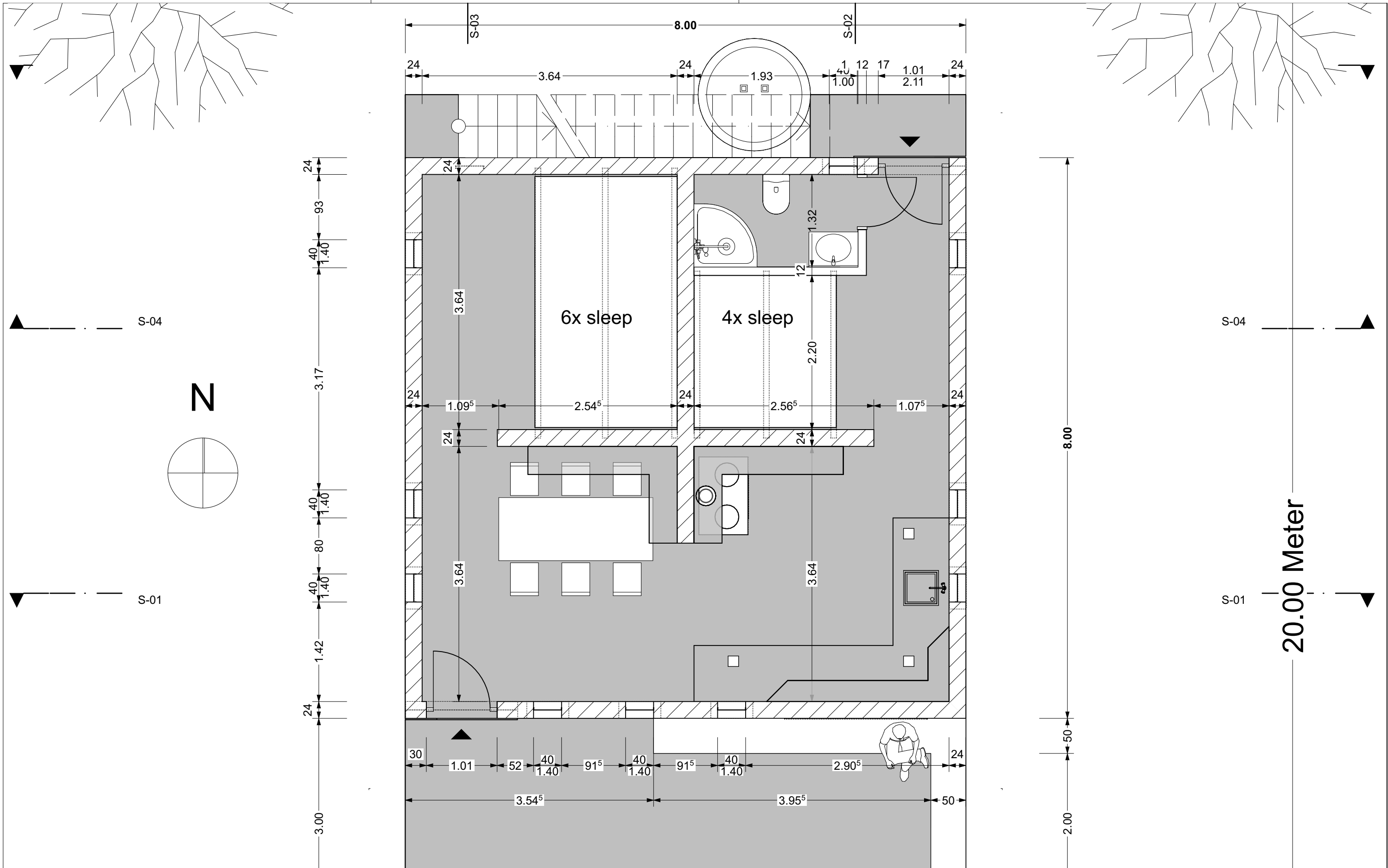


"Double Family House" design Wakiso District / 47.000 USD or 170.000.000 UGS in Uganda in East Africa



Double Urban Wakiso District HOUSE :		MGKB building contractor COMPANY :		ARCHITECT :		BA.01		Perspective / Front	
"Double-Family-House" land 20 x 20 M. a 16 Person Family House in the suburbs		Richard Mugasho / Civil Engineer / 25 % from Kampala / Tel: +256 7554 906 60		Volker Goebel / Switzerland Architect, Diploma-Engineer		Allgemeine Perspektive			
please also see " Rent/Buy contract " for 1 Double-House by two names signature		Jimmy Kasole / Urban Planner / 25 % from Kiboga / Tel: +256 7581 982 00		Gersauerstr. 85 / 6440 Brunnen		Scale	Sheet	Date	Draftman / Architect
project funding cooperation by Centenary Rural Development Bank Ltd / Wakiso / U.		George Botyo / Experienced Builder / 25 % from Kampala / Tel: +256 7552 365 28		Tel: +41 41 820 06 58 Mob: +41 79 424 61 48		1:1.54	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel
		Volker Goebel / Dipl.-Ing., Architect / 25 %		E-Mail: info@ing-goebel.ch Web: www.ing-goebel.ch		Dateiname: Double_Wakiso_Family_House_Building_Plans.pln			
						Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			

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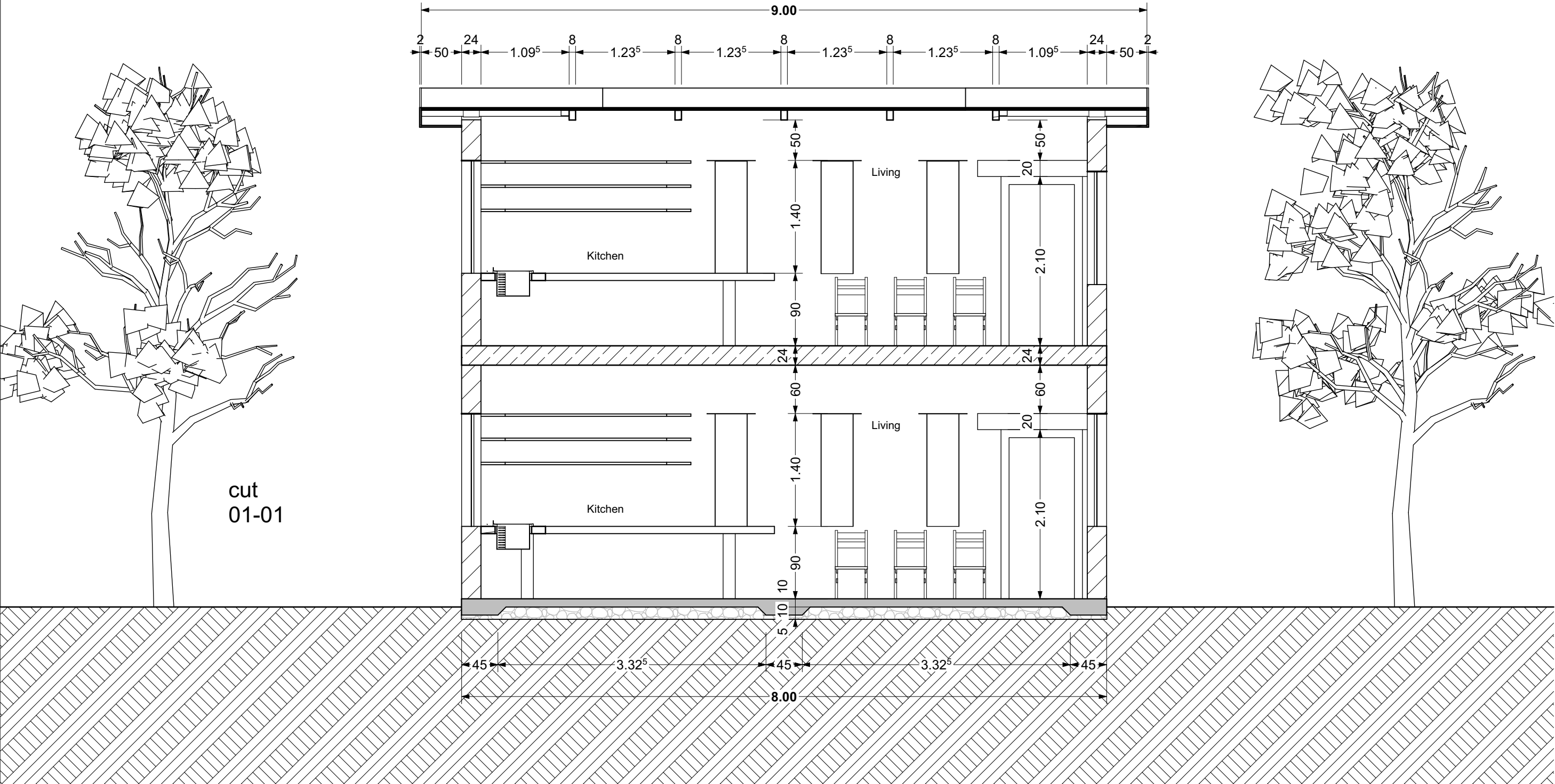
Double Urban Wakiso District HOUSE :		MGKB building contractor COMPANY :		ARCHITECT :		BA.02		Floorplan/Roofplan	
"Double-Family-House" land 20 x 20 M. a 16 Person Family House in the suburbs		Richard Mugasho / Civil Engineer / 25 % from Kampala / Tel: +256 7554 906 60		Volker Goebel / Switzerland Architect, Diploma-Engineer		0. EG			
please also see " Rent/Buy contract " for 1 Double-House by two names signature		Jimmy Kasole / Urban Planner / 25 % from Kiboga / Tel: +256 7581 982 00		Gersauerstr. 85 / 6440 Brunnen		Scale	Sheet	Date	Draftman / Architect
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						Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			

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This is a detailed architectural section drawing of a two-story residential building. The exterior walls are rendered in a reddish-brown color, while the interior walls are a lighter shade of red. The roof is flat and grey, with a central chimney. A wide staircase with grey steps and a metal railing runs through the center of the house, connecting the ground floor to the upper level. On the ground floor, there is a large living area on the right and a kitchen area on the left, which includes a white countertop and a blue cabinet. A white door is located on the left side of the ground floor. The upper floor features a large living area on the right and a bedroom on the left, which has a white door and a window. The house is flanked by two trees with green foliage and brown trunks. The ground is represented by a brown, textured area at the bottom of the drawing.

Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln

"Double Family House" design Wakiso District / 47.000 USD or 170.000.000 UGS in Uganda in East Africa



Double Urban Wakiso District HOUSE :

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a 16 Person Family House in the suburbs

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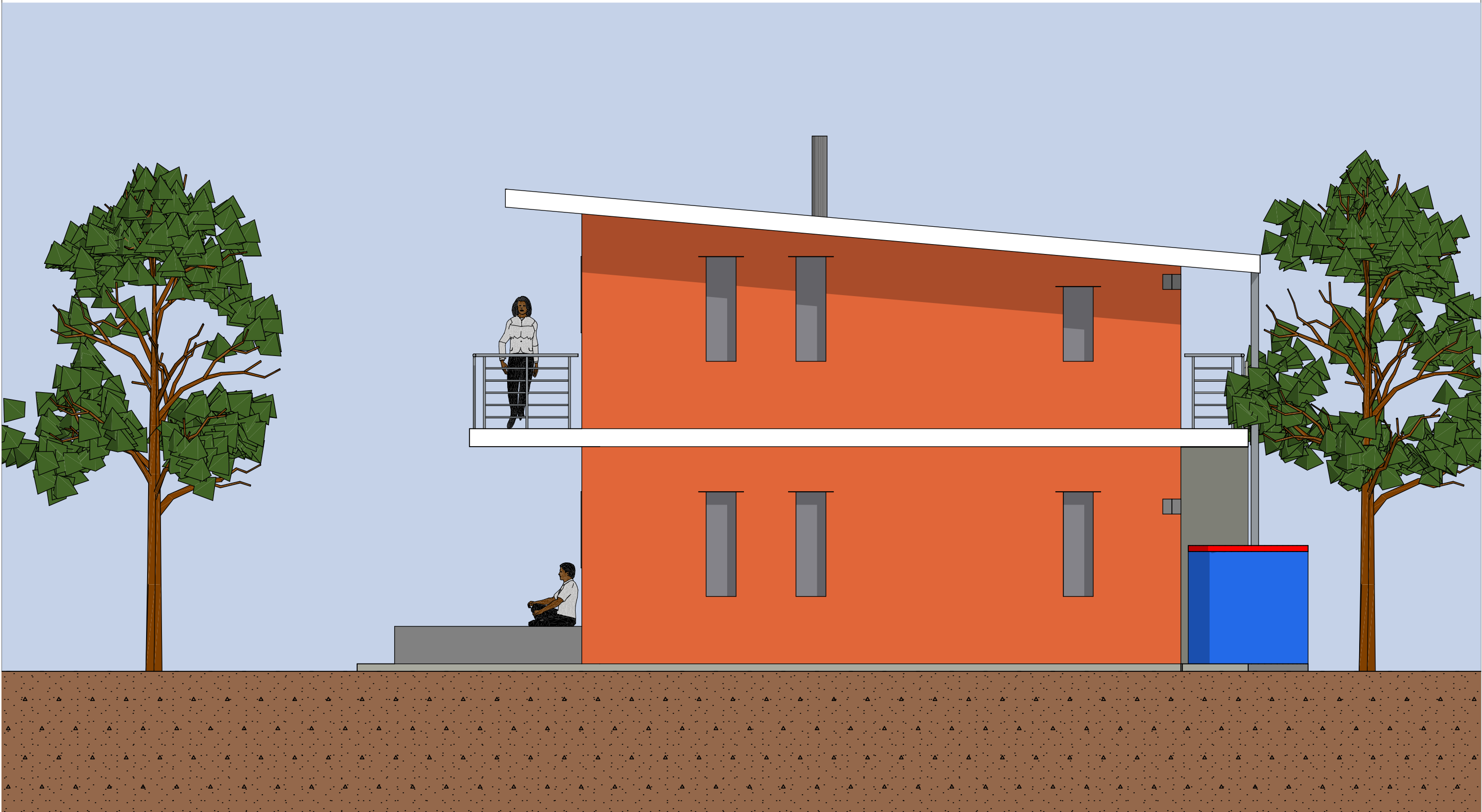
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BA.04		Cut 01-01	
S-01 Schnitt A-A			
Scale	Sheet	Date	Draftman / Architect
1:50	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel
Dateiname: Double_Wakiso_Family_House_Building_Plans.pln			
Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			

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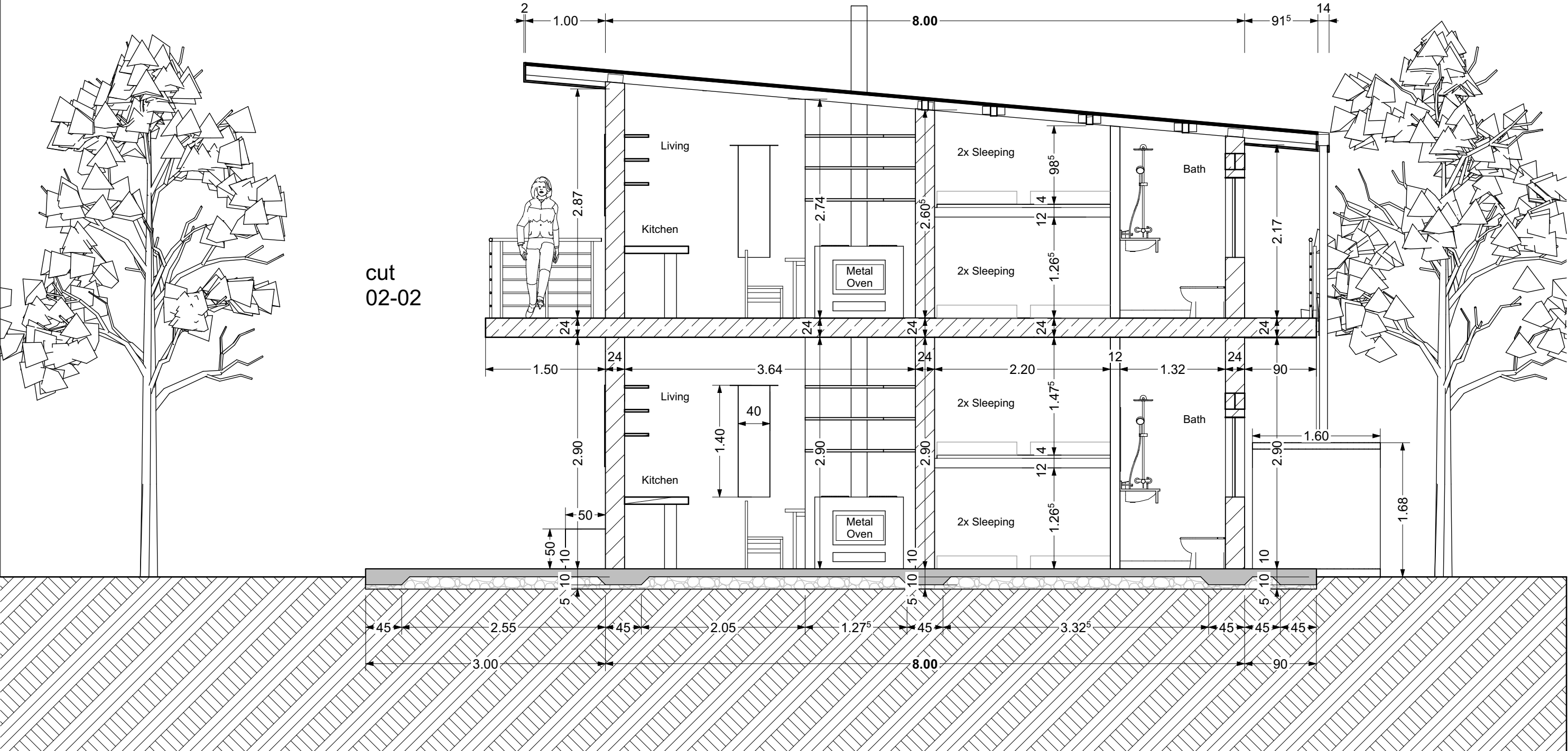
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BA.05		Elevation 2	
A-02 Ansicht Nord			
Scale	Sheet	Date	Draftman / Architect
1:50	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel
Dateiname: Double_Wakiso_Family_House_Building_Plans.pln			
Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			

