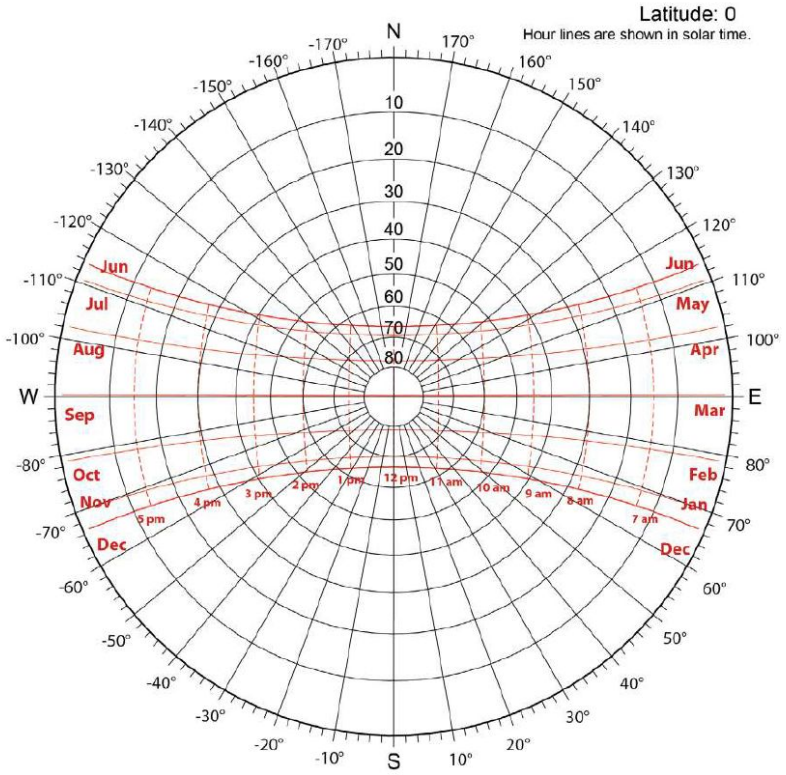
Design for Suubi Centre

Conceptual Plan

Weather in Kampala



Sunpath for Kampala, Uganda

Although Kampala averages pleasant weather through the year, the following are guidelines to provide maximum protection against direct and indirect solar radiation.

- Buildings should be oriented with their long axis running east – west to provide effective shading.
- Openings should be located on the north and south facing façades and avoided on the east and west facing façades to reduce heat gain from the low early morning and late afternoon sun.

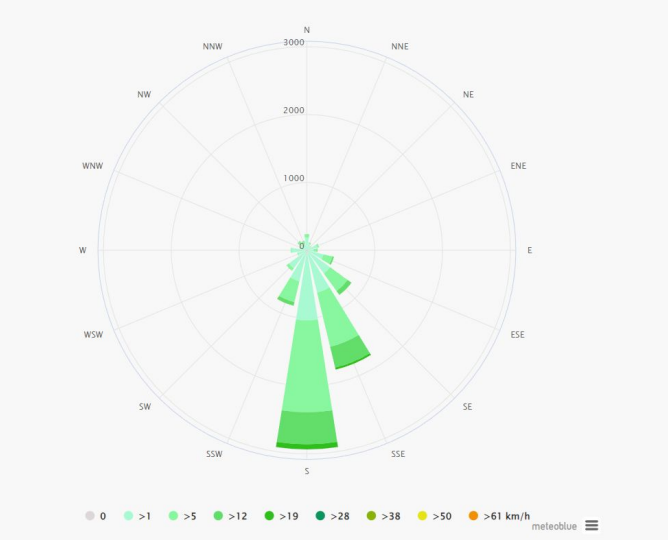
Source: East Africa Bioclimatic Design Guidelines

Weather in Kampala

Average relative humidity in Kampala, Uganda
Source: weather-and-climate.com

Kampala can be described as somewhat Humid, and as long as the dominant breeze can be captured by the house for ventilation, the house will be comfortable.

