REPUBLIC OF UGANDA

VOLUME 4-2: BOOK OF DRAWINGS
(PUBLIC TOILETS)

INTEGRATED WATER MANAGEMENT AND DEVELOPMENT PROJECT (IWMDP)

CONSTRUCTION OF BUTALEJA AND BUSOLWE WATER SUPPLY AND SANITATION SYSTEM
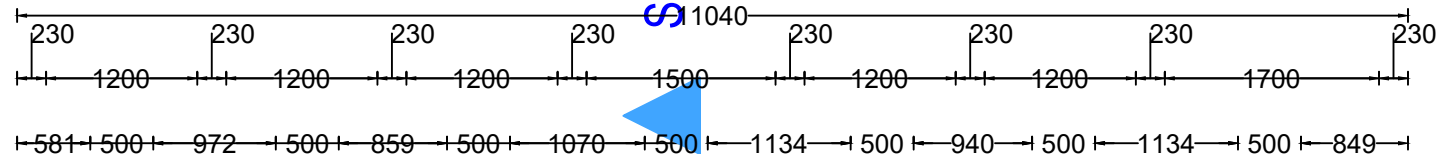
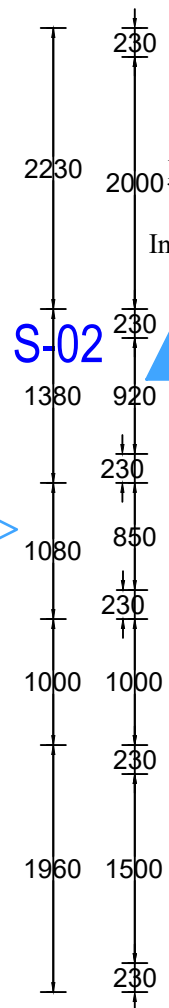### CONTRACT NO: MWE/WRKS/21-22/00005/2

SUBMITTED BY:

saman
Saman Corp.

CHEIL
ENGINEERING

JULY 2022

North Elevation
S-01

230 1040 230 230 230 230 230 230 230
1200 1200 1200 1500 1200 1200 1700
581 500 972 500 859 500 1070 500 1134 500 940 500 1134 500 849

