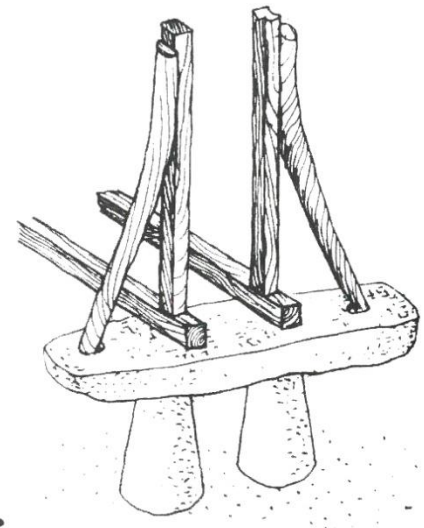
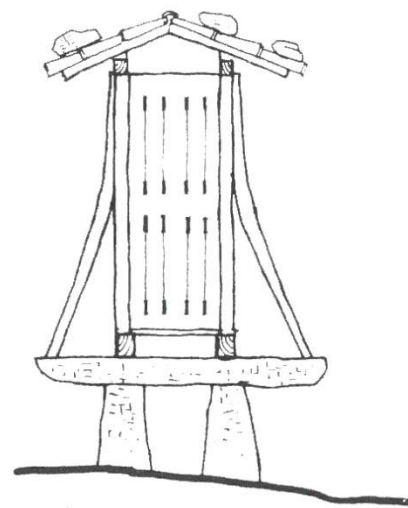
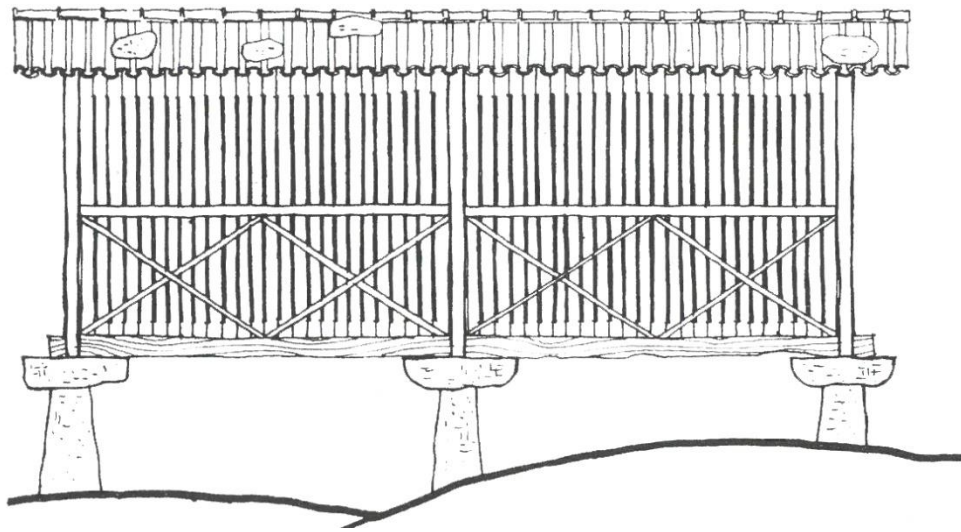
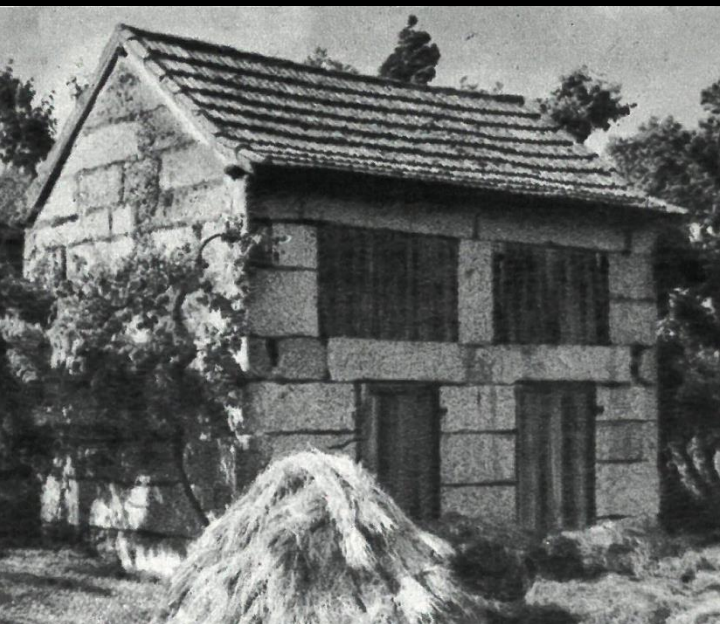




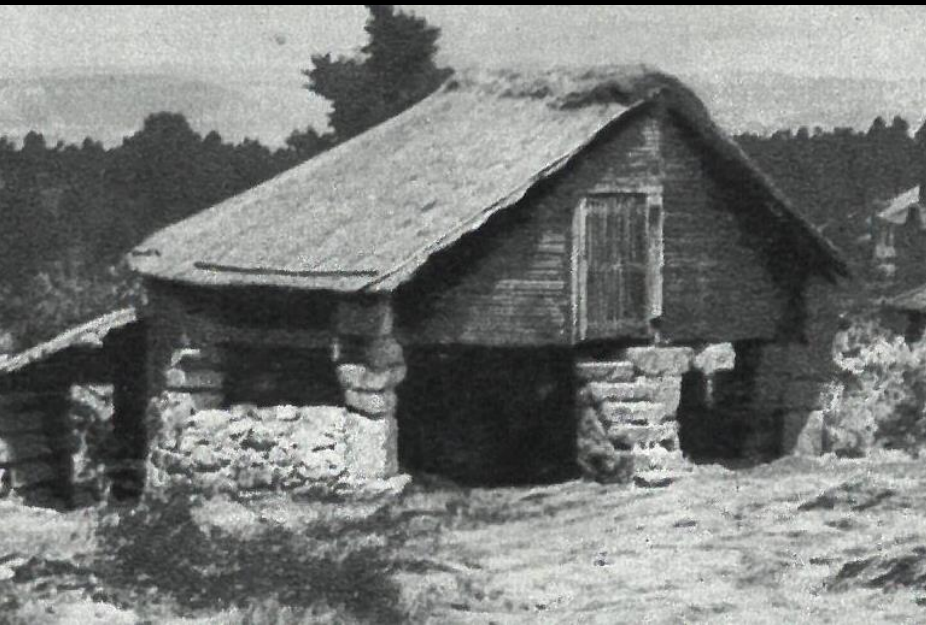
T O C T O C
TIMBER ARCHITECTURE IN FOCUS

Carlos Castanheira | CC&CB – Architects
UL FA, Ljubljana | 19 April 2023

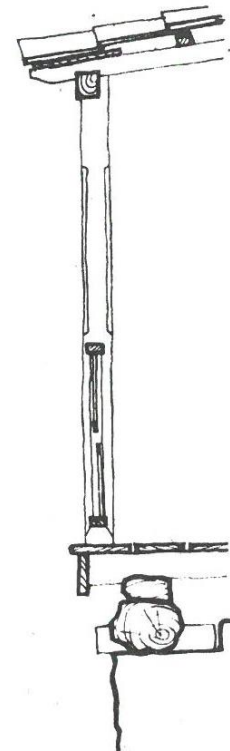
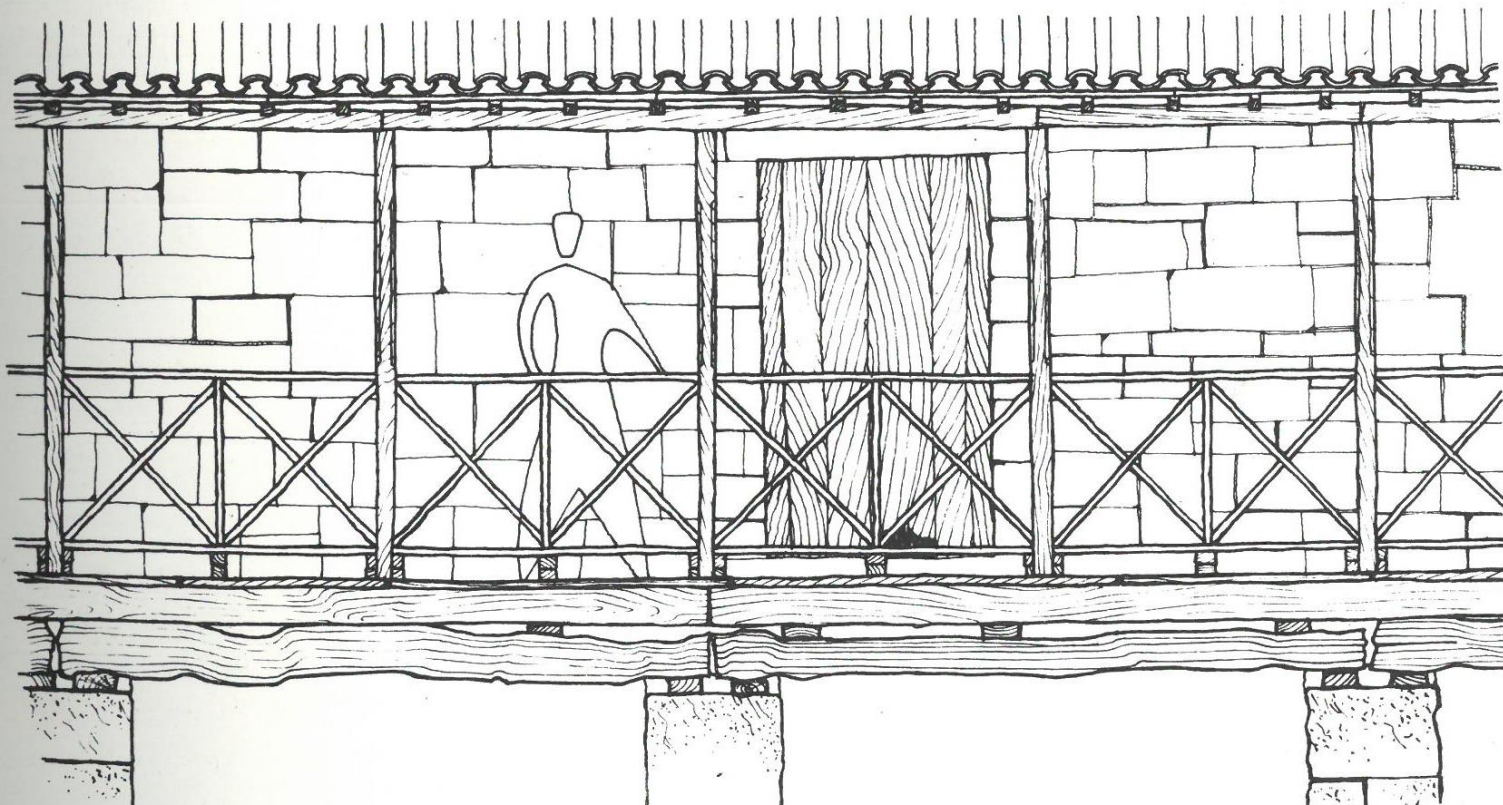




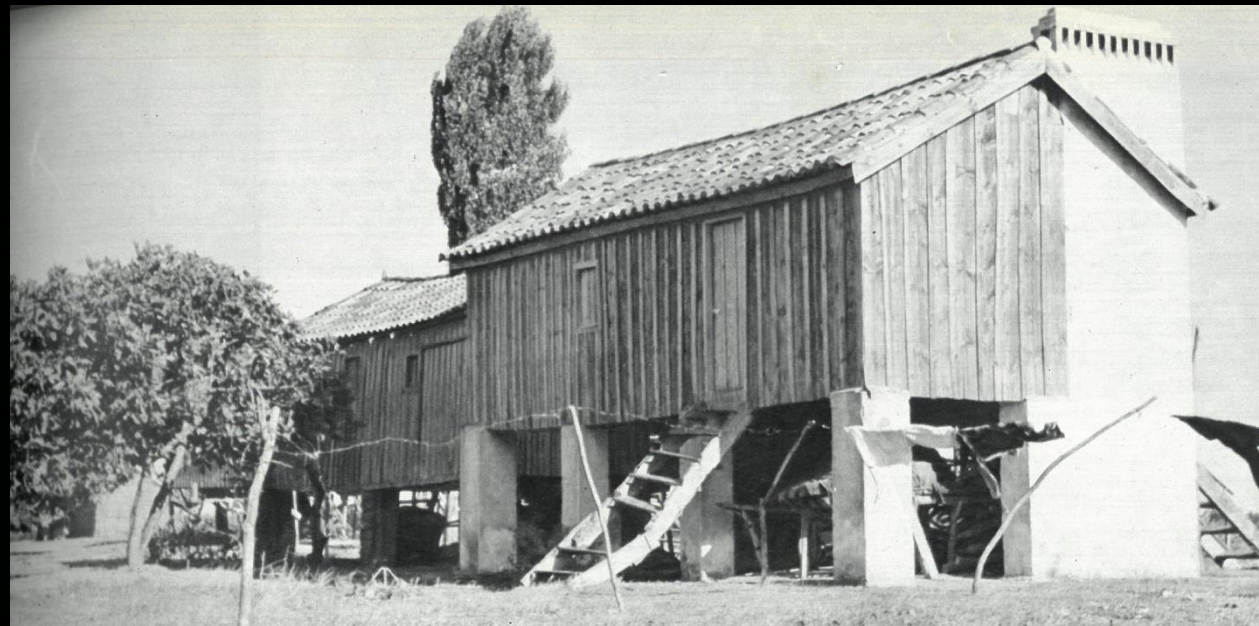
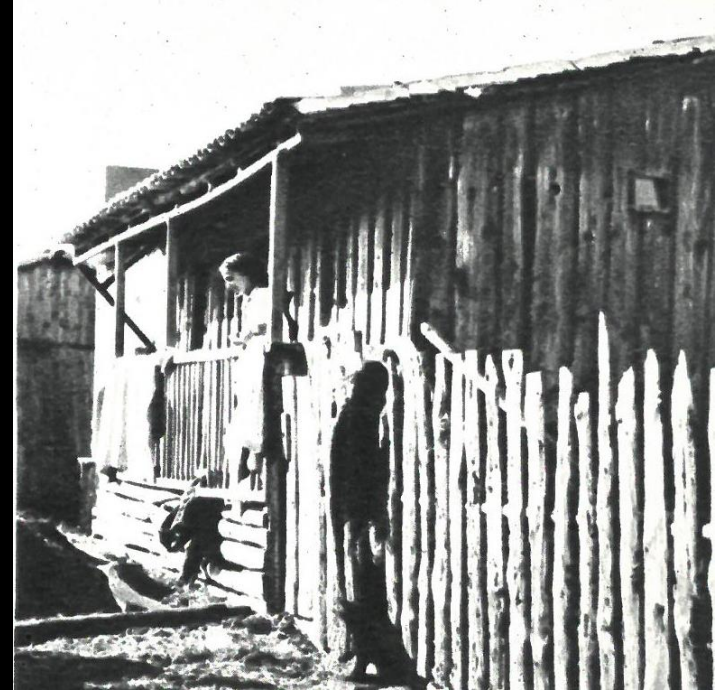
PORTUGUESE VERNACULAR ARCHITECTURE – GRANARY (SEQUEIRO)



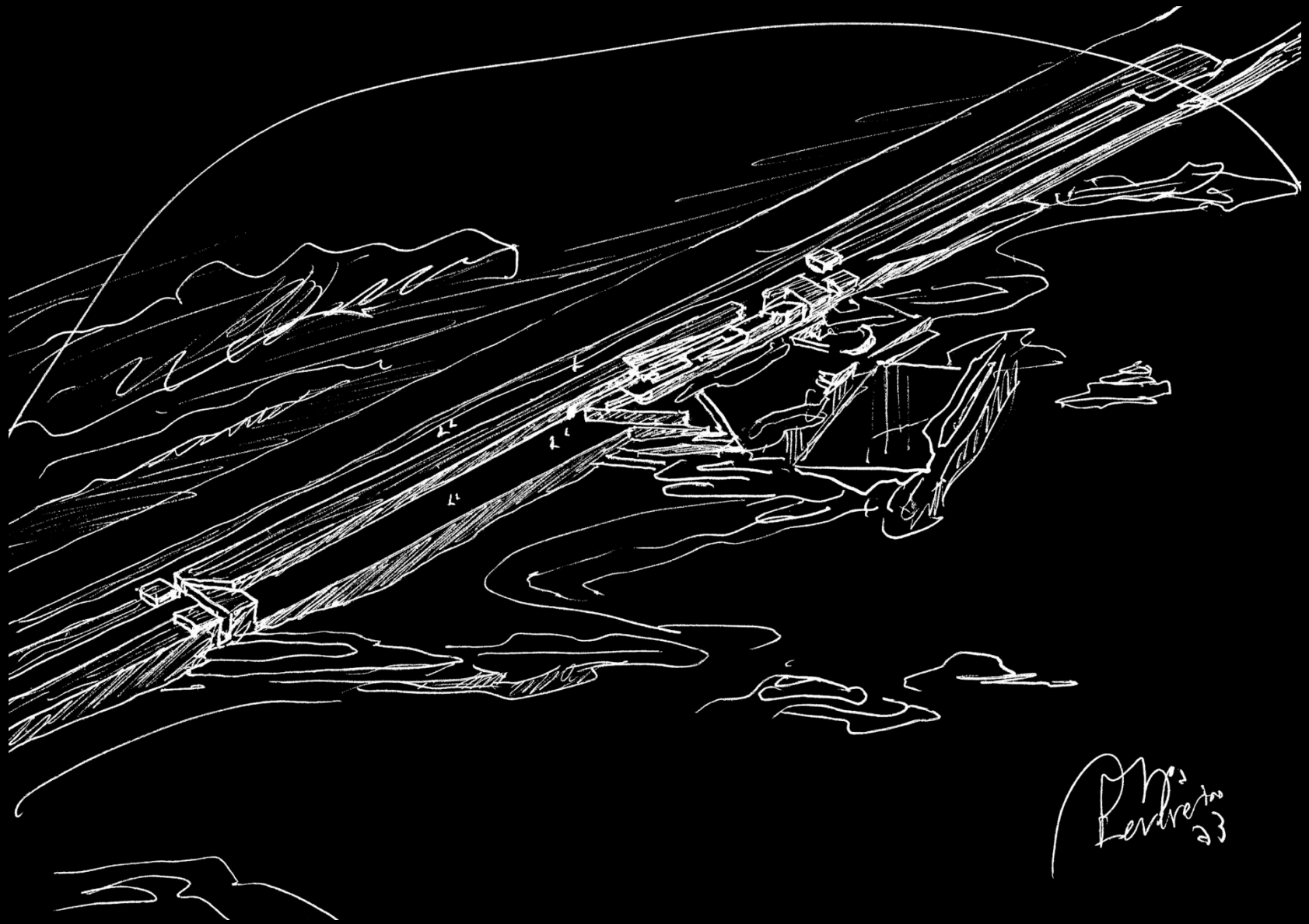
PORTUGUESE VERNACULAR ARCHITECTURE – LINEN MILL



PORTUGUESE VERNACULAR ARCHITECTURE – WOOD BALCONIES



PORTUGUESE VERNACULAR ARCHITECTURE – GRANARY (PALHEIROS)



Álvaro Siza – Leça swimming pool | 1961 – 1966 | Leça da Palmeira, Matosinhos, Portugal



Álvaro Siza – Leça swimming pool | 1961 – 1966 | Leça da Palmeira, Matosinhos, Portugal



Álvaro Siza – Leça swimming pool | 1961 – 1966 | Leça da Palmeira, Matosinhos, Portugal



Álvaro Siza – Leça swimming pool | 1961 – 1966 | Leça da Palmeira, Matosinhos, Portugal



Álvaro Siza – Leça swimming pool | 1961 – 1966 | Leça da Palmeira, Matosinhos, Portugal

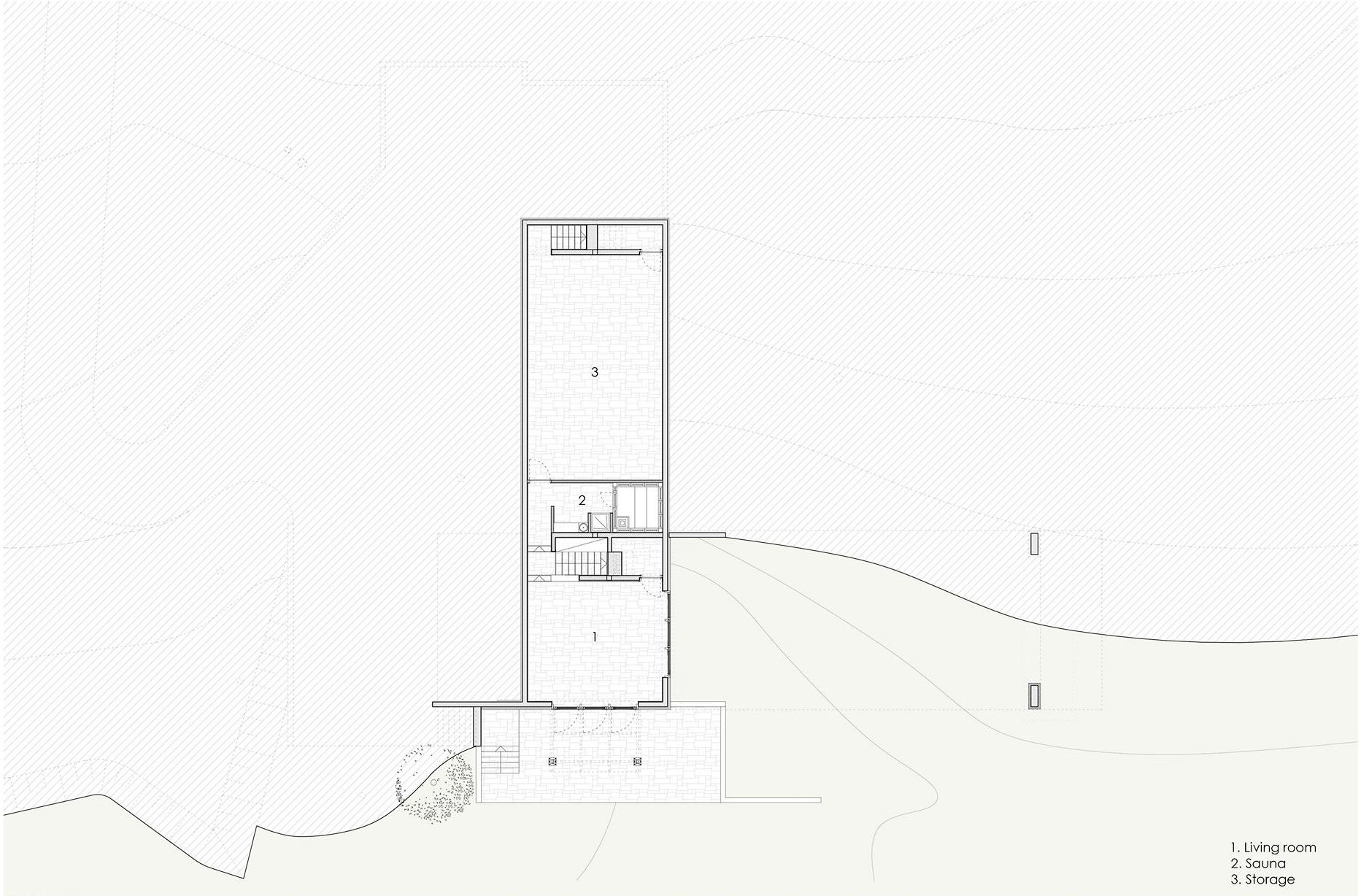


QUINTA DO BURACO - HOUSE III
1999 – 2001 | Oliveira de Azeméis, Portugal



SITE PLAN

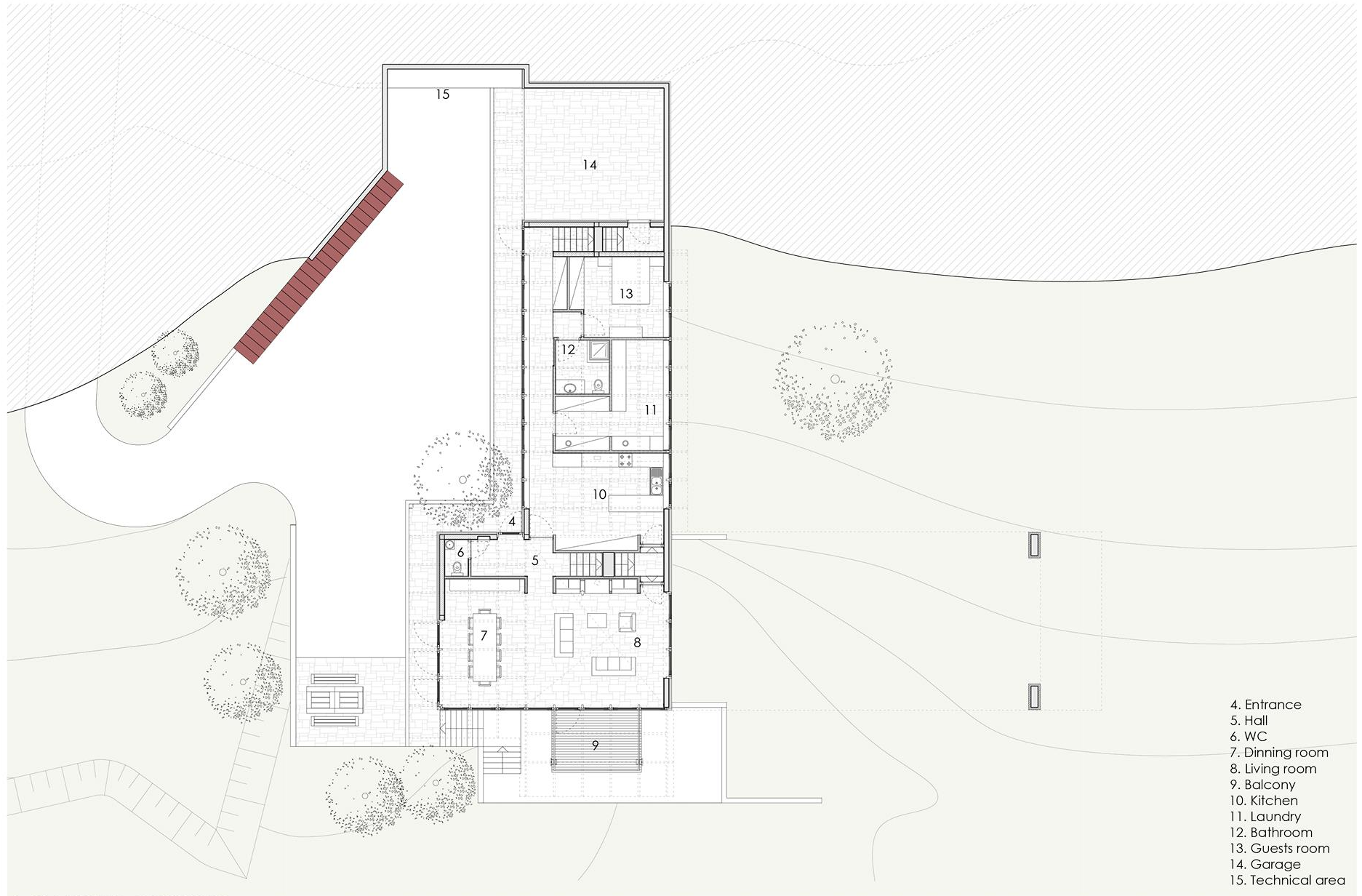




1st FLOOR PLAN



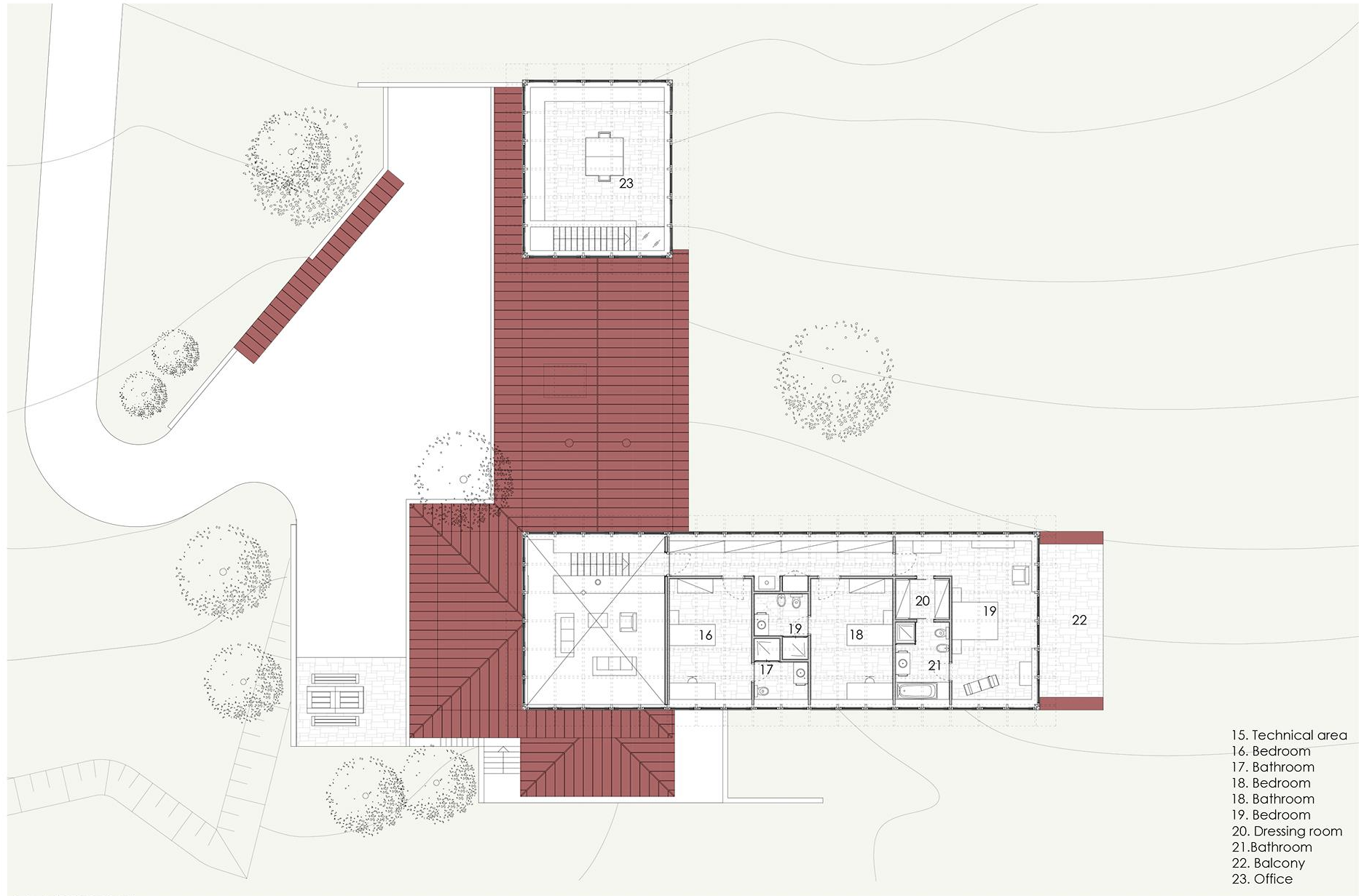
- 1. Living room
- 2. Sauna
- 3. Storage



