



Save the Children

Multipurpose Disaster Shelter Support (MPDS) Project




PLUMBING DESIGN & DRAWINGS

FOR

CONSTRUCTION OF MULTIPURPOSE DISASTER SHELTER AT LAMA ADORSHO GOVERNMENT PRIMARY
SCHOOL UNDER LAMA UPAZILA, DISTRICT: BANDARBAN

Issued for Tender

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NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<div> MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban FUNDED BY: USAID	MPDS Engineering Team	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	Package No: SCI/MPDS/B10-19-01	INDEX (PLUMBING)	All Dimension are in Millimeter unless mentioned	P-00
					Revision No:			SCALE
								As Shown
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NOTES FOR PLUMBING:

- All the plumbing drawings shall be read in conjunction with relevant architectural, structural and electrical drawings.
- Before commencement of work on-site measurement must be checked for all dimensions. If any discrepancy is found on drawing should be informed Engineer-in-Charge.
- Every branch and drain line shall be laid in a straight with a constant gradient.
- Floor finish in all toilets to be laid in slope towards floor drain / floor trap.
- Inspection pit soil & waste pit depth shall be 600 mm or shown to the relevant drawing.
- Orientation of Toilet Fixture should confirm with the Community discussion. Site specific detailed shall be provided in construction drawing.
- 150 mm slope for 30,000mm uPVC pipe for water supply. (Slope: 1:200)
- All horizontal drainage pipes shall be laid at following slope

Size of Pipe	Soil Pipe	Waste & Rain Water Pipe
50 mm dia		1 in 40
100 mm dia	1 in 60	1 in 80
150 mm dia	1 in 80	1 in 100/200
275/300 mm dia	1 in 100	1 in 150




9. PIPE SPECIFICATIONS

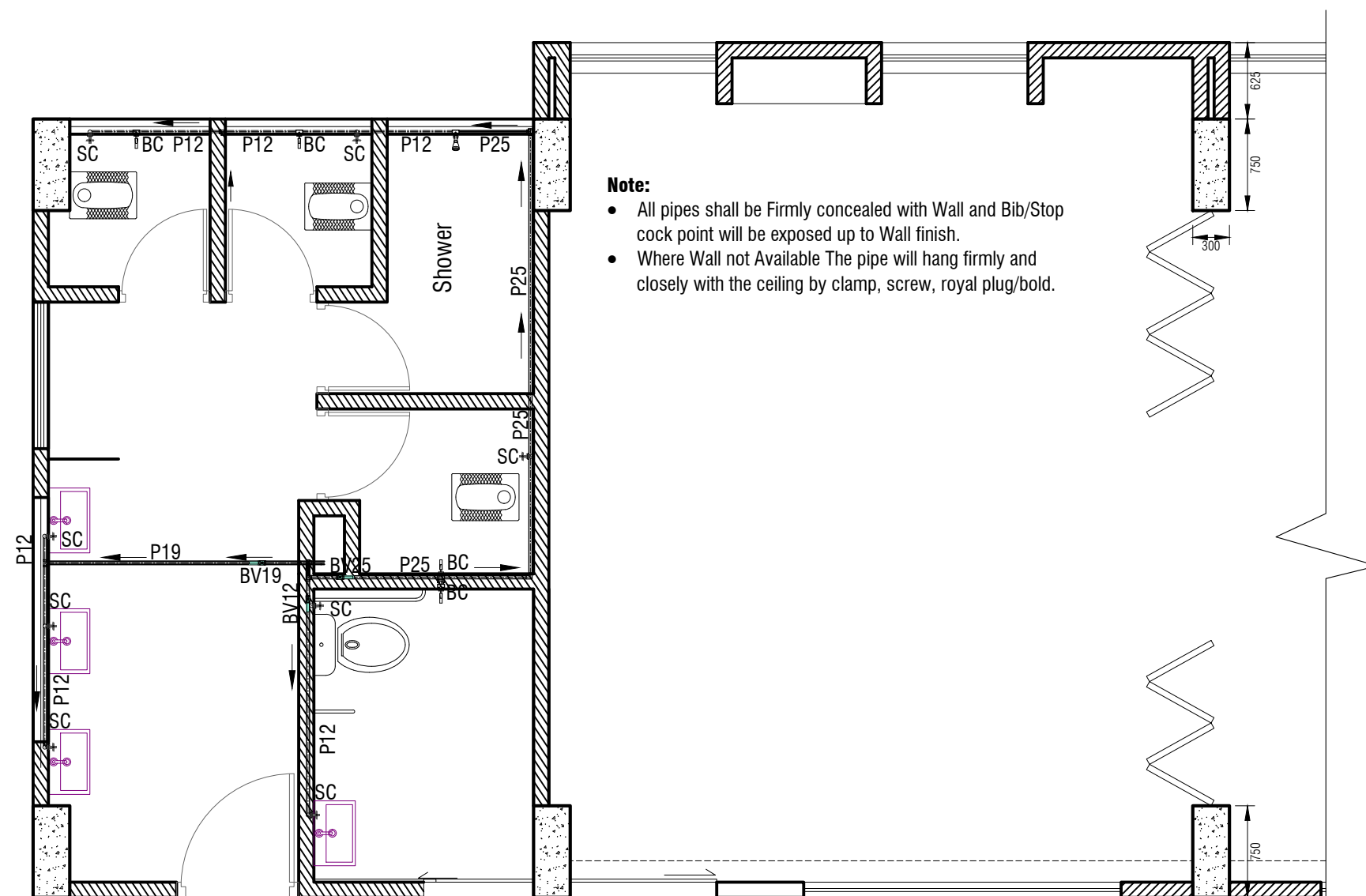
All pipe size and thickness as below (Water Supply, Waste, Soil etc.)

