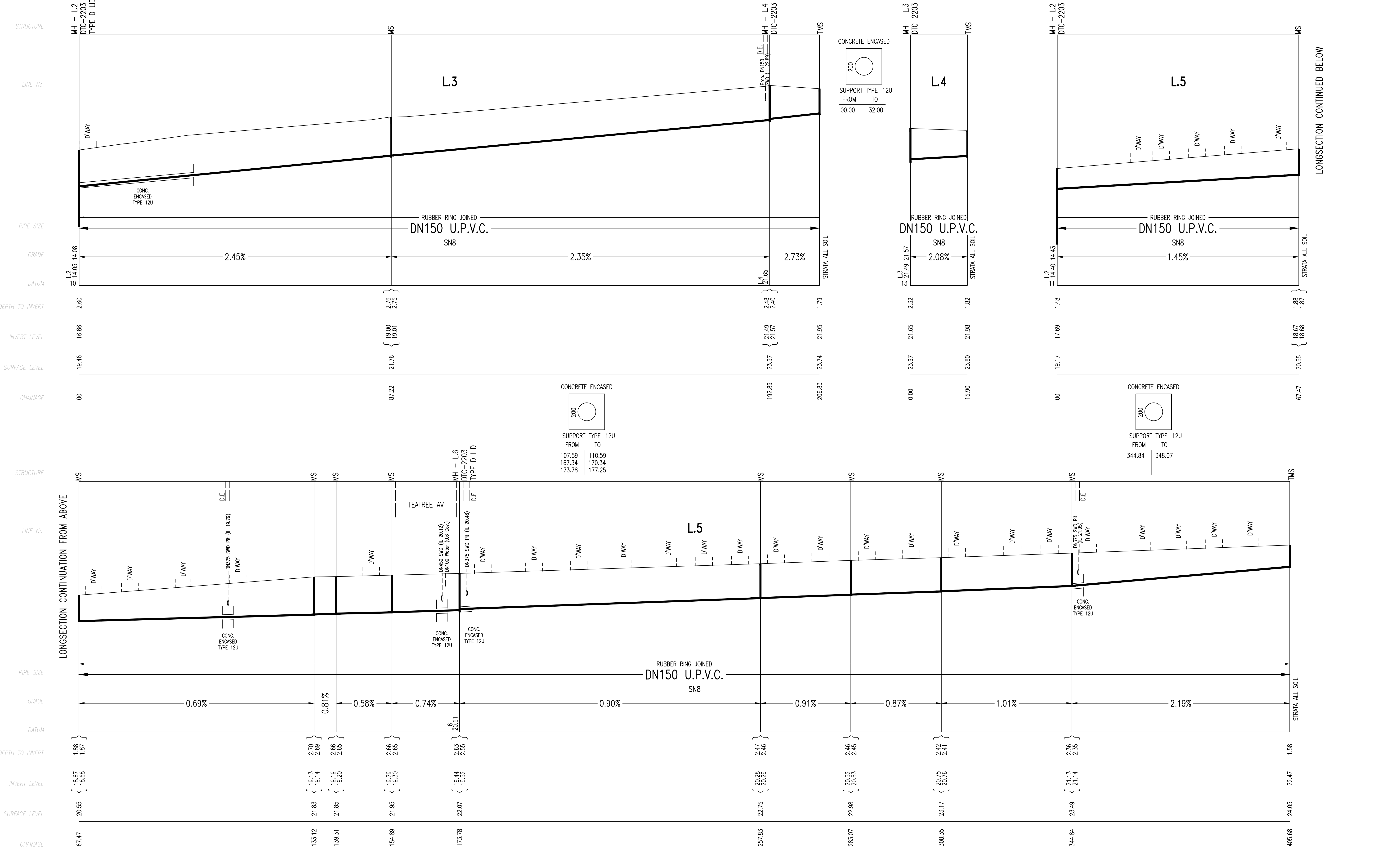


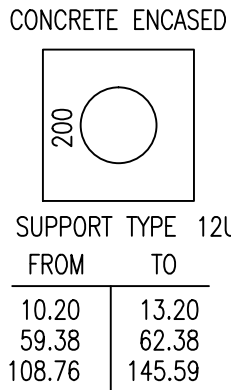
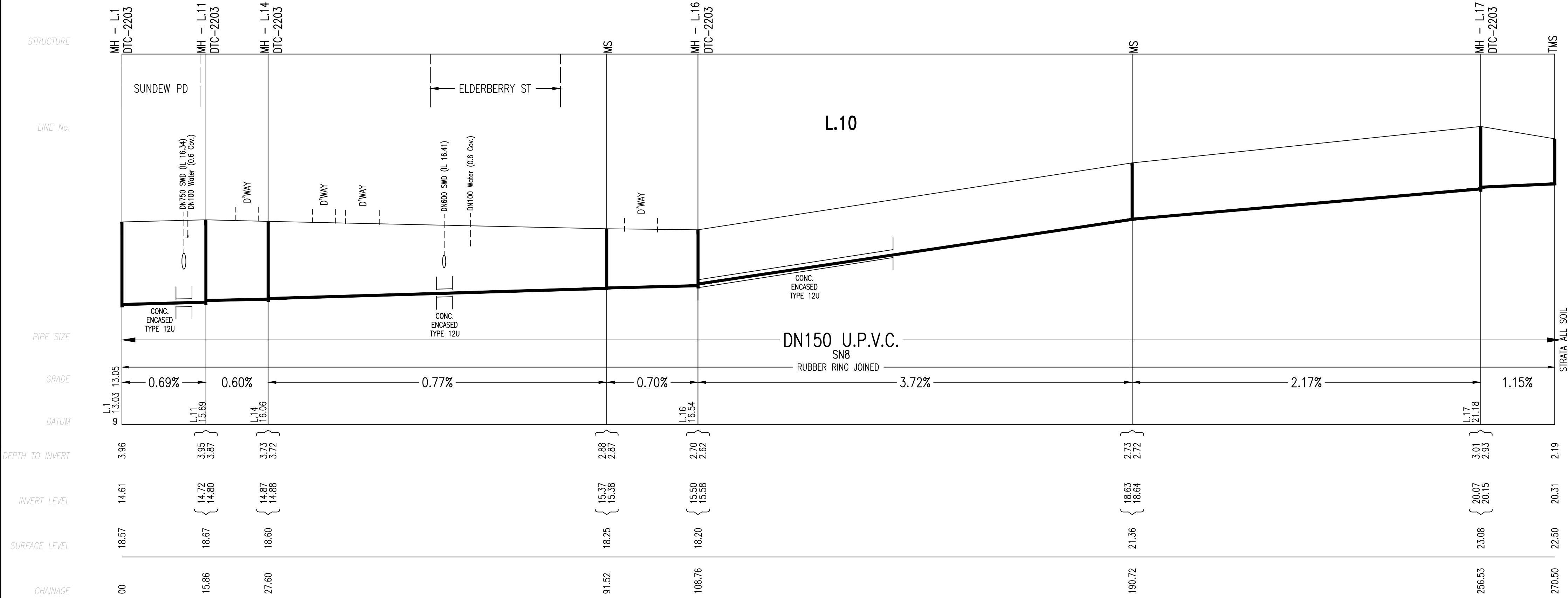
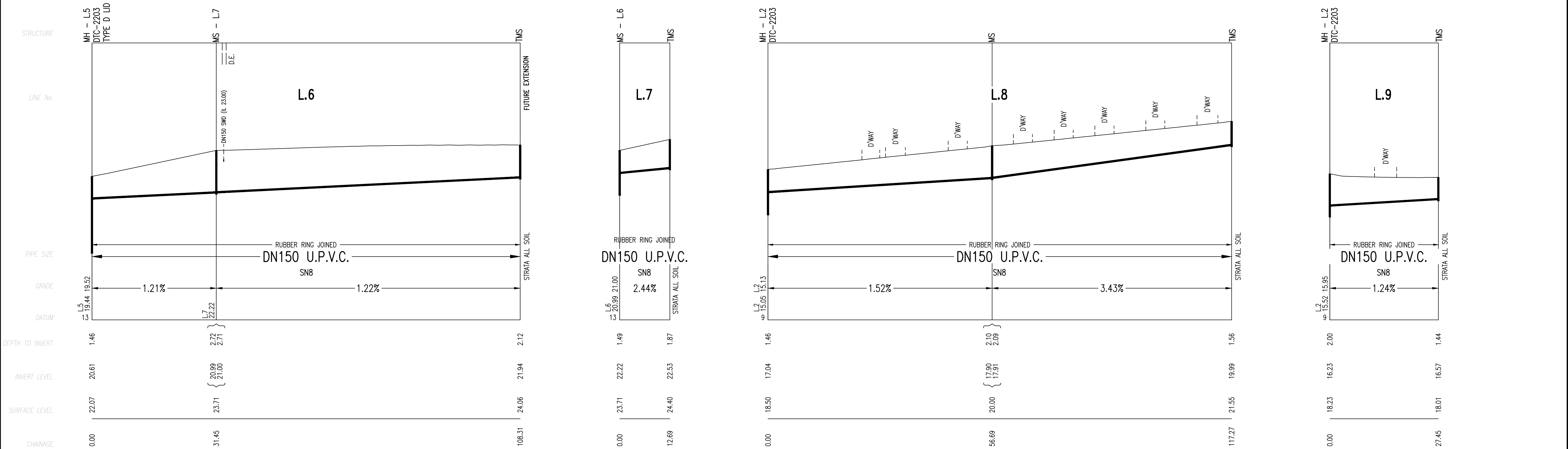
E	CHANGES ON L.31, 36, AND 37 DUE TO EXISTING SEWER LAID UNDER	F.J.	13.09.17
D	ISSUE FOR APPROVAL	J.F.	24.05.17
C	ISSUE FOR TENDER	F.J.	18.04.17
B	AMENDMENTS AS PER CLIENT REQUEST	F.J.	08.03.17
A	MASTERPLAN FOR CLIENT REVIEW	F.J.	03.03.17
No.	AMENDMENT DESCRIPTION	BY	DATE
0	WORK AS CONSTRUCTED	R.B.	15.05.18

WORK AS CONSTRUCTED CERTIFICATION				SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD			<div>Sydney WATER</div>	
W.S.C.	QALCHEK PTY LTD				
CONSTRUCTOR	C.J. DOYLE PTY LTD				
COMPLETED	09.05.18				
W.A.C. PREPARED	15.05.18			Case No. 161560WW	SHT 7 OF 18 SHTS.
DESIGNER	QALCHEK PTY LTD			SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS					



0	WORK AS CONSTRUCTED	R.B.	15.05.18
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WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE PTY LTD	Case No. 161560WW SHT 8 OF 18 SHTS.	
COMPLETED	09.05.18	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
W.A.C. PREPARED	15.05.18		
DESIGNER	QALCHEK PTY LTD		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS			

