

# ENGINEERING DRAWINGS

**FOR**

**ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND  
YOBE (BAY) STATES**

*Service Contract No: YOL SC 14*

**GANYE - GOVERNMENT PRIMARY AND SECONDARY SCHOOL SANGASSUMI**

CLIENT:



**USAID/MERCY CORPS**

CONSULTANTS:



**KONSADEM ASSOCIATES LTD**

*Engineers & Consultants*

30, Onireke Layout,

P.M. B. 5478, Ibadan, NIGERIA.

E-mail: [konsadem@gmail.com](mailto:konsadem@gmail.com)

**2ML CONSULTING NIGERIA LTD**

Office 8, B1-Close Off 69(A) Road

Gwarinpa Abuja,

**MAY, 2021.**

EXISTING BOREHOLE

FENCE

STORAGE  
See Elevation  
Tank Details

To Reticulation

FENCE

FENCE

1 NO. NEW SOLAR POWERED BOREHOLE (Location to be determined by Geophysical survey)

KERBS STONE

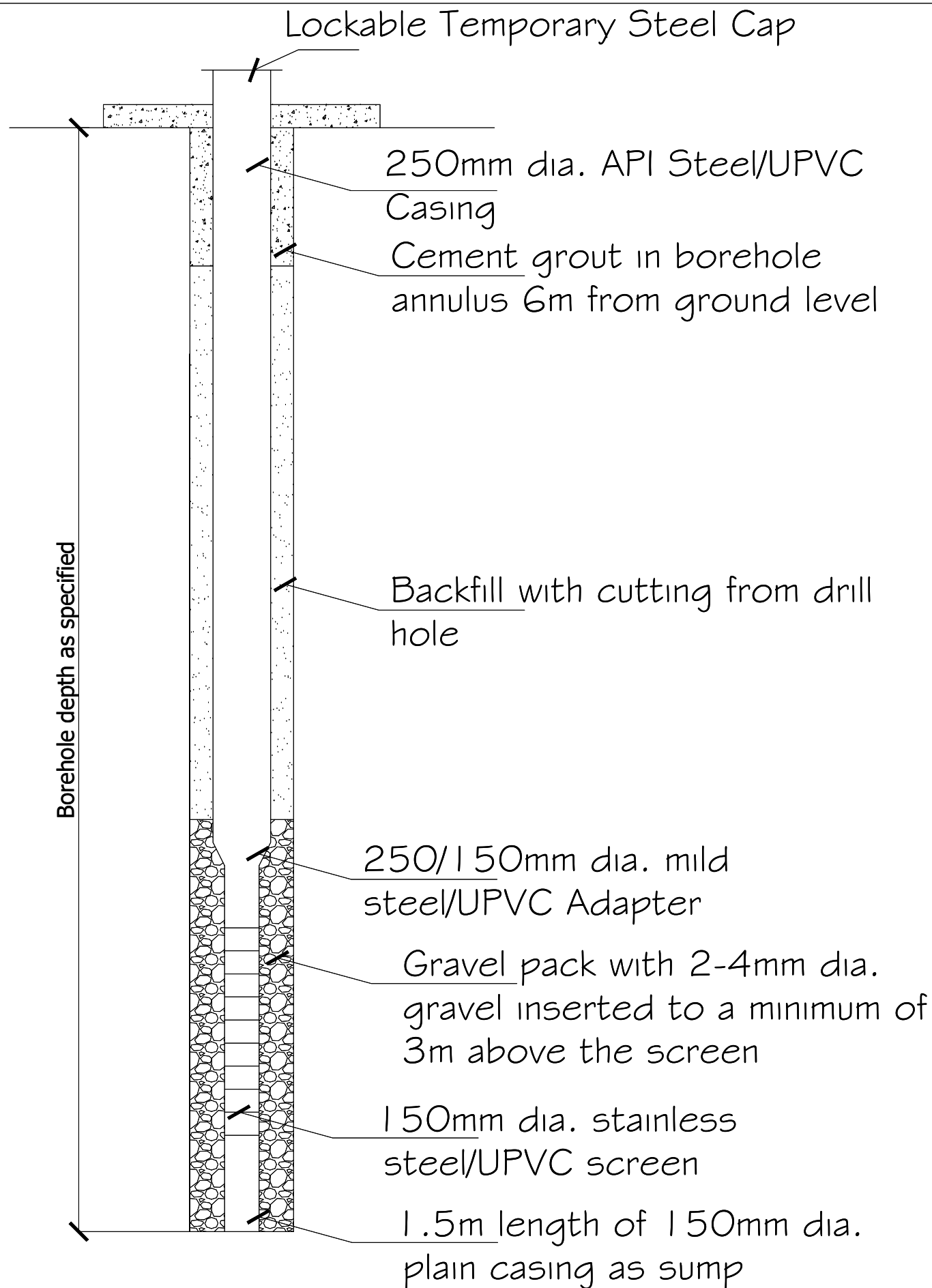
GRANITE CHIPPINGS

GATE

KERBS STONE

FENCE

Mark : Date : Made by : Revision	CLIENT:	USAID/MERCY CORPS	PROJECT	SMALL TOWN	DRAWING TITLE	Designed: Engr Soji	STAMP
	CONSULTANT	<b>KONSADEM ASSOCIATES LTD</b> <i>Engineers &amp; Consultants</i> 30, Onireke Layout, P.M. B. 5478, Ibadan, NIGERIA. E-mail: <a href="mailto:konsadem@gmail.com">konsadem@gmail.com</a>	<b>2ML CONSULTING NIGERIA LTD</b> Office 8, B1-Close Off 69(A) Road Gwarinpa Abuja.	<b>ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YOBE (BAY) STATES</b> Service Contract No: YOL SC 14	GANYE	GOVERNMENT PRIMARY AND SECONDARY SCHOOL, SANGASSUMI. SCHEME LAYOUT	
			STATE		DRAWING NO.	SCALE	Ref. No:
			ADAMAWA		BB/TP/O2		USAID/BAY/AD-GAN



Mark :	Date :	Made by :	Revision
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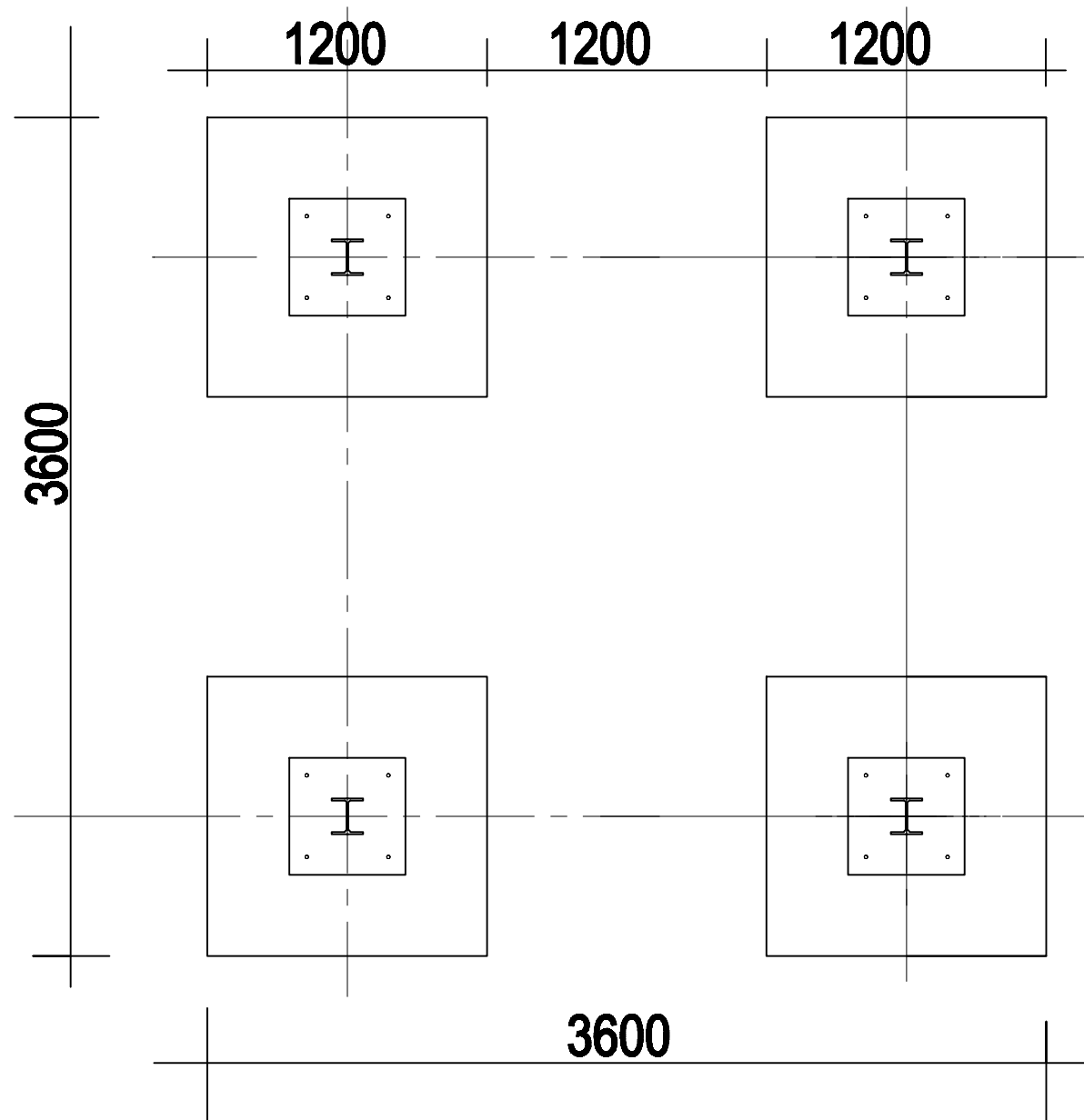
CLIENT:	USAID/MERCY CORPS
CONSULTANT	<b>KONSADEM ASSOCIATES LTD</b> Engineers & Consultants 30, Onireke Layout, P.M. B. 5478, Ibadan, NIGERIA. E-mail: <a href="mailto:konsadem@gmail.com">konsadem@gmail.com</a>
	<b>ZML CONSULTING NIGERIA LTD</b> Office 8, B1-Close Off 69(A) Road Gwarinpa Abuja.