W1   W1   W1   W1   W1   W1   W1

West Elevation
S-02

2230 2000 Detail @ C
Incinerator

230
1380 920
230
1080 850
weephole
230
1000 1000
230
1960 1500
230

To Detail @ B
To Detail @ A

Rotation area for wheel chair

4060
4560
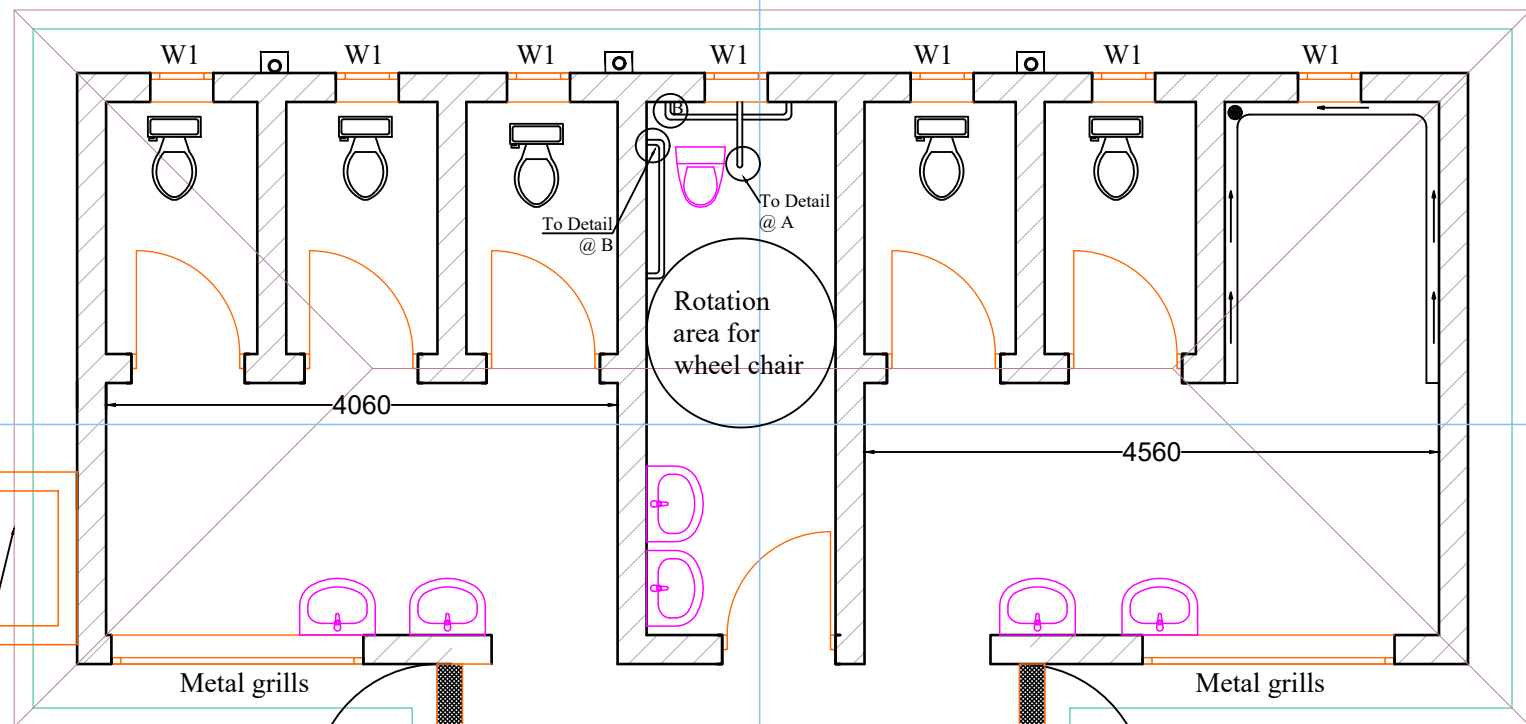
Metal grills
Metal grills

Ramp
Slab to 2% gradient
Ramp
100mm Ø PVC drain pipe

450 665   1730   1315
Reinforced concrete shelve
1500 Attendant   1730
230

Steel ladder

Metal grills
230x230mm R.C column

4420
4820

230 1000 2630 1200 1500 1200 3130
230 230 230 230 230
1230 2860 4820 3360 230

South Elevation
S-01

East Elevation
S-02

230
4230 4690
7650
230
1000
230
2960
1730
230

Notes

General

1. CONCRETE IN SURFACE BEDS AND STRIP FOOTING OF GRADE ST4/20
2. CONCRETE IN RING BEAM AND REINFORCED CONCRETE SLAB OF GRADE C25/20
3. PE FOIL (GAUGE 1000) TO BE PLACED BENEATH SURFACE BEDS
4. 50 mm BLINDING TO BE POURED BENEATH SURFACE BEDS
5. MESH REINFORCEMENT (A142, MASS 0.22 KG/M2) TO BE PLACED IN SURFACE BEDS AND APRON
6. GROUND FOR FOUNDATION TO BE INSPECTED BY ENGINEER
4. STRIP FOOTING TO BE POURED AGAINST NATURAL GROUND
5. GRAVEL UNDER SURFACE BED TO BE COMPACTED TO 95% MOD ASTHOO
6. ONLY PRE-TREATED WOOD TO BE USED FOR ROOF MEMBERS AND DOOR
7. PRE-PAINTED CORRUGATED IRON ROOF SHEETS TO BE GALVANIZED AND OF GAUGE 28
8. DPC TO PLACED IN FIRST BRICK COURSE OVER GROUND LEVEL
9. WALLS PLASTERED INSIDE AND OUTSIDE, CEMENT SAND RATIO 1:3
10. 150 x 150 mm WALL TILES UP TO 1800 mm ABOVE FLOOR LEVEL
11. ALL OUTLETS FOR SHOWERS, URINALS, ETC SHALL BE EQUIPPED WITH A FLOOR TRAP
12. ALL INTERNAL PLUMBING TO BE HIDDEN BEHIND THE PLASTER, MAIN INTERNAL PIPE DN 20 GI AND BRANCHES TO SINKS AND TAPS TO BE DN 15 GI.
13. EVERY TOILET SHALL BE EQUIPPED WITH A TAP

