

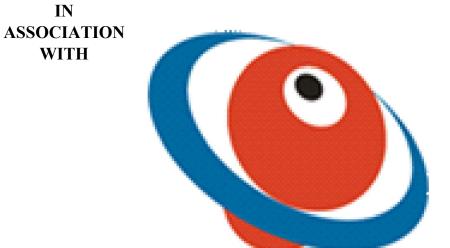
CONSTRUCTION OF MUWAYO TOWN COUNCIL PIPED WATER SUPPLY SYSTEM IN BUGIRI DISTRICT

BOOK OF DRAWINGS MAY 2023

CONSULTANTS:



WSS SERVICES (U) LIMITED
Plot 17 Kakungulu Road,
Ministers' Village Ntinda Kampala
P.O. Box 27755 Kampala,



INDIGO ENGINEERING LTD

Plot No. 56 Bombo Road, Kalmax Building P.O. Box 37783 Kampala, Uganda;

TABLE OF CONTENTS

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4.0 RESERVOIR DETAILS	GBUN4-5184/MWSS/4.0.0
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NOTES

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- 5). All mass concrete is class 15/10mm aggregate

CLIENT:



GOAL UGANDA Behind Grand Pearl Hotel Muyenga, P.O Box 33140, Uganda, Kampala

FINANCED BY:

PROJECT

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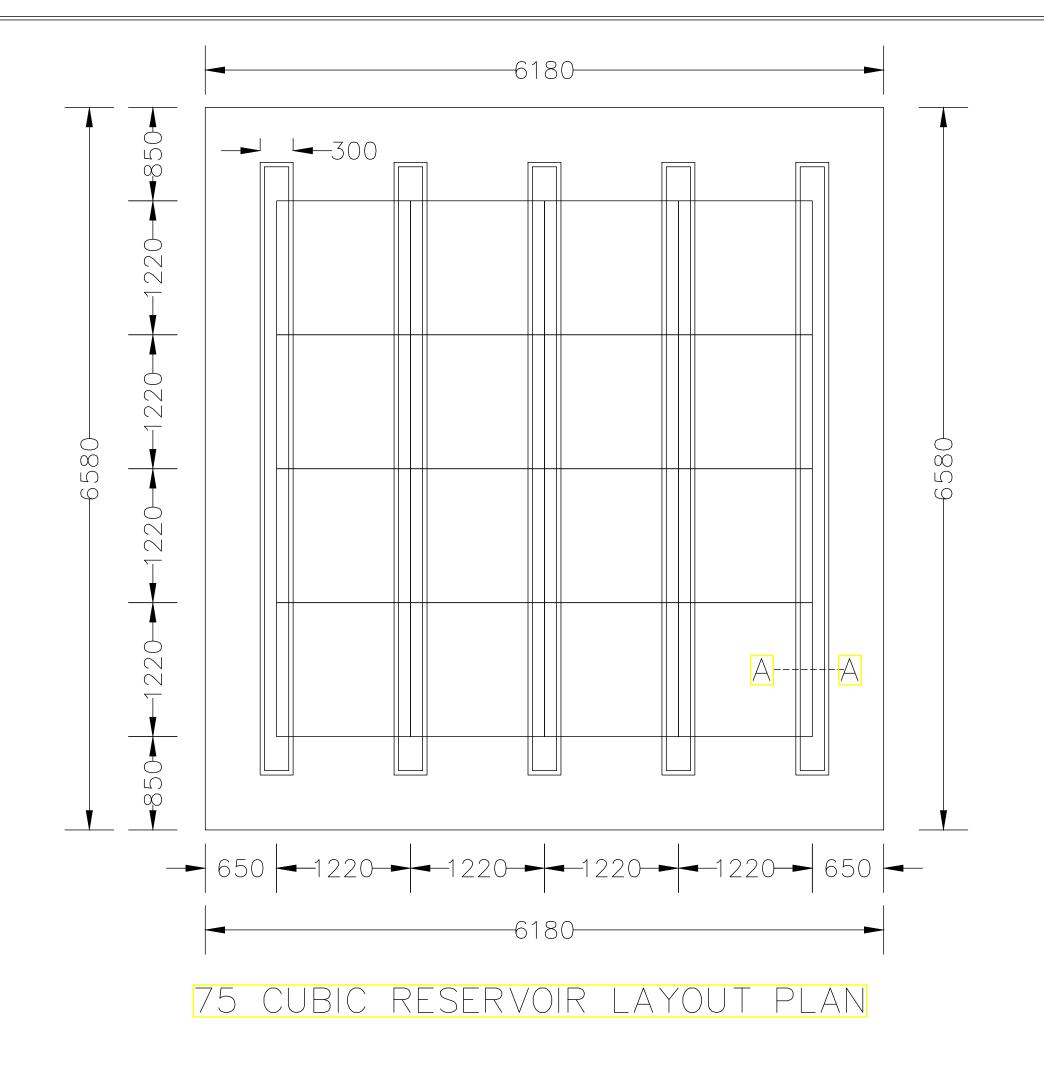




DRAWING TITLE MUWAYO PROJECT

TABLE OF CONTENTS

SCALE #####	#	Drawing no. Gbun4-5184/mwss/i					
SURVEYED	A.M	DESIGNED	D.B				
DRAWN	F.S	CHECKED	E.T				
DATE	MAY. 2023	APPROVED	J.S				



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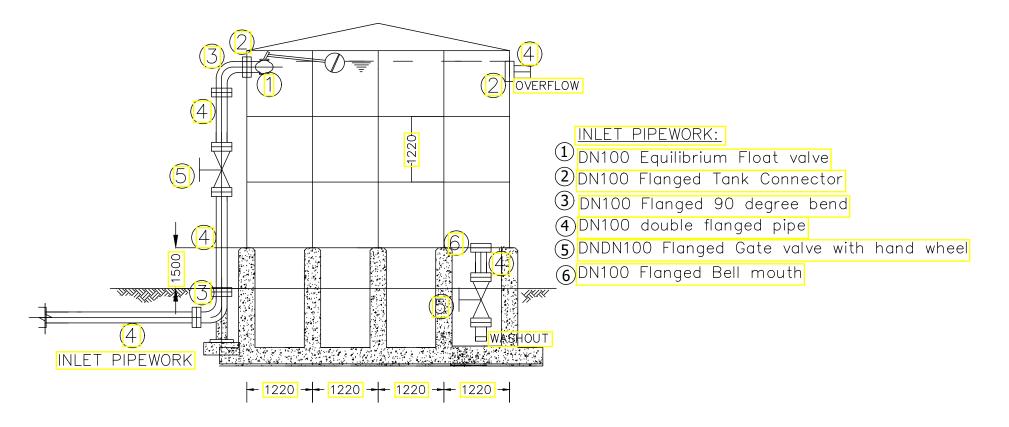
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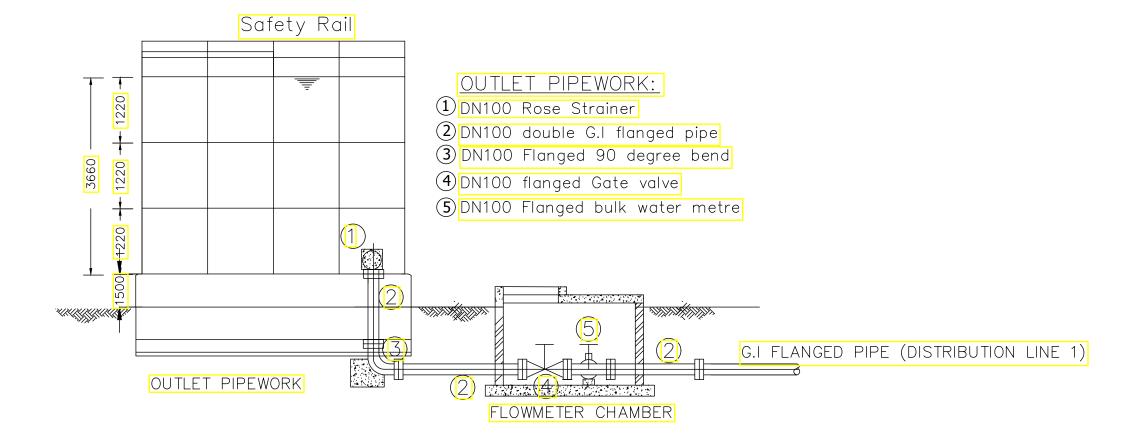
MUWAYO PROJECT

RESERVOIR LAYOUT PLAN

SCALE #####	#	DRAWING No. GBUN4-5184/MWSS/4.1				
SURVEYED	A.M	DESIGNED	D.B			
DRAWN	F.S	CHECKED	E.T			
DATE	MAY. 2023	APPROVED	J.S			

75 CUBICS RESERVOIR





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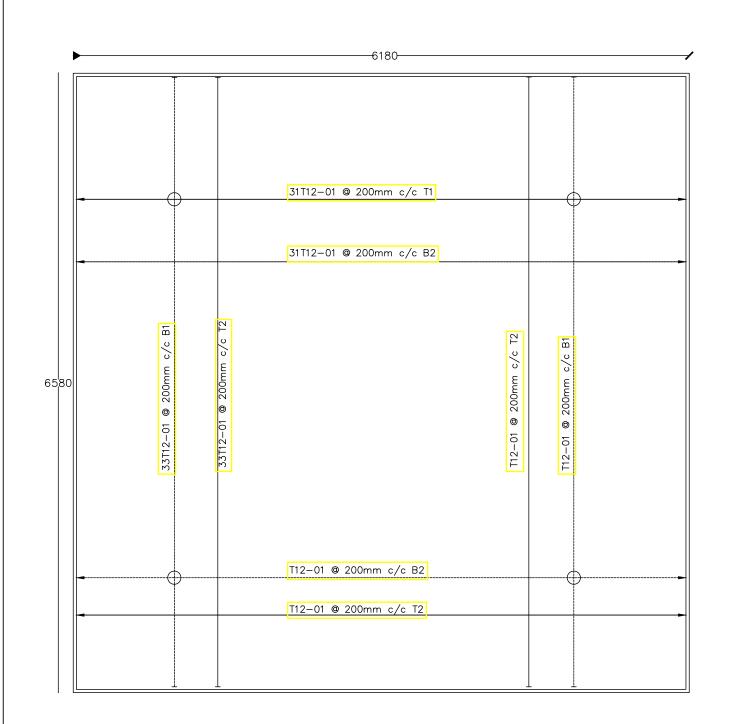


DRAWING TITLE

MUWAYO PROJECT

RESERVOIR ELEVATIONS

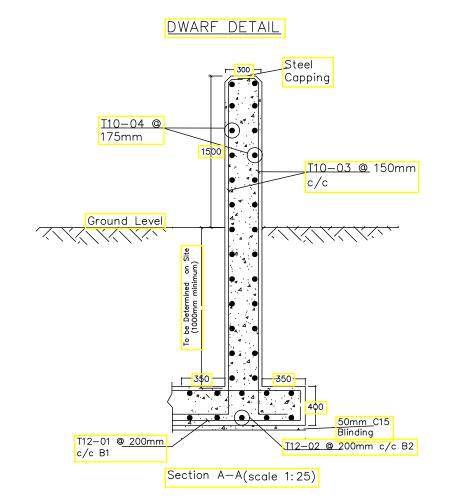
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DATE	MAY. 2023	APPROVED	J.S				



SLAB REINFORCEMENT LAYOUT

NOTES

- 1. All dimensions are in millimetres unless otherwise stated
- 2. All levels are in metres unless otherwise stated
- 3. Blinding is mass concrete C15
- 4. Base slab and walls concrete are reinforced concrete C25.
- 5. Dwarf Walls to be constructed at each joint.
- 6. Depth to Foundation to be confirmed on site.
- 7. 4X4X3 Steel plates of 1220mm x1220mm to be used



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DRAWING TITLE

MUWAYO PROJECT

RESERVOIR FOUNDATION STRUCTURAL DETAILS

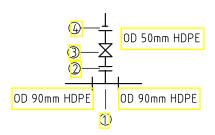
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DATE	MAY. 2023	APPROVED	J.S			

NODE DETAIL N1 DN100mm uPVC DN80 HDPE

SCHEDULE OF PIPEWORK & FITTINGS

ITEM		DESCRIPTION	SIZE(DN)	Q T	Υ.	PN
1.	FLANGED TAPER		100/80	T	1	10

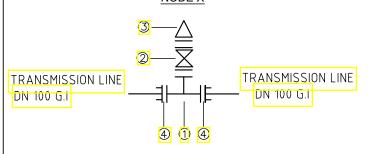
NODE DETAIL N2



SCHEDULE OF PIPEWORK & FITTINGS

ITEM		DESCRIPTION		S	IZE(OD)	Q	TY.	PN
1.	FLANGED HDPE EQ	JAL TEE			90		1	10
2.	FLANGED ADAPTOR			90		1	10	
3.	FLANGED GATE VALVE			90		1	10	
4.	HDPE REDUCING BUS	SH		•	90/50		1	10

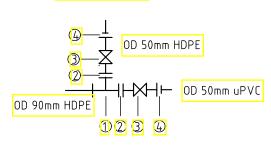
NODE X



SCHEDULE OF PIPEWORK & FITTINGS

ITEM	DESCRIPTION	SIZE(ND)	QTY.
1.	FLANGED REDUCING TEE	100/50	1
2.	FLANGED GATE VALVE	50	1
3.	FLANGED AIR RELEASE VALVE	50	1
4	G.I FLANGE	100	2

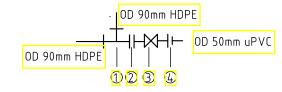
NODE DETAIL N3



SCHEDULE OF PIPEWORK & FITTINGS

ITEM		DESCRIPTION		S	IZE(OD)	C	ΤY	ļ	PN
1.	FLANGED HDPE EQUAL TEE			90		1	İ	10	
2.	FLANGED ADAPTOR			90		2	Ì	10	
3.	FLANGED GATE VALVE			90		1	ĺ	10	
4.	HDPE REDUCING BUS	SH			90/50		1	İ	10

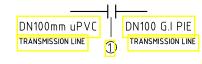
NODE DETAIL N4



SCHEDULE OF PIPEWORK & FITTINGS

ITEM		DESCRIPTION		SI	ZE(OD)	C T	۲.	PN
1.	FLANGED HDPE EQ	UAL TEE			90	1	ıſ	10
2.	FLANGED ADAPTOR			ĺ	90	1	Ī	10
3.	FLANGED GATE VALVE			90	1		10	
4.	HDPE REDUCING BU	SH		Ş	90/50	1	Ī	10

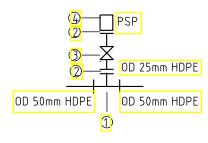
NODE DETAIL N5



SCHEDULE OF PIPEWORK & FITTINGS

				_
ITEM		DESCRIPTION	SIZE(DN)	QTY.
1.	FLANGED STRAIG	HT COUPLER	100/100	1

PSP CONNECTION DETAIL



SCHEDULE OF PIPEWORK & FITTINGS

ITEM	DESCRIPTION	SIZE(OD)	QTY.	PN
1.	FLANGED REDUCING TEE	50/25	1	10
2.	FLANGED ADAPTOR	25	2	10
3.	FLANGED GATE VALVE	25	1	10
4.	PSP YARD TAP	25	1	10

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In Association with

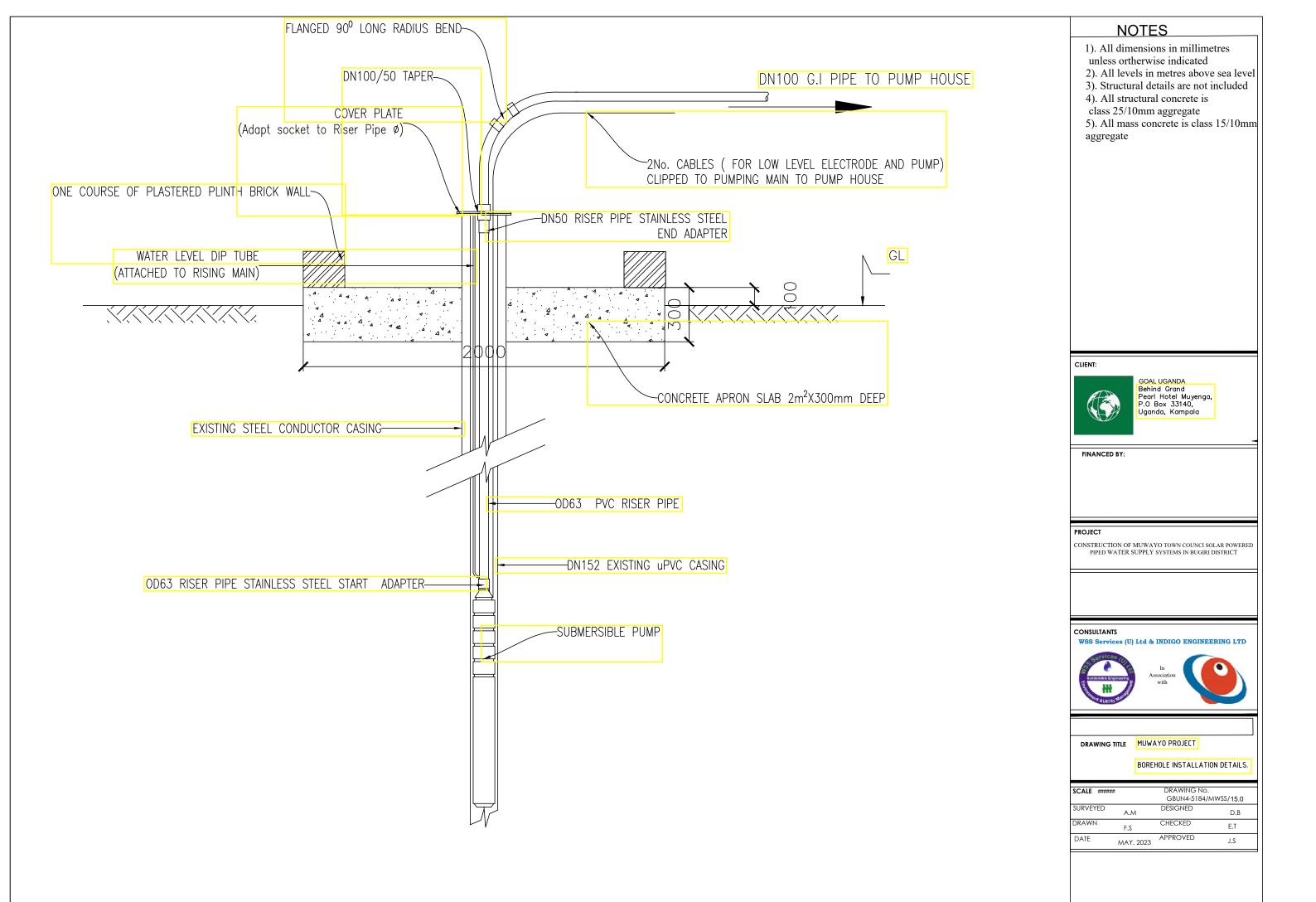


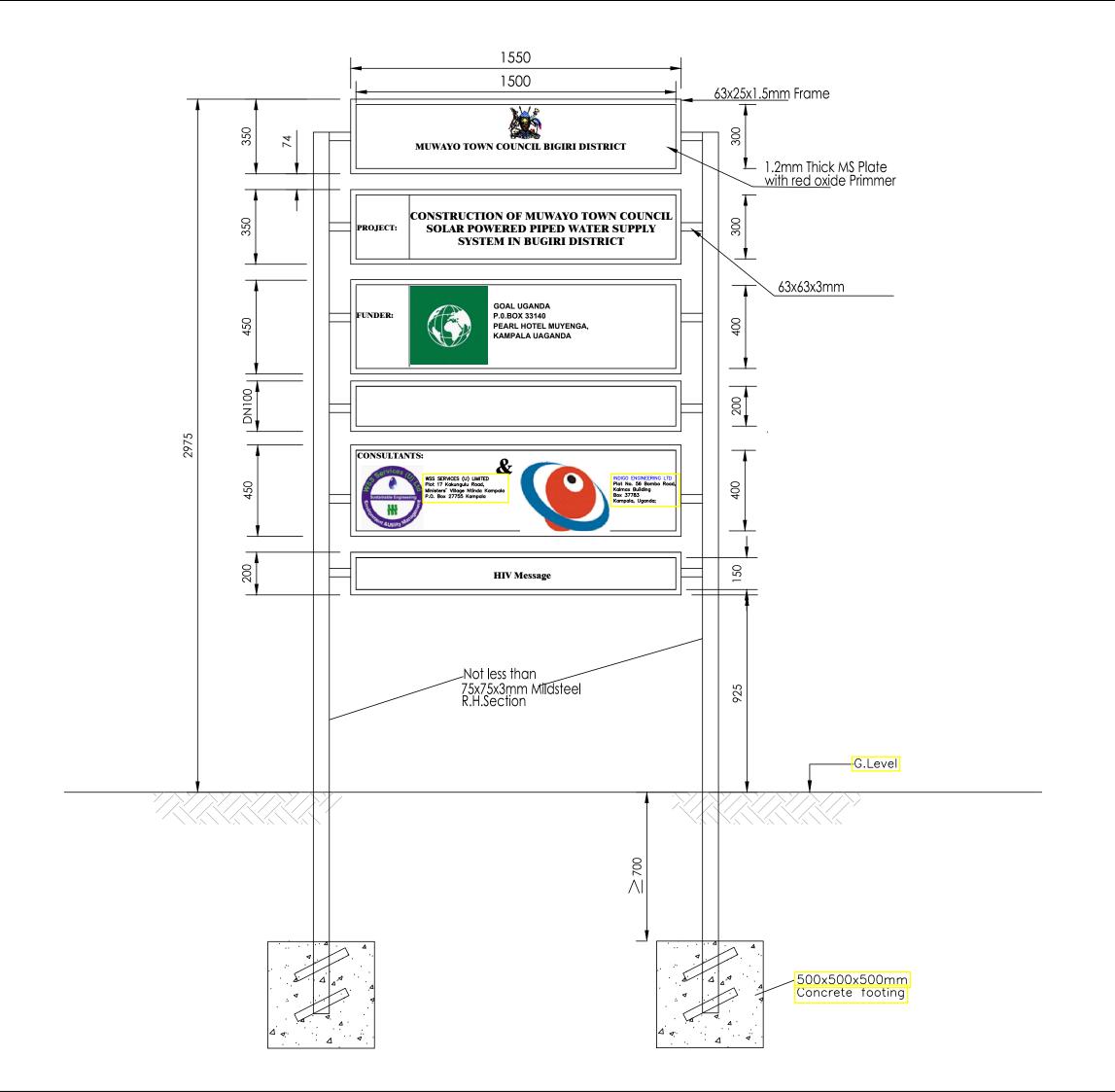
DETAILED ENGINEERING DESIGN

DRAWING TITLE

PIPE FITTING SCHEDULE

SCALE 1:200)	DRAWING No.	
	1:50 GBUN4-5184/MWSS/		
SURVEYED	A.M	DESIGNED	D.B
DRAWN	F.S	CHECKED	E.T
DATE	MAY. 2023	APPROVED	J.S





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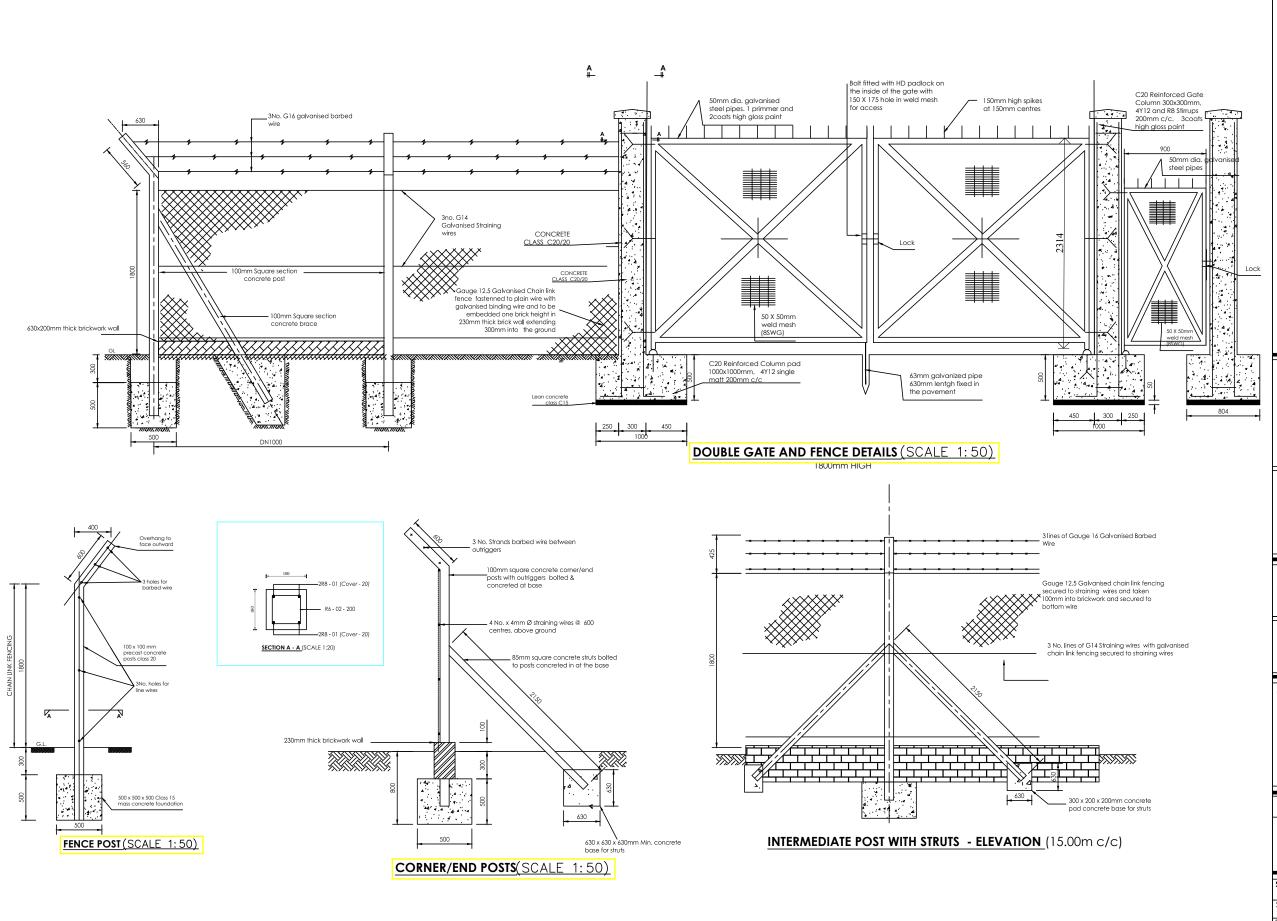
DETAILED ENGINEERING DESIGN

