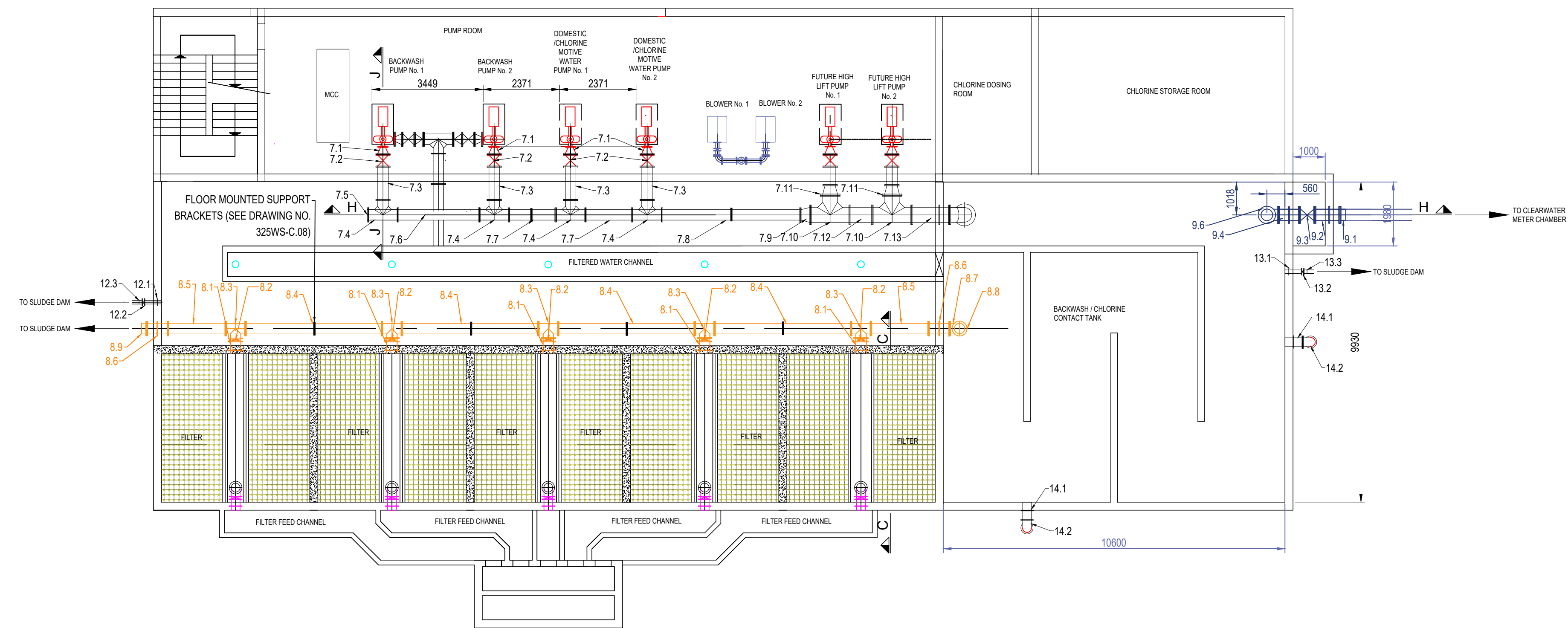
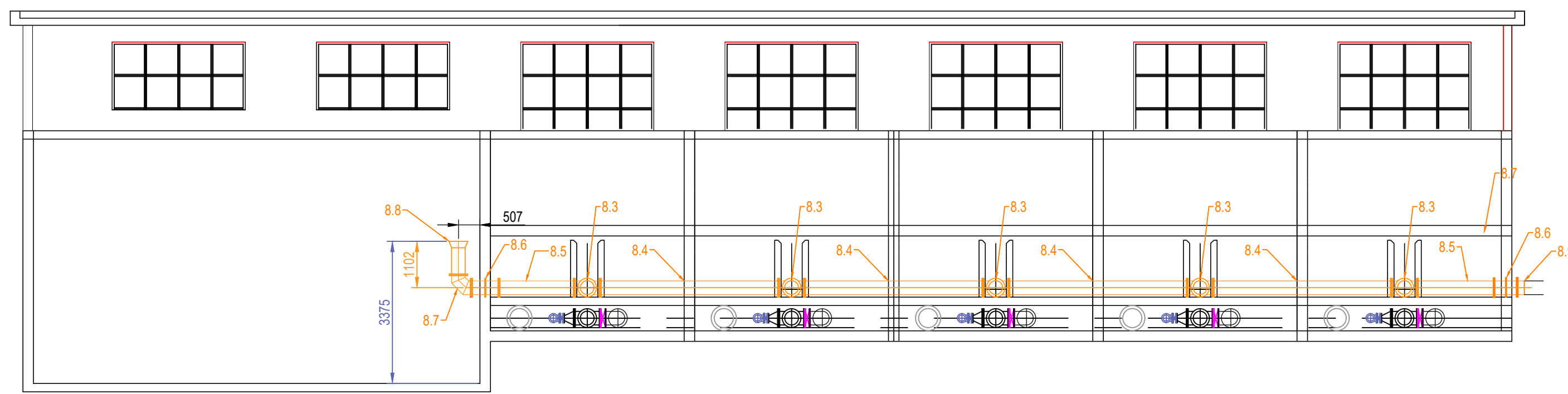




