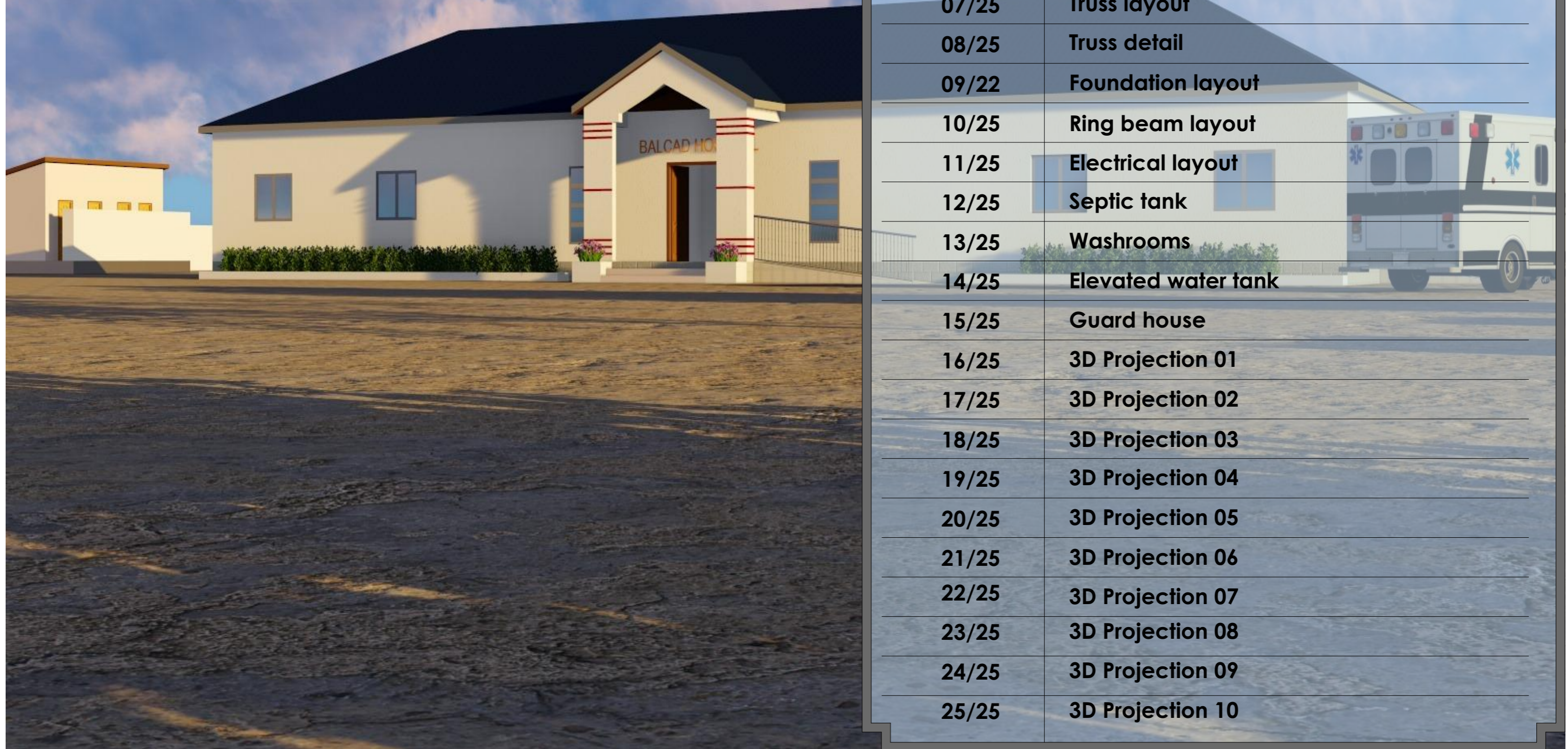


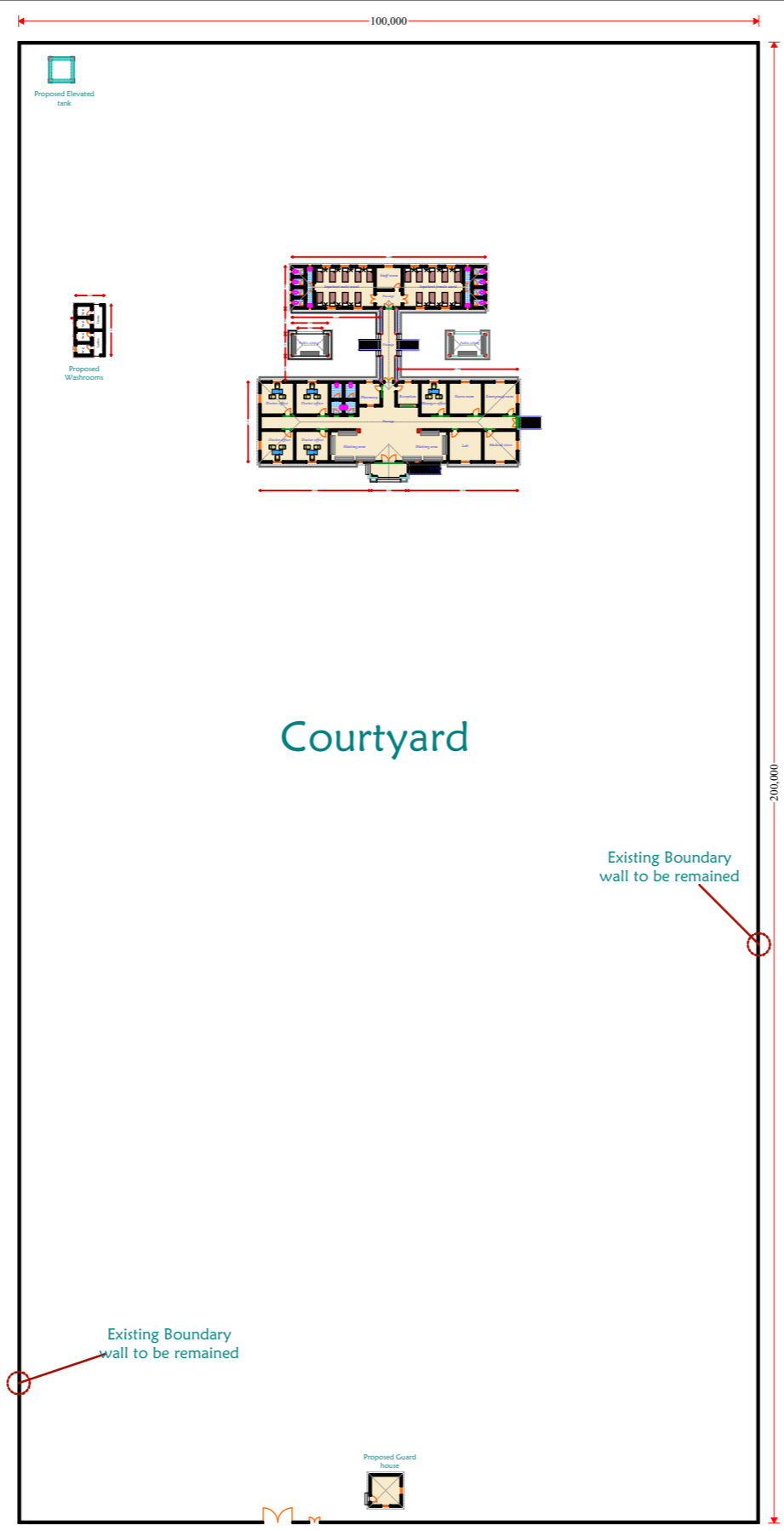


**PROPOSED CONSTRUCTION OF REFERRAL
HOSPITAL IN BALCAD DISTRICT, MIDDLE
SHABELLE REGION**

OCTOBER 2018 DRAWING INDEX



Sheet No.	Content
01/25	Master plan
02/25	Floor Plan
03/25	Elevations 1&2
04/25	Elevations 3&4
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Notes

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5. All reinforced concrete works to be done according to structural detail drawings.

No:	Date:	Description:
REVISION		

Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC OF SOMALIA

HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

MASTER PLAN

SCALE: AS SHOWN

DATE: OCTOBER 2018

DRAWN BY: **ENG. Duale**

REVIEWED BY: **ENG. D. Wanja**

Sheet No.

01/31

A3



Floor Plan

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THE FEDERAL REPUBLIC OF SOMALIA
HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:
PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:
FLOOR PLAN

SCALE:	AS SHOWN
DATE:	OCTOBER 2018
DRAWN BY:	ENG. Duale
REVIEWED BY:	ENG. D. Wanja

Sheet No.
02/31

A3

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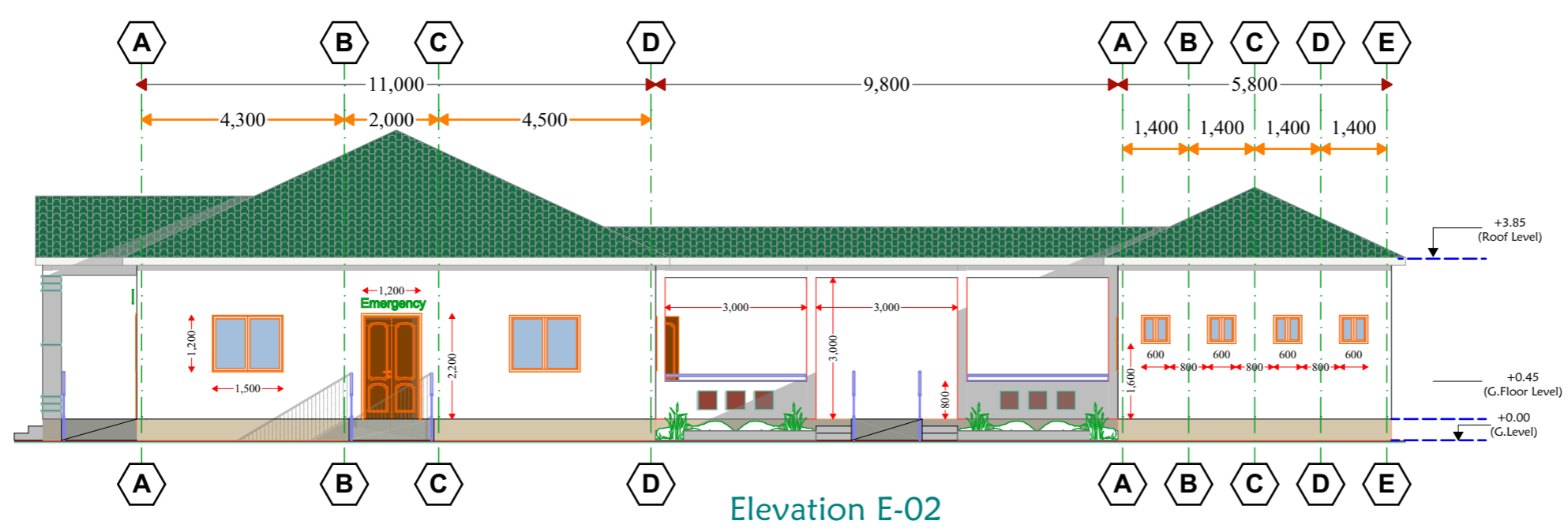
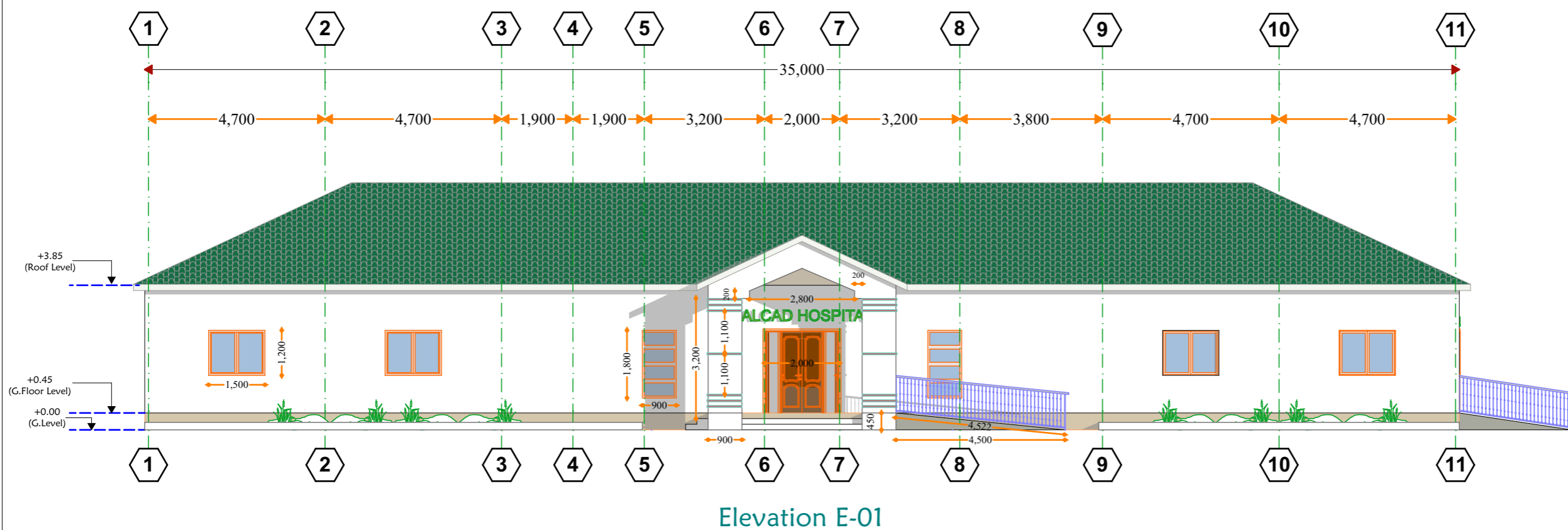
THE FEDERAL REPUBLIC OF SOMALIA
HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:
PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:
ELEVATIONS