2nd FLOOR PLAN - ACCESS FLOOR



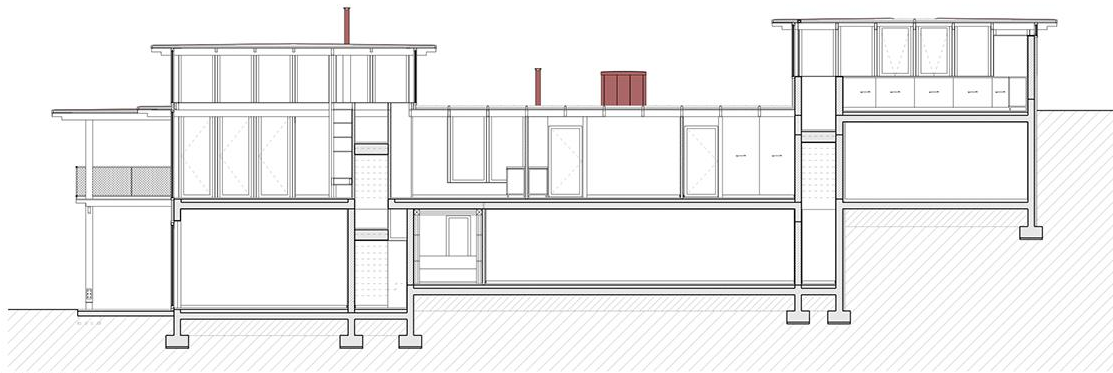
- 4. Entrance
- 5. Hall
- 6. WC
- 7. Dining room
- 9. Balcony
- 8. Living room
- 10. Kitchen
- 11. Laundry
- 12. Bathroom
- 13. Guests room
- 14. Garage
- 15. Technical area



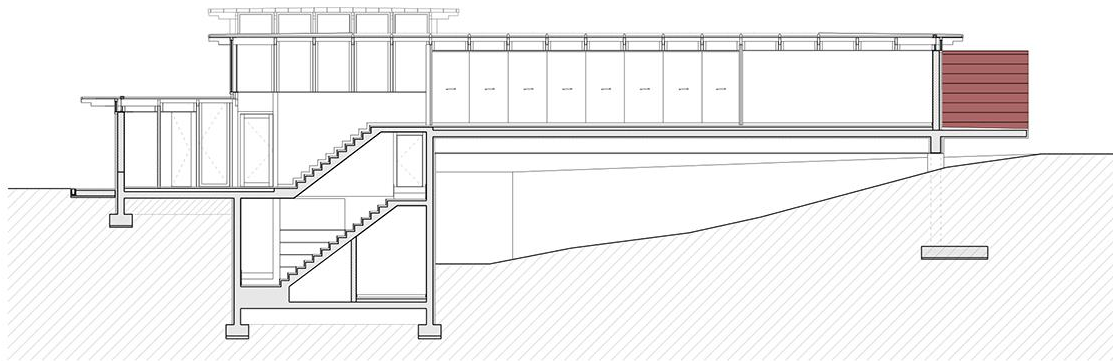
- 15. Technical area
- 16. Bedroom
- 17. Bathroom
- 18. Bedroom
- 18. Bathroom
- 19. Bedroom
- 20. Dressing room
- 21. Bathroom
- 22. Balcony
- 23. Office

3rdnd FLOOR PLAN

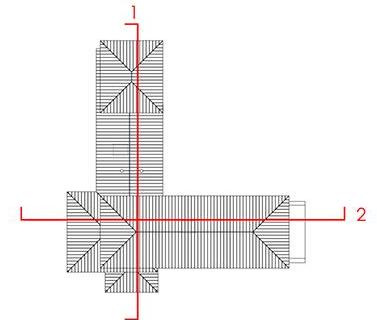




SECTION 1



SECTION 2



0 2m





TOC TOC - TIMBER ARCHITECTURE IN FOCUS

Quinta do Buraco – House III | 1999 – 2001 | Oliveira de Azeméis, Portugal



TOC TOC - TIMBER ARCHITECTURE IN FOCUS

Quinta do Buraco – House III | 1999 – 2001 | Oliveira de Azeméis, Portugal











TOC TOC | TIMBER ARCHITECTURE IN FOCUS

Quinta do Buraco – House III | 1999 – 2001 | Oliveira de Azeméis, Portugal

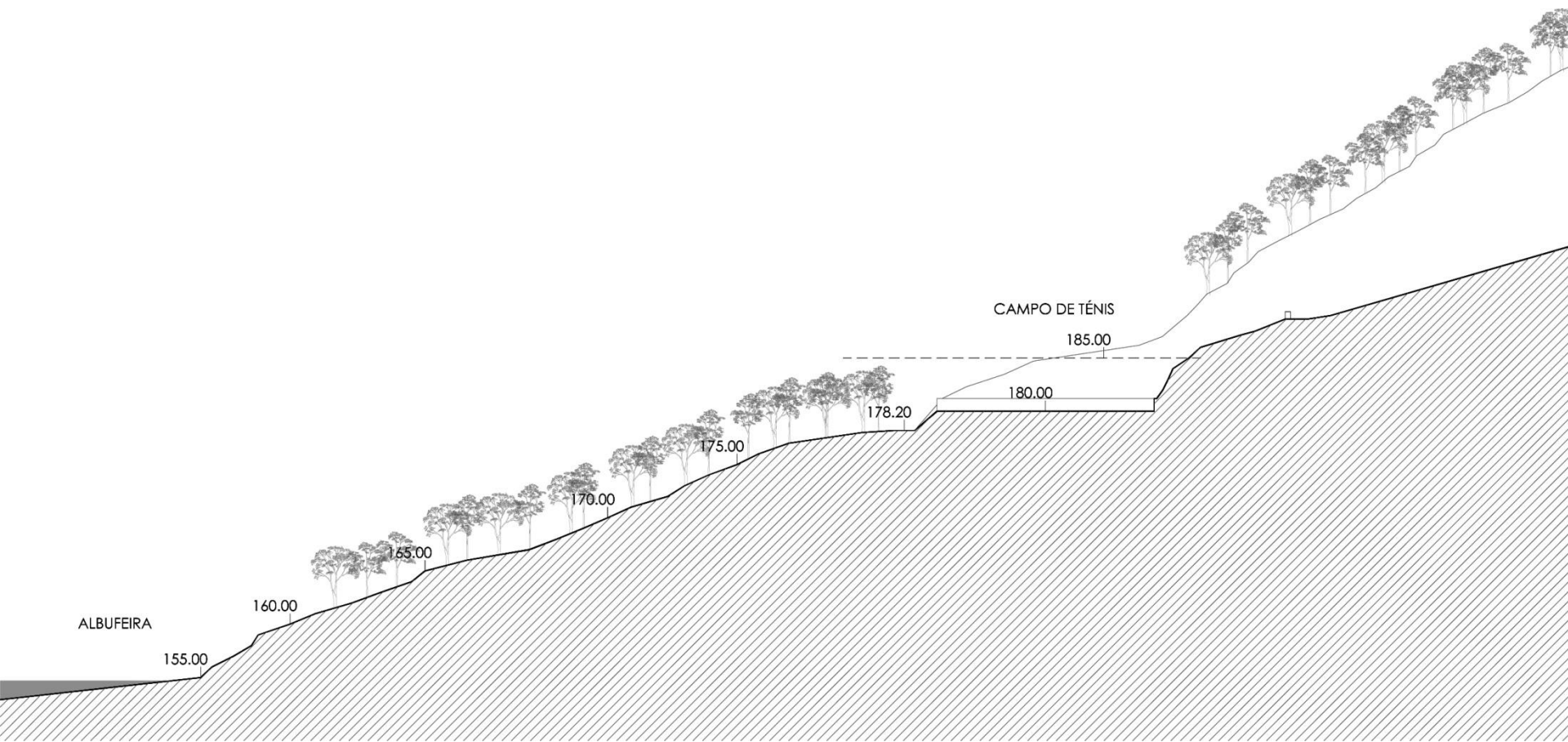




ADROPEIXE HOUSE
2005 – 2008 | Gerês, Portugal



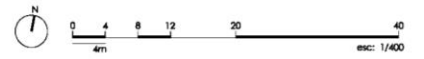


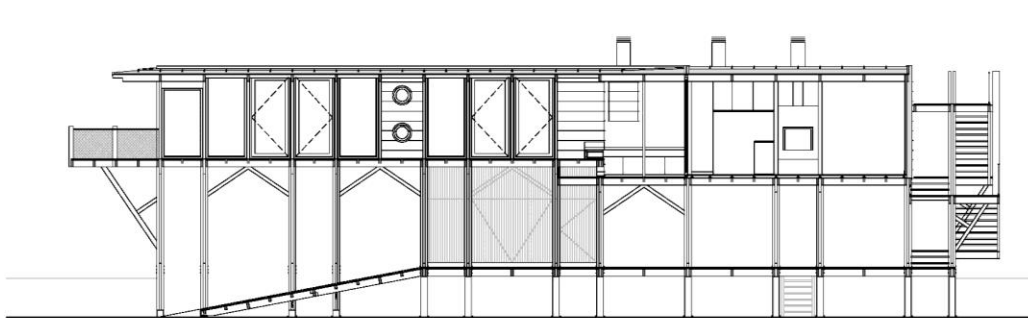




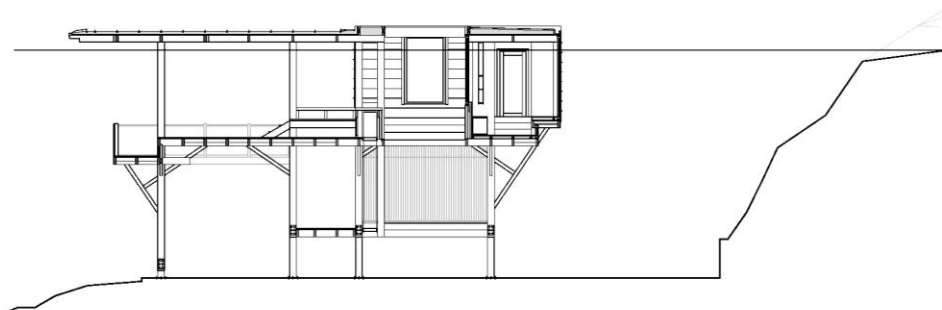


- PLATEAU
- ENTRADA PEDONAL
- PONTE
- COURT-TENNIS
- ESCADA
- ENTRADA AUTOMÓVEL
- CAMINHO
- VEGETAÇÃO
- ROCHA
- CAMINHO DE SERVIÇÃO EXISTENTE
- ALBUFERA

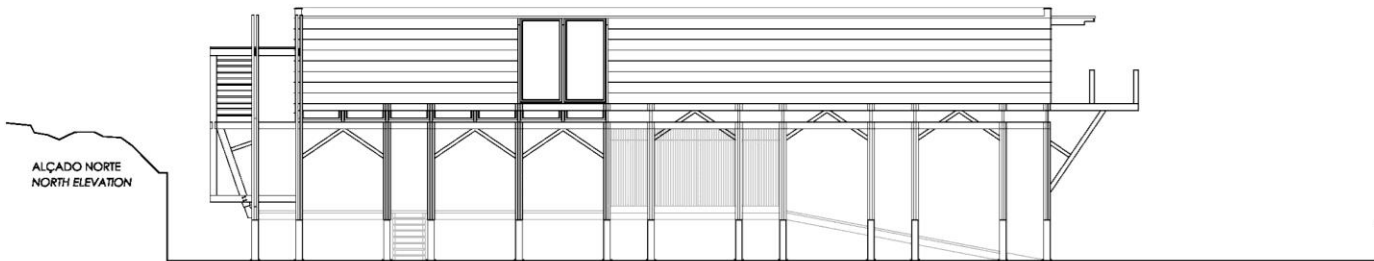




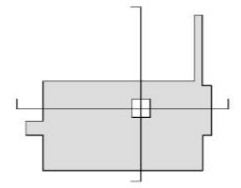
CORTE LONGITUDINAL
LONGITUDINAL SECTION



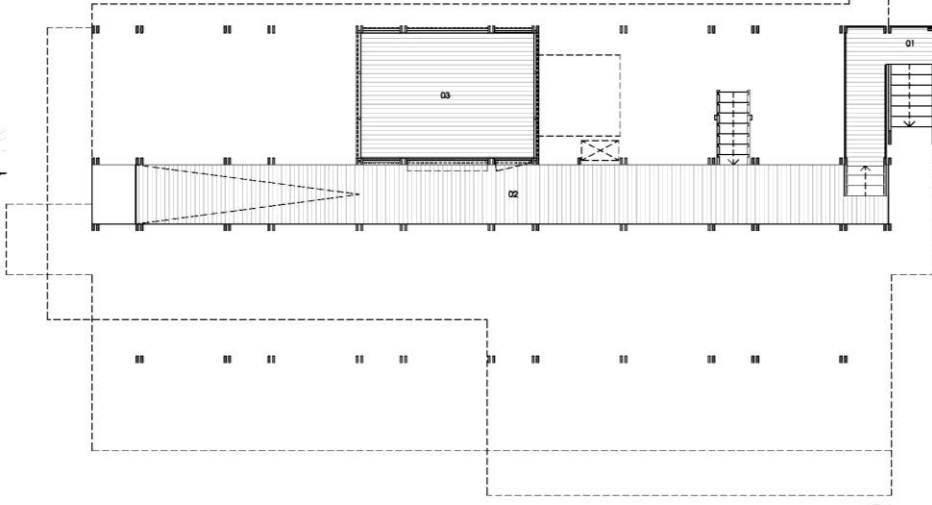
CORTE TRANSVERSAL
TRANSVERSAL SECTION



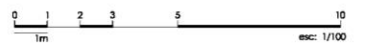
ALÇADO NORTE
NORTH ELEVATION

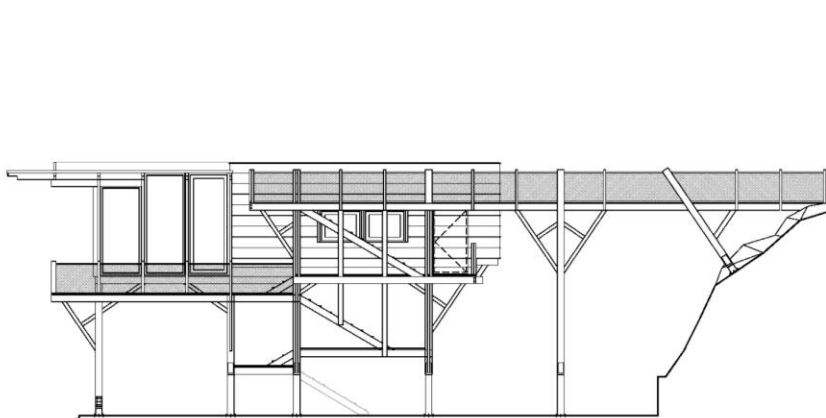


- 01 - ESCADAS 01 - STAIRS
- 02 - CIRCULAÇÃO 02 - CIRCULATION
- 03 - ARRUMO TÉCNICO 03 - TECHNICAL STORAGE

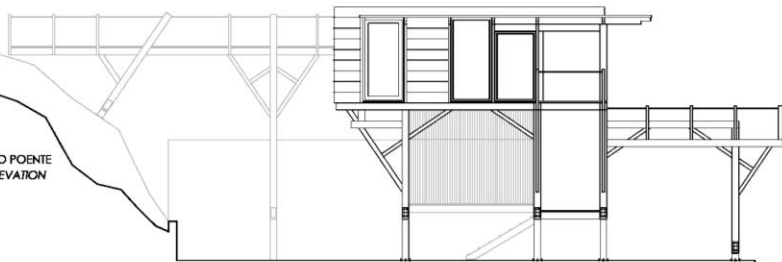


PLANTA DO PISO TÉCNICO
TECHNICAL FLOOR PLAN

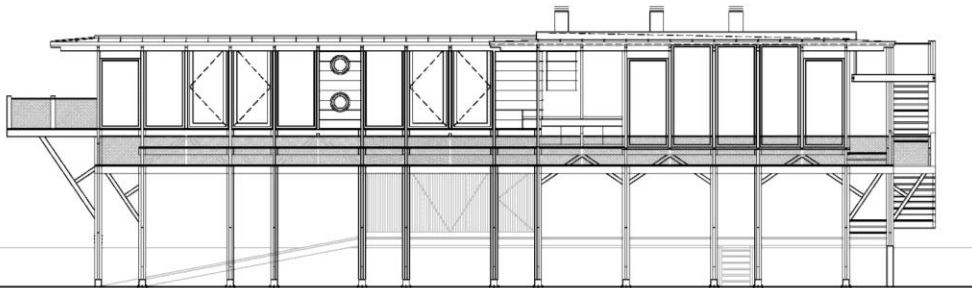




ALÇADO NASCENTE
EAST ELEVATION



ALÇADO POENTE
WEST ELEVATION

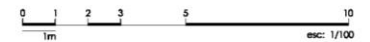


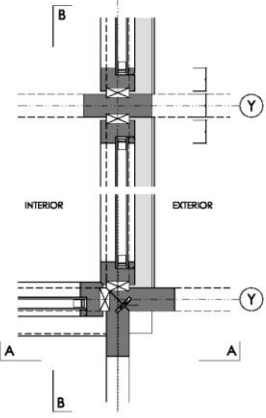
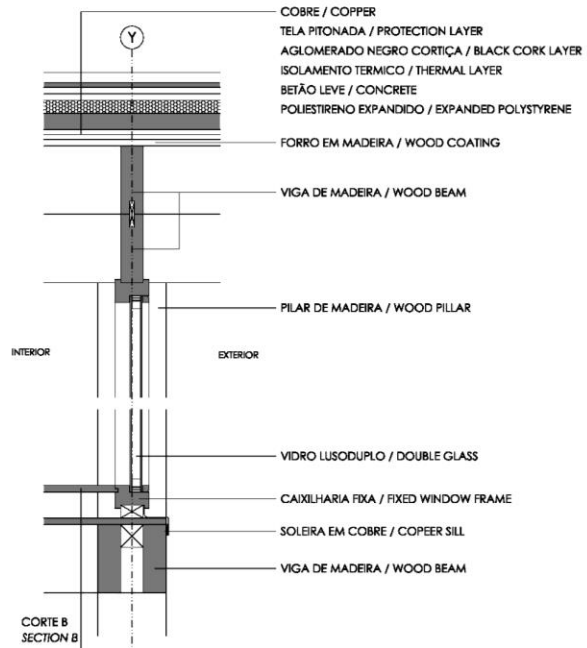
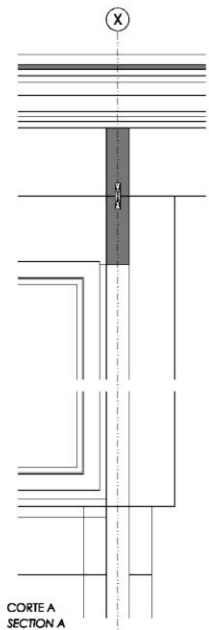
ALÇADO SUL
SOUTH ELEVATION

- | | | | | | | | | | | | | | |
|-------------|--------------|---------------|------------------|------------------|--------------|------------|------------|--------------------|-----------|-----------------------|-----------------------|--------------|--------------------|
| 01 - PONTE | 02 - ESCADAS | 03 - ENTRADA | 04 - SALA JANTAR | 05 - SALA ESTAR | 06 - COZINHA | 07 - PATIO | 08 - BANHO | 09 - DECK QUARTOS | 10 - DECK | 11 - DECK CIRCULAÇÃO | 12 - QUARTO CRIANÇAS | 13 - QUARTO | 14 - BANHO PRIVADO |
| 01 - BRIDGE | 02 - STAIRS | 03 - ENTRANCE | 04 - DINING ROOM | 05 - LIVING ROOM | 06 - KITCHEN | 07 - YARD | 08 - WC | 09 - BEDROOMS DECK | 10 - DECK | 11 - CIRCULATION DECK | 12 - CHILDREN BEDROOM | 13 - BEDROOM | 14 - PRIVATE WC |



PLANTA DO PISO PRINCIPAL
MAIN FLOOR PLAN





PLANTA PLAN
0 1 2 5
10cm esc: 1/10

- COBRE / COPPER
- TELA PITONADA / PROTECTION LAYER
- AGLOMERADO NEGRO CORTIÇA / BLACK CORK LAYER
- ISOLAMENTO TÉRMICO / THERMAL LAYER
- BETÃO LEVE / CONCRETE
- POLIESTIRENO EXPANDIDO / EXPANDED POLYSTYRENE

FORRO EM MADEIRA / WOOD COATING

VIGA DE MADEIRA / WOOD BEAM

PILAR DE MADEIRA / WOOD PILLAR

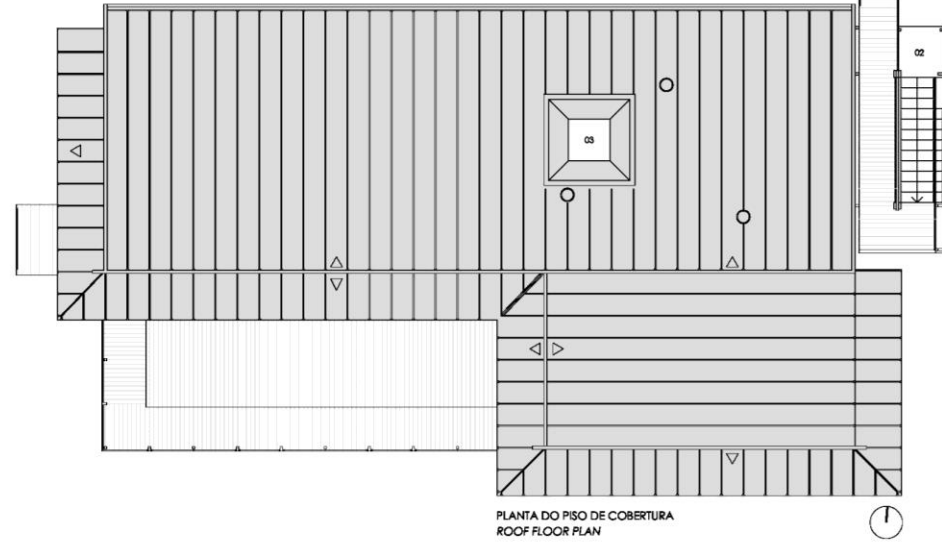
CAIXILHARIA FIXA / FIXED WINDOW FRAME

SOLEIRA EM COBRE / COPEER SILL

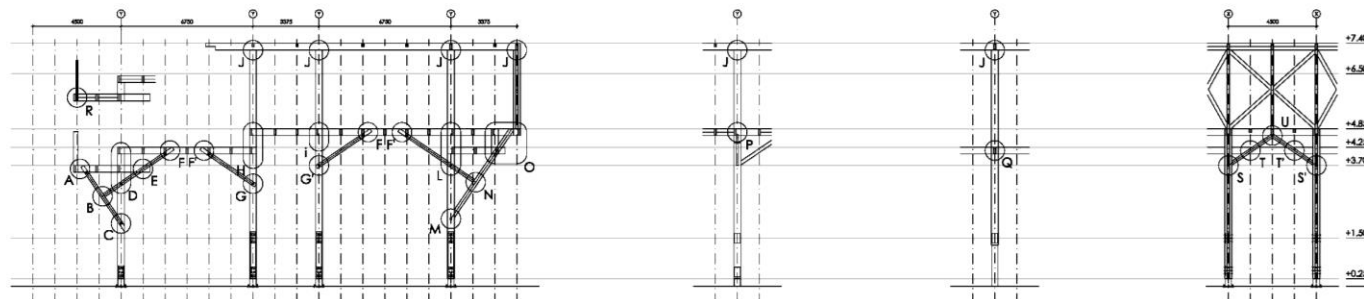
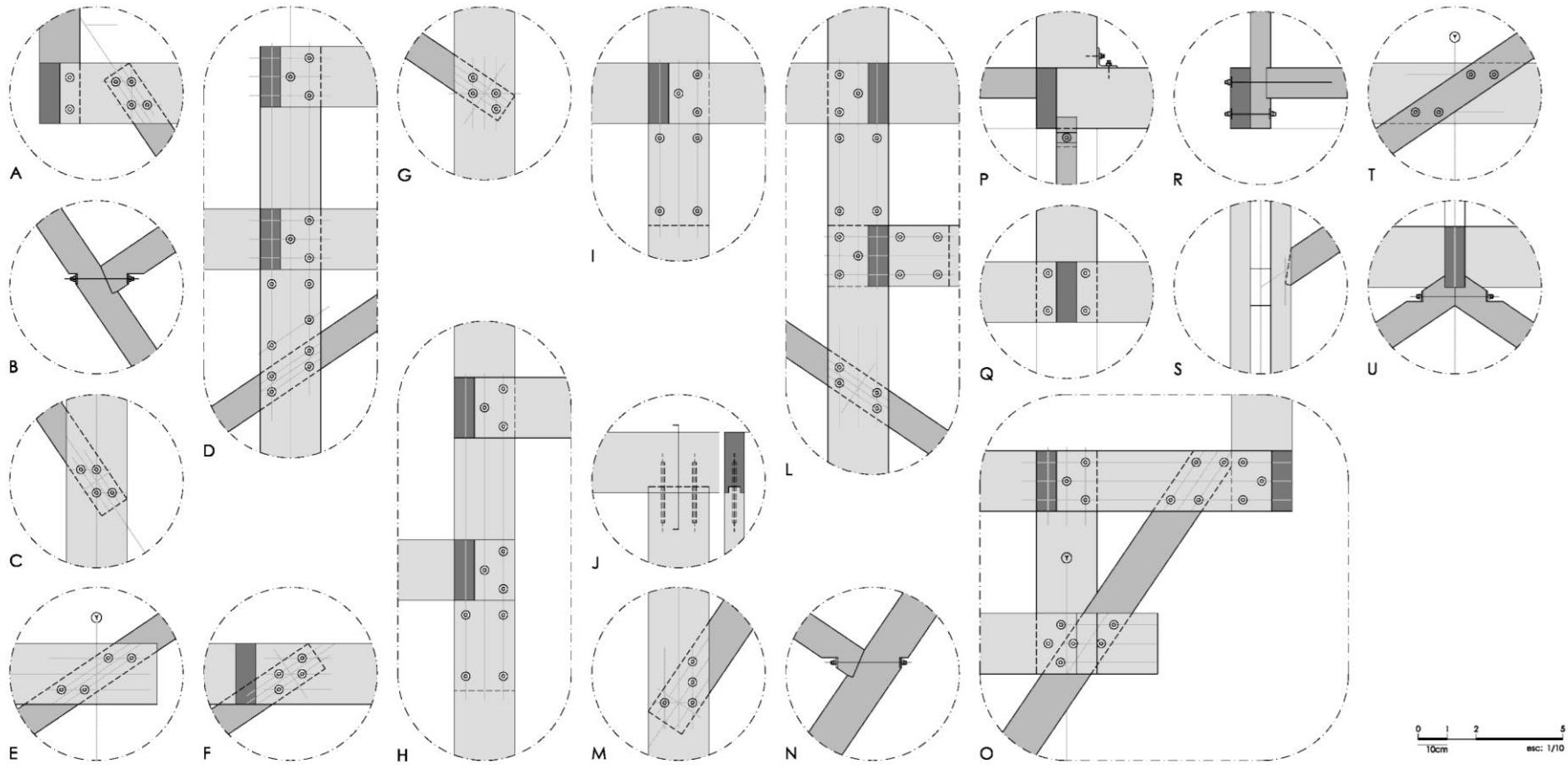
VIGA DE MADEIRA / WOOD BEAM