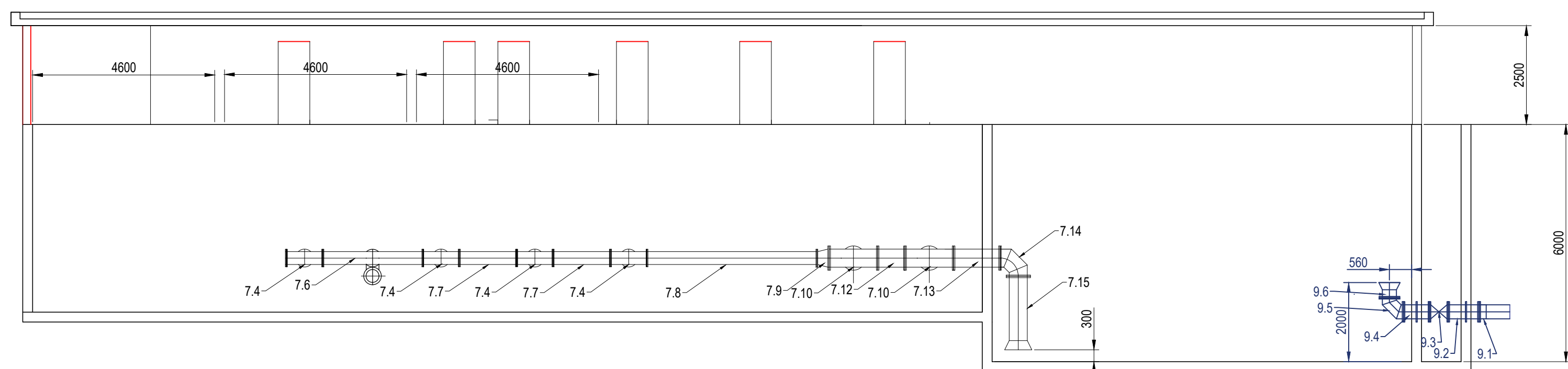
PLAN VIEW 2 OF TREATMENT WORKS BUILDING PIPEWORK