SCALE: AS SHOWN
DATE: OCTOBER 2018
DRAWN BY: ENG. Duale
REVIEWED BY: ENG. D. Wanja

Sheet No.
03/31
A3



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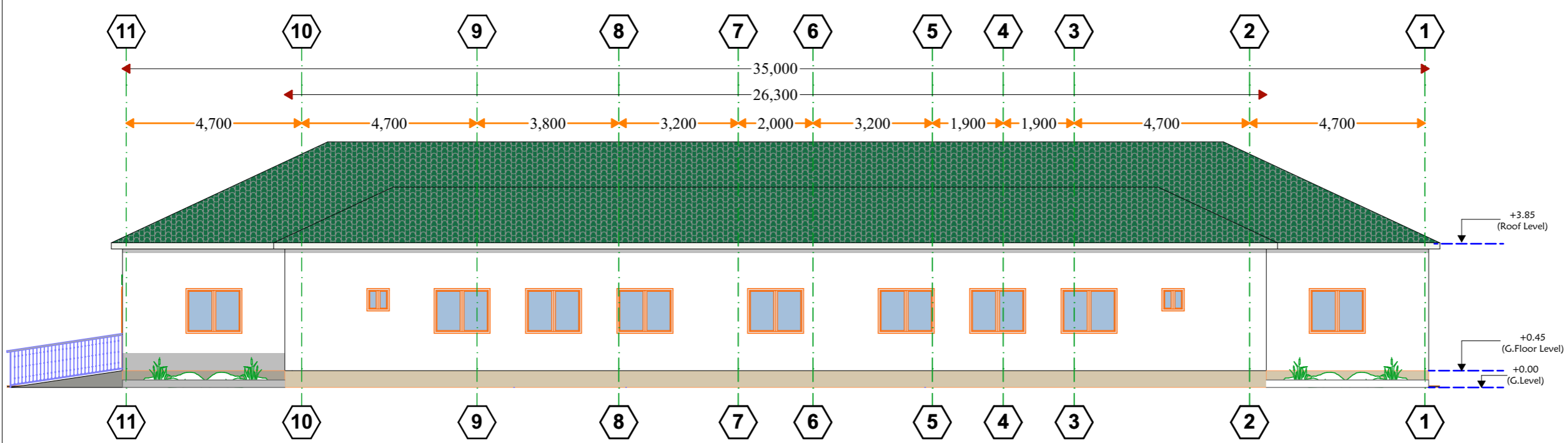
THE FEDERAL REPUBLIC OF SOMALIA
HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:
PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

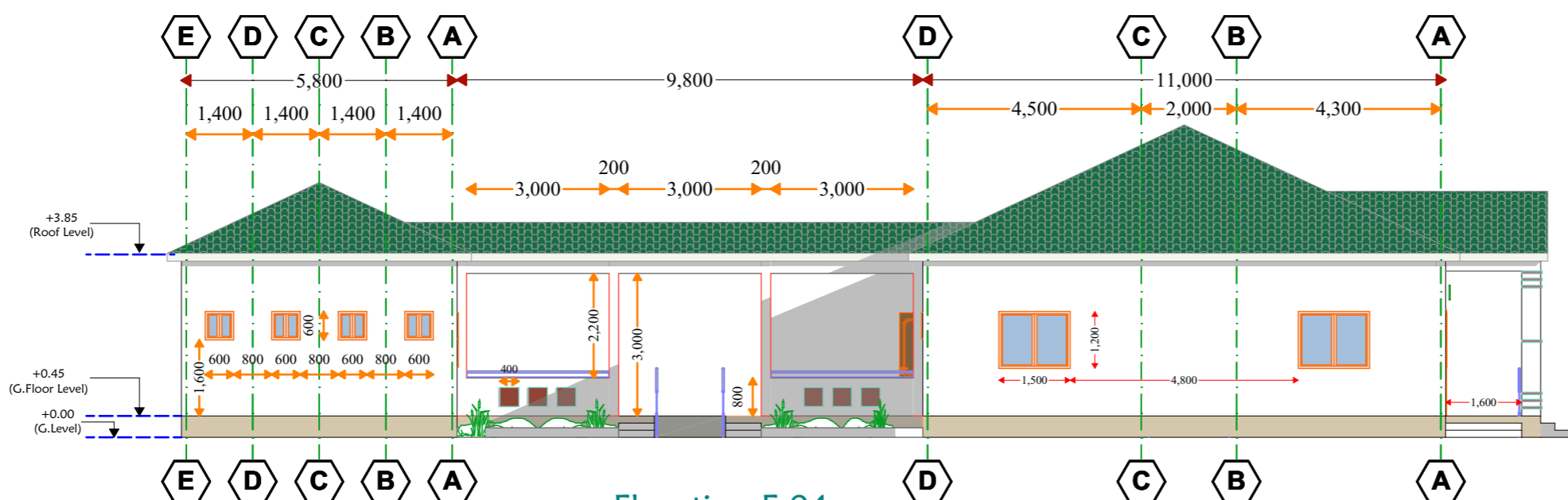
Drawing Title:
ELEVATIONS

SCALE: AS SHOWN
DATE: OCTOBER 2018
DRAWN BY: ENG. Duale
REVIEWED BY: ENG. D. Wanja

Sheet No.
04/31
A3



Elevation E-03



Elevation E-04

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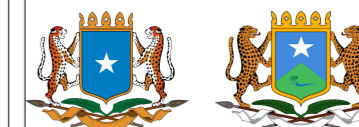
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REVISION		

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Client:



THE FEDERAL REPUBLIC OF SOMALIA

HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

SECTION VIEWS

SCALE: AS SHOWN

DATE: OCTOBER 2018

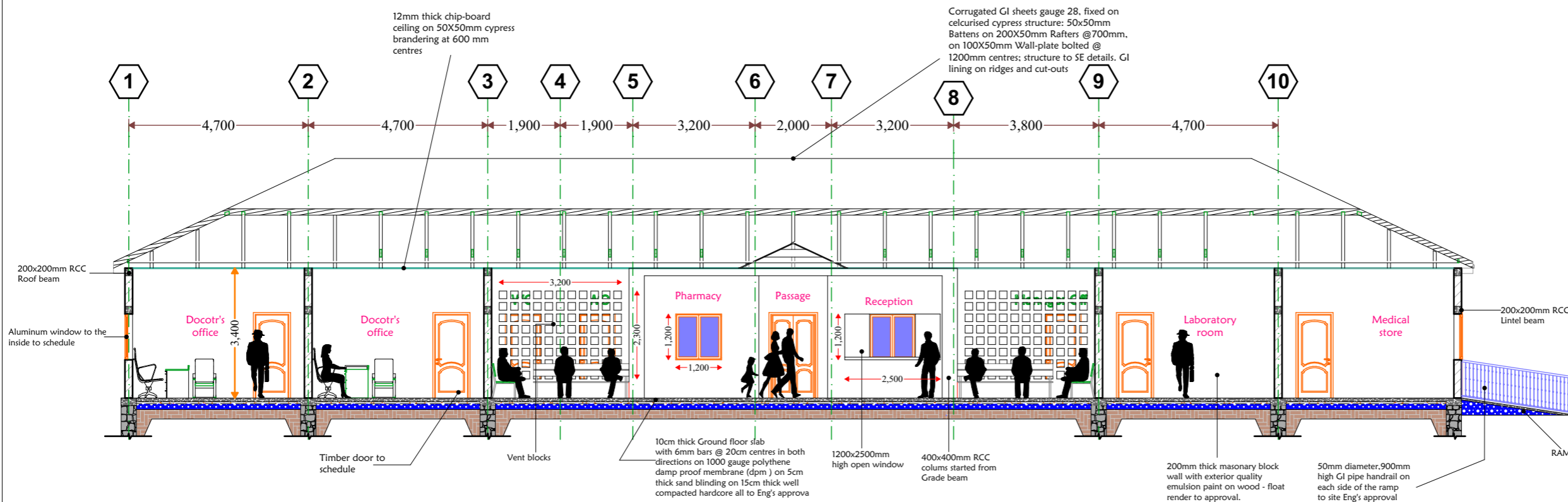
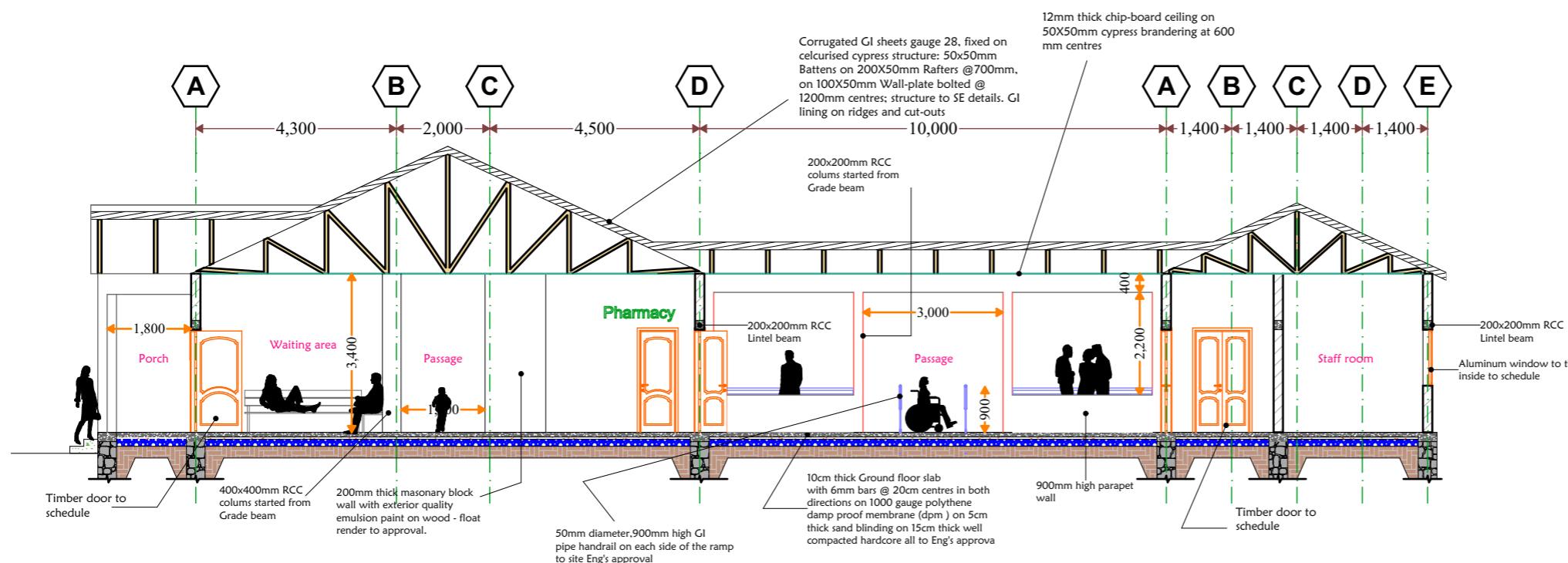
DRAWN BY: ENG. Duale

REVIEWED BY: ENG. D. Wanja

Sheet No.