DRAWING TITLE

MUWAYO PROJECT

SIGN BOARD

SCALE #####	‡ 1:50	DRAWING No. 1:50 GBUN4-5184/MWSS/10.0	
SURVEYED	A.M	DESIGNED	D.B
DRAWN	F.S	CHECKED	E.T
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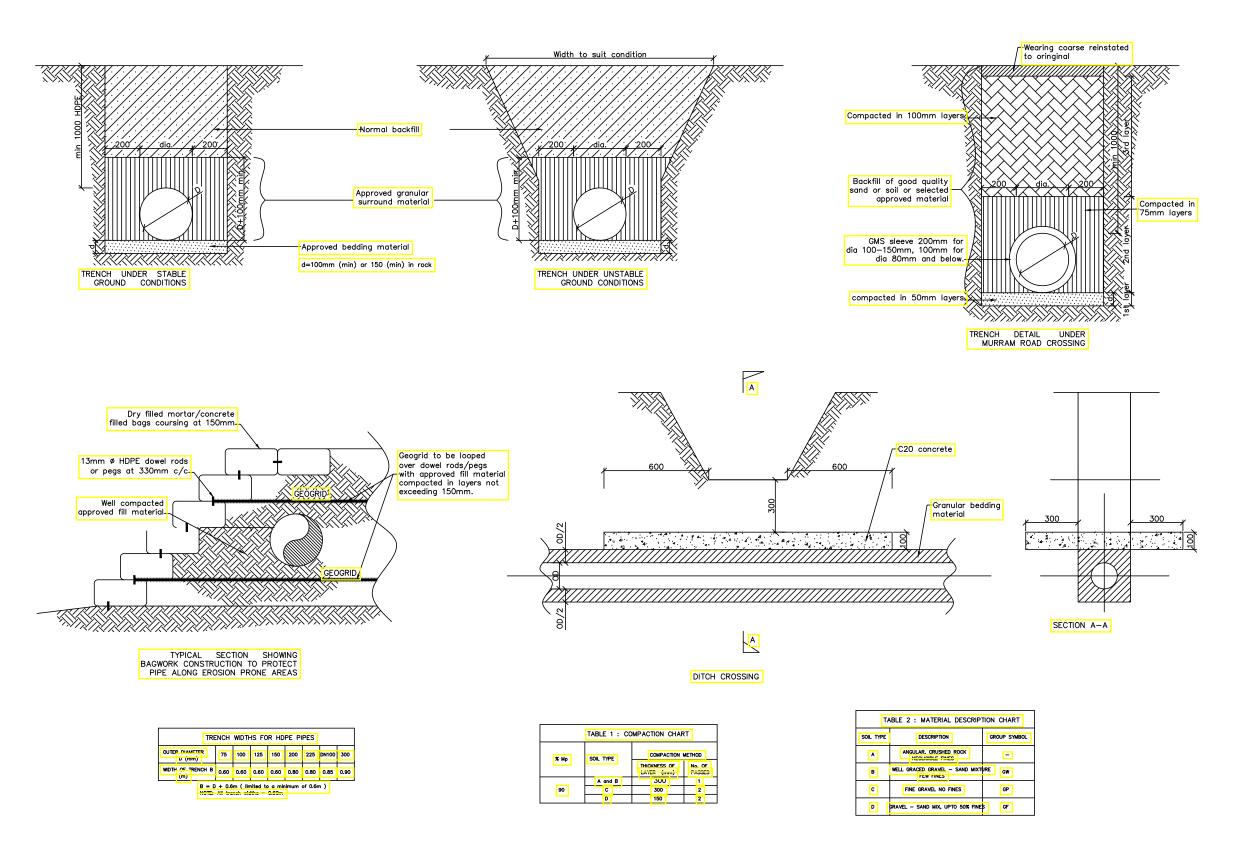


DRAWING TITLE

MUWAYO PROJECT

FENCE

SCALE #####	DRAWING No. GBUN4-5184/MWSS/11.0		
SURVEYED	A.M	DESIGNED	D.B
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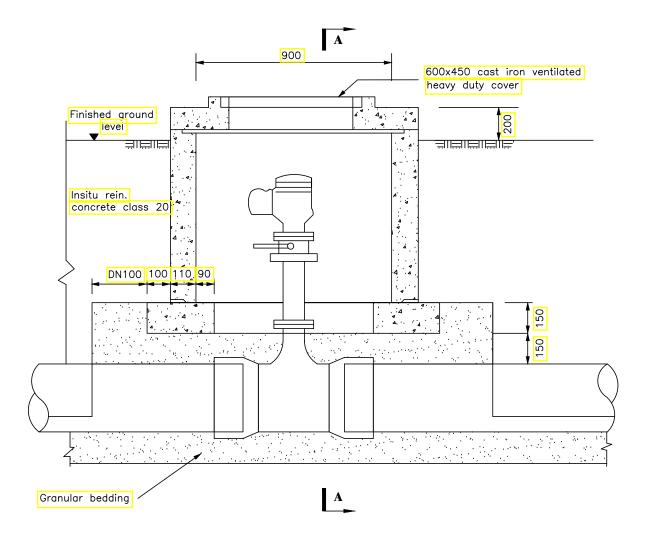


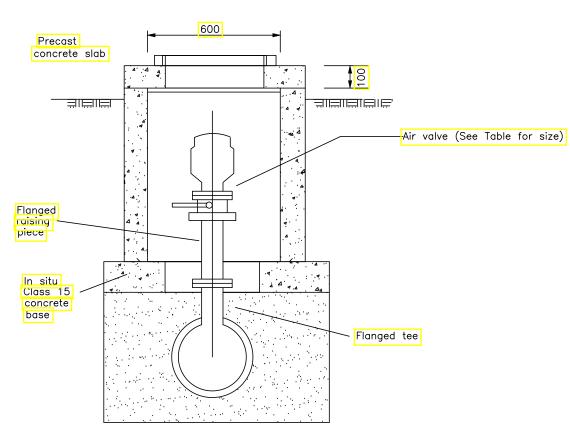
DRAWING TITLE

MUWAYO PROJECT

TRENCHING DETAILS

SCALE #####		DRAWING NO GBUN4-5184	-
SURVEYED	A.M	DESIGNED	D.B
DRAWN	F.S	CHECKED	E.T
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Main dia.	Air valve	
	inlet dia.	
100-300	50	
350-500	80	

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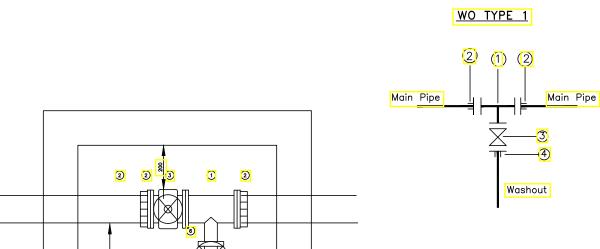




DRAWING TITLE MUWAYO PROJECT

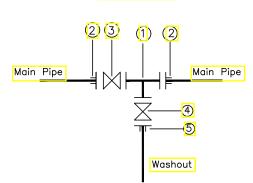
AIR RELEASE VALVE

SCALE #####	#	DRAWING No	
		GBUN4-5184/	MWSS/13.0
SURVEYED	A.M	DESIGNED	D.B
DRAWN	F.S	CHECKED	E.T
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- 1 All dimensions are in millimetres
- 2 Chamber to have internal dimensions as indicated
- 3 Chamber Base to be reinforced concrete C20 150mm with drain hole Reinforcement Y8 200mm C/C
- 4 Chamber Walls to be reinforced concrete C20 100mm thick Reinforcement BRC Mesh A142
- 4 Chamber Cover slab to be reinforced concrete C20 100mm thick Reinforcement Y10 200mm C/C with moveable cover 600x600 and frame
- 1No Saddle clamp Tee OD A/B
 2No PVC Adaptor, Maxi type or similar type OD A
 1No Brass Gate Valve OD A
- (4) 1No PVC Adaptor, OD B

WO TYPE 2



- 1No Saddle clamp Tee OD A/B
- (5) 1No PVC MALE Adaptor OD B
- (2) 2No PVC Adaptor, OD A
 (3) 1No Brass Gate Valve OD A
 (4) 1No Brass Gate Valve OD B

Pipe Diameter		Fittings [Diameter
Main Pipe	Washout	A	В
OD 50	OD 50	OD 63	OD 63
OD 63	OD 63	OD 50	OD 50
OD 160	OD 63	OD 80	OD 50
OD 110	OD 63	OD 100	OD 50
OD 160	OD 63	OD 150	OD 50
OD 218	OD 110	OD 200	OD 100
OD DN100	OD 110	OD DN100	OD 100
NOTE: Pressure ratings of Washouts and Fittings shall be similar to those of			

the main pipe on which the washout is to be installed

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CONSTRUCTION OF MUWAYO TOWN COUNCI SOLAR POWERED

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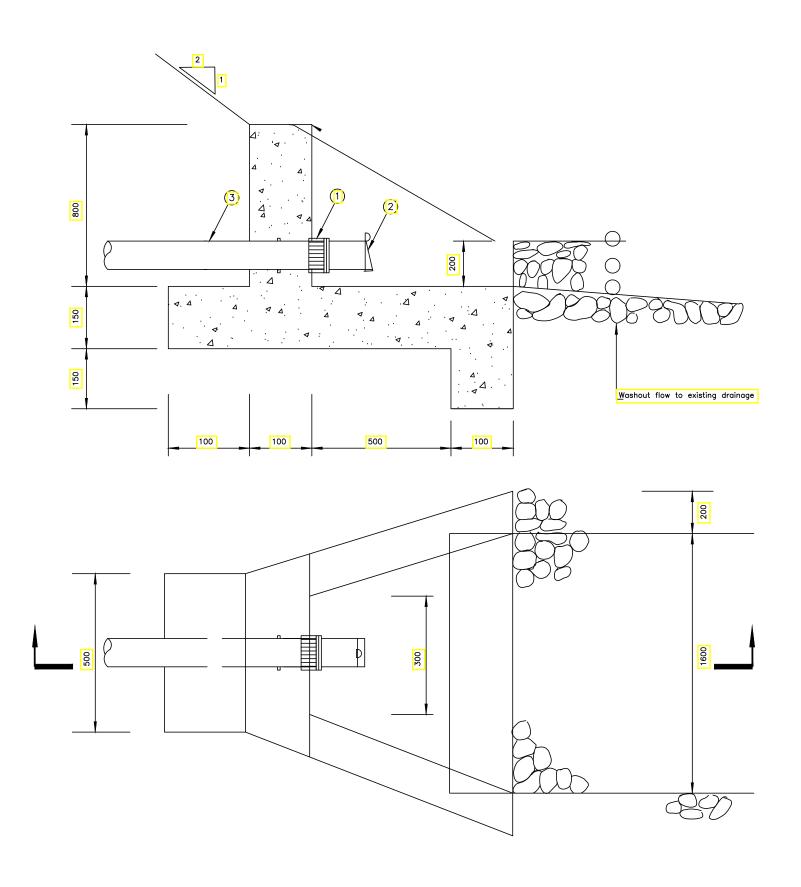




DRAWING TITLE MUWAYO PROJECT

WASHOUT

SCALE #####	ŧ	DRAWING No. GBUN4-5184/MWSS/14.1		
SURVEYED	A.M	DESIGNED	D.B	
DRAWN	F.S	CHECKED	E.T	
DATE	MAY. 2023	APPROVED	J.S	



Reinforcement to be one layer A142 mesh throughout

For Pipe fittings diameter and pressure ratings, see relevant drawing No.

1 1No. PVC Adaptor

2 1No. PVC flap valve

3 1No. Washout pipe

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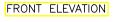


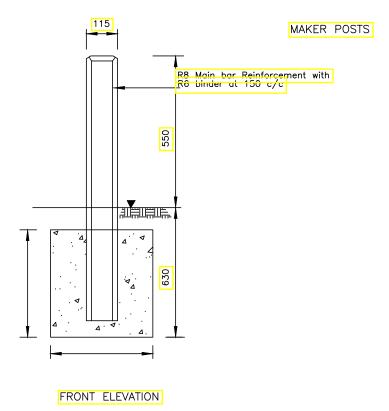
DRAWING TITLE MUWAYO PROJECT

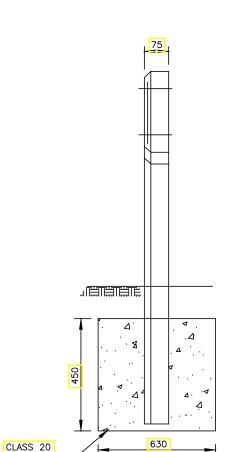
WASHOUT FLOW

SCALE #####	‡	DRAWING No GBUN4-5184/	•
SURVEYED	A.M	DESIGNED	D.B
DRAWN	F.S	CHECKED	E.T
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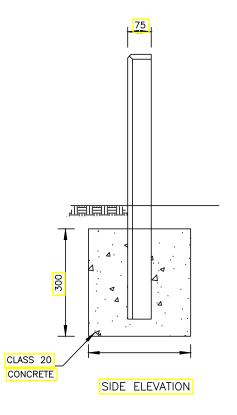
INDICATOR POSTS 225 R8 Main bar Reinforcement with R6 binder at 150 c/c 630







SIDE ELEVATION



CONCRETE

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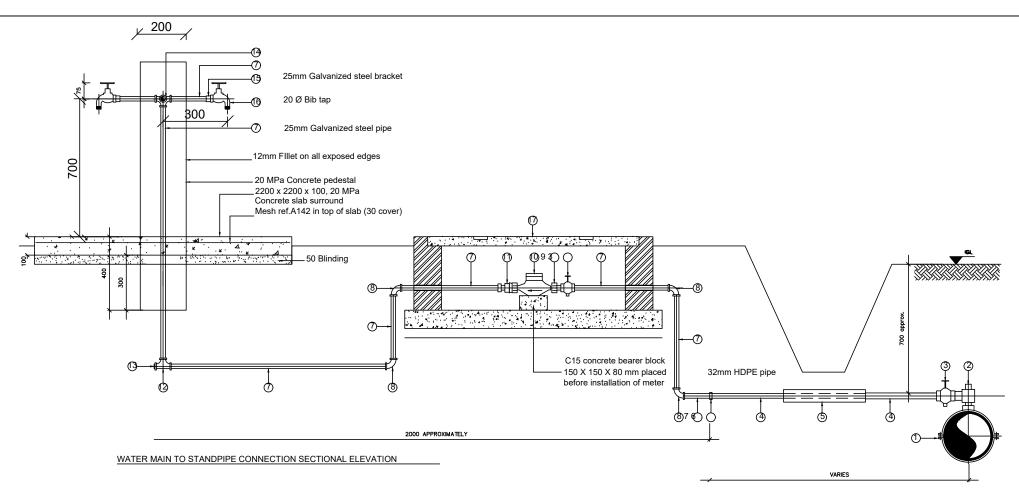




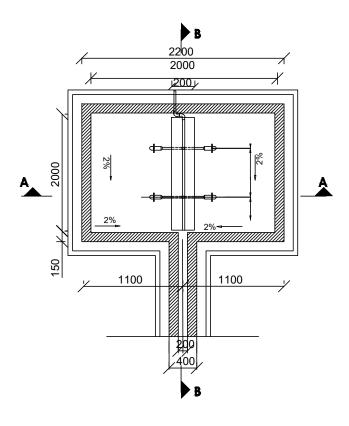
DRAWING TITLE MUWAYO PROJECT

MARK POST

SCALE #####	,	DRAWING No.		
JCALL ######	•	GBUN4-5184/MWSS/15.0		
SURVEYED	A.M	DESIGNED	D.B	
DRAWN	F.S	CHECKED	E.T	
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S	SCHEDULE OF PIPE FITTINGS				
ITEM NUMBER	DESCRIPTION	No. REQUIRED PER CONNECTION			
1	PVC SADDLE CLAMP	1			
2	P.E. OUTLET TYPE SWIVEL FERRULE	1			
3	STOP TAP	2			
4	32mm HDPE PIPE PIECE	1			
5	1.0m GMS SLEEVE	1			
6	32mm Ø HDPE/25mm ØGMS COUPLING	1			
7	25mm Ø GMS PIPE PIECE	15			
8	25mm Ø GMS 90° BEND	4			
9	MALE THREADED CONNECTOR	1			
10	25mm Ø WATER METER	1			
11	25mm Ø ADJUSTING COUPLING	1			
12	25mm Ø GMS EQUAL TEE	3			
13	25mm Ø PLUG	1			
14	GI cross tee	4			
15	25MM GALVANIZED STEEL BRACKET	6			
16	BIB TAP	2			
17	METER CHAMBER	1			
18	25mm Ø GMS TEE	1			



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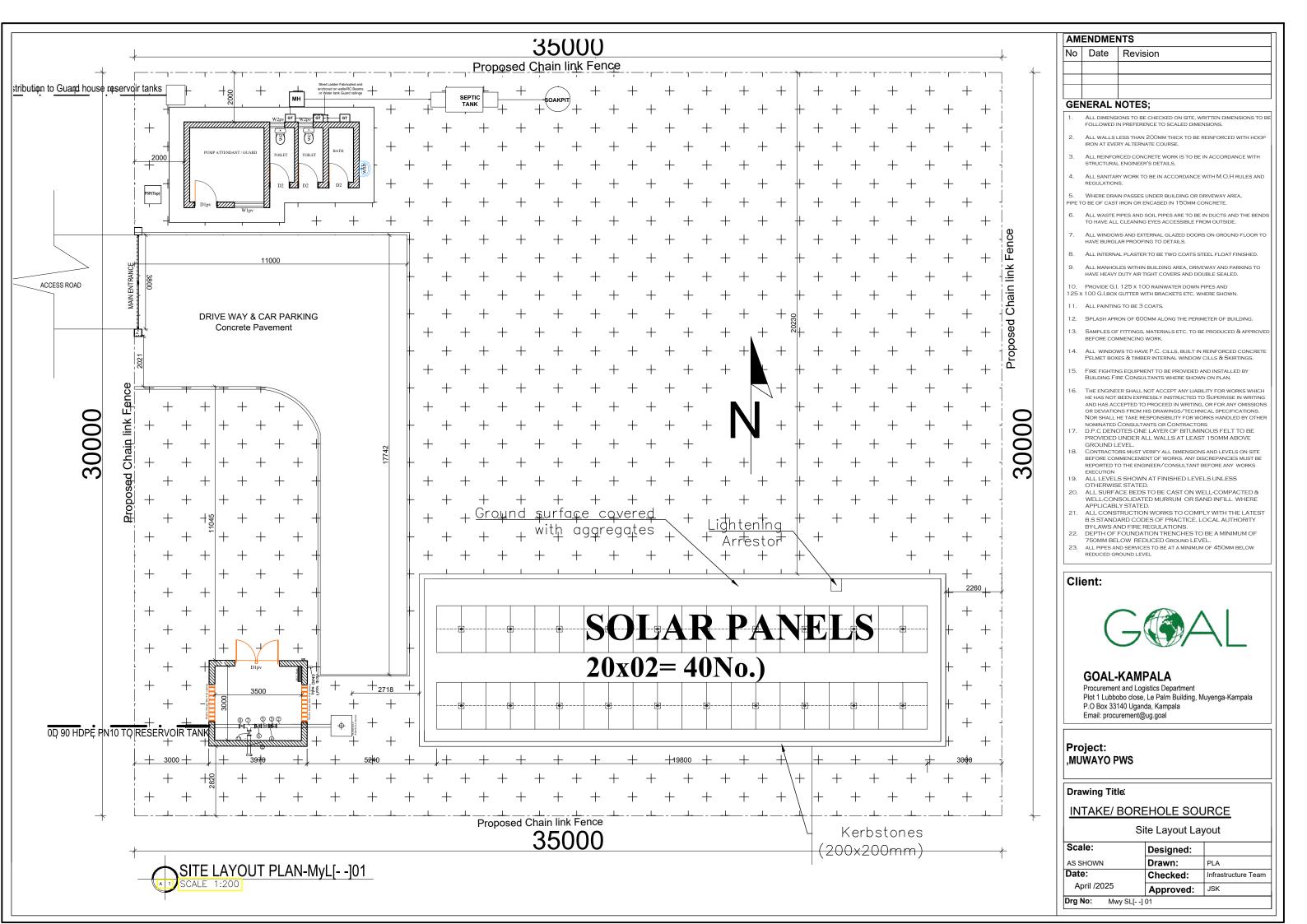


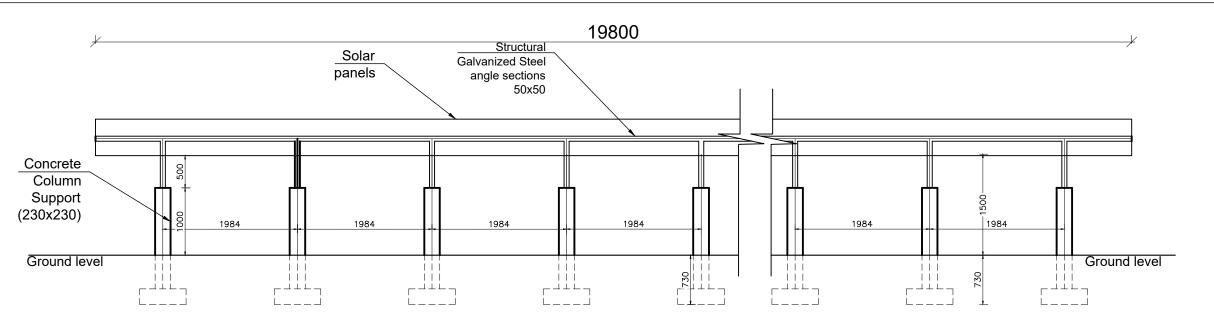
DRAWING TITLE MUWAYO PROJECT

PUBLIC STAND POINT (PSP)

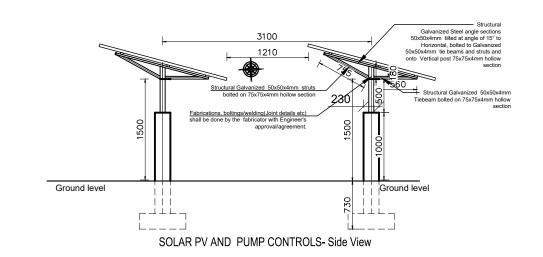
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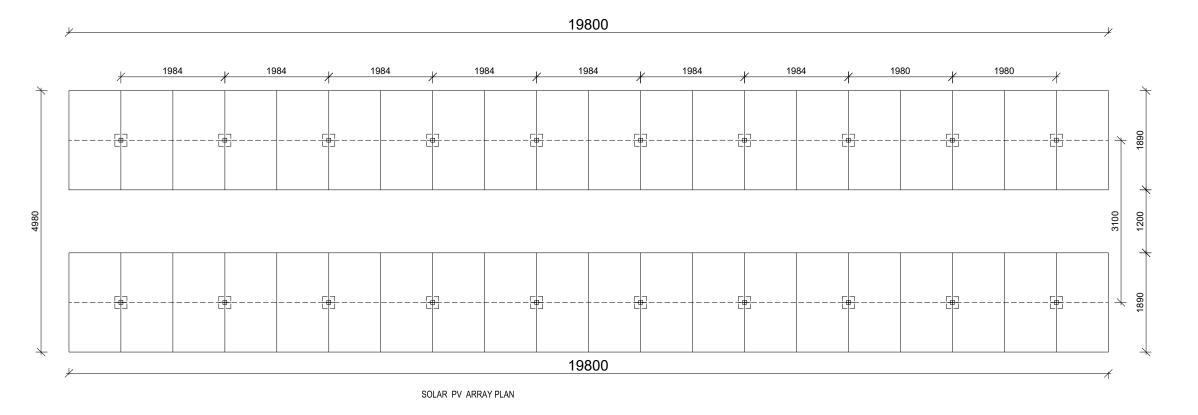
REVISION TO THE BOOK OF DRAWINGS VOLUME-2





SOLAR PV AND PUMP CONTROLS- Front View





AM	AMENDMENTS		
No	Date	Revision	

GENERAL NOTES;

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- 4. ALL SANITARY WORK TO BE IN ACCORDANCE WITH M.O.H RULES AND
- 5. WHERE DRAIN PASSES UNDER BUILDING OR DRIVEWAY AREA. PE TO BE OF CAST IRON OR ENCASED IN 150MM CONCRETE.
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- 8. ALL INTERNAL PLASTER TO BE TWO COATS STEEL FLOAT FINISHED.
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- 10. PROVIDE G.I. 125 x 100 RAINWATER DOWN PIPES AND 125 x 100 G.I.BOX GUTTER WITH BRACKETS ETC. WHERE SHOWN.
- 11. ALL PAINTING TO BE 3 COATS.
- 12. SPLASH APRON OF 600MM ALONG THE PERIMETER OF BUILDING.
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Client:



GOAL-KAMPALA

Procurement and Logistics Department Plot 1 Lubbobo close, Le Palm Building, Muyenga-Kampala P.O Box 33140 Uganda, Kampala Email: procurement@ug.goal