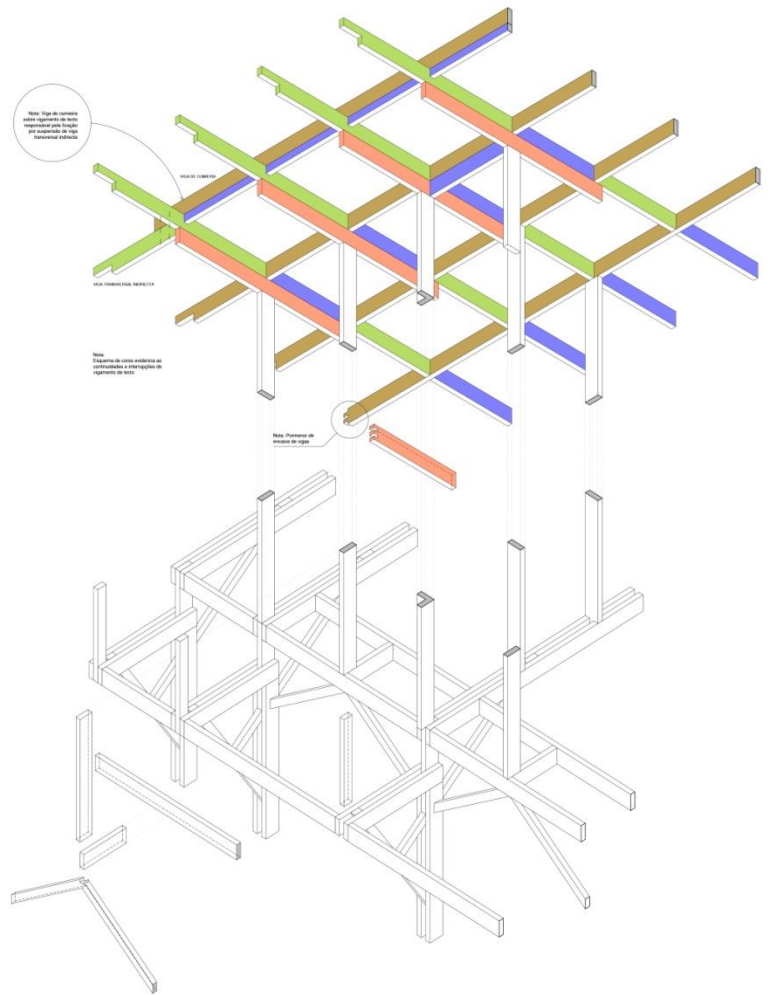
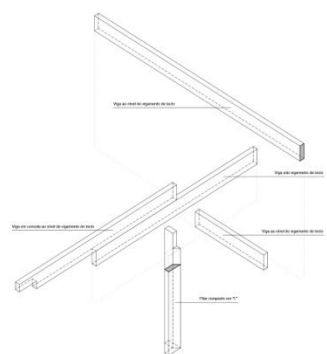
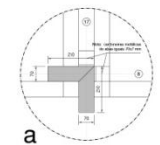
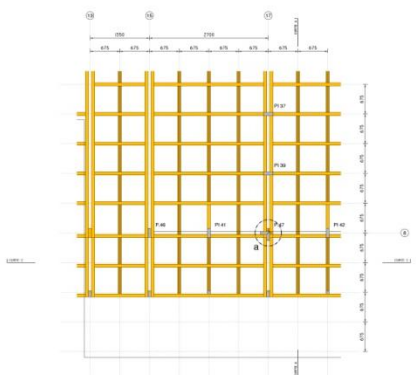
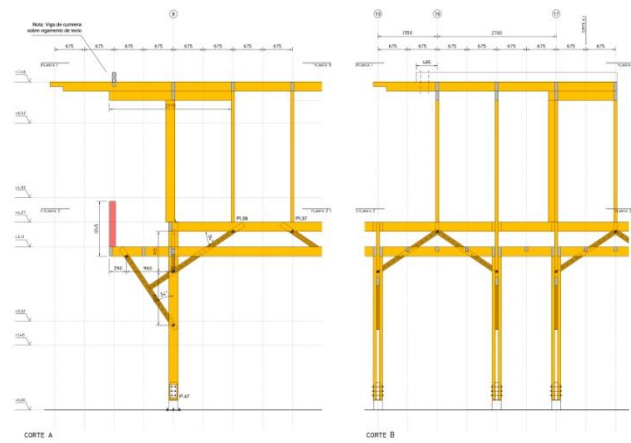
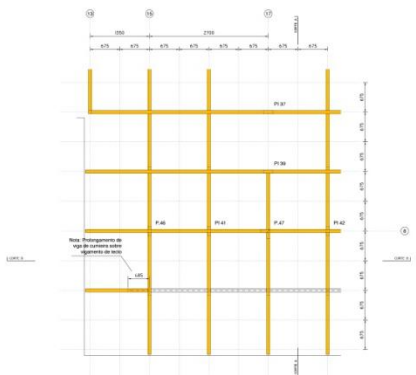
- SOALHO EM MADEIRA / WOOD FLOOR
- AGLOMERADO NEGRO CORTIÇA / BLACK CORK LAYER
- BARREIRA PÁRA VAPOR / STEAM BARRIER
- ISOLAMENTO TÉRMICO / THERMAL LAYER
- FORRO EM MADEIRA / WOOD COATING

- 01 - PONTE 01 - BRIDGE
- 02 - ESCADAS 02 - STAIR
- 03 - PATIO 03 - YARD

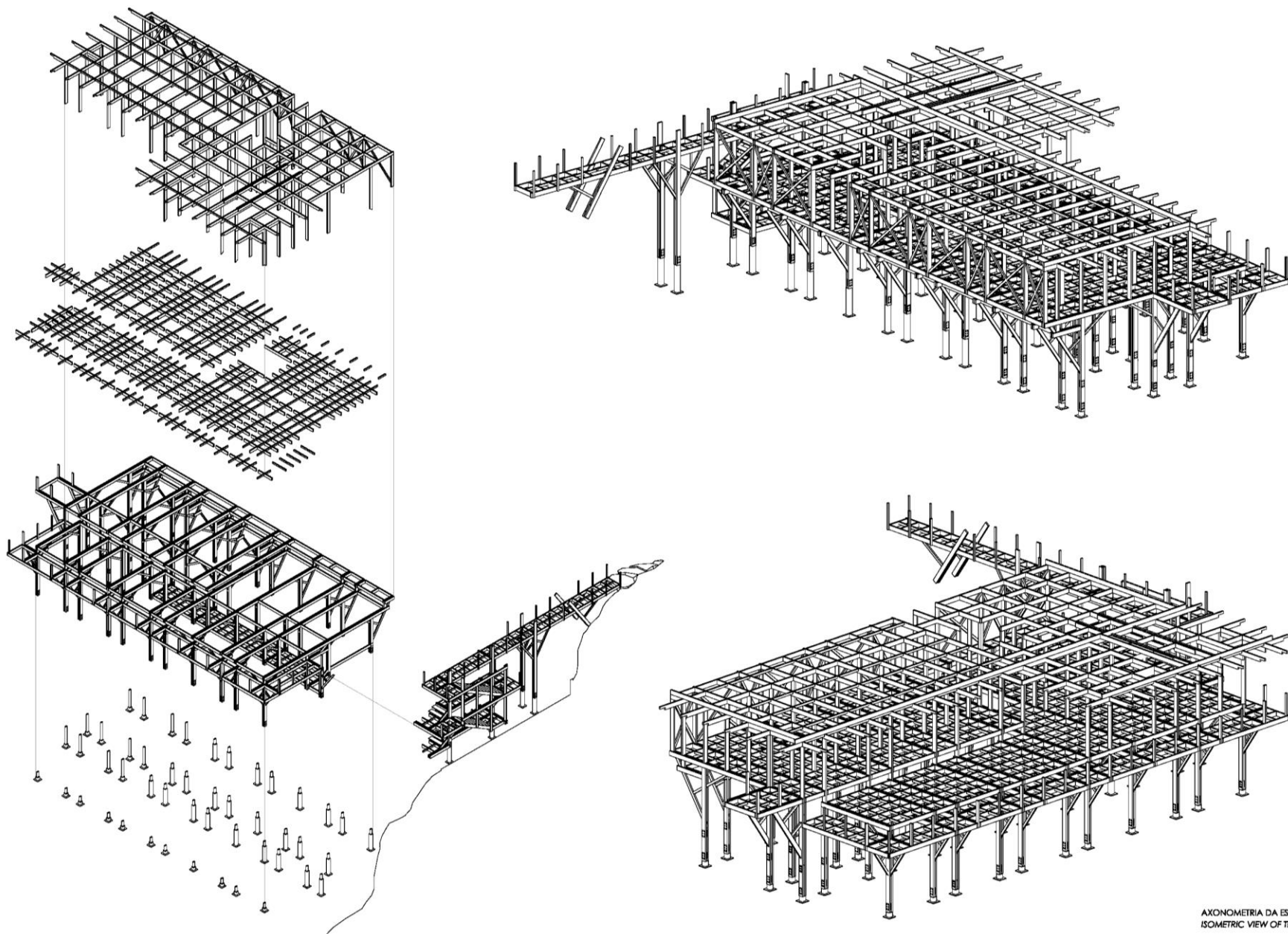


0 1 2 3 5 10
1m esc: 1/100

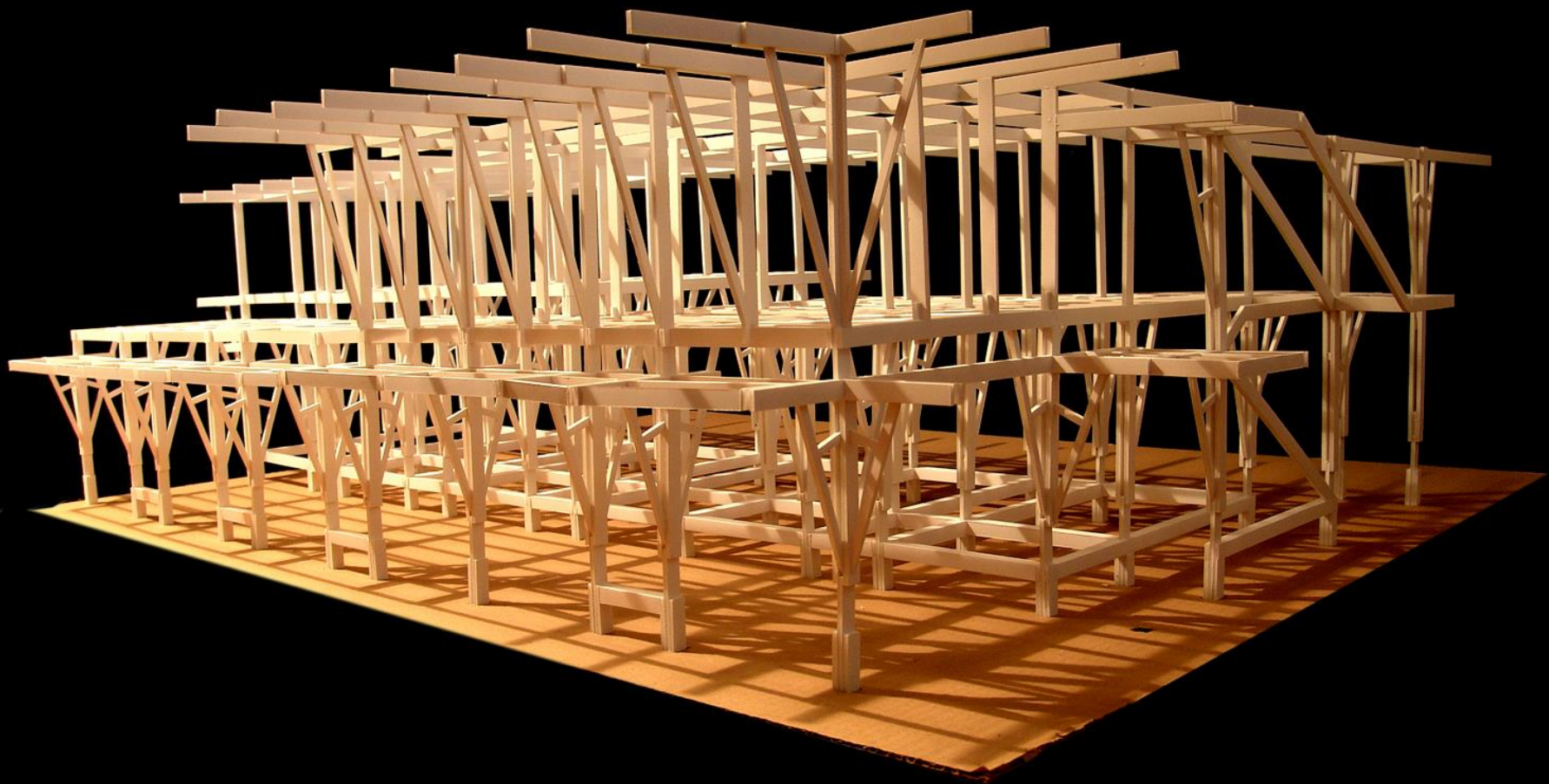


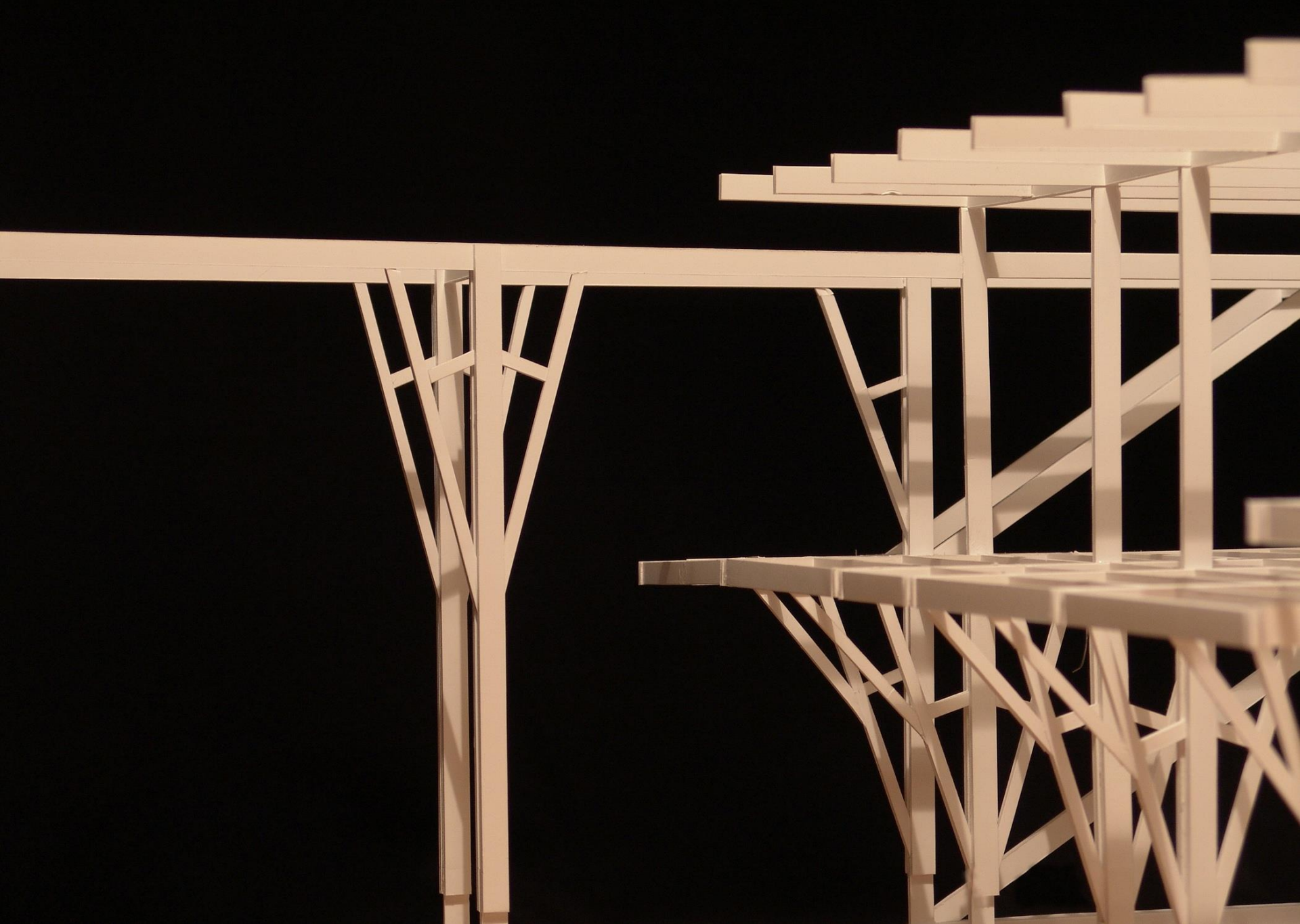


- REFORÇO
- MADEIRA Dim. 210x70 mm
- MADEIRA Dim. 140x70 mm
- MADEIRA Dim. 100x70 mm
- MADEIRA Dim. 70x70 mm



AXONOMETRIA DA ESTRUTURA
ISOMETRIC VIEW OF THE STRUCTURE



























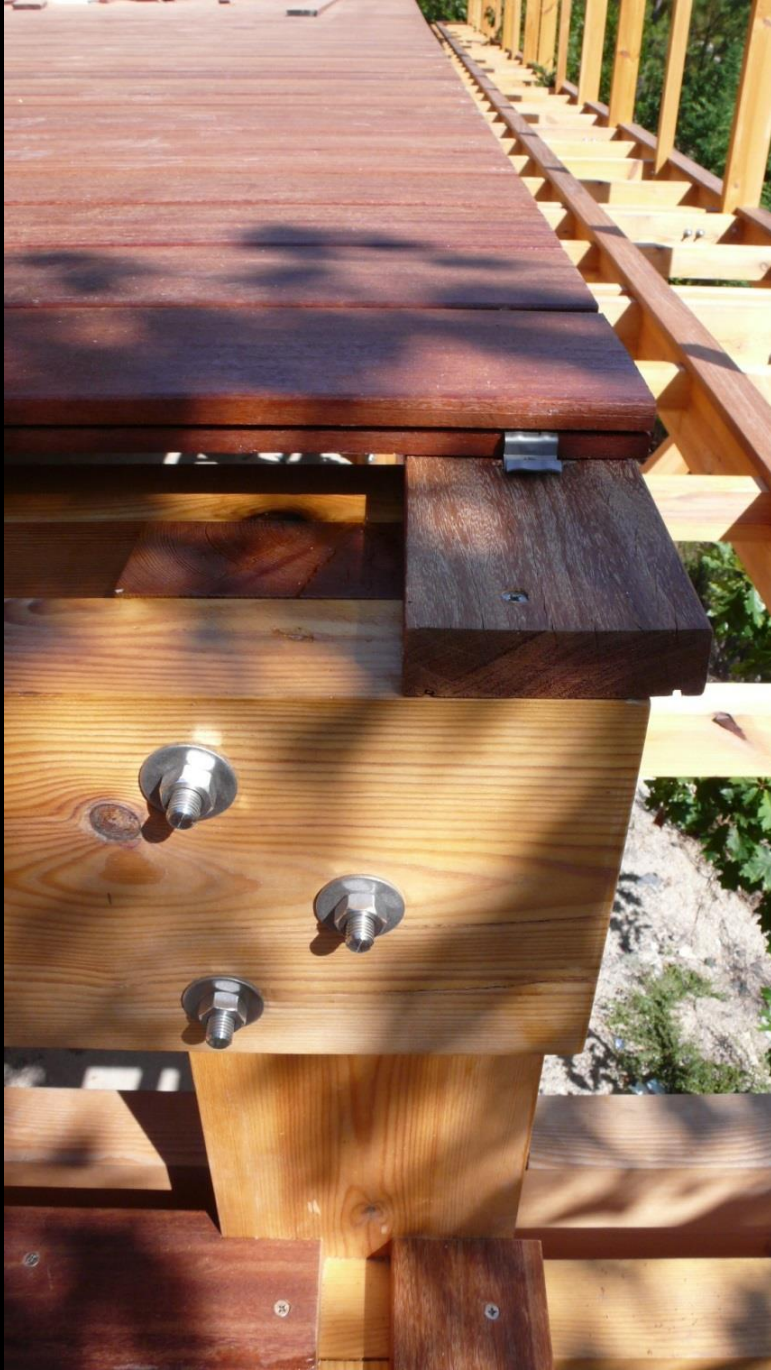






































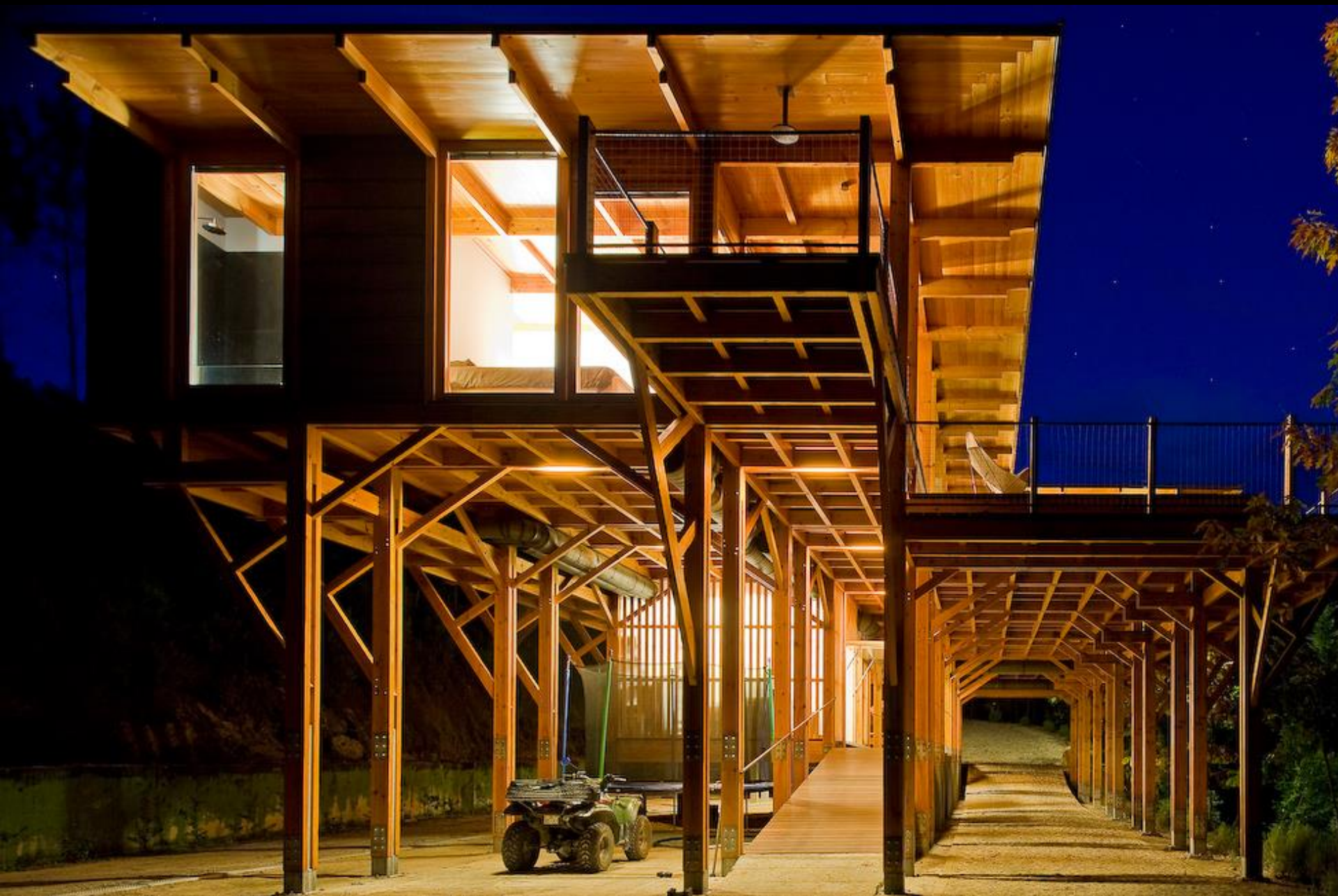






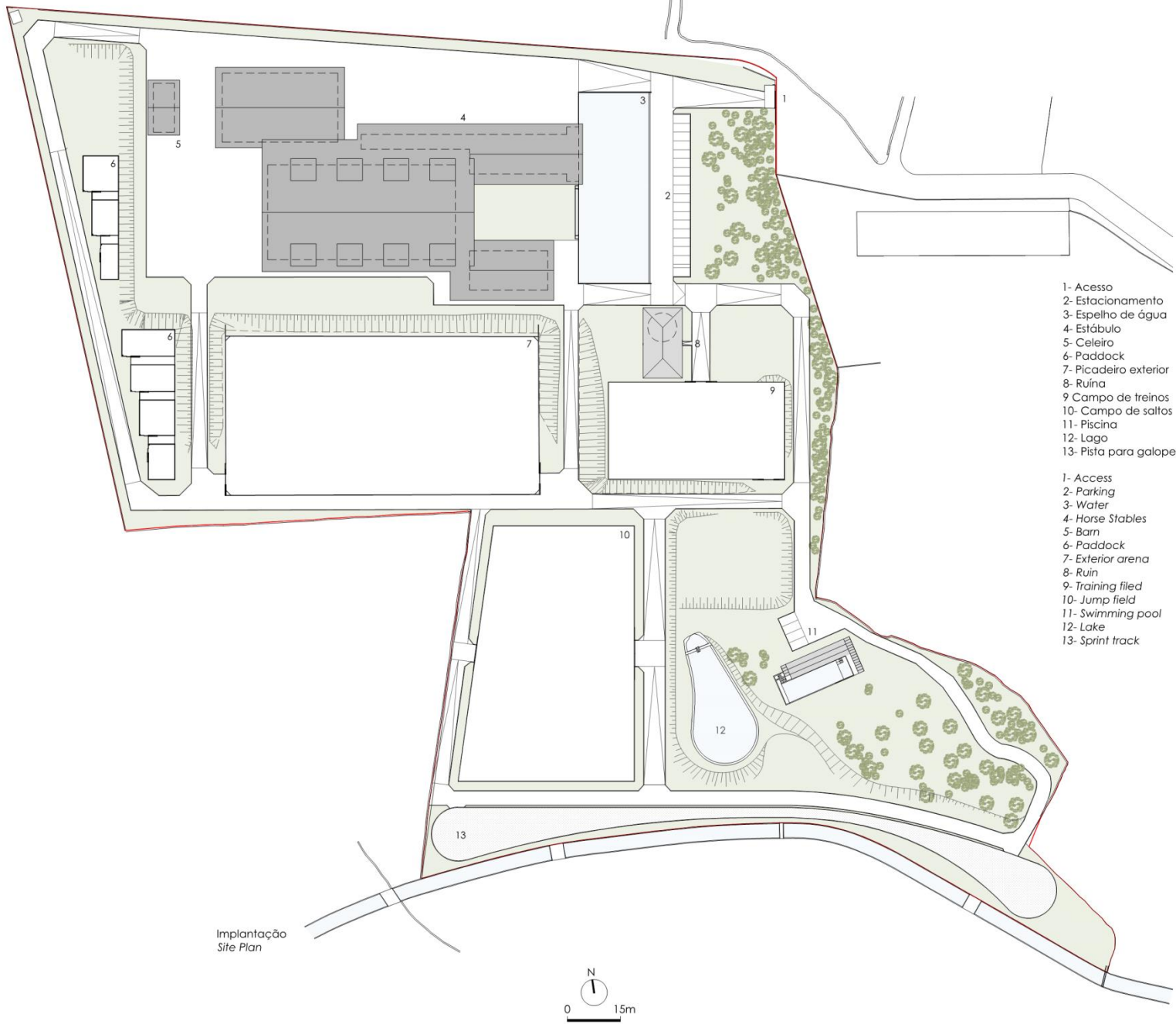






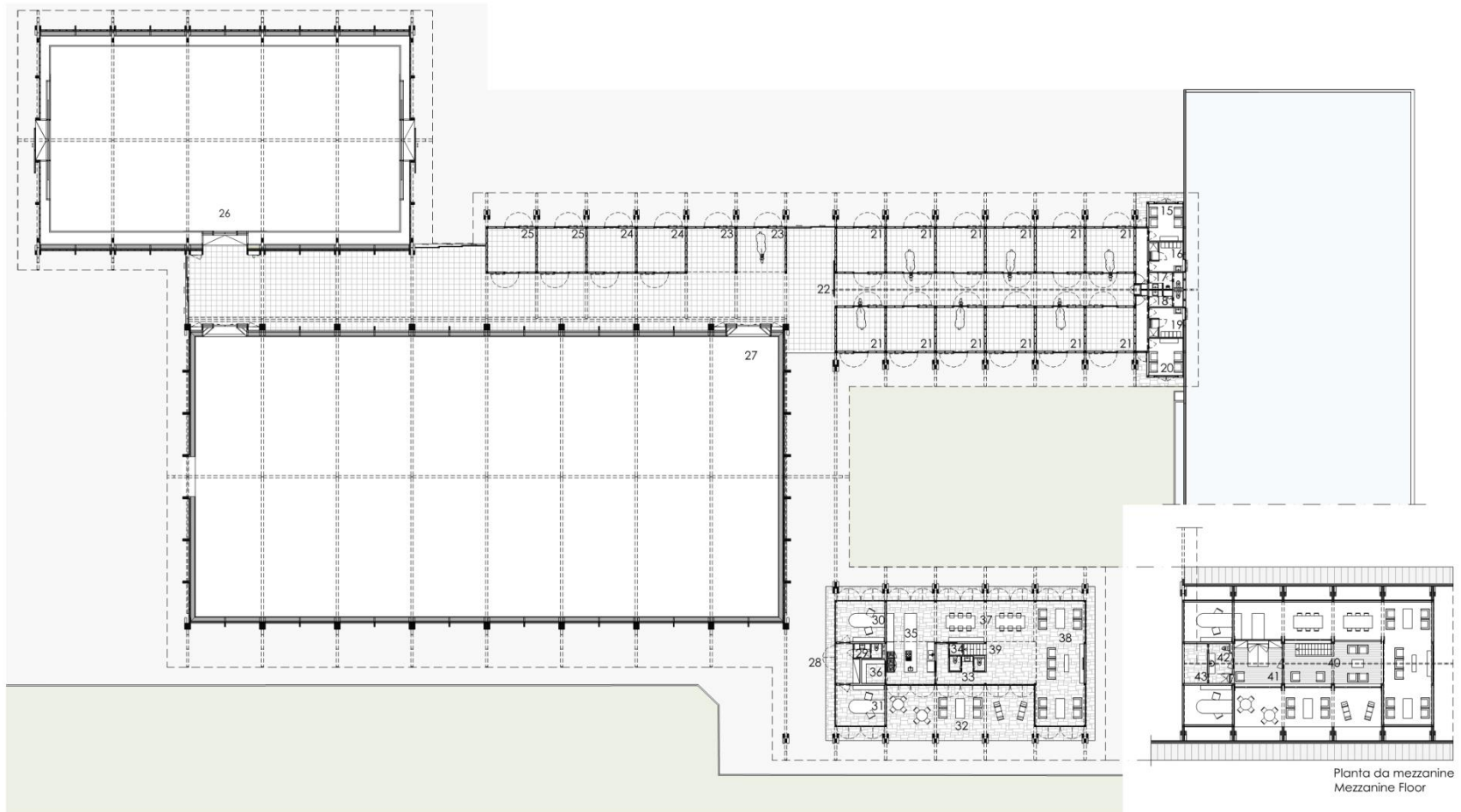


EQUESTRIAN CENTER
2012 – 2017 | Matosinhos, Portugal



- 1- Acesso
- 2- Estacionamento
- 3- Espelho de água
- 4- Estábulo
- 5- Celeiro
- 6- Paddock
- 7- Picadeiro exterior
- 8- Ruína
- 9- Campo de treinos
- 10- Campo de saltos
- 11- Piscina
- 12- Lago
- 13- Pista para galope