Pipe Size	Pipe Type	Thickness
12 mm Ø	uPVC (C-grade)	2.80 to 3.30 mm
19 mm Ø	uPVC (C-grade)	2.90 to 3.40 mm
25 mm Ø	uPVC (C-grade)	3.40 to 4.00 mm
25 mm Ø	HDPE (water supply)	2.00 to 2.40 mm
32 mm Ø	uPVC (C-grade)	3.60 to 4.20 mm
50 mm Ø	PVC (Vent Pipe)	2.50 to 3.00 mm
50 mm Ø	uPVC (Waste Water)	2.50 mm (Minimum)
100 mm Ø	PVC (Rain Water)	2.90 mm (Minimum)
100 mm Ø	uPVC (Soil Pipe)	3.40 mm (Minimum)

Legend

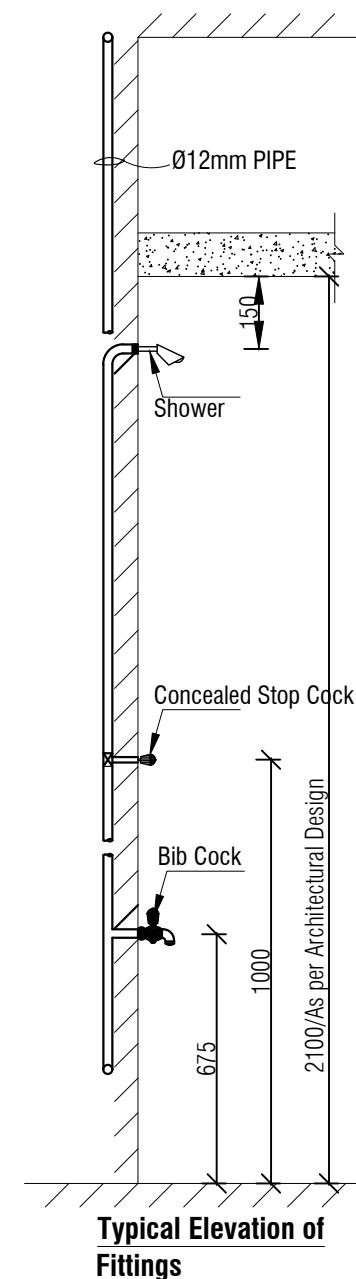
P12	= 12mm internal dia Pipe
P19	= 19mm internal dia Pipe
P25	= 25mm internal dia Pipe
P32	= 32mm internal dia Pipe
SC	= Stop Cock
BC	= Bib Cock
FT	= 100mm Ø Floor Trap
PC	= Pillar Cock
SW	= Shower
CS	= Concealed Stop Cock
	= Water Flow Direction
GV32	= 32mm Gate Valve
BV25	= 25mm Ball Valve
BV19	= 19mm Ball Valve
BV12	= 12mm Ball Valve
P50	= 50mm internal dia Pipe
P100	= 100mm internal dia Pipe
FT	= 100mm Ø Floor Trap
←	= Water Flow Direction
■	= Waste water Pipe, Slope 1:80
▨	= Soil Pipe, Slope 1:60

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- Note:**
- All pipes shall be Firmly concealed with Wall and Bib/Stop cock point will be exposed up to Wall finish.
 - Where Wall not Available The pipe will hang firmly and closely with the ceiling by clamp, screw, royal plug/bold.