00				
REV.	BY.	REVISIONS	SIGN	DATE

CLIENT:
REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE
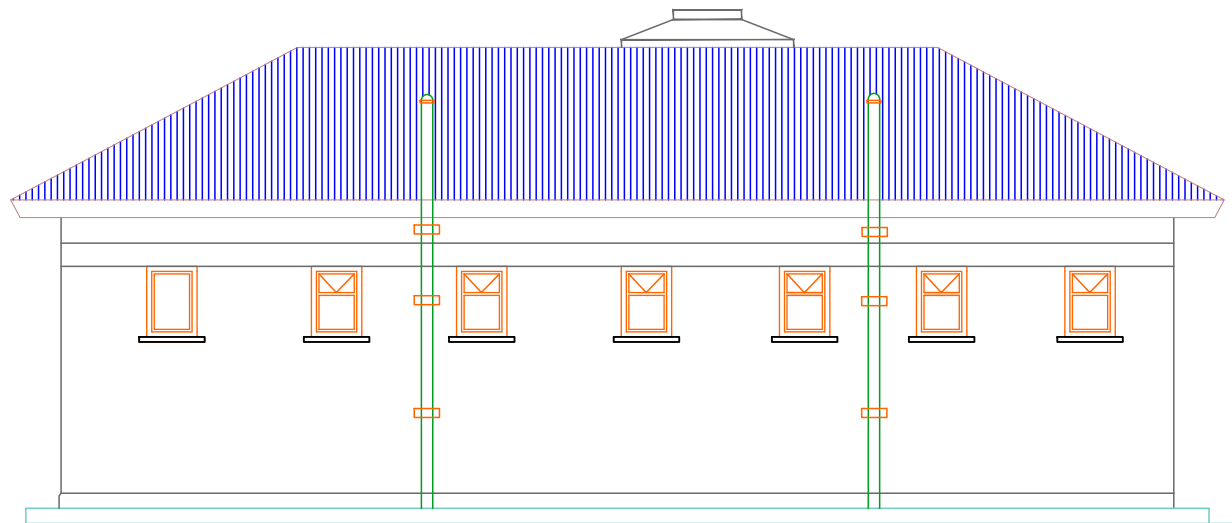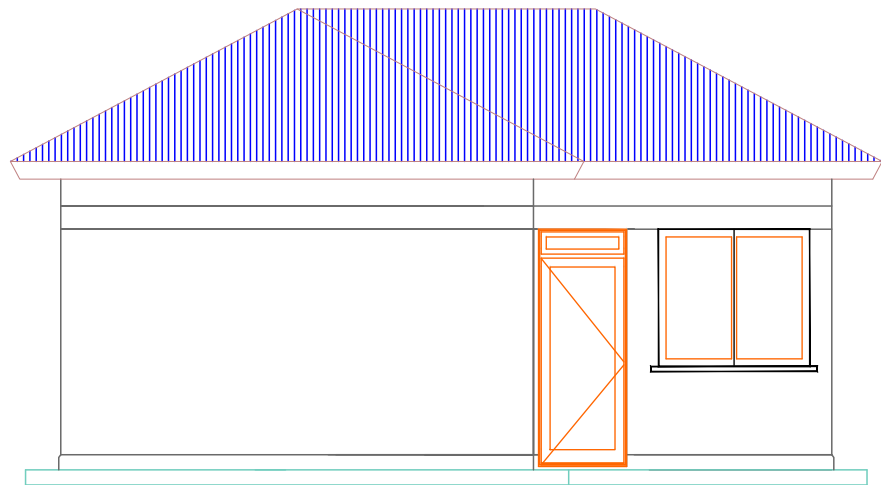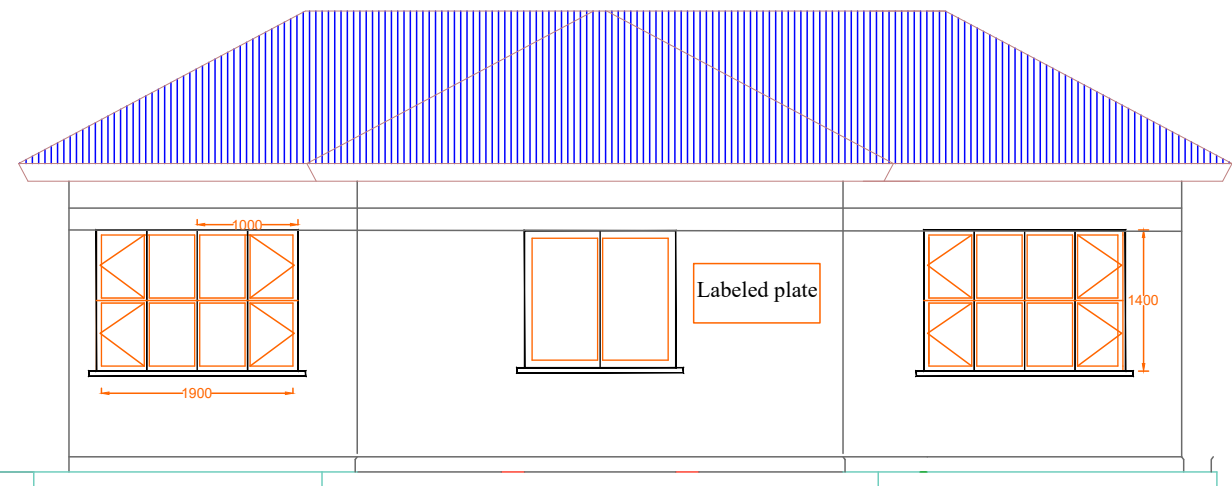
CONSULTANT:
saman
Saman Corp.
CHEIL
AWE Engineers