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BA.06

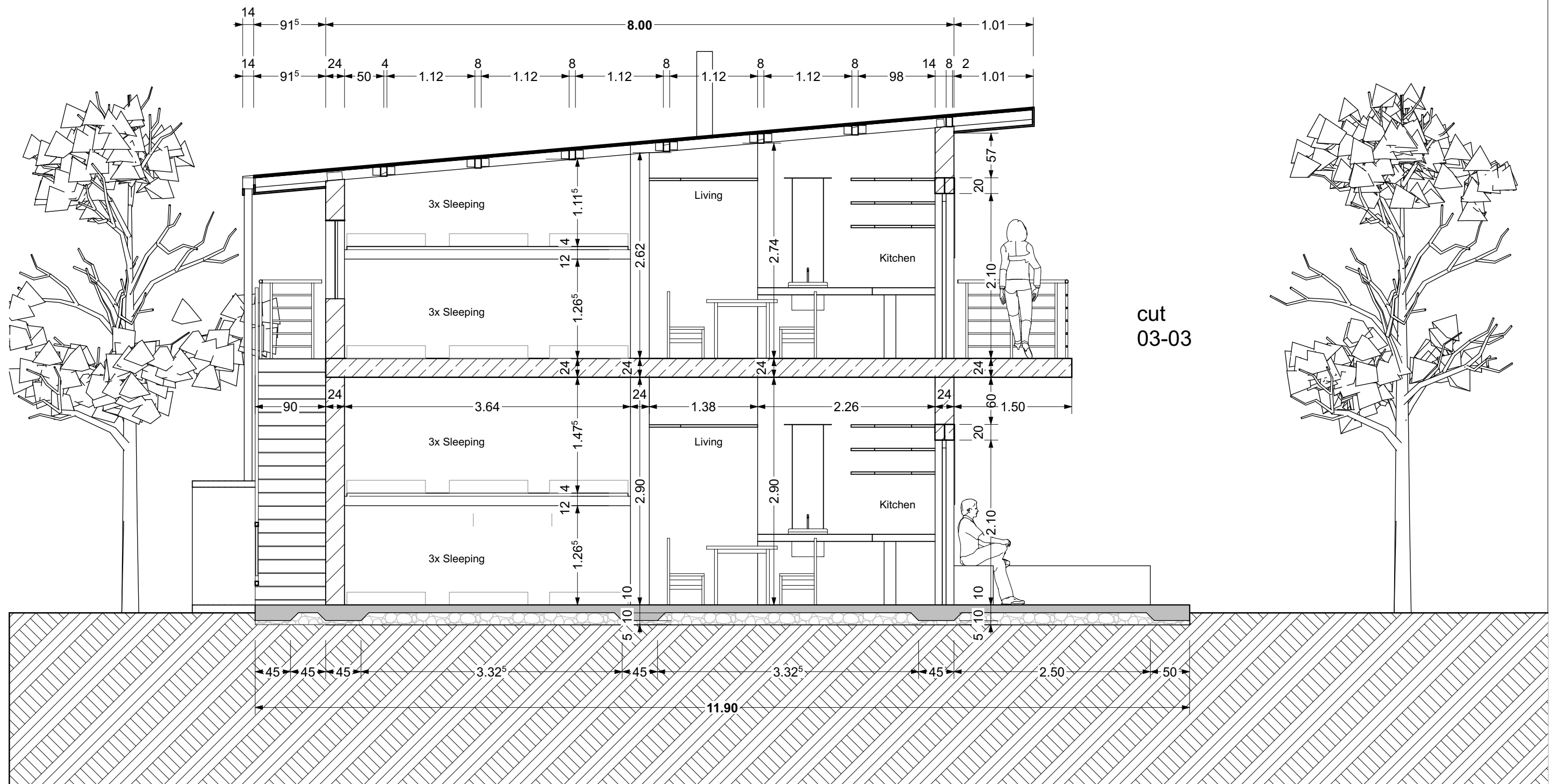
Cut 02-02

S-02 Schnitt A-A			
Scale	Sheet	Date	Draftman / Architect
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Dateiname: Double_Wakiso_Family_House_Building_Plans.pln			
Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			

This is an architectural elevation drawing of a two-story building. The building has a red facade with a white horizontal band separating the two floors. On the ground floor, there is a white door on the left and a large, light gray rectangular window on the right. A person is sitting on a gray ledge in front of the ground floor window. The second floor features a balcony with a metal railing, a white door on the left, and three narrow vertical windows. A person is walking on the balcony. A small chimney is visible on the roof. The building is flanked by two trees with green foliage and brown trunks. The background is a light blue sky, and the foreground is a brown, textured ground surface.

Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln

"Double Family House" design Wakiso District / 47.000 USD or 170.000.000 UGS in Uganda in East Africa



Double Urban Wakiso District HOUSE :

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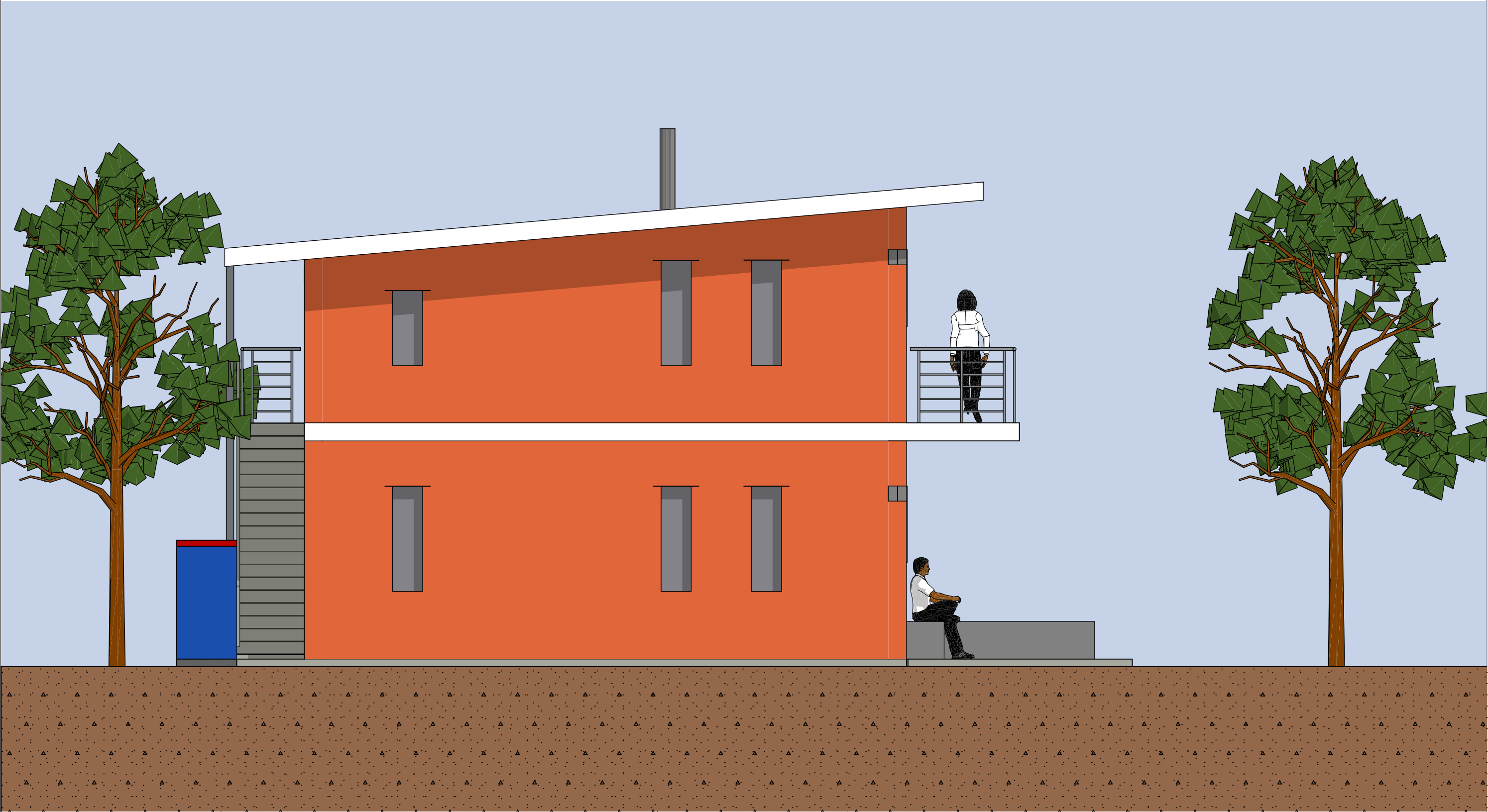
BA.08

Cut 03-03

S-03 Schnitt A-A

Scale	Sheet	Date	Draftman / Architect
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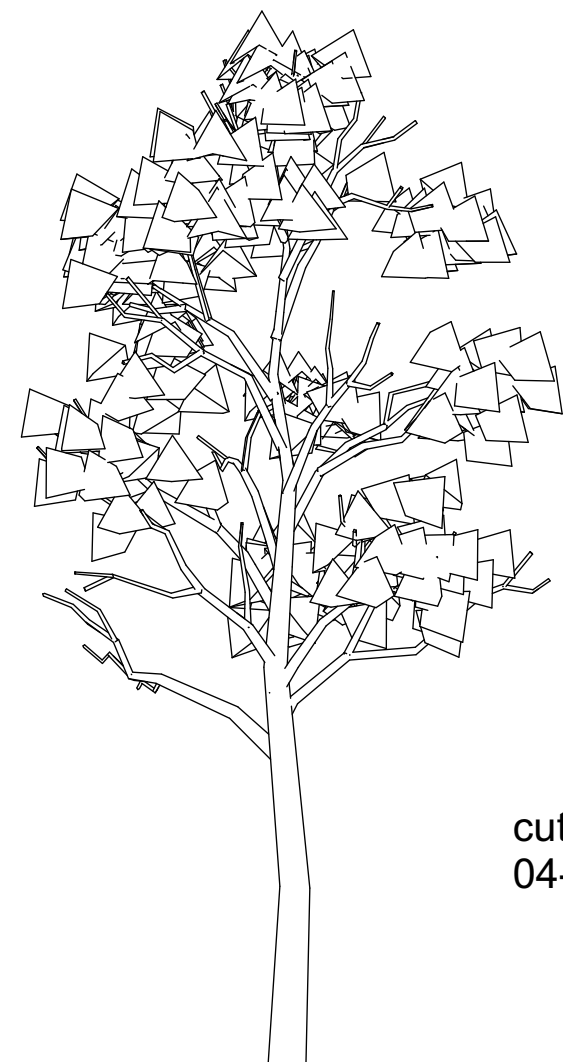
Gersauerstr. 85 / 6440 Brunnen