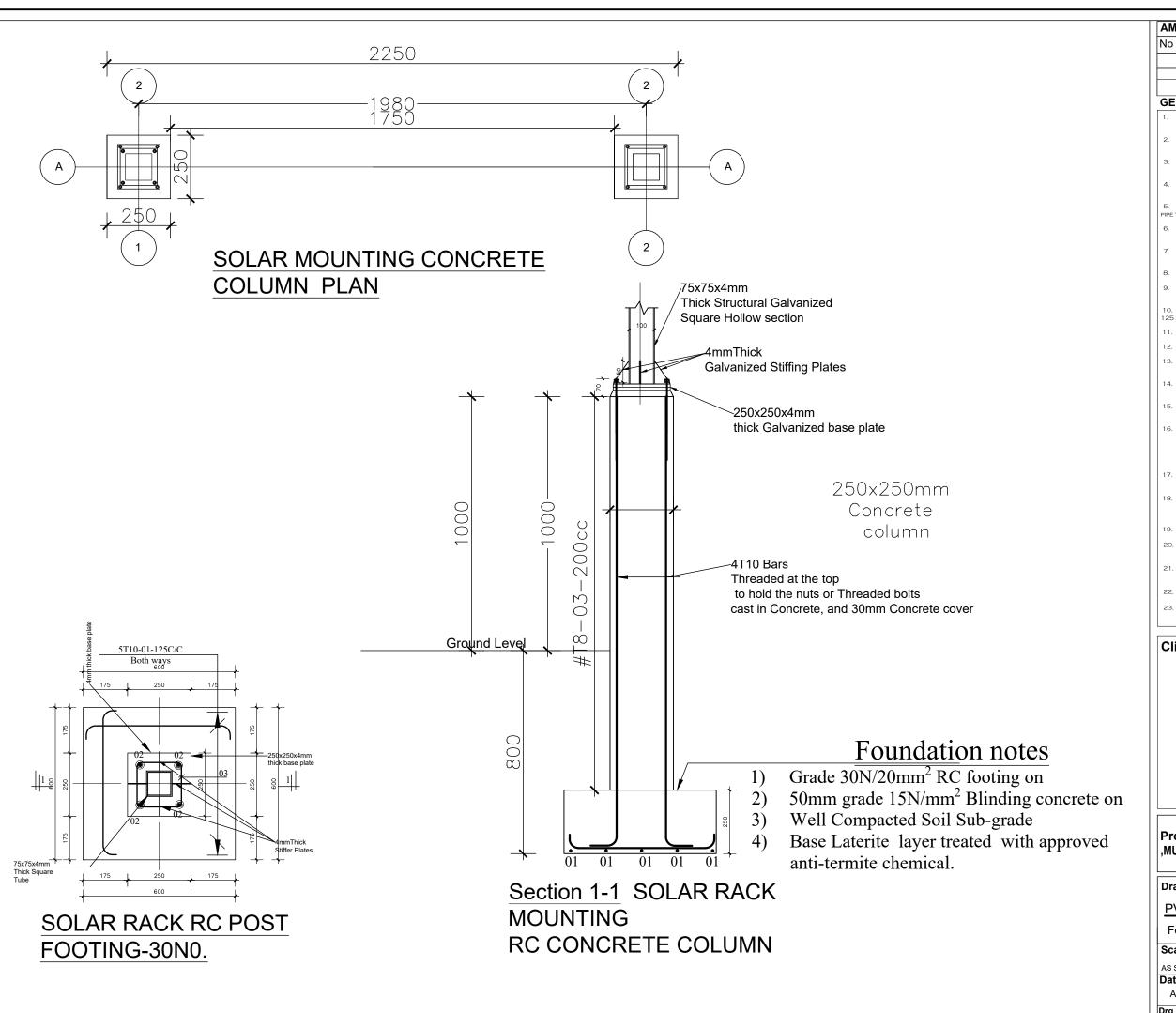
Project: ,MUWAYO PWS

Drawing Title:

PV ARRAY DRAWINGS

Elevation & Section

Scale:	Designed:		
AS SHOWN	Drawn:	PLA	
Date:	Checked:	Infrastructure Team	
April /2025	Approved:	JSK	
Drg No: Mwy Pv[] 02			



A	AMENDMENTS		
No	o Date	Revision	

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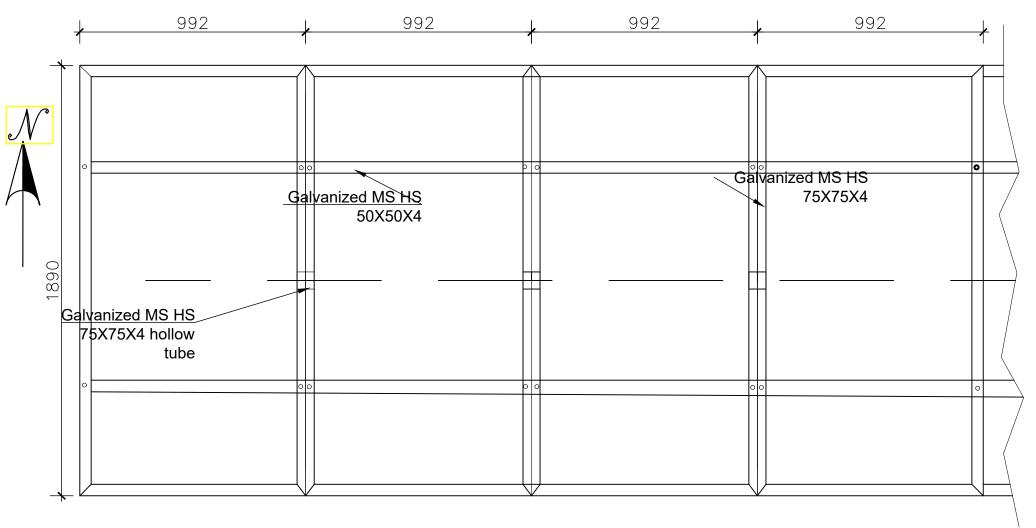
Project: ,MUWAYO PWS

Drawing Title

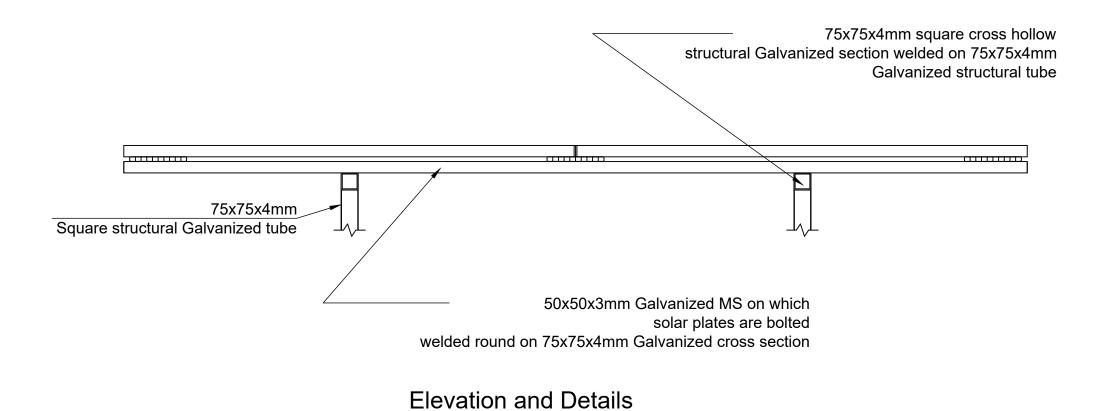
PV ARRAY DRAWINGS

Footing Details

Scale:		Designed:	
	AS SHOWN	Drawn:	PLA
	Date:	Checked:	Infrastructure Team
	April /2025	Approved:	JSK
	Drg No: Mwy Pv[]	03	



Plan of Solar Mounting Structure



	AM	AMENDMENTS		
	No Date		Revision	
1				

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GOAL-KAMPALA

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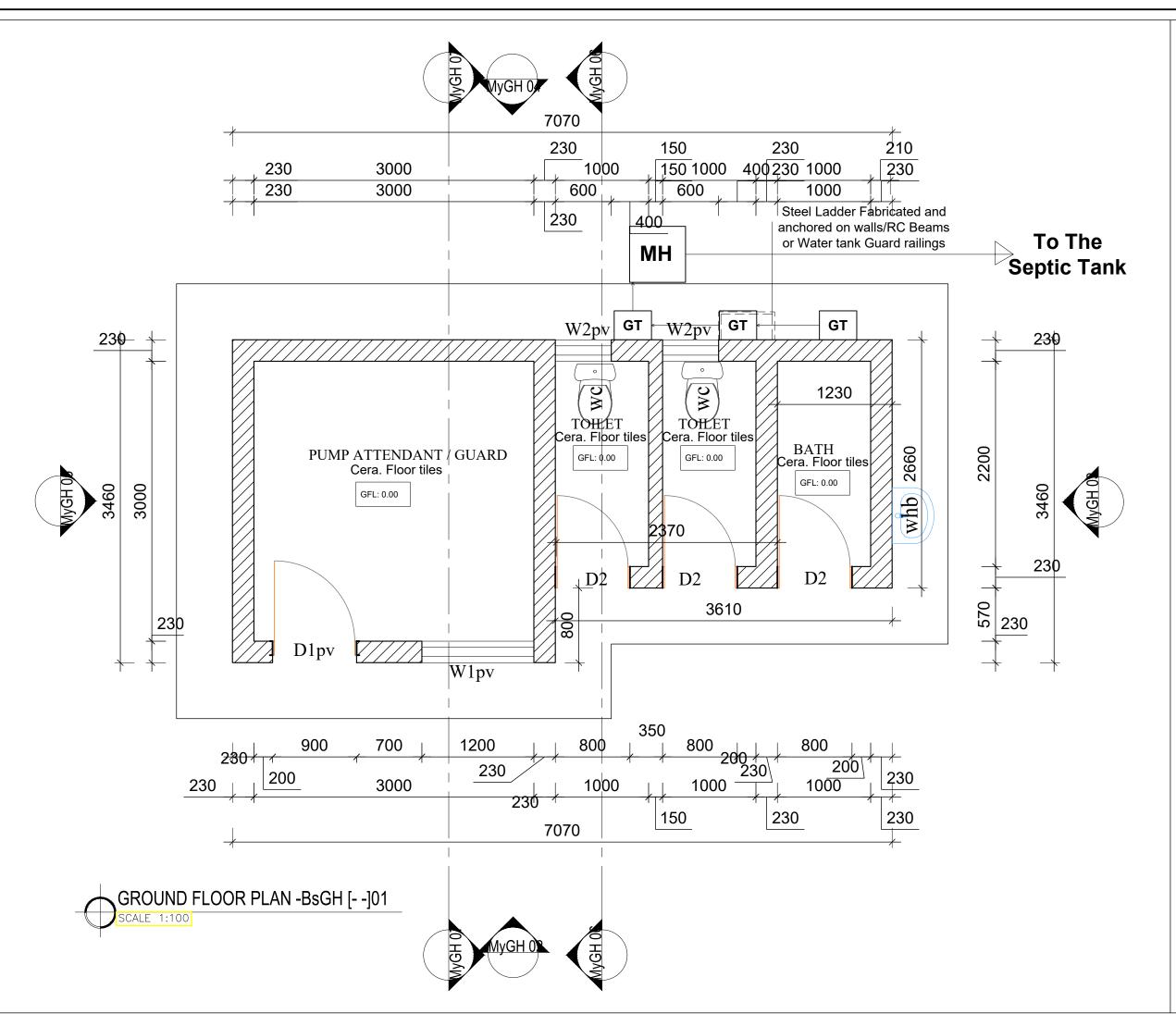
Project: ,MUWAYO PWS

Drawing Title:

PV ARRAY DRAWINGS

Mounting Plan Details

Scale:	Designed:	
AS SHOWN	Drawn:	PLA
	Checked:	Infrastructure Team
April /2025	Approved:	JSK
Drg No: Mwy Pv[]	04	



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No Date Revision			

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GOAL-KAMPALA

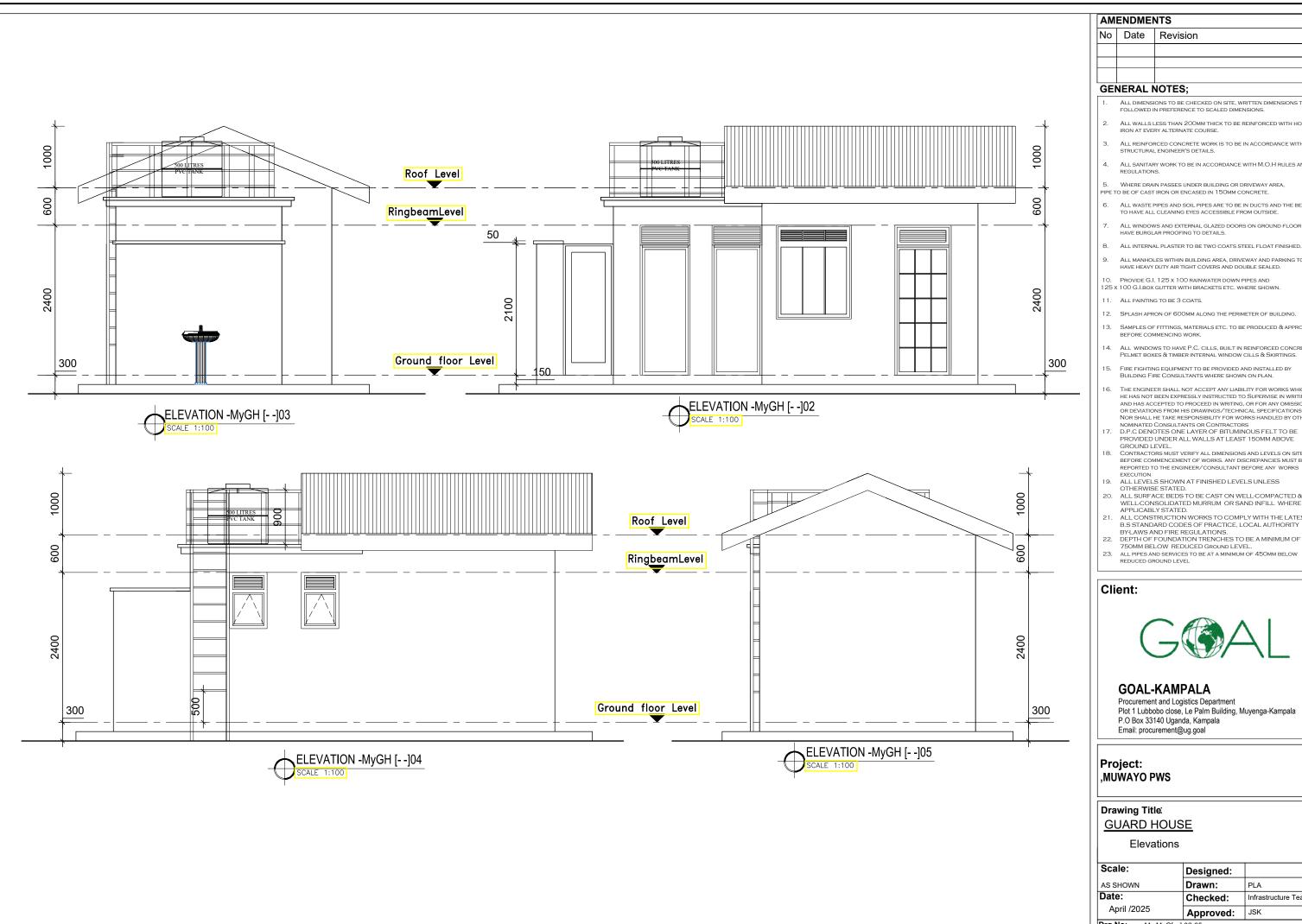
Procurement and Logistics Department Plot 1 Lubbobo close, Le Palm Building, Muyenga-Kampala P.O Box 33140 Uganda, Kampala Email: procurement@ug.goal

Project: ,MUWAYO PWS

Drawing Title: **GUARD HOUSE**

Floor Plan

Scale:	Designed:	
AS SHOWN	Drawn:	PLA
Date:	Checked:	Infrastructure Team
April /2025	Approved:	JSK
Drg No: My MyG	[] 01	•



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GOAL-KAMPALA

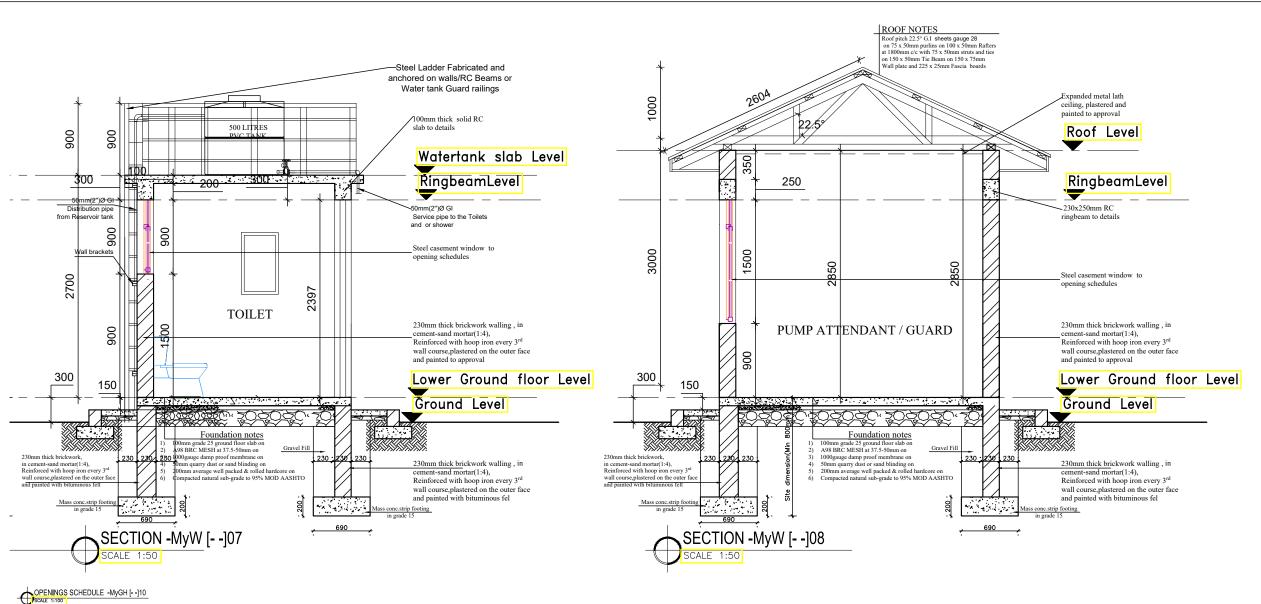
Procurement and Logistics Department Plot 1 Lubbobo close, Le Palm Building, Muyenga-Kampala P.O Box 33140 Uganda, Kampala Email: procurement@ug.goal

Project: ,MUWAYO PWS

Drawing Title: **GUARD HOUSE**

Elevations

Scale:	Designed:	
AS SHOWN	Drawn:	PLA
Date:	Checked:	Infrastructure Team
April /2025	Approved:	JSK
Drg No: My MyG[]	02-05	



					
\ 	WINDOW SCHEDULES				
ELEVATION F.F.L	1200 600 600 7400 7400 7400 7400 7400 7400	2400 + 9000 +			
PLAN SYMBOL	WIpv	W2pv			
DESCRIPTION	W1pv Steel Sideswing window with 20x40x1.5mm SHS shutters with 20x3mm flat Section bindings on 125 x1.5mm W20 section (Window frame)	W2pv Steel tophung window with 20x40x1.5mm SHS shutters with 20x3mm flat Section bindings on 125 x1.5mm W20 section (Window frame)			
LOCATION	Pump Guard room	Eco-san Latrines			
QUANTITY 01No.		02 No.			

	DOOR SCHEDULES		
ELEVATION	Grow_there since Section Sectio	2100	1000 1000 1000 1000 1000 1000 1000 100
PLAN SYMBOL	D1	D2.	D2.
DESCRIPTION	Standard Single leaf steel casement door with a 32 x 4mm angle bar onto door frame bottom to work as tile stopper at exit door openings	Standard Single leaf Timber flush door with a 32 x 4mm Steel angle bar onto door frame bottom to work as tile stopper at exit door openings	Standard Single leaf steel casement door with a 32 x 4mm angle bar onto door frame bottom to work as tile stopper at exit door openings
LOCATION	Pump Guard room	Toilets	Bathroom
QUANTITY	01No.	02No.	01No.

AMENDMENTS		
No	Date	Revision

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GOAL-KAMPALA

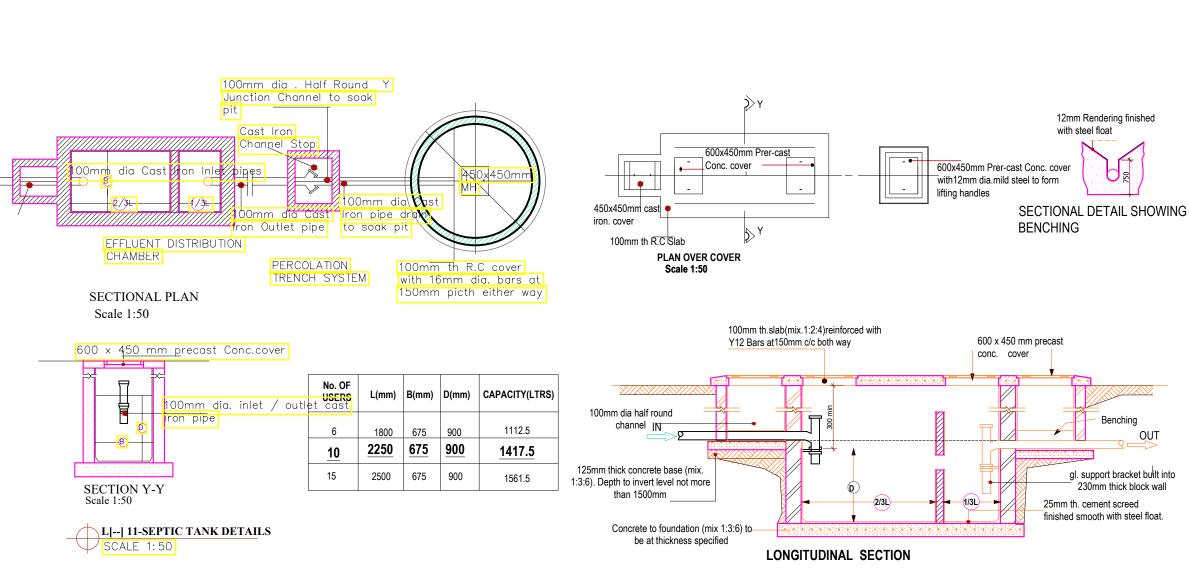
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Project: MUWAYO PWS

Drawing Title: **GUARD HOUSE**

Sections and Openings

Scale:	Designed:	
AS SHOWN	Drawn:	PLA
Date:	Checked:	Infrastructure Team
April /2025	Approved:	JSK
Drg No: My MyG[]	02-05	



SOAKPIT SYSTEM

AMENDMENTS			
No	Date	Revision	

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- 16. THE ENGINEER SHALL NOT ACCEPT ANY LIABILITY FOR WORKS WHICH HE HAS NOT BEEN EXPRESSLY INSTRUCTED TO SUPERVISE IN WRITING AND HAS ACCEPTED TO PROCEED IN WRITING, OR FOR ANY OMISSIONS OR DEVIATIONS FROM HIS DRAWINGS/TECHNICAL SPECIFICATIONS. NOR SHALL HE TAKE RESPONSIBILITY FOR WORKS HANDLED BY OTHER
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 17. D.P.C DENOTES ONE LAYER OF BITUMINOUS FELT TO BE PROVIDED UNDER ALL WALLS AT LEAST 150MM ABOVE
- GROUND LEVEL.

 18. CONTRACTORS MUST VERIFY ALL DIMENSIONS AND LEVELS ON SITE
 BEFORE COMMENCEMENT OF WORKS, ANY DISCREPANCIES MUST BE
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- EXECUTION

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 ALL SURFACE BEDS TO BE CAST ON WELL-COMPACTED & WELL-CONSOLIDATED MURRUM OR SAND INFILL WHERE APPLICABLY STATED.

