

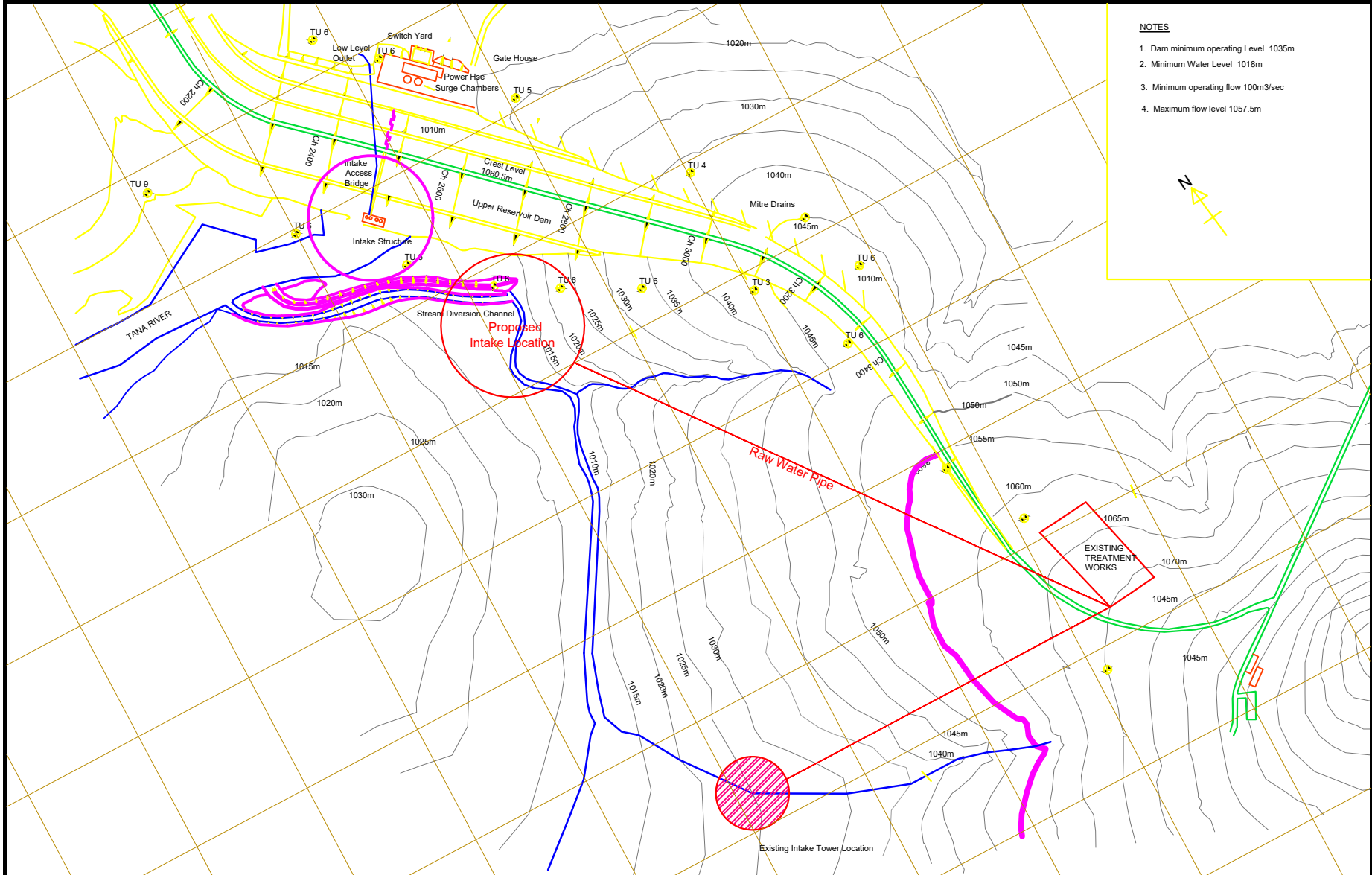



No. Revisions	Date	Approved By:	Client: MINISTRY OF WATER, SANITATION, & IRRIGATION	Project: MASINGA - KITUI WATER SUPPLY AND SANITATION PROJECT	Financed by:- GOVERNMENT OF KENYA	Reviewed by: TANATHI WATER WORKS DEVELOPMENT AGENCY K.I. D.P Building, Kalawa Road, P.O Box Private Bag - 90200 KITUI	Reviewed : G.M	Prepared by:- CAS CONSULTANTS LTD Nelleon Place, Rhapsa Rd, Westlands, Nairobi, Kenya P. O. Box 67693, 00200 Tel: +254 204445265/40 Email: casconsult@africaonline.co.ke	Drawn : G.M
I. Revision 1	Sept '22	SMM							Checked : G.M
			  TANATHI WATER WORKS DEVELOPMENT AGENCY	Title: LOCATION PLAN FOR INTAKE			Checked : D.N	Approved : SMM	Checked : D.N
									Approved: SMM
									Date : July 2023
									Scale : As Shown
									Drwg No. : DRG/01/2023-2024



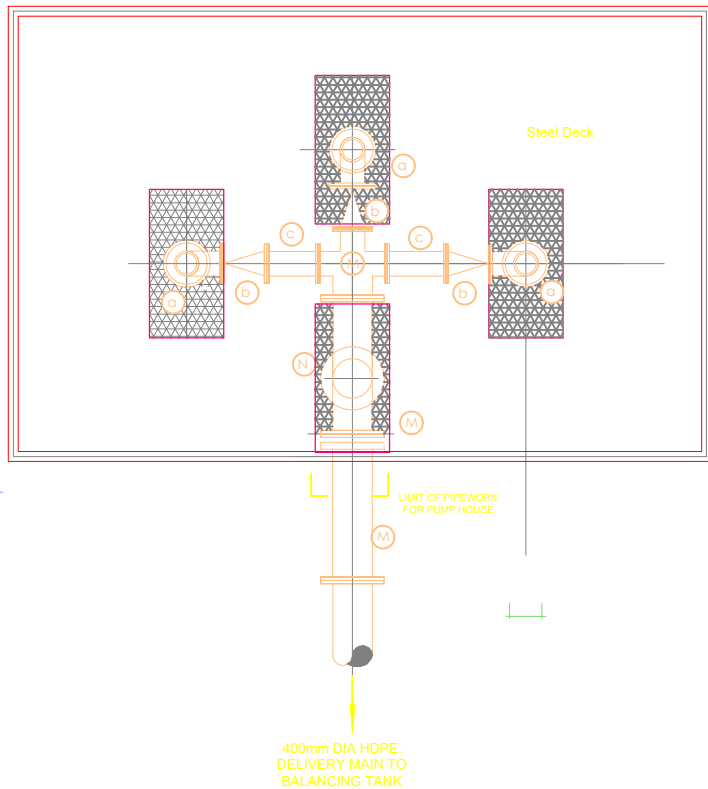
- NOTES**
1. Dam minimum operating Level 1035m
 2. Minimum Water Level 1018m
 3. Minimum operating flow 100m³/sec
 4. Maximum flow level 1057.5m



No. Revisions 1. Revision 1	Date Sept 27	Approved By: SMM	Client: MINISTRY OF WATER, SANITATION & IRRIGATION  TANATHI WATER WORKS DEVELOPMENT AGENCY	Project: MASINGA - KITUI WATER SUPPLY AND SANITATION PROJECT Title: INTAKE LAYOUT PLAN	Financed by:- GOVERNMENT OF KENYA	Reviewed by: TANATHI WATER WORKS DEVELOPMENT AGENCY K1 D.P Building, Katon Road, P.O Box Private Bag - 90200 KITUI	Reviewed : G.M	Prepared by:- CAS CONSULTANTS LTD Nelton Place, Rhapsa Rd, Westlands, Nairobi, Kenya P. O. Box 67693, 00200 Tel: +254 204445265/40 Email: casconsult@africonline.co.ke	Drawn : G.M Checked : G.M Checked : D.N Approved: SMM Date : July 2023 Scale : As Shown Drg No. : MK/IW/001B
							Checked : D.N Approved : SMM Date : JULY 2023		