TITLE:
PUBLIC TOILETS
FLOOR PLAN

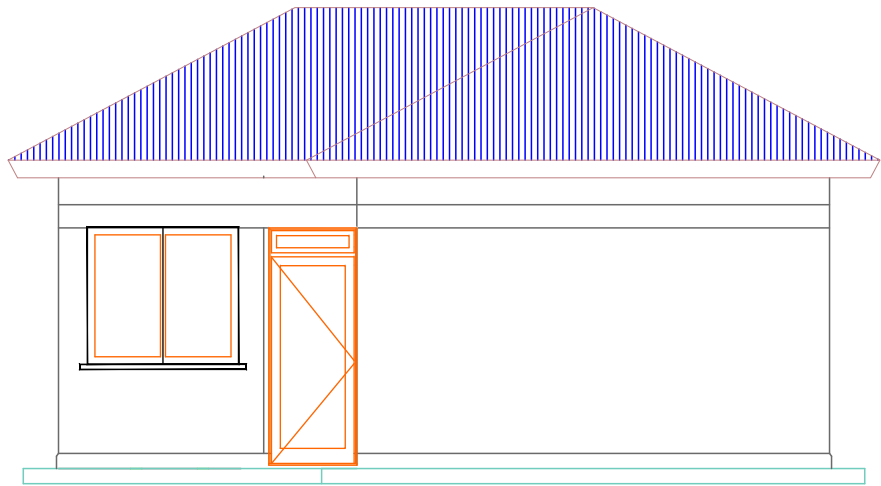| Drawn by: Ceaser Kisa W	Approved by:
Checked by: Ronald S.M.	Dongwoon OH
Scale: As Indicated	Date: DEC 2021
Drawing No.:	IWMDP/MBA/ 19-A-001
Sheet No.: 1 of 3	Format: A3

North Elevation

West Elevation

South Elevation

Labeled plate

1000

1900

1400

East Elevation

REV.	BY.	REVISIONS	SIGN	DATE
00				

CLIENT:

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:

CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

saman
Saman Corp.

CHEIL

AWE Engineers

TITLE:

PUBLIC TOILETS

ELEVATIONS

Drawn by: Ceaser Kisa W	Approved by: Dongwoon OH
Checked by: Ronald S.M.	
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/ 19-A-001	
Sheet No.: 2 of 3	Format: A3

Section S-01

Roof Details
28° roof pitch
Pre-painted iron sheet 28 gauge on 75mm x50mm purlin on 100mmx50mm rafters and struts on 150mmx50mm tie beam on 100mmx75mm wall plate and concrete ceiling

500 liter tank

40mm thick metal rails
50mm thick R.C slab to 2% slop on both direction

230x 230 ring beam

Light
Window
Mirror
Mirror
Soap
Toilet paper holder
Arm support
Arm support
wash hand Basins
Sitting pan
450 floor slab
Splash apron
imported marrum fill
230mm plinth wall
imported hard core fill
230mm thick mass concrete
50mm thick blinding layer

3000 3000
550
550
800
400
250
550
400
230
50
690 690 690
1337
1000
1500
1075

Section S-02

Section M-M

Arm support
800
550
230mm thick mass concrete foundation
50mm thick blinding layer
690 690 690 690
230

REPUBLIC OF UGANDA

VOLUME 4-2: BOOK OF DRAWINGS
(ABLUTION BLOCK)

INTEGRATED WATER MANAGEMENT AND DEVELOPMENT PROJECT (IWMDP)

