
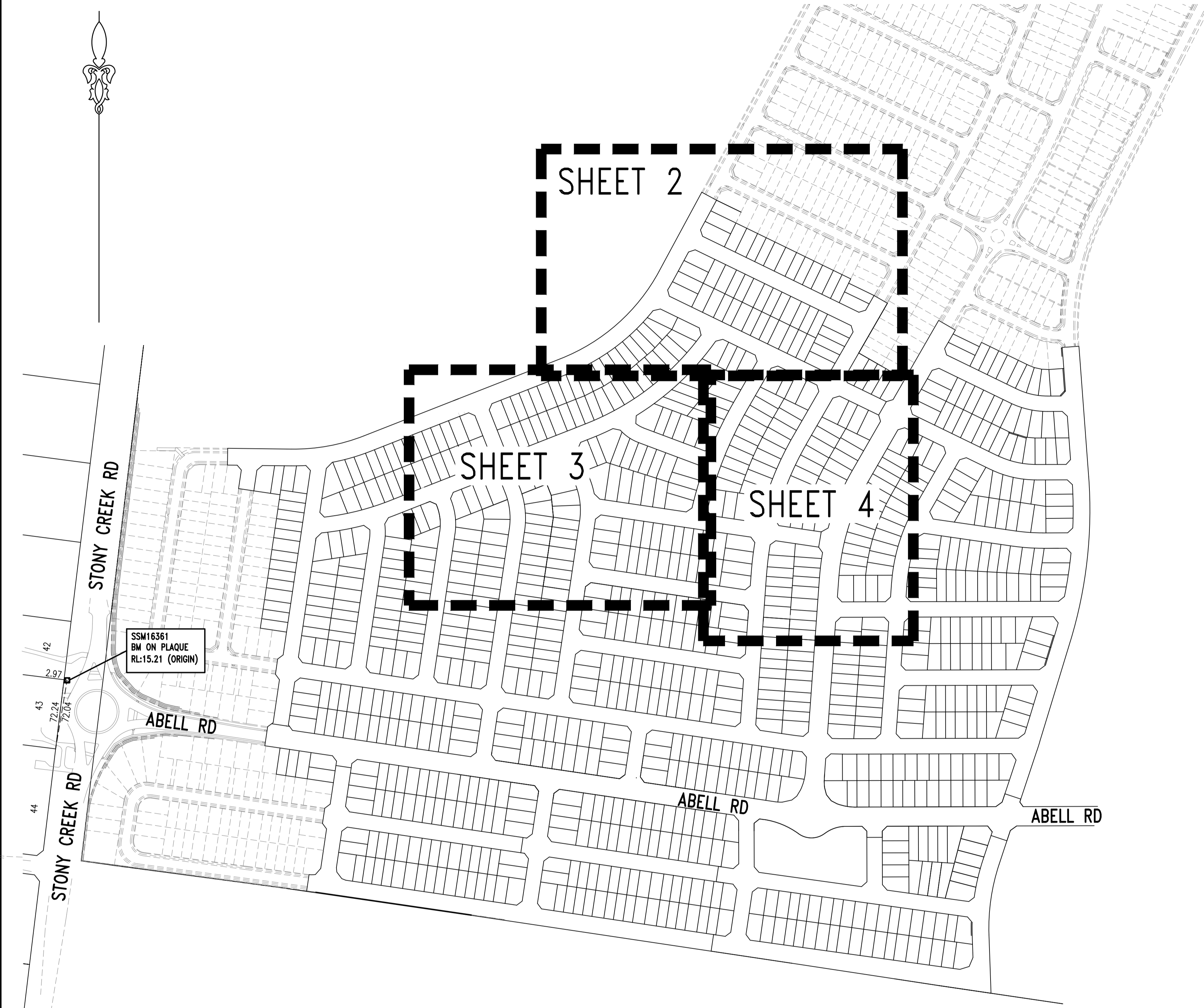


0 10 20 30 40 50 METRES  
M.G.A. ZONE 56 M.G.A. DATUM: GDA2020

- DESIGNER AND WATER SERVICING COORDINATOR:  
QALCHEK PTY LTD (CERTIFIED No.289)  
UNIT 2, LEVEL 1, 15-17 DAVID ROAD, EMU PLAINS NSW 2750  
PH. No. (02) 4722 8181  
  
FOR:  
WOORONG PARK PTY LTD  
c/o J WYNDHAM PRINCE  
580 HIGH STREET, PENRITH, NSW 2750  
PH. 02 4720 3300
- THE WORKS AND MATERIALS ARE IN ACCORDANCE WITH THE SEWERAGE CODE OF AUSTRALIA WSA 02-2002-2.2 SYDNEY WATER EDITION VERSION 4 (2017) INCLUDING THE SYDNEY WATER SUPPLEMENT & APPENDICES AS WELL AS THE SYDNEY WATER TECHNICAL SPECIFICATION - CIVIL VERSION 9.0.
- ALL STRUCTURES WERE CONSTRUCTED TO FINISHED SURFACE LEVELS.  
ALL LEVELS REFER TO FINISHED SURFACE LEVEL.
- ALL BUILDING LAYOUTS, FINISHED SURFACE LEVELS, STORMWATER INFORMATION, AND GENERAL CIVIL ENGINEERING DETAILS TAKEN FROM:  
CIVIL BASEPLAN: 998512-P7B-BASE FOR SERVICE DESIGN.dwg (SUPPLIED 26.03.2021 BY JWP)  
SURFACE INFORMATION: 9985 DESIGN PRECICT 7 TRIANGLES 210513.dwg (SUPPLIED 20.07.2021 BY JWP)  
SWD INFORMATION SUBDIVISION: Drainage LS SYSTEM A & B.dwg (SUPPLIED 20.07.2021 BY JWP)
- THE MINIMUM NUMBER OF FIELD COMPACTION TESTS CONDUCTED TO SATISFY THE SEWERAGE CODE OF AUSTRALIA ARE:  
PIPE EMBEDMENT ZONE: 0 TESTS CONDUCTED (LETTER PROVIDED)  
TRENCH FILL ZONE (NON TRAFFICABLE): 106 TESTS CONDUCTED  
TRENCH FILL ZONE (TRAFFICABLE): 0 TESTS CONDUCTED (LETTER PROVIDED)  
TRENCH FILL ZONE (MAINTENANCE STRUCTURES): 251 TESTS CONDUCTED  
TRENCH FILL ZONE - TOTAL: 357 TESTS CONDUCTED
- ALL EXCAVATION, SHORING EXCAVATION AND STABILITY OF ADJACENT STRUCTURES/SERVICES/DWELLINGS WAS THE RESPONSIBILITY OF THE CONSTRUCTOR.
- ALL PCS CONNECTIONS TO I.S. ARE AT 0.7m & 45° TO MAIN UNLESS OTHERWISE INDICATED.  
↘ DENOTES STANDARD PCS CONNECTION (REFER DTC-2120 ISSUE A DATE 18.03.15)
- THE WORKS WERE CONSTRUCTED IN ACCORDANCE WITH SYDNEY WATER'S DEEMED TO COMPLY DRAWINGS:  
  
FOR ALL MH'S  
DTC-2000 (ISSUE C 18.03.15),  
DTC-2203 (ISSUE B 18.03.15),  
DTC-2220 (ISSUE D 18.03.15),  
DTC-2221 (ISSUE B 01.03.13),  
DTC-2222 (ISSUE C 18.03.15)
- PIPES CONCRETE ENCASED SHOWN ACCORDINGLY:  REFER TO SEW-1205-V
- W.A.C. PREPARED FROM INFORMATION SUPPLIED (IN PART BY QALCHEK PTY LTD) & BY DARACON.



LOCALITY PLAN & BENCHMARK DIAGRAM

(NOT TO SCALE)

1	WORK AS CONSTRUCTED	JV	15.02.23
C	EX MH LID LEVEL ADJUSTED	TT	30.08.22
B	ISSUE FOR APPROVAL	FJ	09.09.21
A	ISSUE FOR CLIENT REVIEW	FJ	03.05.21
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 ..... Ph. ....  
GAS ..... Ph. ....  
TELECOMMUNICATIONS ..... Ph. ....  
SYDNEY WATER ..... Ph. 132 092  
GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES			
TYPE	DATE	REF.	
WATER: DN100 Water	09.09.21	DESIGN	
NEW WATER: DN100 Water	09.09.21	DESIGN	
STORMWATER: SWD	20.07.21	ENG.PLAN	
NEW STORMWATER: SWD	20.07.21	ENG.PLAN	
SSM 16361 (ORIGIN)	05.05.21	SCIMS	

WORK AS CONSTRUCTED CERTIFICATION	
DEVELOPER	WOORONG PARK PTY LTD
WATER SERVICE CO-ORDINATOR	QALCHEK PTY LTD
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD
COMPLETED	14.02.2023
DESIGNER	QALCHEK 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	165.79	RRJ
150	U.P.V.C.	SN8	2676.26	RRJ
100	U.P.V.C.	SN10	299.0	SWJ

DESIGN HEAD: . . . m

NO BOUNDARY TRAPS REQUIRED.

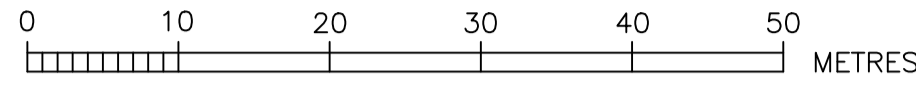
AUSTRALIAN HEIGHT DATUM	
SCALES	
PLAN . 1:500	SECTION { HOR. . 1:500 VERT. . 1:125
CROSS SECTIONS . . . . . NATURAL	
LENGTHS, DEPTHS & LEVELS ARE IN METRES.	

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 . . . MAP126/B13 45th Edition . .	
SHEET . 1 . OF . 11 .	File No. N/A

**Sydney WATER** SYDNEY WATER CORPORATION

Case No. 190189WW

**BLACKTOWN SEWERAGE**  
DRAINS TO  
RICHMOND ROAD CARRIER VIA SP1160  
RIVERSTONE S.T. 0042



DRAINAGE BASIN  
876

MH WITH DN225 INLET(NE)  
& DN150 INLET(SE)  
DTC-2203  
CLASS D LID

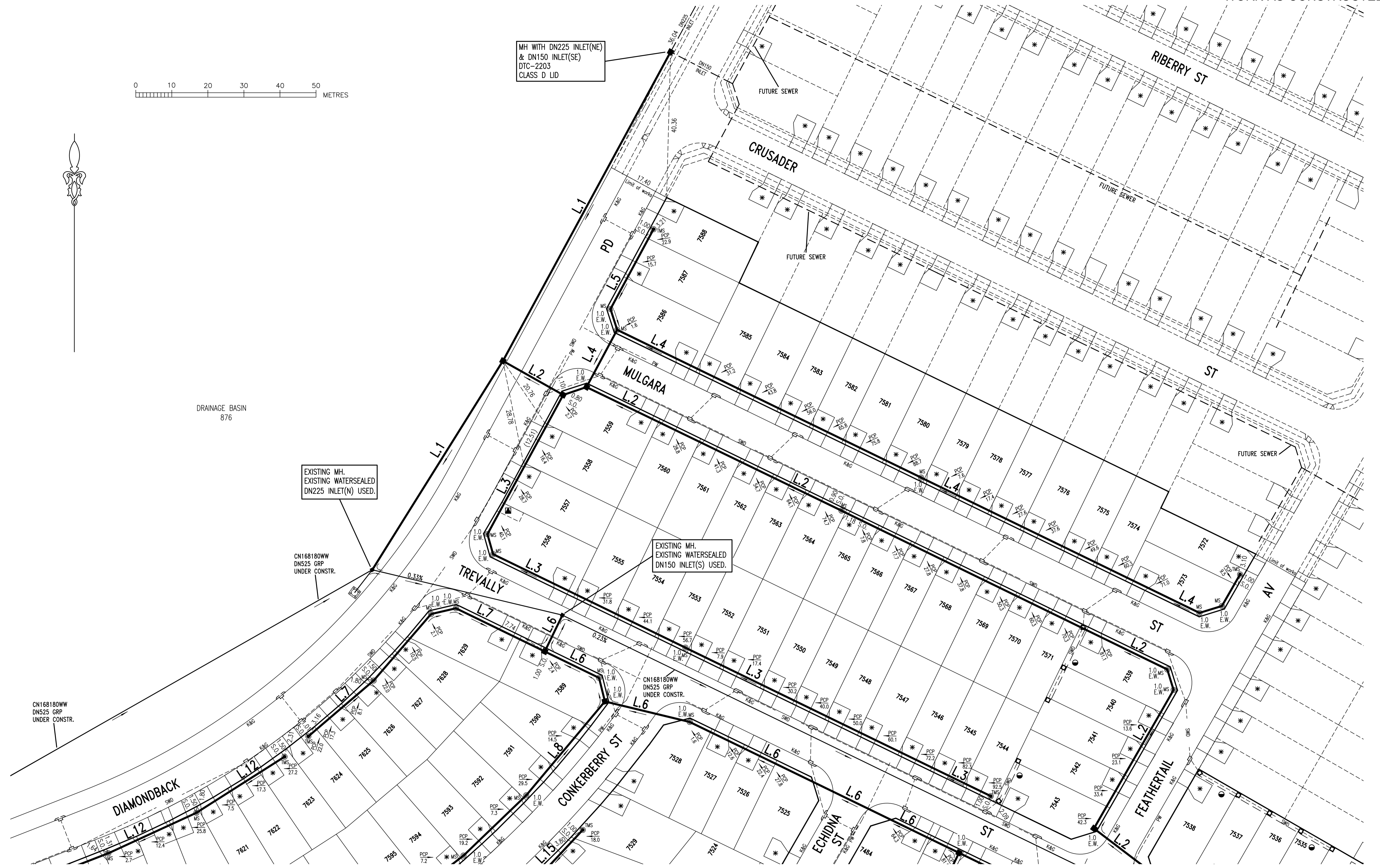
EXISTING MH.  
EXISTING WATERSEALED  
DN225 INLET(N) USED.