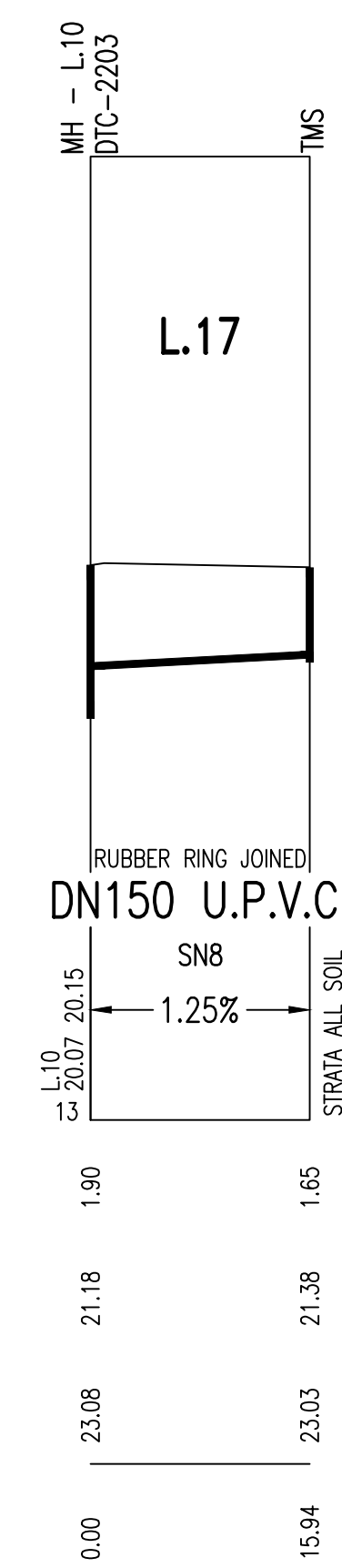
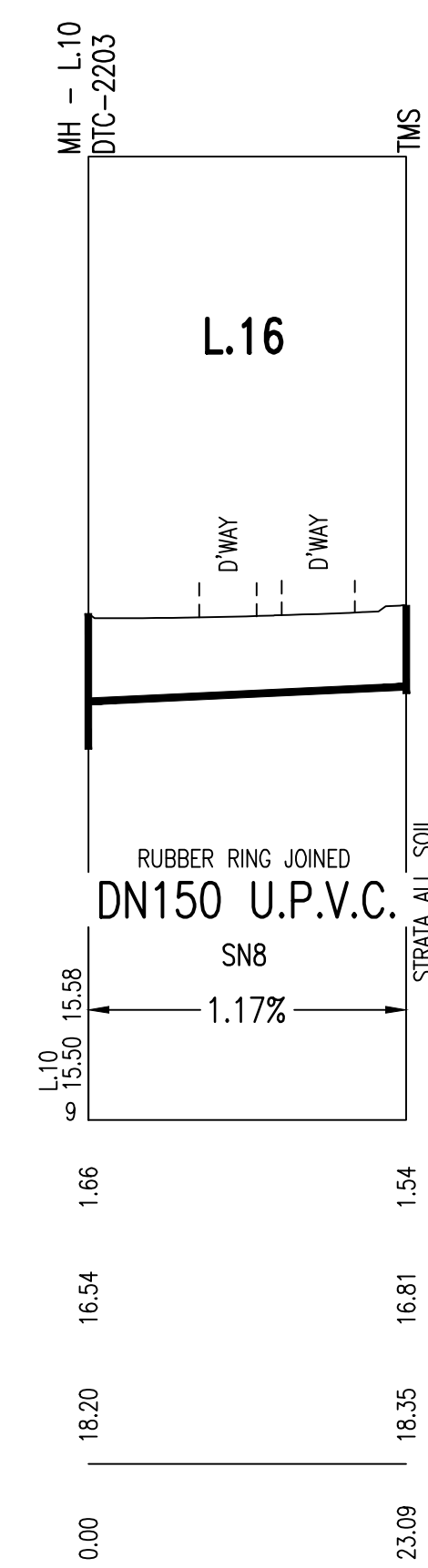
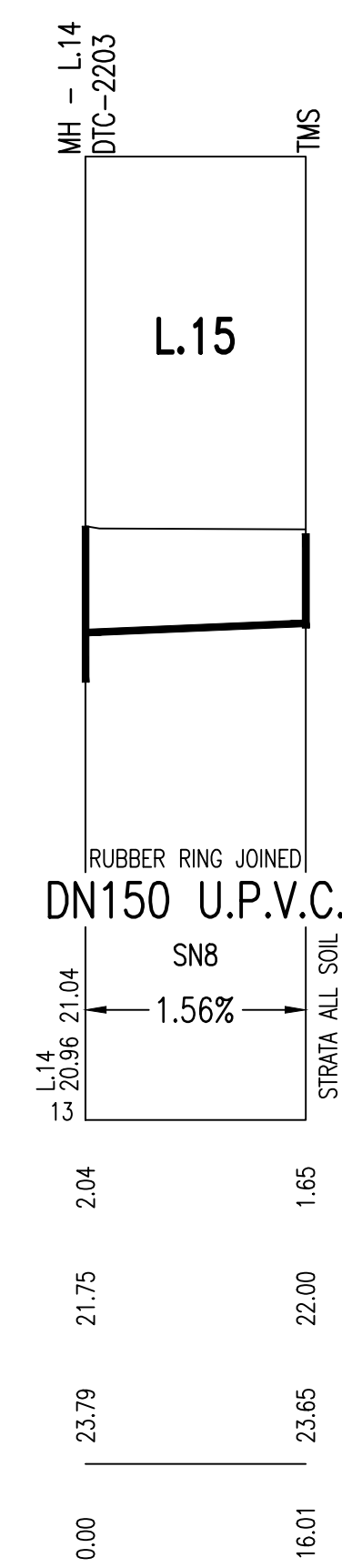
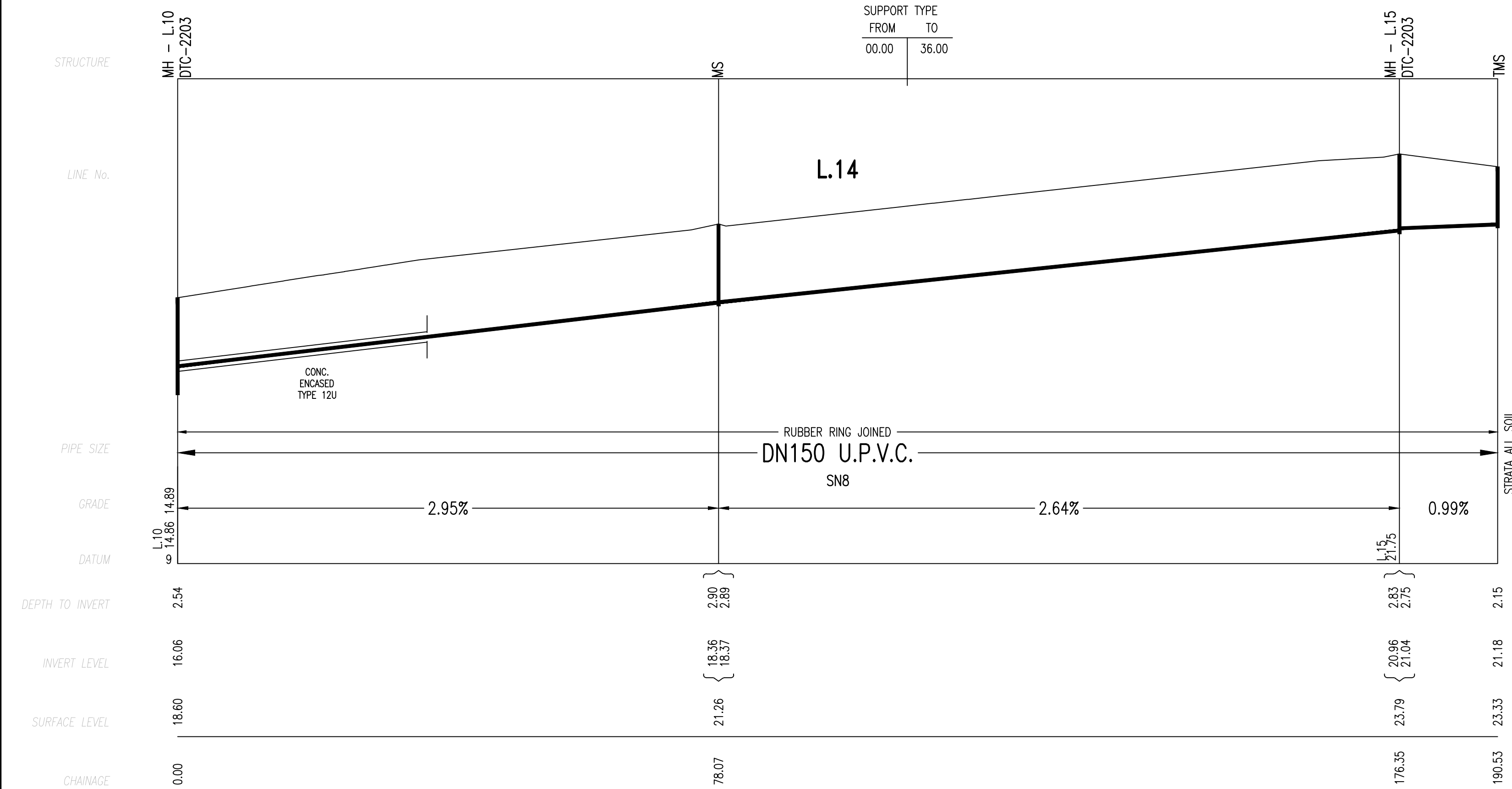
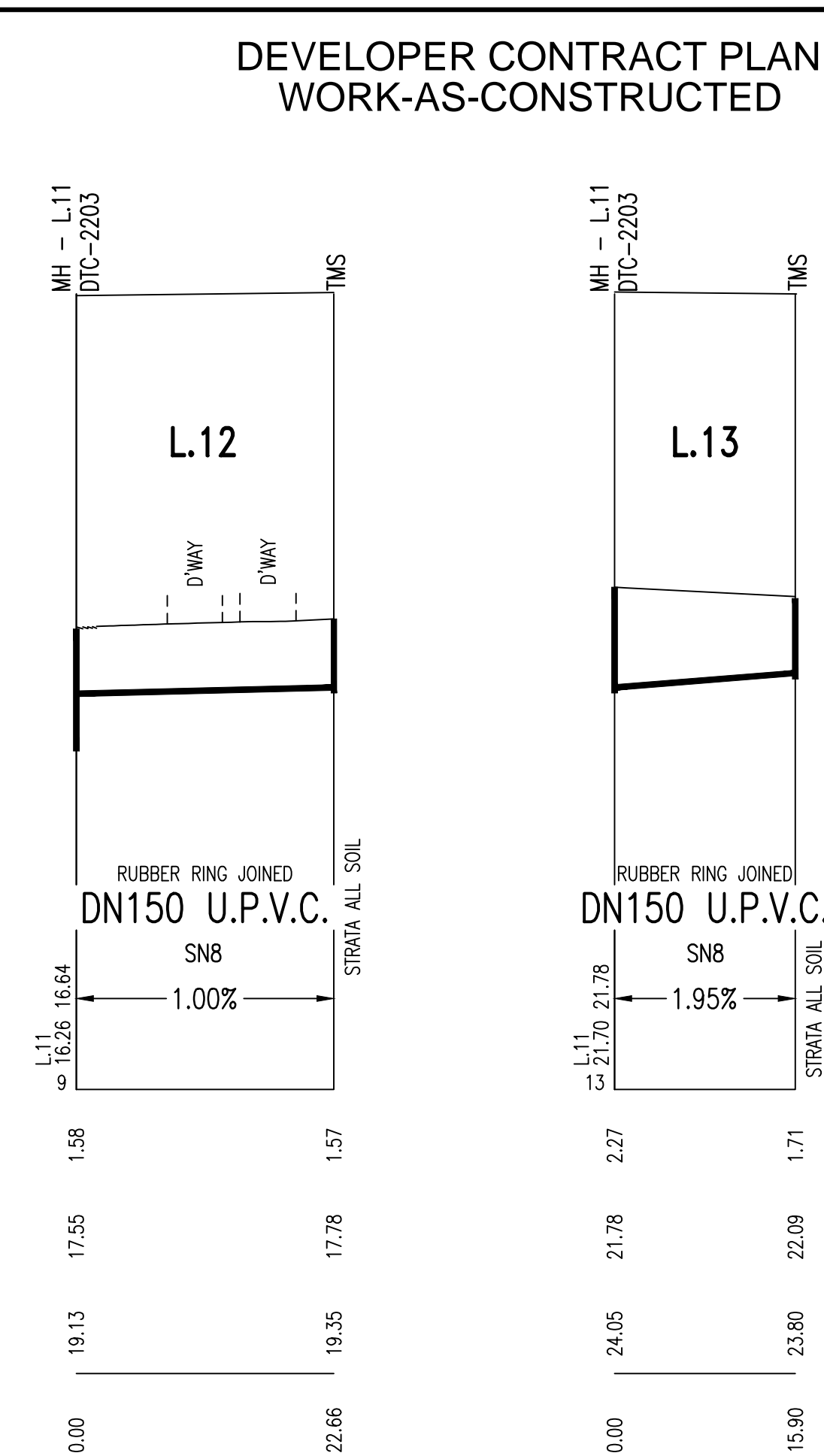
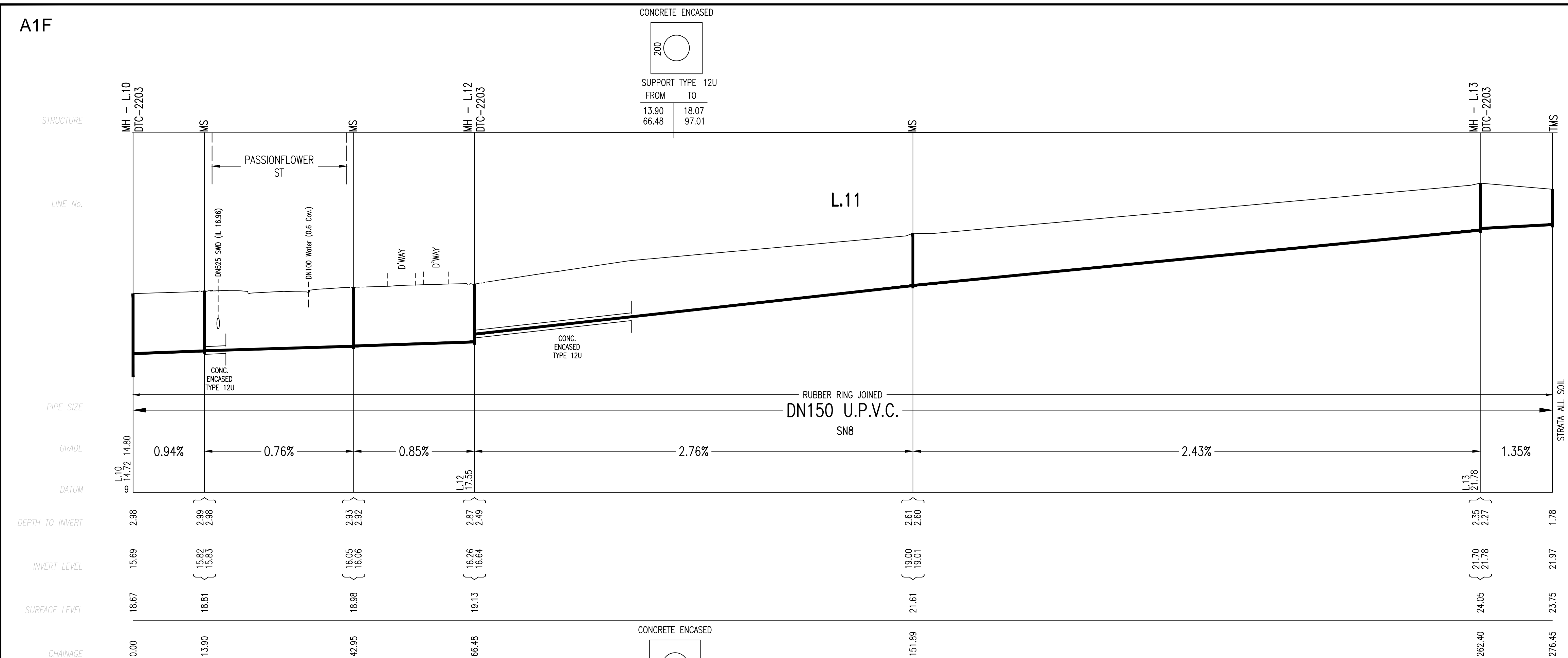