05/31

A3



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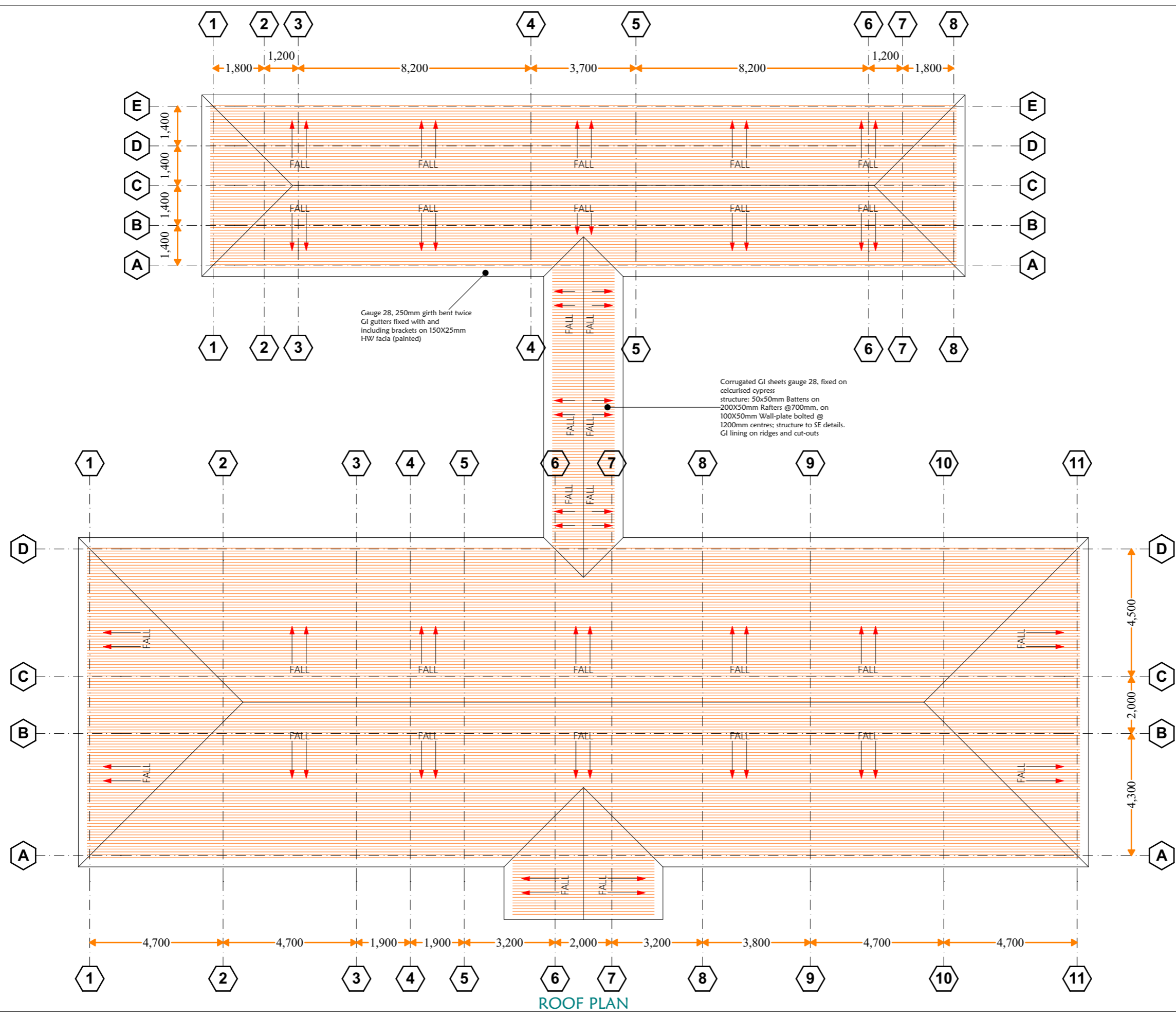
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PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

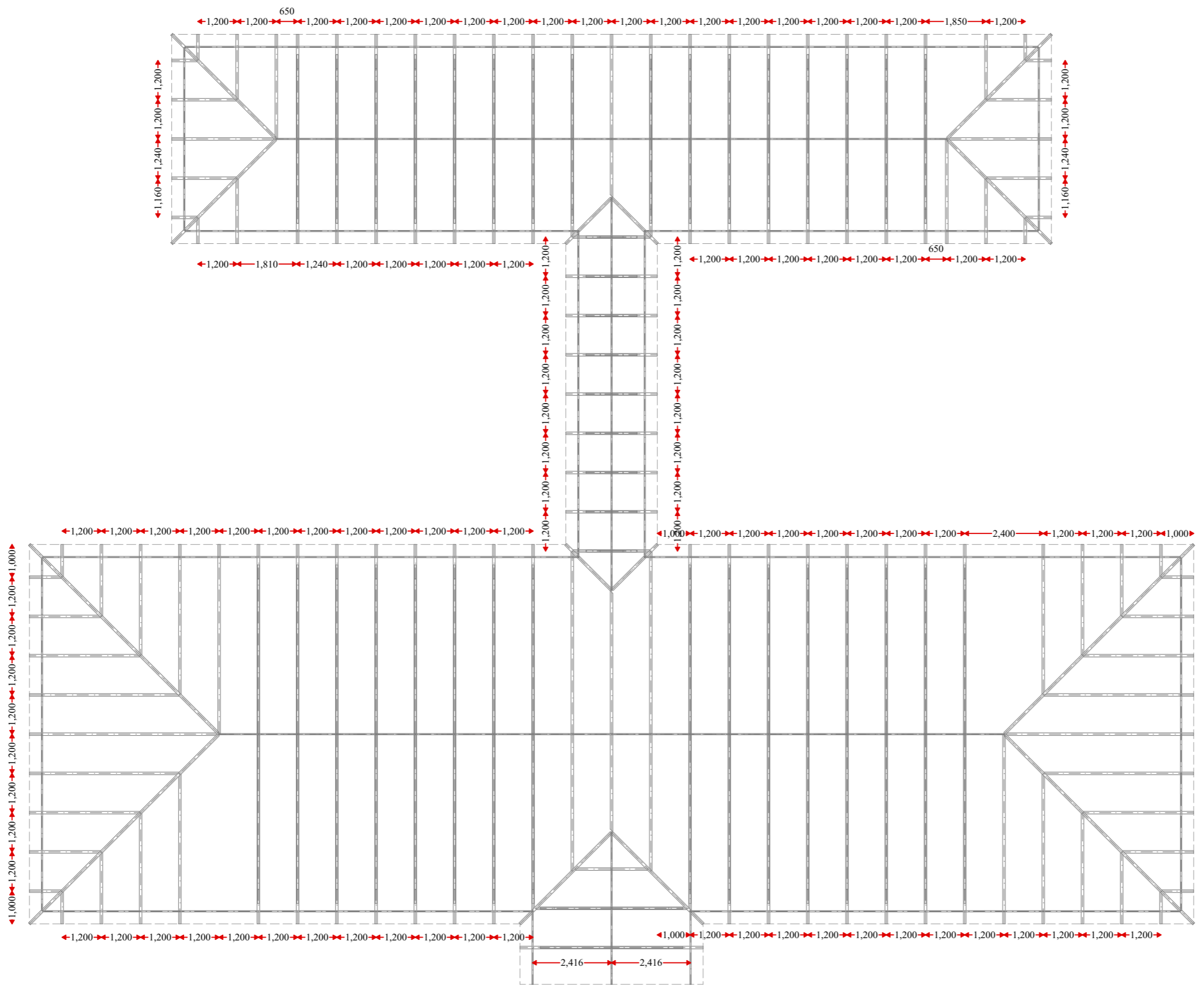
Drawing Title:
ROOF PLAN

SCALE:	AS SHOWN
DATE:	OCTOBER 2018
DRAWN BY:	ENG. Duale
REVIEWED BY:	ENG. D. Wanja

Sheet No.
06/31

A3





Truss layout

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THE FEDERAL REPUBLIC OF SOMALIA
HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:
PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:
TRUSS LAYOUT

SCALE: AS SHOWN

DATE: OCTOBER 2018

DRAWN BY: ENG. Duale

REVIEWED BY: ENG. D. Wanja

Sheet No.
07/31
A3

Notes

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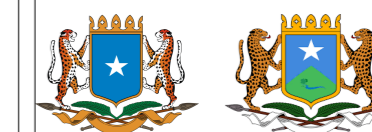
No:	Date:	Description:
REVISION		

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The UN Migration Agency

Client:



THE FEDERAL REPUBLIC OF SOMALIA

HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

STRUCTURAL DETAILS

SCALE: AS SHOWN

DATE: OCTOBER 2018

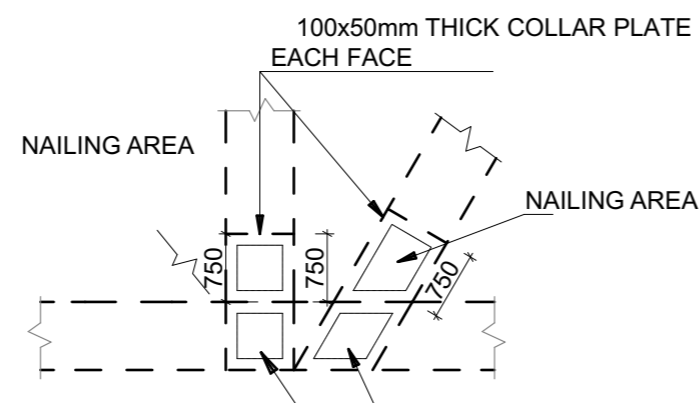
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REVIEWED BY: ENG. D. Wanja

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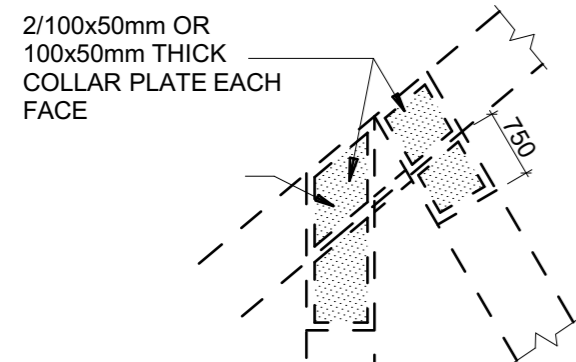
08/31

A3



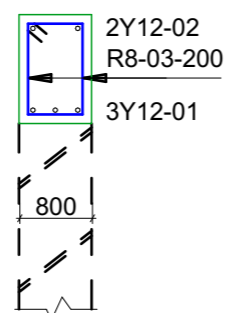
DETAIL 'C'

(SCALE 1:20)



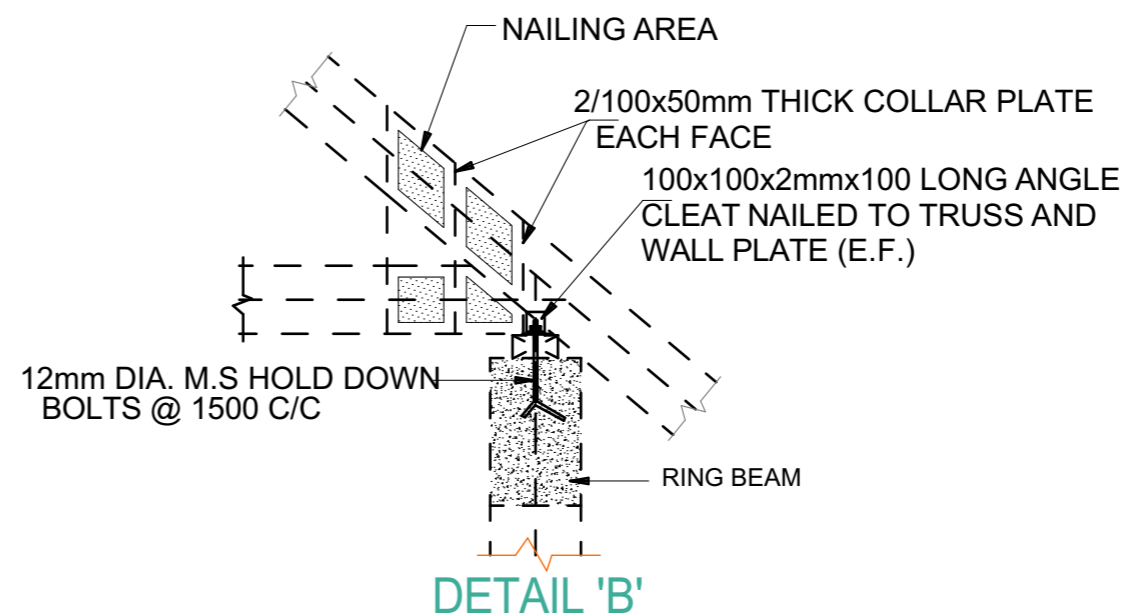
DETAIL 'A'

