



# Project Drawings #7



## Deliverable #7 Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

Cover list

Content:

Scale: Date: 11/3/2014

Code: GE-001



# Sheet list

## GENERAL

GE-001.....Cover sheet  
GE-101.....Sheet List  
GE-102.....Sheet List.  
GE-301.....Urban Project Location  
GE-310.....Urban Proposal Explanation  
GE-311.....Urban Proposal Explanation  
GE-330.....Competition Dwelling  
GE-331.....Competition Dwelling  
GE-401.....Exterior Renderings  
GE-402.....Exterior Renderings  
GE-403.....Exterior Renderings  
GE-404.....Exterior Renderings

## ARCHITECTURAL

AR-001.....La Cité du Soleil® Plan  
AR-002.....Site Plan  
AR-011.....Solar Envelope  
AR-012.....Solar Envelope  
AR-014.....Architectural Footprint  
AR-017.....Measurable Area  
AR-021.....Floor Plan  
AR-031.....Roof Plan  
AR-041.....Reconfigurable features  
AR-042.....Reconfigurable features  
AR-043.....Reconfigurable features  
AR-051.....Measurable Area  
AR-101.....Site Elevation.  
AR-111.....Building Elevations  
AR-112.....Building Elevations  
AR-113.....Building Elevations  
AR-114.....Building Elevations  
AR-201.....Longitudinal Sections  
AR-202.....Longitudinal Sections  
AR-203.....Longitudinal Sections  
AR-211.....Transversal Sections  
AR-212.....Transversal Sections  
AR-213.....Transversal Sections  
AR-301.....Window Schedule and Details  
AR-302.....Window Schedule and Details  
AR-303.....Window Schedule and Details  
AR-304.....Window Schedule and Details  
AR-305.....Window Schedule and Details  
AR-306.....Window Schedule and Details  
AR-307.....Window Schedule and Details  
AR-308.....Window Schedule and Details  
AR-311.....Door Schedule and Details  
AR-312.....Door Schedule and Details  
AR-313.....Door Schedule and Details  
AR-314.....Door Schedule and Details  
AR-315.....Door Schedule and Details

AR-316.....Door Schedule and Details  
AR-317.....Door Schedule and Details  
AR-321.....Floor Construction Details  
AR-331.....Roof Construction Details  
AR-341.....Wall Sections and Construction  
AR-342.....Wall Sections and Construction  
AR-343.....Wall Sections and Construction  
AR-344.....Wall Sections and Construction  
AR-351.....Partitions Details  
AR-352.....Partitions Details  
AR-353.....Partitions Details  
AR-354.....Partitions Details  
AR-355.....Partitions Details  
AR-356.....Partitions Details  
AR-357.....Partitions Details  
AR-358.....Partitions Details  
AR-359.....Partitions Details  
AR-3510..Partitions Details  
AR-3511...Partitions Details  
AR-3512...Partitions Details

## BIOCLIMATIC

BA-001.....Local Climate Analysis  
BA-011.....Bioclimatic drawings

## INTERIORS

IN-001.....Floor  
IN-101.....Reflected ceiling  
IN-201.....Elevations  
IN-202.....Elevations  
IN-301.....Furnishings  
IN-302.....Furnishings  
IN-303.....Furnishings  
IN-304.....Furnishings  
IN-305.....Furnishings  
IN-306.....Furnishings  
IN-307.....Furnishings  
IN-308.....Furnishings  
IN-309.....Furnishings  
IN-3010.....Furnishings  
IN-401.....Kitchen Plan  
IN-402.....Kitchen Plan  
IN-411.....Kitchen Elevations  
IN-412.....Kitchen Elevations  
IN-413.....Kitchen Elevations  
IN-414.....Kitchen Elevations  
IN-415.....Kitchen Elevations  
IN-416.....Kitchen Elevations  
IN-417.....Kitchen Elevations

IN-418.....Kitchen Elevations  
IN-419.....Kitchen Elevations  
IN-501.....Bathroom plan  
IN-511.....Bathroom Elevations  
IN-601.....Interior Renderings  
IN-602.....Interior Renderings  
IN-603.....Interior Renderings  
IN-604.....Interior Renderings

## STRUCTURAL

ST-001.....Foundation Plan  
ST-002.....Foundation Plan and Floor Rafter  
ST-002.....Foundation Plan and Floor Rafter  
ST-011.....Structural Floor Plan  
ST-012.....Structural Floor Plan  
ST-013.....Structural Floor Plan  
ST-021.....Structural Roof Plan  
ST-022.....Structural Roof Plan  
ST-023.....Structural Roof Plan  
ST-024.....Structural Roof Plan  
ST-101.....Structural Longitudinal Sections  
ST-102.....Structural Longitudinal Sections  
ST-103.....Structural Longitudinal Sections  
ST-111.....Structural Transversal Sections  
ST-112.....Structural Transversal Sections  
ST-113.....Structural Transversal Sections  
ST-301.....Structural Details  
ST-302.....Structural Details  
ST-303.....Structural Details  
ST-304.....Structural Details  
ST-305.....Structural Details  
ST-306.....Structural Details  
ST-307.....Structural Details  
ST-308.....Structural Details  
ST-309.....Structural Details  
ST-310.....Structural Details  
ST-311.....Structural Details  
ST-312.....Structural Details  
ST-313.....Structural Details  
ST-314.....Structural Details  
ST-315.....Structural Details  
ST-316.....Structural Details  
ST-317.....Structural Details

## FIRE PROTECTION

FP-001.....Fire Protection



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Sheet list

Content: -Sheet list.

Scale: Date: 11/3/2014

Code: GE-101

# Sheet list

## PLUMBING

PL-001 Plumbing Plan. Supply and removal (cold and hot water)  
PL-011.....Greywater  
PL-021.....Drain / Waste / Vent  
PL-022.....Drain / Waste / Vent  
PL-201.....Supply and removal Isometric (cold and hot water)  
PL-201b.....Supply and removal Isometric (cold and hot water)  
PL-211.....Greywater Isometric  
PL-221.....Drain/Waste/Vent Isometric  
PL-231.....Rain water Isometric

## SOLAR WATER HEATING

SW-001.....Plan  
SW-101.....Isometric

## MECHANICAL

ME-001 HVAC distribution Plan  
ME-101.....Mechanical room elevations  
ME-201.....HVAC System Schematic drawings  
ME-301.....Isometric Distribution  
ME-301b.....Isometric Distribution

## ELECTRICAL

EL-001.....Grid interconnection  
EL-002.....Grid interconnection  
EL-201 DC wiring diagram  
EL-301.....Power plan  
EL-302.....Power plan  
EL-401.....Lighting plan  
EL-402.....Lighting plan  
EL-501.....One-line Diagram  
EL-502.....One-line Diagram  
EL-601.....AC Circuit layout  
EL-602.....AC Circuit layout  
EL-603.....AC Circuit layout  
EL-604.....AC Circuit layout  
EL-605.....AC Circuit layout

## PHOTOVOLTAIC SYSTEM

PV-001.....Photovoltaic system: general  
PV-002.....Photovoltaic system: general  
PV-003.....Photovoltaic system: general  
PV-004.....Photovoltaic system: general

PV-011.....Photovoltaic system: DC circuits  
PV-012.....Photovoltaic system: DC circuits  
PV-021.....Photovoltaic system: AC circuits  
PV-022.....Photovoltaic system: AC circuits  
PV-031.....Photovoltaic system: grounding system  
PV-032.....Photovoltaic system: grounding system

## SDE INSTRUMENTATION DRAWINGS

ID-001.....General Monitoring  
ID-002.....Monitoring panel room  
ID-003.....Electricity meters topology  
ID-004.....Electricity meters connection  
ID-005.....House appliances  
ID-006.....House appliances

## TELECOMMUNICATIONS AND BUILDING AUTOMATIZATION SYSTEM

BAS-001.....Wiring plan  
BAS-101.....Schematic diagram  
BAS-102.....Schematic diagram  
BAS-103.....Schematic diagram

## SDE INSTRUMENTATION DRAWINGS

ID-001.....General Monitoring  
ID-002.....Monitoring panel room  
ID-003.....Electricity meters topology  
ID-004.....Electricity meters connection  
ID-005.....House appliances  
ID-006.....House appliances

## SITE OPERATIONS

SO-001.....Trucks shipment  
SO-101.....La Cité du Soleil®  
SO-102.....Lot plan  
SO-201.....Phases  
SO-202.....Phases  
SO-203.....Phases  
SO-204.....Phases  
SO-205.....Phases  
SO-206.....Phases  
SO-207.....Phases  
SO-208.....Phases  
SO-209.....Phases  
SO-210.....Phases  
SO-211.....Phases  
SO-212.....Phases  
SO-213.....Phases

SO-214.....Phases

## HEALTH AND SAFETY

HS-401.....Health and Safety during assembly / maintenance / disassembly  
HS-402.....Health and Safety during assembly / maintenance / disassembly  
HS-403.....Health and Safety during assembly / maintenance / disassembly  
HS-404.....Health and Safety during assembly / maintenance / disassembly  
HS-405.....Health and Safety during assembly / maintenance / disassembly  
HS-406.....Health and Safety during assembly / maintenance / disassembly  
HS-407.....Health and Safety during assembly / maintenance / disassembly  
HS-408.....Health and Safety during assembly / maintenance / disassembly  
HS-409.....Health and Safety during assembly / maintenance / disassembly

## PUBLIC TOUR

PT-001.....Site accessibility  
PT-101.....House tour floor plan  
PT-201.....House Tour General Information



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Content: -Sheet list.

Scale:

Date: 11/3/2014

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GE-102



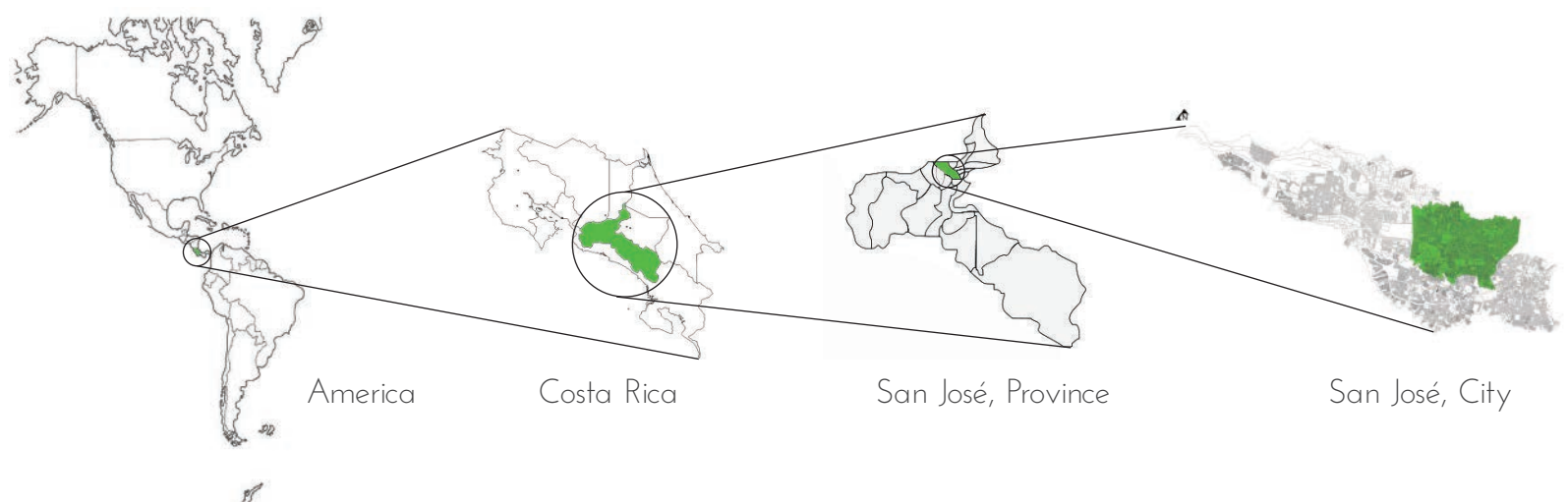
Costa Rica is a small country located en Central America. San José, its capital, is the heart of the nation and concentrate the social, economic, religios and cultural activities.

In the past decades, population the live in this city started to migrate to the suburbs, letting it completely abandoned at night.

San José have potential to be a great capital, but needs people who take care of it, and no one love more a place then when they live in it.

That is why Tec-Team is developing an urban i ntervention for San José starting with a housing proposal.

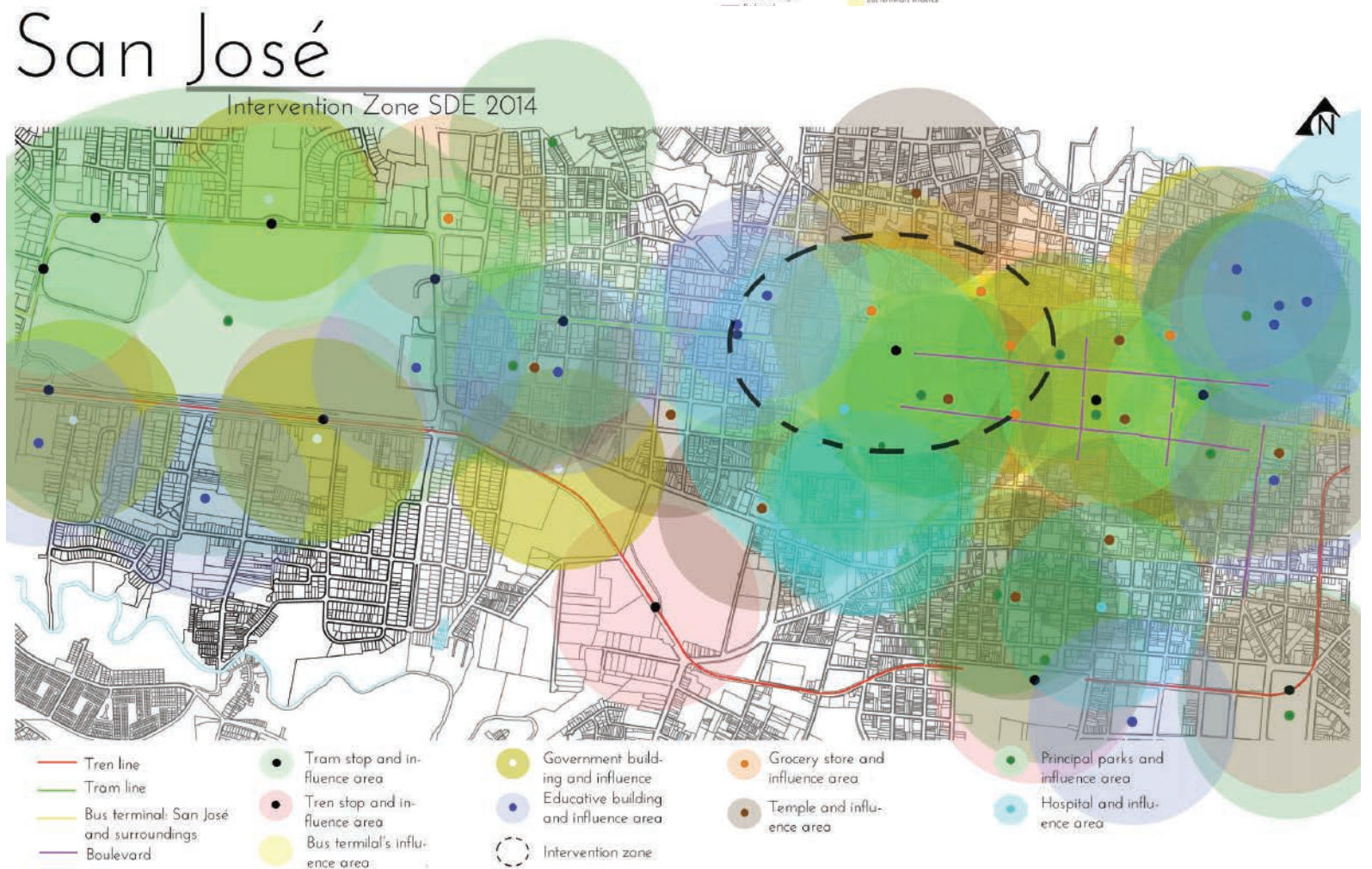
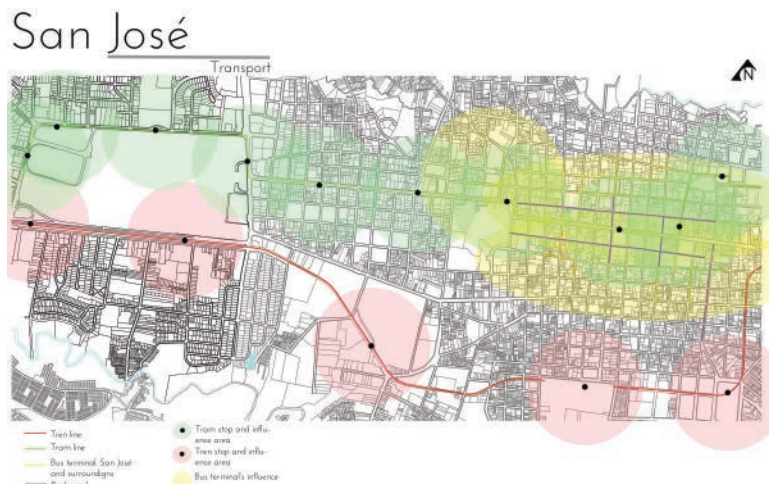
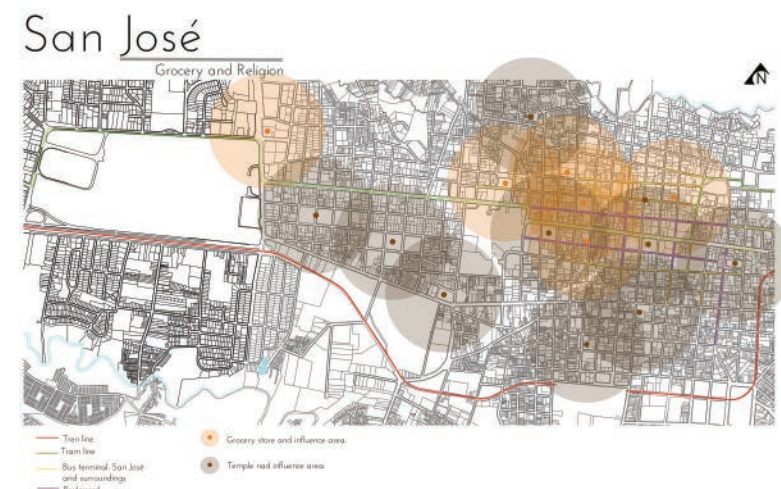
To determinate the right location, we made an analysis of the ubication of the different services that our city offers and selected La Merced district as the intervention zone for the Solar Decathlon Europe 2014.



**Solar  
Decathlon  
Europe**

**TEC TEAM**

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Sheet title	
Urban Project Location	
Content: -Global localization -Urban analysis	
Scale: None	Date: 11/3/2014
Code:	GE-301





Trópika is a housing project located in San José, the capital city of Costa Rica.

Trópika is also part of a master plan that looks for the revitalization of a forgotten part of the city that has all the components to be an important social center.

Our proposal is design for the senior citizen, reason why the urban intervention not only pretend to reactivate the zone, but also adjust urban conditions to users needs.

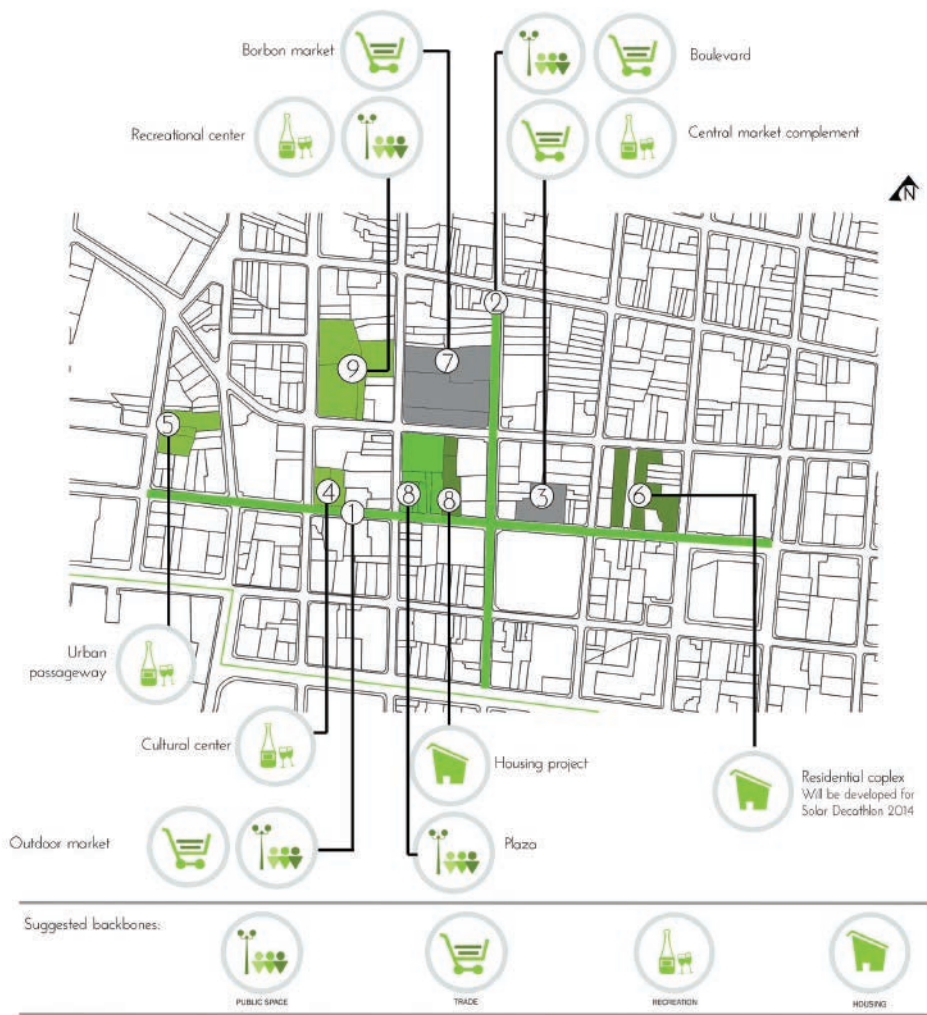
One of the principles of our project is to integrate ourselves with the context and bring new solutions of trade, recreation and housing places. To fulfill that goal, our project shows an opening that connects people with the urban activity and promote social harmony .

Trópika seeks to create a “barrio” (neighborhood), where tenants and the city mix to create a companionship and take care of each other.

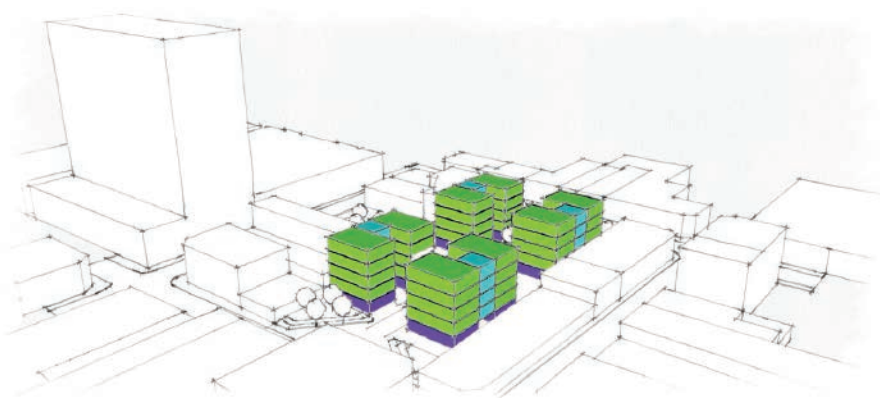
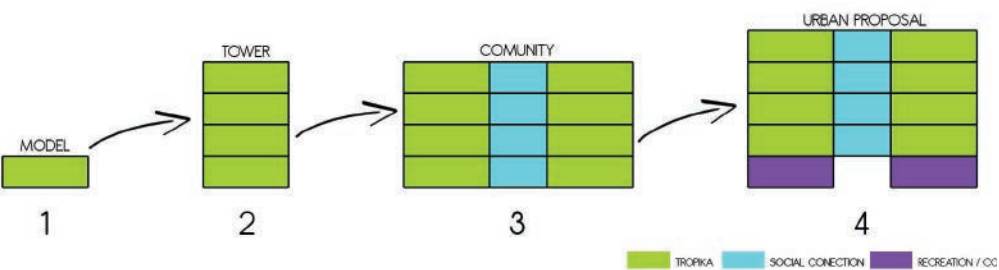
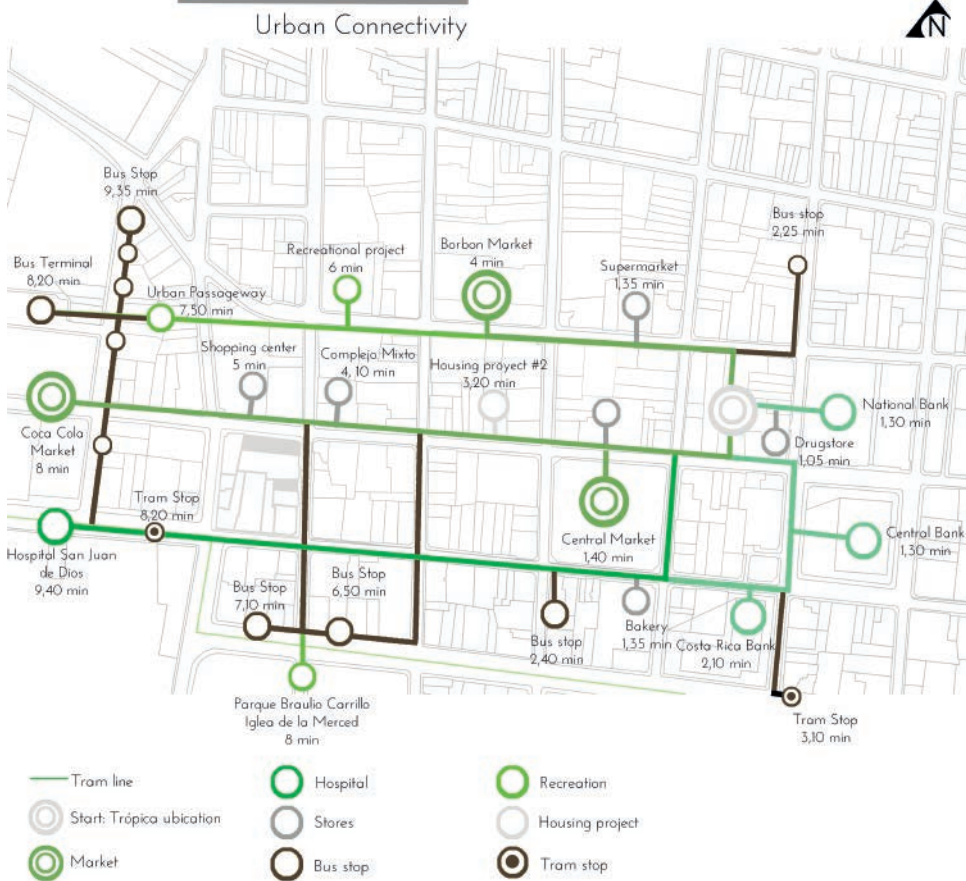
Trópika is a living module that present the flexibility of be constructed in an independent way, such as a house, or it can gather with other modules in order to make a vertical housing option

The housing complex that Tec Team is working for the Solar Decathlon Europe 2014, consist in mini-towers of medium height that propitiate social sharing by the generation of public and common spaces in Pasaje Jiménez, a place that once was an important trade center but that is totally abandoned.

This mini-tower have been designed as an option to bring density to the capital and show to the developers that we can use our architectural tradition to create modern and sustainable buildings that go hand to hand with technology.