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WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE PTY LTD	Case No. 161560WW SHT 9 OF 18 SHTS.	
COMPLETED	09.05.18	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
W.A.C. PREPARED	15.05.18		
DESIGNER	QALCHEK PTY LTD	I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	

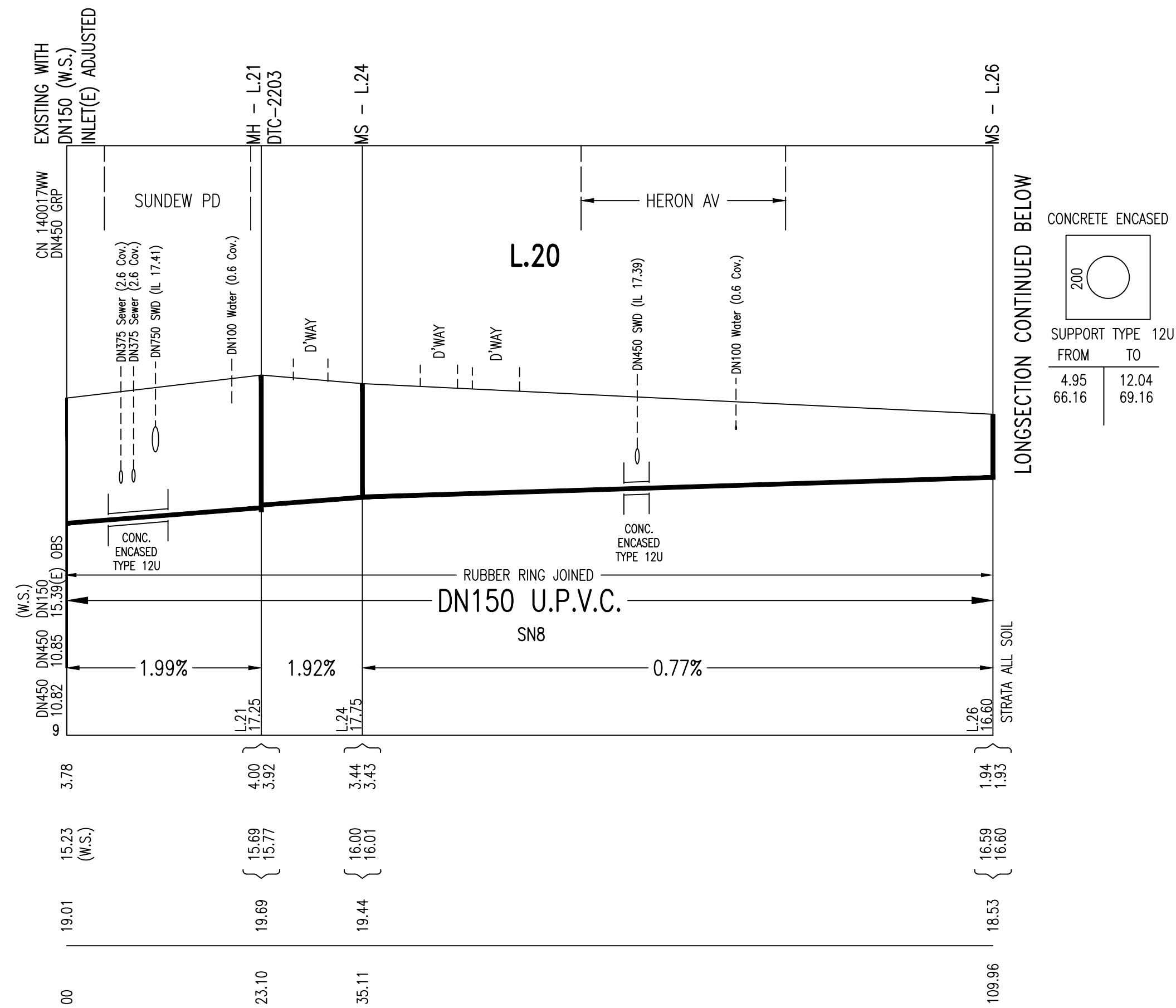
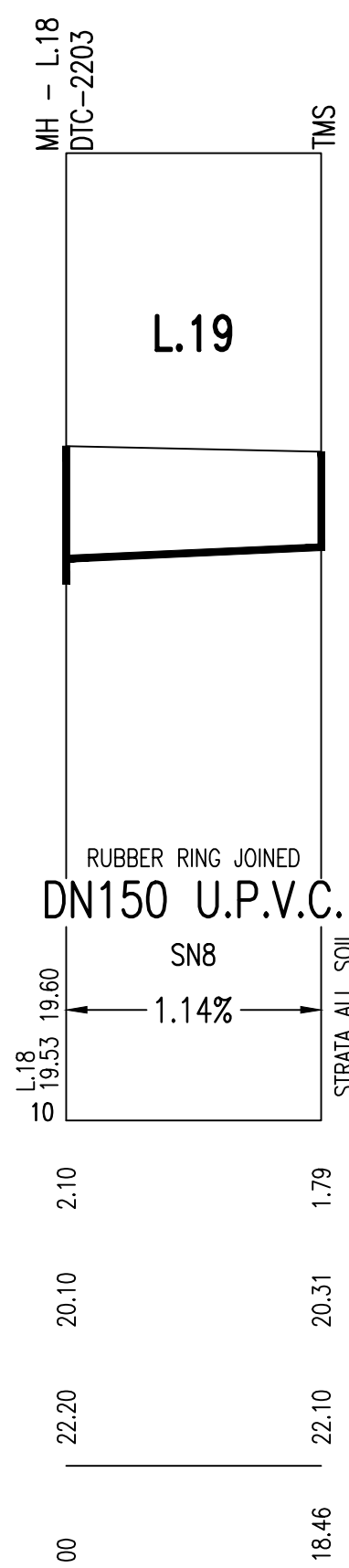
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DEVELOPER CONTRACT PLAN
WORK-AS-CONSTRUCTED

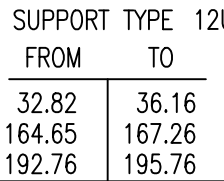



O	WORK AS CONSTRUCTED	R.B.	15.05.18
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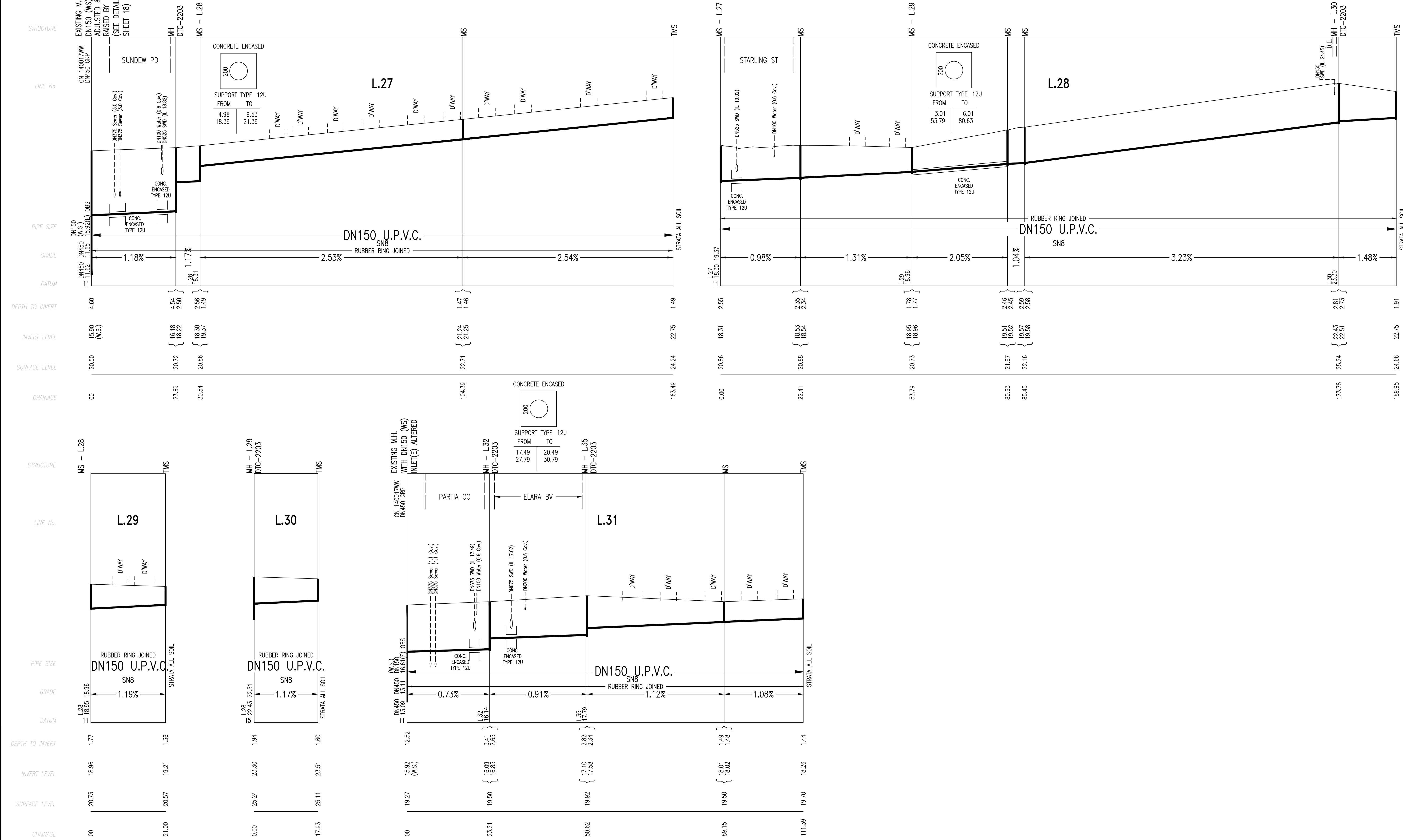
WORK AS CONSTRUCTED CERTIFICATION		 SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Case No. 161560WW	SHT 10 OF 18 SHTS.
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE PTY LTD		
COMPLETED	09.05.18		
W.A.C. PREPARED	15.05.18		
DESIGNER	QALCHEK PTY LTD	SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORK HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1	



WORK AS CONSTRUCTED CERTIFICATION		Sydney <i>WATER</i>		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD.	Case No. 161560WW	SHT 11 OF 18 SHTS.	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
W.S.C.	QALCHEK PTY LTD				
CONSTRUCTOR	C.J. DOYLE PTY LTD				
COMPLETED	09.05.18				
W.A.C. PREPARED	15.05.18				
DESIGNER	QALCHEK PTY LTD				
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS					