- 1- Access
- 2- Parking
- 3- Water
- 4- Horse Stables
- 5- Barn
- 6- Paddock
- 7- Exterior arena
- 8- Ruin
- 9- Training field
- 10- Jump field
- 11- Swimming pool
- 12- Lake
- 13- Sprint track



Planta de piso
Floor Plan

- 15- Sala de descanso masculino
- 16- Banheiro masculino
- 17- Sanitário masculino
- 18- Sanitário feminino
- 19- Banheiro feminino
- 20- Sala de descanso feminino
- 21- Box
- 22- Acesso para cavalos
- 23- Lavagem de cavalos
- 24- Box de arreios
- 25- Arrumos
- 26- Picadeiro de treinos

- 27- Picadeiro principal
- 28- Acesso aos escritórios
- 29- Sanitário
- 30- Escritório 1
- 31- Escritório 2
- 32- Lounge
- 33- Sanitários
- 34- Área técnica
- 35- Cozinha
- 36- Despensa
- 37- Sala de jantar
- 38- Salão de convívio

- 39- Acesso à mezzanine
- 40- Mezzanine
- 41- Quarto
- 42- Sanitário
- 43- Área técnica

- 15- Male rest room
- 16- Male showers
- 17- Male WC
- 18- Female WC
- 19- Female showers
- 20- Female rest room
- 21- Box
- 22- Horse access
- 23- Horse cleaning box
- 24- Harness box
- 25- Storage
- 26- Training arena

- 27- Main arena
- 28- Office access
- 29- WC
- 30- Office 1
- 31- Office 2
- 32- Lounge
- 33- WC
- 34- Technical area
- 35- Kitchen
- 36- Kitchen Storage
- 37- Dining room
- 38- Living room

Planta da mezzanine
Mezzanine Floor

- 39- Mezzanine access
- 40- Mezzanine
- 41- Room
- 42- WC
- 43- Technical area

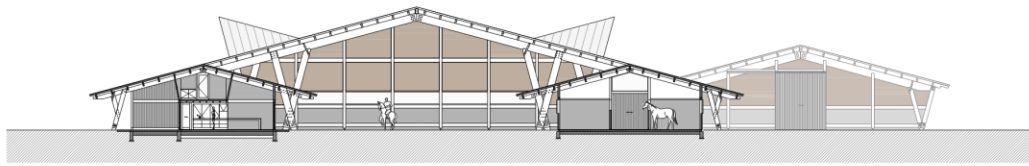




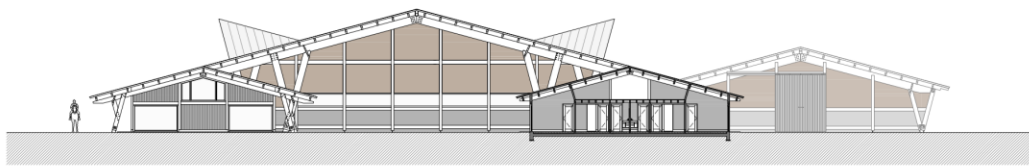
Corte A
Section A



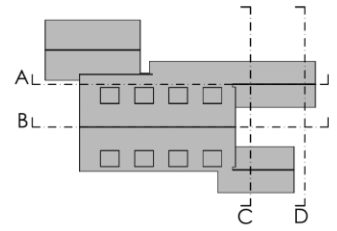
Corte B
Section B

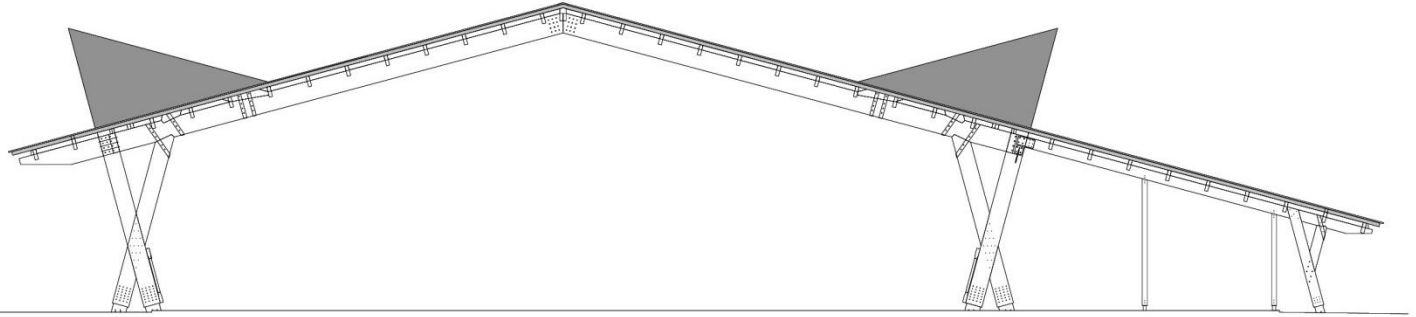
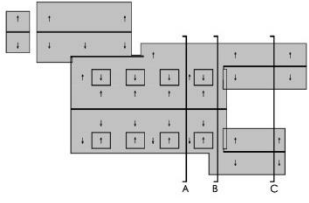


Corte C
Section C

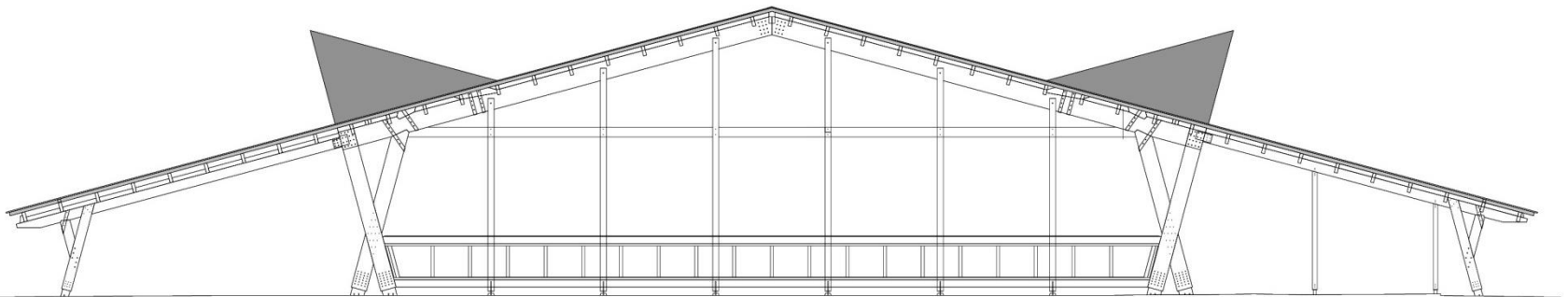


Corte D
Section D





CORTE A

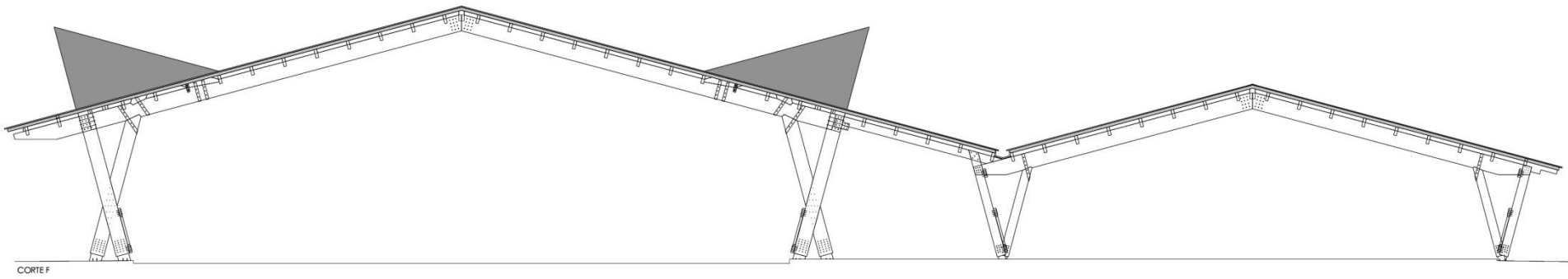
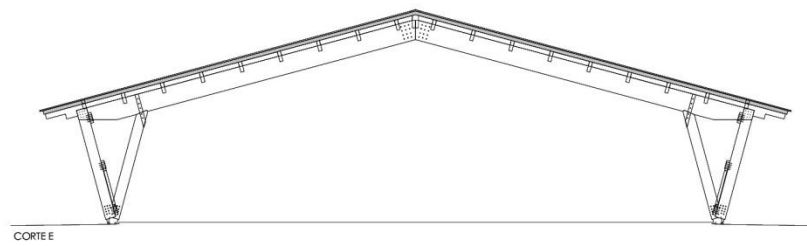
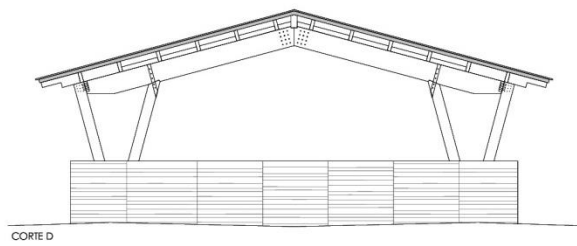
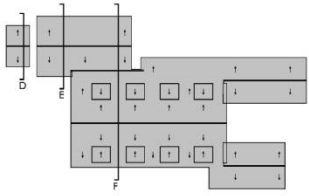


CORTE B

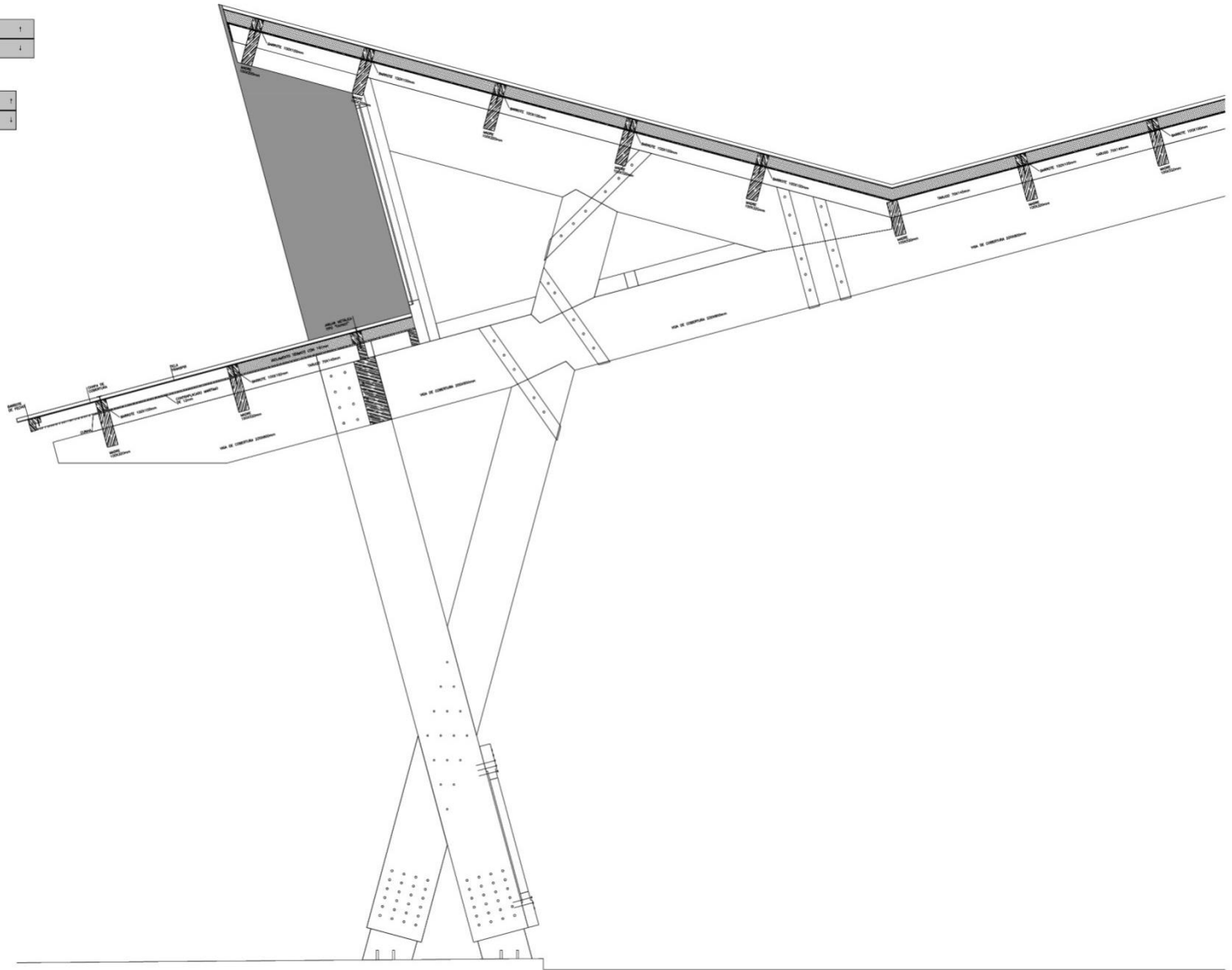
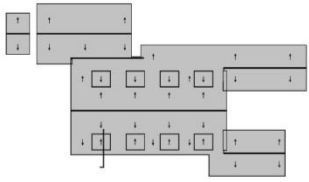


CORTE C





PÓRTICOS DE MADEIRA



0 0.5m

PORMENOR DA COBERTURA



















































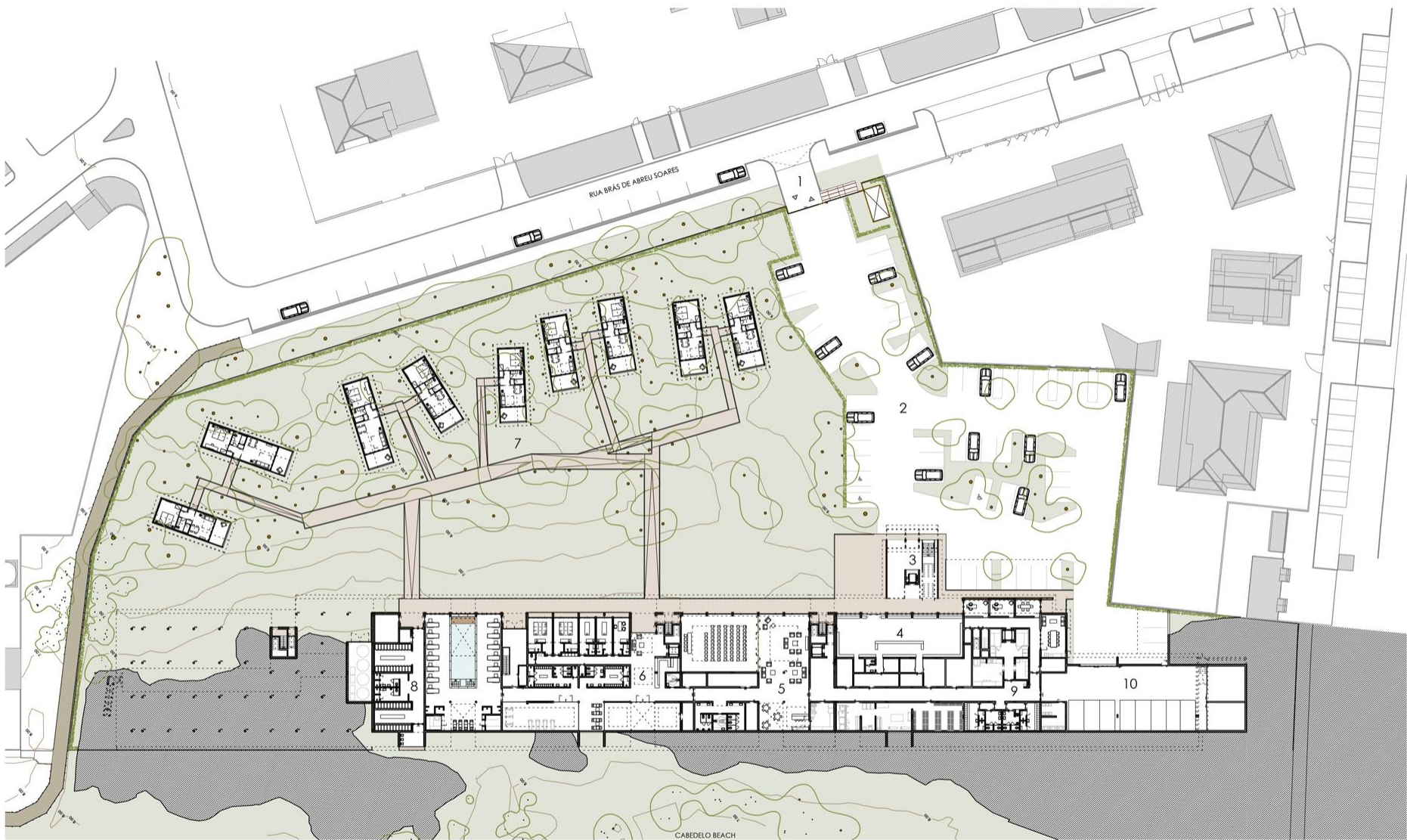








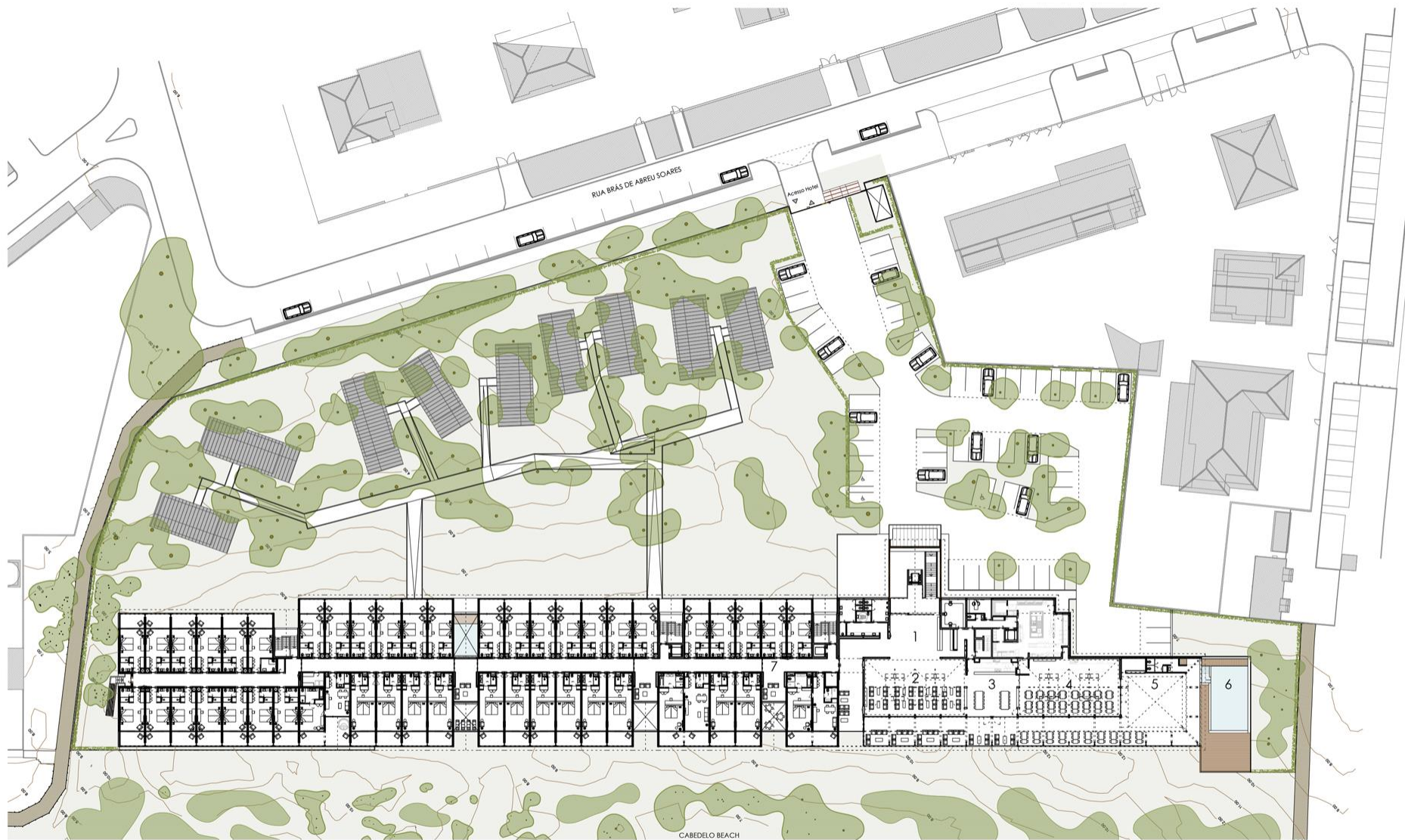
F E E L V I A N A H O T E L
2014 – 2017 | Viana do Castelo, Portugal



1st Floor Plan

- 1. Hotel access
- 2. Parking
- 3. Hotel Lobby access
- 4. Store
- 5. Events Center
- 6. Wellness Center
- 7. Bungalows
- 8. Outdoor activities lockers and wc
- 9. Staff areas
- 10. Garage

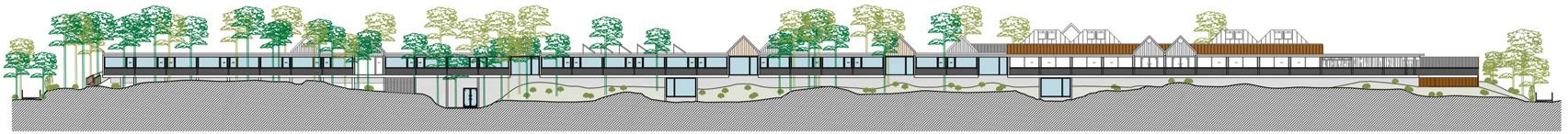




2nd Floor Plan

- 1. Hotel Lobby
- 2. Lounge
- 3. Bar
- 4. Restaurant
- 5. Exterior Lounge
- 6. Swimming pool
- 7. Rooms area