## San José



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Sheet title

Urban Proposal Explanation

Content: -Action plan  
-Urban connectivity  
-Building diagrams

Scale: None Date: 11/3/2014

Code: GE-310



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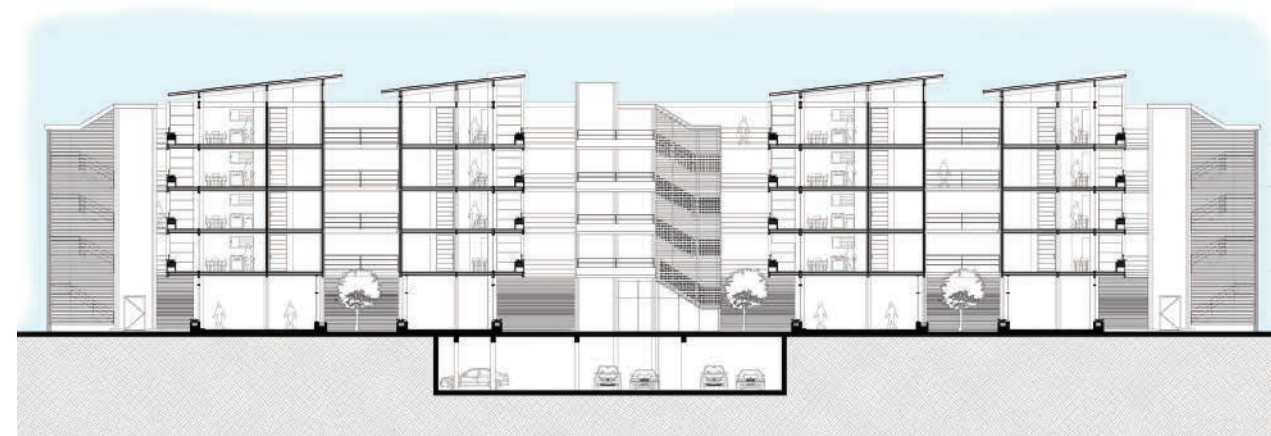
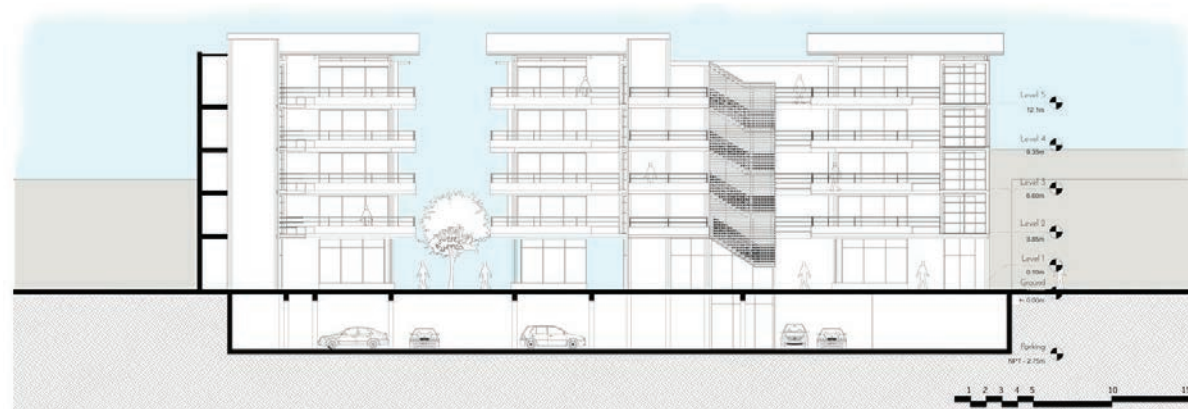
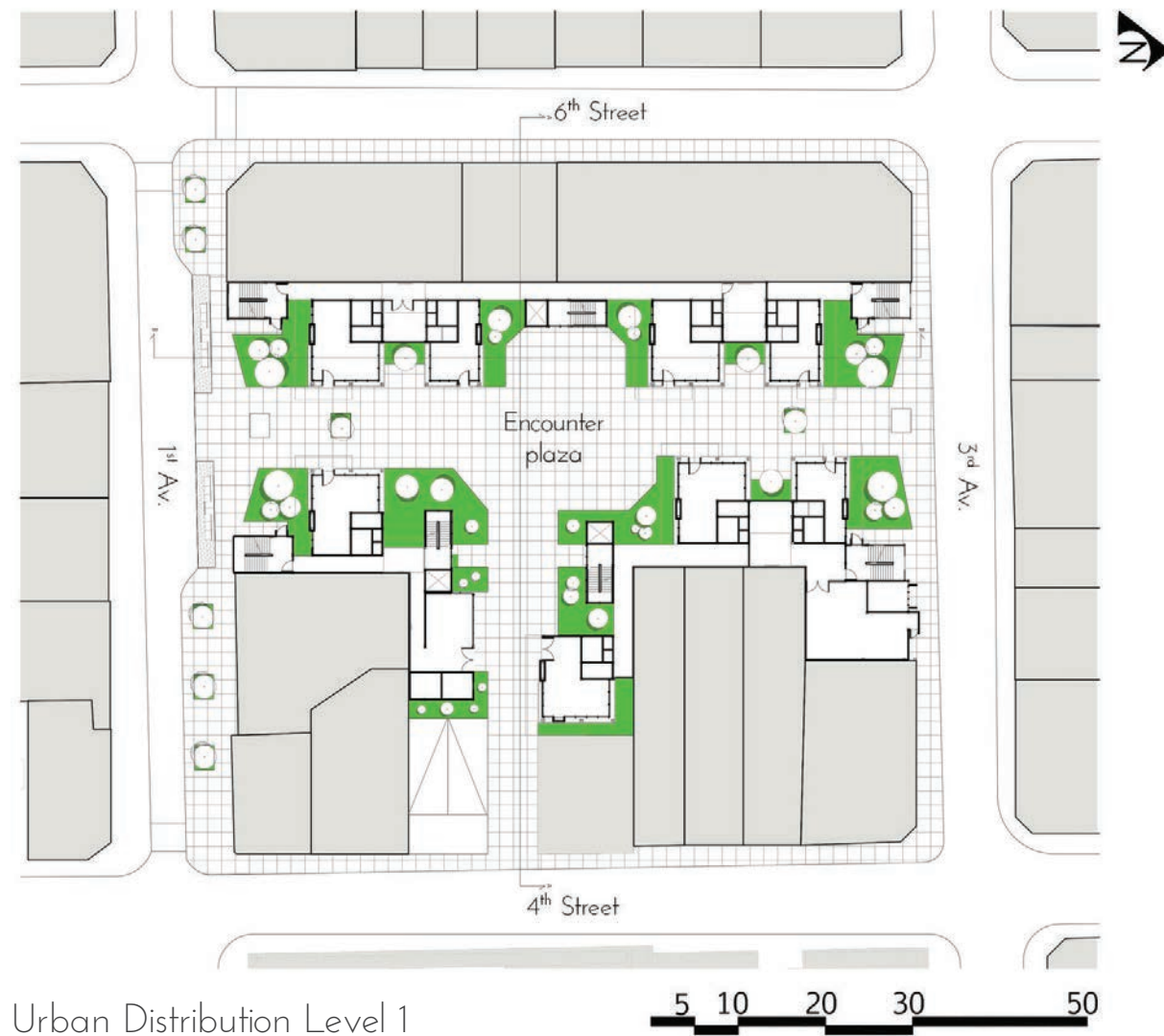
Urban Proposal Explanation

Content: -Complex floor plants  
-Urban sections

Scale: None

Date: 11/3/2014

Code: **GE-311**





Trópika is a versatile module that can be constructd individually as a house, or gruped to make towers.

For the competition in Versailles, Tec-Team took the 55.5 m<sup>2</sup> apartment and a lobby located at the last floor of the mini-tower to creat the living prototype.

In adition, we designed a green tunnel as the main entrance of the module to simulate that tropical enviornment that we have in our coun try.



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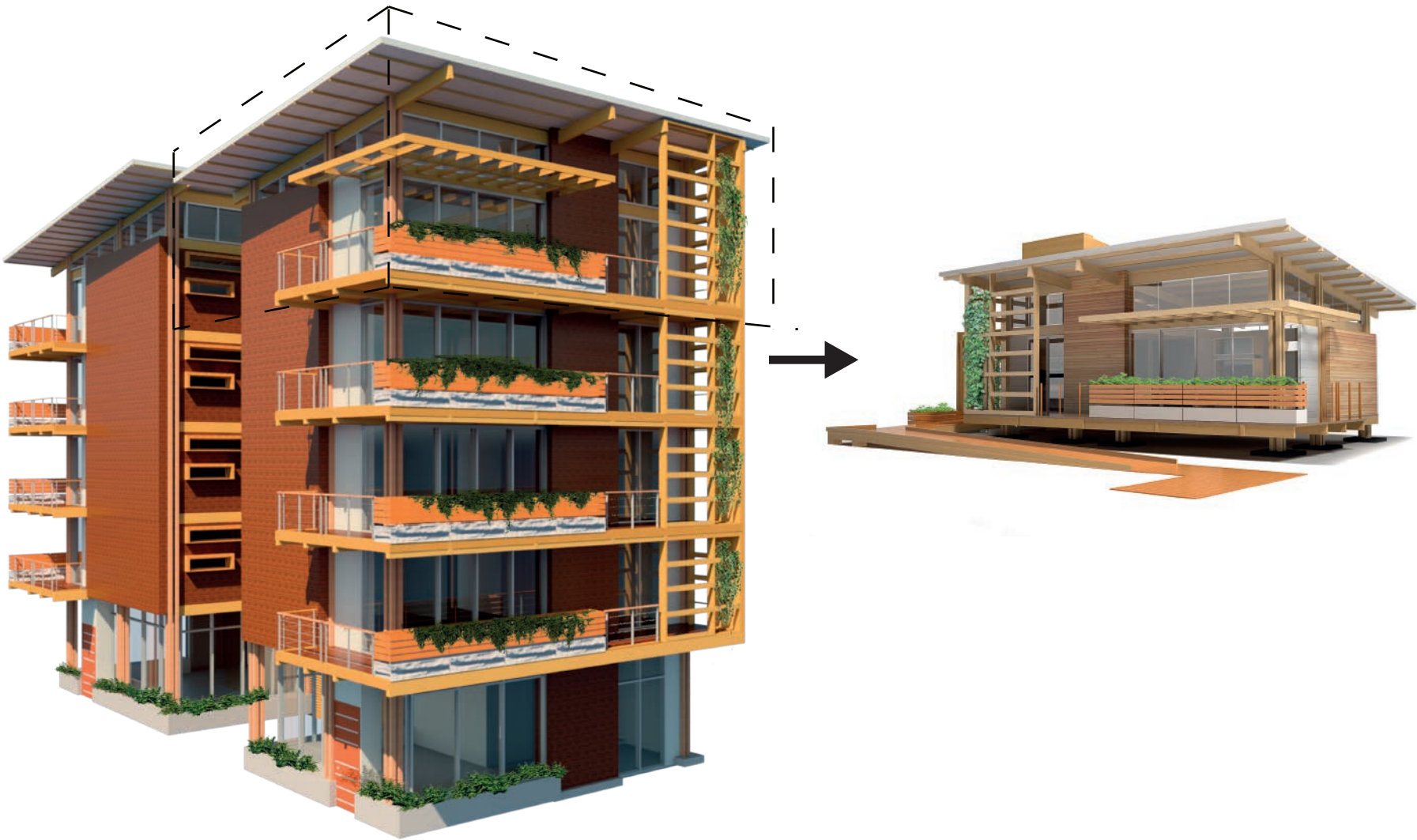
Sheet title

Competition Dwelling

Content: -Floor plans  
-Exterior renderings

Scale: None      Date: 11/3/2014

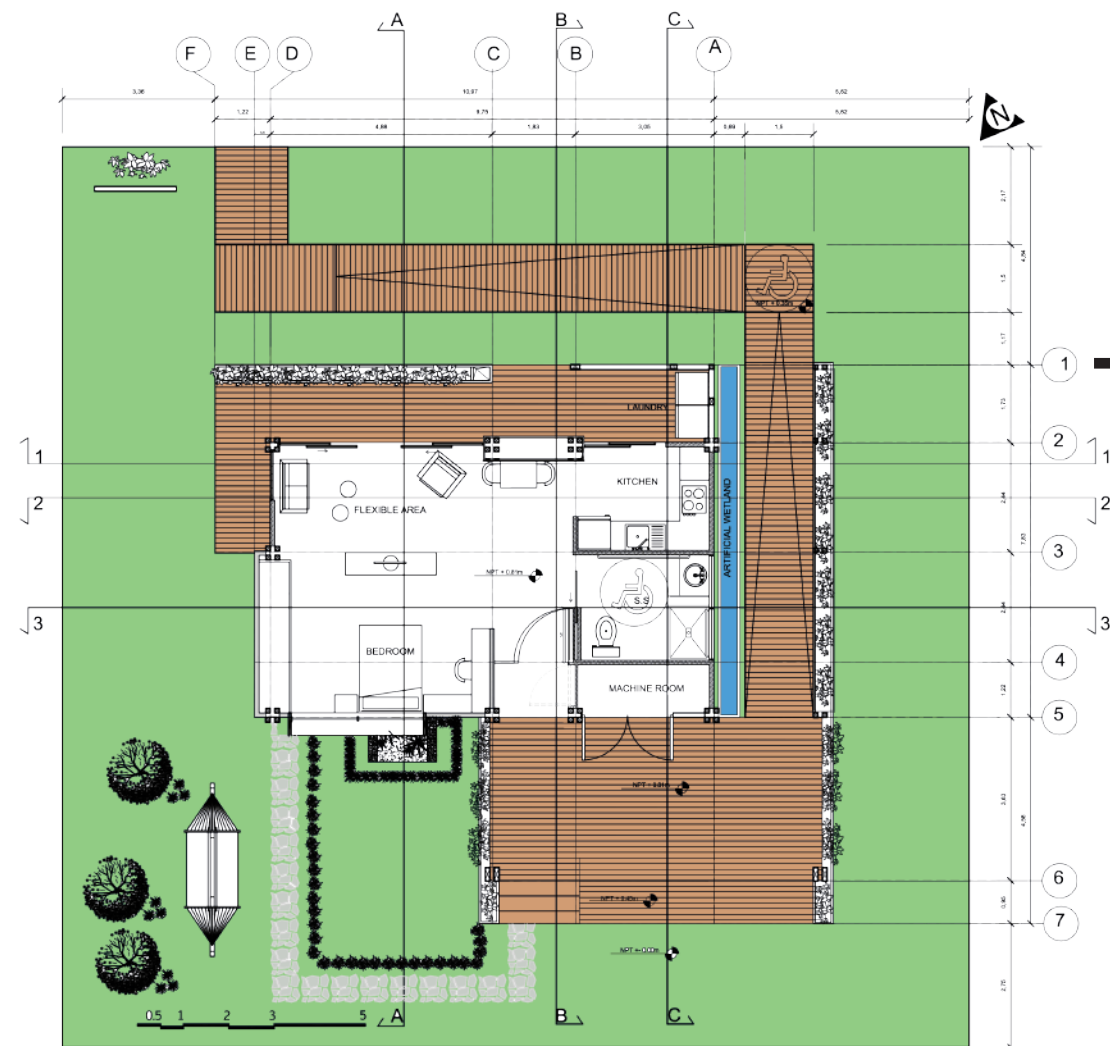
Code: GE-330



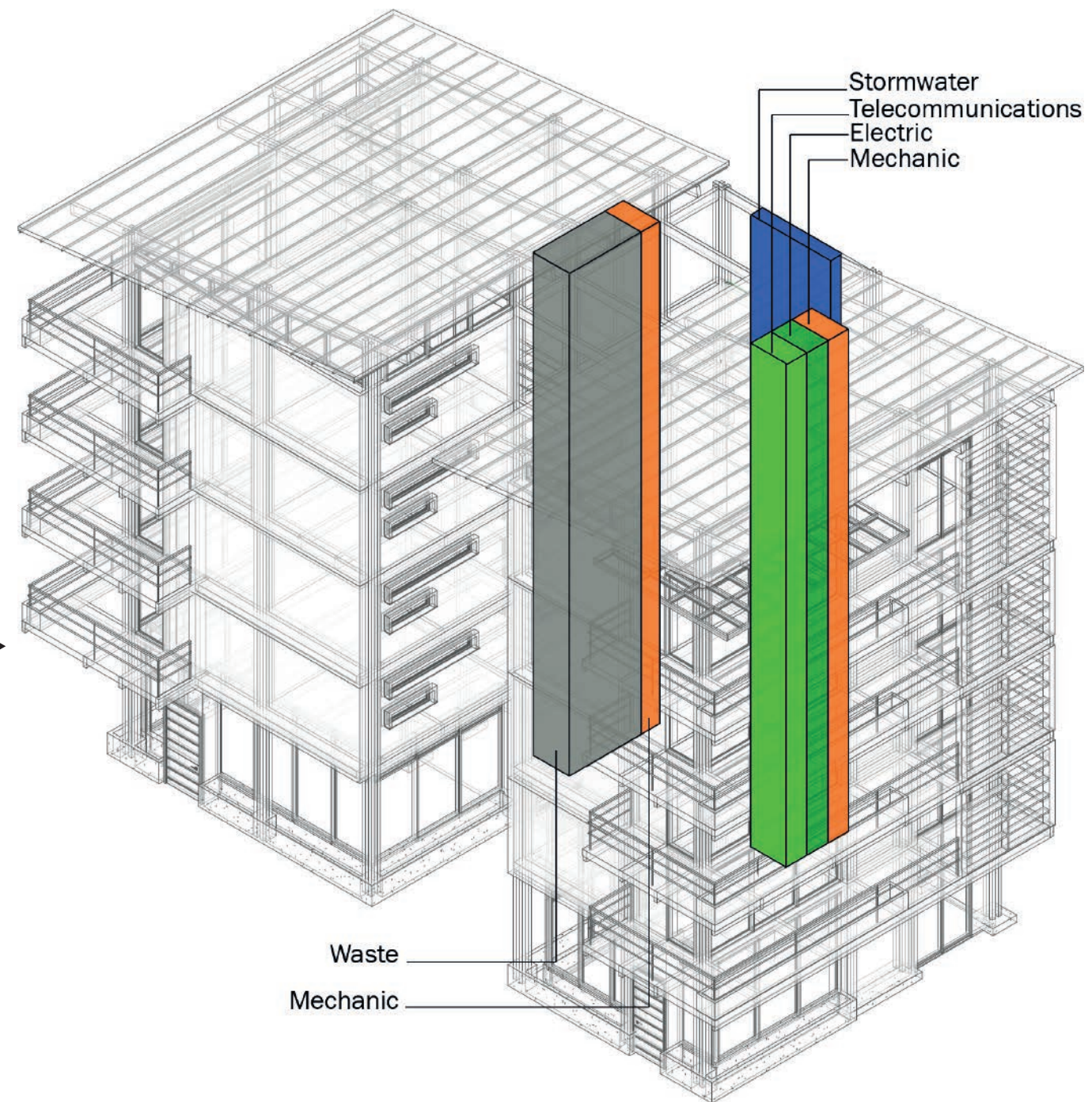


For the competition in Versailles, Tec Team is going to build the 55.5 m<sup>2</sup> apartment (52.02 m<sup>2</sup> of measurable area). This option has a machine room that in mini-towers will be transformed into ducts where all the pipes, wires, and waste can travel vertically and connect the building.

Each floor is going to have a common laundry.



\* Last minute change because of the constructive matters.



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Sheet title

Competition Dwelling

Content: -Floor plan  
-Duct diagram

Scale: None Date: 11/3/2014

Code: GE-331





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Exterior Renderings	
Content: -Vew from 1 <sup>st</sup> Avenue	
Scale: None	Date: 11/3/2014
Code: GE-401	





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Sheet title	
Exterior Renderings	
Content: -Vew from the Encouter Plaza	
Scale: None	Date: 11/3/2014
Code: GE-402	





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Sheet title

Exterior Renderings

Content: -Vew from a Trópika's  
balcony

Scale: None      Date: 11/3/2014

Code: GE-403





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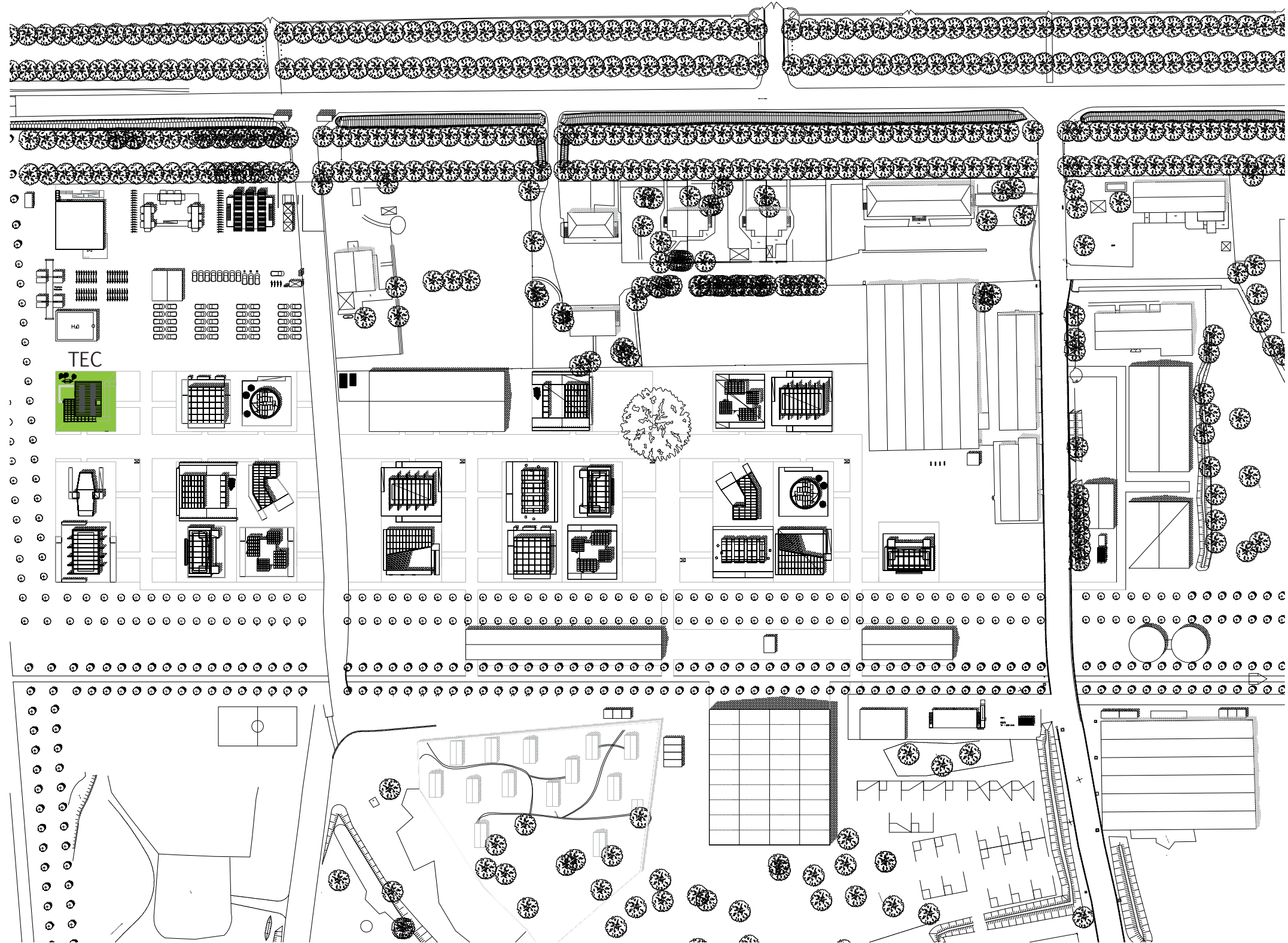
Exterior Renderings

Content: -Exterior renderings of  
the living prototype

Scale: None

Date: 11/3/2014

Code: GE-404



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Sheet title

La Cité du Soleil Plan

Content: -La Cité du Soleil Plan

Scale: 1:1500 Date: 11/3/2014

Code: AR-001



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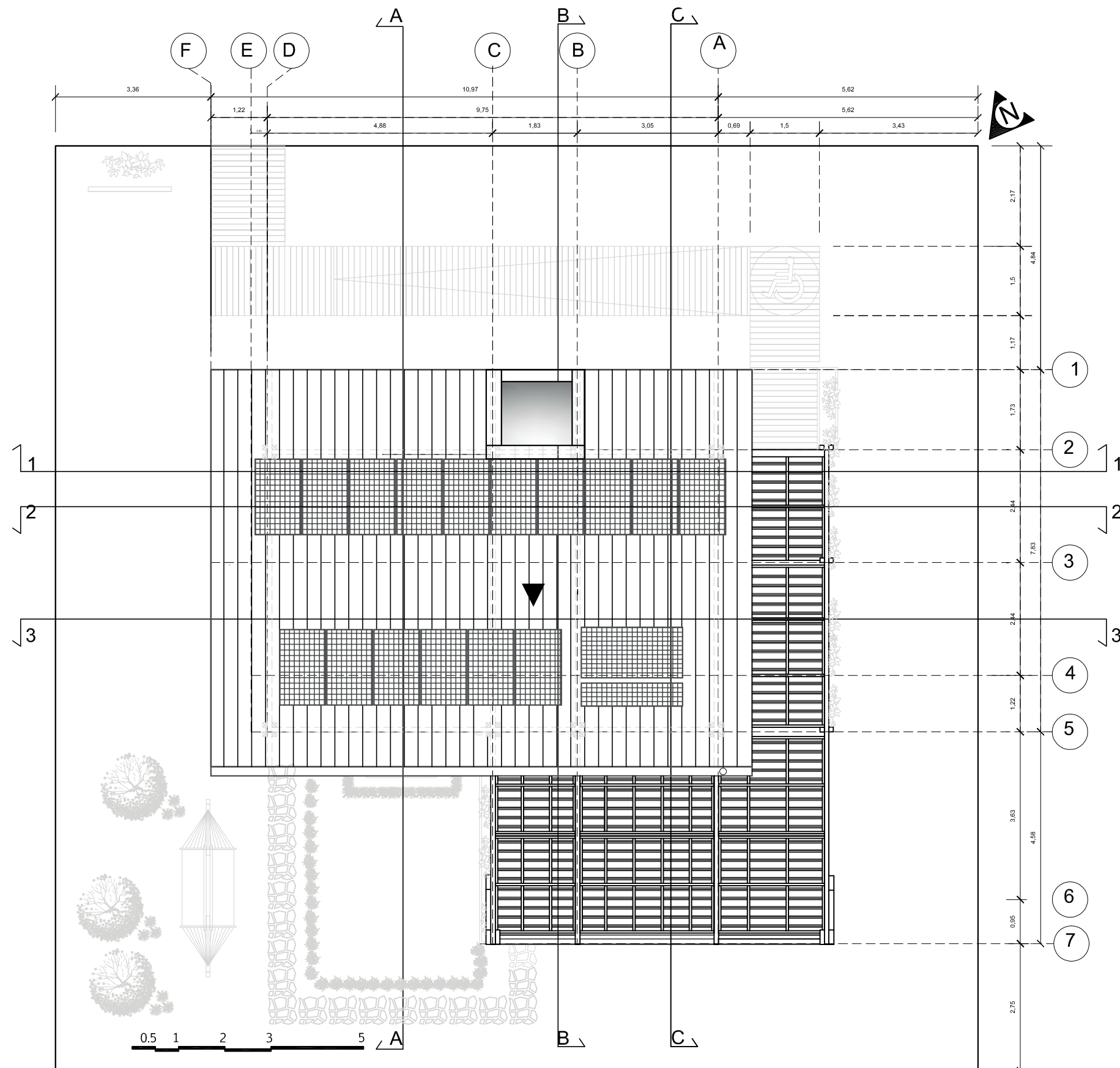
Site plan

Content: -Site plan

Scale: 1:100

Date: 11/3/2014

Code: AR-002



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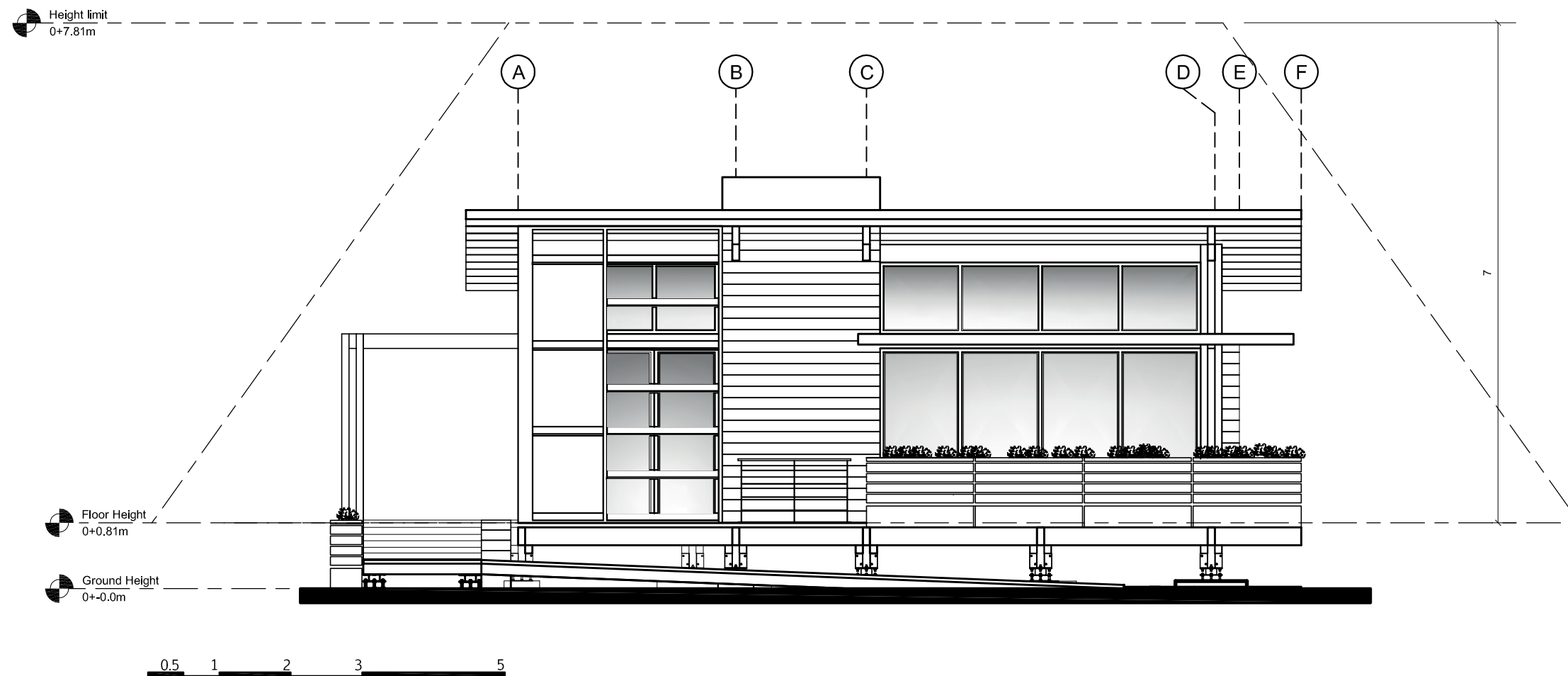
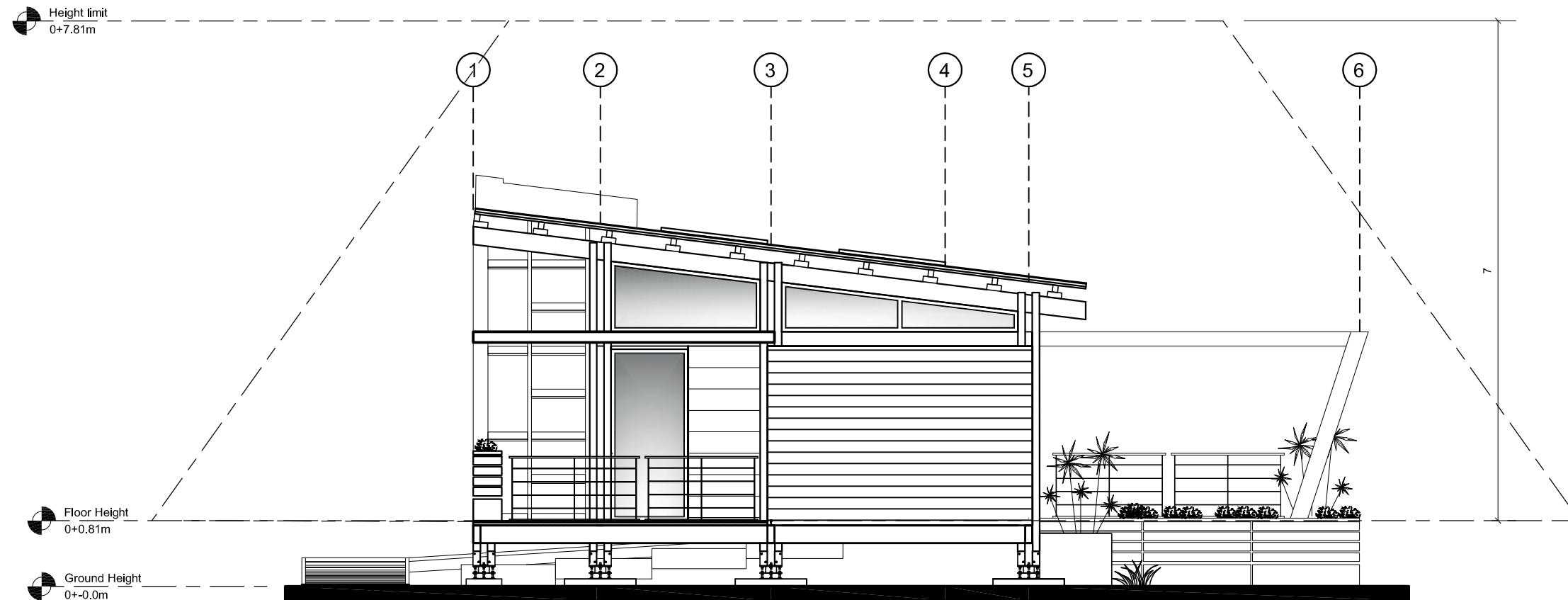
Sheet title