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Mob: +41 79 424 61 48

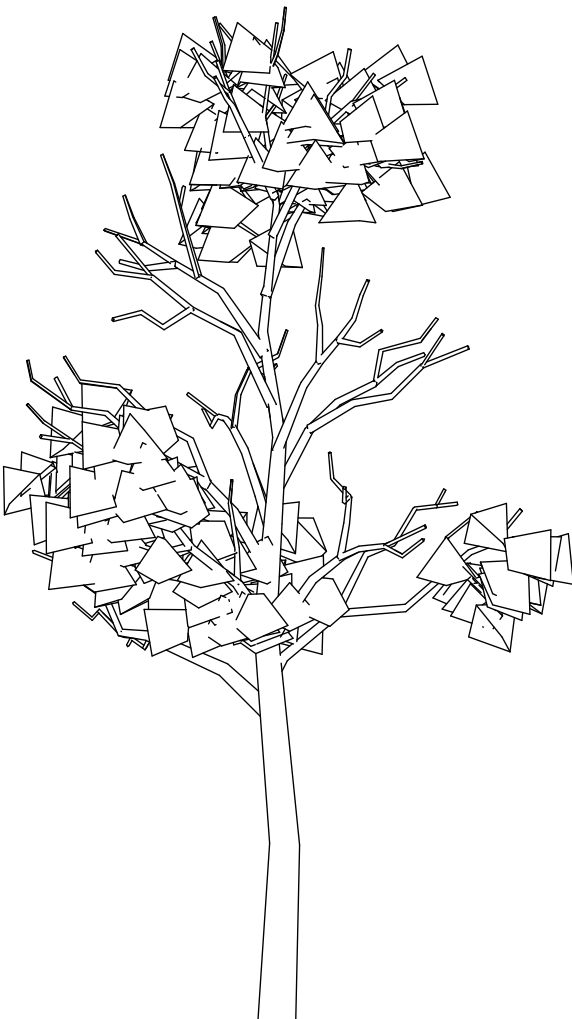
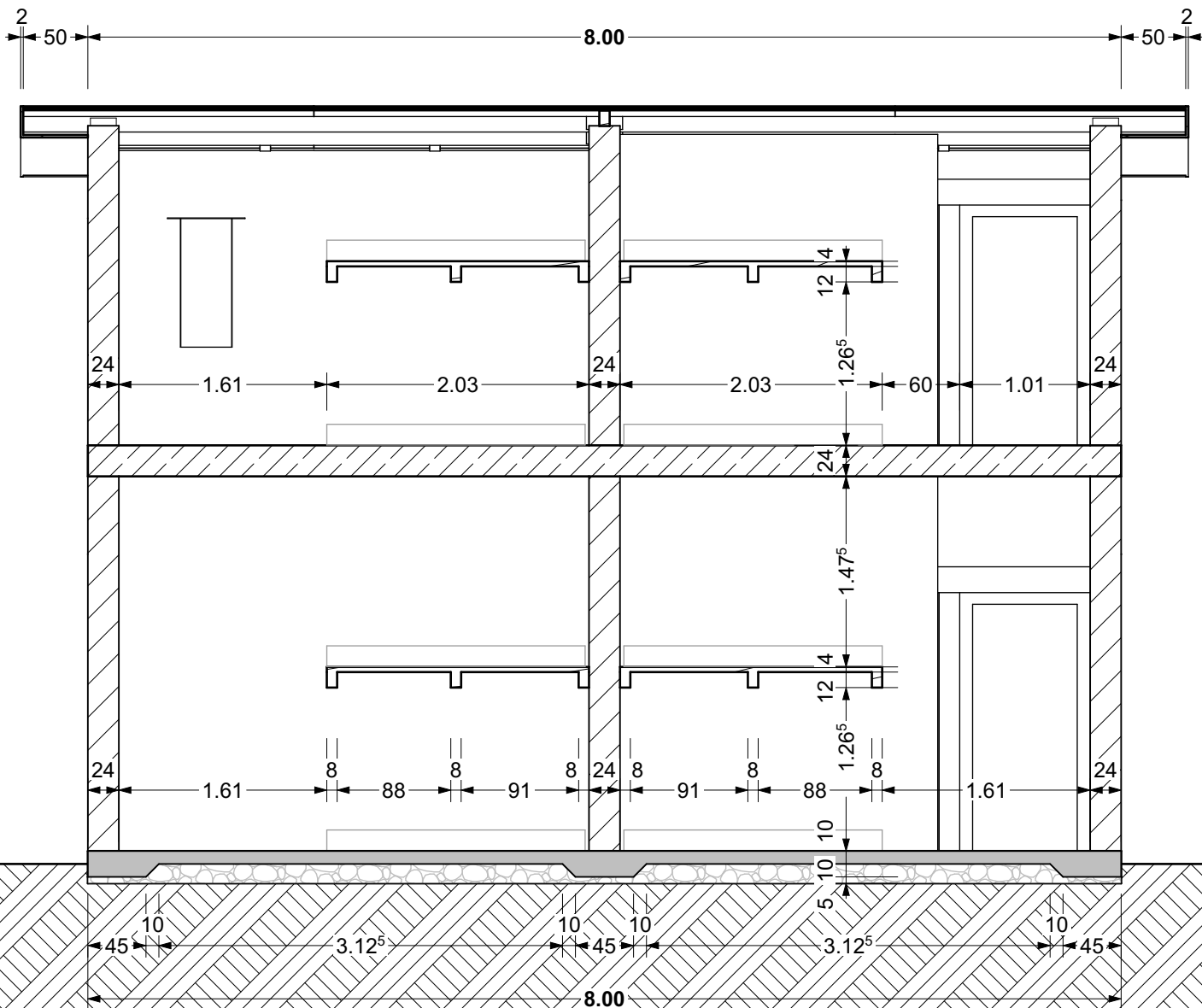
E-Mail: info@ing-goebel.ch
Web: www.ing-goebel.ch

BA.09		Elevation 4	
A-04 Ansicht Nord			
Scale	Sheet	Date	Draftman / Architect
1:50	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel
Dateiname: Double_Wakiso_Family_House_Building_Plans.pln			
Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			

"Double Family House" design Wakiso District / 47.000 USD or 170.000.000 UGS in Uganda in East Africa



cut
04-04



Double Urban Wakiso District HOUSE :

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BA.10

Cut 04-04

S-04 Schnitt A-A			
Scale	Sheet	Date	Draftman / Architect
1:50	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel
Dateiname: Double_Wakiso_Family_House_Building_Plans.pln			
Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			

"Double Family House" design Wakiso District / 47.000 USD or 170.000.000 UGS in Uganda in East Africa
first building land for Family House is found in "Namusela" - that is 5 km to Wakiso town centre - sale is open !



Double Urban Wakiso District HOUSE :		MGKB building contractor COMPANY :		ARCHITECT :		BA.11		Frontside Perspective	
"Double-Family-House" land 20 x 20 M. a 16 Person Family House in the suburbs		Richard Mugasho / Civil Engineer / 25 % from Kampala / Tel: +256 7554 906 60		Volker Goebel / Switzerland Architect, Diploma-Engineer		Allgemeine Perspektive (4)			
please also see " Rent/Buy contract " for 1 Double-House by two names signature		Jimmy Kasole / Urban Planner / 25 % from Kiboga / Tel: +256 7581 982 00		Gersauerstr. 85 / 6440 Brunnen		Scale	Sheet	Date	Draftman / Architect
project funding cooperation by Centenary Rural Development Bank Ltd / Wakiso / U.		George Botyo / Experienced Builder / 25 % from Kampala / Tel: +256 7552 365 28		Tel: +41 41 820 06 58 Mob: +41 79 424 61 48		1:1.67	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel
		Volker Goebel / Dipl.-Ing., Architect / 25 %		E-Mail: info@ing-goebel.ch Web: www.ing-goebel.ch		Dateiname: Double_Wakiso_Family_House_Building_Plans.pln			
						Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			

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Description of Double Wakiso Family House by the architect Volker Goebel / Dipl.-Ing. / Brunnen / Switzerland / 26. August 2017 / Version 1.0.4

It is a good house because i gives living and sleeping space for 10 children and 4 care-taker-parents = very good capacity / very effective & useful

It is a good house because all the materials used are usual in Uganda : red clay stones, wood planks, sheet metal roofing and cement / concrete

It is a country house that comes with 20 x 20 meter land - you can rent it or you can rent/buy it with a contract from the Centenary Dev. Bank Ltd.

The roof is simple sheet metal roof under an angle of 5° - that is "much cheaper and more effective then the old but complex V-style saddle roof".

The wooden roof boxing on the outside makes it look much thicker then it is. Its "shows" a very solid appearance. The roof is very easy to repair.

The roof can be covered with local kikau leaves to give it a "traditional look" and that the rain can't play its music so loud on the sheet metal roof.

The rainwater gutters on the back collect 100 % of the rain water from the roof into a round tank - the big tank supplies water to the bathroom WC

Real solid doors and windows with perforated sheet metal blendings secure the house owners things and give the house owners a certain security

The high vertical window openings let air in constantly, they secure a certain privacy but the children can look out well and can even see the sky ...

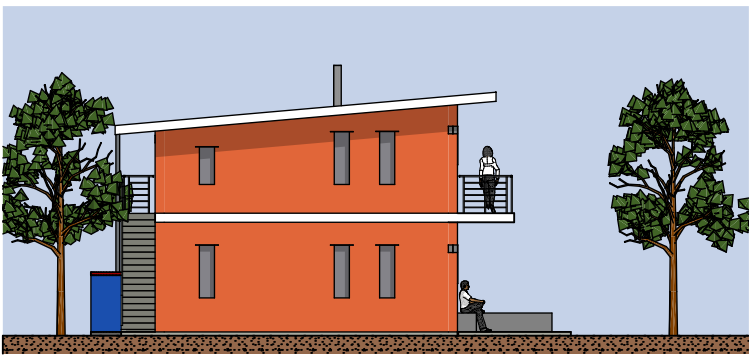
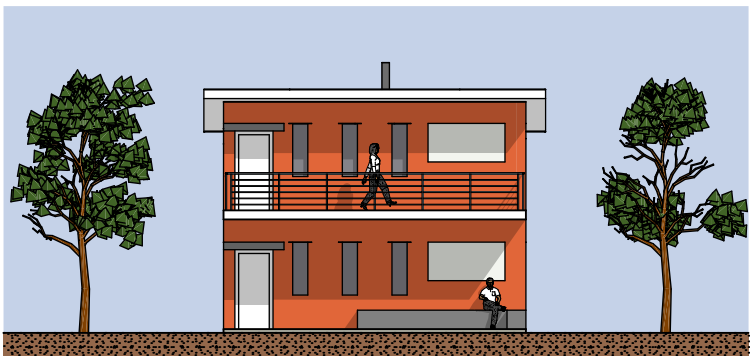
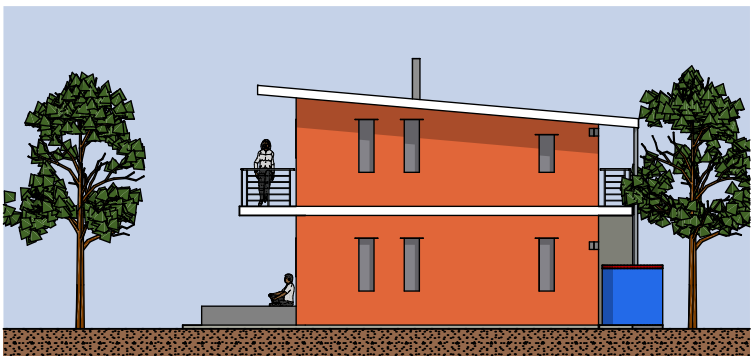
The brick walls from clay stones are so solid, that it is possible to put up a 2nd floor on top and access it by separate stairs (build inside or outside)

The sheet metal oven in the kitchen will improve local health situation very much. No more open fires and fumes. There is a fumes ventilation pipe.