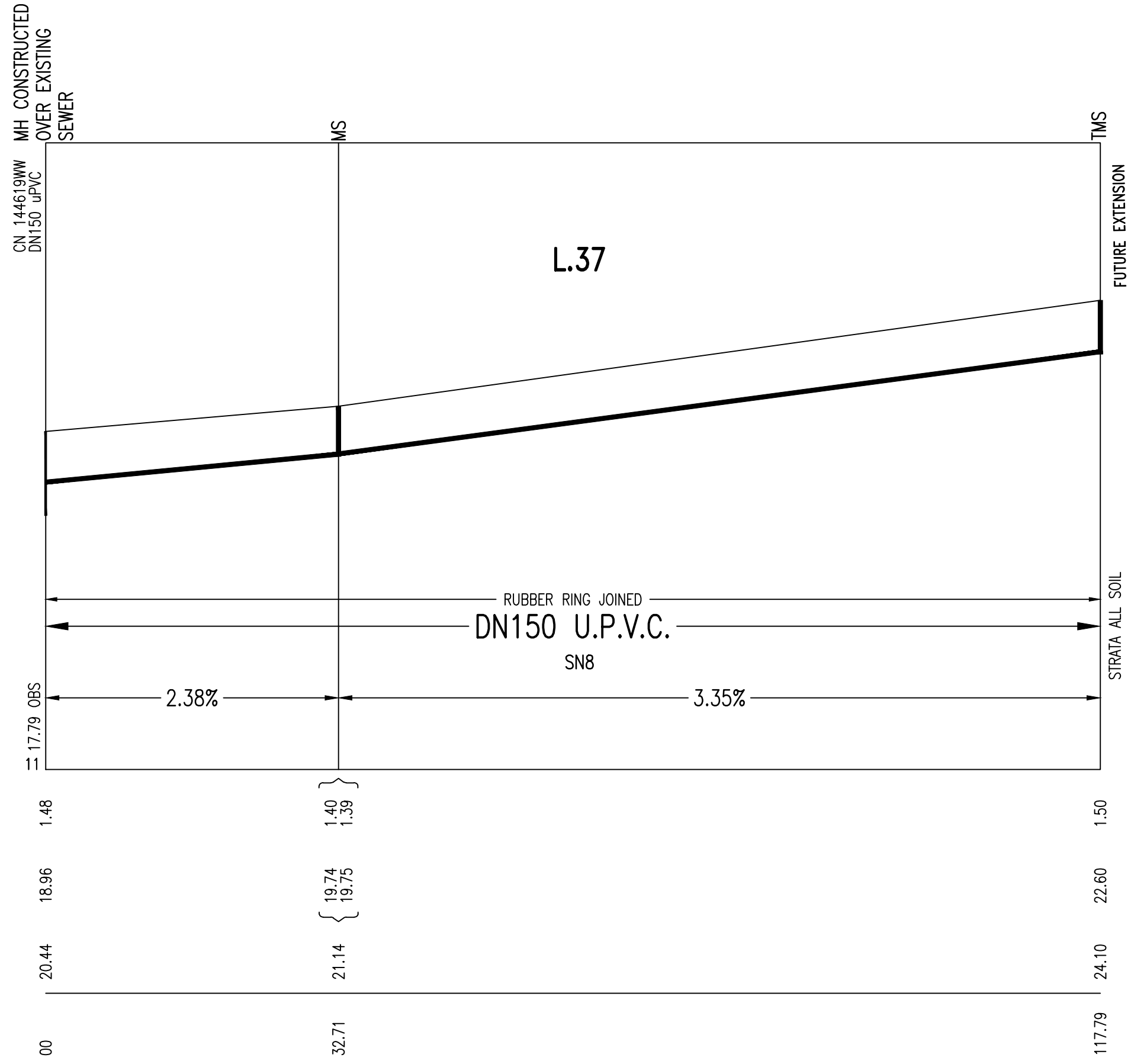
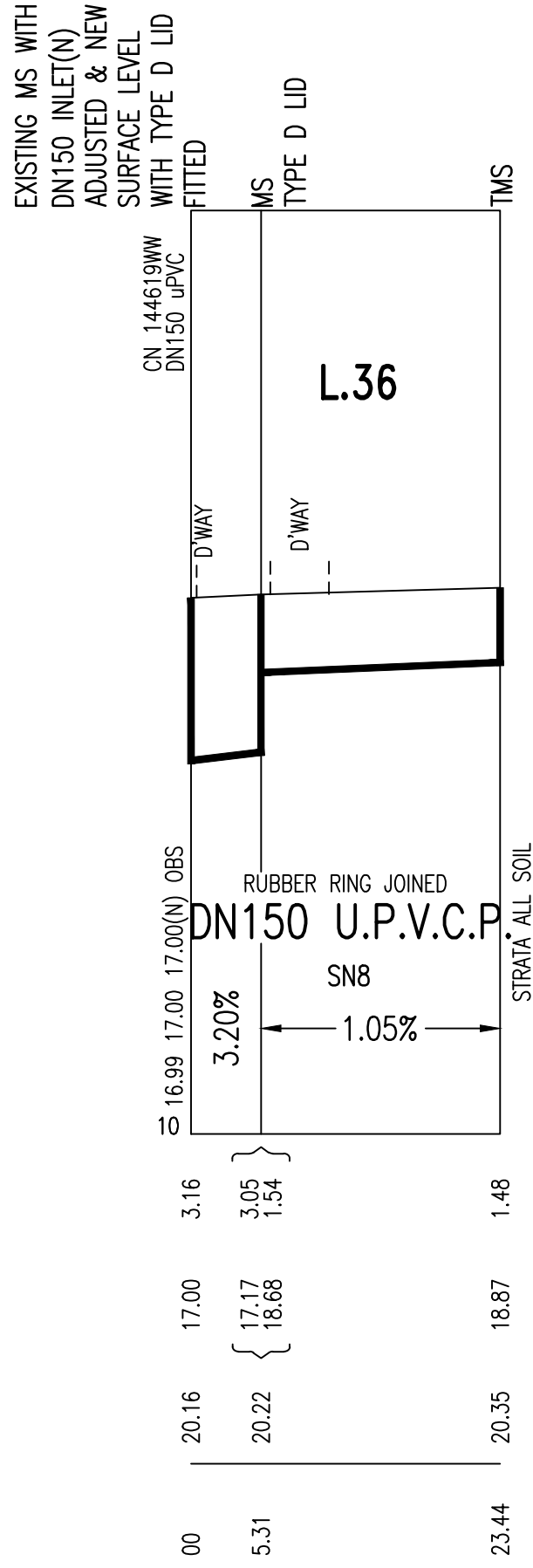
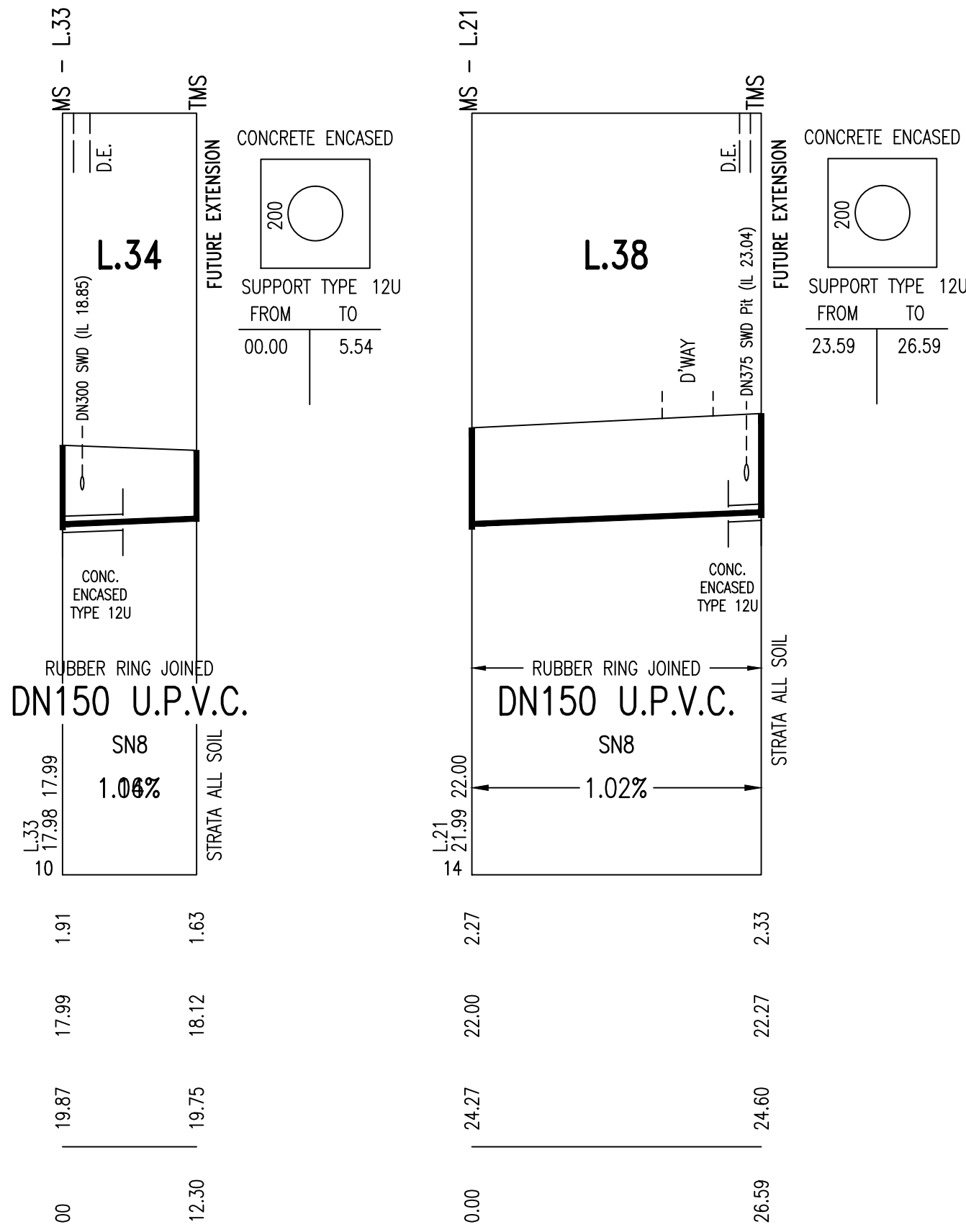
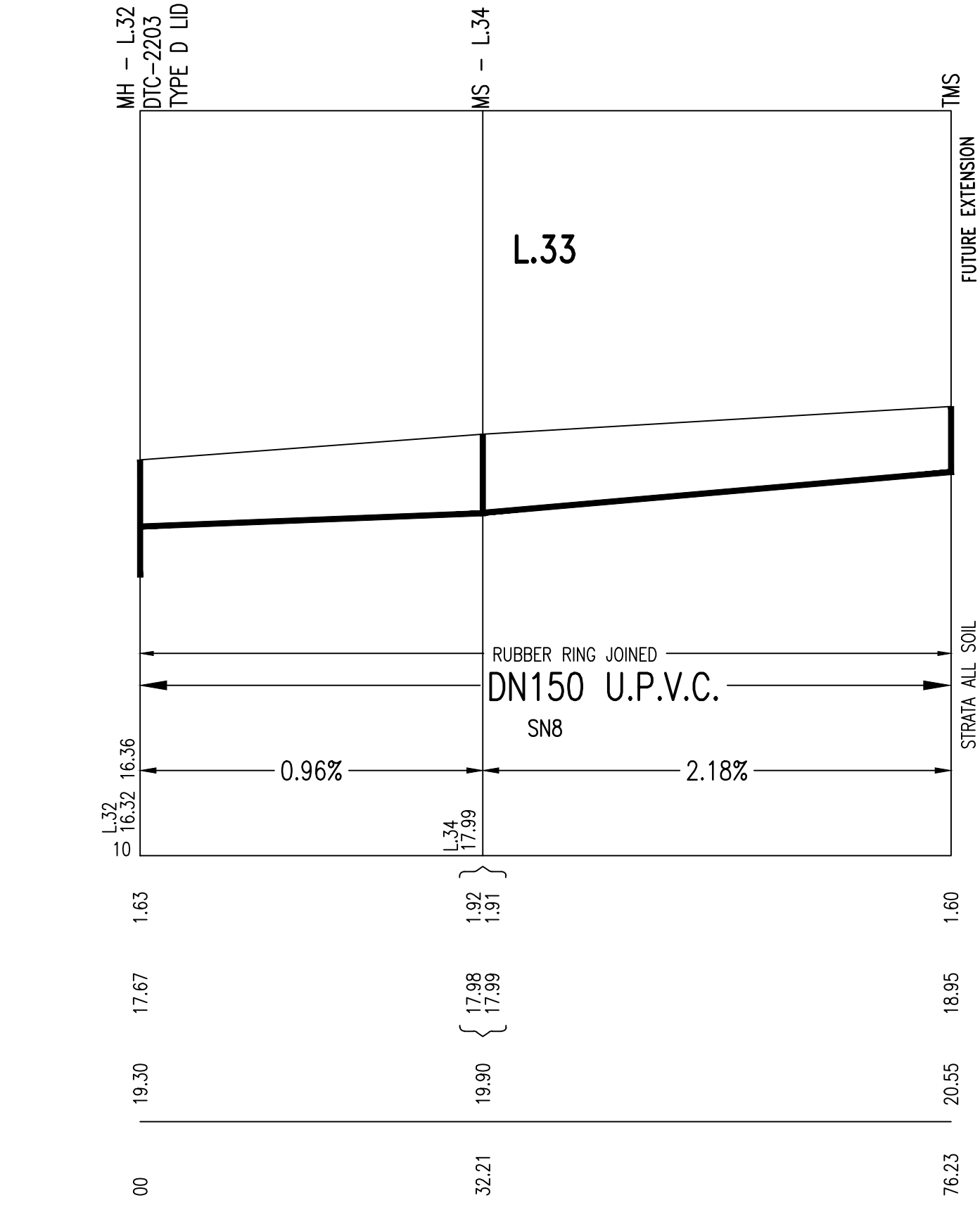
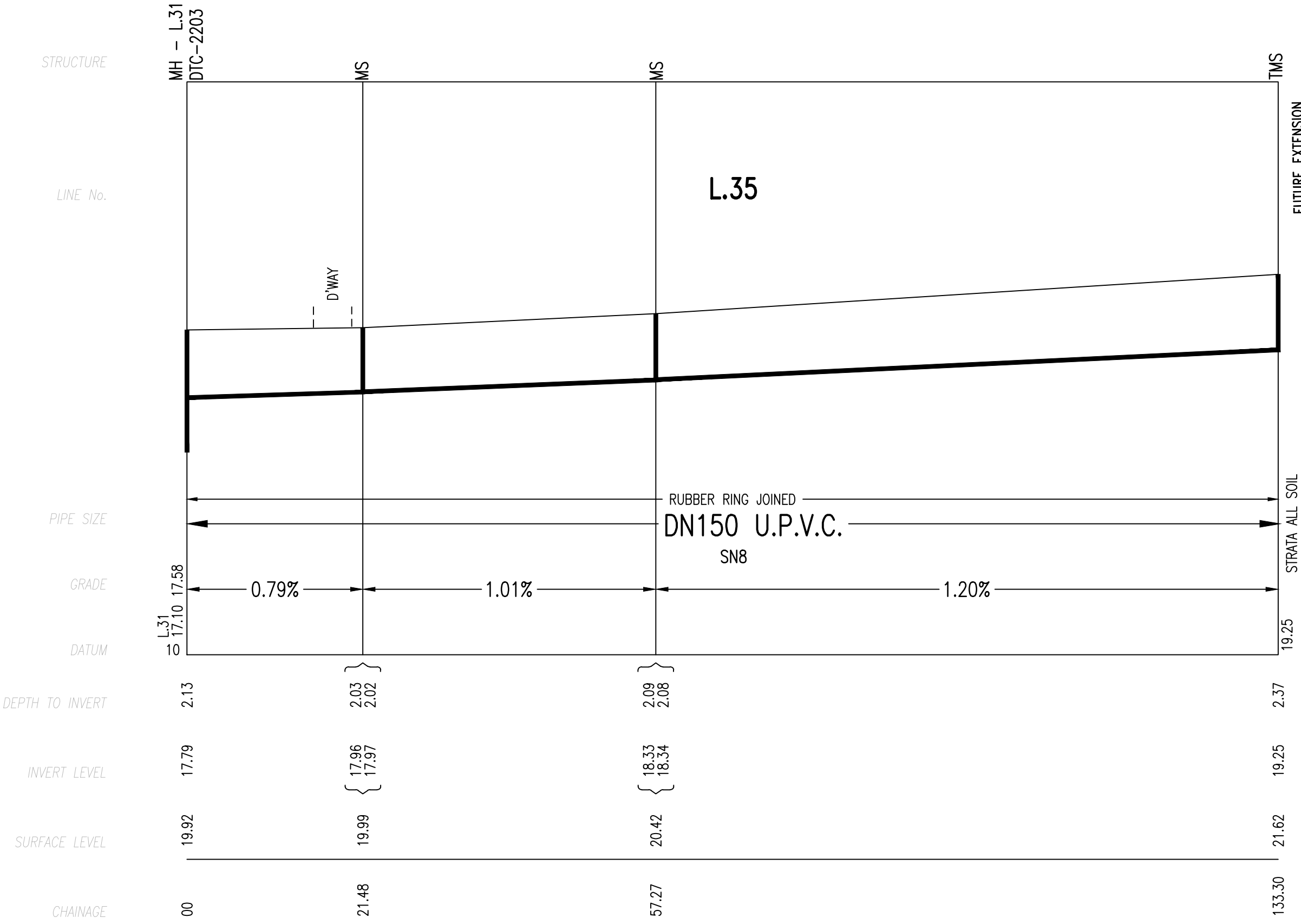
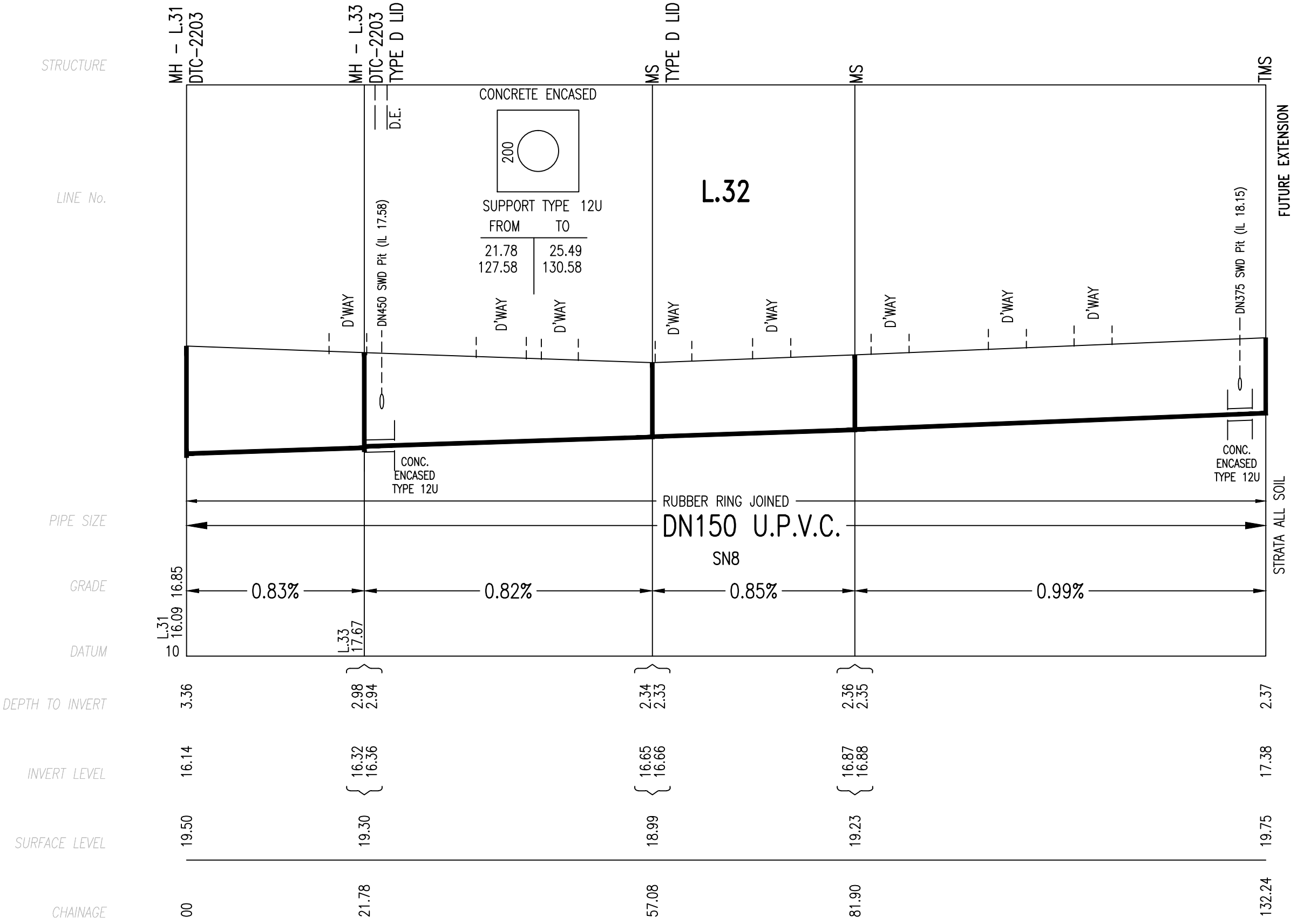