Solar Envelope

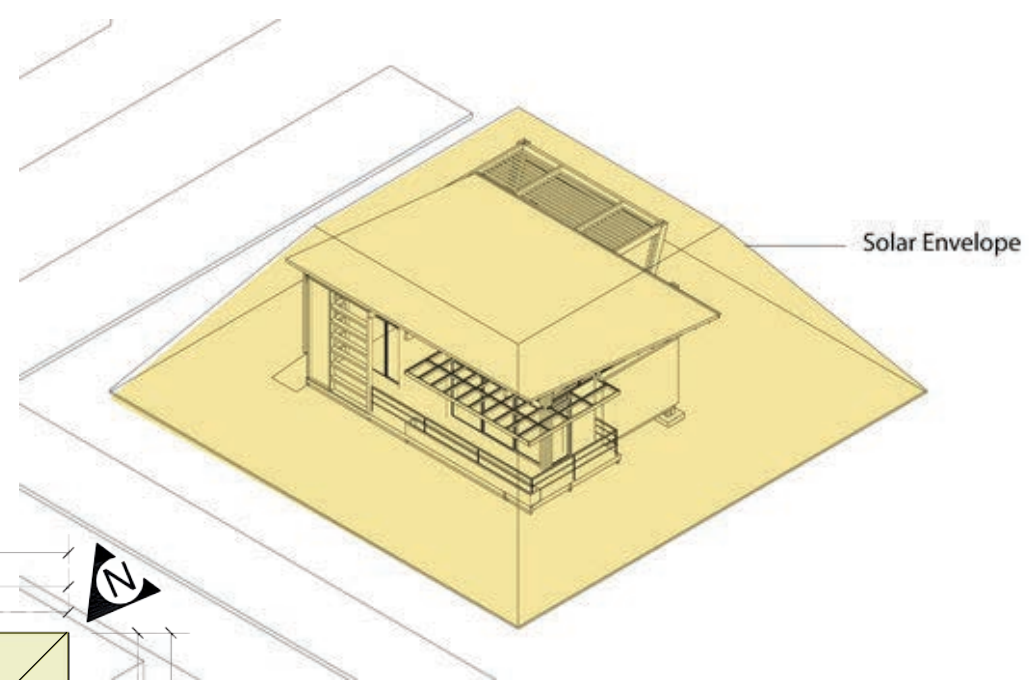
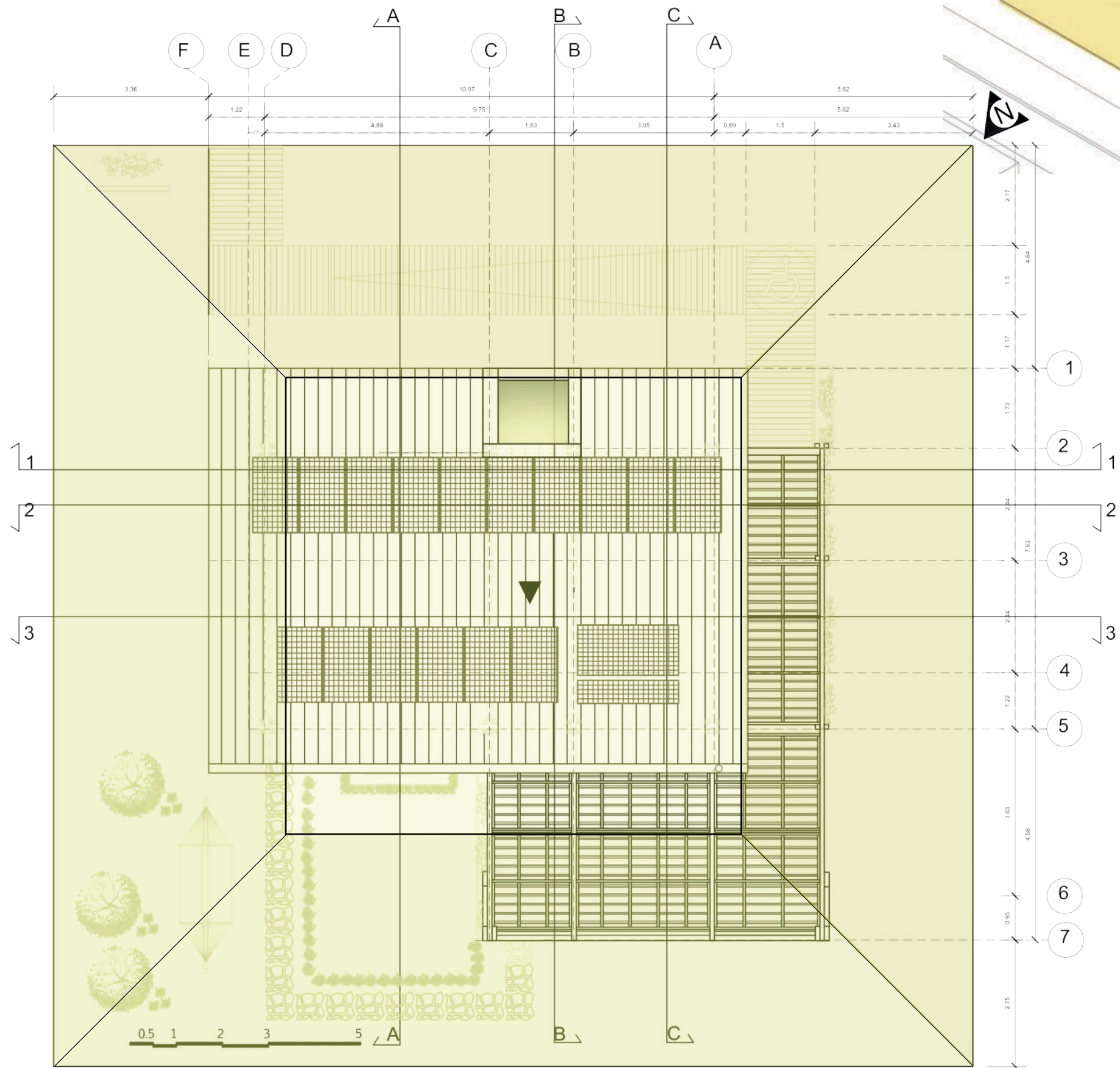
Content: -Site elevations

Scale: 1:75      Date:11/3/2014

Code: AR-011







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Project: Trópika

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Sheet title

Solar Envelope

Content: -House plan  
-3D view

Scale: 1:75

Date: 11/7/2014

Code: AR-012

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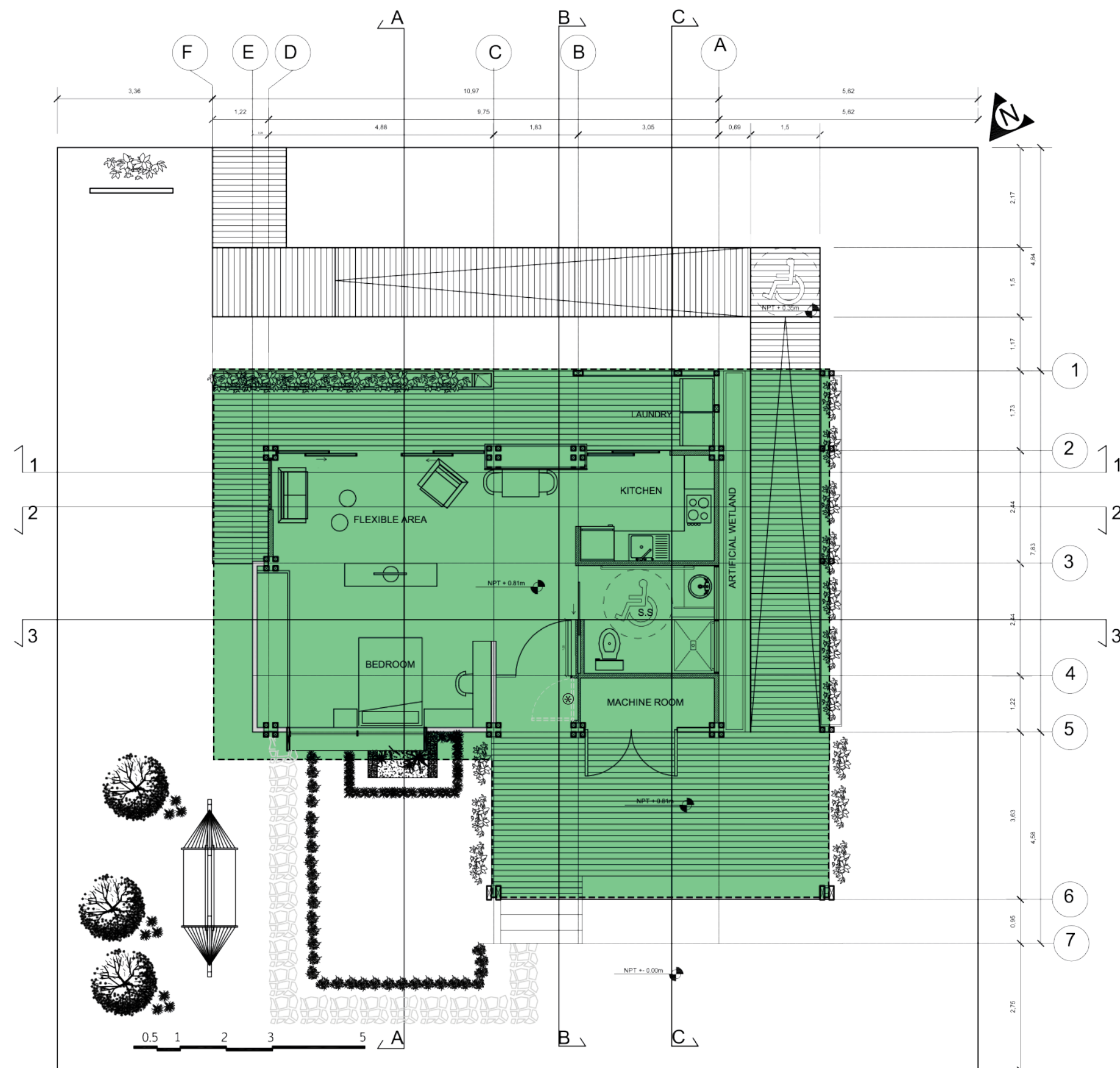
Architectural Footprint

Content: -House plan

Scale: 1:100

Date: 11/3/2014

Code: AR-014



\* Last minute change because of the constructive matters.

Footprint area: 133,17m<sup>2</sup>

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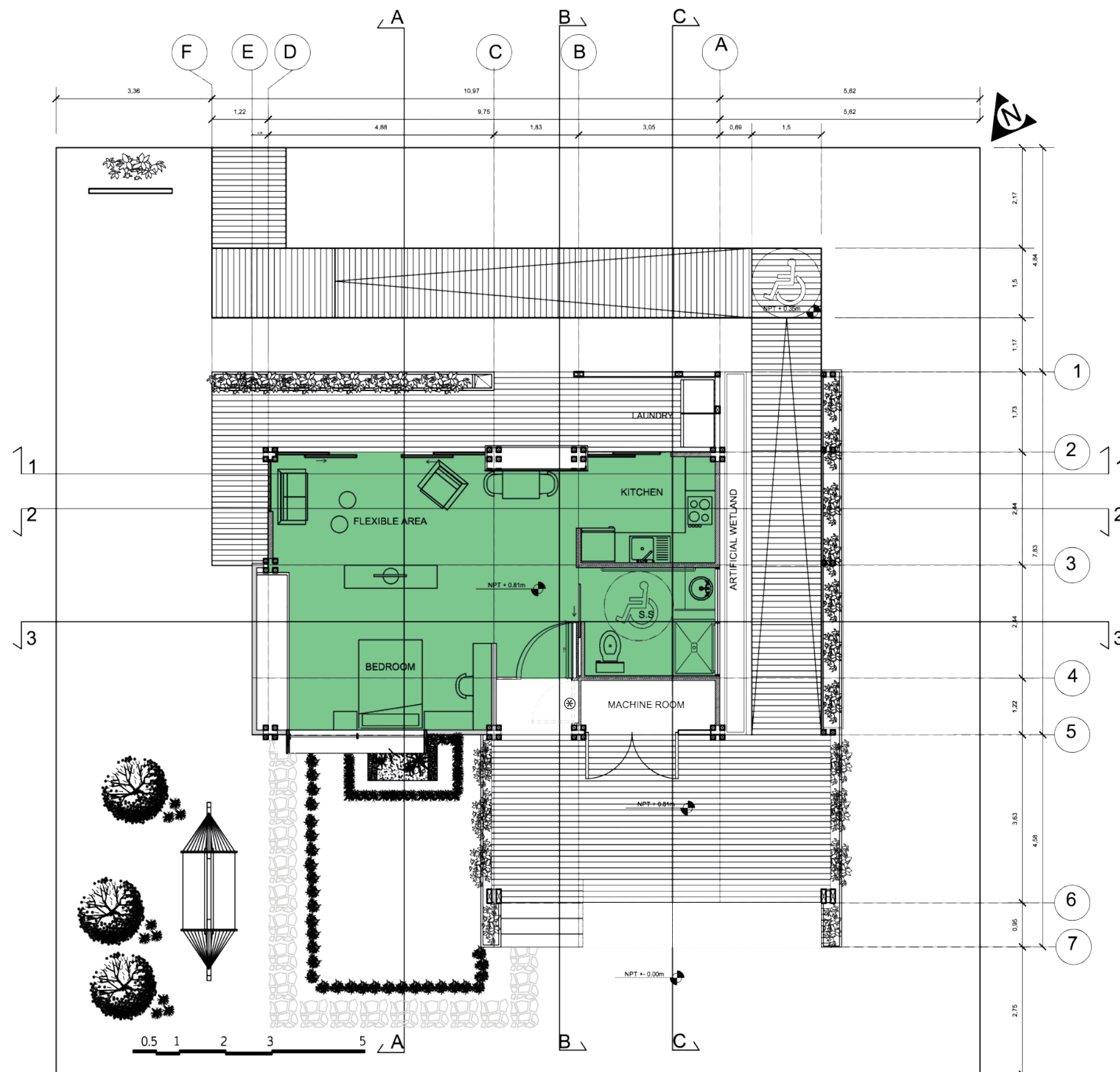
Measurable Area

Content: -House plan

Scale: 1:100

Date: 11/3/2014

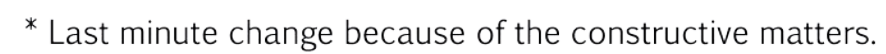
Code: AR-017



\* Last minute change because of the constructive matters.

Mesurable area: 48,42m<sup>2</sup>





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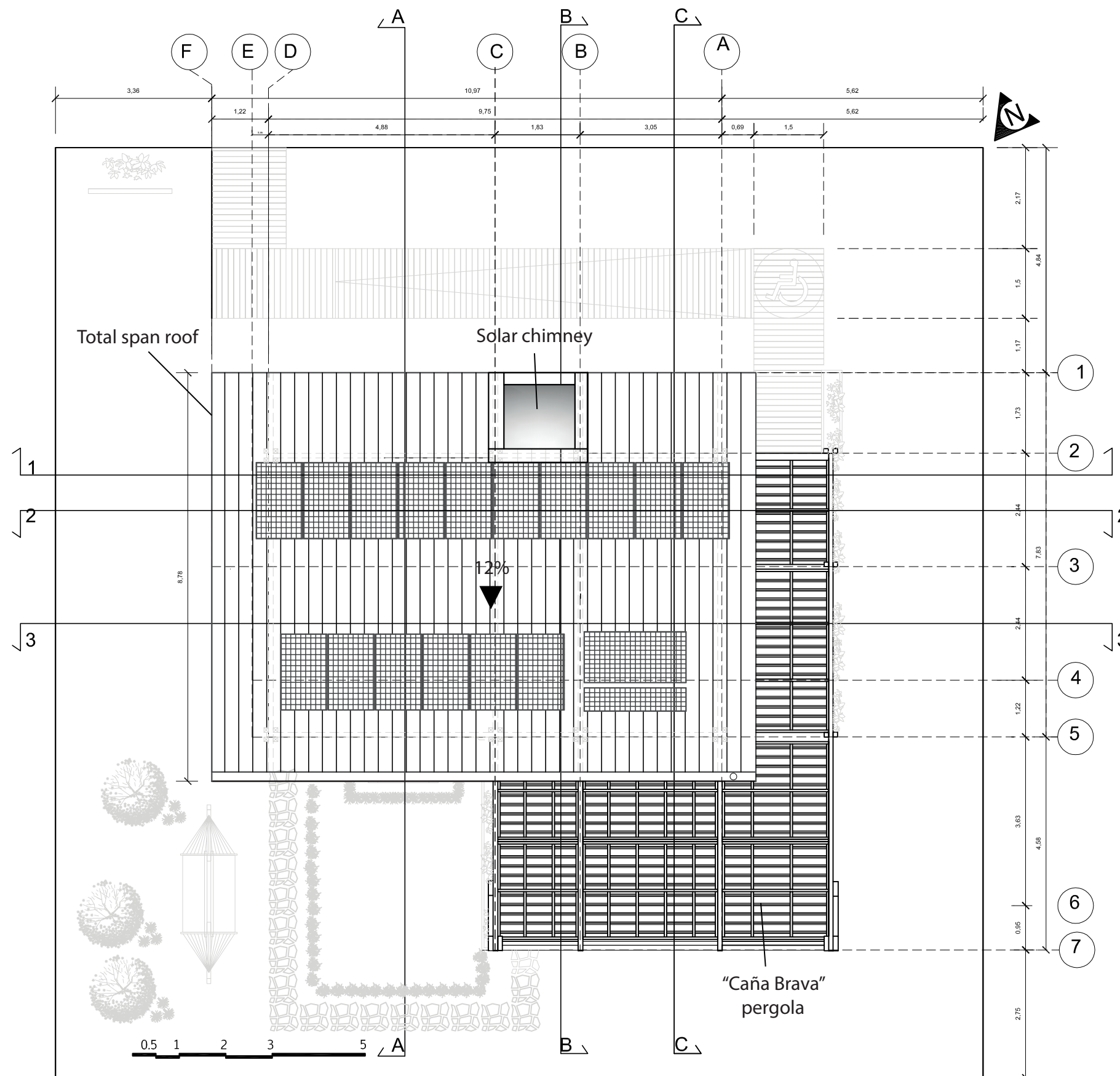
Roof Plan

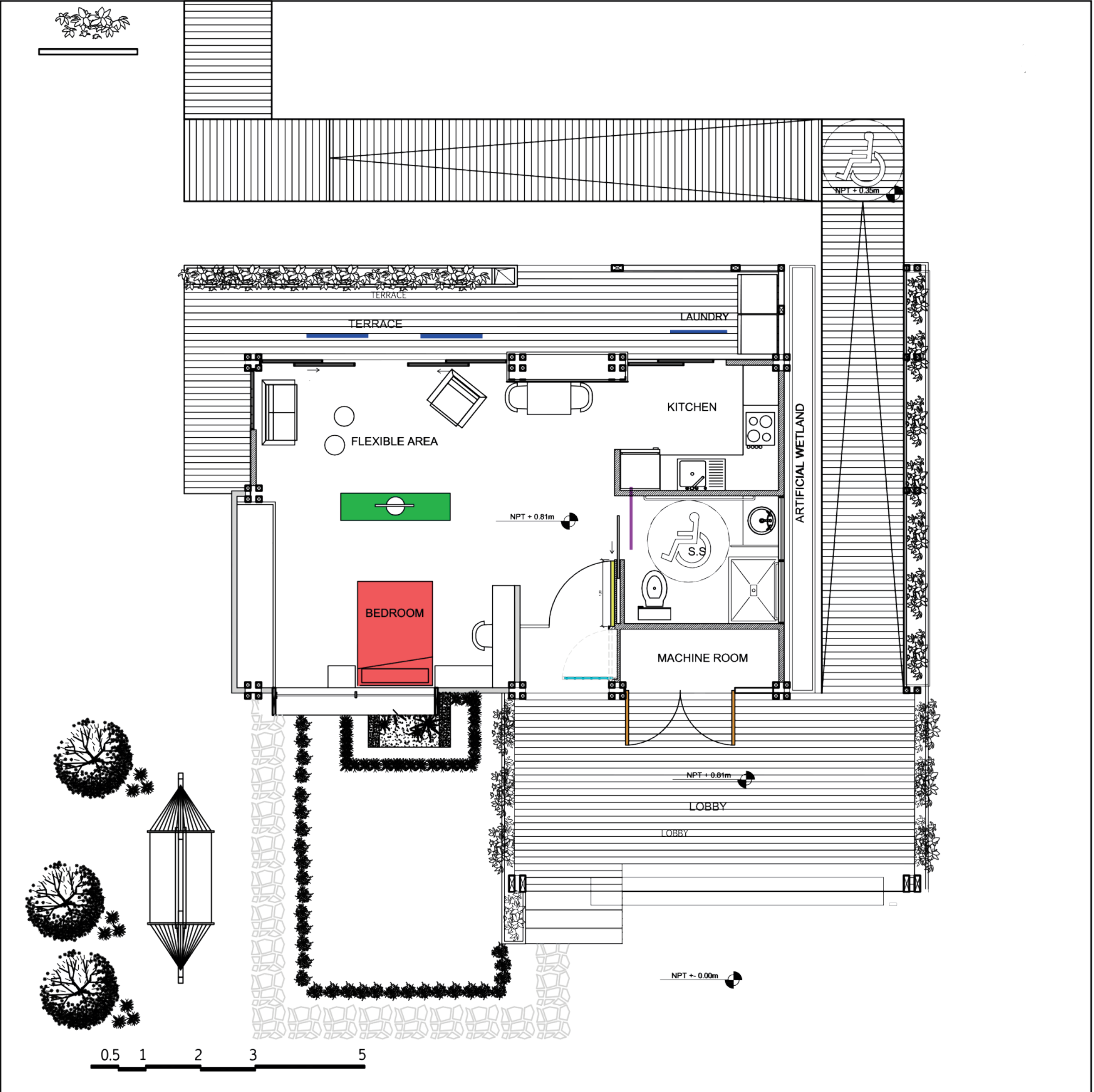
Content: -Roof plan

Scale: 1:100

Date: 11/3/2014

Code: AR-031





Sliding door Sliding glass door Pivot door Machineroom door TV Furniture Bed Electric Panel Wall



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Sheet title

Reconfigurable features

Content: -House plan

Scale: 1:75

Date: 11/3/2014

Code: AR-041



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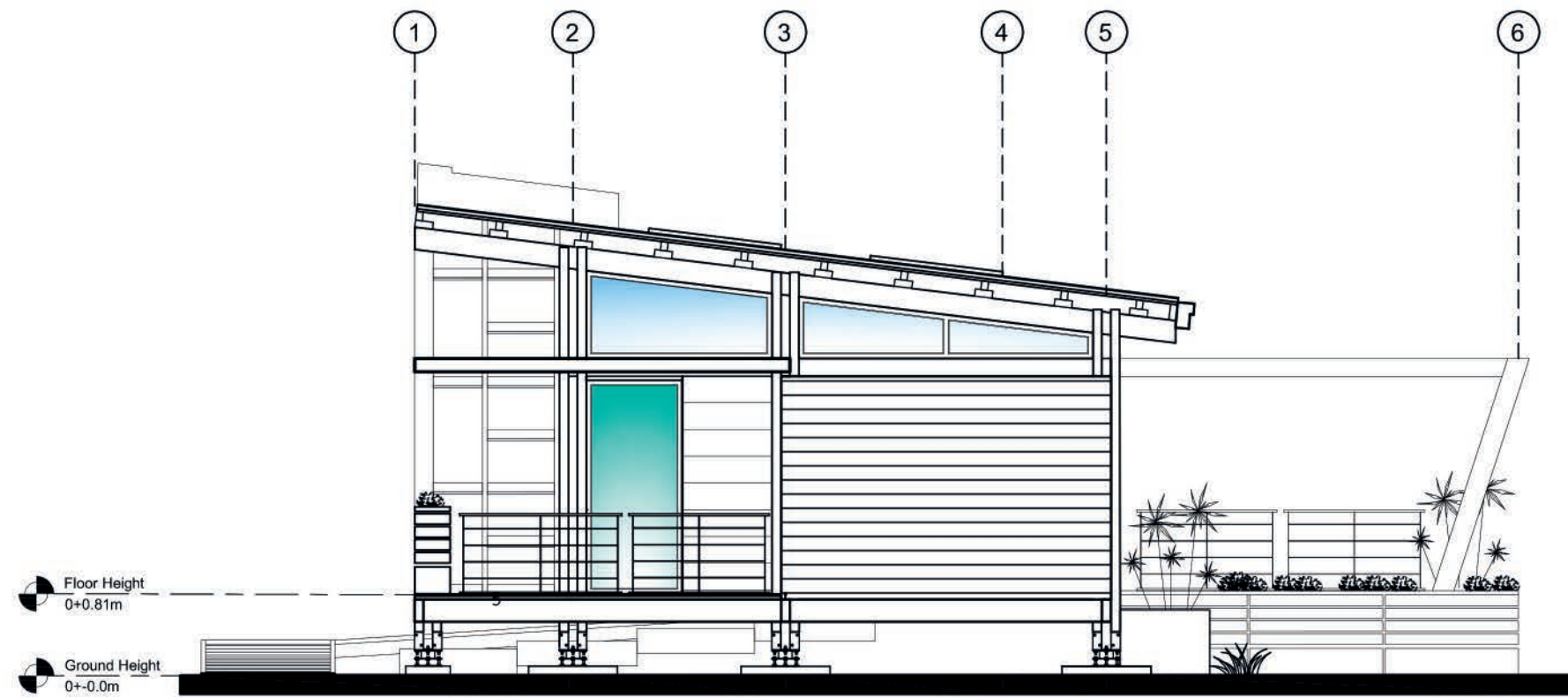
Sheet title