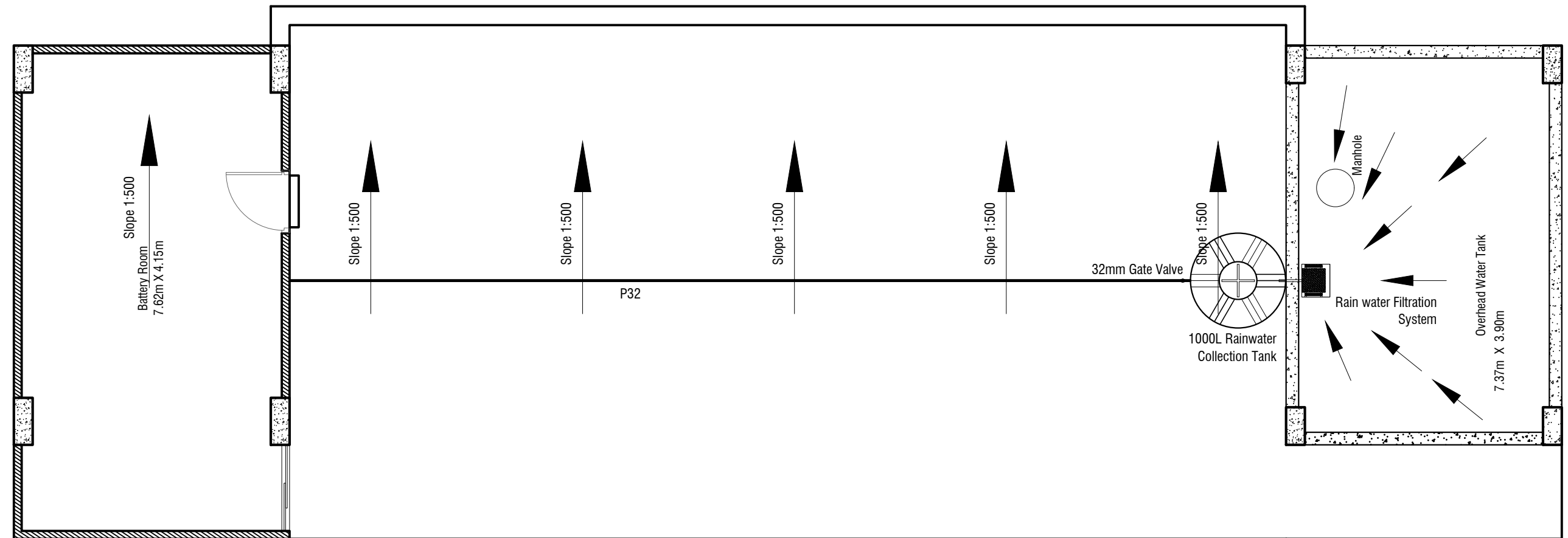
1ST FLOOR USABLE WATER PIPELINE NETWORK



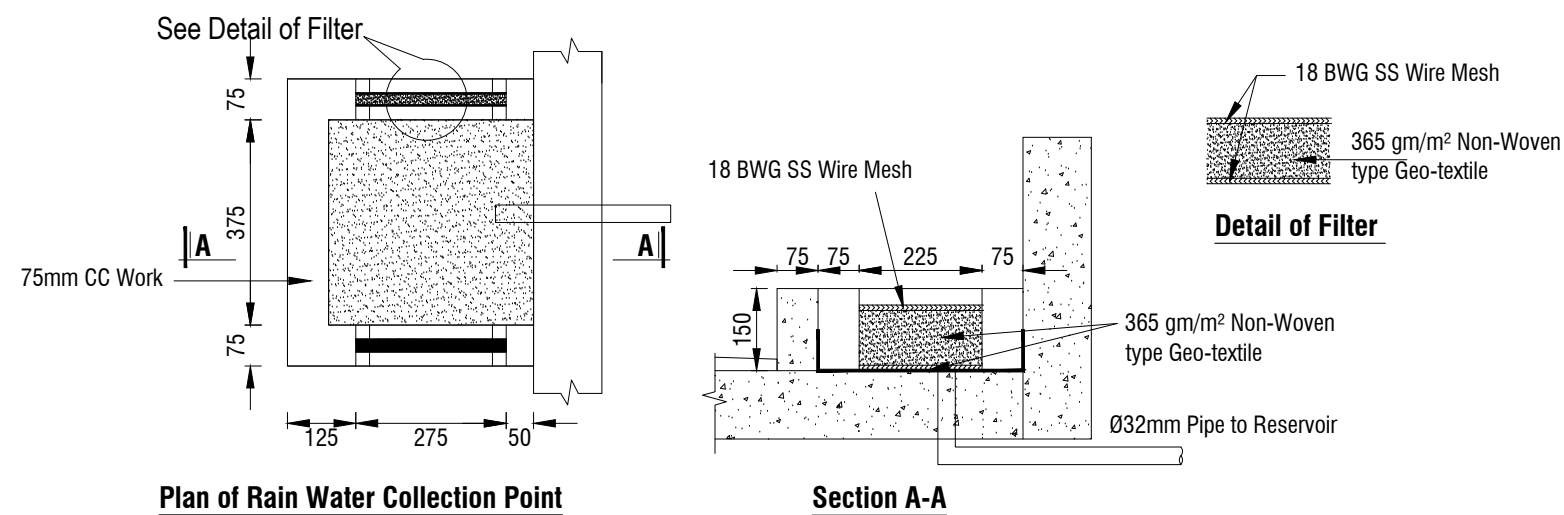
All Fixture are symbolic
Design and specification will reflect in Bill of Quantity