WORK AS CONSTRUCTED CERTIFICATION		 SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD.	Case No. 161560WW	SHT 12 OF 18 SHTS.
W.S.C.	QALCHEK PTY LTD.		
CONSTRUCTOR	C.J., DOYLE PTY LTD		
COMPLETED	09.05.18.		
W.A.C. PREPARED	15.05.18		
DESIGNER	QALCHEK PTY LTD.	SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1	



O	WORK AS CONSTRUCTED	R.B.	15.05.18
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No.	AMENDMENT DESCRIPTION	BY	DATE

WORK AS CONSTRUCTED CERTIFICATION		<div>Sydney WATER</div>		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD.	<div>Case No. 161560WW</div>	<div>SHT 13 OF 18 SHTS</div>	<div>SYDNEY WATER CORPORATION</div> <div>FOR DETAILS OF SERVICES SEE SHEET 1</div>	
W.S.C.	QALCHEK PTY LTD.				
CONSTRUCTOR	C.J. DOYLE PTY LTD.				
COMPLETED	09.05.18				
W.A.C. PREPARED	15.05.18				
DESIGNER	QALCHEK PTY LTD.				
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS					



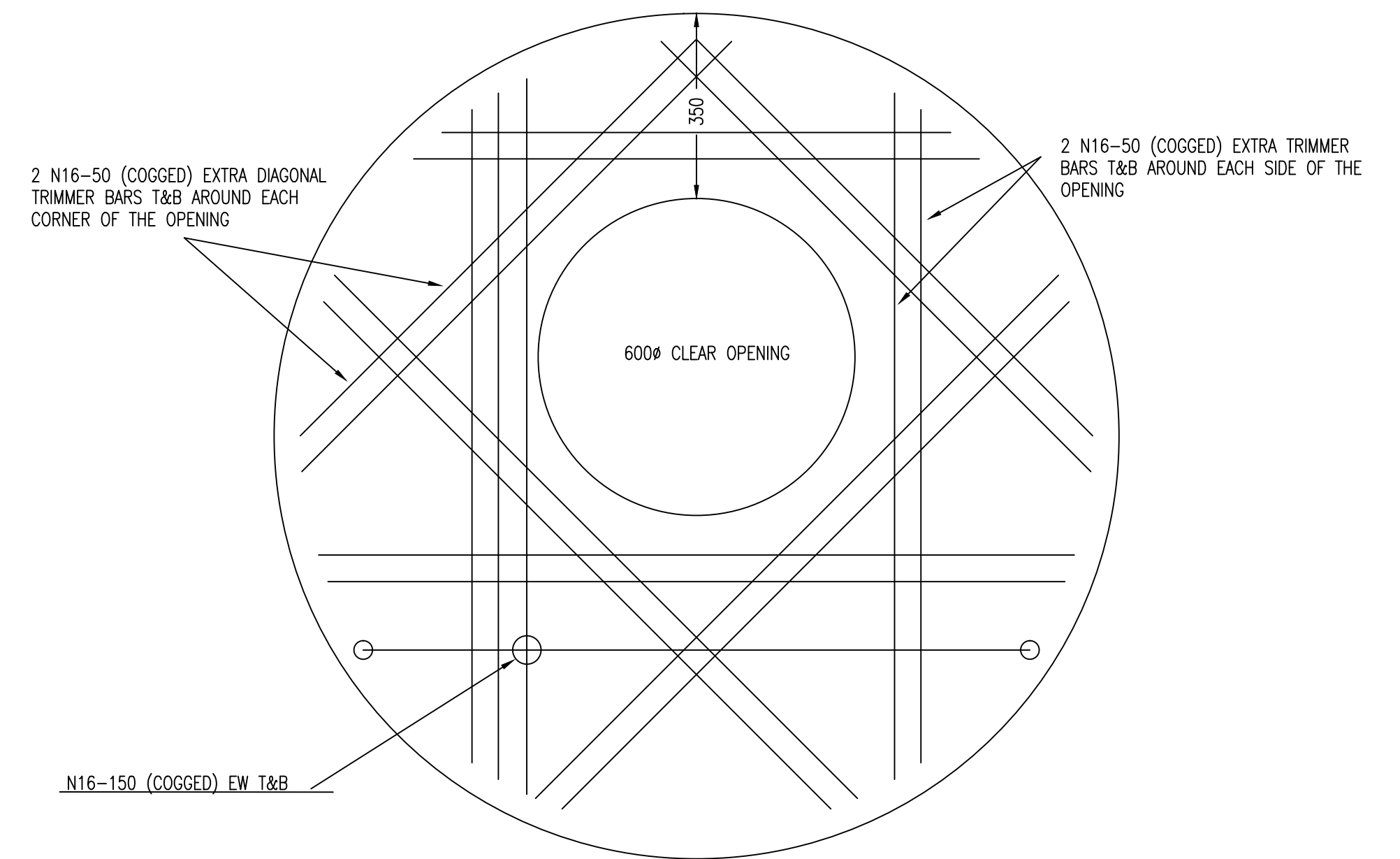
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WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION		
DEVELOPER	WOORONG PARK PTY LTD	Sydney WATER	Case No. 161560WW	
W.S.C.	QALCHEK PTY LTD			
CONSTRUCTOR	C.J. DOYLE PTY LTD	SHT 14 OF 18 SHTS.		
COMPLETED	09.05.18			
W.A.C. PREPARED	15.05.18	SYDNEY WATER CORPORATION		
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		