Designing for Ventilation in Kampala



Windrose diagram for Kampala, Uganda
Source: meteoblue

- Building layout should be widely spaced to avoid obstruction of the wind and allow maximum ventilation around and inside buildings.
- Long and narrow buildings (shallow floor plans) are more suited to this climate as they provide maximum ventilation.
- North and south facing walls should have large and fully openable openings. These openings should preferably be oriented to take advantage of the prevailing breezes to facilitate natural airflow.
- Openings at body level are more effective.

Source: East Africa Bioclimatic Design Guidelines

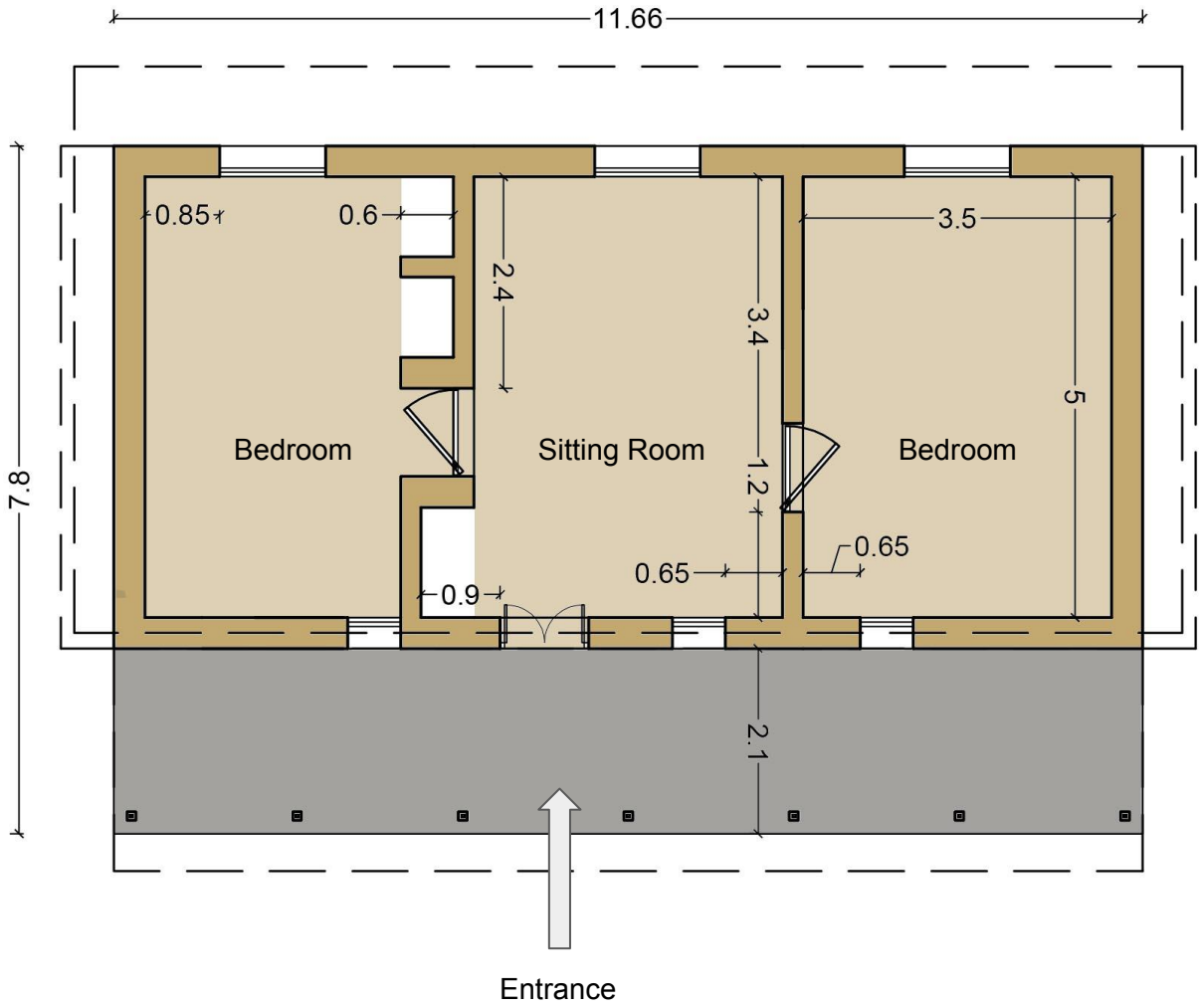
Site Context - Building Placement

As the exact site context is not very clear in the kml file, the following guidelines for situating the building are recommended:

1. Proximity to the road
2. **Least obstruction on the south for the southern breeze**
3. Locating the building in one corner makes possible the use of the rest of the site for other purposes.
4. As far away from the school as possible as those interviewed desired their house to be in a quiet area

Concept Plan

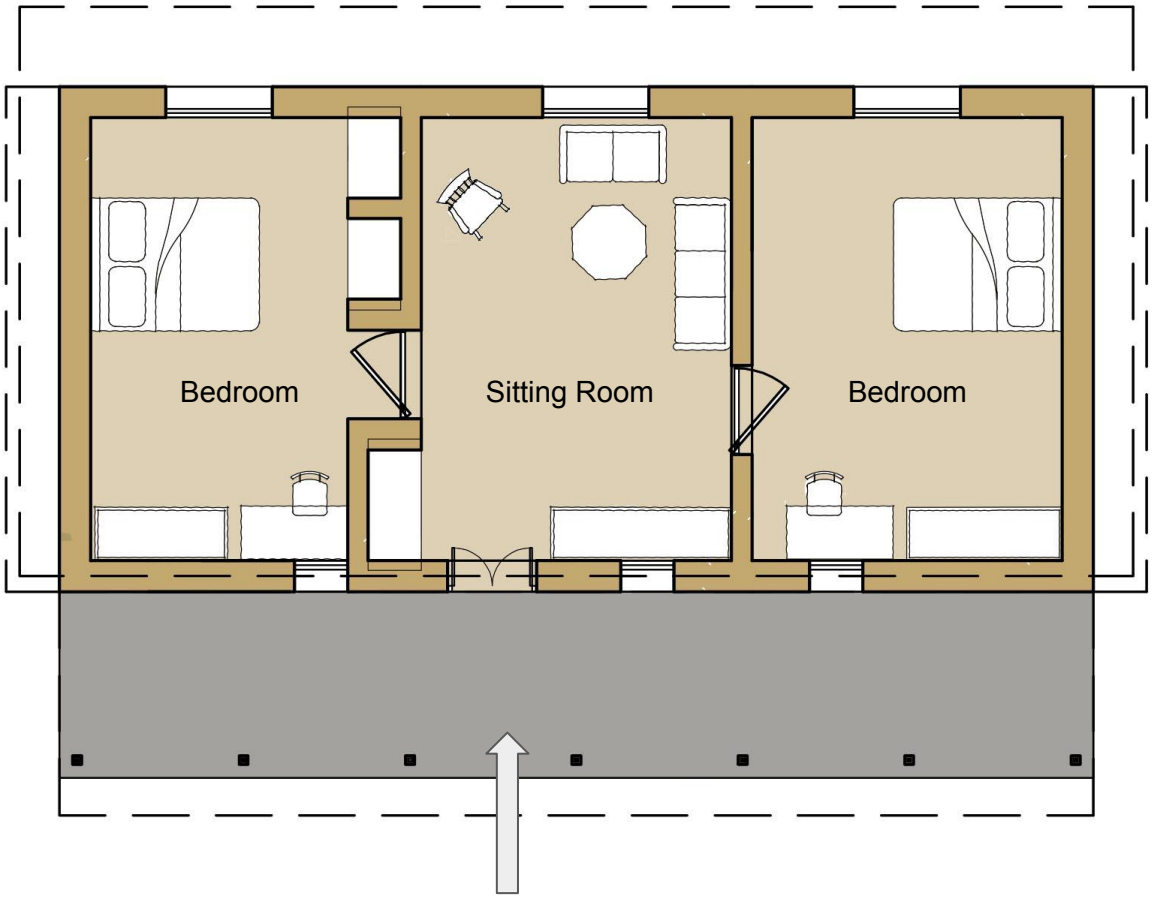
North



Simple linear plan positioned to receive as much wind as possible - smaller windows facing windward side. Some fixed storage space provided in one bedroom and the sitting room so that the family has at least some immediate storage space even if there is no other fixed furniture.