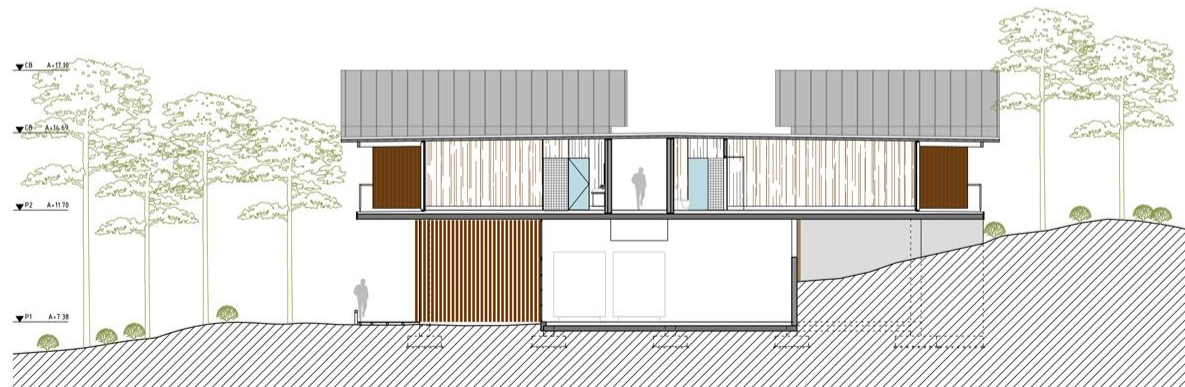




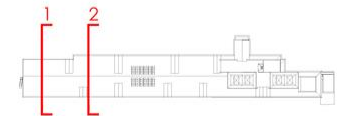
West Elevation



Section 1



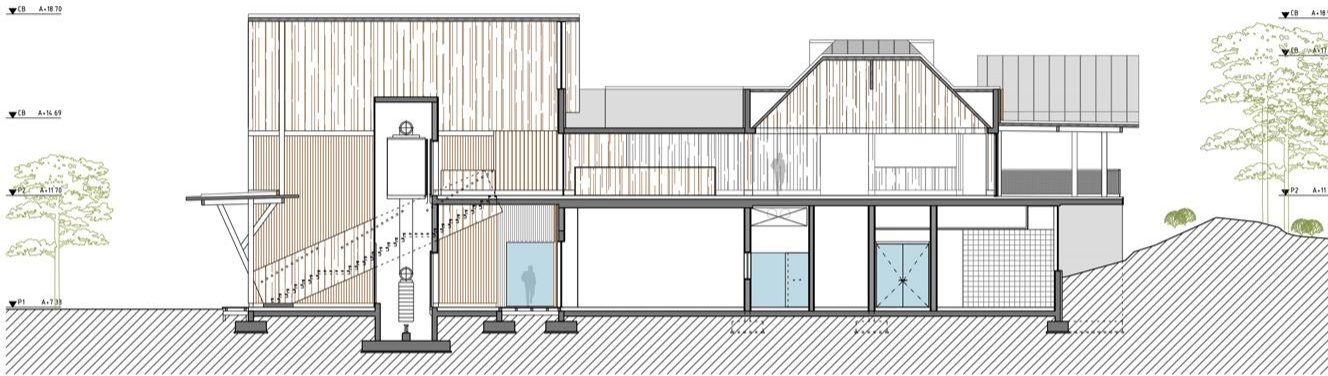
Section 2



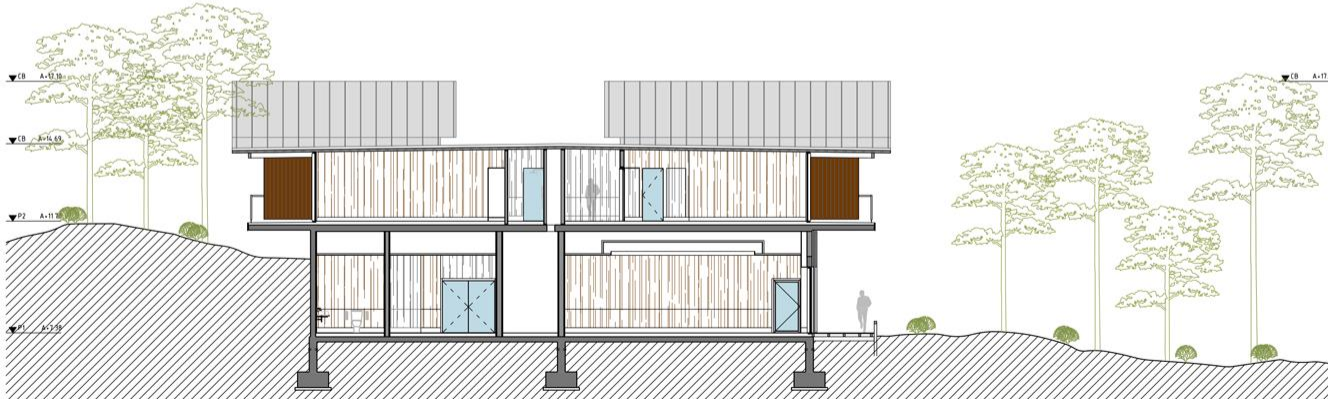


Section 3

0 8m

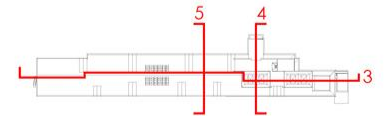


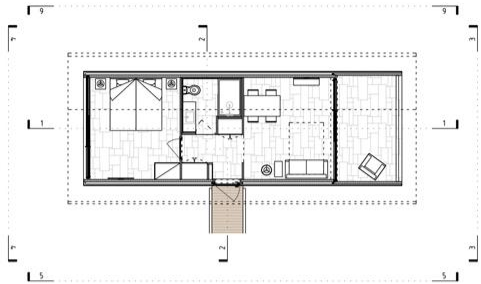
Section 4



Section 5

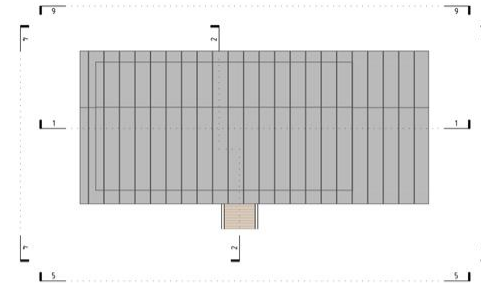
0 2.5m



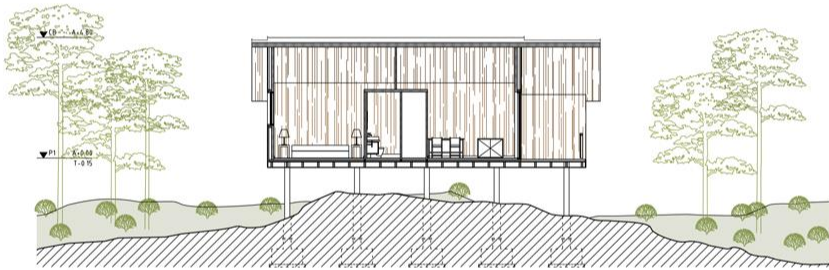


Floor Plan

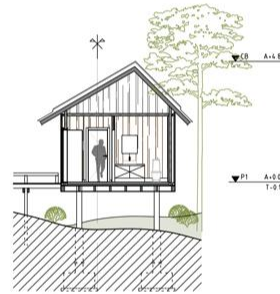
Bungalow A



Roof Plan



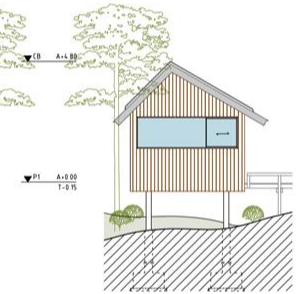
Section 1



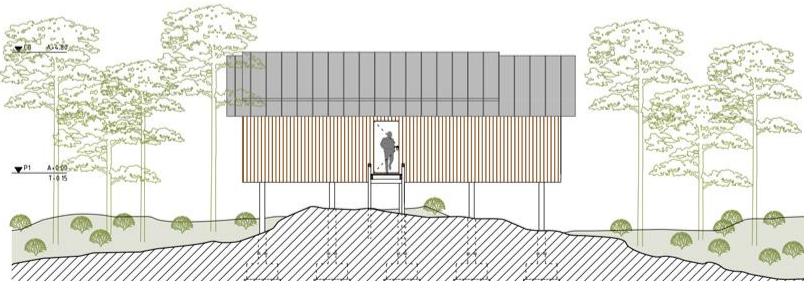
Section 2



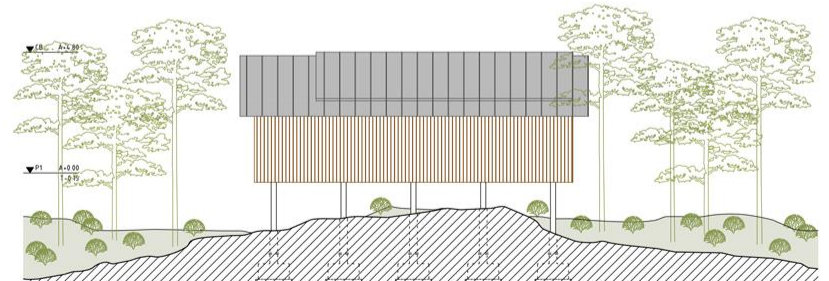
Section 3



Section 4

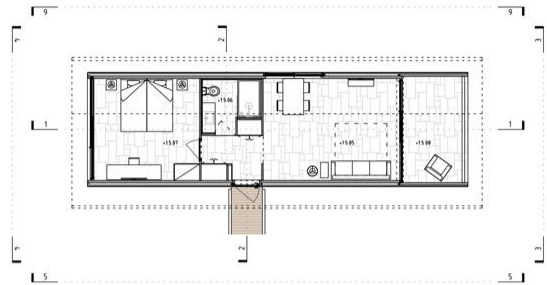


Section 5



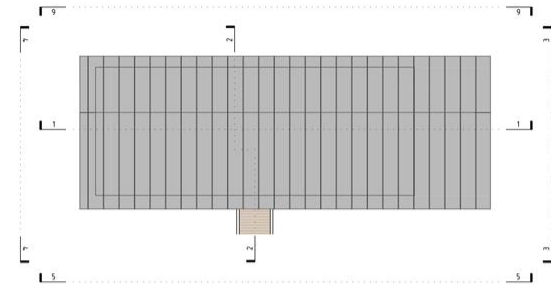
Section 6



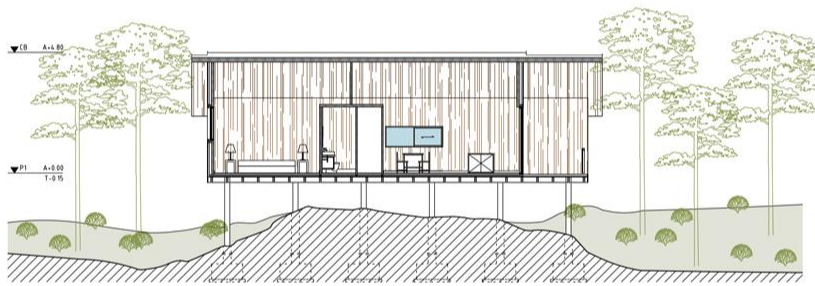


Floor Plan

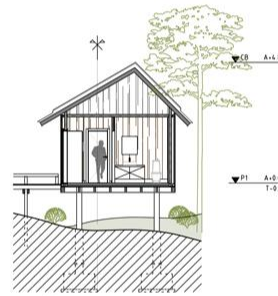
Bungalow B



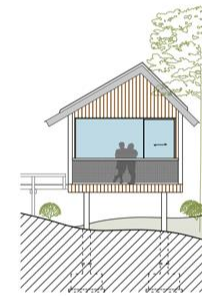
Roof Plan



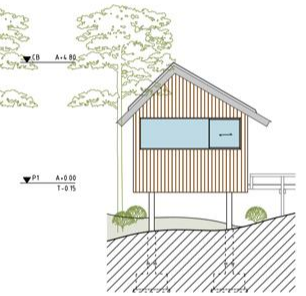
Section 1



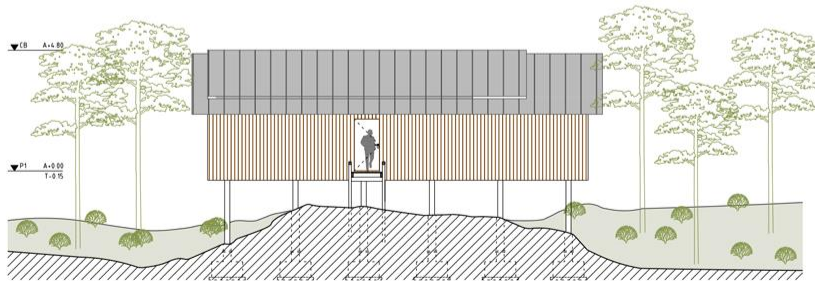
Section 2



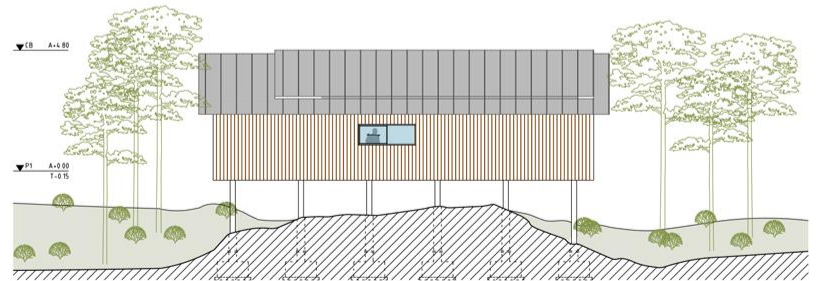
Section 3



Section 4



Section 5



Section 6

















TOC TOC | TIMBER ARCHITECTURE IN FOCUS

FeelViana Hotel | 2014 - 2017 | Viana do Castelo, Portugal











TOC TOC | TIMBER ARCHITECTURE IN FOCUS

FeelViana Hotel | 2014 - 2017 | Viana do Castelo, Portugal



















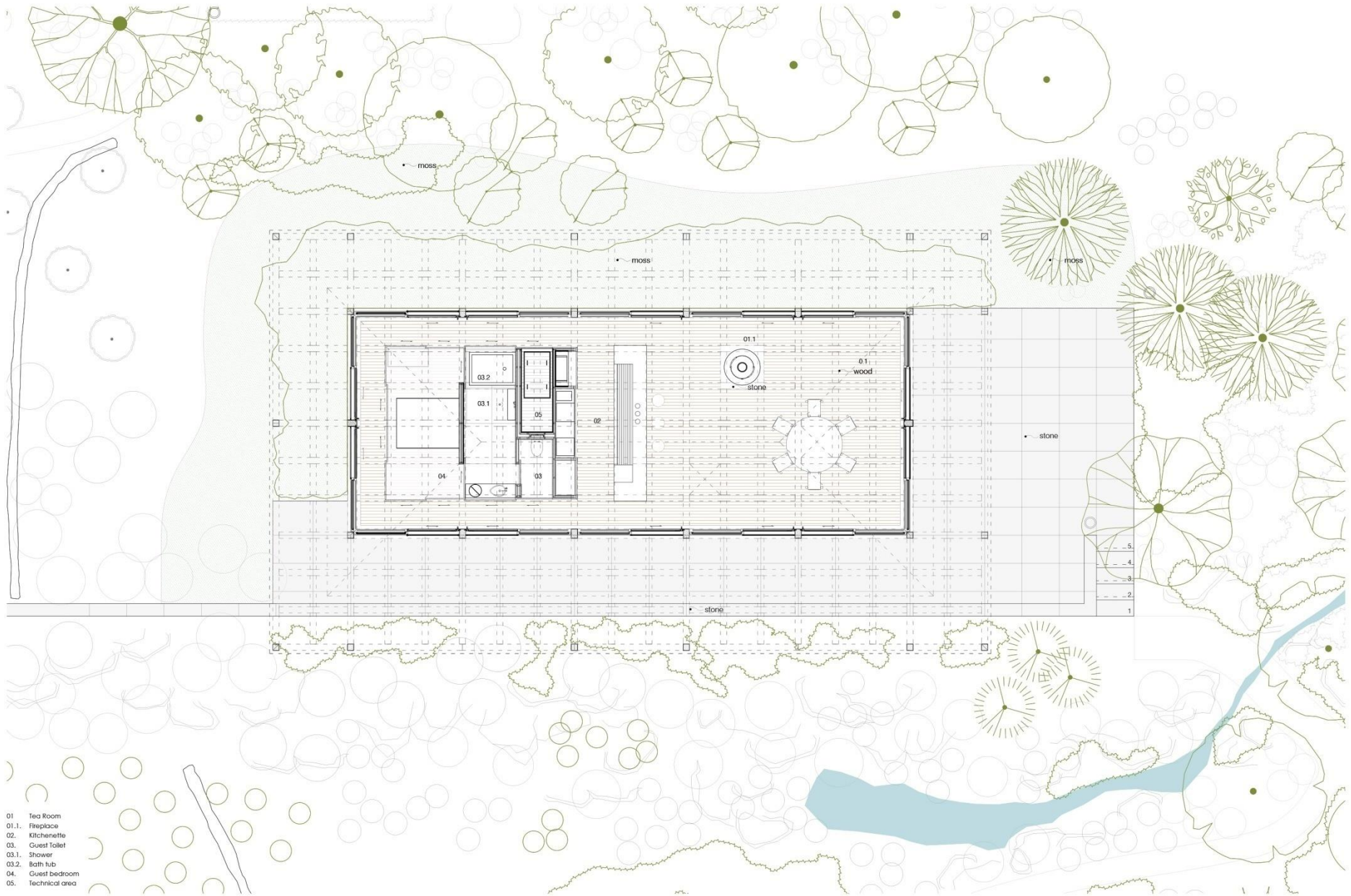


J E J U T E A H O U S E
Álvaro Siza com Carlos Castanheira
2014 – 2018 | Jeju Island, South Korea



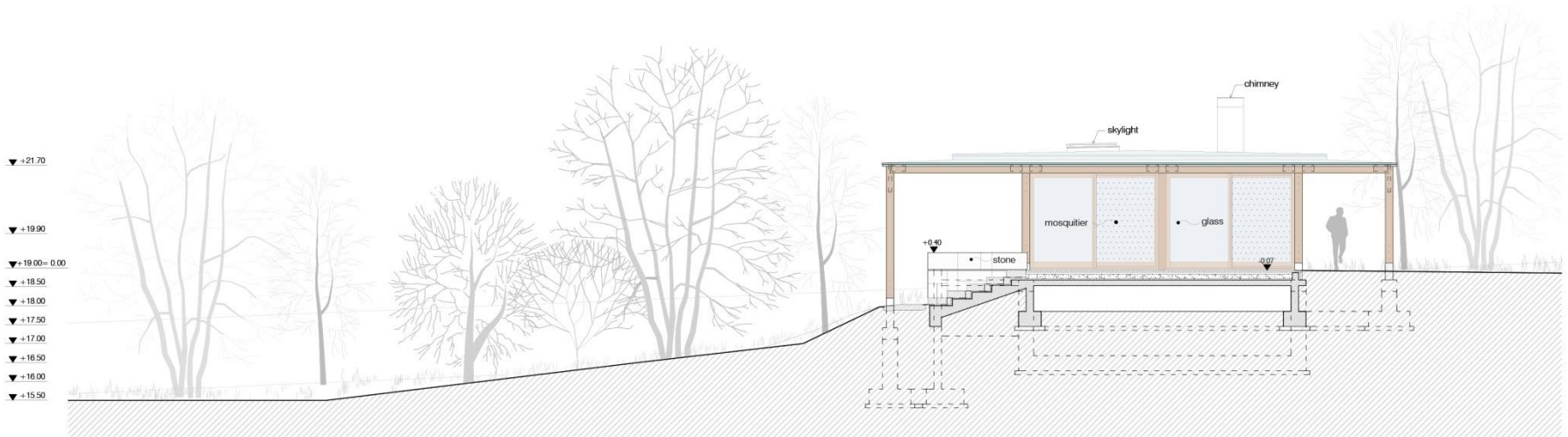
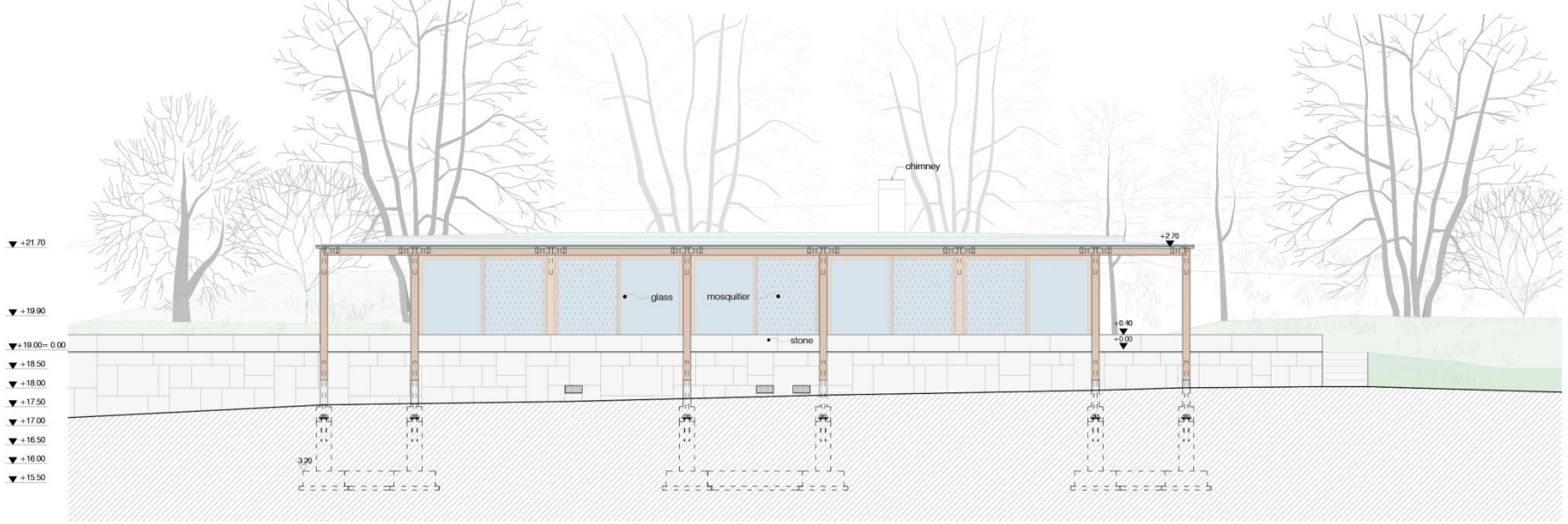
SITE PLAN

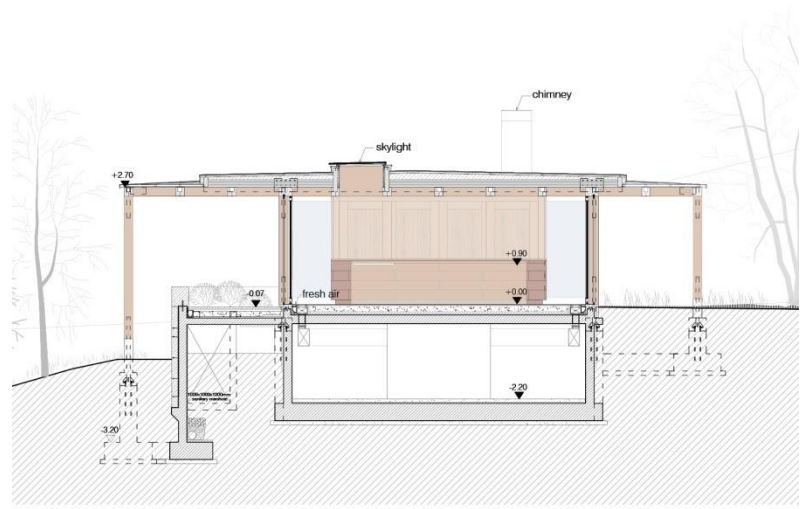
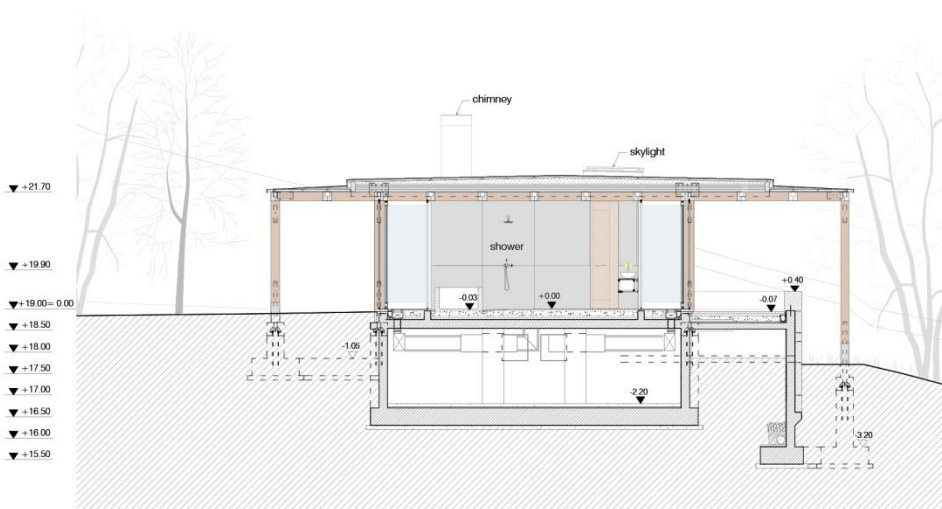
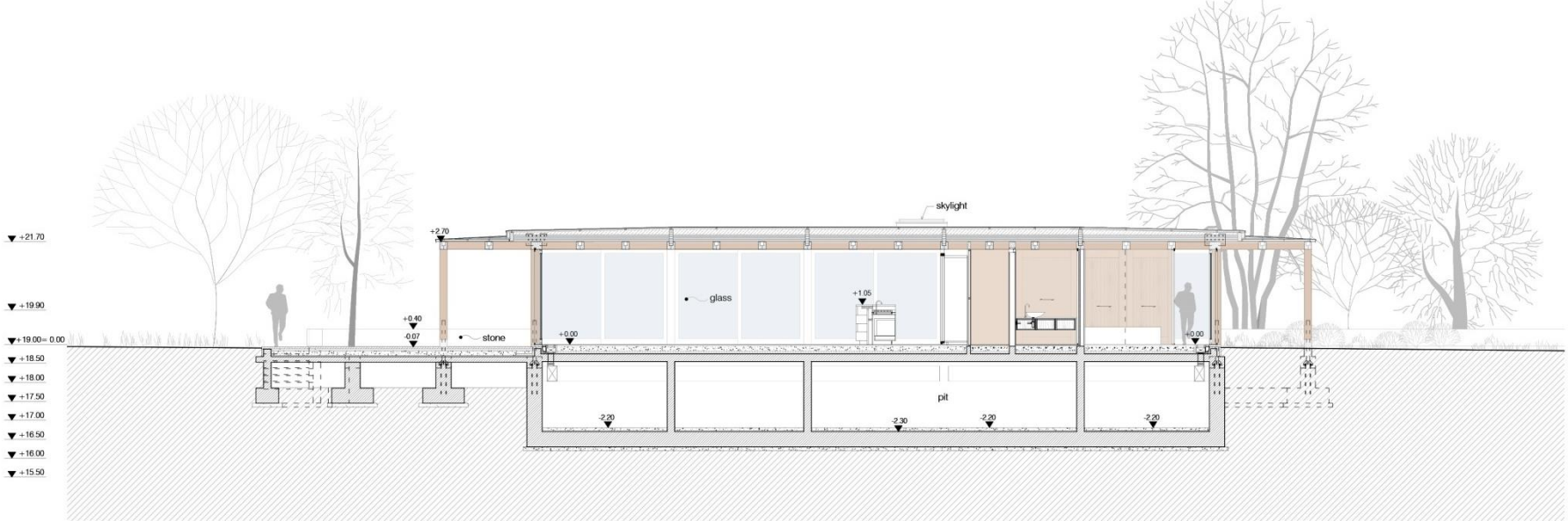


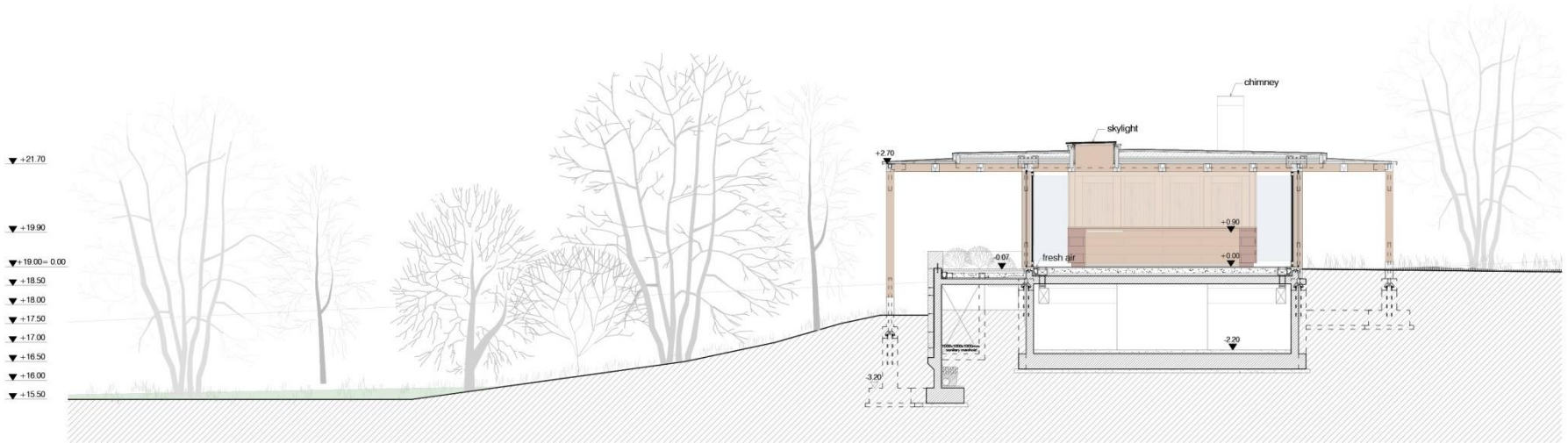
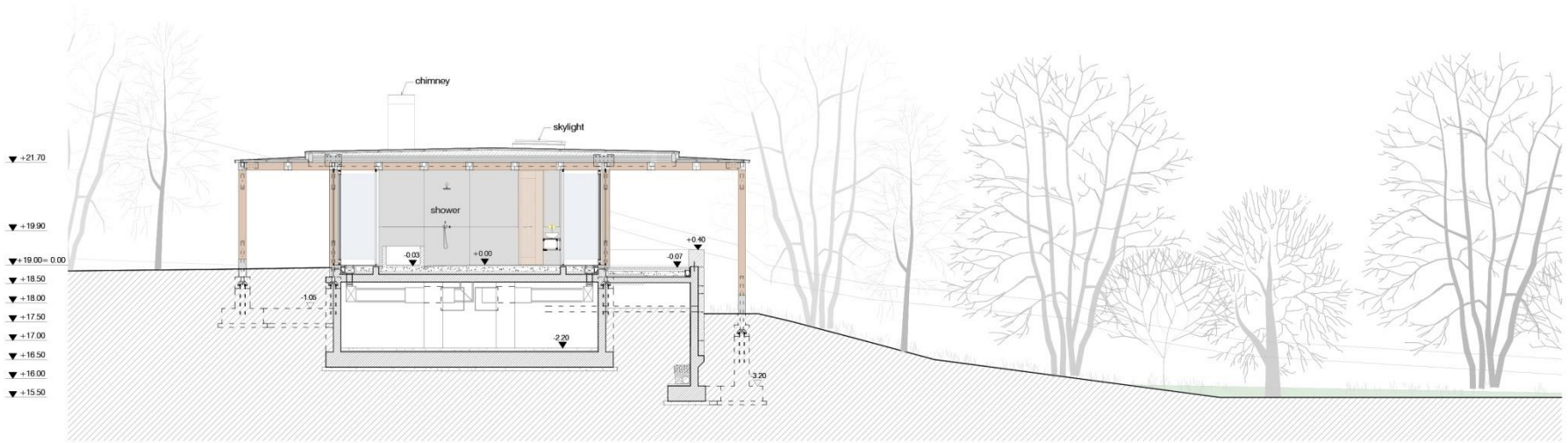


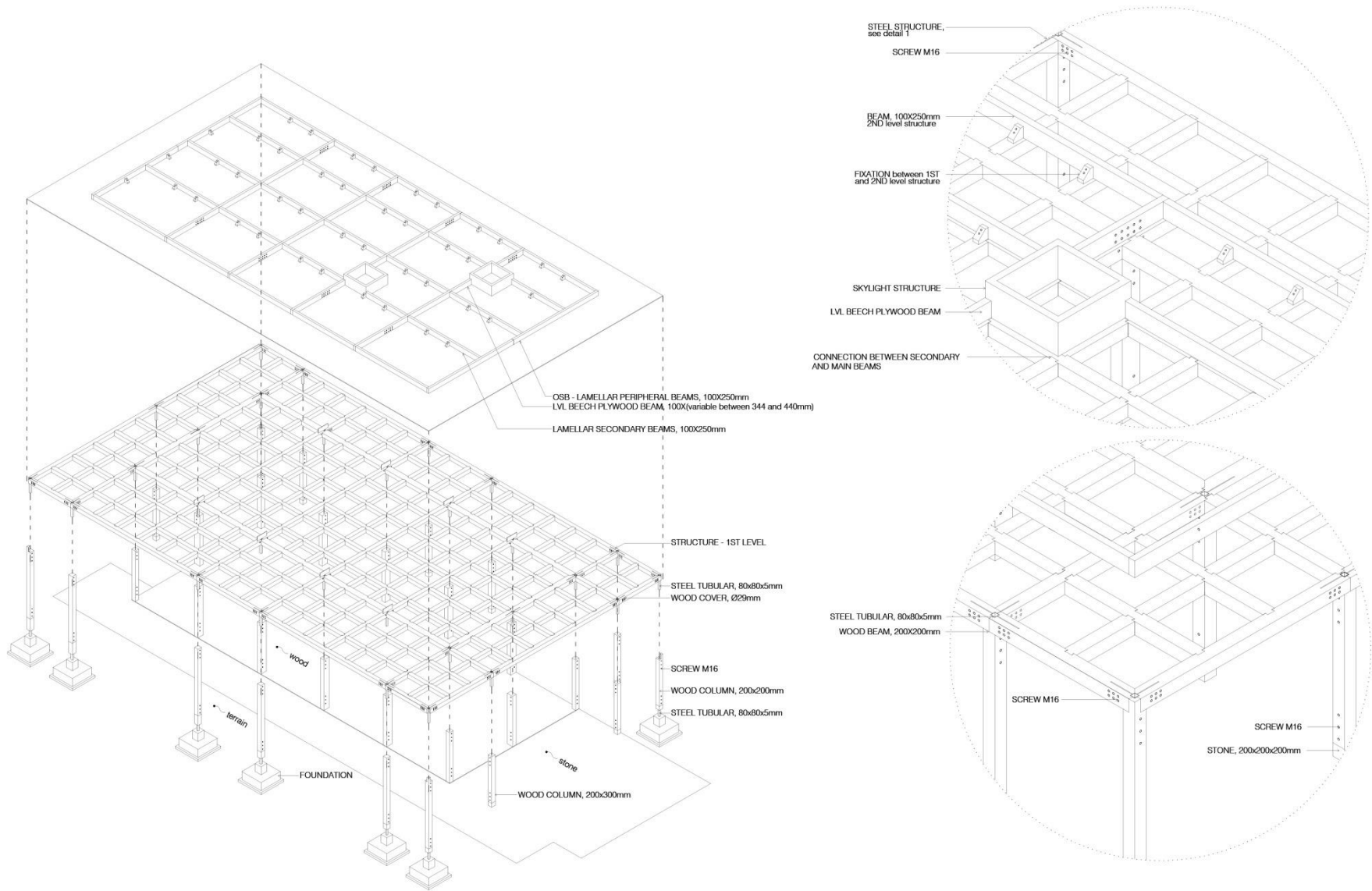
- 01. Tea Room
- 01.1. Fireplace
- 02. Kitchenette
- 03. Guest Toilet
- 03.1. Shower
- 03.2. Bath tub
- 04. Guest bedroom
- 05. Technical area