SCALE 1:100



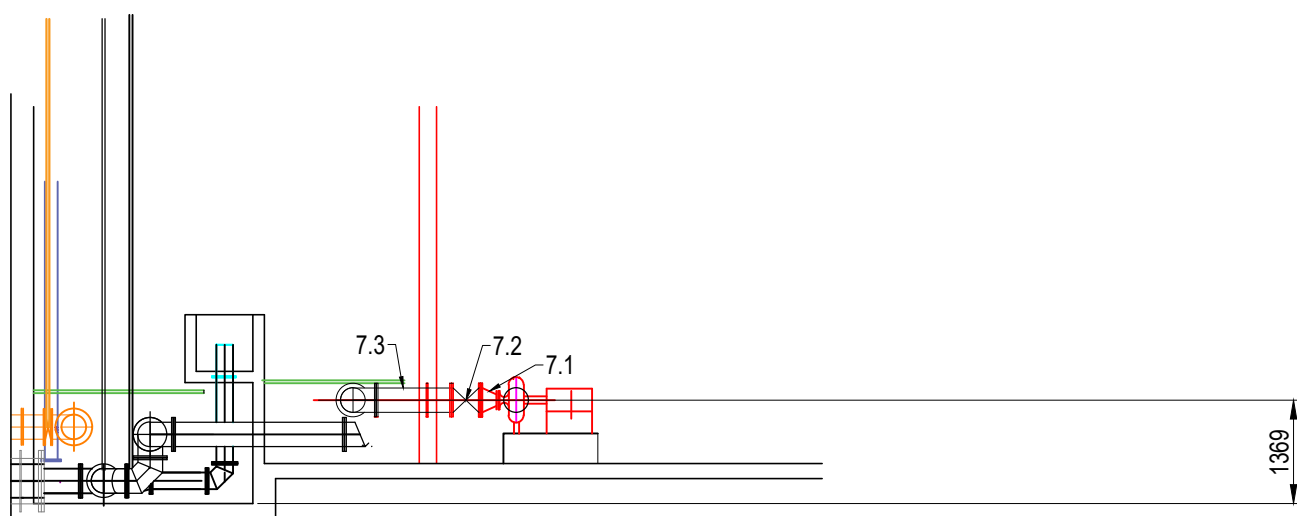
SECTION K-K

SCALE 1:100



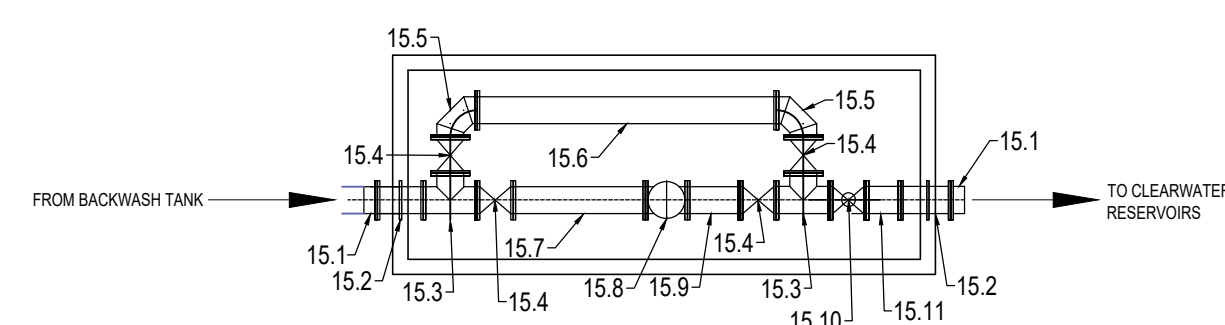
SECTION H-H

SCALE 1:100



SECTION J-J

SCALE 1:100



PLAN OF CLEARWATER METER CHAMBER PIPEWORK

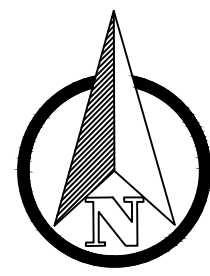
SCALE 1:100

ITEM	DESCRIPTION	QUANTITY	DIMENSIONS
FILTER BACKWASH OUTLET PIPEWORK (SEE PLAN VIEW 2 AND SECTION K-K)			
8.1	300mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 112mm FROM PLAIN END, LENGTH = 392mm F/F	5	
8.2	300mm Ø MS KNIFE GATE VALVE (WAFER TYPE), WITH NON-RISING SPINDLE VALVES TO BE SUPPLIED WITH 4600mm LONG EXTENDED SPINDLES AND PEDESTALS	5	
8.3	300mm Ø FLANGED EQUAL TEE	5	
8.4	300mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 4230mm F/F	4	
8.5	300mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 1784mm F/F	2	
8.6	300mm Ø MS STRAIGHT PIPE FLANGED BOTH ENDS WITH PUDDLE FLANGE WELDED CENTRALLY, LENGTH = 650mm F/F	2	
8.7	300mm Ø MS 90 DEG SEGMENTED FLANGED BEND	1	
8.8	300mm Ø MS STRAIGHT PIPE FLANGED ONE END, BELLMOUTH OTHER END	1	
8.9	300mm Ø VIKING JOHNSON (OR SIMILAR APPROVED) FLANGE ADAPTOR	1	
BACKWASH TANK OUTLET PIPEWORK (SEE PLAN VIEW 2 AND SECTION H-H)			
9.1	350mm Ø VIKING JOHNSON (OR SIMILAR APPROVED) FLANGE ADAPTOR	1	
9.2	350mm Ø MS STRAIGHT PIPE FLANGED BOTH ENDS WITH PUDDLE FLANGE WELDED APPROX. 325mm FROM ONE END, LENGTH = 770mm F/F	1	
9.3	350mm Ø CLASS 16 FLANGED RESILIENT SEAL GATE VALVE (AVK SERIES 43/60 OR SIMILAR APPROVED) WITH NON-RISING SPINDLE	1	
9.4	350mm Ø MS STRAIGHT PIPE FLANGED BOTH ENDS WITH PUDDLE FLANGE WELDED CENTRALLY, LENGTH = 650mm F/F	1	
9.5	350mm Ø MS 90 DEG SEGMENTED FLANGED BEND	1	
9.6	350mm Ø MS STRAIGHT PIPE FLANGED ONE END, BELLMOUTH OTHER END	1	