**AIR MAIN PIPEWORK SCHEDULE:
(FERROUS PIPES)**

ITEM No.	DESCRIPTION	DIA. (mm)	LENGTH (mm)	QUANTITY (No.)
①	FLANGED SPIGOT PIPE WITH SPIGOT END BLANKED OFF AND 2 No. 12 mmØ HOLES AND HEXAGON NUTS WELDED AT 215mm and 310mm c/c ON UNDERSIDE AS PER DETAILS SHOWN	100	4105	6
②	ALL FLANGED TEE WITH 2 No. 12 mmØ HOLES AND HEXAGON NUTS WELDED AT 215mm c/c ON UNDERSIDE AS PER DETAILS SHOWN	1000	1000	6
③	FLANGED SPIGOT PIPE WITH SPIGOT END BLANKED OFF AND 1 No. 12 mmØ HOLES AND HEXAGON NUTS WELDED AT 65mm FROM SPIGOT END AS PER DETAILS SHOWN	100	205	6
④	ALL FLANGED PIPE	100	3070	6
⑤	ALL FLANGED 90° SHORT RADIUS BEND	1000	1000	6
⑥	FLANGED SPIGOT PIPE	100	1775	6
⑦	VIKING JOHNSON FLANGE ADAPTOR	100	116	6
⑧	ALL FLANGED GATE VALVE WITH EXTENSION SPINDLE AND HEADSTOCK	100	300	6
⑨	ALL FLANGED TEE	1000	1000	6
⑩	ALL FLANGED PIPE	100	3290	5
⑪	BLANK FLANGE	100	-	1
⑫	ALL FLANGED PIPE	100	1965	1



No. Revisions	Date	Approved By:
1. Revision 1	Sept '22	SMM

Client: MINISTRY OF WATER, SANITATION, & IRRIGATION

TANATHI WATER WORKS DEVELOPMENT AGENCY

Project:
MASINGA - KITUI WATER SUPPLY AND SANITATION PROJECT

Title:
FLOATING INTAKE SECTION

Financed by:-
GOVERNMENT OF KENYA

Reviewed by:
TANATHI WATER WORKS DEVELOPMENT AGENCY
K.I. D.P Building, Kalawa Road,
P.O Box Private Bag - 90200
KITUI

Reviewed : G.M

Checked : D.N

Approved : SMM

Date : JULY 2023

Prepared by:-
CAS CONSULTANTS LTD
Nelson Place, Rungu Rd,
Westlands, Nairobi, Kenya
P. O. Box 67693, 00200
Tel: +254 204445265/40
Email: casconsult@africaonline.co.ke

