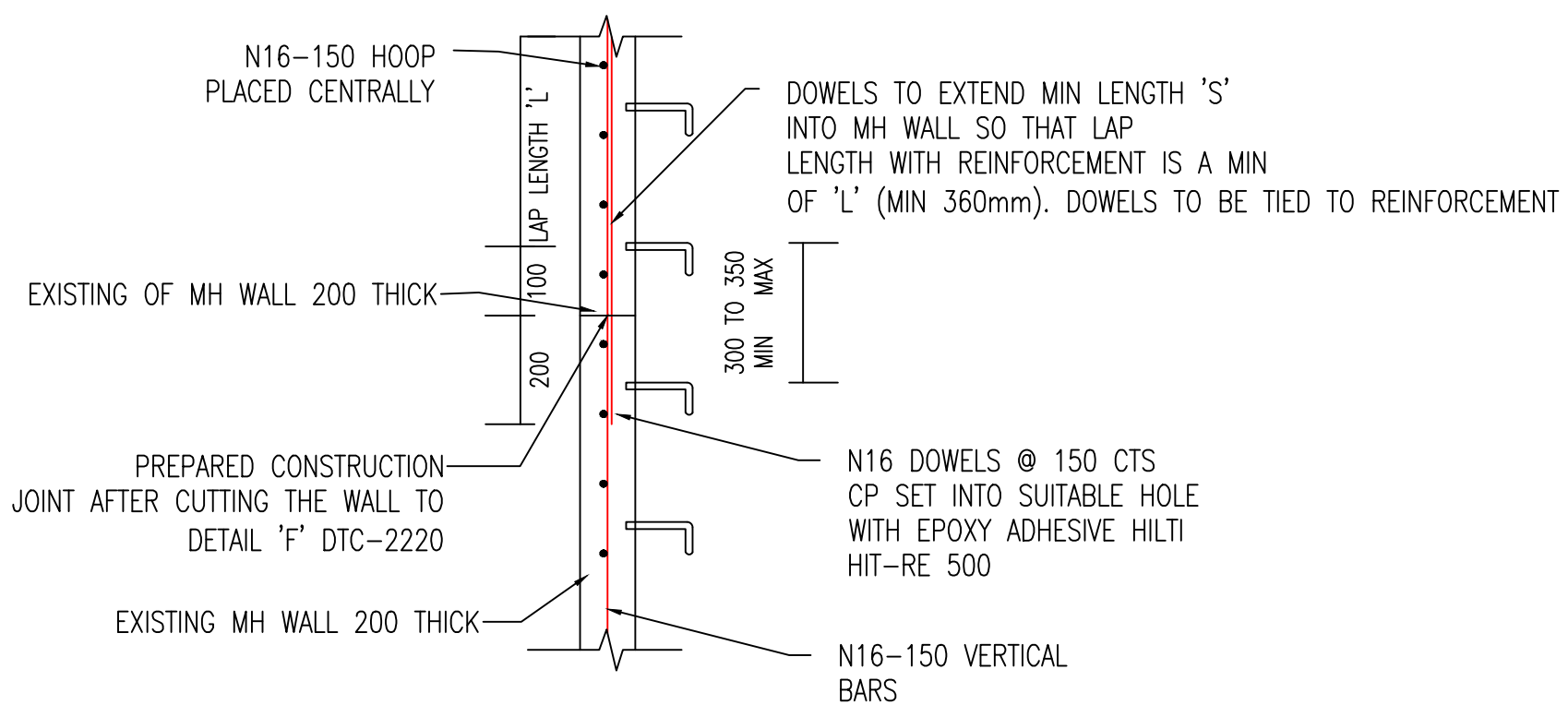
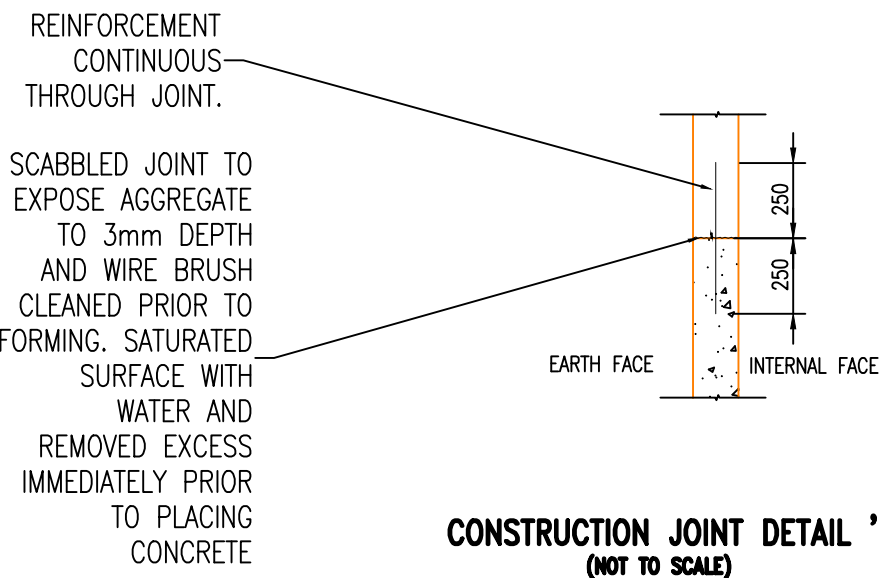
1. DEPTH OF MH DID NOT EXCEED 10.0m MEASURED FROM TOP OF THE LID TO INVERT OF THE MH
2. THIS DESIGN IS SUITABLE FOR TRAFFICABLE AND NON TRAFFICABLE AREAS
3. MINIMUM ALLOWABLE BEARING PRESSURE FOR MH WAS 250kPa (FOR 10m DEEP MH AND 100kPa FOR MH<= 6m DEEP)
4. CONCRETE EXPOSURE CLASSIFICATION D (AS 3735)
5. FORMWORK AND CONCRETE FINISHES COMPLETED IN ACCORDANCE WITH AS 3610 SURFACE EXPOSED TO VIEW - CLASS 2, SURFACE NOT EXPOSED TO VIEW - CLASS 4
6. CONCRETE ACHIEVED A MINIMUM COMPRESSIVE STRENGTH OF 25MPa PRIOR TO STRIPPING OF FORMWORK
7. CONCRETE DIMENSIONS SHOWN DID NOT INCLUDE THICKNESS OF APPLIED FINISHES
8. CONCRETE WAS SPECIAL CLASS SCC40 TO WSA 114-2002 (MINIMUM F'c AT 28 DAYS TO BE 40MPa)
9. CLEAR COVER TO REINFORCEMENT WAS 60mm (AS 3735 TABLE 4.3 RIGID FORMWORK AND INTENSE COMPACTION USED)
10. CURING OF ALL CONCRETE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS, POLYETHYLENE SHEETING OR WET HESSIAN MAY BE USED. POLYETHYLENE AND HESSIAN ADEQUATELY SECURED TO RESIST WIND AND TRAFFIC FORCES, ALTERNATIVE CURING WAS ACHIEVED BY APPLYING SIKA ANTISOL WB CURING COMPOUND OR APPROVED EQUIVALENT TO ALL SURFACES IN ACCORDANCE WITH THE MANUFACTURE REQUIREMENTS FOR A PERIOD OF 14 DAYS