PROJECT	ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YOBE (BAY) STATES Service Contract No: YOL SC 14
STATE	ADAMAWA

SMALL TOWN	GANYE
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DRAWING TITLE	GOVERNMENT PRIMARY AND SECONDARY SCHOOL, SANGASSUMI. BOREHOLE DETAILS
DRAWING NO.	BB/TP/01
SCALE	

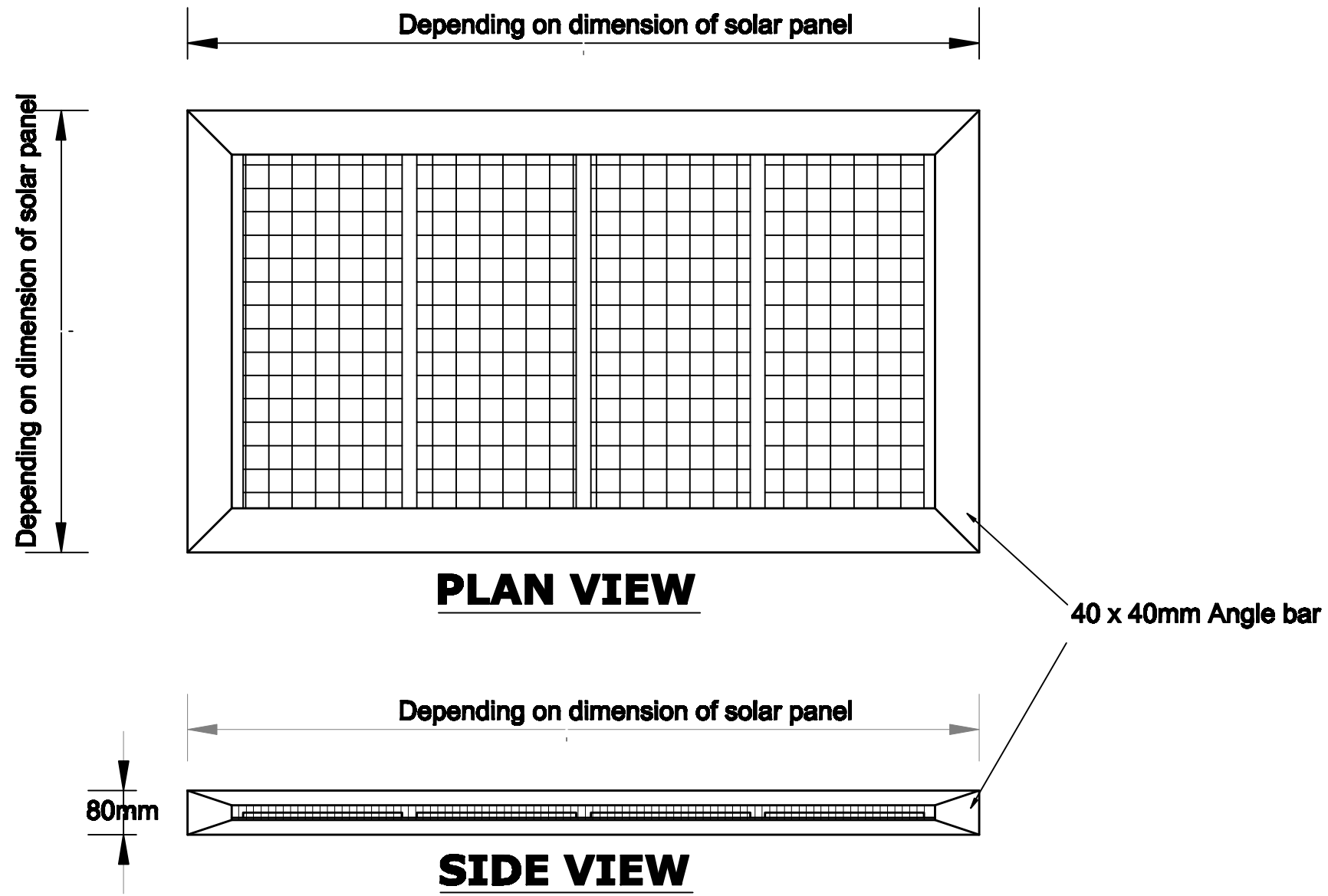
Designed:	Engr Soji	STAMP
Drawn :	Damola	
Traced :		
Checked :	Engr Soji	
Date :	MAY 2021	
Ref. No:	USAID/BAY/AD-GAN	



## TANK FOOTING PLAN VIEW

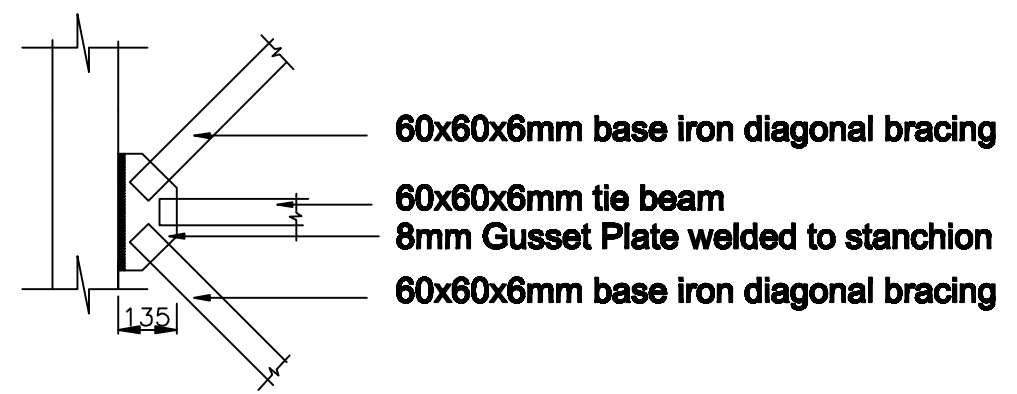
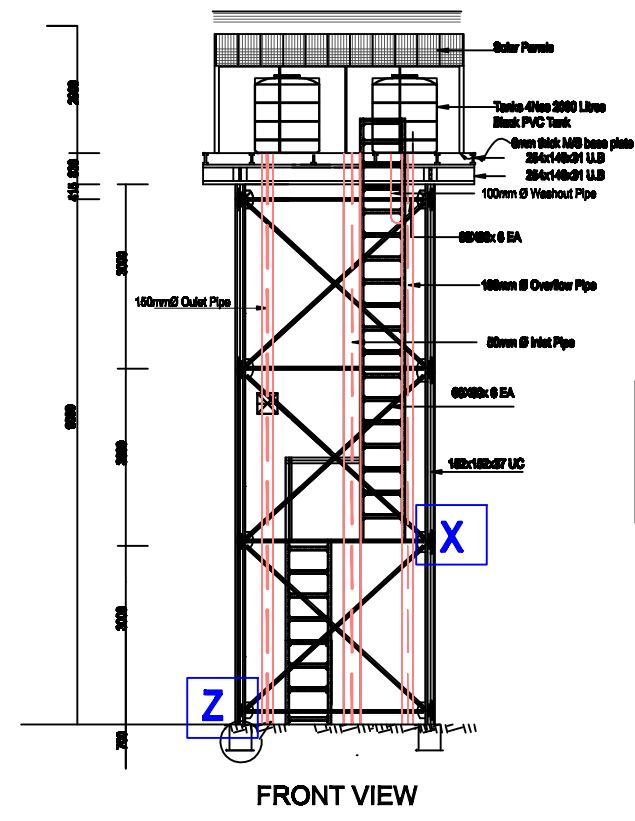
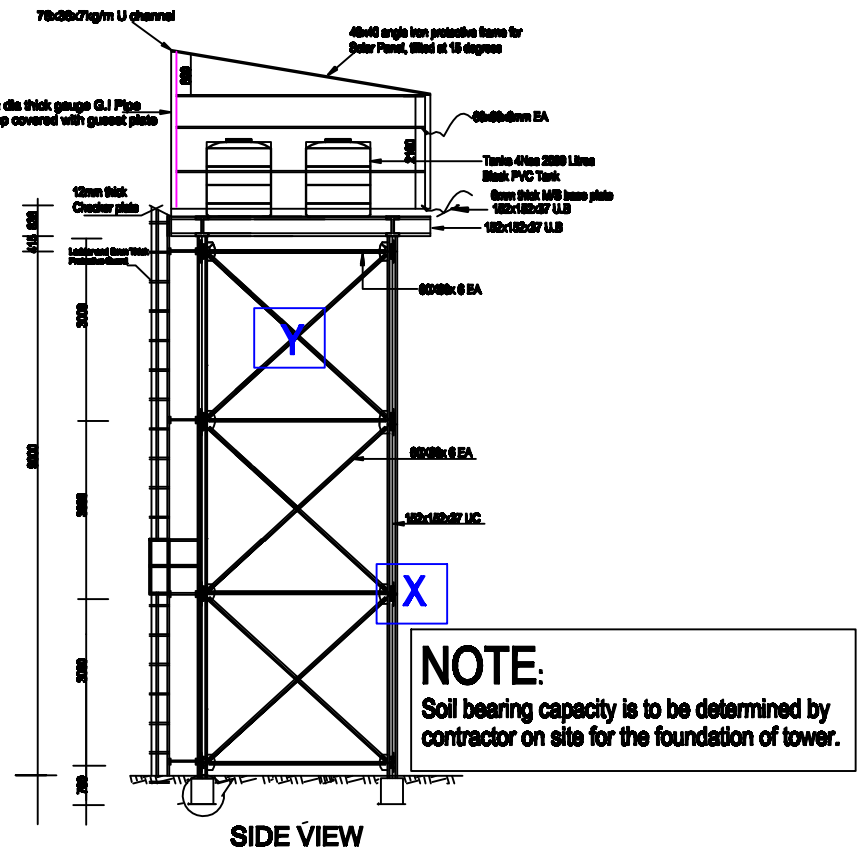
Mark : Date : Made by : Revision	CLIENT:	USAID/MERCY CORPS		PROJECT	SMALL TOWN	DRAWING TITLE	Designed: Engr. Soji	STAMP
	CONSULTANT	 <b>KONSADEM ASSOCIATES LTD</b> Engineers & Consultants 30, Onitsha Layout, P.M. B. 6478, Ibadan, NIGERIA. E-mail: konsadem@gmail.com		<b>2ML CONSULTING NIGERIA LTD</b> Office 6, 81-Class Off 68(A) Road Gwarinpa Abuja.	<b>ENGINEERING DESIGN OF WASH          FACILITIES ACROSS BORNO, ADAMAWA          AND YOBE (BAY) STATES</b> Service Contract No: YOL SC 14	GANGARASO SANGASSUMI	<b>GOVT PRY &amp; SEC SCH SANGASSUMI          ELEVATED STORAGE TANK (8 Cu.m)          TANK FOOTING DETAILS</b>	
				STATE		DRAWING NO. SCALE	Ref. No:	
				ADAMAWA		BB/BD/01	USAID/BAY/BU-00	



