

CONSULTANCY SERVICES TO CONDUCT SURVEYS AND DEVELOPMENT OF DESIGNS FOR KYUSO ROCK CATCHMENT WATER SUPPLY PROJECT IN KITUI COUNTY UNDER ENDING DROUGHT EMERGENCIES-CLIMATE PROOFED INFRASTRUCTURE IN ASAL (EDE-CPIRA) PROGRAMME



CONSULTANT:

DATE:





CONTRACT NO: WSTF/EU/RFP/09/2022-2023

TENDER DRAWINGS



KYUSO PROPOSED WATER SYSTEM





KYUSO ROCK CATCHMENT WATER SUPPLY PROJECT



KYUSO ROCK CATCHMENT WATER SUPPLY PROJECT

TENDER DOCUMENTS: BOOK OF DRAWINGS

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4.	KYUSO/ WATERLINES-KIMANGAO/03
5.	KYUSO/ WATERLINES-KIMANGAO/04
6.	KYUSO/ WATERLINES-KIMANGAO/05
7.	KYUSO/ WATERLINES-KIMANGAO/06
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16.	KYUSO/ WATERLINES-NGUNI/01





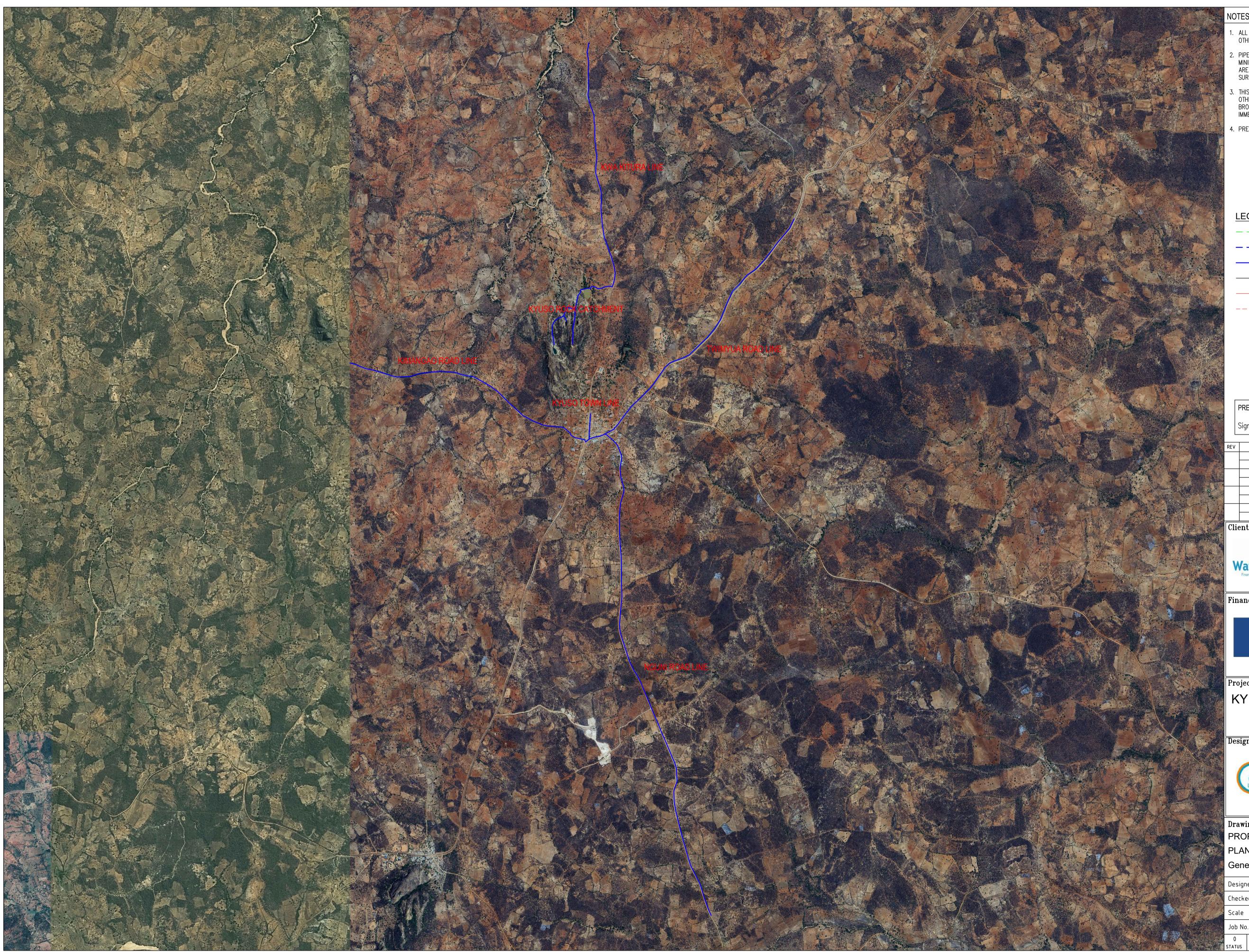
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- 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER RELATED DRAWINGS. ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 4. PRECISE ROUTES TO BE DETERMINED ON SITE.

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Drawing Title PROPOSED KYUSO WATER LINES PLAN									
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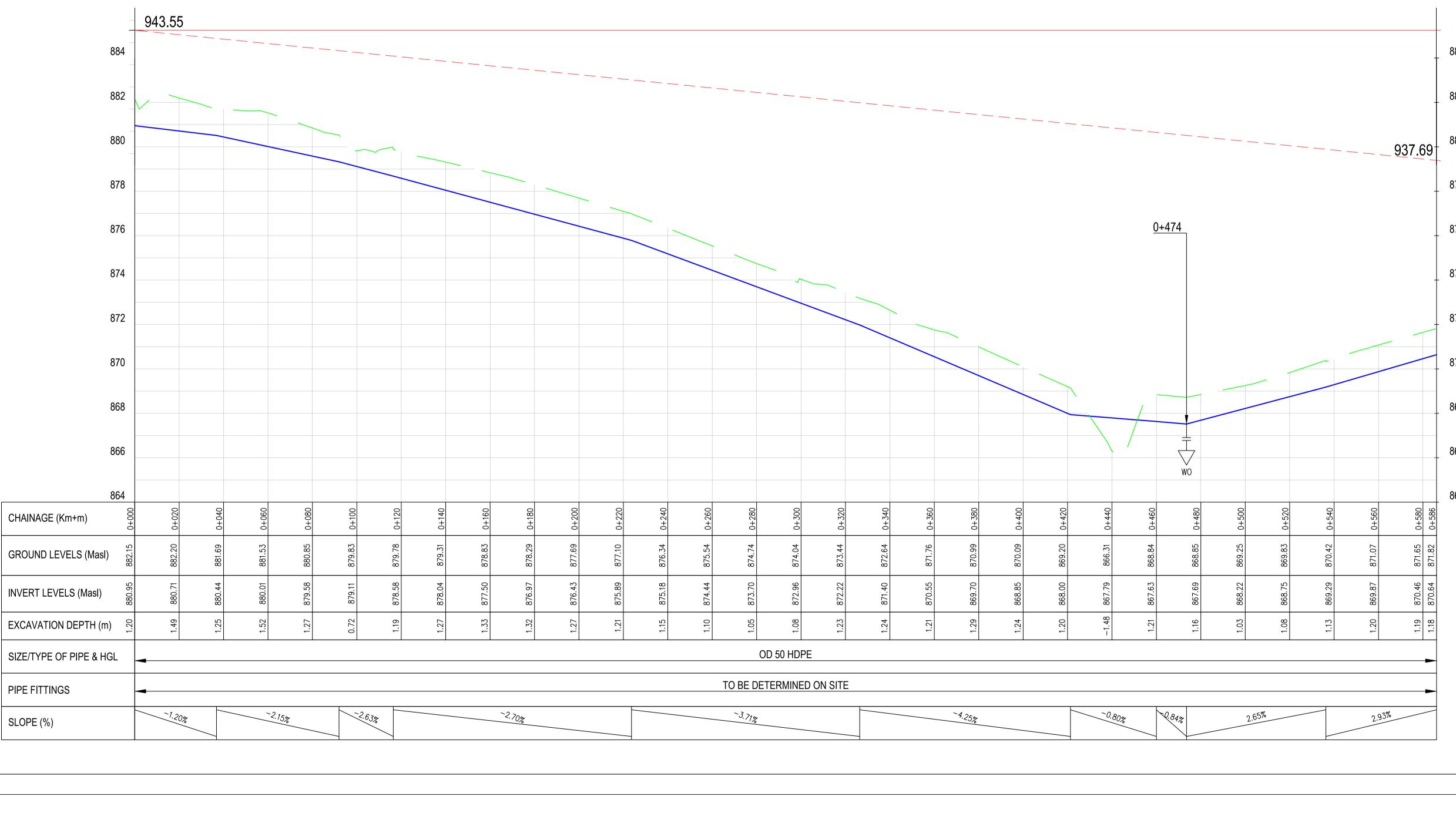
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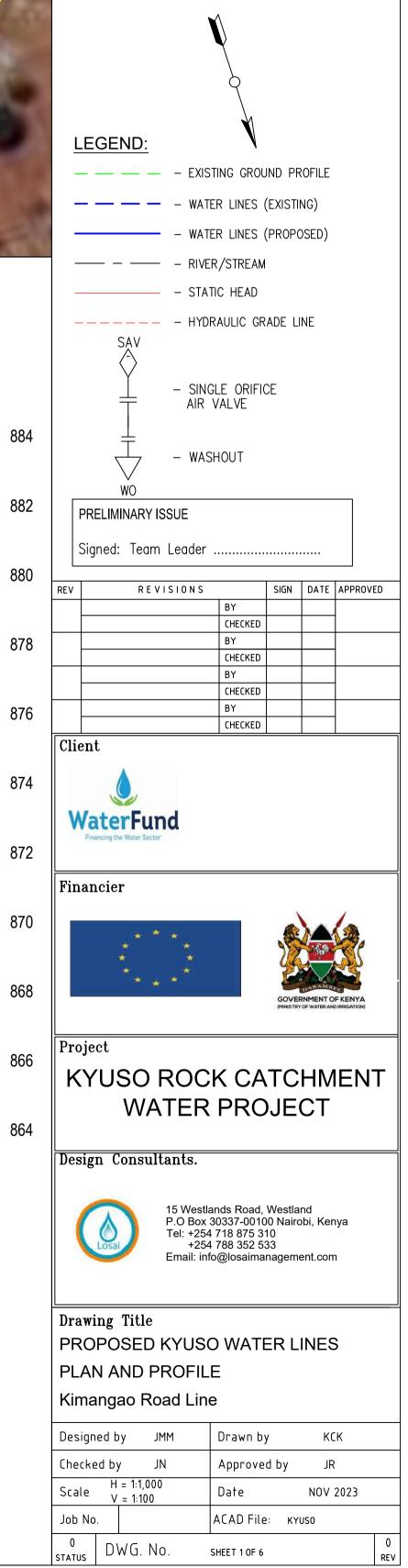
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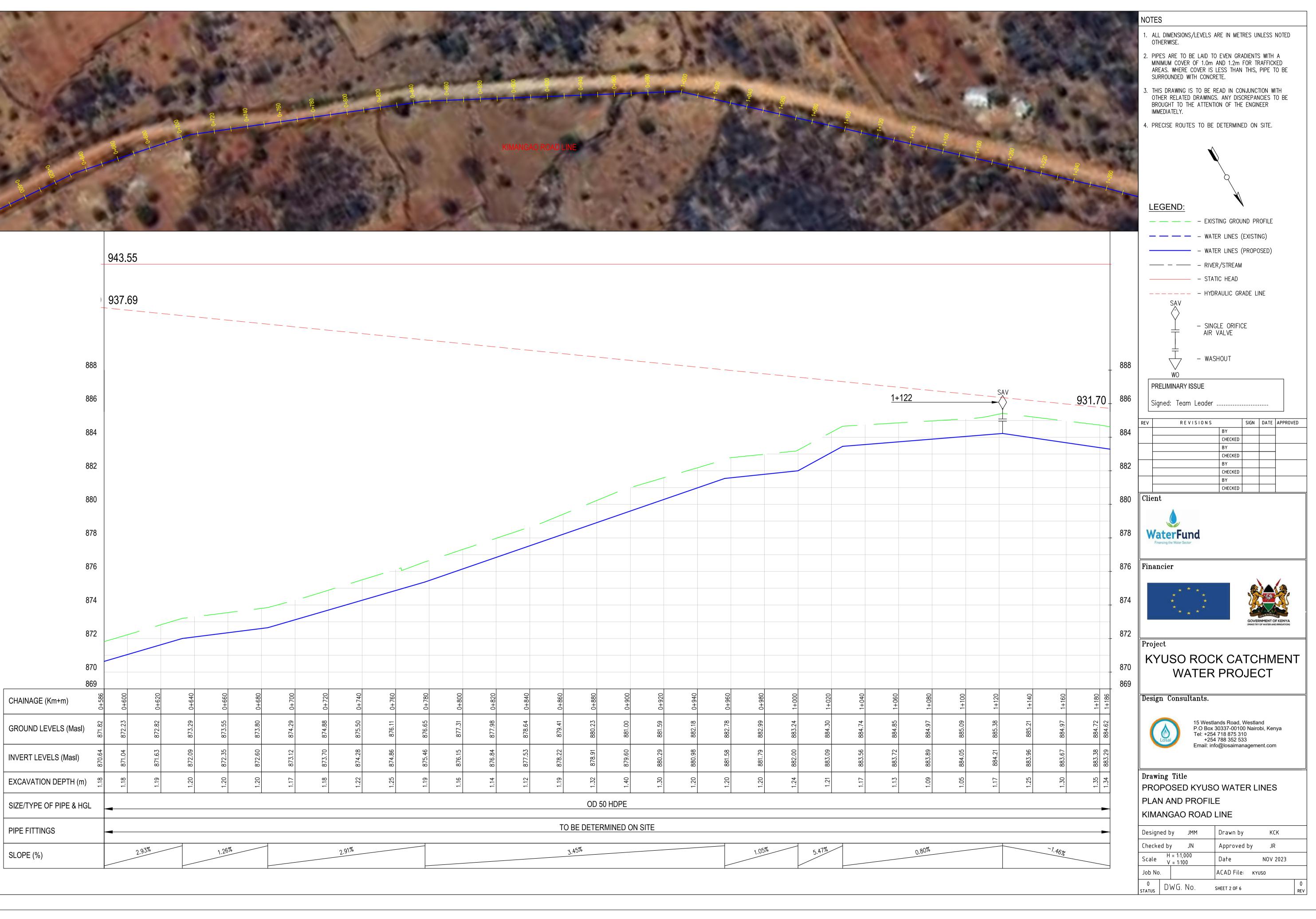




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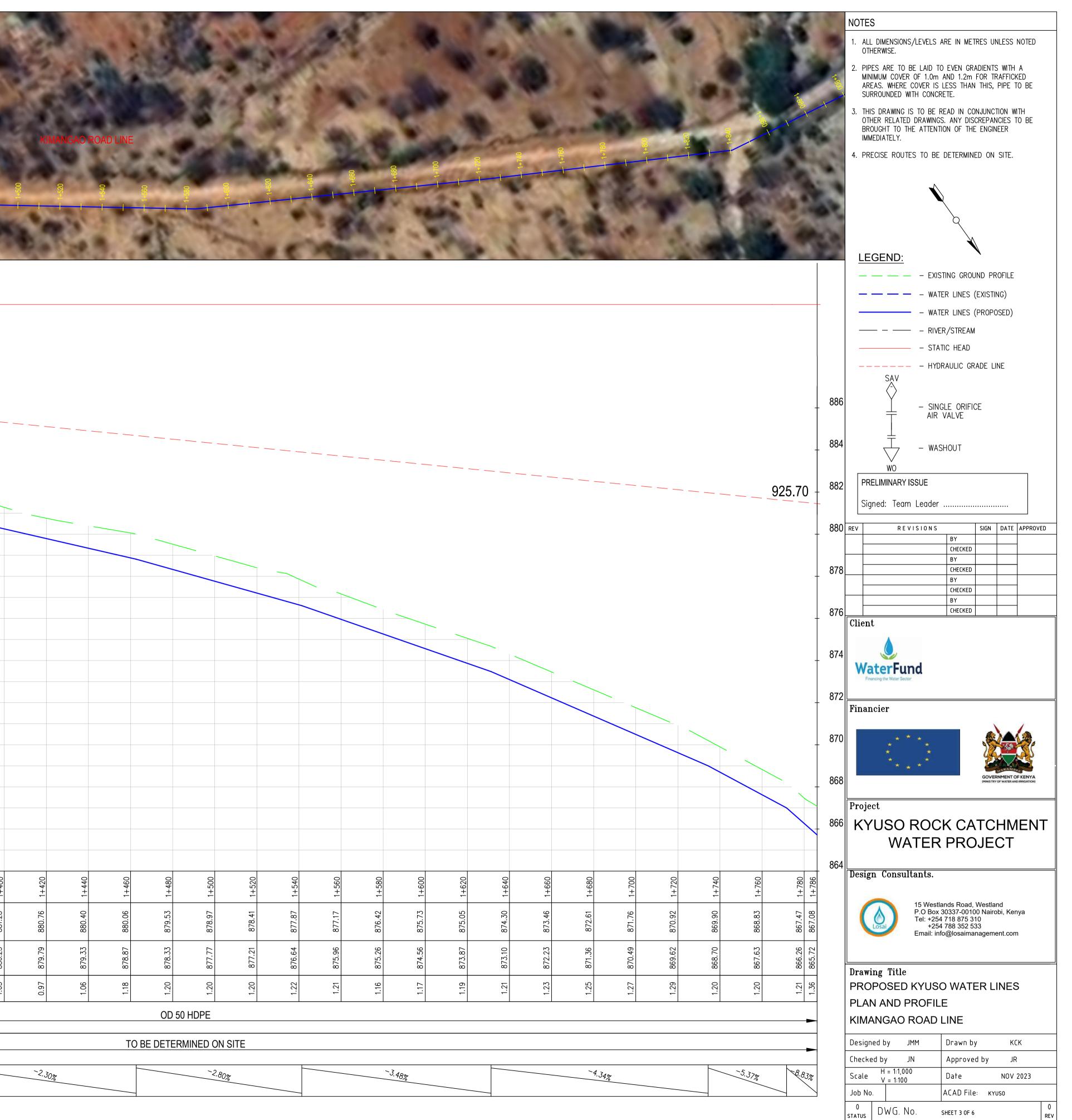




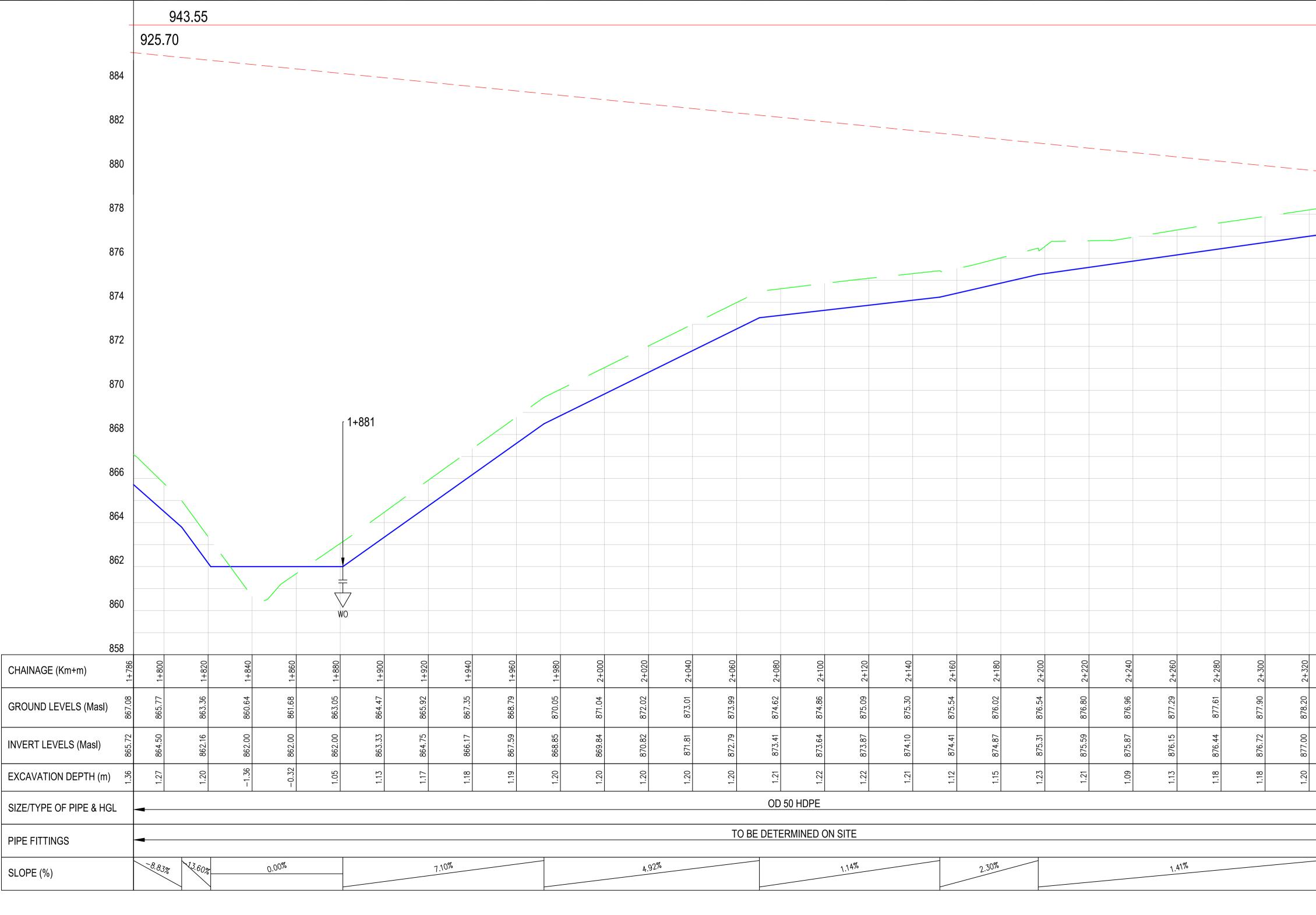




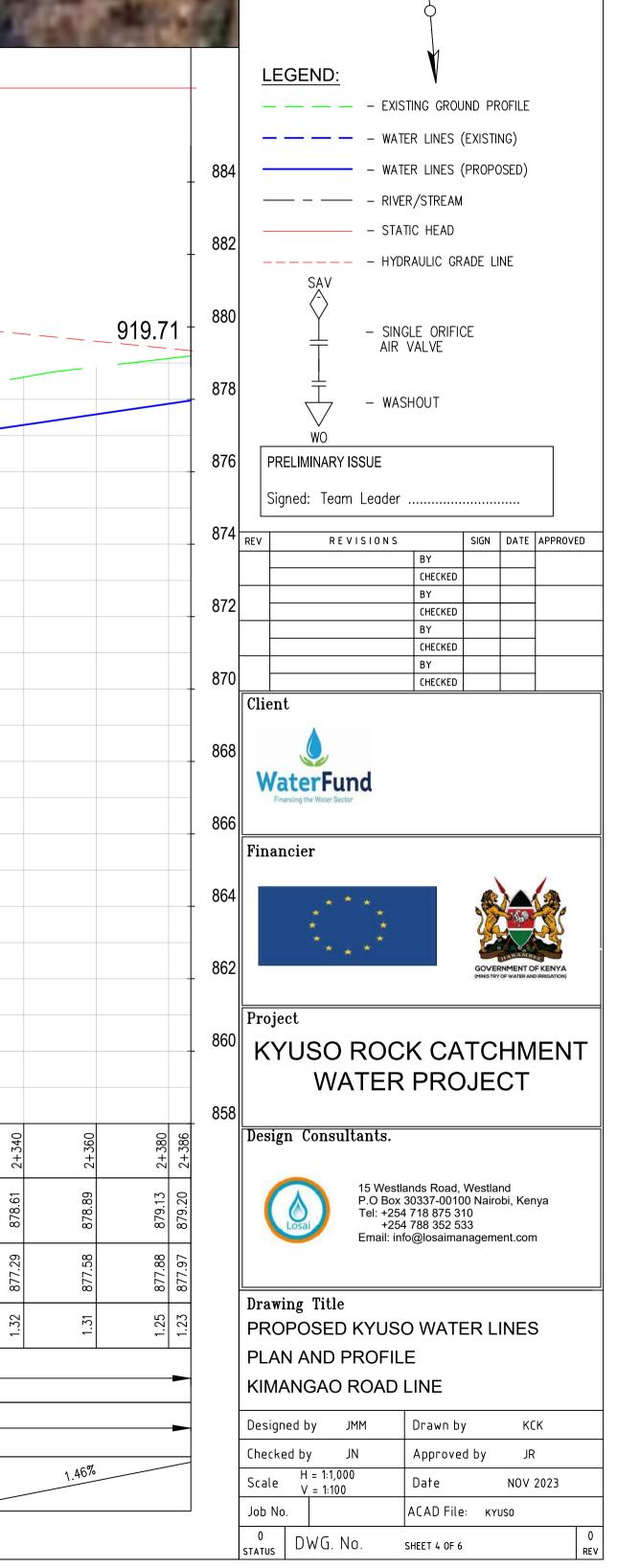
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	1+100	1+220	1+240	1+260	1+280	1+300	1+320	1+340	1+360	1+380	1+400	
GROUND LEVELS (Masl)			883.72	883.41		883.22	882.97	882.63	882.30	881.88	881.28	
INVERT LEVELS (Masl)			882.50	882.21		882.02	881.76	881.42	881.08	880.71	880.25	
EXCAVATION DEPTH (m)	1.31	1.26	1.22	1.20	1.20	1.20	1.21	1.21	1.22	1.17	1.03	
SIZE/TYPE OF PIPE & HGL												
PIPE FITTINGS						0						
SLOPE (%)		-1.	46%			0.48%		-1.7	1%			



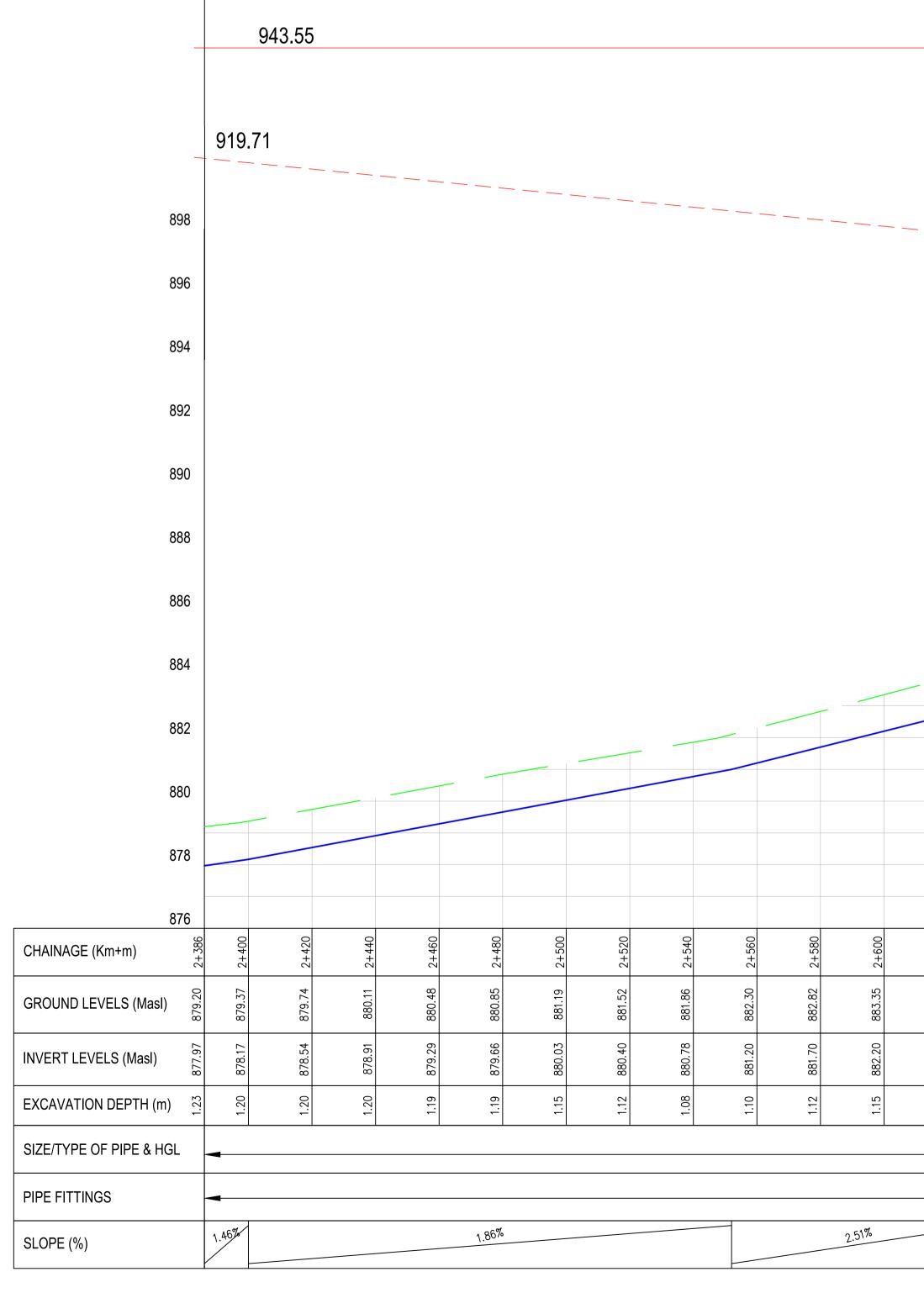




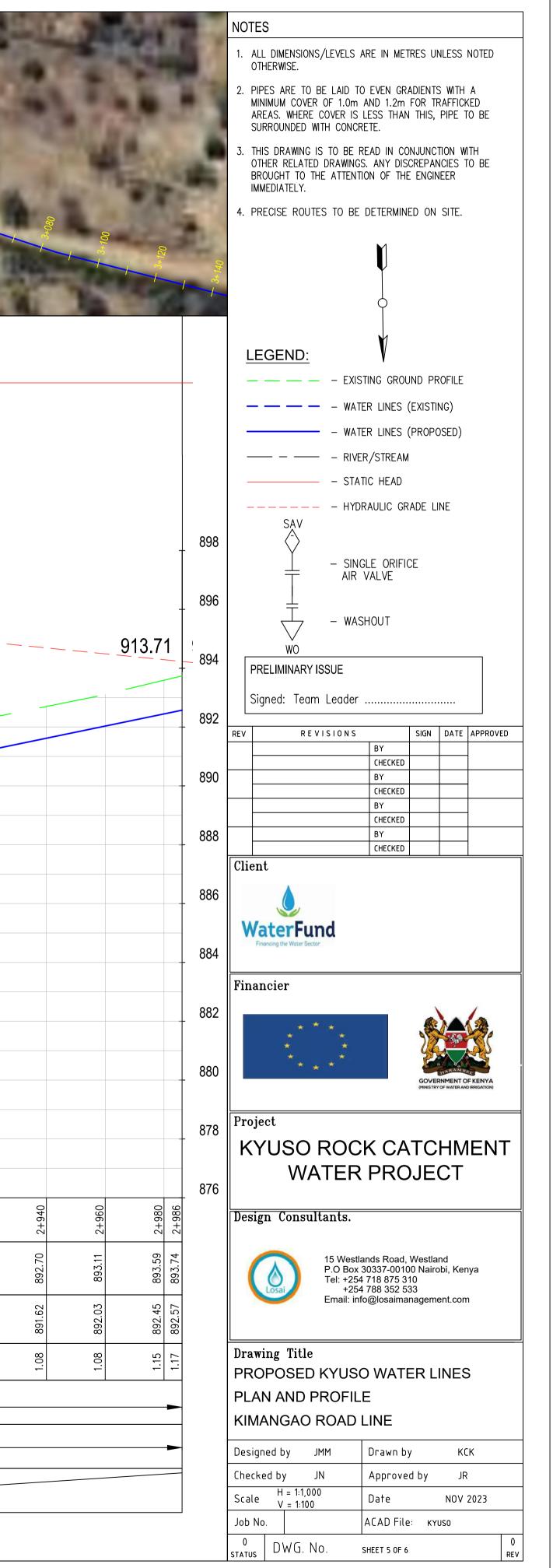
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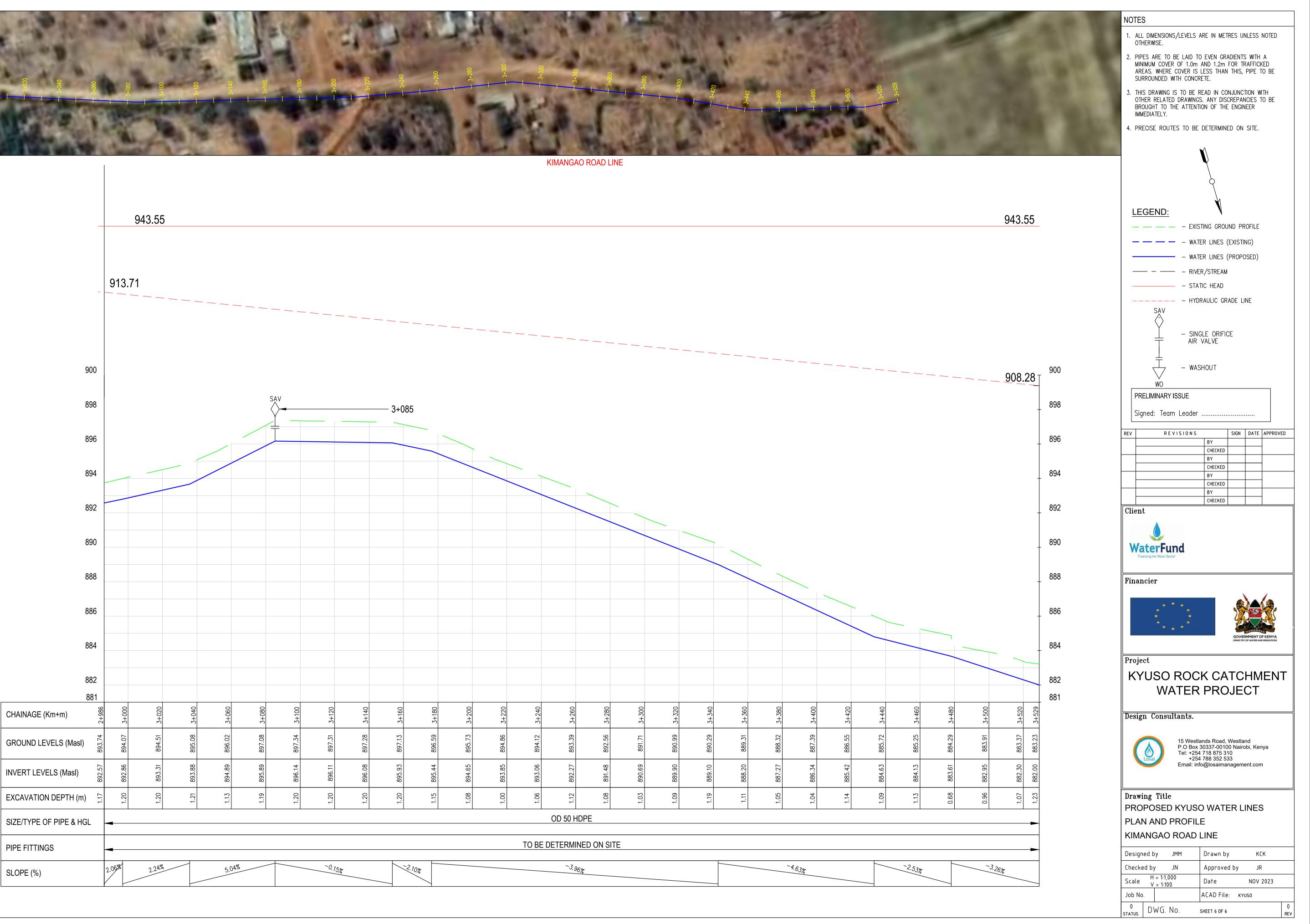