11. CONCRETE ACHIEVED A MINIMUM COMPRESSIVE STRENGTH OF 32MPa PRIOR TO BACKFILLING OF STRUCTURES. BACKFILL PLACED AND COMPACTED EVENLY AROUND MAINTENANCE HOLES IN LAYERS NOT EXCEEDING 300mm LOOSE THICKNESS
12. STEEL REINFORCING MATERIAL WAS TO AS/ZS 4671 SHAPE=D, STRENGTH GRADE = 500MPa, DUCTILITY CLASS = N
13. WELDING OF REINFORCEMENT WAS NOT PERMITTED
14. ALL DIMENSIONS IN mm UNO
15. DIMENSIONS NOT TO BE SCALED OFF THE PLAN
16. MAX LENGTH OF LAP PROPOSED IS 5000
17. ALL INTERNAL SURFACES, INCLUDING THE UNDERSIDE OF THE ROOF SLAB, WALLS, SPACER RING, BUT EXCLUDING BENCHES AND CHANNEL ADEQUATELY PROTECTED CONFIRMING TO 'WSA 201 MANUAL FOR SELECTION AND APPLICATION OF PROTECTIVE COATING' INCLUDING SWC'S SUPPLEMENT, PROTECTION TO CONSIST OF AKS LINER WHICH IS A HDPE LINER. APPLICATION AND SURFACE PREPARATION DONE TO MANUFACTURER'S RECOMMENDATION. CONTACT DETAILS AND QUALIFICATION OF PERSONNEL APPLYING AND WELDING THE LINER SENT TO THE WSC PRIOR TO UNDERTAKING ANY LINING OF THE MH'S AND ESPECIALLY FOR THE WELDING OF THE LINER. CONSTRUCTOR RESPONSIBLE TO PROVIDE QA DOCUMENTATION FOR THE APPLICATION OF THE LINER AS PER WSA-201. THIS QA DOCUMENTATION WILL FORM PART OF THE FINAL PCP DOCUMENTATION TO SWC