GROUND FLOOR PLAN

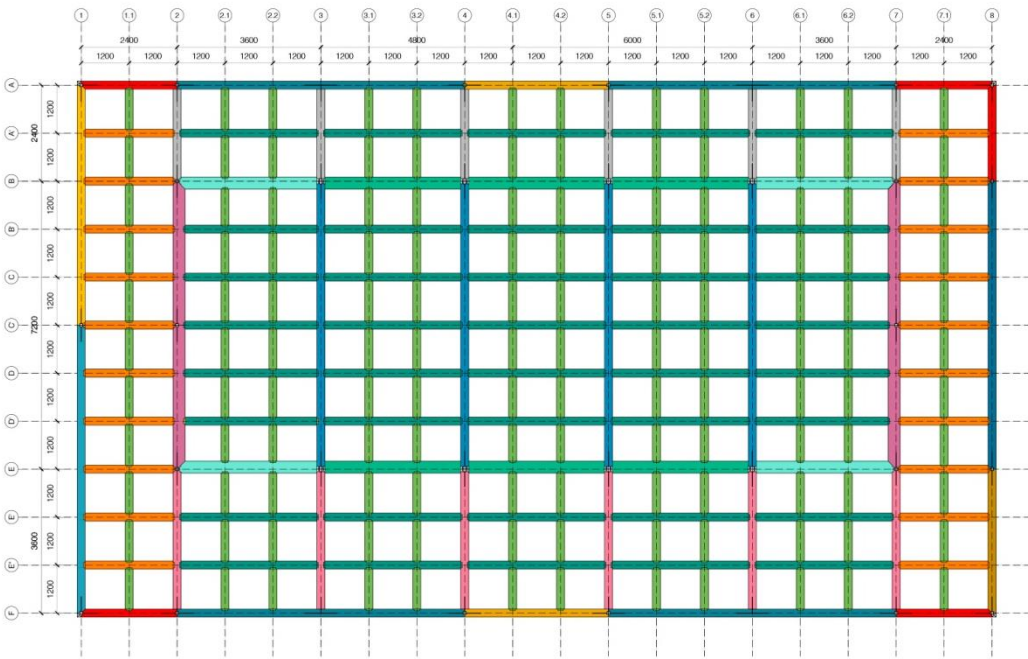




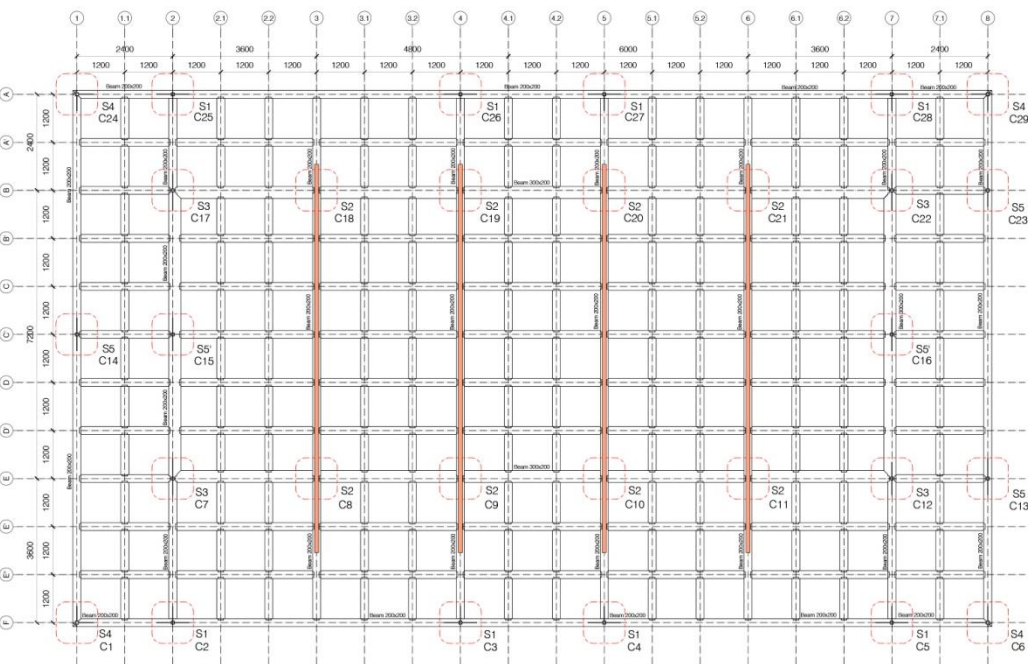


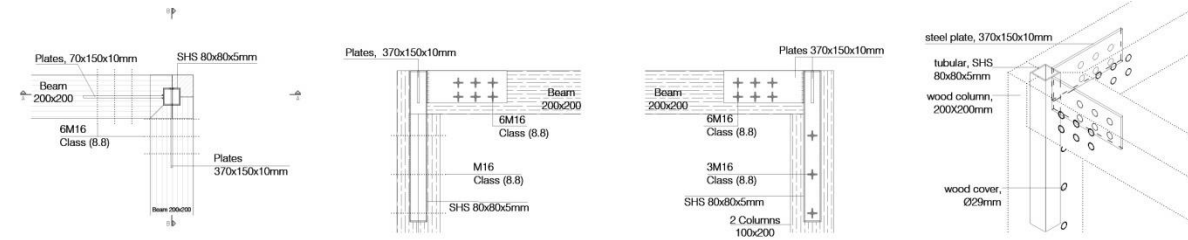


STRUCTURE AXONOMETRIC VIEW

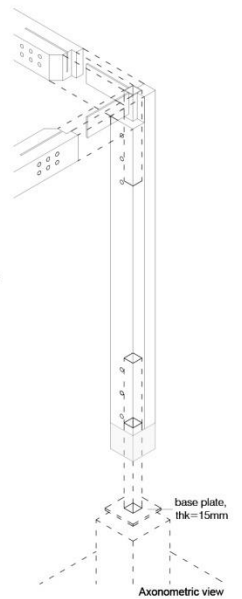
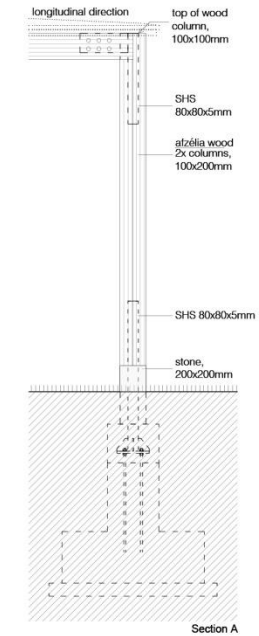
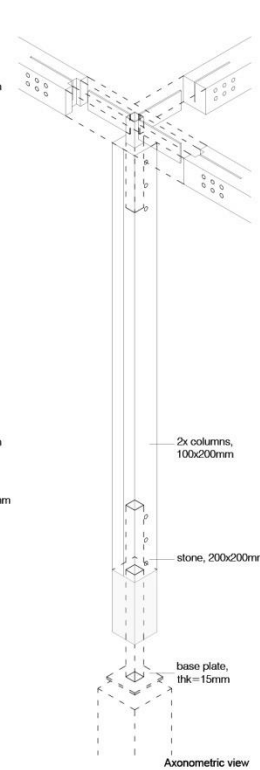
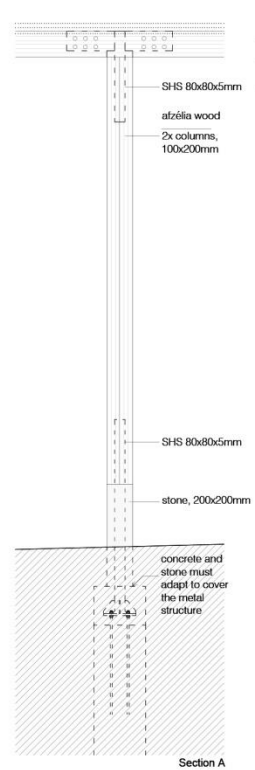
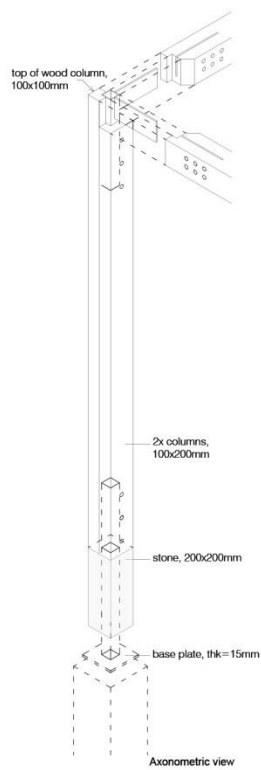
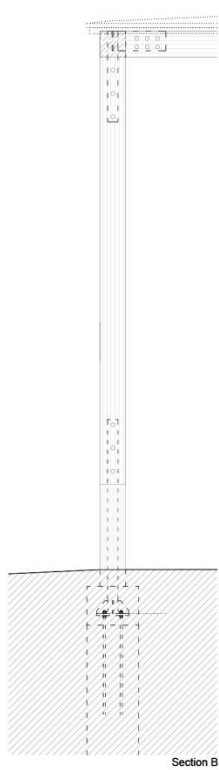
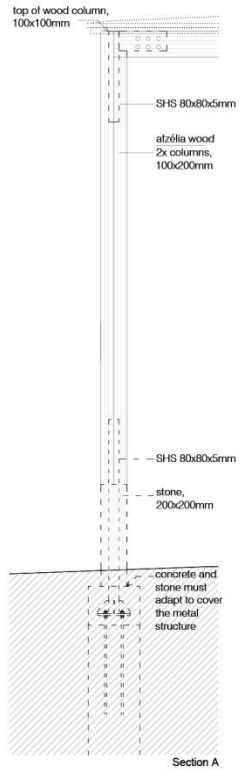
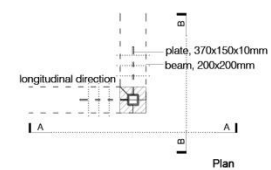
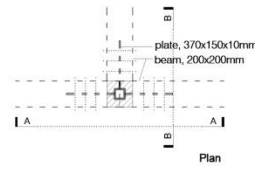
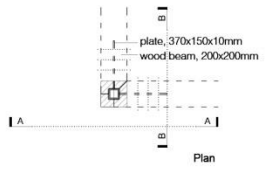


- B1 - 7200x200x200mm
- B1.1 - 7200x200x200mm
- B1.2 - 7200x200x200mm
- B1.3 - 7200x200x200mm
- B2 - 6000x200x200mm
- B3 - 3600x200x200mm
- B3.1 - 3600x200x200mm
- B3.2 - 3600x300x200mm
- B3.3 - 3500x200x200mm
- B4 - 3470x300x200mm
- B4.1 - 3470x300x200mm
- B4.2 - 3470 or 3370x200x200mm
- B5 - 2400x200x200mm
- B6 - 2300x200x200mm
- B7 - 2270x200x200mm
- B8 - 1070 or 970x200x200mm





STEEL STRUCTURE DETAILS



PILARS DETAILS















TOC TOC | TIMBER ARCHITECTURE IN FOCUS



AS & CC | Jeju Tea House | 2014 - 2018 | Jeju Island, South Korea



TOC TOC | TIMBER ARCHITECTURE IN FOCUS



AS & CC | Jeju Tea House | 2014 - 2018 | Jeju Island, South Korea









TOC TOC | TIMBER ARCHITECTURE IN FOCUS AS & CC | Jeju Tea House | 2014 - 2018 | Jeju Island, South Korea



























TOC TOC | TIMBER ARCHITECTURE IN FOCUS

AS & CC | Jeju Tea House | 2014 - 2018 | Jeju Island, South Korea











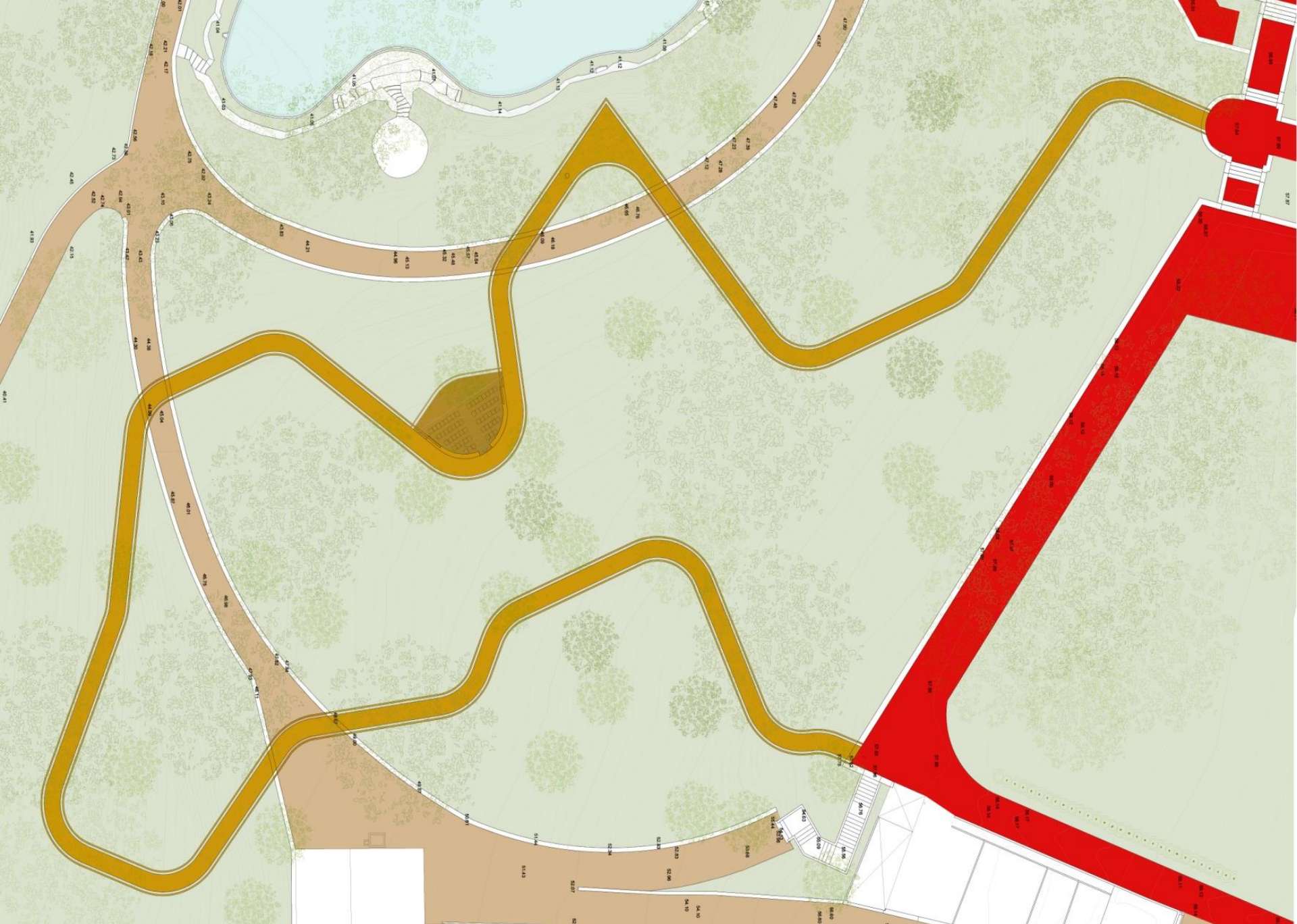
TREETOP WALK SERRALVES
2018 – 2019 | Porto, Portugal

















TOC TOC | TIMBER ARCHITECTURE IN FOCUS

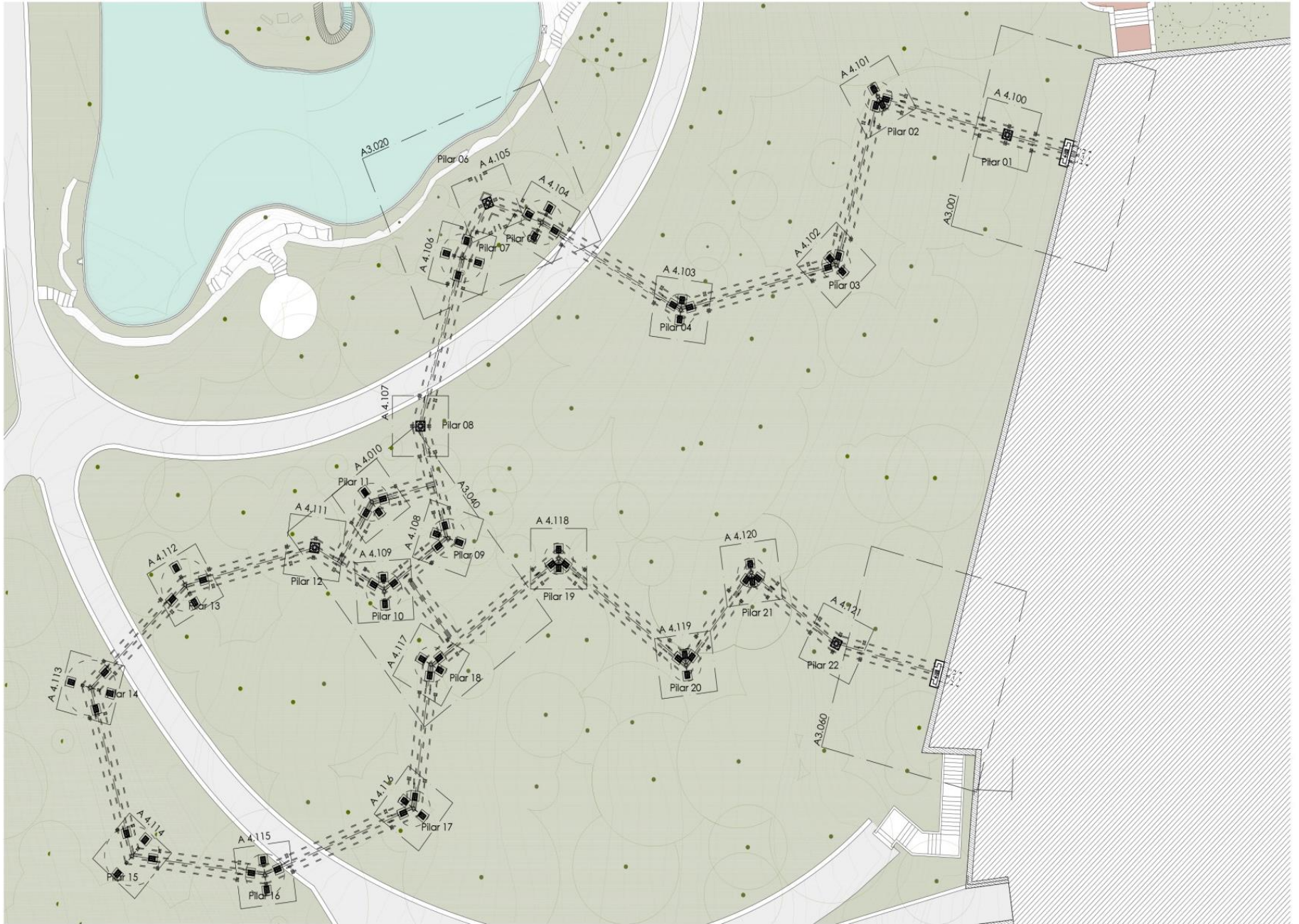


Treetop Walk Serralves | 2018 - 2019 | Porto, Portugal



PLANTA GERAL DE SERRALVES





PLANTA DE PILARES





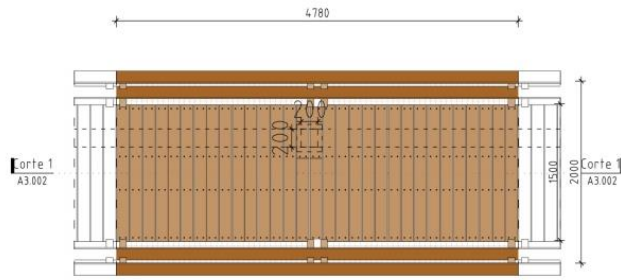
PLANTA DE ESTRUTURA



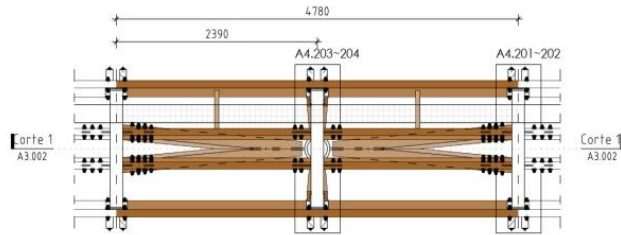


PLANTA

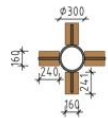




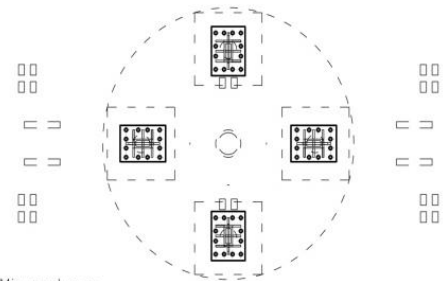
1 Planta Passadiço
1/75



2 Planta Estrutura
1/75

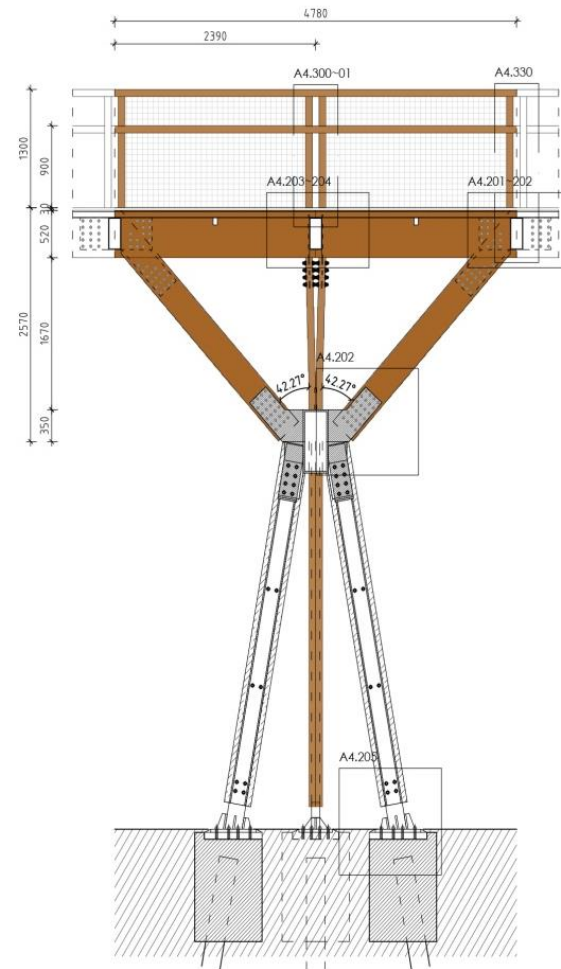


3 Corte Horizontal
1/75



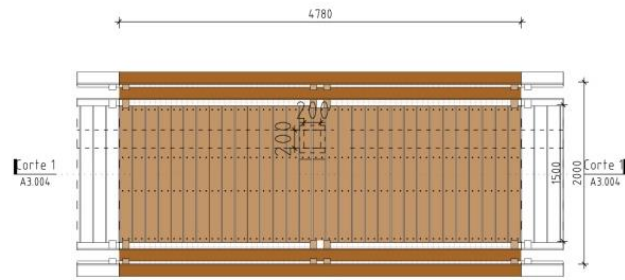
4 Planta Microestacas
1/75

FORMENORES - PILAR QUADRIFÉ TIPO S/SECÇÃO RECTA 1/2

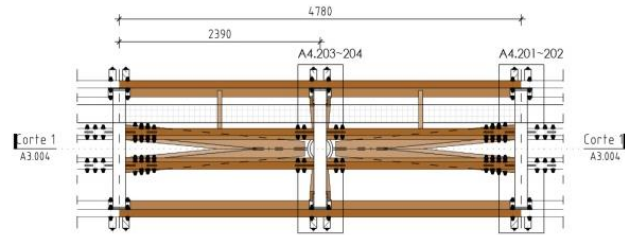


5 Corte Longitudinal
1/75





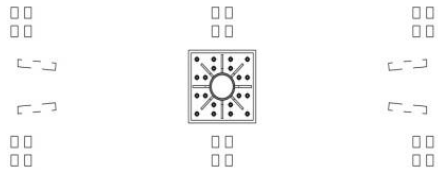
1 Planta Passadiço
1/75



2 Planta Estrutura
1/75

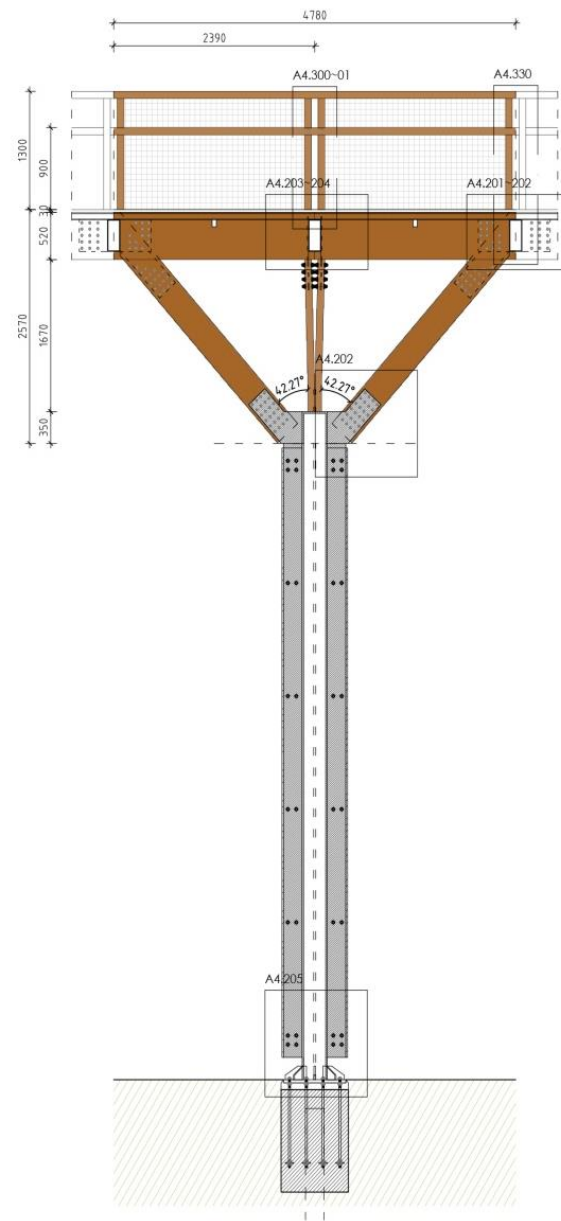


3 Planta Estrutura
1/75



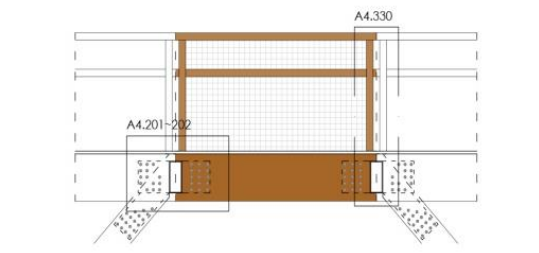
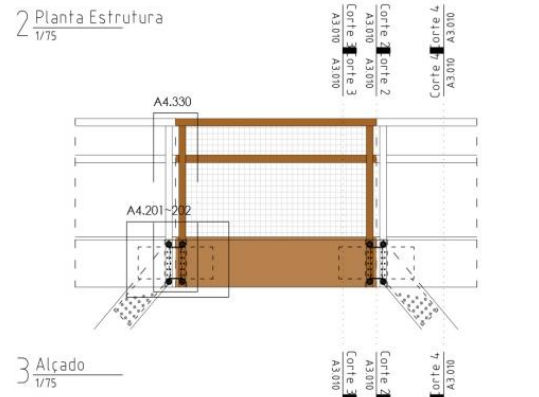
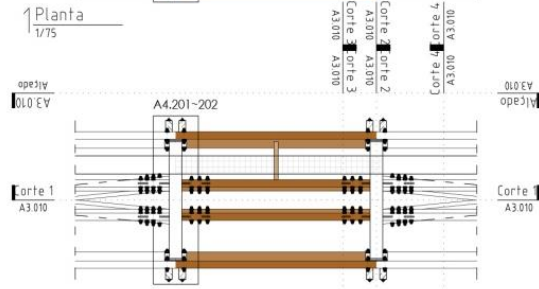
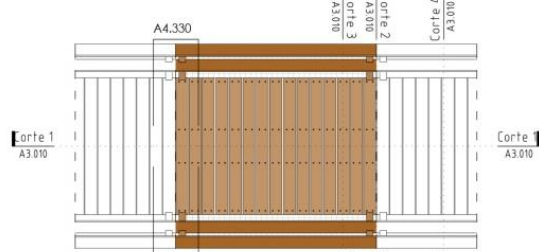
4 Planta Microestacas
1/75

FORMENORES - PILAR TIPO C/SECÇÃO RECTA 1/2



5 Corte Longitudinal
1/75

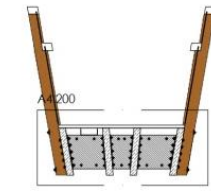
0 7.5m



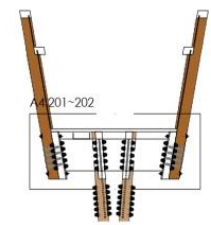
FORMENORES - MÓDULO RECTO 1 E CORTES TIPO