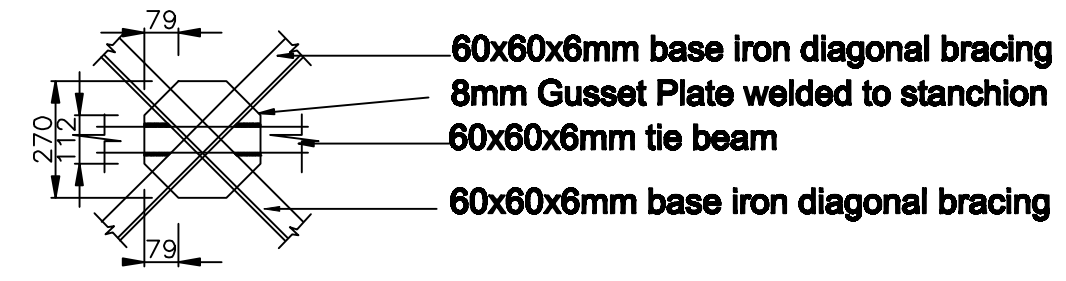


**PROTECTIVE FRAME FOR SOLAR PANEL**

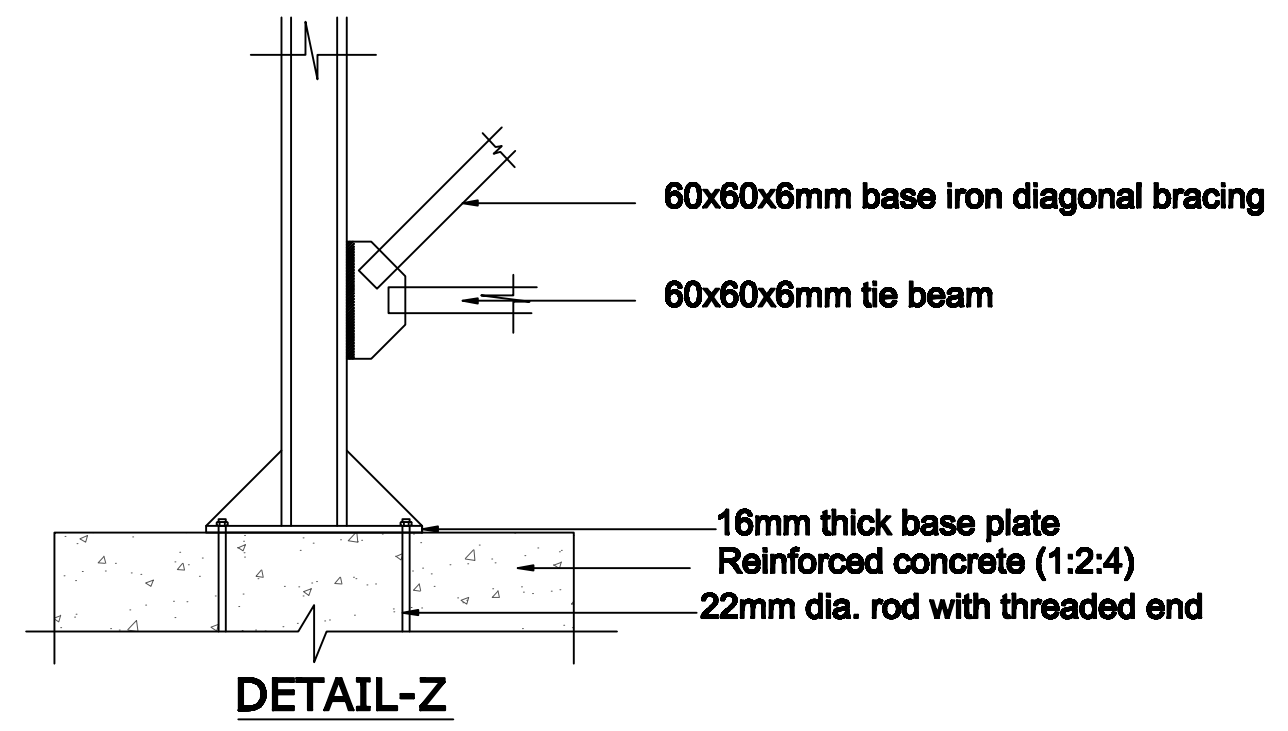
Mark : Date : Made by : Revision	CLIENT:	USAID/MERCY CORPS		PROJECT	SMALL TOWN	DRAWING TITLE	Designed: Engr Soy	STAMP
	CONSULTANT	 <b>KONSADEM ASSOCIATES LTD</b> Engineers & Consultants 20, Onitsha Layout, P.M. B. 6478, Ibadan, NIGERIA. E-mail: konsadem@gmail.com		<b>ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YOBE (BAY) STATES</b> Service Contract No: YOL SC 14	GANGARASO SANGASSUMI	GOVT PRY & SEC SCH SANGASSUMI ELEVATED STORAGE TANK (6 Cum) PROTECTIVE FRAME FOR SOLAR PANEL	Drawn : Damola Traced : Checked : Engr Soy Date : MAY 2021	
				STATE		DRAWING NO. SCALE	Ref. No:	
				ADAMAWA		BB/BD/02	USAID/BAY/BU-00	



**DETAIL-X**

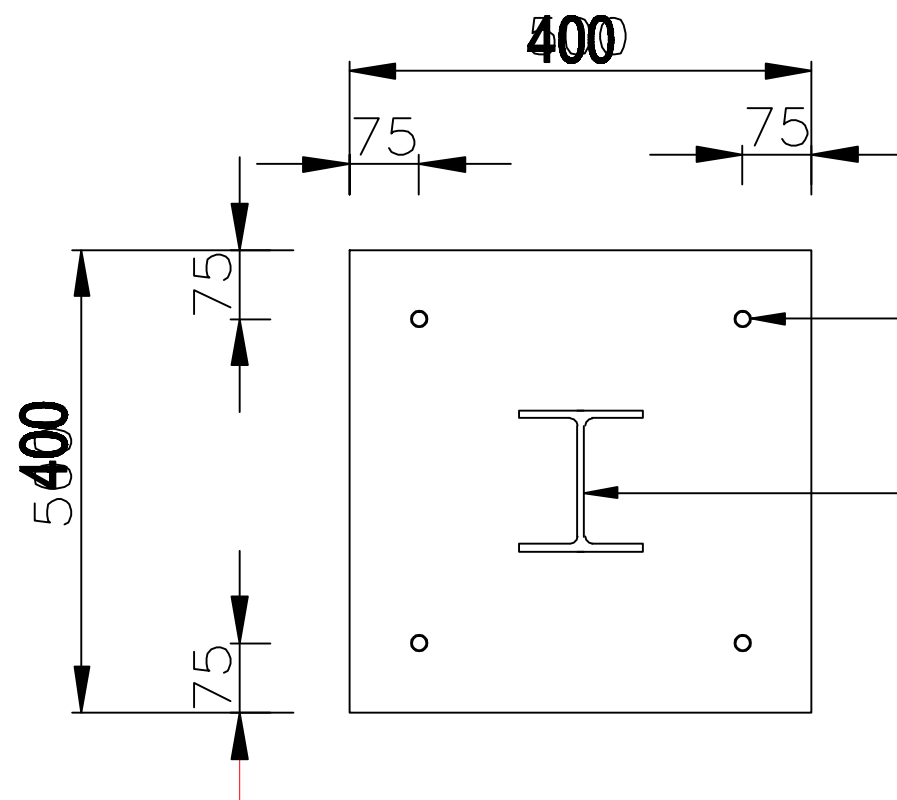
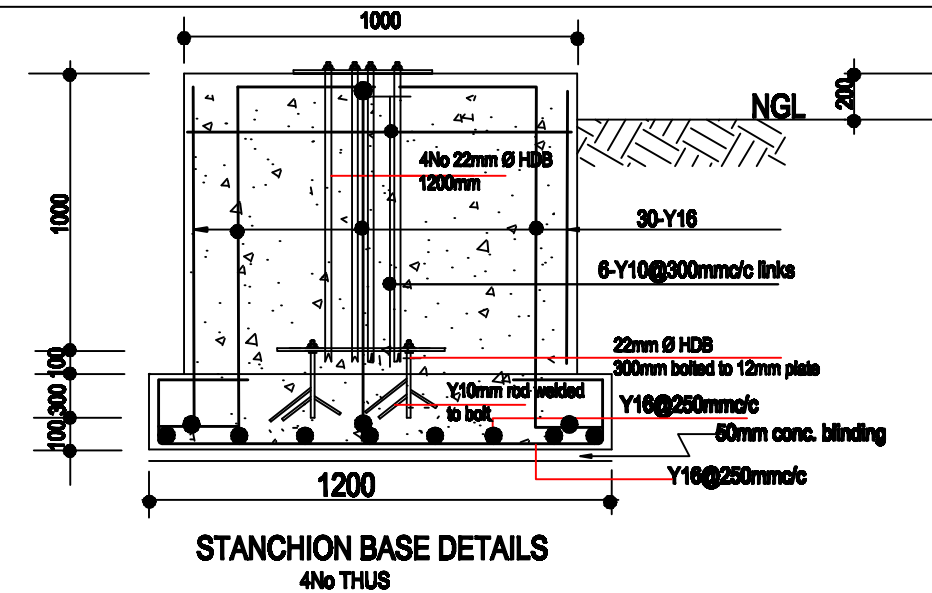
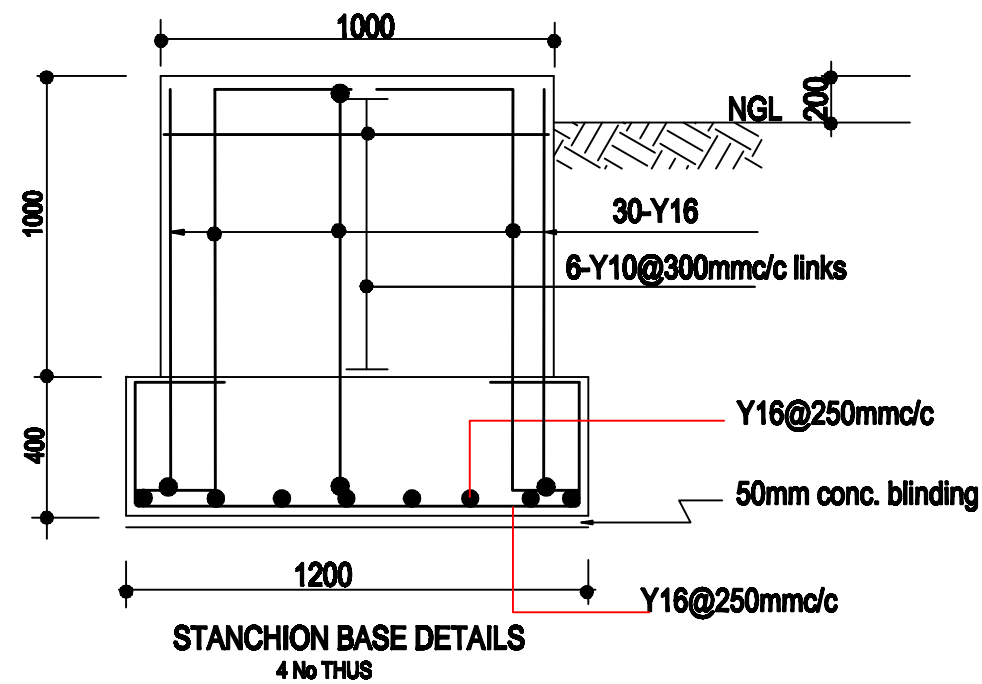