The house contains a bath with a toilet, a shower and a sink for washing hands, face and hair - waste water and fresh water connection from site

This is the best / cheapest Double **Family House** we can offer to the people in Wakiso District - it is the efficiency that counts - not the high roof ...

Best regards from Richard Mugasho, Volker Goebel, Jimmy Kasole, George Botyo - MGKB building company - Civil engineers, architects, builders



Double Urban Wakiso District HOUSE :

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BA.12

Description Family House

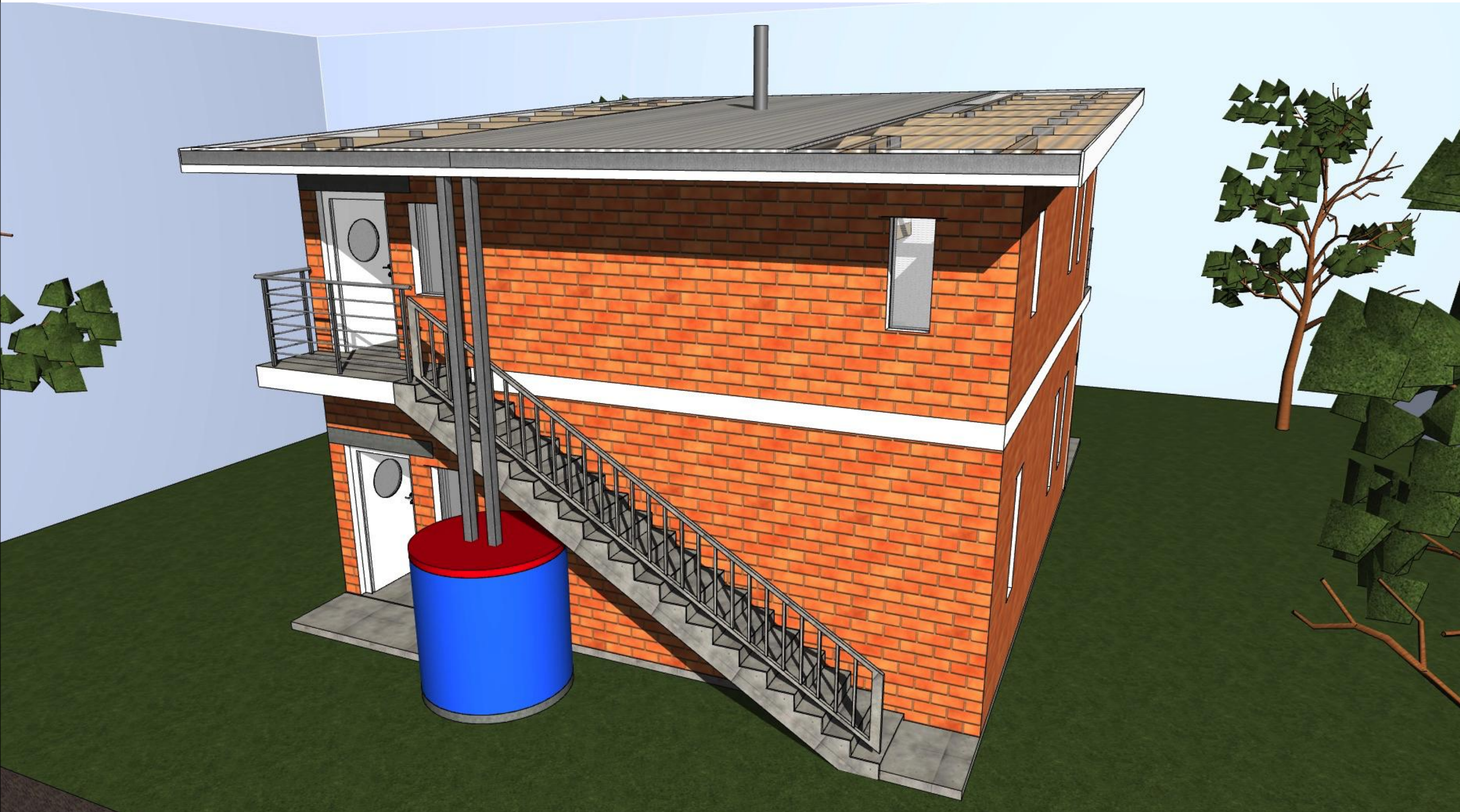
A-02, A-03, A-04 Ansicht Nord

Scale	Sheet	Date	Draftman / Architect
1:200	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel

Dateiname: Double_Wakiso_Family_House_Building_Plans.pln

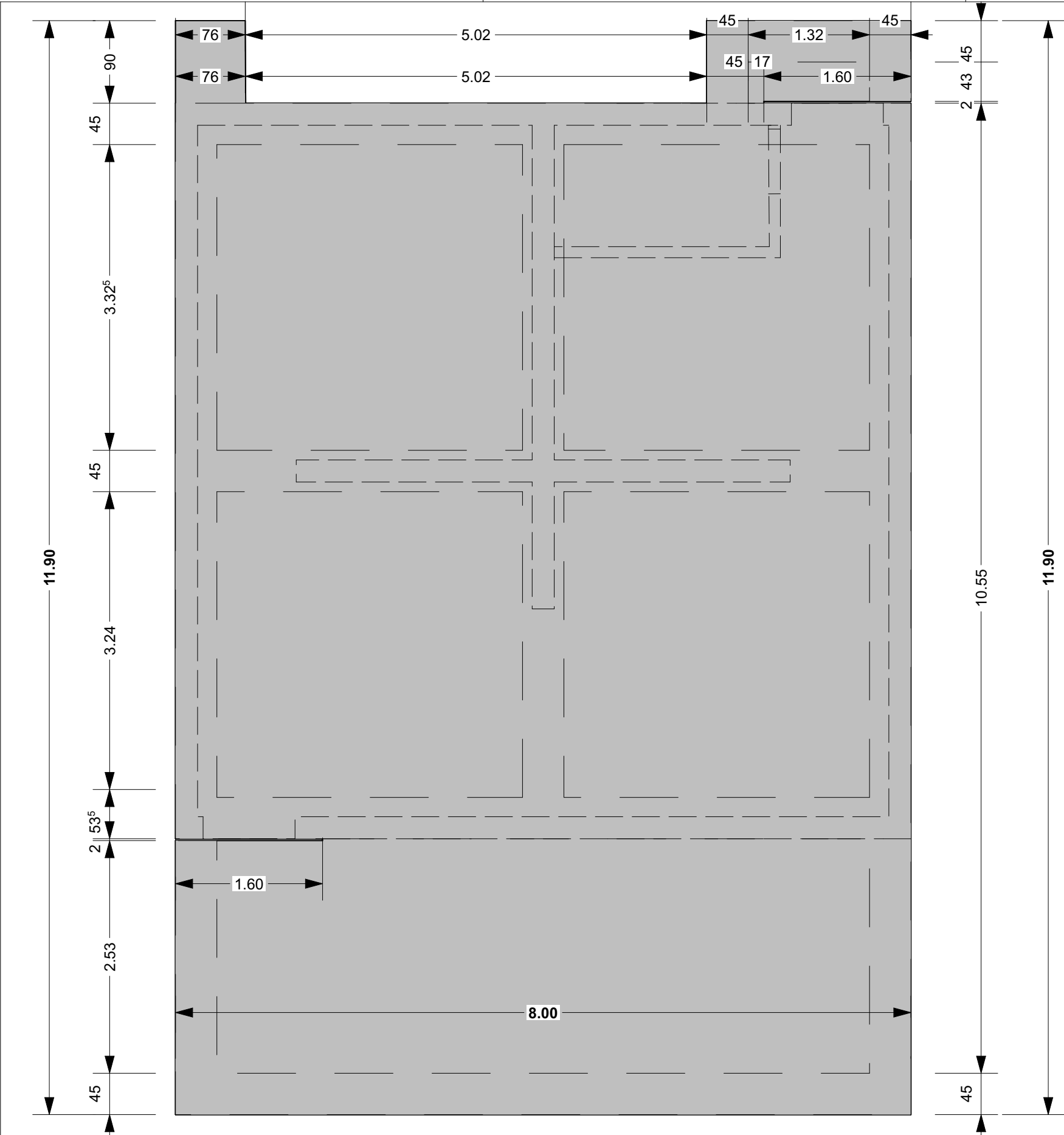
Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln

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"Double-Family-House" land 20 x 20 M. a 16 Person Family House in the suburbs		Richard Mugasho / Civil Engineer / 25 % from Kampala / Tel: +256 7554 906 60		Volker Goebel / Switzerland Architect, Diploma-Engineer		Allgemeine Perspektive (5)			
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						Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			

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91 sqm **concrete foundation plate**
thickness 10-20 cm with steel mats inside

91 m² x 0,1 m = 9,1 m³ concrete needed
28 m² x 0.1 m = 2,8 m³ concrete needed

section casting OR transport concrete Wakiso

the concrete Formula :
1.0 part cement
2.5 parts sand
3.6 parts gravel
plus a lot of water (how to get it there)

for the 11,9 m³ concrete it needs :

3.646 kg cement = 73 sacks (50 kg)
9.100 kg sand = a few lorries
13.104 kg gravel = a few lorries

73 sacks x 30.000 UGX = 2.190.000 UGX
2.190.000 UGX = 585 SFR

plus the sand = 300 SFr (1.500.000 UGX)
plus the gravel = 400 SFr (1.900.000 UGX)
plus the steel = 400 SFr (1.500.000 UGX)

Total = 1.685 SFr for the materials
Total = 2.100 SFr including transports
Total = 2.800 SFr including man work

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ARCHITECT :