Note:
Orientation of Toilet Fixture should confirm to North
South direction. Site specific detailed shall be provided
in construction drawing.

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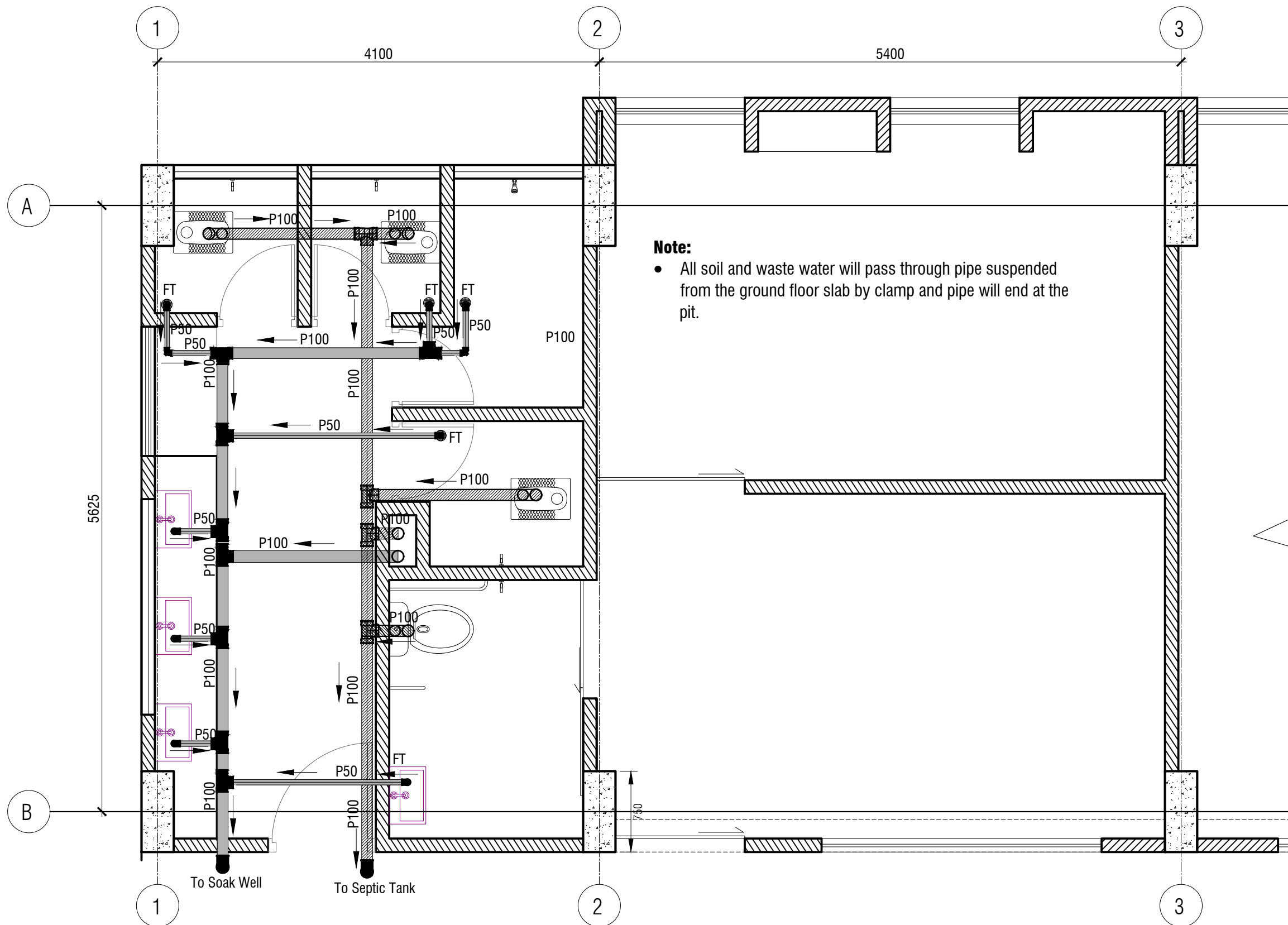