Reconfigurable features

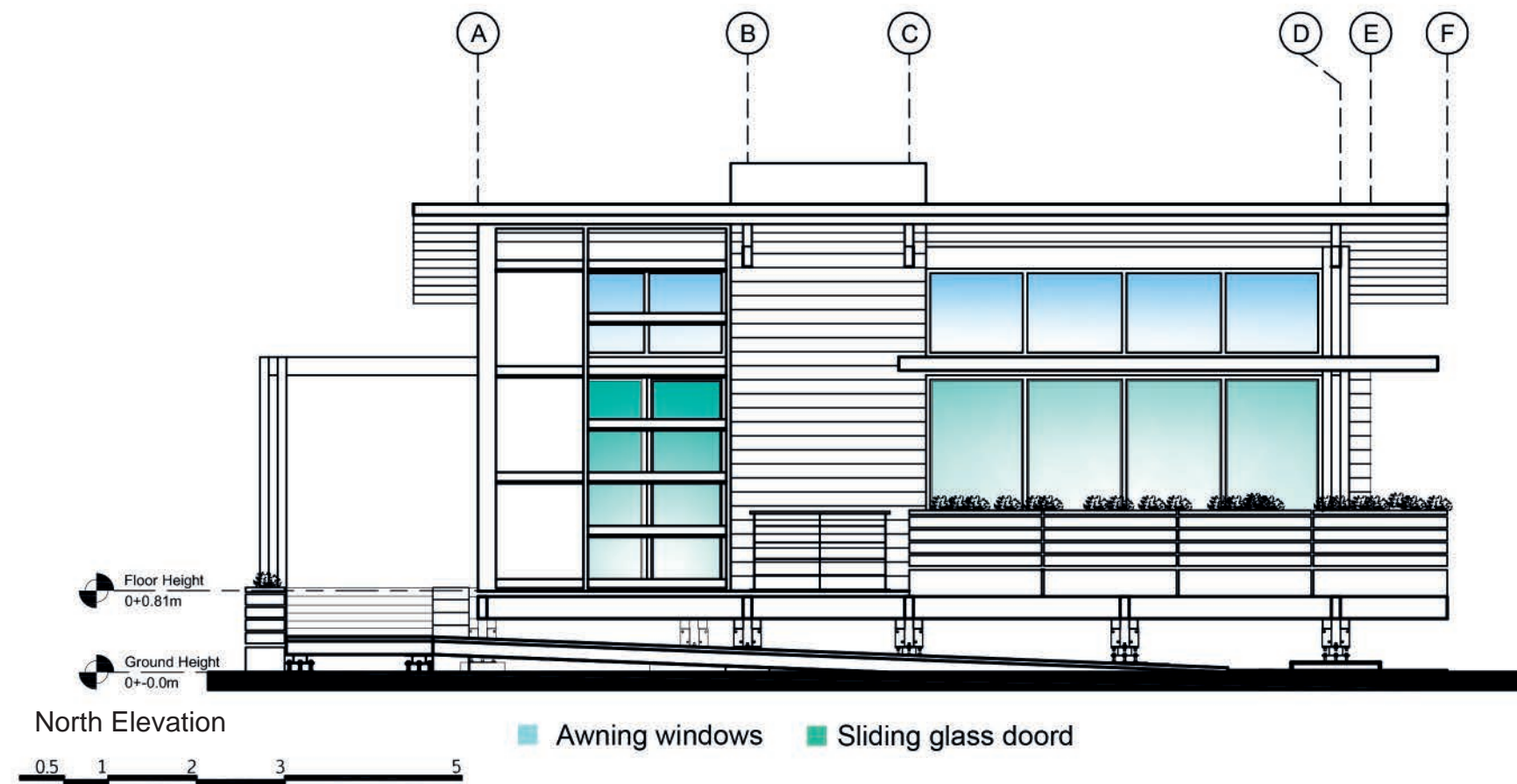
Content: -West elevation  
-North elevation

Scale: 1:75      Date: 11/3/2014

Code: AR-042



West Elevation



North Elevation



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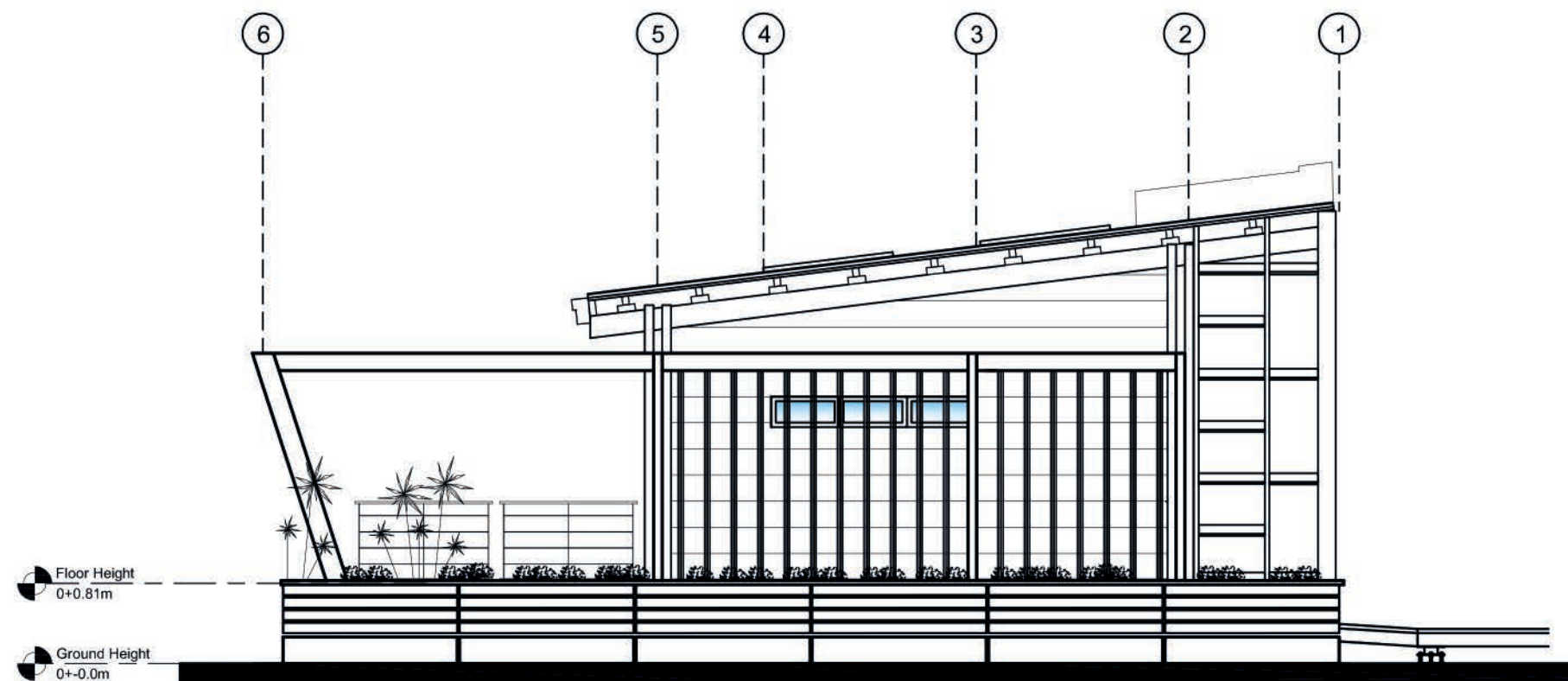
Reconfigurable features

Content: -East elevation  
-South elevation

Scale: 1:75

Date:11/3/2014

Code: AR-043



East Elevation



South Elevation

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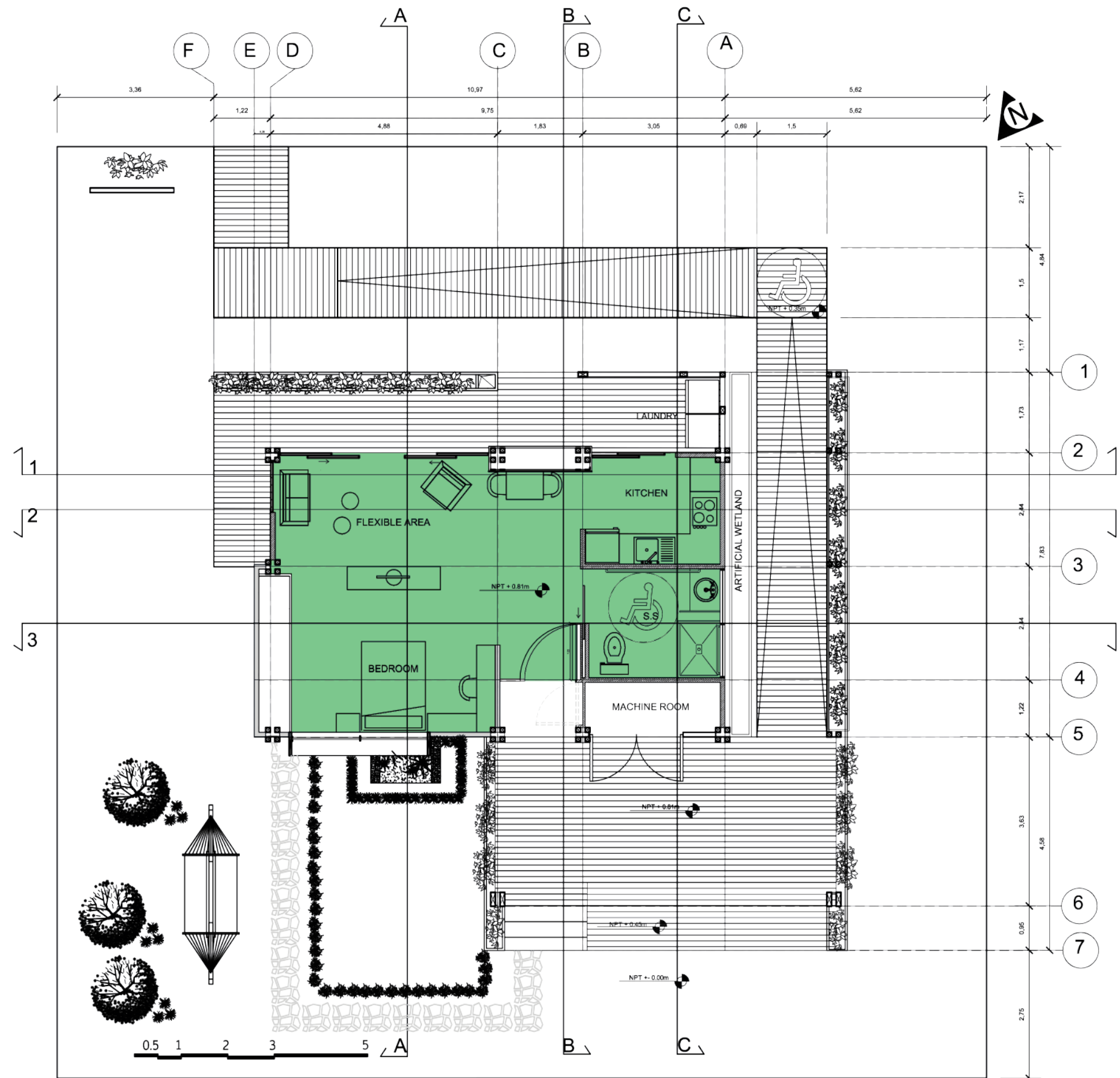
Measurable Area

Content: -House plan

Scale: 1:100

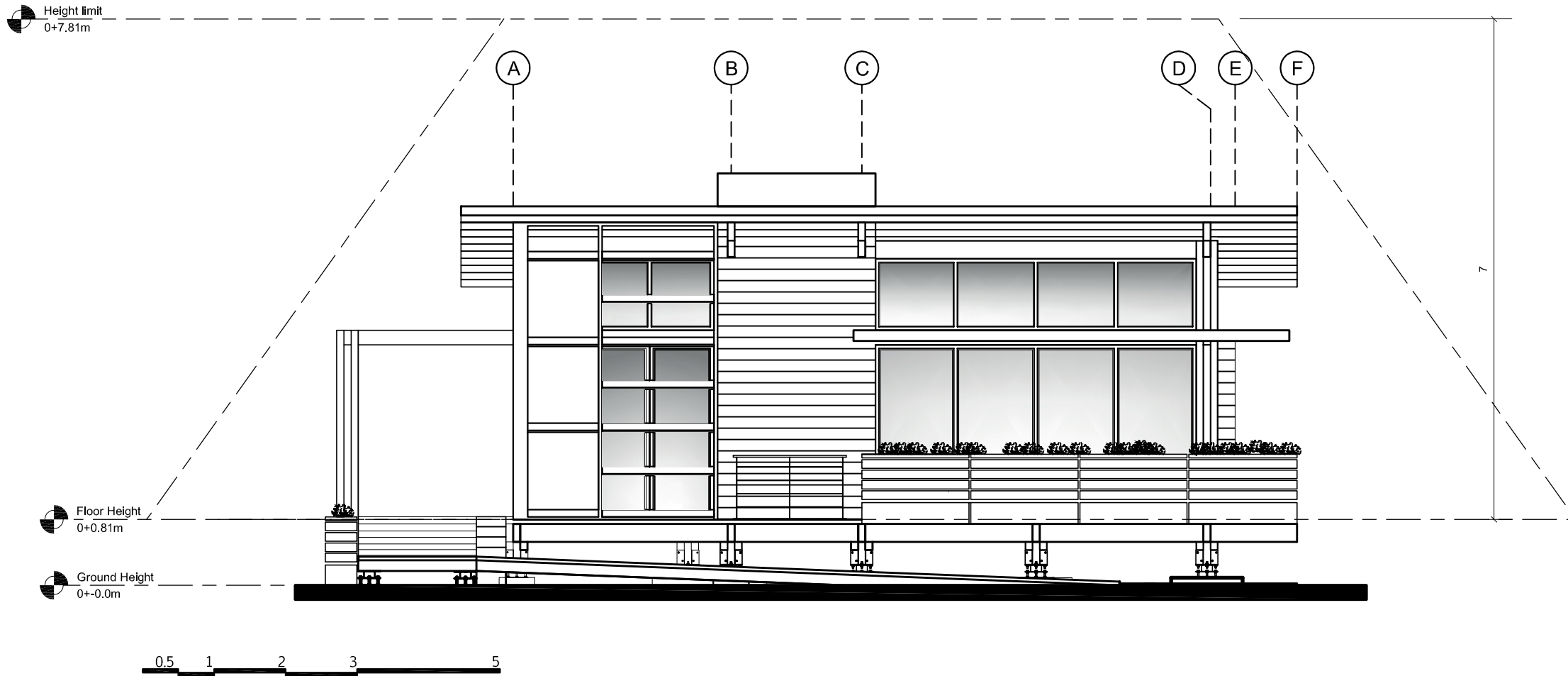
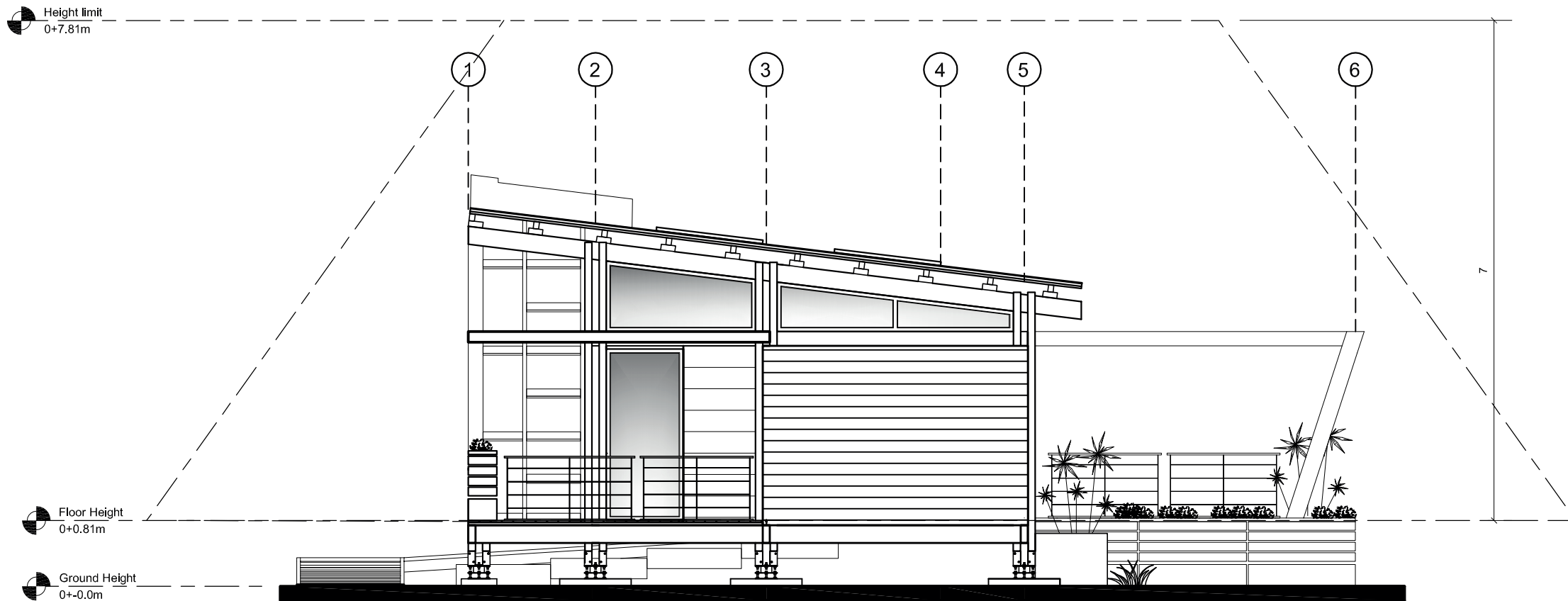
Date: 11/3/2014


Code: AR-051




\* Last minute change because of the constructive matters.