EXISTING MH.  
EXISTING WATERSEALED  
DN150 INLET(S) USED.

CN168180WW  
DN525 GRP  
UNDER CONSTR.

CN168180WW  
DN525 GRP  
UNDER CONSTR.

CN168180WW  
DN525 GRP  
UNDER CONSTR.



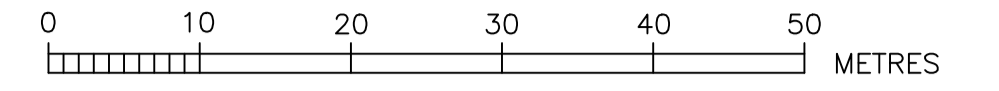
CONTINUED ON SHEET 3

CONTINUED ON SHEET 4

No.	AMENDMENT DESCRIPTION	BY	DATE
1	WORK AS CONSTRUCTED	JV	15.02.23
C	EX MH LID LEVEL ADJUSTED	TT	30.08.22
B	ISSUE FOR APPROVAL	FJ	09.09.21
A	ISSUE FOR CLIENT REVIEW	FJ	03.05.21

- EASEMENT FOR DRAINAGE 1.5 WIDE
- \* DRIVEWAY
- SUBSTATION

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	<b>Sydney WATER</b>	Case No. 190189WW SHT 2 OF 11 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	COMPLETED 14.02.2023	
W.A.C. PREPARED 15.02.2023		DESIGNER QALCHEK PTY LTD	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS			
FOR DETAILS OF SERVICES SEE SHEET 1		ISSUED: 15.02.2023	



CONTINUED ON SHEET 4

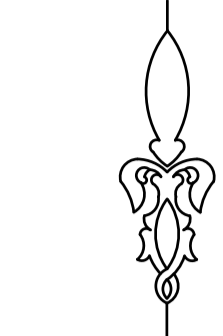
No.	AMENDMENT DESCRIPTION	BY	DATE
1	WORK AS CONSTRUCTED	JV	15.02.23
B	ISSUE FOR APPROVAL	FJ	09.09.21
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- EASEMENT FOR DRAINAGE 1.5 WIDE
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WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	 <b>Sydney WATER</b>	
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD		
COMPLETED	14.02.2023		
W.A.C. PREPARED	15.02.2023	Case No. 190189WW	SHT 3 OF 11 SHTS.
DESIGNER	QALCHEK 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	

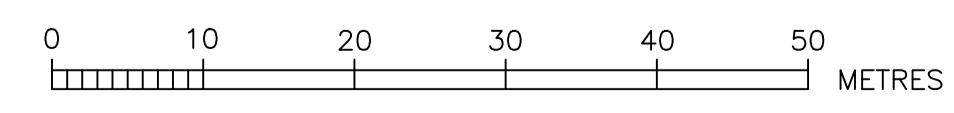


LINE No.	CHAINAGE	TYPE (MH/MS/MC)	DN RISER	CLASS OF COVER	MATERIAL (PVC-U, PE, PP, GRP, CAST IN SITU CONC, PRE-CAST CONC, OTHER - SPECIFY)	COMMENTS (BRAND/DTG No/ISSUE, DATE/NA, OTHER AS REQUIRED)
1	68.31 165.79	MH MH	1050 1050	D D	IN-SITU CONCRETE IN-SITU CONCRETE	DTC-2203 DTC-2203
2	19.20 26.01 104.59 205.12 211.07 255.38 277.92 318.17	MH MH MS MS MS MH MS TMS	1050 1050 225 225 225 1050 225 225	D D D D D D D D	IN-SITU CONCRETE IN-SITU CONCRETE AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 IN-SITU CONCRETE AS PER WSA-137 AS PER WSA-137	DTC-2203 DTC-2203 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 DTC-2203 AS PER WSA-137 AS PER WSA-137
3	43.96 49.73 109.02 203.18	MS MS MS TMS	225 225 225 225	D D D D	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137
4	18.01 111.72 197.56 203.89 213.96	MS MS MS MS TMS	225 225 225 225 225	D D D D D	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137
5	6.07 31.21	MS TMS	225 225	D D	AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 AS PER WSA-137
6	11.20 27.94 34.68 58.88 141.92 166.69 189.02 195.63 217.17 241.17 245.39 278.42 300.23 319.09	MH MS MH MS MH MS MH MS MH MS MS MS MS TMS	1050 225 1050 225 1050 225 1050 225 1050 225 225 225 225 225	D D D D D D D D D B B B B B	IN-SITU CONCRETE AS PER WSA-137 IN-SITU CONCRETE AS PER WSA-137 IN-SITU CONCRETE AS PER WSA-137 IN-SITU CONCRETE AS PER WSA-137 IN-SITU CONCRETE AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137	DTC-2203 AS PER WSA-137 DTC-2203 AS PER WSA-137 DTC-2203 AS PER WSA-137 DTC-2203 AS PER WSA-137 DTC-2203 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137
7	27.39 34.47 58.85 82.67	MS MS MS TMS	225 225 225 225	D D D D	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137
8	33.96 58.08 91.35	MS MS TMS	225 225 225	D D D	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137
9	23.84 60.10 81.90 103.73 124.05	MS MS MS MS TMS	225 225 225 225 225	B B B B B	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137
10	54.48 78.22 116.17 139.59 145.42 184.65	MS MS MS MS MS TMS	225 225 225 225 225 225	D D D D D D	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137
11	20.45	TMS	225	D	AS PER WSA-137	AS PER WSA-137
12	83.09 109.97 138.96	MS MS TMS	225 225 225	D D D	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137
13	42.01 59.62 81.35 88.88 164.59 170.94 200.70 224.30 241.59	MS MH MS MS MS MS MS MS TMS	225 1050 300 225 225 225 225 225 225	D D D D D D D D D	AS PER WSA-137 IN-SITU CONCRETE AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 DTC-2203 AS PER WSA-137 CONNECTION TO RISER AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137
14	9.66	TMS	225	D	AS PER WSA-137	AS PER WSA-137
15	21.14 58.56 76.97	MS MS TMS	225 225 225	D D D	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137
16	37.31 46.31 66.52 111.12 132.46 138.81 154.33 172.25 212.16	MS MS MS MS MS MS MH MS TMS	225 225 225 225 225 225 1050 225 225	D D D D D D D D D	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 IN-SITU CONCRETE AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 AS PER WSA-137 DTC-2203 AS PER WSA-137 AS PER WSA-137
17	18.57	TMS	225	D	AS PER WSA-137	AS PER WSA-137
18	23.97	TMS	225	D	AS PER WSA-137	AS PER WSA-137
19	4.12 67.26	MS TMS	225 225	D D	AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 AS PER WSA-137
20	23.00 28.85 139.00 154.95	MS MS MH TMS	225 225 1050 225	B B D D	AS PER WSA-137 AS PER WSA-137 IN-SITU CONCRETE AS PER WSA-137	AS PER WSA-137 AS PER WSA-137 DTC-2203 AS PER WSA-137
21	14.06	TMS	225	B	AS PER WSA-137	AS PER WSA-137
22	68.00	TMS	225	B	AS PER WSA-137	AS PER WSA-137
23	6.24 44.83	MS TMS	225 225	D D	AS PER WSA-137 AS PER WSA-137	AS PER WSA-137 AS PER WSA-137
24	16.50	TMS	225	D	AS PER WSA-137	AS PER WSA-137



- EASEMENT FOR DRAINAGE 1.5 WIDE
- \* DRIVEWAY
- SUBSTATION

1	WORK AS CONSTRUCTED	JV	15.02.23
C	EX MH LID LEVEL ADJUSTED	TT	30.08.22
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**WORK AS CONSTRUCTED CERTIFICATION**

DEVELOPER: WOORONG PARK PTY LTD  
 W.S.C.: QALCHEK PTY LTD  
 CONSTRUCTOR: C.J. DOYLE CONTRACTING PTY LTD  
 COMPLETED: 14.02.2023  
 W.A.C. PREPARED: 15.02.2023  
 DESIGNER: QALCHEK PTY LTD

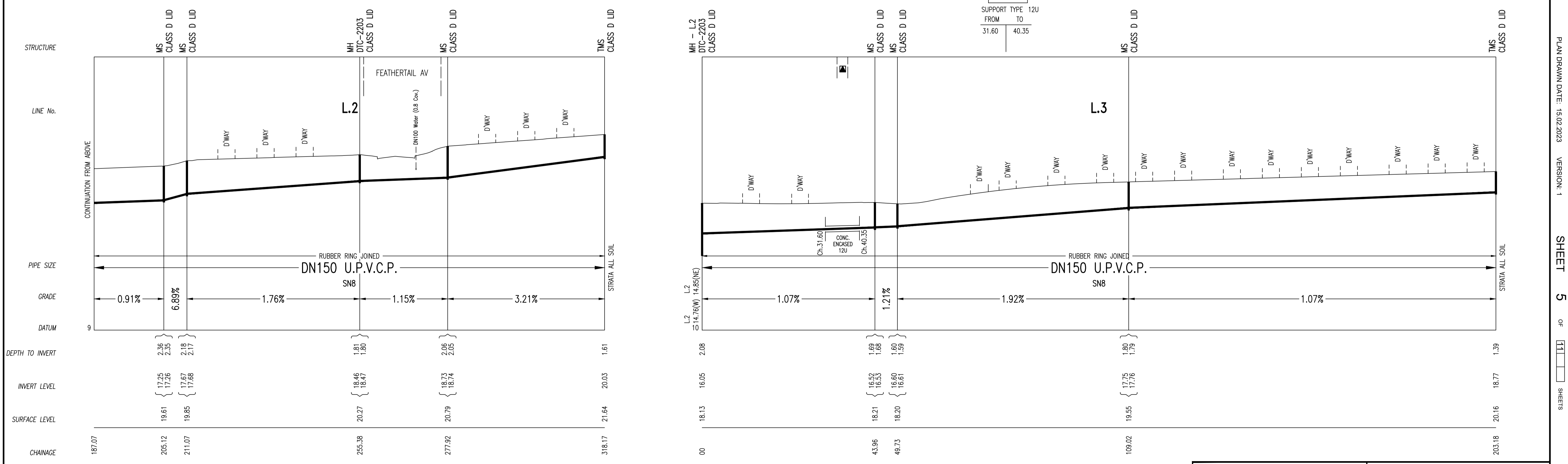
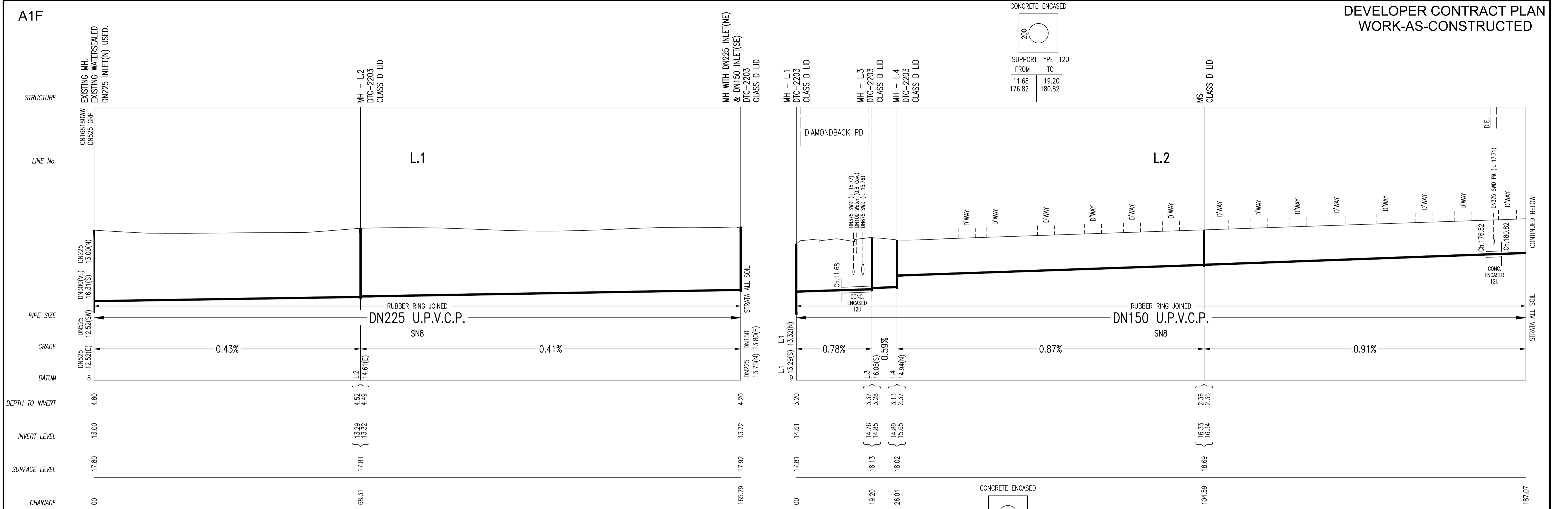
**Sydney WATER**  
 SYDNEY WATER CORPORATION  
 Case No. 190189WW SHT 4 OF 11 SHTS.