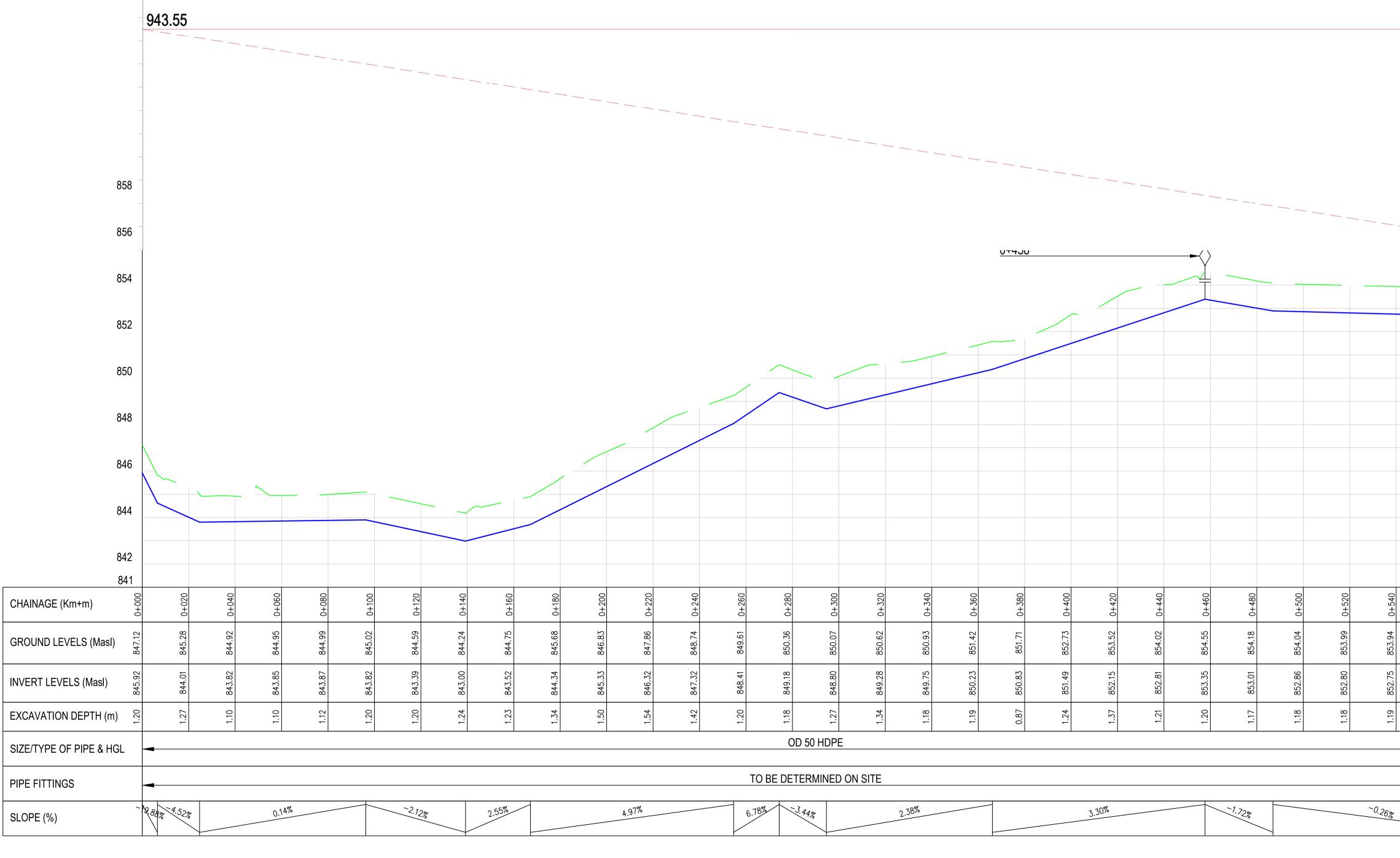
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883.88 2+	884.42 2+	885.08 2+	885.78 2+	886.38 2+	886.81 2+	887.53 2+	888.27 2+	888.97 2+	889.84 2+	890.34 2+	890.75 2+	891.11 2+	891.47 2+	891.90 2+	892.30 2+
882.70 88	883.24 88	883.83 88	884.42 88	885.01 88	885.60 88	886.35 88	887.12 88	887.89 88	888.66	889.14 89	889.56 89	889.97 89	890.38	890.79 89	891.21 89
1.18 88	1.17 88	1.25 88	1.35 88	1.37 88	1.21 88	1.18 88	1.15	1.08 88	1.18 88	1.20 88	1.20 88	1.14 88	1.09 89	1.11 89	1.09 89
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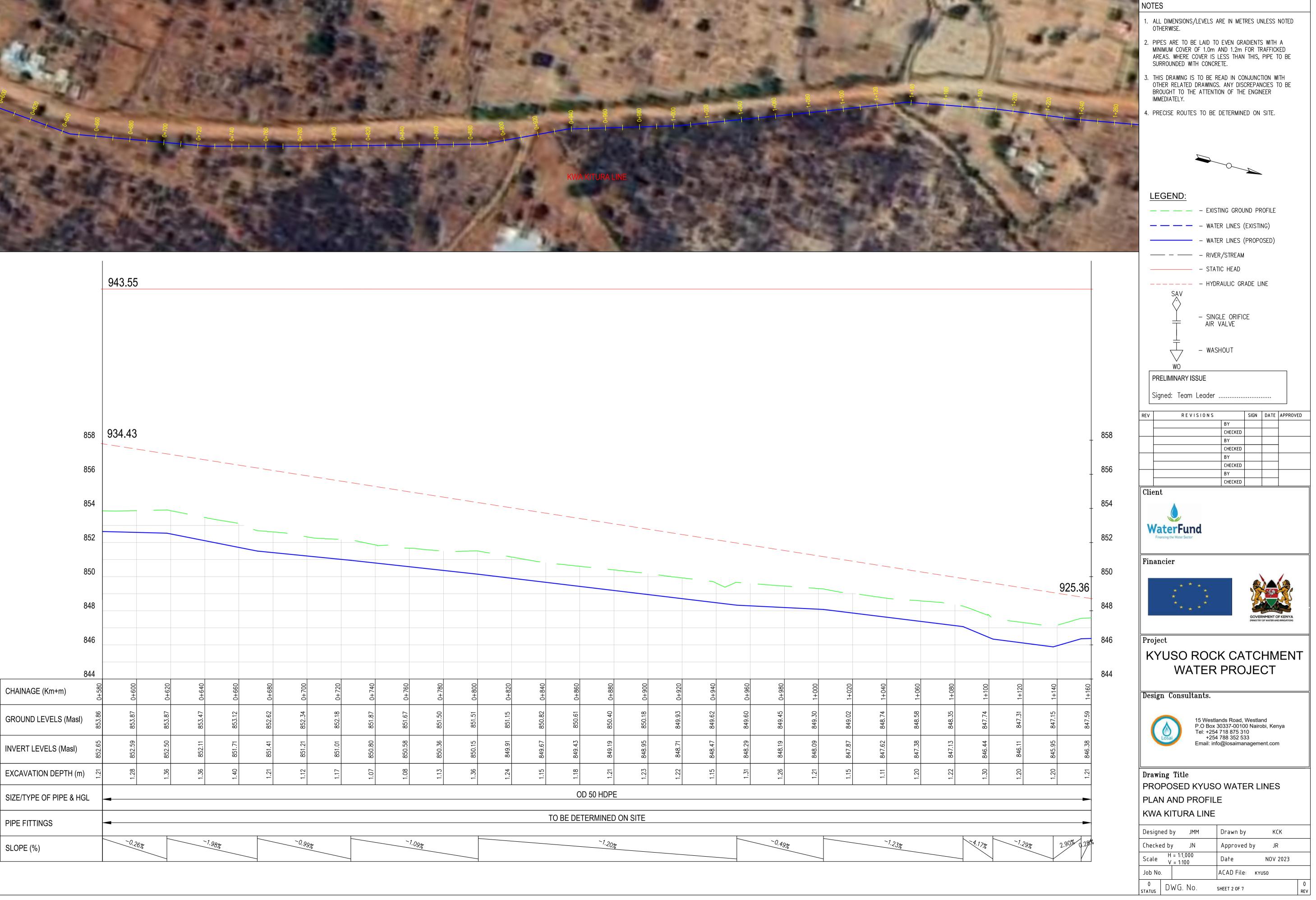
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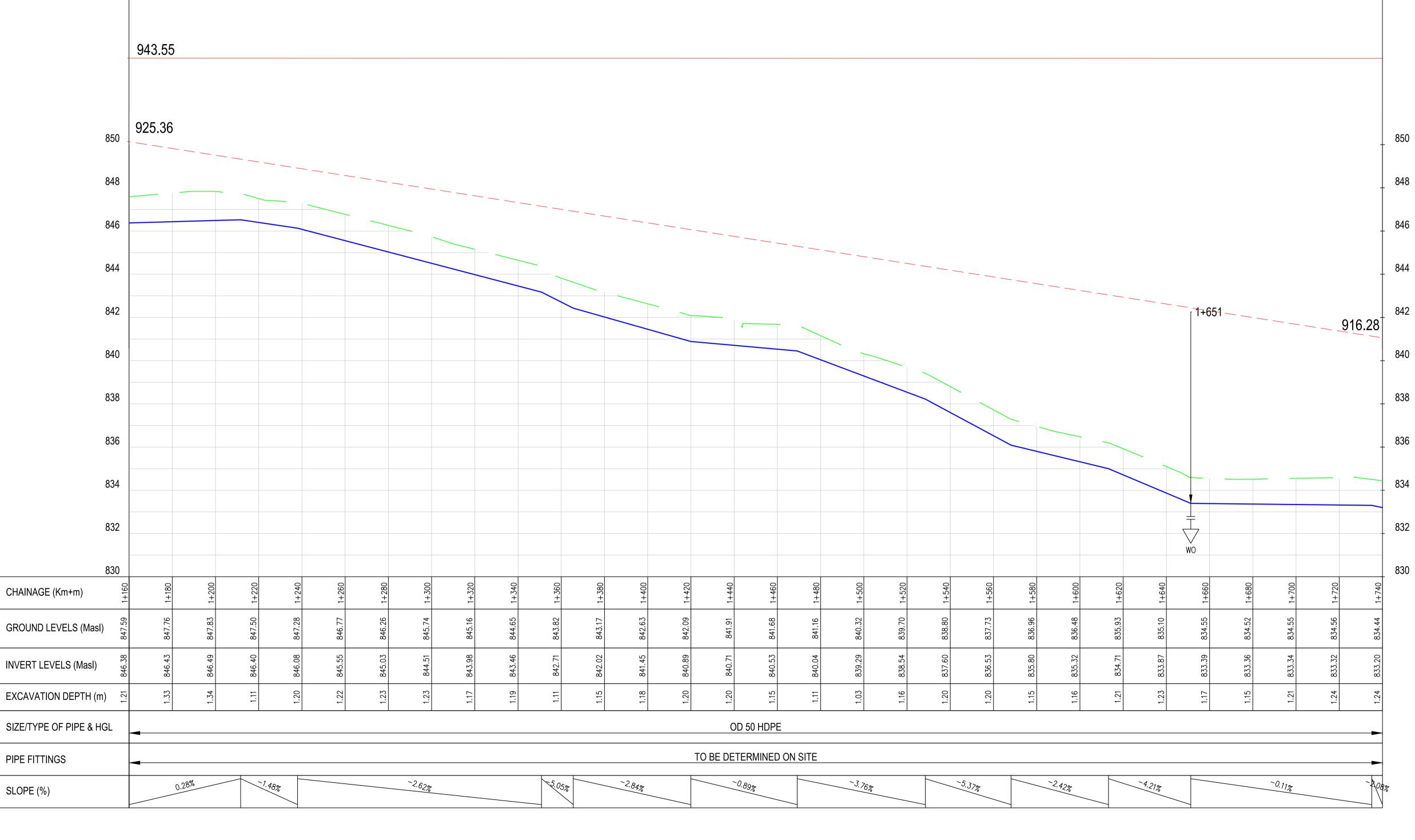
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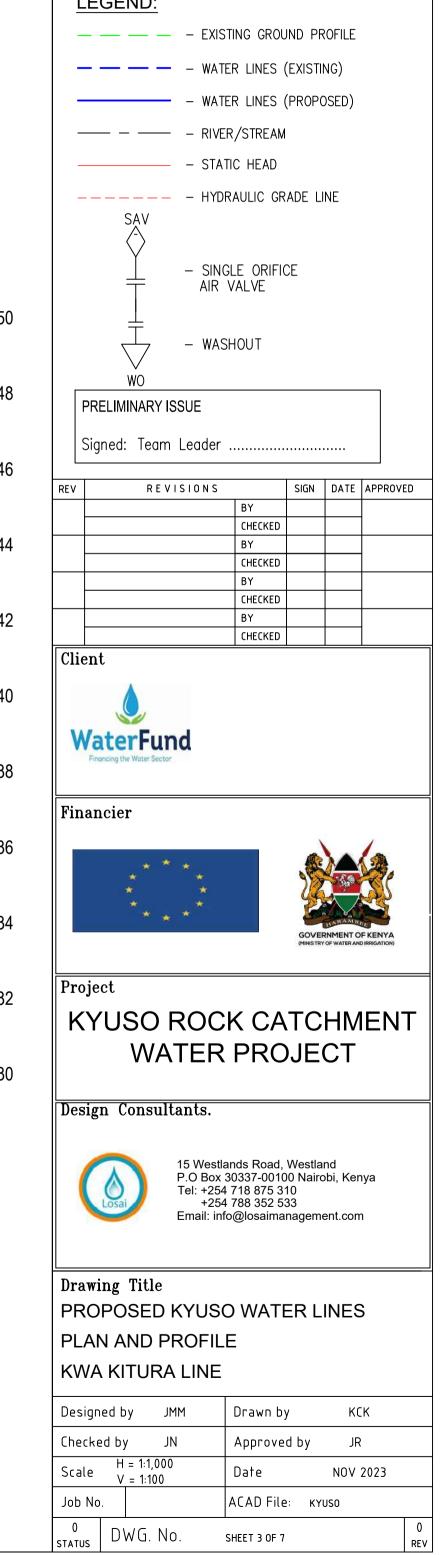


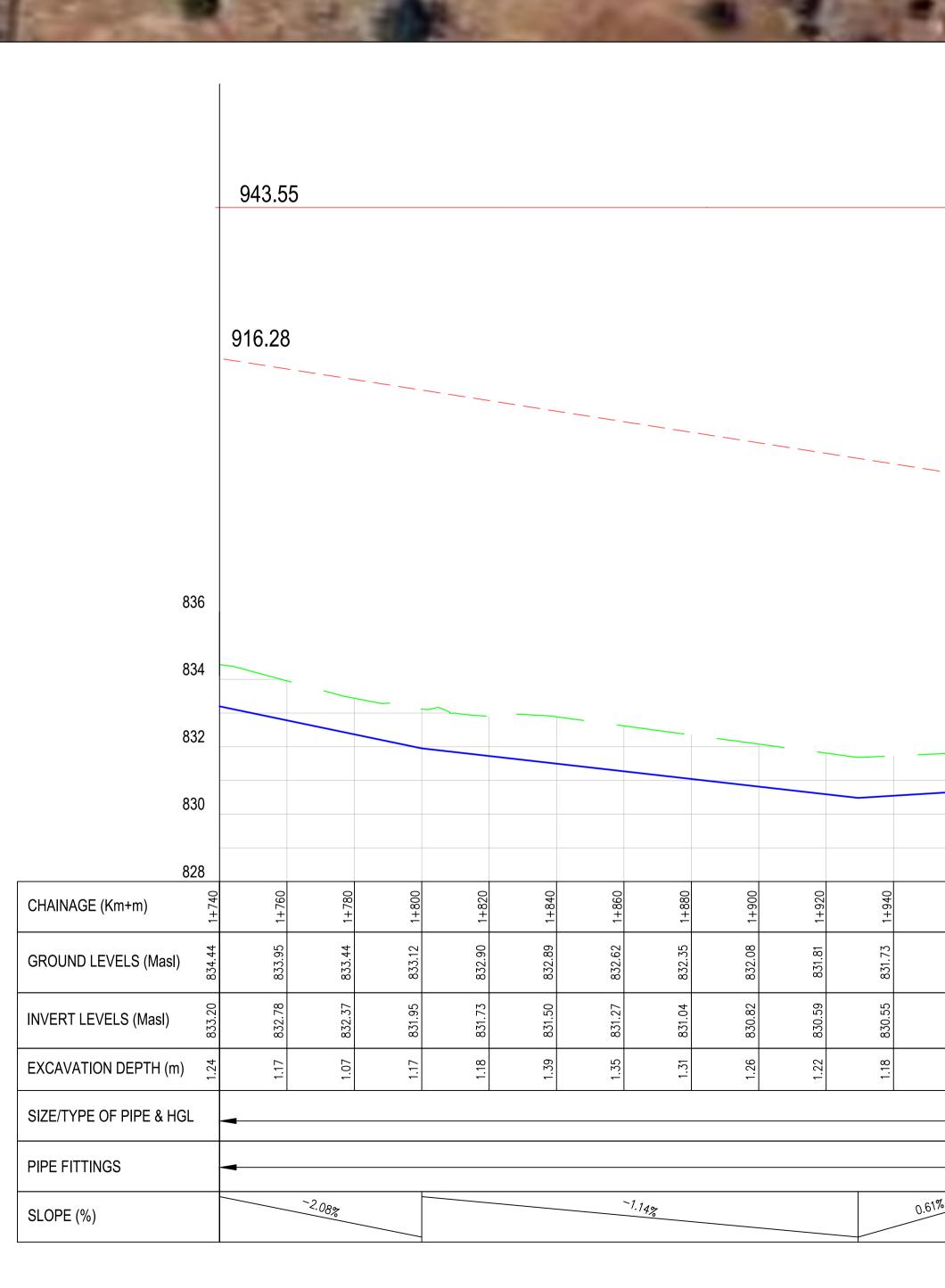




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- 4. PRECISE ROUTES TO BE DETERMINED ON SITE.

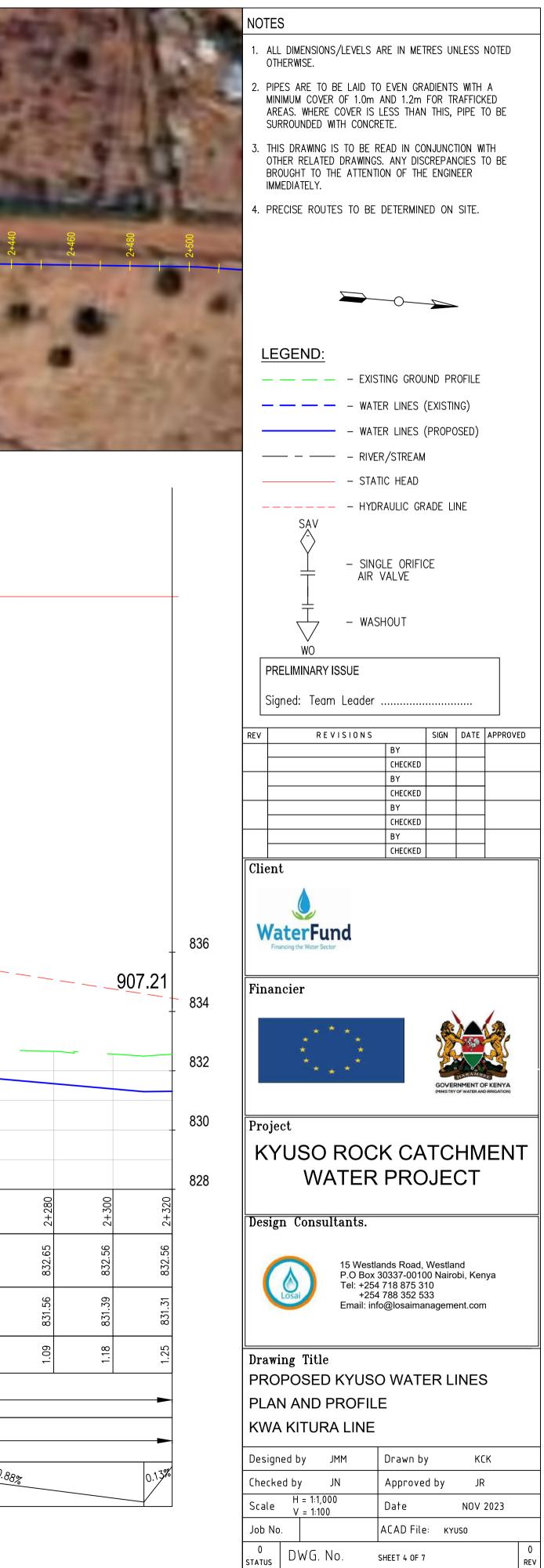
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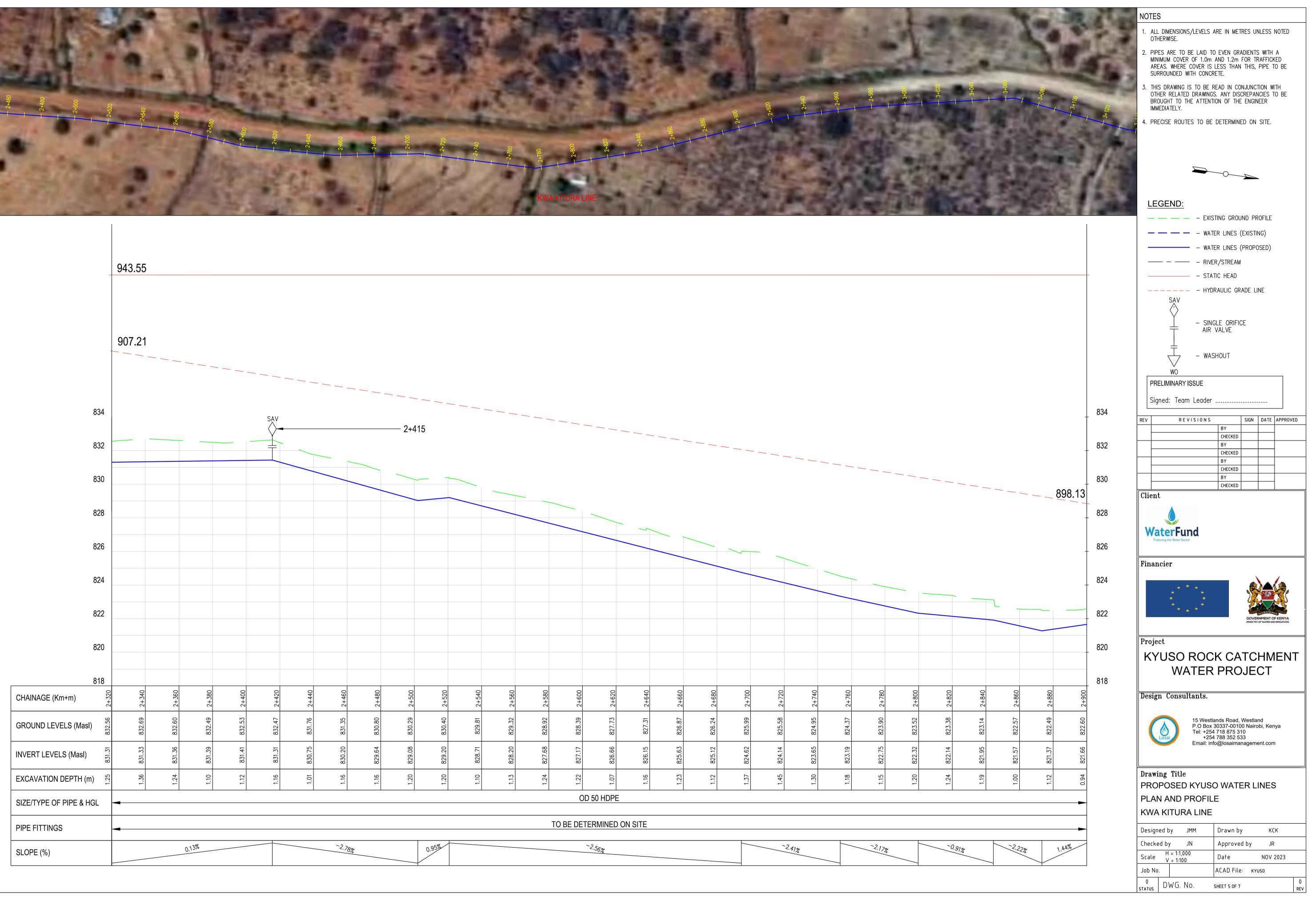


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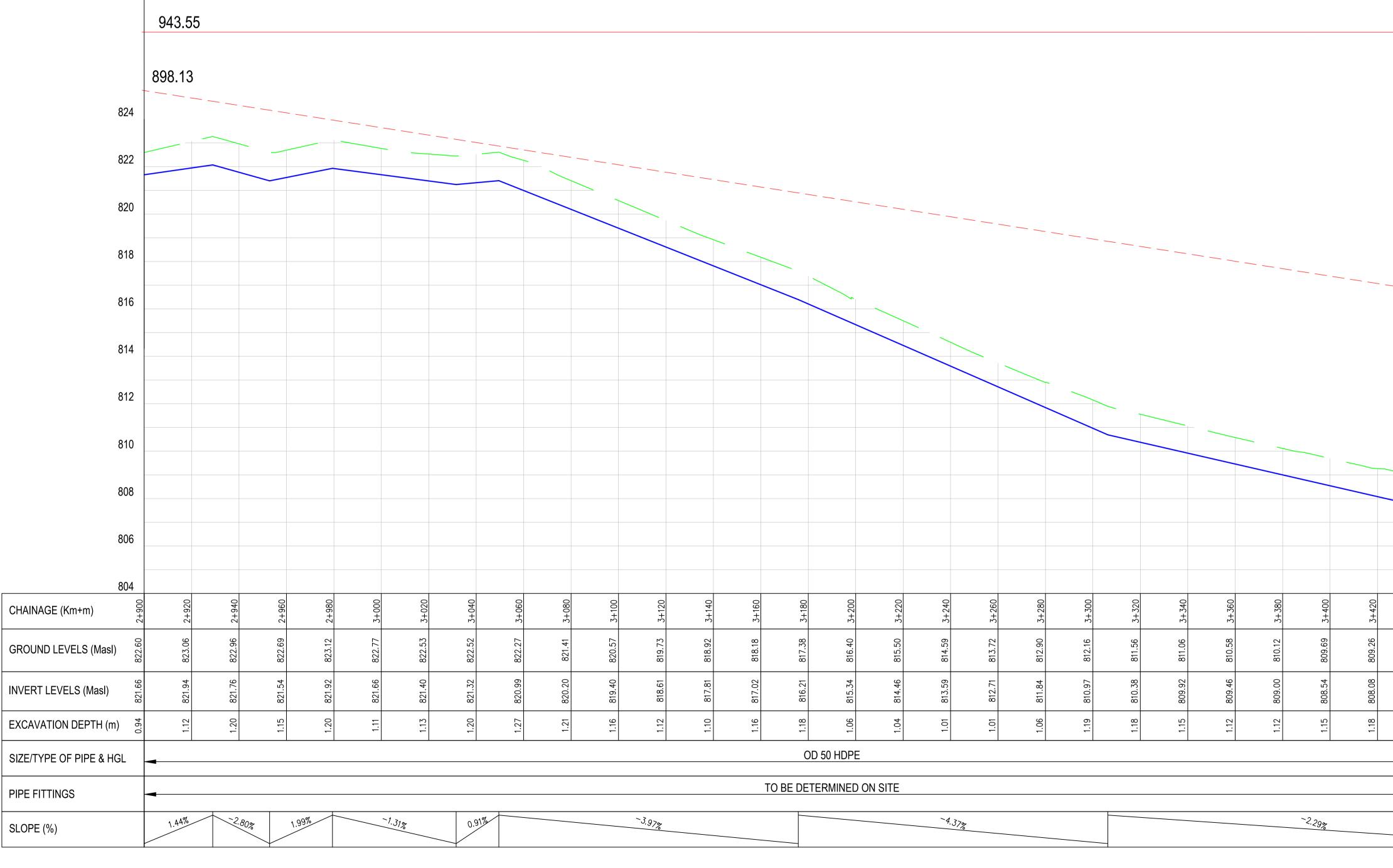


REV









 - 3+420 - 3+440 - 3+460	+ 3+480 - 3+500 3+520	3+540 3+560 3+580	3+600	- 3+640 - 3+660 - 3+680
KWA KITURA LINE				



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822

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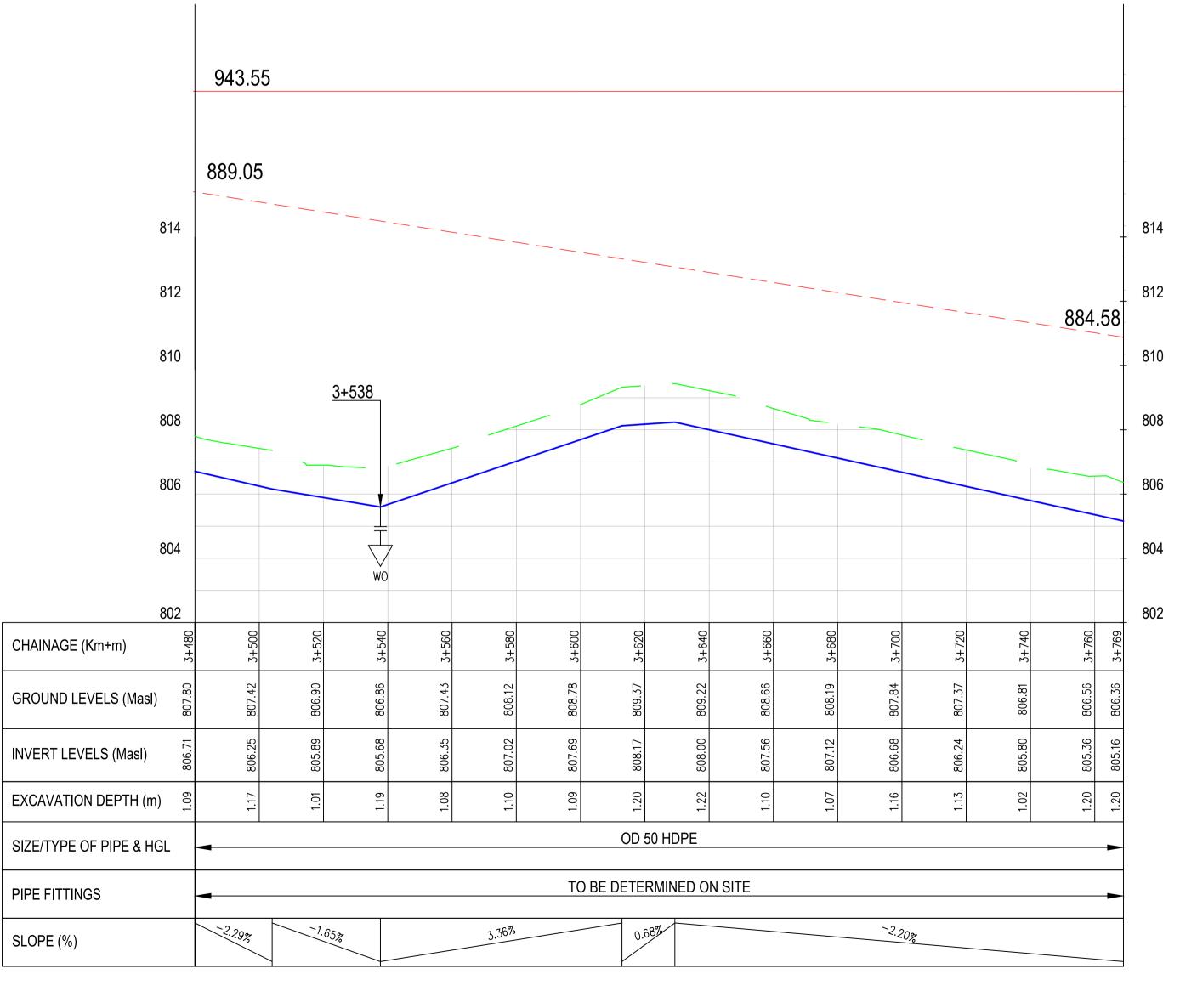
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889.05

- 1. ALL DIMENSIONS/LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
- PIPES ARE TO BE LAID TO EVEN GRADIENTS WITH A MINIMUM COVER OF 1.0m AND 1.2m FOR TRAFFICKED AREAS. WHERE COVER IS LESS THAN THIS, PIPE TO BE SURROUNDED WITH CONCRETE.
- 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER RELATED DRAWINGS. ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 4. PRECISE ROUTES TO BE DETERMINED ON SITE.

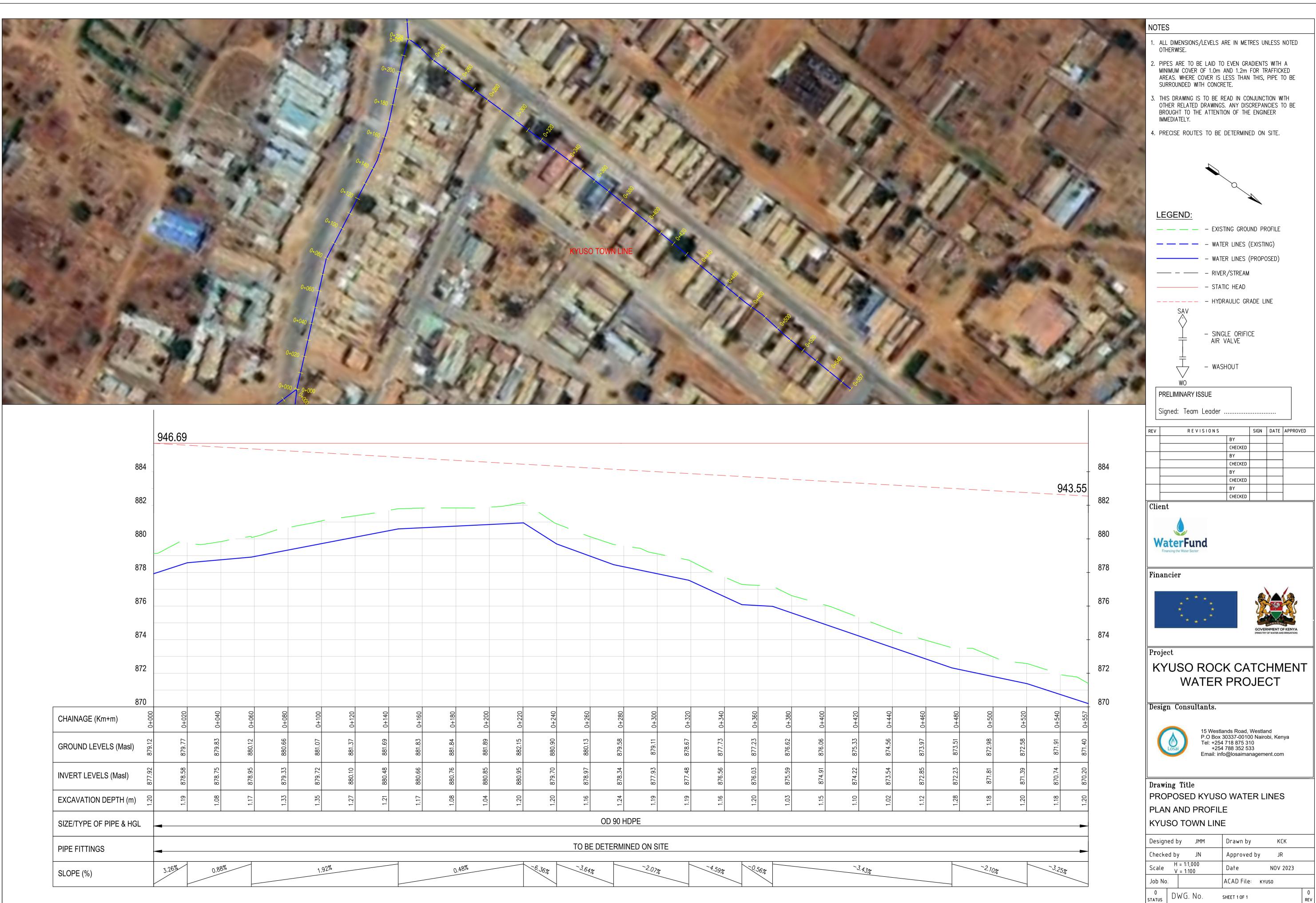
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Pr Þ	Financing U nancie oject	r * * SO W/	* * * * R(ND IRRIGATH	DN)
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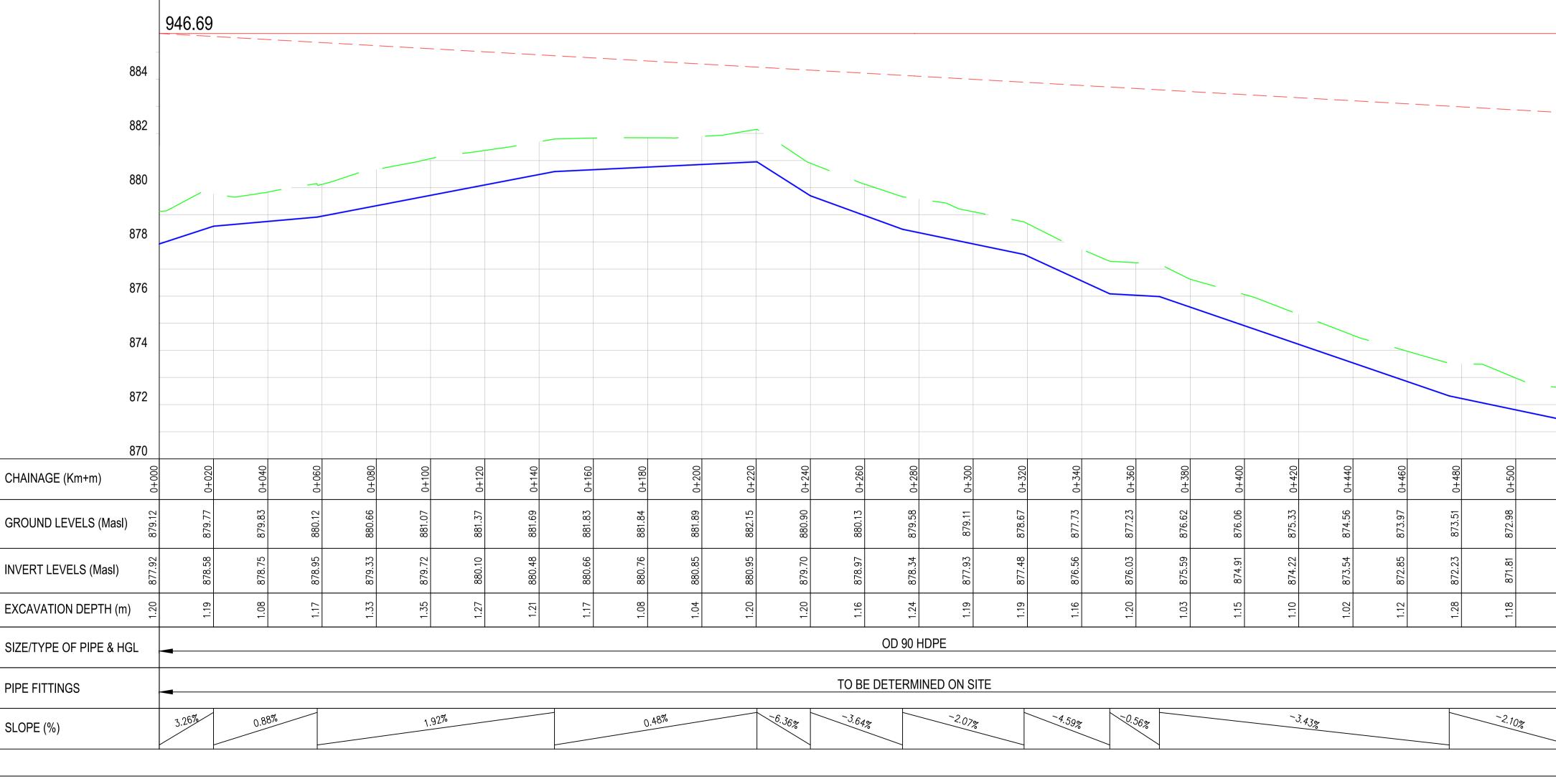




- 1. ALL DIMENSIONS/LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
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- 4. PRECISE ROUTES TO BE DETERMINED ON SITE.

