



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 PFSL 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	—	—	—	—	
1	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	288591.8289	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	—	—	—	—	

PIPE EMBEDMENT ZONE: - NIL (WHEN USING APPROVED BEDDING MATERIALS)
TRENCH FILL ZONE - TRAFFICABLE: 1 PER 300mm LAYER PER 50m OF SEWER MAIN
- TOTAL No. OF TEST NIL (USING 20:1 SAND/CEMENT STABILISER)

WORK AS CONSTRUCTED CERTIFICATION			
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 DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
225	U.P.V.C.	SN8	399.97	RRJ
150	U.P.V.C.	SN8	974.58	RRJ
DESIGN HEAD, . . . m			NO BOUNDARY TRAPS REQUIRED.	

GDA2020

AUSTRALIAN HEIGHT DATUM

SCALES

PLAN	1:500	SECTION	{	HOR.	1:500
			{	VERT.	1:125

PS

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 304. B13 (41st ED)

UBD

SHEET . 1 . OF . 8 .	File No. EN303433 T3 Sig 1
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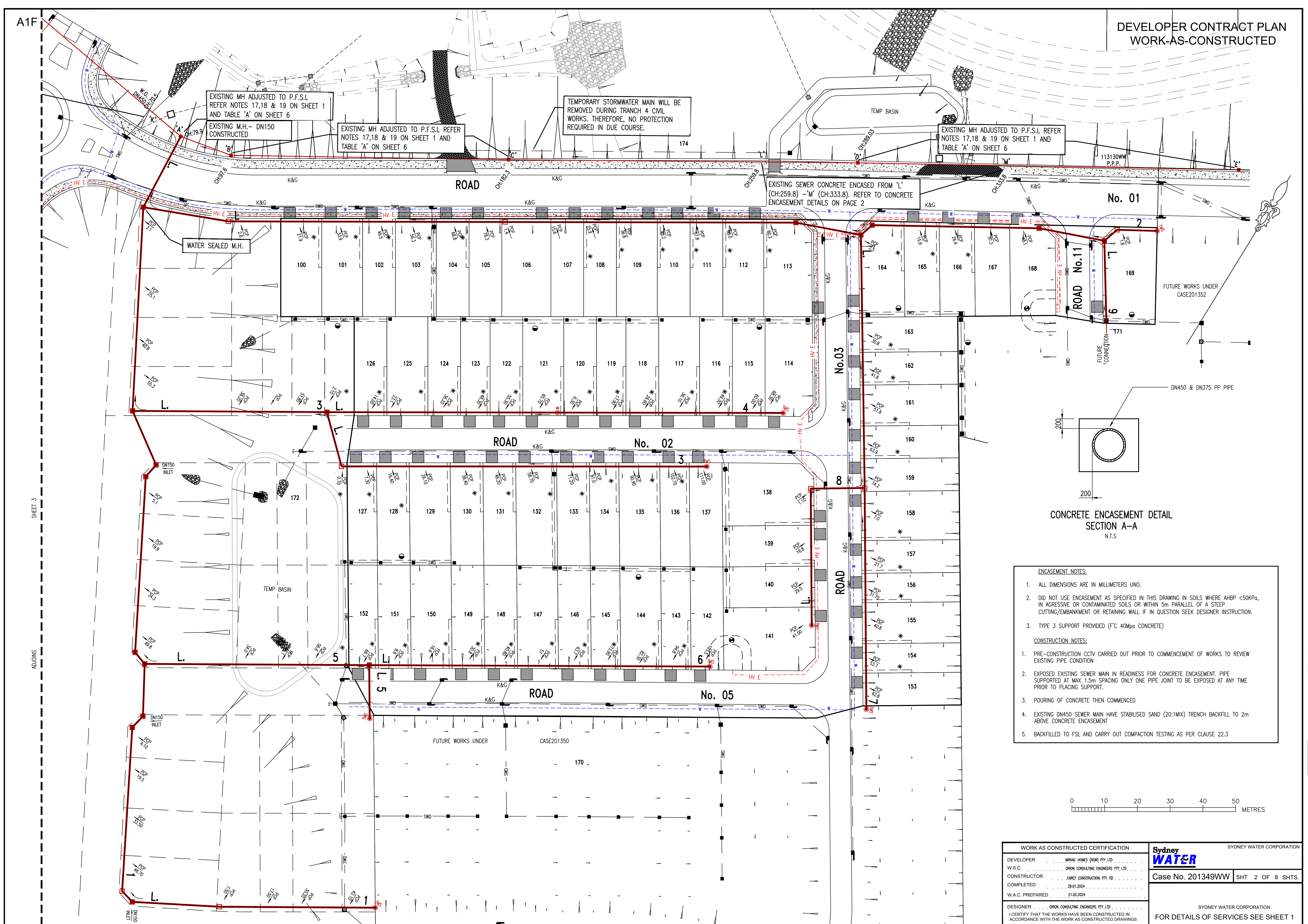


Sydney
WATER

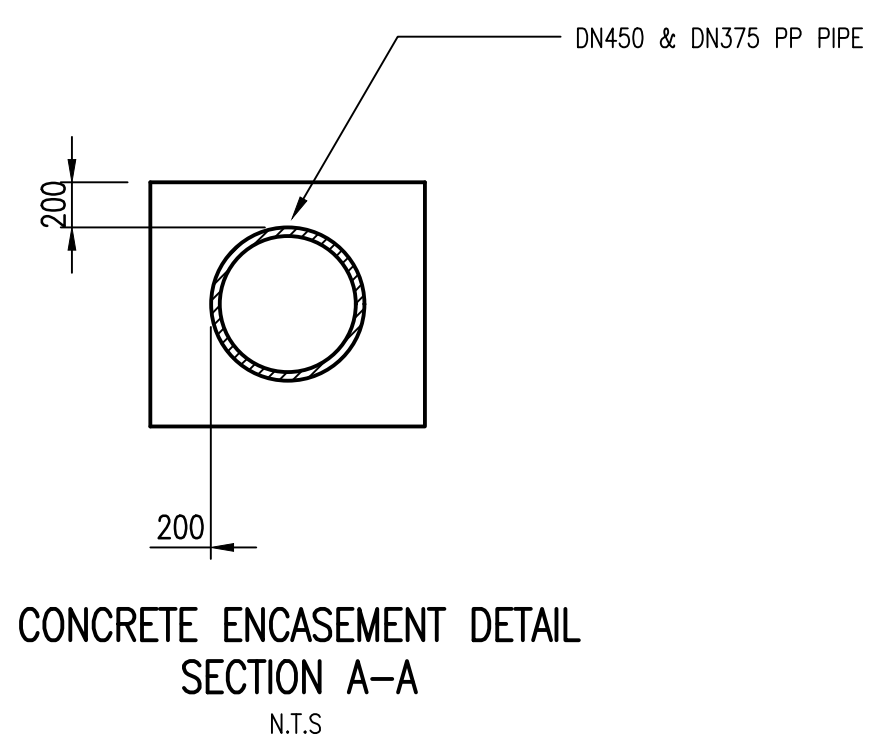
SYDNEY WATER CORPORATION

Case No. 201349WW

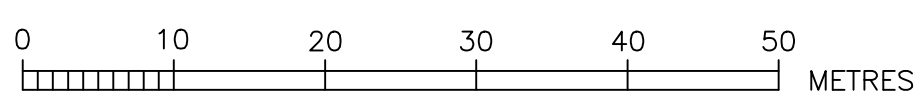
WEST CAMDEN SEWERAGE
DRAINS TO
WEST CAMDEN STP
VIA SP1161 AND SP0673



DEVELOPER CONTRACT PLAN
WORK-AS-CONSTRUCTED



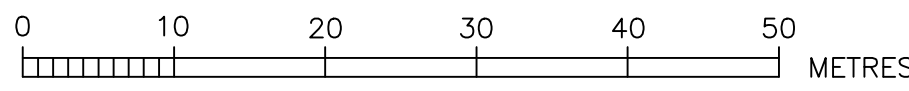
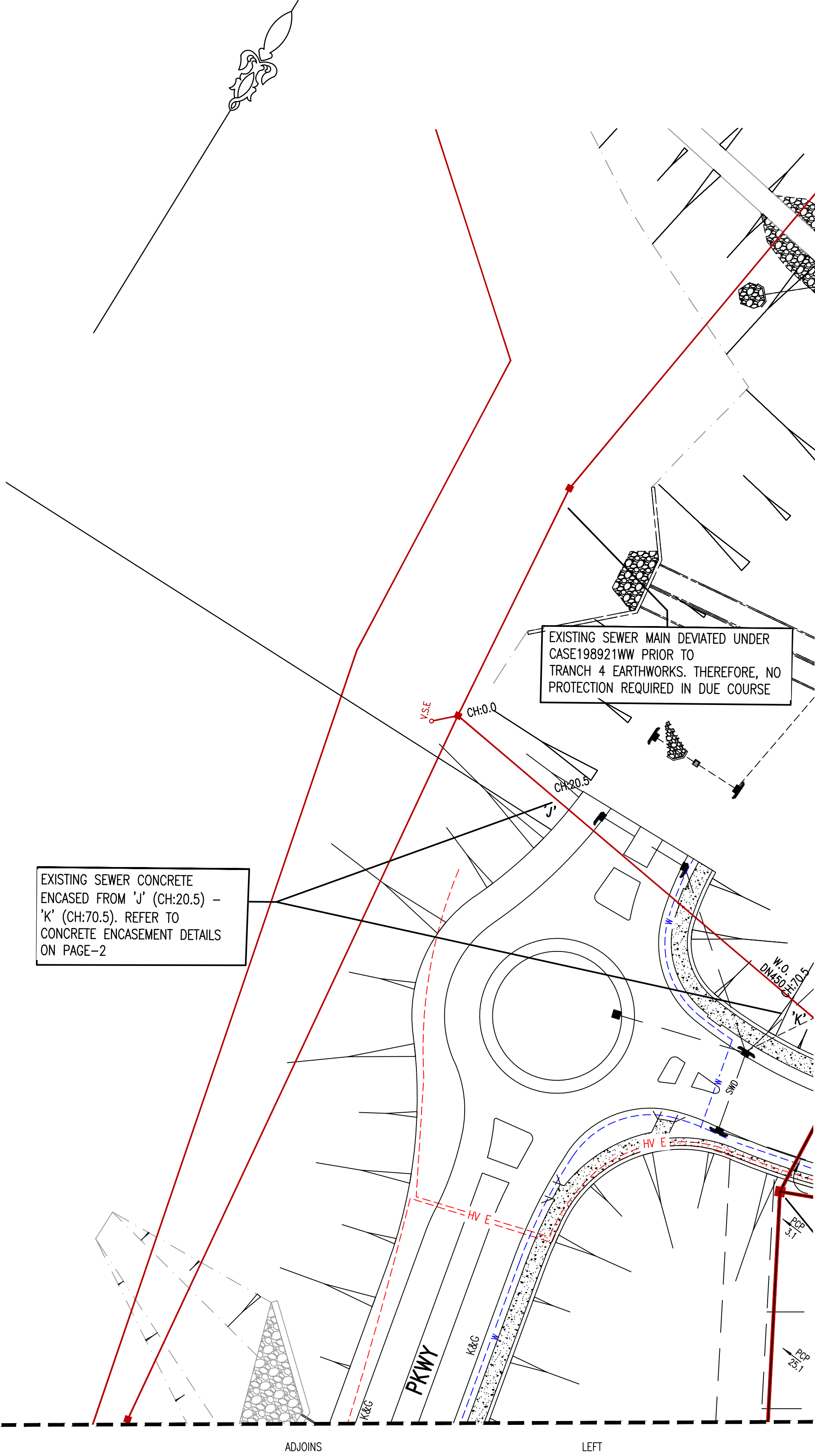
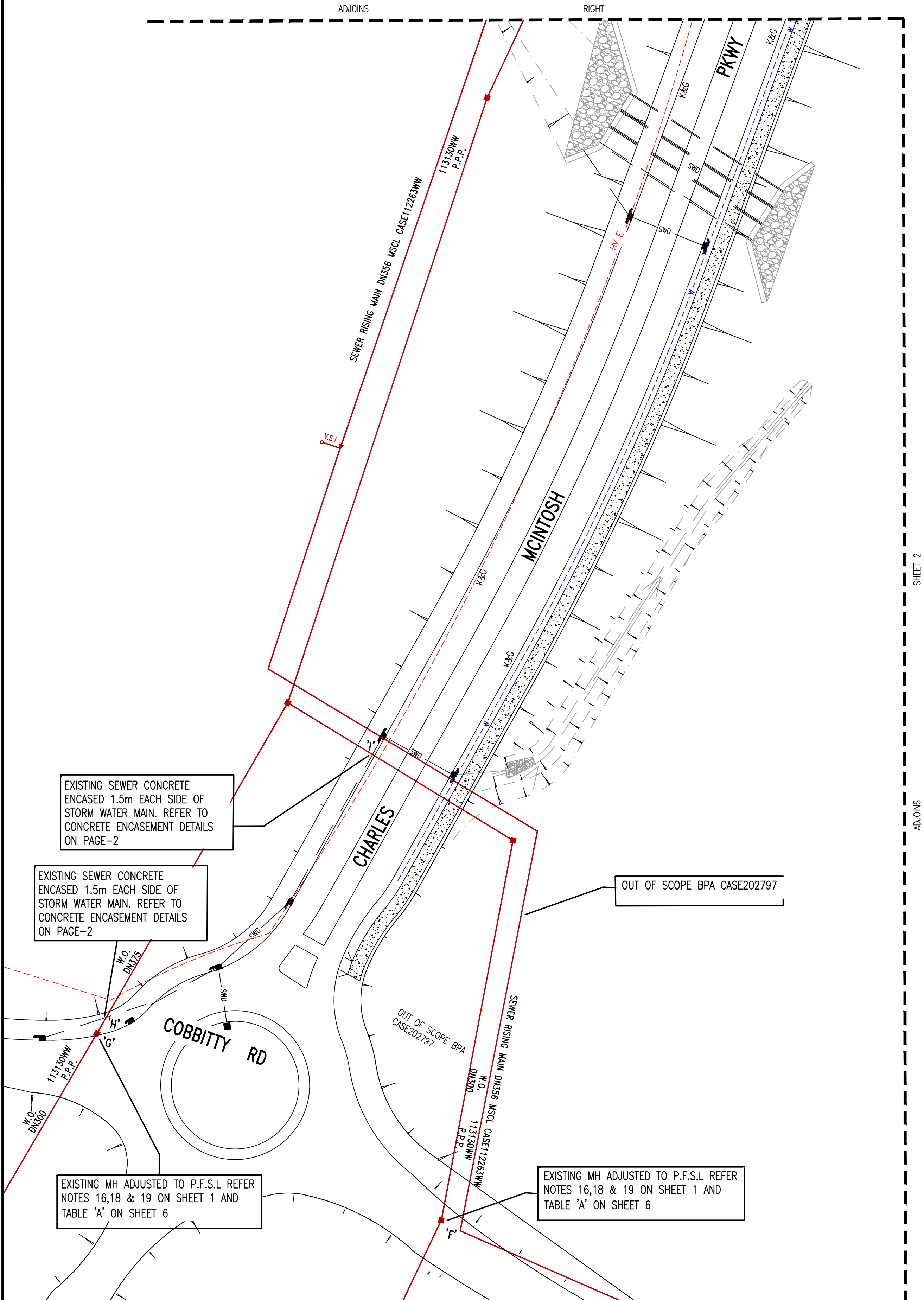
- ENCASEMENT NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETERS UNO.
 - DID NOT USE ENCASEMENT AS SPECIFIED IN THIS DRAWING IN SOILS WHERE AHBP <50KPa, IN AGGRESSIVE OR CONTAMINATED SOILS OR WITHIN 5m PARALLEL OF A STEEP CUTTING/EMBANKMENT OR RETAINING WALL IF IN QUESTION SEEK DESIGNER INSTRUCTION.
 - TYPE 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