FOR DETAILS OF SERVICES SEE SHEET 1

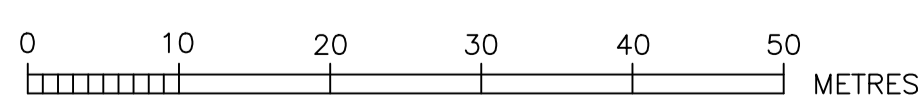
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PLAN DRAWN DATE: 15.02.2023 VERSION: 1 SHEET 4 OF 11 SHEETS

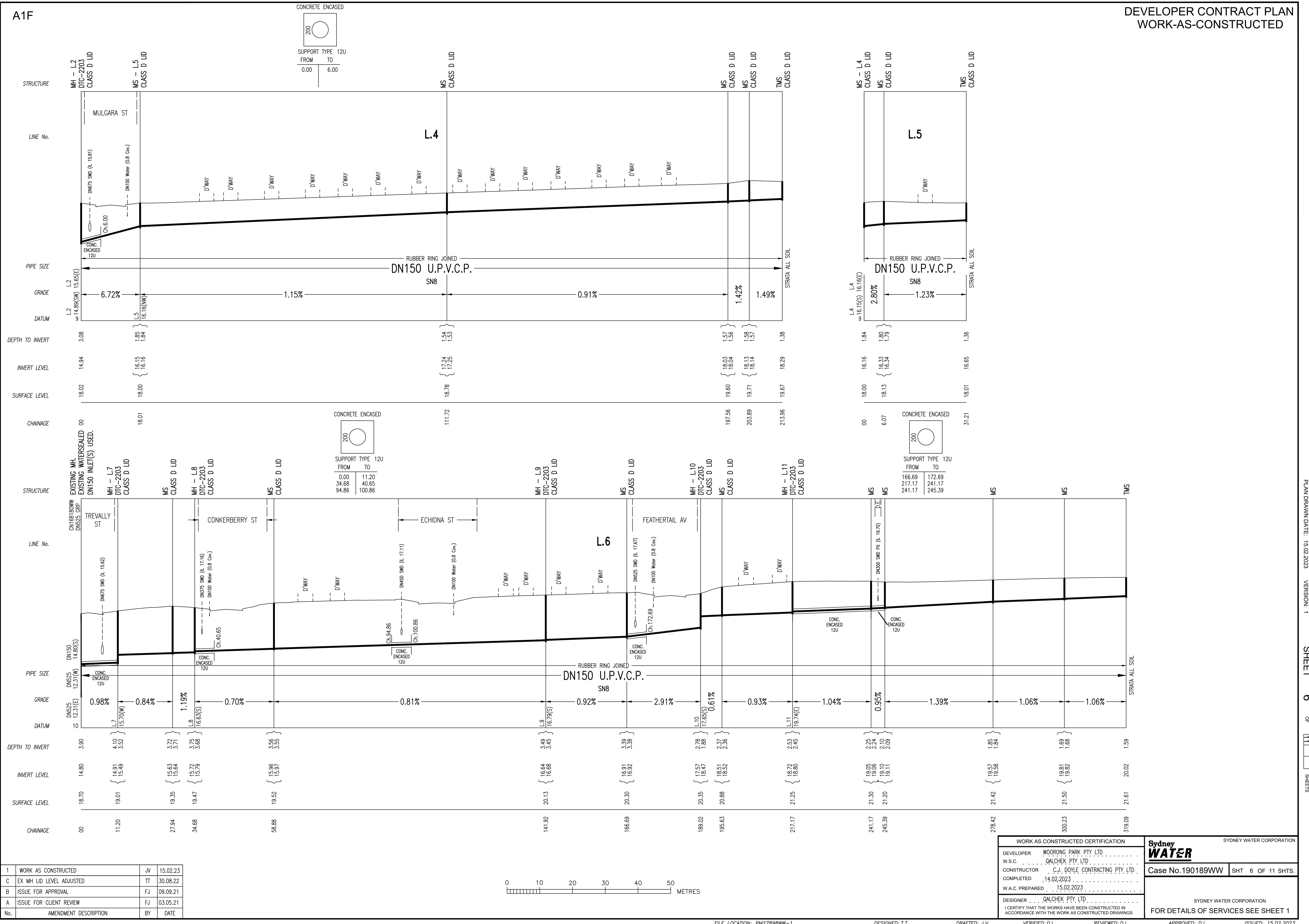


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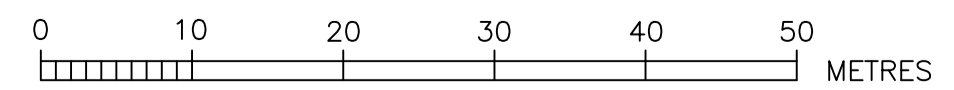