(SCALE 1:20)



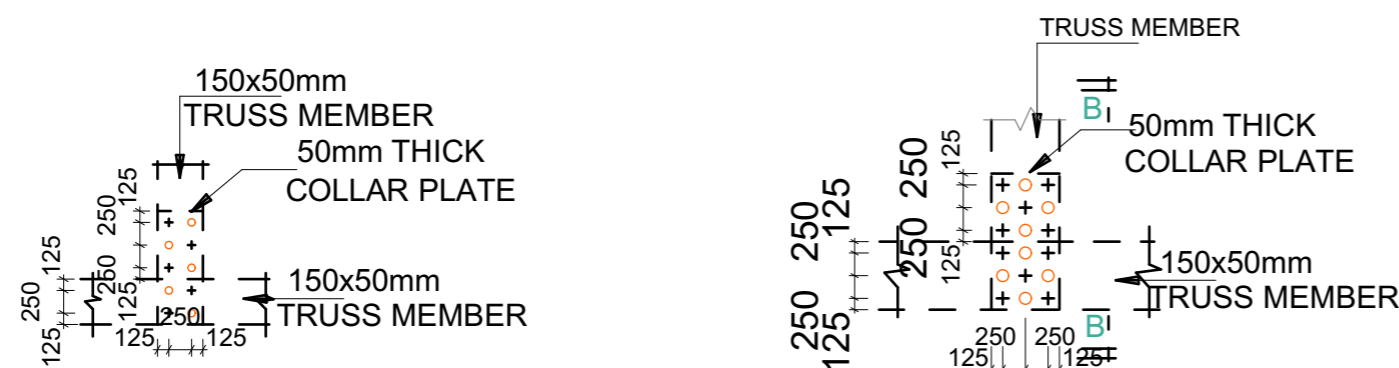
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(SCALE 1:25)



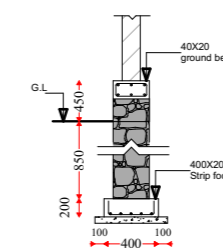
DETAIL 'B'

(SCALE 1:20)



TYPICAL NAILING PATTERN

(SCALE 1:20)



Foundation detail

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THE FEDERAL REPUBLIC OF SOMALIA
HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

FOUNDATION PLAN

SCALE: AS SHOWN

DATE: OCTOBER 2018

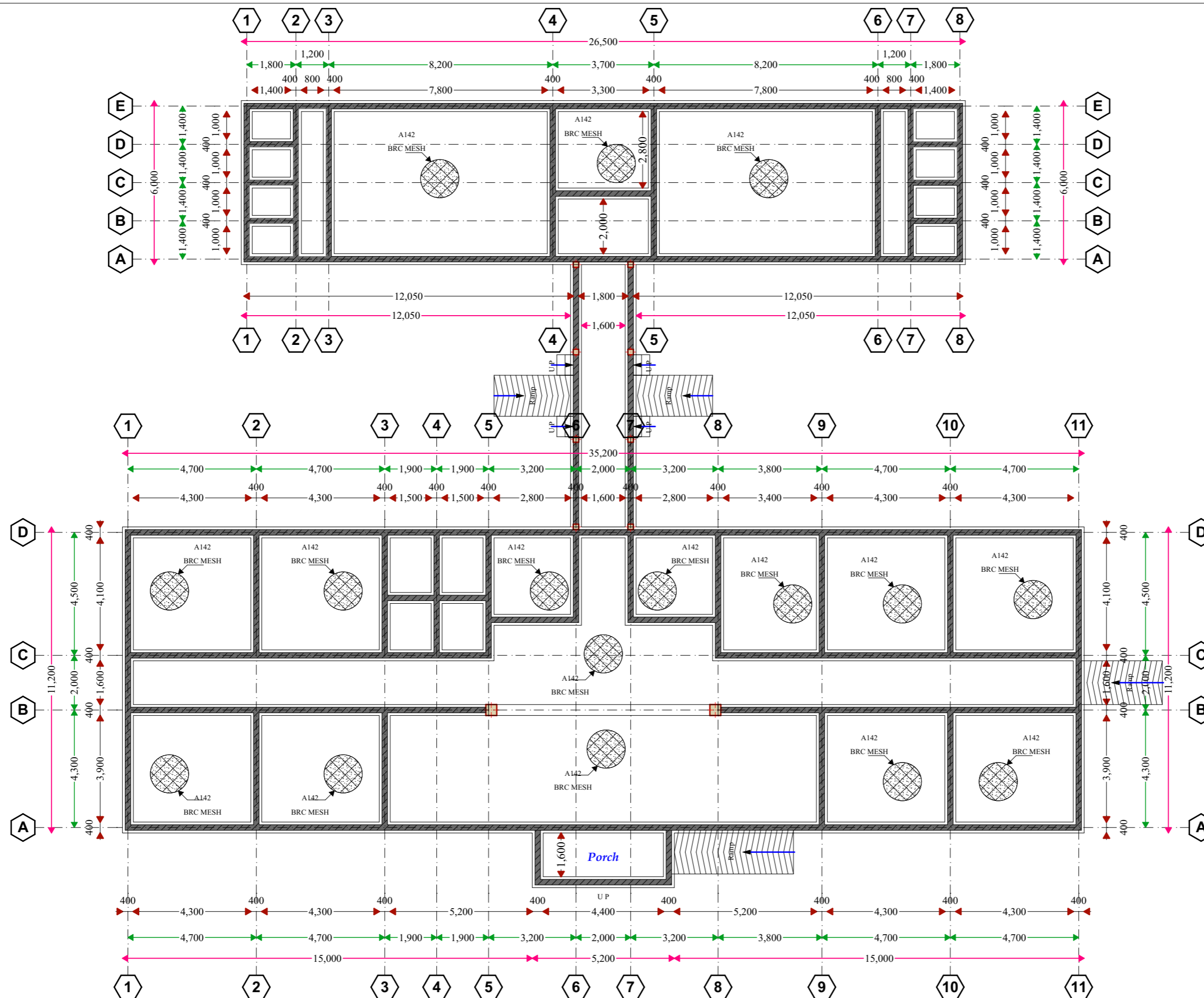
DRAWN BY: ENG. Duale

REVIEWED BY: ENG. D. Wanja

Sheet No.

09/31

A3



Foundation Plan

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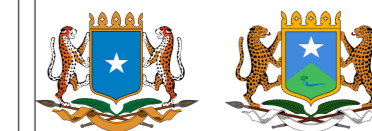
No:	Date:	Description:
REVISION		

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Client:



THE FEDERAL REPUBLIC OF SOMALIA
HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

RING BEAM

SCALE: AS SHOWN

DATE: OCTOBER 2018

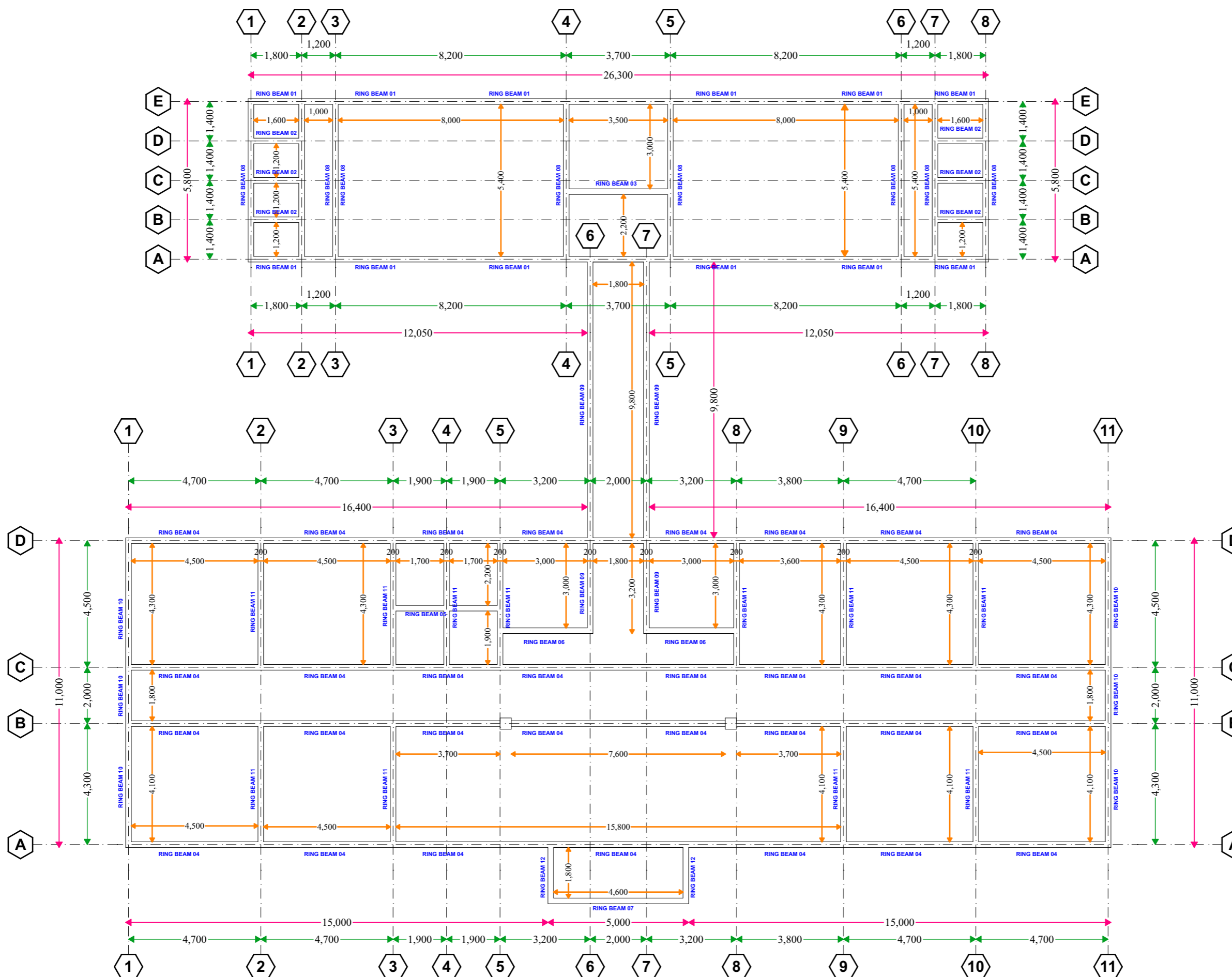
DRAWN BY: ENG. Duale

REVIEWED BY: ENG. D. Wanja

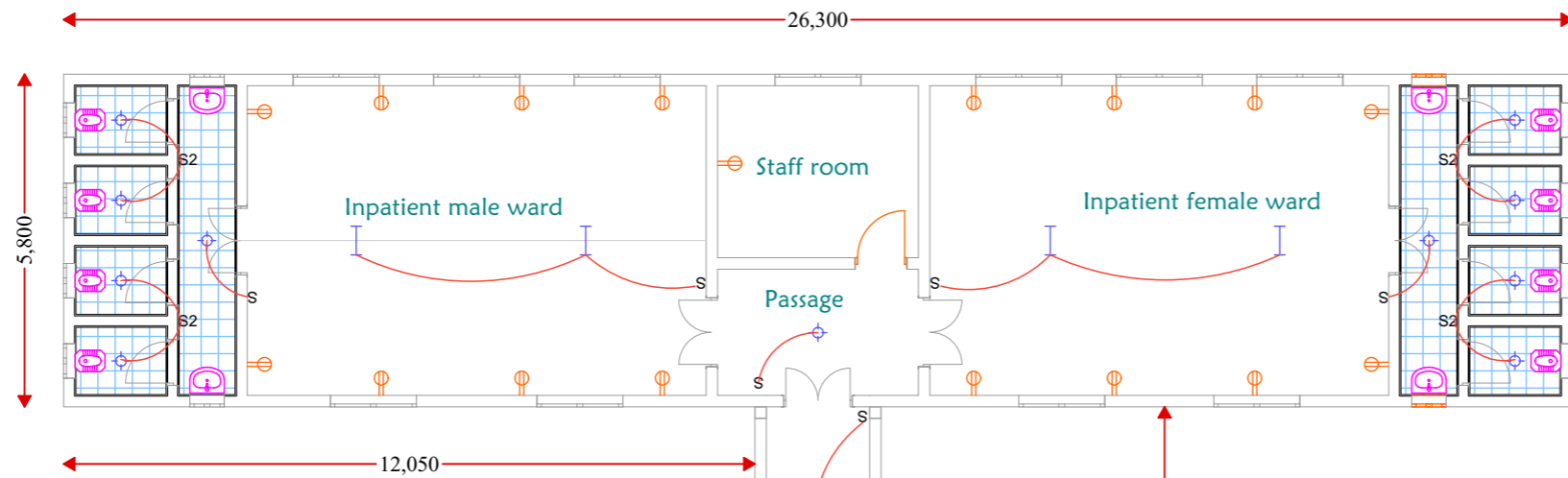
Sheet No.