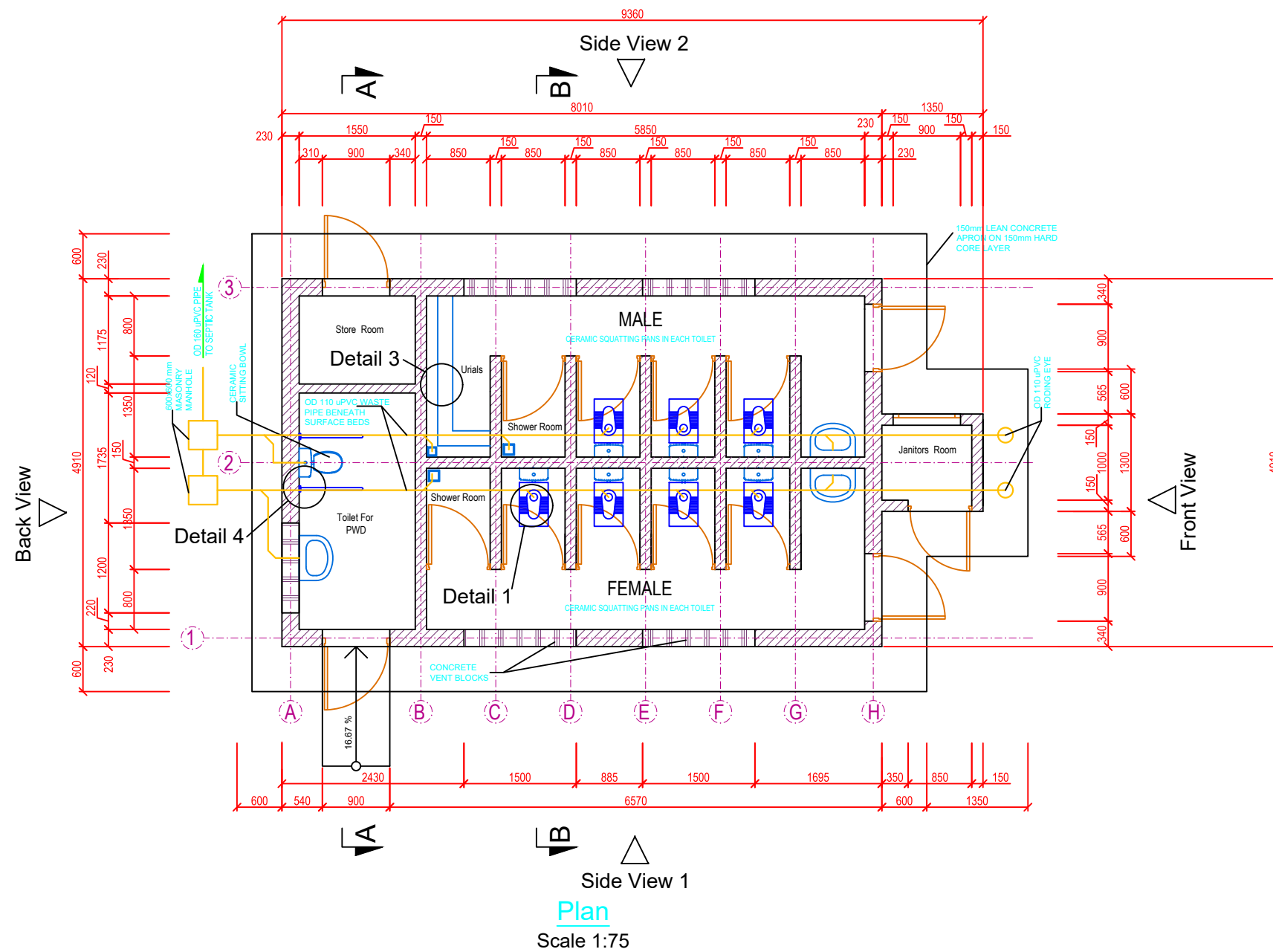## CONSTRUCTION OF BUTALEJA AND BUSOLWE WATER SUPPLY AND SANITATION SYSTEM
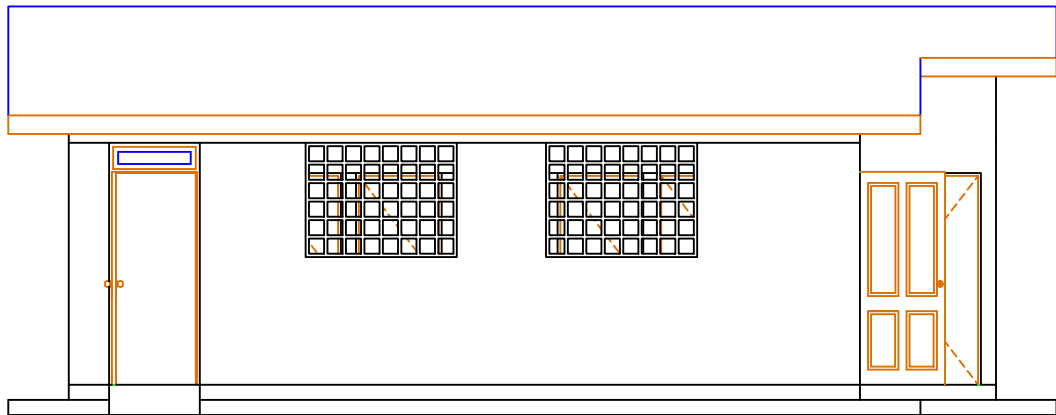
CONTRACT NO: MWE/WRKS/21-22/00005/2