▣ SUBSTATION

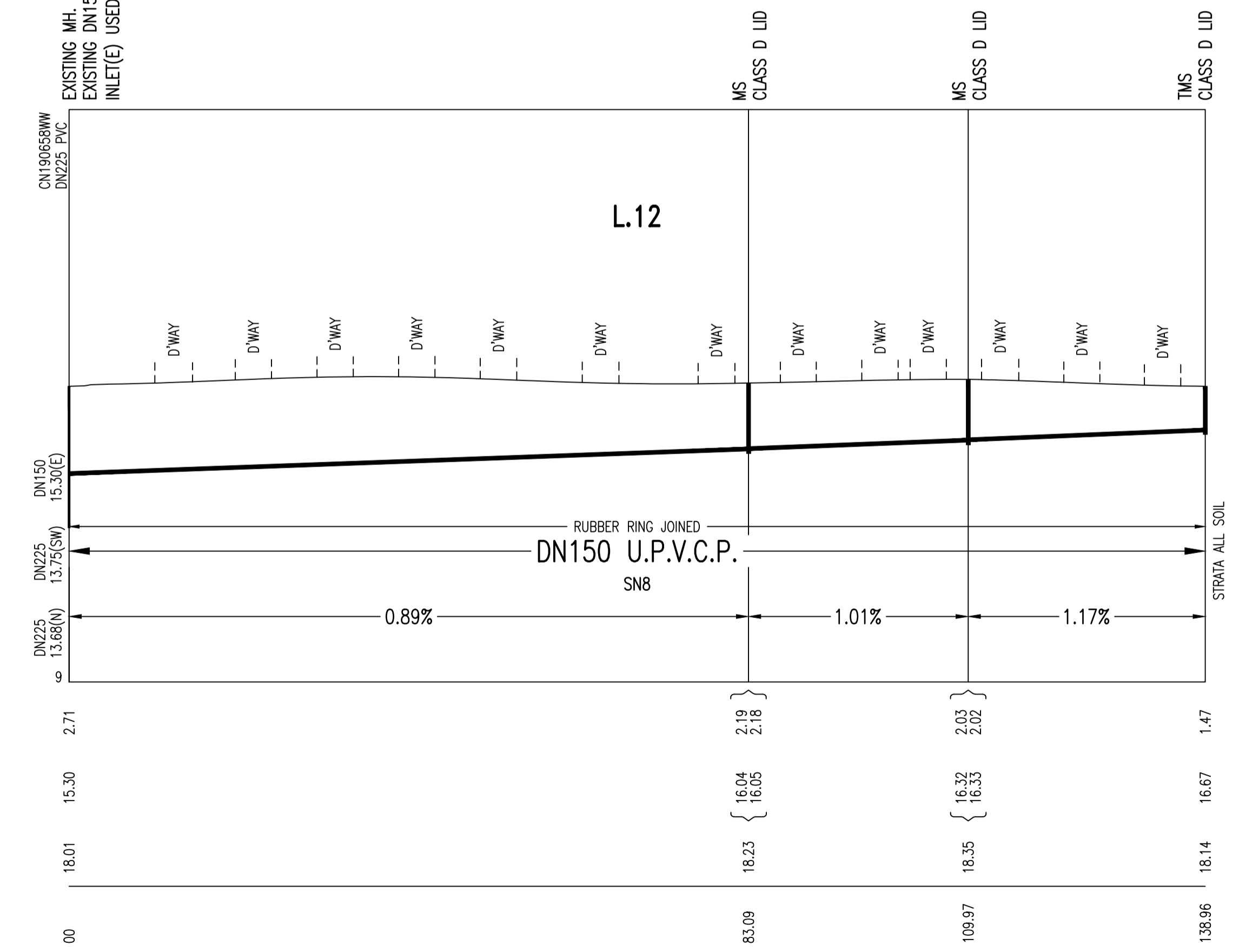
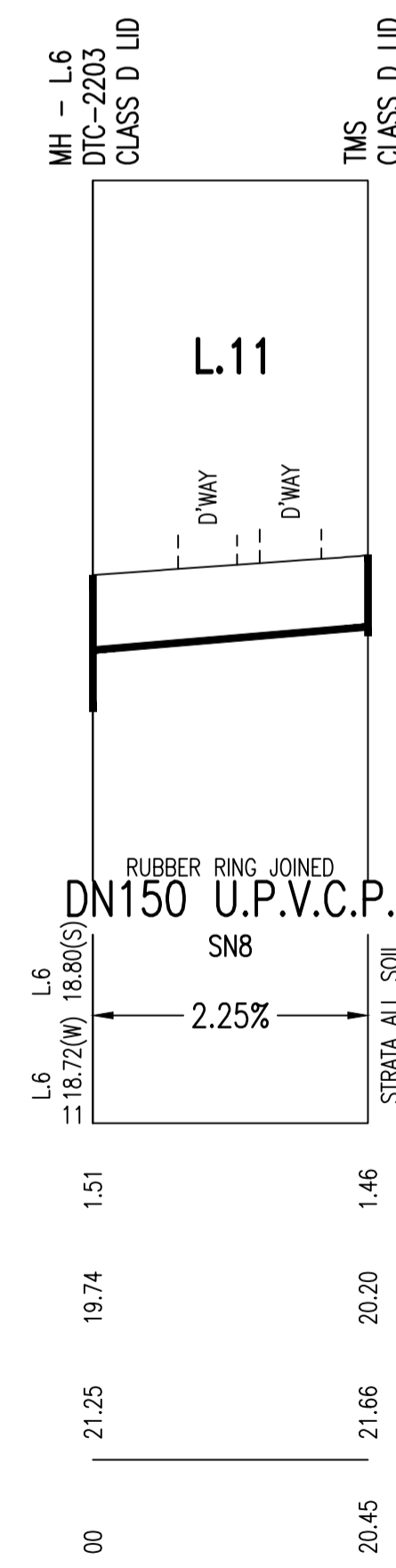
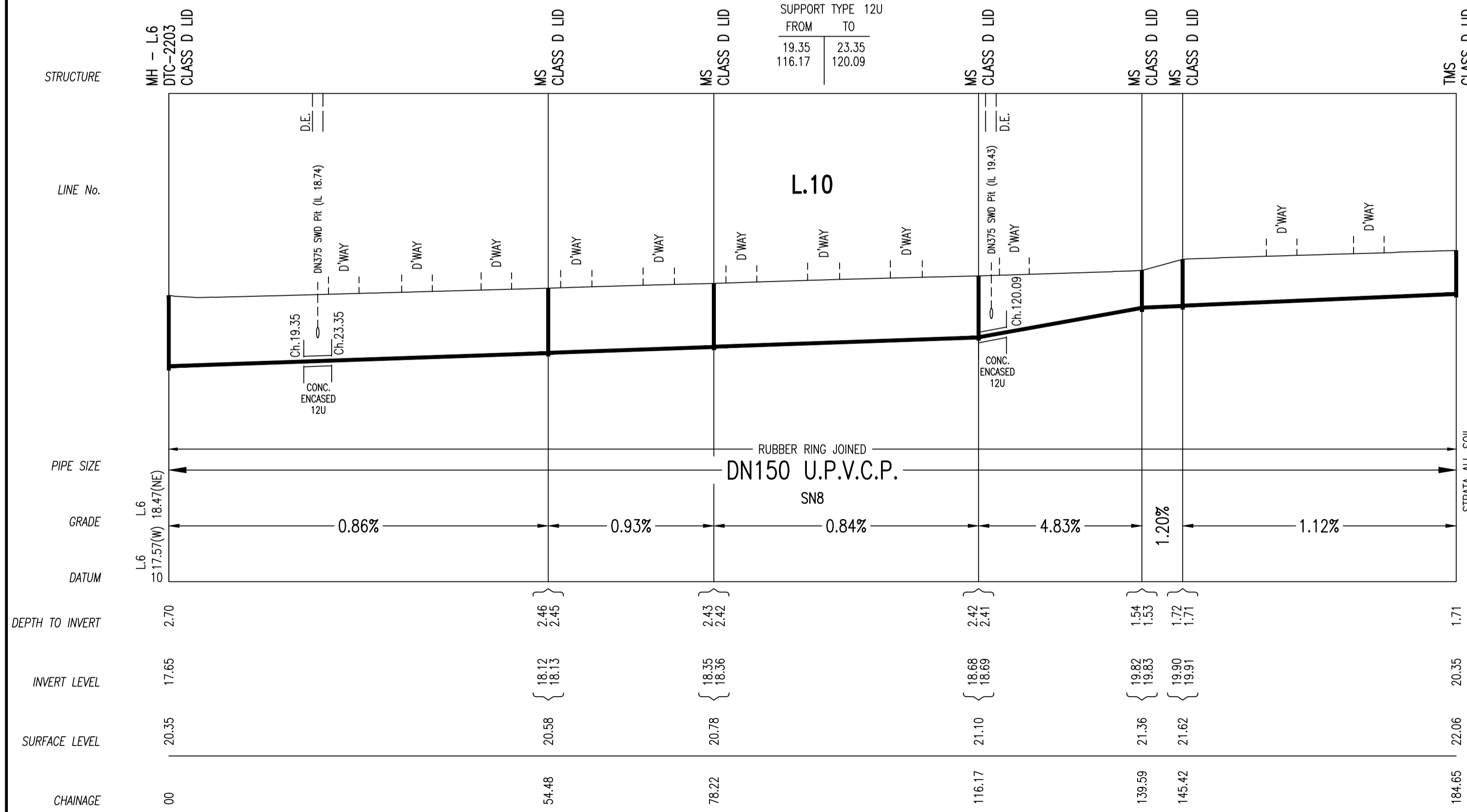
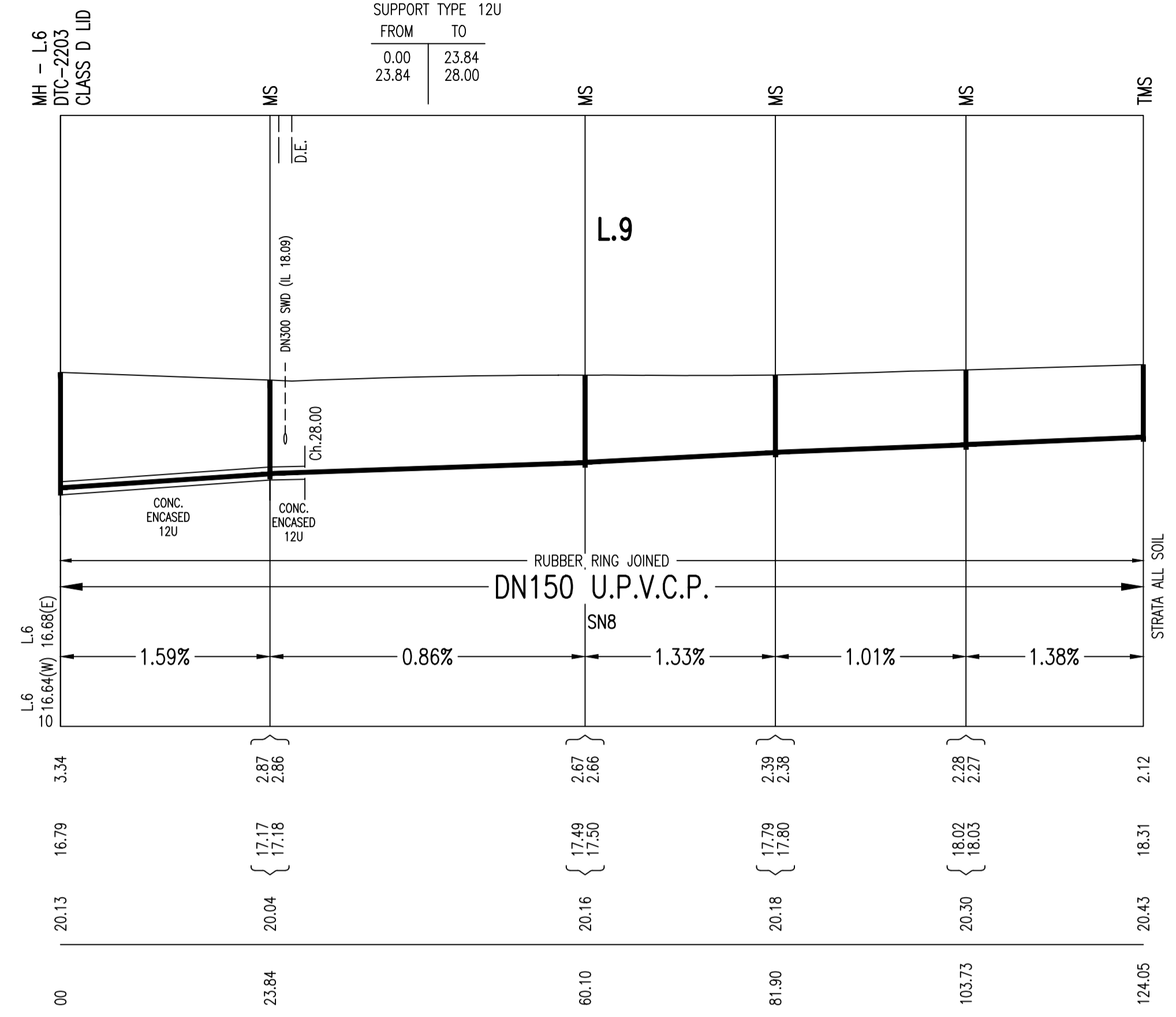
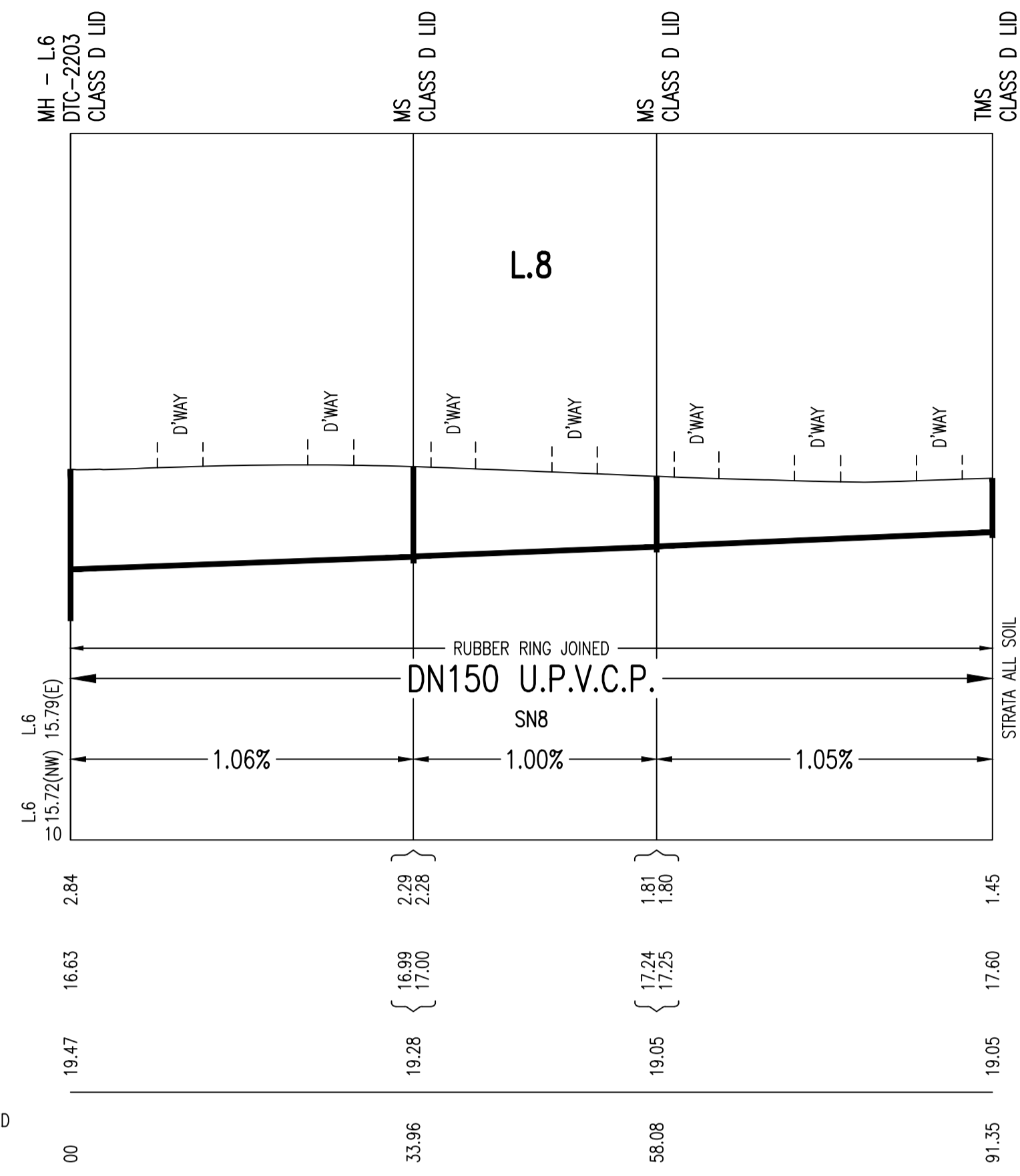
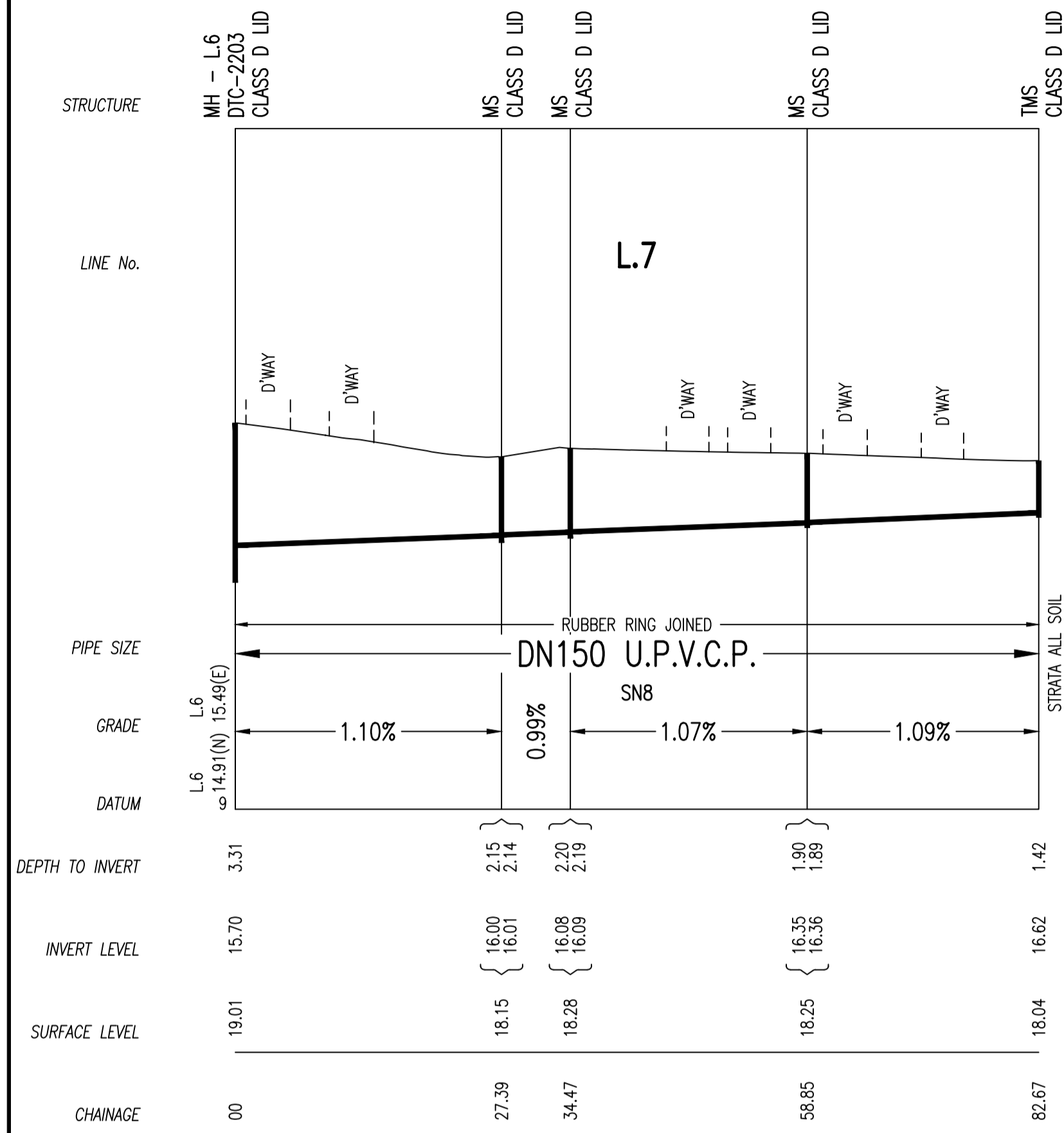
WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	<b>Sydney WATER</b>	Case No.190189WW SHT 5 OF 11 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	FOR DETAILS OF SERVICES SEE SHEET 1	
COMPLETED	14.02.2023		
W.A.C. PREPARED	15.02.2023		
DESIGNER	QALCHEK 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	