Concept Plan - suggestive loose furniture layout

North



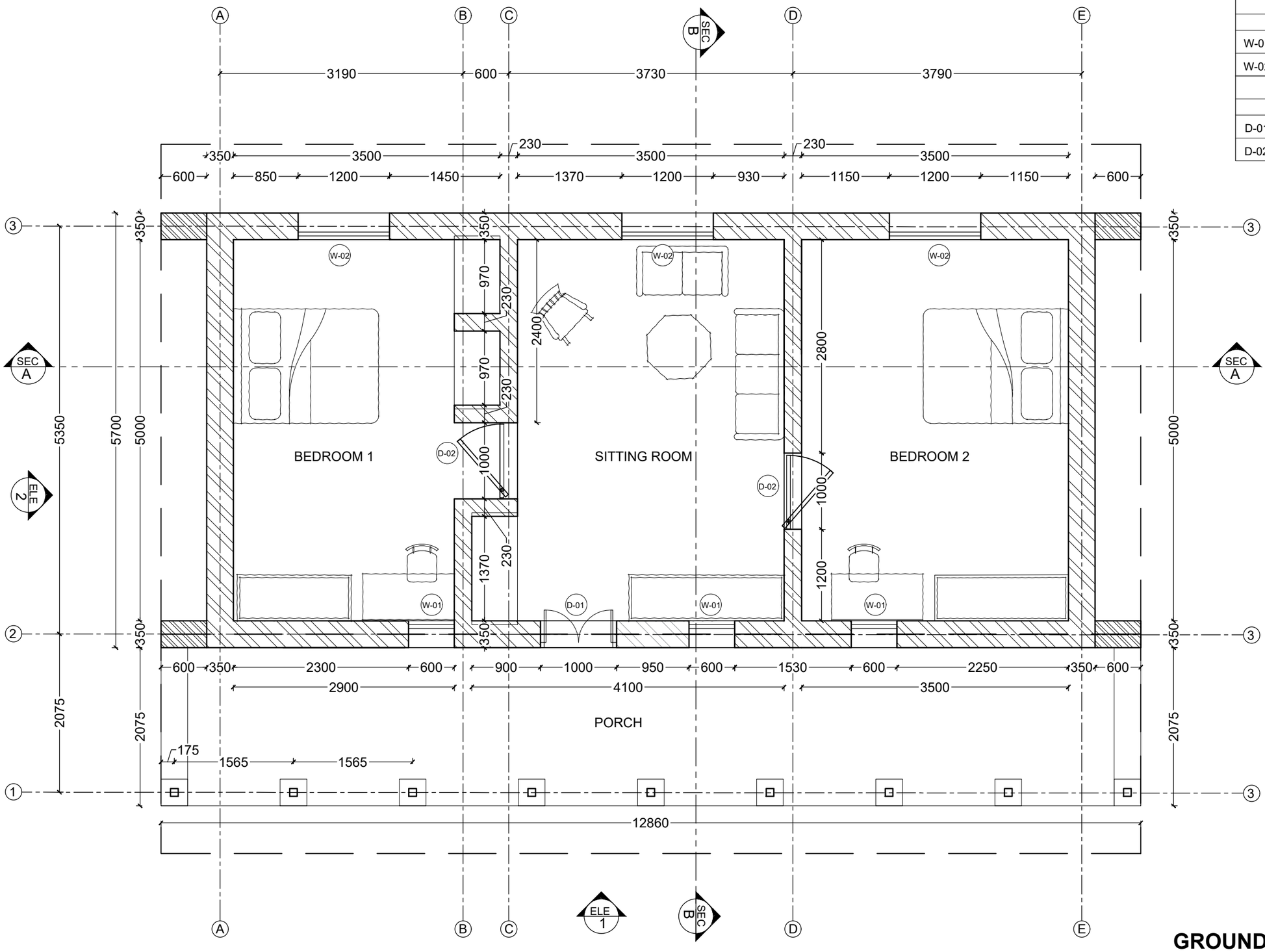
Location of openings makes it easy to use all the corners for loose furniture.