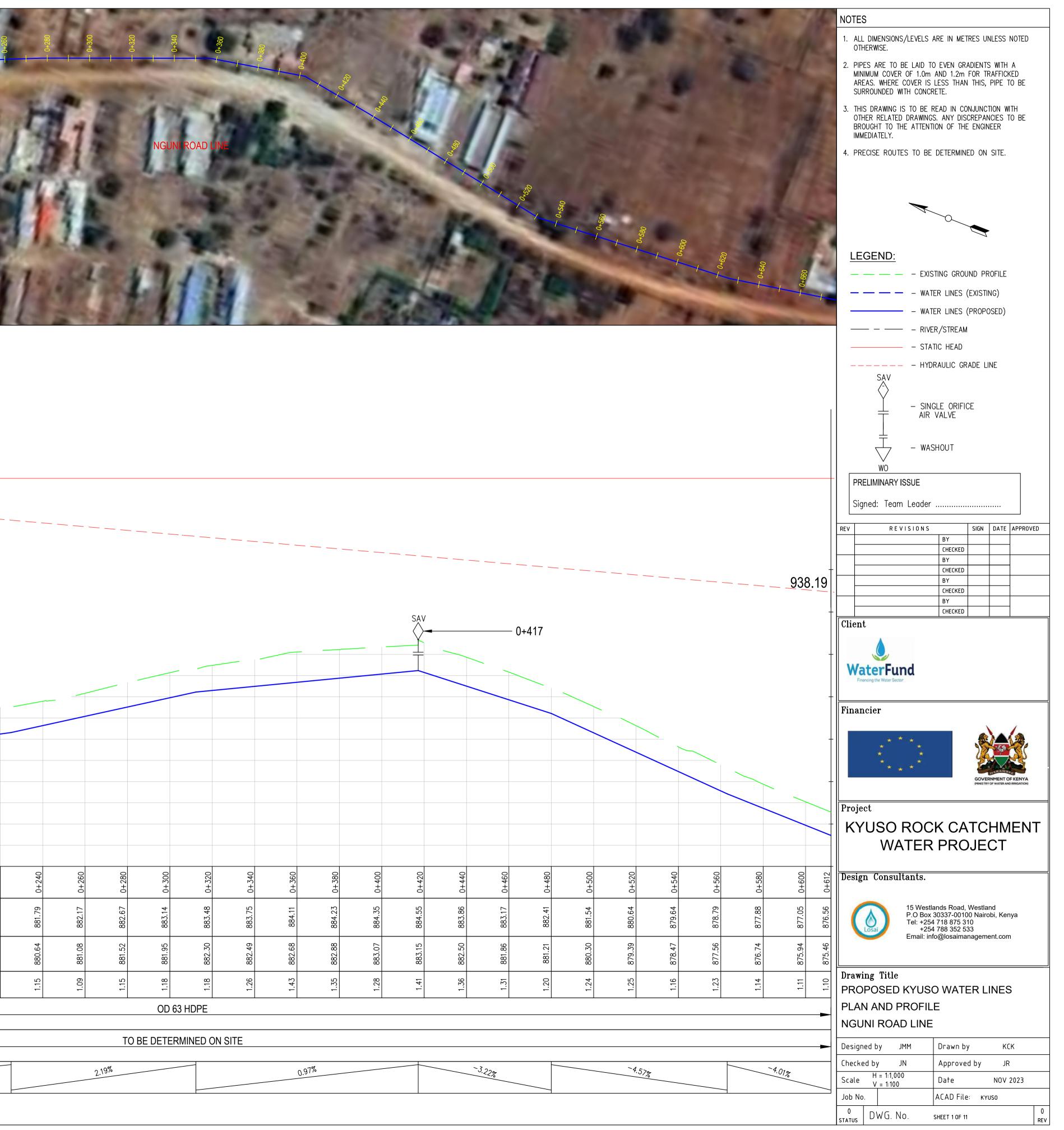
LEGEND: — — — — EXISTING GROUND PROFILE - - - - water lines (existing) – WATER LINES (PROPOSED) – STATIC HEAD — — — — — — HYDRAULIC GRADE LINE SAV - SINGLE ORIFICE AIR VALVE - WASHOUT $\overline{}$ WO PRELIMINARY ISSUE Signed: Team Leader SIGN DATE APPROVED REVISIONS REV BY CHECKED BY CHECKED BY CHECKED BY CHECKED Client WaterFund Financier GOVERNMENT OF KENYA (MINIS TRY OF WATER AND IRRIGATION) Project **KYUSO ROCK CATCHMENT** WATER PROJECT Design Consultants. 15 Westlands Road, Westland P.O Box 30337-00100 Nairobi, Kenya Tel: +254 718 875 310 +254 788 352 533 Email: info@losaimanagement.com 0 Drawing Title PROPOSED KYUSO WATER LINES PLAN AND PROFILE KWA KITURA LINE Designed by JMM Drawn by КСК Checked by JN Approved by JR Scale H = 1:1,000 V = 1:100 Date NOV 2023 ACAD File: KYUSO Јођ Мо. 0 STATUS DWG. NO. SHEET 7 OF 7 REV





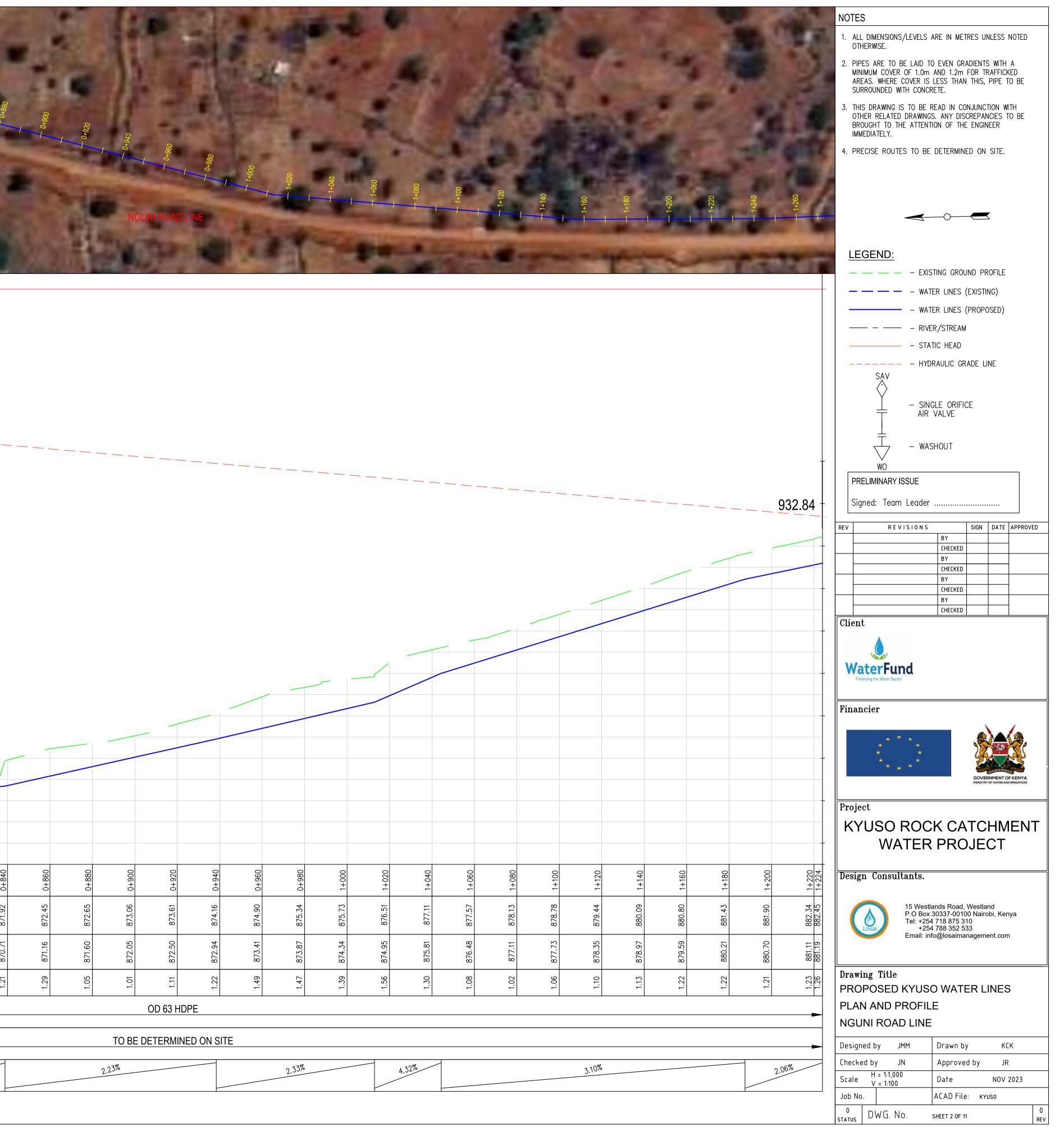
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8	86	-										
8	84											
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8	80											
8	878											
8	376											
8	874											
CHAINAGE (Km+m)	000+0	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	
GROUND LEVELS (Masl)	879.12		879.40	879.63	879.82	879.86	880.13	880.41	880.55	881.02	881.32	
()												
INVERT LEVELS (Masl)	878.00	878.79	878.25	878.38	878.51	878.64	878.89	879.16	879.43	879.70	879.97	
EXCAVATION DEPTH (m)	1.12	1.44	1.15	1.25	1.31	1.22	1.24	1.25	1.12	1.32	1.35	
SIZE/TYPE OF PIPE & HG	L	-										
PIPE FITTINGS		-										
SLOPE (%)		11.48% -4.	16%	().67%				1.35	5%		





0+600 0+620 0+640 0+660	89. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	0+140 1=0	04180	+800 1+800	+	00																
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CHAINAGE (Km+m) 910 GROUND LEVELS (Masl) 92	.48 0+64 .69 0+66	0+0 20+1 20+1	5 5	.79 0+76	.50 0+800	.36 0+82	.92 0+840	.45 0+	.65 0+88	06 0+90	0+0	96+0 0+96	.34 0+980	.73 1+000	3.51 1+020	7.11 1+040	:57 1+060	8.13 1+080	1+10	.44 1+12	0.09 1+14	880.80 1+160
GROUND LEVELS (Masl) 92.928 1000000000000000000000000000000000000	4.34 875 4.34 875 3.52 874		8/1.11 8/2.26 8/0.64 8/1.85	0.53 871	0.41 0/1	0.49 870	870.71 871.92	1.16 872	1.60 872	2.05 873	2.50 873		3.87 875	4.34 875	4.95 876	5.81 877	5.48 877.57	7.11 878	7.73 878	3.35 879	3.97 880	870 50 880
EXCAVATION DEPTH (m) 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1.14 87/ 1.17 87/ 1.17 87/		1.14 8/ 1.21 870	1.26 870 1.20 870 1.20 87	1.20 070	-0.13 870	1.21 87	1.29 871.	1.05 87	1.01 872	1.11 872 1.22 872 872	1.49 87.	1.47 87.	1.39 874	1.56 874	1.30 87	1.08 876	1.02 87	1.06 87	1.10 878	1.13 878	1 22 870
SIZE/TYPE OF PIPE & HGL						i				OD 6	53 HDPE										I	
										TO BE DETER	RMINED ON	SITE										
SLOPE (%)	-4.01%	93%	58%	-0.57%		1.02%			2.23	3%			2.33%		4.7	32%				3.10%		

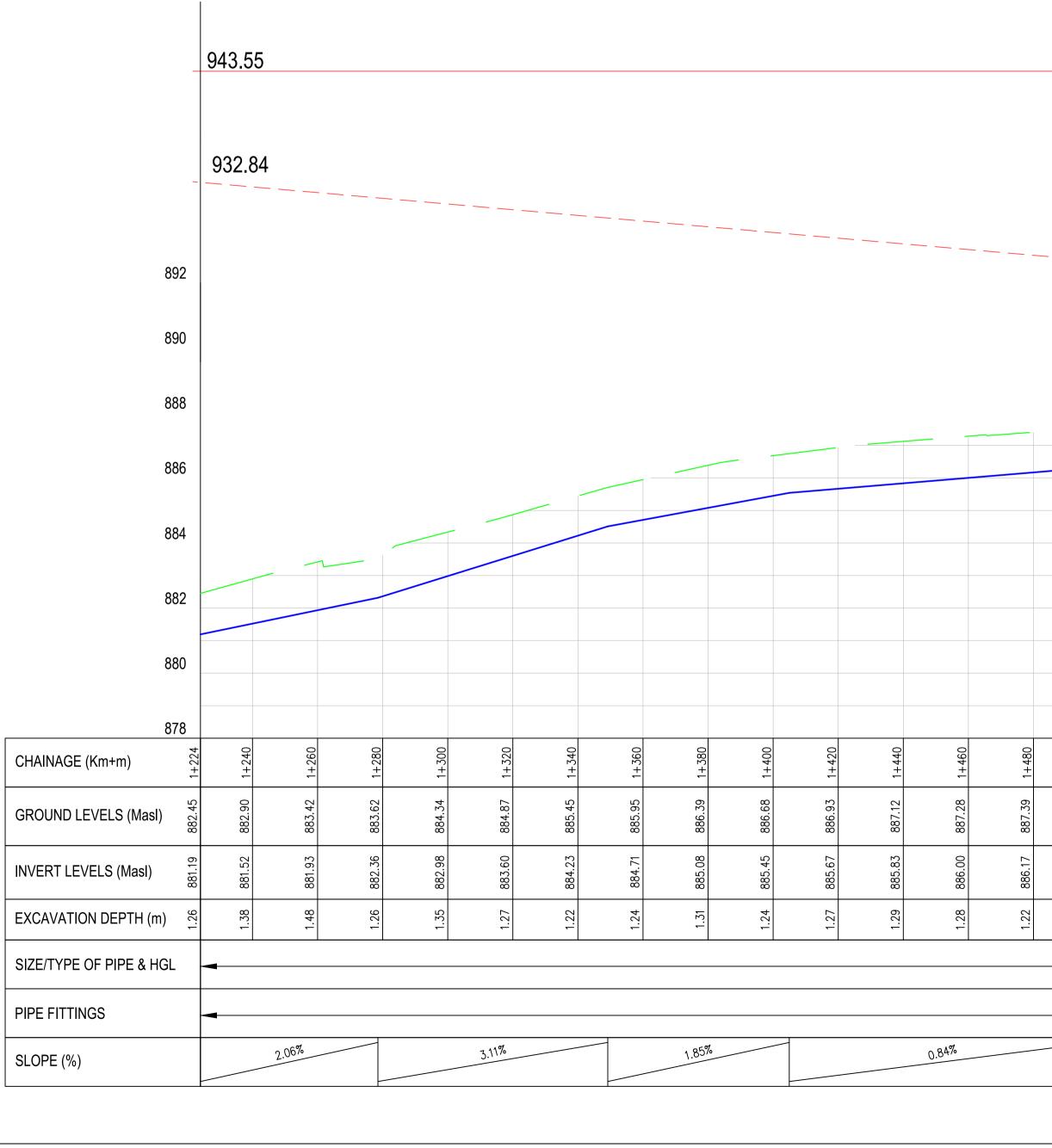






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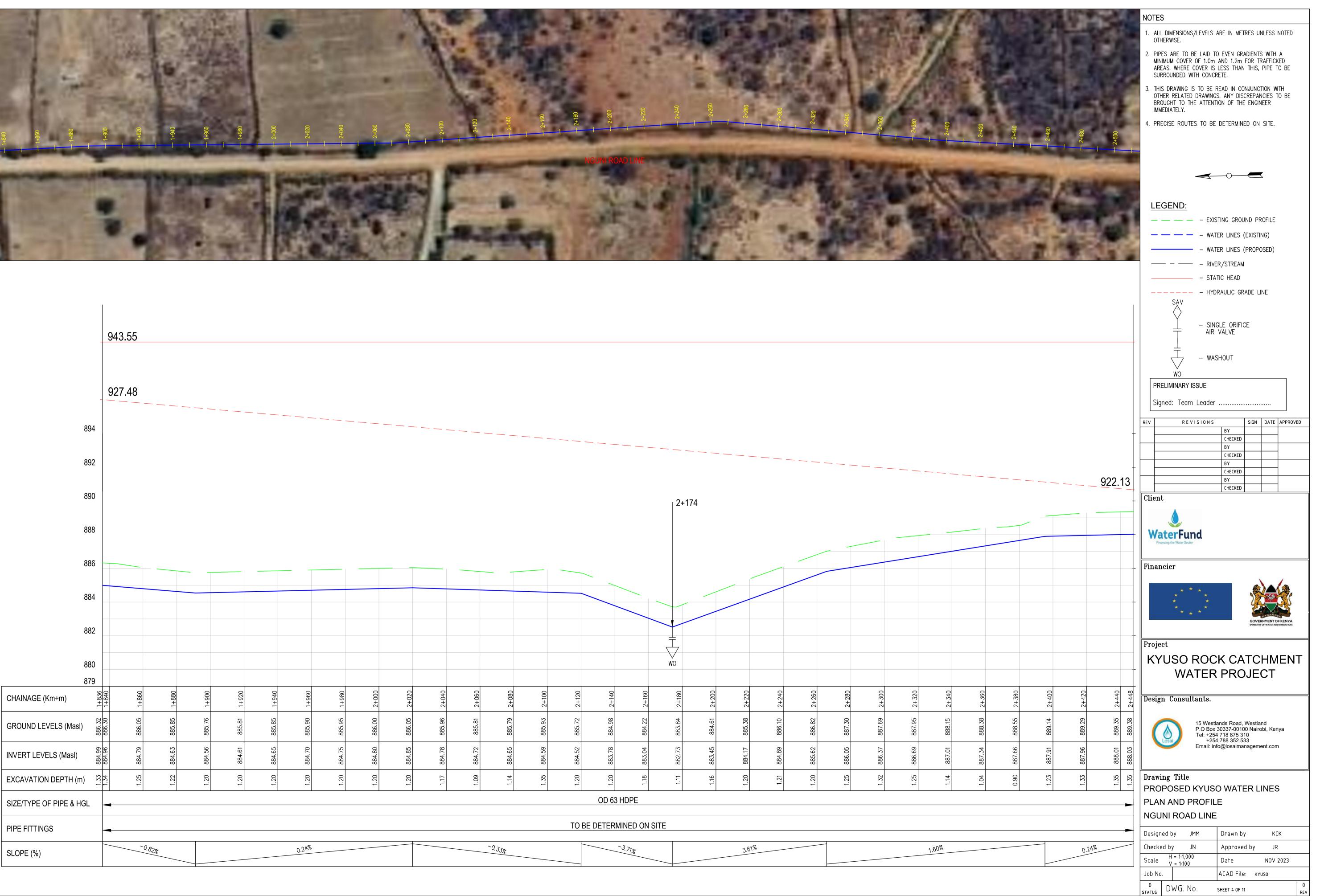


1+460	1+480	1+500	1+520	1+540	1+560	1+580	1+600	1+620	1+640	1+660	1+680	1+700	1+720	1+740	1+760	
887.28	887.39	887.68	887.71	887.74	887.89	887.96	887.81	887.67	887.59	887.74	887.55	887.36	887.40	887.17	886.88	
886.00	886.17	886.33	886.45	886.57	886.69	886.76	886.66	886.55	886.45	886.35	886.24	886.11	885.95	885.78	885.62	
1.28	1.22	1.35	1.26	1.17	1.20	1.19	1.15	1.11	1.14	1.39	1.31	1.25	1.45	1.39	1.27	
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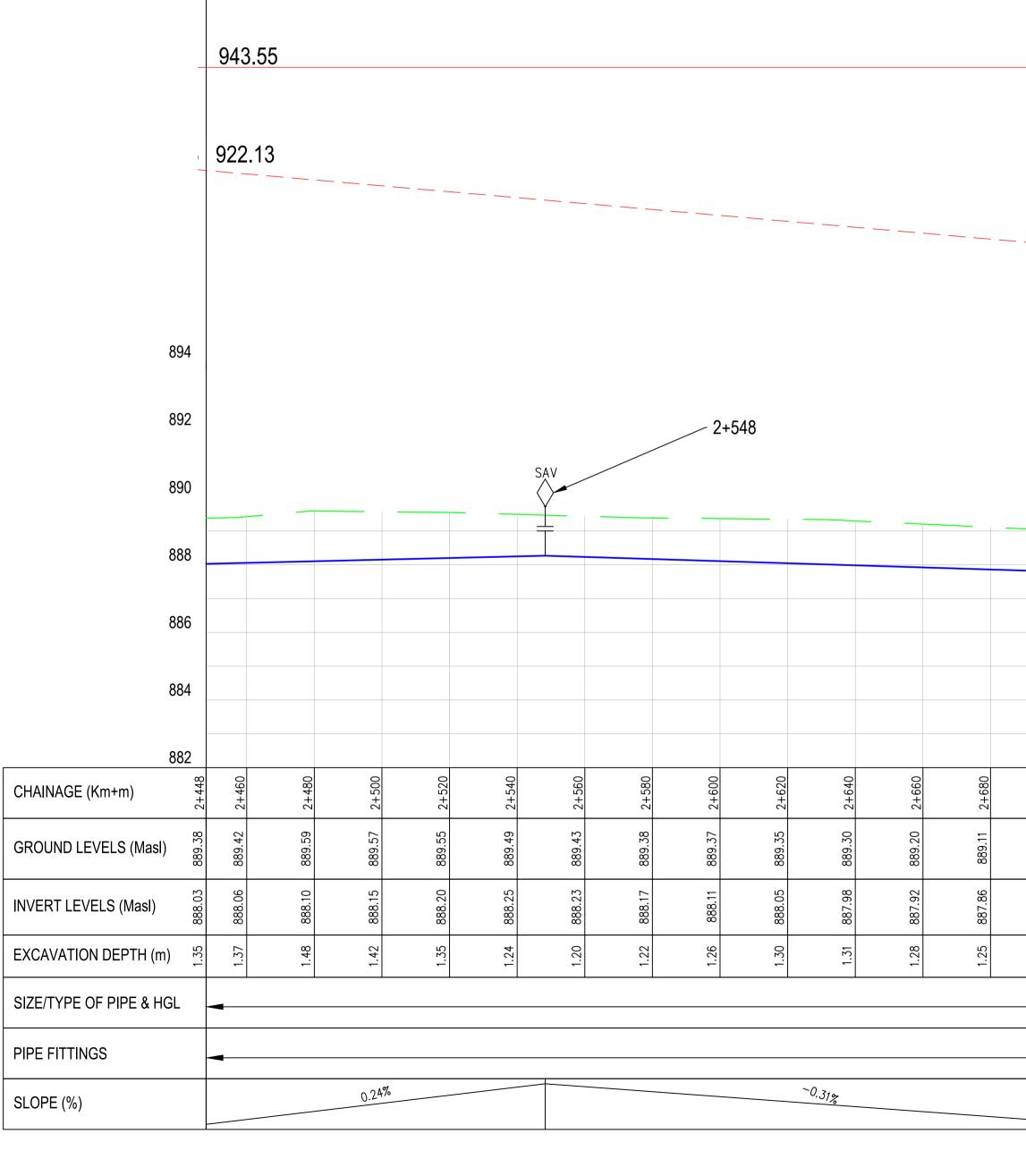
— 1+576

	ere.	100	-	22	-			-		13	NOTES
	1	0							3		1. ALL DIMENSIONS/LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
	11								-	-	 PIPES ARE TO BE LAID TO EVEN GRADIENTS WITH A MINIMUM COVER OF 1.0m AND 1.2m FOR TRAFFICKED AREAS. WHERE COVER IS LESS THAN THIS, PIPE TO BE SURROUNDED WITH CONCRETE.
	1	2 0	2								3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER RELATED DRAWINGS. ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
1+680							70+ 			-	4. PRECISE ROUTES TO BE DETERMINED ON SITE.
										No. of Lot of Lo	LEGEND: EXISTING GROUND PROFILE WATER LINES (EXISTING) - WATER LINES (PROPOSED)
											- SINGLE ORIFICE AIR VALVE - WASHOUT WO
											PRELIMINARY ISSUE Signed: Team Leader
									927.4	48_	REVISIONS SIGN DATE APPROVED BY CHECKED CHECKED
1+576										-	Client
											WaterFund Financing the Water Sector
											Financier Financier Financier Froject KYUSO ROCK CATCHMENT WATER PROJECT
1+640	1+660	1+680	1+700	1+720	1+740	1+760	1+780	1+800	1+820	1+836	Design Consultants.
887.59	887.74	887.55	887.36	887.40	887.17	886.88	886.65	886.52	886.40	886.32	15 Westlands Road, Westland P.O Box 30337-00100 Nairobi, Kenya Tel: +254 718 875 310 +254 788 352 533 Email: info@losaimanagement.com
886.45	886.35	886.24	886.11	885.95	885.78	885.62	885.45	885.29	885.12	884.99	Email: info@losaimanagement.com
1.14	1.39	1.31	1.25	1.45	1.39	1.27	1.20	1.23	1.28	1.33	Drawing Title PROPOSED KYUSO WATER LINES PLAN AND PROFILE NGUNI ROAD LINE
-0.52%					-0.83%				-0.82%		Designed byJMMDrawn byKCKChecked byJNApproved byJRScaleH = 1:1,000 V = 1:100DateNOV 2023
			_					4		_	ScaleV = 1:100DateNUV 2023Job No.ACAD File:KYUSO0DWG. NO.SHEET 3 OF 110REV





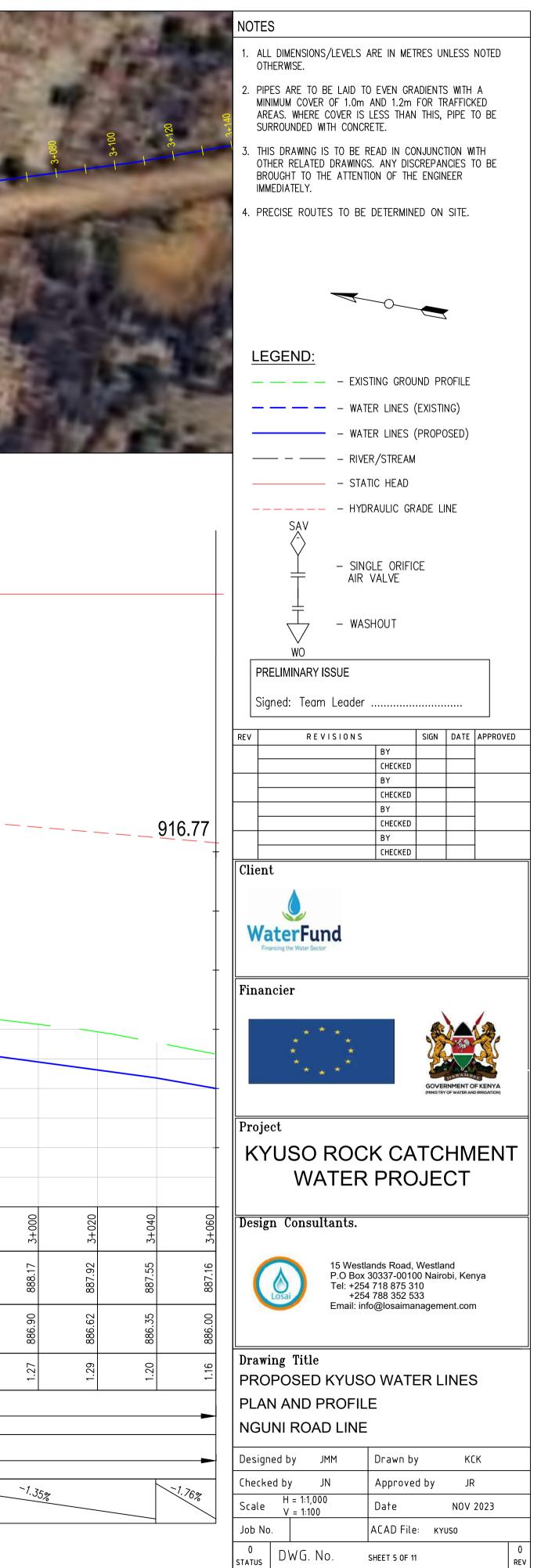




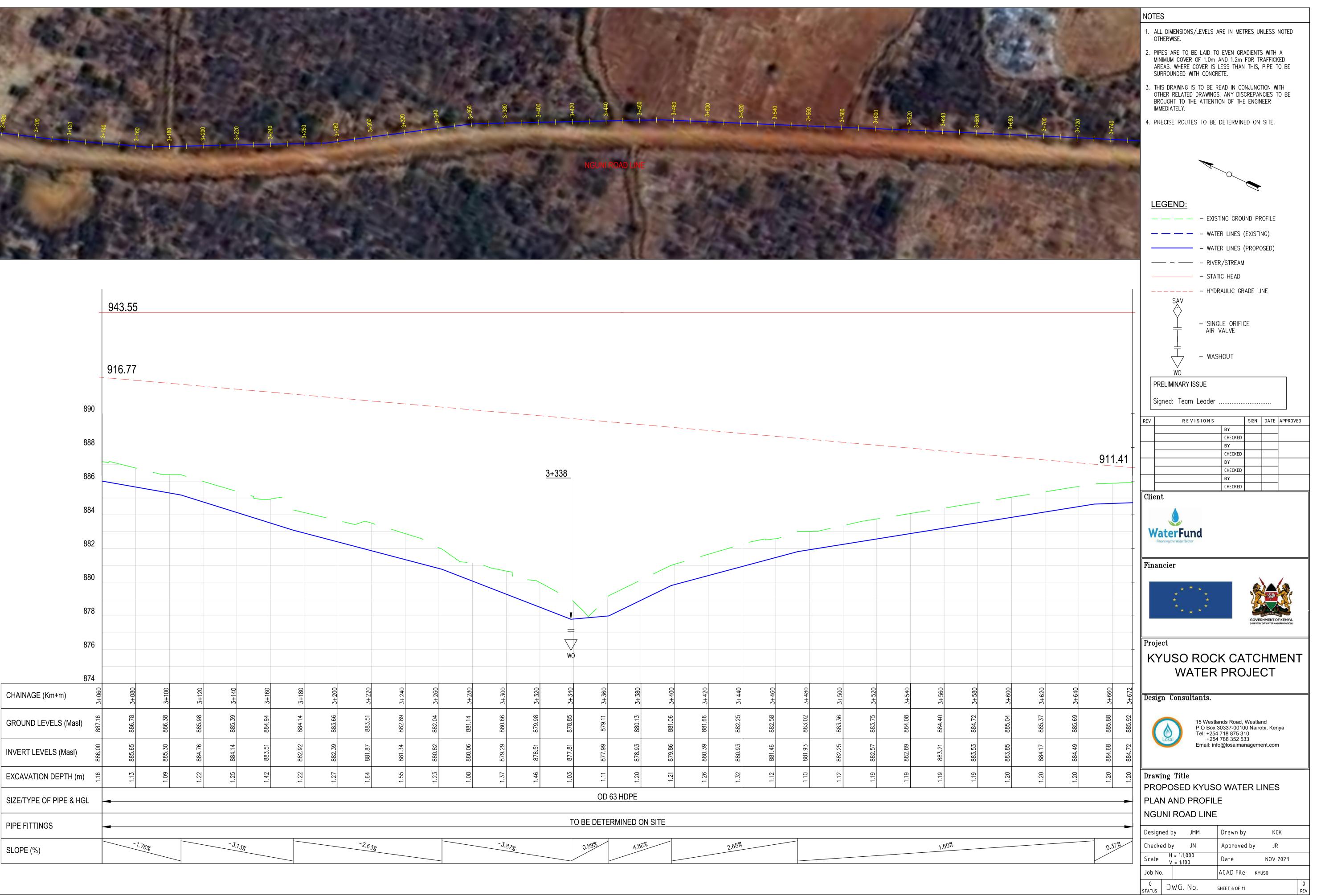
2+680	2+700	2+720	2+740	2+760	2+780	2+800	2+820	2+840	2+860	2+880	2+900	2+920	2+940	2+960	2+980	
889.11	889.02	888.92	888.84	888.86	888.86	888.78	888.71	888.63	888.56	888.50	888.45	888.47	888.57	888.64	888.40	
887.86	887.80	887.74	887.69	887.64	887.58	887.53	887.48	887.43	887.38	887.37	887.39	887.42	887.44	887.44	887.17	
1.25	1.22	1.18	1.15	1.22	1.27	1.25	1.23	1.21	1.19	1.13	1.05	1.05	1.13	1.20	1.24	
				OD 63 HD)PE											

TO BE DETERMINED ON SITE

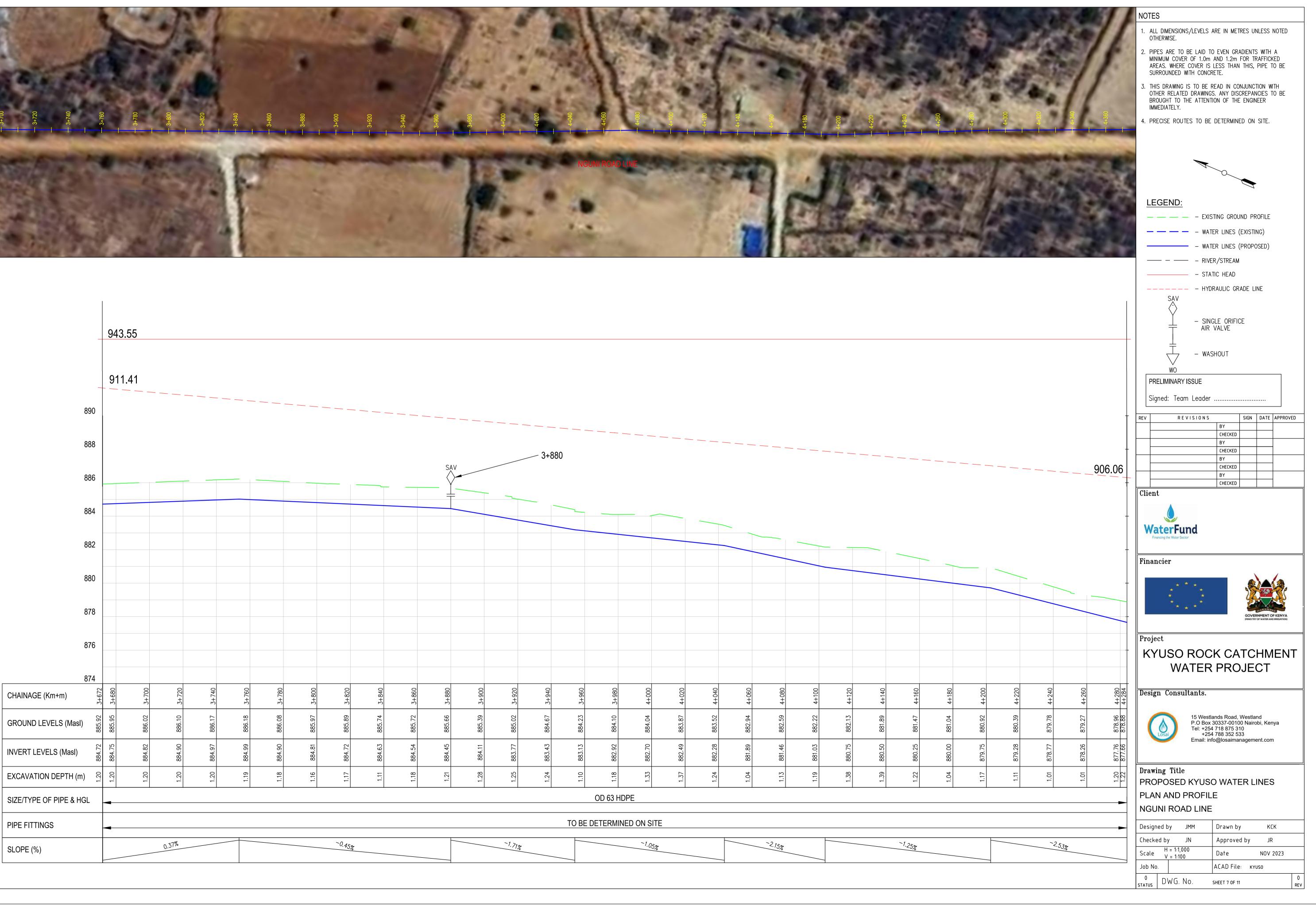
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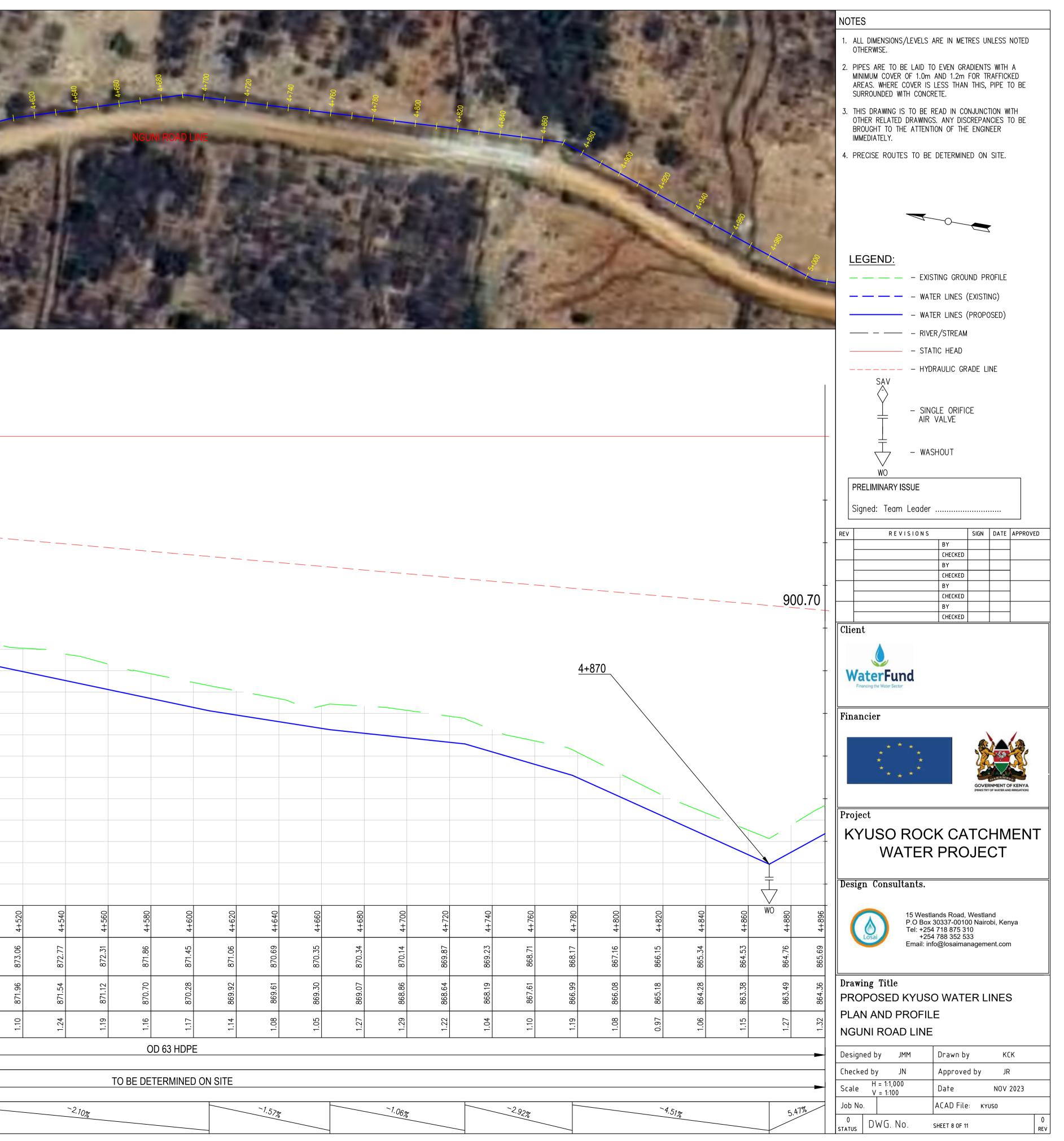




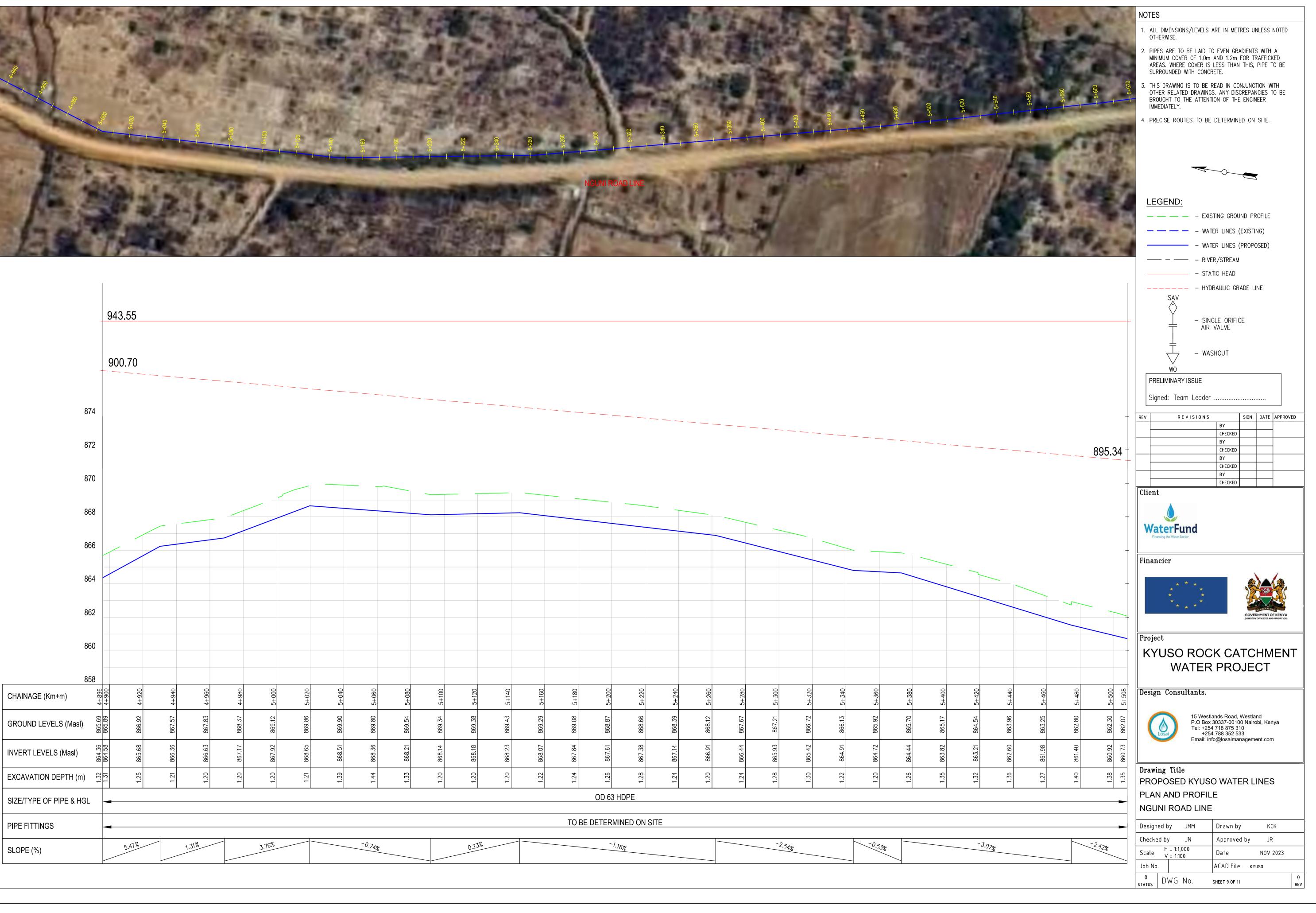


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AGE (Km+m)	4+284	4+320	4+340	4+360	4+380	4+400	4+420	4+440	4+460	4+480	4+500	4+520	4+540	4+560	4+580	4+600	4+620	4+640	4+660	4+680	4+700	4+720	4+740	4+760	4+780	4+800	
ND LEVELS (Masl)	8.49 4 8.49 4	877.92	7.34 4	6.80	876.53 4	6.02 4	5.52 4	4.95	48	4.01	3.41	73.06 4	2.77 4	872.31 4	871.86 4	.45	1.06 4	70.69 4	0.35 4	0.34 4	870.14 4	9.87 4	9.23 4	8.71 4	8.17 4	7.16 4	
ە 	.00 87. 25 87.		16 87	60 87		37 87	.20 87	87	27 874.	81 87	88 87		54 87			28 871	32 87	<u>∞</u>	87	07 87		64 86	19 86	01 86	99 86	86	
T LEVELS (Masl)	877.	876.	876.1	875.	875.13	874.6	874.2	873.74	873.27		872.38	871.96	871.5	871.12	870.70	870.28	869.9	869.61	869.30	869.0	868.86	868.6	868.1	867.61	866.99	866.0	
/ATION DEPTH (m) ရှိ	1.22	1.20	1.18	1.20	1.39	1.35	1.31	1.21	1.20	1.20	1.03	1.10	1.24	1.19	1.16	1.17	1.14	1.08	1.05	1.27	1.29	1.22	1.04	1.10	1.19	1.08	
YPE OF PIPE & HGL															OD 6	3 HDPE											