10/31

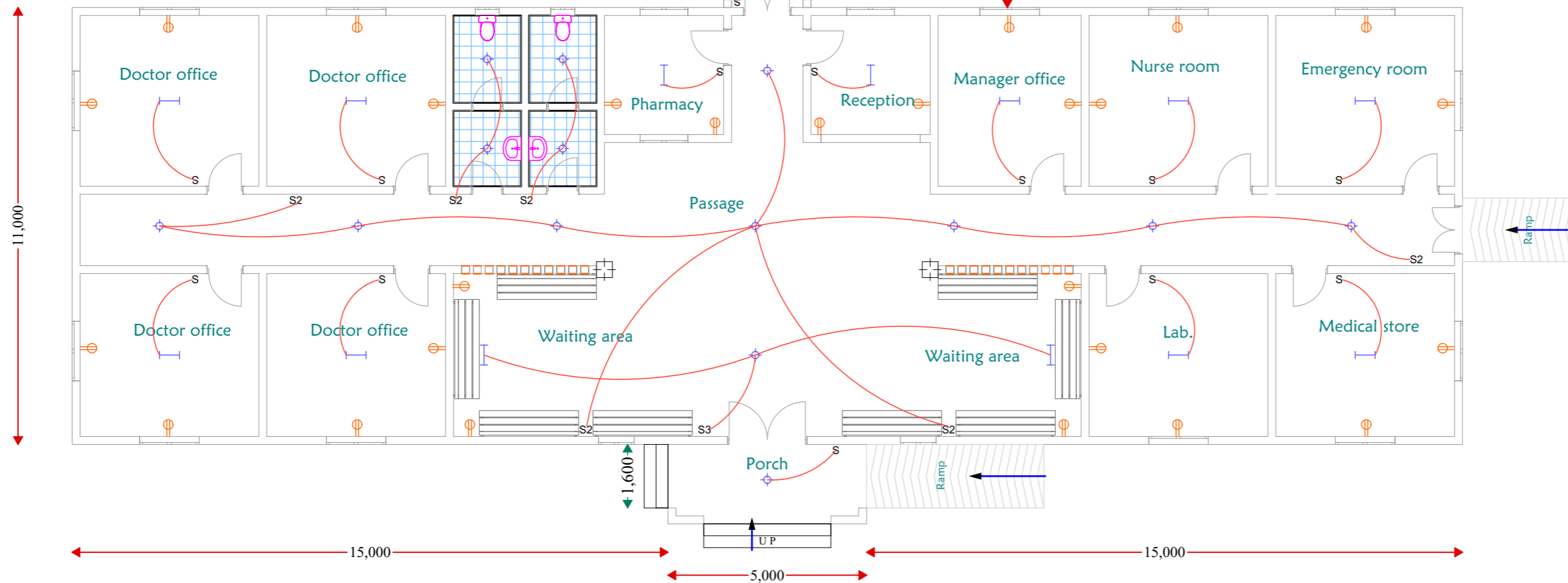
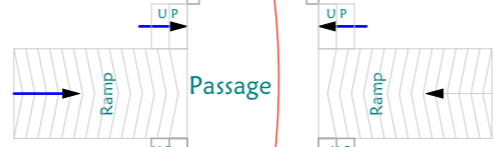
A3



RING BEAM LAYOUT PLAN



SYMBOL	MEANING
	CEILING MOUNTED LIGHT FIXTURE
	CEILING MOUNTED LIGHT FIXTURE (PENDANT)
	WALL MOUNTED LIGHT FIXTURE
	RECESSED SPOT LIGHT
	FLUORESCENT LIGHT FIXTURE
	FLUORESCENT LIGHT FIXTURE UNDER FALSE CEILING
	WIRING CONNECTION
	FLUORESCENT LIGHT FIXTURE WITH SHAVER SOCKET & LOCALISED SWITCH
	FLUORESCENT LIGHT FIXTURE WITH LOCALISED SWITCH
	SINGLE PLEX RECEPTACLE
	DUPLEX RECEPTACLE
	SPECIAL RECEPTACLE & OUTLET (WITH PILOT LIGHT)
	WATER PROOF RECEPTACLE (SINGLE)
	CONSUMER UNIT
	TELEPHONE/TV JACK
	ALARM KEYPAD
	DOORBELL PUSH BUTTON
	DOORBELL TRANSFORMER
	3 gang switch
	2 gang switch
	Single pole switch
	Flood lamp



Electrical Plan

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THE FEDERAL REPUBLIC OF SOMALIA
HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

ELECTRICAL PLAN

SCALE: AS SHOWN

DATE: OCTOBER 2018

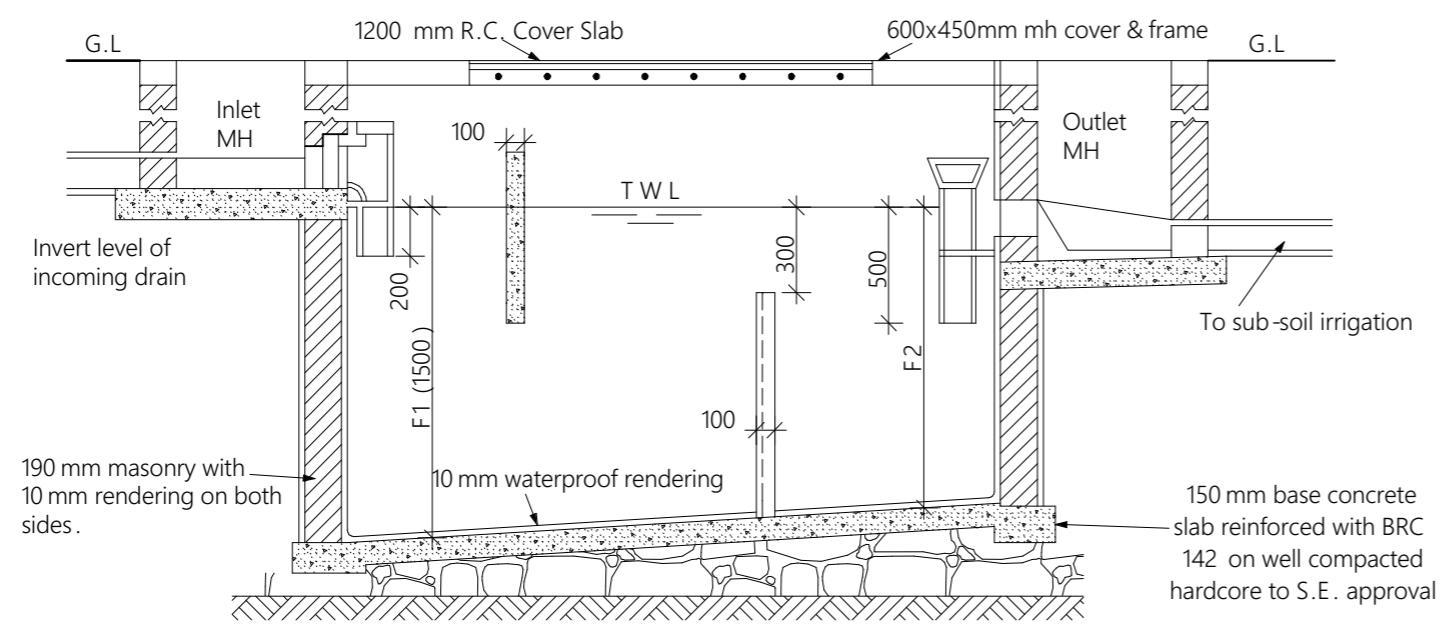
DRAWN BY: ENG. Duale

REVIEWED BY: ENG. D. Wanja

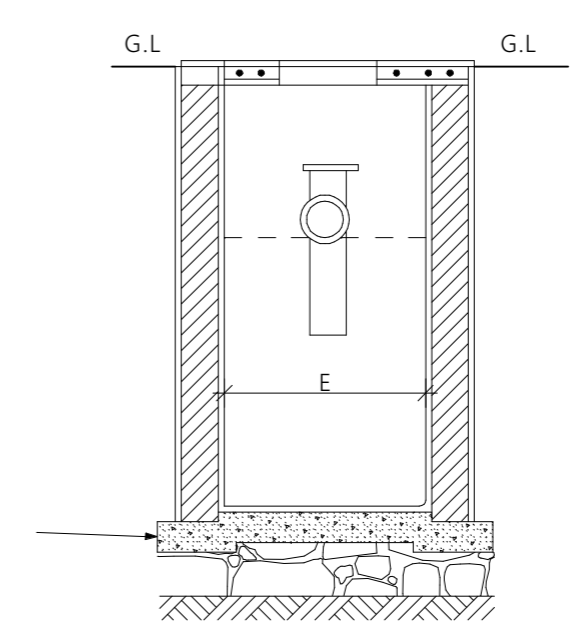
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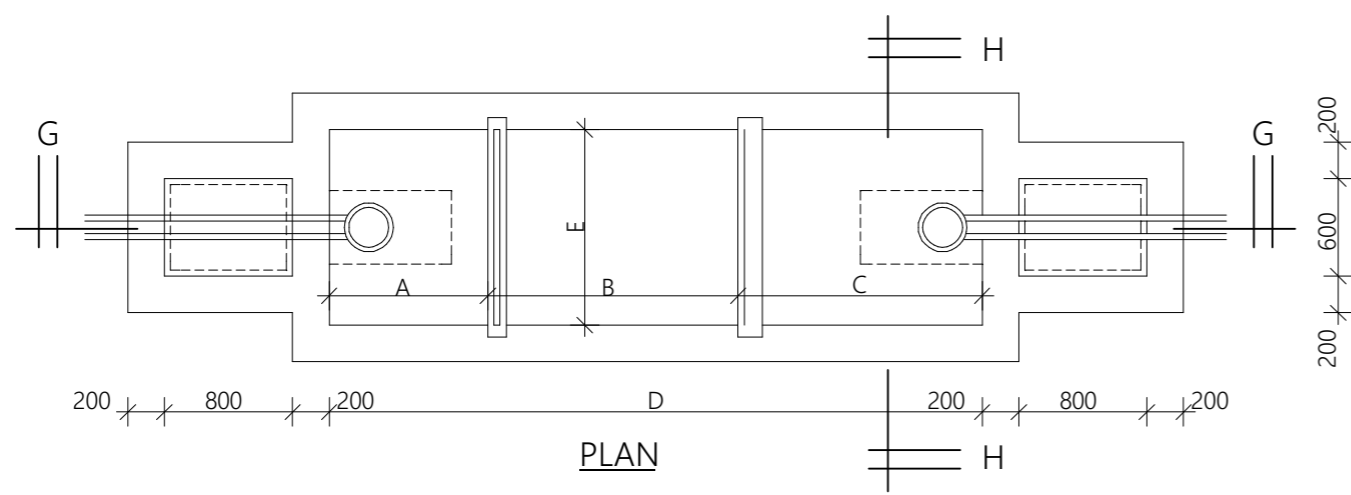
A3



SECTION G - G



SECTION H - H



PLAN

NOTES

- Cover slab to be reinforced with 10 mm dia. bar at 100 mm c/c (conc. 20 / 20 mix 1:2:4)
- Base slab to be conc . class mix 1:3:6
- Outlet and inlet pipes to be 100 mm dia. cast iron.
- Scum baffle to be 100 mm thick reinforced with 2 No. 100 mm at both ends conc 80(20)
- Dividing wall to be 100 mm thick conc. class 20(20) reinforced with weld mesh No. 65.