CONSTRUCTION NOTES (APPLYING FOR SHEET 15)

1. MINIMUM ALLOWABLE BEARING PRESSURE FOR MH'S WAS 100KPa (FOR 0-6m DEEP MH) AND 180KPa (FOR 6-10m DEEP MH).
2. ANY OVER-EXCAVATION OR VOIDS OF FOUNDATION MATERIALS WAS FILLED WITH NORMAL CLASS N15 MASS CONCRETE TO AS 1379.
3. CONCRETE EXPOSED WAS TO CLASSIFICATION D (AS 3735)
4. FORMWORK AND CONCRETE FINISHES WAS IN ACCORDANCE WITH AS 3610 SURFACE EXPOSED TO VIEW - CLASS 2, SURFACE NOT EXPOSED TO VIEW - CLASS 4
5. CONCRETE HAS ACHIEVED A MINIMUM COMPRESSIVE STRENGTH OF 25MPa PRIOR TO STRIPPING OF FORMWORK
6. CONCRETE DIMENSIONS SHOWN DO NOT INCLUDE THICKNESS OF APPLIED FINISHES
7. MINIMUM CLEAR COVER TO REINFORCEMENT WAS 75mm UNO
8. CONCRETE (INCL. FOR ROOF SLAB) WAS SPECIAL CLASS SCC40 TO WSA 114-2002
9. CURING OF ALL CONCRETE WAS ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS. POLYETHYLENE SHEETING OR WET HESSIAN WAS USED. POLYETHYLENE AND HESSIAN WAS 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 MANUFACTURER'S REQUIREMENTS FOR A PERIOD OF 14 DAYS.
10. CONCRETE HAS ACHIEVED A MINIMUM COMPRESSIVE STRENGTH OF 32MPa PRIOR TO BACKFILLING AND TESTING OF STRUCTURES. BACKFILL WAS PLACED AND COMPACTED EVENLY AROUND MAINTENANCE HOLES IN LAYERS NOT EXCEEDING 300mm LOOSE THICKNESS.
11. STEEL REINFORCING MATERIAL WAS TO AS/ZS 4671; SHAPE = D, STRENGTH GRADE = 500MPa, DUCTILITY CLASS = N
12. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION
13. SPLICE REINFORCEMENT ONLY AT LOCATIONS SHOWN ON DRAWINGS. LAP LENGTHS TO COMPLY WITH THE FOLLOWING UNO:
N12 - 400 LAP
N16 - 500 LAP
N20 - 650 LAP
14. WELDING OF REINFORCEMENT WAS NOT PERMITTED.
15. ALL DIMENSIONS IN mm UNO
16. DIMENSIONS WAS NOT SCALED OFF THE PLAN.

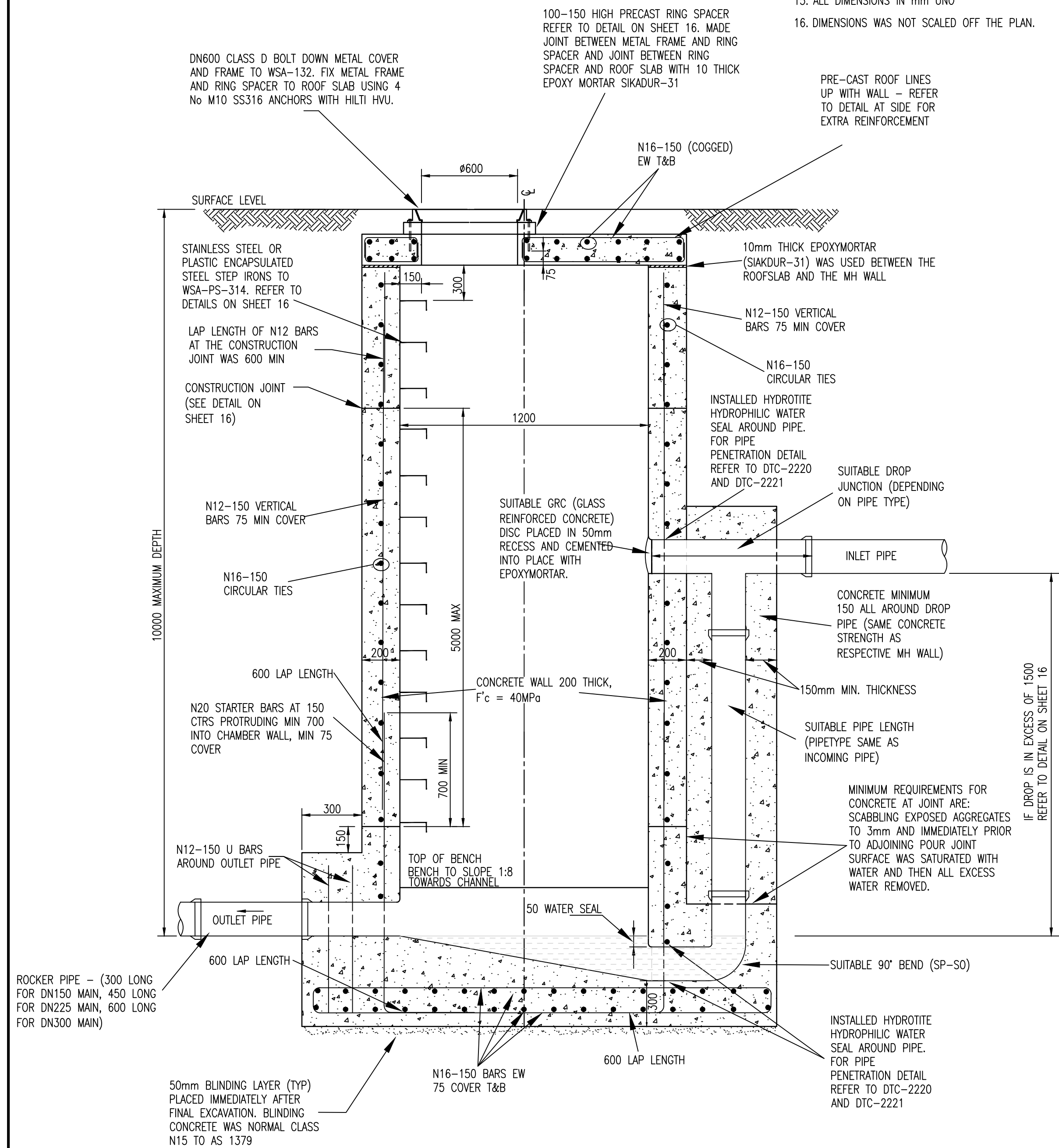
DEVELOPER CONTRACT PLAN
WORK-AS-CONSTRUCTED



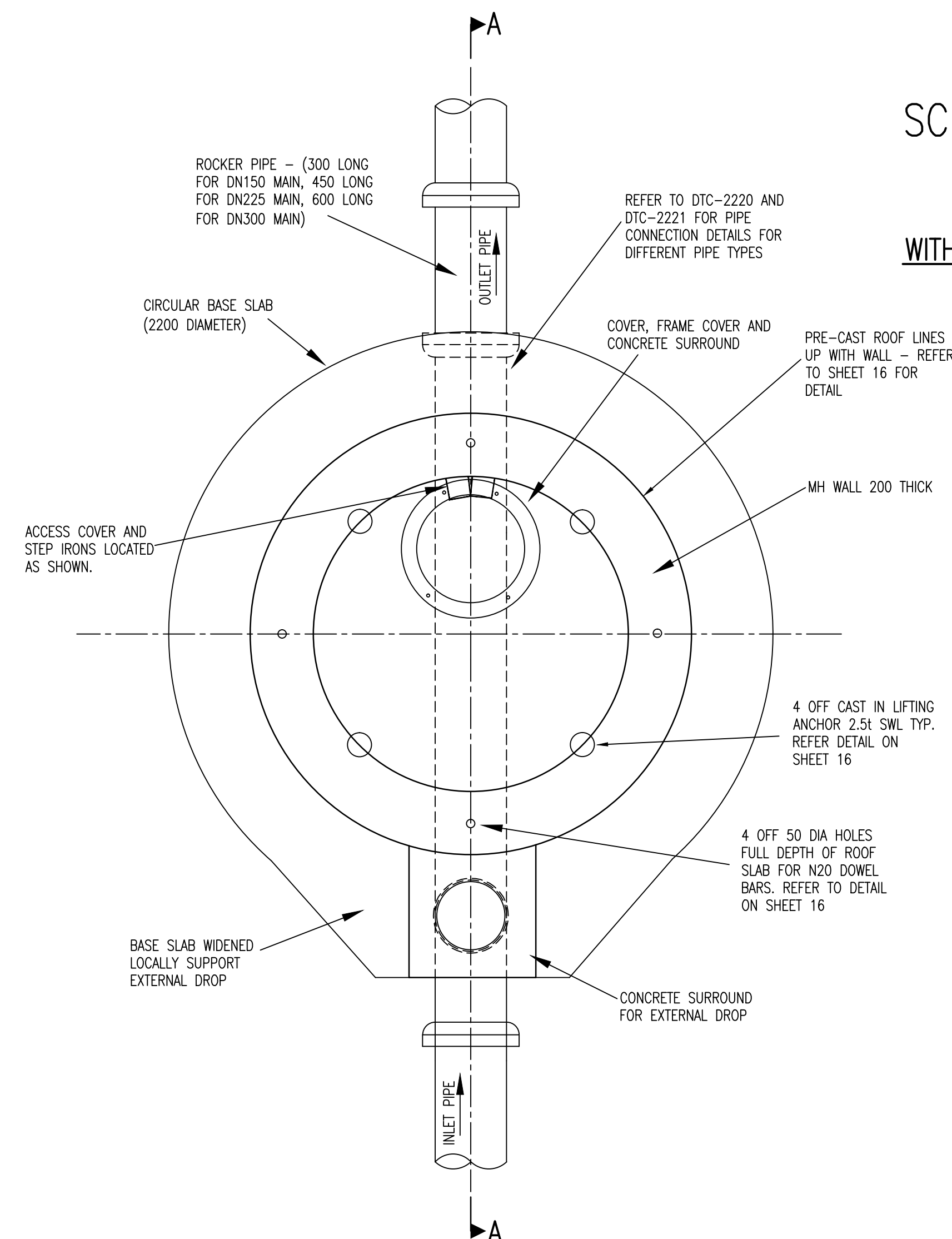
- NOTES:
1. COVER FOR REINFORCEMENT WAS 50mm TO ROOFSLAB OUTSIDE AND 75mm TO OPENING
 2. CONCRETE WAS SPECIAL CLASS SCC40 TO WSA 114-2002

SCHEMATIC PLANVIEW OF CIRCULAR ROOF SLAB
REINFORCEMENT OF ROOFSLAB
APPLICABLE FOR ALL WATERSEALED MH'S
WITH AN INTERNAL DIAMETER OF 1200 AND A WALL THICKNESS OF 200

(NOT TO SCALE)
DIMENSIONS IN mm




SECTION A-A
(NOT TO SCALE)
DIMENSIONS IN mm

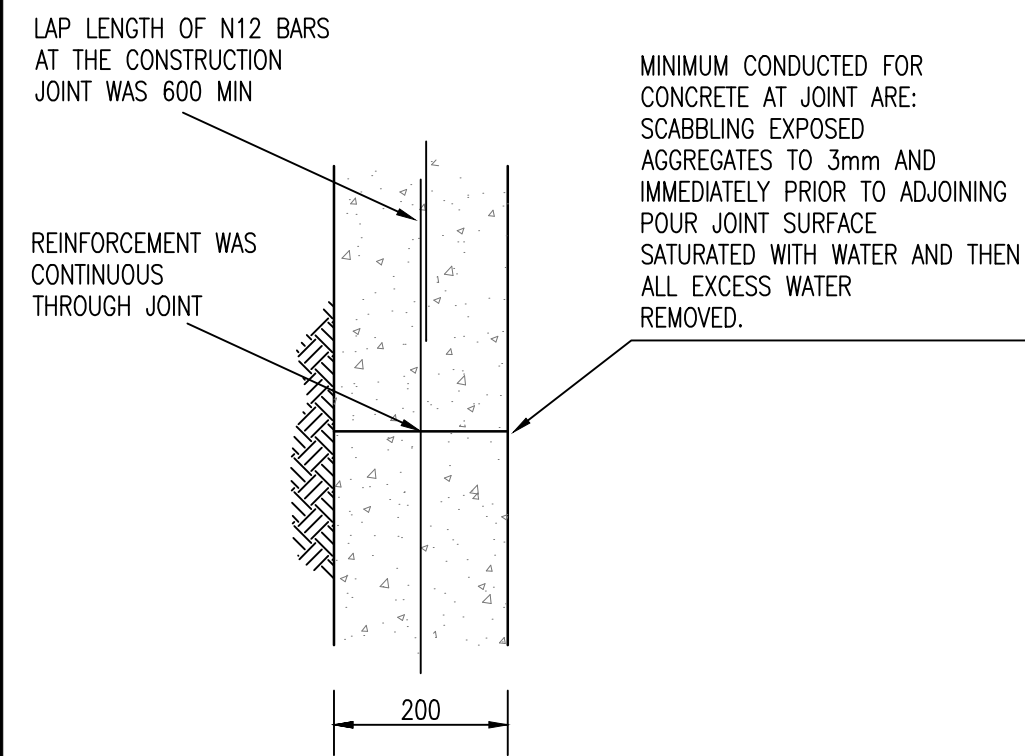


MAINTENANCE HOLE PLAN
(L.1 CH 65.21 & L.2 CH 18.13)