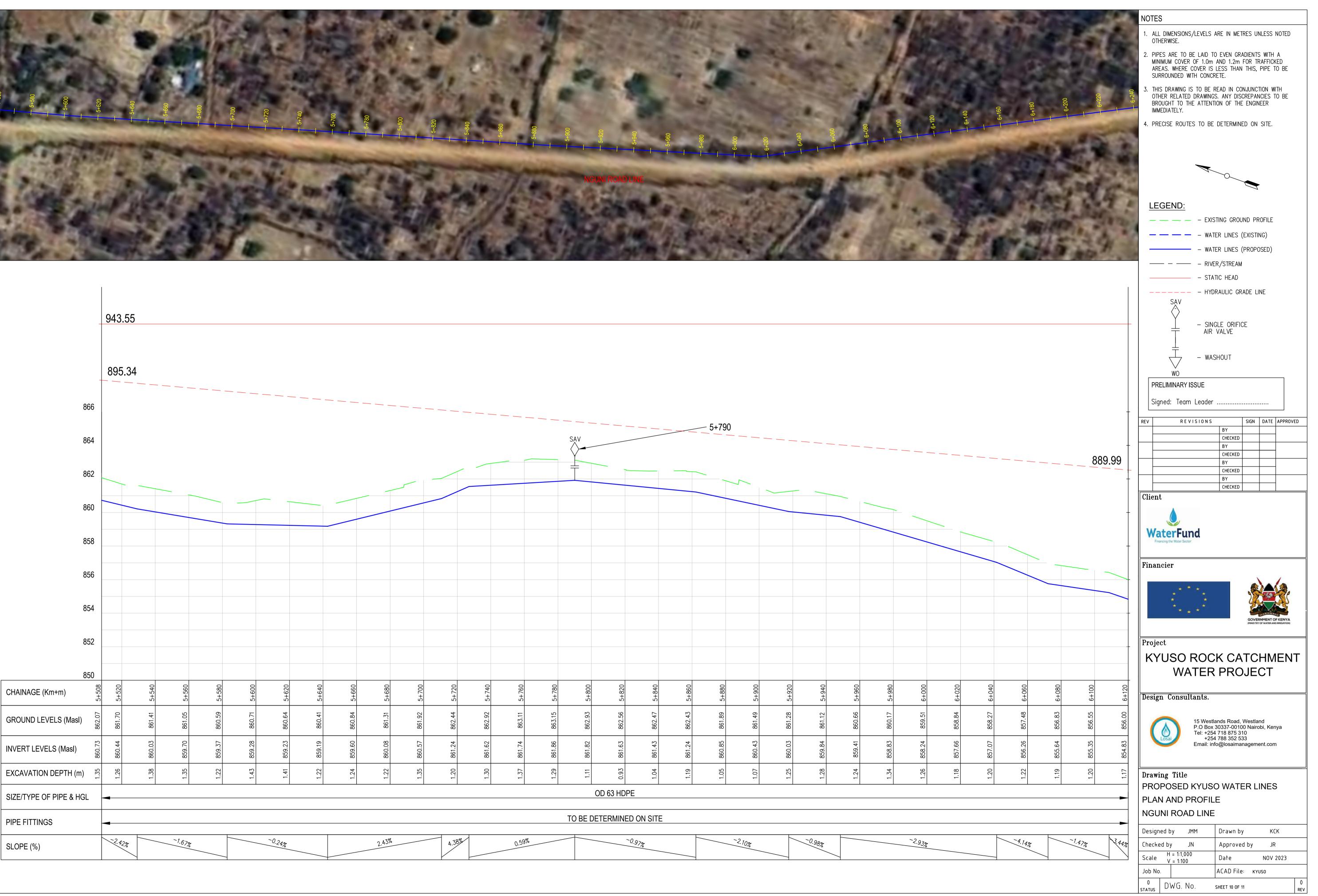




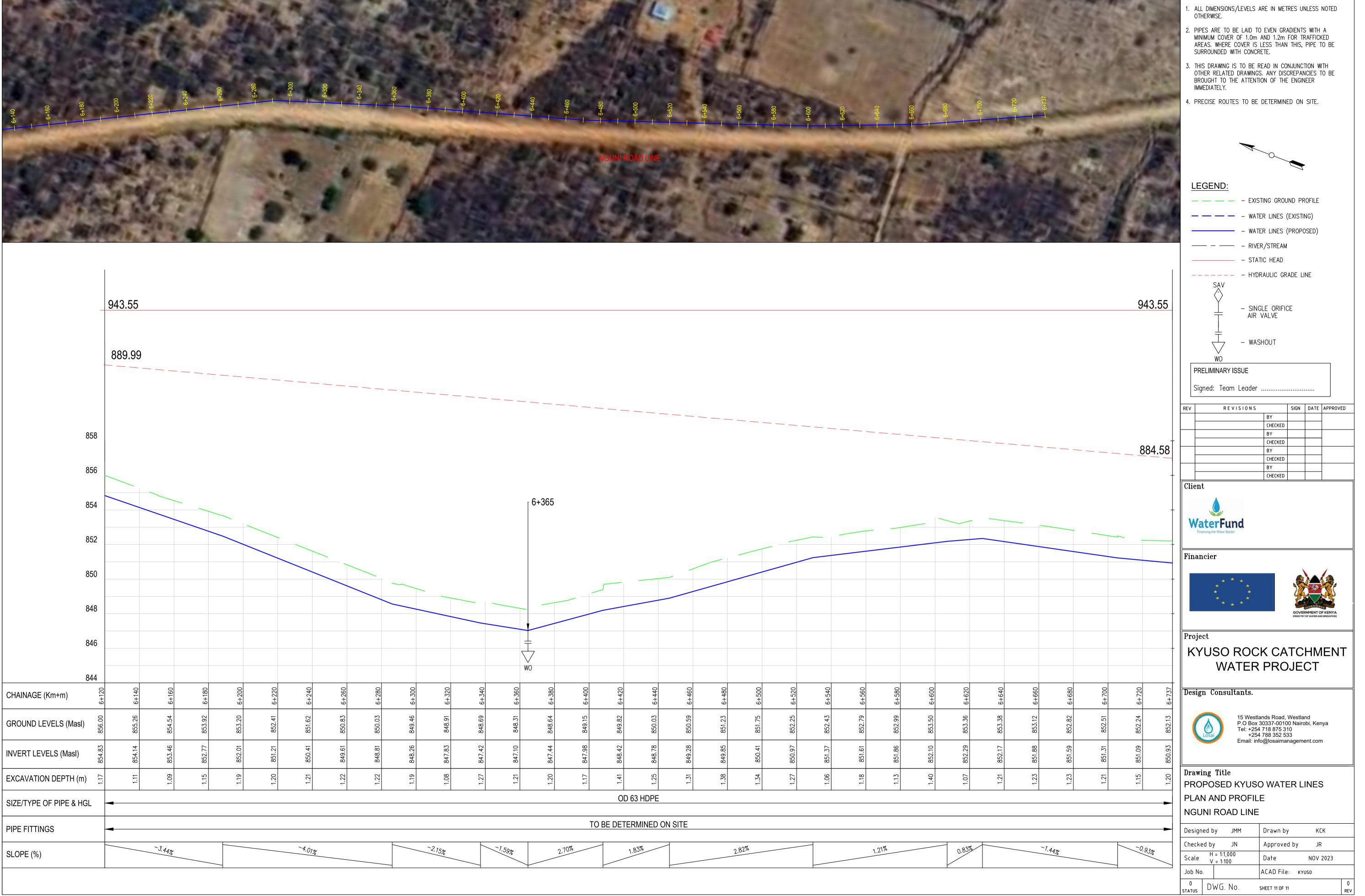






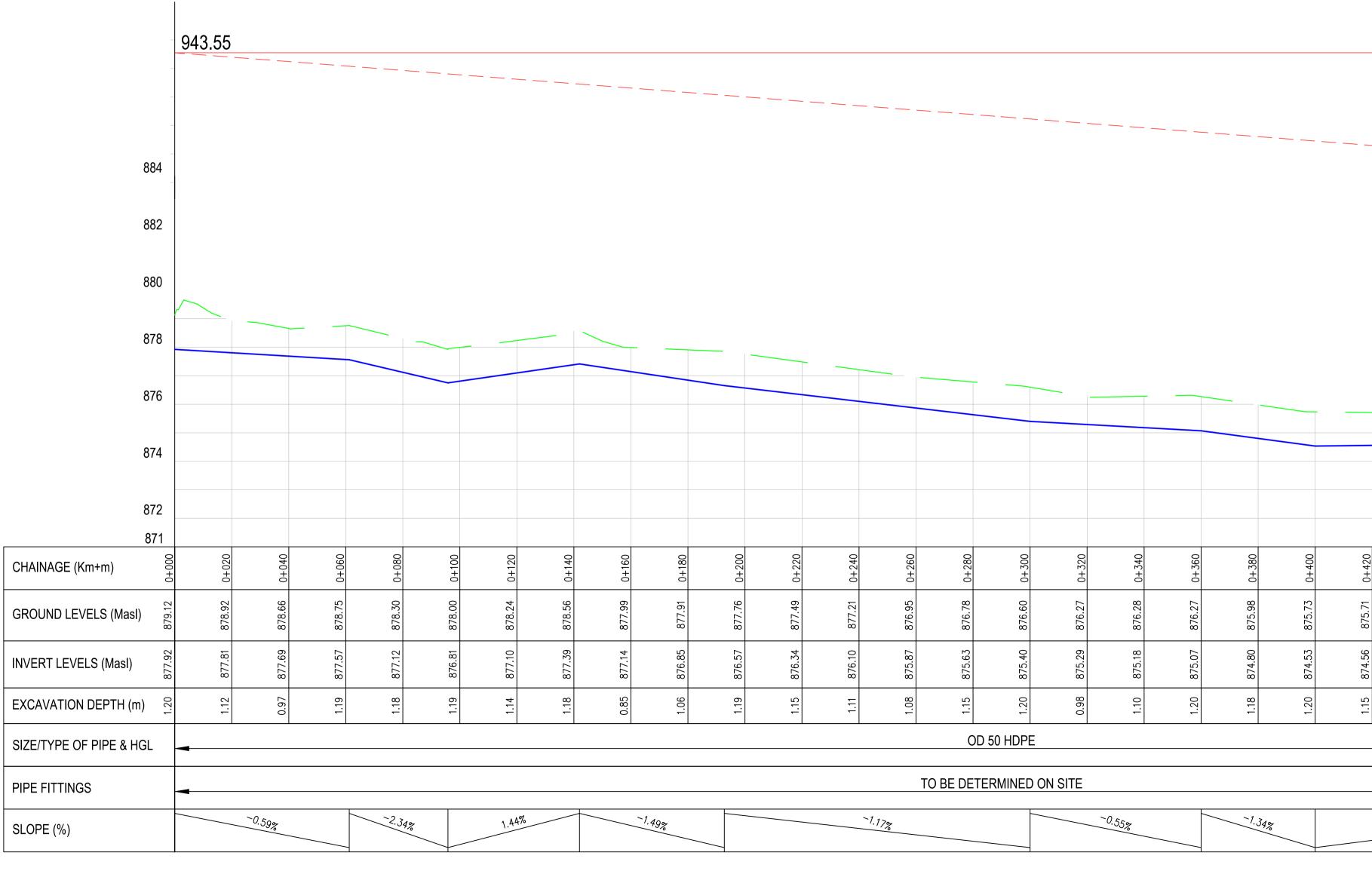






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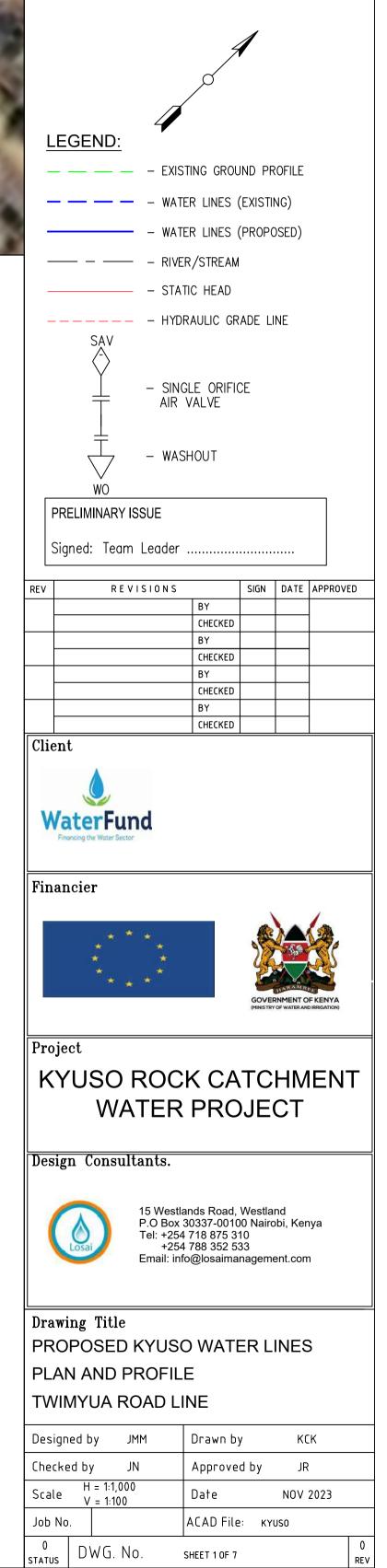


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877.49	877.21	876.95	876.78	876.60	876.27	876.28	876.27	875.98	875.73	875.71	875.69	5.77	875.94	875.94	876.17	876.38
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- 2. PIPES ARE TO BE LAID TO EVEN GRADIENTS WITH A MINIMUM COVER OF 1.0m AND 1.2m FOR TRAFFICKED AREAS. WHERE COVER IS LESS THAN THIS, PIPE TO BE SURROUNDED WITH CONCRETE.
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- 4. PRECISE ROUTES TO BE DETERMINED ON SITE.



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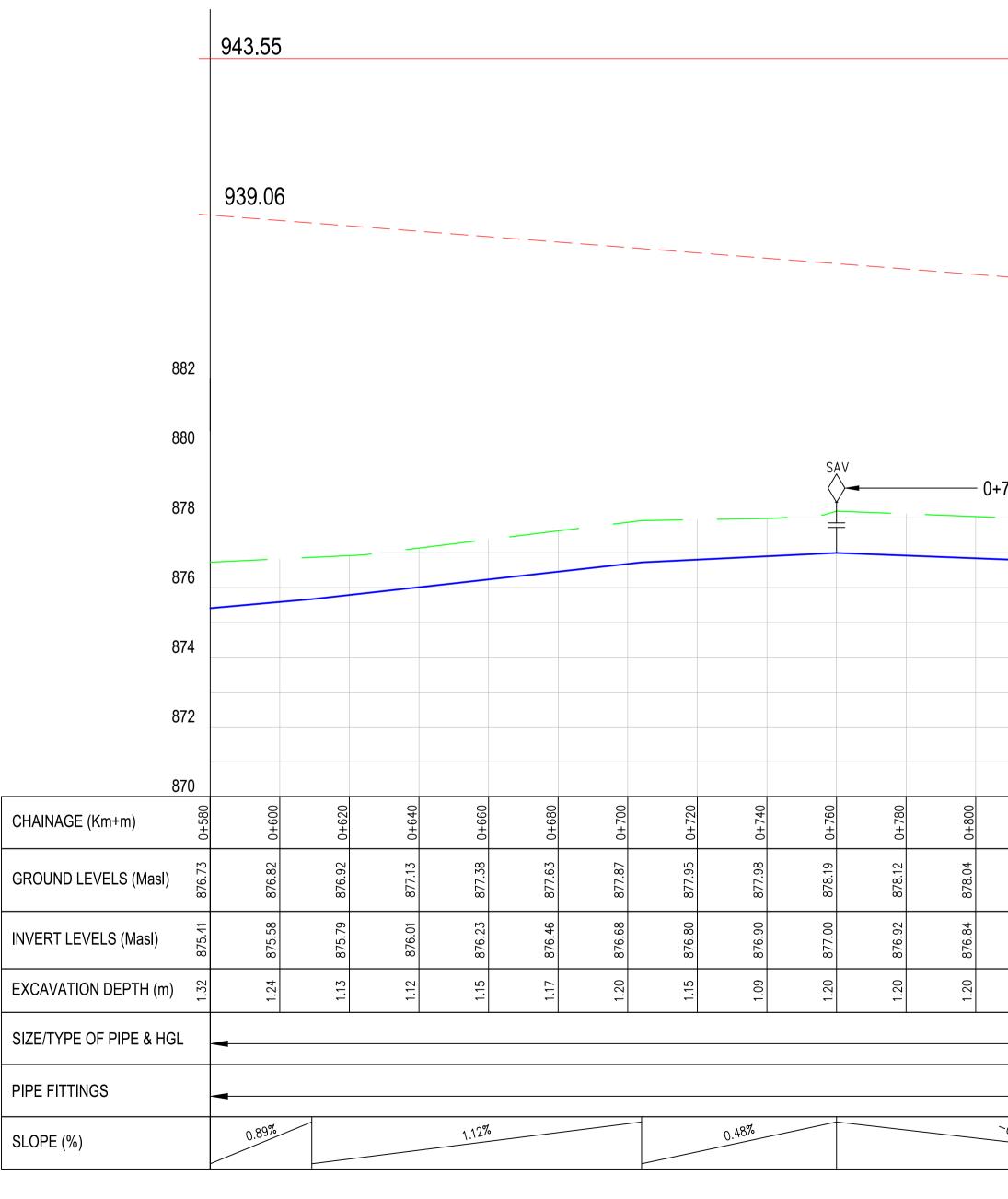
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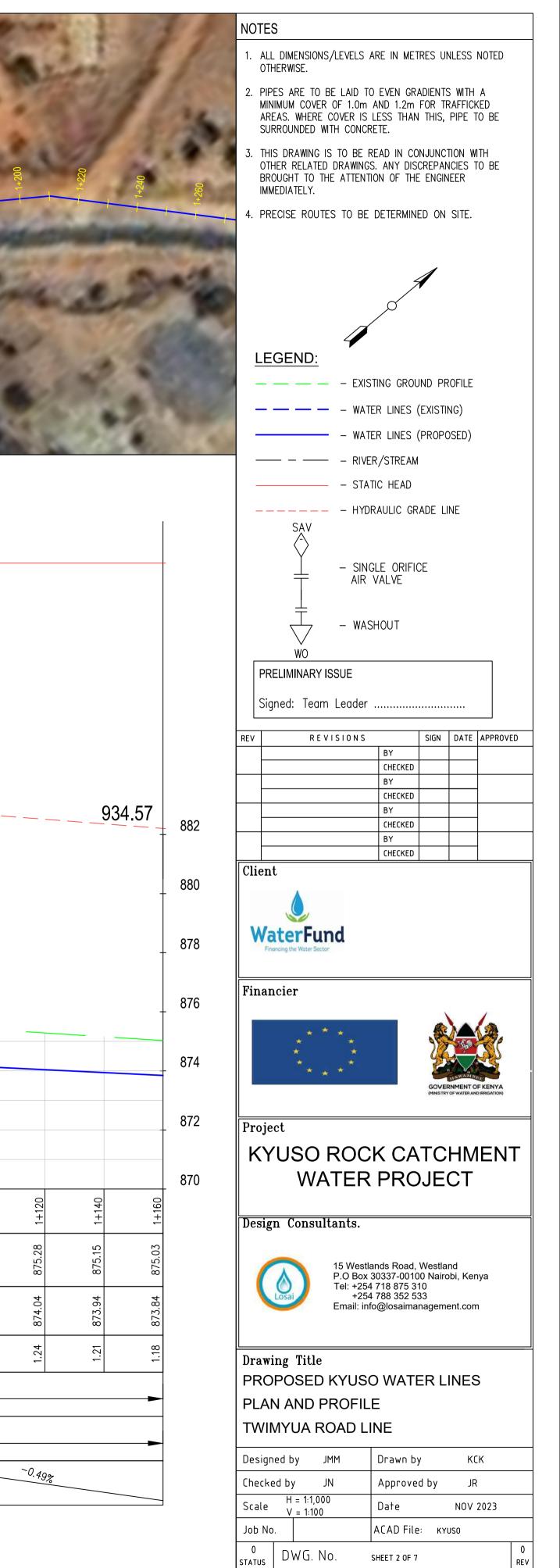
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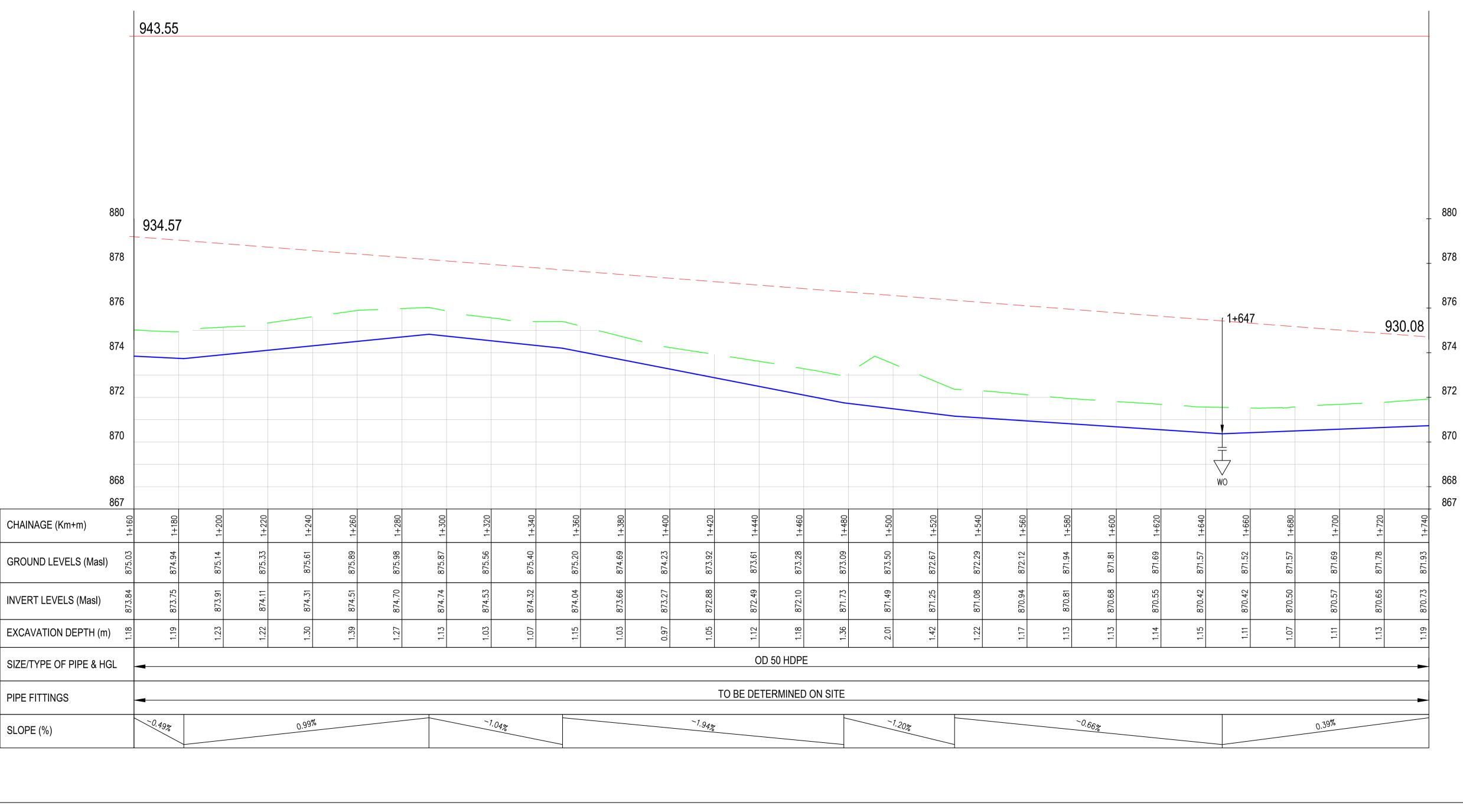


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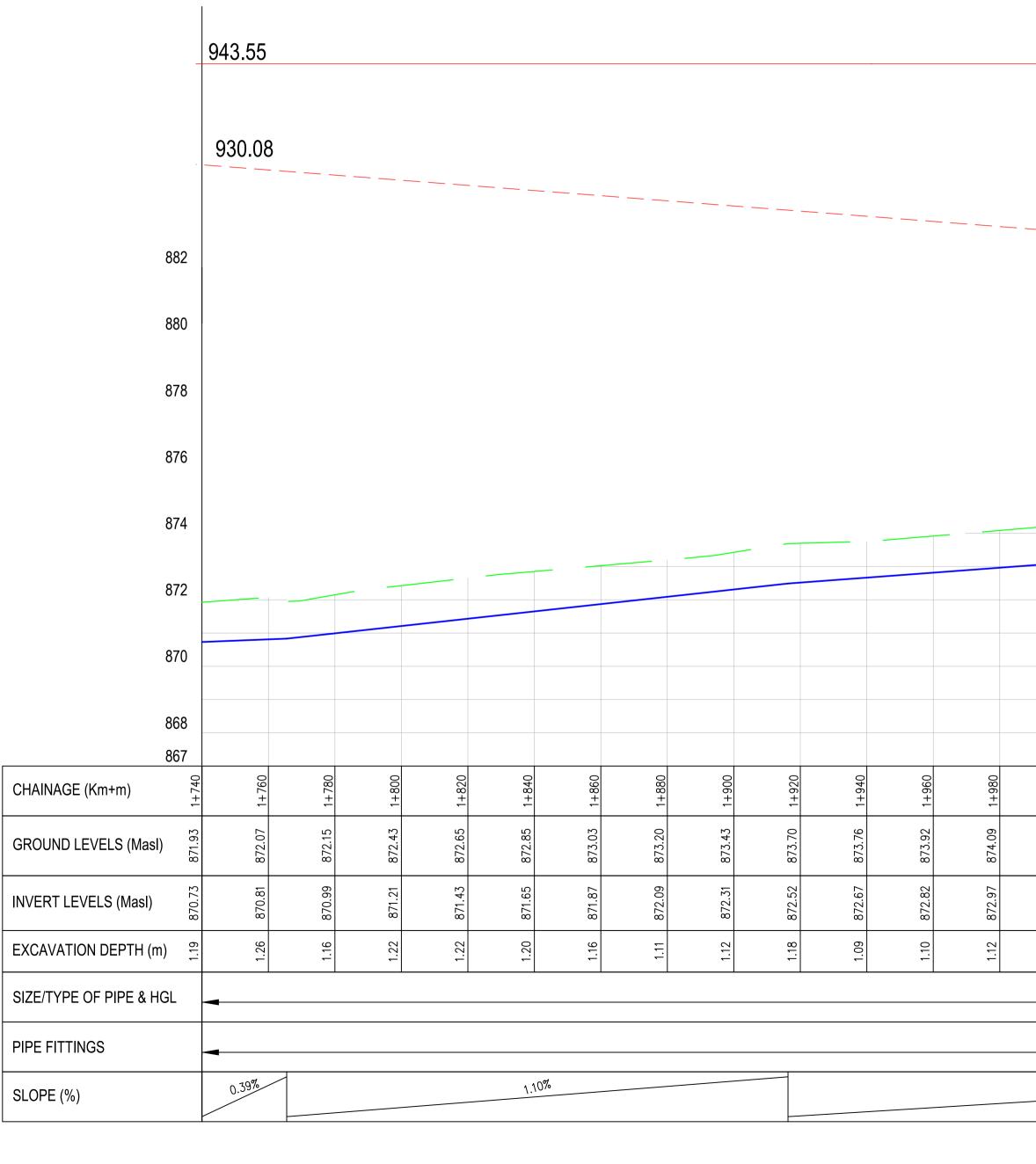




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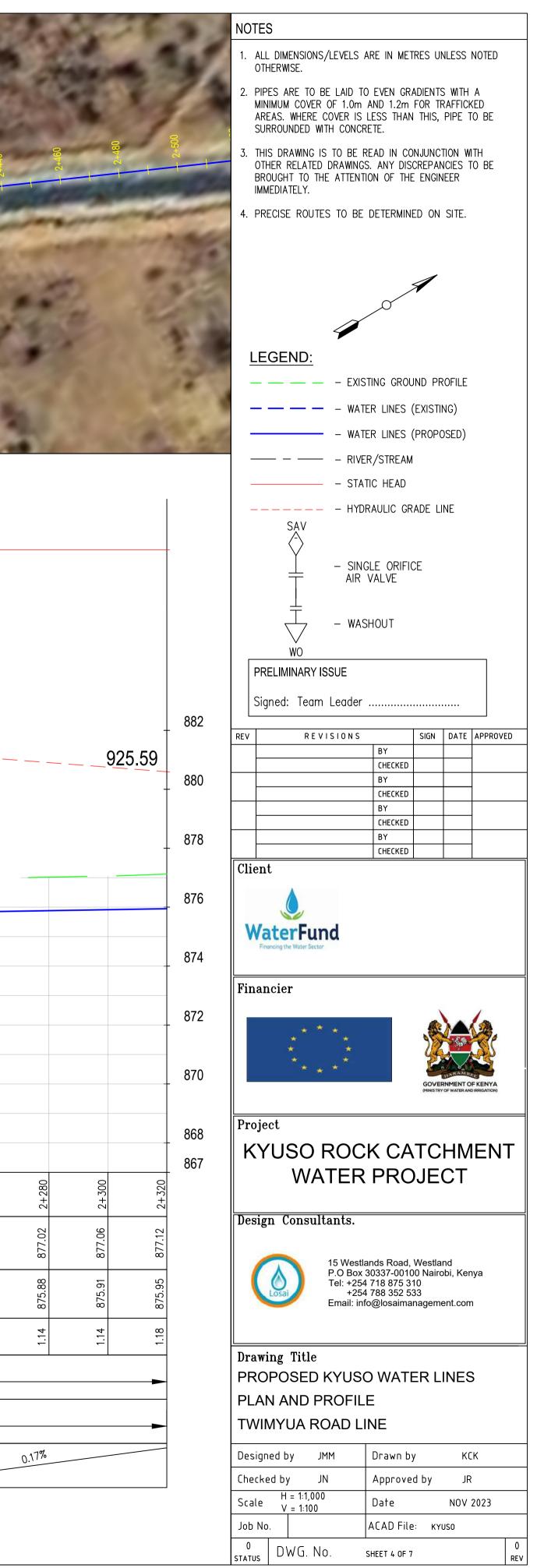
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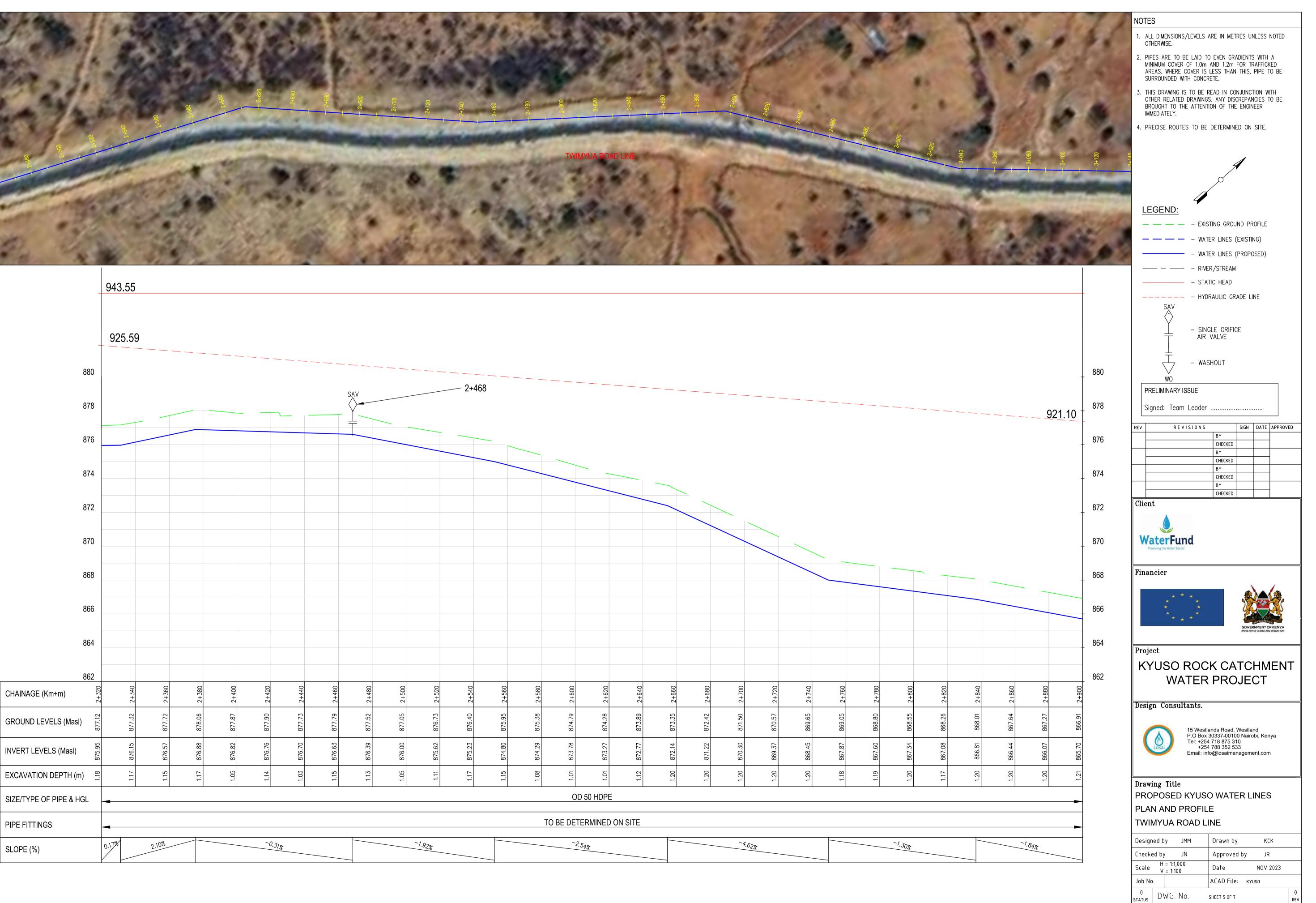


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872.82	872.97	873.12	873.26	873.41	873.56	873.71	873.86	874.10	874.41	874.72	875.03	875.34	875.65	875.81	875.85	
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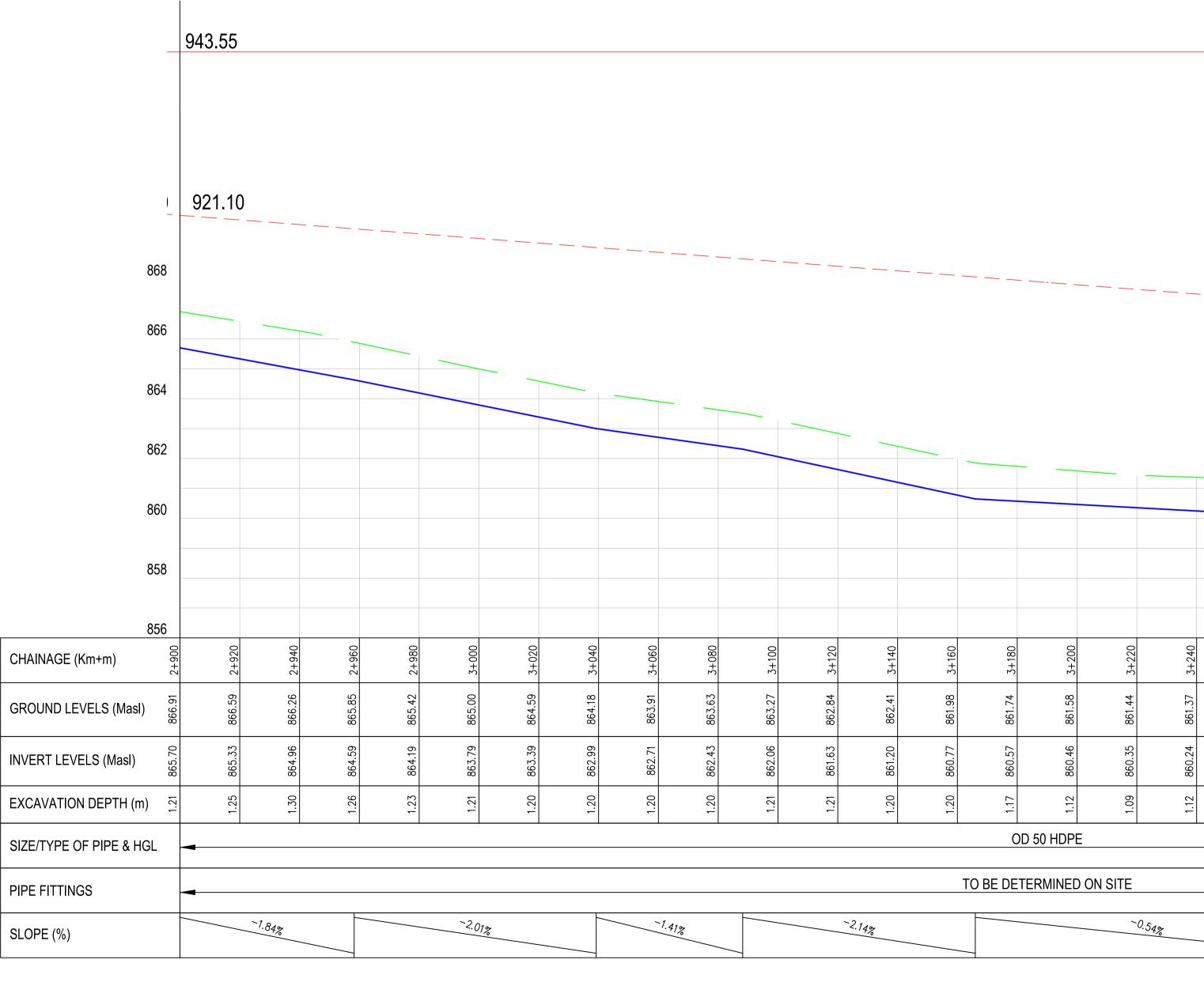