Design for Suubi Centre

Preliminary Working Drawings

DOOR WINDOW SCHEDULE

WINDOWS			
	SILL	LINTEL	WIDTH
W-01	600	2150	600
W-02	600	2150	1200
DOORS			
	SILL	LINTEL	WIDTH
D-01	0	2150	1000
D-02	0	2150	1000



NORTH

GROUND FLOOR PLAN

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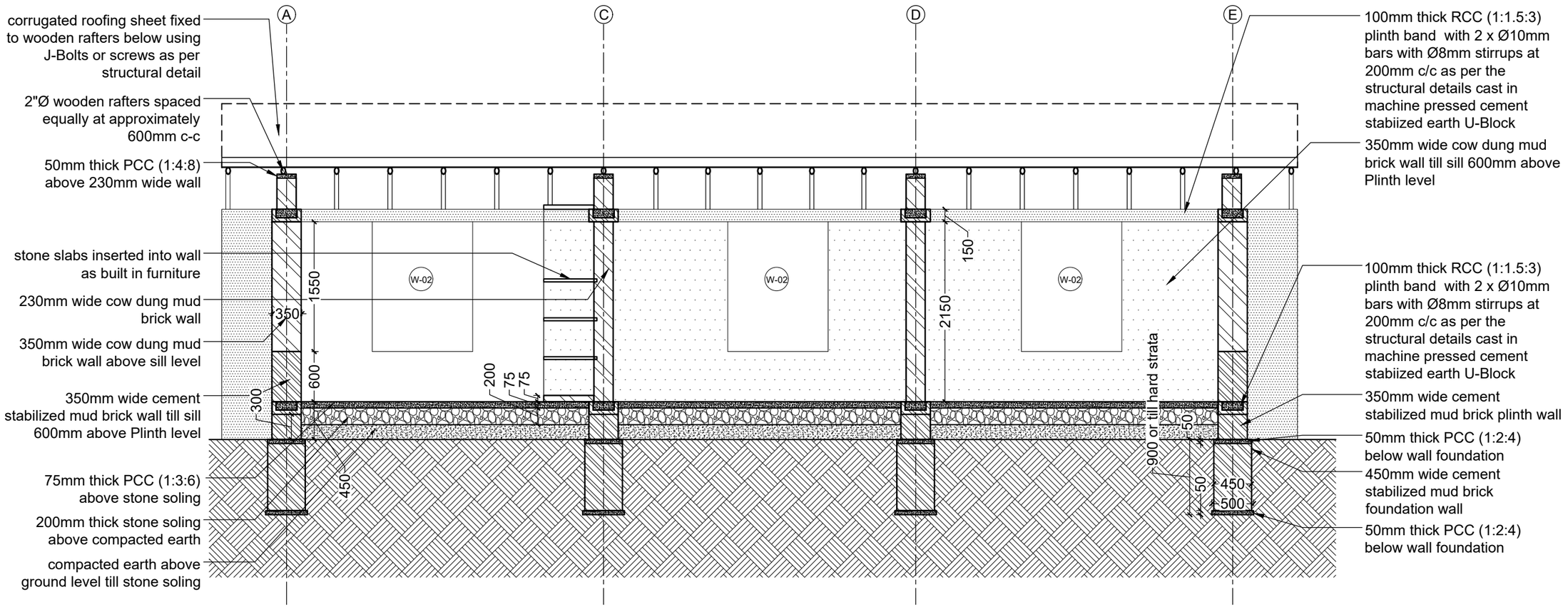
DOOR WINDOW SCHEDULE

WINDOWS			
	SILL	LINTEL	WIDTH
W-01	600	2150	600
W-02	600	2150	1200
DOORS			
	SILL	LINTEL	WIDTH
D-01	0	2150	1000
D-02	0	2150	1000