**DETAIL-Y**



**DETAIL-Z**

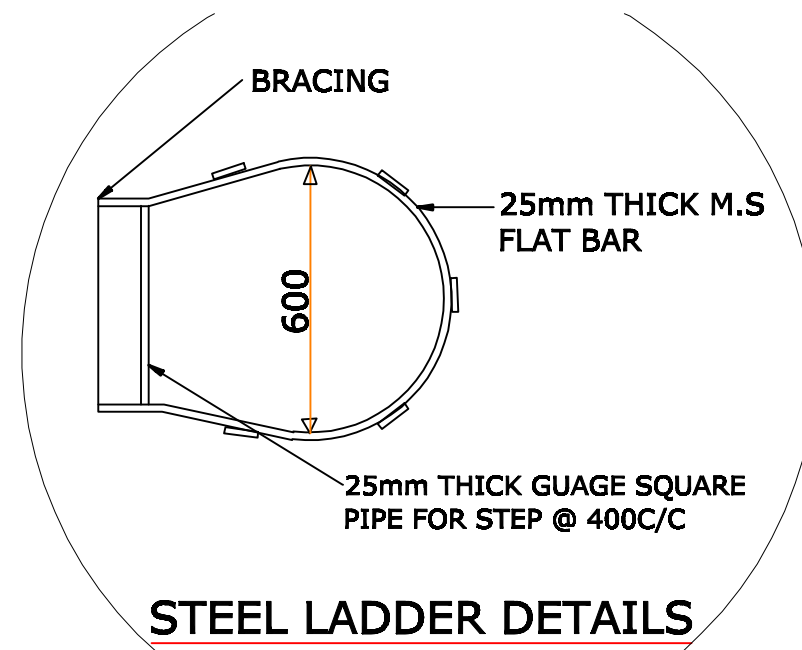
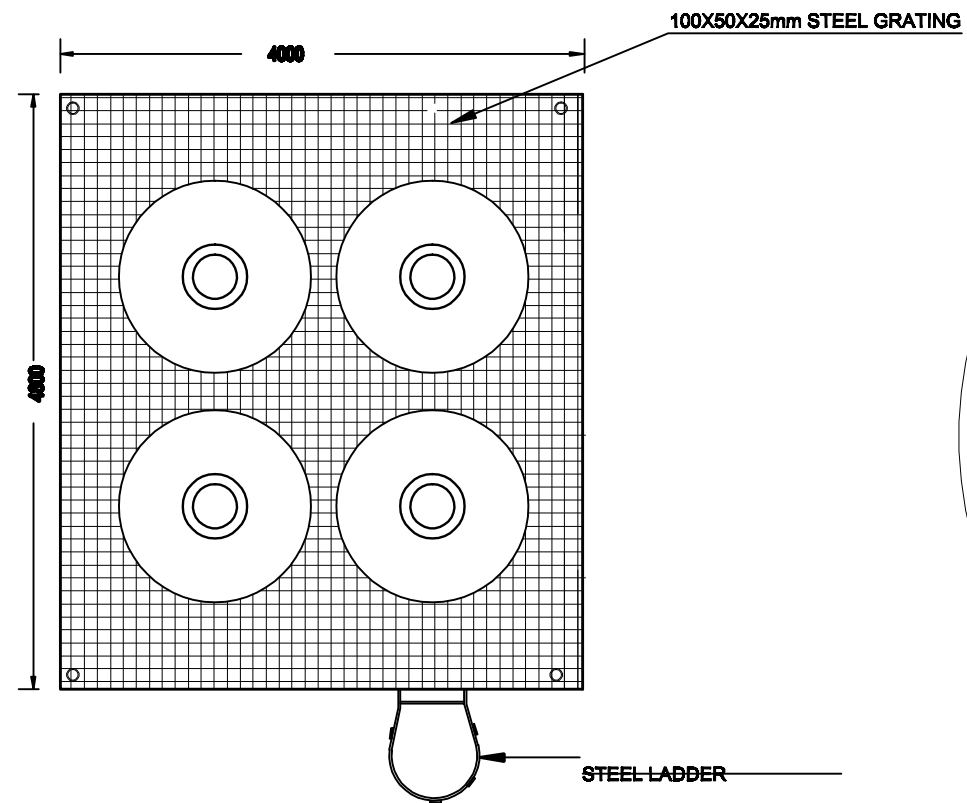
Mark : Date : Made by : Revision	CLIENT:	USAID/MERCY CORPS		PROJECT	SMALL TOWN	DRAWING TITLE	Designed: Engr Soy	STAMP
	CONSULTANT	<b>KONSADAM ASSOCIATES LTD</b> Engineers & Consultants 30, Onitsha Layout, P.M. B. 6478, Ibadan, NIGERIA. E-mail: konsadam@gmail.com		<b>ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YOBE (BAY) STATES</b> Service Contract No: YOL SC 14	GANGARASO SANGASSUMI	GOVT PRY & SEC SCH SANGASSUMI ELEVATED STORAGE TANK (8 Cu.m) TANK AND TOWER DETAILS	Drawn : Damola Traced : Checked : Engr Soy Date : MAY 2021	
				STATE		DRAWING NO. SCALE	Ref. No:	
				ADAMAWA		BB/BD/O3	USAID/BAY/BU-00	



4 N0s. 22.5mm dia. hole  
 4 N0s. 22mm dia. holedown bolt  
 152X152x37 UC on 16mm base plate

## BASE PLATE DETAILS

Mark : Date : Made by : Revision	CLIENT:	USAID/MERCY CORPS	PROJECT	SMALL TOWN	DRAWING TITLE	Designed: Engr Soyj	STAMP
	CONSULTANT	<b>KONSADEM ASSOCIATES LTD</b> Engineers & Consultants 30, Oshoro Layout, P.M. S. 8478, Ibadan, NIGERIA. E-mail: konsadem@gmail.com	<b>2ML CONSULTING NIGERIA LTD</b> Office 8, E1-Close Off 68(A) Road Gwarinpa Abuja.	GANGARASO SANGASSUMI	GOVT PRY & SEC SCH SANGASSUMI ELEVATED STORAGE TANK & Cum) TANK FOOTING DETAILS	Drawn : Damola Traced : Checked : Engr Soyj Date : MAY 2021	
			STATE		DRAWING NO.	Ref. No:	
			ADAMAWA		BB/BD/04	USAID/BAY/BU-00	





Mark:	Date:	Made by:	Revision

CLIENT: USAID/MERCY CORPS

CONSULTANT: **KONSADEM ASSOCIATES LTD**  
Engineers & Consultants  
30, Onitsha Layout,  
P.M. B. 5473, Ibadan, NIGERIA.  
E-mail: [konsadem@gmail.com](mailto:konsadem@gmail.com)

**2ML CONSULTING NIGERIA LTD**  
Office 9, 81-Clase Off 89(A) Road  
Gwarimpa Abija.

PROJECT: **ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YOBE (BAY) STATES**  
Service Contract No: YOL SC 14

STATE: ADAMAWA

SMALL TOWN: GANGARASO SANGASSUMI

DRAWING TITLE: GOVT PRY & SEC SCH SANGASSUMI ELEVATED STORAGE TANK (8 Cum) STEEL LADDER DETAILS

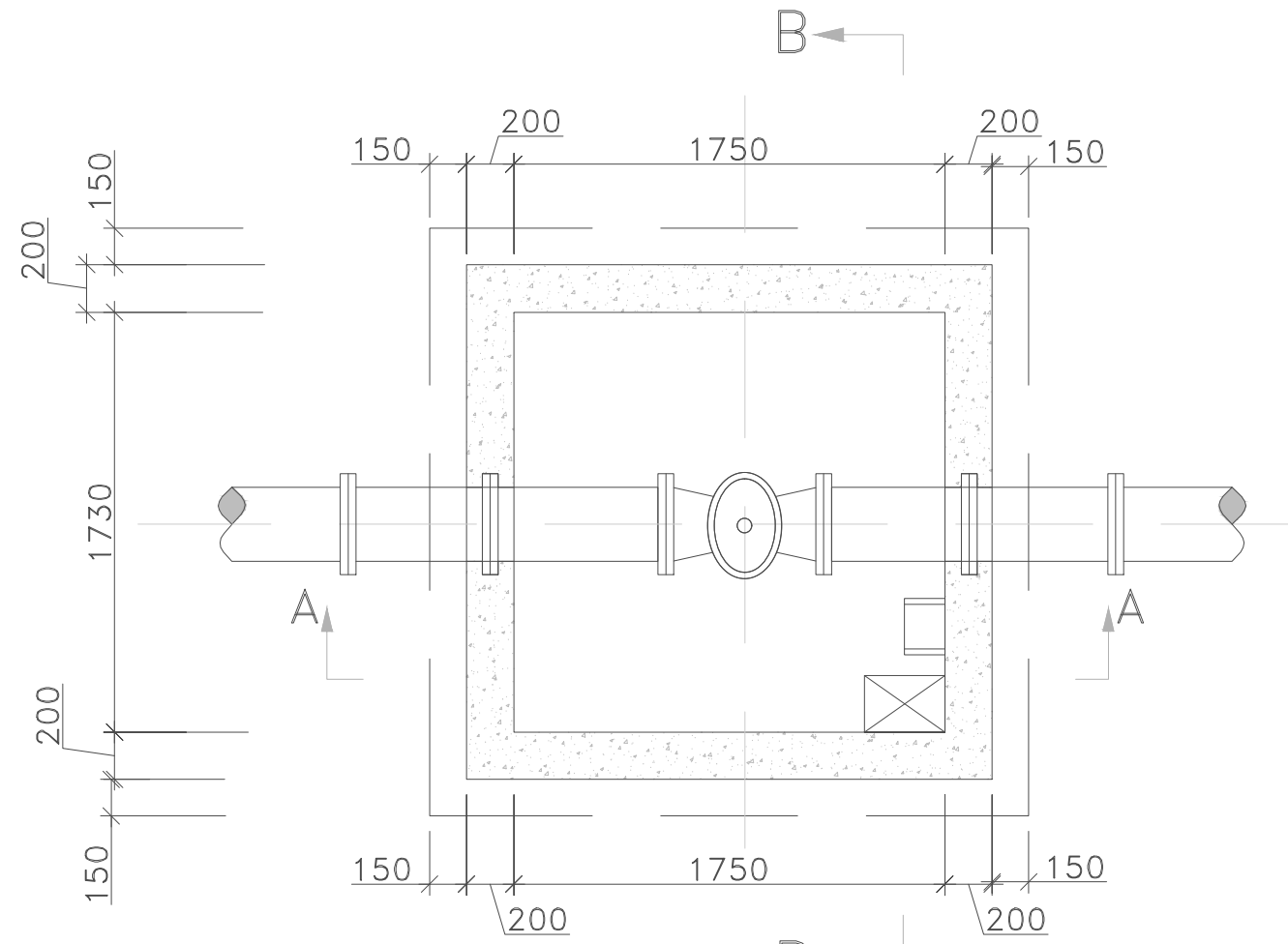
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SCALE:

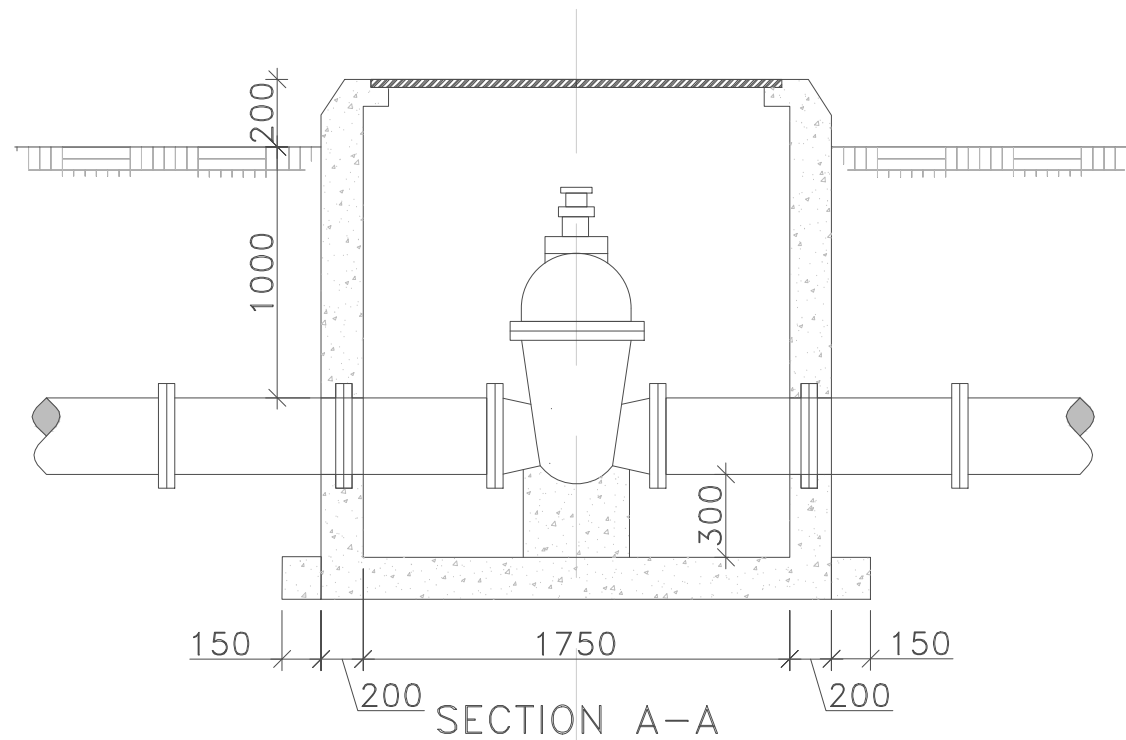
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Date: MAY 2021