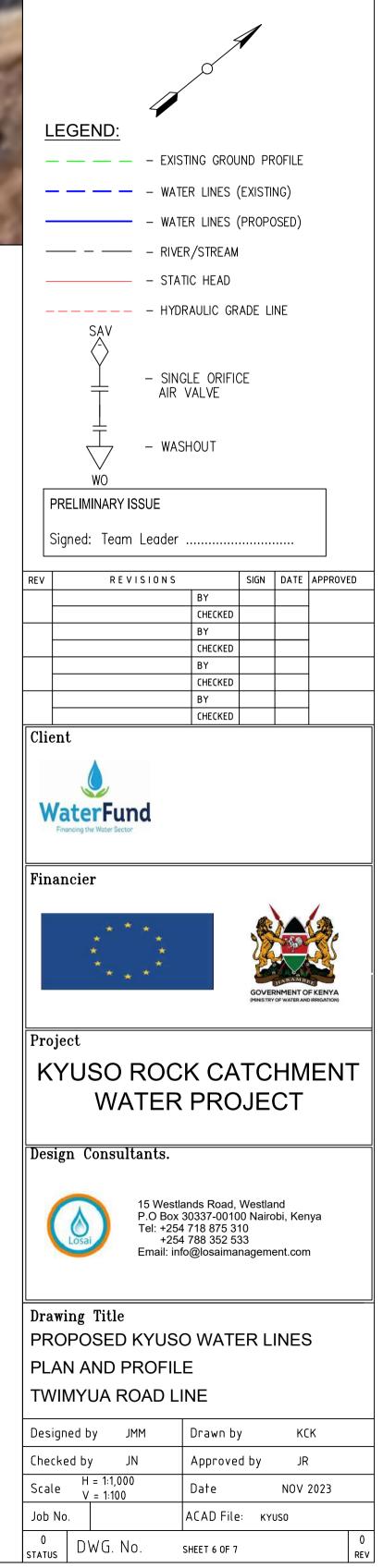
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862.84	862.41	861.98	861.74	861.58	861.44	861.37	861.30	861.23	861.15	861.08	861.01	860.77	860.70	860.78	860.86	860.93	861.09
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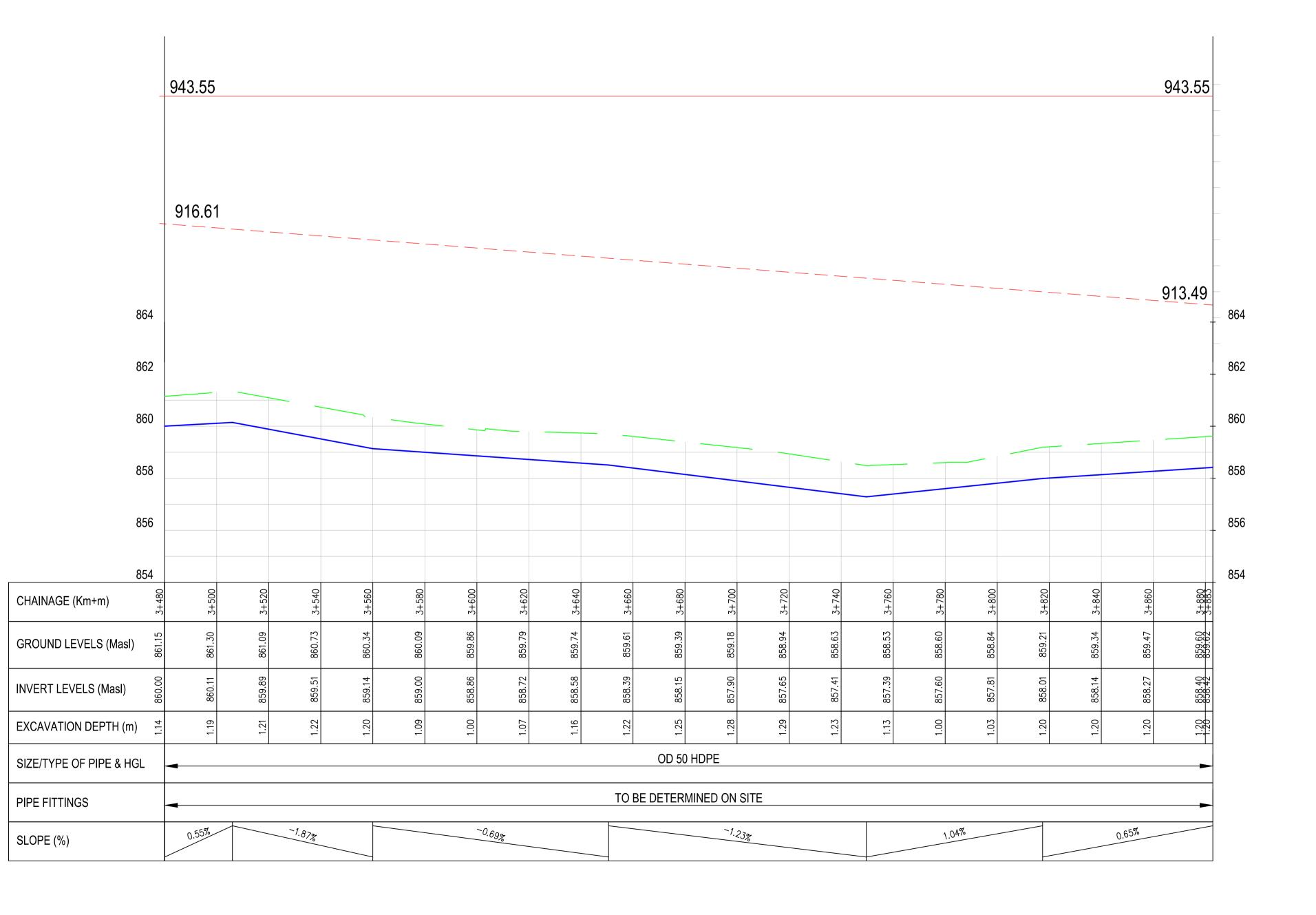
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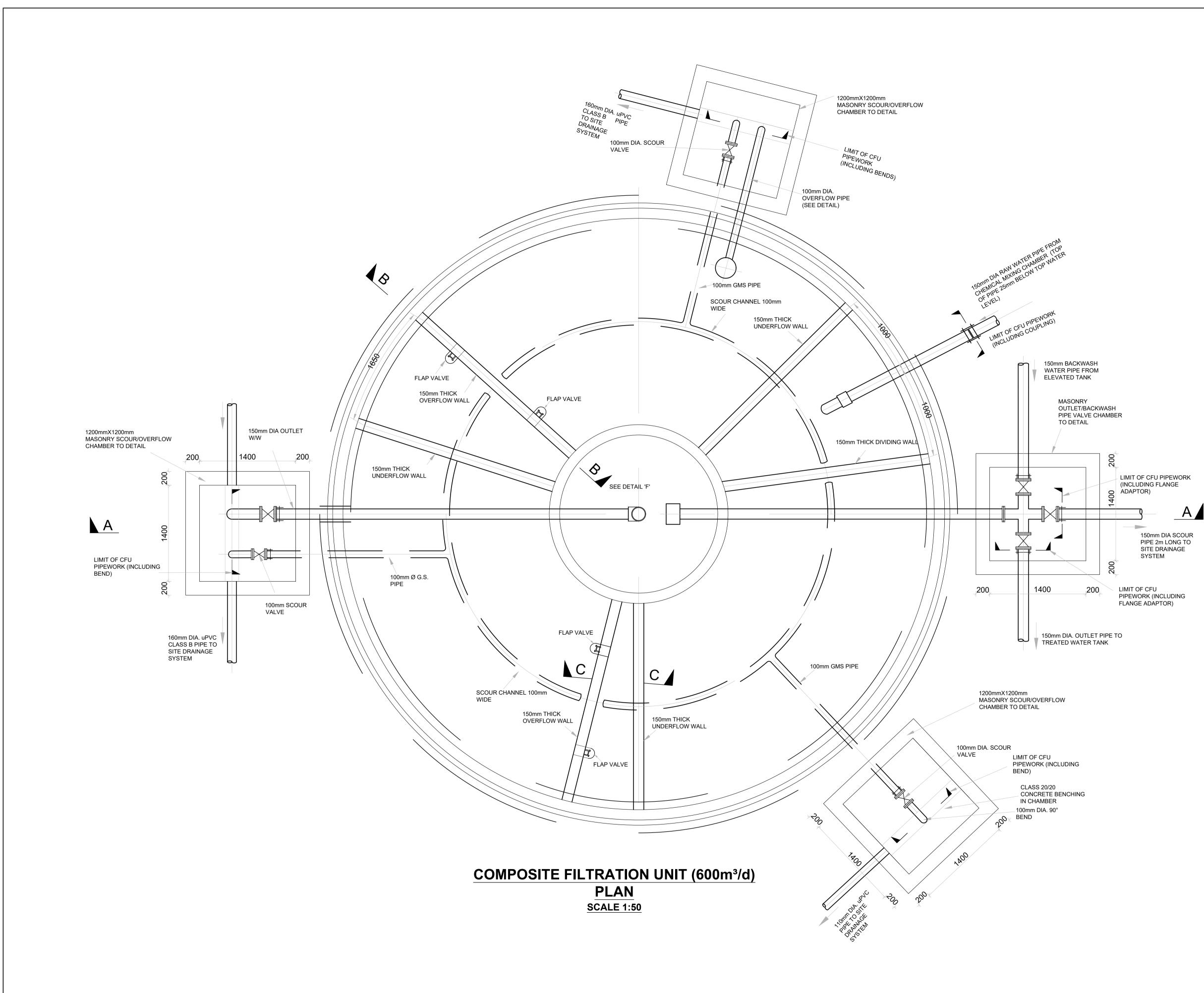
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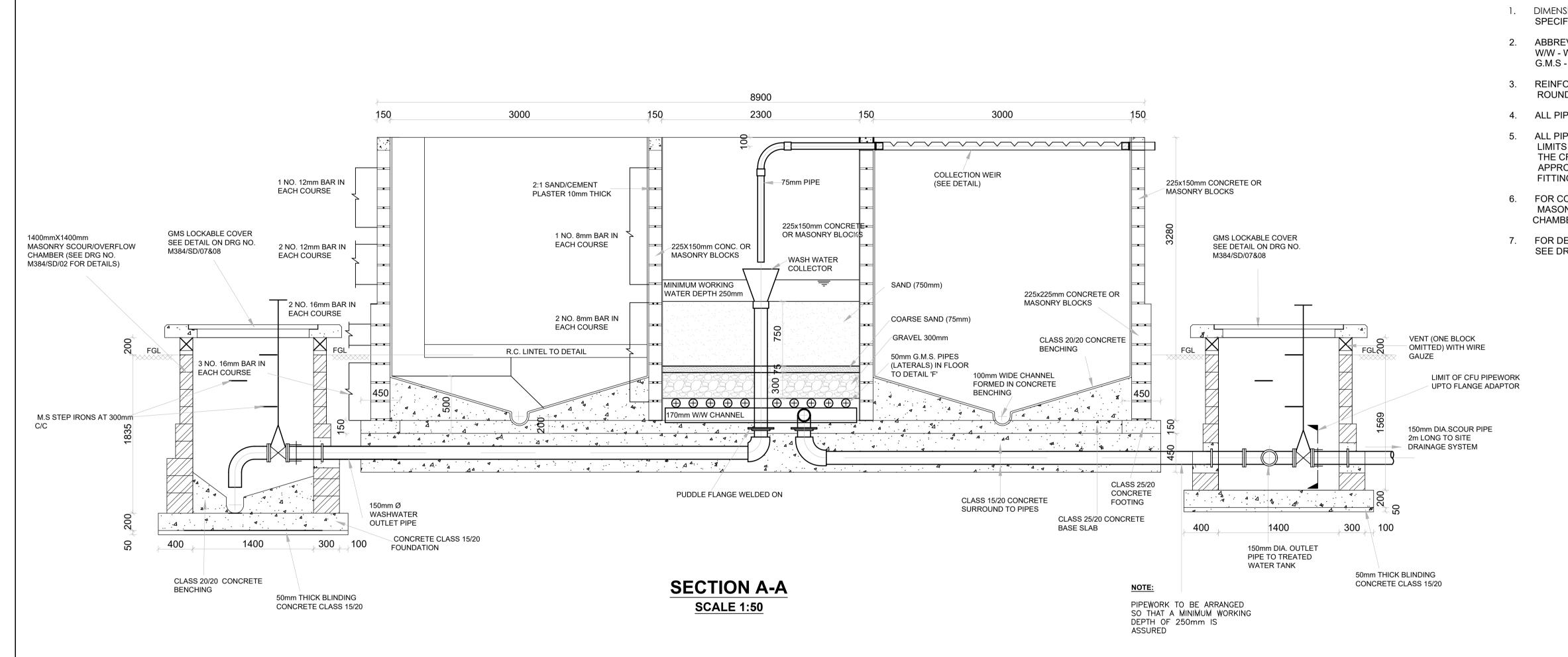


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MATERIAL	DIAMETER (mm)	DEPTH IN mm	LOCATION
GRAVEL	38-20	75	BOTTOM
	20-12	75	n
	12-5	75	n
	5-2	75	
COARSE SAND EFFECTIVE SIZE	1.0	75	MIDDLE
SAND EFFECTIVE SIZE	0.5		
UNIFORMITY COEFFICIENT	1.5	750	ТОР
TOTAL THICKNES	S OF FILTER BED	1125	

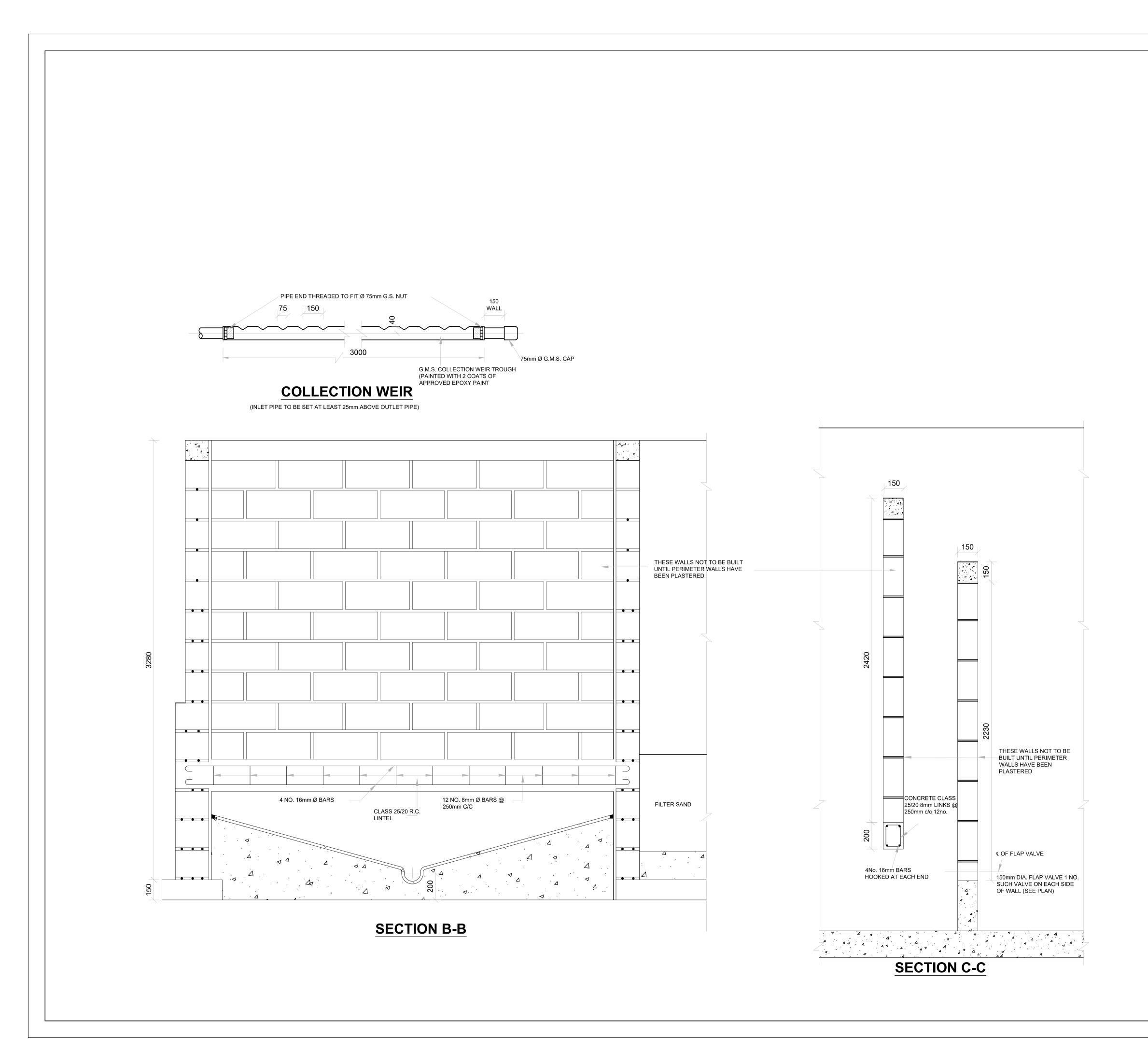
FILTER MEDIA DETAILS

DETAILS OF LATERALS

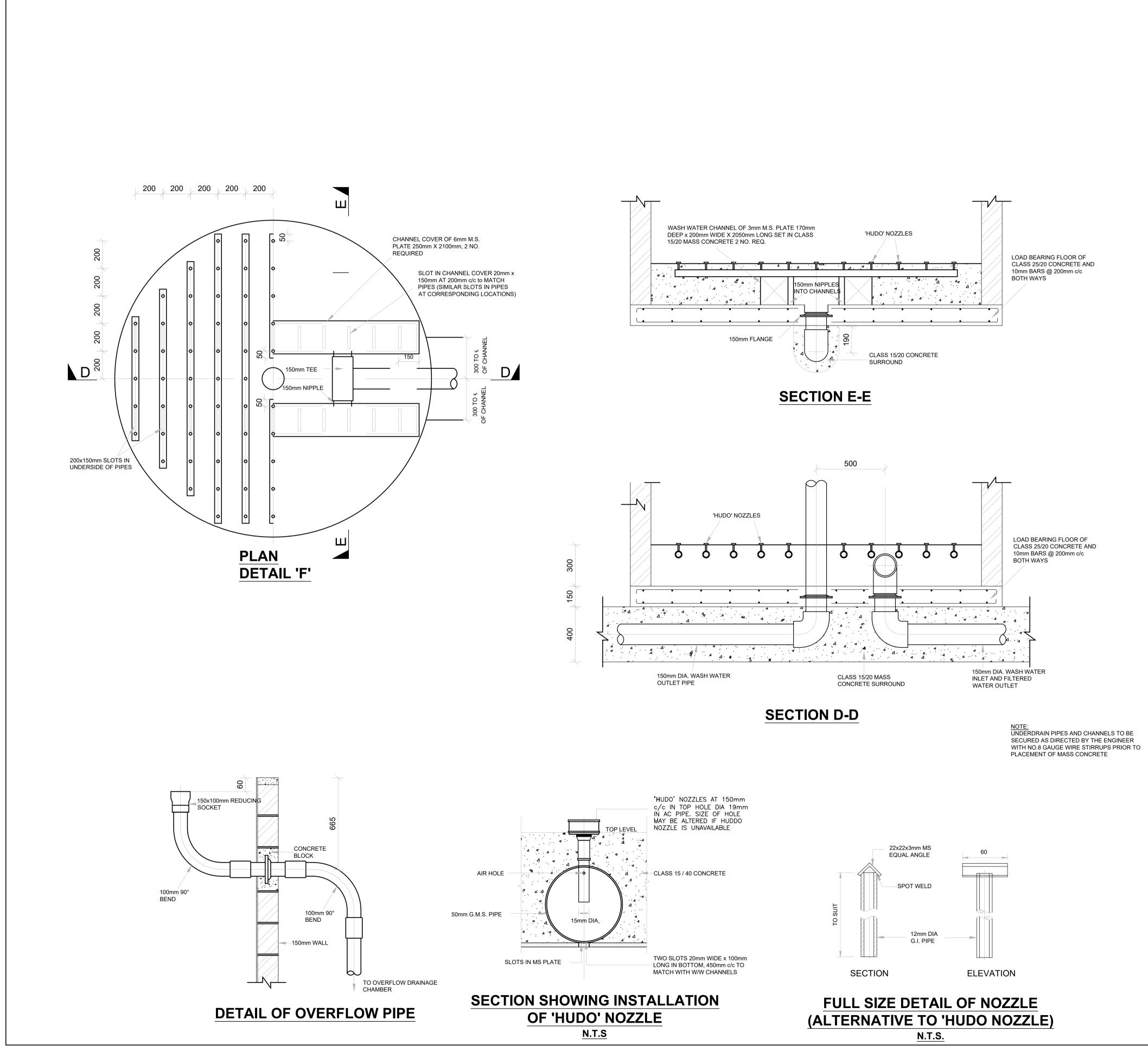
OVERALL LENGTH	NO. OF HOLES PER PIPES	NO. REQUIRED
900	5	4
1300	7	2
1700	9	2
2100	11	4

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	Client Client Financier Financier Project KYUSO ROCK CATCHMENT WATER PROJECT Design Consultants. Design Consultants. IS Westlands Road, Westland P.O Box 30337-00100 Nairobi, Kenya Tel: +254 718 875 310 +254 718 852 533 Email: info@losaimanagement.com Drawing Title KYUSO LAYOUT PLAN TREATMENT WORKS
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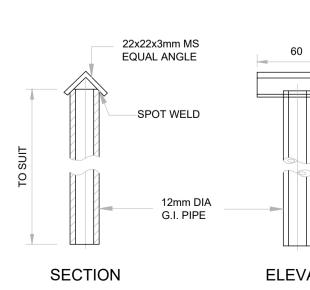
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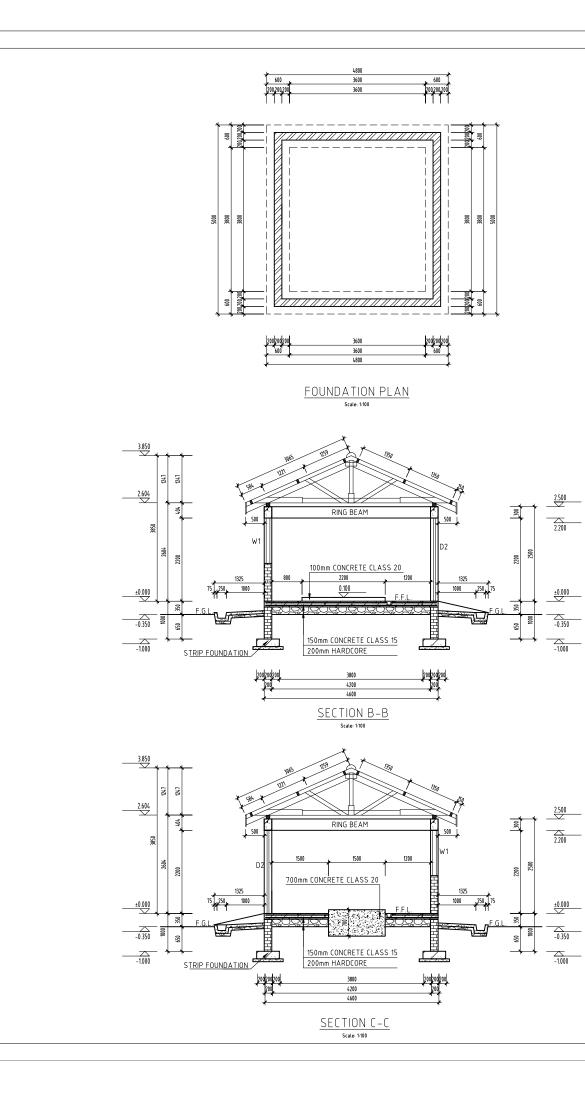


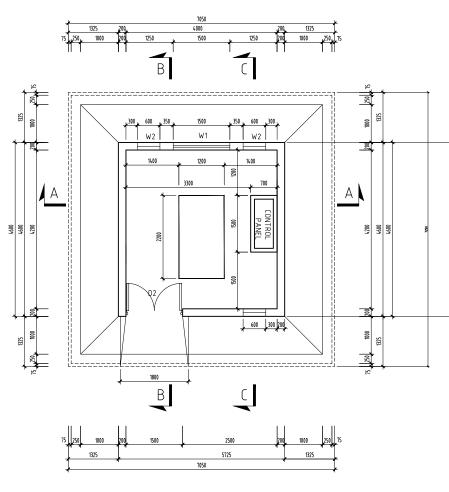




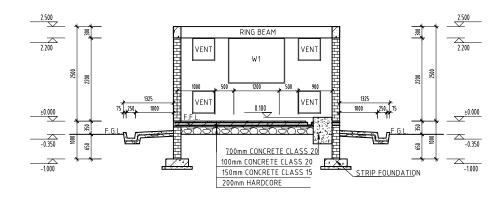
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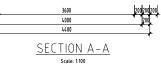
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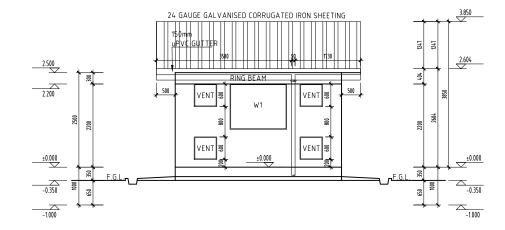
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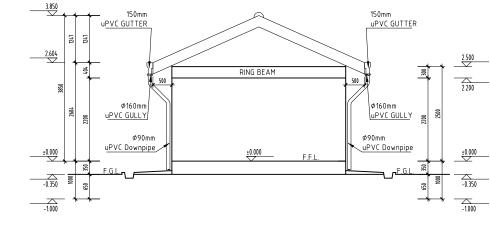


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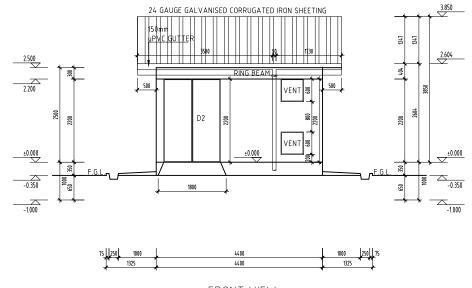






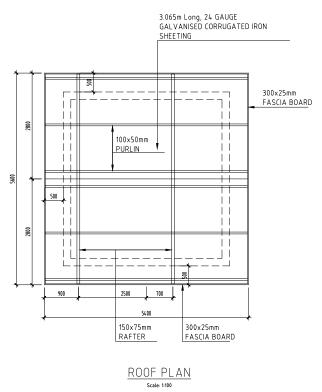


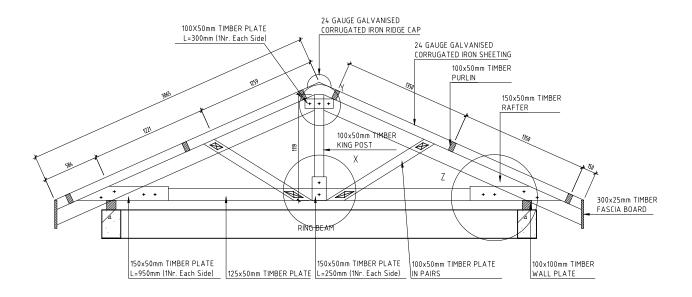
SIDE VIEW Scale: 1:100



FRONT VIEW Scale: 1:100

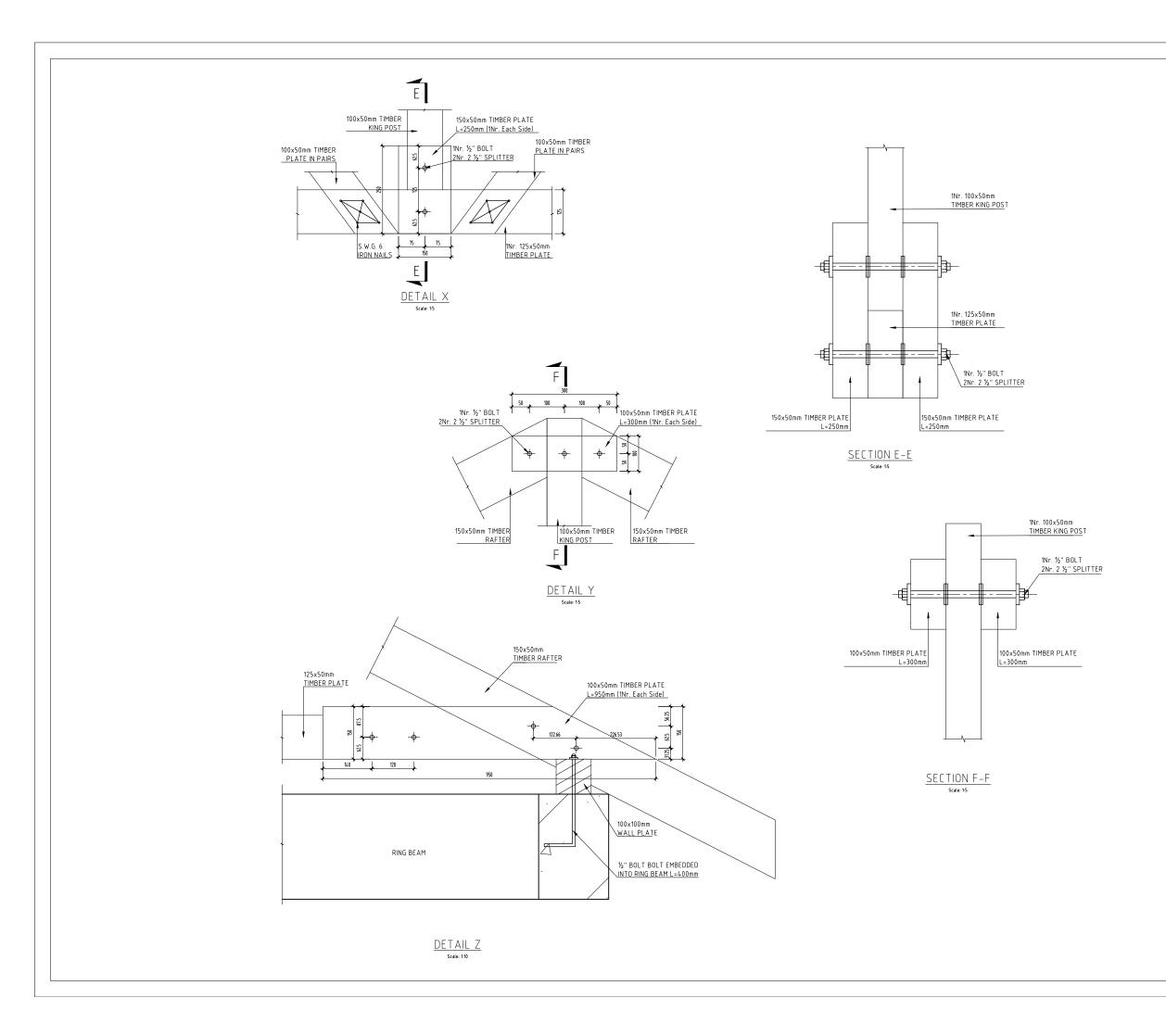
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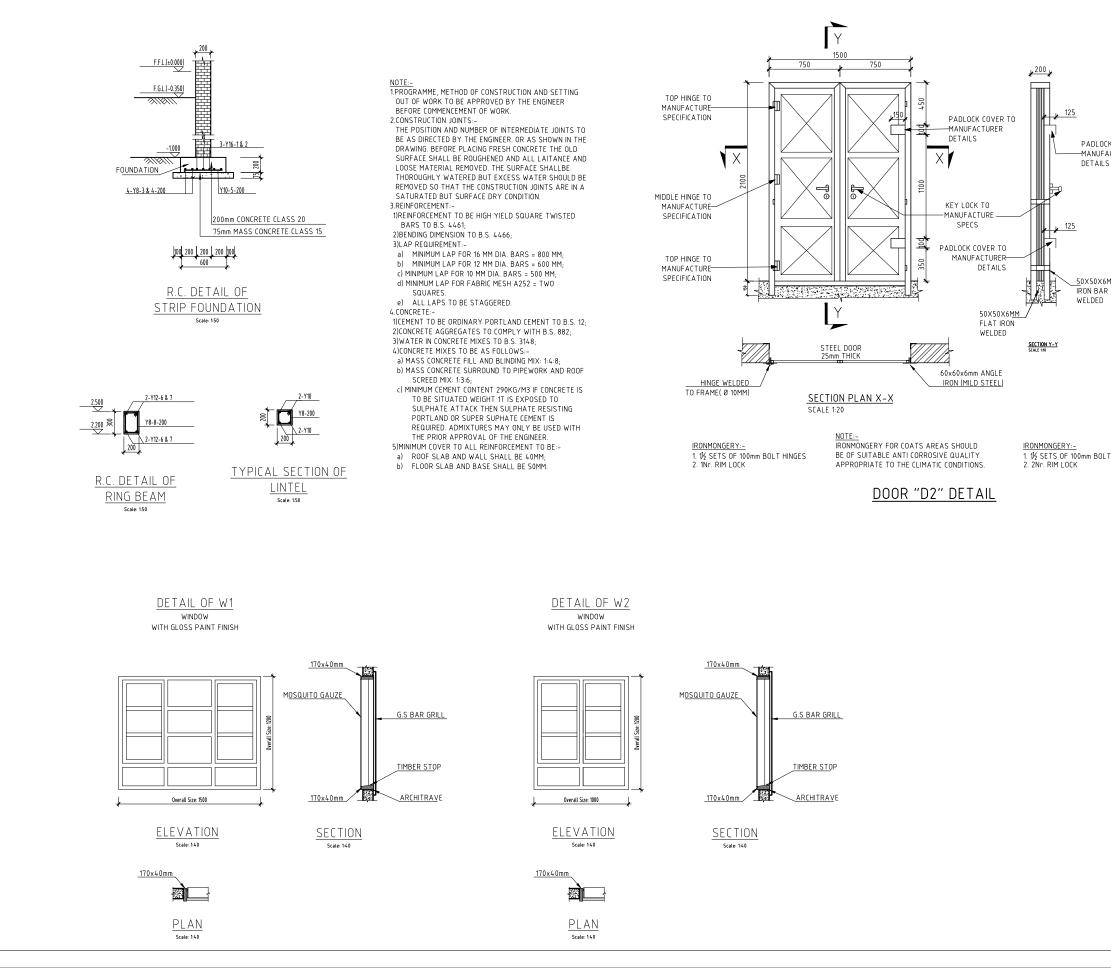


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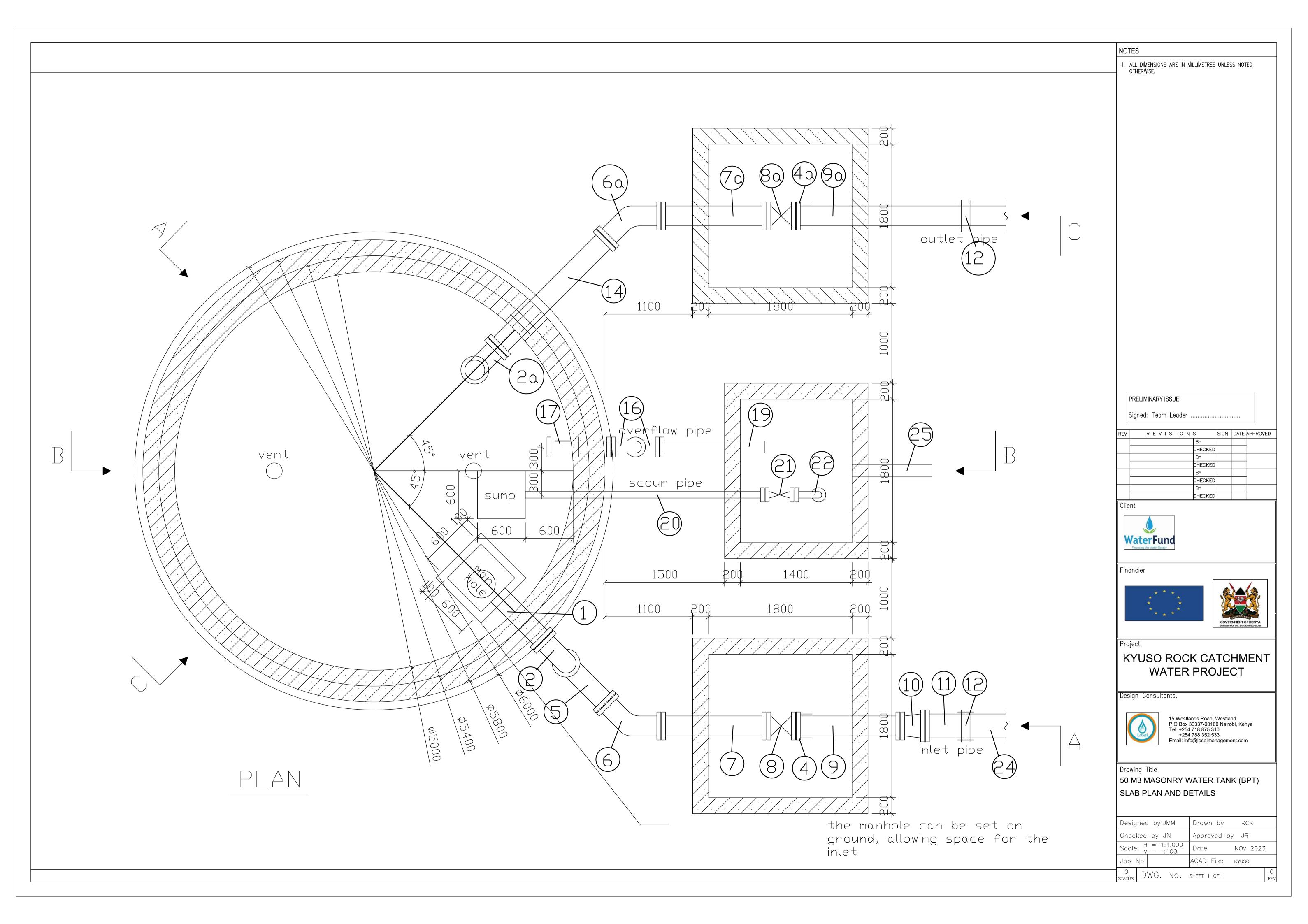
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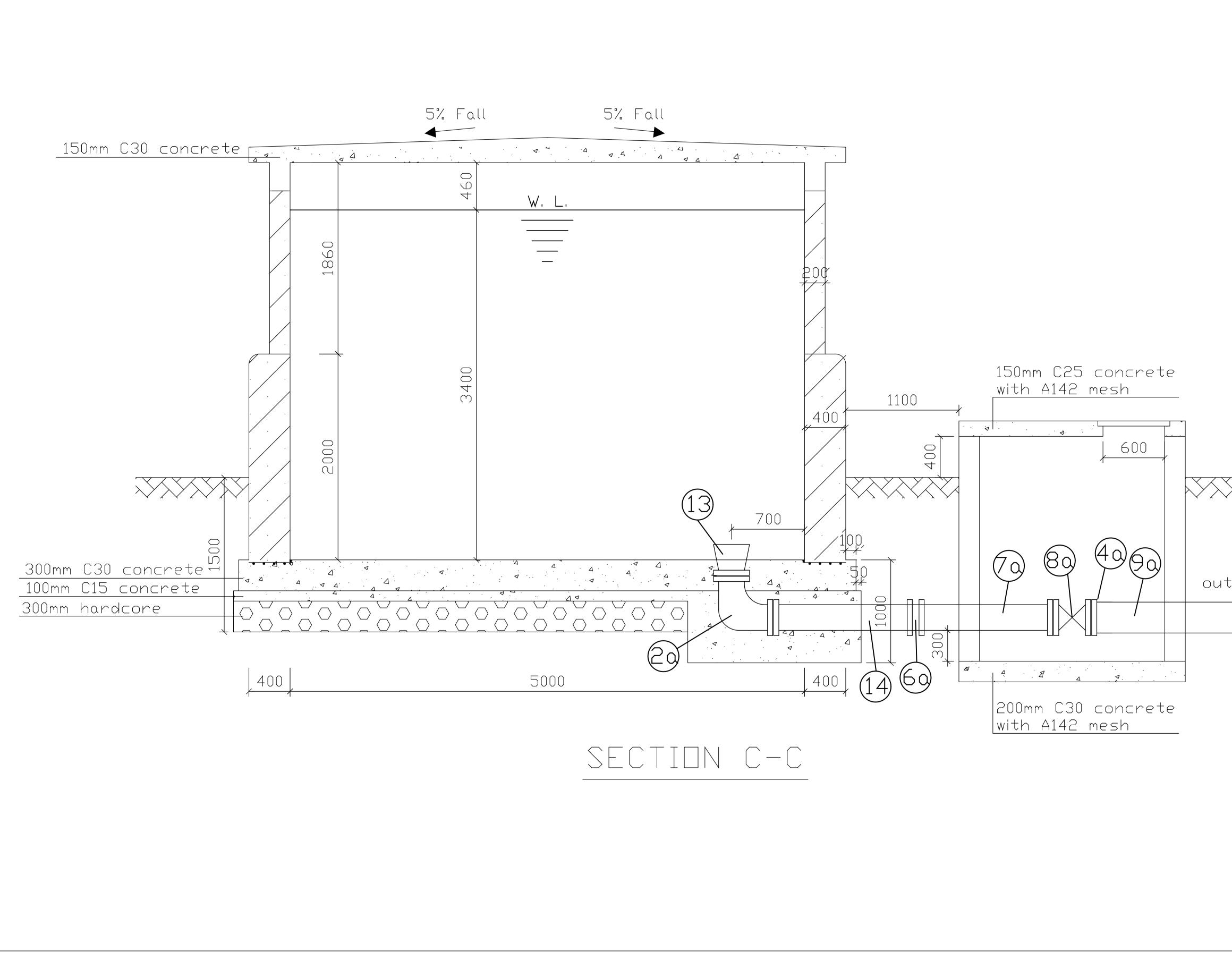