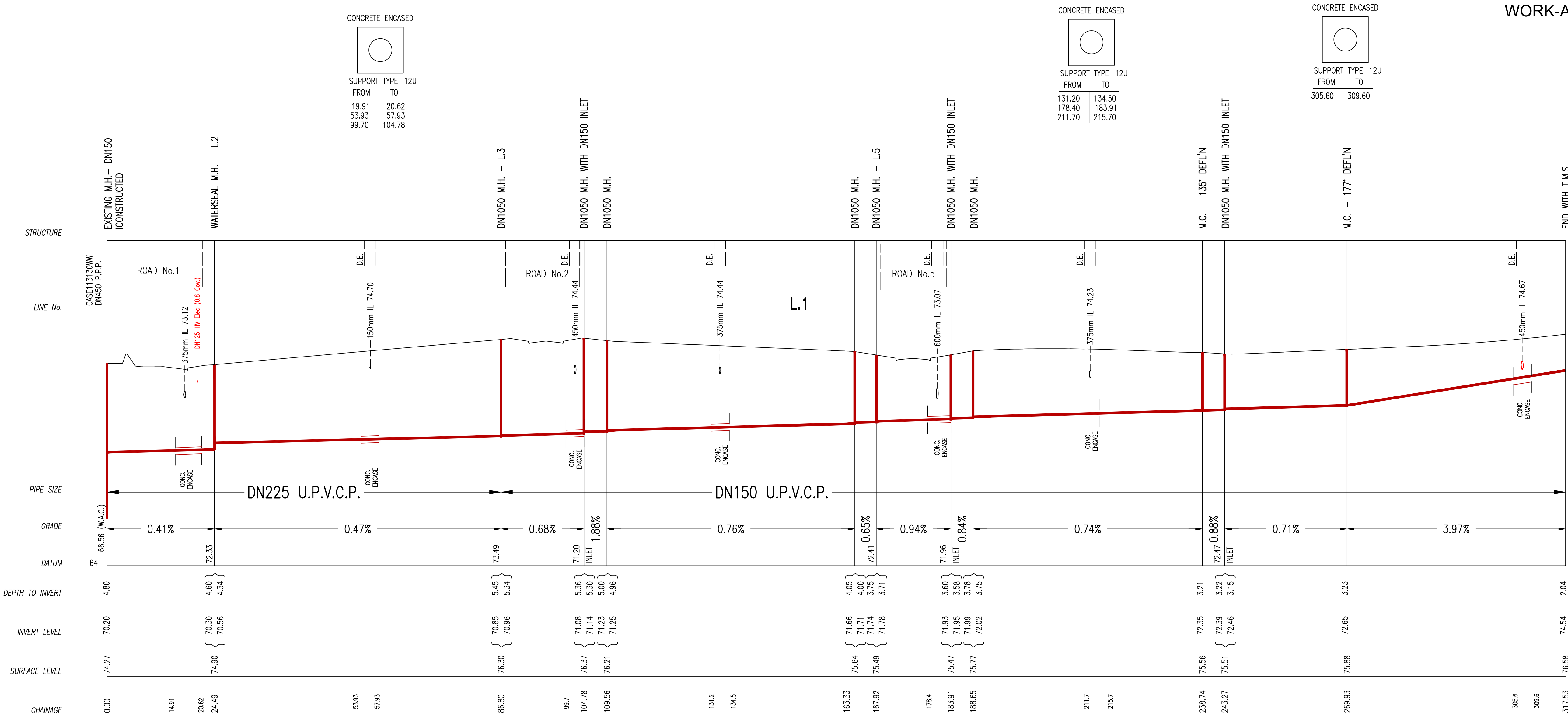
WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	MIRAC HOMES (NSW) PTY LTD		Case No. 201349WW SHT 2 OF 8 SHTS.
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD.		
CONSTRUCTOR	CAREY CONSTRUCTION PTY. LTD		
COMPLETED	29.01.2024		
W.A.C. PREPARED	21.02.2024		
DESIGNER	ORION CONSULTING ENGINEERS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

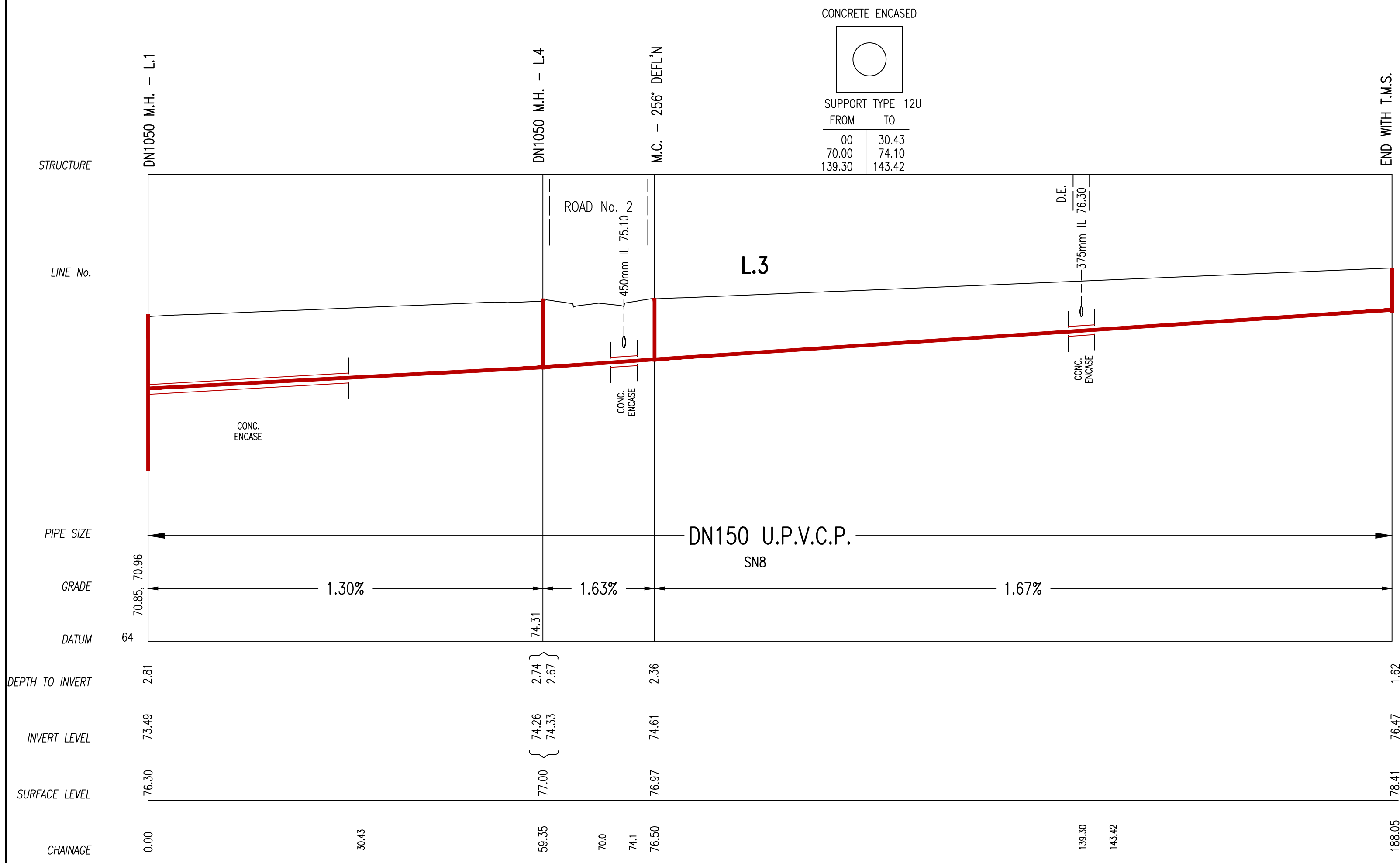
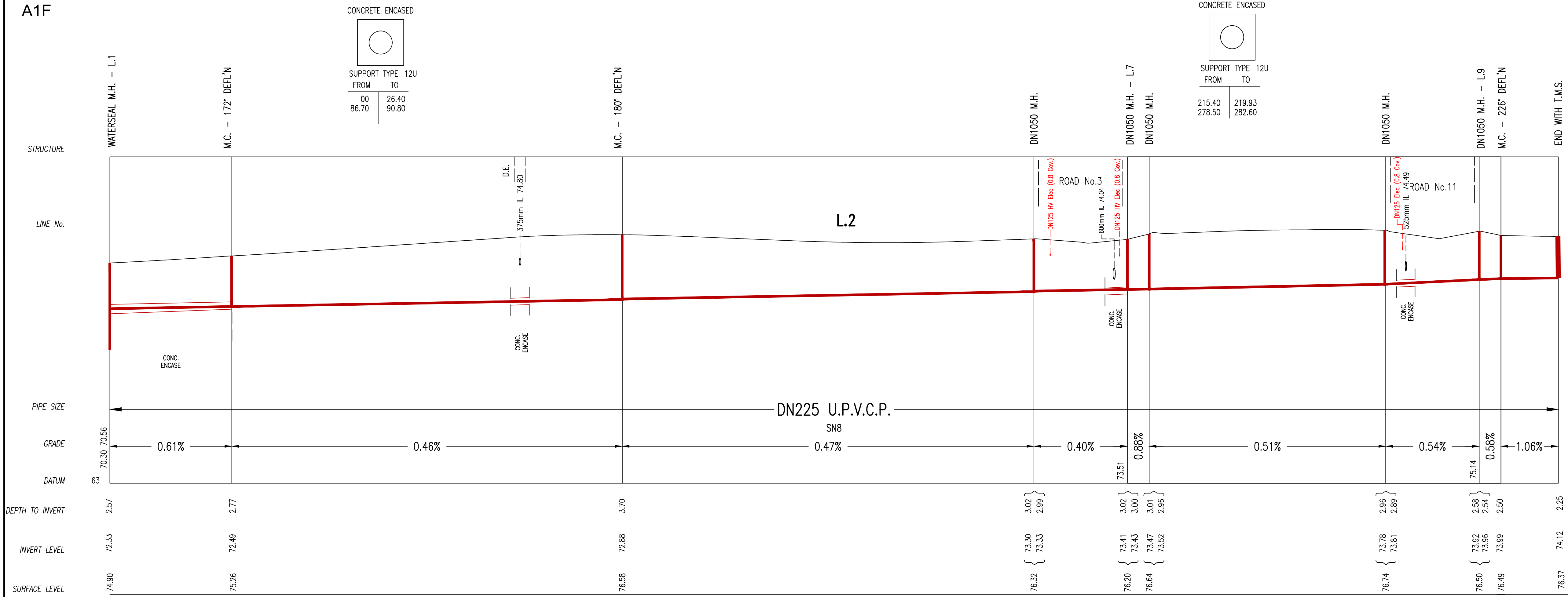
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VERSION: 04
SHEET 2 OF 8 SHEETS