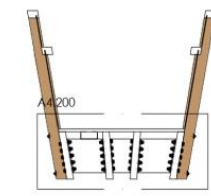
5 Corte 2
1/75



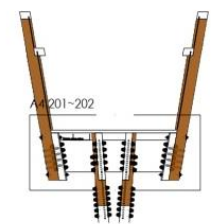
8 Corte 5
1/75



6 Corte 3
1/75

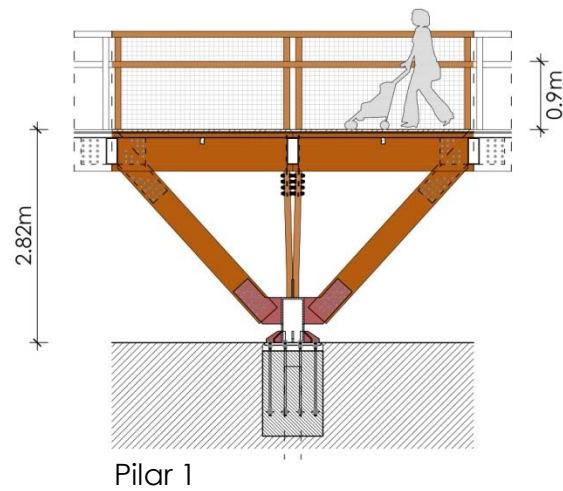


9 Corte 6
1/75

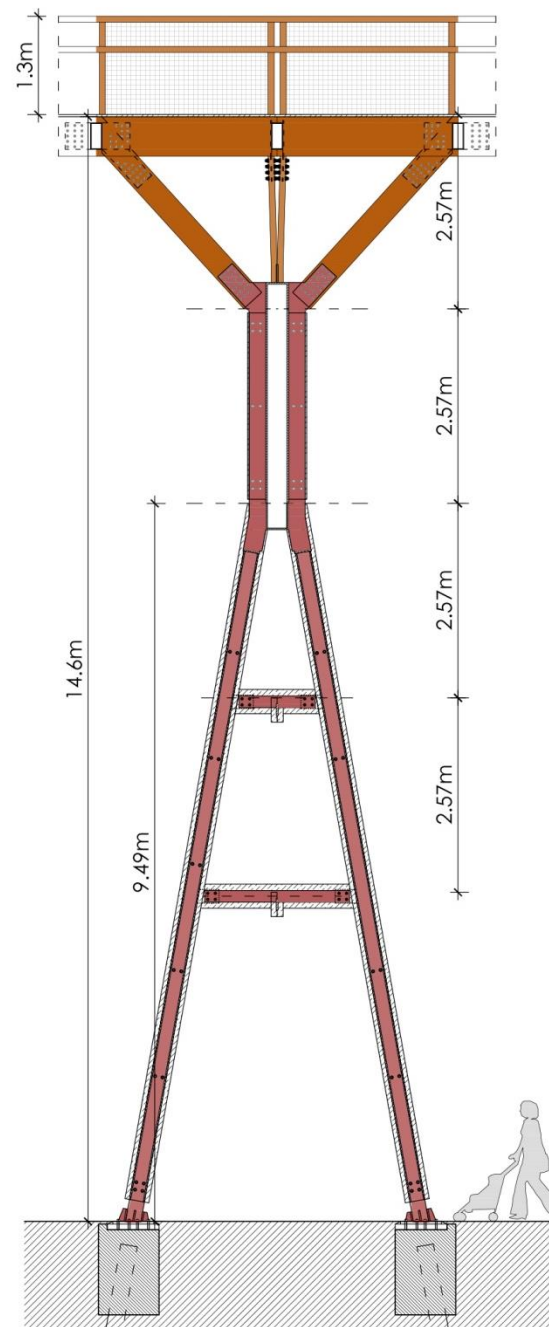


7 Corte 4
1/75

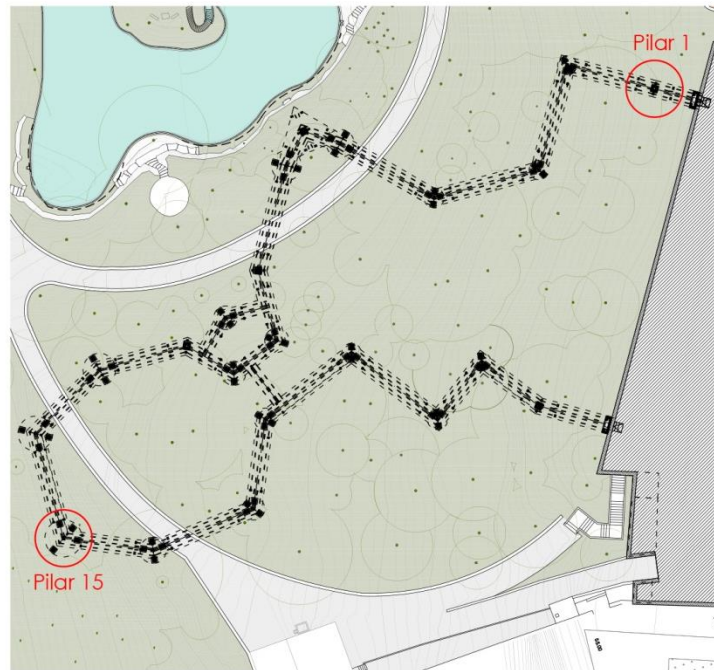


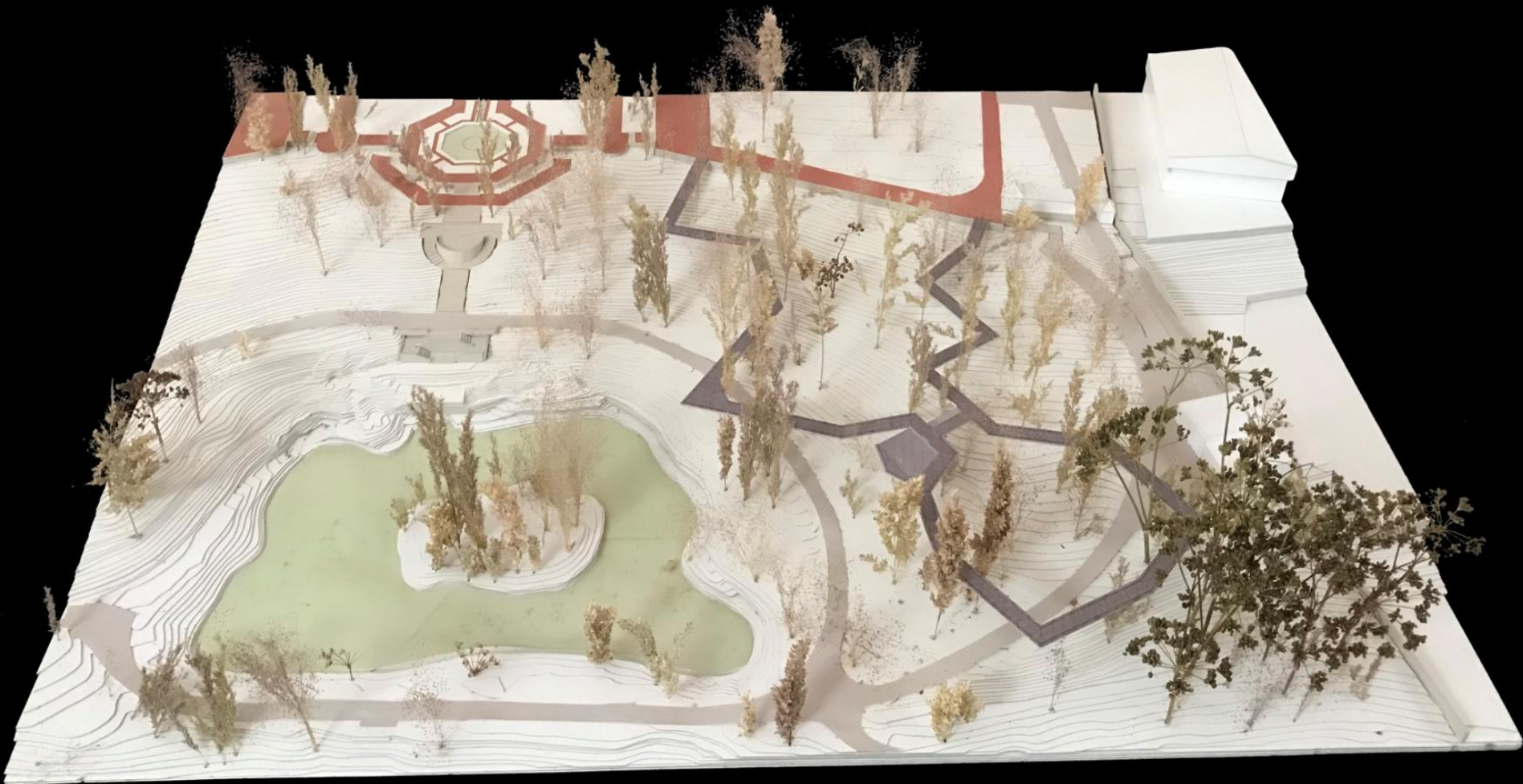


Pilar 1



Pilar 15





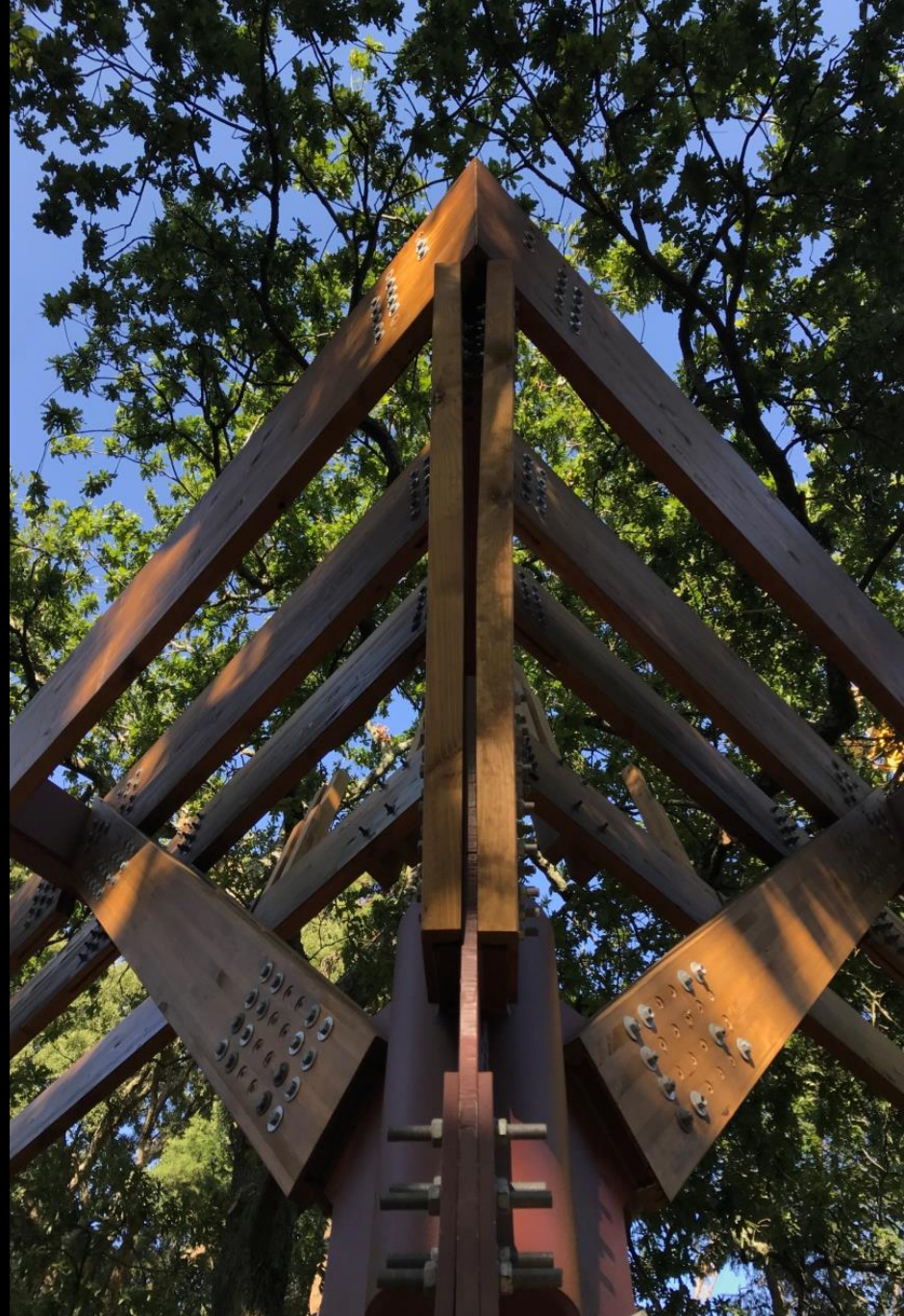








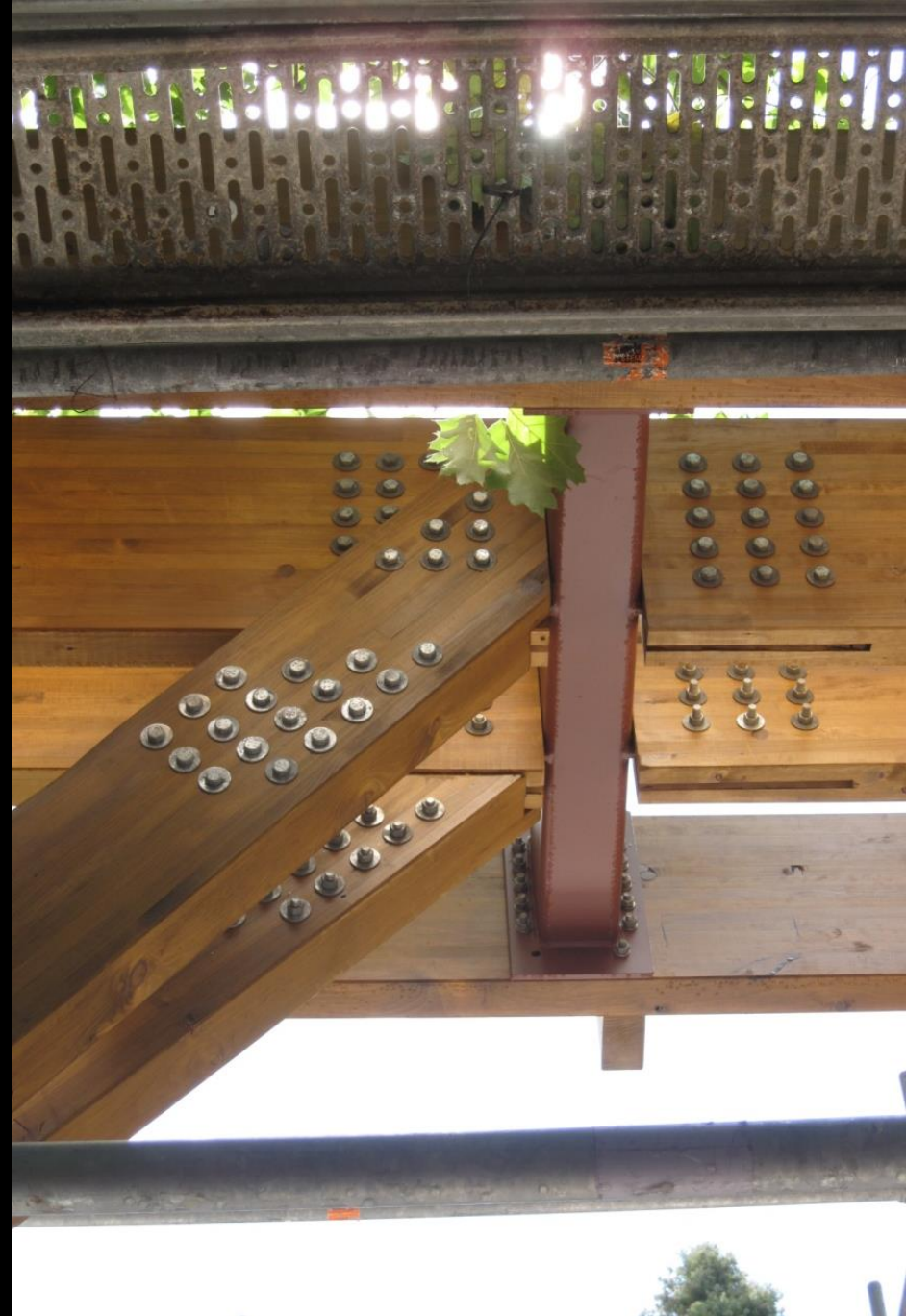








TOC TOC | TIMBER ARCHITECTURE IN FOCUS



Treetop Walk Serralves | 2018 - 2019 | Porto, Portugal





























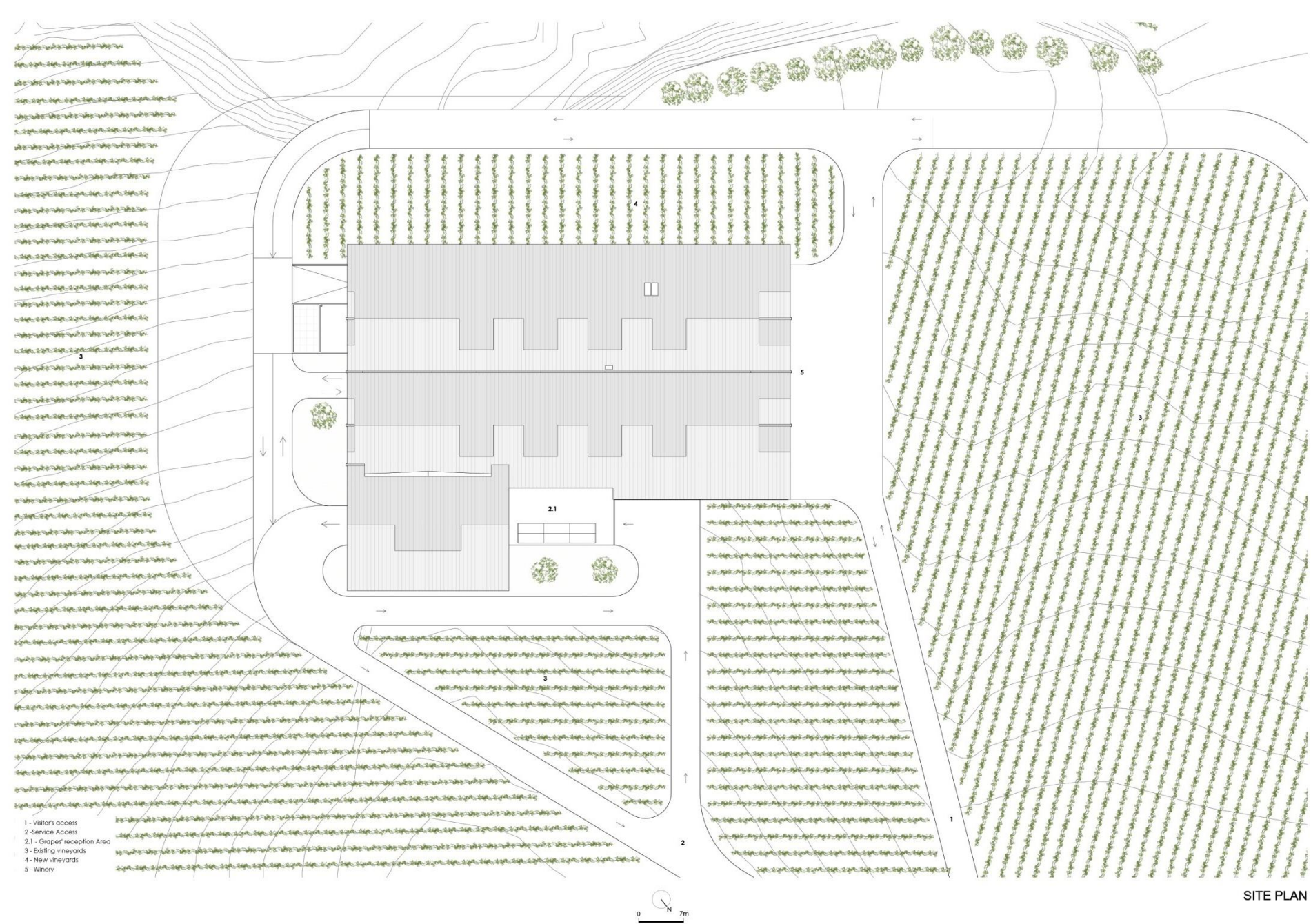




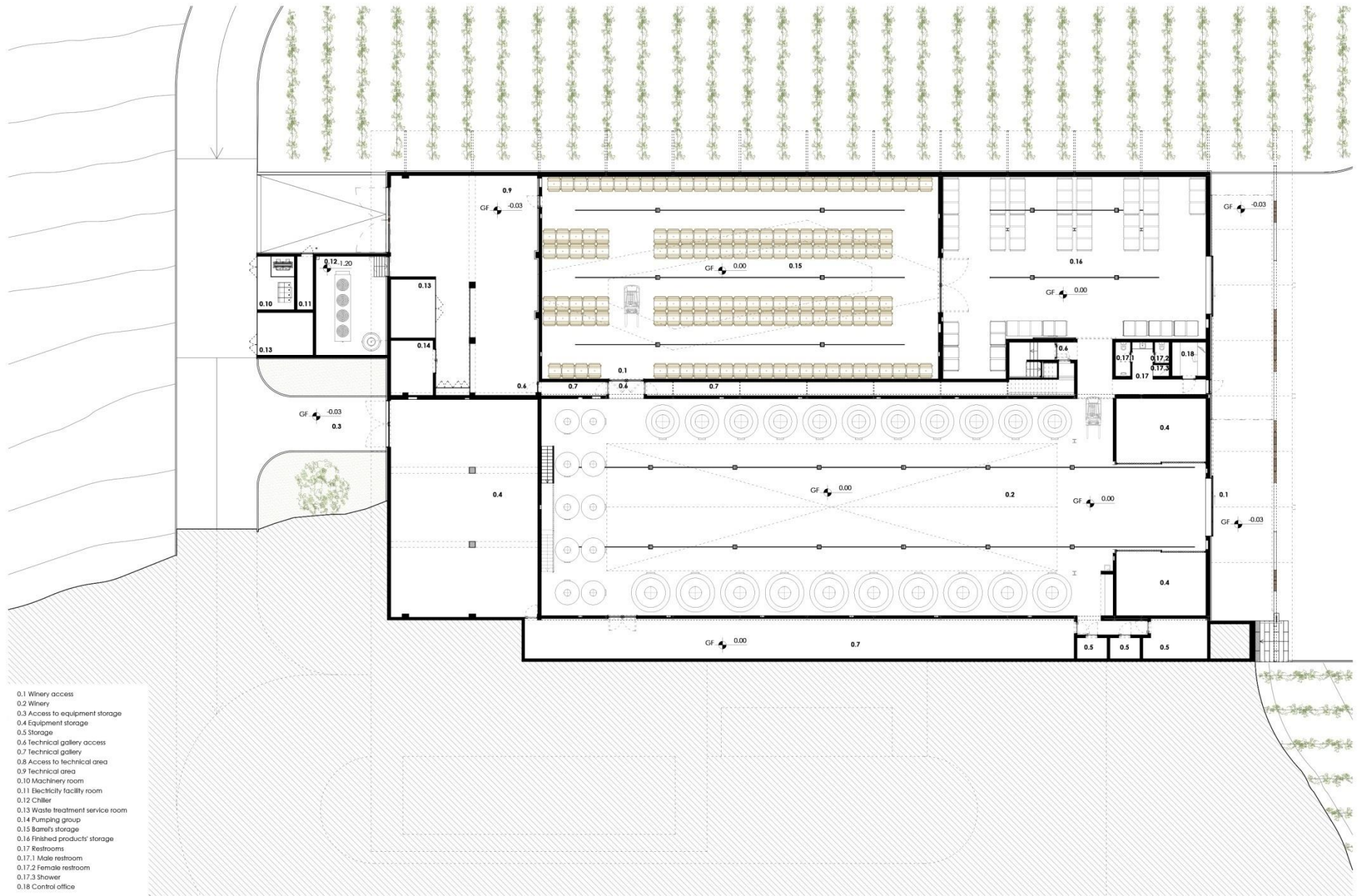


TABOADELLA WINERY
2018 – 2020 | Sátão, Portugal





SITE PLAN



- 0.1 Winery access
- 0.2 Winery
- 0.3 Access to equipment storage
- 0.4 Equipment storage
- 0.5 Storage
- 0.6 Technical gallery access
- 0.7 Technical gallery
- 0.8 Access to technical area
- 0.9 Technical area
- 0.10 Machinery room
- 0.11 Electricity facility room
- 0.12 Chiller
- 0.13 Waste treatment service room
- 0.14 Pumping group
- 0.15 Barrel's storage
- 0.16 Finished products' storage
- 0.17 Restrooms
- 0.17.1 Male restroom
- 0.17.2 Female restroom
- 0.17.3 Shower
- 0.18 Control office



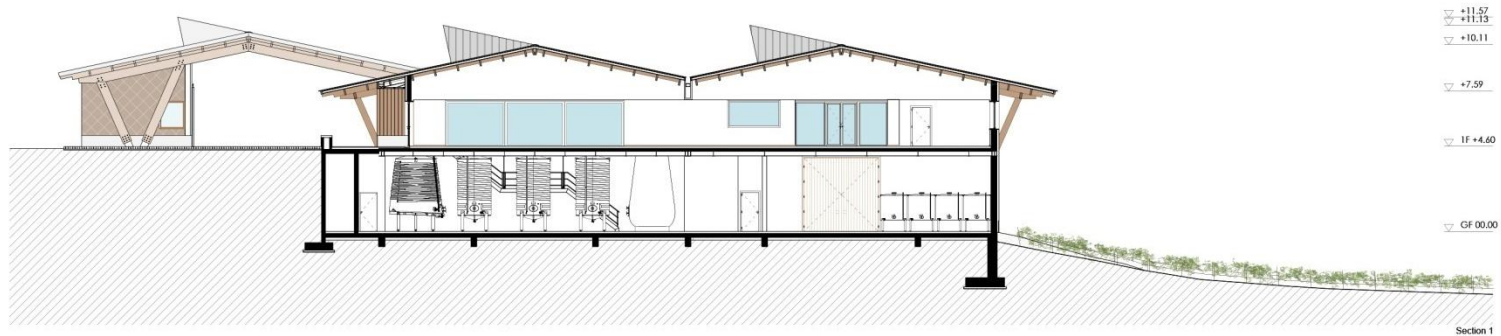
GROUND FLOOR PLAN



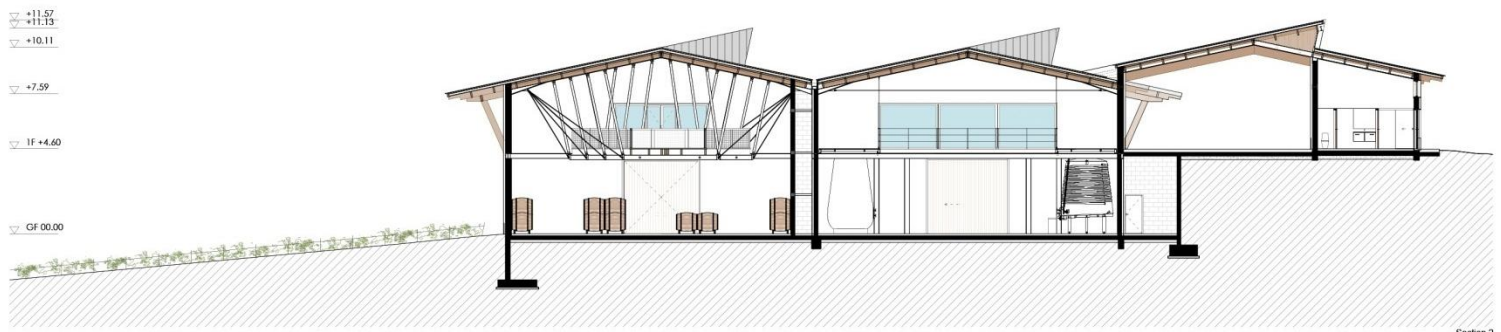
- 1.1 Public access
- 1.2 Reception
- 1.3 Restrooms
- 1.3.1 Service restroom
- 1.3.2 Female restroom
- 1.3.3 Disabled restroom
- 1.3.4 Male restroom
- 1.4 Wine cellar
- 1.5 Tasting room
- 1.6 Balcony
- 1.7 Laboratory
- 1.8 Administration office
- 1.9 Kitchen
- 1.10 Grapes' reception area
- 1.11 Technical area
- 1.12 Storage for harvest equipment
- 1.13 Waste deposit
- 1.14 Female changing room
- 1.15 Male changing room
- 1.16 Control office of the bascule bridge
- 1.17 Bascule bridge