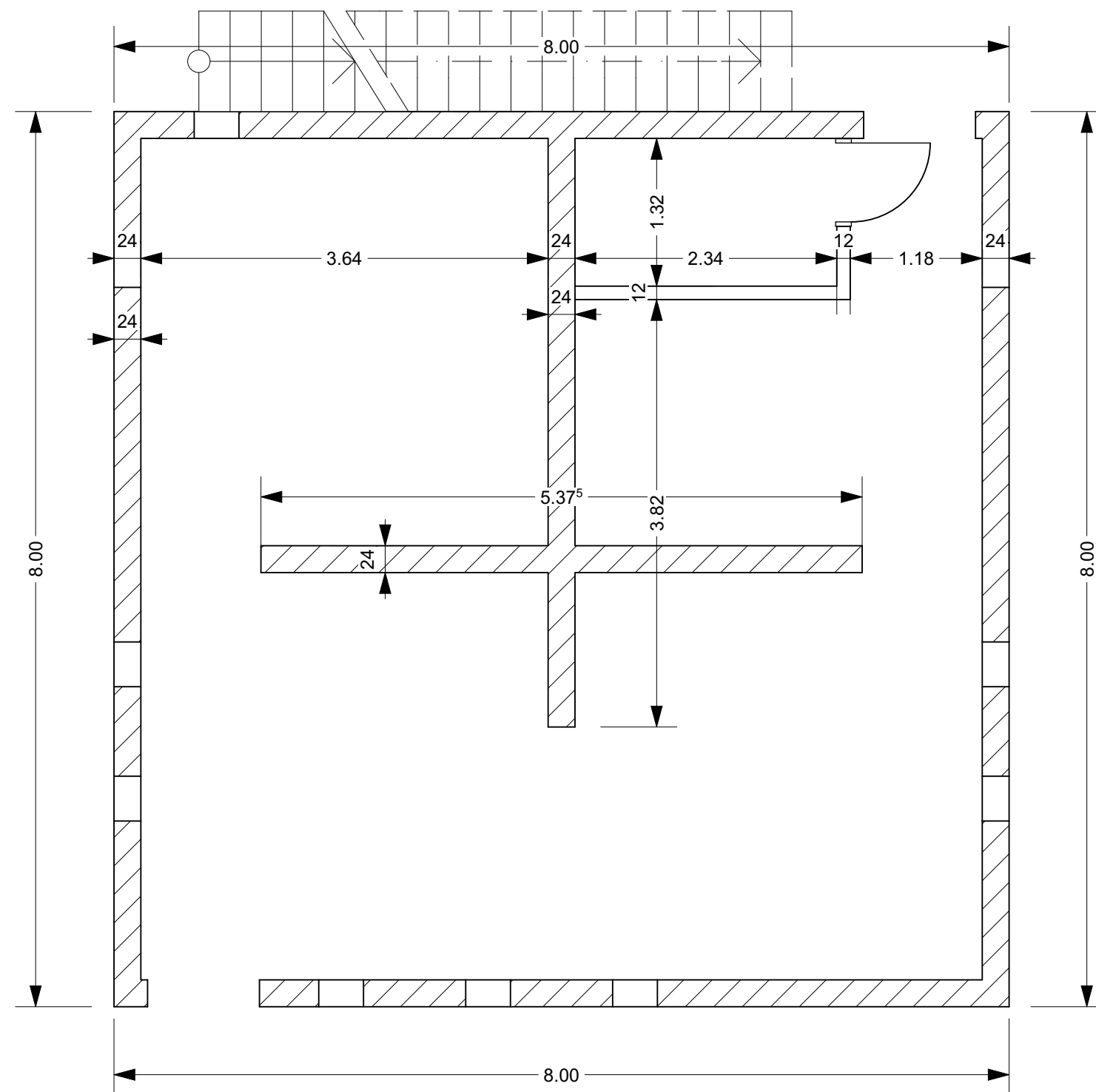
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BA.14		Foundation Plate	
0. EG (1)			
Scale	Sheet	Date	Draftman / Architect
1:50	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel
Dateiname: Double_Wakiso_Family_House_Building_Plans.pln			
Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			



The clay brick walls (t = 24 cm)

$$7.8+7.8+7.8+7.8+5.4+5.3 = 41,9 \text{ m}$$

$$\text{Med. height} = (3,1 + 2,4) : 2 = 2,75 \text{ m}$$

$$41,9 \times 2,75 \times 0.24 = 28,15 \text{ m}^3 \text{ Volume}$$

$$\text{without windows \& doors} = 24.83 \text{ m}^3$$

$$\text{without mortar \& plaster} = 20.36 \text{ m}^3$$

$$\text{without horiz. mortar (:0,9)} = 18.32 \text{ m}^3$$

$$\text{brick is } 0.2 \times 0,1 \times 0,1 = 0.002 \text{ m}^3$$

$$18,32 \text{ m}^3 : 0,002 = 9.163 \text{ bricks} + \text{bath}$$

$$9.300 \times 320 \text{ UGX} = 2.976.000 \text{ UGX}$$

$$2.976.000 \text{ UGX} = 790 \text{ SFr}$$

plus transports, **plus mortar** onto site

$$= 1.200 \text{ SFr for the material only}$$

$$\text{Total} = 2.400 \text{ SFr for the full work}$$

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from Kiboga / Tel: +256 7581 982 00

George Botyo / Experienced Builder / 25 %
from Kampala / Tel: +256 7552 365 28

Volker Goebel / Dipl.-Ing., Architect / 25 %

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ARCHITECT :

Volker Goebel / Switzerland
Architect, Diploma-Engineer

Gersauerstr. 85 / 6440 Brunnen

Tel: +41 41 820 06 58
Mob: +41 79 424 61 48

E-Mail: info@ing-goebel.ch
Web: www.ing-goebel.ch

BA.15

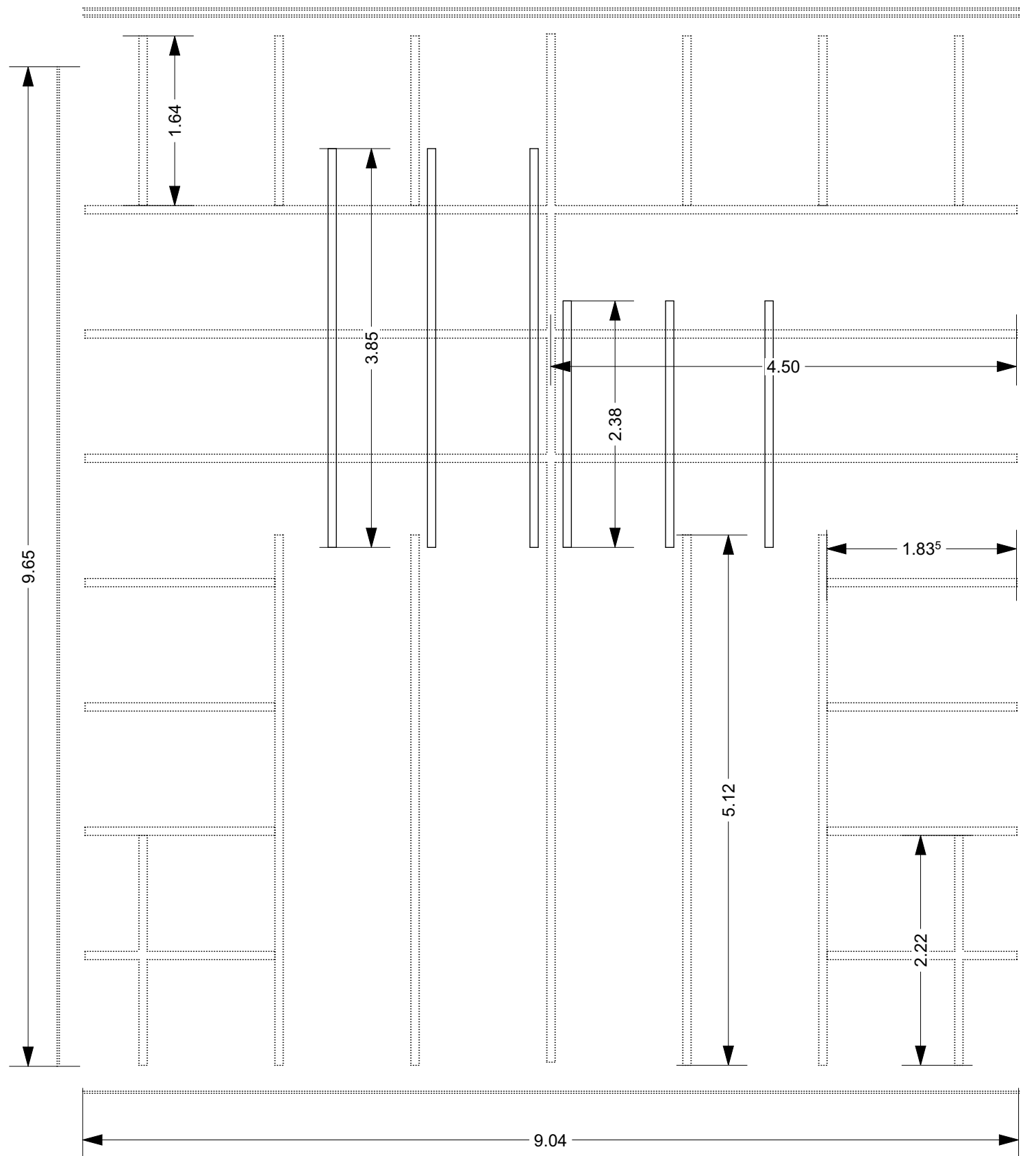
The 5 Brick Walls

0. EG (2)

Scale	Sheet	Date	Draftman / Architect
1:50	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel

Dateiname: Double_Wakiso_Family_House_Building_Plans.pln

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The building wood

general roof wood dimension 8 x 12 cm

and 24 x 2 cm planks for the sides ...

7 x 1,64 meter = 11,5 Meter = 14 m.

3 x 3,85 meter = 11,5 Meter = 14 m.

3 x 2,38 meter = 7,2 Meter = 8 m.

6 x 4,50 meter = 27 Meter = 32 m.

8 x 1,84 meter = 14,7 Meter = 18 m.

2 x 2,22 meter = 4,44 Meter = 6 m.

6 x 5,12 meter = 30,7 Meter = 36 m.

128 Meters in 8 x 12 cm Wood

**120 Meters in 2 x 24 cm Wood
(side planks and rest of box)**

estimated app . 800 SFr.