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 22. DEPTH OF FOUNDATION TRENCHES TO BE A MINIMUM OF
 750MM BELOW REDUCED GROUND LEVEL.
- ALL PIPES AND SERVICES TO BE AT A MINIMUM OF 450MM BELOW REDUCED GROUND LEVEL

Client:



GOAL-KAMPALA

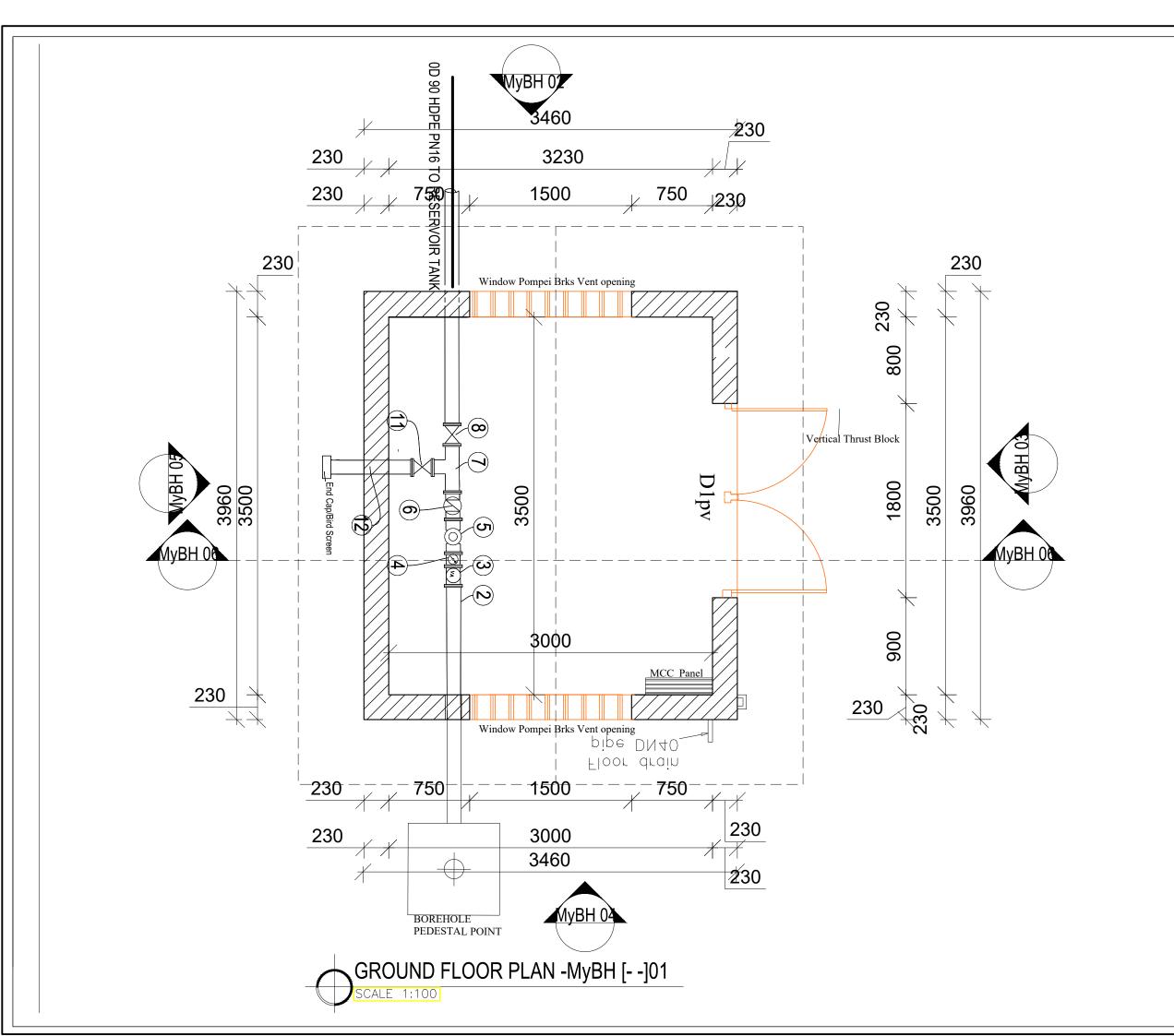
Procurement and Logistics Department Plot 1 Lubbobo close, Le Palm Building, Muyenga-Kampala P.O Box 33140 Uganda, Kampala Email: procurement@ug.goal

Project: .MUWAYO PWS

Drawing Title: **GUARD HOUSE**

Septic Tank details

Scale:	Designed:	
AS SHOWN	Drawn:	PLA
Date:	Checked:	Infrastructure Team
April /2025	Approved:	JSK
Drg No: MySpt[]		



AMENDMENTS		
No	Date	Revision

- ALL DIMENSIONS TO BE CHECKED ON SITE, WRITTEN DIMENSIONS TO B FOLLOWED IN PREFERENCE TO SCALED DIMENSIONS.
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- ALL MANHOLES WITHIN BUILDING AREA, DRIVEWAY AND PARKING TO HAVE HEAVY DUTY AIR TIGHT COVERS AND DOUBLE SEALED.
- 125 x 100 G.I.BOX GUTTER WITH BRACKETS ETC. WHERE SHOWN.
- 11. ALL PAINTING TO BE 3 COATS.
- 12. SPLASH APRON OF 600MM ALONG THE PERIMETER OF BUILDING
- SAMPLES OF FITTINGS, MATERIALS ETC. TO BE PRODUCED & AP
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Client:



GOAL-KAMPALA

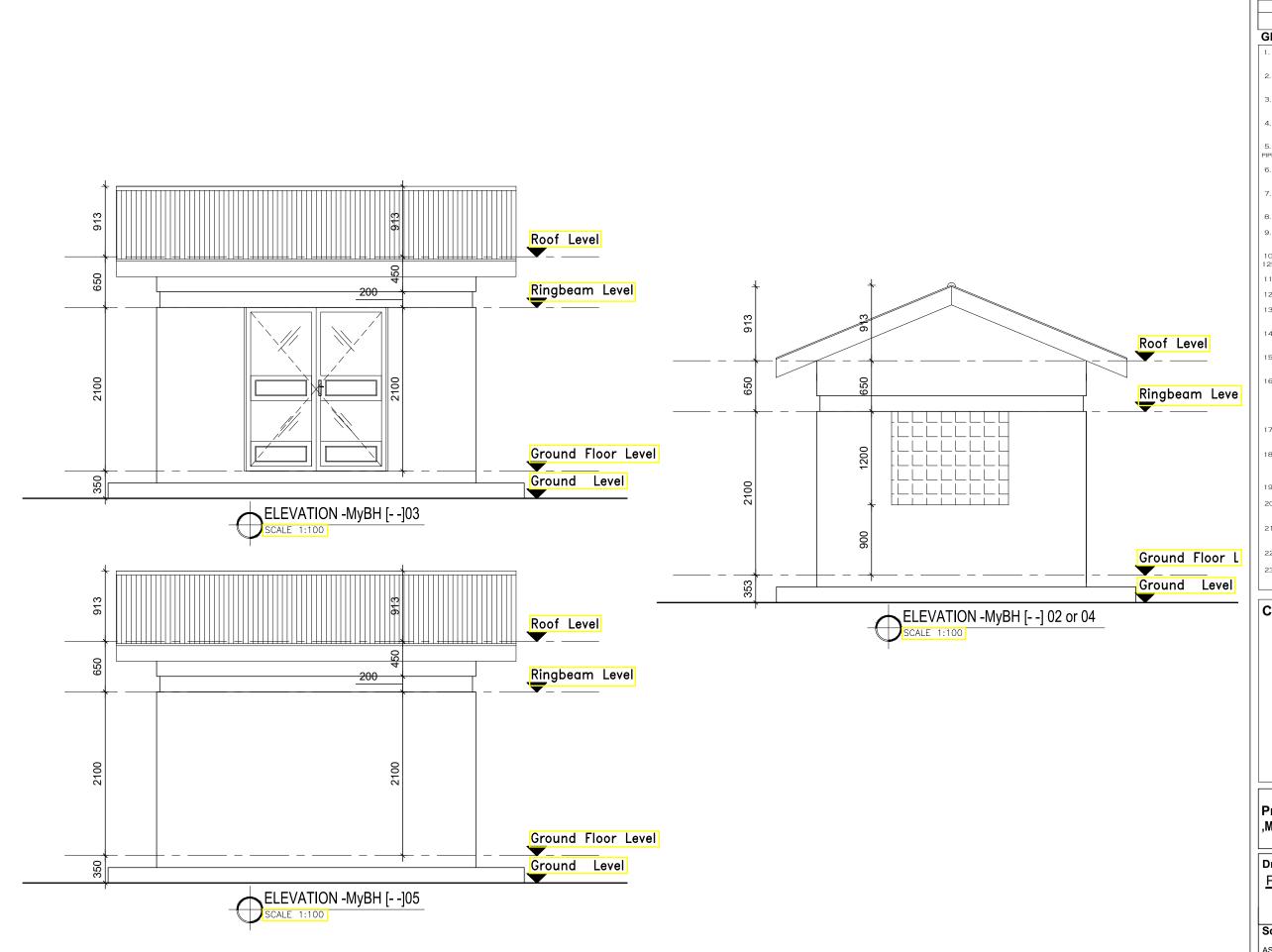
Procurement and Logistics Department Plot 1 Lubbobo close, Le Palm Building, Muyenga-Kampala P.O Box 33140 Uganda, Kampala Email: procurement@ug.goal

Project: ,MUWAYO PWS

Drawing Title: PUMP HOUSE

Ground Floor Plan

Scale: Designed: AS SHOWN Drawn: Date: Checked: Infrastructure Team April /2025 Approved: | JSK **Drg No:** MyBH[- -] 01



AM	AMENDMENTS		
No	Date	Revision	

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Client:



GOAL-KAMPALA

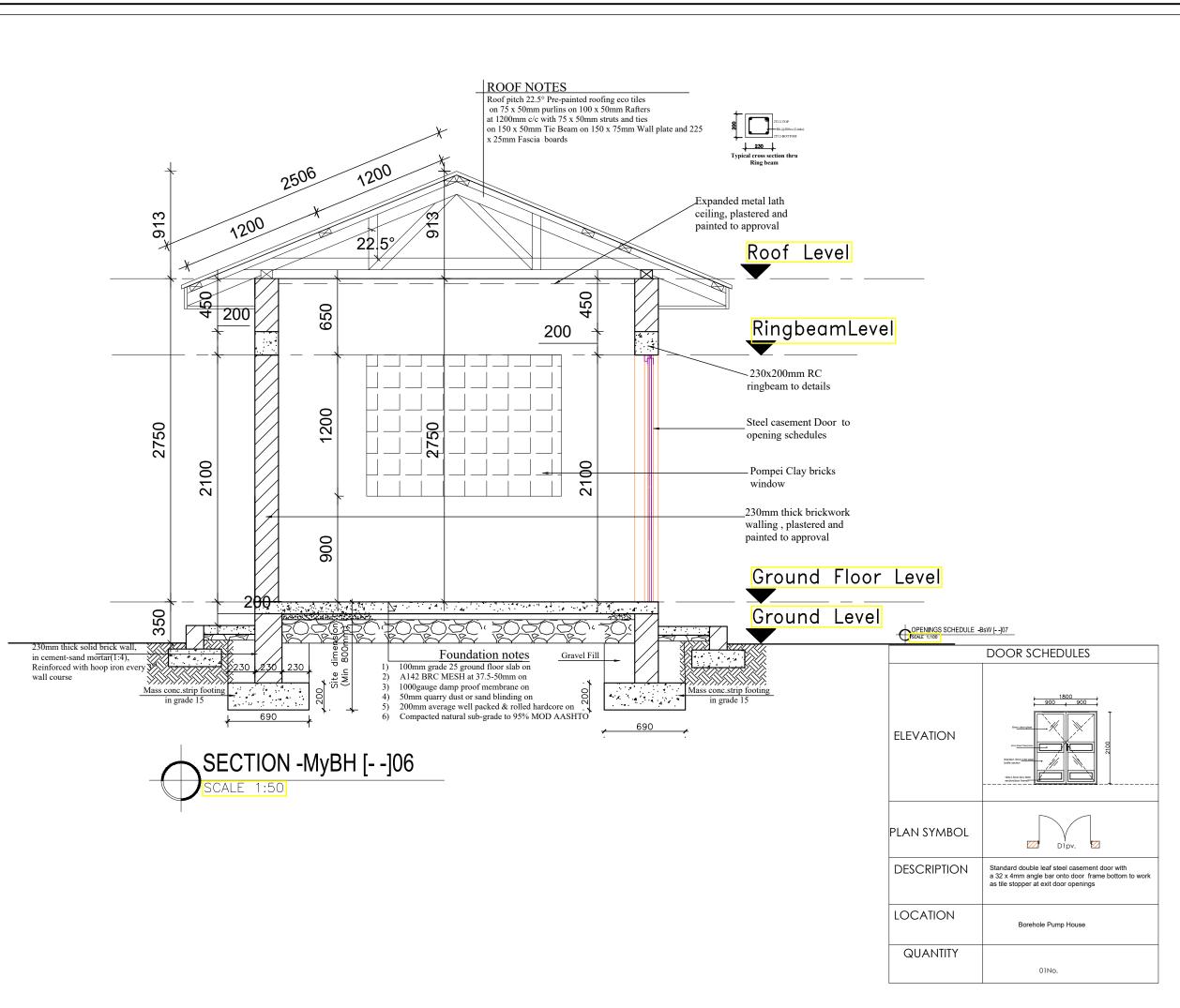
Procurement and Logistics Department Plot 1 Lubbobo close, Le Palm Building, Muyenga-Kampala P.O Box 33140 Uganda, Kampala Email: procurement@ug.goal

Project: ,MUWAYO PWS

Drawing Title PUMP HOUSE

Elevations

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Scale:	Designed:		
AS SHOWN	Drawn:	PLA	
Date:	Checked:	Infrastructure Team	
April /2025	Approved:	JSK	
Drg No: MyBH[] 02	20-05		



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GOAL-KAMPALA

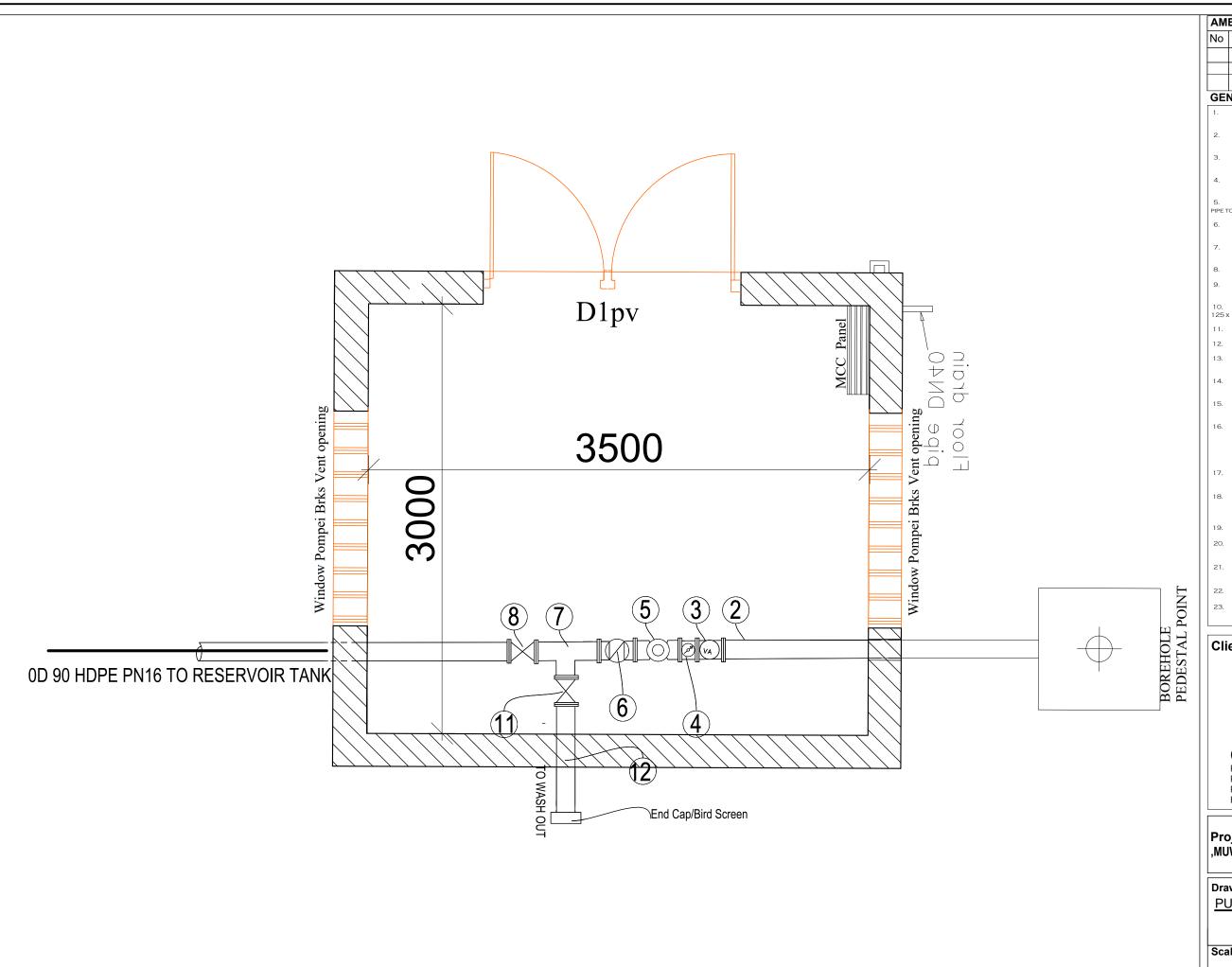
Procurement and Logistics Department Plot 1 Lubbobo close, Le Palm Building, Muyenga-Kampala P.O Box 33140 Uganda, Kampala Email: procurement@ug.goal

Project: ,MUWAYO PWS

Drawing Title: PUMP HOUSE

Section

Scale:		
Scale.	Designed:	
AS SHOWN	Drawn:	PLA
Date:	Checked:	Infrastructure Team
April /2025	Approved:	JSK
Drg No: MyBH[] 00	6	



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Client:



GOAL-KAMPALA

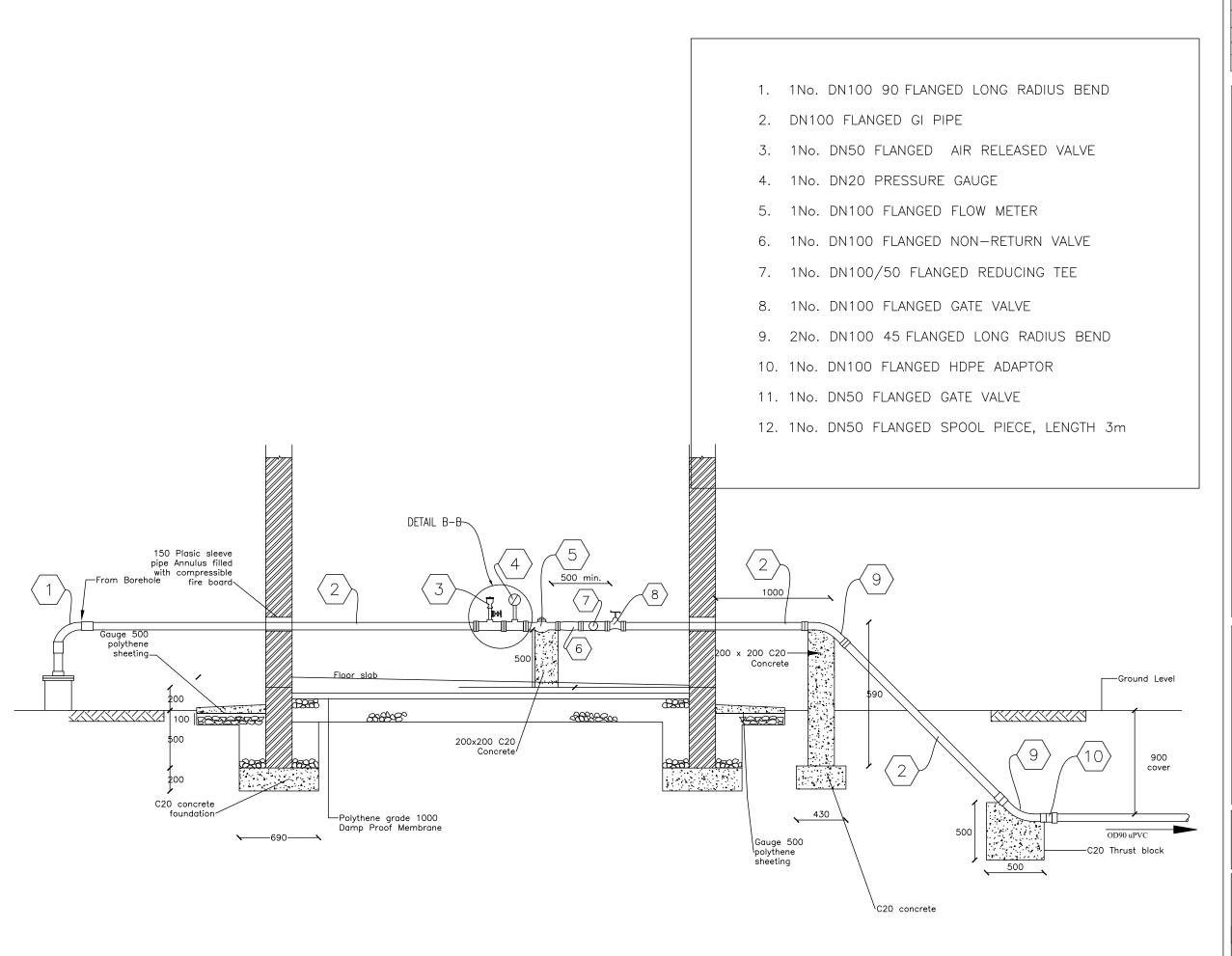
Procurement and Logistics Department
Plot 1 Lubbobo close, Le Palm Building, Muyenga-Kampala P.O Box 33140 Uganda, Kampala Email: procurement@ug.goal

Project: ,MUWAYO PWS

Drawing Title PUMP HOUSE

Appurtenaces Layout

Scale:	Designed:	
AS SHOWN	Drawn:	PLA
Date:	Checked:	Infrastructure Team
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GOAL-KAMPALA

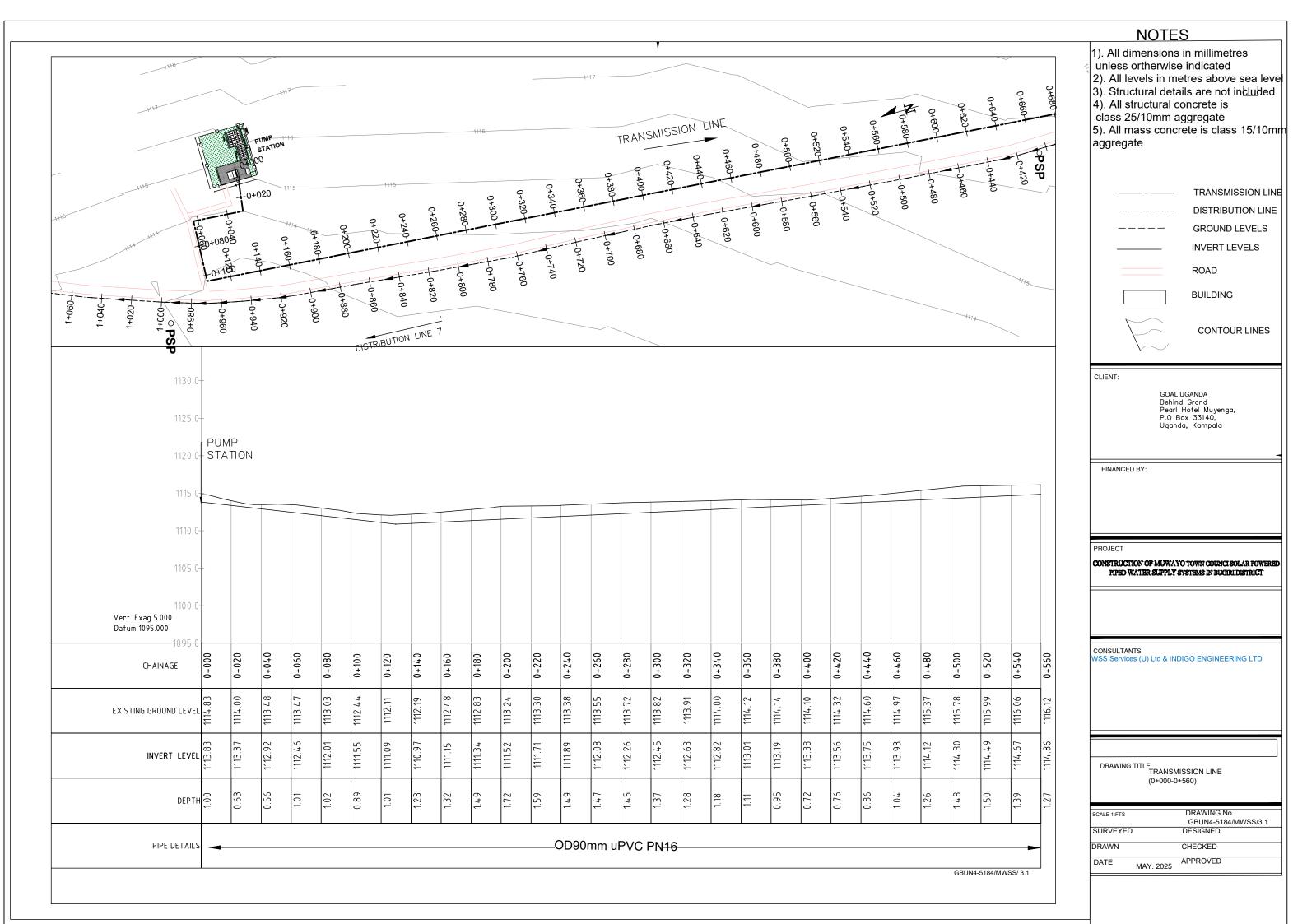
Procurement and Logistics Department Plot 1 Lubbobo close, Le Palm Building, Muyenga-Kampala P.O Box 33140 Uganda, Kampala Email: procurement@ug.goal