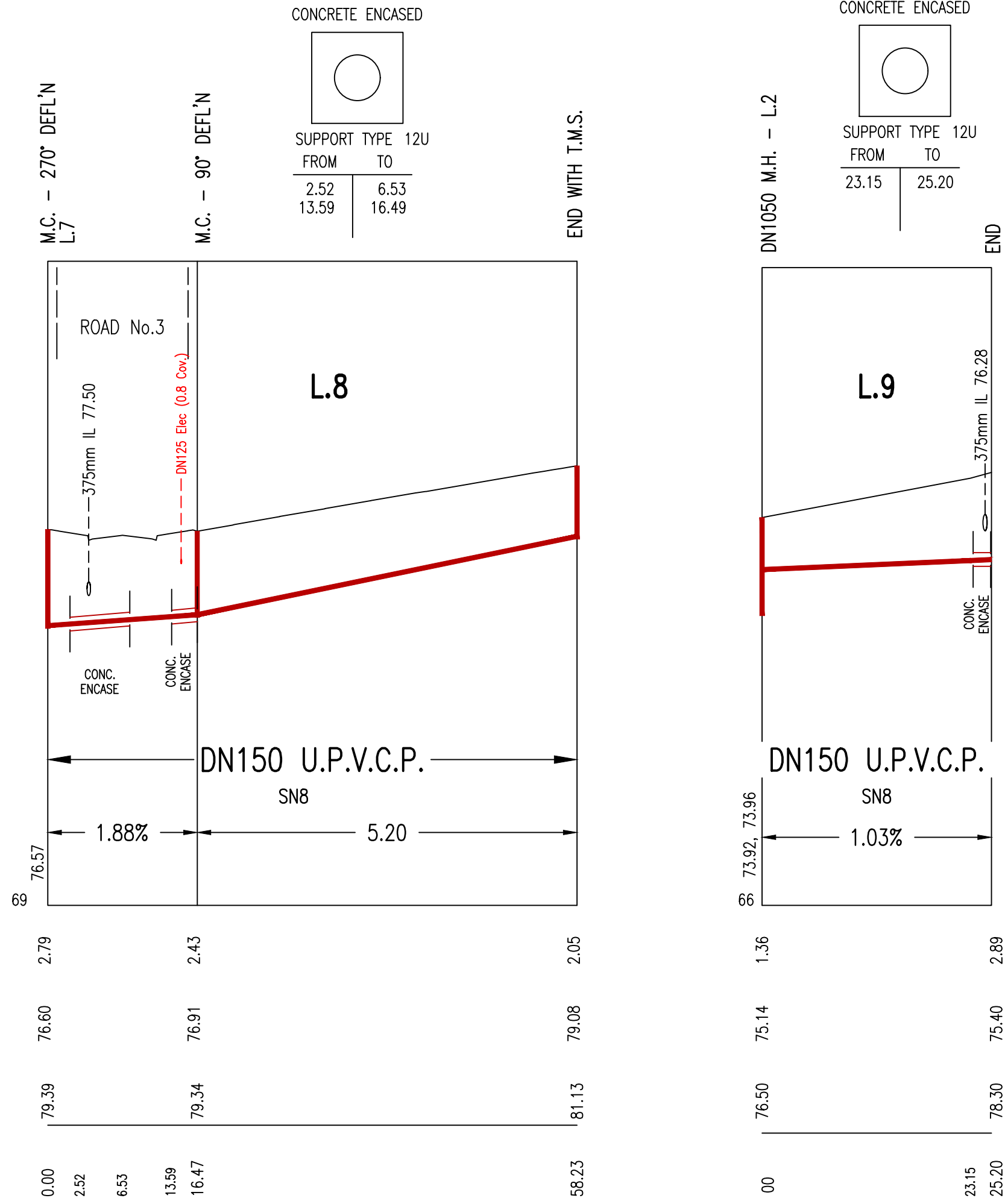
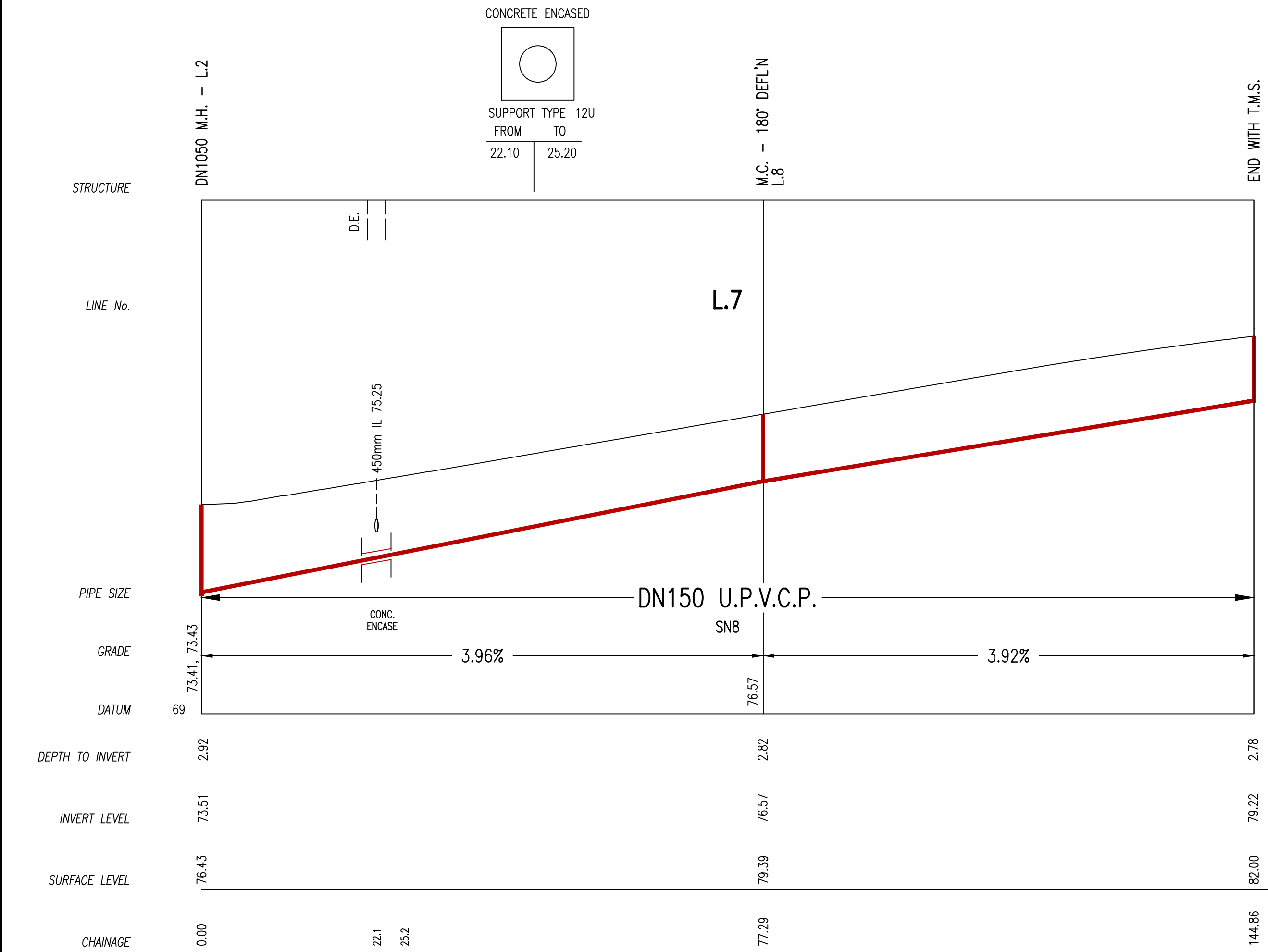
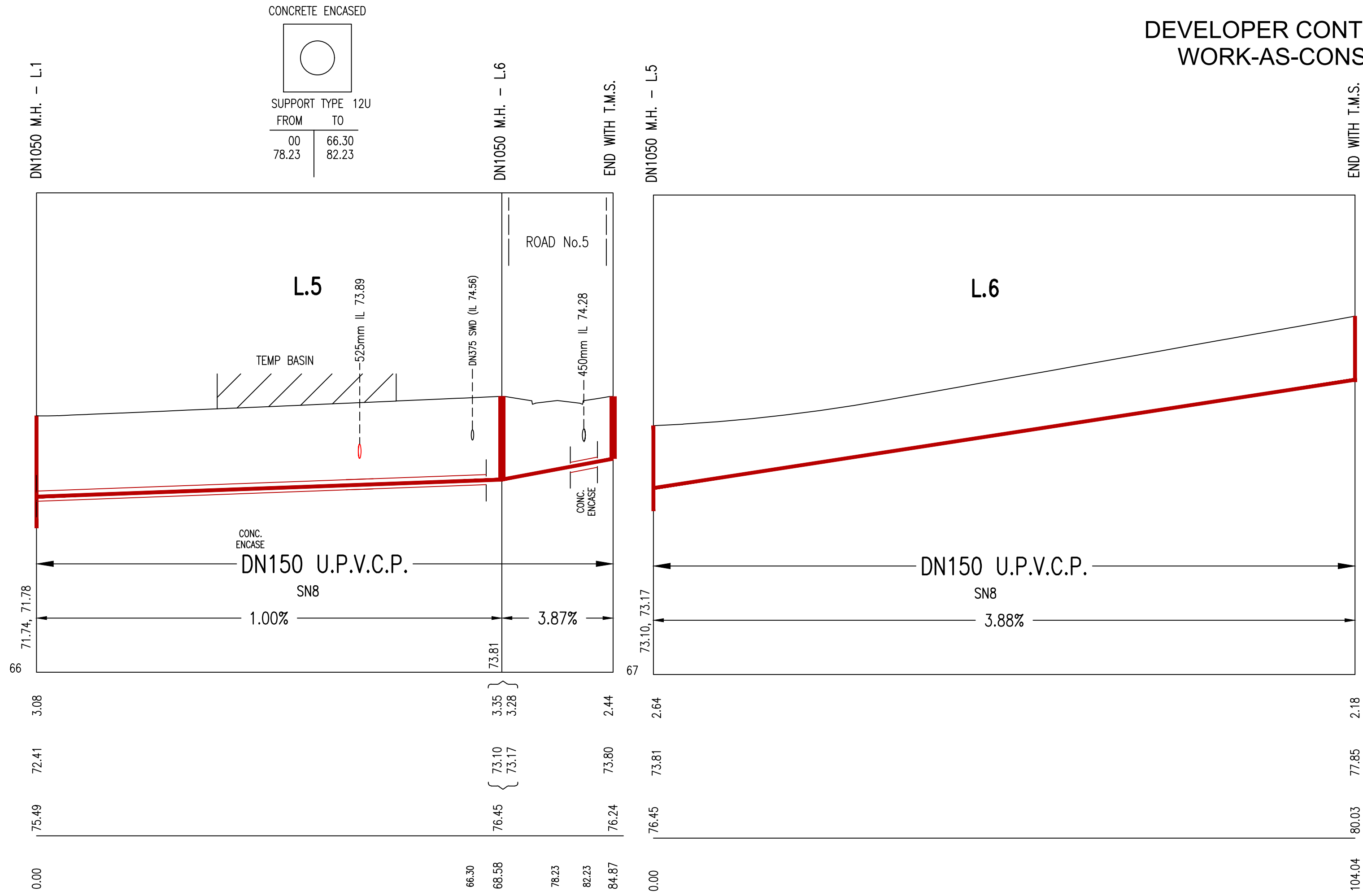
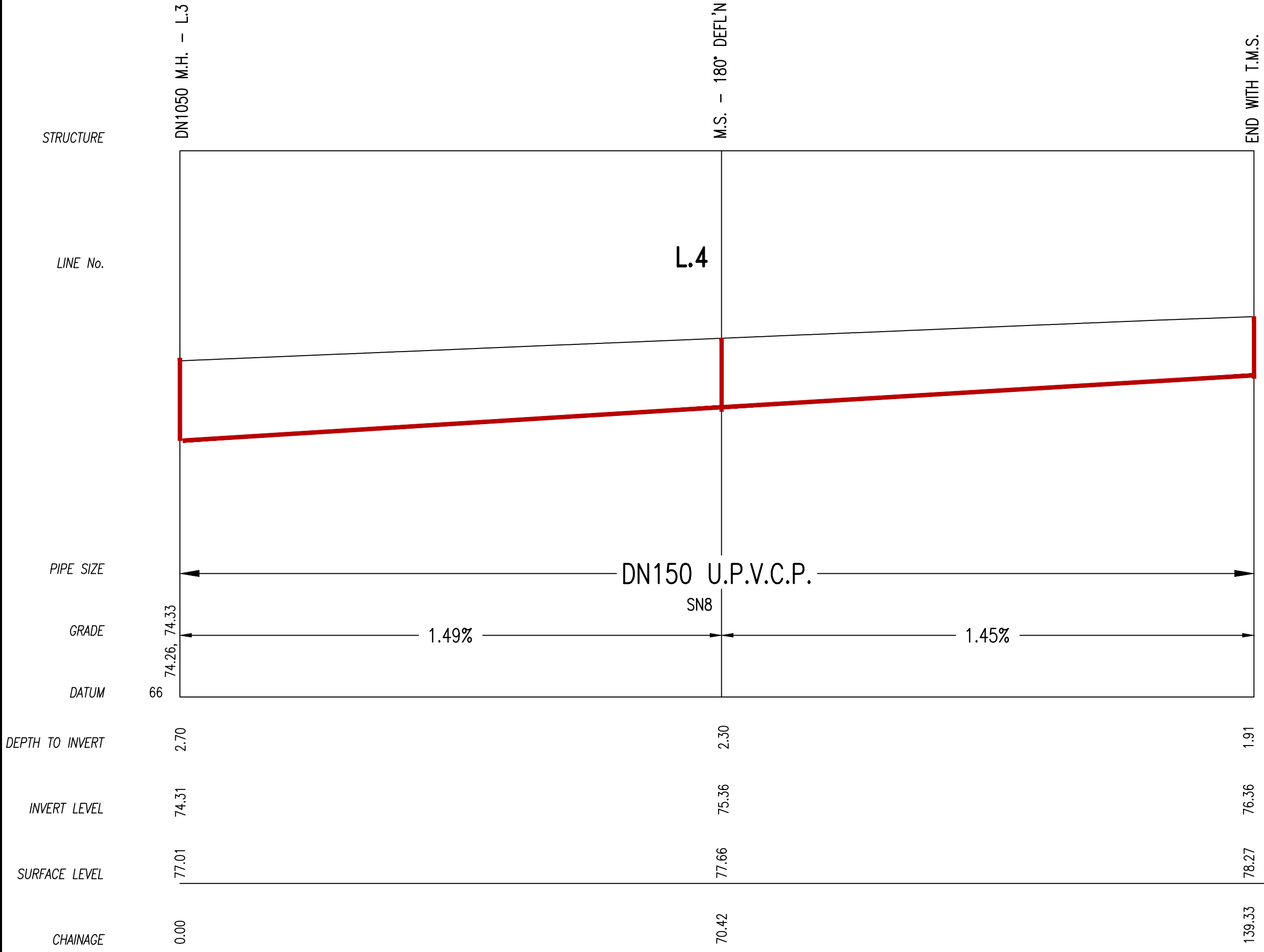
WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER		SYDNEY WATER CORPORATION	
DEVELOPER	MIRVAC HOMES (NSW) PTY LTD	Case No. 201349WWW		SHT 3 OF 8 SHTS.	
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD				
CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1			
COMPLETED	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					



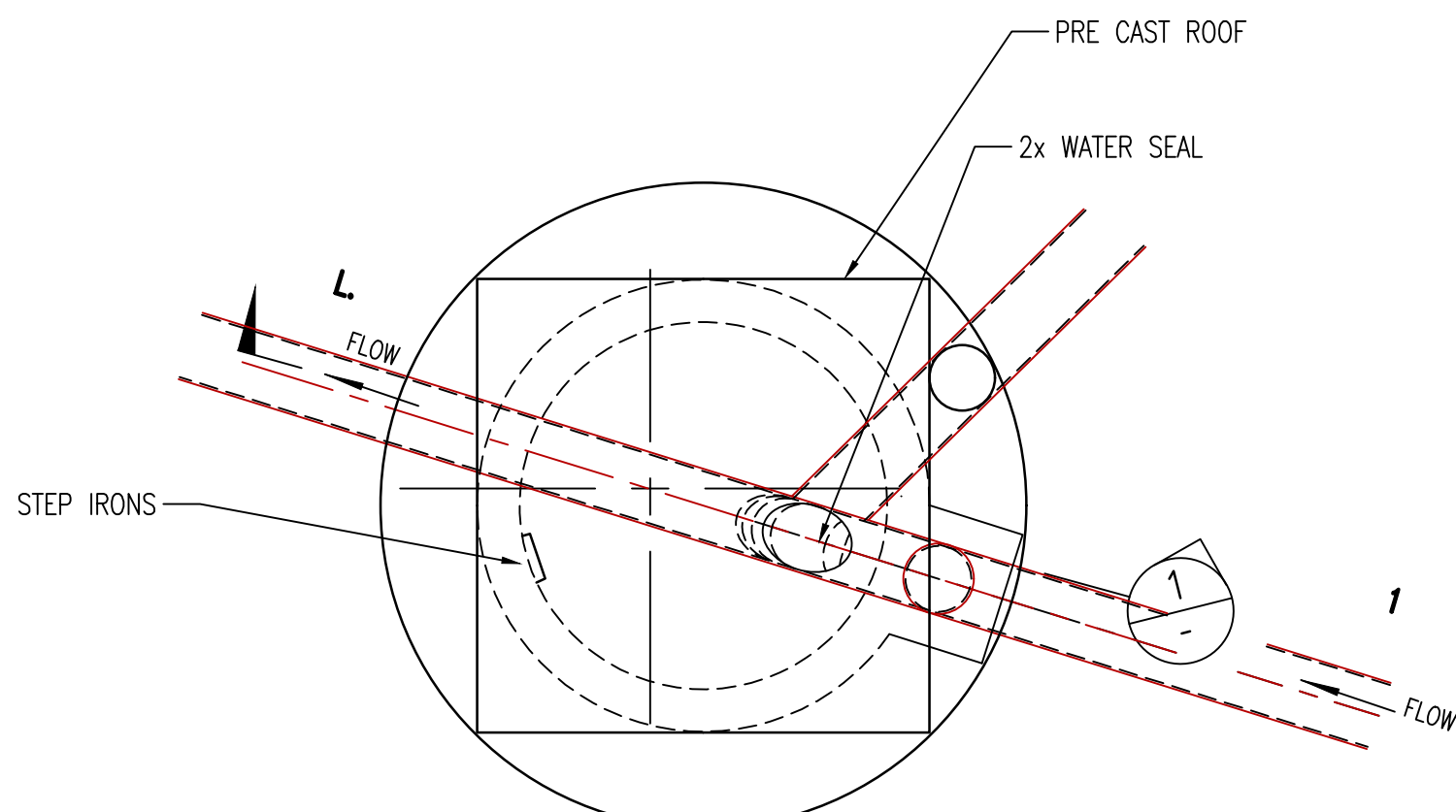
WORK AS CONSTRUCTED CERTIFICATION			SYDNEY WATER CORPORATION	
DEVELOPER	MIRVAC HOMES (NSW) PTY LTD		Sydney WATER	
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD			
CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD		Case No. 201349WW	SHT 4 OF 8 SHTS.
COMPLETED	28/01/2024		SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
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	