ITEM	DESCRIPTION	QUANTITY	DIMENSIONS
BACKWASH SUCTION PIPEWORK (SEE PLAN VIEW 2, SECTION H-H AND SECTION J-J)			
7.1	300 x 150mm Ø MS FLANGED STEEL REDUCER	4	
7.2	300mm Ø CLASS 16 FLANGED RESILIENT SEAL GATE VALVE (AVK SERIES 43/60 OR SIMILAR APPROVED) WITH NON-RISING SPINDLE	4	
7.3	300mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 1025mm F/F	4	
7.4	300mm Ø MS FLANGED EQUAL TEE	4	
7.5	300mm Ø MS BLANK FLANGE	1	
7.6	300mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 2519mm F/F	1	
7.7	300mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 1441mm F/F	2	
7.8	300mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 4288mm F/F	1	
7.9	450 x 300mm Ø MS FLANGED STEEL REDUCER	1	
7.10	450mm Ø MS FLANGED SEGMENTED EQUAL TEE	2	
7.11	450mm Ø MS BLANK FLANGE	2	
7.12	450mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 690mm F/F	1	
7.13	450mm Ø STRAIGHT PIPE FLANGED BOTH ENDS, WITH PUDDLE FLANGE WELDED APPROX. 320mm FROM ONE END, LENGTH = 1189mm F/F	1	
7.14	450mm Ø 90 DEG FLANGED SEGMENTED BEND	1	
7.15	450mm Ø STRAIGHT PIPE FLANGED ONE END, BELLMOUTH OTHER END	1	

ITEM	DESCRIPTION	QUANTITY	DIMENSIONS
PIPE GALLERY DRAIN PIPEWORK (SEE PLAN VIEW 2)			
12.1	100mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 125mm FROM PLAIN END, LENGTH = 525mm F/F	1	
12.2	100mm Ø WAFER SINGLE DOOR CHECK VALVE (AVK IPV SERIES 6143 OR SIMILAR APPROVED)	1	
12.3	100mm Ø VIKING JOHNSON (OR SIMILAR APPROVED) FLANGE ADAPTOR	1	
BACKWASH TANK SCOUR PIPEWORK (SEE PLAN VIEW 2)			
13.1	100mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 125mm FROM PLAIN END, LENGTH = 525mm F/F	1	
13.2	100mm Ø CLASS 16 FLANGED RESILIENT SEAL GATE VALVE (AVK SERIES 43/60 OR SIMILAR APPROVED) WITH NON-RISING SPINDLE	1	
13.3	100mm Ø VIKING JOHNSON (OR SIMILAR APPROVED) FLANGE ADAPTOR	1	
BACKWASH TANK AIR VENTS (SEE PLAN VIEW 2)			
14.1	250mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED CENTRALLY, LENGTH = 550mm F/F	2	
14.2	250mm Ø MS 90 DEG FLANGED BEND WITH MESH BOLTED ONTO OPEN END	2	

ITEM	DESCRIPTION	QUANTITY	DIMENSIONS
CLEARWATER METER CHAMBER PIPEWORK (SEE PLAN VIEW)			
15.1	350mm Ø VIKING JOHNSON (OR SIMILAR APPROVED) FLANGE ADAPTOR	2	
15.2	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, WITH PUDDLE FLANGE WELDED 300mm FROM ONE END, LENGTH = 660mm F/F	2	
15.3	350mm Ø MS FLANGED TEE	2	
15.4	350mm Ø CLASS 16 FLANGED RESILIENT SEAL GATE VALVE (AVK SERIES 43/60 OR SIMILAR APPROVED) WITH NON-RISING SPINDLE	4	
15.5	350mm Ø MS 90 DEG BEND, FLANGED BOTH ENDS	2	
15.6	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 3950mm F/F	1	
15.7	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 1745mm F/F	1	
15.8	350mm Ø ELECTRO MAGNETIC FLOW METER FLANGED	1	
15.9	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 695mm F/F	1	
15.10	350mm Ø FLANGED RESILIENT SEAL GATE VALVE (AVK SERIES 43/60 OR SIMILAR APPROVED) WITH NON-RISING SPINDLE FITTED WITH ROTOK ACTUATOR	2	
15.11	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 449mm F/F	1	



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REFERENCE DRAWINGS

Issued For Information	JSM	31/10/23	A
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NKANGALA DISTRICT MUNICIPALITY

Project Title

WESTERN HIGHVELD WATER TREATMENT WORKS

Drawing Title

WTW PIPEWORK DETAILS - PLAN VIEW 2 AND CLEAR WATER METER CHAMBER

Scale	ON ORIGINAL PLAN
1:200	
DRAWN	AB
DESIGNED	CAW
BY :	DATE: 31/10/23
BY :	DATE:
CHECKED ON BEHALF OF HN CONSULTING ENGINEERS	DATE:
BY :	DATE:
BY :	DATE:

HN Drawing Number	Revision
325WS - C.04	A

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