Drawn : G.M

Checked : G.M

Checked : D.N

Approved: SMM

Date : JULY 2023

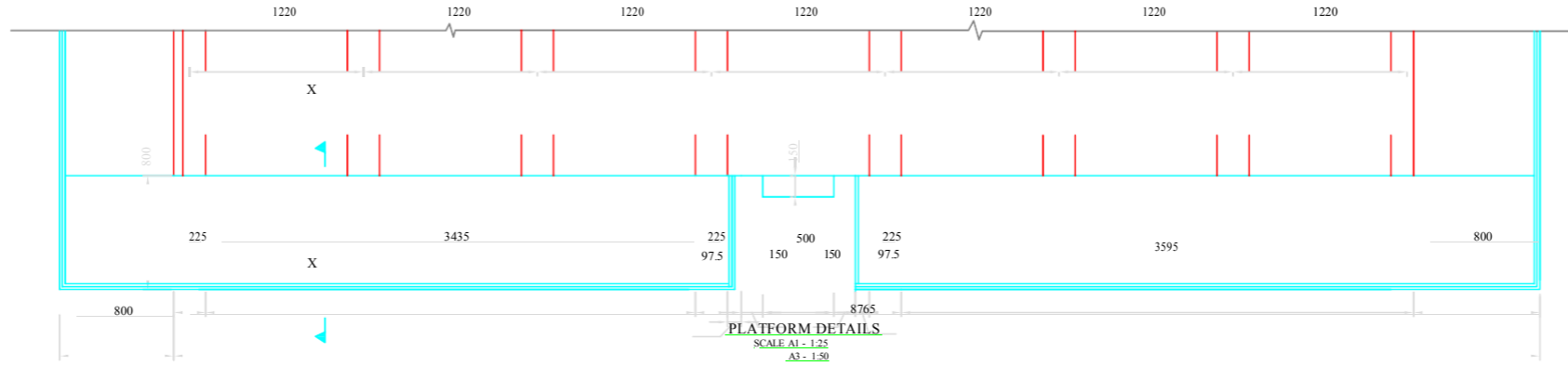