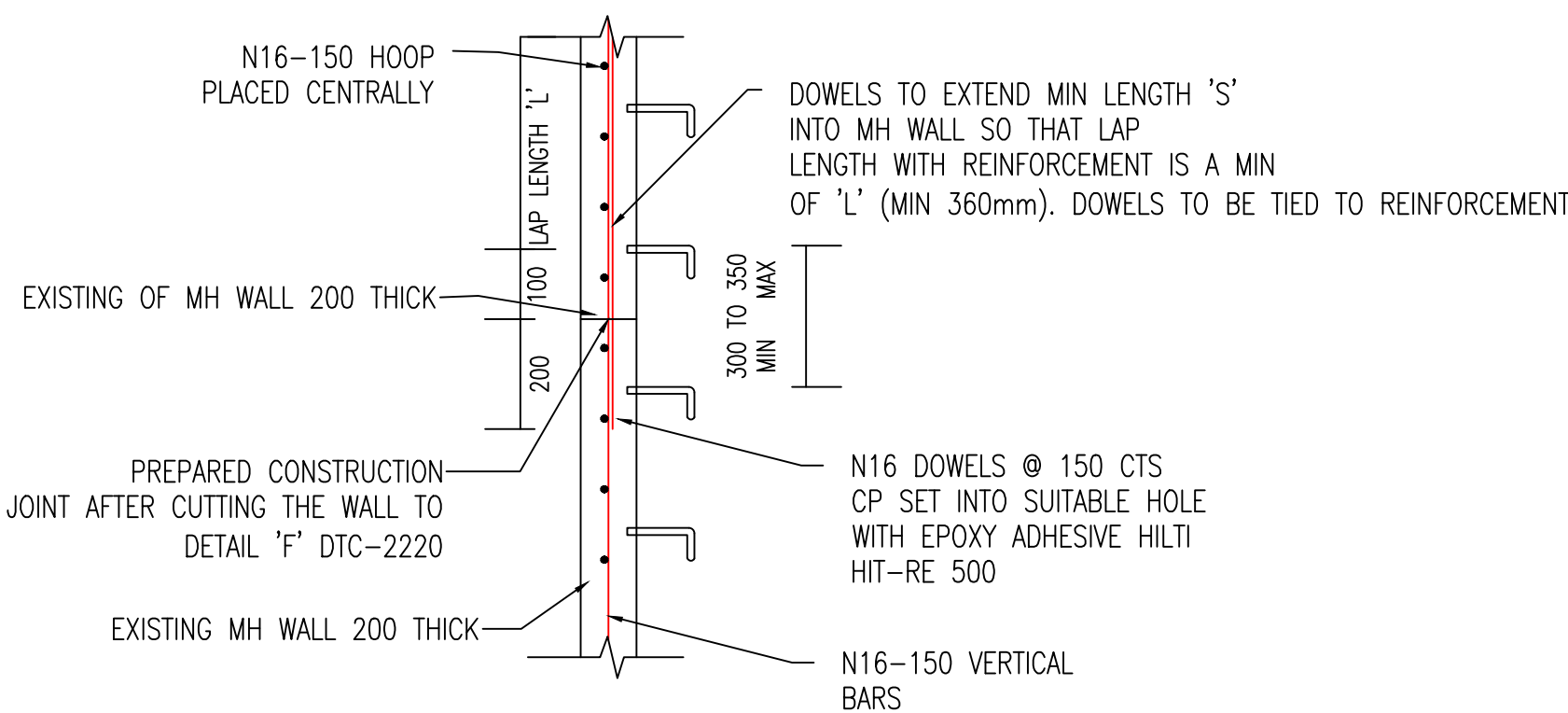
WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER		SYDNEY WATER CORPORATION	
DEVELOPER	MIRVAC HOMES (NSW) PTY LTD	CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD	Case No. 201349WW	SHT 6 OF 8 SHTS.
DESIGNER	ORION CONSULTING ENGINEERS PTY LTD	SYDNEY WATER CORPORATION			
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1			



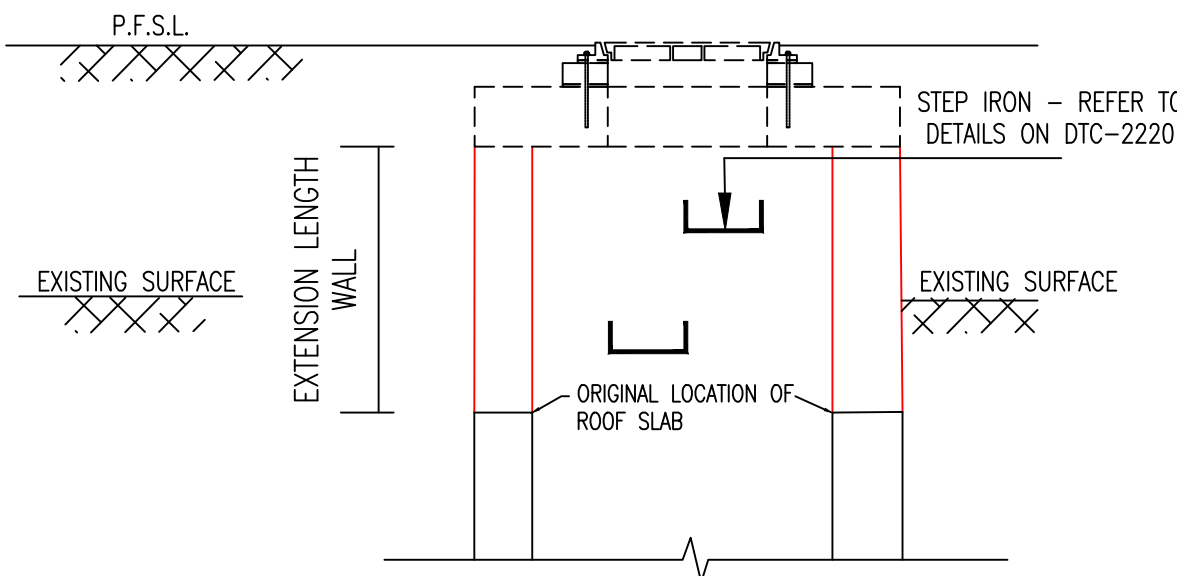
SCHEMATIC WATER SEALED MH PLAN
(NOT TO SCALE)

STRUCTURAL NOTES:

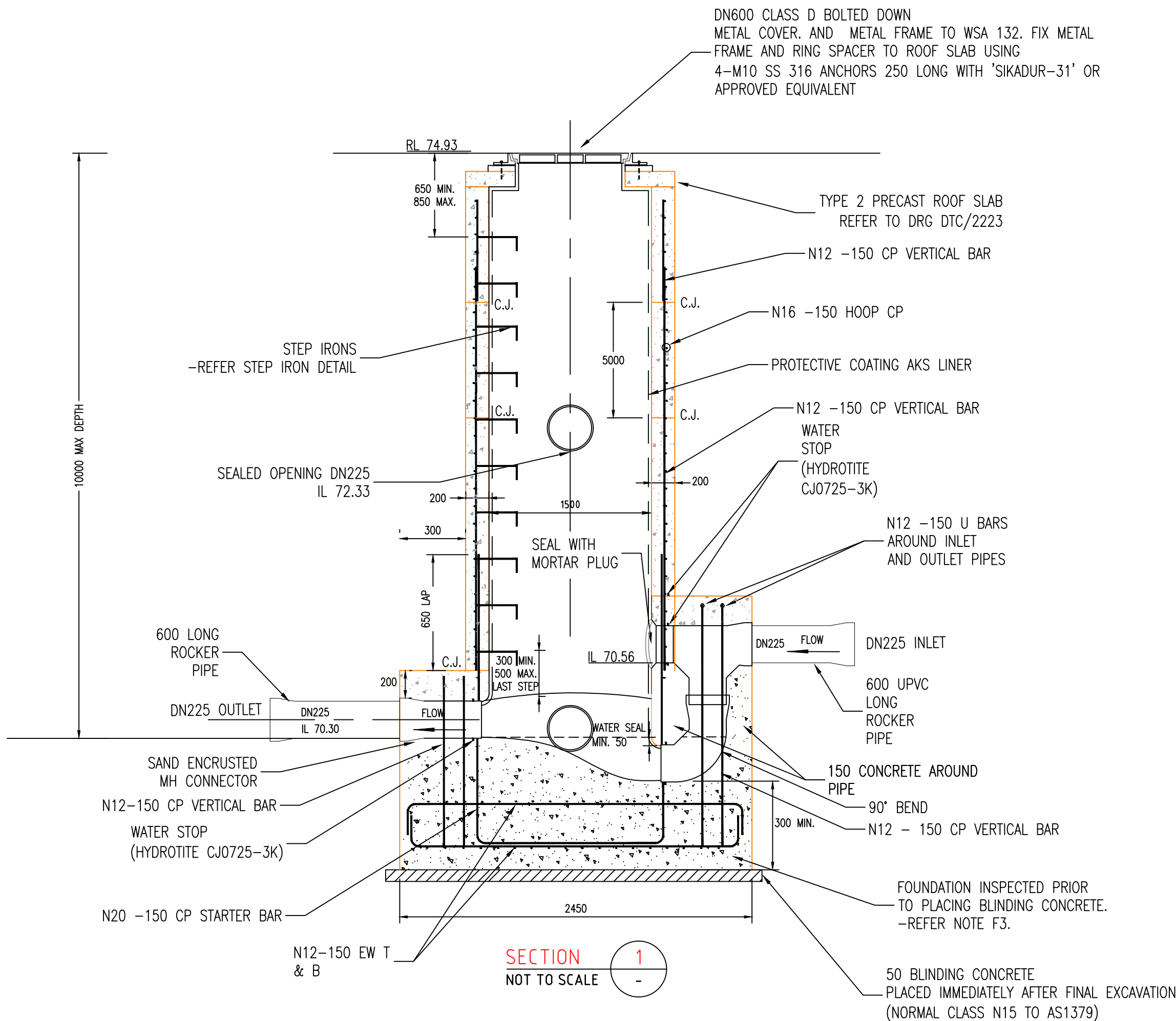
1. DEPTH OF MH DID NOT EXCEED 10.0m MEASURED FROM TOP OF THE LID TO INVERT OF THE MH
2. THIS DESIGN IS SUITABLE FOR TRAFFICABLE AND NON TRAFFICABLE AREAS
3. MINIMUM ALLOWABLE BEARING PRESSURE FOR MH WAS 250kPa (FOR 10m DEEP MH AND 100kPa FOR MH<= 6m DEEP)
4. CONCRETE EXPOSURE CLASSIFICATION D (AS 3735)
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 SIKATISOL 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