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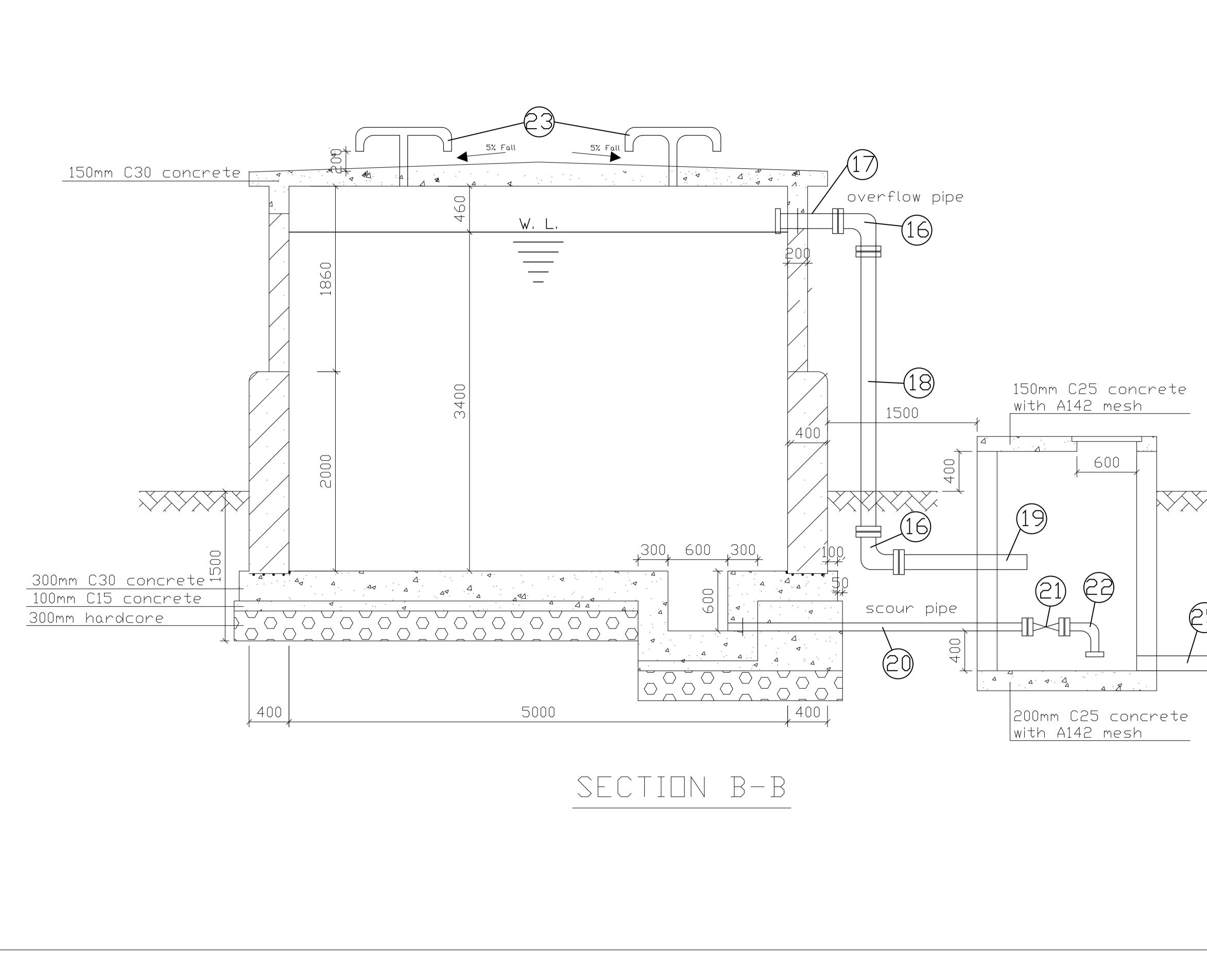


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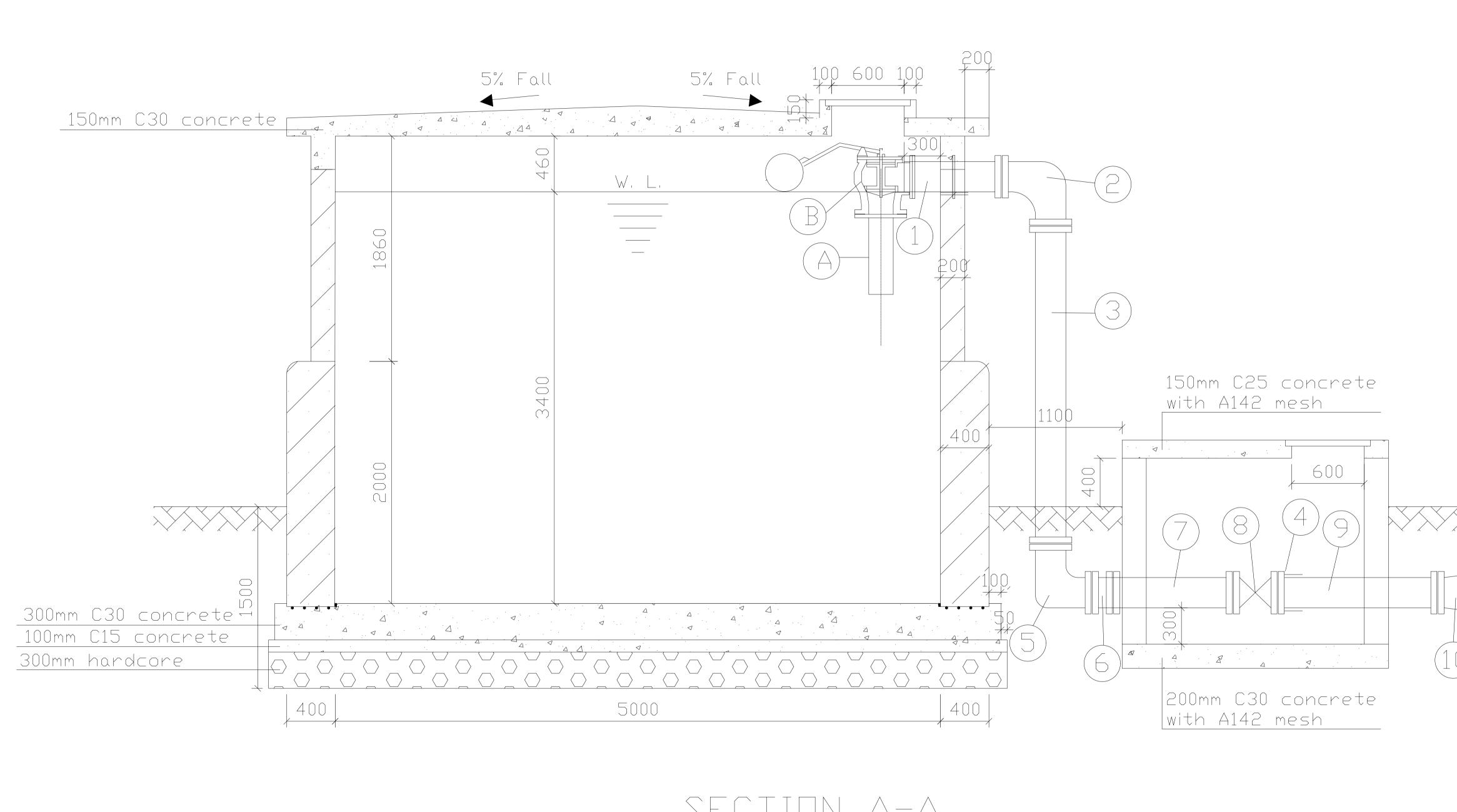




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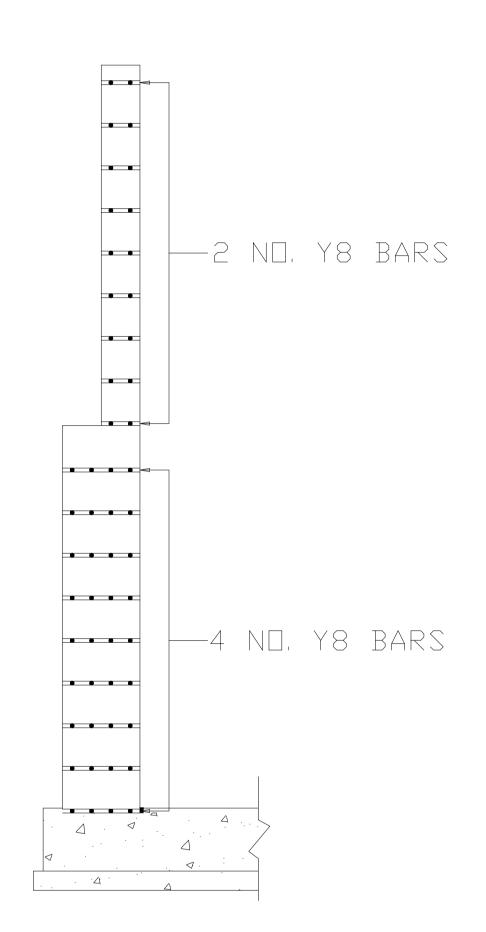
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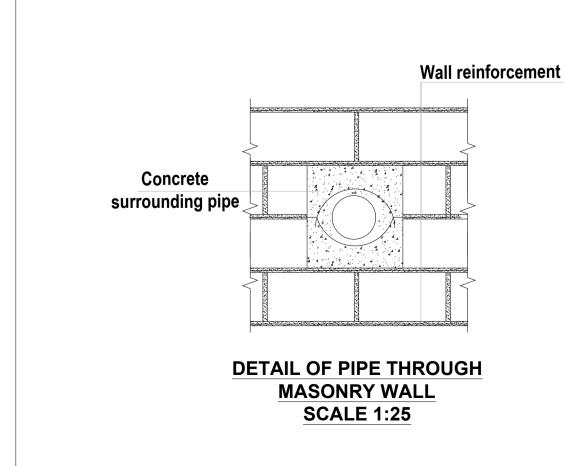
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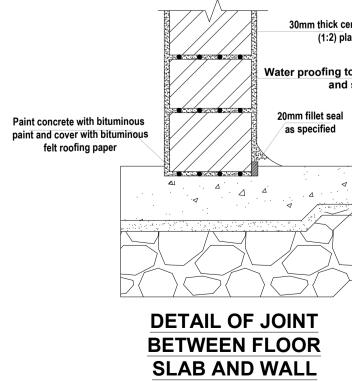
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	Email: info@losaimanagement.com Drawing Title 50 M3 MASONRY WATER TANK (BPT) SECTION DETAILS

ITEM		DESCRIPTION	DIA(mm)	LENGTH(mm)
	A	SINGLE FLANGED PIPE WITH PUDDLE FLANGED	50	L = 400
	В	FLANGED BEAT EQUILIBRIUM FLOAT VALVE	50	
	1	SINGLE FLANGED PIPE WITH CENTRAL PUDDLE FLANGE	50	L=800
	2	90° DOUBLE FLANGED BEND	50	400*400
	2a	90° DOUBLE FLANGED BEND	50	400*400
	3	DOUBLE FLANGED PIPE	50	L=2610
	4/4a	FLANGED ADAPTOR	50/50	
	5	90° DOUBLE FLANGED BEND	50	400*700
	6/6a	45° DOUBLE FLANGED BEND	50/ 50	400*400
	7/7a	DOUBLE FLANGED PIPE	50/ 50	L=1310
	8/8a	ALL FLANGED GATE VALVE	50/ 50	L=360
	9/9a	SINGLE FLANGED PIPE	50/ 50	L=1250
	10	DOUBLE FLANGED CONCENTRIC TAPER	50*50	L=300
	11	SINGLE FLANGED PIPE	50	L=500
	12	V.J. STEPPED COUPLING	50/50	
	13	SINGLE FLANGED BELL MOUTH	50	L=300
	14	DOUBLE FLANGED PIPE	50	L=1920
	16	90° DOUBLE FLANGED BEND	50	300*300
	17	DOUBLE FLANGED PIPE WITH PUDDLE FLANGED	50	L=200
	18	DOUBLE FLANGED PIPE	50	L=1980
	19	SINGLE FLANGED PIPE	50	L=1300
	20	SINGLE FLANGED PIPE WITH PUDDLE FLANGED	50	L=3000
	21	ALL FLANGED GATE VALVE	50	L=360
	22	90° DOUBLE FLANGED BEND	50	300*300
	23	G.S. VENT	100	
	24	HDPE PIPE	50	
	25	UPVC PIPE	50	



SECTION THRO' WALL





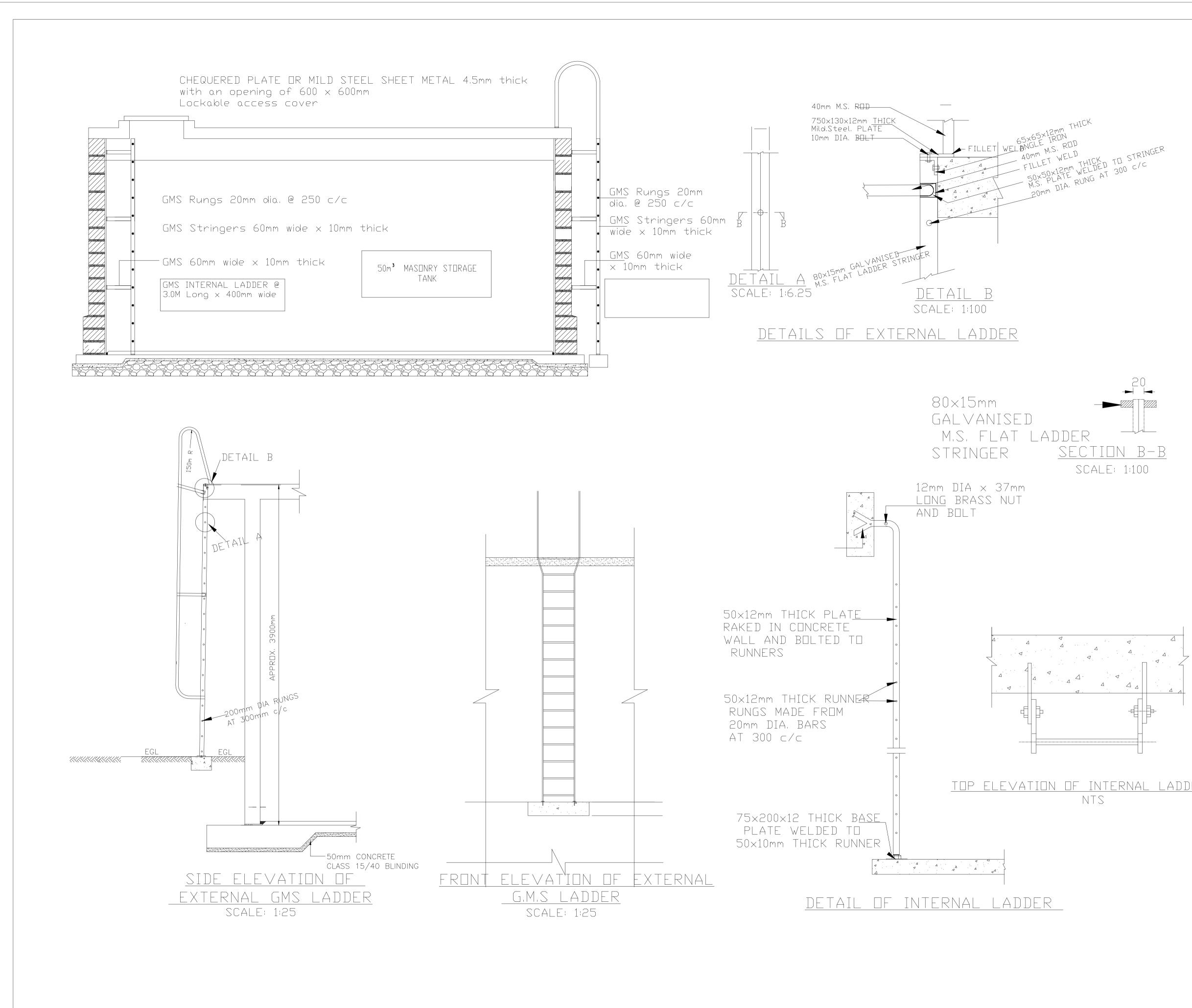
SCALE 1:10

BPT PIPEWORK SCHEDULE

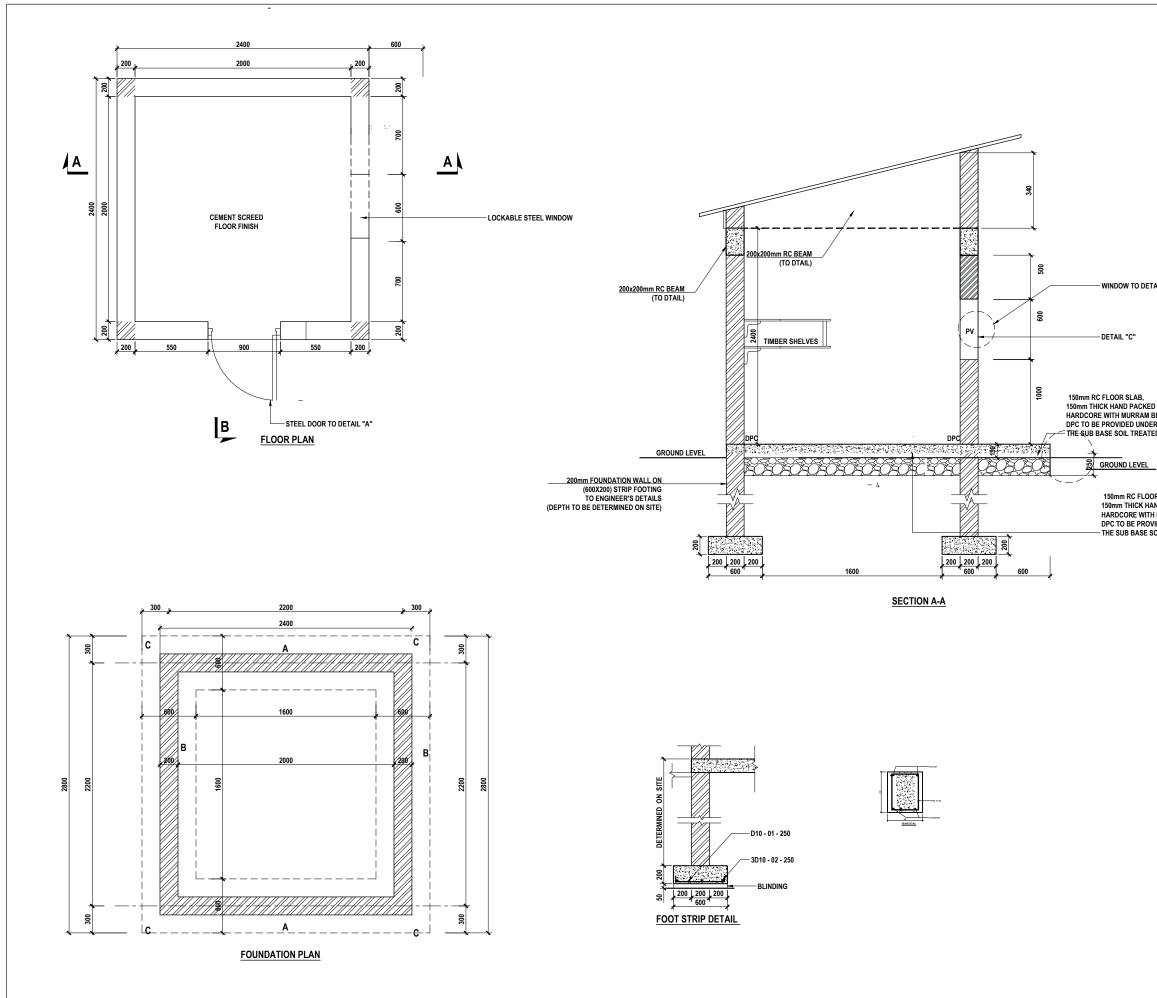
30mm thick cement/sand (1:2) plaster

Water proofing to all internal surfaces shall be approved by Engineer and shall be applied by Specialist contractor

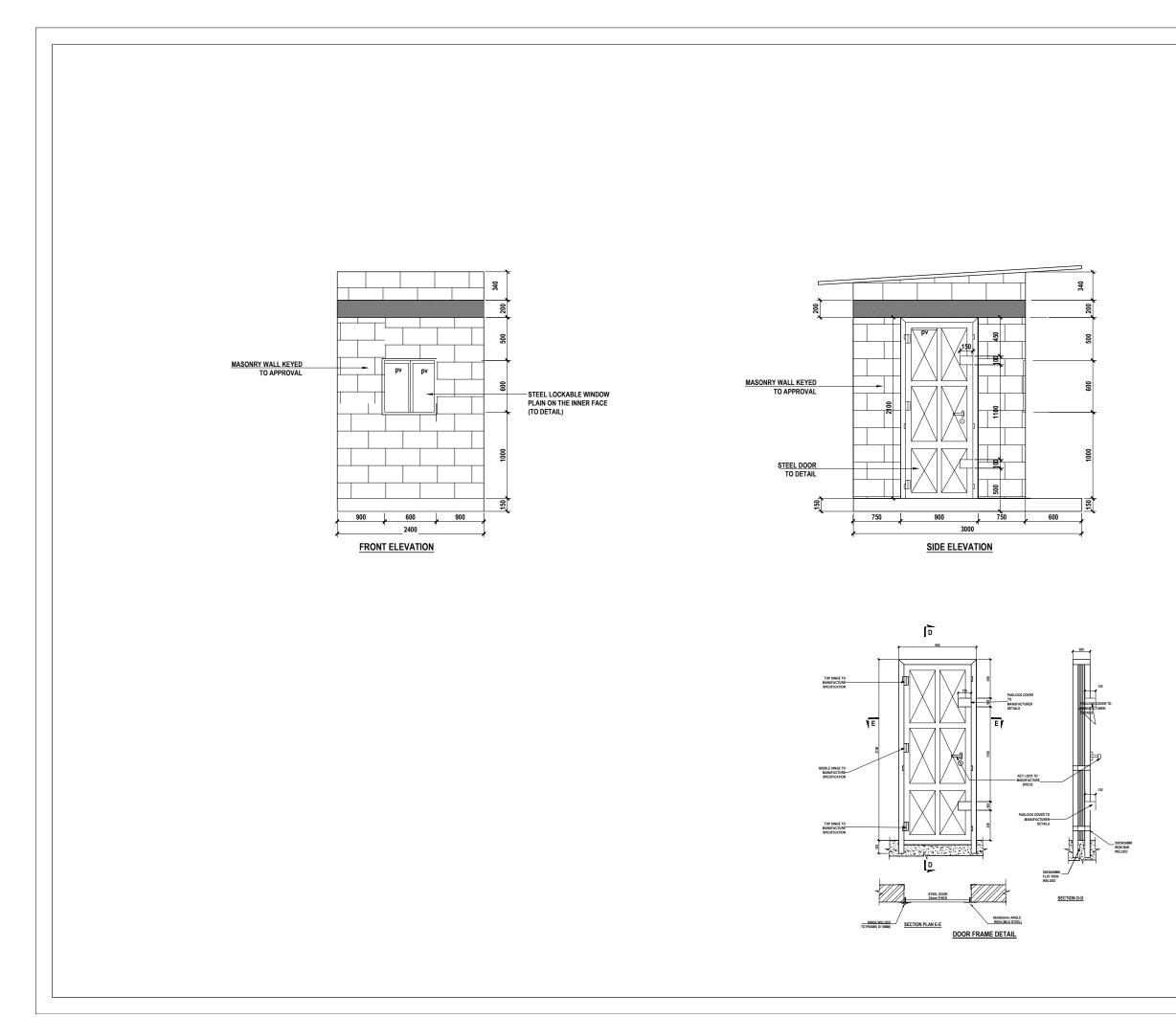
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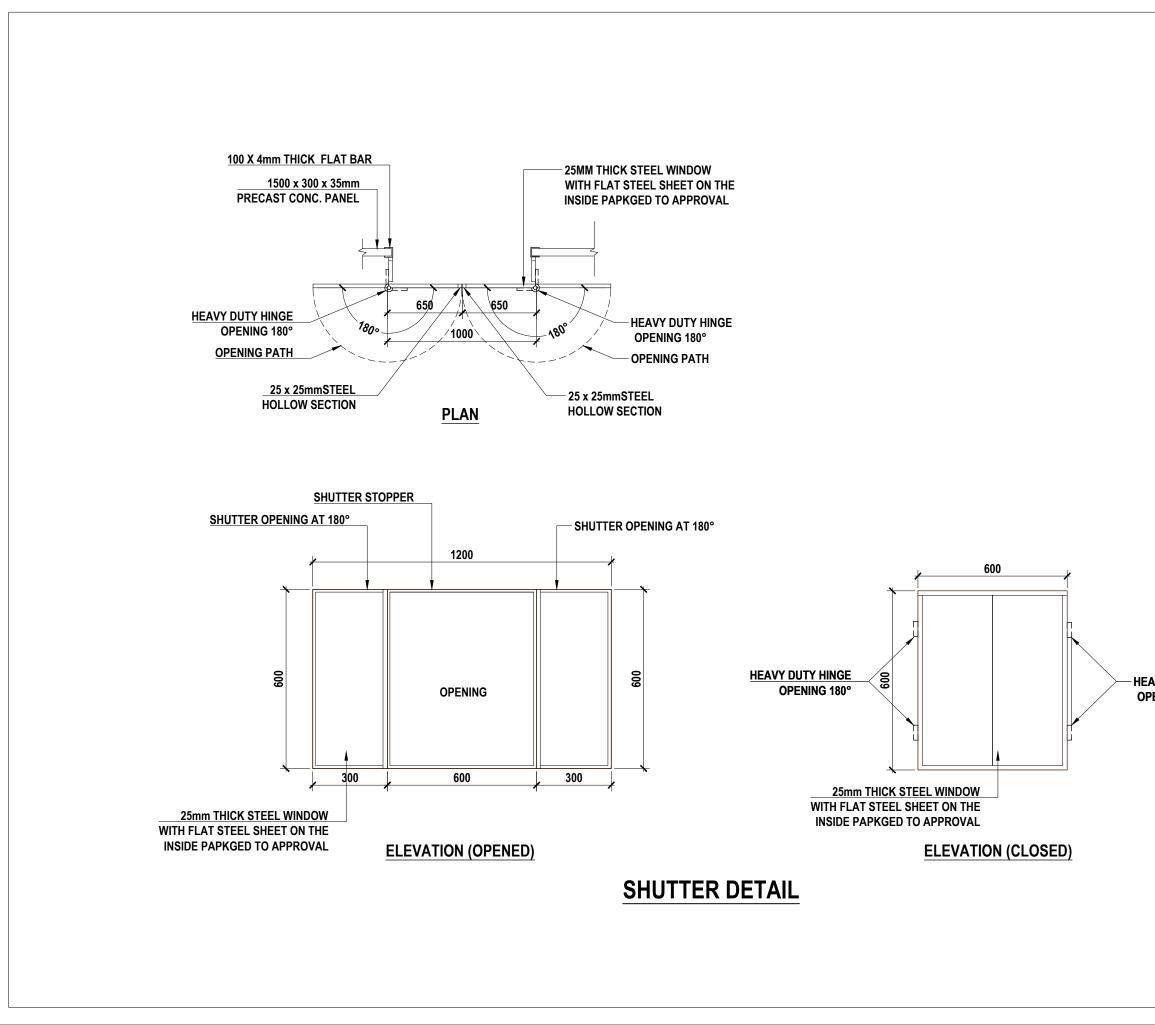
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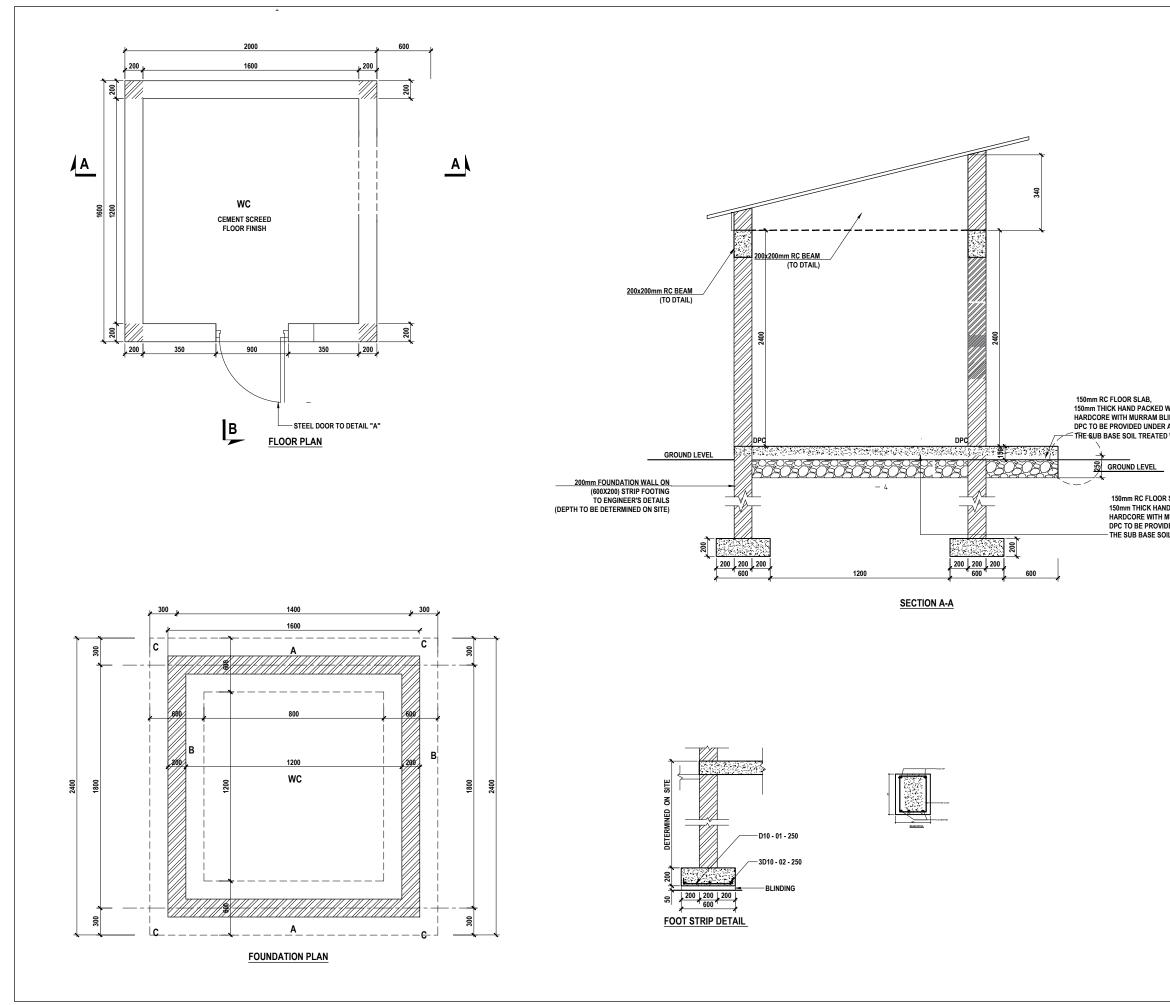


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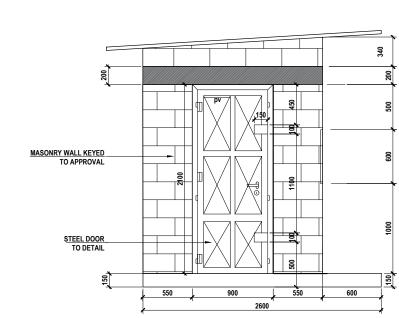


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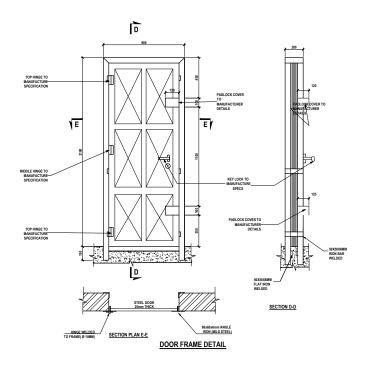
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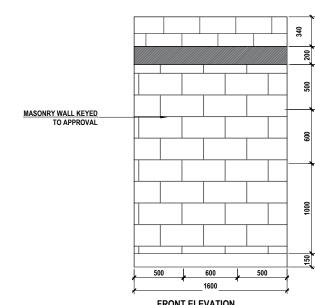


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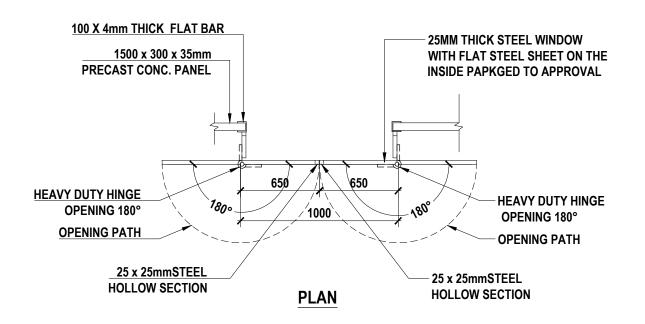


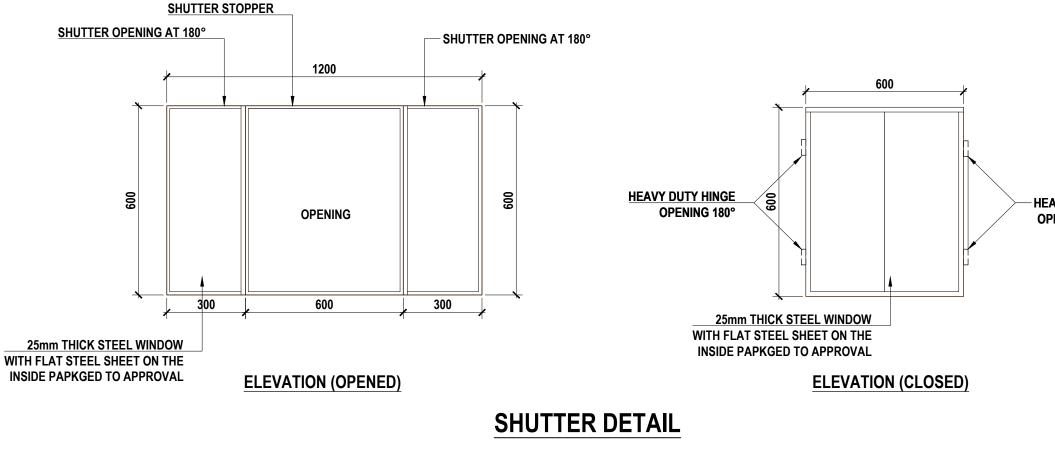






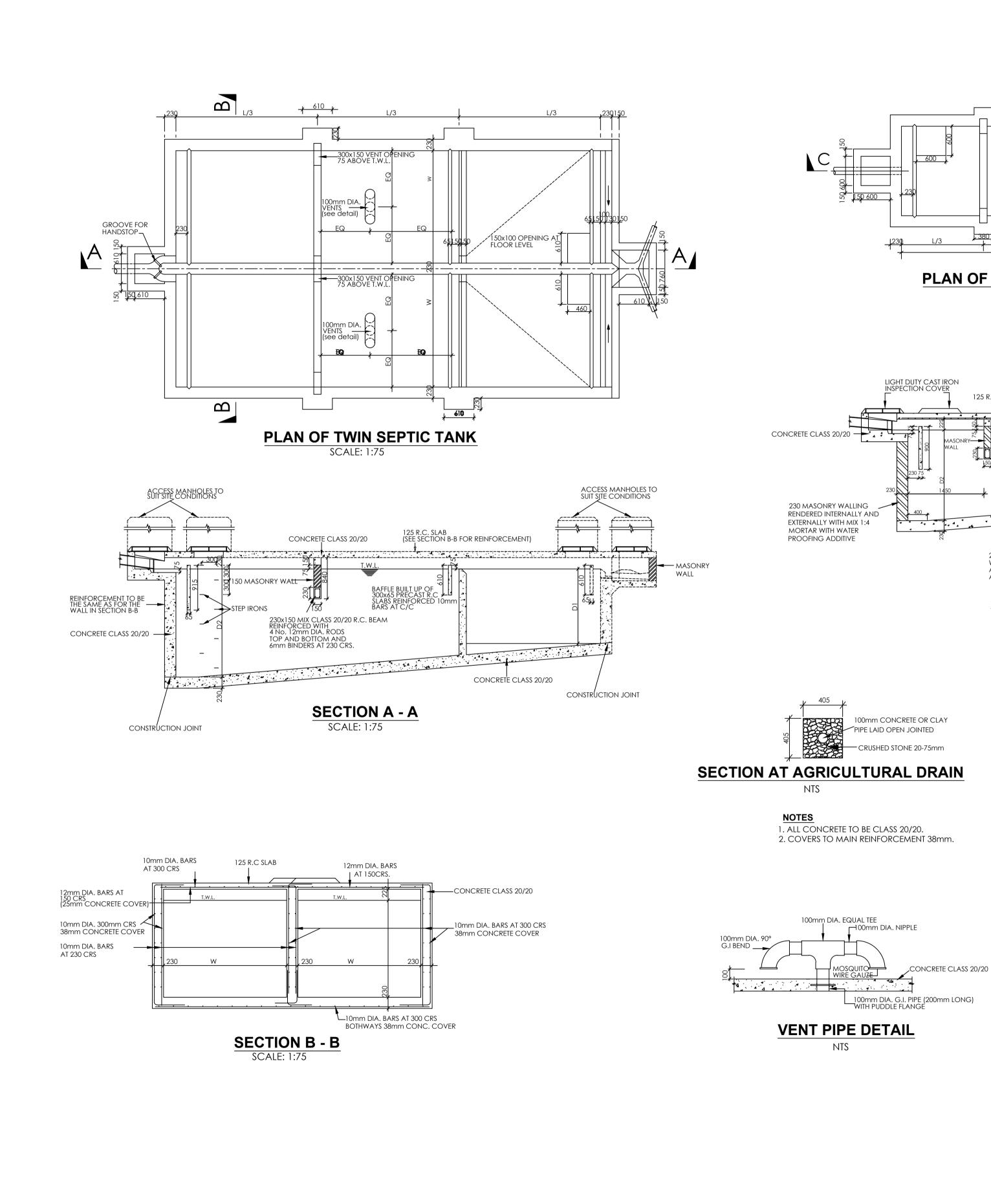
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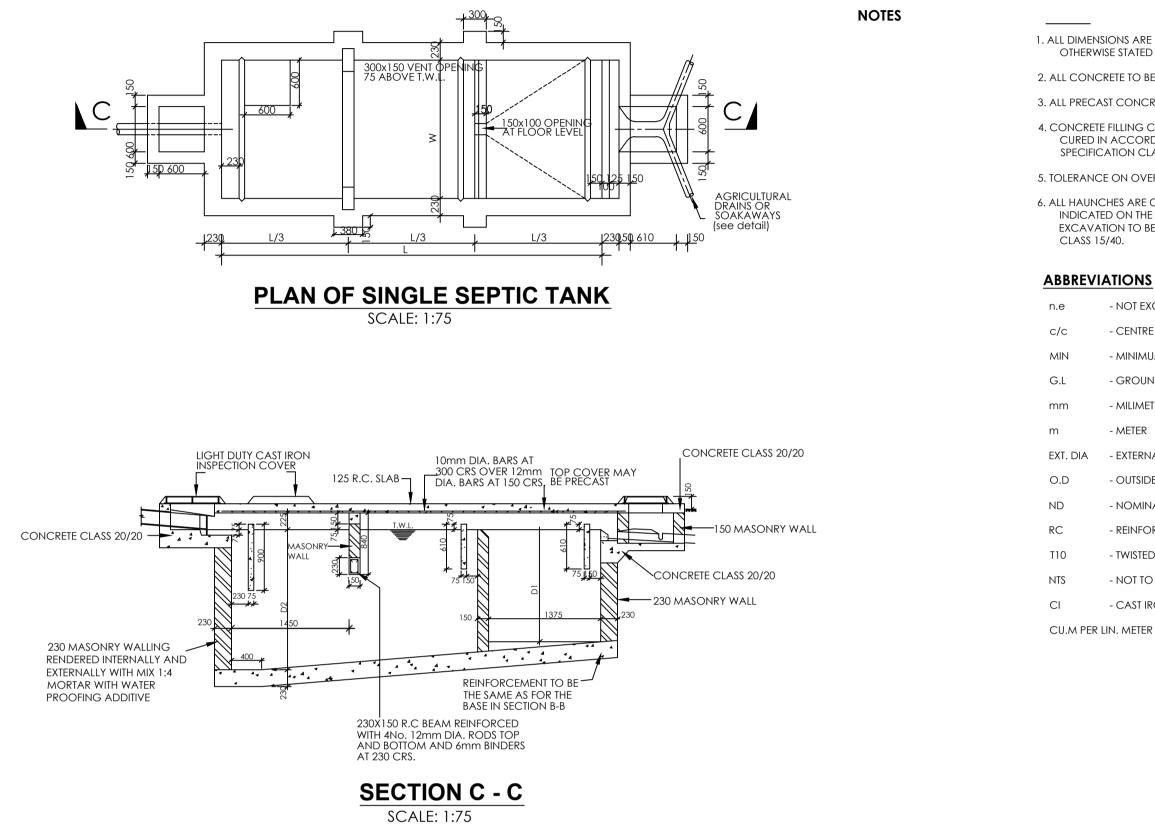