TYPE	CAPACITY IN LITRES	No. OF PERSONS	DESLUDGING INTERVAL (YRS)	DIMENSIONS IN MM						
				A	B	C	D	E	F1	F2
A	3000	10	2	800	1000	1000	3000	800	1200	1400
B	6000	20	2	800	1400	1200	3600	1400	1500	1400
C	9000	30	2	800	1400	1200	3600	1800	1500	1400
D	12000	40	2	800	1600	1400	4000	2000	1500	1300
E	15000	50	2	800	1600	1400	4000	2400	1500	1200

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THE FEDERAL REPUBLIC OF SOMALIA
HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:
PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:
SEPTIC TANK

SCALE: AS SHOWN
DATE: OCTOBER 2018
DRAWN BY: ENG. Duale
REVIEWED BY: ENG. D. Wanja

Sheet No.
12/31
A3

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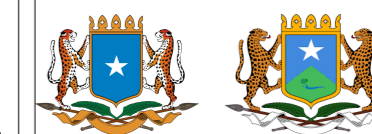
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REVISION		

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The UN Migration Agency

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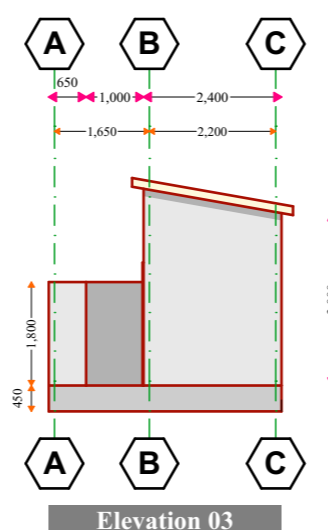
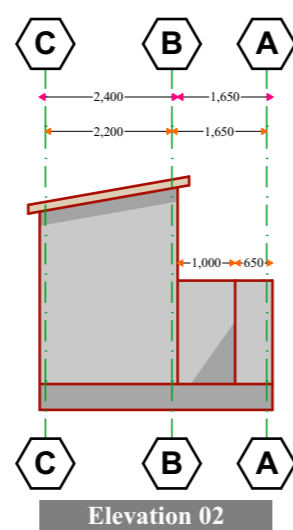
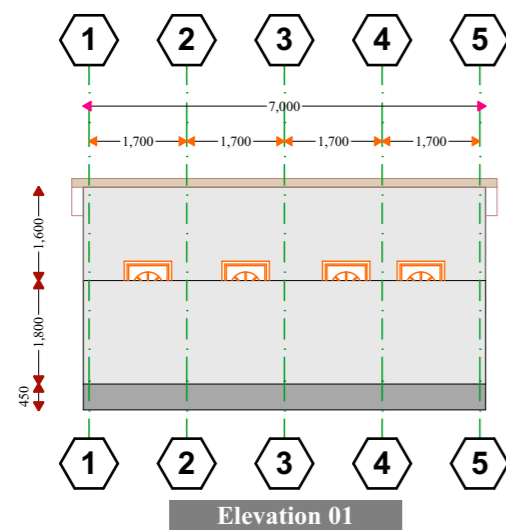
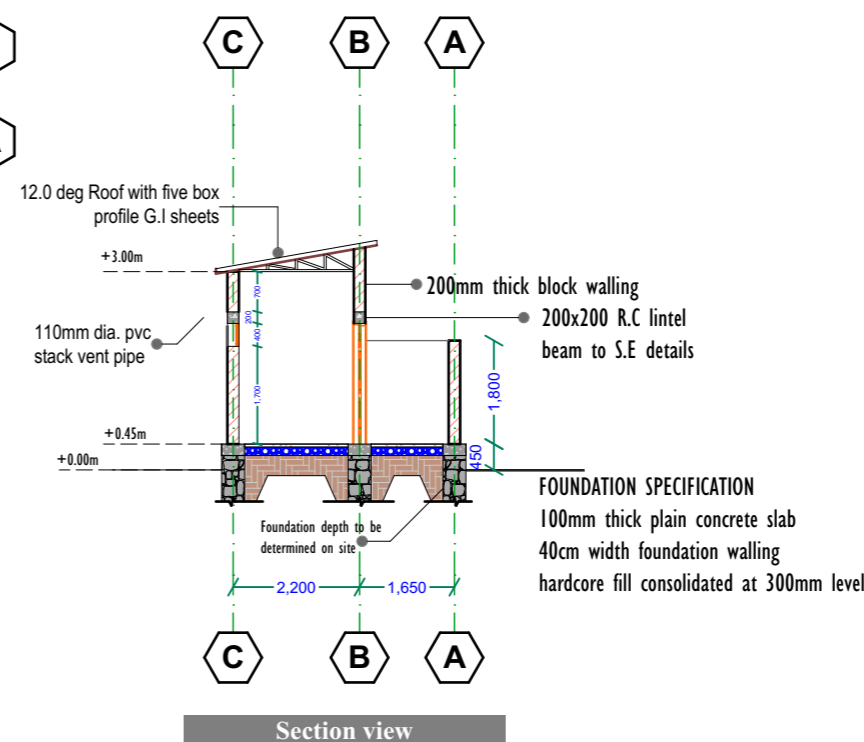
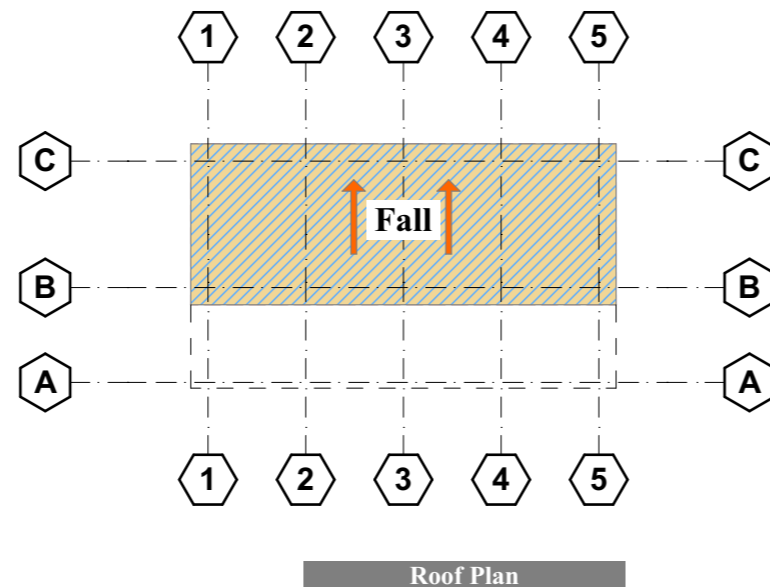
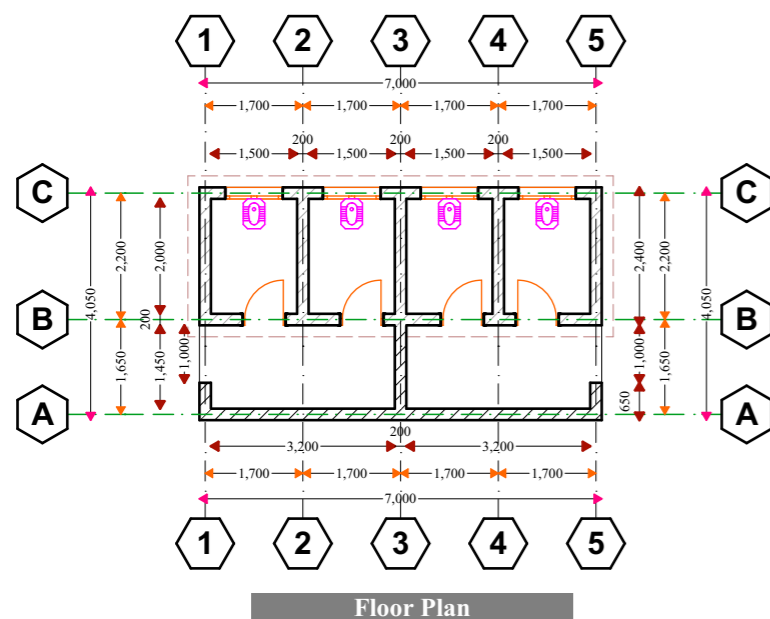
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HIRSHABELLE STATE, BALCAD DISTRICT

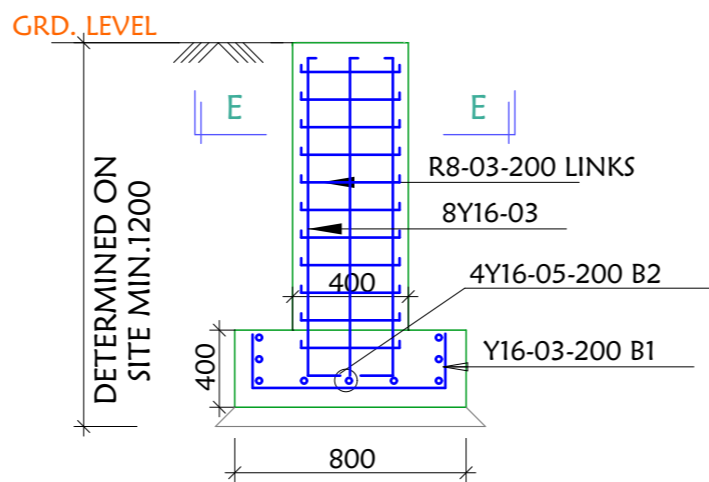
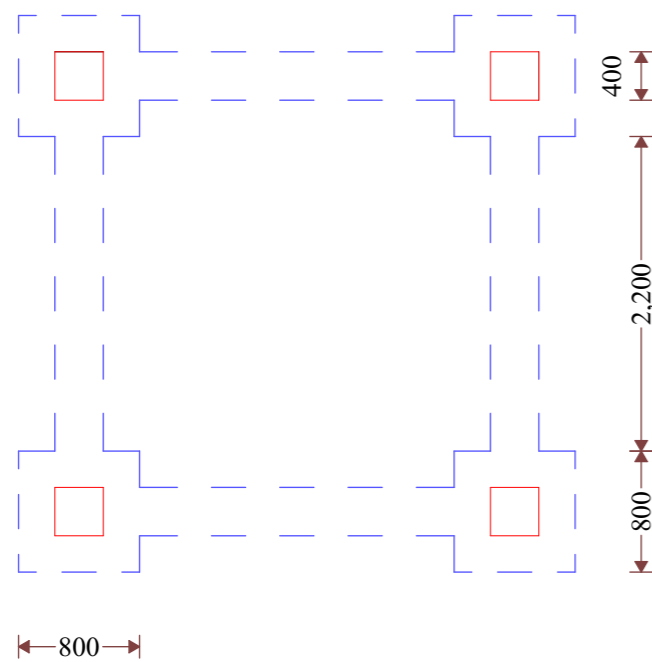
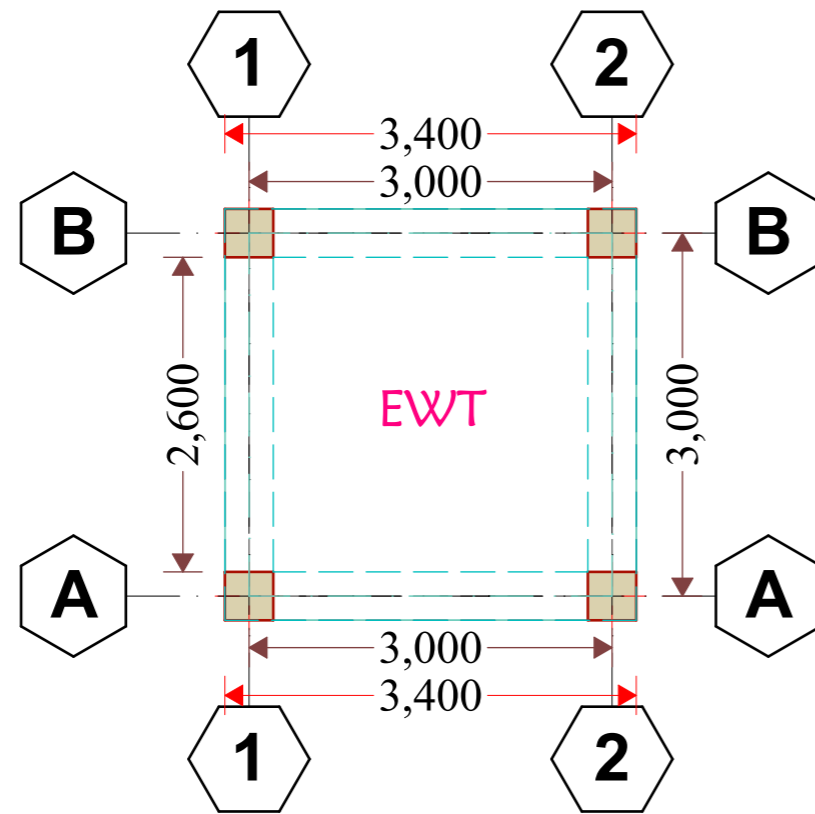
Project Title:
PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:
WASHROOMS