Mesurable area: 48,42m<sup>2</sup>







Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of architecture

Sheet title

Solar Envelope

Content: -Site elevations

Scale: 1:75

Date: 11/3/2014

Code: AR-101

Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

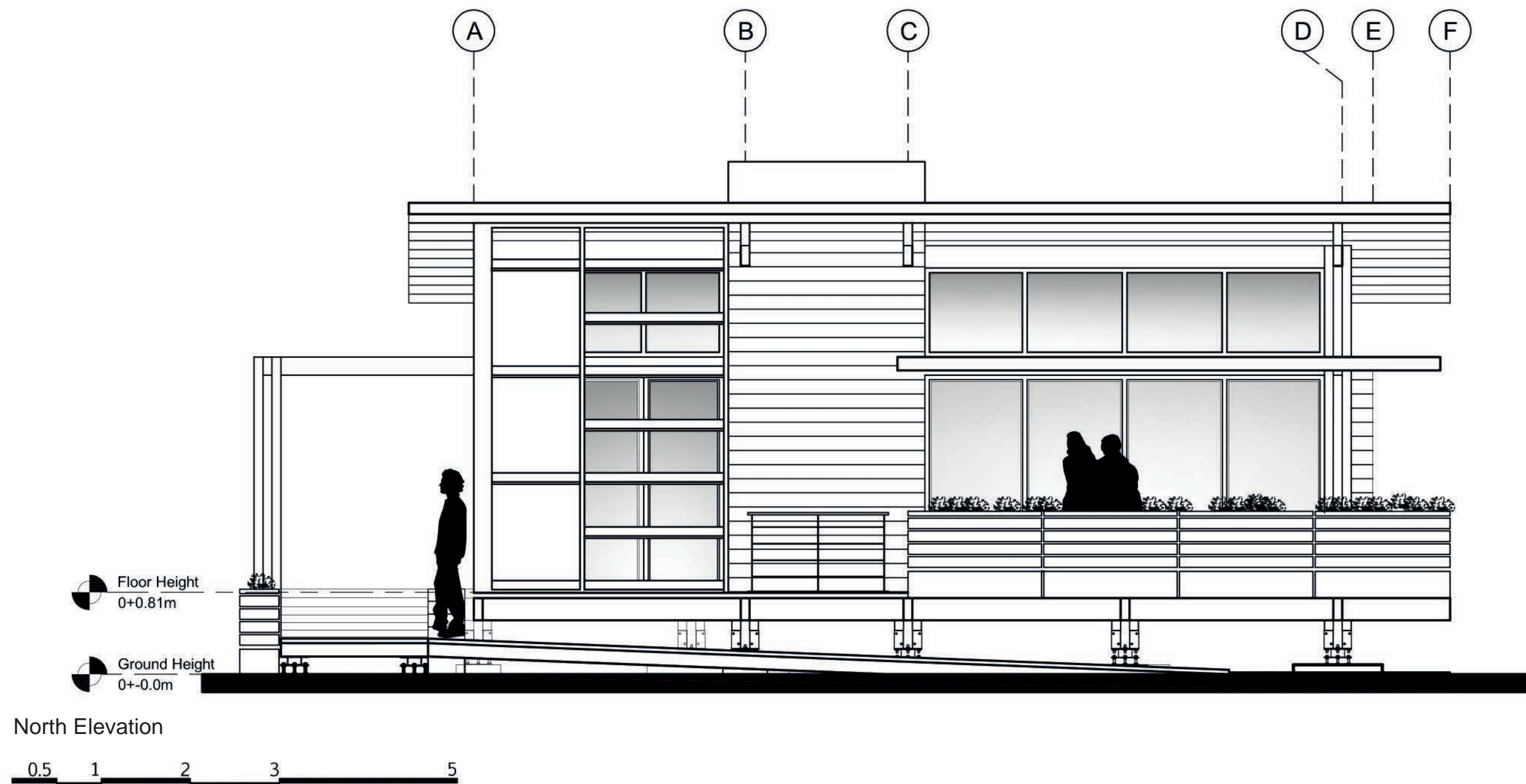
Building Elevations

Content: -North Elevation

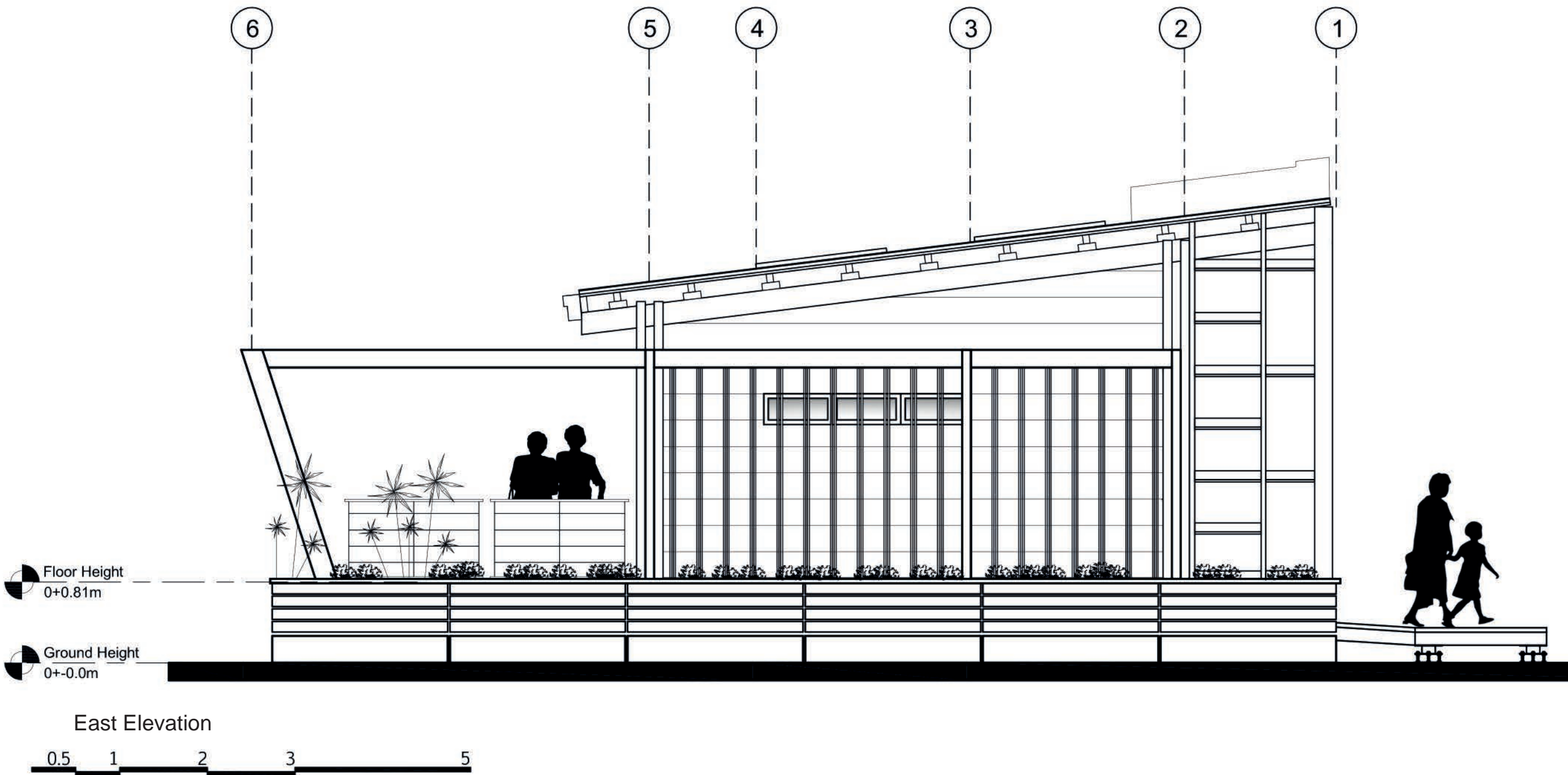
Scale: 1:50

Date: 11/3/2014

Code: AR-111







Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

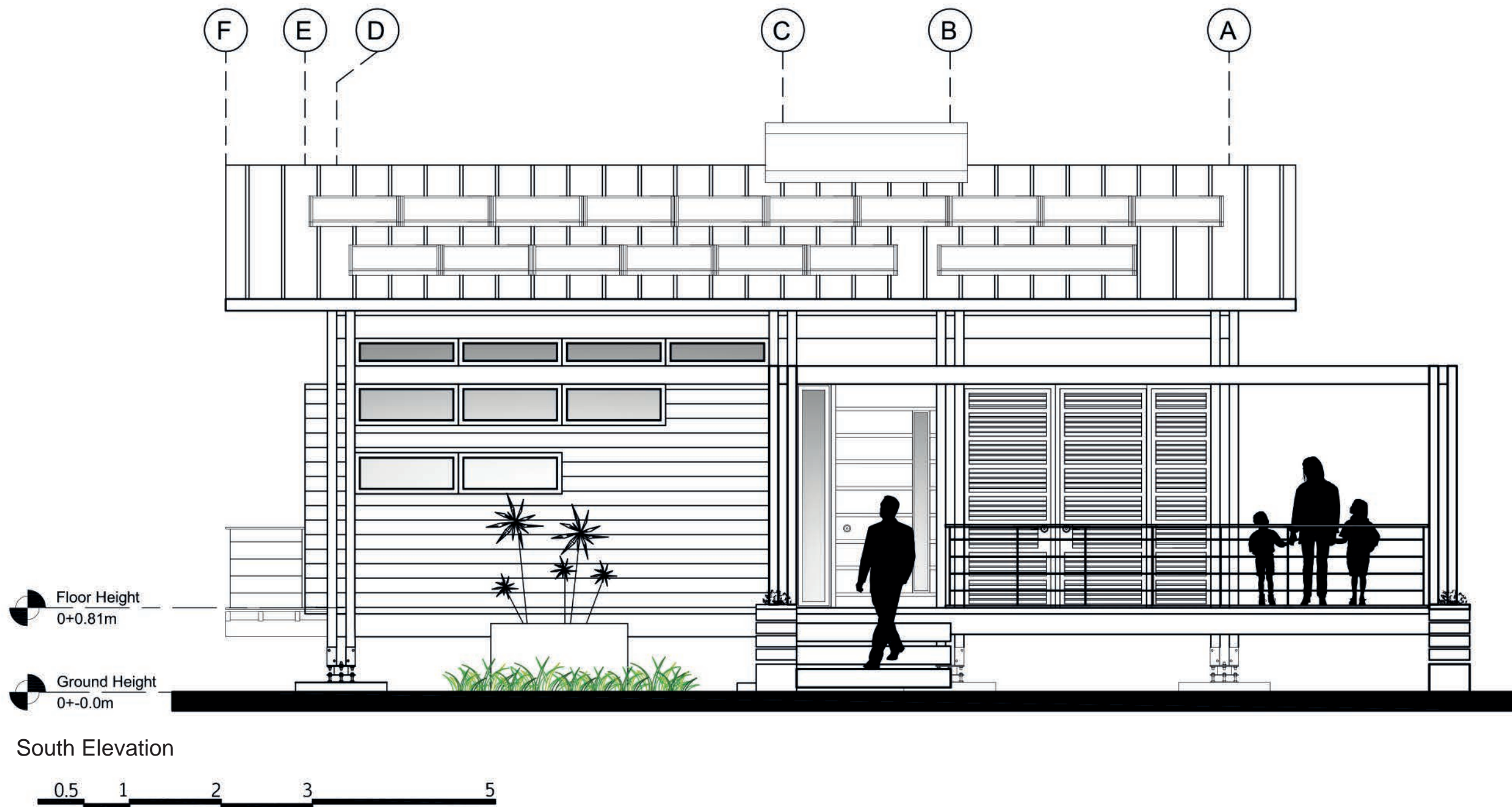
Sheet title

Building Elevations

Content: -South Elevation

Scale: 1:50 Date: 11/3/2014

Code: AR-113



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

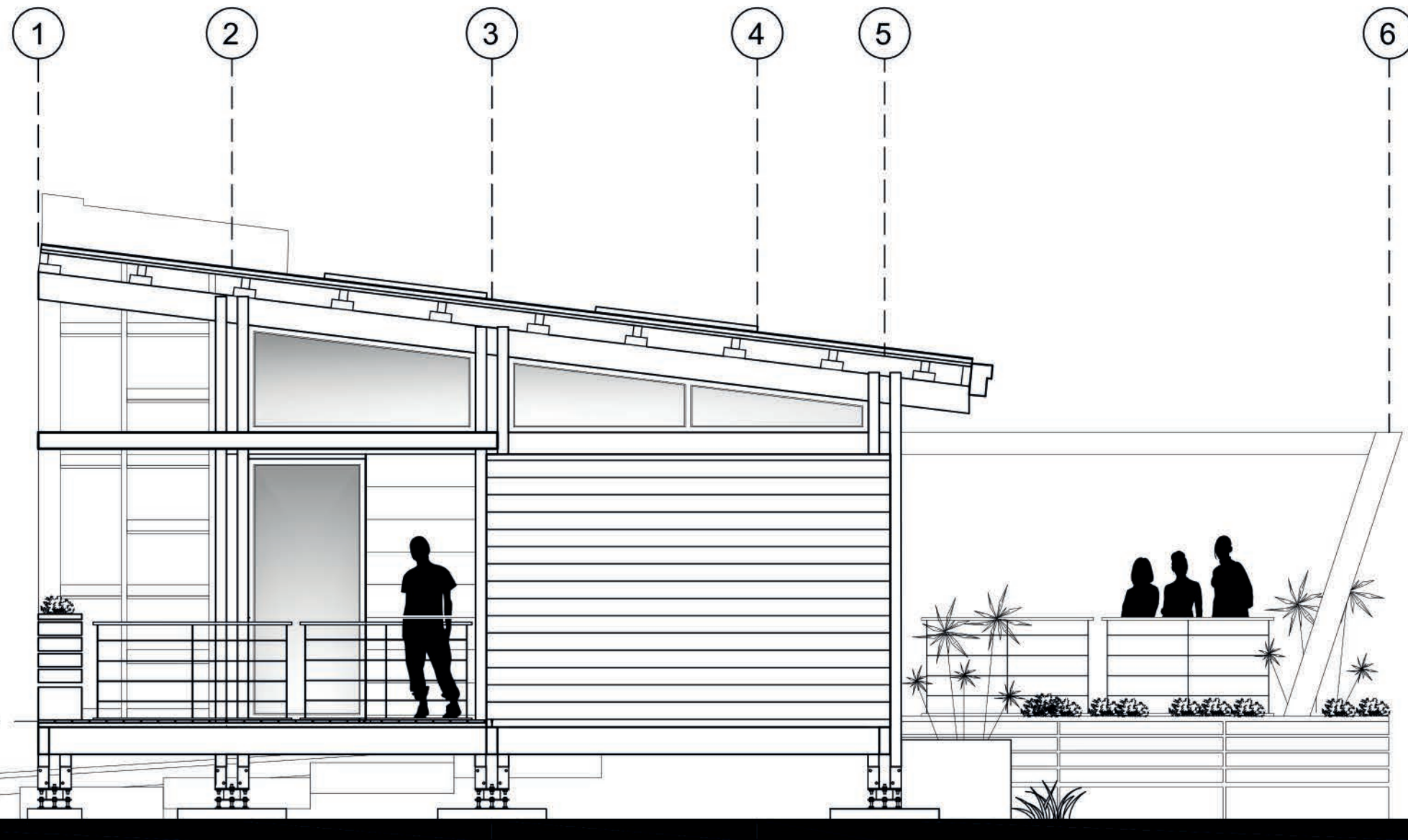
Building Elevations

Content: -West Elevation

Scale: 1:50

Date: 11/3/2014

Code: AR-114



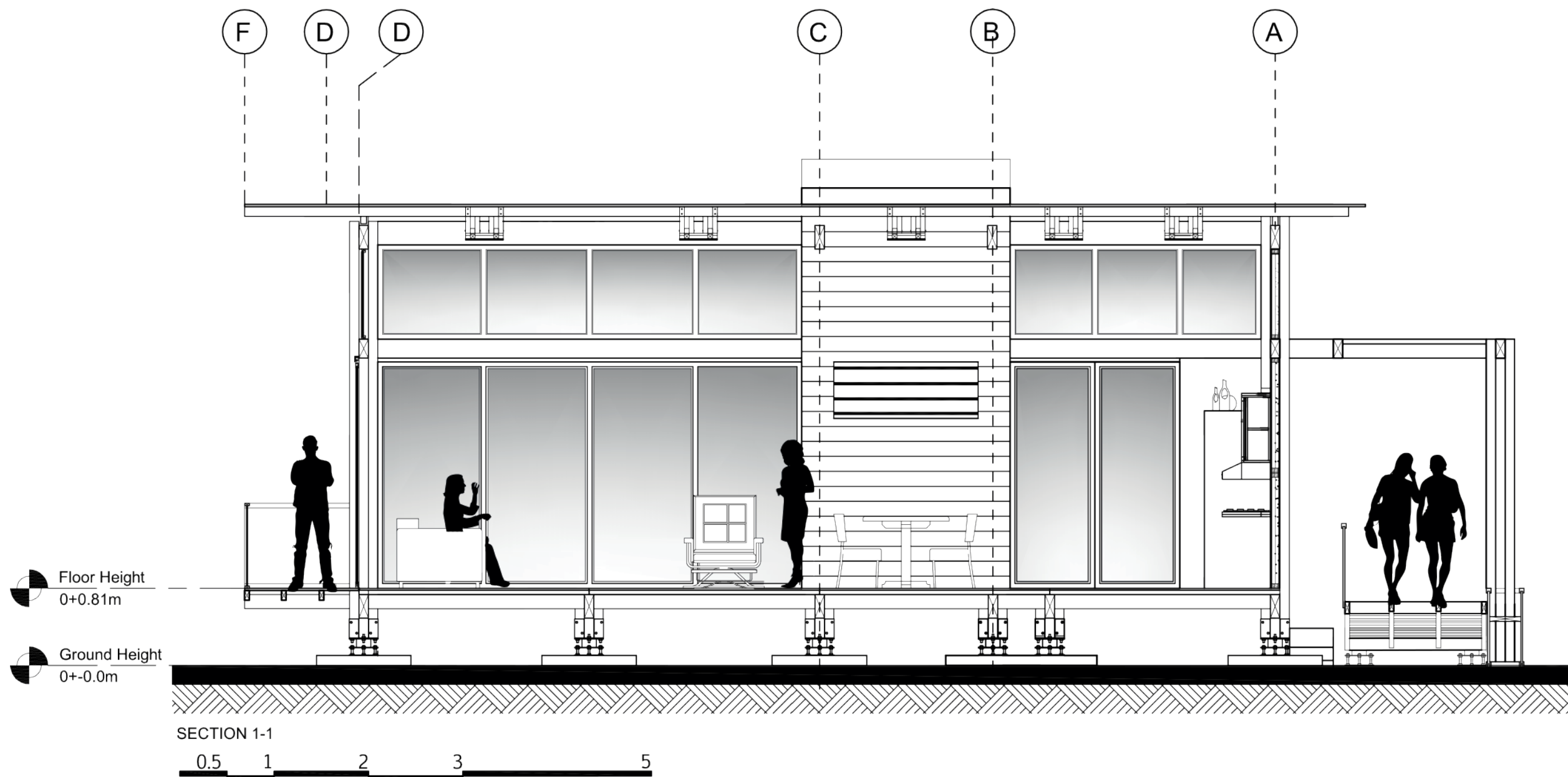
Floor Height  
0+0.81m

Ground Height  
0+-0.0m

West Elevation

0.5 1 2 3 5





Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

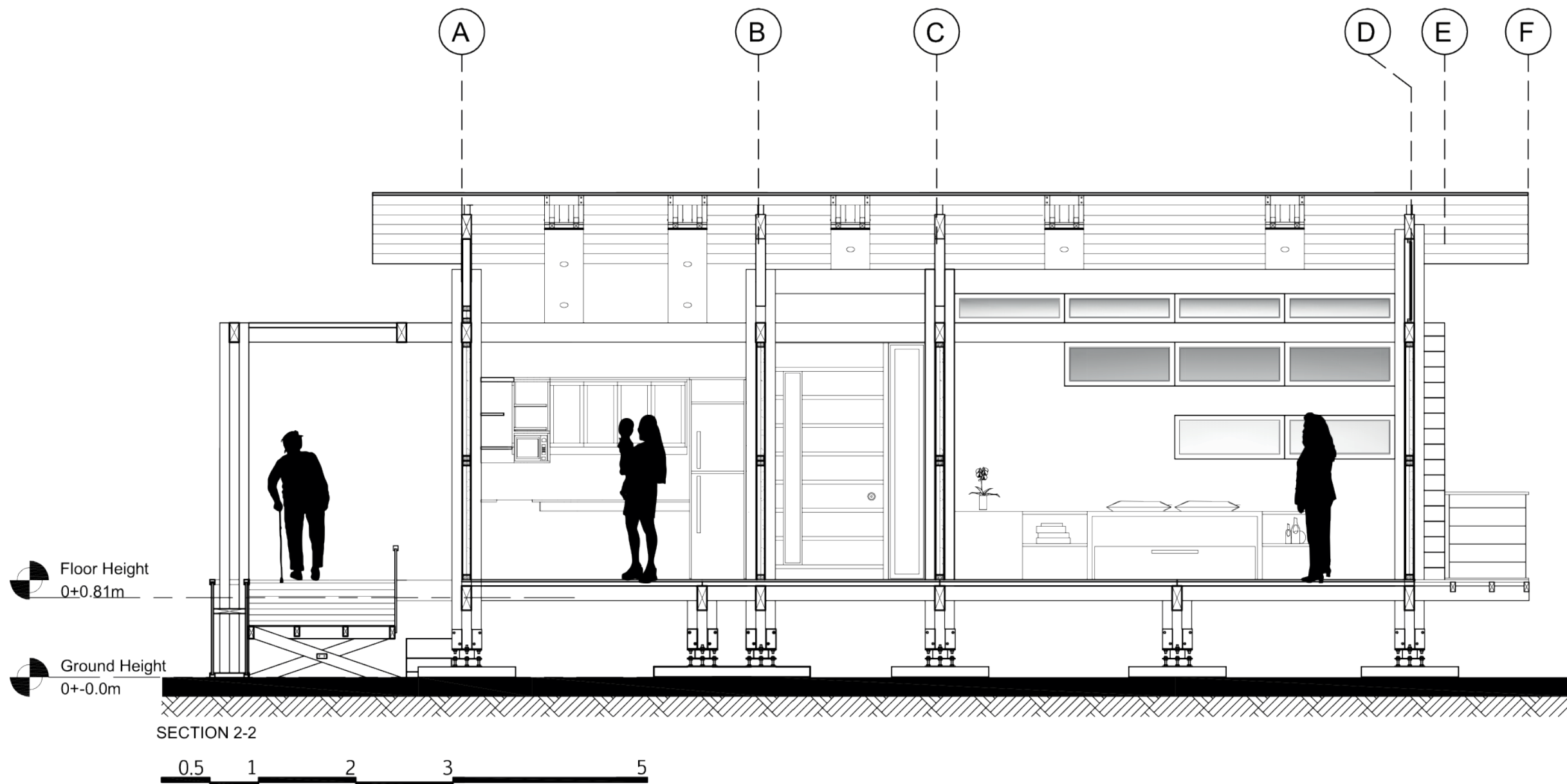
Longitudinal section

Content: -Section 2-2

Scale: 1:50

Date: 11/3/2014

Code: AR-202





Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

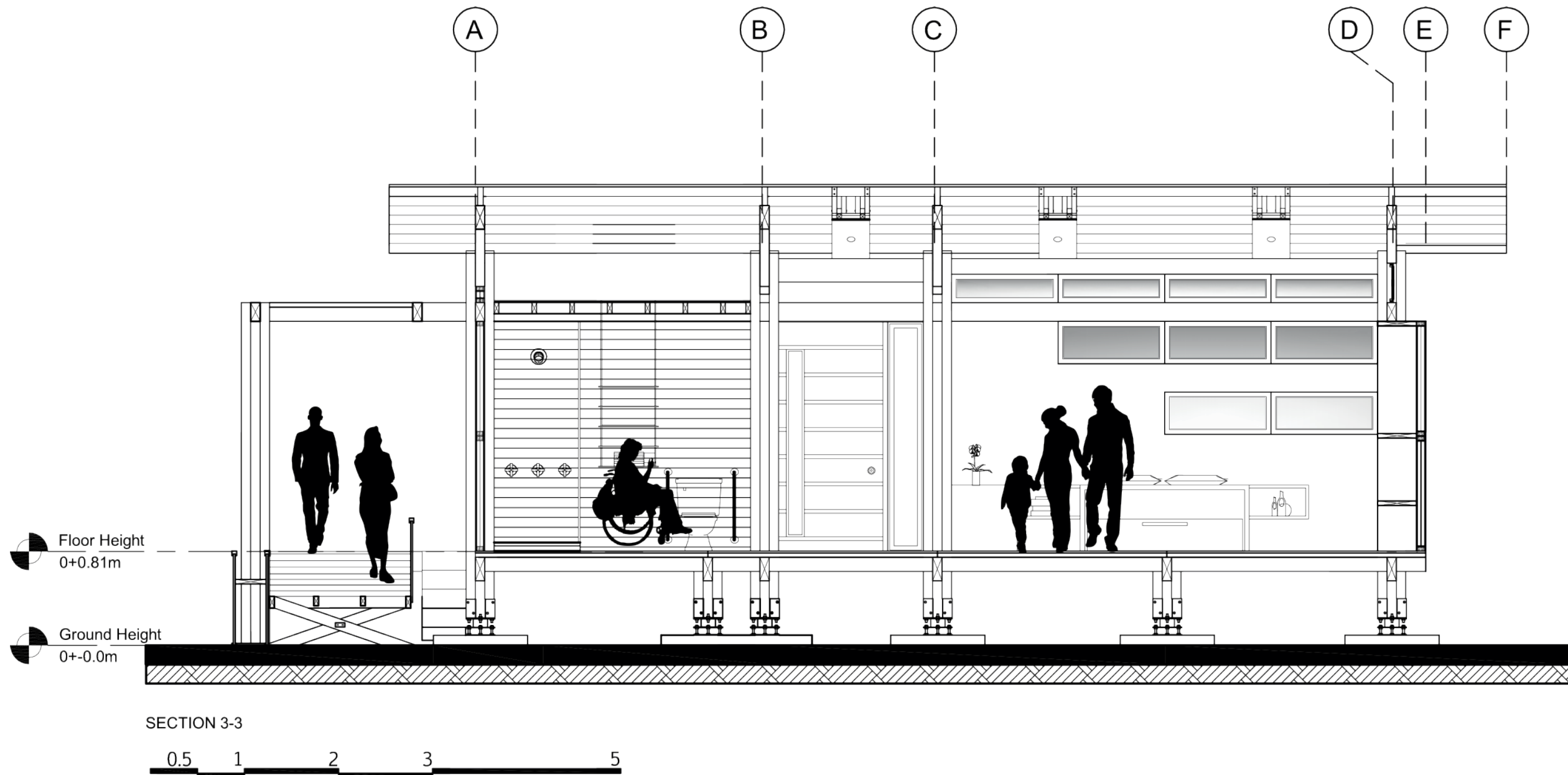
Longitudinal section

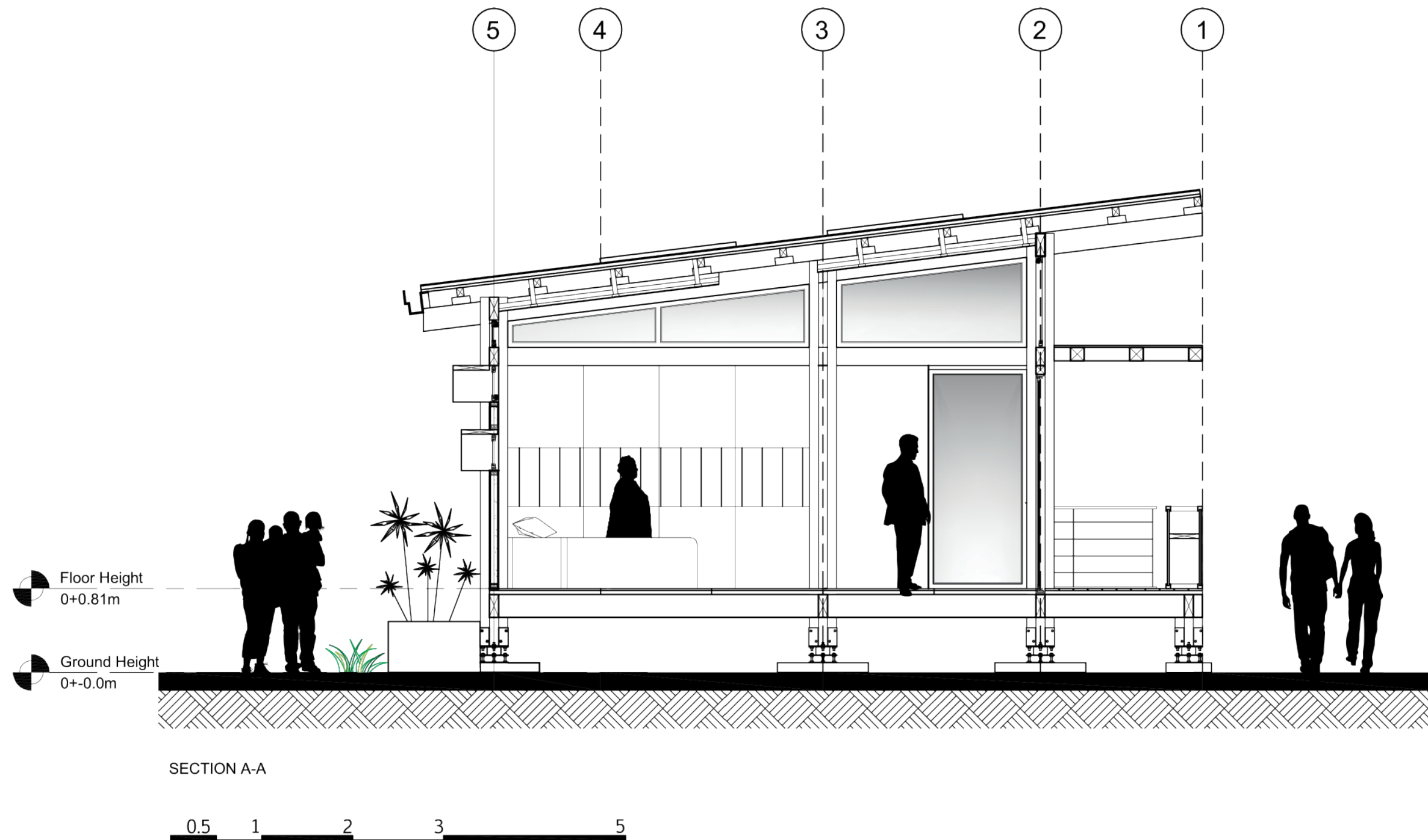
Content: -Section 3-3

Scale: 1:50

Date: 11/3/2014

Code: AR-203







**Deliverable #7**  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

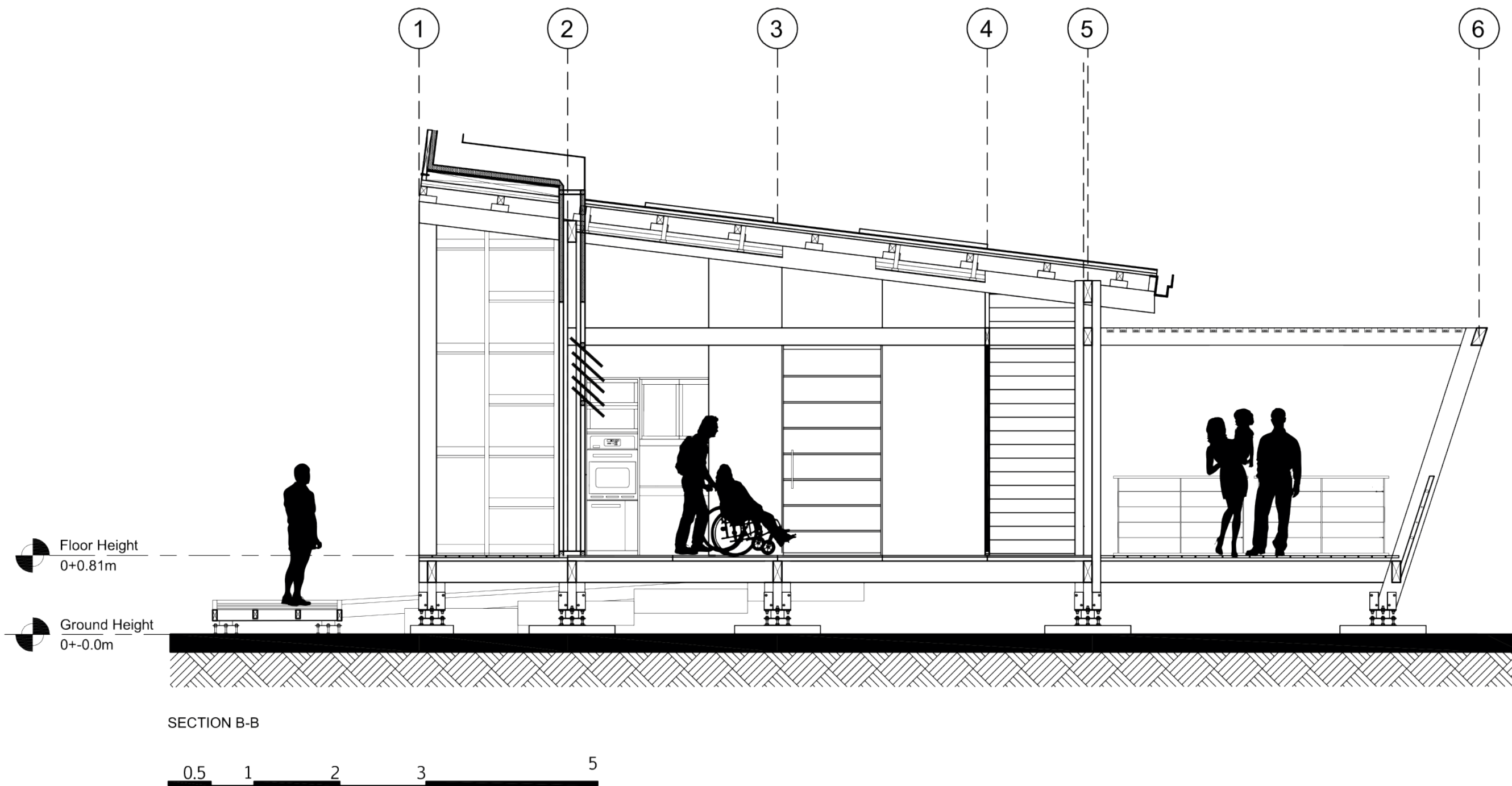
Transversal section

Content: -Section B-B

Scale: 1:50

Date: 11/3/2014

Code: **AR-212**



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

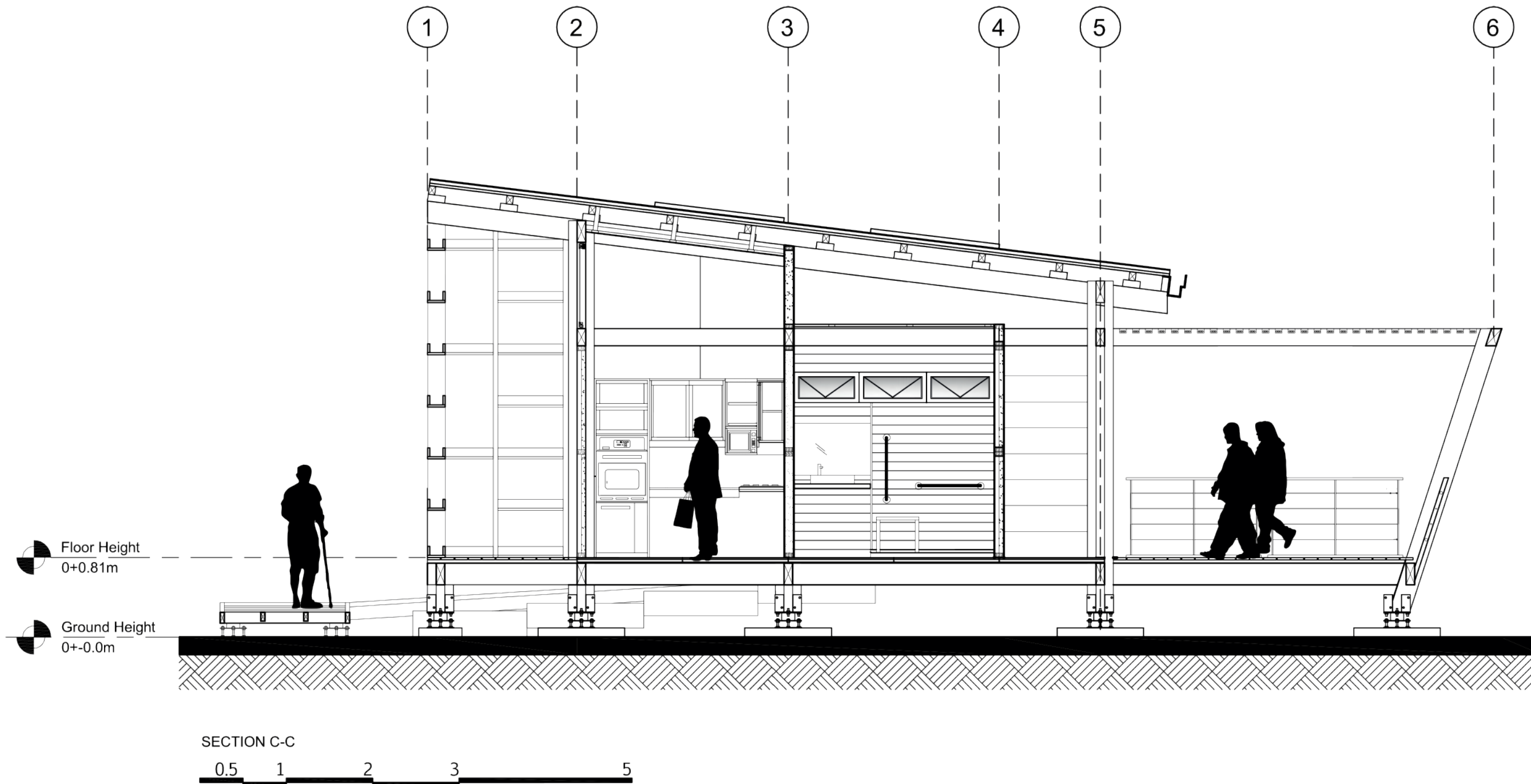
Transversal section

Content: -Section C-C

Scale: 1:50

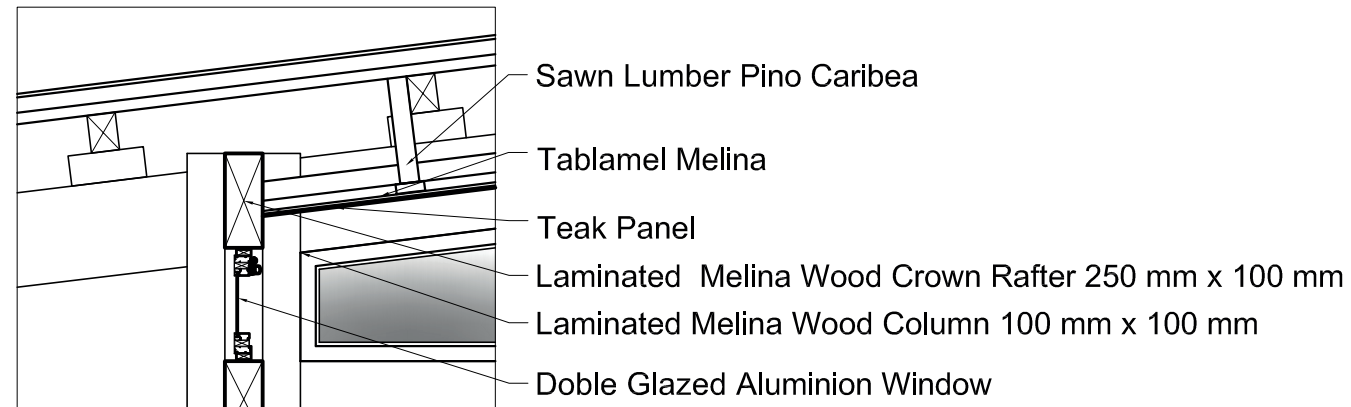
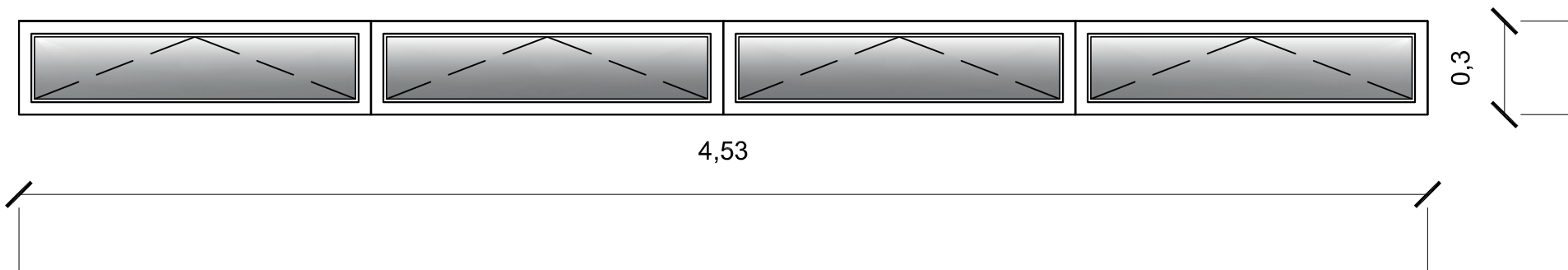
Date: 11/3/2014