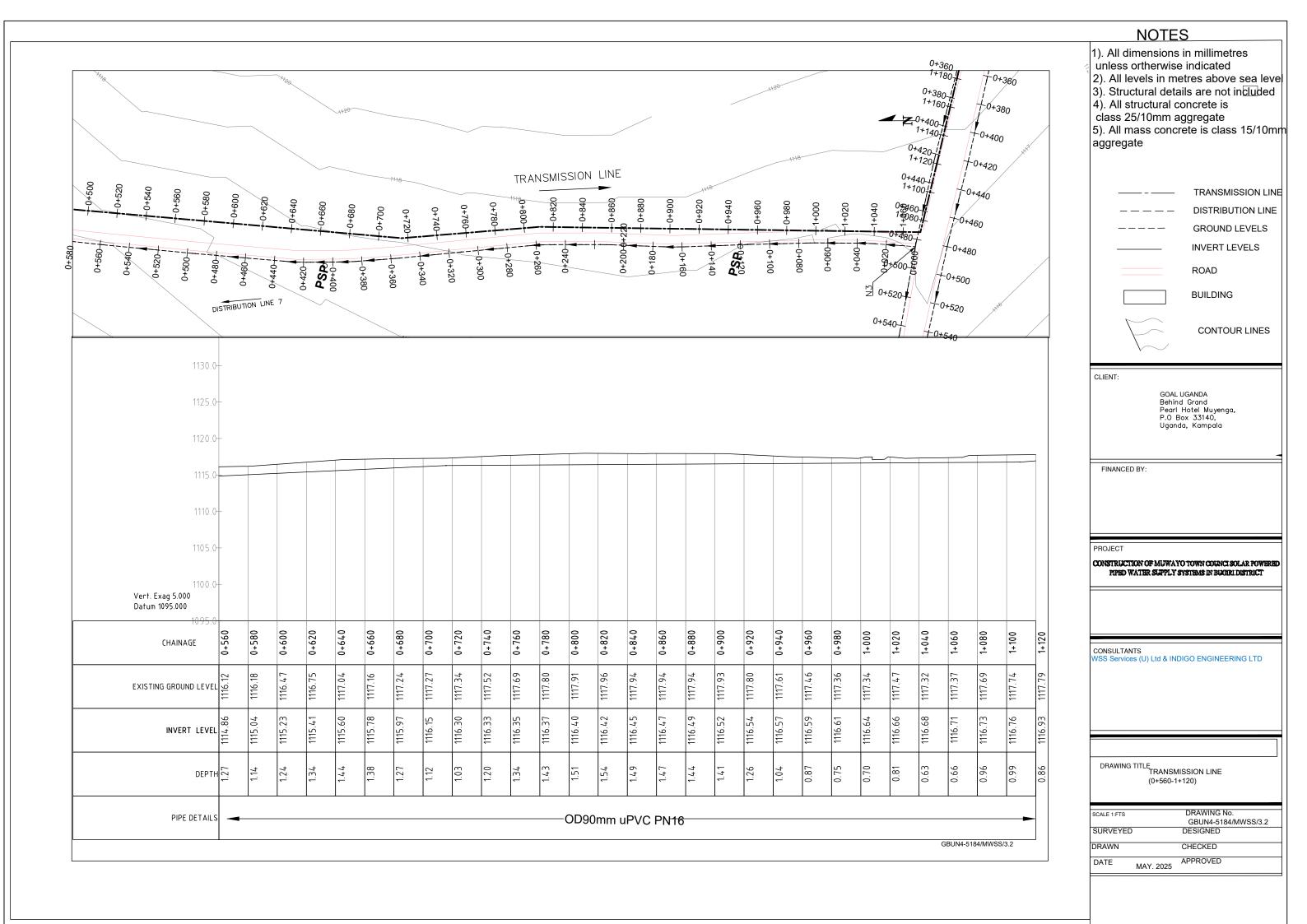
Project: ,MUWAYO PWS

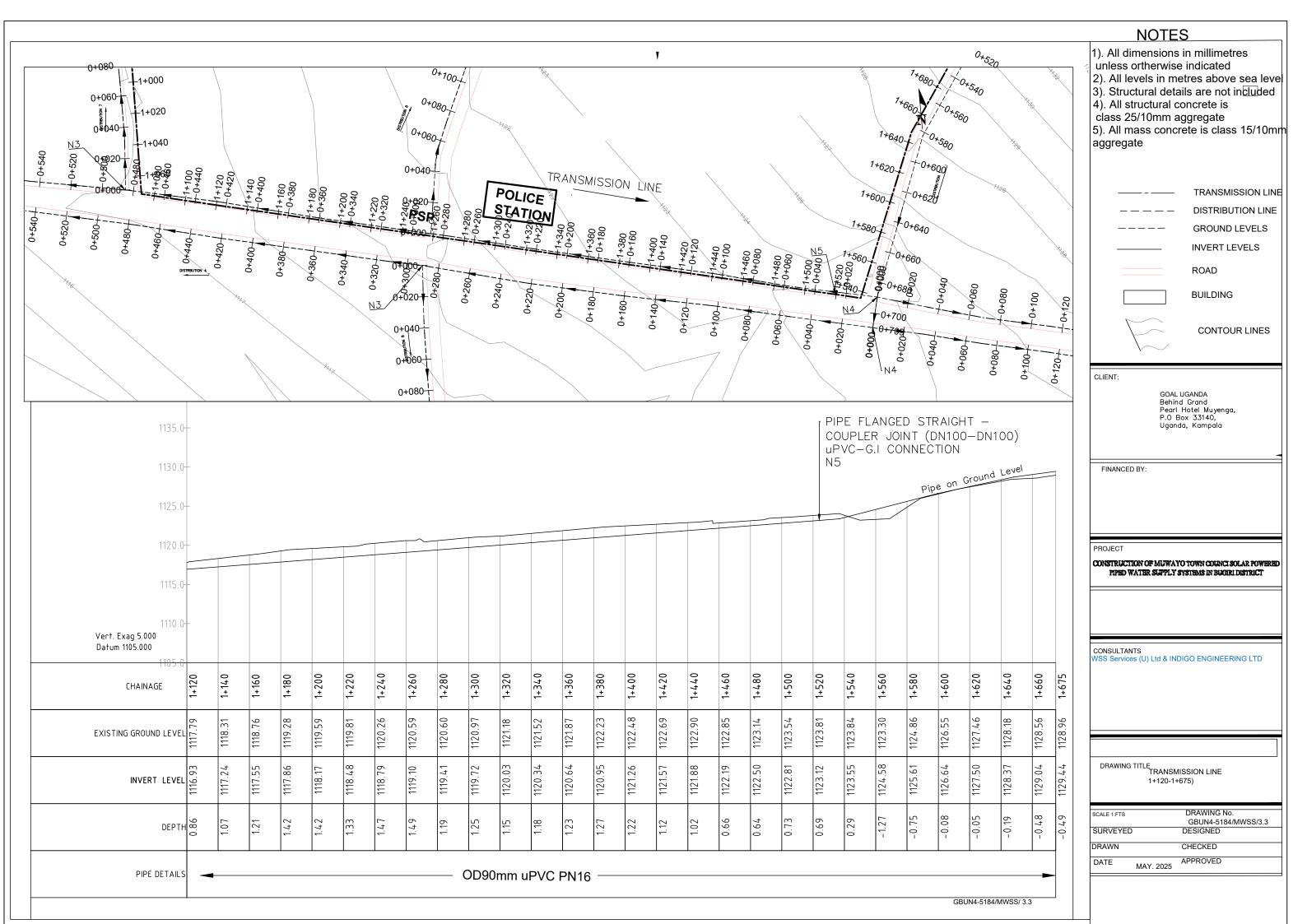
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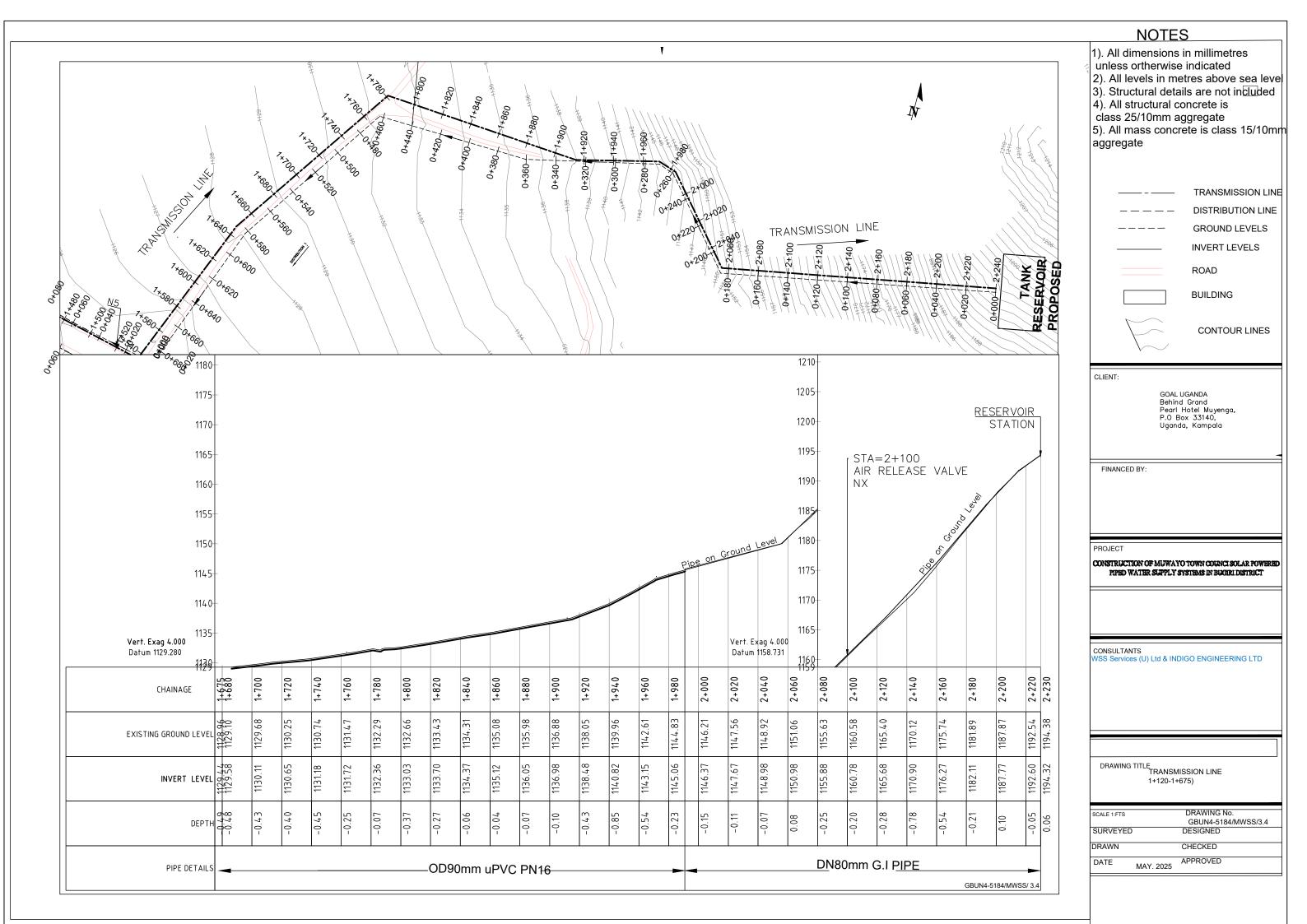
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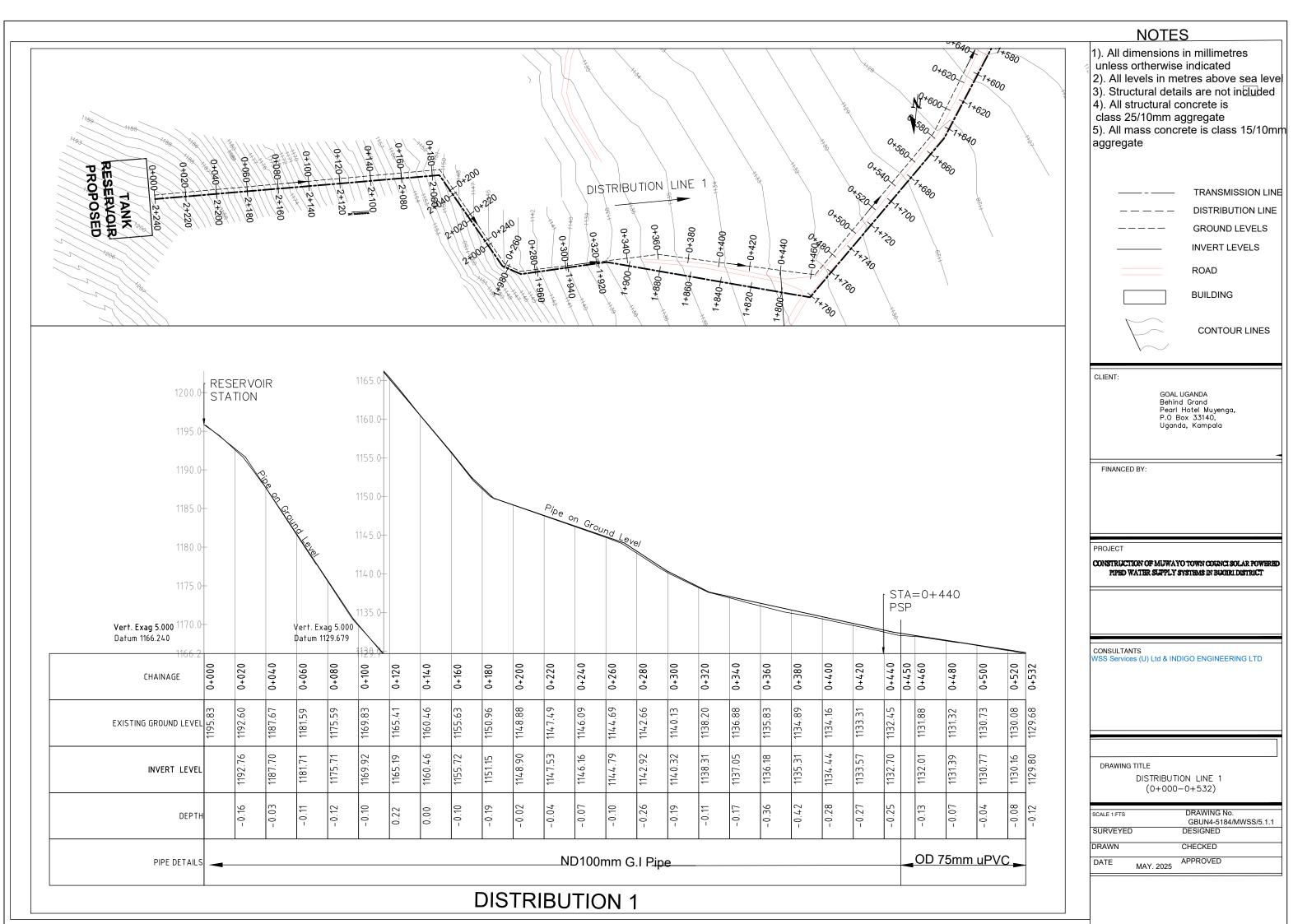
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	Date:	Checked:	Infrastructure Team
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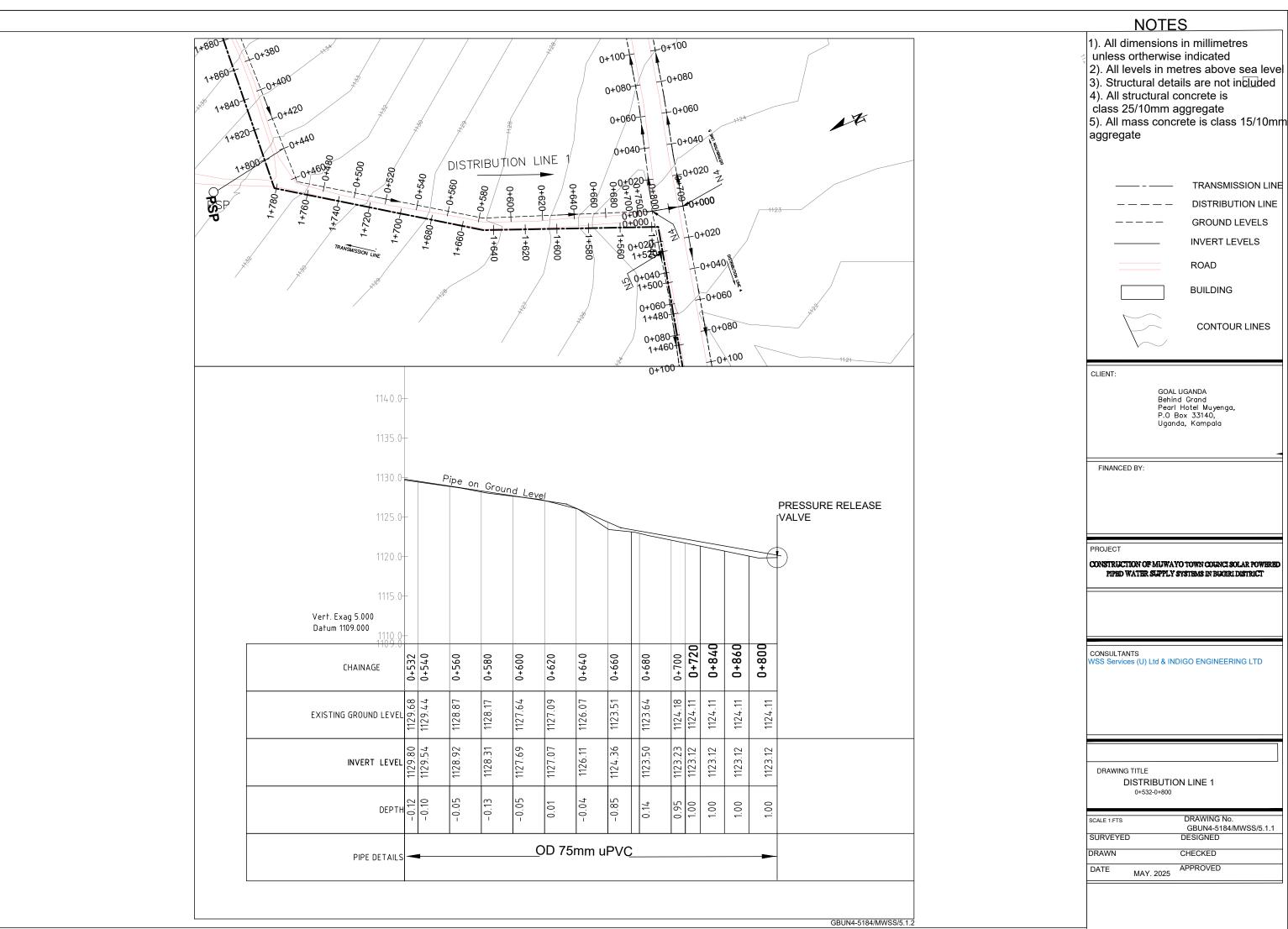