USABLE WATER PIPE NETWORK (ROOF LEVEL)



Note: Rain Water Down Pipe Will Connect to Drainage System

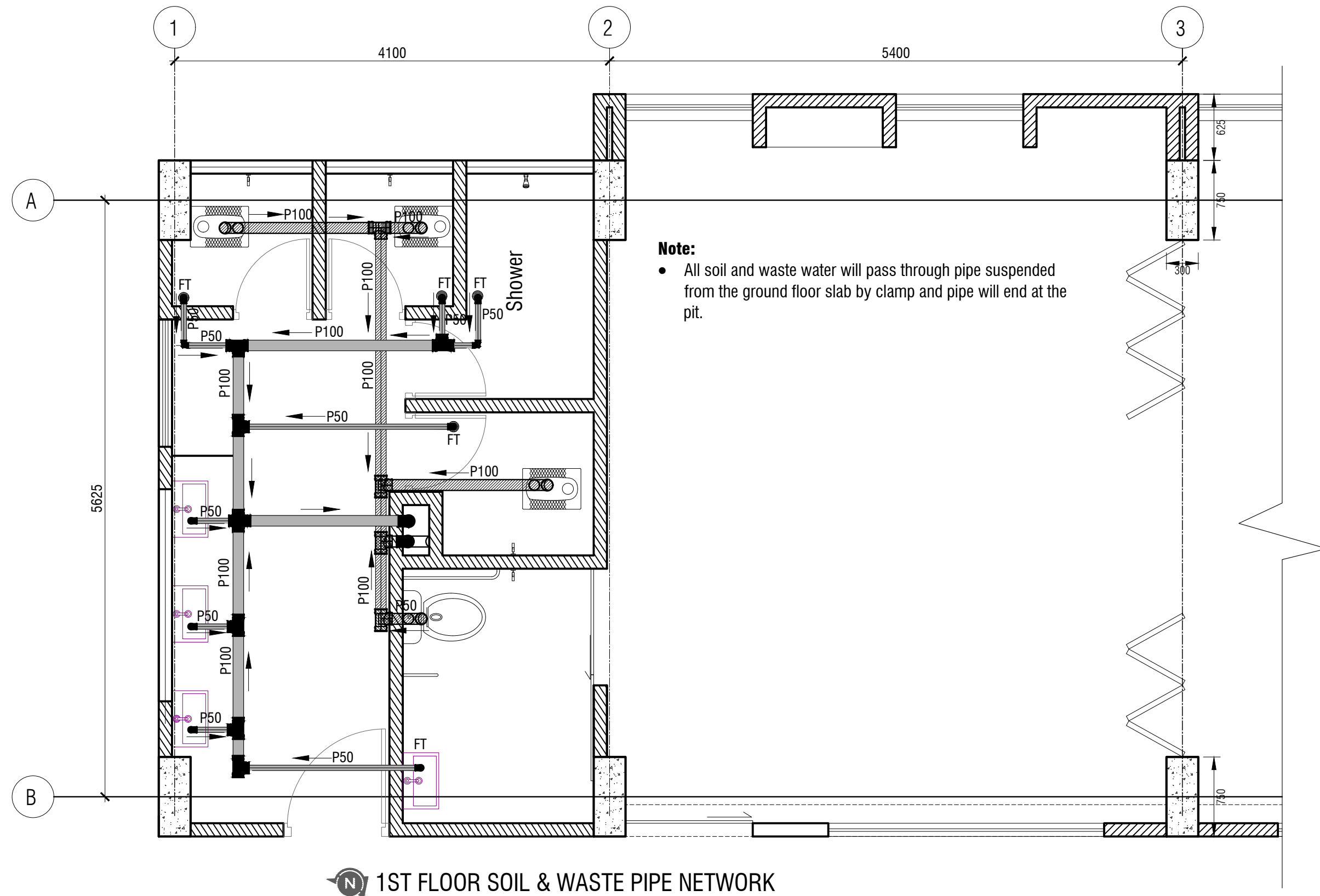
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GROUND FLOOR SOIL & WASTE PIPE NETWORK

Note:
Orientation of Toilet Fixture should confirm to North South direction. Site specific detailed shall be provided in construction drawing.

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Note:
Orientation of Toilet Fixture should confirm to North South direction. Site specific detailed shall be provided in construction drawing.

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