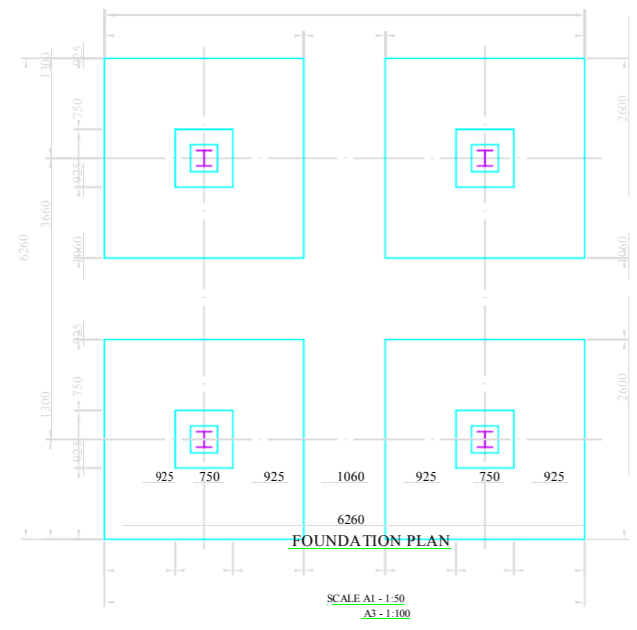
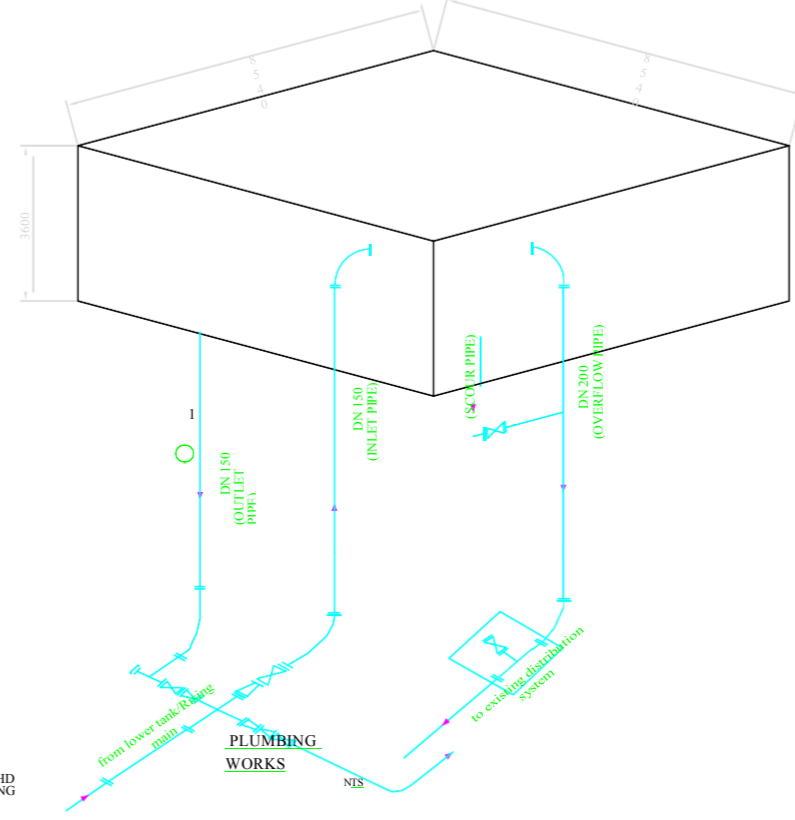
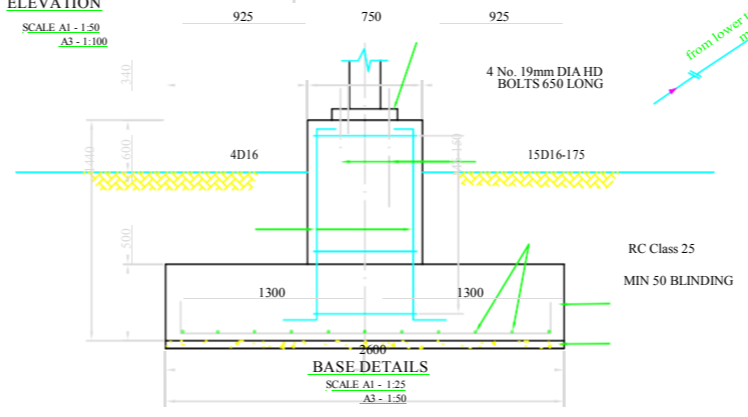