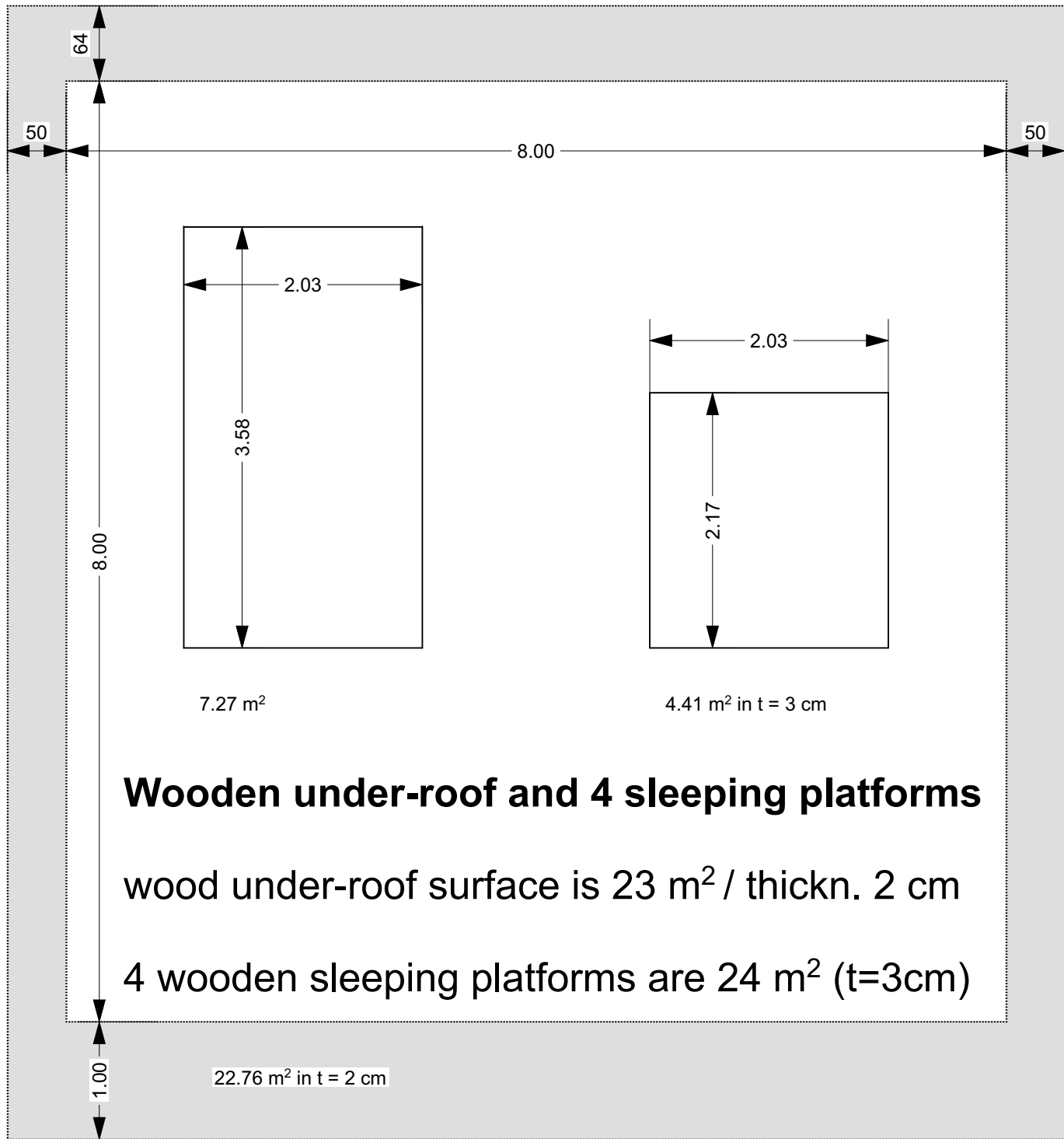
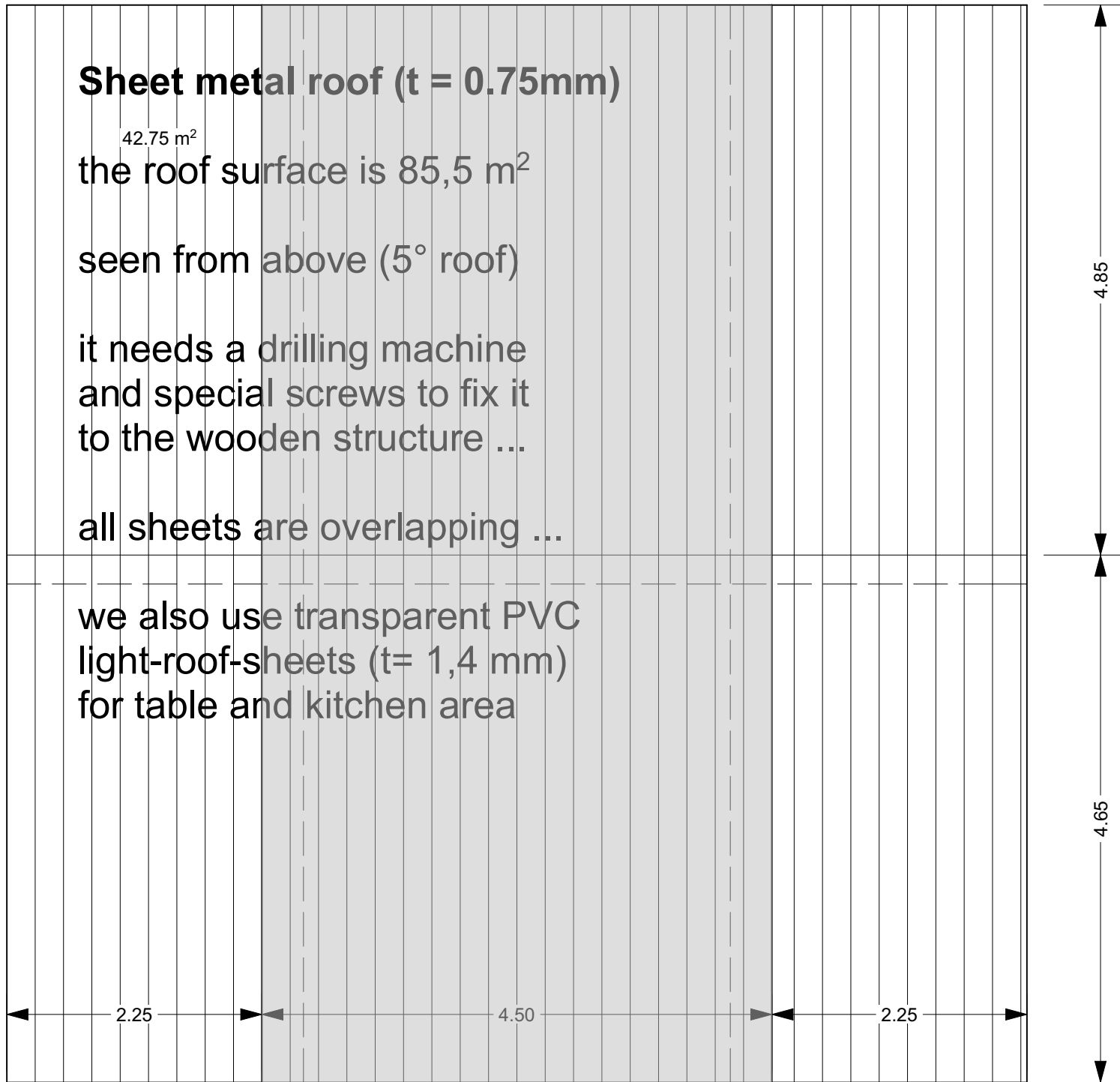
cut to length app 900 SFr.

plus angle brackests (2 types)
metal screws/towels = 1.200 SFr.
(=4.500.000 Uganda Shillings)

plus work labour = 2.000 SFr.

Double Urban Wakiso District HOUSE :		MGKB building contractor COMPANY :		ARCHITECT :		BA.16		Roof building wood	
"Double-Family-House" land 20 x 20 M. a 16 Person Family House in the suburbs		Richard Mugasho / Civil Engineer / 25 % from Kampala / Tel: +256 7554 906 60		Volker Goebel / Switzerland Architect, Diploma-Engineer		0. EG (3)			
please also see " Rent/Buy contract " for 1 Double-House by two names signature		Jimmy Kasole / Urban Planner / 25 % from Kiboga / Tel: +256 7581 982 00		Gersauerstr. 85 / 6440 Brunnen		Scale	Sheet	Date	Draftman / Architect
project funding cooperation by Centenary Rural Development Bank Ltd / Wakiso / U.		George Botyo / Experienced Builder / 25 % from Kampala / Tel: +256 7552 365 28		Tel: +41 41 820 06 58 Mob: +41 79 424 61 48		1:50	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel
		Volker Goebel / Dipl.-Ing., Architect / 25 %		E-Mail: info@ing-goebel.ch Web: www.ing-goebel.ch		Dateiname: Double_Wakiso_Family_House_Building_Plans.pln			
						Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			