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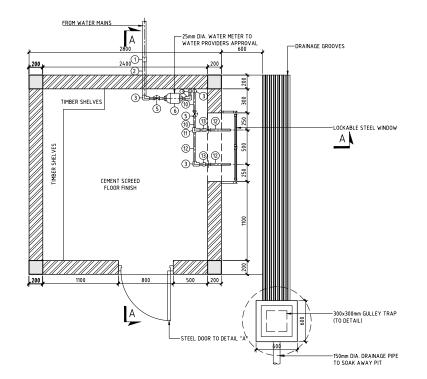


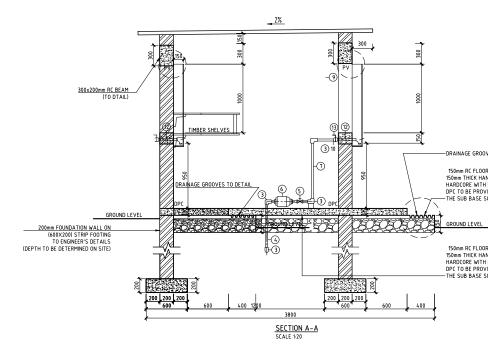


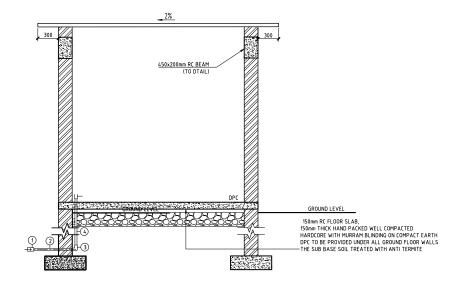
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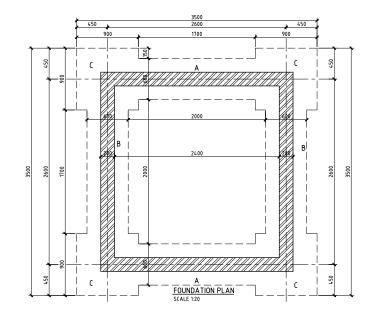
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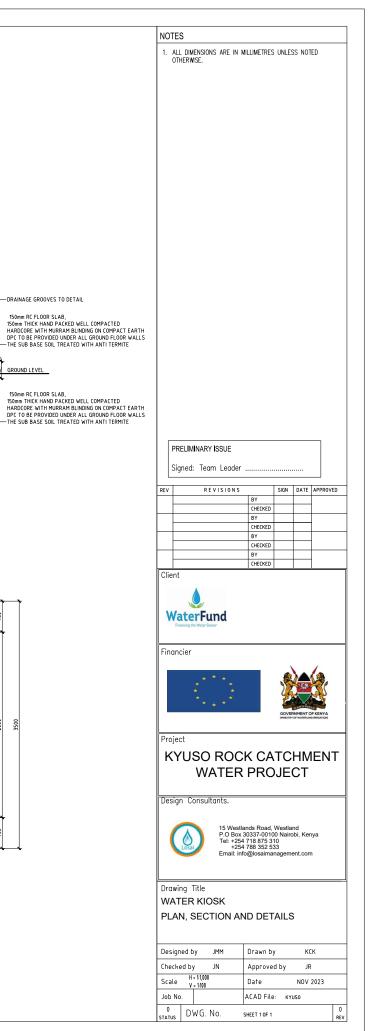
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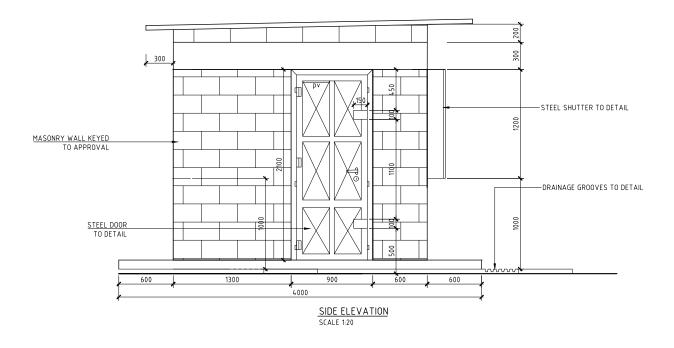


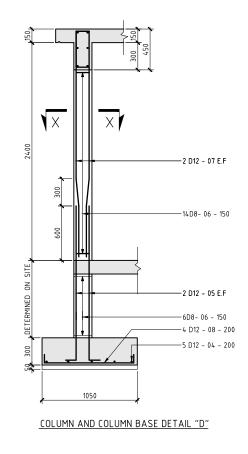


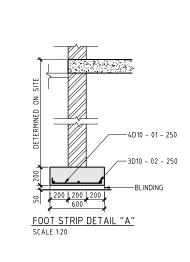


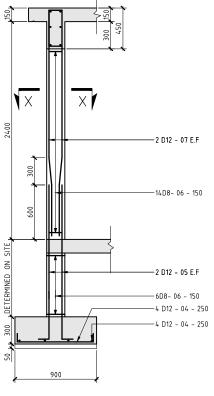






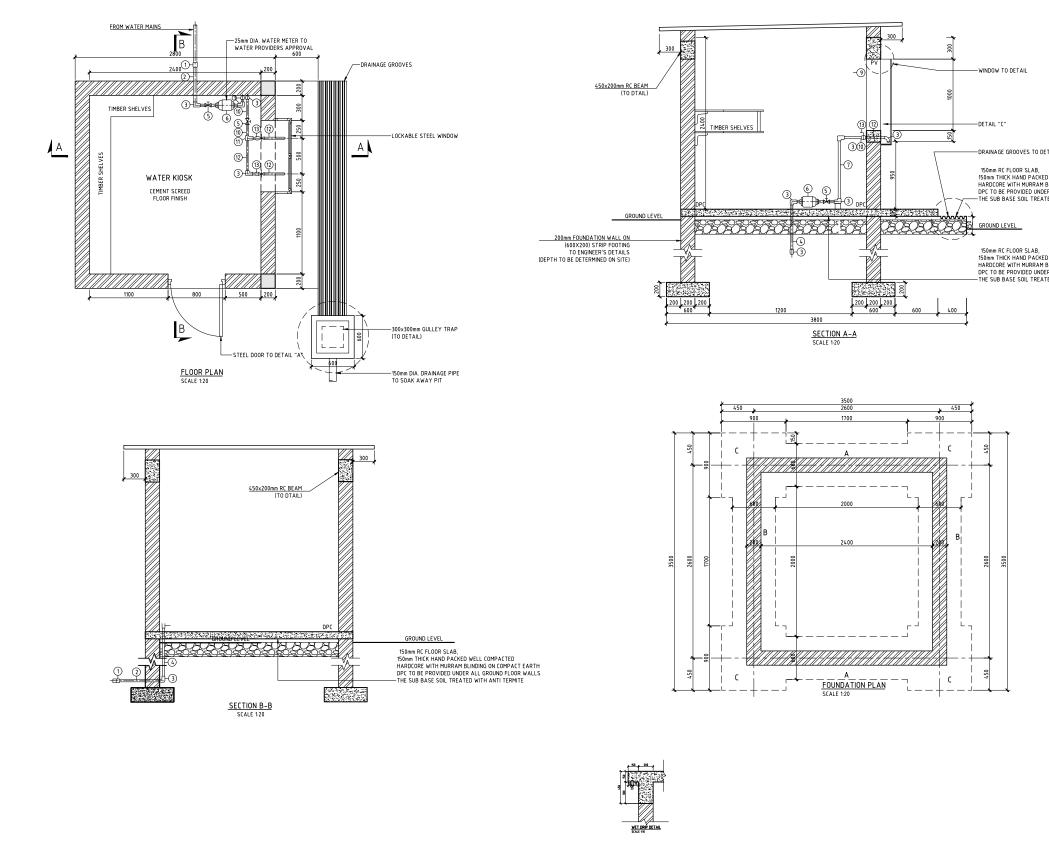




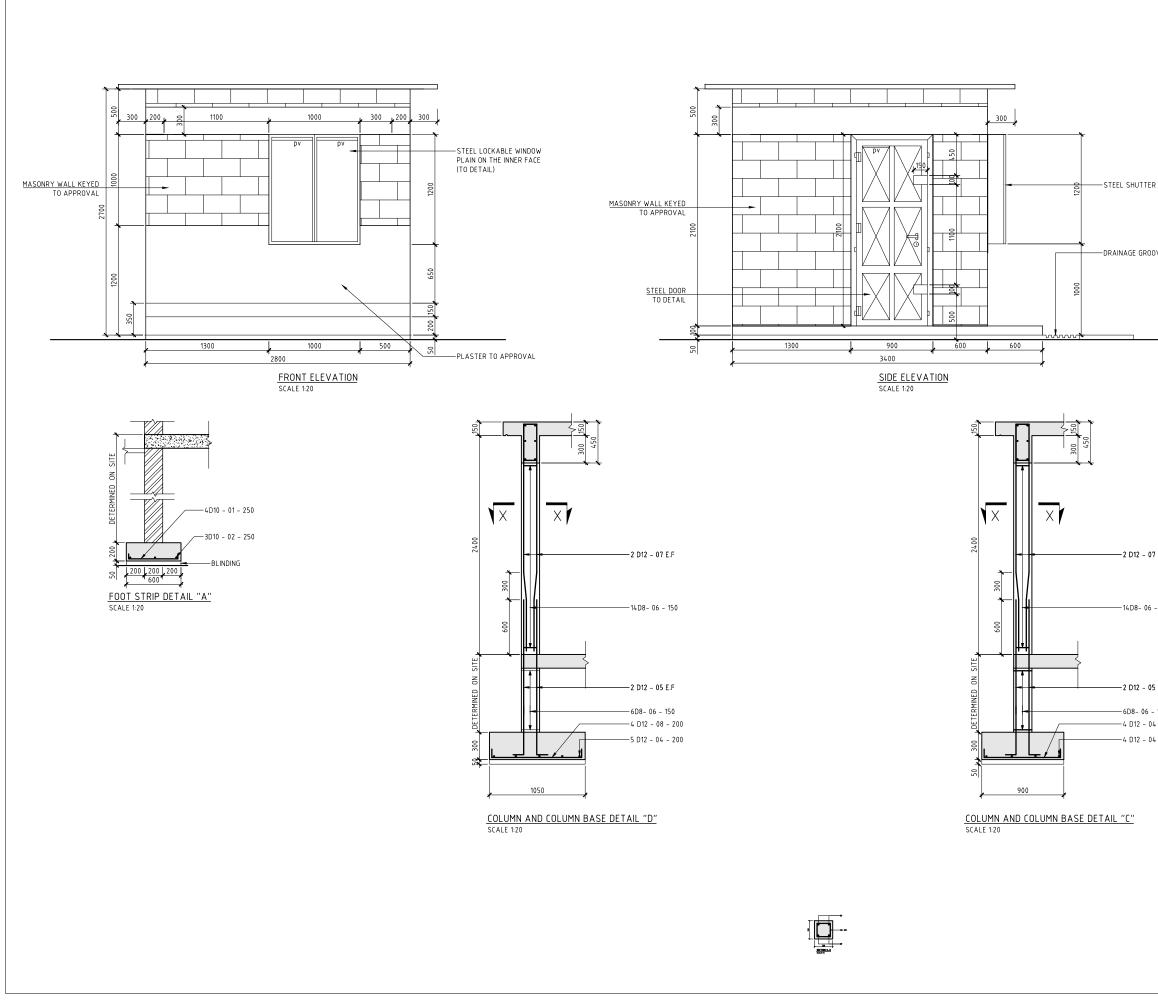


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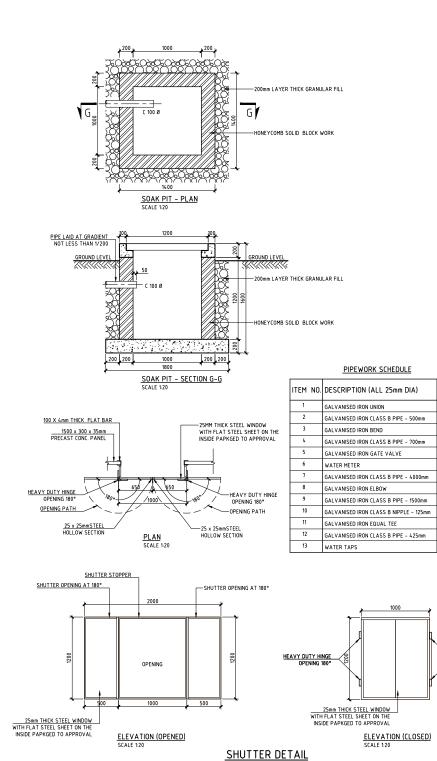
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	Design Consultants.
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	15 Westlands Road, Westland P.O Box 30337-00100 Nairobi, Kenya Tel: +254 718 875 310
	Tel: +254 718 875 310 +254 788 352 533 Email: info@losaimanagement.com
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	Email: info@losaimanagement.com
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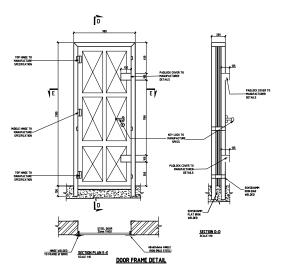
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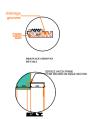
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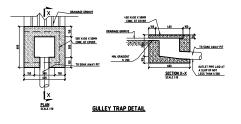
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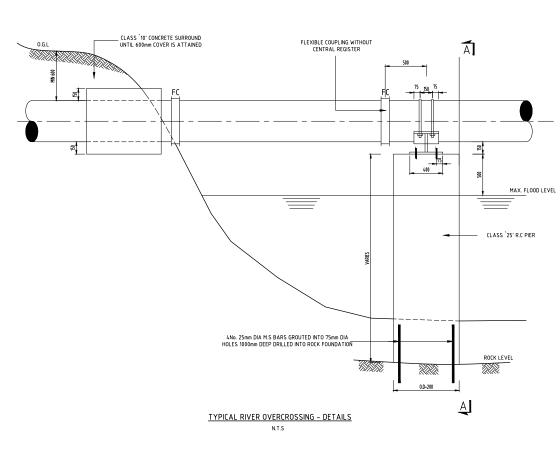
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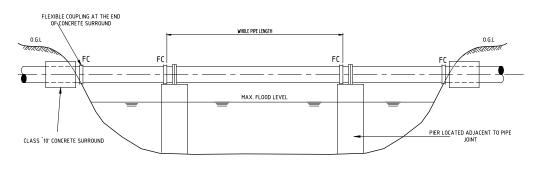




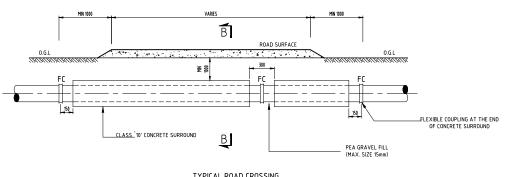


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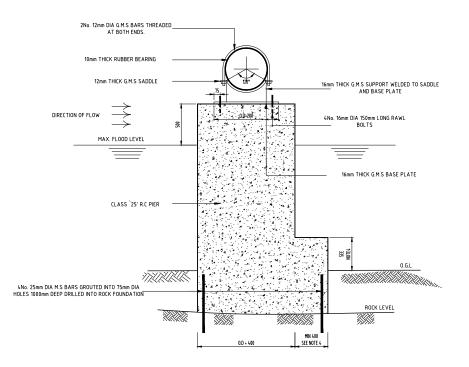


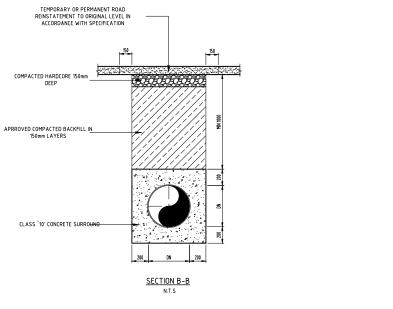


TYPICAL RIVER OVERCROSSING N.T.S



TYPICAL ROAD CROSSING N.T.S

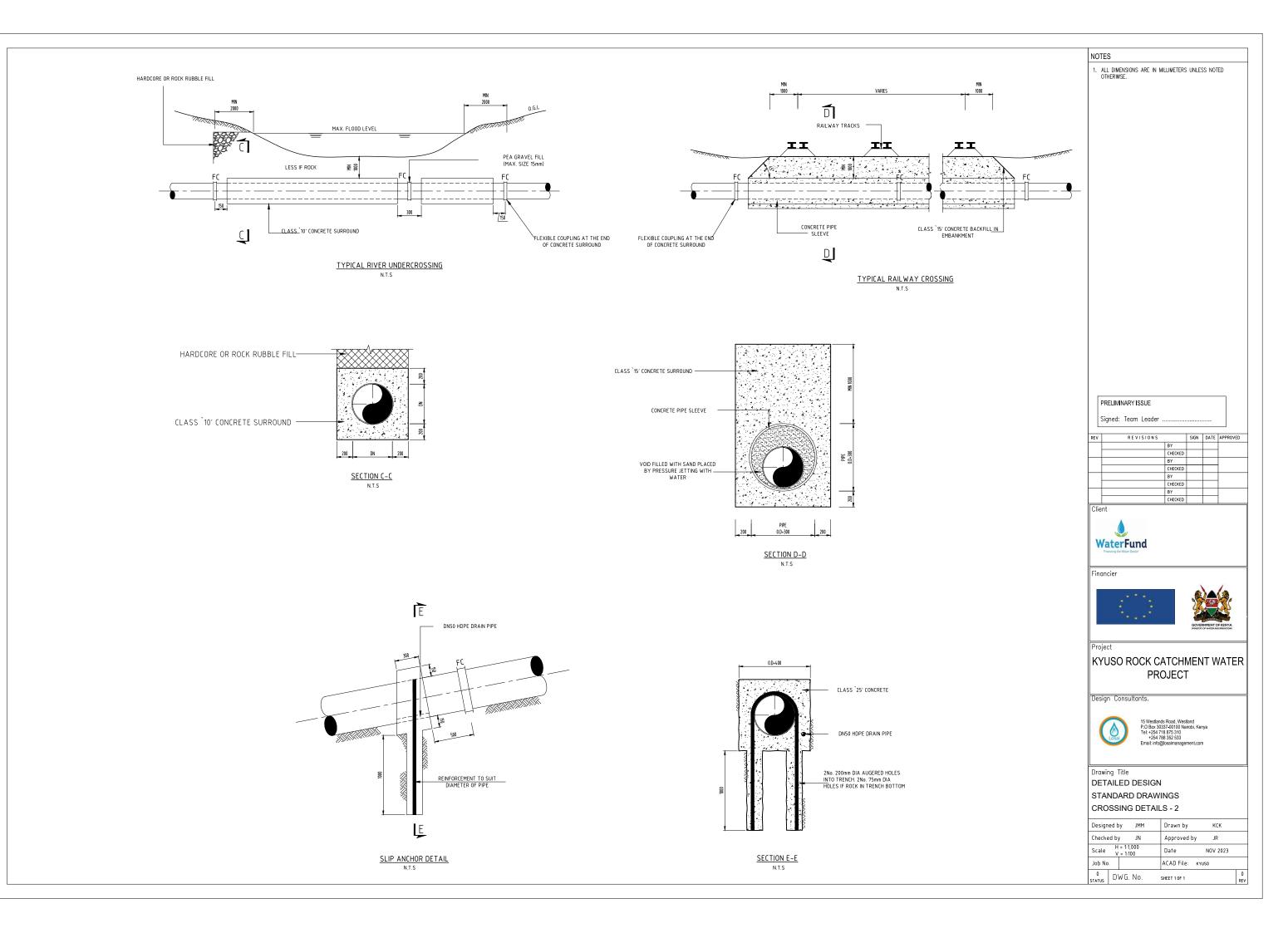


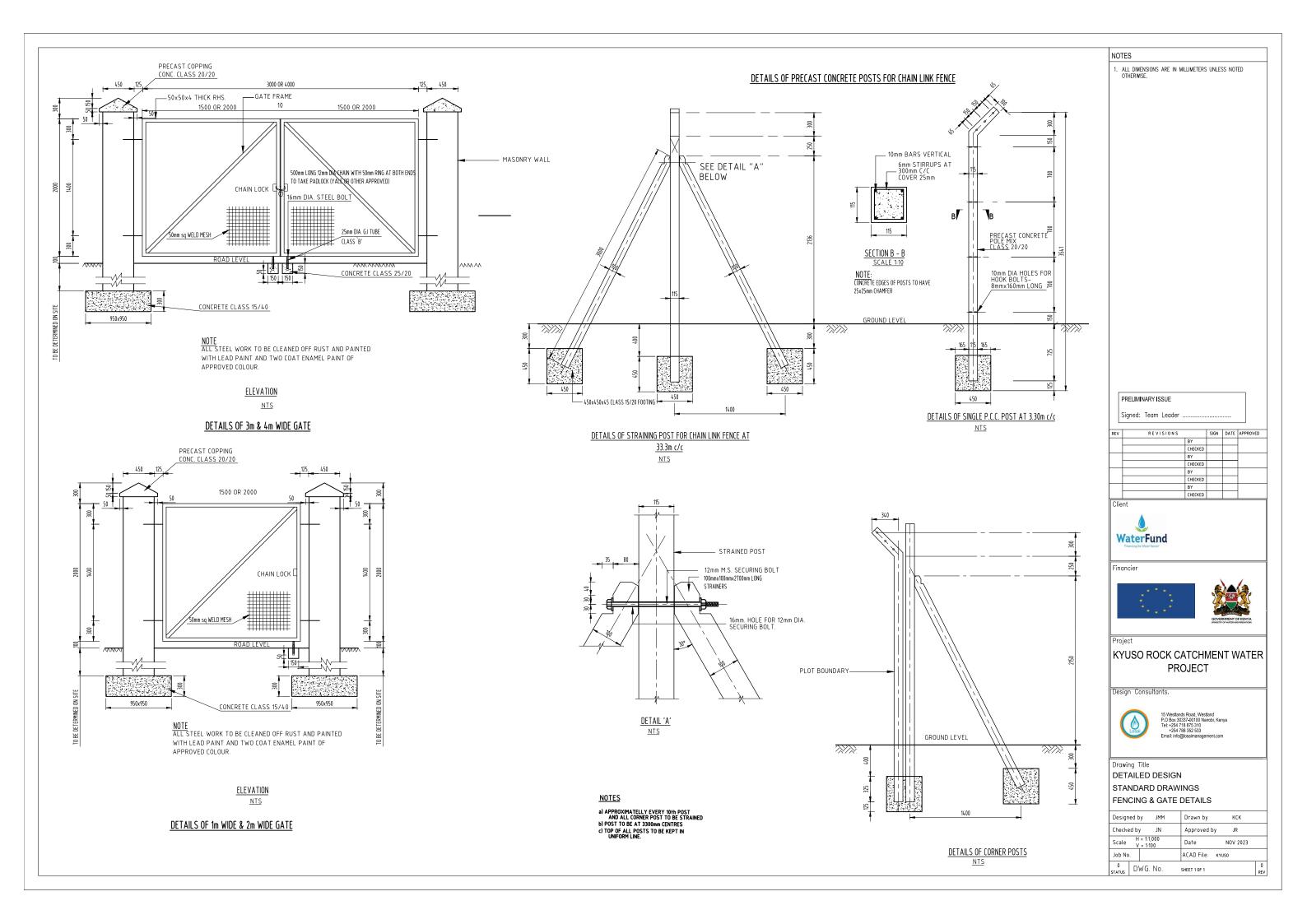


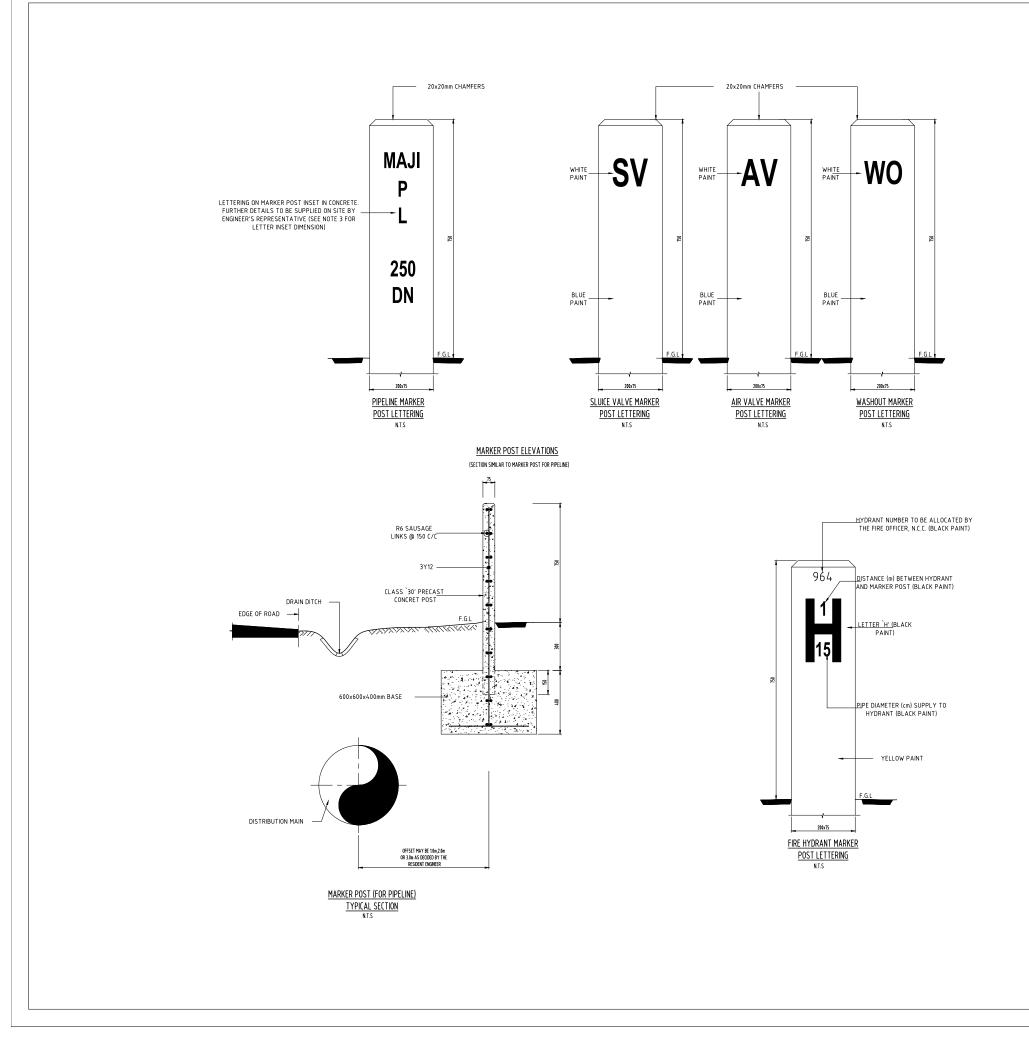


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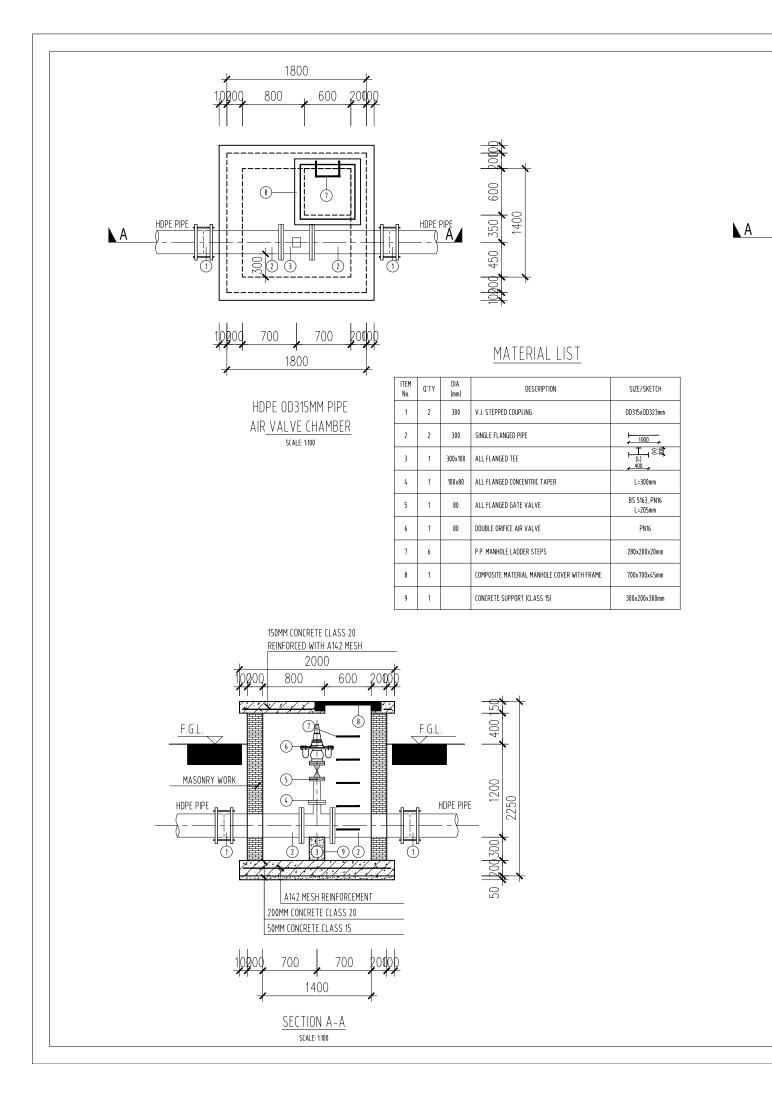
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Design Consultants.	
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15 Westla	ands Road, Westland
P.O Box 3 Tel: +254	ands Road, Westland 30337-00100 Nairobi, Kenya 718 875 310 788 352 533
Email: inf	o@losaimanagement.com
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Designed by JMM	Drawn by KCK
Checked by JN	Approved by JR
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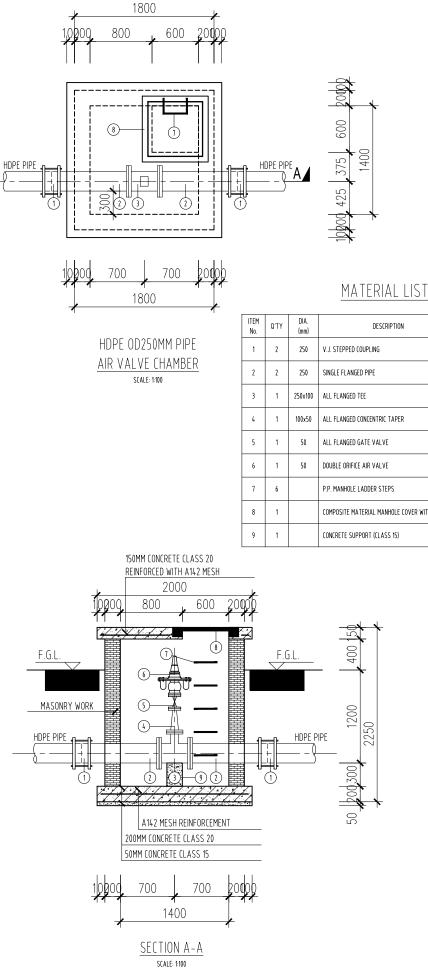






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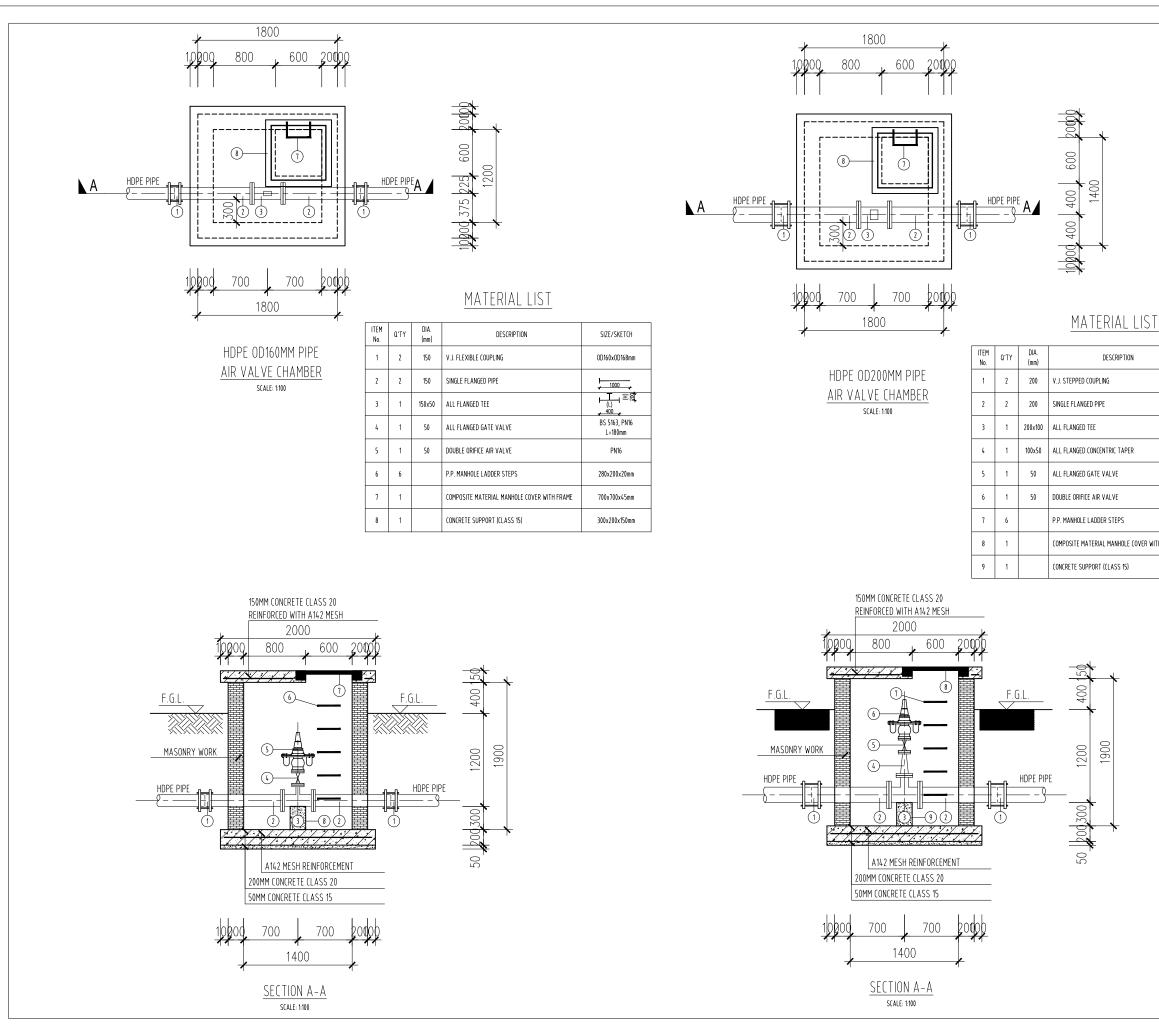




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	L=300mm
	BS 5163, PN16 L=180mm
	PN16
	280x200x20mm
WITH FRAME	700x700x45mm
	300x200x250mm

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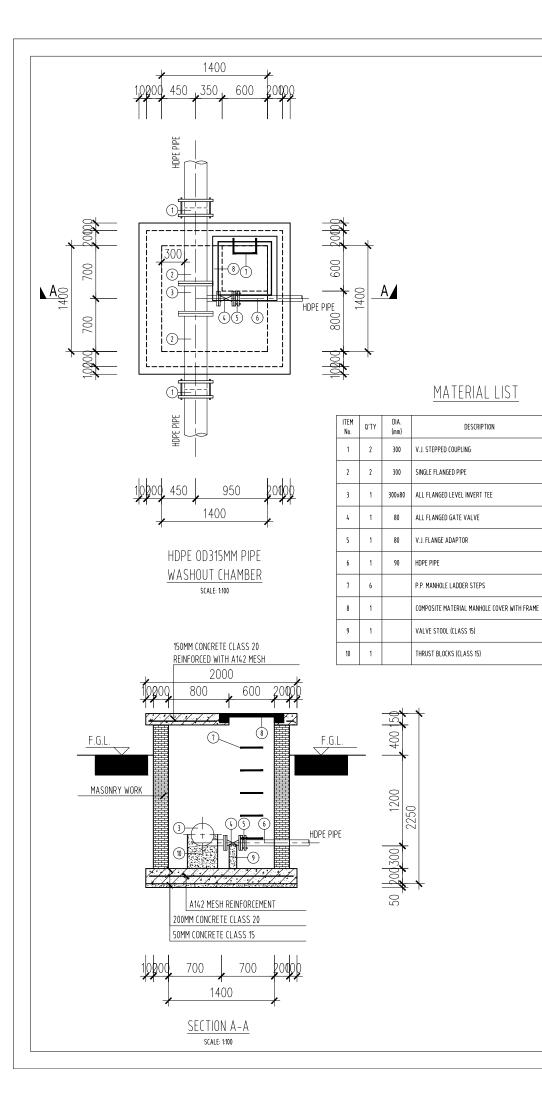
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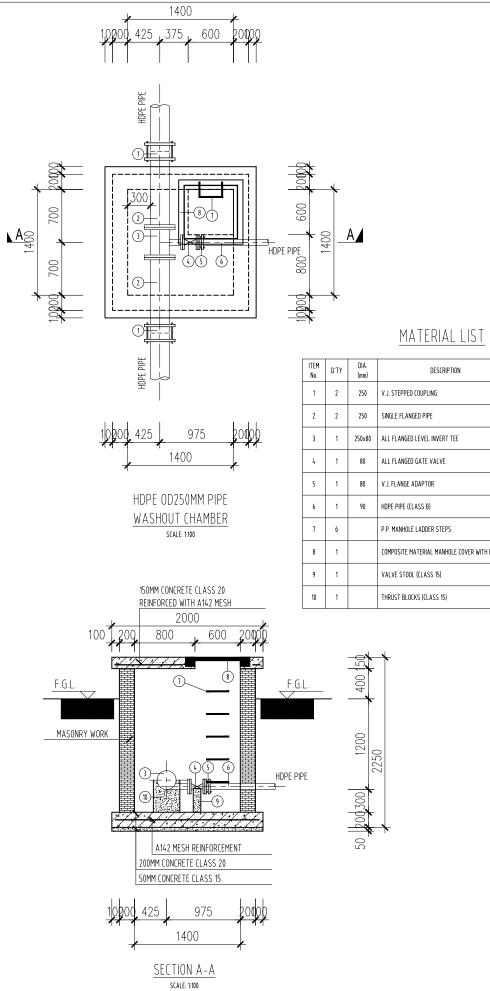
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CLASS B