SUBMITTED BY:

saman
Saman Corp.

CHEIL
ENGINEERING

JULY 2022

Plan
Scale 1:75

Side View 2

Side View 1

Back View

Front View

MALE
CERAMIC SQUATTING PANS IN EACH TOILET

FEMALE
CERAMIC SQUATTING PANS IN EACH TOILET

Store Room

Urials

Shower Room

Shower Room

Toilet For PWD

Janitors Room

Detail 3

Detail 4

Detail 1

150mm LEAN CONCRETE APRON ON 150mm HARD CORE LAYER

OD 110 uPVC WASTE PIPE BENEATH SURFACE BEDS

OD 160 uPVC PIPE TO SEPTIC TANK

MASONARY MAN-HOLE

CERAMIC SITTING BOWL

OD 110 uPVC RODDING EYE

CONCRETE VENT BLOCKS

Section A-A
Scale 1:75

GALVANIZED ROOF SHEETS
PURLINS 75x50
RAFTERS 100x50
TIE BEAMS 150x50
STRUTS 100x150
WALL PLATE 100x100

PAINTED SOFTBOARD CEILING

Detail 2

150mm REINFORCED CONCRETE APRON

150mm REINFORCED CONCRETE SURFACE BEDS

300mm HARD-CORE LAYER

Section B-B
Scale 1:75

GALVANIZED ROOF SHEETS
PURLINS 75x50
RAFTERS 100x50
TIE BEAMS 150x50
STRUTS 100x150
WALL PLATE 100x100

PAINTED SOFTBOARD CEILING

CONCRETE VENT BLOCKS
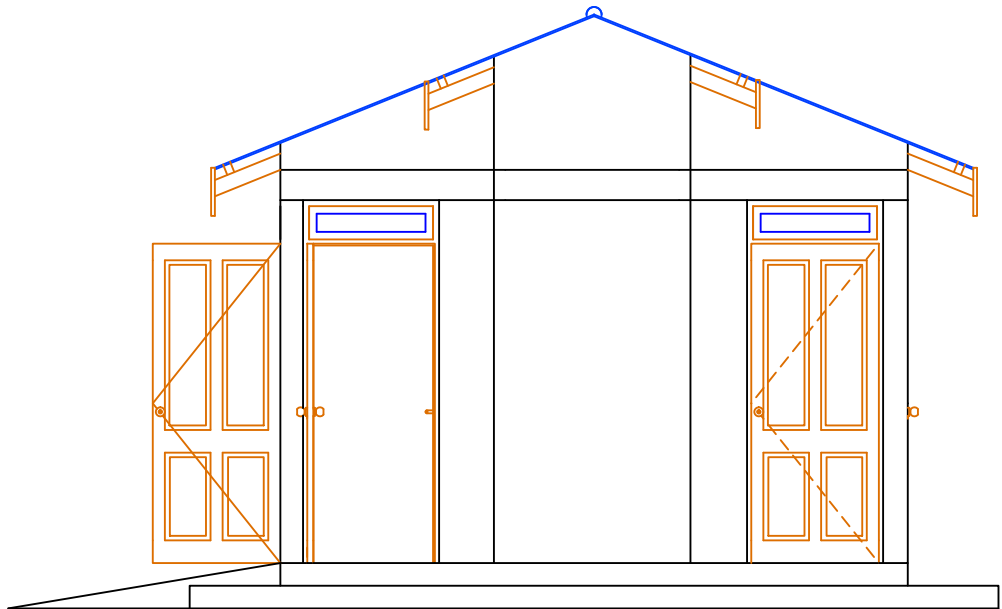
150mm REINFORCED CONCRETE APRON