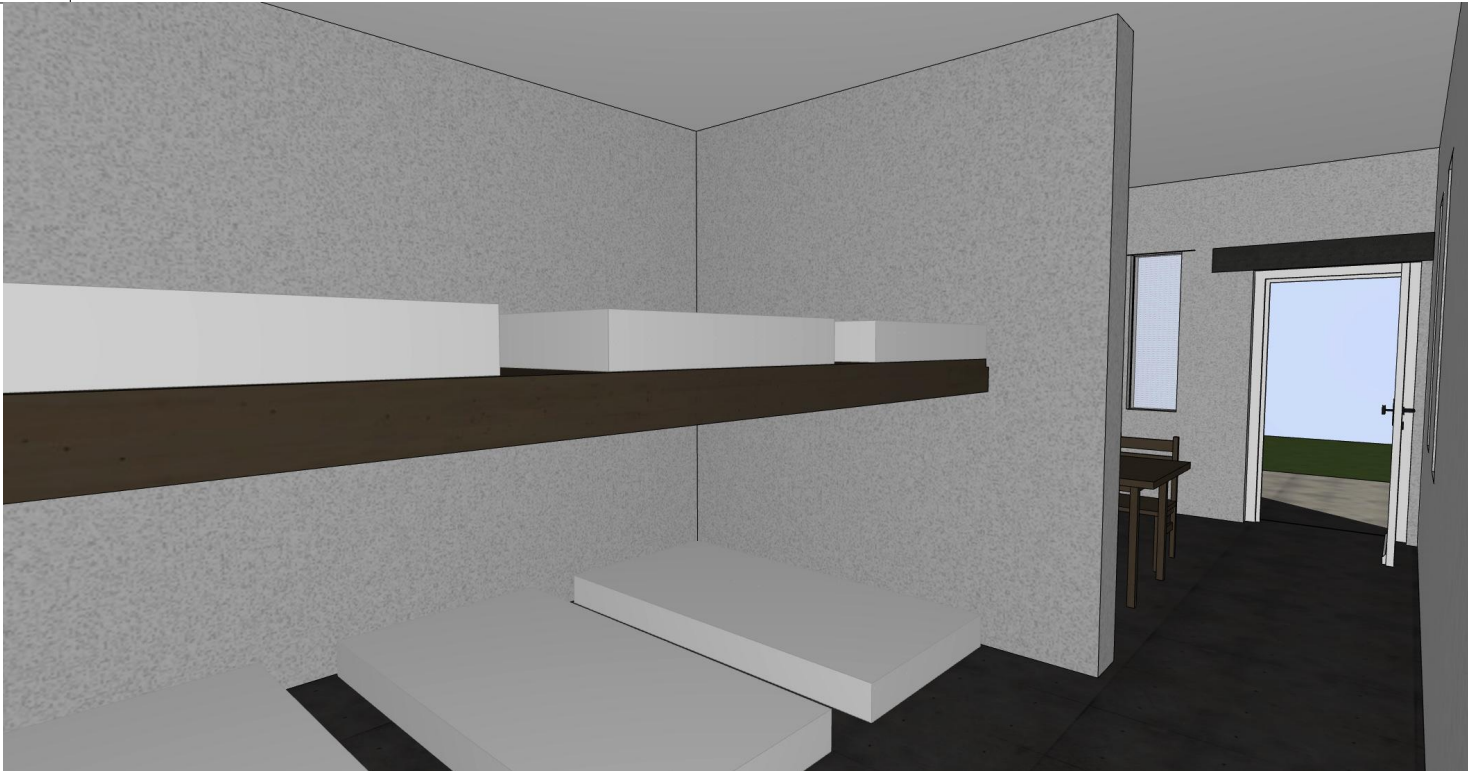
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100 m² = 1.466 SFr = 5.500.000 UGX
including : transport to the remote site
fixing material and the craftsmenswork

47 m² = 557 SFr = 2.100.000 UGX
including : transport to the remote site
fixing material and the craftsmenswork

Double Urban Wakiso District HOUSE :		MGKB building contractor COMPANY :		ARCHITECT :		BA.17		Sheet Roof Material	
"Double-Family-House" land 20 x 20 M. a 16 Person Family House in the suburbs		Richard Mugasho / Civil Engineer / 25 % from Kampala / Tel: +256 7554 906 60		Volker Goebel / Switzerland Architect, Diploma-Engineer		0. EG (4)			
please also see " Rent/Buy contract " for 1 Double-House by two names signature		Jimmy Kasole / Urban Planner / 25 % from Kiboga / Tel: +256 7581 982 00		Gersauerstr. 85 / 6440 Brunnen		Scale	Sheet	Date	Draftman / Architect
project funding cooperation by Centenary Rural Development Bank Ltd / Wakiso / U.		George Botyo / Experienced Builder / 25 % from Kampala / Tel: +256 7552 365 28		Tel: +41 41 820 06 58 Mob: +41 79 424 61 48		1:50	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel
Volker Goebel / Dipl.-Ing., Architect / 25 %				E-Mail: info@ing-goebel.ch Web: www.ing-goebel.ch		Dateiname: Double_Wakiso_Family_House_Building_Plans.pln			
						Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			

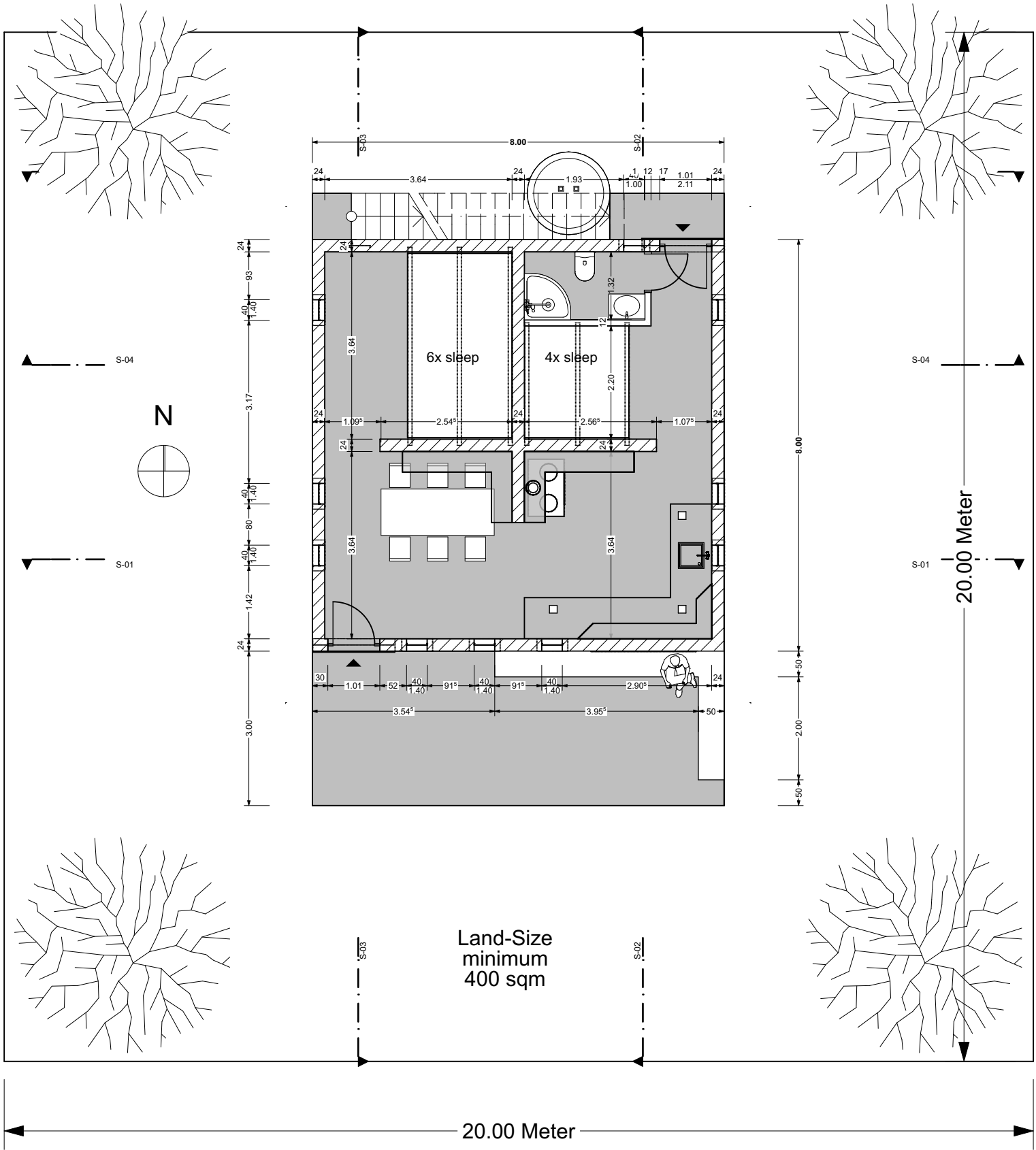


first building land for Family House is found in "Namusela" that is only 5 km to Wakiso town centre - sales start



Double Urban Wakiso District HOUSE :		MGKB building contractor COMPANY :		ARCHITECT :		BA.18		Eating and Kitchen	
"Double-Family-House" land 20 x 20 M. a 16 Person Family House in the suburbs		Richard Mugasho / Civil Engineer / 25 % from Kampala / Tel: +256 7554 906 60		Volker Goebel / Switzerland Architect, Diploma-Engineer		5, 6, 7, 8 Kamera			
please also see " Rent/Buy contract " for 1 Double-House by two names signature		Jimmy Kasole / Urban Planner / 25 % from Kiboga / Tel: +256 7581 982 00		Gersauerstr. 85 / 6440 Brunnen		Scale	Sheet	Date	Draftman / Architect
project funding cooperation by Centenary Rural Development Bank Ltd / Wakiso / U.		George Botyo / Experienced Builder / 25 % from Kampala / Tel: +256 7552 365 28		Tel: +41 41 820 06 58 Mob: +41 79 424 61 48		1:3.85	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel
		Volker Goebel / Dipl.-Ing., Architect / 25 %		E-Mail: info@ing-goebel.ch Web: www.ing-goebel.ch		Dateiname: Double_Wakiso_Family_House_Building_Plans.pln			
						Pfad: /Users/goebelvolker/Desktop/Double_Wakiso_Family_House_Building_Plans.pln			

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Double Urban Wakiso District HOUSE :		MGKB building contractor COMPANY :		ARCHITECT :		BA.19		Bath and Land-Size	
"Double-Family-House" land 20 x 20 M. a 16 Person Family House in the suburbs		Richard Mugasho / Civil Engineer / 25 % from Kampala / Tel: +256 7554 906 60		Volker Goebel / Switzerland Architect, Diploma-Engineer		11, 12, 0. Kamera, EG (6)			
please also see " Rent/Buy contract " for 1 Double-House by two names signature		Jimmy Kasole / Urban Planner / 25 % from Kiboga / Tel: +256 7581 982 00		Gersauerstr. 85 / 6440 Brunnen		Scale	Sheet	Date	Draftman / Architect
project funding cooperation by Centenary Rural Development Bank Ltd / Wakiso / U.		George Botyo / Experienced Builder / 25 % from Kampala / Tel: +256 7552 365 28		Tel: +41 41 820 06 58 Mob: +41 79 424 61 48		1:3.85, 1:100	420*297 A3	26. August 2017	Dipl.-Ing. Volker Goebel
		Volker Goebel / Dipl.-Ing., Architect / 25 %		E-Mail: info@ing-goebel.ch Web: www.ing-goebel.ch		Dateiname: Double_Wakiso_Family_House_Building_Plans.pln			
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