SECTION AA

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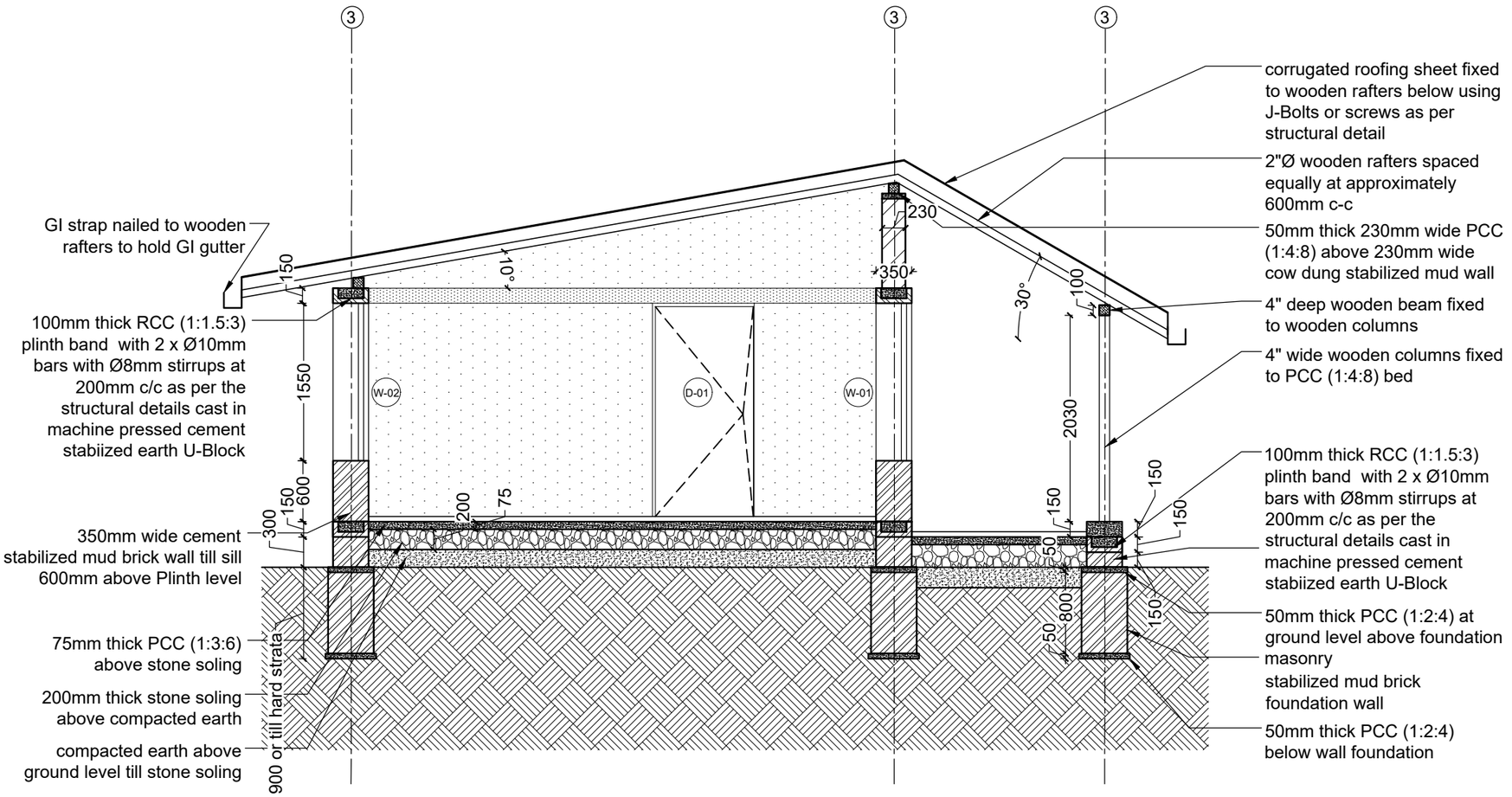
DOOR WINDOW SCHEDULE

WINDOWS			
	SILL	LINTEL	WIDTH
W-01	600	2150	600
W-02	600	2150	1200
DOORS			
	SILL	LINTEL	WIDTH
D-01	0	2150	1000
D-02	0	2150	1000