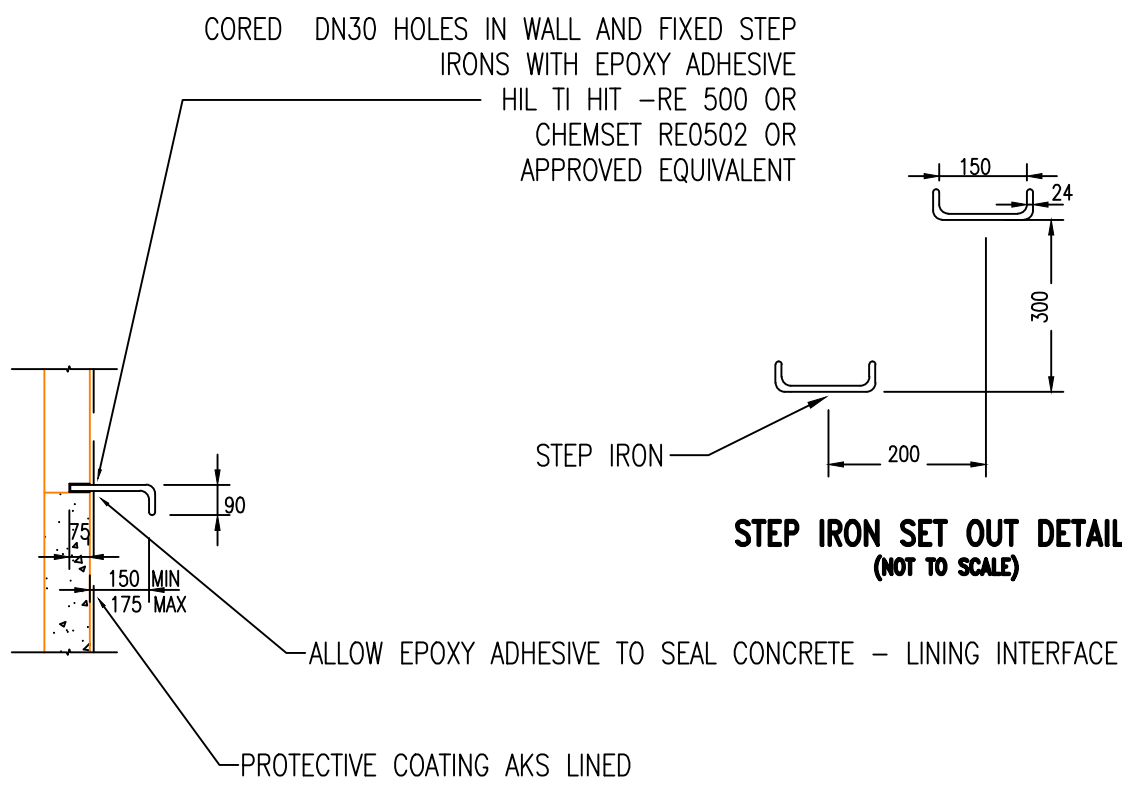
SCHEMATIC FOR OVERALL CUT MH WALL



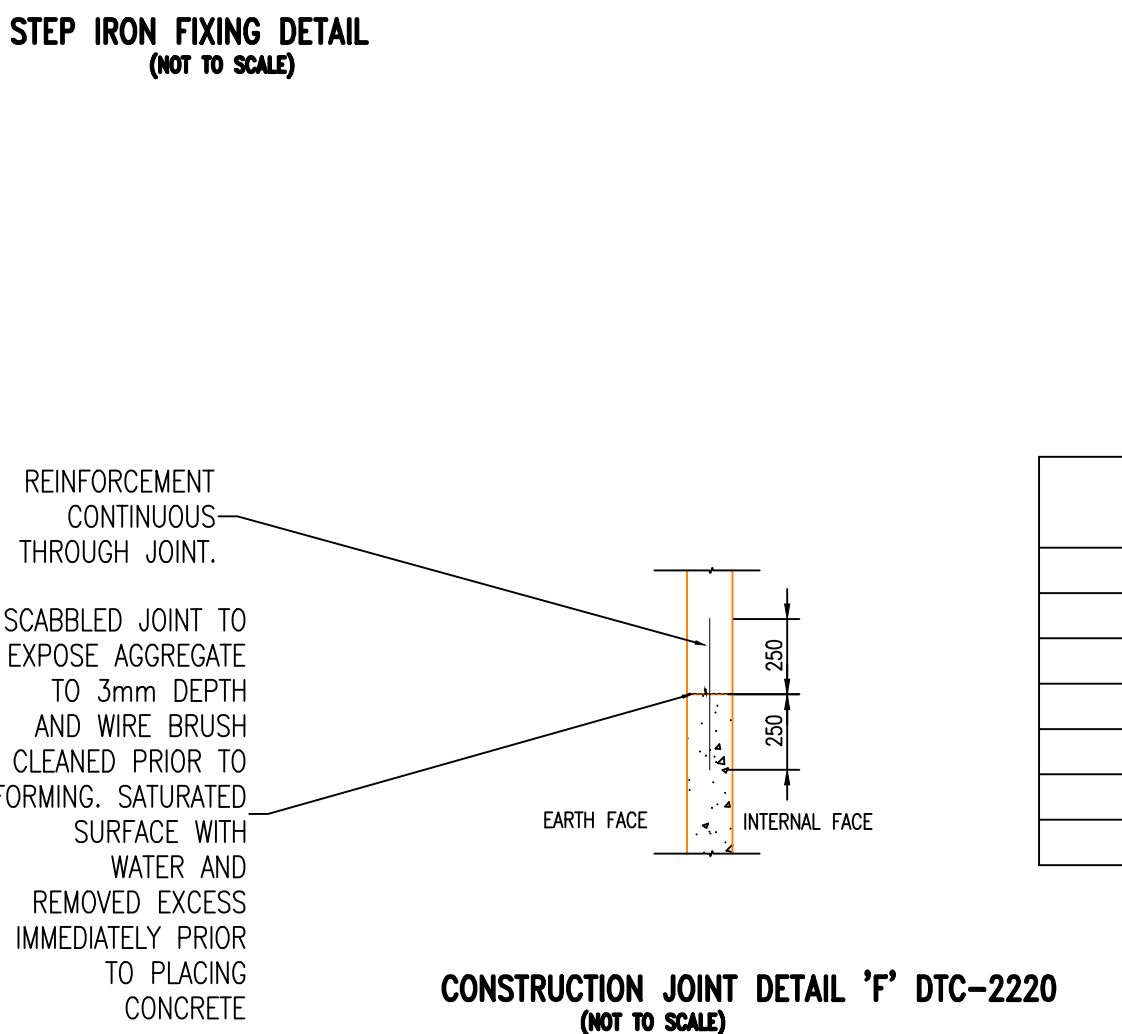
SCHEMATIC FOR OVERALL EXTENSION MH WALL



SECTION 1
NOT TO SCALE



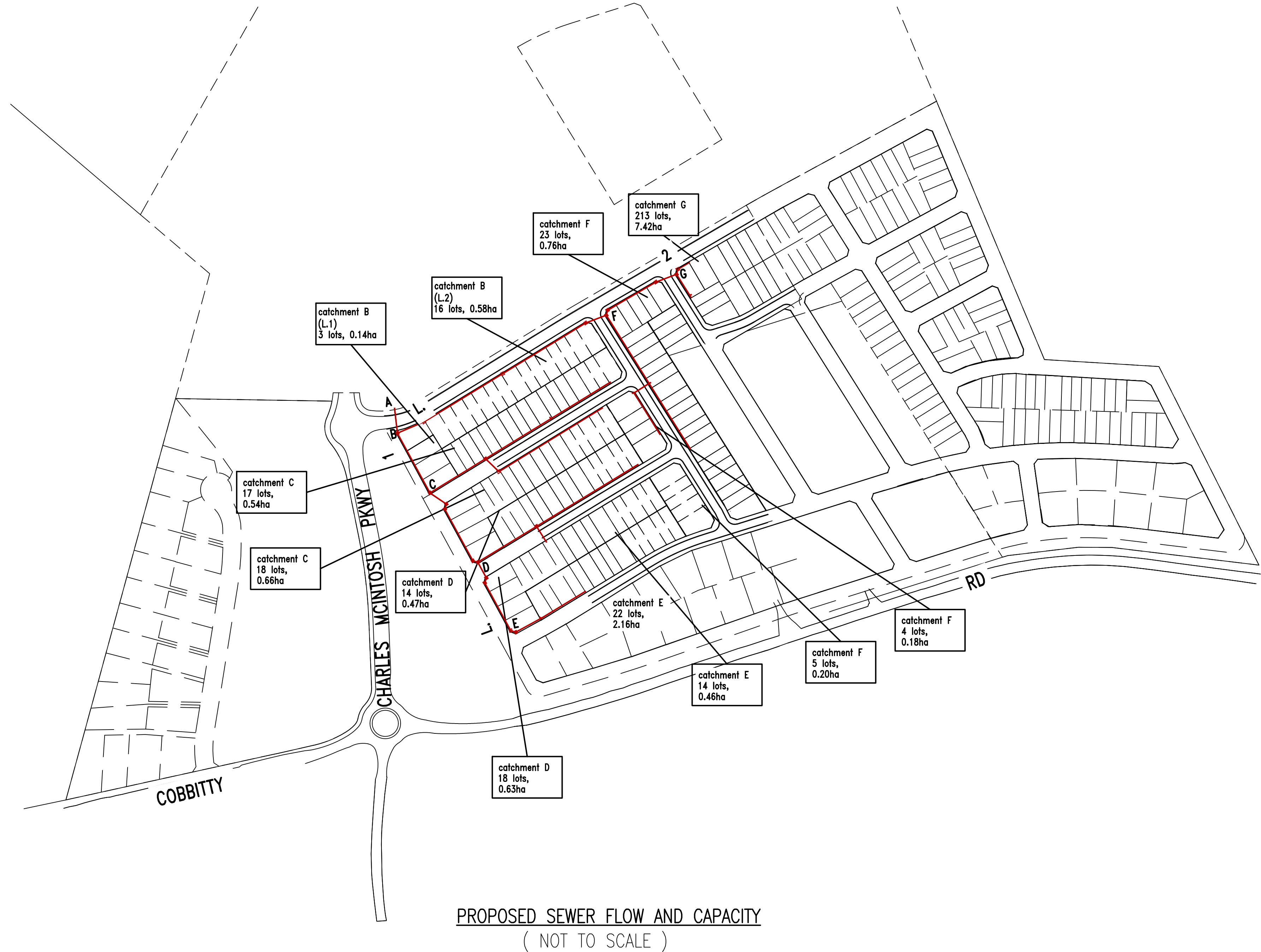
STEP IRON SET OUT DETAIL
(NOT TO SCALE)



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

TABLE 'A'											
MAINTENANCE STRUCTURE		EASTING	NORTHING	INVERT LEVEL	EXISTING SURFACE LEVEL	PROPOSED FINISHED SURFACE LEVEL	HEIGHT DIFFERENCE	EXTENSION LENGTH WALL 'Y'	DOWEL EXTENSION 'S'	LAP LENGTH WITH REO 'S'	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.					
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		

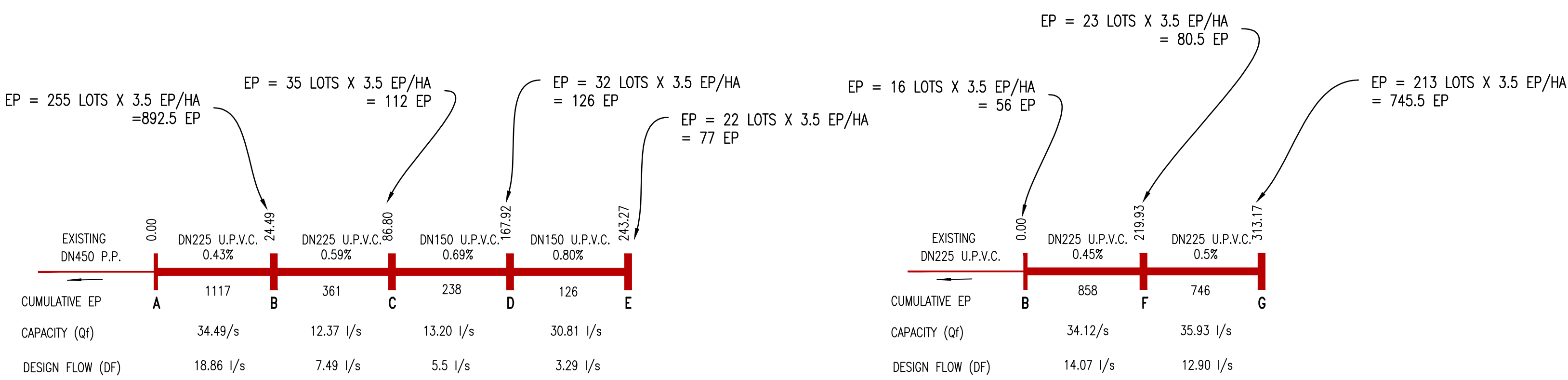


SEWERAGE FLOW SCHEDULE (SUMMARY) : Updated Jan 2016											
Complied by:		P Patel		Date:		29.11.22					
Checked by:		F Jaehne		Date:		29.11.22					
Plan No.		EN30433		Location:		421 Cobbitty Rd Cobbitty		JOB No. (SWC use)		0	
e-Developer No.		CASE201349		Description:		Sewer extension - L.1		00-Jan-00		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)		0	
e-Developer No.		CASE201349		Description:		Sewer extension - L.2		00-Jan-00		0	

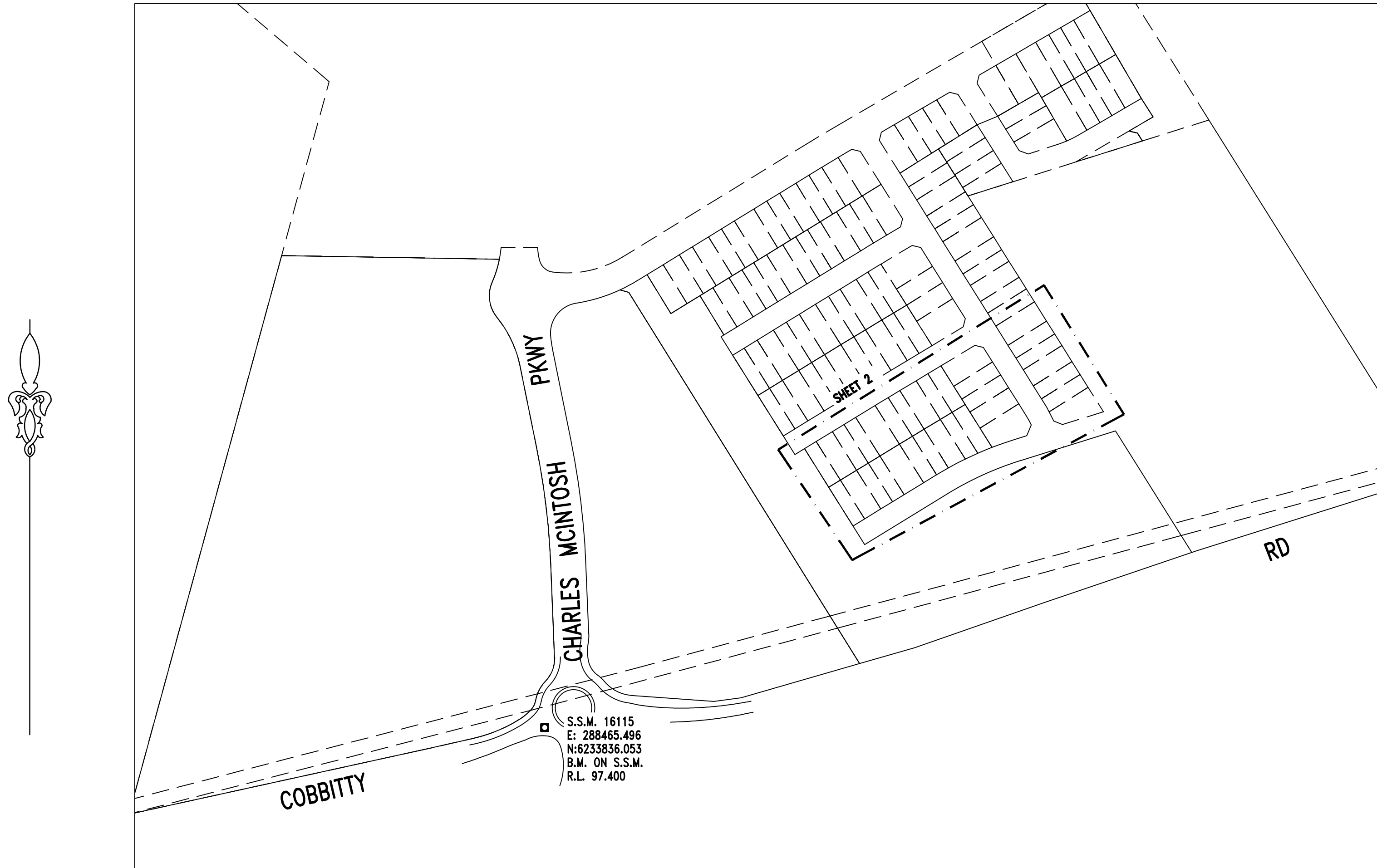
SUMMARY													
SECTION	CHAINAGE	TOTAL AREA	TOTAL Grav	TOTAL Grav + Pump	PIPE SIZE (DN)	PIPE SIZE (ID)	PIPE GRADE	DESIGN FLOW (DF)	Qf (Capacity)	Actual	SELF CLEANSING	SLIME CONTROL	Capacity
	m	Ha	EP	EP	mm	mm	%	L/s	L/s	PDWF			Deficit
POINT B	0	4.52	882	882	225	233.6	0.43	14.78	32.98	5.24	Self Cleansing 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



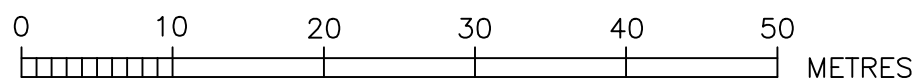
FLOW DIAGRAM – LINE 1
(NOT TO SCALE)

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			



PM & LOCALITY PLAN
(NOT TO SCALE)



NOTES:-

1. WATER SERVICING CO-ORDINATOR:
KF WILLIAMS ENVIRONMENTAL SERVICES PTY LTD
LEVEL 1, 497 PRINCIPLES 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 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 TYPE 12U (REFER SEW-1205-V)

5. ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
6. EXISTING AND PROPOSED SERVICES WERE INDICATIVE ONLY. CURRENT SERVICES SEARCH & SITE CHECK (ALL EXISTING & PROPOSED SERVICES WAS NECESSARY PRIOR TO THE COMMENCEMENT OF WORK & APPROPRIATE PROCEDURES, PRECAUTIONS AND CARE TAKEN BY THE CONSTRUCTOR WHEN WORKED IN CLOSE PROXIMITY TO SERVICES DURING CONSTRUCTION AND ANY DAMAGE TO EXISTING SERVICES RECTIFIED AT THE CONSTRUCTORS EXPENSE.
7. THE NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE SEWERAGE CODE OF AUSTRALIA (CLAUSE 22.3.4.4) ARE:

PIPE EMBEDMENT ZONE: - NIL (WHEN USING APPROVED BEDDING MATERIALS)
TRENCH FILL ZONE - TRAFFICABLE: 1 PER 300mm LAYER PER 50m OF SEWER MAIN -
TOTAL No. OF TEST NIL (USING 14:1 SAND/CEMENT STABILISER)
TRENCH FILL ZONE - NON-TRAFFICABLE: 1 PER 900mm LAYER PER 100m OF SEWER

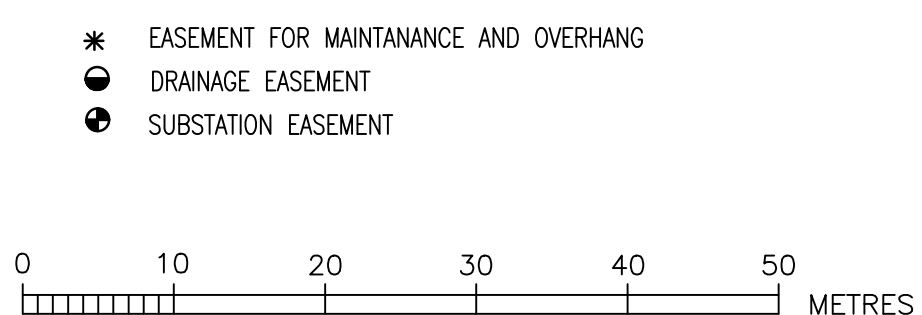
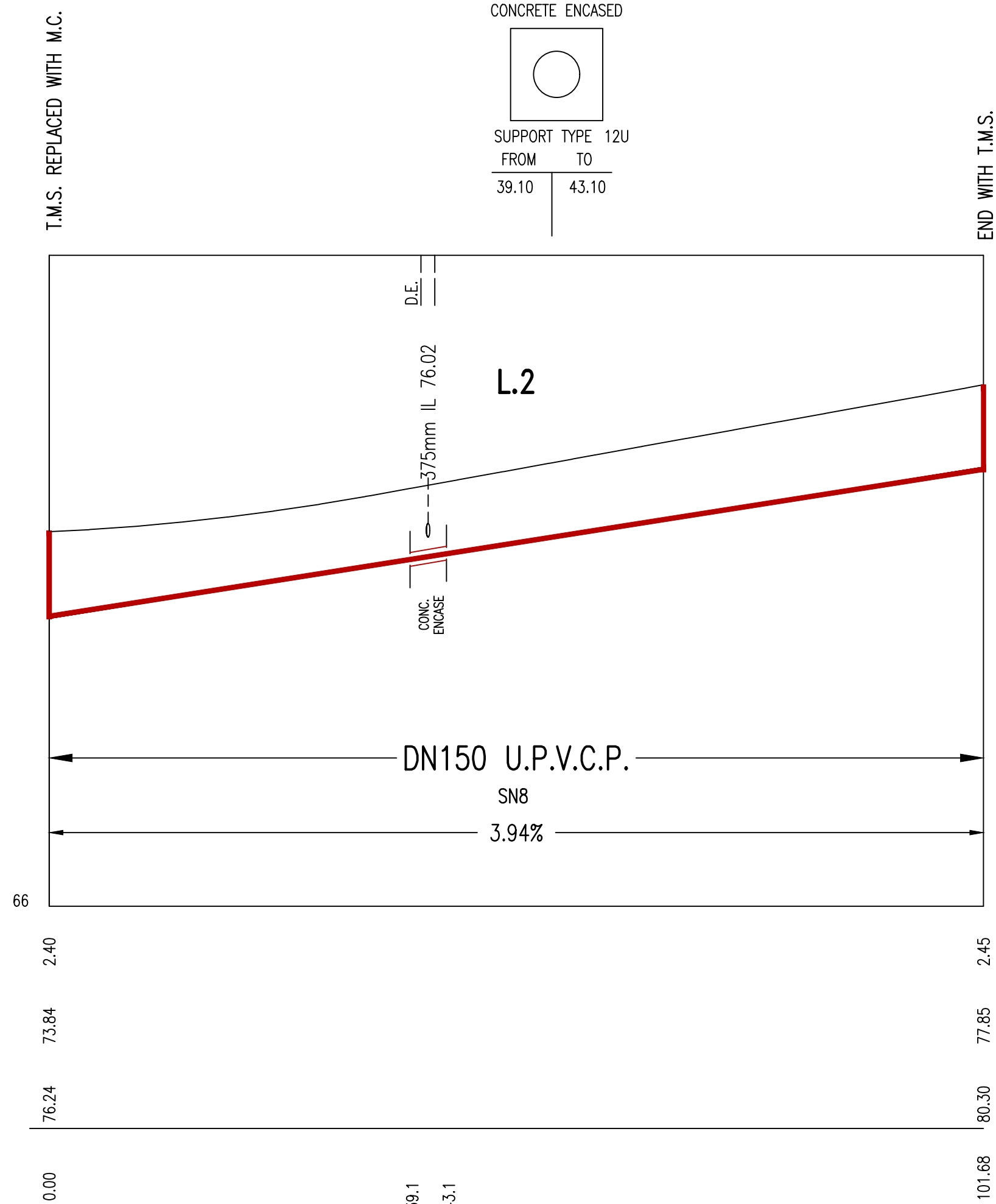
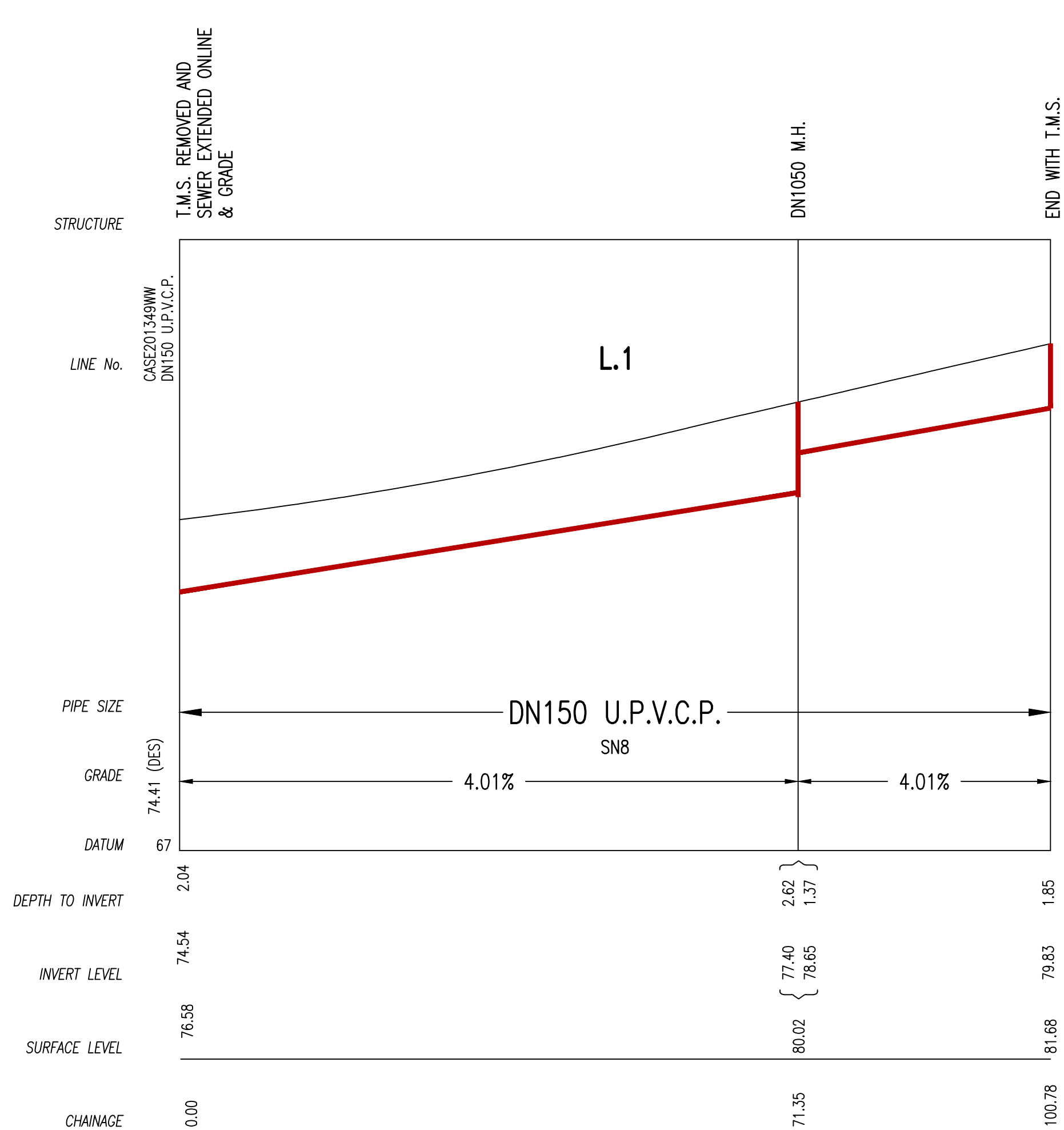
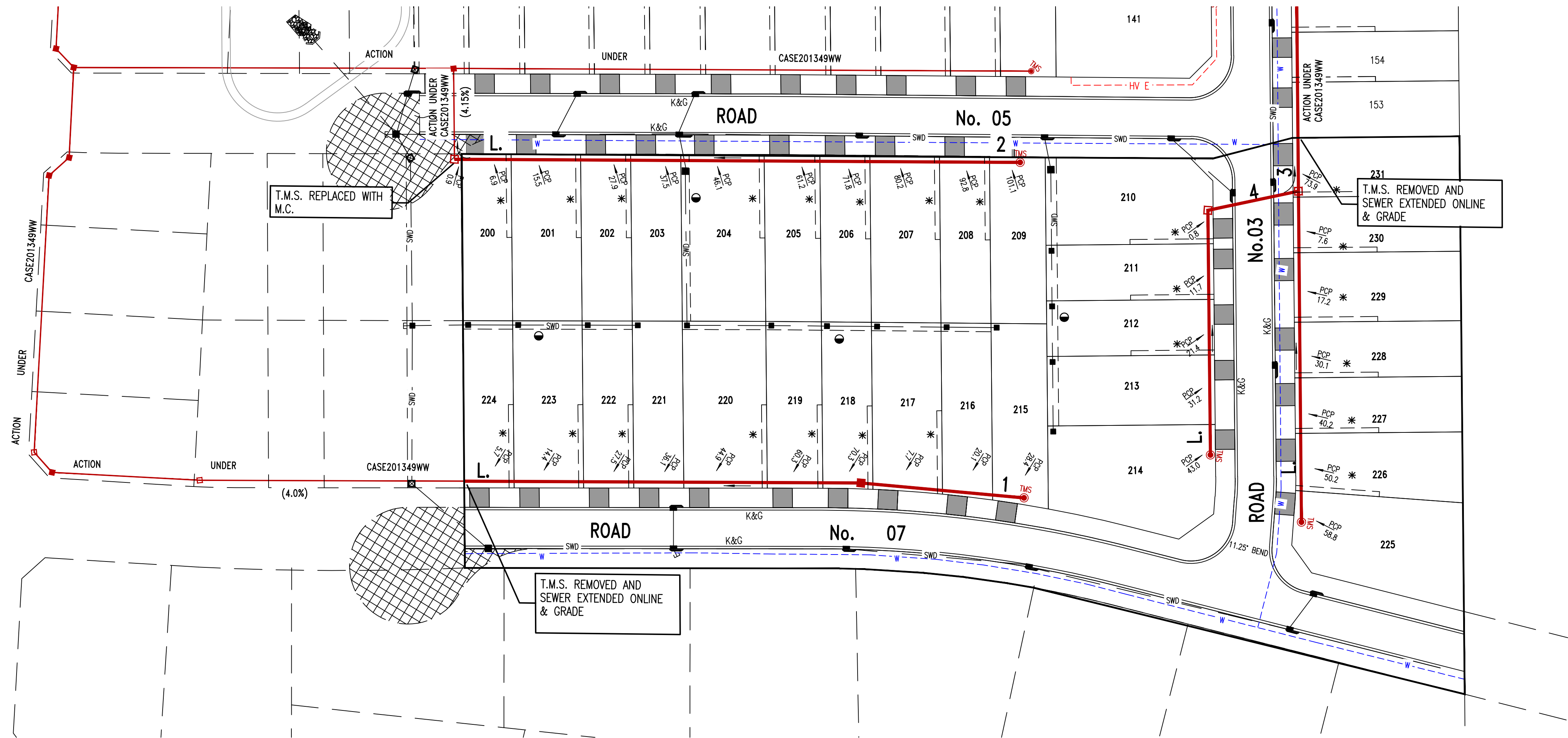
MAIN - TOTAL No. OF TESTS: 17
& M.S. ZONE: 1 PER 1m DEPTH AT ONE LOCATION WITHIN 300mm OF EACH M.S. & M.H.
- TOTAL No. OF TESTS: 16

8. LOCATION OF SEWER LINES MARKED BY A REGISTERED LAND SURVEYOR PRIOR TO CONSTRUCTION
9. CONTRACTOR NOTIFIED WSC IF THEY FOUND 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 WAS THE RESPONSIBILITY OF THE CONTRACTOR.
11. INVERT LEVEL OF EXISTING SEWER AT CHOO CONFIRMED BY SURVEY PRIOR TO COMMENCEMENT OF CONSTRUCTION. WSC TO BE ADVISED.
12. SUBSURFACE CONDITIONS, INCLUDING GROUNDWATER, CONTAMINATION, UNRECORDED BURIED MATERIAL OR OBJECTS AND ARCHAEOLOGICAL SIGNIFICANT ITEMS MAY BE ENCOUNTERED DURING CONSTRUCTION, REQUIRING FURTHER ENVIRONMENTAL, GEOTECHNICAL OR ARCHAEOLOGICAL ASSESSMENT AND APPLICATION OF APPROPRIATE CONSTRUCTION METHODS AND STANDARDS.
13. CONTRACTOR RECONFORMED FINISHED SURFACE LEVEL WITH CIVIL WORKS 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 STRUTURE. ALL PCS LOCATIONS VERIFIED BY THE PROJECT MANAGER PRIOR TO INSTALLATION. ALL JUNCTIONS AND INSPECTION POINTS LOCATED CLEAR OF FUTURE DRIVEWAYS