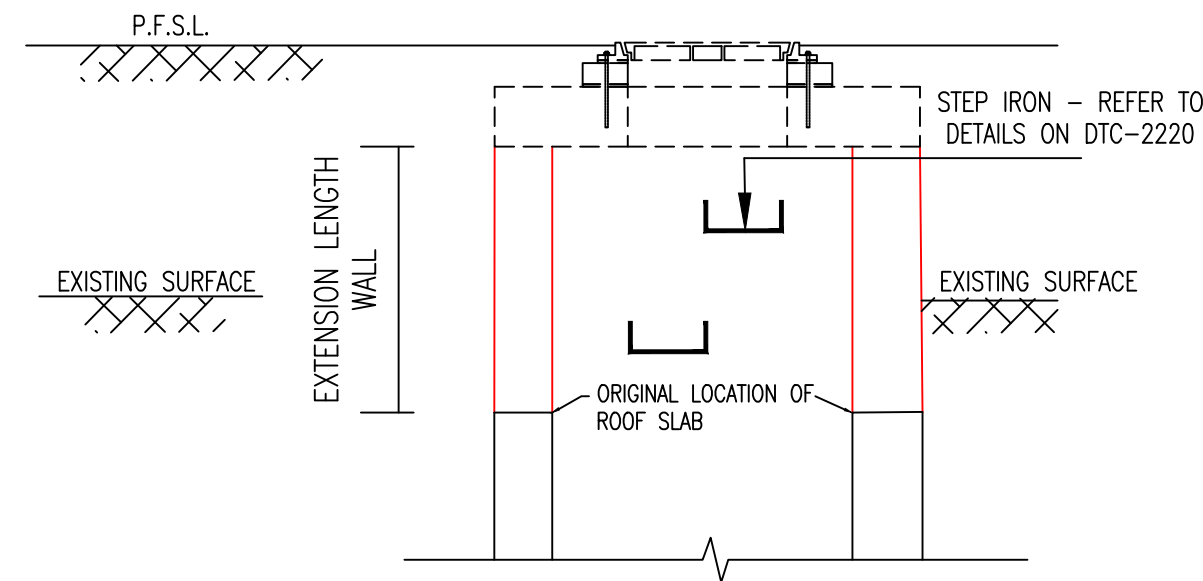
STEP IRON SET OUT DETAIL
(NOT TO SCALE)