Ref. No: USAID/BAY/BU-00

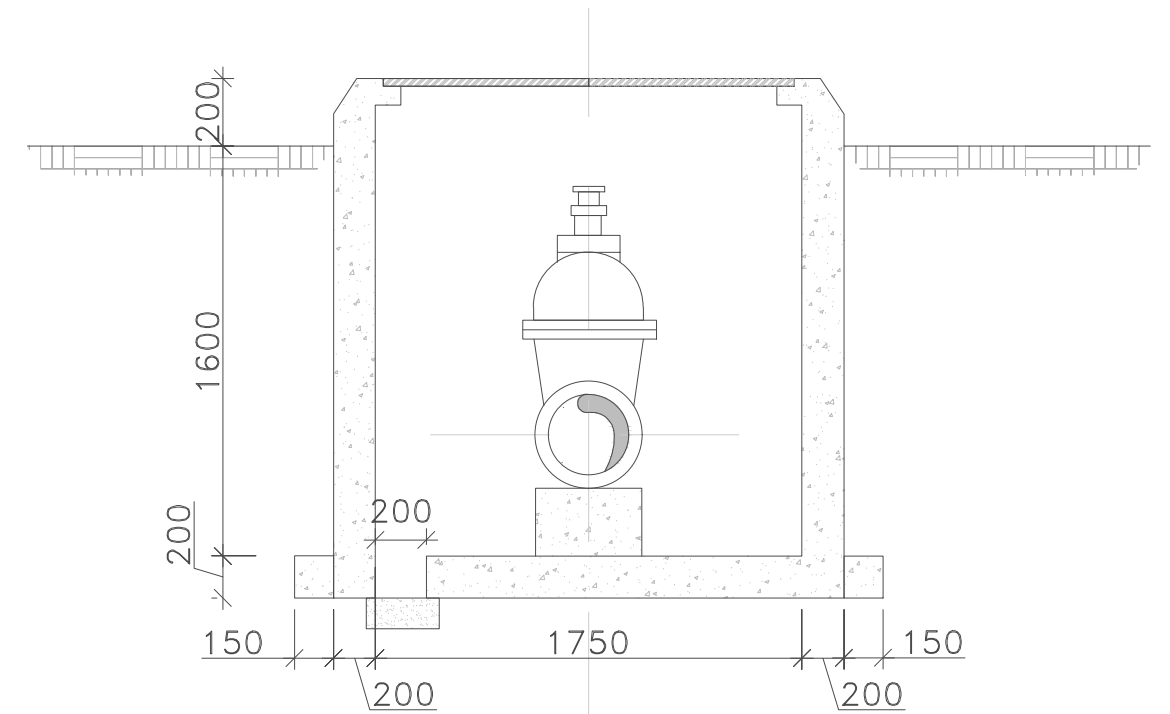
STAMP



PLAN GATE VALVE IN FULL SIZE BOX

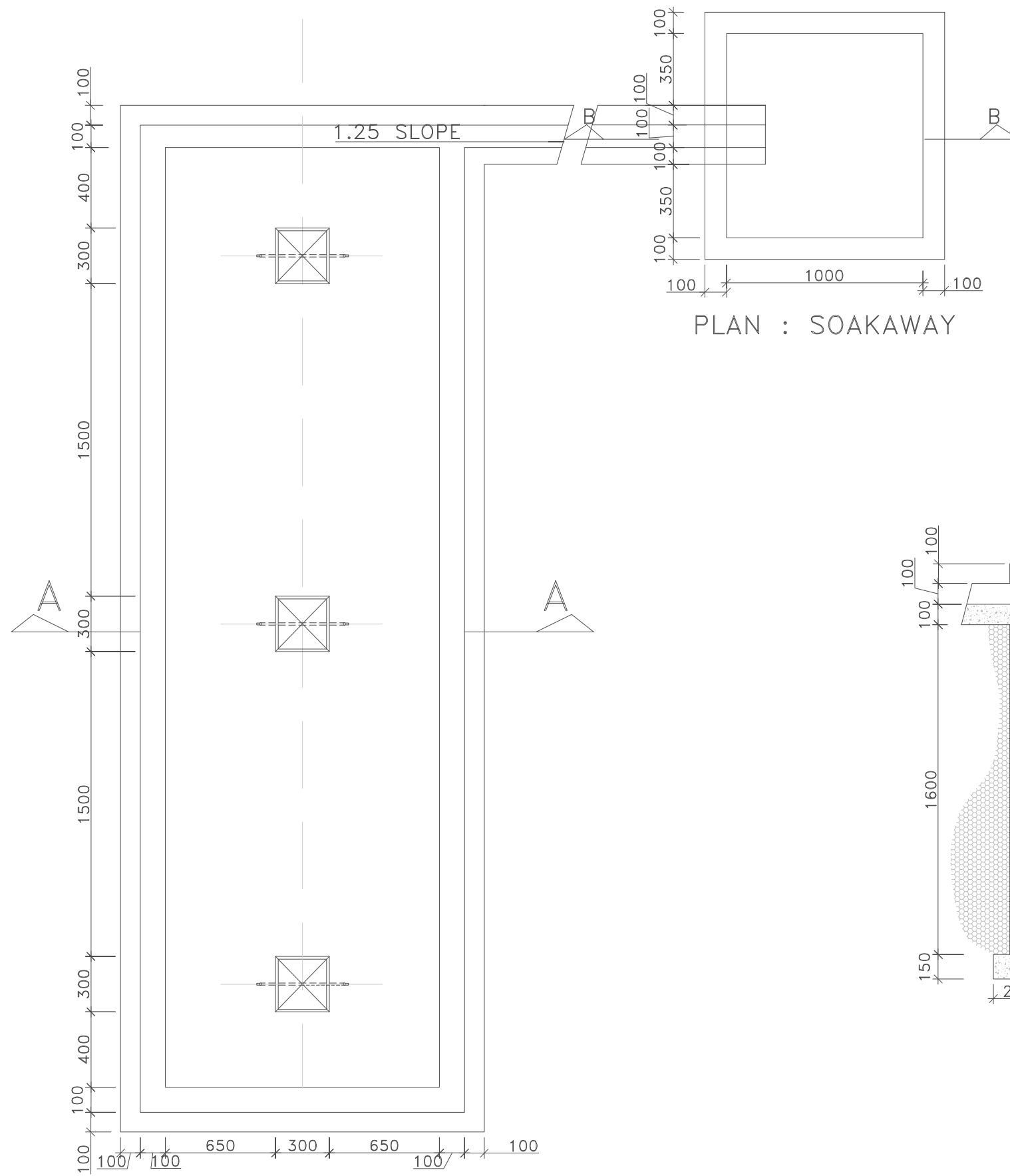


SECTION A-A



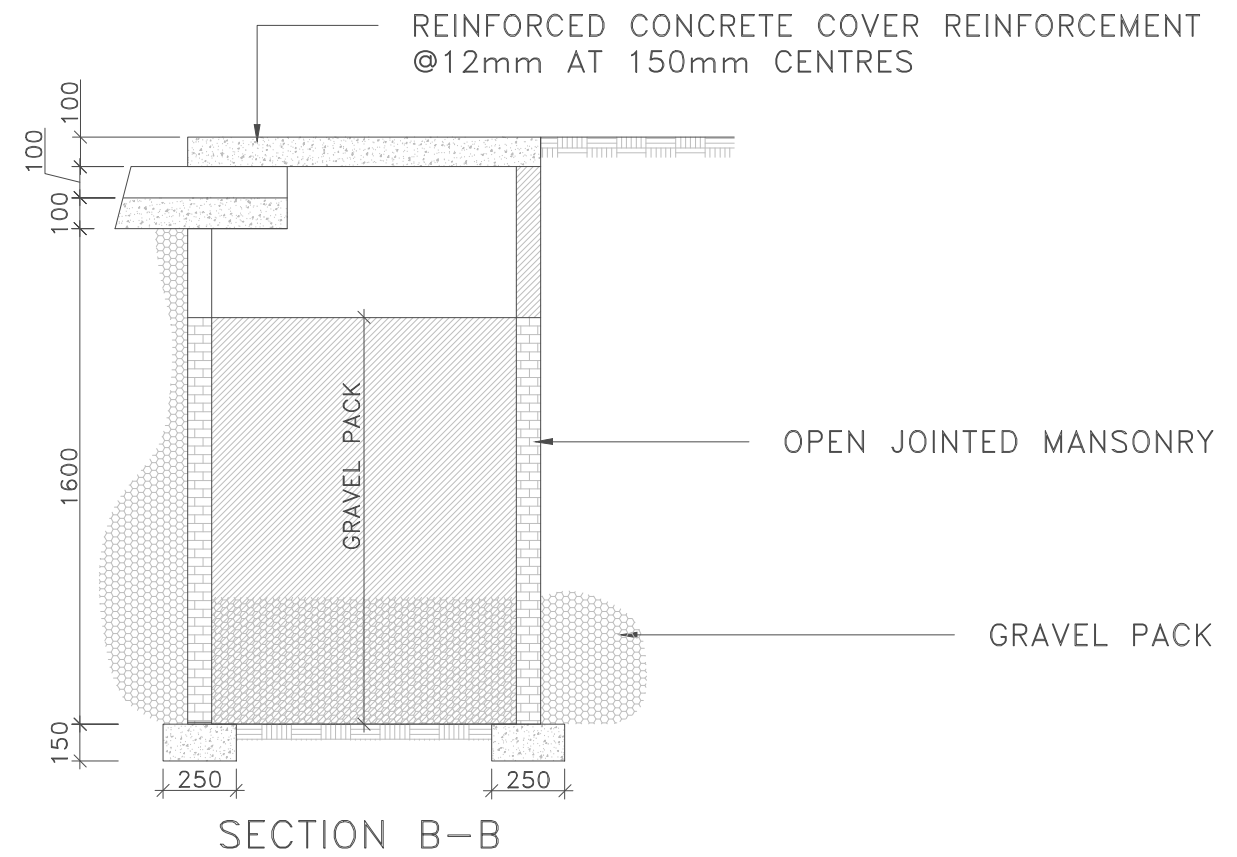
SECTION B-B

Mark : Date : Made by : Revision	CLIENT:	USAID/MERCY CORPS		PROJECT	SMALL TOWN	DRAWING TITLE	Designed: Engr Soji	STAMP
	CONSULTANT	<b>KONSADEM ASSOCIATES LTD</b> Engineers & Consultants 30, Onireke Layout, P.M. B. 5478, Ibadan, NIGERIA. E-mail: <a href="mailto:konsadem@gmail.com">konsadem@gmail.com</a>		<b>ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YOBE (BAY) STATES</b> Service Contract No: YOL SC 14	GANYE	GOVERNMENT PRIMARY AND SECONDARY SCHOOL, SANGASSUMI.	Drawn : Damola	
		<b>ZML CONSULTING NIGERIA LTD</b> Office 8, B1-Close Off 69(A) Road Gwarinpa Abuja,		STATE		TYPICAL GATE VALVE DETAILS	Traced : Checked : Engr Soji Date : MAY 2021	
				ADAMAWA		DRAWING NO. BB/TF/O3	Ref. No: USAID/BAY/AD-GAN	



PLAN : SOAKAWAY

PLAN : PUBLIC STAND POST



SECTION B-B

Mark :	Date :	Made by :	Revision

CLIENT: USAID/MERCY CORPS

CONSULTANT: **KONSADEM ASSOCIATES LTD**  
*Engineers & Consultants*  
 30, Onireke Layout,  
 P.M. B. 5478, Ibadan, NIGERIA.  
 E-mail: [konsadem@gmail.com](mailto:konsadem@gmail.com)

**2ML CONSULTING NIGERIA LTD**  
 Office 8, B1-Close Off 69(A) Road  
 Gwarinpa Abuja,

PROJECT: **ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YOBE (BAY) STATES**  
 Service Contract No: YOL SC 14

STATE: ADAMAWA

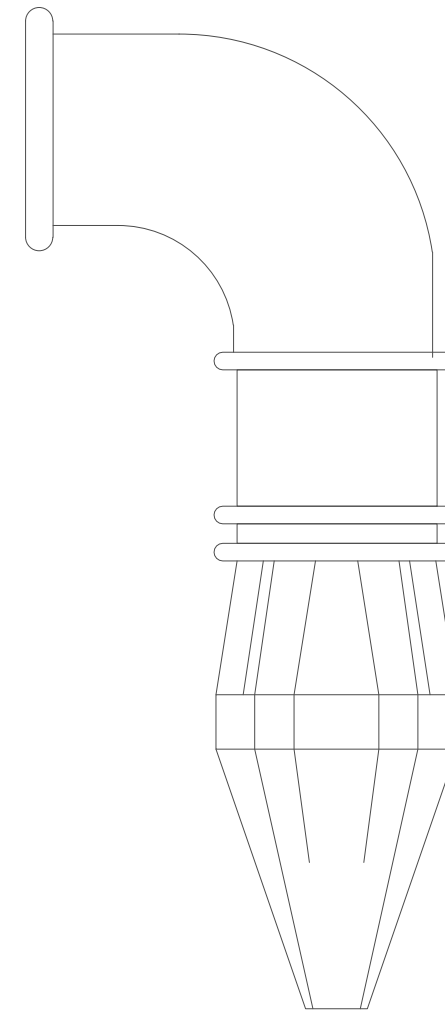
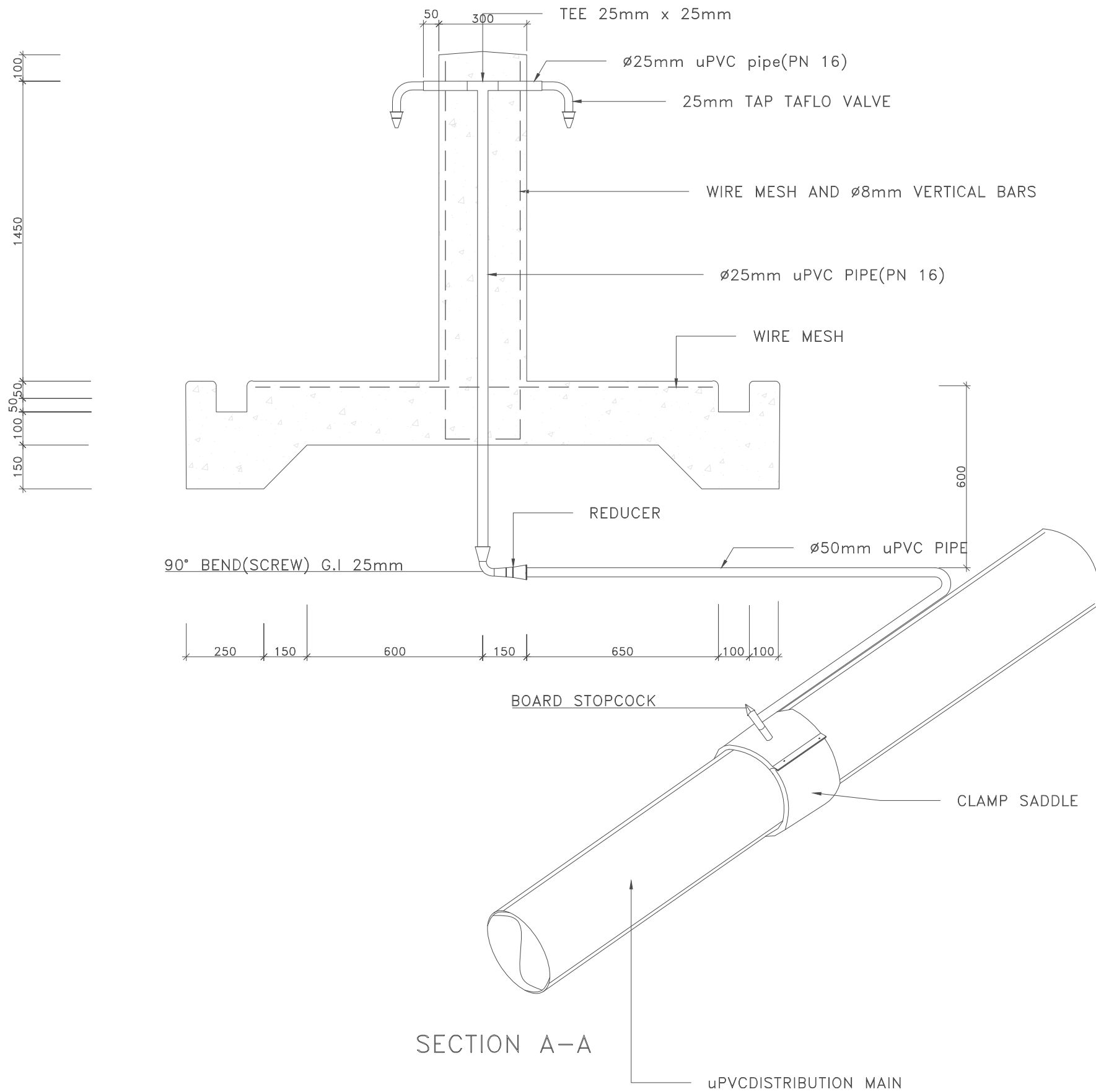
SMALL TOWN: GANYE

DRAWING TITLE: GOVERNMENT PRIMARY AND SECONDARY SCHOOL, SANGASSUMI.  
 TYPICAL PUBLIC STAND POST DETAILS

DRAWING NO.: BB/TP/O4

SCALE:

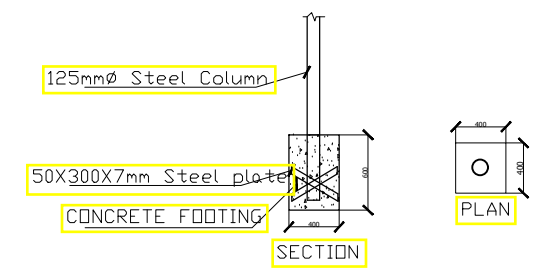
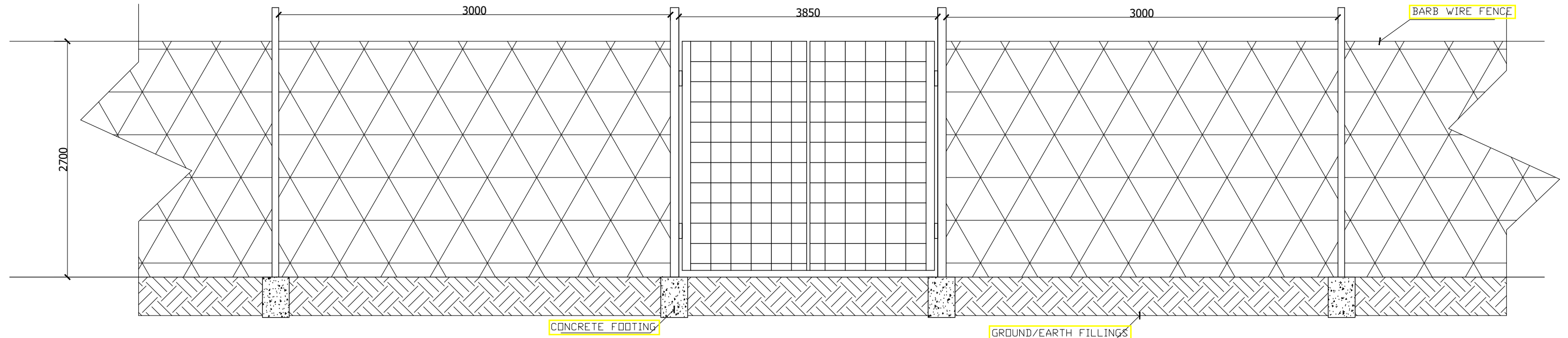
Designed:	Engr Soji	STAMP
Drawn:	Damola	
Traced:		
Checked:	Engr Soji	
Date:	MAY 2021	
Ref. No:	USAID/BAY/AD-GAN	



TAFLO TABLOT VALVE

SECTION A-A

Mark : Date : Made by : Revision	CLIENT:	USAID/MERCY CORPS		PROJECT	SMALL TOWN	DRAWING TITLE	Designed: Engr Soji	STAMP
	CONSULTANT	<b>KONSADEM ASSOCIATES LTD</b> Engineers & Consultants 30, Onireke Layout, P.M. B. 5478, Ibadan, NIGERIA. E-mail: <a href="mailto:konsadem@gmail.com">konsadem@gmail.com</a>		<b>2ML CONSULTING NIGERIA LTD</b> Office 8, B1-Close Off 69(A) Road Gwarinpa Abuja.	GANYE	GOVERNMENT PRIMARY AND SECONDARY SCHOOL, SANGASSUMI. TYPICAL PUBLIC STAND POST DETAILS	Drawn : Damola Traced : Checked : Engr Soji Date : MAY 2021	
				STATE		DRAWING NO.	SCALE	Ref. No:
				ADAMAWA		BB/TP/05		USAID/BAY/AD-GAN



Mark :	Date :	Made by :	Revision
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CLIENT: USAID/MERCY CORPS

CONSULTANT: **KONSADEM ASSOCIATES LTD**  
*Engineers & Consultants*  
 30, Onireke Layout,  
 P.M. B. 5478, Ibadan, NIGERIA.  
 E-mail: [konsadem@gmail.com](mailto:konsadem@gmail.com)

**2ML CONSULTING NIGERIA LTD**  
*Office 8, B1-Close Off 69(A) Road*  
 Gwarinpa Abuja,

PROJECT: **ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YOBE (BAY) STATES**  
*Service Contract No: YOL SC 14*

STATE: ADAMAWA

SMALL TOWN: GANYE

DRAWING TITLE: GOVERNMENT PRIMARY AND SECONDARY SCHOOL, SANGASSUMI.  
 GATE AND FENCE DETAILS

DRAWING NO.: BB/TP/06

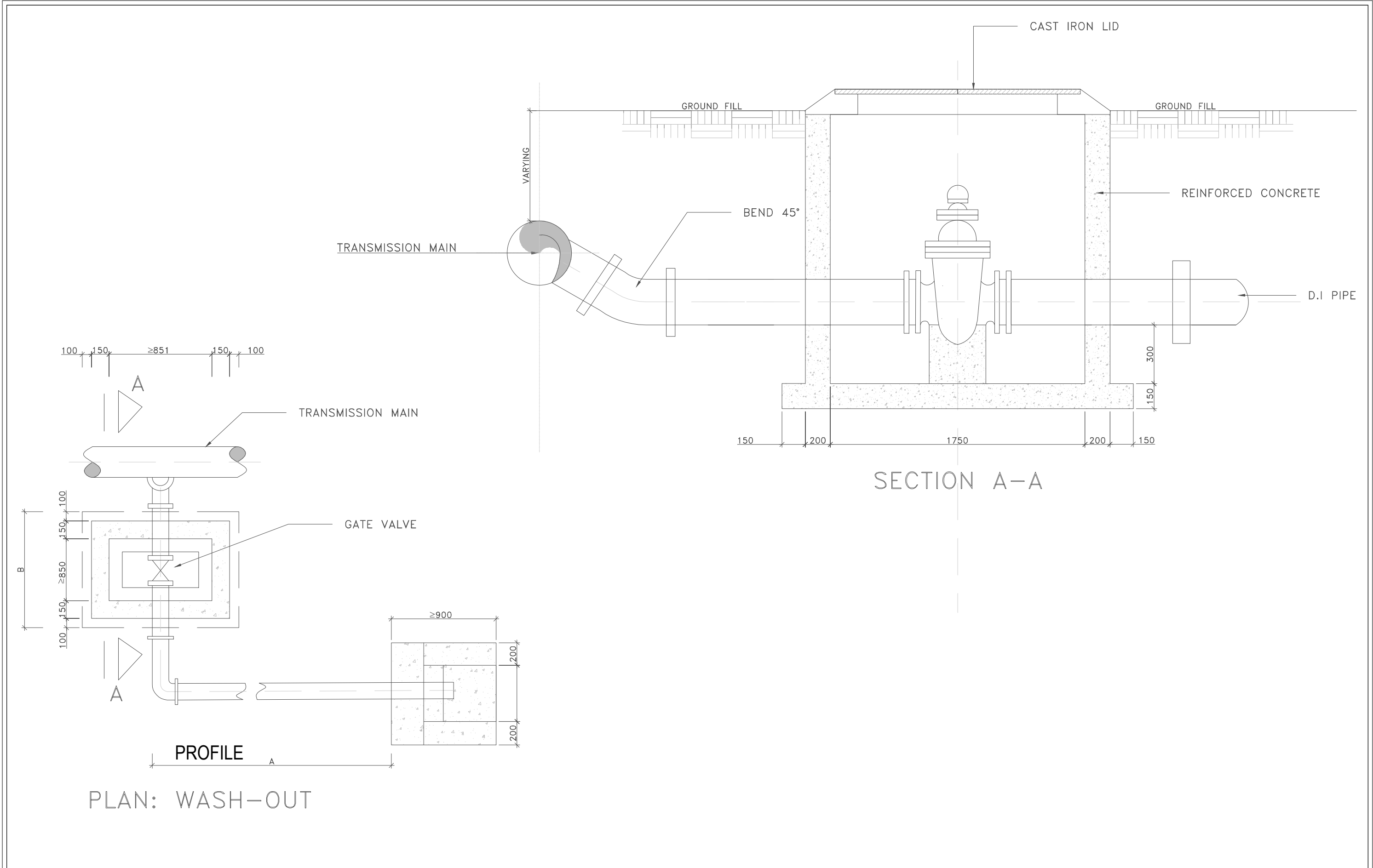
SCALE:

Designed: Engr Soji  
 Drawn: Damola  
 Traced:  
 Checked: Engr Soji  
 Date: MAY 2021

Ref. No: USAID/BAY/AD-GAN

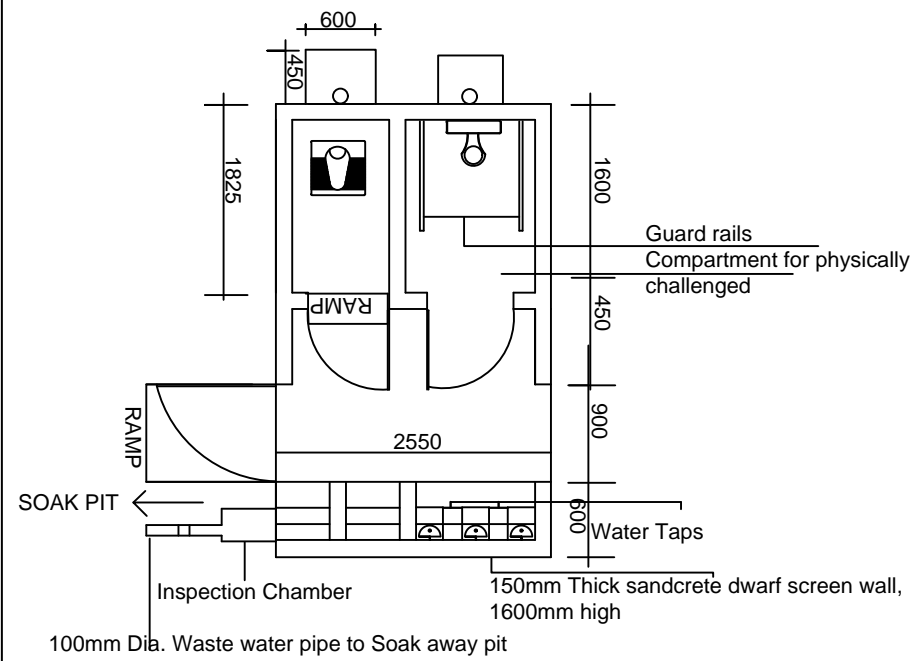
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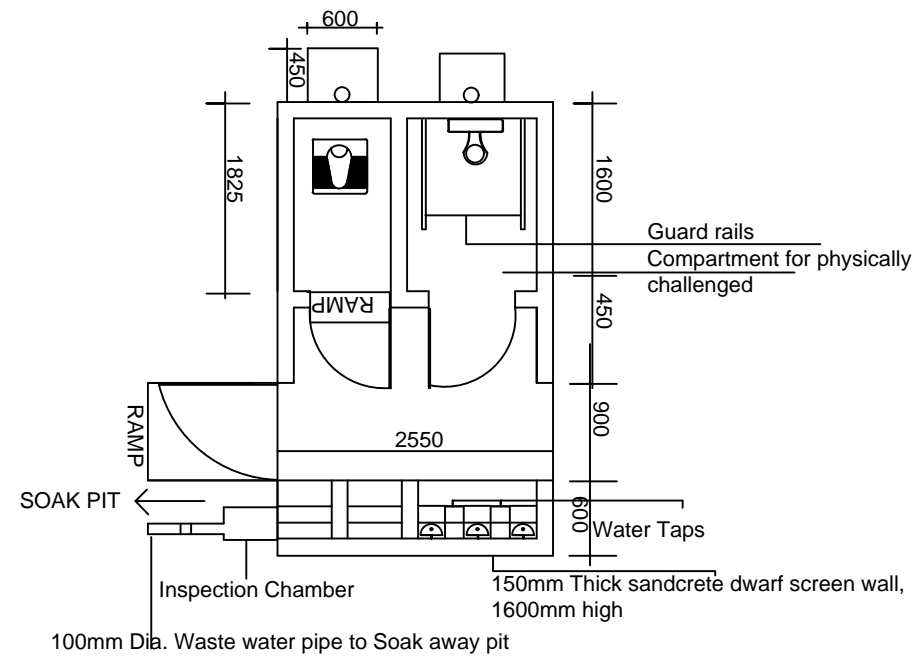