1F FLOOR PLAN





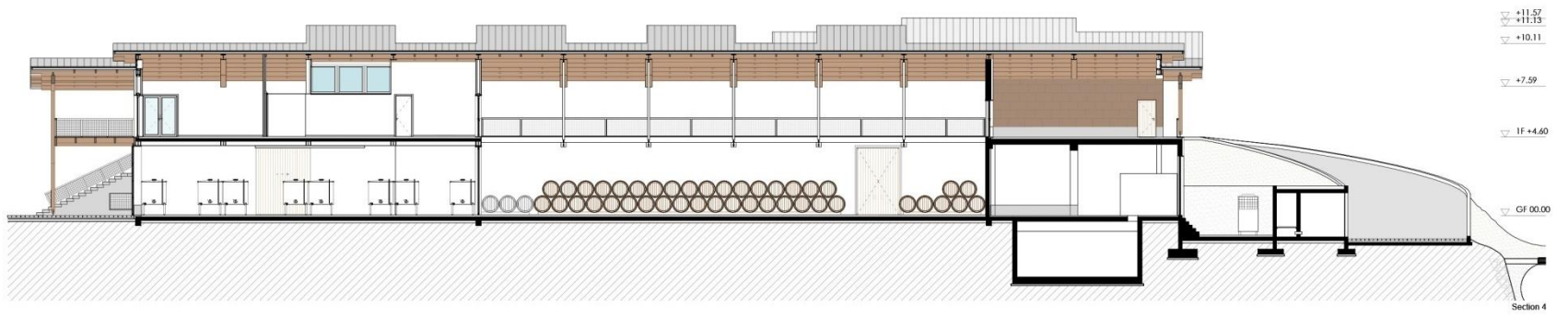
Section 1



Section 2

0 3.5m

ELEVATIONS AND SECTIONS



0 3.5m

ELEVATIONS AND SECTIONS











TOC TOC | TIMBER ARCHITECTURE IN FOCUS

Taboadella Winery | 2018 - 2020 | Sátão, Viseu, Portugal







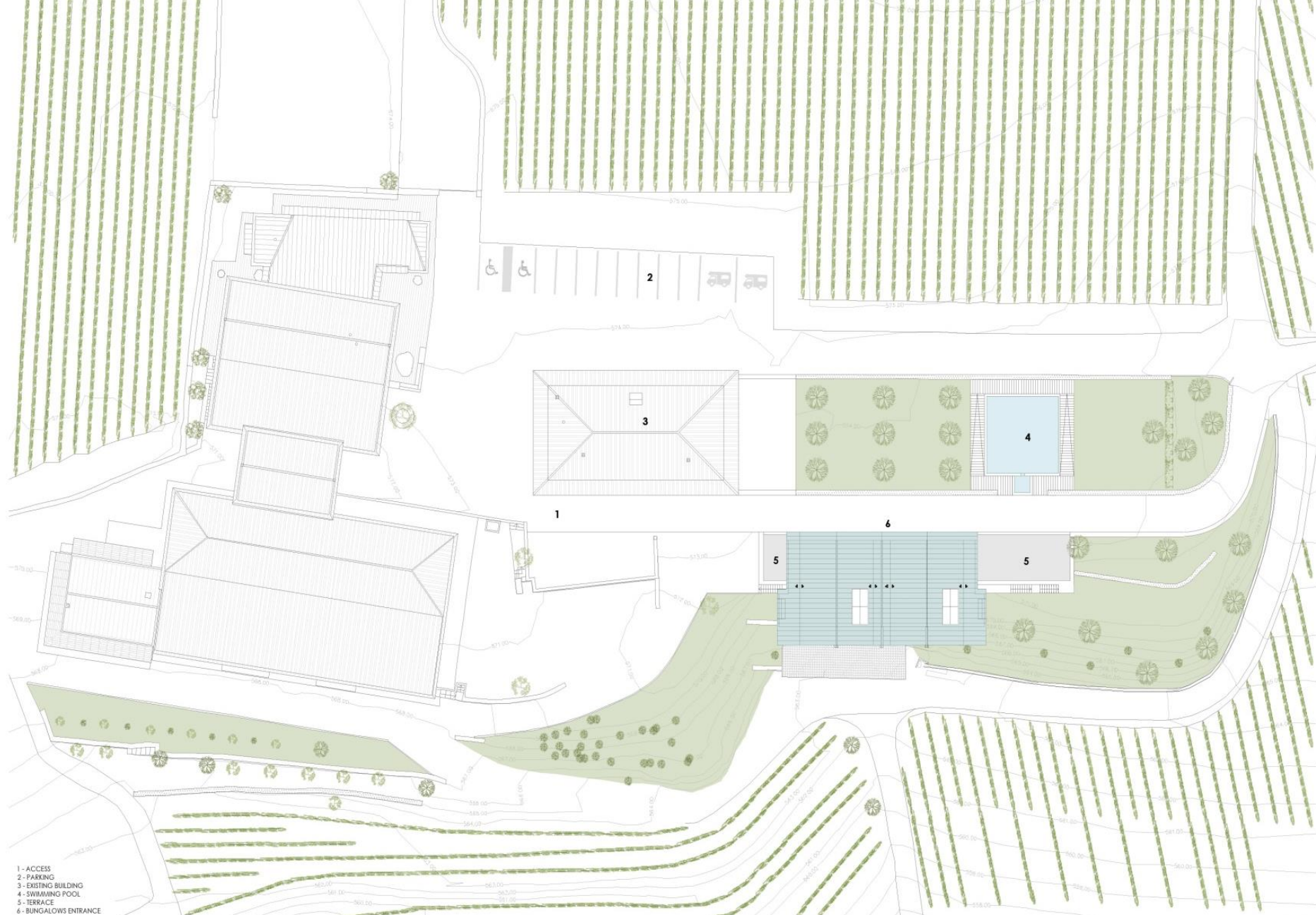




QUINTA DA FAÍSCA
WINERY AND TOURIST ACCOMODATION
2018 – 2019 | Porto, Portugal







- 1 - ACCESS
- 2 - PARKING
- 3 - EXISTING BUILDING
- 4 - SWIMMING POOL
- 5 - TERRACE
- 6 - BUNGALOWS ENTRANCE



SITE PLAN



ATELA QUINTA DA FAÍSCA













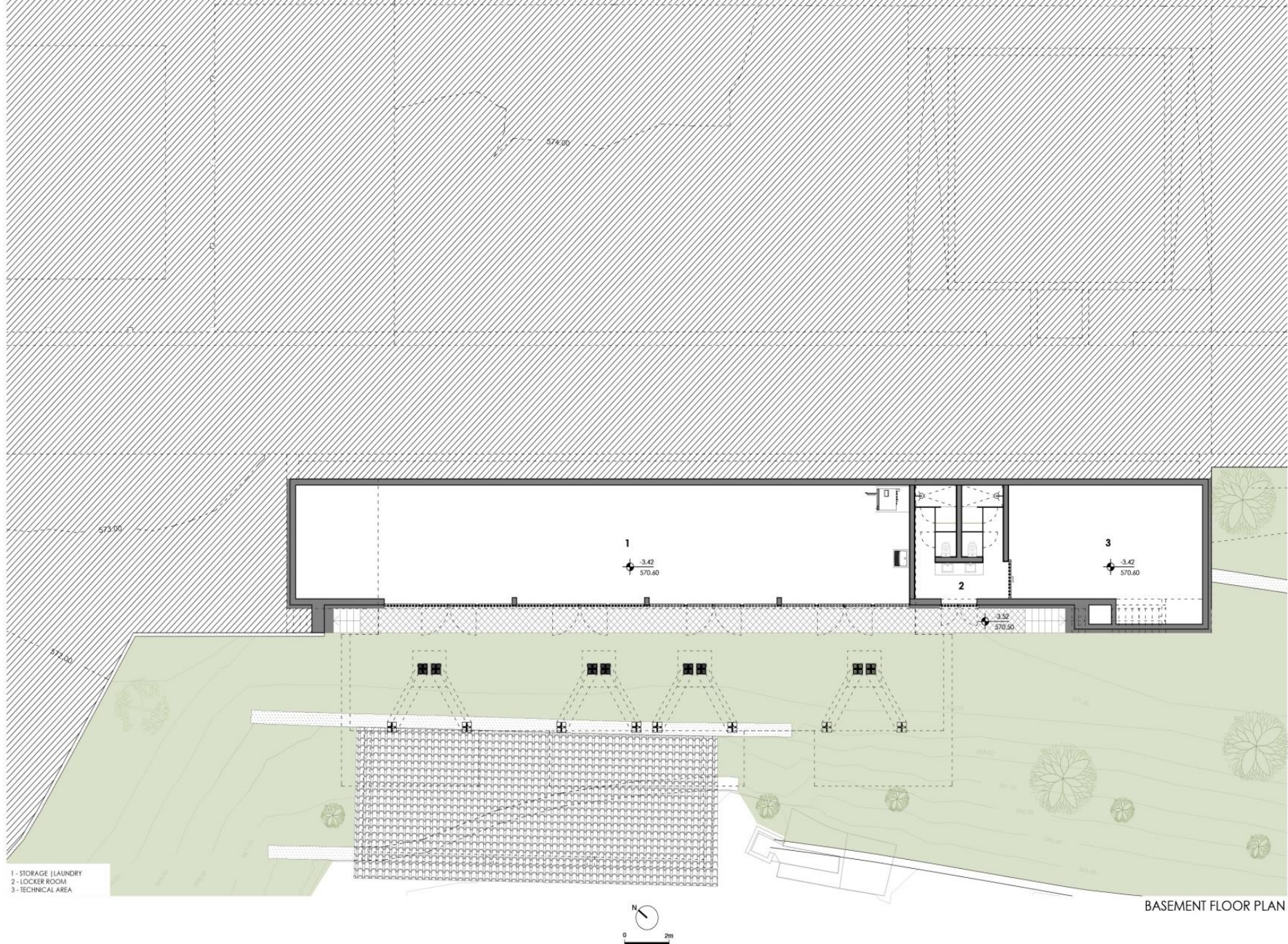


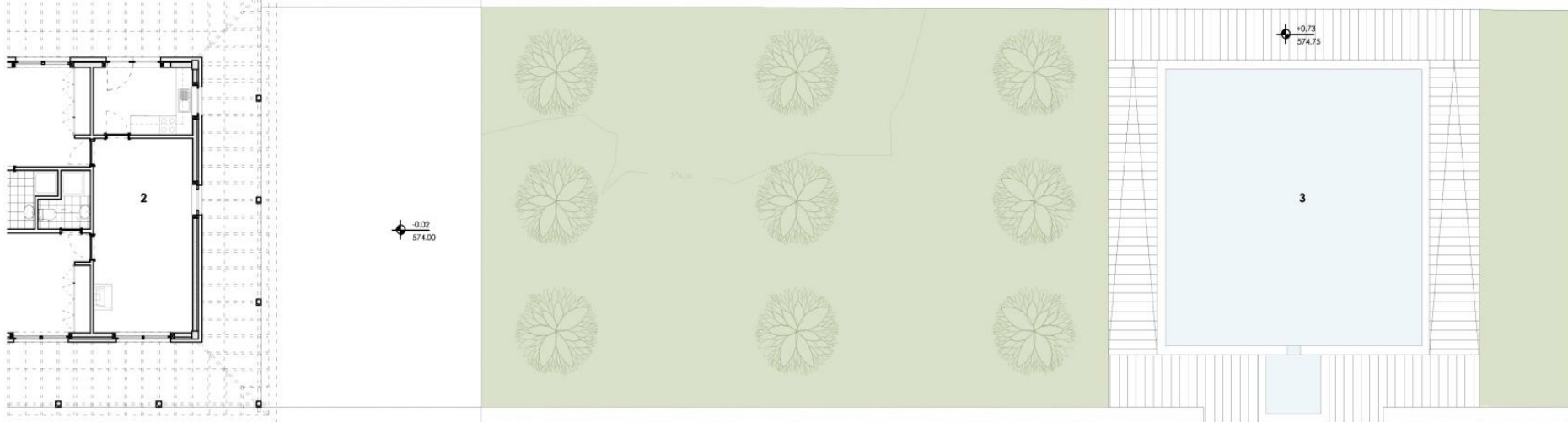


TOC TOC | TIMBER ARCHITECTURE IN FOCUS

Quinta da Faísca - Winery | 2008 - 2013 | Alijó, Portugal



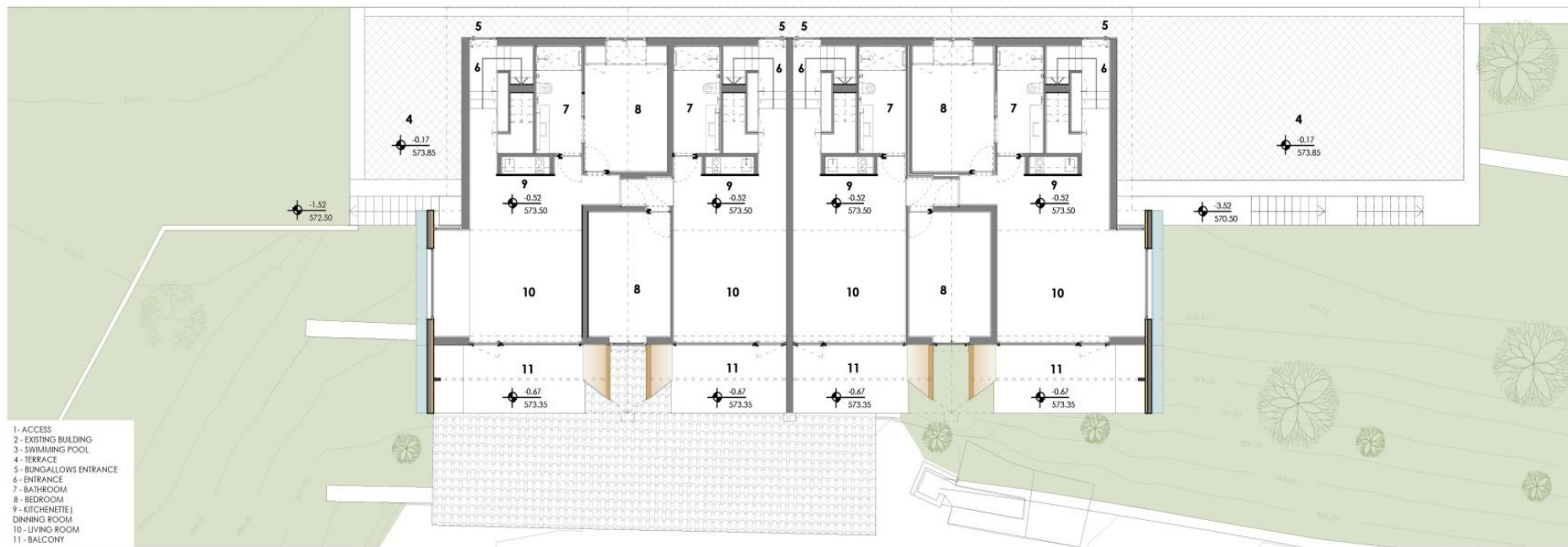




1

-0.27
573.75

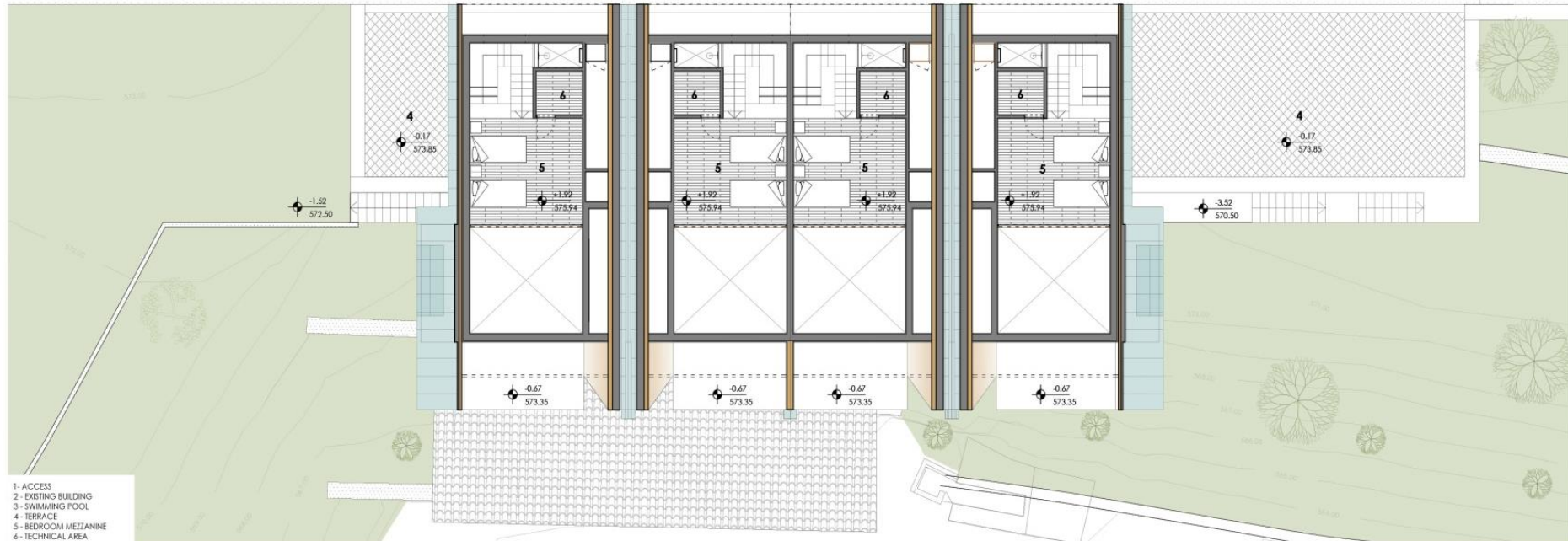
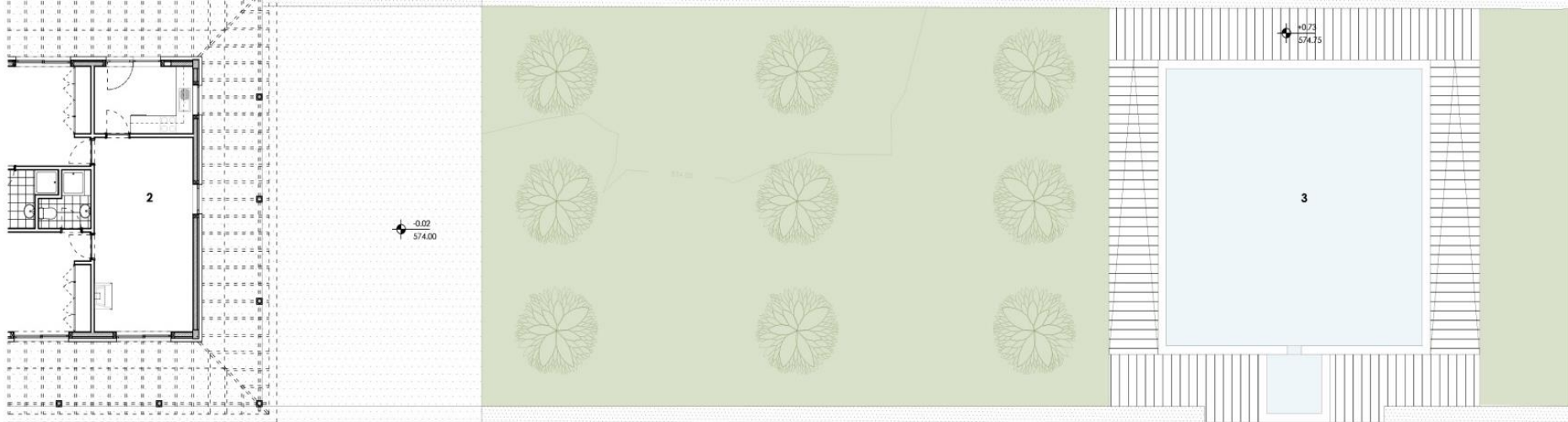
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- 1- ACCESS
- 2- EXISTING BUILDING
- 3- SWIMMING POOL
- 4- TERRACE
- 5- BUNGALOWS ENTRANCE
- 6- ENTRANCE
- 7- BATHROOM
- 8- BEDROOM
- 9- KITCHENETTE
- 10- DINNING ROOM
- 11- BALCONY



GROUND FLOOR PLAN



- 1- ACCESS
- 2- EXISTING BUILDING
- 3- SWIMMING POOL
- 4- TERRACE
- 5- BEDROOM MEZZANINE
- 6- TECHNICAL AREA



1F FLOOR PLAN































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ERMIDA HOUSE
2018 – 2022 | Cinfães, Portugal





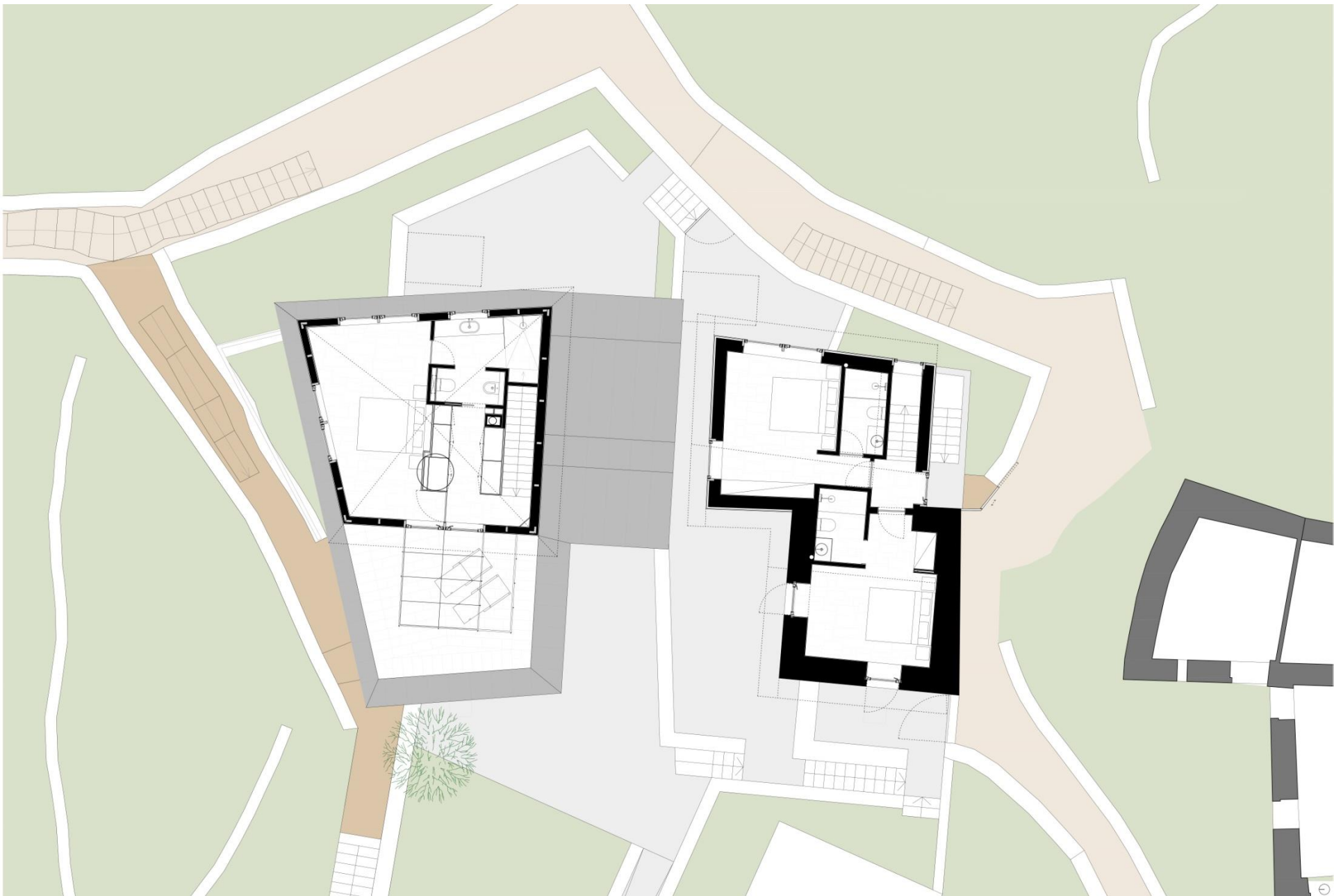




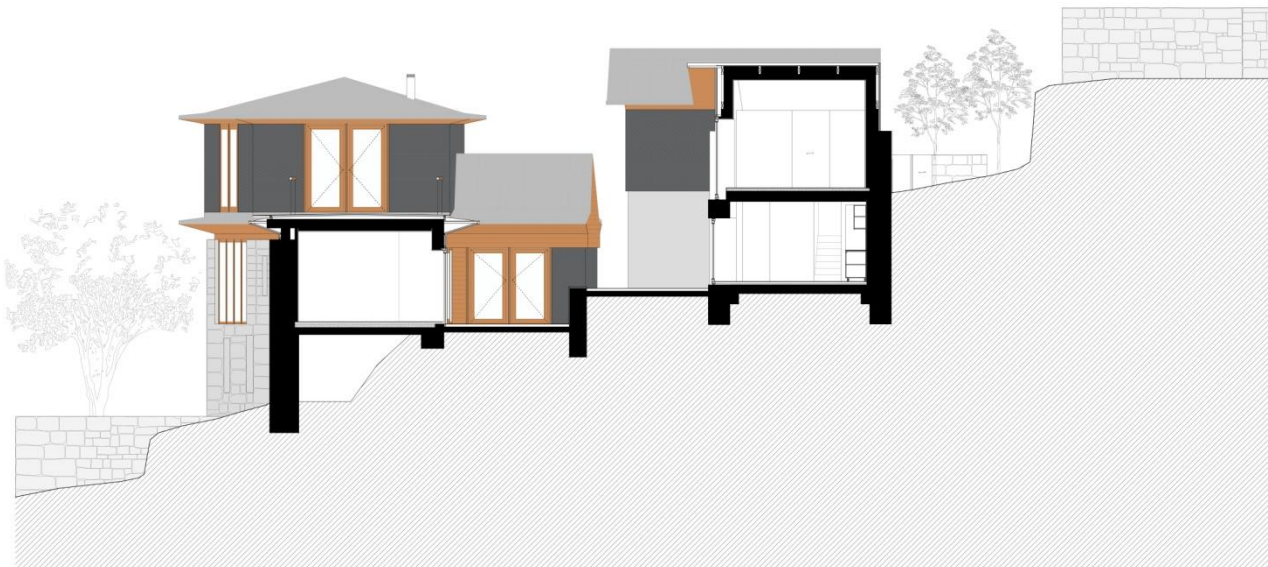


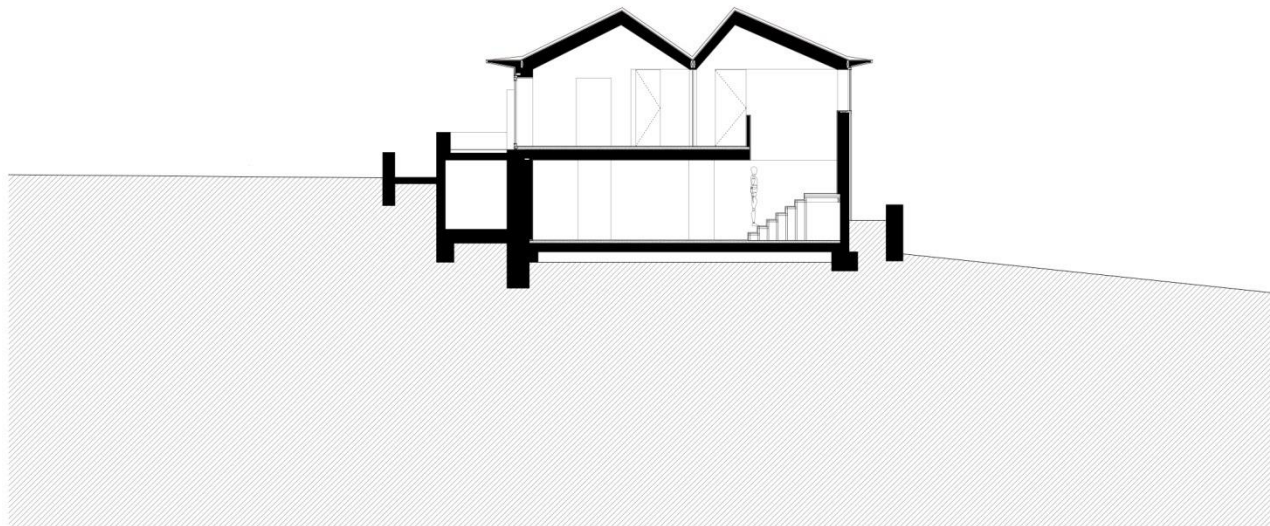
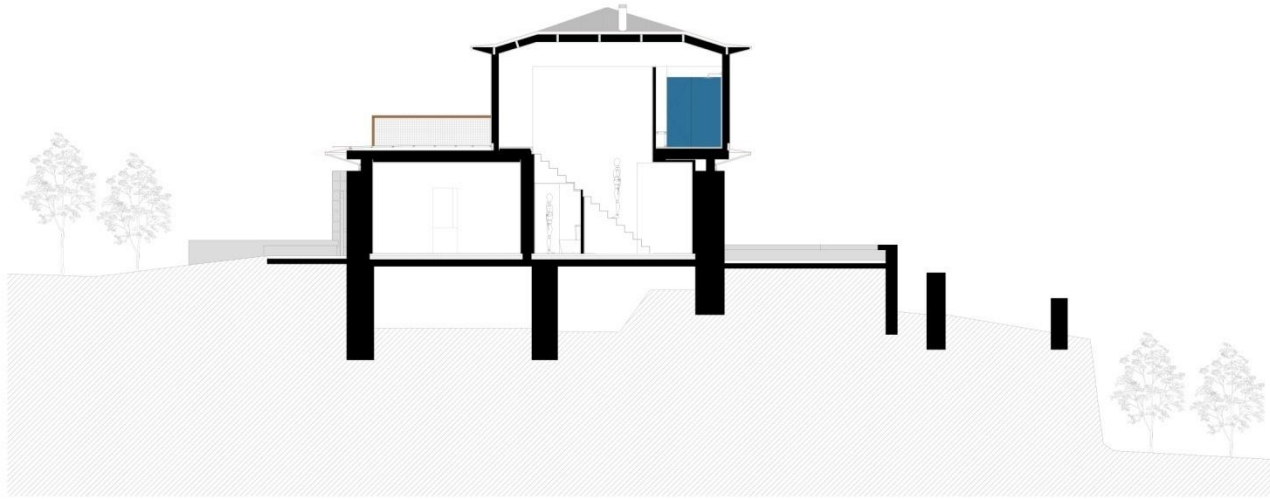


















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Thank you!