300mm HARD-CORE LAYER

Notes

General

1. CONCRETE IN SURFACE BEDS AND STRIP FOOTING OF GRADE ST4/20
2. CONCRETE IN RING BEAM AND REINFORCED CONCRETE SLAB OF GRADE C25/20
3. PE FOIL (GAUGE 1000) TO BE PLACED BENEATH SURFACE BEDS
4. 50 mm BLINDING TO BE POURED BENEATH SURFACE BEDS
5. MESH REINFORCEMENT (A142, MASS 0.22 KG/M2) TO BE PLACED IN SURFACE BEDS AND APRON
6. GROUND FOR FOUNDATION TO BE INSPECTED BY ENGINEER
4. STRIP FOOTING TO BE POURED AGAINST NATURAL GROUND
5. GRAVEL UNDER SURFACE BED TO BE COMPACTED TO 95% MOD ASTHOO
6. ONLY PRE-TREATED WOOD TO BE USED FOR ROOF MEMBERS AND DOOR
7. PRE-PAINTED CORRUGATED IRON ROOF SHEETS TO BE GALVANIZED AND OF GAUGE 28
8. DPC TO PLACED IN FIRST BRICK COURSE OVER GROUND LEVEL
9. WALLS PLASTERED INSIDE AND OUTSIDE, CEMENT SAND RATIO 1:3
10. 150 x 150 mm WALL TILES UP TO 1800 mm ABOVE FLOOR LEVEL
11. ALL OUTLETS FOR SHOWERS, URINALS, ETC SHALL BE EQUIPPED WITH A FLOOR TRAP
12. ALL INTERNAL PLUMBING TO BE HIDDEN BEHIND THE PLASTER, MAIN INTERNAL PIPE DN 20 GI AND BRANCHES TO SINKS AND TAPS TO BE DN 15 GI.
13. EVERY TOILET SHALL BE EQUIPPED WITH A TAP

REV.	BY.	REVISIONS	SIGN	DATE
00				

CLIENT:

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:

CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

saman
Saman Corp.

CHEIL

AWE Engineers

TITLE:

ABLUTION BLOCK

PLAN & SECTIONS

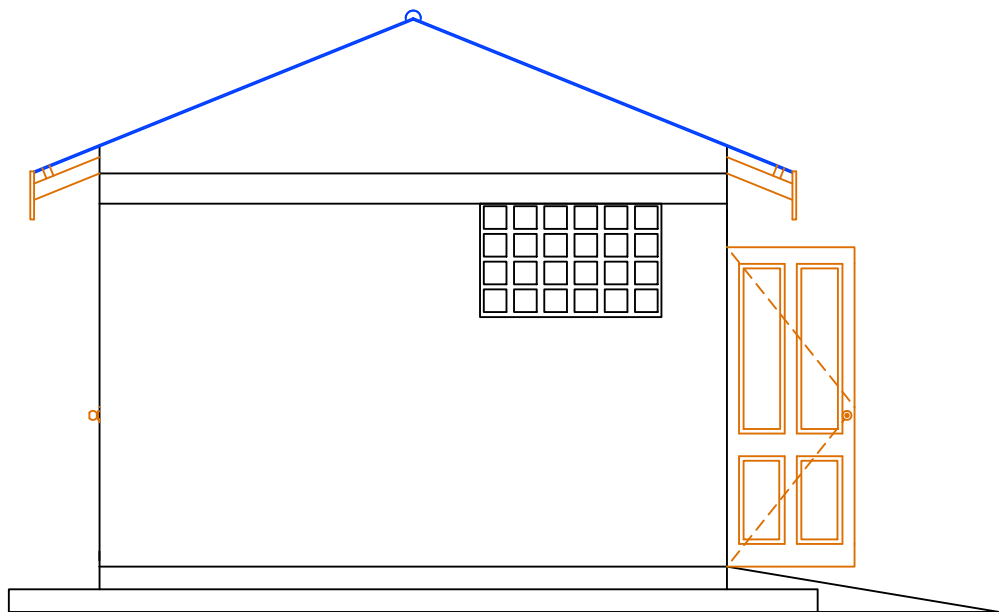|	
Drawn by: Ceaser Kisa W	Approved by:
Checked by: Ronald S.M.	Dongwoon OH
Scale: As Indicated	Date: DEC 2021
Drawing No.:	IWMDP/MBA/ 19-A-001
Sheet No.: 1 of 3	Format: A3