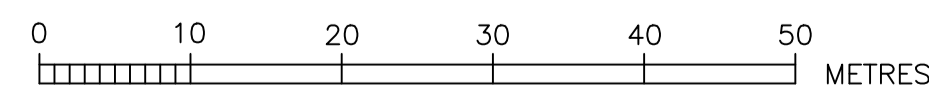
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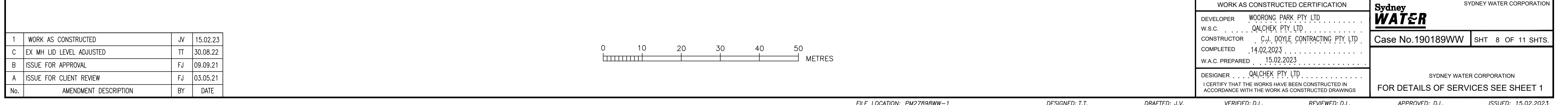
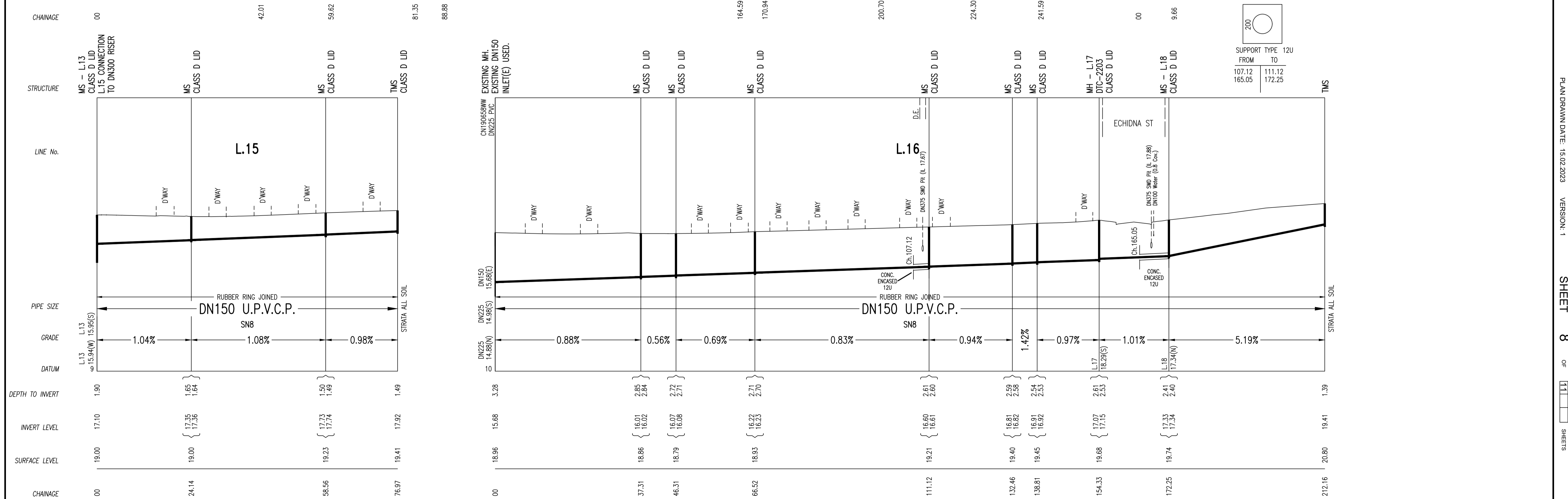
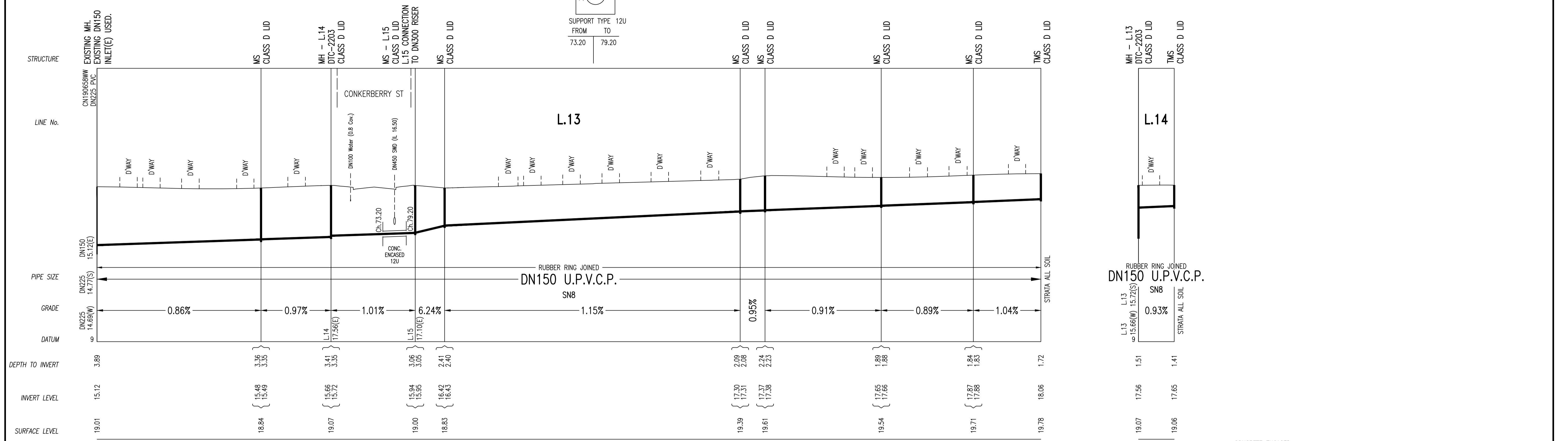
WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD		
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD		
COMPLETED	14.02.2023		
W.A.C. PREPARED	15.02.2023	Case No.190189WW	SHT 6 OF 11 SHTS.
DESIGNER	QALCHEK PTY LTD	SYDNEY WATER CORPORATION	
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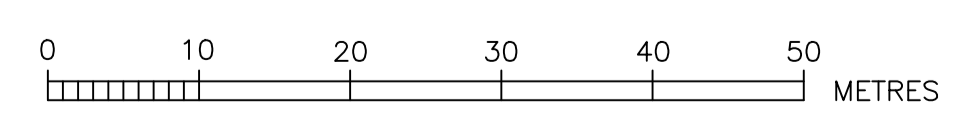
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WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	<b>Sydney WATER</b>	Case No.190189WW SHT 7 OF 11 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	FOR DETAILS OF SERVICES SEE SHEET 1	
COMPLETED	14.02.2023		
W.A.C. PREPARED	15.02.2023		
DESIGNER	QALCHEK PTY LTD	SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS			

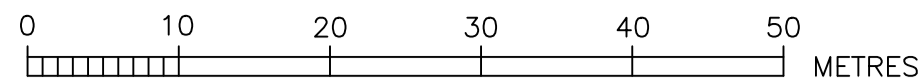


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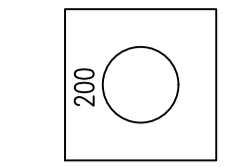


WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	<b>Sydney WATER</b>	Case No.190189WW   SHT 8 OF 11 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD		
COMPLETED	14.02.2023		
W.A.C. PREPARED	15.02.2023		
DESIGNER	QALCHEK PTY LTD	SYDNEY 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	