PLAN: WASH-OUT

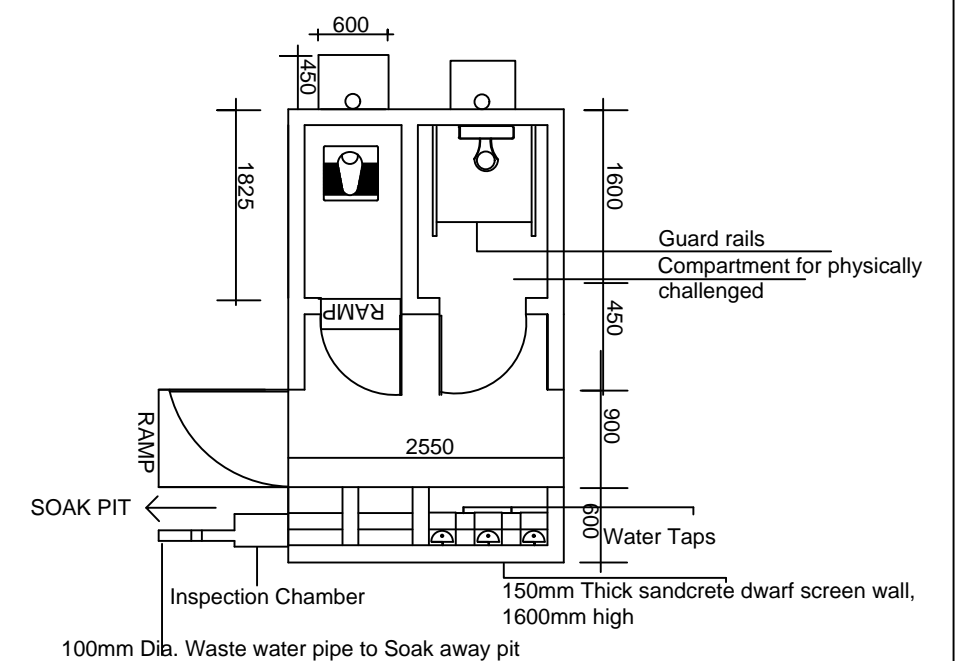
Mark : Date : Made by : Revision	CLIENT:	USAID/MERCY CORPS		PROJECT	SMALL TOWN	DRAWING TITLE	Designed: Engr Soji	STAMP
	CONSULTANT	<b>KONSADEM ASSOCIATES LTD</b> <i>Engineers &amp; Consultants</i> 30, Onireke Layout, P.M. B. 5478, Ibadan, NIGERIA. E-mail: <a href="mailto:konsadem@gmail.com">konsadem@gmail.com</a>		<b>2ML CONSULTING NIGERIA LTD</b> <i>Office 8, B1-Close Off 69(A) Road</i> Gwarinpa Abuja,	GANYE	GOVERNMENT PRIMARY AND SECONDARY SCHOOL, SANGASSUMI. TYPICAL WASHOUT DETAILS	Drawn : Damola Traced : Checked : Engr Soji Date : MAY 2021	
				STATE		DRAWING NO.	Ref. No:	
				ADAMAWA		BB/TP/07	USAID/BAY/AD-GAN	
						SCALE		



**TWO COMPARTMENT POUR FLUSH LATRINE  
(FEMALE)**

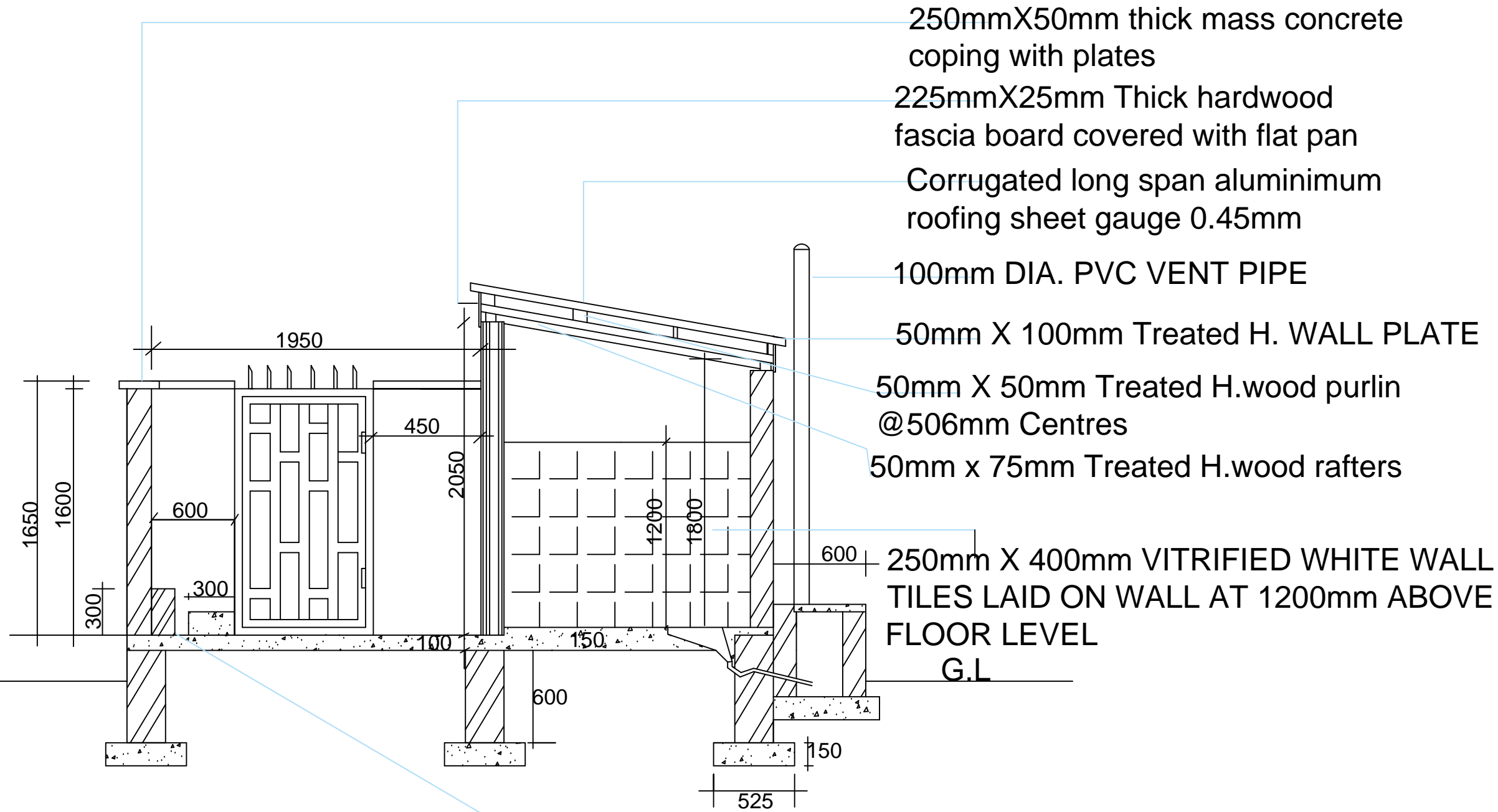


**TWO COMPARTMENT POUR FLUSH LATRINE  
(MALE)**



**TWO COMPARTMENT POUR FLUSH LATRINE  
TEACHERS**

Mark : Date : Made by : Revision	CLIENT:	USAID/MERCY CORPS	PROJECT	SMALL TOWN	DRAWING TITLE	Designed: Engr Soji	STAMP
	CONSULTANT	<b>KONSADEM ASSOCIATES LTD</b> Engineers & Consultants 30, Onireke Layout, P.M. B. 5478, Ibadan, NIGERIA. E-mail:konsadem@gmail.com	<b>2ML CONSULTING NIGERIA LTD</b> Office 8, B1-Close Off 69(A) Road Gwarinpa Abuja.	<b>ENGINEERING DESIGN OF WASH FACILITIES ACROSS BORNO, ADAMAWA AND YOBE (BAY) STATES</b> Service Contract No:YOL SC 14	GANYE (GANAGASSARO)	<b>GOVT PRY/SEC GIRLS SCH, SANGSSUMI POUR FLUSH LATRINE SECTIONS</b>	
			STATE		DRAWING NO.	Checked : Engr Soji	
			ADAMAWA		SCALE	Date : MAY 2021	
					BB/BD/O I	Ref. No:	
						USAID/BAY/BU-00	



250mmX50mm thick mass concrete coping with plates

225mmX25mm Thick hardwood fascia board covered with flat pan

Corrugated long span aluminium roofing sheet gauge 0.45mm

100mm DIA. PVC VENT PIPE

50mm X 100mm Treated H. WALL PLATE

50mm X 50mm Treated H.wood purlin @506mm Centres

50mm x 75mm Treated H.wood rafters

250mm X 400mm VITRIFIED WHITE WALL TILES LAID ON WALL AT 1200mm ABOVE FLOOR LEVEL

300mm X 300mm VITRIFIED ROUGH WHITE FLOOR TILES LAID ON TOILET FLOOR AND URINARY TROUGHS

# SECTION A-A

Mark : Date : Made by : Revision	CLIENT:	USAID/MERCY CORPS		PROJECT	SMALL TOWN	DRAWING TITLE	Designed: Engr Soji	STAMP
	CONSULTANT	<b>KONSADEM ASSOCIATES LTD</b> Engineers & Consultants 30, Onireke Layout, P.M. B. 5478, Ibadan, NIGERIA. E-mail:konsadem@gmail.com		<b>2ML CONSULTING NIGERIA LTD</b> Office 8, B1-Close Off 69(A) Road Gwarinpa Abuja.	GANYE (GANAGASSARO)	GOVT PRY/SEC GIRLS SCH, SANGSSUMI POUR FLUSH LATRINE SECTIONS	Drawn : Damola Traced : Checked : Engr Soji Date : MAY 2021	
				STATE		DRAWING NO.	SCALE	Ref. No:
				YOBE		BB/BD/O I		USAID/BAY/BU-00