(NOT TO SCALE)
DIMENSIONS IN mm

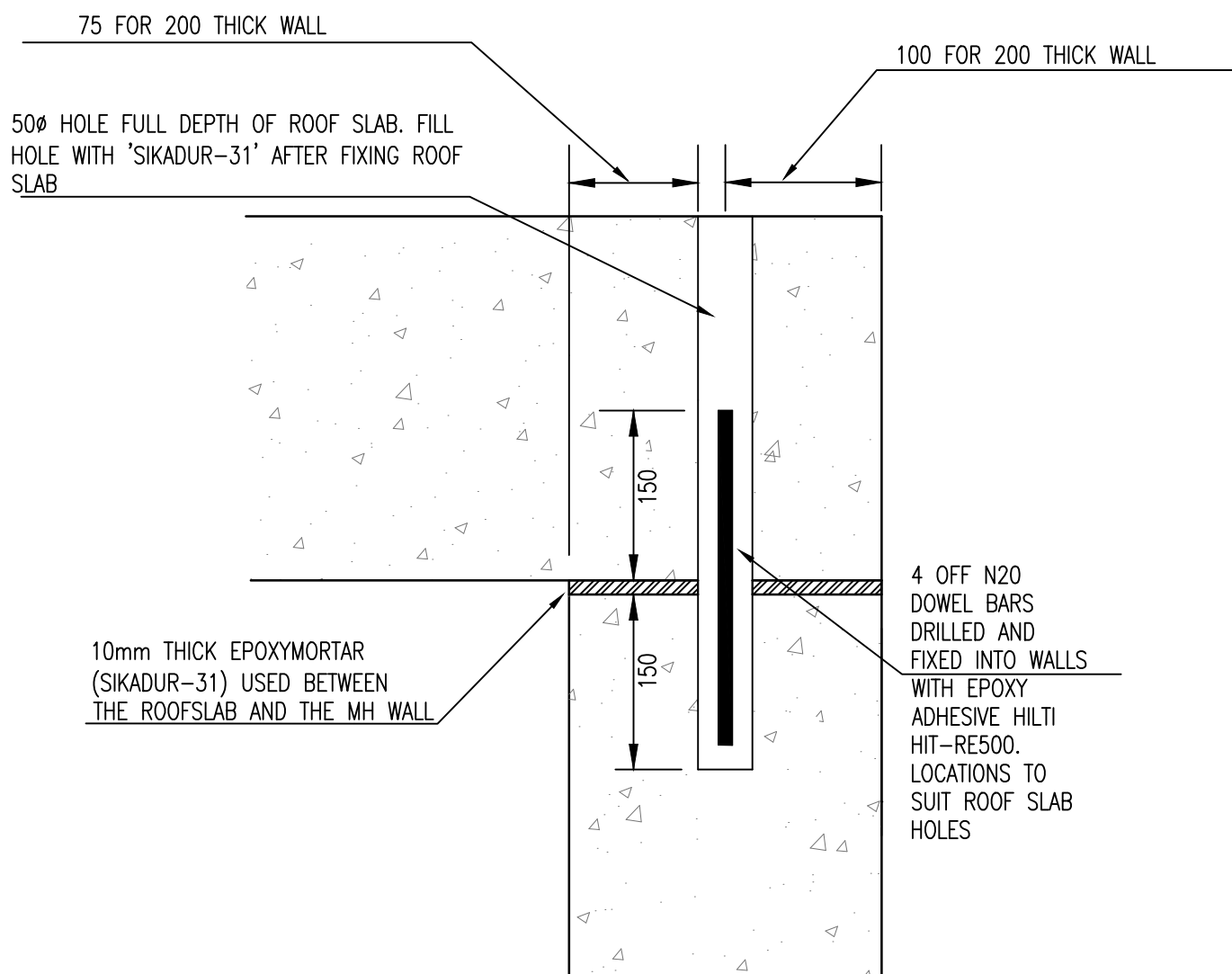
O	WORK AS CONSTRUCTED	R.B.	15.05.18
E	CHANGES ON L.31, 36, AND 37 DUE TO EXISTING SEWER LAID UNDER	F.J.	13.09.17
D	ISSUE FOR APPROVAL	J.F.	24.05.17
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B	AMENDMENTS AS PER CLIENT REQUEST	F.J.	08.03.17
A	MASTERPLAN FOR CLIENT REVIEW	F.J.	03.03.17
No.	AMENDMENT DESCRIPTION	BY	DATE

WORK AS CONSTRUCTED CERTIFICATION		 SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Case No. 161560WW	
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE PTY LTD		
COMPLETED	09.05.18		
W.A.C. PREPARED	15.05.18	SHT	15 OF 18 SHTS.
DESIGNER QALCHEK PTY LTD I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	



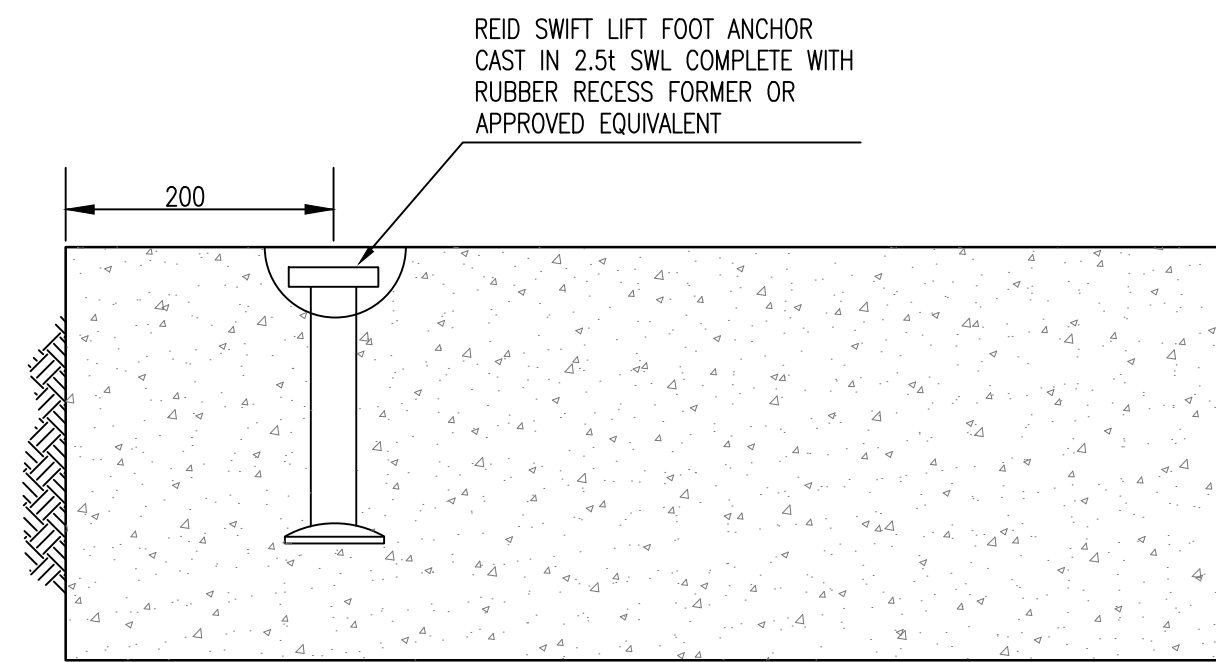
CONSTRUCTION JOINT DETAIL
(AT MAX 5.0m SPACING)
300 THICK WALL SHOWN
FOR 200 THICK WALL ONLY
ONE LAYER OF
REINFORCEMENT APPLIES

NOT TO SCALE
DIMENSIONS IN mm



ROOFSLAB-WALL CONNECTION
DETAIL

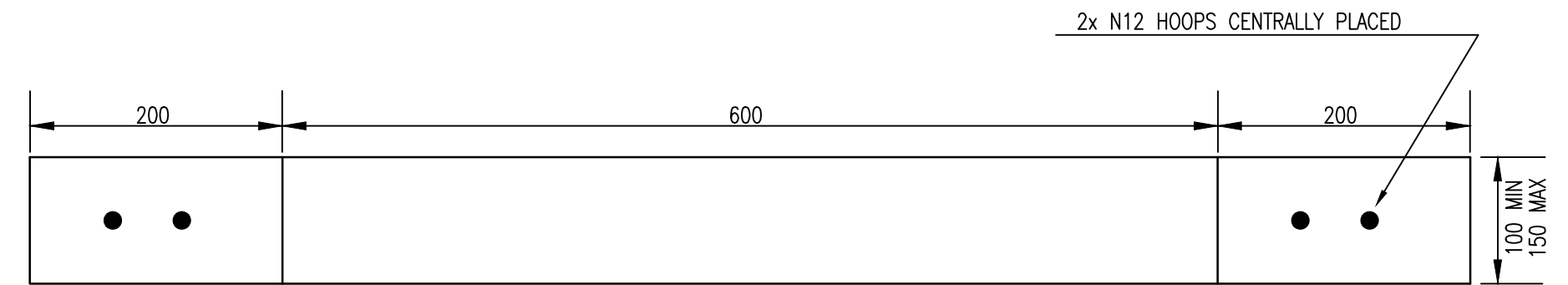
NOT TO SCALE
DIMENSIONS IN mm



DETAIL OF ANCHOR CAST INTO
ROOF SLAB

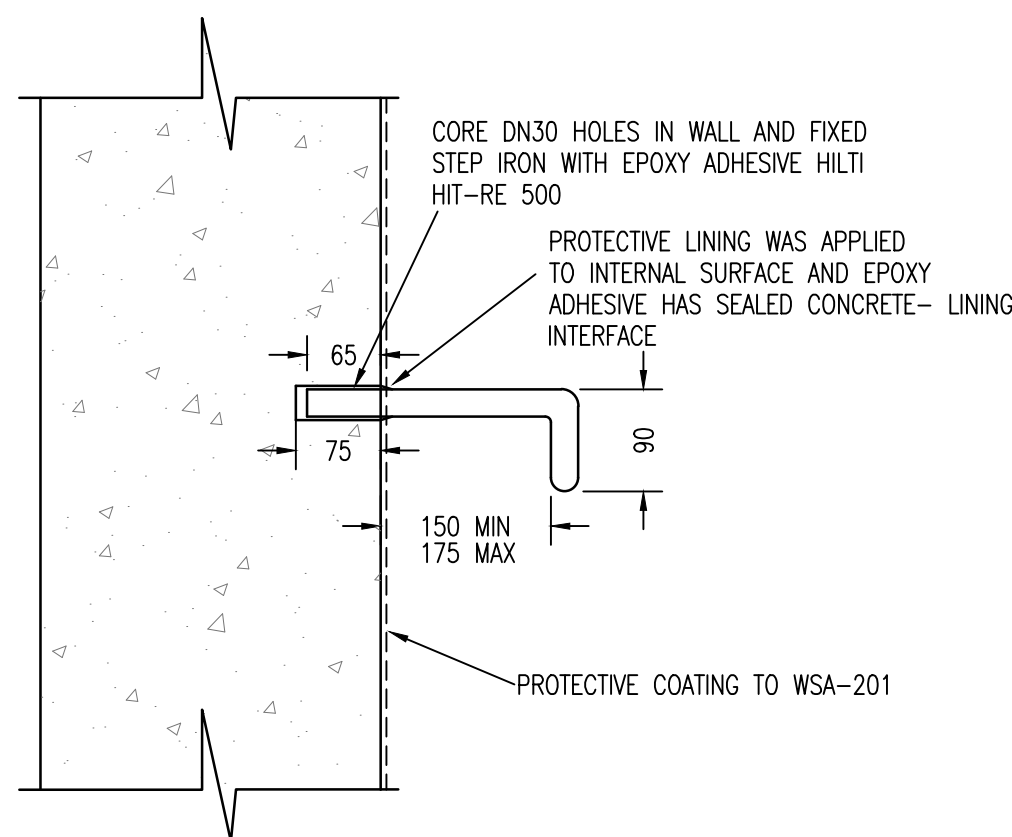
NOT TO SCALE
DIMENSIONS IN mm

- NOTES:
1. PRE CAST ROOFSLAB HAS MINIMUM STRENGTH OF 32MPa AT LIFTING
 2. SPREADER BARS WAS USED DURING LIFTING TO ENSURE VERTICAL LIFT FORCE