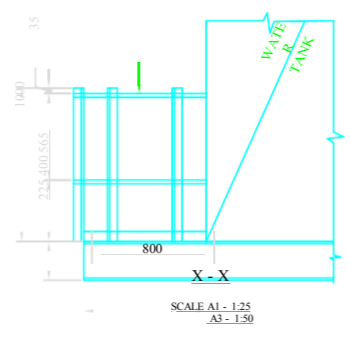
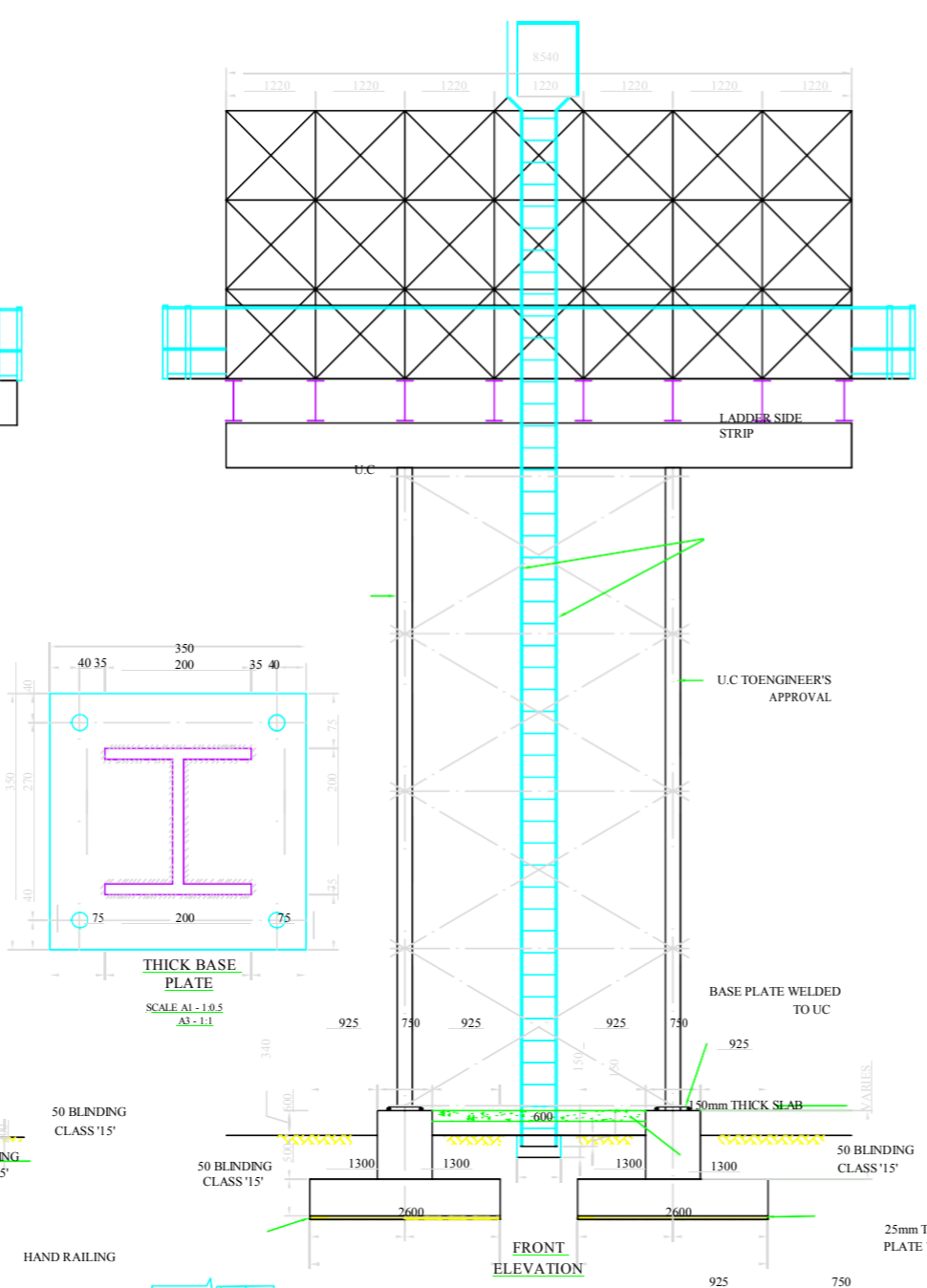
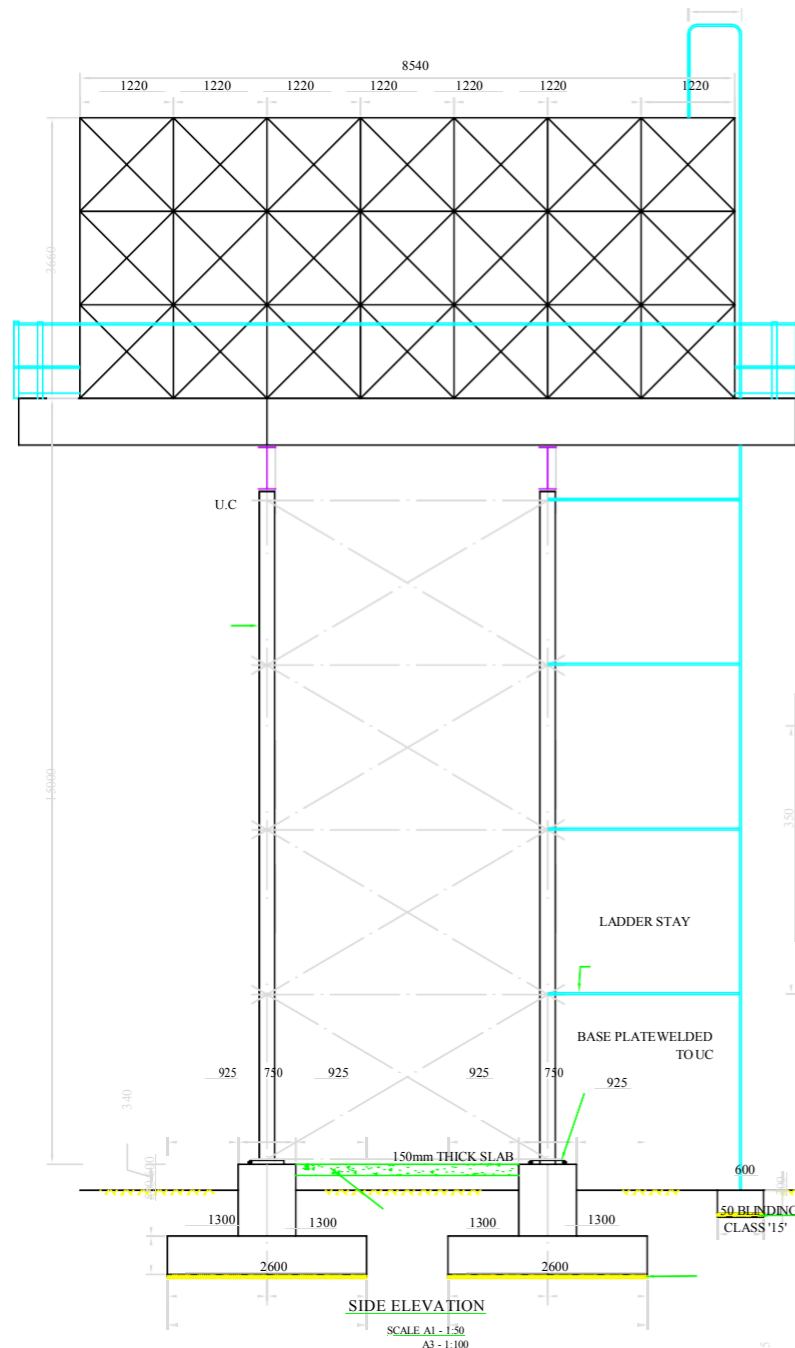
Scale : As Shown