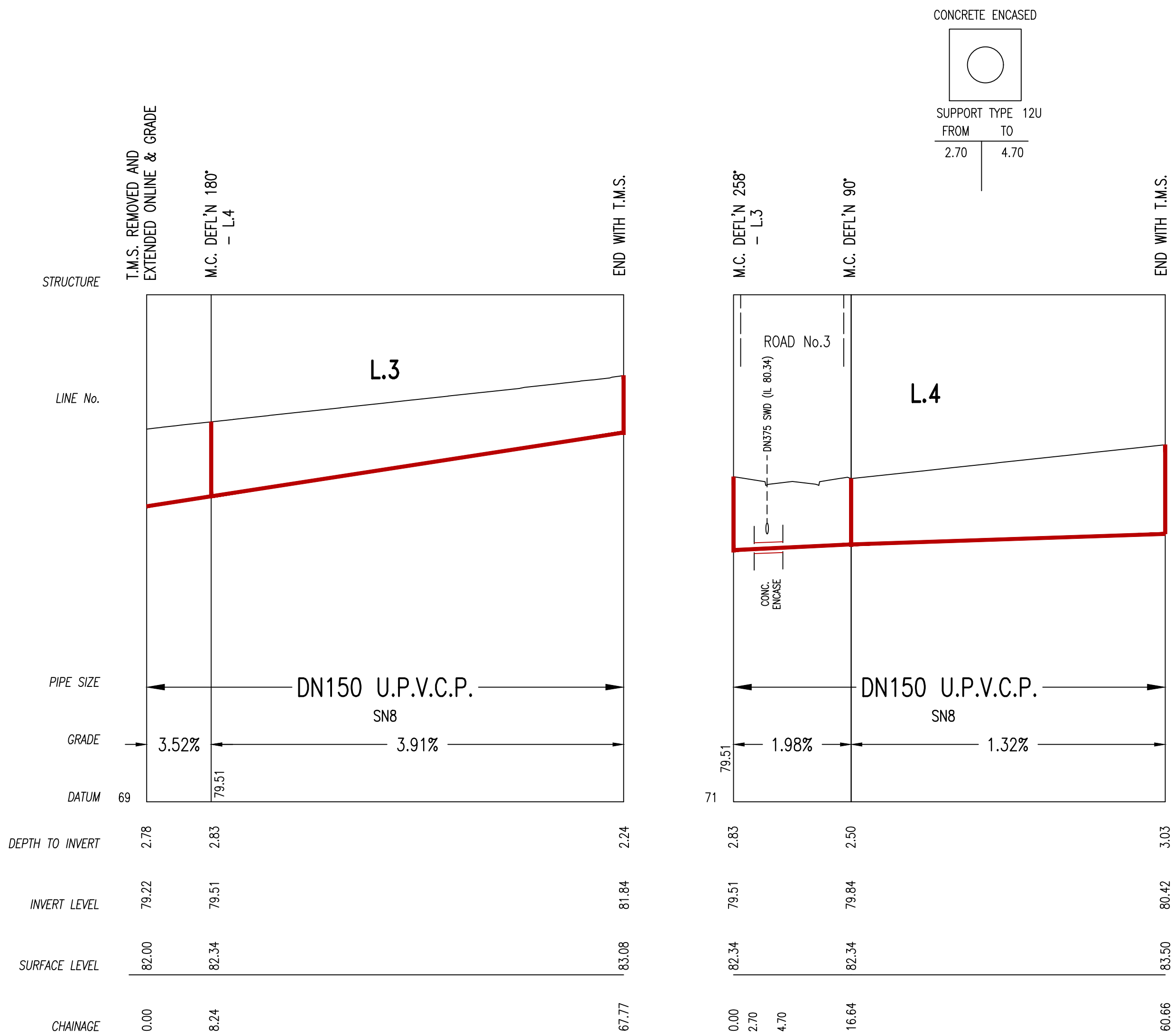
 DENOTES PROPERTY CONNECTION SEWER (REFER DTC-2120)

4	WORK AS CONSTRUCTED	R.A.	27.02.24
3	LOTS 225-231 BOUNDARY AMENDED	P.P.	15.03.23
2	LOTS 225-231 BOUNDARY AMENDED	P.P.	17.02.23
1	ISSUE FOR APPROVAL	P.P.	19.09.22
No.	AMENDMENT DESCRIPTION	BY	DATE

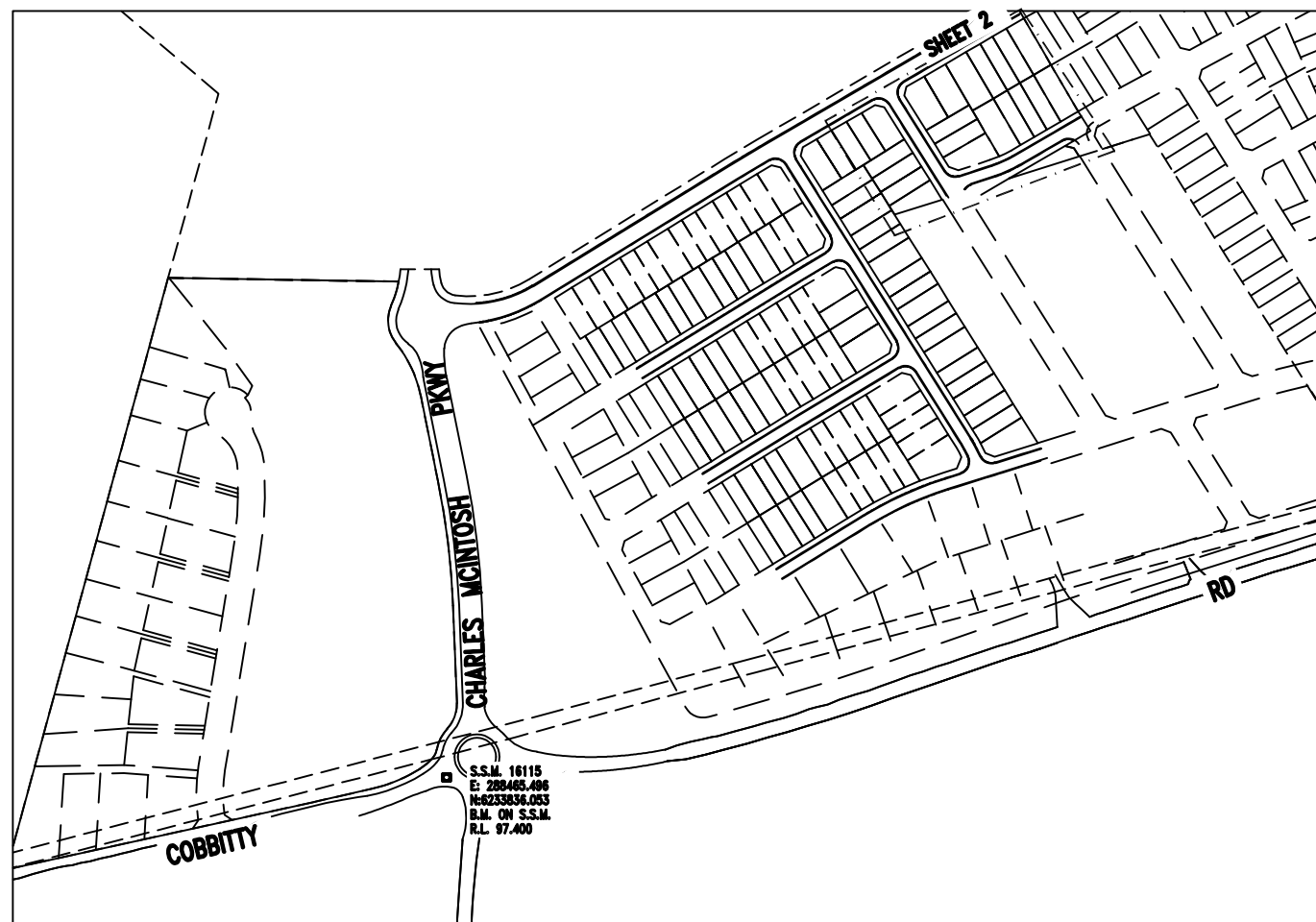
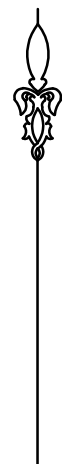
PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION		TYPE		DATE	REF.	TYPE	DATE	REF.	WORK AS CONSTRUCTED CERTIFICATION				PIPE SCHEDULE				GDA2020 AUSTRALIAN HEIGHT DATUM		NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.		 SYDNEY WATER CORPORATION					
		PROP. WATER: D1100 Water		19.09.22	201350PW				DEVELOPER	MIRVAC HOMES (NSW) PTY LTD	SIZE	TYPE	GLASS	LENGTH	PIPE JOINING METHOD / NOTES											
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. 132060996 TELECOMMUNICATIONS - NBN CO. Ph. 1800636329 TELSTRA NSW CENTRAL Ph. 1800653935 GIVING AT LEAST 48 HOURS NOTICE.		PROP. STORMWATER: SMD		19.09.22	CIVIL				WATER SERVICE CO-ORDINATOR	ORION CONSULTING ENGINEERS PTY LTD	150	U.P.V.C.	SN8	330.89		Case No. 201350WW		U.B. DIRECTORY 304, B13 (41st ED).		WEST CAMDEN SEWERAGE DRAINS TO WEST CAMDEN STP VIA SP1161 AND SP0673						
		PROP. ENERGY AUST: E		19.09.22	CIVIL				CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD																
									COMPLETED	29.01.2024																
									DESIGNER	ORION CONSULTING ENGINEERS PTY LTD																
									I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.																	
									DESIGN HEAD. . . m										NO							
									BOUNDARY TRAPS										REQUIRED.							



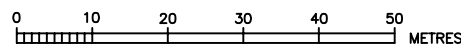
WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER	
DEVELOPER	MIRAC HOMES (NSW) PTY LTD	SYDNEY WATER CORPORATION	
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD	Case No. 201350WW SHT 2 OF 3 SHTS.	
CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD		
COMPLETED	29/01/2024		
W.A.C. PREPARED	27/02/2024		
DESIGNER	ORION CONSULTING 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	



WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER SYDNEY WATER CORPORATION	
DEVELOPER	MIRVAC HOMES (NSW) PTY LTD	Case No. 201350WW	SHT 3 OF 3 SHTS.
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD		
CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD		
COMPLETED	29.01.2024		
W.A.C. PREPARED	27.02.2024		
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	



PM & LOCALITY PLAN
(NOT TO SCALE)



NOTES:-

1. WATER SERVICING CO-ORDINATOR:
KF WILLIAMS ENVIRONMENTAL SERVICES PTY LTD
LEVEL 1, 497 PRINCIPLES 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 ARE 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 TYPE 12U (REFER TO SEW-1205-V)

5. ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
6. CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING & PROPOSED SERVICES WAS NECESSARY PRIOR TO THE COMMENCEMENT OF WORK & APPROPRIATE PROCEDURES, PRECAUTIONS AND CASE TACKLE BY THE CONSTRUCTOR WHEN WORKED IN CLOSE PROXIMITY TO SERVICES DURING CONSTRUCTION AND ANY DAMAGE TO EXISTING SERVICES WAS RECTIFIED AT THE CONSTRUCTORS EXPENSE.
7. THE NUMBER OF FIELD COMPACTION TESTS TAKEN TO SATISFY THE SEWERAGE CODE OF AUSTRALIA (CLAUSE 22.3.4.4) ARE:

PIPE EMBEDMENT ZONE: - NIL (WHEN USING APPROVED BEDDING MATERIALS)
TRENCH FILL ZONE - TRAFFICABLE: 1 PER 300mm LAYER PER 50m OF SEWER MAIN -
TOTAL No. OF TEST NIL (USING 14:1 SAND/CEMENT STABILIZER)
TRENCH FILL ZONE - NON-TRAFFICABLE: 1 PER 900mm LAYER PER 100m OF SEWER

MAIN - TOTAL No. OF TESTS: 14
M.H. & M.S. ZONE: 1 PER 1m DEPTH AT ONE LOCATION WITHIN 300mm OF EACH
M.S. & M.H. - TOTAL No. OF TESTS: 28

8. LOCATION OF SEWER LINES MARKED BY A REGISTERED LAND SURVEYOR PRIOR TO CONSTRUCTION
 9. CONTRACTOR TO NOTIFIED WSC IF THEY FOND WATER CHARGED GROUND/UNSTABLE GROUND/GROUND CONDITIONS NOT SUITABLE FOR CONSTRUCTION AND STOPPED WORK UNTIL THEY HAVE BEEN INSTRUCTED BY WSC.
 10. CONTRACTOR TO ENSURED TRENCH STABILITY, STABILITY OF PROBABLE ADJACENT SERVICES/POSSIBLE STRUCTURES WAS THE RESPONSIBILITY OF THE CONTRACTOR.
 11. INVERT LEVEL OF EXISTING SEWER AT CHOO CONFIRMED BY SURVEY PRIOR TO COMMENCEMENT OF CONSTRUCTION. WSC ADVISED.
 12. SUBSURFACE CONDITIONS, INCLUDING GROUNDWATER, CONTAMINATION, UNRECORDED BURIED MATERIAL OR OBJECTS AND ARCHAEOLOGICAL SIGNIFICANT ITEMS ENCOUNTERED DURING CONSTRUCTION, 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. 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 WAS VERIFIED BY PROJECT MANAGER PRIOR TO INSTALLATION. ALL JUNCTIONS AND INSPECTION POINTS SHALL BE LOCATED CLEAR OF FUTURE DRIVEWAYS
- ↖ DENOTES PROPERTY CONNECTION SEWER (REFER DTC-2120)
15. M.H. CONSTRUCTED IN ACCORDANCE WITH DTC-2000, DTC-2203, DTC-2220, DTC-2221 & DTC-2222.

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: OH100 Water	---	21.09.22	201352PM		
		PROP STORMWATER: SMD	---	SMD	21.09.22	CML	
		PROP ENERGY AUST: E	---	E	21.09.22	CML	
DIAL BEFORE YOU DIG							
ELECTRICITY: ENDEAVOUR ENERGY							
GAS: JEMENA GAS SOUTH							
TELECOMMUNICATIONS: NBN CO							
TELEPHONE: TELSTRA NSW CENTRAL							
GIVING AT LEAST 48 HOURS NOTICE							

WORK AS CONSTRUCTED CERTIFICATION		
DEVELOPER	MIRVAC HOMES (NSW) PTY LTD	
WATER SERVICE CO-ORDINATOR	ORION CONSULTING ENGINEERS PTY LTD	
CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD	
COMPLETED	28.01.2024	01.03.2024
DESIGNER	ORION CONSULTING ENGINEERS PTY LTD	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		

LINE	CHAINAGE	EASTING [MGA 2020]	NORTHING [MGA 2020]	TYPE	DN RISER	CLASS OF COVER	MATERIAL	COMMENTS
1	0.00	288762.9534	6234271.2043	—	—	—	—	
1	71.84	288825.0314	6234307.3617	T.M.S.	225	B	PVC-U	
2	0.00	288764.4932	6234239.0570	—	—	—	—	
2	5.65	288767.4591	6234234.3291	M.C.	600	B	PP	AWASHAFT PP 600 (ML 90° CONFIGURATION)
2	25.88	288778.2682	6234217.1461	M.H.	DN1050	B	CONCRETE	
2	31.51	288763.3933	6234281.4895	M.H.	DN1050	B	CONCRETE	
2	59.76	288810.3415	6234223.5192	M.S.	300	B	PVC-U	
2	114.70	288857.7342	6234251.2852	T.M.S.	225	B	PVC-U	
3	15.92	288791.9657	6234201.4669	T.M.S.	225	B	PVC-U	
	16.29	288753.5663	6234225.6141	M.C.	600	B	PP	AWASHAFT PP 600 (AG 270° CONFIGURATION)
4	51.51	288772.3109	6234195.8736	T.M.S.	225	B	PVC-U	

PIPE SCHEDULE					
SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTE	
225	U.P.V.C.	SN8	238.05	R.R.J.	
150	U.P.V.C.	SN8	15.92	R.R.J.	
DESIGN HEAD . . . m			NO BOUNDARY TRAPS REQUIRED.		