CONSTRUCTION JOINT DETAIL 'F' DTC-2220
(NOT TO SCALE)



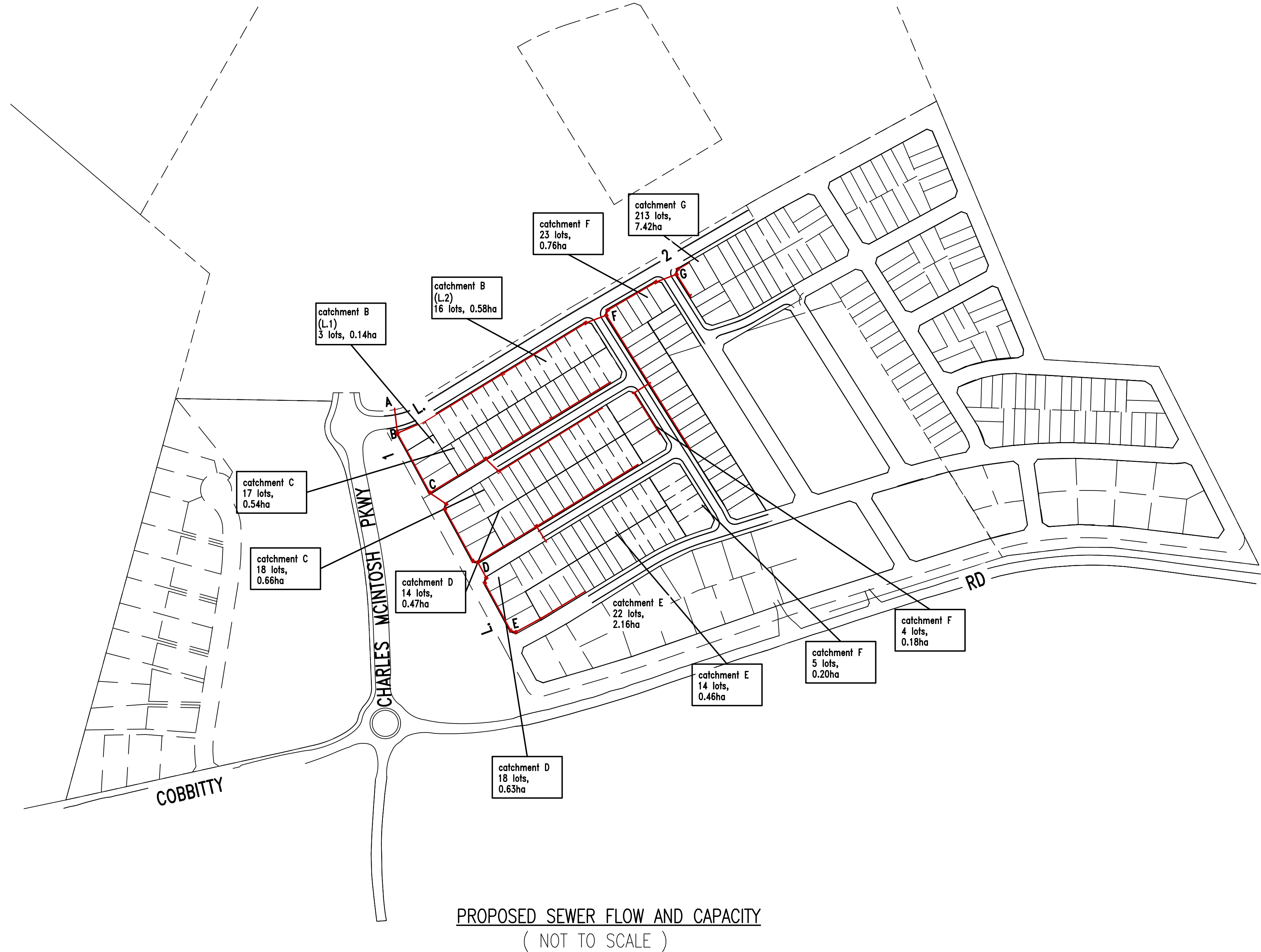
SCHEMATIC FOR OVERALL CUT MH WALL



SCHEMATIC FOR OVERALL EXTENSION MH WALL

TABLE 'A'										
MAINTENANCE STRUCTURE	EASTING	NORTHING	INVERT LEVEL	EXISTING SURFACE LEVEL	PROPOSED FINISHED SURFACE LEVEL	HEIGHT DIFFERENCE	EXTENSION LENGTH WALL	DOWEL EXTENSION	LAP LENGTH WITH REO	WALL THICKNESS
REINFORCED CONCRETE MH 'A'	288493.7652	6234139.7017	66.54 (OUTLET)	71.15	74.32	3.17 (+ve)	3.17	3.37	3.07	0.2
REINFORCED CONCRETE MH 'B'	288509.8390	6234142.7979	66.83 (OUTLET)	71.63	74.75	3.12 (+ve)	3.12	3.32	3.02	0.2
REINFORCED CONCRETE MH 'C'	288414.1770	6234152.0266	67.89 (OUTLET)	74.92	76.16	1.24 (+ve)	1.24	1.44	0.94	0.2
REINFORCED CONCRETE MH 'D'	288674.1529	6234241.0676	69.14 (OUTLET)	76.64	76.26	0.38 (-ve)	0.30	0.40	0.20	0.2
REINFORCED CONCRETE MH 'E'	288774.3863	6234300.1526	69.92 (OUTLET)	76.12	77.20	1.08 (+ve)	1.08	1.28	0.98	0.2
REINFORCED CONCRETE MH 'F'	288530.8392	6233847.9017	69.90 (OUTLET)	74.27	74.41	0.14 (+ve)	0.14	0.34	0.04	0.2
REINFORCED CONCRETE MH 'G'	288457.2981	6233843.9252	69.37 (OUTLET)	74.90	75.16	0.26 (+ve)	0.26	0.46	0.16	0.2

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION		
DEVELOPER	MIRAC HOMES (NSW) PTY LTD		Case No. 201349WW SHT 7 OF 8 SHTS.	
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD.			
CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD	29-01-2024	21-02-2024	
COMPLETED				
W.A.C. PREPARED		ORION CONSULTING ENGINEERS PTY LTD.		
DESIGNER		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		