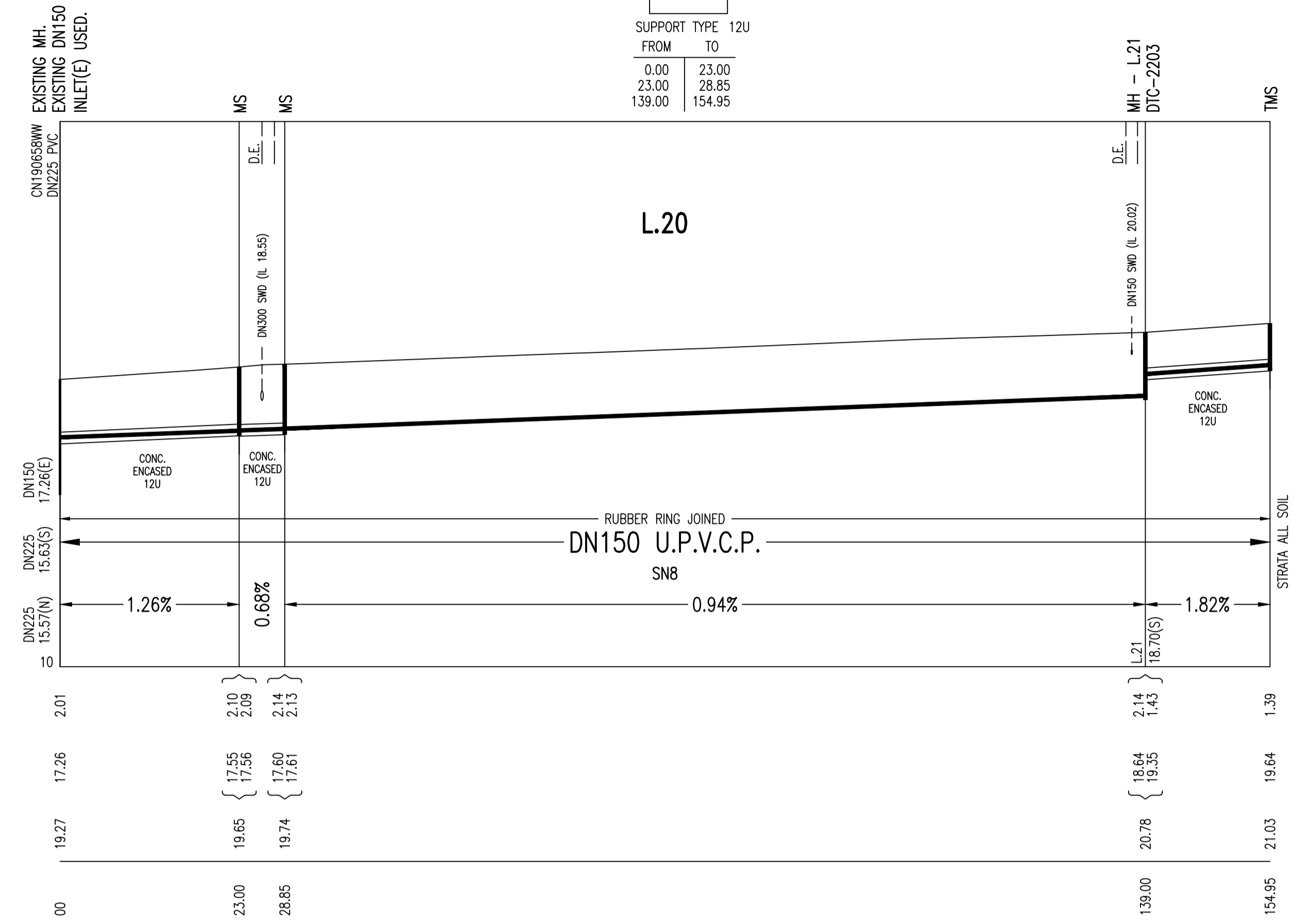
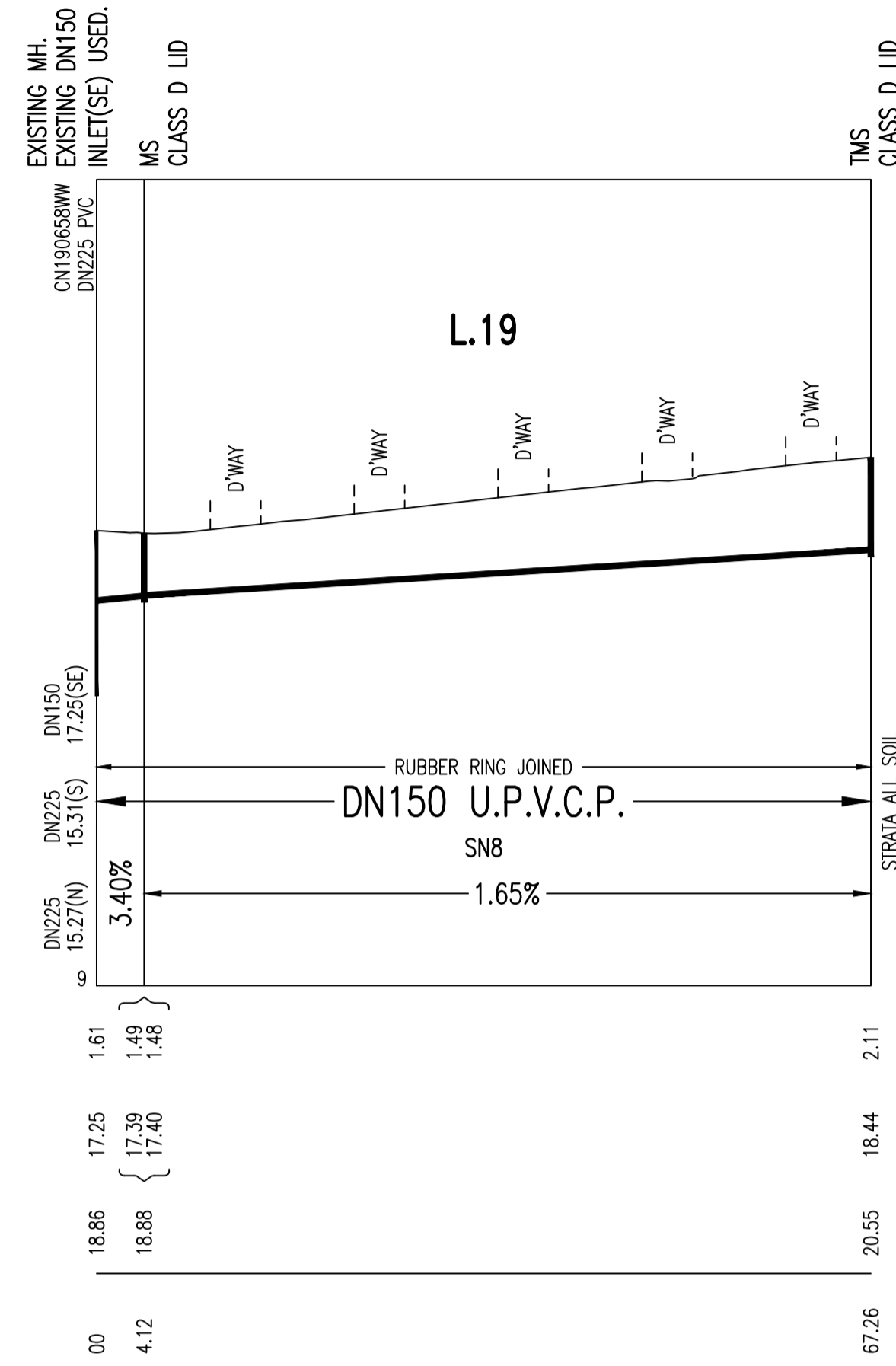
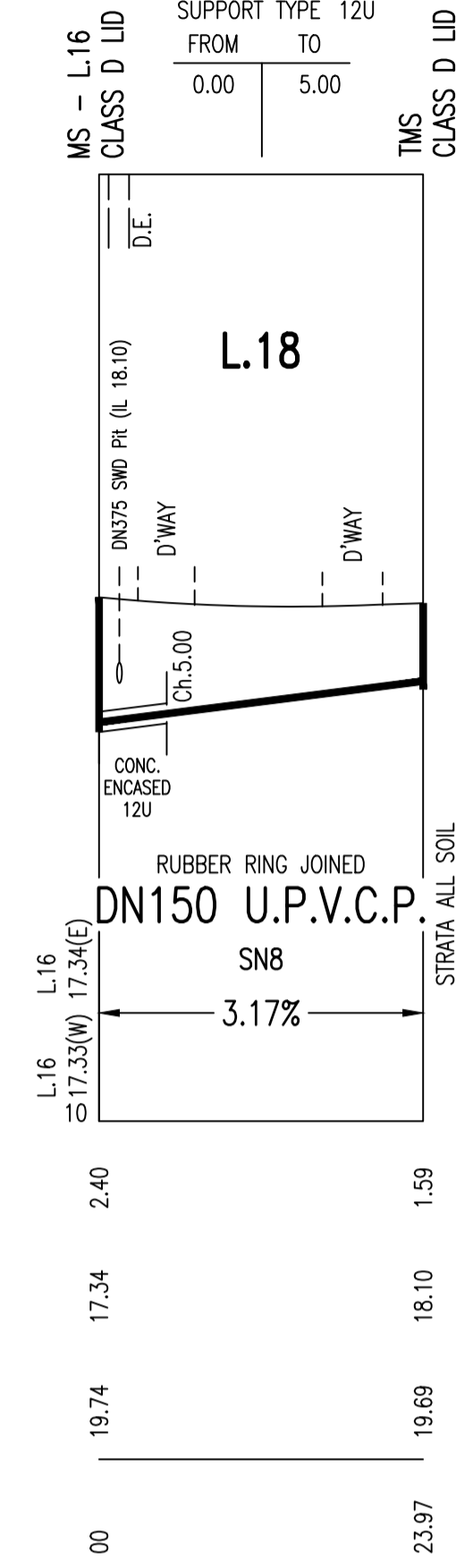
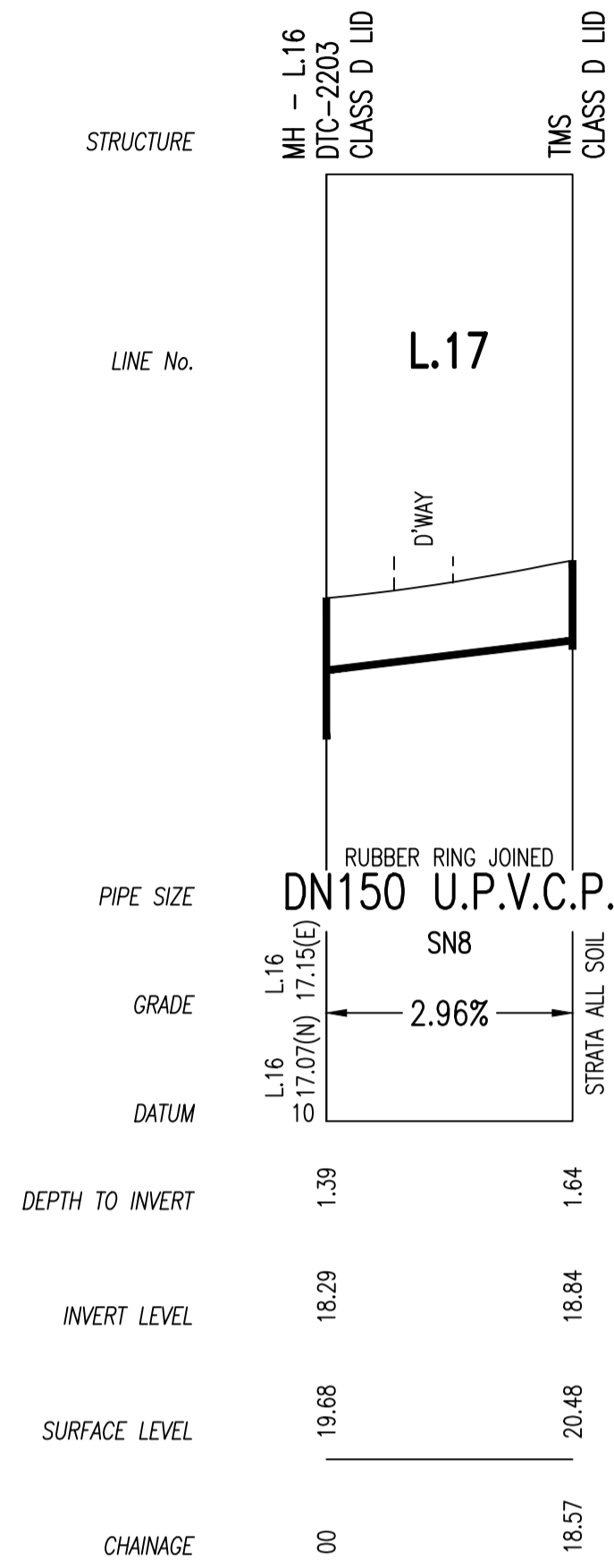