GDA2020
AUSTRALIAN HEIGHT DATUM

SCALES

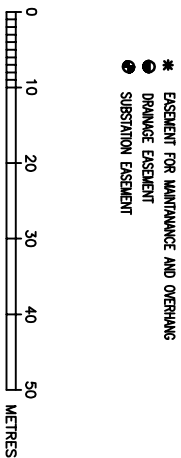
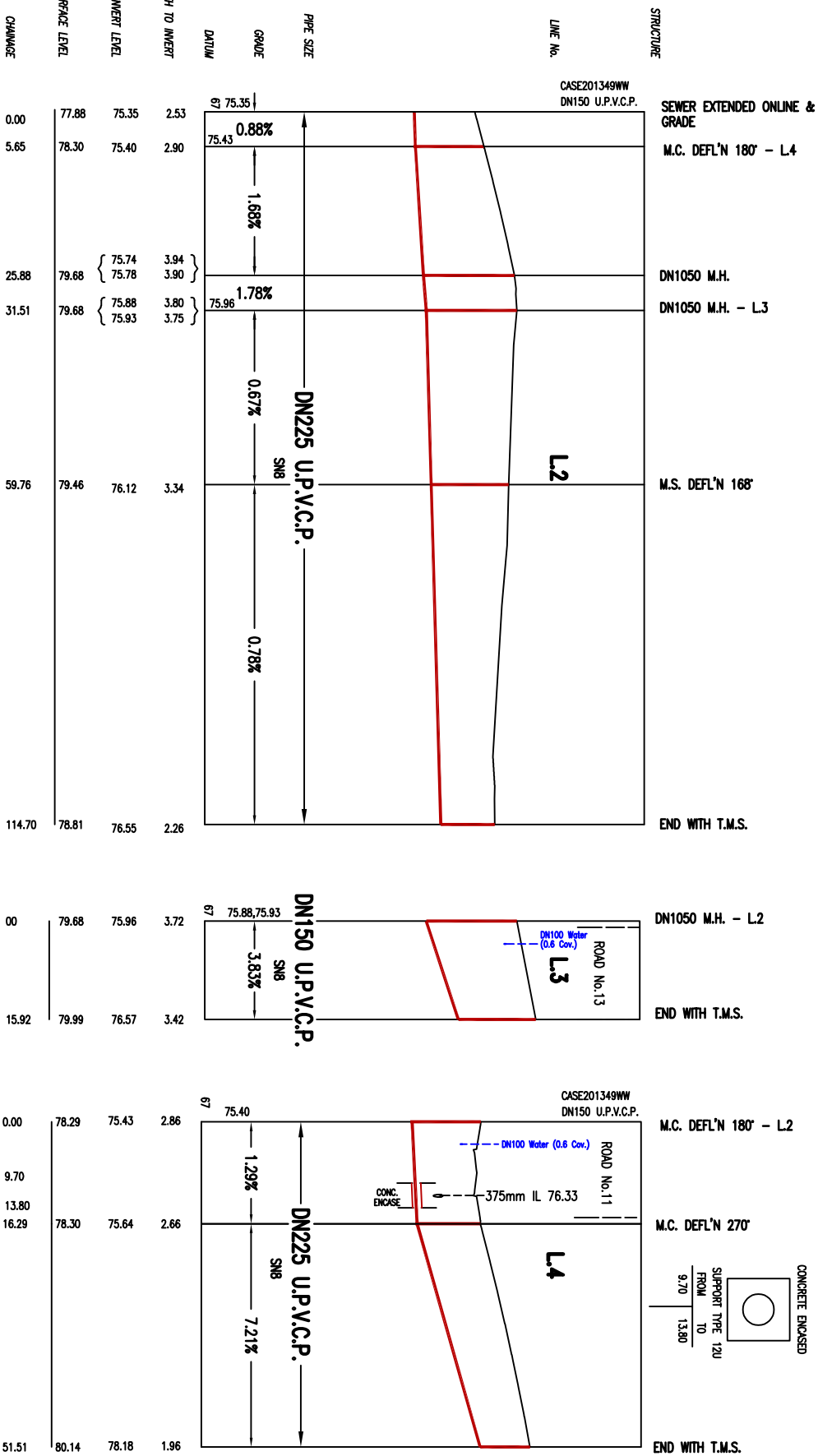
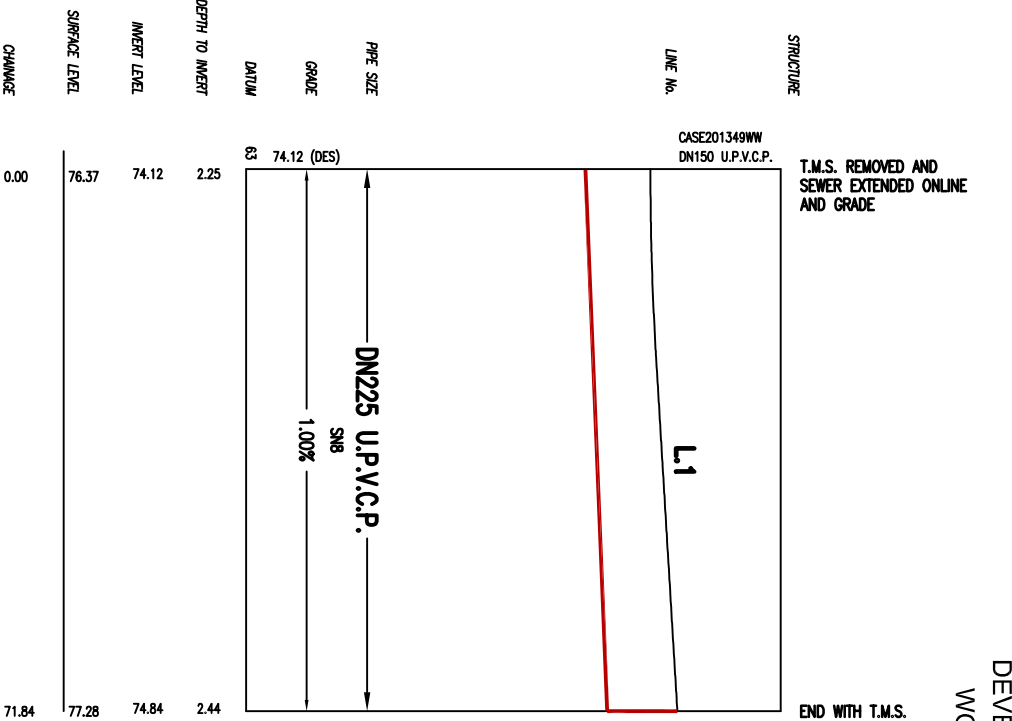
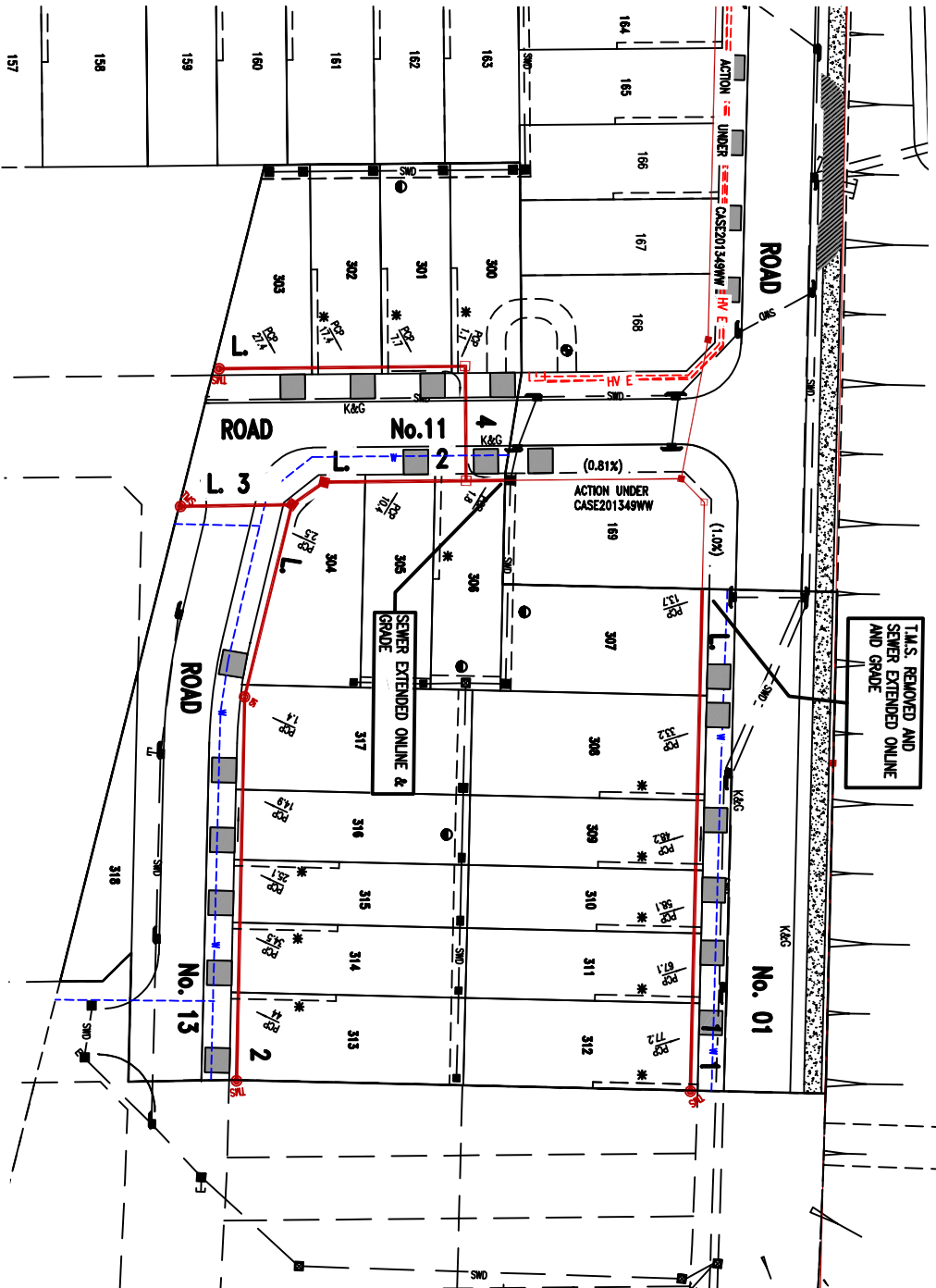
PLAN, 1:500, SECTION { HOR. : 1:500
VERT. : 1:125

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 304, B13 (41st ED)		
SHEET. 1. . OF. 3.	File No.	EN304393 S3 Sdg.

	SYDNEY WATER CORPORATION
Case No. 201352WW	
WEST CAMDEN SEWERAGE DRAINS TO WEST CAMDEN STP VIA SP1161 AND SP0673	



- * ESSENTIAL FOR MAINTENANCE AND OVERHANG
- DRAINAGE ESSENTIAL
- SUBSTATION ESSENTIAL

WORK AS CONSTRUCTED CERTIFICATION

DESIGNER

W.A.C. PREPARED

COMPLETED

CONSTRUCTOR

W.S.C.

DEVELOPER

DN201349WW

DN201349WW

DN201349WW

DN201349WW

DN201349WW

DN201349WW

DN201349WW

DN201349WW

DN201349WW

DN201349WW

DN201349WW

DN201349WW

SYDNEY WATER CORPORATION

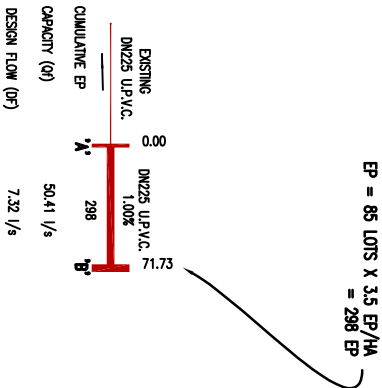
Case No. 201352WW

SHT 2 OF 3 SHTS.

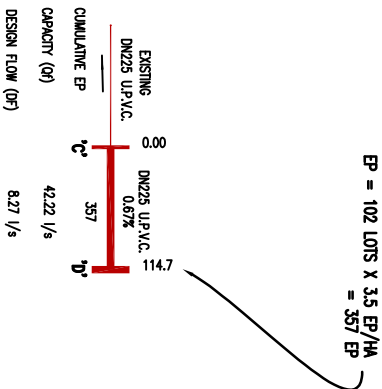
FOR DETAILS OF SERVICES SEE SHEET 1



PROPOSED SEWER FLOW AND CAPACITY
(NOT TO SCALE)



FLOW DIAGRAM – LINE 1
(NOT TO SCALE)



FLOW DIAGRAM – LINE 2
(NOT TO SCALE)

SEWERAGE FLOW SCHEDULE (SUMMARY) : Updated Jan 2016													
Compiled 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) 0									
e-Developer No. CASE201352		Description: Sewer extension - L.1		00-Jan-000									
SUMMARY													
SECTION	CHAINAGE	TOTAL AREA	TOTAL Grav	TOTAL Grav + Pump	PIPE SIZE (DN)	PIPE SIZE (ID)	PIPE GRADE	DESIGN FLOW (QF)	QF Actual	SELF CLEANSING	SLIME CONTROL	Capacity	
A-B	0+1173 (L.1)	3.75	288	288	225 mm	233.6 mm	1	7.32 L/s	50.41 L/s	2.44	Self Cleaning OK	NA	Deficit OK

SEWERAGE FLOW SCHEDULE (SUMMARY) : Updated Jan 2016													
Compiled 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) 0									
e-Developer No. CASE201352		Description: Sewer extension - L.2		00-Jan-000									
SUMMARY													
SECTION	CHAINAGE	TOTAL AREA	TOTAL Grav	TOTAL Grav + Pump	PIPE SIZE (DN)	PIPE SIZE (ID)	PIPE GRADE	DESIGN FLOW (QF)	QF Actual	SELF CLEANSING	SLIME CONTROL	Capacity	
C-D	0+1147 (L.2)	3.82	357	357	225 mm	233.6 mm	0.67	8.27 L/s	41.22 L/s	2.76	Self Cleaning OK	NA	Deficit OK

WORK AS CONSTRUCTED CERTIFICATION

SYDNEY WATER CORPORATION

WATER

Case No. 201349WW

SHT 3 OF 3 SHTS.

DEVELOPER
W.S.C.
CONSTRUCTOR
COMPLETED
W.A.C. PREPARED
DESIGNER

SYDNEY WATER CORPORATION

09/03/2024

09/03/2024

09/03/2024

09/03/2024

FOR DETAILS OF SERVICES SEE SHEET 1

SYDNEY WATER CORPORATION