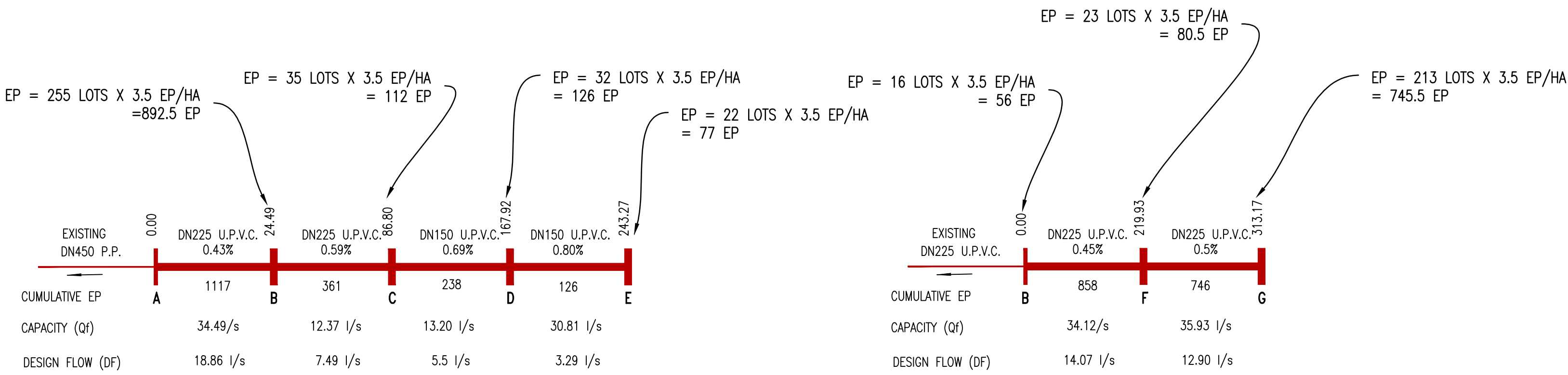


SEWERAGE FLOW SCHEDULE (SUMMARY) : Updated Jan 2016									
Complied by:		P Patel		Date:		29.11.22			
Checked by:		F Jaehne		Date:		29.11.22			
Plan No.		EN30433		Location:		421 Cobbitty Rd Cobbitty		JOB No. (SWC use)	
e-Developer No.		CASE201349		Description:		Sewer extension - L.1		00-Jan-00	
								0	
								0	

SUMMARY													
SECTION	CHAINAGE	TOTAL AREA	TOTAL Grav	TOTAL Grav + Pump	PIPE SIZE (DN)	PIPE SIZE (ID)	PIPE GRADE	DESIGN FLOW (DF)	Qf (Capacity)	Actual	SELF CLEANSING	SLIME CONTROL	Capacity
	m	Ha	EP	EP	mm	mm	%	L/s	L/s	PDWF			Deficit
A	0.0	13.26	1204	1204	225	233.6	0.41	18.86	32.20	6.29	Self Cleansing OK	NA	OK
B	24.49	13.26	1204	1204	225	233.6	0.47	18.86	34.49	6.29	Self Cleansing OK	NA	OK
C	86.80	4.36	312	312	150	149.6	0.65	7.49	12.37	2.50	Self Cleansing OK	NA	OK
D	167.92	3.26	189	189	150	149.6	0.74	5.50	13.20	1.83	Self Cleansing OK	NA	OK
E	243.27	2.16	77	77	150	149.6	4	3.29	30.81	1.10	Self Cleansing OK	NA	OK

SEWERAGE FLOW SCHEDULE (SUMMARY) : Updated Jan 2016									
Complied by:		P Patel		Date:		29.11.22			
Checked by:		F Jaehne		Date:		29.11.22			
Plan No.		EN303433		Location:		421 Cobbitty Rd Cobbitty		JOB No. (SWC use)	
e-Developer No.		CASE201349		Description:		Sewer extension - L.2		00-Jan-00	
								0	
								0	

SUMMARY													
SECTION	CHAINAGE	TOTAL AREA	TOTAL Grav	TOTAL Grav + Pump	PIPE SIZE (DN)	PIPE SIZE (ID)	PIPE GRADE	DESIGN FLOW (DF)	Qf (Capacity)	Actual	SELF CLEANSING	SLIME CONTROL	Capacity
	m	Ha	EP	EP	mm	mm	%	L/s	L/s	PDWF			Deficit
POINT B	0	4.52	882	882	225	233.6	0.43	14.78	32.98	5.24	Self Cleansing OK	NA	OK
F	219.93	3.94	826	826	225	233.6	0.46	14.07	34.12	5.03	Self Cleansing OK	NA	OK
G	313.17	2.8	746	746	225	233.6	0.51	12.90	35.93	4.79	Self Cleansing OK	NA	OK



FLOW DIAGRAM – LINE 1
(NOT TO SCALE)

FLOW DIAGRAM – LINE 2
(NOT TO SCALE)

WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER		SYDNEY WATER CORPORATION	
DEVELOPER	MIRAC HOMES (NSW) PTY LTD	Case No. 201349WW		SHT 8 OF 8 SHTS.	
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD				
CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD				
COMPLETED	28.01.2024				
W.A.C. PREPARED	21.02.2024				
DESIGNER	ORION CONSULTING ENGINEERS PTY LTD				
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1			