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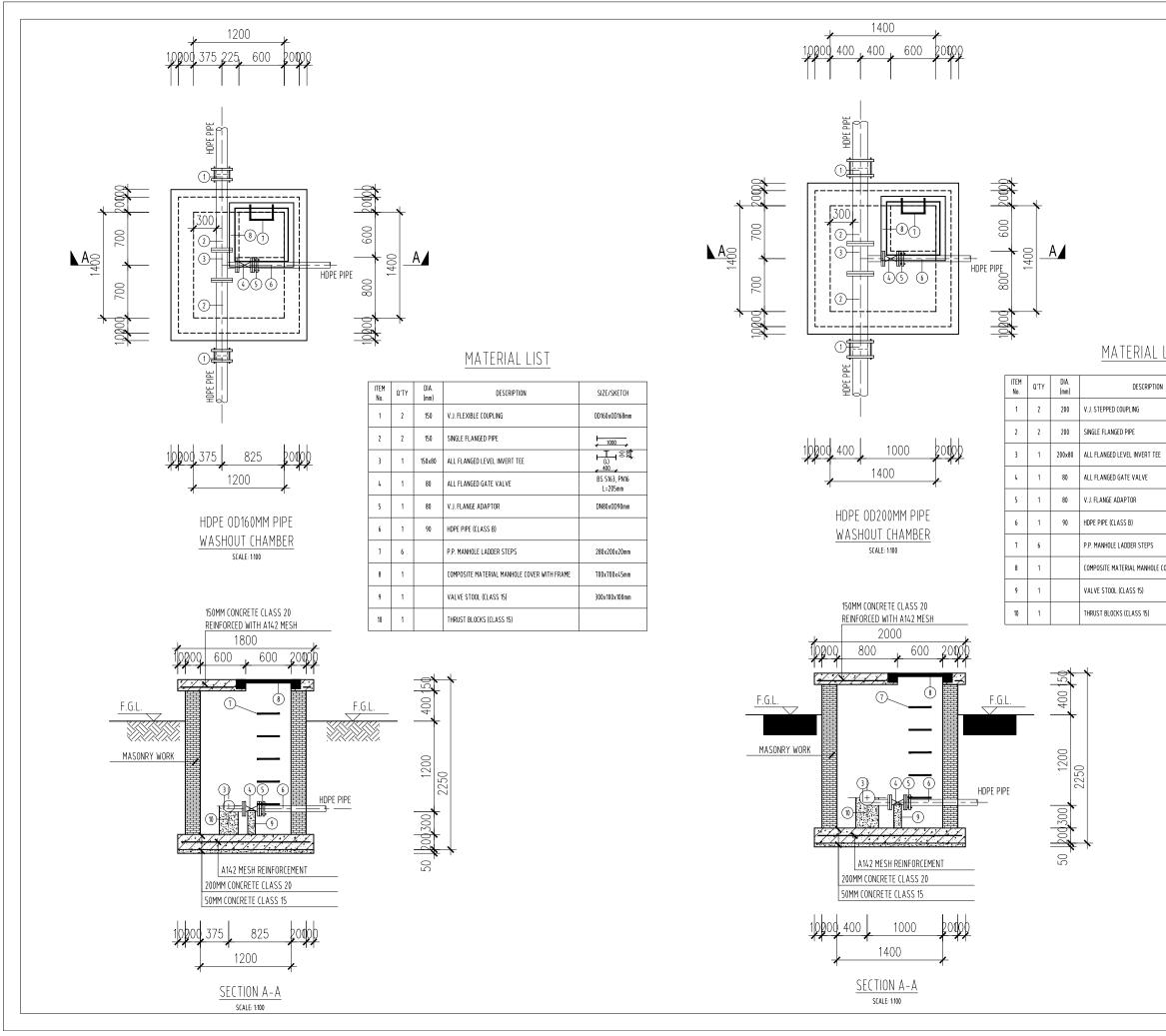
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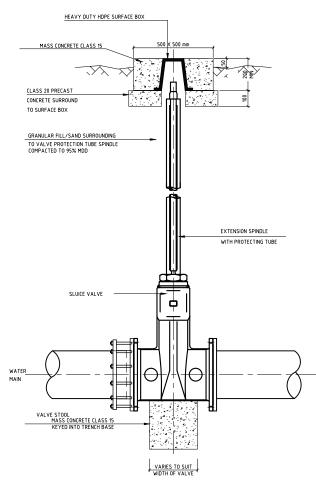
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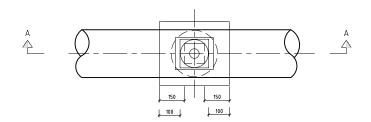
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I. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

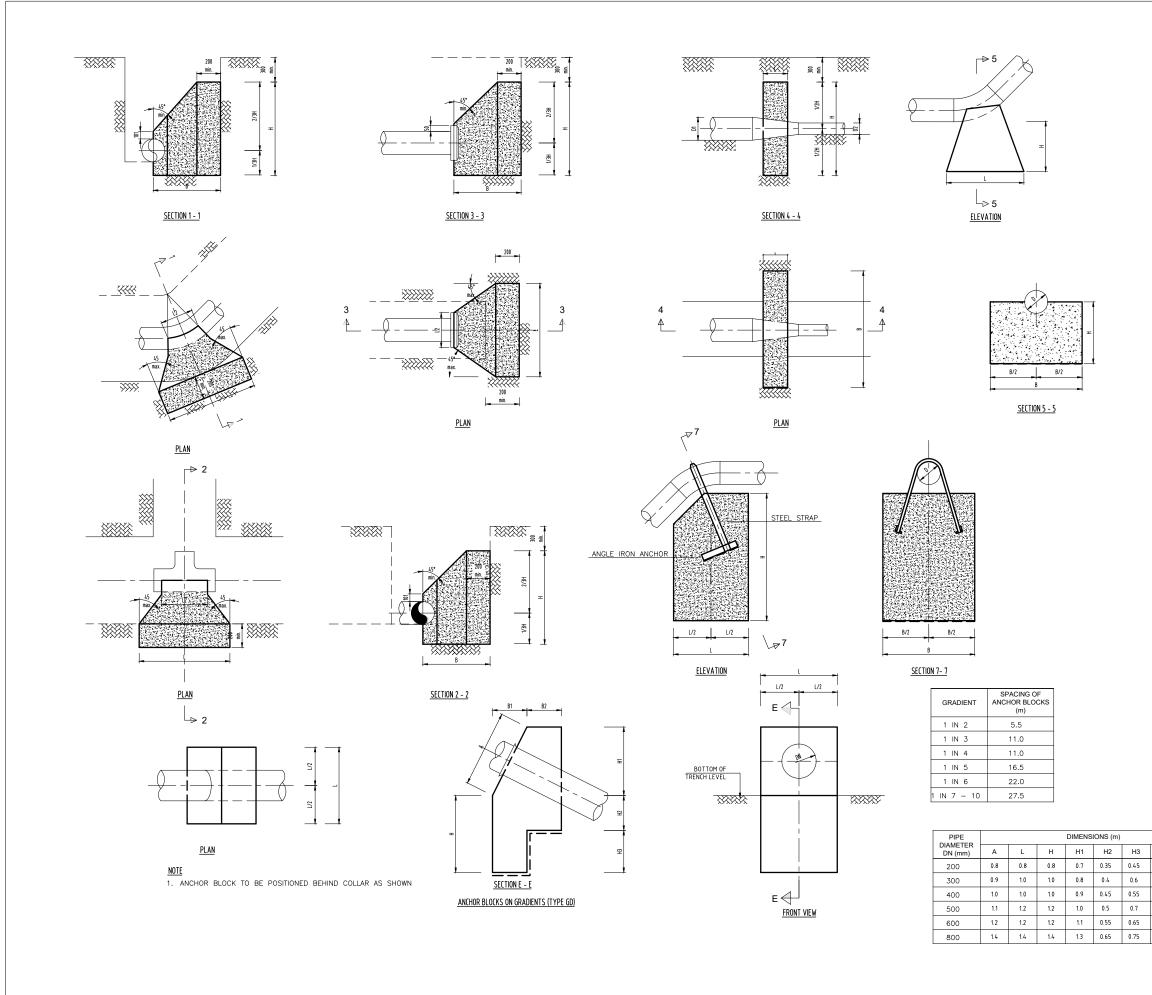






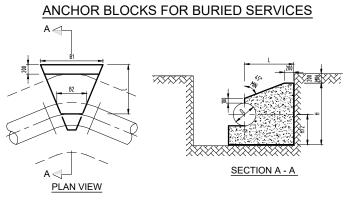
PLAN VIEW DETAILS OF VALVE SURFACE BOX

NOTES I. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. PRELIMINARY ISSUE Signed: Team Leader ... SIGN DATE APPROVED REVISIONS REV BY CHECKED BY BY CHECKED BY CHECKED BY CHECKED Client WaterFund Financier Project KYUSO ROCK CATCHMENT WATER PROJECT Design Consultants. 15 Westlands Road, Westland P.O Box 30337-00100 Nairobi, Kenya Tel: +254 718 875 310 +254 788 352 533 Email: info@losaimanagement.com Losai Drawing Title DETAILED DESIGN STANDARD DRAWINGS VALVE SURFACE BOX DETAILS Designed by JMM кск Drawn by Checked by JN JR Approved by Scale V = 1:100 Date NOV 2023 ACAD File: KYUSO Job No. 0 DWG. No. 0 REV SHEET 1 OF 1

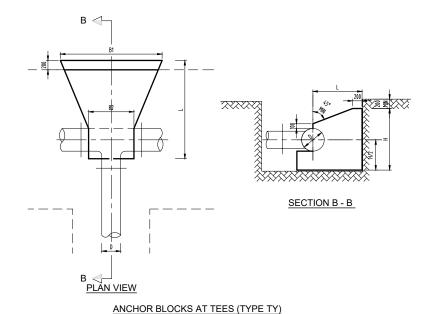


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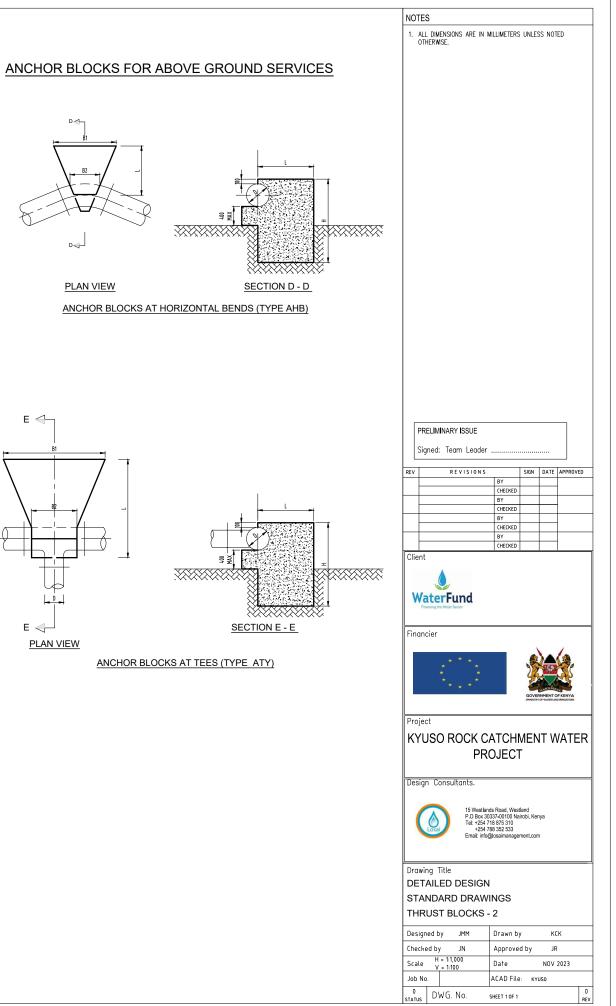
B1	B2
0.35	0.35
0.4	0.4
0.45	0.45
0.5	0.5
0.55	0.55
0.65	0.65

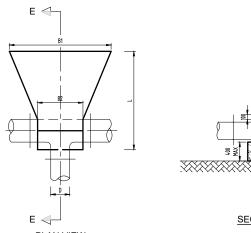


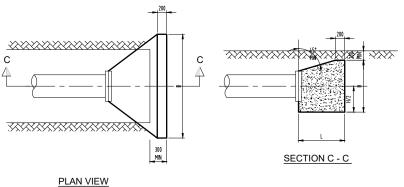
ANCHOR BLOCKS AT HORIZONTAL BENDS (TYPE HB)



DIMENSIONS OF ANCHOR BLOCKS FOR BURIED SERVICES BENDS (TYPE HB) - 90° 16 24 1.6 3.5 0.6 1.8 350 25 37.5 2.0 4.0 0.6 1.8 BENDS (TYPE HB) - 60° 24 1.5 2.8 0.45 1.6 16 350 25 37.5 1.8 3.4 0.45 1.8 BENDS (TYPE HB) - 45° 1.3 2.6 0.45 1.4 16 24 350 25 37.5 1.7 3.0 0.45 1.7 BENDS (TYPE HB) - 22.5° 1.2 0.2 1.2 1.5 16 24 350 0.2 1.4 25 37.5 1.4 2.0 BENDS TYPE HB - 11.25° 0.9 1.0 0.2 1.2 16 24 350 25 37.5 1.2 1.2 0.2 1.2 TEE (TYPE TY) 1.5 2.8 0.45 1.6 16 24 350 0.45 1.8 25 37.5 1.8 3.4 END CAPS (TYPE EC) 16 24 1.5 2.8 1.6 350 37.5 1.8 25 1.8 3.4







PIPE OPERATING TEST B2 н B1 L DIAMETRE PRESSURE PRESSURE (BAR) (BAR) (m) (m) (m) (m) (mm) BENDS (TYPE AHB) - 90° 3.5 3.0 3.0 0.6 16 24 350 0.6 4.0 25 37.5 3.5 3.5 BENDS (TYPE AHB) - 60° 0.45 3.0 16 24 3.0 2.5 350 25 37.5 3.0 3.5 0.45 3.5 BENDS (TYPE AHB) - 45° 2.5 2.5 0.45 3.0 16 24 350 0.45 3.0 25 37.5 3.0 3.0 BENDS (TYPE AHB) - 22.5° 16 24 2.0 2.0 0.2 2.5 350 0.2 2.5 25 37.5 2.5 2.5 TEES (TYPE ATY) 24 3.0 2.5 0.45 3.0 16 350 25 37.5 3.0 3.5 0.45 3.5

DIMENSIONS OF ANCHOR BLOCKS FOR ABOVE GROUND SERVICES

ANCHOR BLOCKS AT END CAPS (TYPE EC)

11.25 deg

B Strap Vol H L B Strap Vol

(m) (m) (m) (m) (mm) (m³) (m) (m) (m) (m) (mm) (m³)

VERTICAL BENDS (TYPE CV) - CREST (dimensions in metres)

HL

22.5 deg

0.60 0.80 0.70 30x4 0.28 0.50 0.50 0.50 30x4 0.12 0.40 0.40 0.40 30x4 0.07

0.80 0.90 0.70 30x4 0.44 0.60 0.70 0.50 30x4 0.20 0.50 0.50 0.40 30x4 0.10

0.90 1.20 0.80 30x4 0.72 0.80 0.90 0.50 30x4 0.34 0.60 0.70 0.40 30x4 0.17

0.80 1.20 0.70 30x4 0.55 0.60 0.60 0.70 30x4 0.24 0.40 0.50 0.70 30x4 0.14 0.80 1.20 0.70 30x4 0.55 0.80 0.80 0.70 30x4 0.43 0.60 0.60 0.70 30x4 0.25

0.90 1.40 0.80 30x4 0.82 0.80 1.20 0.70 30x4 0.62 0.70 0.70 0.70 30x4 0.34 **90** 0.80 1.20 1.00 30x4 0.78 0.70 0.90 0.80 30x4 0.48 0.60 0.70 0.70 30x4 0.29

0.80 1.70 1.10 30x4 1.10 0.80 1.30 0.90 30x4 0.86 0.80 1.00 0.80 30x4 0.63

1.10 1.60 1.20 40x4 1.73 0.80 1.30 1.10 30x4 1.05 0.60 1.20 0.90 30x4 0.62 150 1.30 1.80 1.40 40x6 2.71 0.80 1.60 1.30 30x4 1.50 0.90 1.20 1.00 30x4 1.05 **240** 1.30 2.20 1.80 60x6 4.06 1.00 1.70 1.60 40x6 2.49 0.90 1.50 1.20 40x4 1.56
 90
 1.20
 1.80
 1.40
 60x6
 2.46
 1.00
 1.50
 1.20
 60x4
 1.67
 0.80
 1.20
 1.00
 60x4
 0.93

 150
 1.40
 2.20
 1.60
 60x6
 3.96
 1.00
 1.70
 1.40
 60x4
 2.18
 1.00
 1.50
 1.24
 1.74

150 0.80 1.50 1.10 30x4 1.02 0.80 1.10 0.80 30x4 0.66 0.70 1.00 0.70 30x4 0.48

 90
 0.80
 1.60
 1.40
 40x4
 1.35
 0.70
 1.50
 0.90
 30x4
 0.85
 0.60
 1.00
 0.80
 30x4
 0.47

 150
 0.95
 1.80
 1.60
 40x4
 2.09
 0.90
 1.20
 30x4
 1.49
 0.70
 1.20
 1.00
 30x4
 0.81

240 1.00 2.00 2.00 40x6 3.00 1.00 1.60 1.60 30x4 2.35 0.80 1.40 1.20 30x4 1.29

240 1.60 2.50 2.20 100x6 7.09 1.20 2.00 1.80 80x4 3.95 1.00 1.70 1.20 60x4 1.96

45 deg

TEES AND ENDS - TYPE TY

(dimensions in metres)

L B Strap Vol

(m) (m) (mm) (m³)

Pipe

Diameter

(mm)

80

100

150

200

250

300

Test

Pressure

(m)

90

150

240

90

150 240

240

90

н

(m)

VERTICAL BENDS (TYPE DV) - DEPRESSIONS (dimensions in metres)

Pipe Diameter	Test Pressure		4	45 de	g			2	2.5 de	eg		11.25 deg					
		Н	L	В	L2	Vol	Н	L	В	L2	Vol	н	L	В	L2	Vol	
(mm)	(m)	(m)	(m)	(m)	(m)	(m ³)	(m)	(m)	(m)	(m)	(m ³)	(m)	(m)	(m)	(m)	(m ³)	
80	90	0.50	0.40	0.30	0.10	0.04	0.50	0.40	0.30	0.10	0.04	0.50	0.40	0.20	0.10	0.03	
	150	0.50	0.40	0.30	0.10	0.04	0.50	0.40	0.30	0.10	0.04	0.50	0.40	0.20	0.10	0.03	
	240	0.50	0.40	0.30	0.10	0.04	0.50	0.40	0.30	0.10	0.04	0.50	0.40	0.20	0.10	0.03	
100	90	0.50	0.40	0.30	0.15	0.05	0.50	0.40	0.30	0.10	0.04	0.50	0.40	0.20	0.10	0.03	
	150	0.50	0.40	0.30	0.15	0.05	0.50	0.40	0.30	0.10	0.04	0.50	0.40	0.20	0.10	0.03	
	240	0.50	0.40	0.30	0.15	0.05	0.50	0.40	0.30	0.10	0.04	0.50	0.40	0.20	0.10	0.03	
150	90	0.55	0.60	0.30	0.30	0.08	0.55	0.40	0.30	0.14	0.05	0.55	0.40	0.30	0.13	0.05	
	150	0.55	0.70	0.40	0.30	0.11	0.55	0.50	0.30	0.14	0.06	0.55	0.50	0.30	0.13	0.06	
	240	0.55	0.80	0.40	0.30	0.13	0.55	0.70	0.30	0.14	0.07	0.55	0.50	0.30	0.13	0.06	
200	90	0.60	0.80	0.40	0.35	0.14	0.60	0.70	0.30	0.14	0.08	0.60	0.50	0.30	0.13	0.06	
	150	0.60	0.90	0.40	0.35	0.15	0.60	0.70	0.30	0.14	0.08	0.60	0.50	0.30	0.13	0.06	
	240	0.60	1.10	0.60	0.35	0.27	0.60	0.80	0.40	0.14	0.12	0.60	0.60	0.40	0.13	0.09	
250	90	0.65	0.80	0.50	0.40	0.20	0.65	0.70	0.40	0.15	0.12	0.65	0.60	0.40	0.14	0.10	
	150	0.65	1.00	0.70	0.40	0.32	0.65	0.80	0.50	0.15	0.16	0.65	0.60	0.40	0.14	0.10	
	240	0.65	1.20	0.70	0.40	0.37	0.65	1.00	0.50	0.15	0.19	0.65	0.70	0.50	0.14	0.14	
300	90	0.70	1.00	0.50	0.40	0.25	0.70	0.80	0.40	0.16	0.14	0.70	0.60	0.40	0.15	0.11	
	150	0.70	1.20	0.70	0.40	0.40	0.70	1.00	0.50	0.16	0.21	0.70	0.70	0.40	0.15	0.12	
	240	0.70	1.50	1.00	0.40	0.67	0.70	1.20	0.70	0.16	0.34	0.70	0.80	0.40	0.15	0.14	

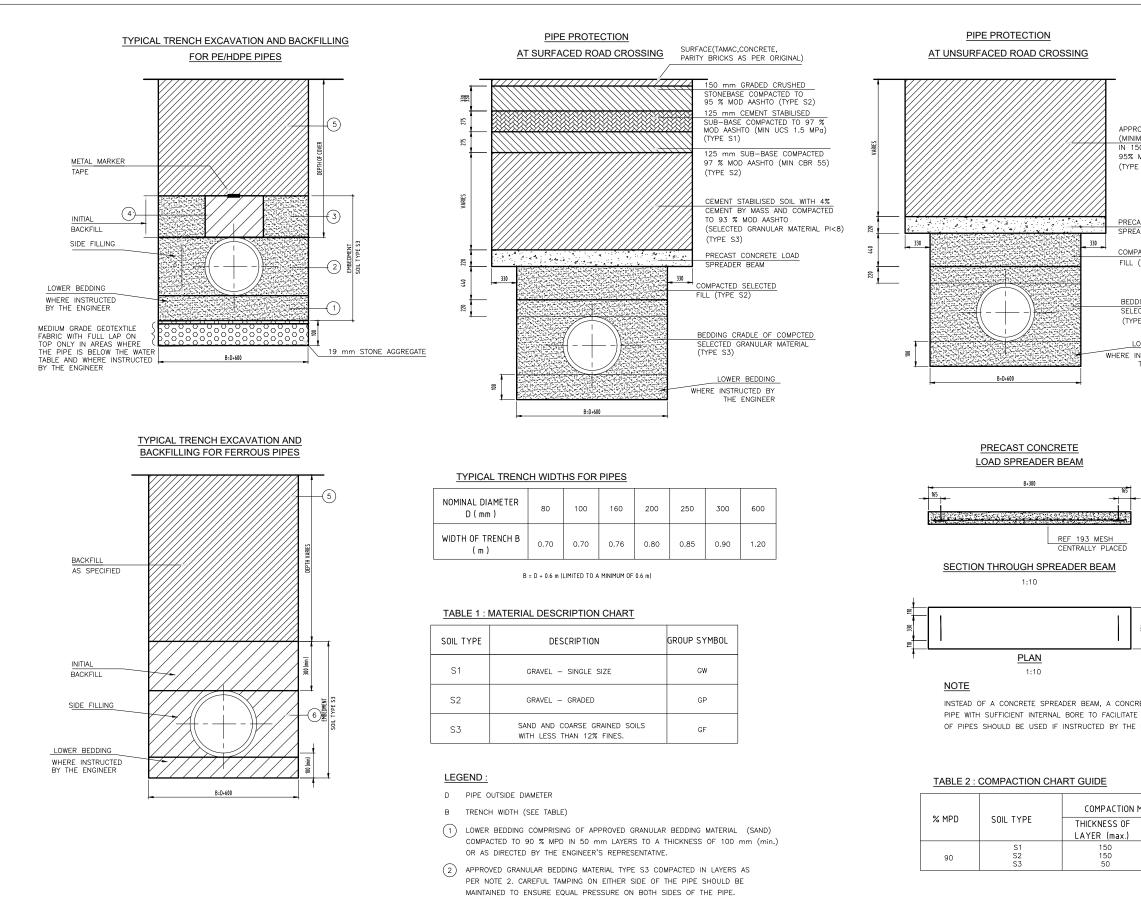
REDUCERS- TYPE RD (dimensions in metres)

Pipe	Test				
Diameter	Pressure				
		L	В	Н	Vol
(mm)	(m)	(m)	(m)	(m)	(m ³)
100/80	90	0.35	0.50	0.40	0.07
	150	0.35	0.55	0.45	0.09
	240	0.35	0.60	0.55	0.12
150/80	90	0.40	0.50	0.40	0.08
	150	0.40	0.60	0.40	0.10
	240	0.40	0.75	0.55	0.17
150/100	90	0.40	0.50	0.40	0.08
	150	0.40	0.60	0.40	0.10
	240	0.40	0.70	0.45	0.13
200/100	90	0.40	0.70	0.50	0.14
	150	0.40	0.80	0.70	0.22
	240	0.40	1.00	0.80	0.32
200/150	90	0.40	0.60	0.40	0.09
	150	0.40	0.65	0.40	0.10
	240	0.40	0.75	0.50	0.15
250/100	90	0.40	0.80	0.60	0.18
	150	0.40	0.90	0.70	0.24
	240	0.40	1.00	0.80	0.31
250/150	90	0.40	0.80	0.60	0.18
	150	0.40	0.85	0.70	0.23
	240	0.40	0.95	0.85	0.32
250/200	90	0.40	0.70	0.60	0.16
	150	0.40	0.75	0.70	0.20
	240	0.40	0.90	0.80	0.28
300/100	90	0.40	1.00	0.70	0.27
	150	0.40	1.30	0.90	0.46
	240	0.40	1.50	1.00	0.59
300/150	90	0.40	1.00	0.70	0.27
	150	0.40	1.25	0.80	0.39
	240	0.40	1.50	1.00	0.59
300/200	90	0.40	1.00	0.70	0.27
	150	0.40	1.00	0.80	0.31
	240	0.40	1.20	1.00	0.47
300/250	90	0.40	1.00	0.70	0.26
	150	0.40	1.00	0.80	0.30
	240	0.40	1.10	1.00	0.42

HORIZONTAL BENDS - TYPE HB (dimensions in metres)

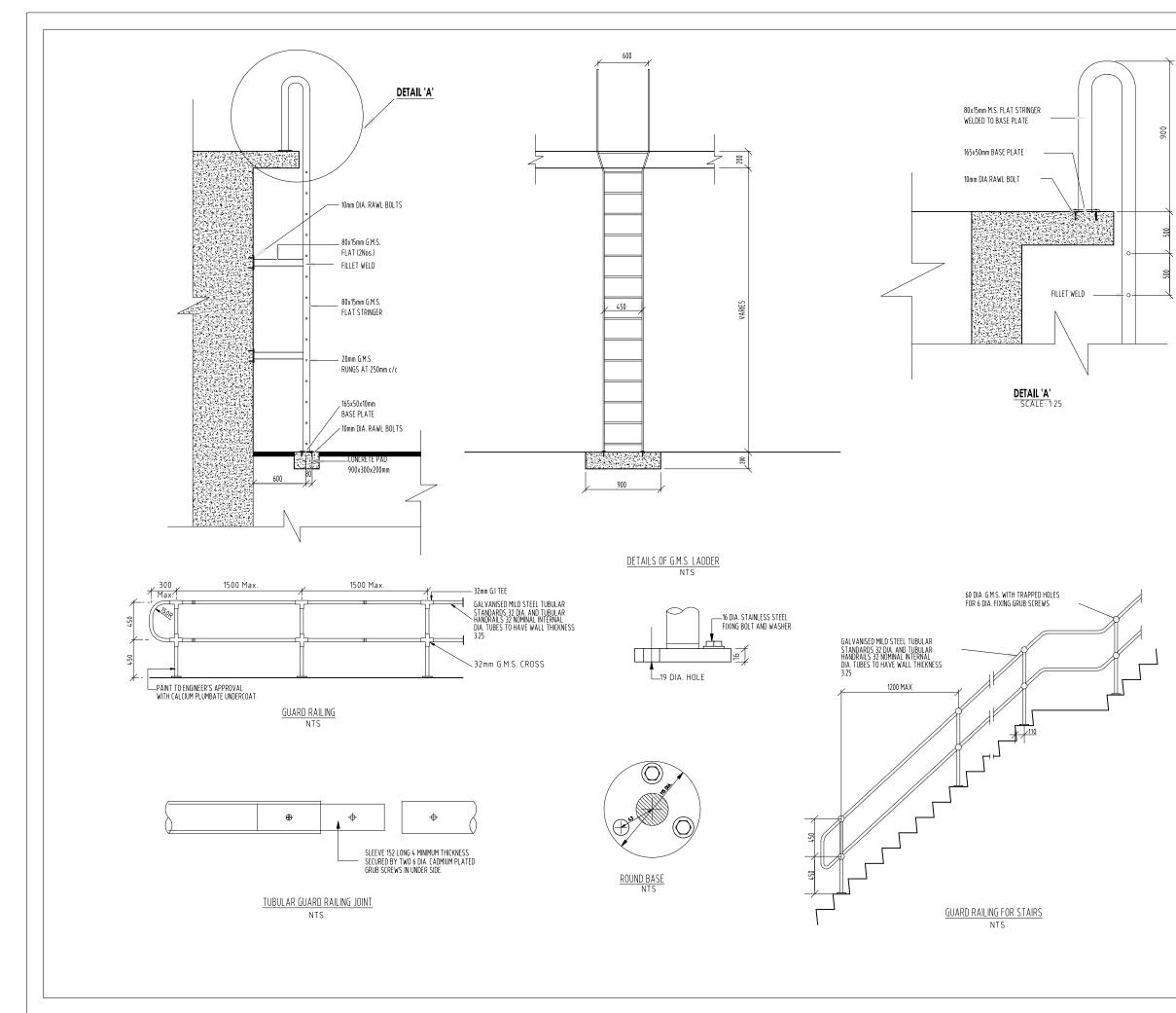
Pipe Diameter	Test Pressure		9	0 deg	I			4	15 deç)			2	2.5 de	eg			11	l.25 d	eg		Bran Diame			Tees	and E	Ends	
Diameter	Flessule	н	I	в	L2	Vol	н	1	В	L2	Vol	н	1	В	L2	Vol	н		в	L2	Vol	Diame	lei Fiessule	Н		В*	L2	Vol
(mm)	(m)	(m)	(m)	(m)	(m)	(m ³)	(m)	(m)	(m)	(m)	(m ³)	(m)	(m)	(m)	(m)	(m ³)		(m)			(m^3)	(mn) (m)	(m)	(m)			(m ³)
65	90	0.30	0.30	<u>`</u>	· /	· ,	(m)	· ,	<u>`</u>	· /		(111)	(m)		(III)	()	(11)	(11)	(m)	(m)	()	65	90	0.24	, í	<u>`</u>	l · · ·	-
65	90 150	0.30	0.30	0.60	0.10	0.04	0.20	0.21	0.60	0.10	0.02											60	90 150		0.25	0.60	0.07	
	240			0.60	0.10	0.06	0.28	0.28	0.60	0.10	0.03	0.04	0.05	0.00	0.40	0.00							240	0.33	0.33	0.60		-
0.0		0.50	0.51				0.36	0.37			0.05	0.24	0.25	0.60	0.10	0.03								0.42	0.43	0.60		
80	90	0.32	0.32		0.10		0.22	0.22		0.10												80	90	0.26	0.26	-	0.08	-
	150	0.42	0.43	0.60	0.10		0.30	0.30	0.60	0.10	0.04	0.19	0.20	0.60	0.10	0.02							150	0.35	0.35	0.60		-
	240	0.54	0.54	0.60	0.10		0.39	0.39	0.60	0.10	0.06	0.26	0.27	0.60	0.10	0.03	0.17	0.17	0.60	0.10	0.01		240	0.45	0.46	0.60		_
100	90	0.46	0.46	0.65	0.15		0.33	0.33	0.65	0.15	0.05	0.22	0.23	0.65	0.10	0.02						100	90	0.39	0.39	-	0.10	-
	150	0.60	0.60	0.65	0.15	0.15	0.43	0.44	0.65	0.15		0.30	0.31	0.65	0.10	0.04	0.20	0.20	0.65	0.10	0.02		150	0.50	0.51		0.10	
	240	0.76	0.76	0.65	0.15	0.23	0.55	0.56	0.65	0.15	0.13		0.40	0.65	0.10	0.07	0.26	0.27	0.65	0.10			240	0.64	0.64		0.10	
150	90	0.67	0.67	0.65	0.30	0.19	0.49	0.50	0.65	0.20		0.34	0.35	0.65	0.14	0.05	0.22	0.23	0.65	0.13	0.03	150		0.57	0.57	0.65		
	150	0.86	0.87	0.65	0.30	0.30	0.64	0.64	0.65	0.20	0.17	0.45	0.46		0.14	0.09	0.31	0.31	0.65	0.13			150	0.73	0.74	0.65		
	240	1.01	1.18	0.65	0.30	0.46	0.81	0.81	0.65	0.20	0.26	0.58	0.58	0.65	0.14	0.13	0.40	0.41	0.65	0.13	0.07		240	0.92	0.93	0.65	0.15	0.33
200	90	0.87	0.87	0.70	0.35	0.32	0.64	0.65	0.70	0.20	0.18	0.46	0.46	0.70	0.14	0.09	0.31	0.32	0.70	0.13	0.05	200	90	0.74	0.74	0.70	0.20	0.24
	150	1.05	1.19	0.70	0.35	0.51	0.83	0.83	0.70	0.20	0.28	0.59	0.60	0.70	0.14	0.15	0.41	0.42	0.70	0.13	0.08		150	0.94	0.95	0.70	0.20	0.37
	240	1.05	1.91	0.70	0.35	0.79	1.04	1.05	0.70	0.20	0.43	0.75	0.76	0.70	0.14	0.23	0.53	0.54	0.70	0.13	0.12		240	1.05	1.36	0.70	0.20	0.57
250	90	1.05	1.06	0.70	0.40	0.45	0.78	0.79	0.70	0.25	0.24	0.56	0.57	0.70	0.15	0.13	0.39	0.39	0.70	0.14	0.07	250	90	0.89	0.90	0.70	0.25	0.34
	150	1.09	1.70	0.70	0.40	0.72	1.00	1.01	0.70	0.25	0.40	0.73	0.73	0.70	0.15	0.21	0.51	0.52	0.70	0.14	0.11		150	1.09	1.21	0.70	0.25	0.53
	240	1.09	2.74	0.70	0.40	1.13	1.09	1.48	0.70	0.25	0.62	0.91	0.92	0.70	0.15	0.32	0.65	0.66	0.70	0.14	0.17		240	1.09	1.94	0.70	0.25	0.82
300	90	1.13	1.49	0.75	0.40	0.69	0.96	0.97	0.75	0.25	0.38	0.69	0.70	0.75	0.16	0.20	0.48	0.49	0.75	0.15	0.10	300	90	1.09	1.10	0.75	0.30	0.52
	150	1.13	2.50	0.75	0.40	1.12	1.13	1.35	0.75	0.25	0.61	0.89	0.89	0.75	0.16	0.32	0.63	0.64	0.75	0.15	0.17		150	1.13	1.77	0.75	0.30	0.82
	240	1.13	4.01	0.75	0.40	1.76	1.13	2.17	0.75	0.25	0.96	1.11	1.12	0.75	0.16	0.49	0.80	0.81	0.75	0.15	0.26		240	1.13	2.83	0.75	0.30	1.27

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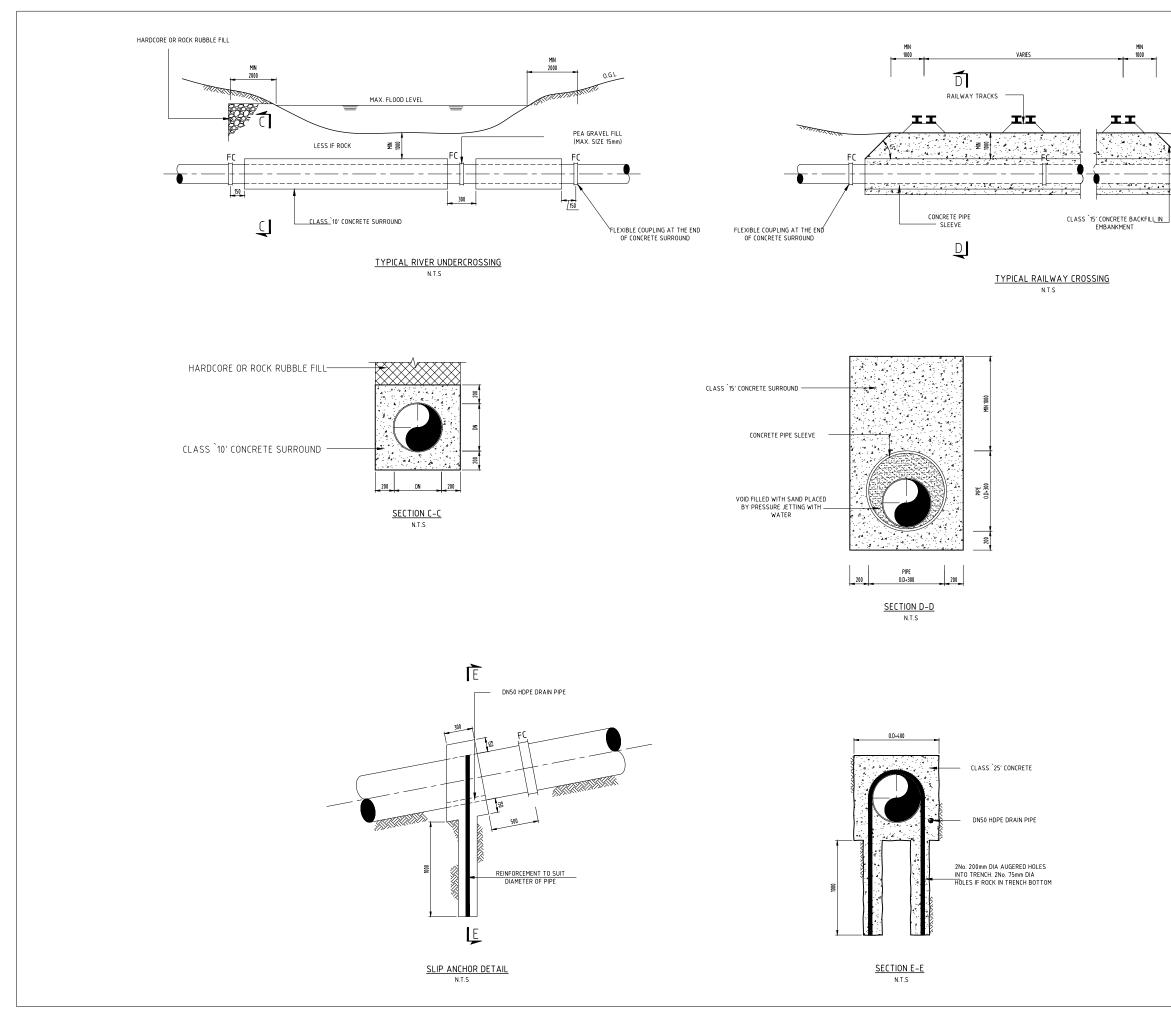


- APPROVED GRANULAR BEDDING MATERIAL TYPE S3 COMPACTED IN SHALLOW LAYERS TO A MAXIMUM OF 150 mm THICK.
- (4) AS IN (3) ABOVE, BUT EXCESSIVE TAMPING TO BE AVOIDED.
- 5 NORMAL BACKFILL MATERIAL PROPERLY RAMMED IN LAYERS. NOT EXCEEDING 150 mm THICK.

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