Drg No. : MK/IW/001C

INLET, OUTLET, OVERFLOW AND SCOUR PIPEWORK SCHEDULES

ITEM	DESCRIPTION	DIA. (mm)	LENGTH (mm)	QUANTITY (No.)
INLET- APPROVED GI PIPES				
A	90° SHORT RADIUS BEND, ONE END FLANGED	150	1500	1
B	ALL FLANGED PIPE	150	15000	1
C	ALL FLANGED 90° SHORT RADIUS BEND.	150	400	1
OUTLET- APPROVED GI PIPES				
D	FLANGED SPIGOT PIPE	150	11550	1
E	ALL FLANGED 90° SHORT RADIUS BEND.	150	400	4
OVERFLOW- APPROVED GI PIPES				
J	ALL FLANGED PIPE	100	15000	1
K	ALL FLANGED PIPE	100	190	1
SCOUR- APPROVED GI PIPES				
F	FLANGED SPIGOT PIPE	200	11780	1
G	ALL FLANGED 90° SHORT RADIUS BEND.	200	1500	1
H	ALL FLANGED SLUICE VALVE	200	350	1
I	ALL FLANGED PIPE	200	1120	1

- NOTES**
- STRUCTURAL DETAILS TO BE TO ENGINEER'S APPROVAL
 - R.C BASE TO BE CONFIRMED BY THE ENGINEER



TANATHI WATER WORKS DEVELOPMENT AGENCY

Prepared by: L.L.N
Checked by: David.O. M.
Approved by: Francis.K. S.

PROPOSED 250M3 TANK AT MAVOKO WATER TREATMENT PLANT