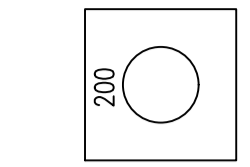
CONCRETE ENCASED



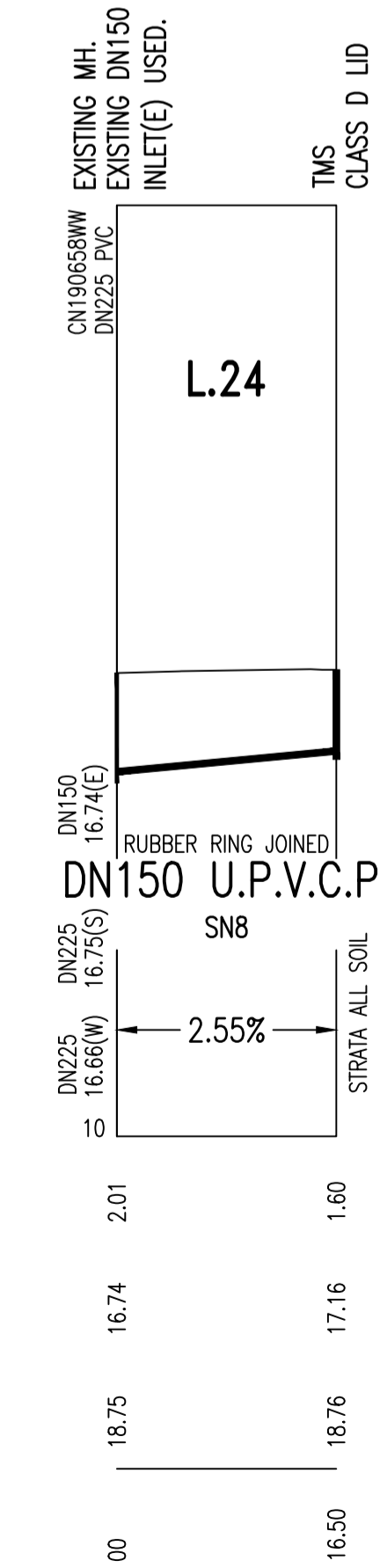
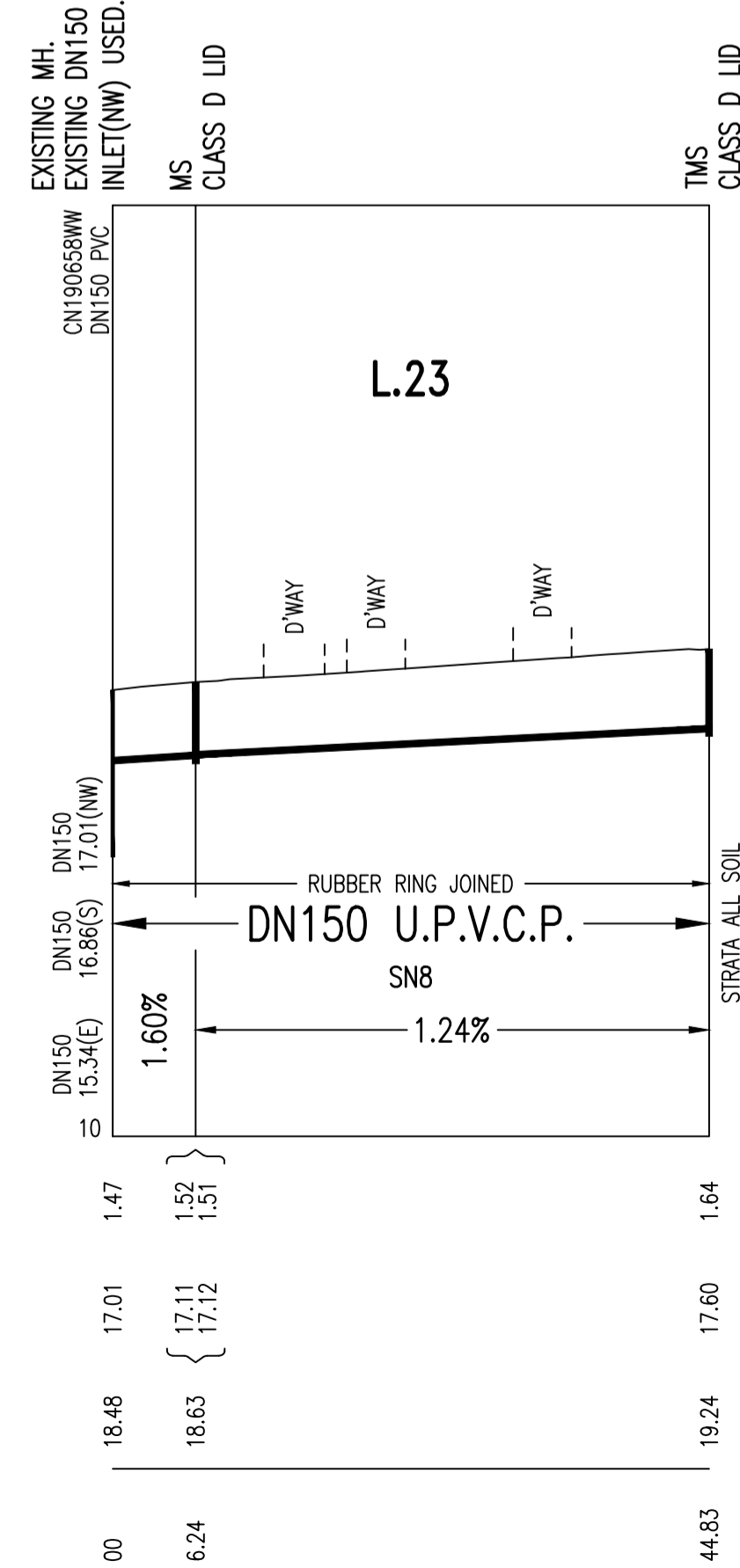
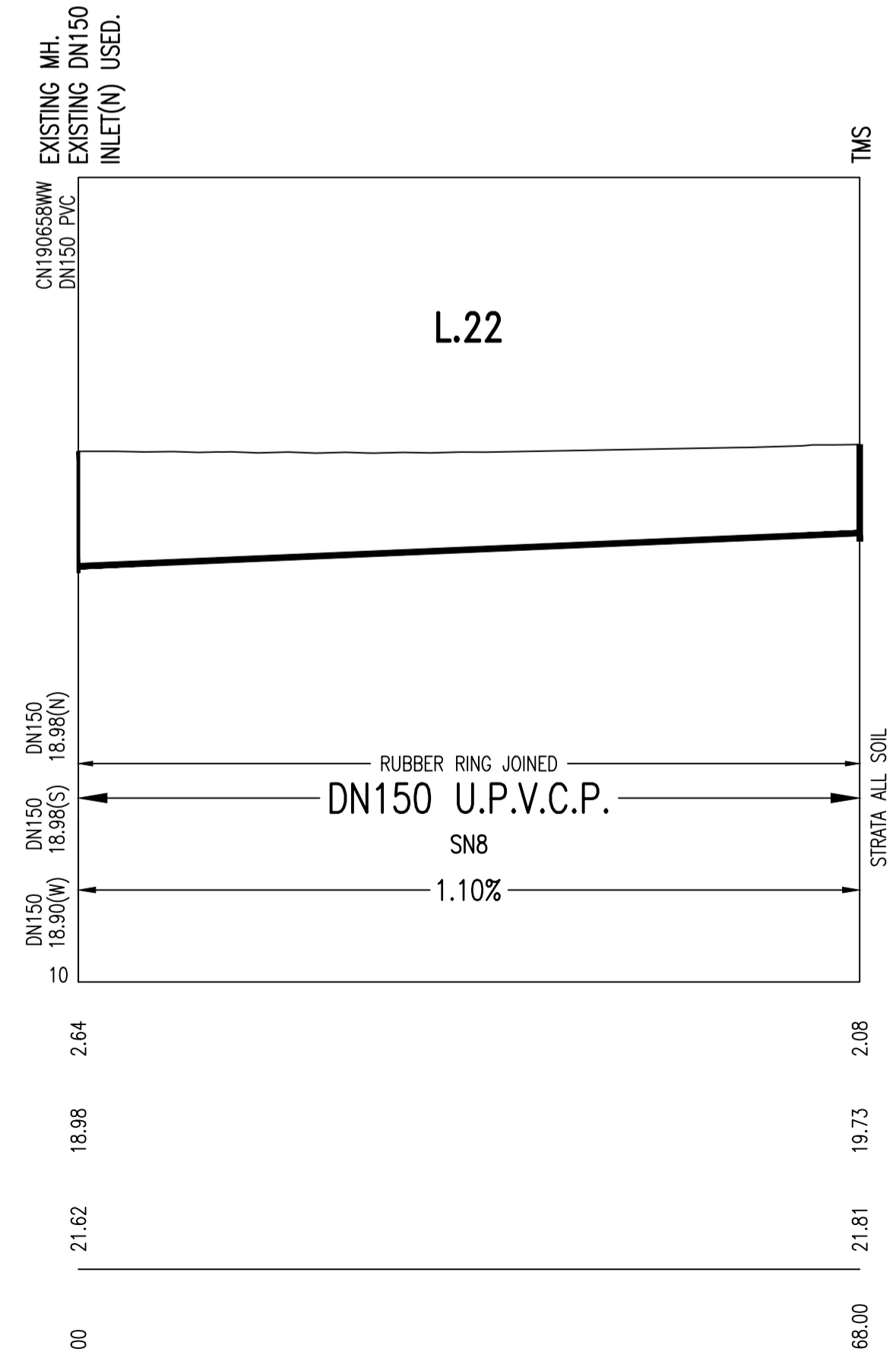
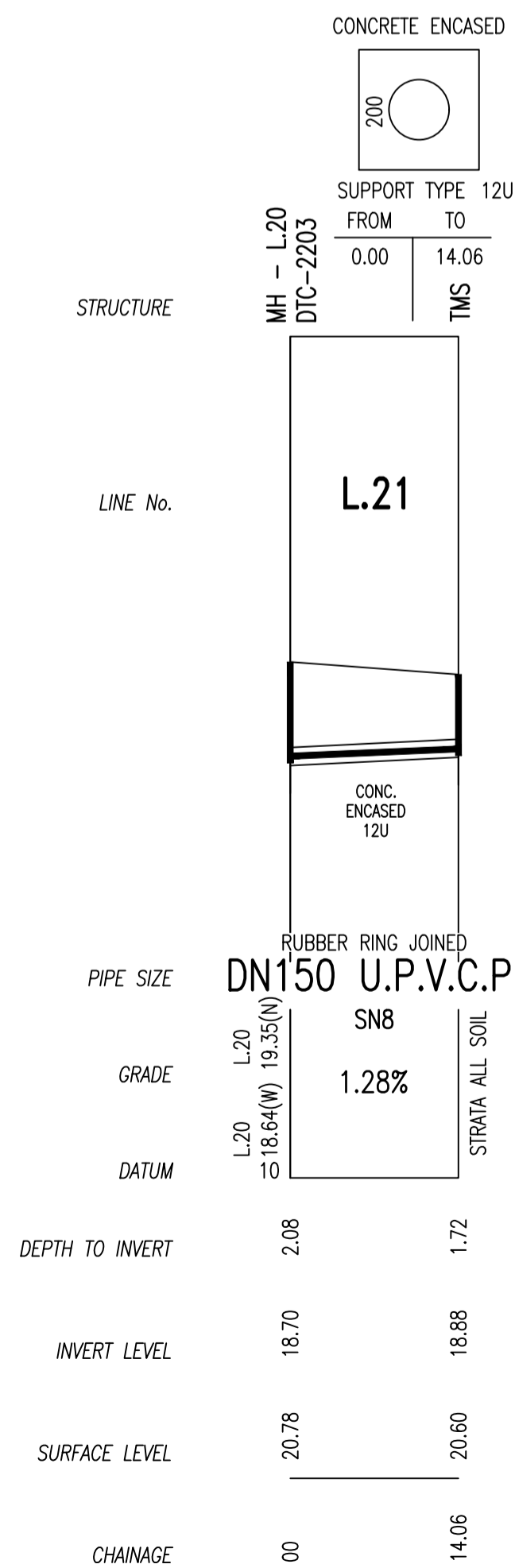
SUPPORT TYPE 12U  
FROM 0.00 TO 5.00



CONCRETE ENCASED



SUPPORT TYPE 12U  
FROM 0.00 TO 23.00  
23.00 TO 28.85  
139.00 TO 154.95



1	WORK AS CREATED	JV	15.02.23
C	EX MH LID LEVEL ADJUSTED	TT	30.08.22
B	ISSUE FOR APPROVAL	FJ	09.09.21
A	ISSUE FOR CLIENT REVIEW	FJ	03.05.21
No.	AMENDMENT DESCRIPTION	BY	DATE

**WORK AS CREATED CERTIFICATION**

DEVELOPER: WOORONG PARK PTY LTD  
 W.S.C.: QALCHEK PTY LTD  
 CONSTRUCTOR: C.J. DOYLE CONTRACTING PTY LTD  
 COMPLETED: 14.02.2023  
 W.A.C. PREPARED: 15.02.2023

DESIGNER: QALCHEK PTY LTD

I CERTIFY THAT THE WORKS HAVE BEEN CREATED IN ACCORDANCE WITH THE WORK AS CREATED DRAWINGS

**Sydney WATER**  
 SYDNEY WATER CORPORATION  
 Case No.190189WW SHT 9 OF 11 SHTS.

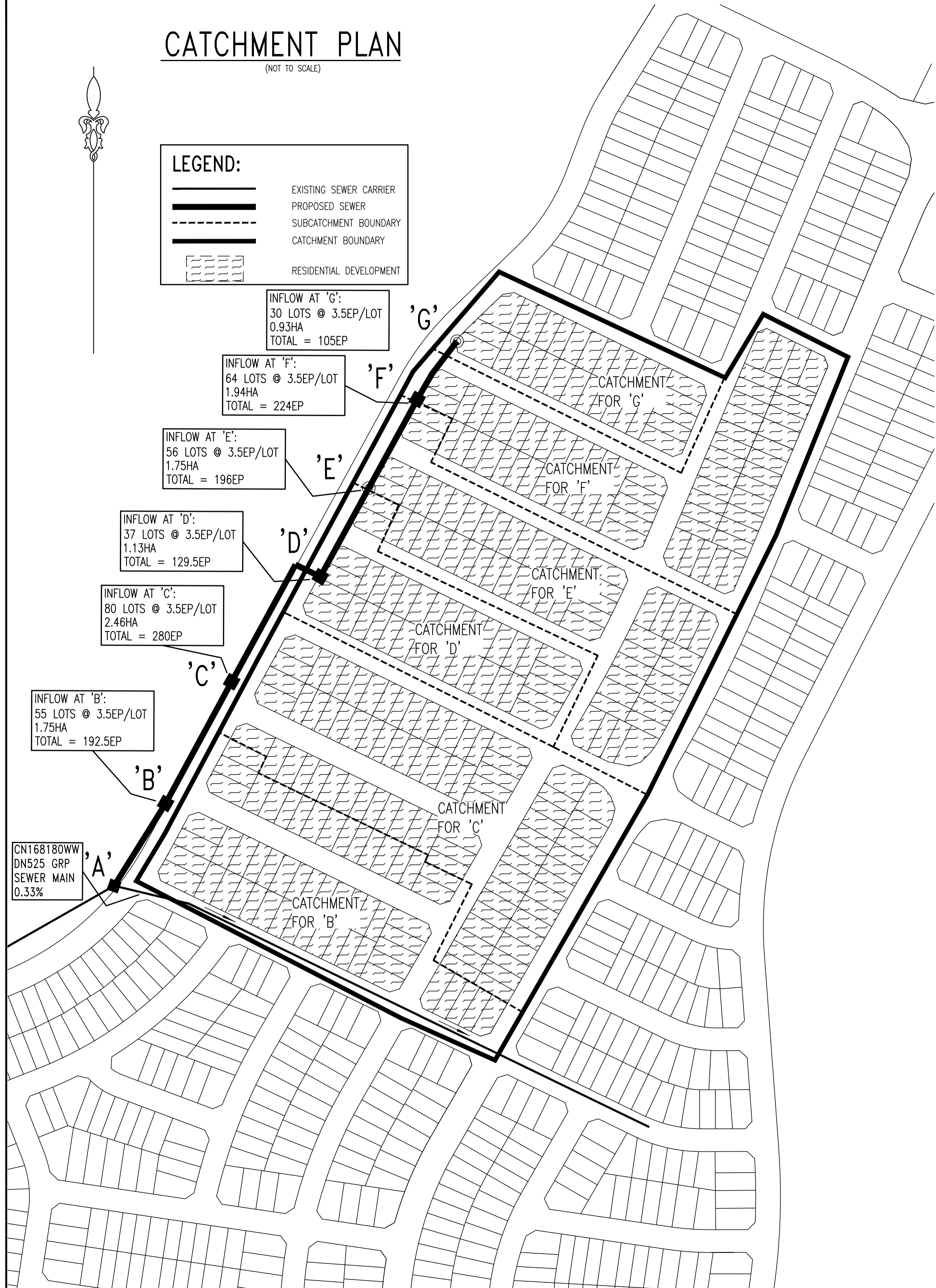
FOR DETAILS OF SERVICES SEE SHEET 1

# CATCHMENT PLAN

(NOT TO SCALE)