SECTION BB

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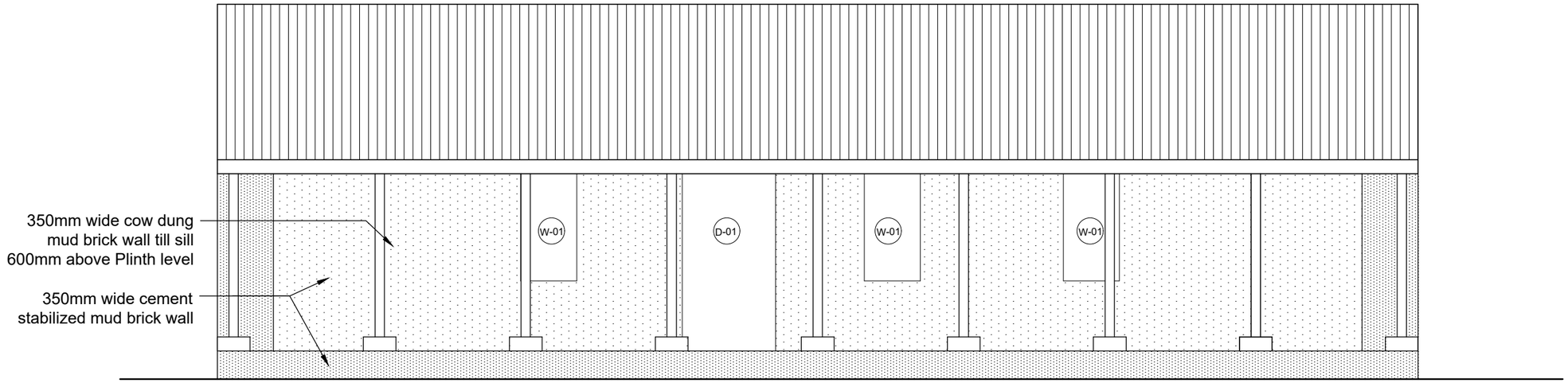
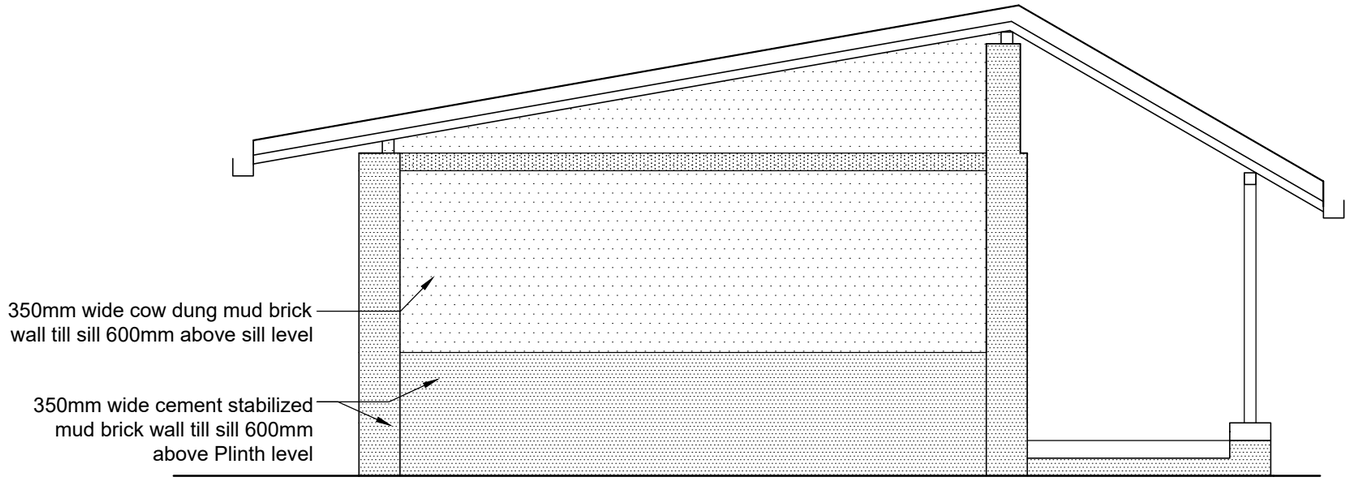
DOOR WINDOW SCHEDULE

WINDOWS			
	SILL	LINTEL	WIDTH
W-01	600	2150	600
W-02	600	2150	1200
DOORS			
	SILL	LINTEL	WIDTH
D-01	0	2150	1000
D-02	0	2150	1000



ELEVATION 1



ELEVATION 2

ELEVATIONS

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