Side View 1
Scale 1:75

Front View
Scale 1:75
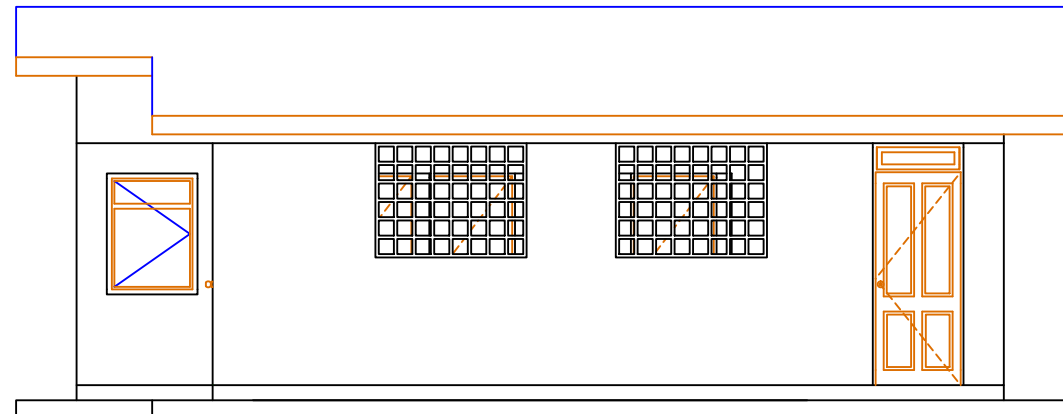
Side View 2
Scale 1:75

Back View
Scale 1:75

Notes

General

1. CONCRETE IN SURFACE BEDS AND STRIP FOOTING OF GRADE ST4/20
2. CONCRETE IN RING BEAM AND REINFORCED CONCRETE SLAB OF GRADE C25/20
3. PE FOIL (GAUGE 1000) TO BE PLACED BENEATH SURFACE BEDS
4. 50 mm BLINDING TO BE POURED BENEATH SURFACE BEDS
5. MESH REINFORCEMENT (A142, MASS 0.22 KG/M2) TO BE PLACED IN SURFACE BEDS AND APRON
6. GROUND FOR FOUNDATION TO BE INSPECTED BY ENGINEER
4. STRIP FOOTING TO BE POURED AGAINST NATURAL GROUND
5. GRAVEL UNDER SURFACE BED TO BE COMPACTED TO 95% MOD ASTHOO
6. ONLY PRE-TREATED WOOD TO BE USED FOR ROOF MEMBERS AND DOOR
7. PRE-PAINTED CORRUGATED IRON ROOF SHEETS TO BE GALVANIZED AND OF GAUGE 28
8. DPC TO PLACED IN FIRST BRICK COURSE OVER GROUND LEVEL
9. WALLS PLASTERED INSIDE AND OUTSIDE, CEMENT SAND RATIO 1:3
10. 150 x 150 mm WALL TILES UP TO 1800 mm ABOVE FLOOR LEVEL
11. ALL OUTLETS FOR SHOWERS, URINALS, ETC SHALL BE EQUIPPED WITH A FLOOR TRAP
12. ALL INTERNAL PLUMBING TO BE HIDDEN BEHIND THE PLASTER, MAIN INTERNAL PIPE DN 20 GI AND BRANCHES TO SINKS AND TAPS TO BE DN 15 GI.
13. EVERY TOILET SHALL BE EQUIPPED WITH A TAP

REV.	BY.	REVISIONS	SIGN	DATE
00				

CLIENT:

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:

CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

saman
Saman Corp.

CHEIL

AWE Engineers

TITLE:

ABLUTION BLOCK

ELEVATIONS

Drawn by: Ceaser Kisa W	Approved by:	
Checked by: Ronald S.M.	Dongwoon OH	
Scale: As Indicated	Date: DEC 2021	
Drawing No.: IWMDP/MBA/ 19-A-001		
Sheet No.: 1 of 3	Format: A3	