SCALE: AS SHOWN
DATE: OCTOBER 2018
DRAWN BY: ENG. Duale
REVIEWED BY: ENG. D. Wanja

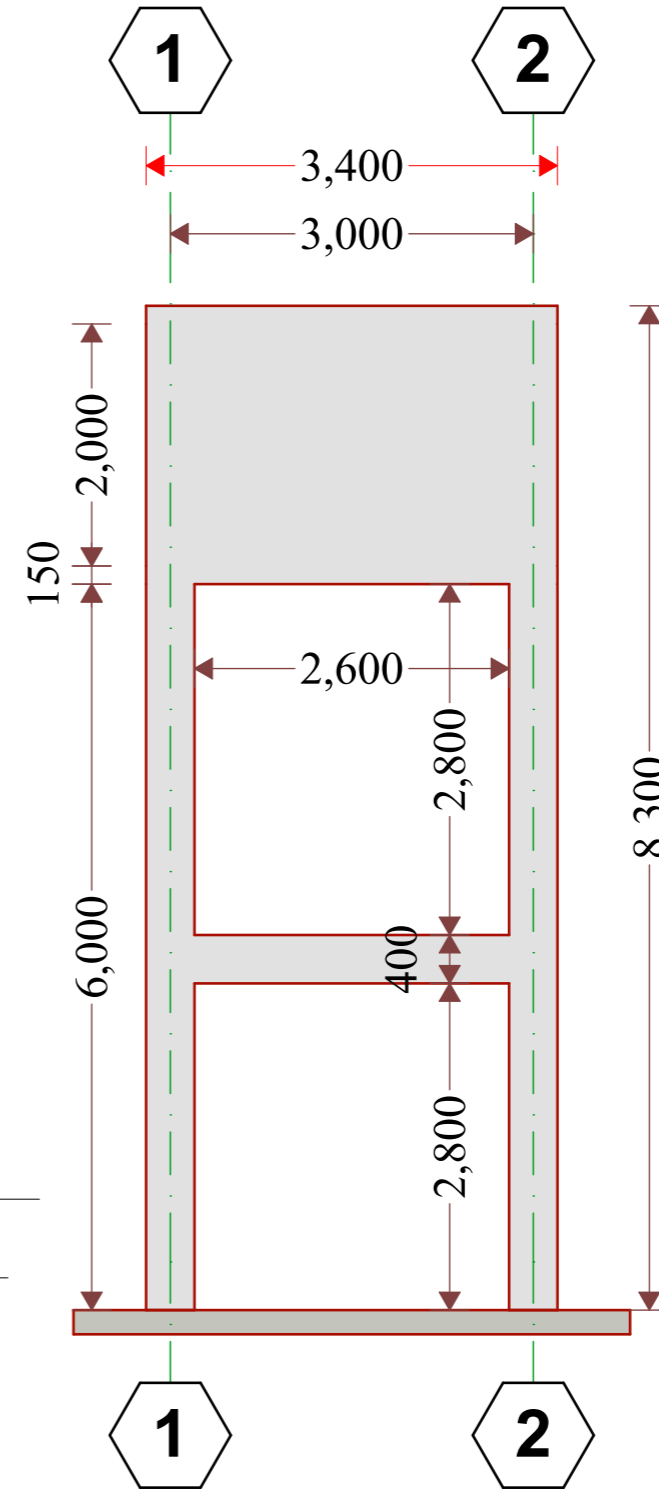
Sheet No.
13/31
A3





SECTION
SCALE 1:25

Elevated Water Tank



Notes

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4. All walls less than 200mm thick are to be reinforced with hoop iron sheet every alternate course.
5. All reinforced concrete works to be done according to structural detail drawings

No:	Date:	Description:
REVISION		

Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC OF SOMALIA
HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

ELEVATED TANK

SCALE: AS SHOWN

DATE: OCTOBER 2018

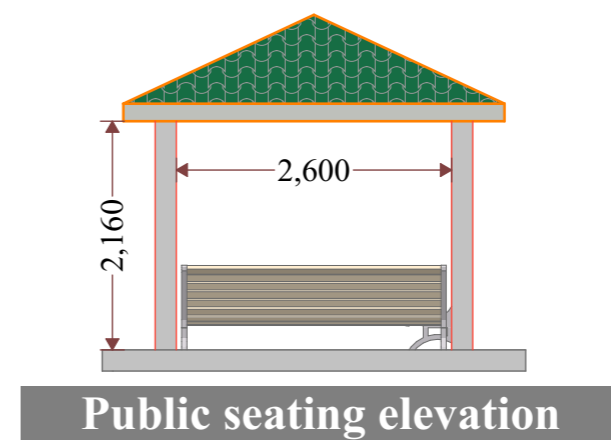
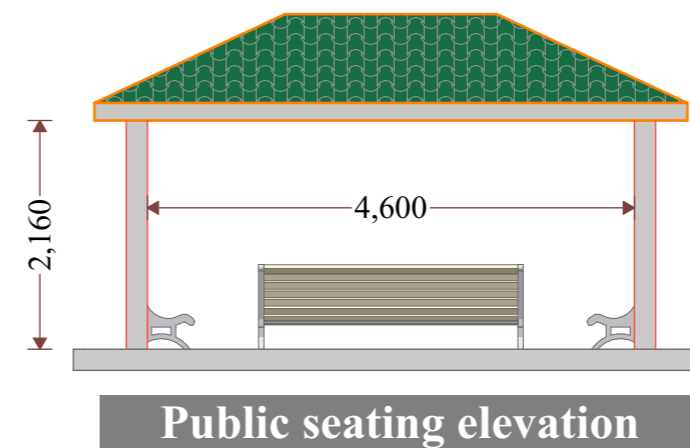
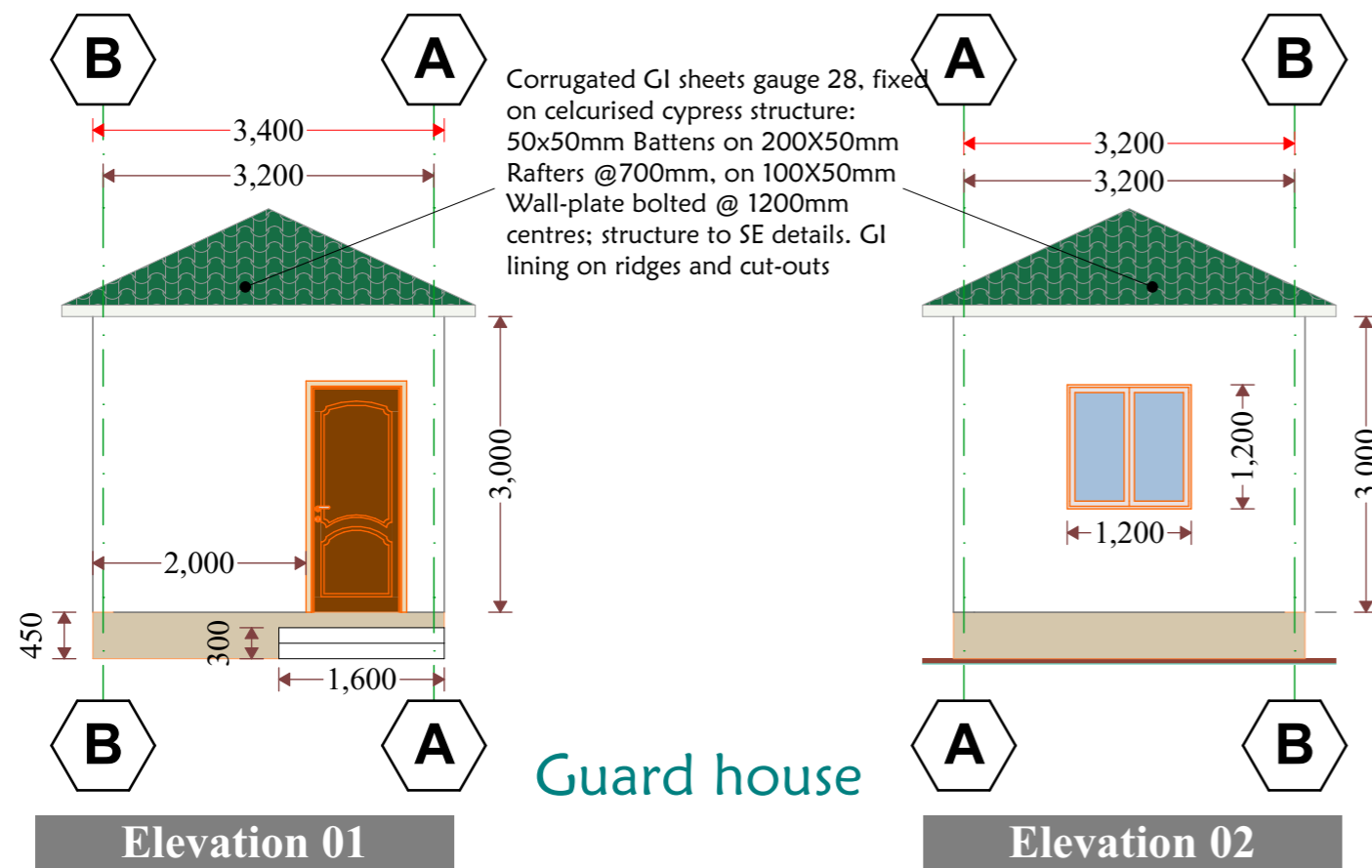
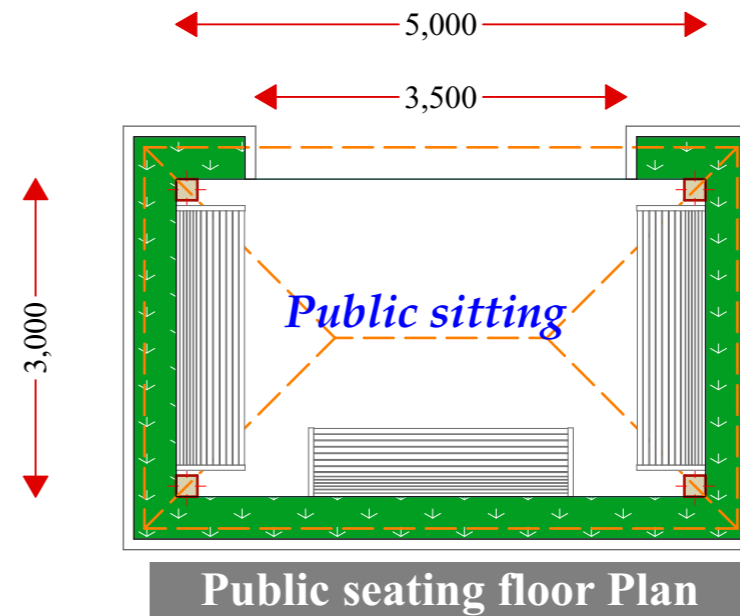
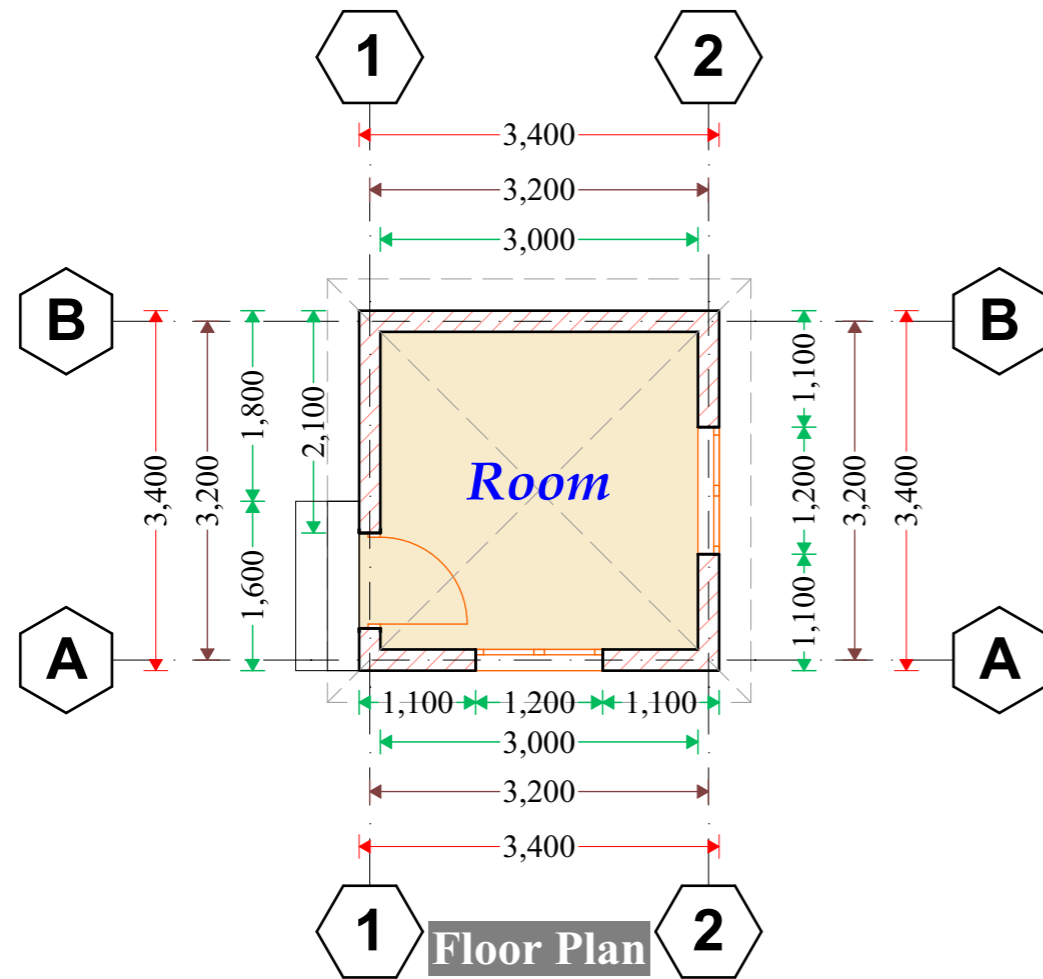
DRAWN BY: ENG. Duale