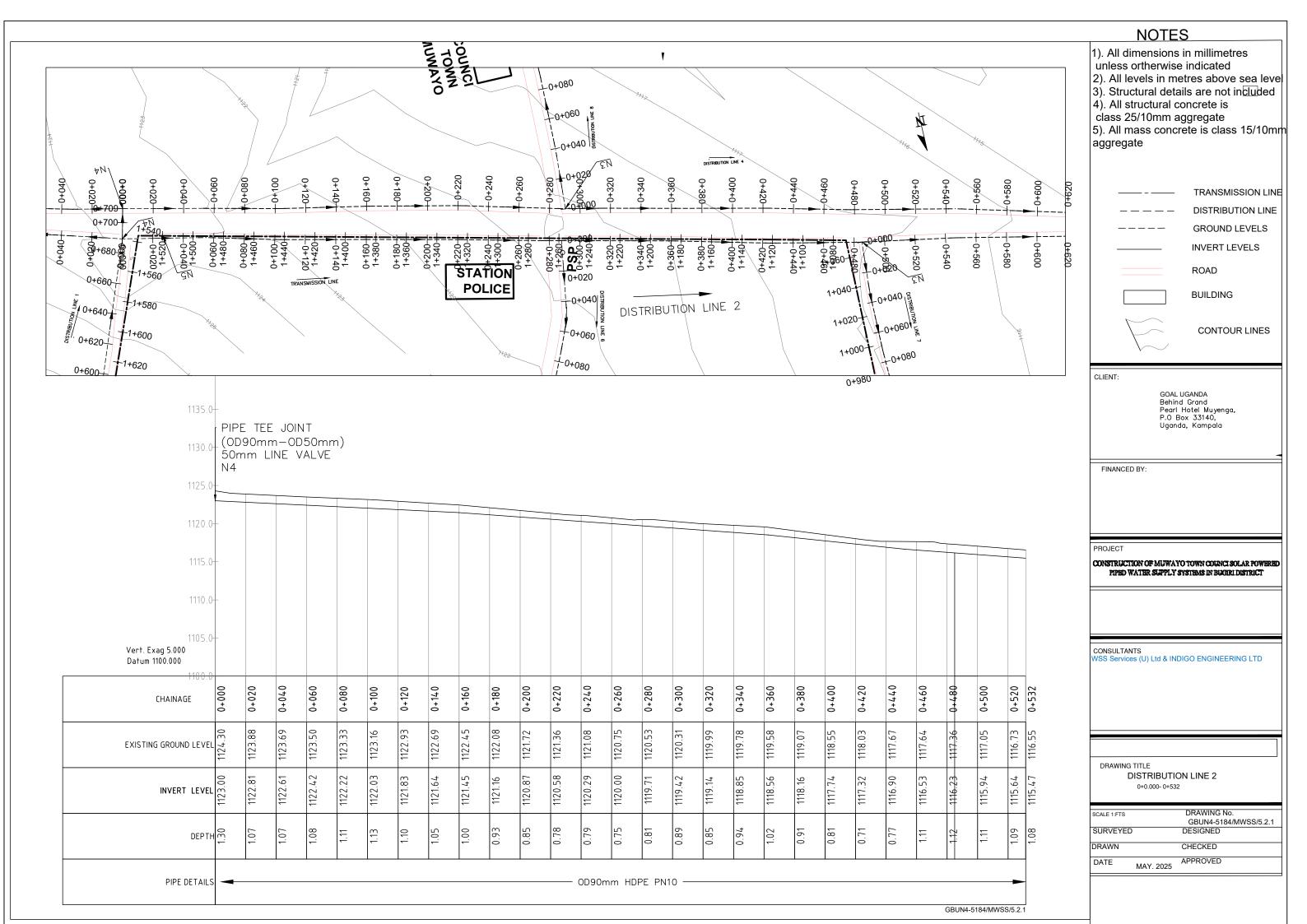


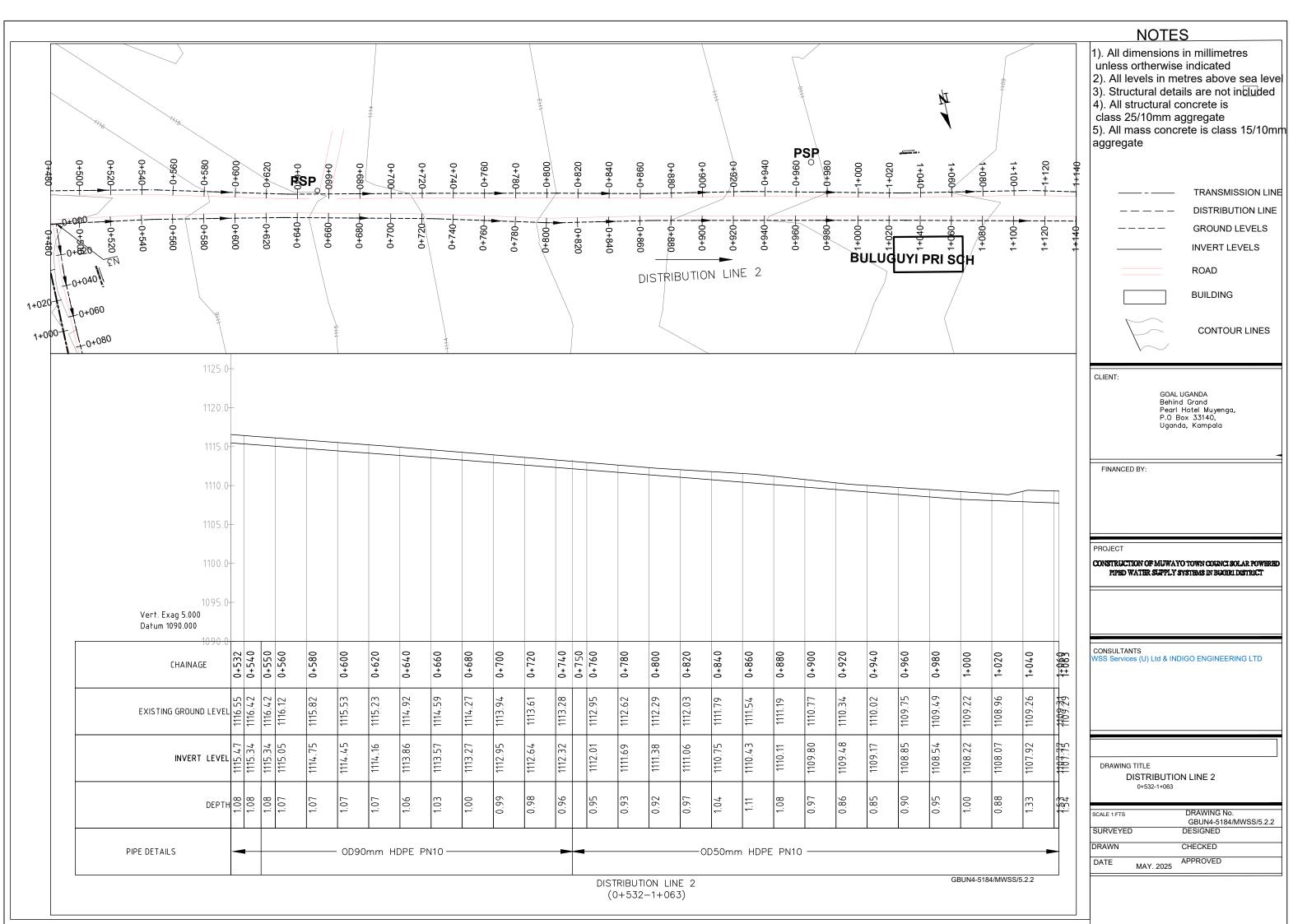


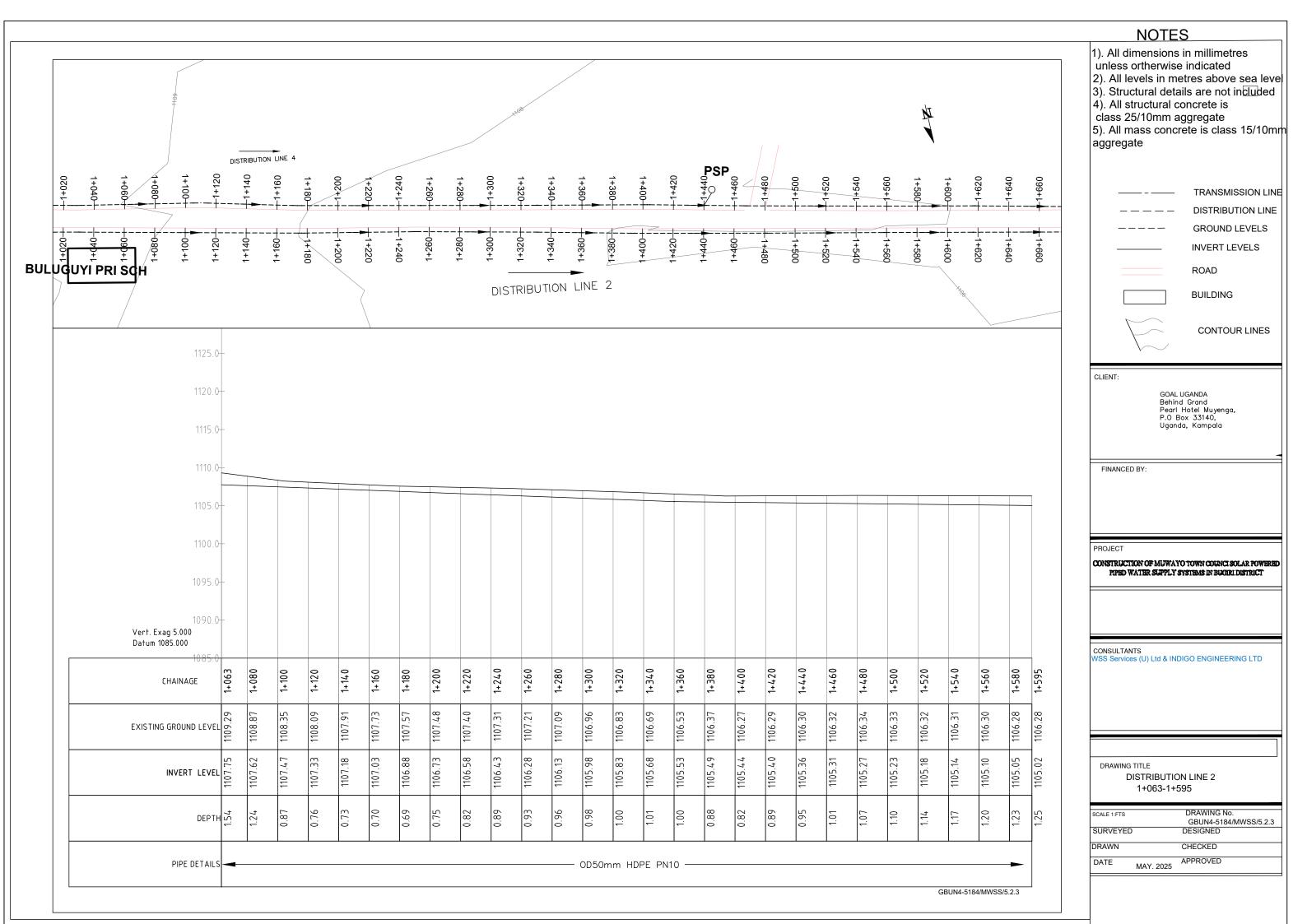


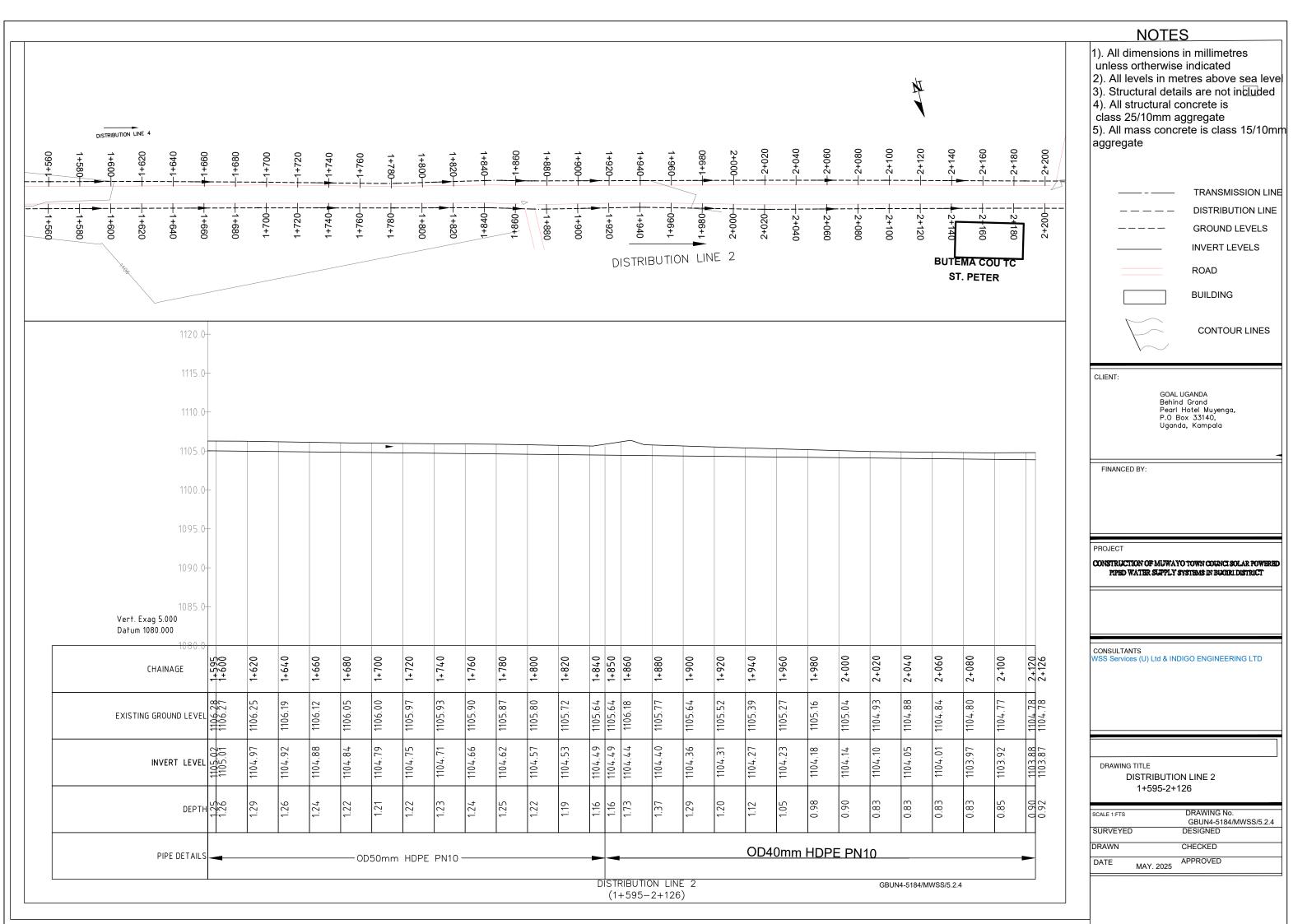


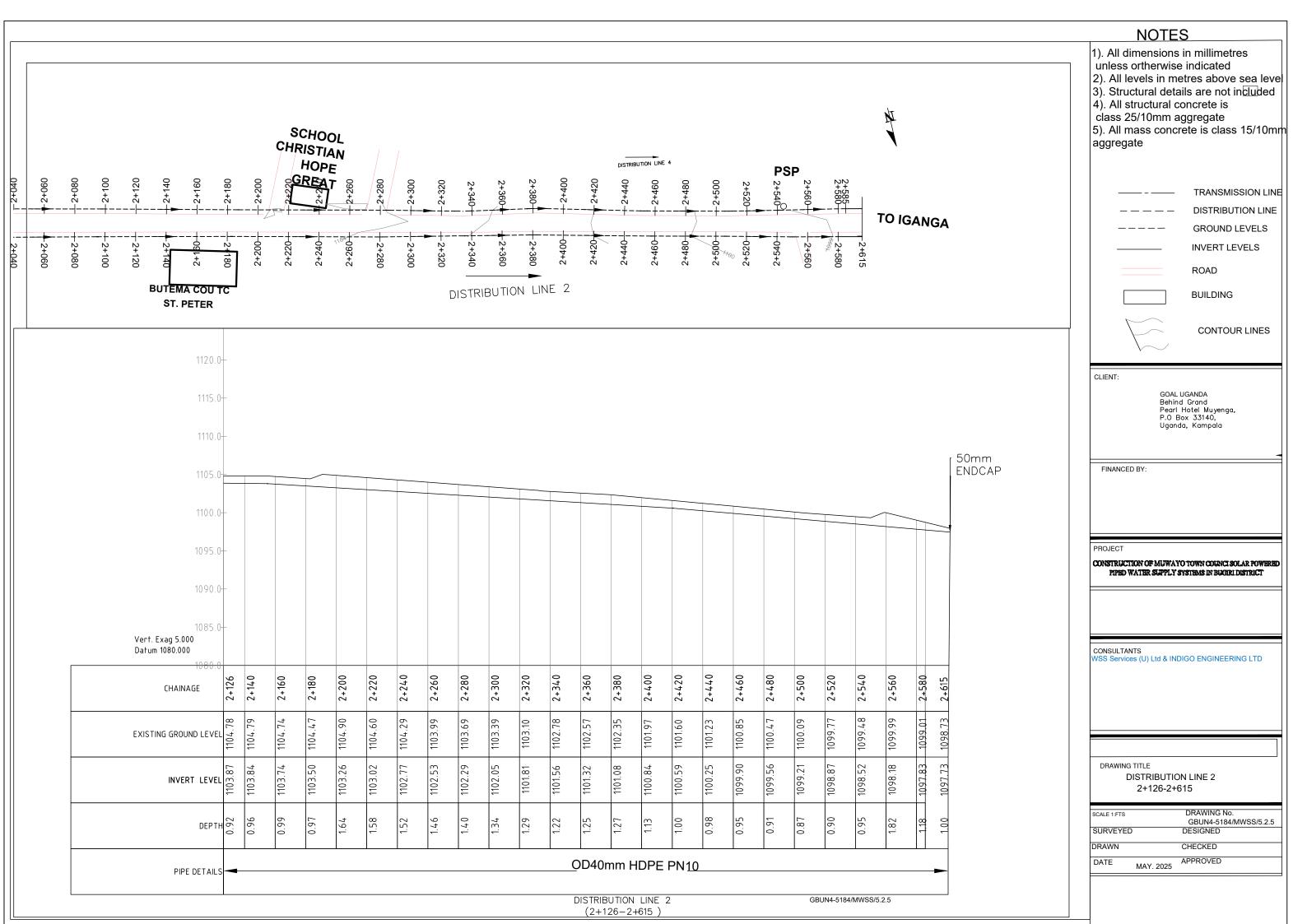
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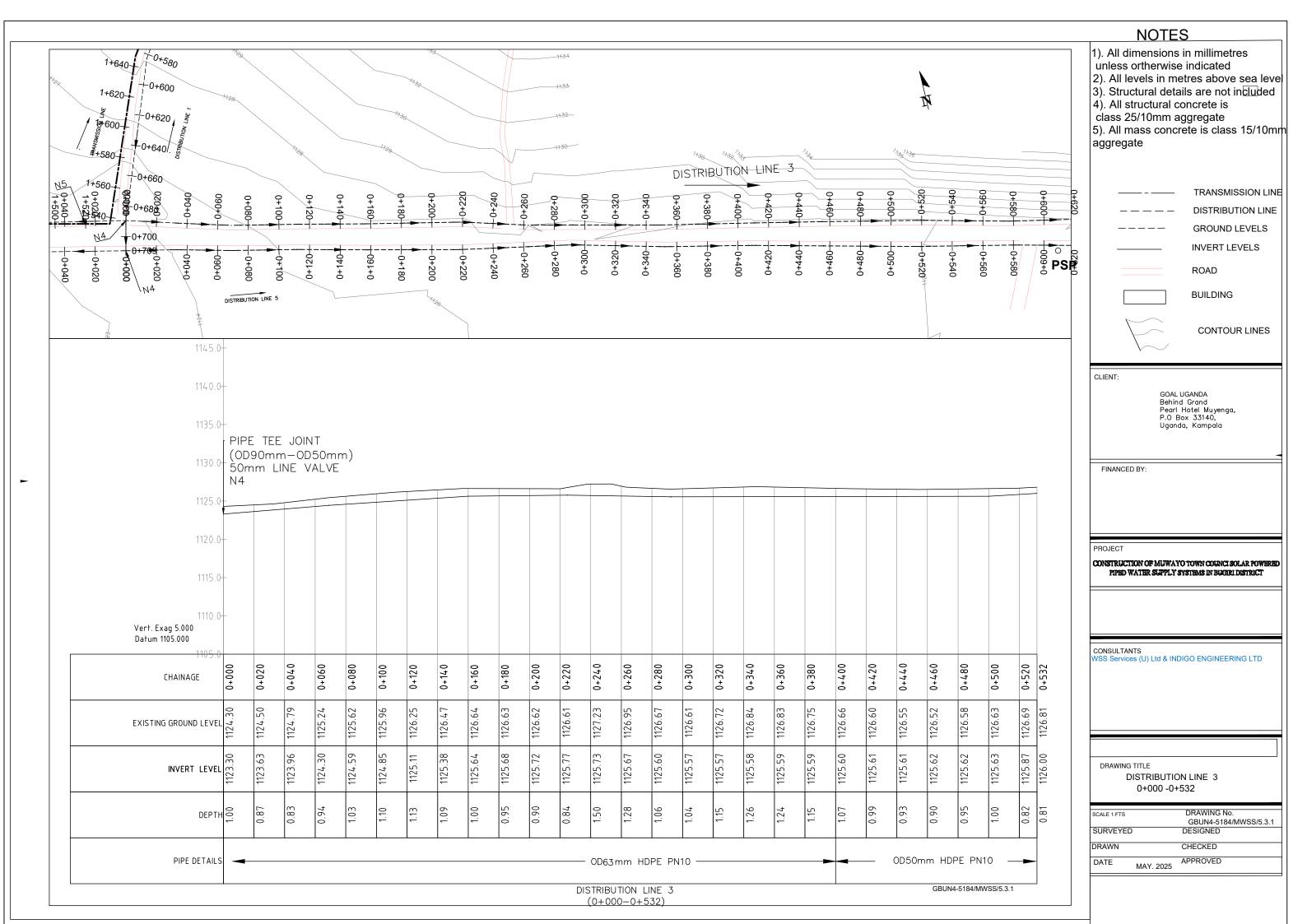