Code: AR-213

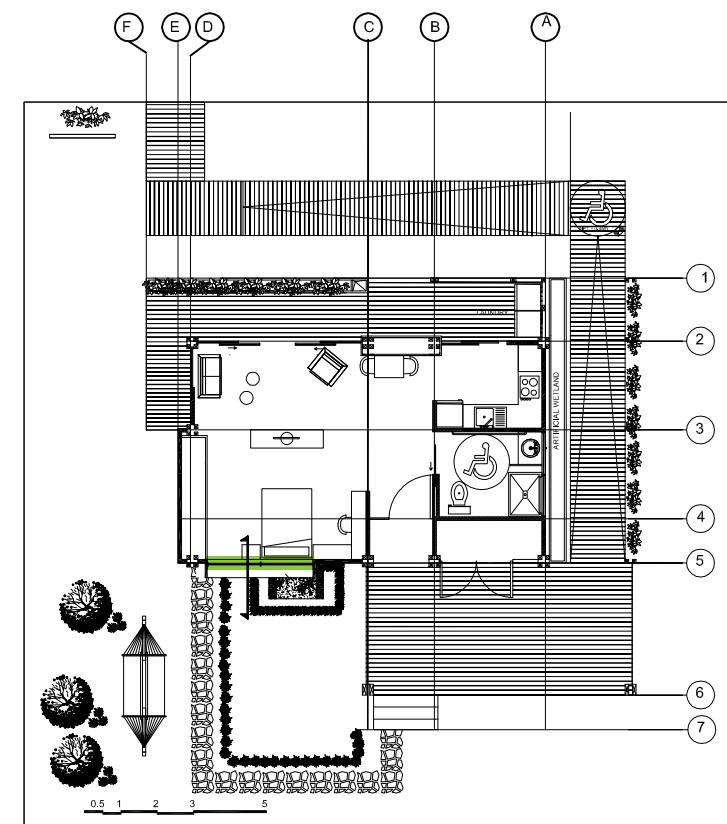




# G1.1: WINDOW DETAILS



G1.1: SECTION



G1.1: LOCATION

Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

Window Schedule and Details

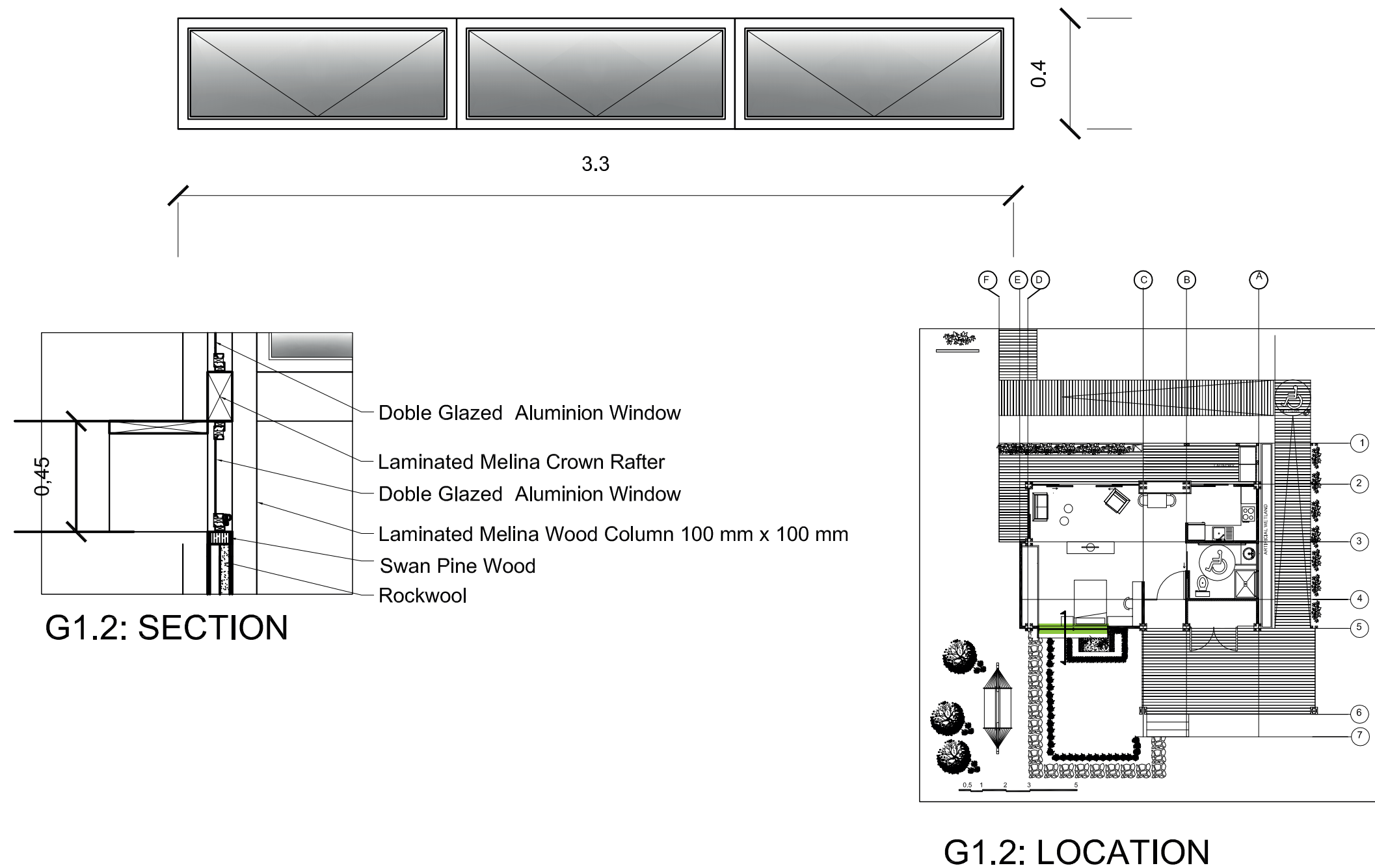
Content: -Window elevation  
-Window section  
-Location

Scale: 1:20

Date: 11/3/2014

Code: AR-301

# G1.2: WINDOW DETAILS



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

Window Schedule and Details

Content: -Window elevation  
-Window section  
-Location

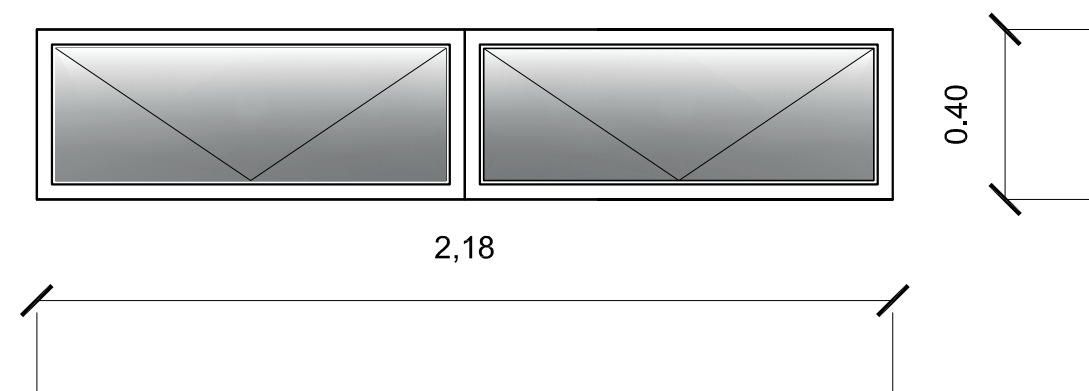
Scale: 1:20

Date: 11/3/2014

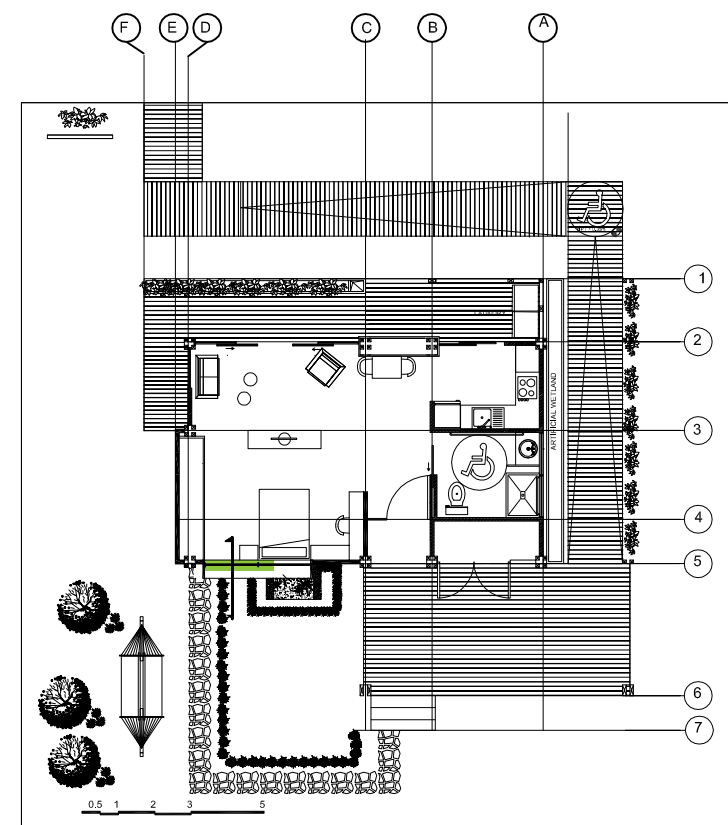
Code: AR-302



# G1.3: WINDOW DETAILS



G1.3: SECTION



G1.3: LOCATION

Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

Window Schedule and Details

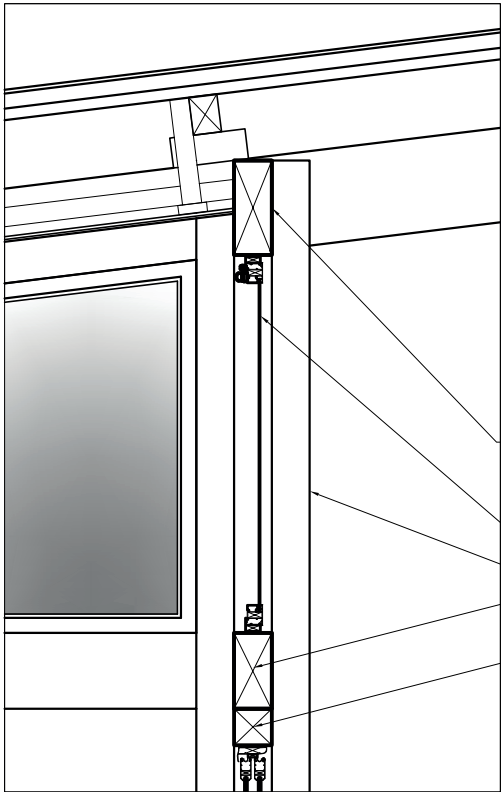
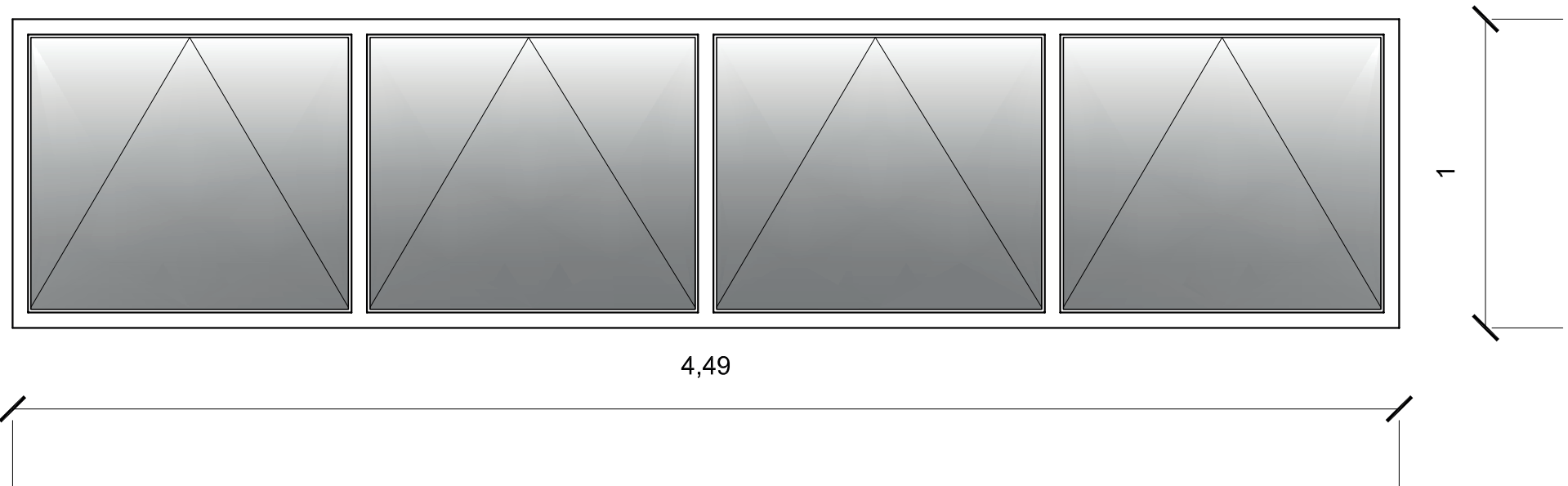
Content: -Window elevation  
-Window section  
-Location

Scale: 1:20

Date: 11/3/2014

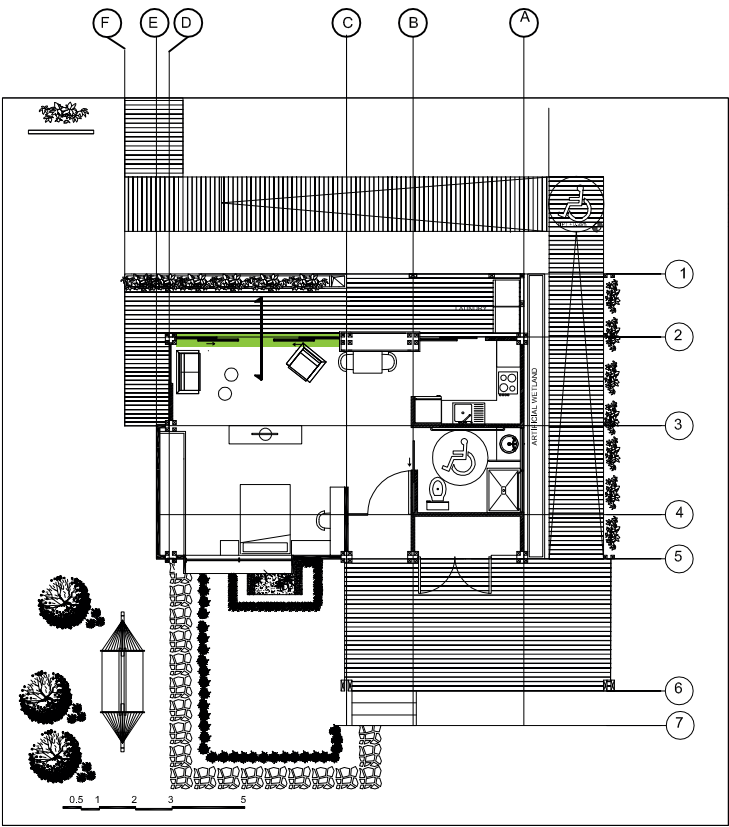
Code: AR-303

# G3: WINDOW DETAILS



- Laminated Melina Wood Crown
- Rafter 200 mm x 100 mm
- Doble Glazed Aluminion Window
- Laminated Melina Wood Column 100 mm x 100 mm
- Laminated Melina Wood Rafter 200 mm x 100 mm
- Pine Wood

G3: SECTION



G3: LOCATION



Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

Window Schedule and Details

Content: -Window elevation  
-Window section  
-Location

Scale: 1:20

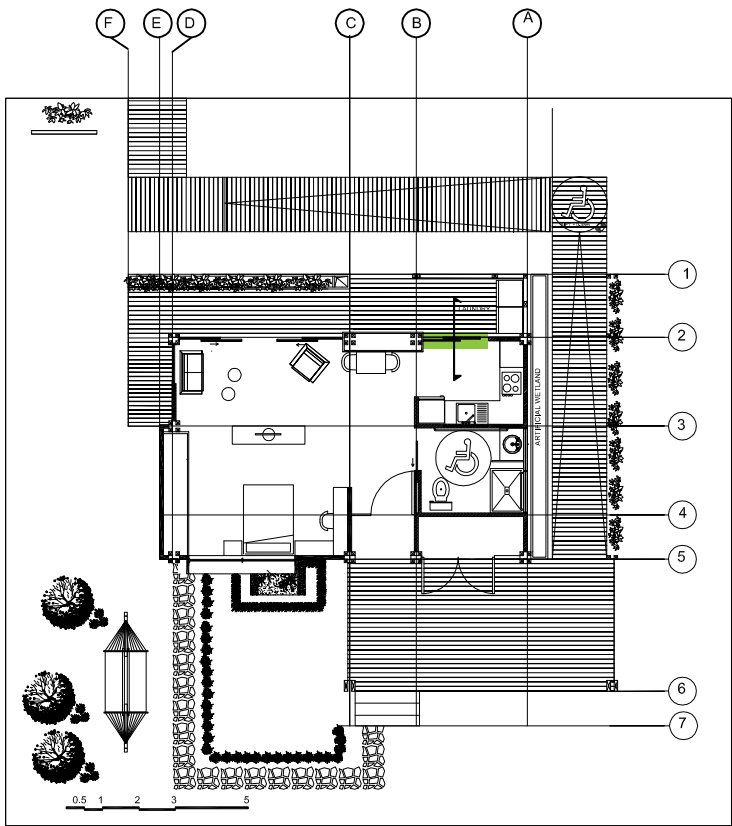
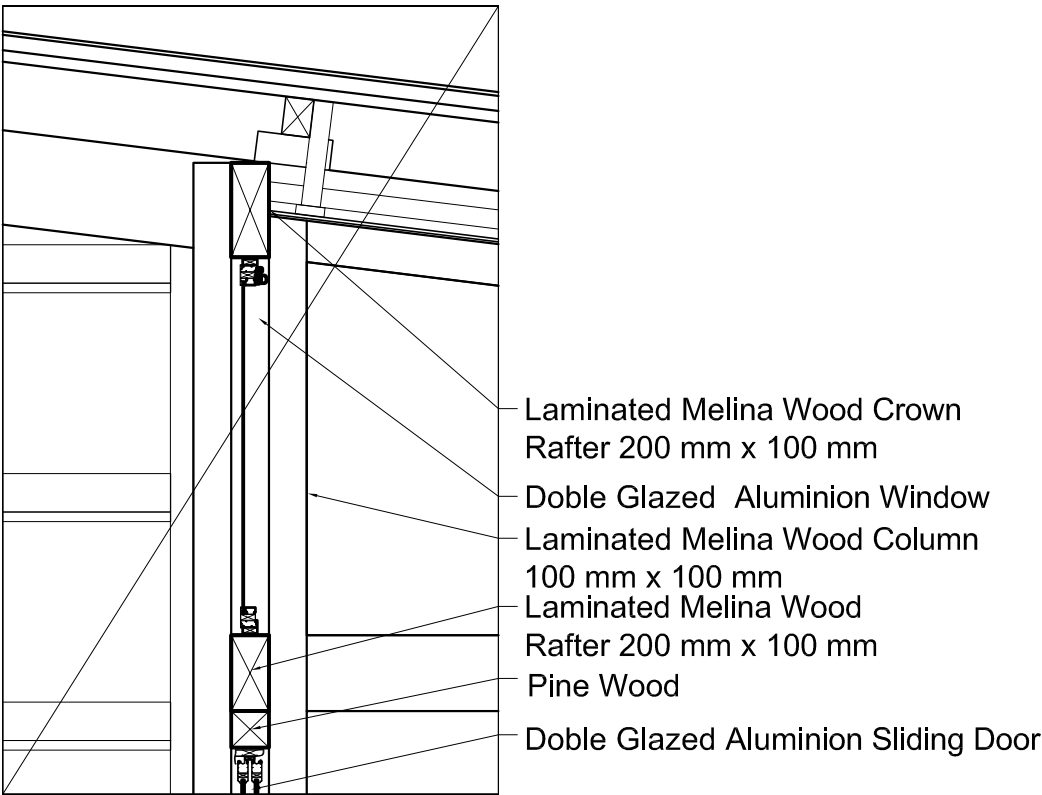
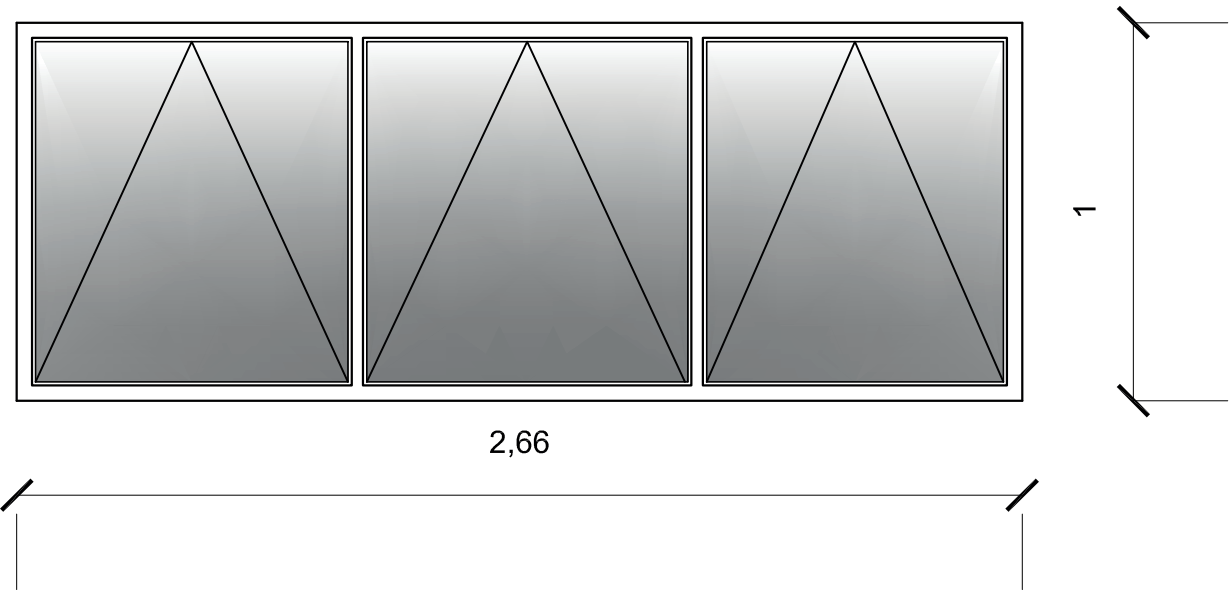
Date: 11/3/2014

Code:

AR-304



# G4: WINDOW DETAILS



G4: LOCATION

Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

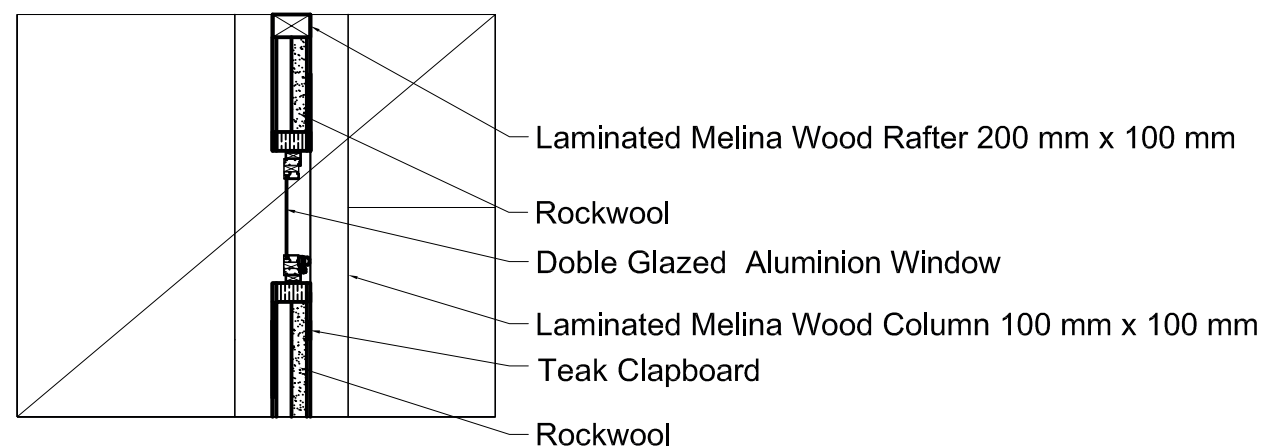
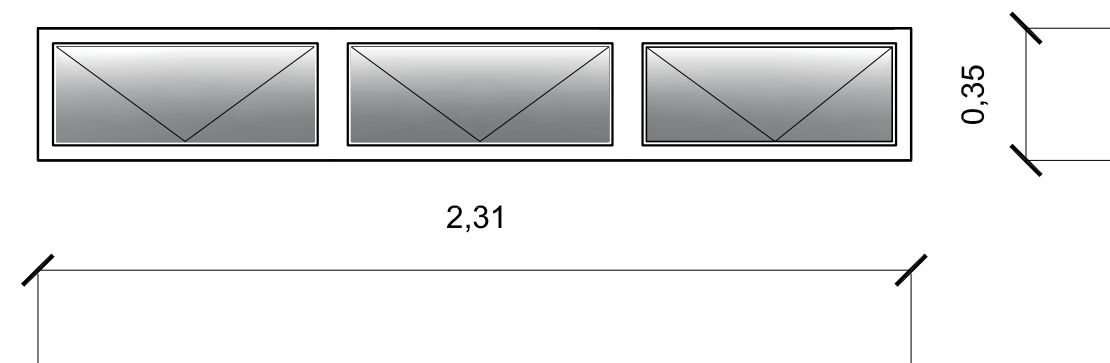
Window Schedule and Details

-Window elevation  
-Window section  
-Location

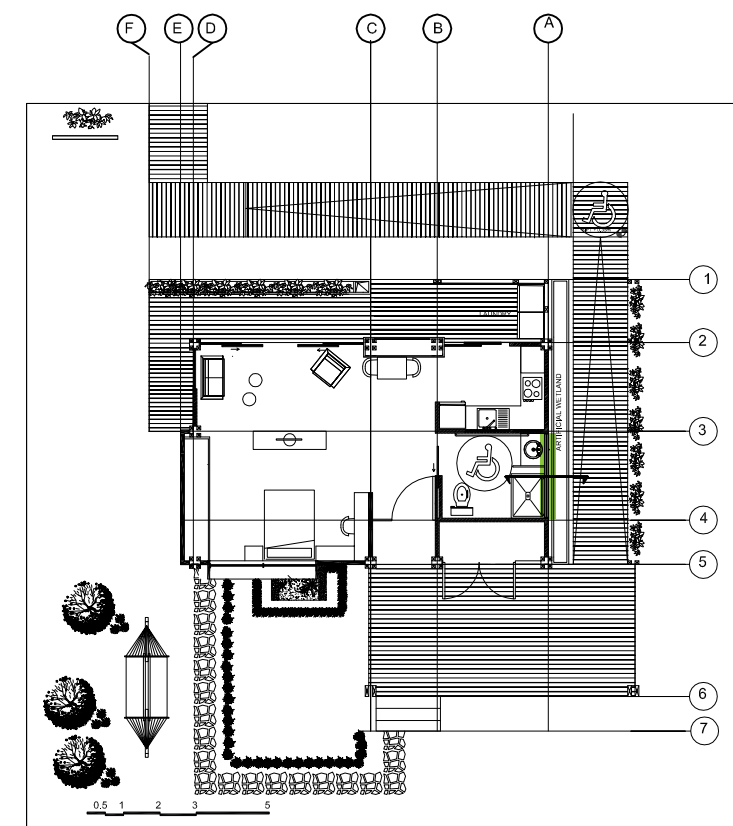
Scale: 1:20 Date: 11/3/2014

Code: AR-305

# G5: WINDOW DETAILS



G5: SECTION



G5: LOCATION

Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

Window Schedule and Details

Content: -Window elevation  
-Window section  
-Location

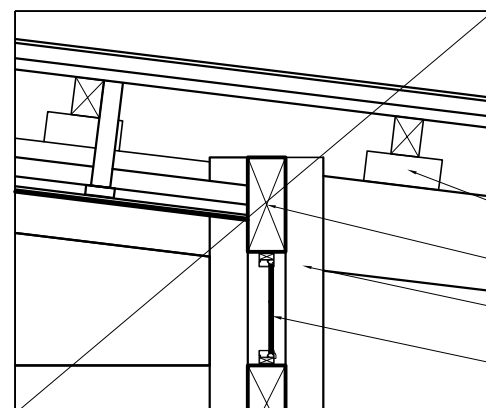
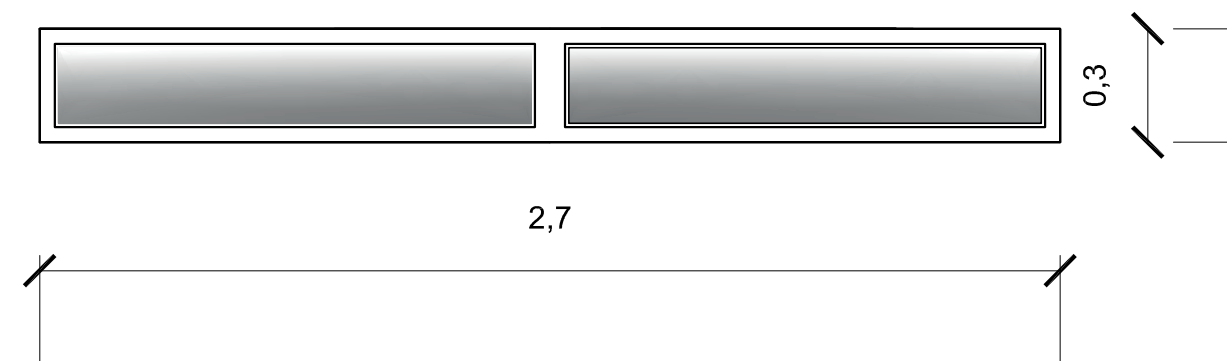
Scale: 1:20