REVIEWED BY: ENG. D. Wanja

Sheet No.

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A3



Notes

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REVISION		

Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC OF SOMALIA
HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

GUARD HOUSE & PUBLIC SEATING

SCALE: AS SHOWN

DATE: OCTOBER 2018

DRAWN BY: ENG. Duale

REVIEWED BY: ENG. D. Wanja

Sheet No.

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A3



Notes

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No:	Date:	Description:
REVISION		

Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC
OF SOMALIA



HIRSHABELLE STATE,
BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF
REFERRAL HOSPITAL IN BAL'AD
DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 01

SCALE:	AS SHOWN
DATE:	OCTOBER 2018
DRAWN BY:	ENG. Duale
REVIEWED BY:	ENG. D. Wanja

Sheet No.

15/31

A3



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Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC
OF SOMALIA



HIRSHABELLE STATE,
BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF
REFERRAL HOSPITAL IN BAL'AD
DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 02

SCALE: AS SHOWN

DATE: OCTOBER 2018

DRAWN BY: ENG. Duale

REVIEWED BY: ENG. D. Wanja

Sheet No.

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A3



Notes

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Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC
OF SOMALIA



HIRSHABELLE STATE,
BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF
REFERRAL HOSPITAL IN BAL'AD
DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 03

SCALE:	AS SHOWN
DATE:	OCTOBER 2018
DRAWN BY:	ENG. Duale
REVIEWED BY:	ENG. D. Wanja

Sheet No.

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Notes

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Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC OF SOMALIA
HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 04

SCALE: AS SHOWN
DATE: OCTOBER 2018
DRAWN BY: ENG. Duale
REVIEWED BY: ENG. D. Wanja

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Notes

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Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC OF SOMALIA



HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 05

SCALE: AS SHOWN

DATE: OCTOBER 2018

DRAWN BY: ENG. Duale

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REVISION		

Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC
OF SOMALIA



HIRSHABELLE STATE,
BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF
REFERRAL HOSPITAL IN BAL'AD
DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 06

SCALE: AS SHOWN

DATE: OCTOBER 2018

DRAWN BY: ENG. Duale

REVIEWED BY: ENG. D. Wanja

Sheet No.

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Notes

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REVISION		

Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC
OF SOMALIA



HIRSHABELLE STATE,
BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF
REFERRAL HOSPITAL IN BAL'AD
DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 07

SCALE: AS SHOWN

DATE: OCTOBER 2018

DRAWN BY: ENG. Duale

REVIEWED BY: ENG. D. Wanja

Sheet No.

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A3



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Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC
OF SOMALIA



HIRSHABELLE STATE,
BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF
REFERRAL HOSPITAL IN BAL'AD
DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 08

SCALE: AS SHOWN
DATE: OCTOBER 2018
DRAWN BY: ENG. Duale
REVIEWED BY: ENG. D. Wanja

Sheet No.

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A3



Notes

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International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC
OF SOMALIA



HIRSHABELLE STATE,
BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF
REFERRAL HOSPITAL IN BAL'AD
DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 09

SCALE: AS SHOWN

DATE: OCTOBER 2018

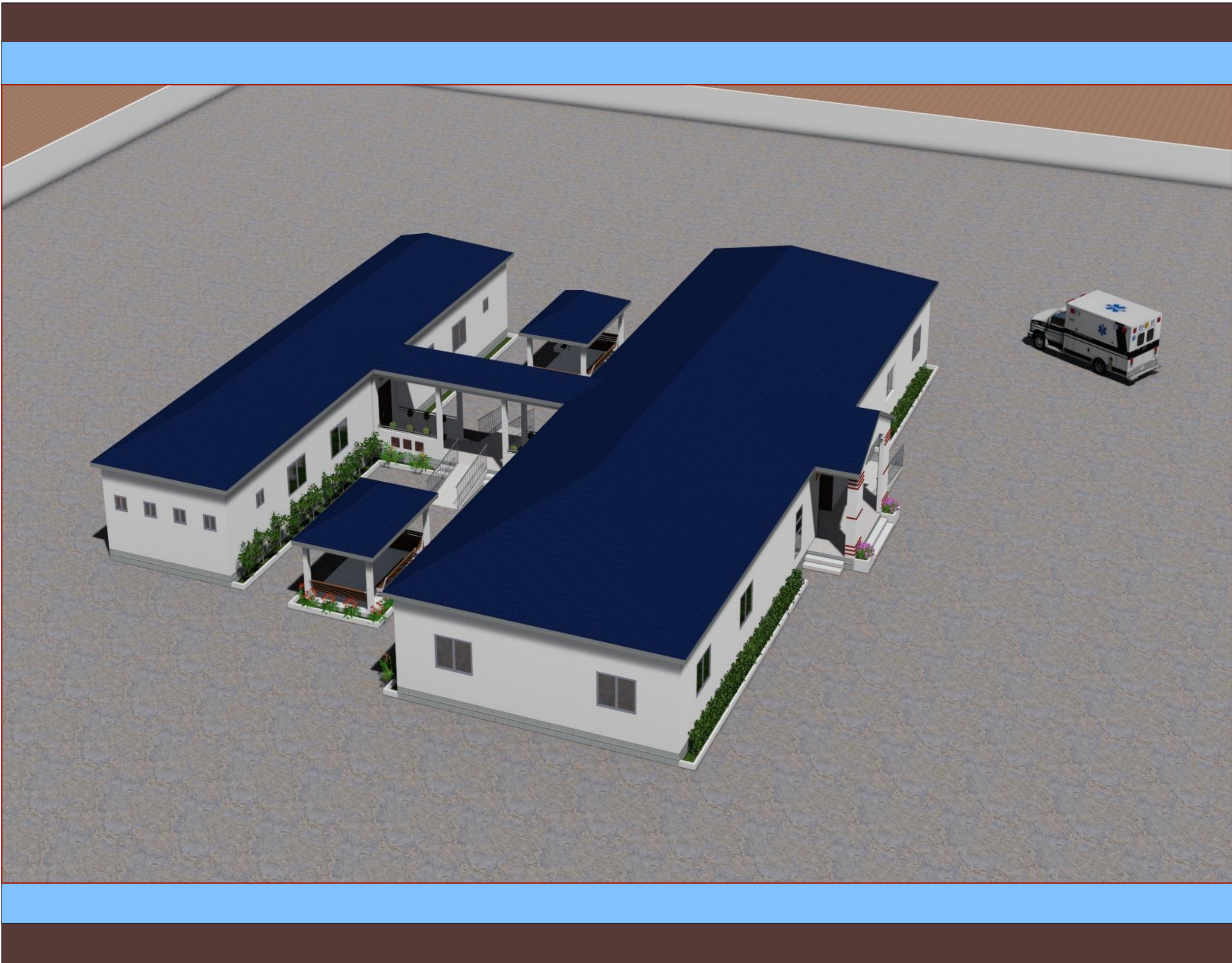
DRAWN BY: ENG. Duale

REVIEWED BY: ENG. D. Wanja

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Notes

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No:	Date:	Description:
REVISION		

Implemented by:

International Organization for Migration (IOM)
The UN Migration Agency

Client:

THE FEDERAL REPUBLIC OF SOMALIA HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:
PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:
3D 10

SCALE: AS SHOWN
DATE: OCTOBER 2018
DRAWN BY: ENG. Duale
REVIEWED BY: ENG. D. Wanja

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A3



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Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC
OF SOMALIA



HIRSHABELLE STATE,
BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF
REFERRAL HOSPITAL IN BAL'AD
DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 11

SCALE: AS SHOWN
DATE: OCTOBER 2018
DRAWN BY: ENG. Duale
REVIEWED BY: ENG. D. Wanja

Sheet No.

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A3



Notes

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No:	Date:	Description:
REVISION		

Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC OF SOMALIA HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 12

SCALE: AS SHOWN
DATE: OCTOBER 2018
DRAWN BY: ENG. Duale
REVIEWED BY: ENG. D. Wanja

Sheet No.

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Notes

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No:	Date:	Description:
REVISION		

Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC
OF SOMALIA



HIRSHABELLE STATE,
BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF
REFERRAL HOSPITAL IN BAL'AD
DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 13

SCALE:	AS SHOWN
DATE:	OCTOBER 2018
DRAWN BY:	ENG. Duale
REVIEWED BY:	ENG. D. Wanja

Sheet No.

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A3



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No:	Date:	Description:
REVISION		

Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC OF SOMALIA
HIRSHABELLE STATE, BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF REFERRAL HOSPITAL IN BAL'AD DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 14

SCALE: AS SHOWN

DATE: OCTOBER 2018

DRAWN BY: ENG. Duale

REVIEWED BY: ENG. D. Wanja

Sheet No.

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Implemented by:



International Organization for Migration (IOM)
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Client:



THE FEDERAL REPUBLIC
OF SOMALIA



HIRSHABELLE STATE,
BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF
REFERRAL HOSPITAL IN BAL'AD
DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 15

SCALE:	AS SHOWN
DATE:	OCTOBER 2018
DRAWN BY:	ENG. Duale
REVIEWED BY:	ENG. D. Wanja

Sheet No.

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Implemented by:



International Organization for Migration (IOM)
The UN Migration Agency

Client:



THE FEDERAL REPUBLIC
OF SOMALIA



HIRSHABELLE STATE,
BALCAD DISTRICT

Project Title:

PROPOSED CONSTRUCTION OF
REFERRAL HOSPITAL IN BAL'AD
DISTRICT, MIDDLE SHABELLE REGION

Drawing Title:

3D 16

SCALE: AS SHOWN
DATE: OCTOBER 2018
DRAWN BY: ENG. Duale
REVIEWED BY: ENG. D. Wanja

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