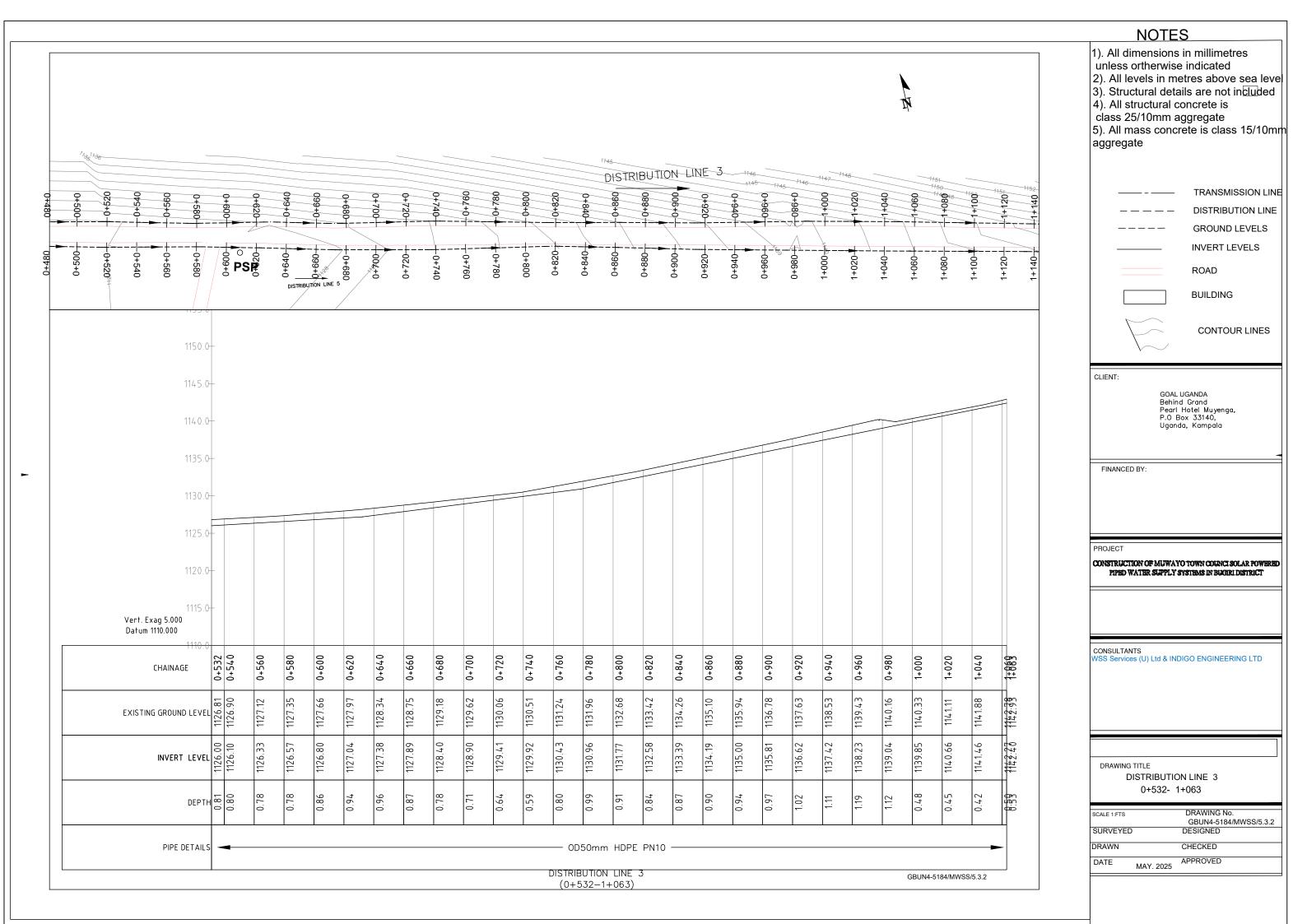


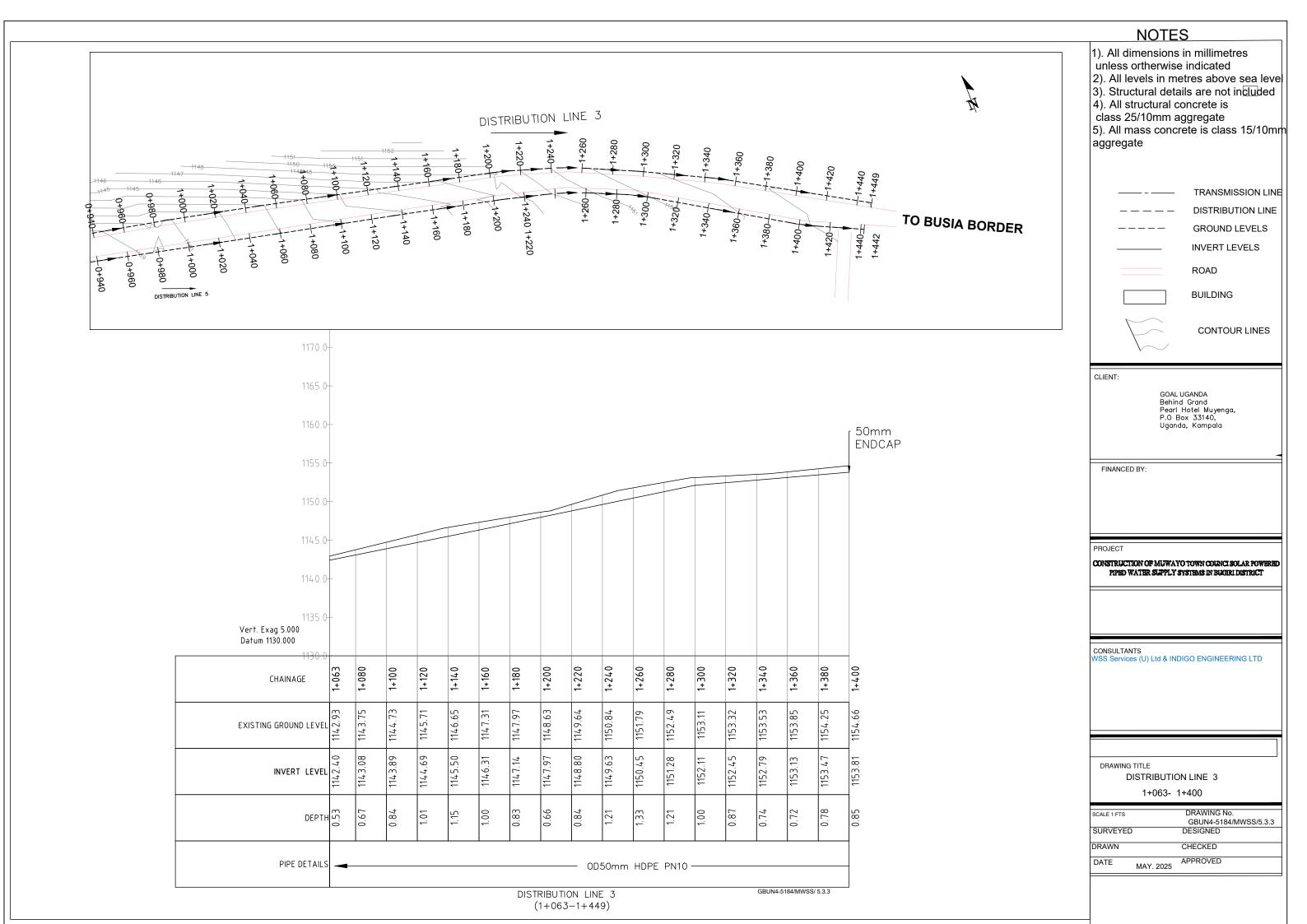


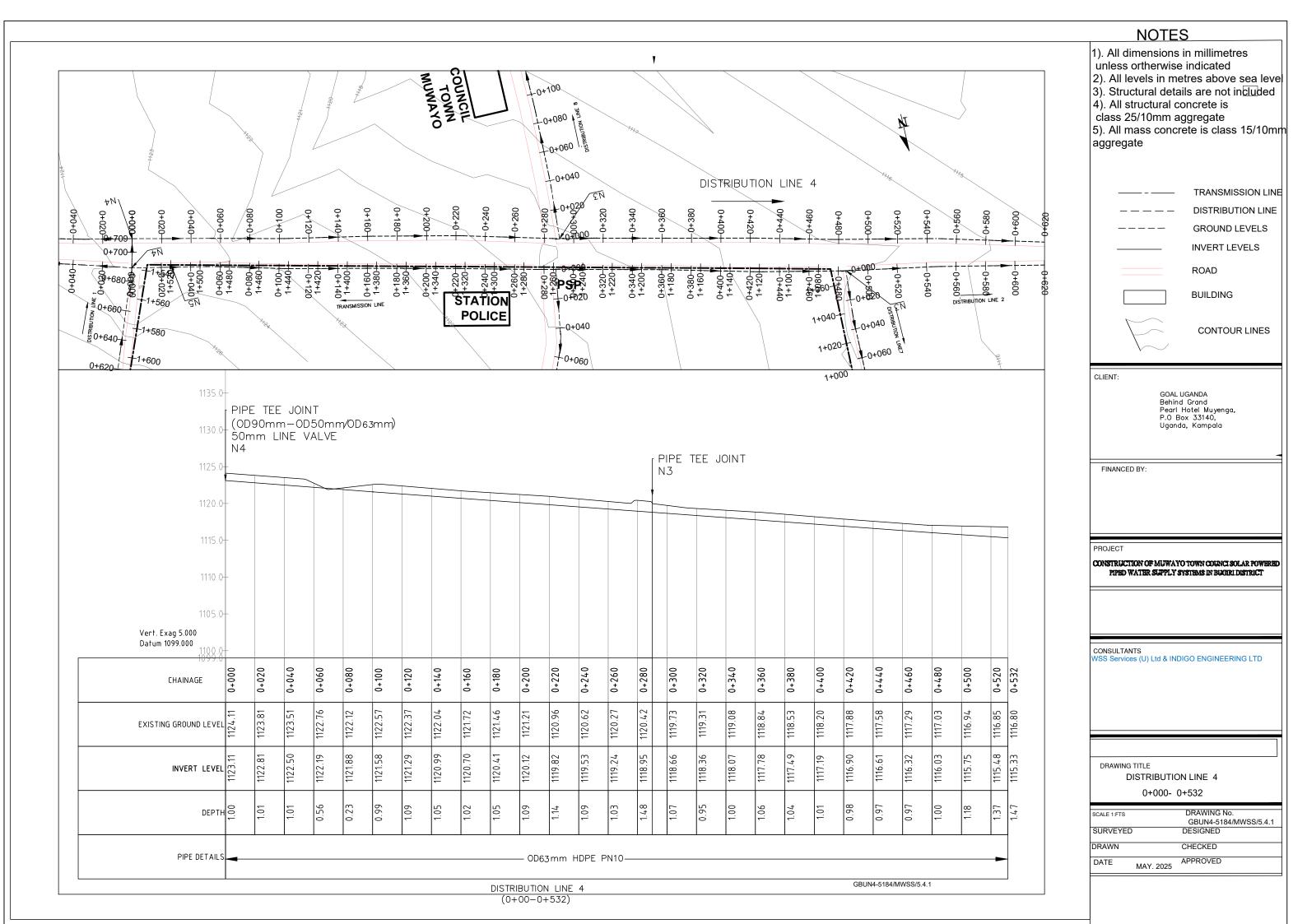


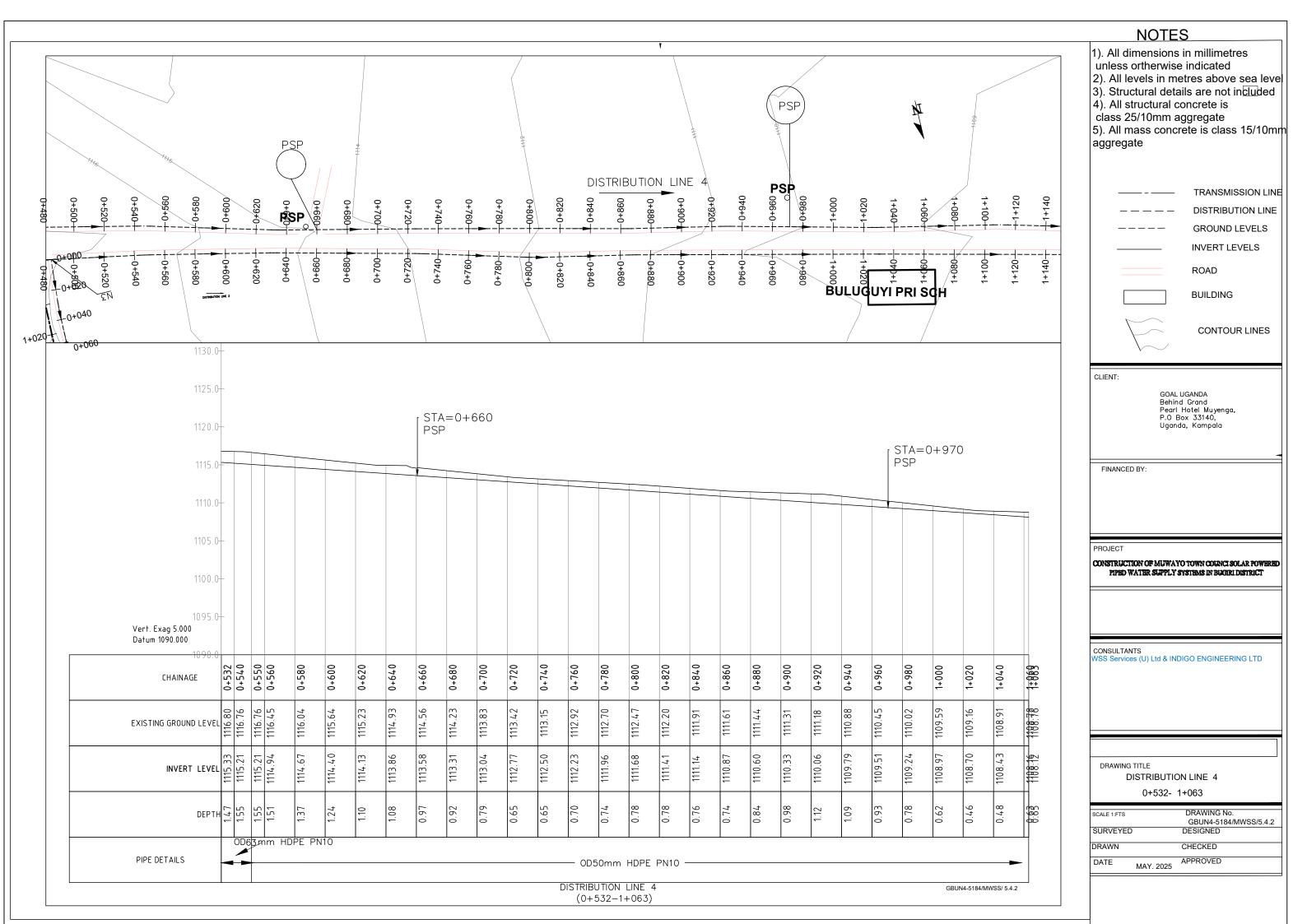


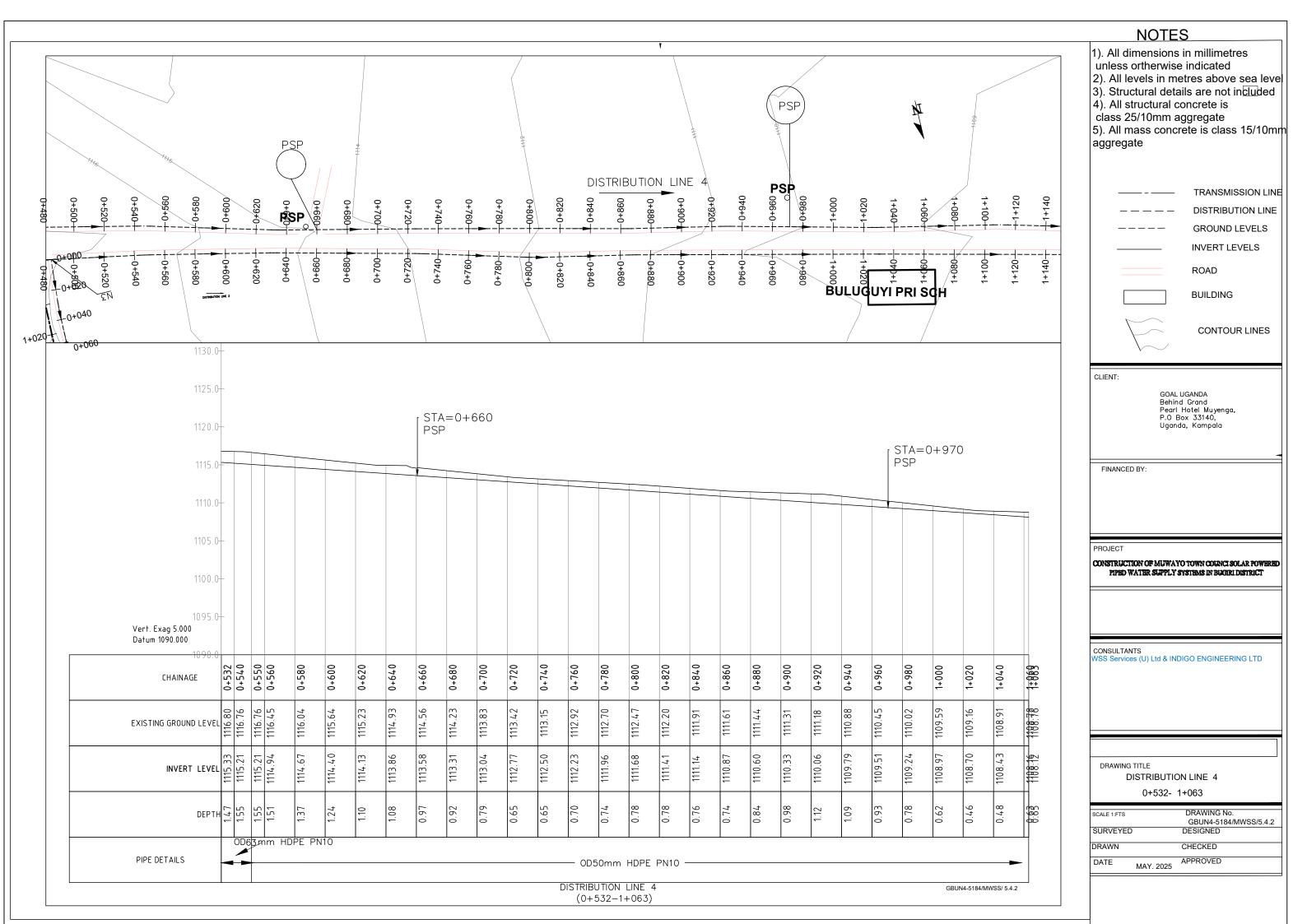


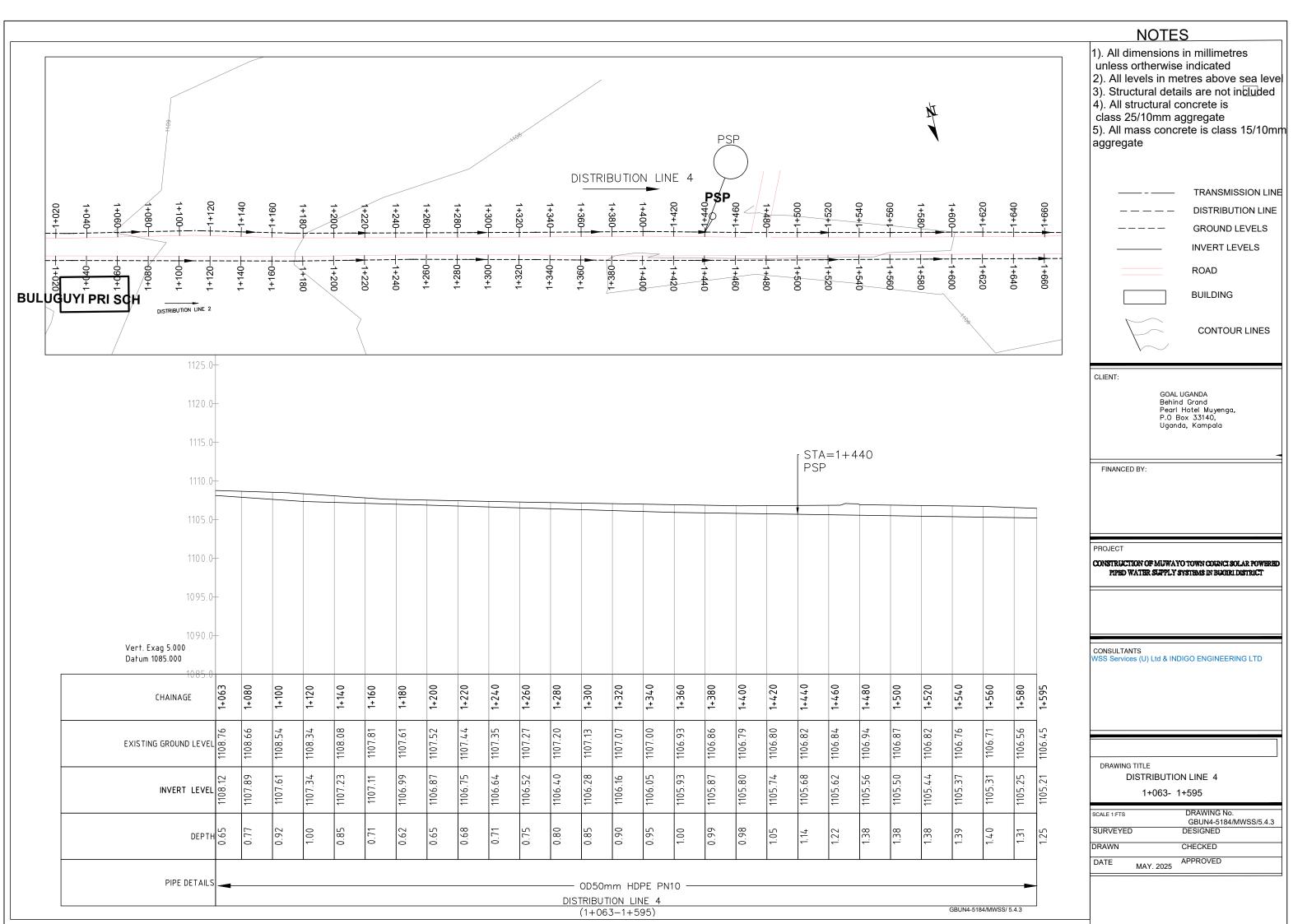


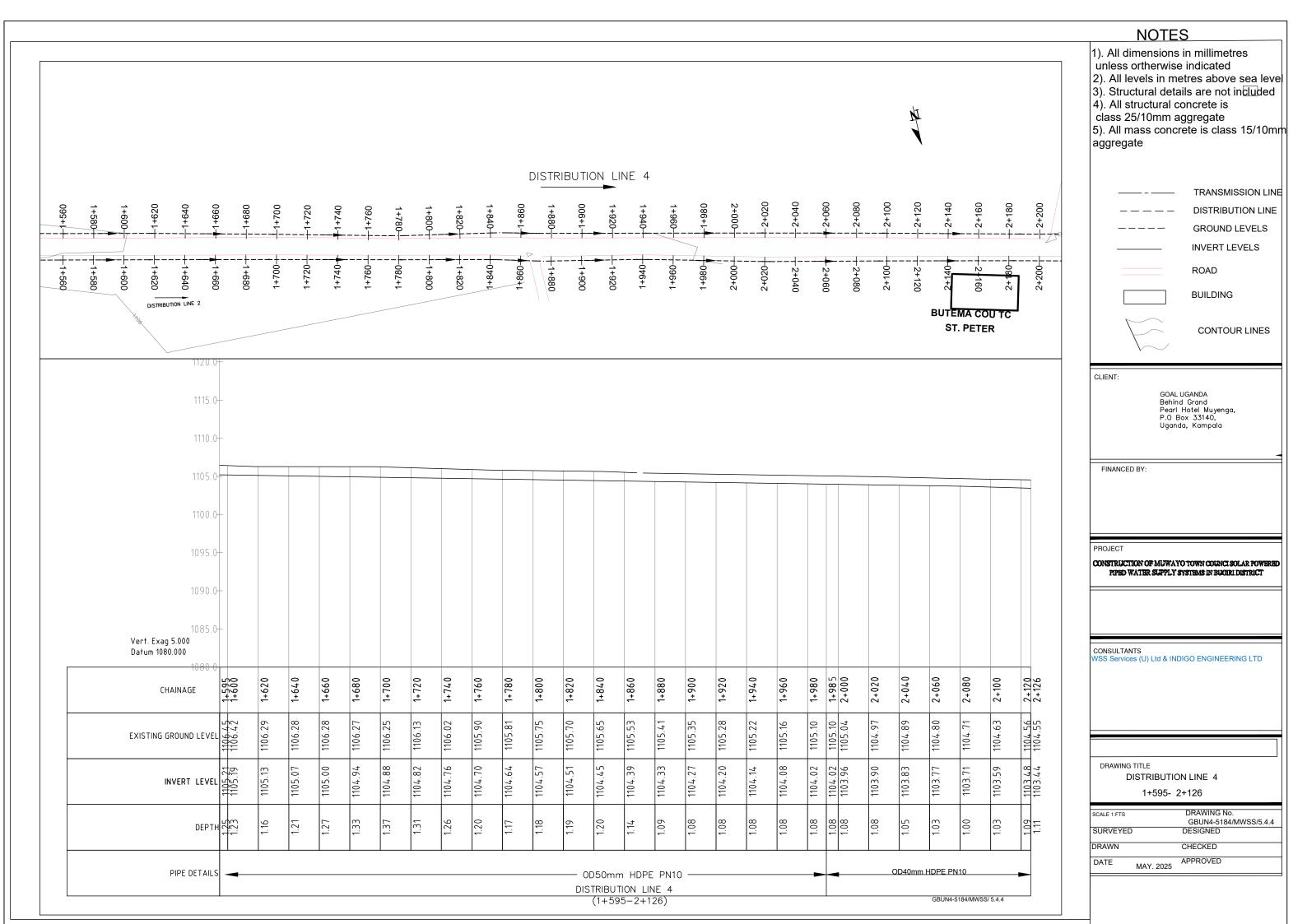


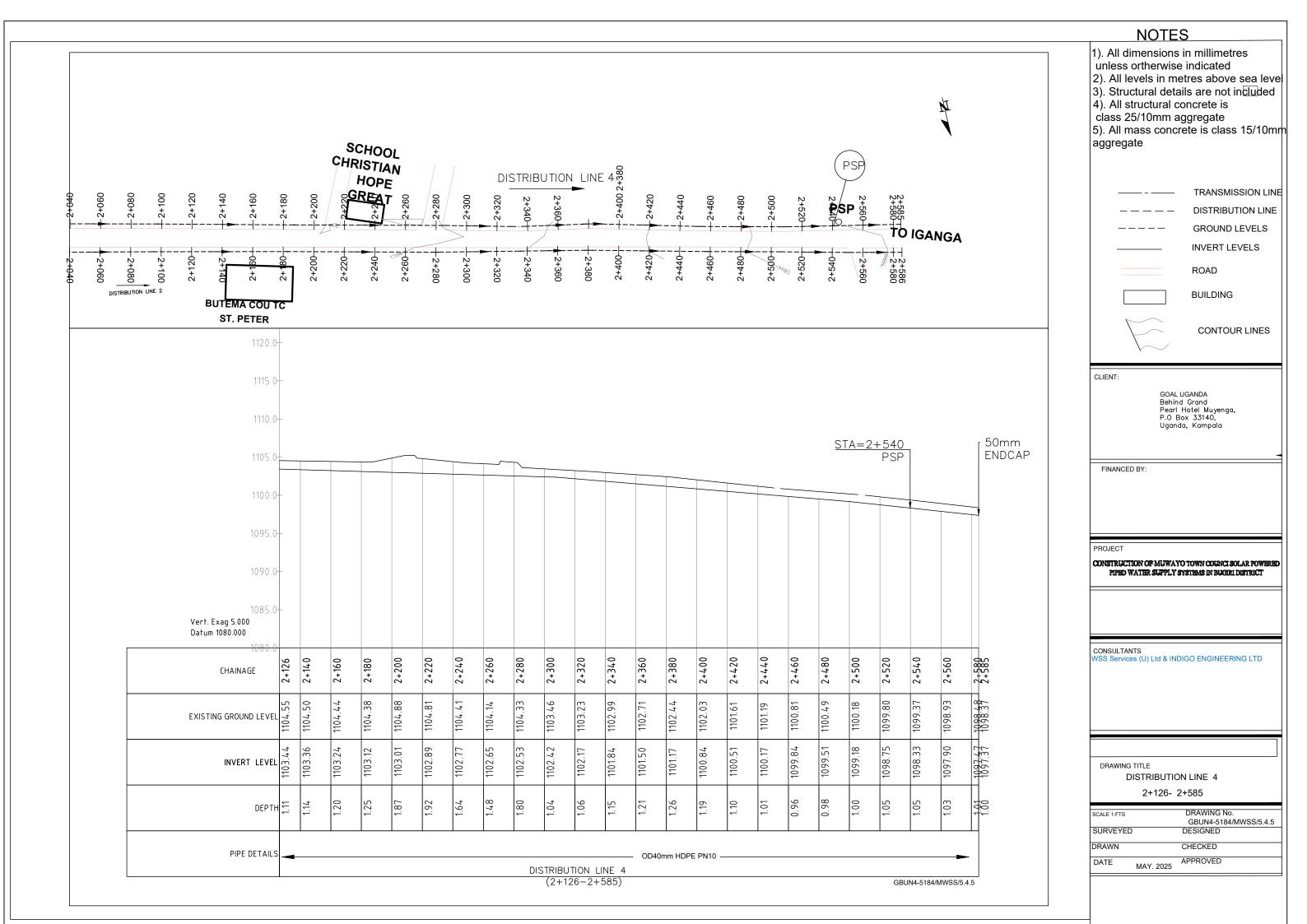


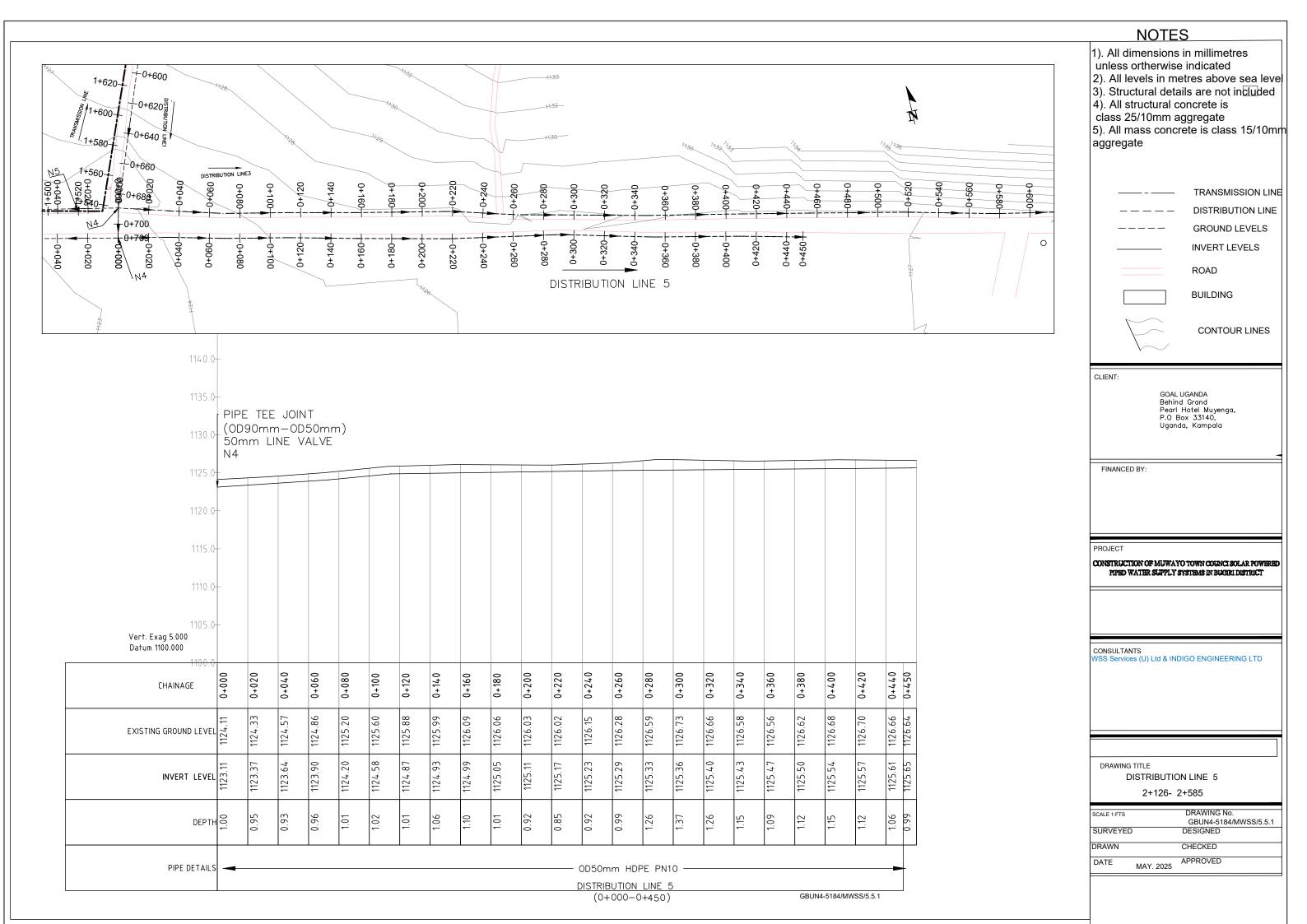


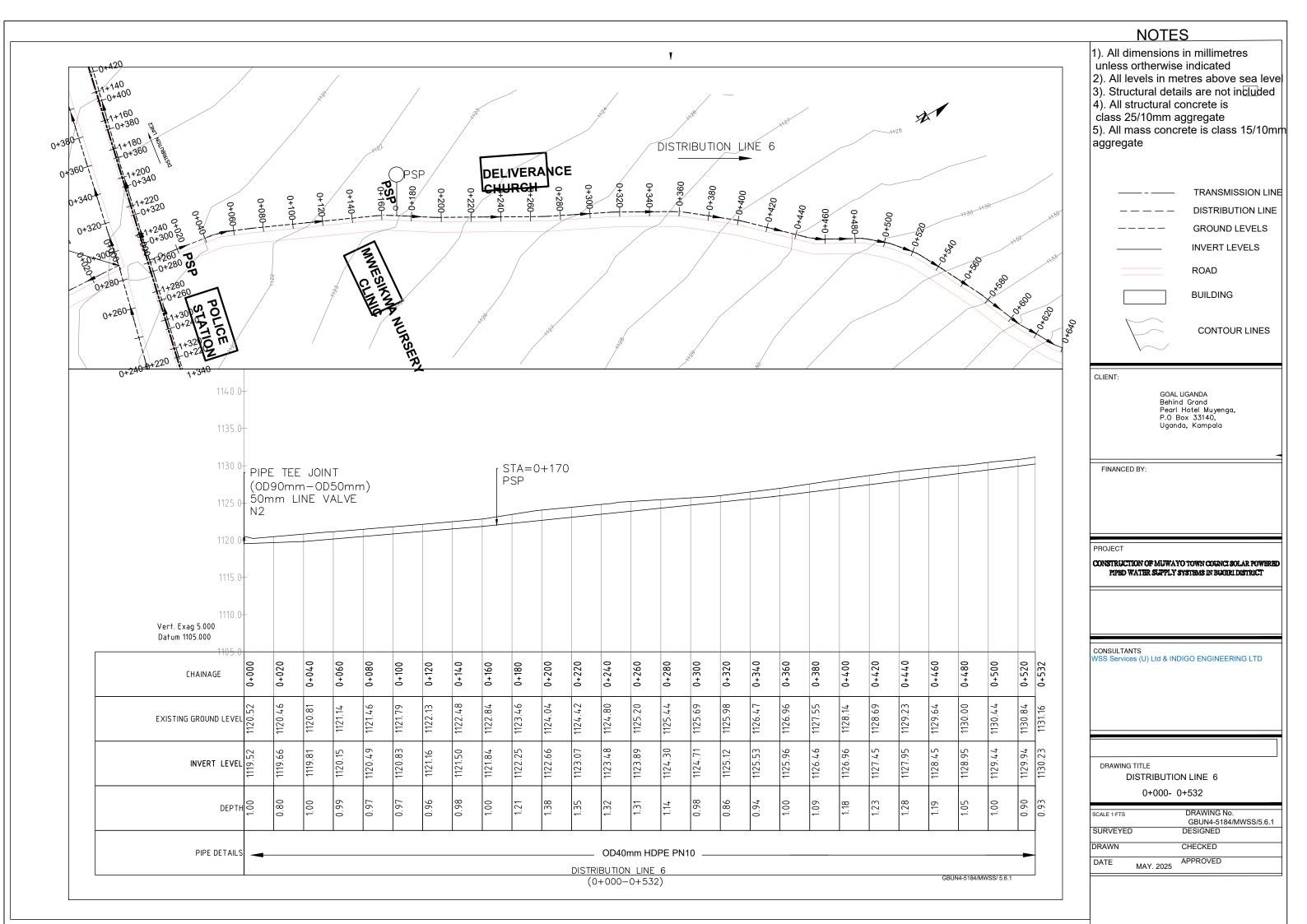


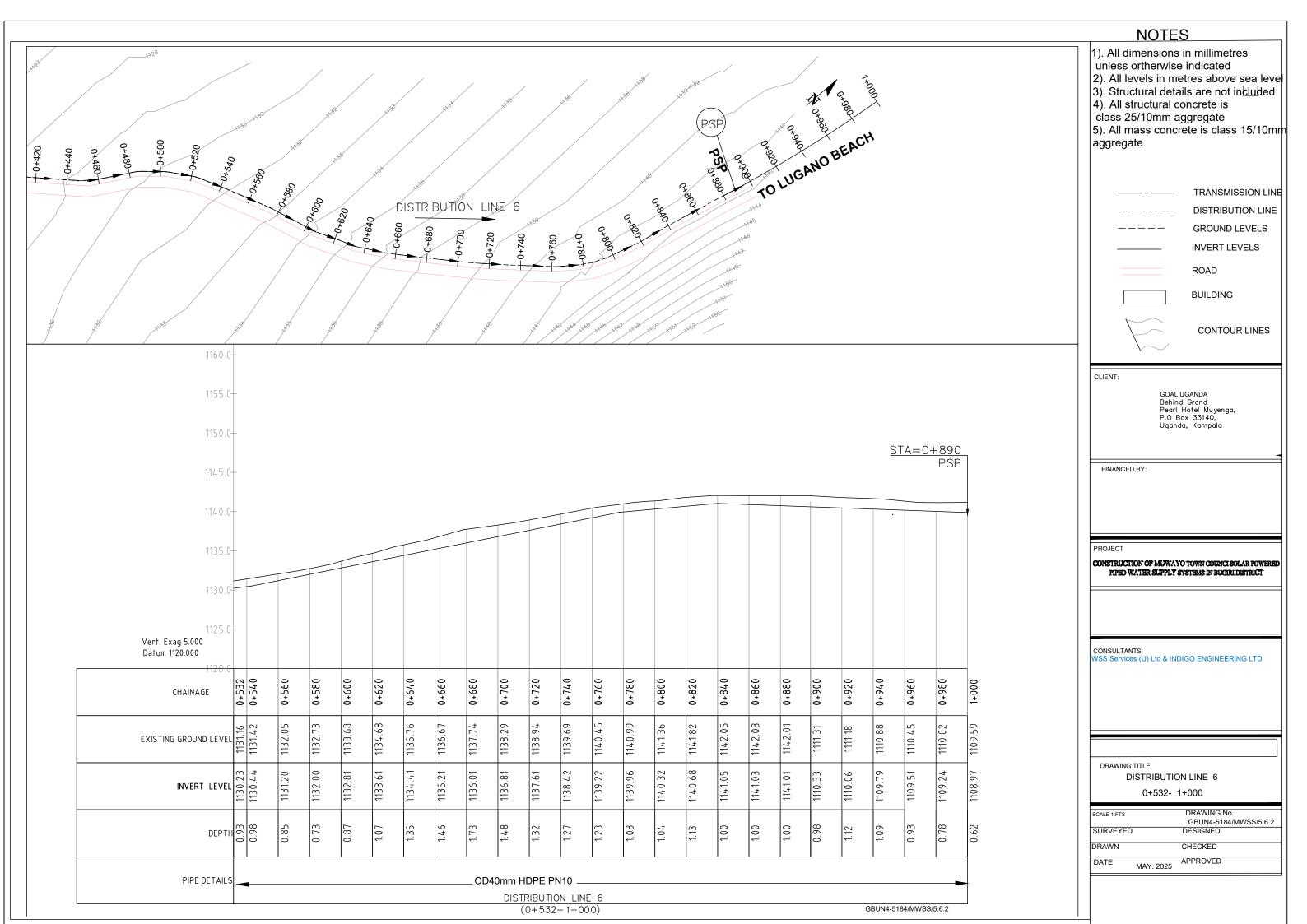


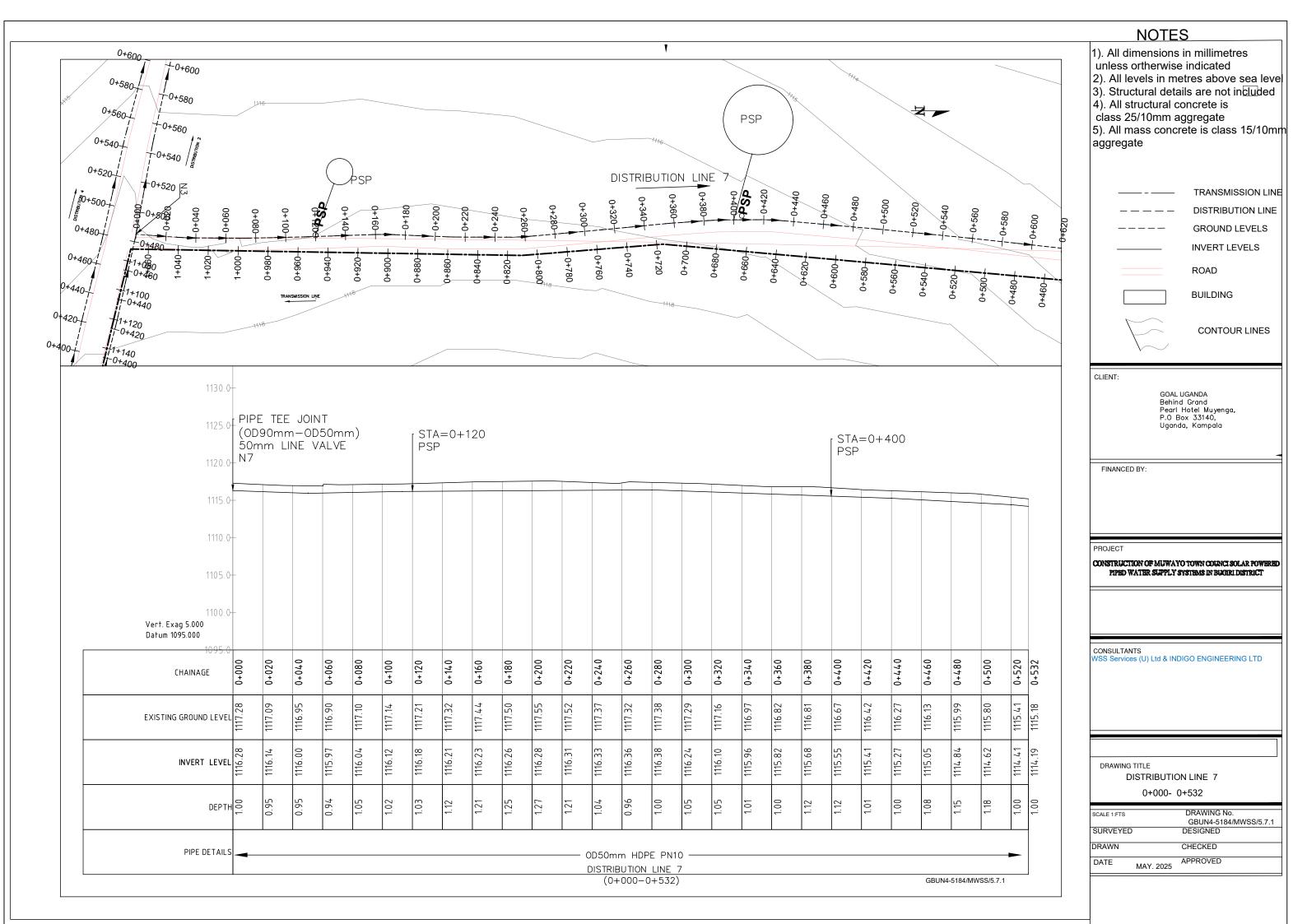


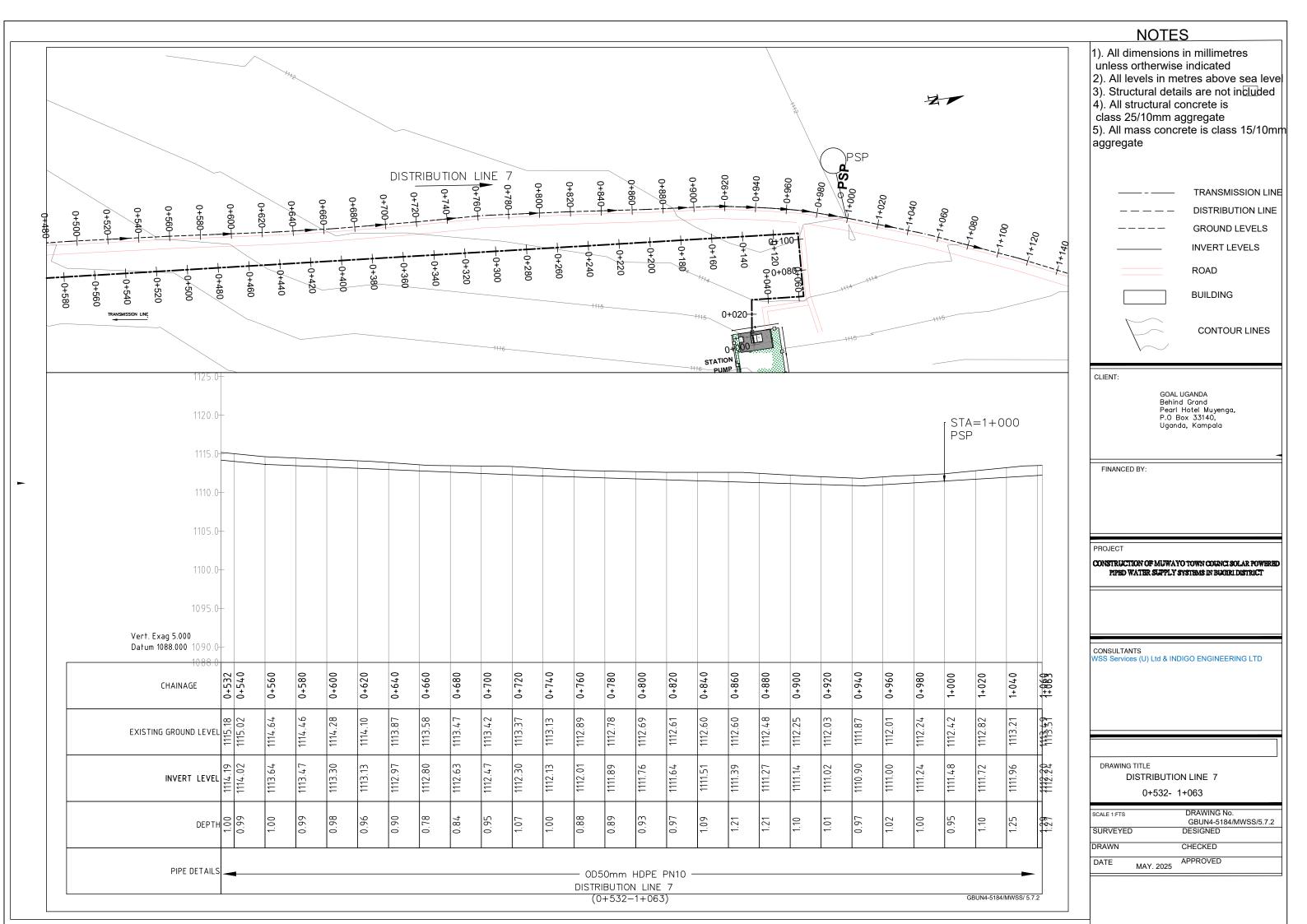


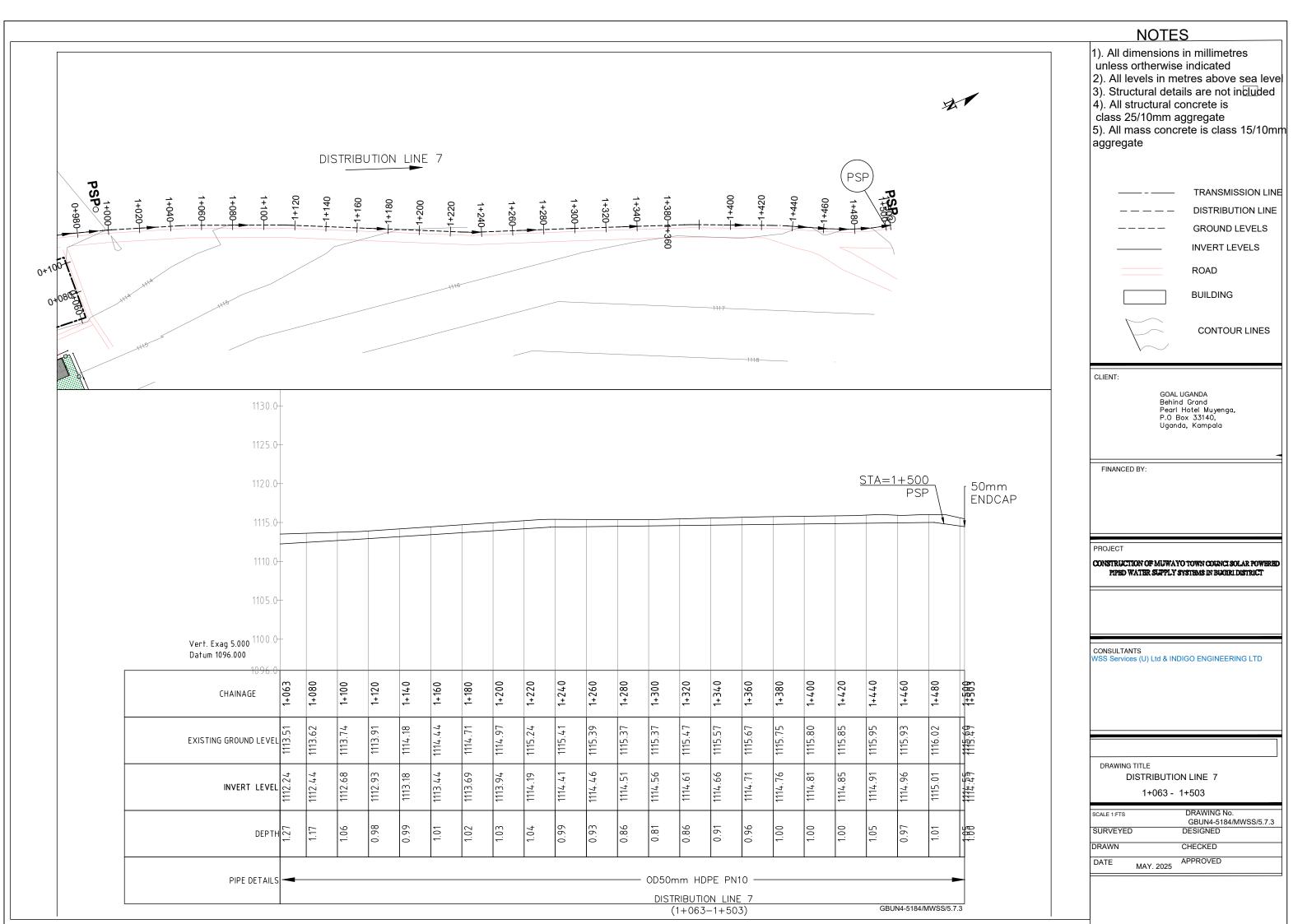


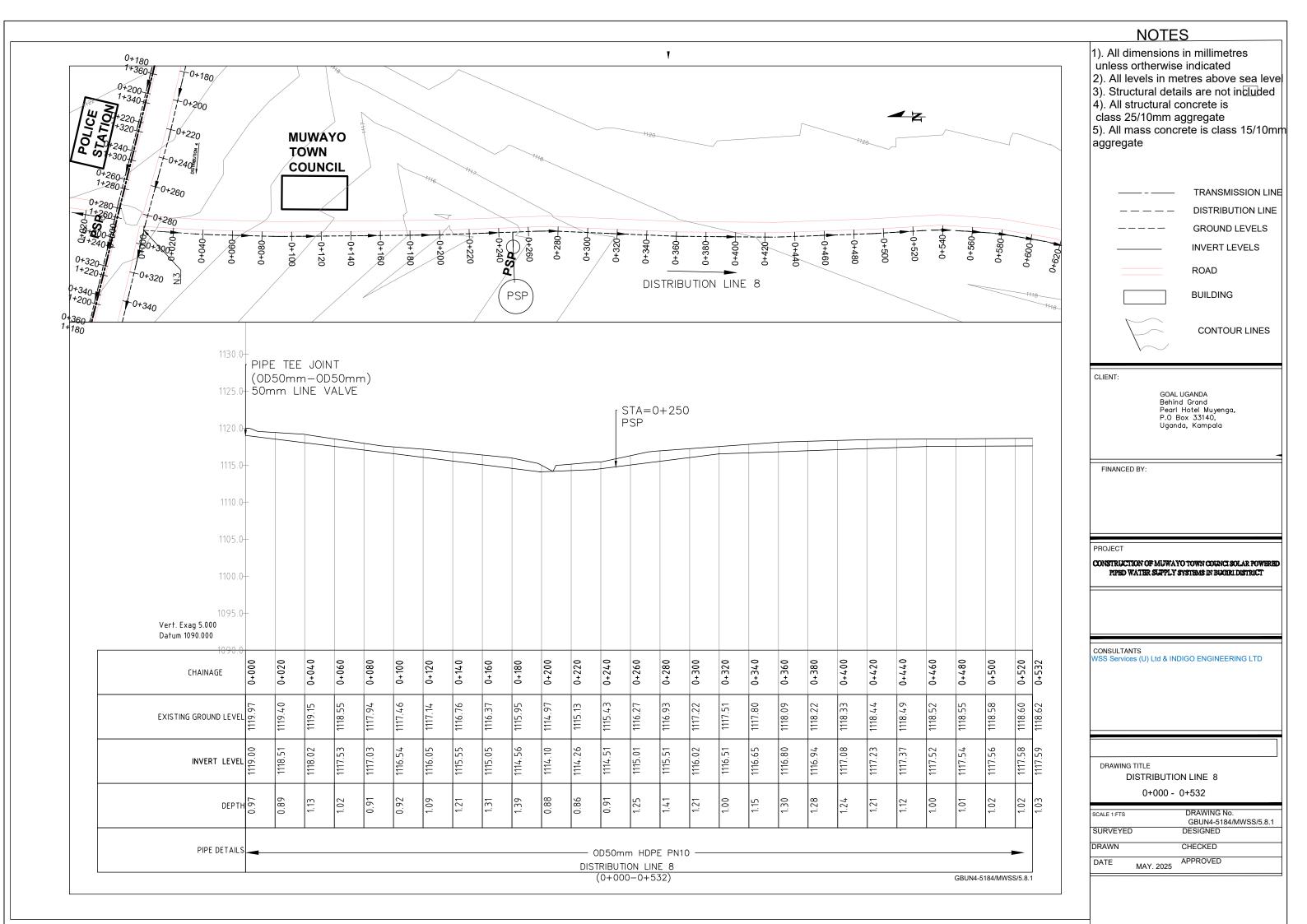


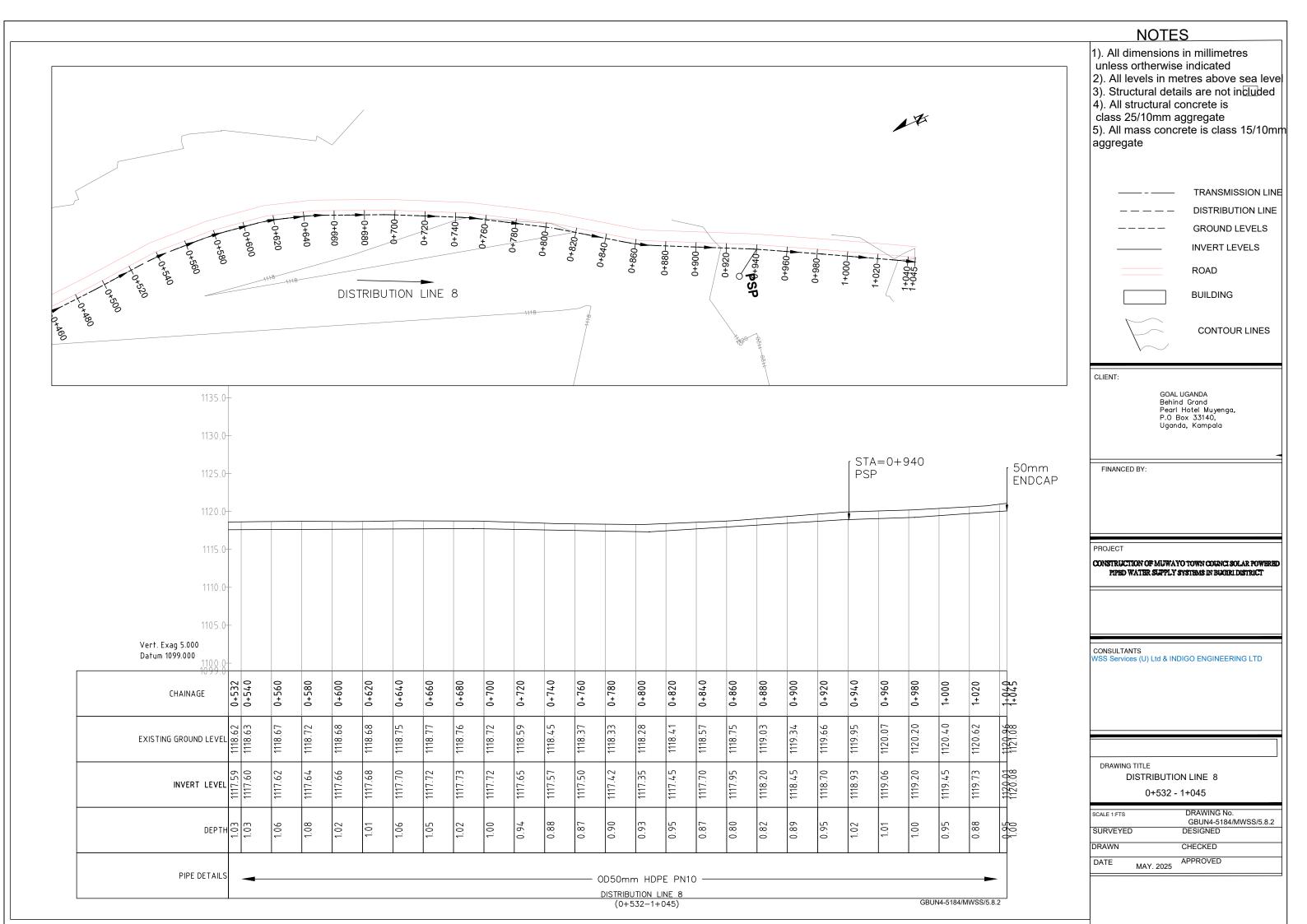


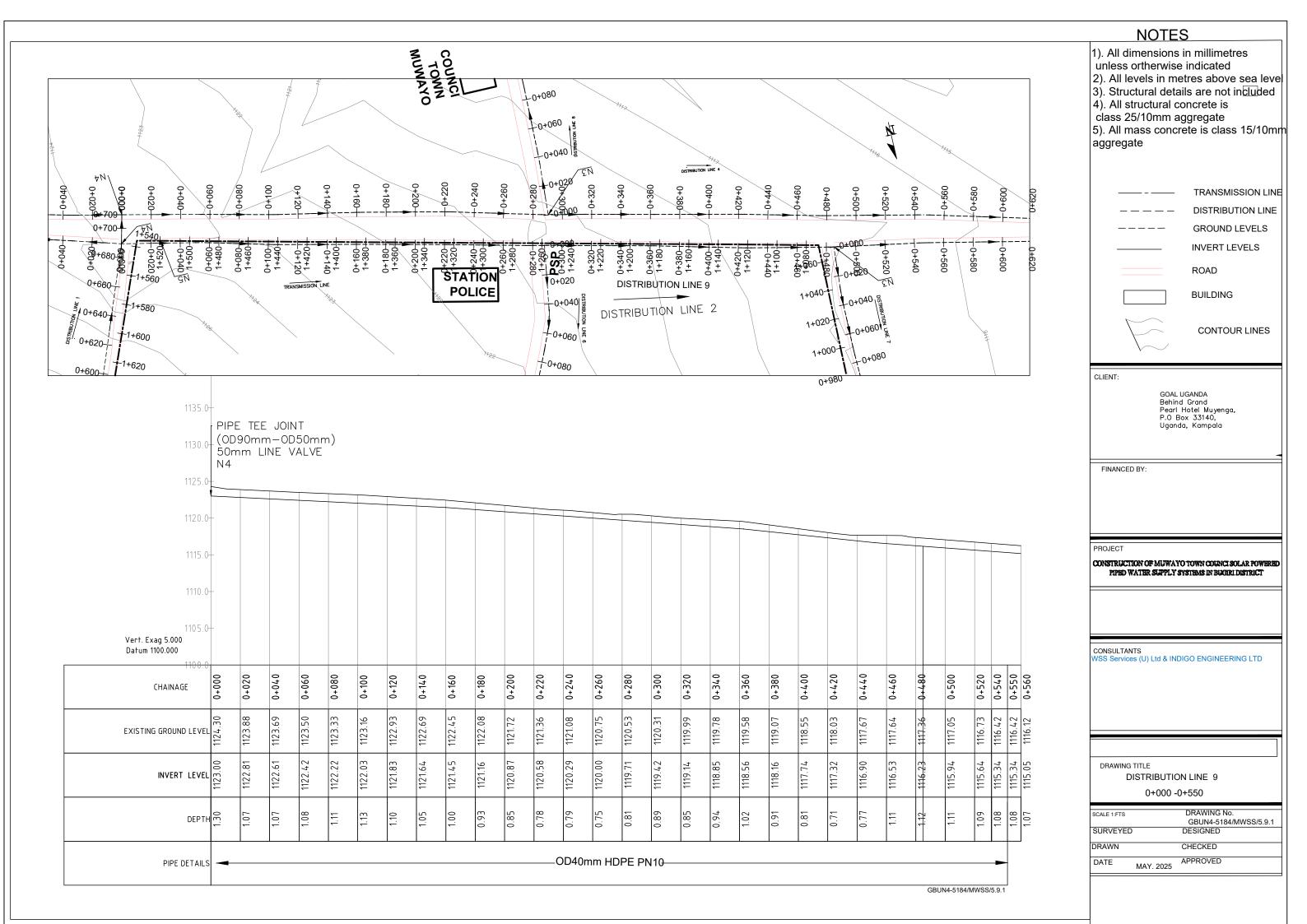


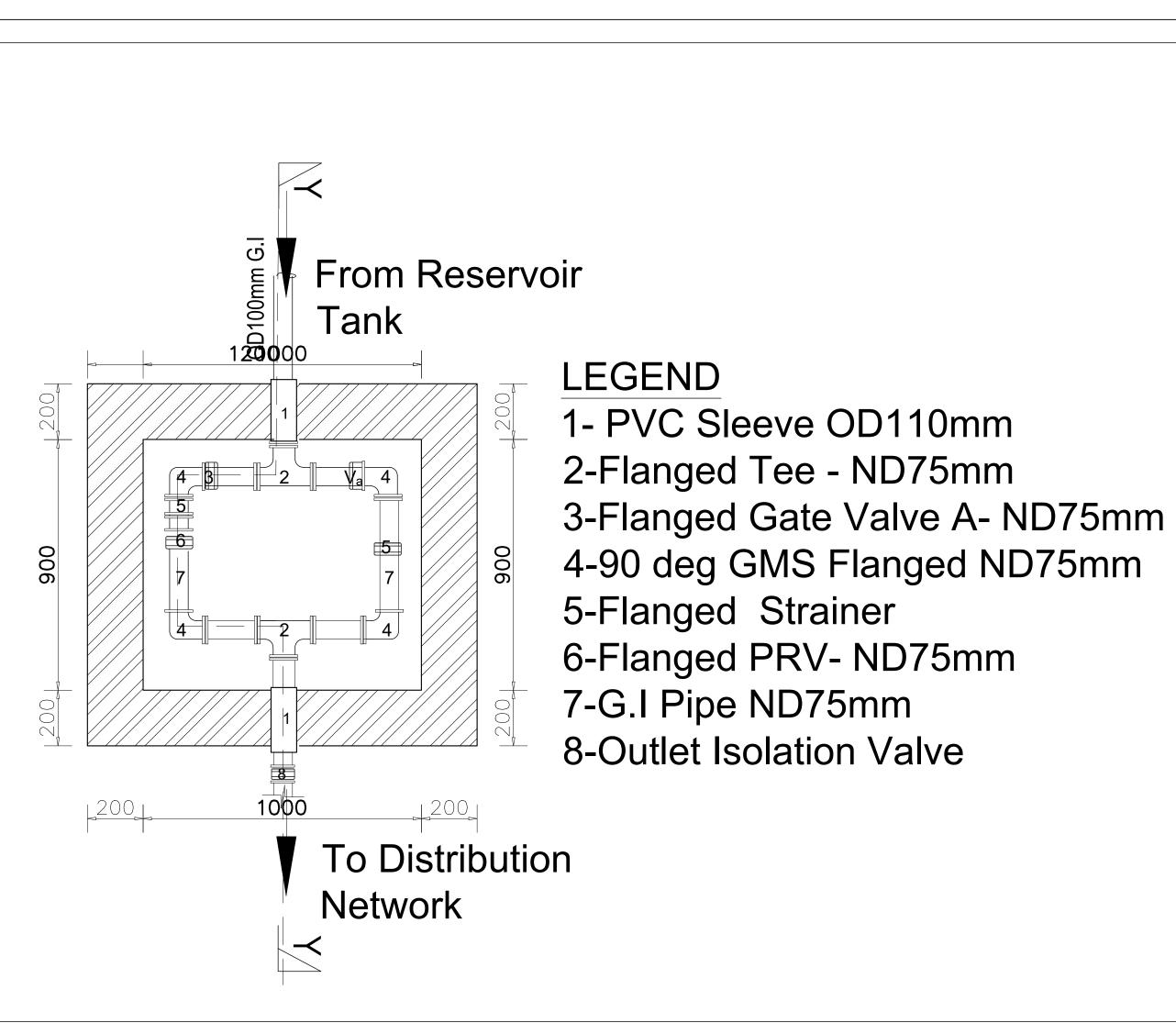












NOTES

1). All dimensions in millimetres unless ortherwise indicated

- 2). All levels in metres above sea leve
- 3). Structural details are not included
- 4). All structural concrete is class 25/10mm aggregate
- 5). All mass concrete is class 15/10mm aggregate

TRANSMISSION LINE

TRANSMISSION LINE

DISTRIBUTION LINE

GROUND LEVELS

INVERT LEVELS

ROAD

BUILDING

CONTOUR LINES

CLIENT:

GOAL UGANDA Behind Grand Pearl Hotel Muyenga, P.O Box 33140, Uganda, Kampala

FINANCED B

PROJECT

CONSTRUCTION OF MUWAYO TOWN COUNCI SOLAR POWERED PIPED WATER SUPPLY SYSTEMS IN BUGIN DISTRICT

CONSULTANT

WSS Services (U) Ltd & INDIGO ENGINEERING LTD

DRAWING TITI

PRV MANHOLE Details-Floor Plan

SCALE 1:FTS

DRAWING NO.
MY-.Prv.01

SURVEYED

DRAWN

CHECKED

DATE

MAY. 2025

DRAWN

DRAWN

DRAWN

APPROVED