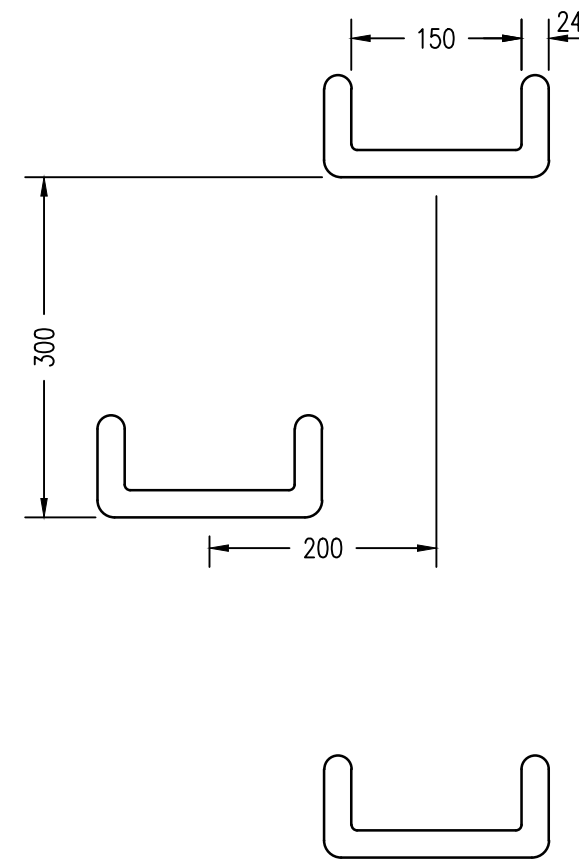
DETAIL OF PRE-CAST RING SPACER

NOT TO SCALE
DIMENSIONS IN mm



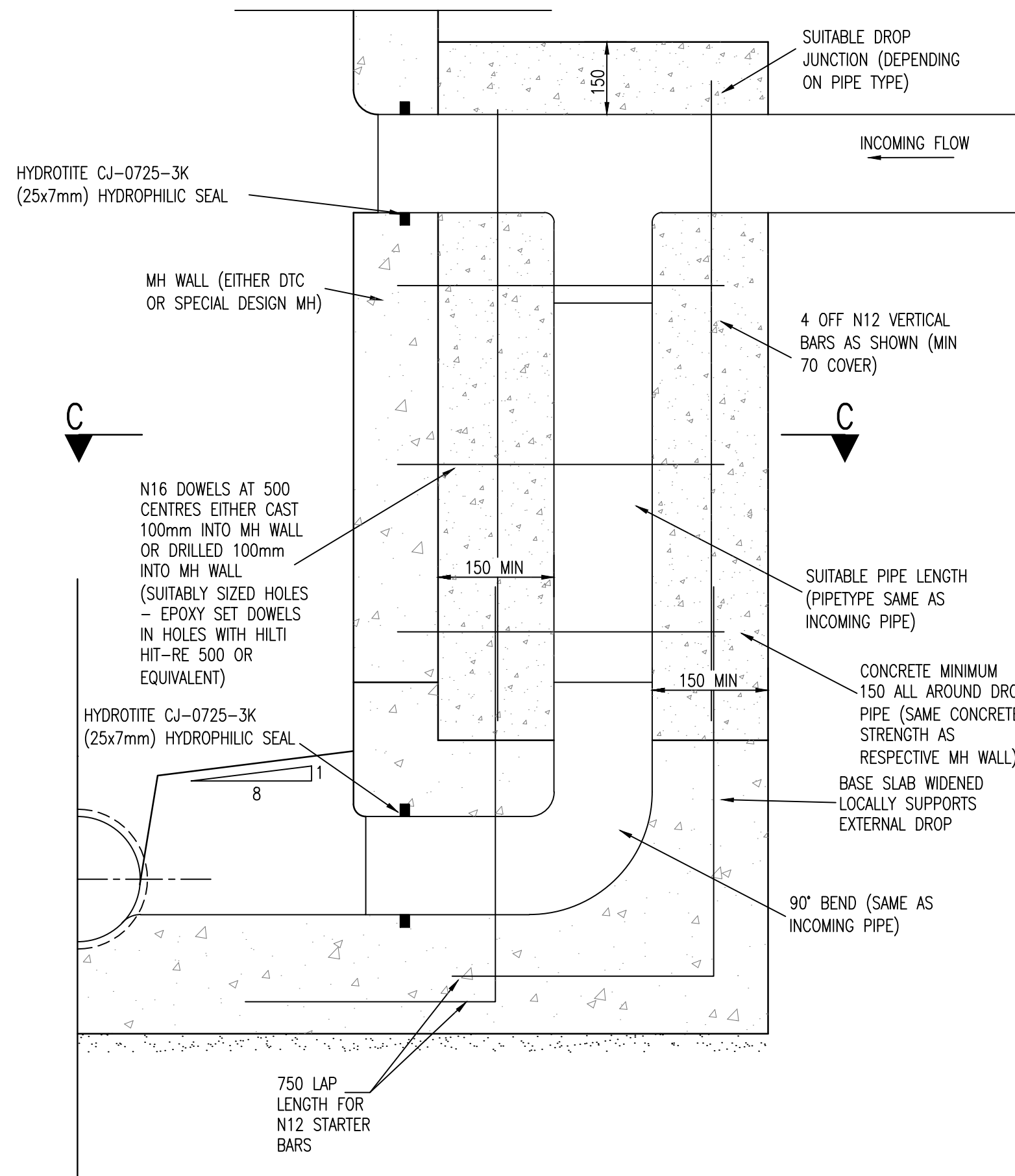
STEP IRON FIXING DETAIL

NOT TO SCALE
DIMENSIONS IN mm



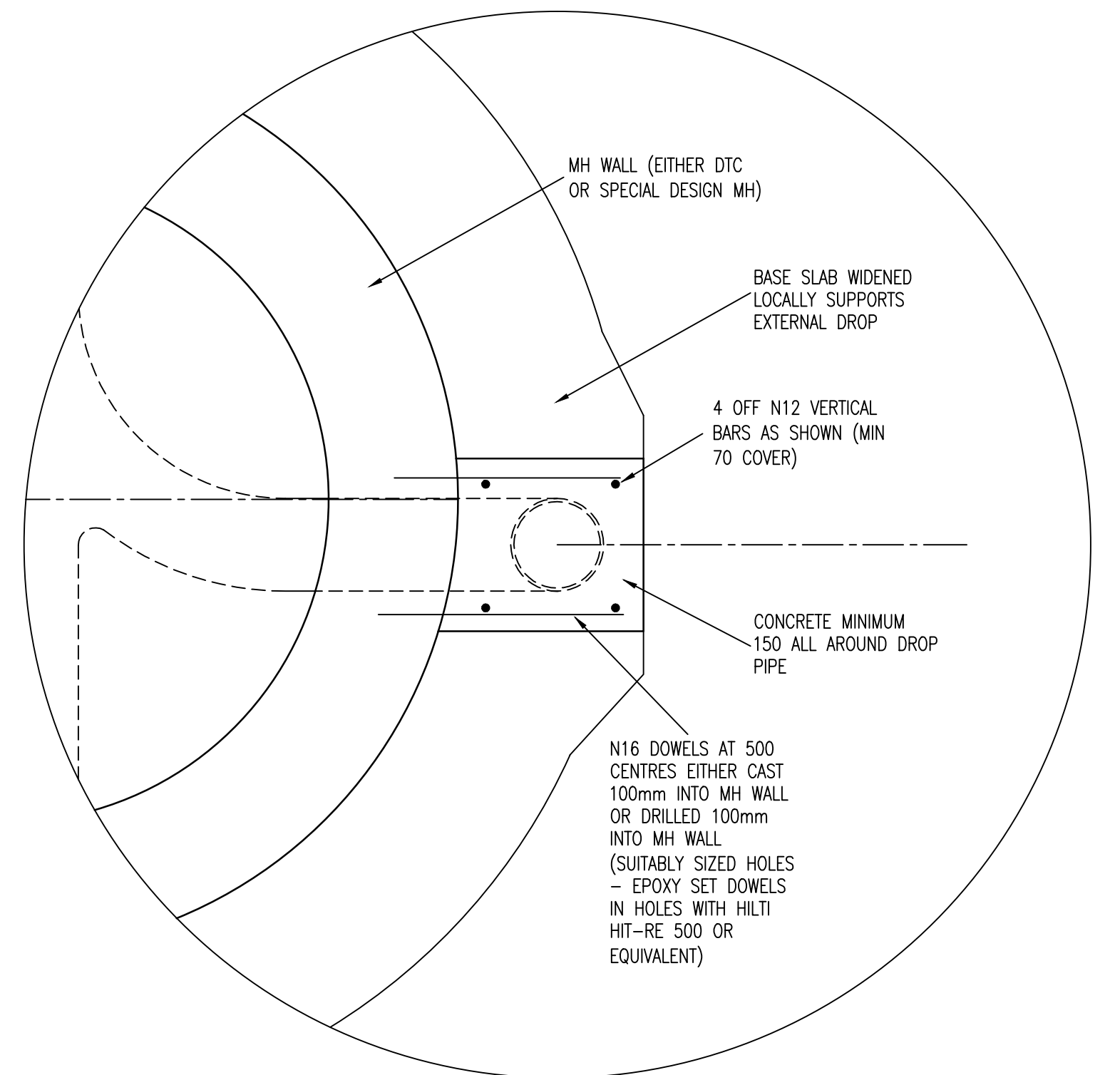
STEP IRON SETOUT DETAIL

NOT TO SCALE
DIMENSIONS IN mm



SCHEMATIC EXTERNAL DROP (DROPS IN EXCESS OF 1.5m)
REINFORCEMENT IN MH WALL AND BASE NOT SHOWN FOR CLARITY REASONS

NOT TO SCALE
DIMENSIONS IN mm



SECTION C-C
PLANVIEW OF MH SECTION WITH EXTERNAL DROP
SCHEMATIC ONLY

NOT TO SCALE
DIMENSIONS IN mm

0	WORK AS CONSTRUCTED	R.B.	15.05.18
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D	ISSUE FOR APPROVAL	J.F.	24.05.17
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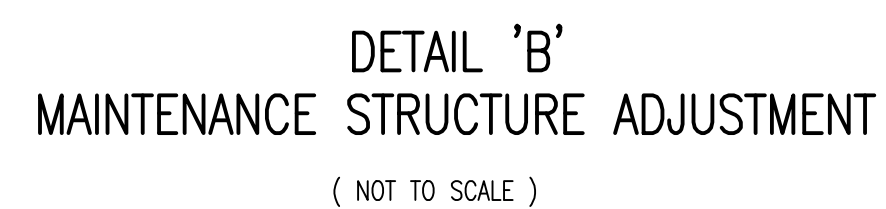
WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER		SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD.	Case No. 161560WWV	SHT 16 OF 18 SHTS.		
W.S.C.	QALCHEK PTY LTD.				
CONSTRUCTOR	C.J. DOYLE PTY LTD.				
COMPLETED	09.05.18				
W.A.C. PREPARED	15.05.18				
DESIGNER	QALCHEK PTY LTD.	SYDNEY WATER CORPORATION			
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1			




OVERALL DEVELOPMENT AREA & ORIGIN OF BENCHMARK SKETCH
(NOT TO SCALE)

0	WORK AS CONSTRUCTED	R.B.	15.05.18
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D	ISSUE FOR APPROVAL	J.F.	24.05.17
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A	MASTERPLAN FOR CLIENT REVIEW	F.J.	03.03.17
No.	AMENDMENT DESCRIPTION	BY	DATE

WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER SYDNEY WATER CORPORATION	
DEVELOPER	WOORONG PARK PTY LTD	Case No. 161560WW SHT 17 OF 18 SHTS.	
W.S.C.	QALCHEK PTY LTD		
CONSTRUCTOR	C.J. DOYLE PTY LTD	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
COMPLETED	09.05.18		
W.A.C. PREPARED	15.05.18		
DESIGNER	QALCHEK 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	WOORONG PARK PTY LTD.	Case No. 161560WWW	SHT 18 of 18 SHTS.
W.S.C.	QALCHEK PTY LTD.		
CONSTRUCTOR	C.J. DOYLE PTY LTD.		
COMPLETED	09.05.18		
W.A.C. PREPARED	15.05.18	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
DESIGNER - QALCHEK PTY LTD. I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORKS AS CONSTRUCTED DRAWINGS			