## LEGEND:

- EXISTING SEWER CARRIER
- PROPOSED SEWER
- SUBCATCHMENT BOUNDARY
- CATCHMENT BOUNDARY
- RESIDENTIAL DEVELOPMENT



INFLOW AT 'G':  
30 LOTS @ 3.5EP/LOT  
0.93HA  
TOTAL = 105EP

INFLOW AT 'F':  
64 LOTS @ 3.5EP/LOT  
1.94HA  
TOTAL = 224EP

INFLOW AT 'E':  
56 LOTS @ 3.5EP/LOT  
1.75HA  
TOTAL = 196EP

INFLOW AT 'D':  
37 LOTS @ 3.5EP/LOT  
1.13HA  
TOTAL = 129.5EP

INFLOW AT 'C':  
80 LOTS @ 3.5EP/LOT  
2.46HA  
TOTAL = 280EP

INFLOW AT 'B':  
55 LOTS @ 3.5EP/LOT  
1.75HA  
TOTAL = 192.5EP

CN168180WW  
DN525 GRP  
SEWER MAIN  
0.33%

<b>EP FOR CONNECTION POINT B</b> Residential: 55 Lots @ 3.5EP/Lot = 192.5EP (1.75ha) Total: 192.5EP	<b>EP FOR CONNECTION POINT C</b> Residential: 80 Lots @ 3.5EP/Lot = 280EP (2.46ha) Total: 280EP	<b>EP FOR CONNECTION POINT D</b> Residential: 37 Lots @ 3.5EP/Lot = 129.5EP (1.13ha) Total: 129.5EP	<b>EP FOR CONNECTION POINT E</b> Residential: 56 Lots @ 3.5EP/Lot = 196EP (1.75ha) Total: 196EP	<b>EP FOR CONNECTION POINT F</b> Residential: 64 Lots @ 3.5EP/Lot = 224EP (1.94ha) Total: 224EP	<b>EP FOR CONNECTION POINT G</b> Residential: 30 Lots @ 3.5EP/Lot = 105EP (0.93ha) Total: 105EP
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Point 'A' CH: 00 DN225 uPVC SN8 ID = 233.6mm 0.40%	Point 'B' CH: 68 DN225 uPVC SN8 ID = 233.6mm 0.43%	Point 'C' CH: 166 DN225 uPVC SN8 ID = 233.6mm 0.49%	Point 'D' CH: 279 DN225 uPVC SN8 ID = 233.6mm 0.52%	Point 'E' CH: 350 DN225 uPVC SN8 ID = 233.6mm 0.60%	Point 'F' CH: 421 DN150 uPVC SN8 ID = 149.60mm 0.79%	Point 'G' CH: 471
Total Area = 9.96 ha Total EP = 1127 CAP = 31.80 l/s DF = 17.98 l/s	Total Area = 8.21 ha Total EP = 935 CAP = 32.98 l/s DF = 15.72 l/s	Total Area = 5.75 ha Total EP = 655 CAP = 35.22 l/s DF = 12.28 l/s	Total Area = 4.62 ha Total EP = 525 CAP = 36.29 l/s DF = 10.61 l/s	Total Area = 2.87 ha Total EP = 329 CAP = 38.99 l/s DF = 7.90 l/s	Total Area = 0.93 ha Total EP = 105 CAP = 13.64 l/s DF = 4.17 l/s	

## FLOWCHART L.1 'A' TO 'G' 09.09.2021

<b>SEWERAGE FLOW SCHEDULE (SUMMARY) : Updated Jan 2016</b>			
Complied by:	Florian Jaehne	Date:	09.09.2021
Checked by:	David Loizou	Date:	13.09.2021
Plan No.	PM 27898	Location:	Stage 7B Newport, Marsden Park
e-Developer No.	CN 190189WW	Description:	Reticulation system L.1
JOB No. (SWC use)	0		
	00-Jan-00		

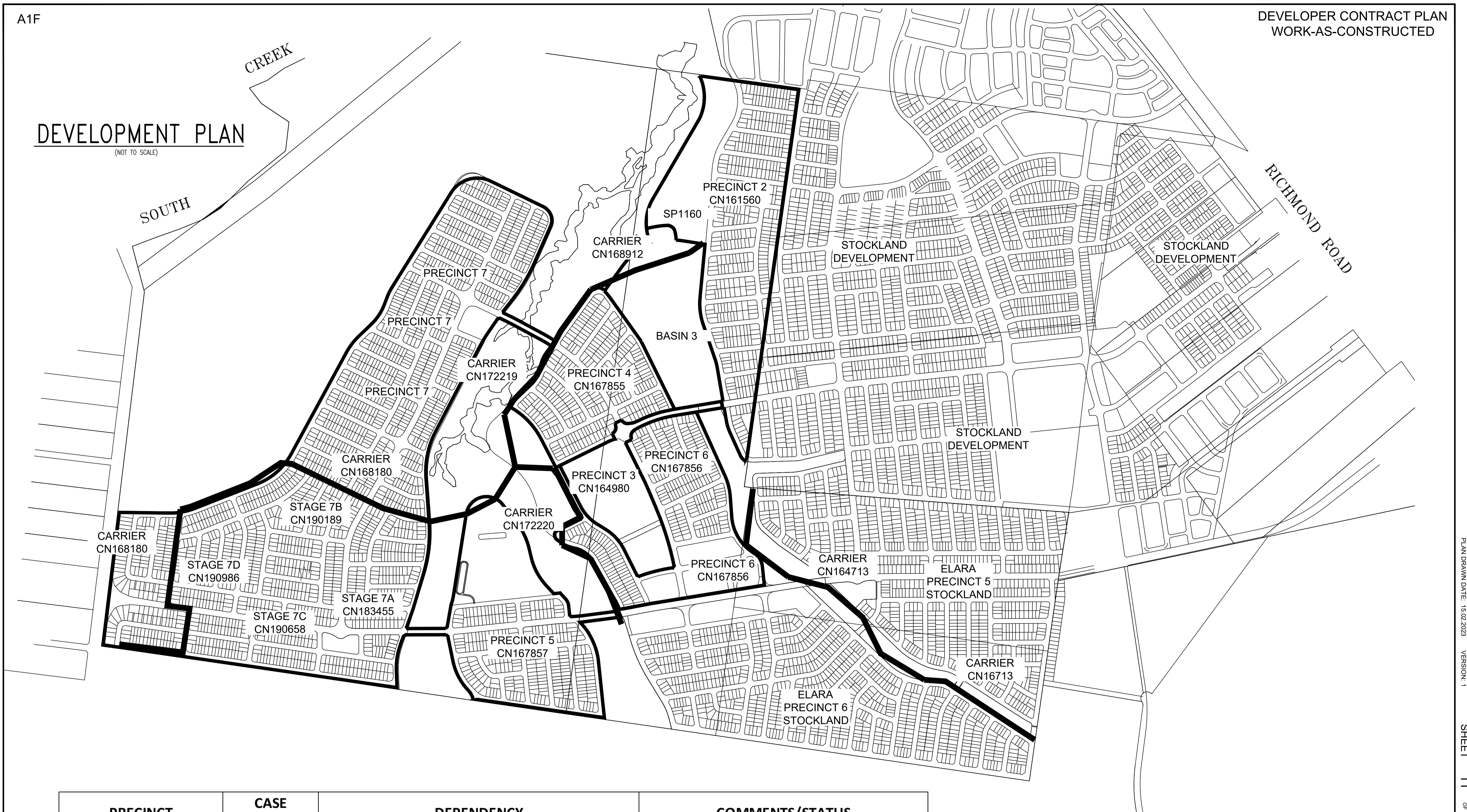
SUMMARY													
SECTION	CHAINAGE	TOTAL AREA	TOTAL Grav	TOTAL Grav + Pump	PIPE SIZE (DN)	PIPE SIZE (ID)	PIPE GRADE	DESIGN FLOW (DF)	Qf (Capacity)	Actual	SELF CLEANSING	SLIME CONTROL	Capacity
	m	Ha	EP	EP	mm	mm	%	L/s	L/s	PDWF			Deficit
A-B	0 - 68	9.96	1127	1127	225	233.6	0.4	17.98	31.80	6.04	Self Cleansing OK	NA	OK
B-C	68 - 166	8.21	935	935	225	233.6	0.43	15.72	32.98	5.28	Self Cleansing OK	NA	OK
C-D	166 - 279	5.75	655	655	225	233.6	0.49	12.28	35.22	4.13	Self Cleansing OK	NA	OK
D-E	279 - 350	4.62	525	525	225	233.6	0.52	10.61	36.29	3.57	Self Cleansing OK	NA	OK
E-F	350 - 421	2.87	329	329	225	233.6	0.6	7.90	38.99	2.66	Self Cleansing OK	NA	OK
F-G	421 - 471	0.93	105	105	150	149.6	0.79	4.17	13.64	1.40	Self Cleansing OK	NA	OK

## FLWSCHEDULE SUMMARY L.1 'A' TO 'G' 09.09.2021

1	WORK AS CONSTRUCTED	JV	15.02.23
C	EX MH LID LEVEL ADJUSTED	TT	30.08.22
B	ISSUE FOR APPROVAL	FJ	09.09.21
A	ISSUE FOR CLIENT REVIEW	FJ	03.05.21
No.	AMENDMENT DESCRIPTION	BY	DATE

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	<b>Sydney WATER</b>	Case No.190189WW   SHT 10 OF 11 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD	DESIGNER . . . QALCHEK PTY LTD	
COMPLETED	14.02.2023	I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	
W.A.C. PREPARED	15.02.2023	FOR DETAILS OF SERVICES SEE SHEET 1	

**DEVELOPMENT PLAN**  
(NOT TO SCALE)



PRECINCT	CASE NUMBER	DEPENDENCY	COMMENTS/STATUS
Winten Precinct 7A	183455	168912, 172219, 172220	Under Construction
Winten Precinct 7C	190658	As 7A & 168180, 183455	Designed and approved
Winten Precinct 7D	190986	As 7C & 190658	For Endorsement with SWC
Winten Precinct 7B	190987	As 7D & 190986	Designed under this CN
Winten Carrier Phase 1	168912	N/A	Completed, connected
Winten Carrier Phase 2	172219	168912	Completed, connected
Winten Carrier Phase 3	172220	168912, 172219	Completed, connected
Winten Carrier Stage 2	168180	168912, 172219, 172220	Under Construction

1	WORK AS CONSTRUCTED	JV	15.02.23
C	EX MH LID LEVEL ADJUSTED	TT	30.08.22
B	ISSUE FOR APPROVAL	FJ	09.09.21
A	ISSUE FOR CLIENT REVIEW	FJ	03.05.21
No.	AMENDMENT DESCRIPTION	BY	DATE

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	<b>Sydney WATER</b>	
W.S.C.	QALCHEK PTY LTD	Case No. 190189WW	SHT 11 OF 11 SHTS.
CONSTRUCTOR	C.J. DOYLE CONTRACTING PTY LTD		
COMPLETED	14.02.2023		
W.A.C. PREPARED	15.02.2023		
DESIGNER	QALCHEK 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	