Date: 11/3/2014

Code: AR-306

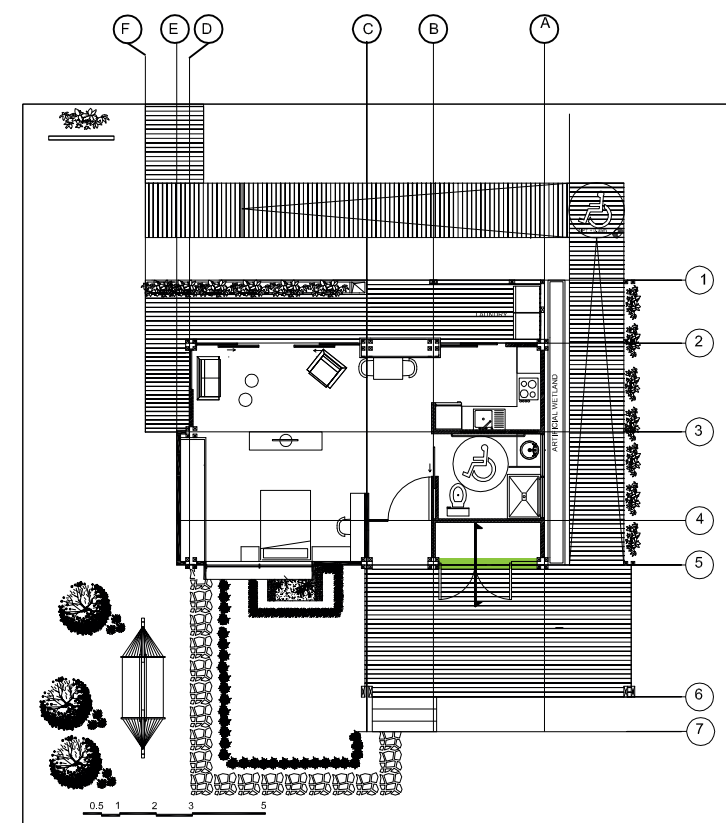


# G6: WINDOW DETAILS



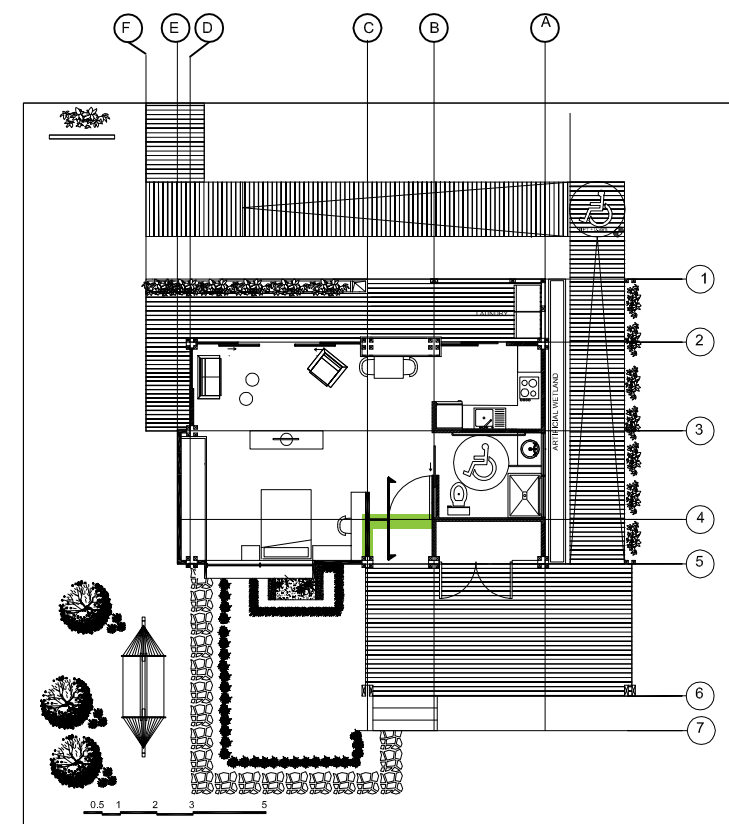
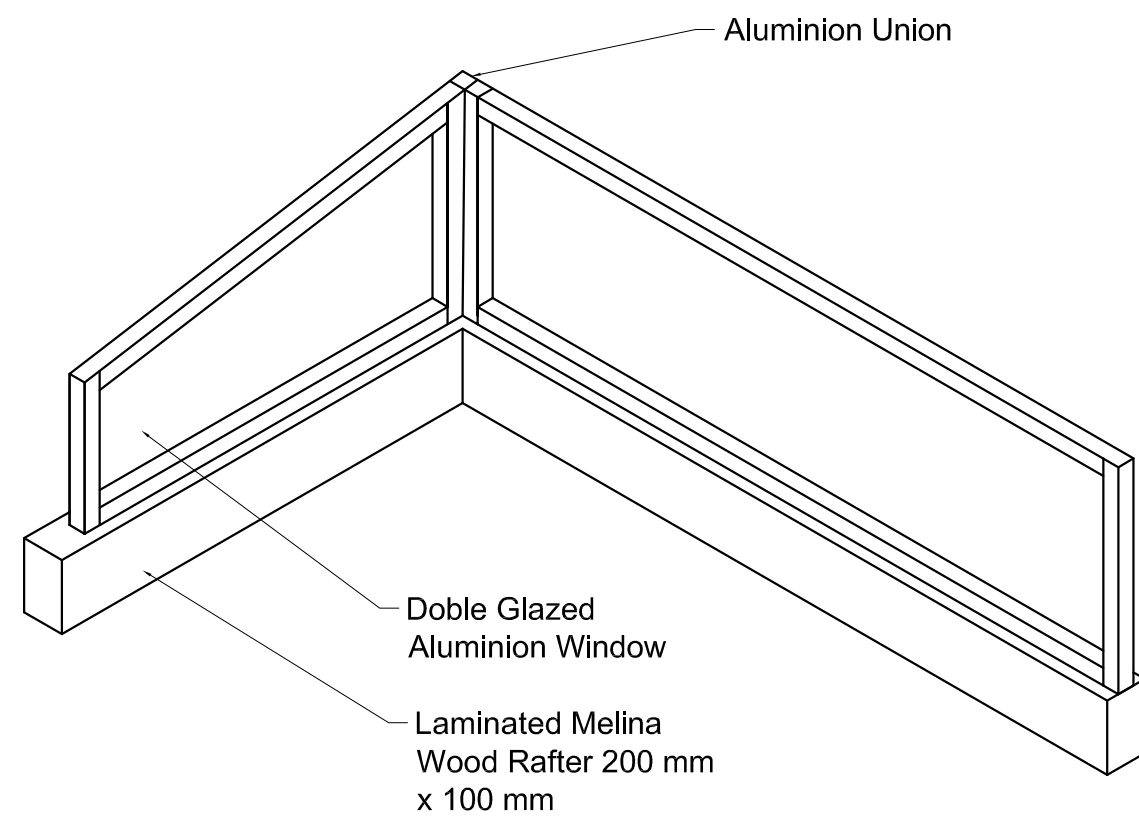
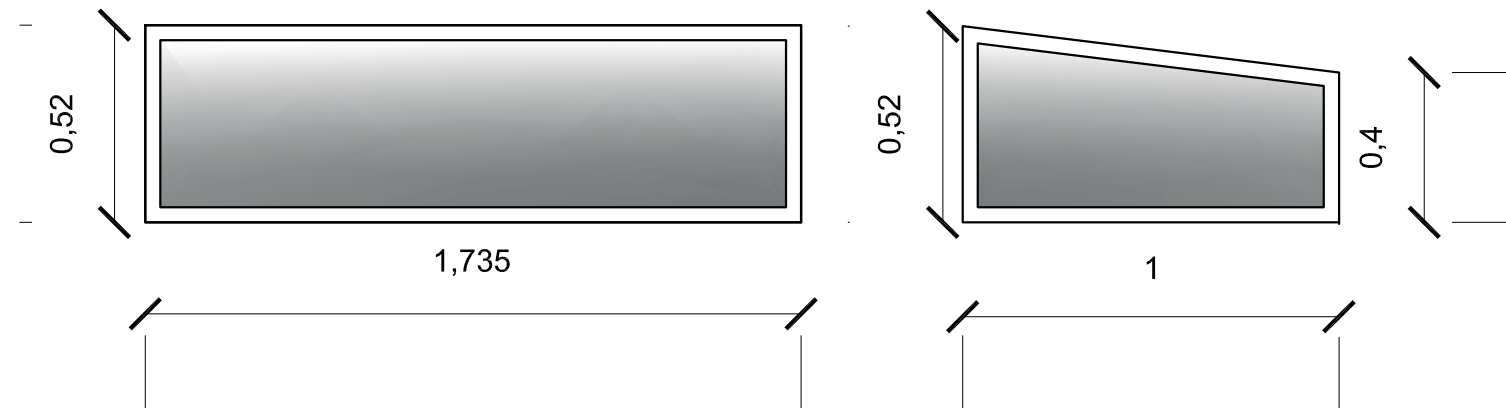
G6: SECTION

- Sawn Lumber Pino Caribe
- Laminated Melina Wood Rafter 250 mm x 100 mm
- Laminated Melina Wood Column 100 mm x 100 mm
- Doble Glazed Aluminion Window



G6: LOCATION

# G7 and G7.1: WINDOW DETAILS



G7: LOCATION

Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

Window Schedule and Details

Content: -Window elevation  
-Window section  
-Location

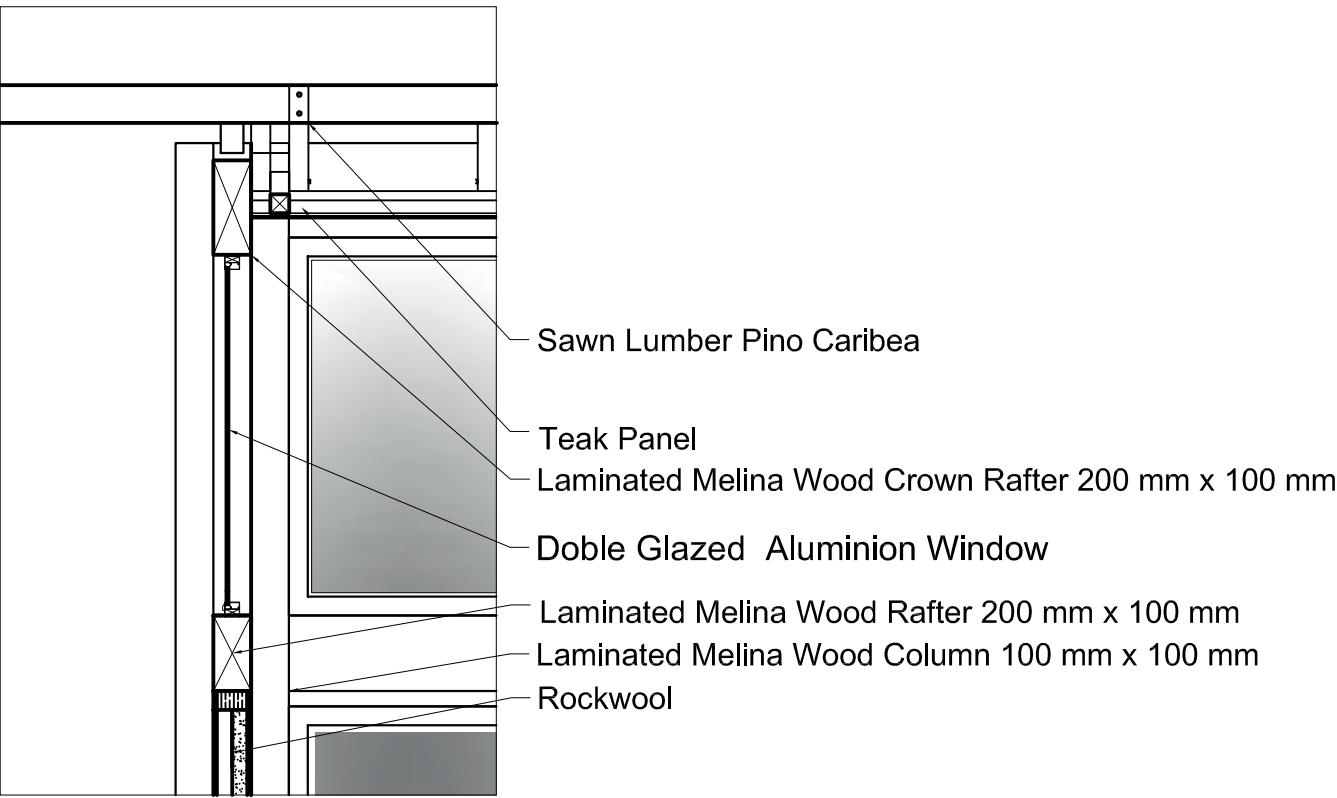
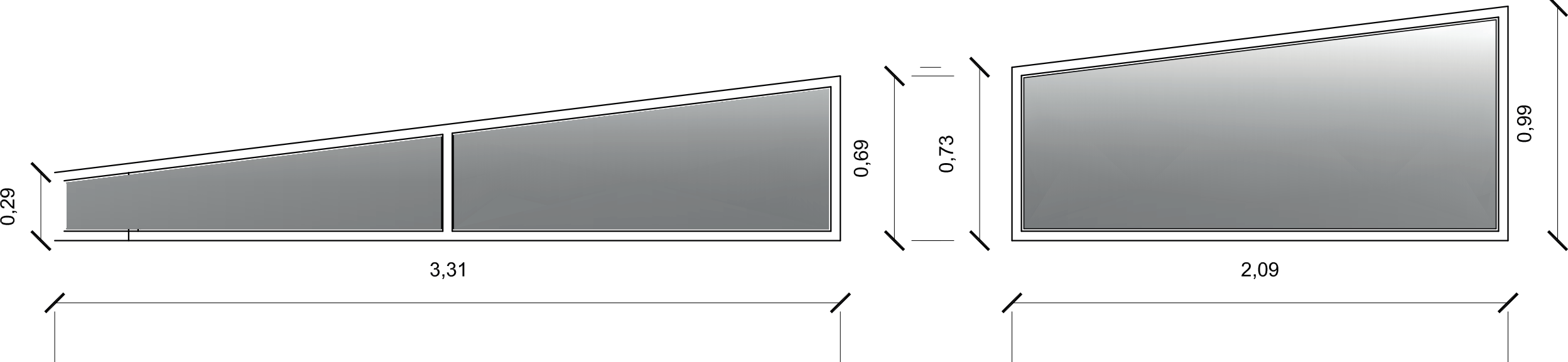
Scale: 1:20

Date: 11/3/2014

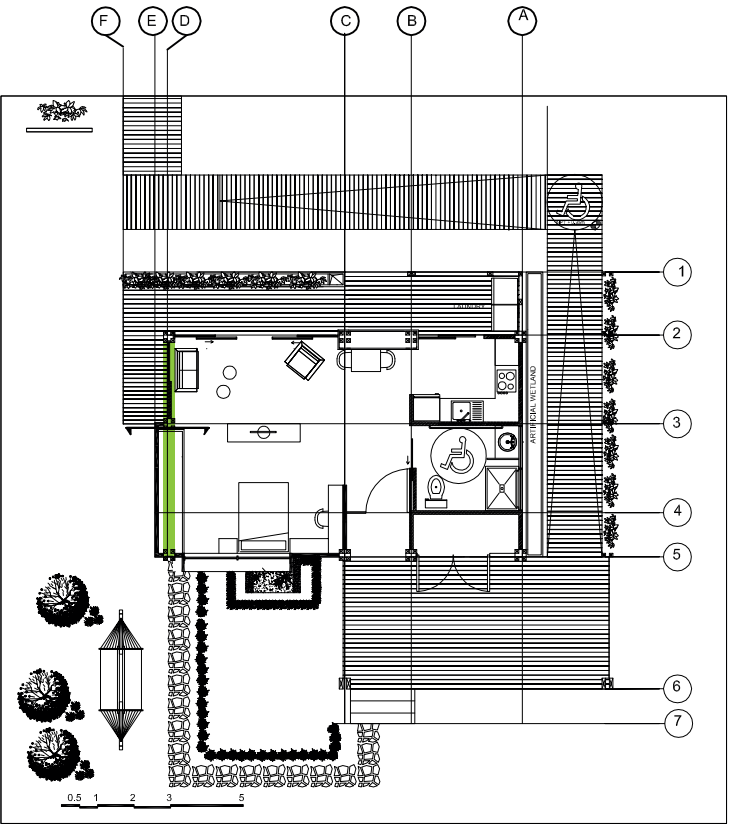
Code: AR-308



# G2 and G2.1: WINDOW DETAILS

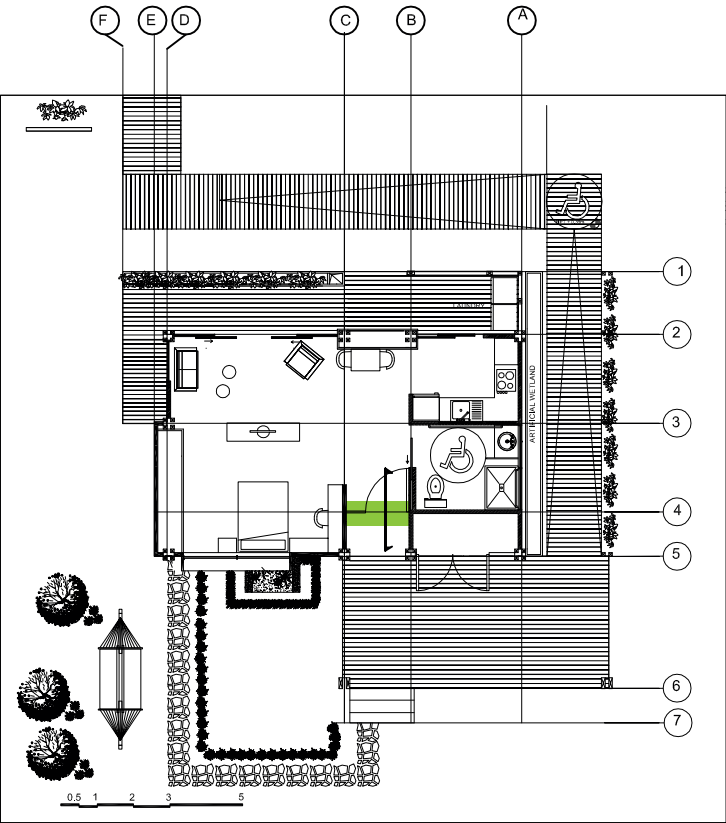
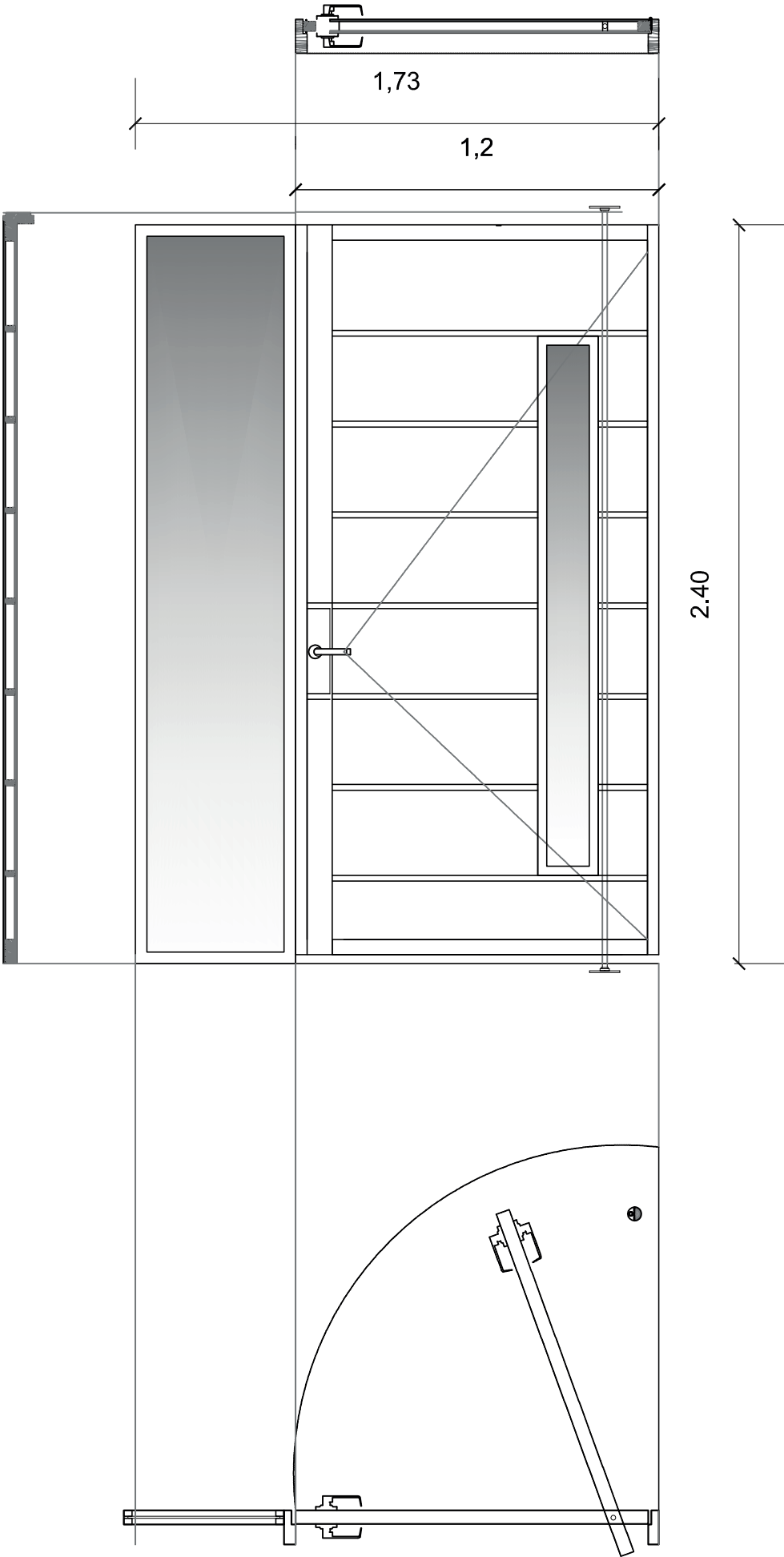


G2/G2.1: SECTION




G2/G2.1: LOCATION

P1: DOOR DETAIL



P1: LOCATION





Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of architecture

Sheet title  
Door Schedule and Details

Content: -Door detail  
-Location

Scale: 1:20

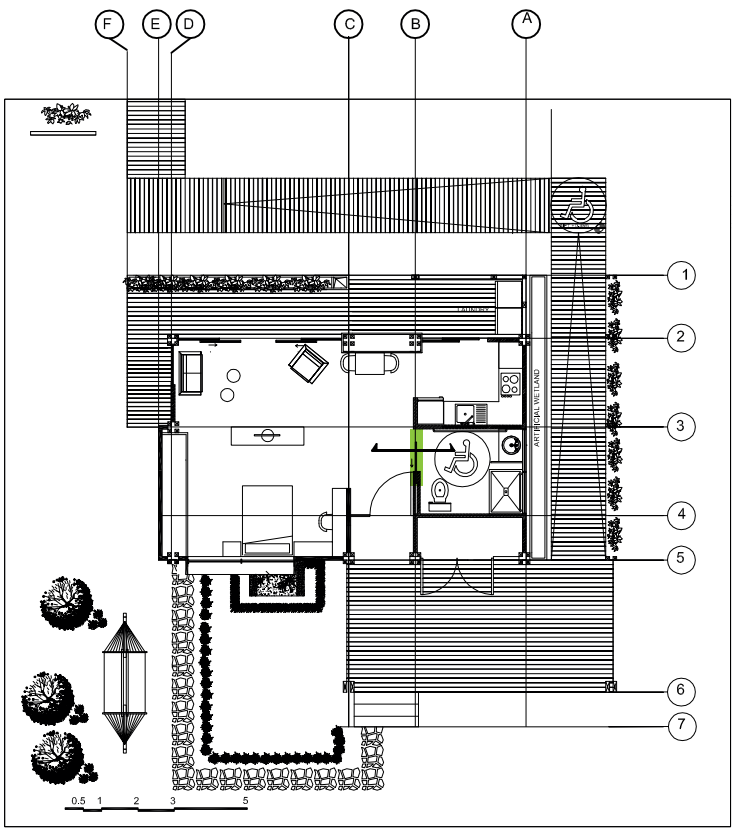
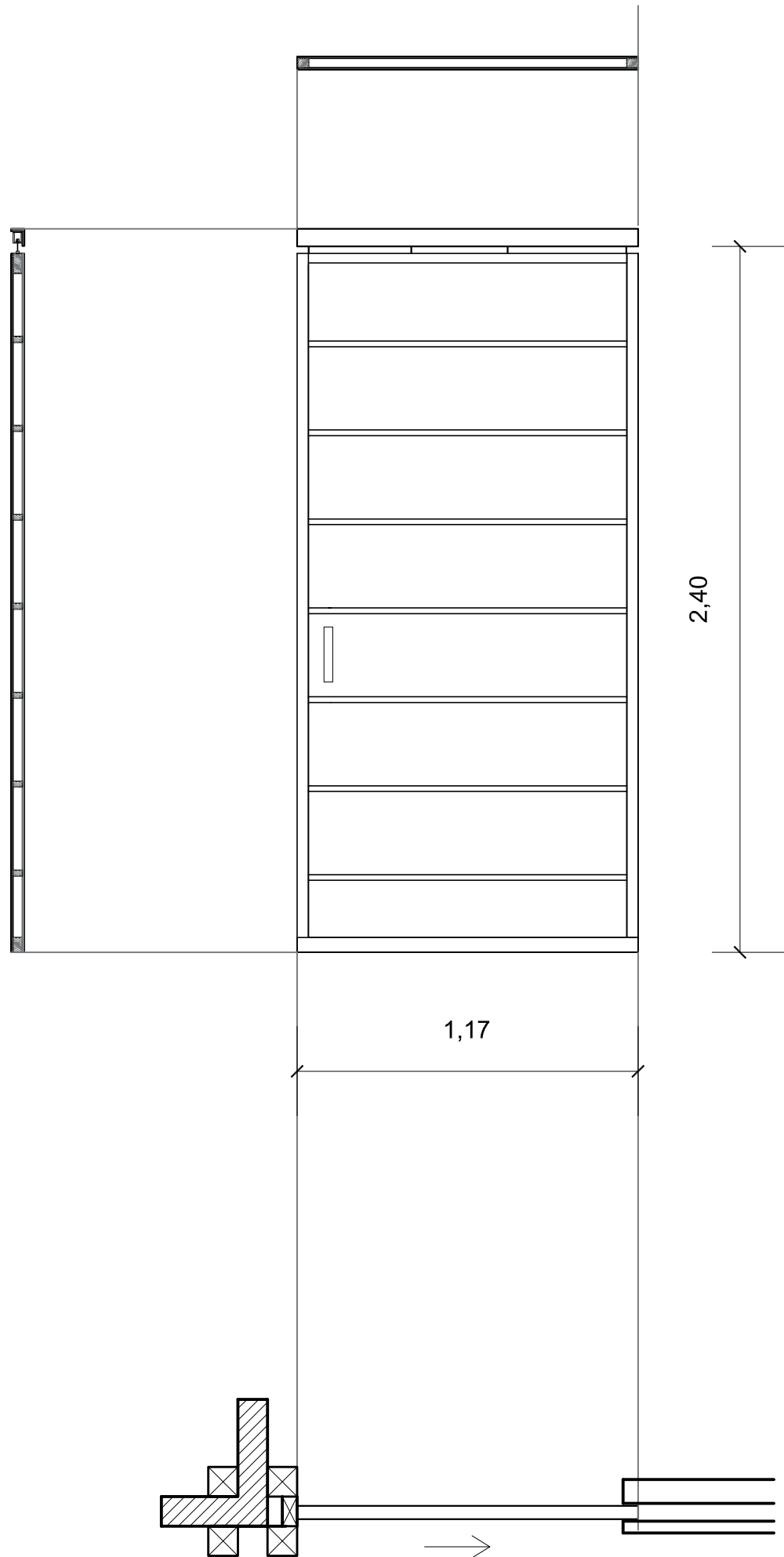
Date: 11/3/2014

Code:

AR-311



P2: DOOR DETAIL



P2: LOCATION



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

Door Schedule and Details

Content: -Door detail  
-Location

Scale: 1:20

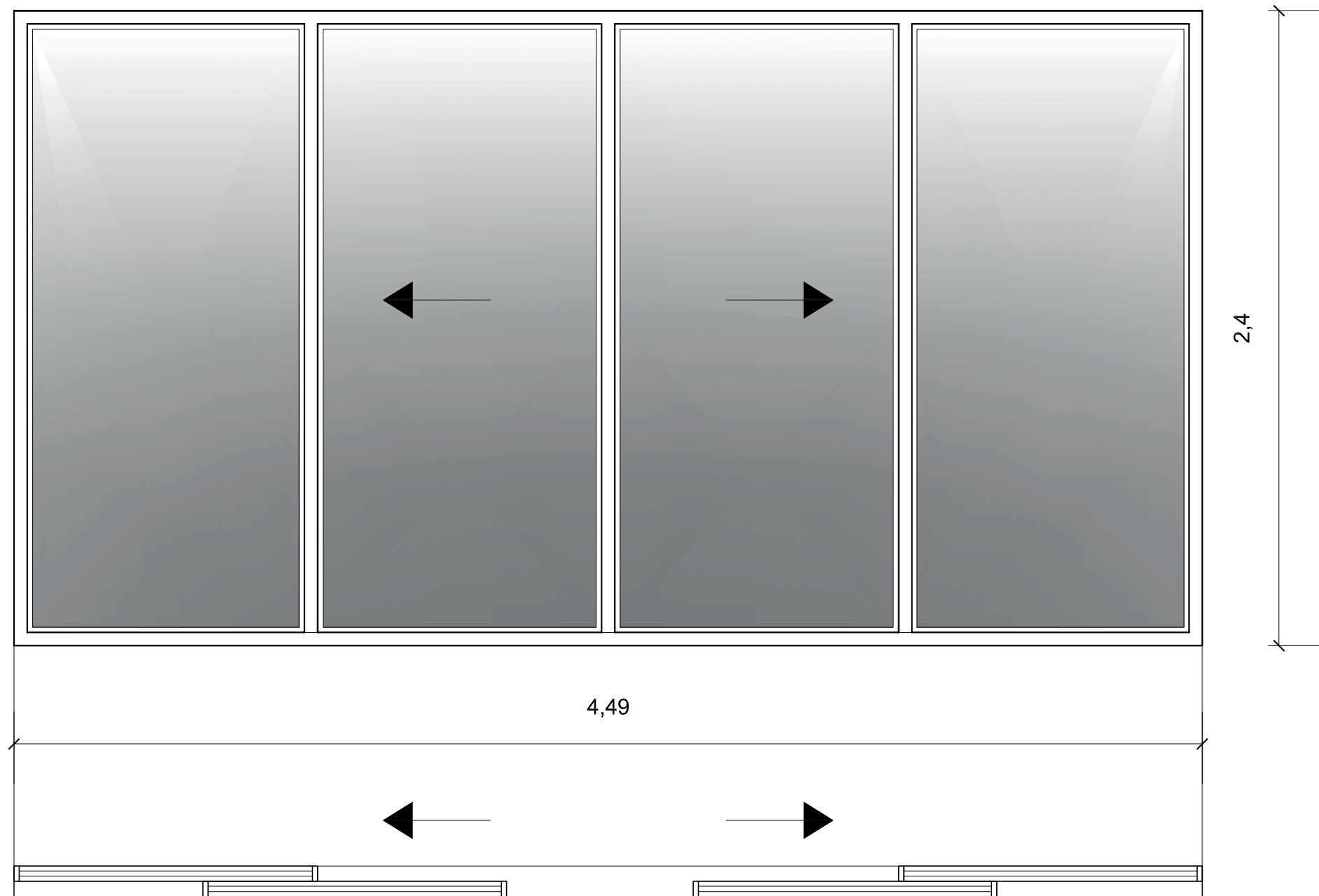
Date: 11/3/2014

Code:

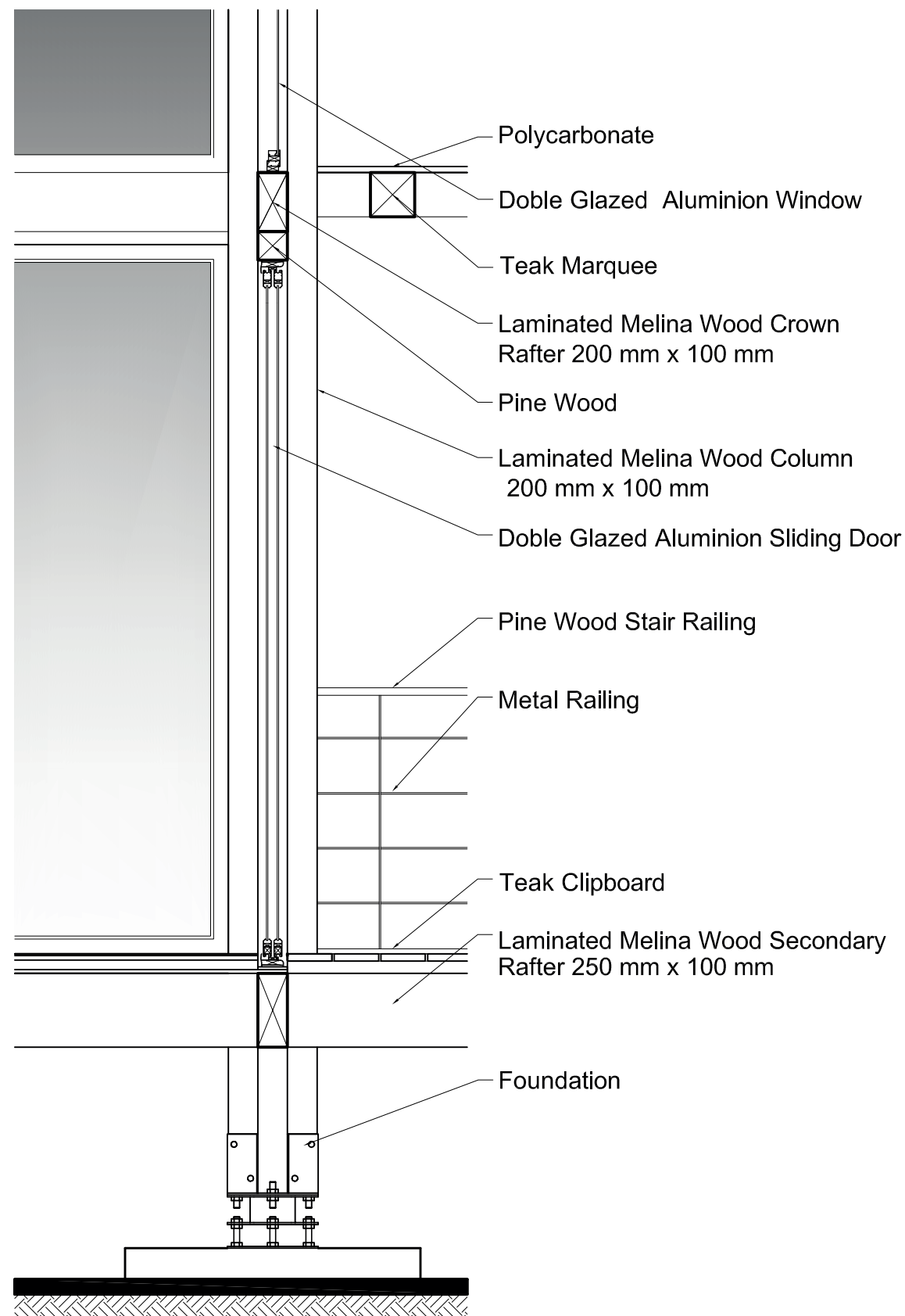
AR-312

Deliverable #7 Project Drawings	
Project: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
Made by: Department of architecture	
Sheet title Door Schedule and Details	
Content: -Door elevation	
Scale: 1:20	Date: 11/3/2014
Code: AR-313	

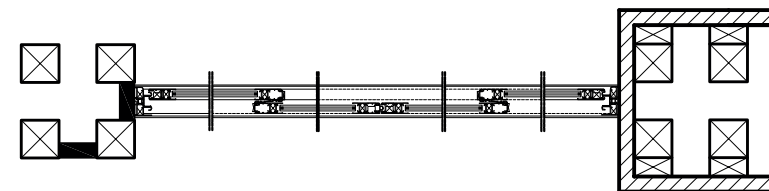
# P3: DOOR DETAIL



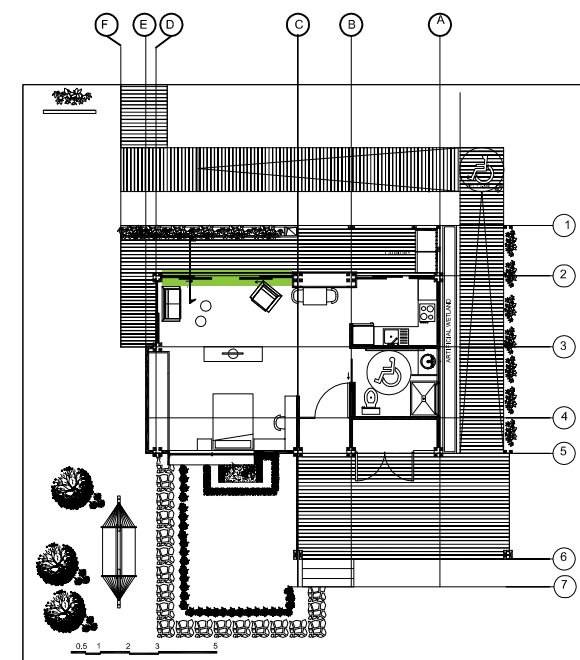




P3: SECTION

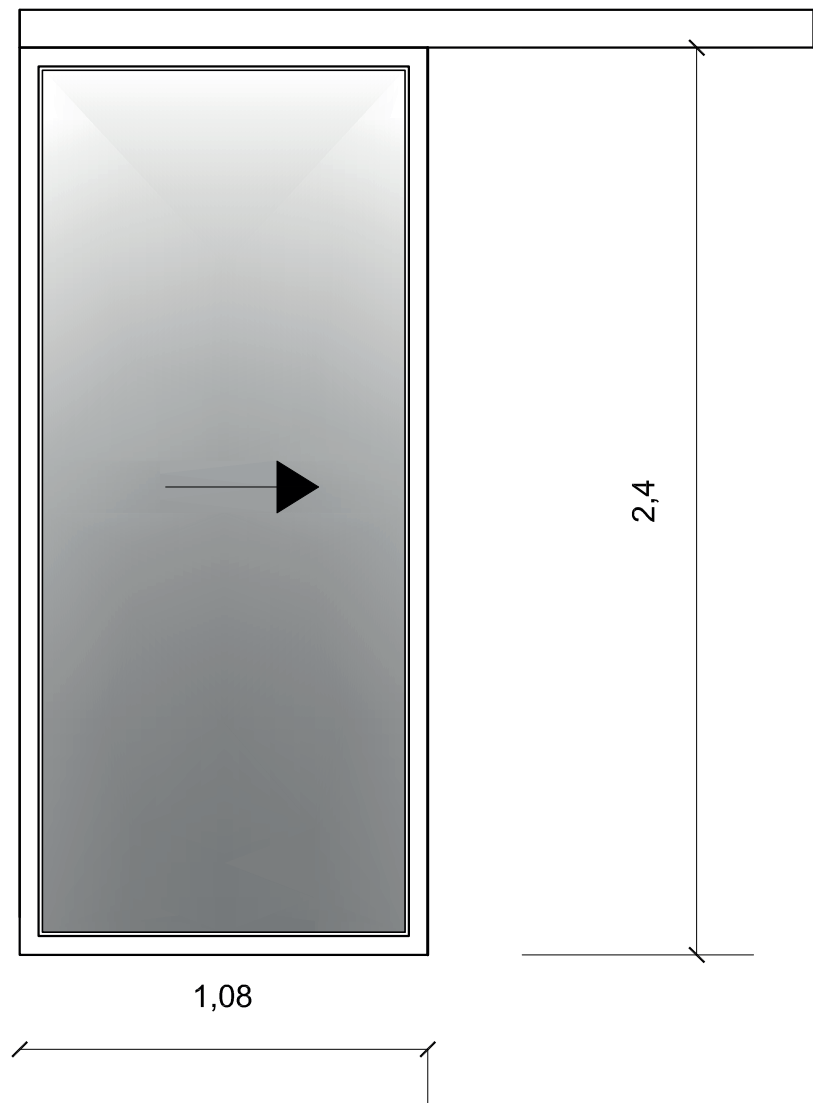


P3: Section Detail

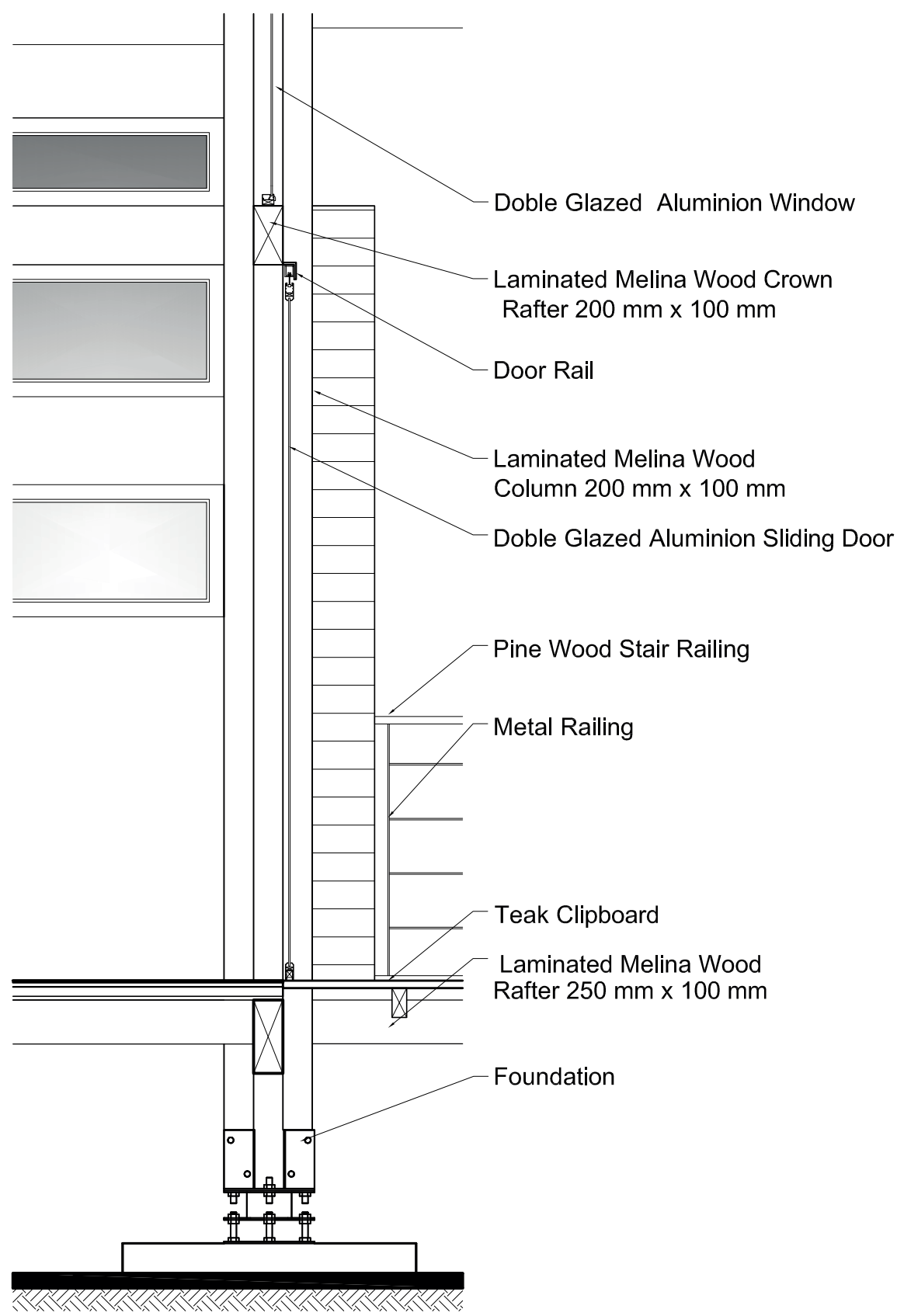


P3: LOCATION

P4: DOOR DETAIL



P4: LOCATION



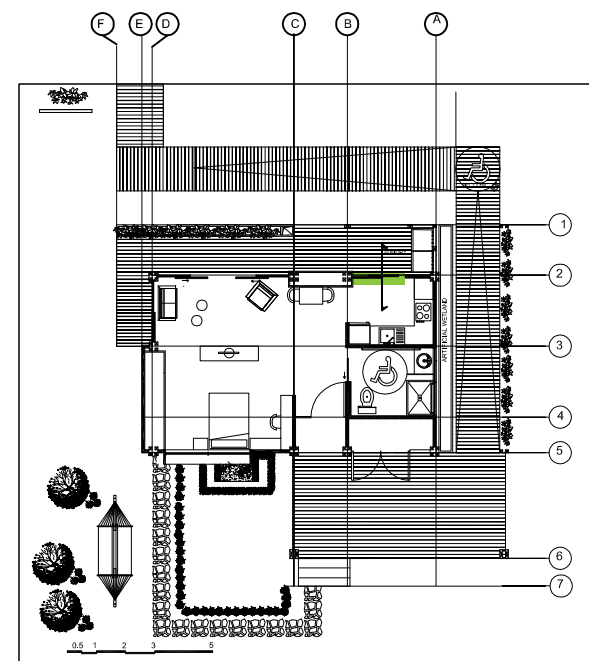
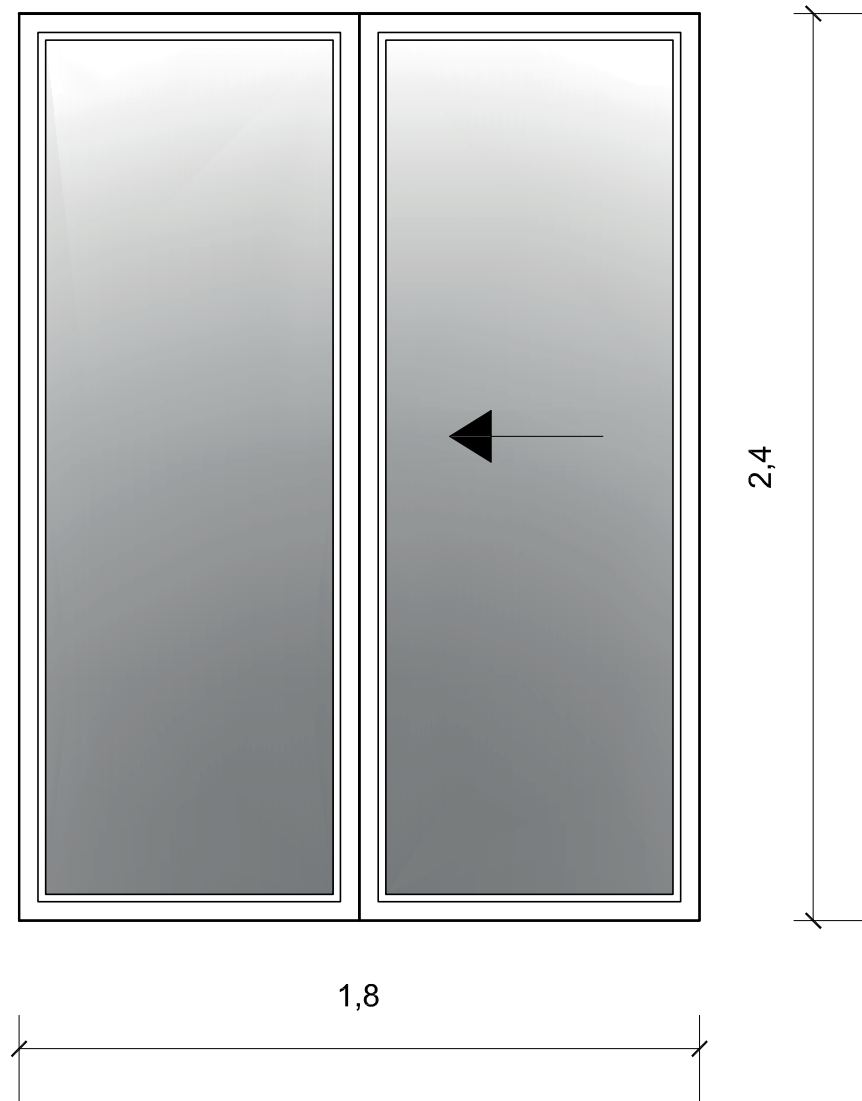
P4: SECTION



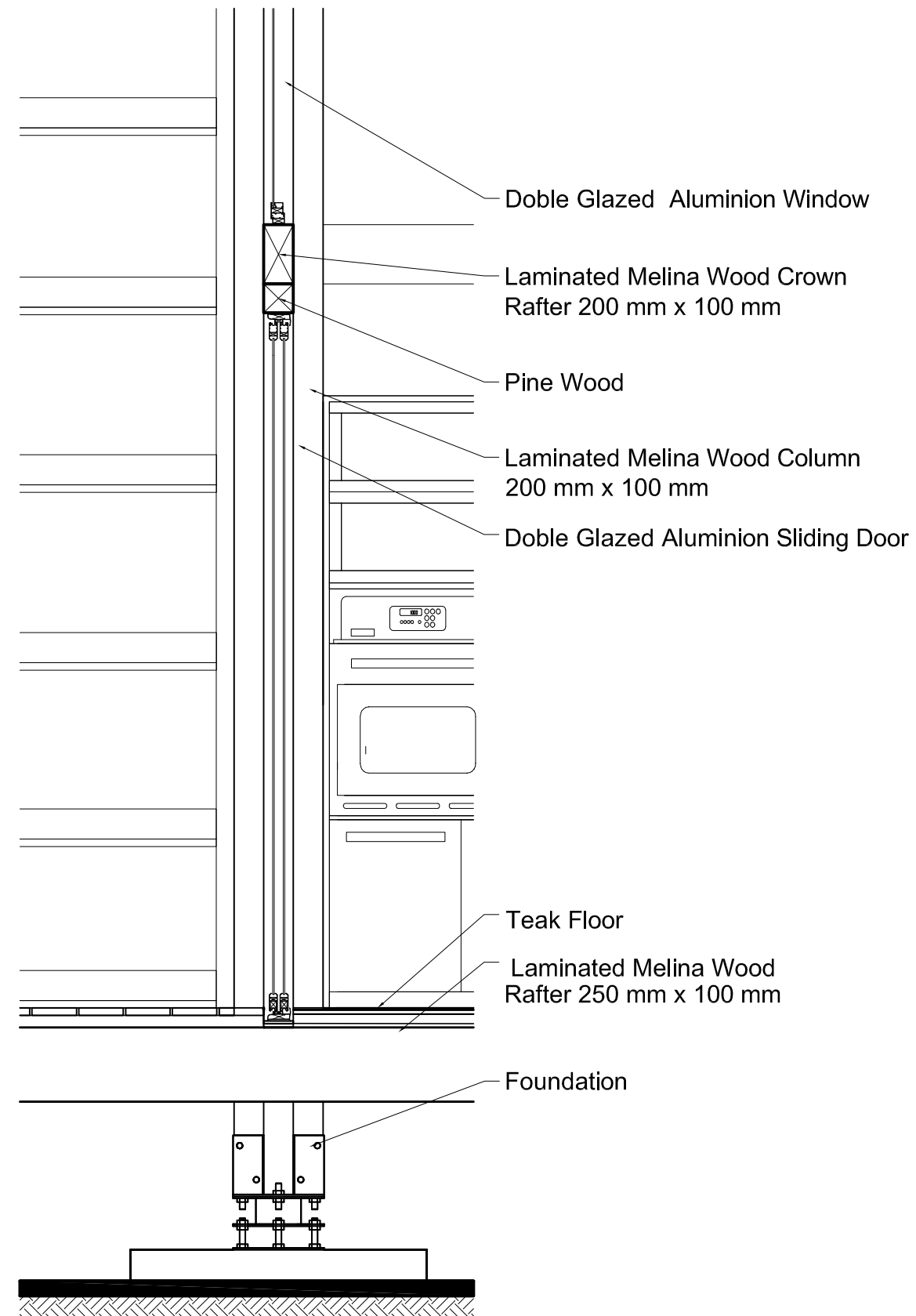
Deliverable #7 Project Drawings	
Proyect: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
Made by: Department of architecture	
Sheet title Door Schedule and Details	
Content: -Door elevation -Door section -Location	
Scale: 1:20	Date: 11/3/2014
Code: AR-315	



# P5: DOOR DETAIL

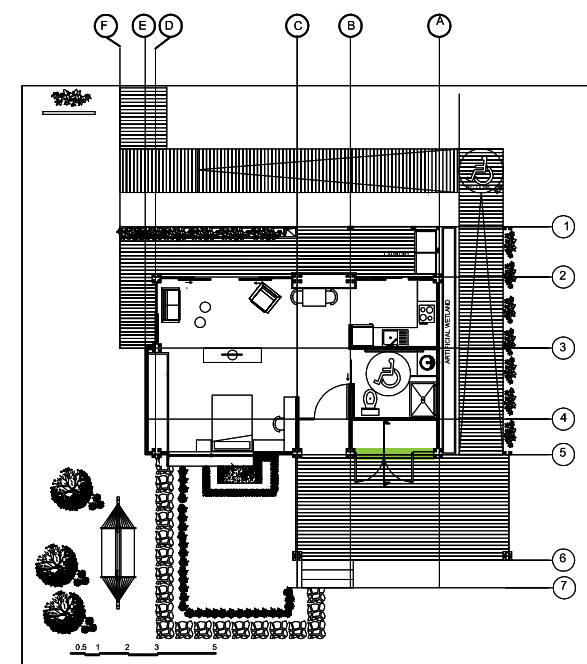
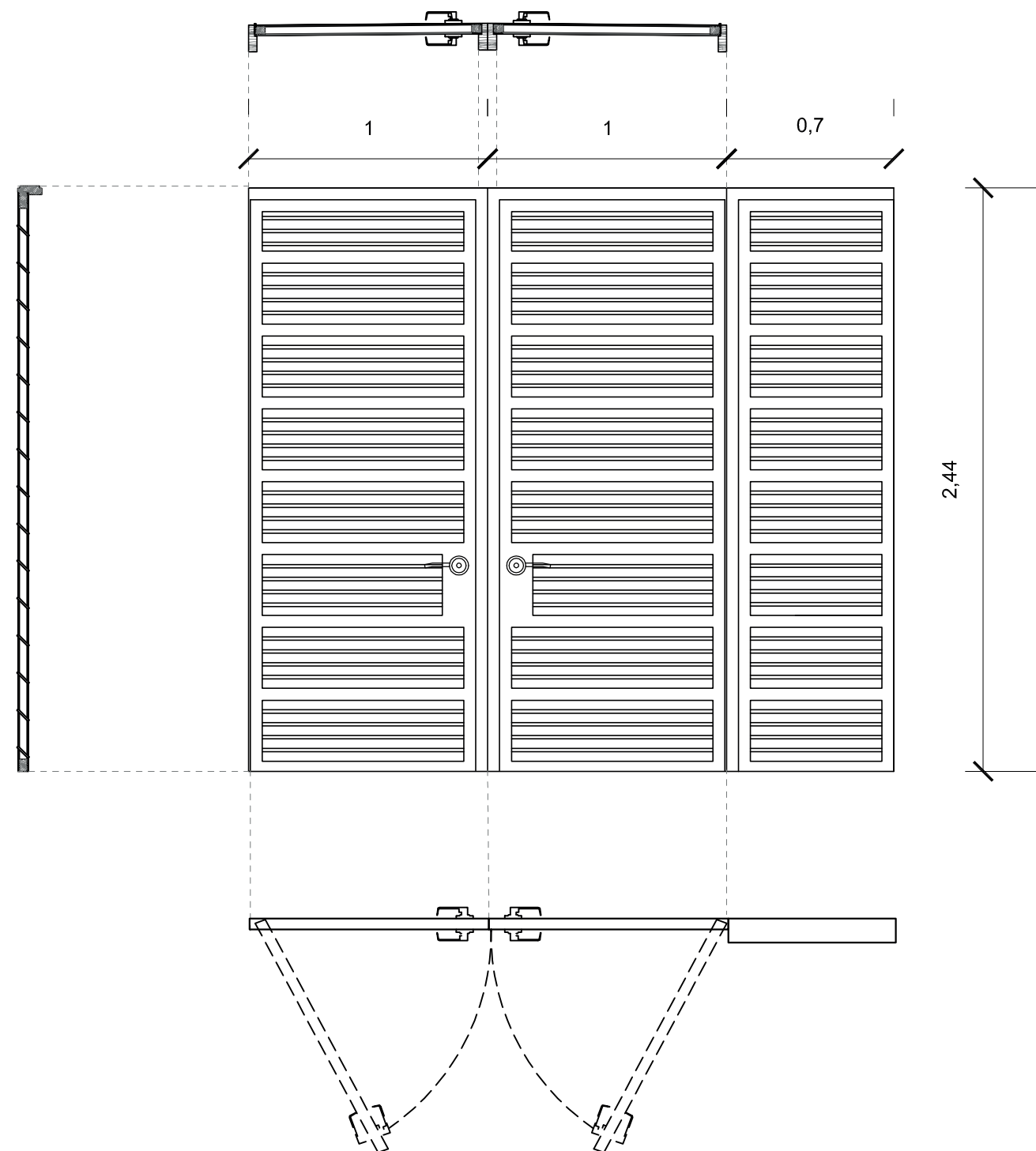


# P5: LOCATION

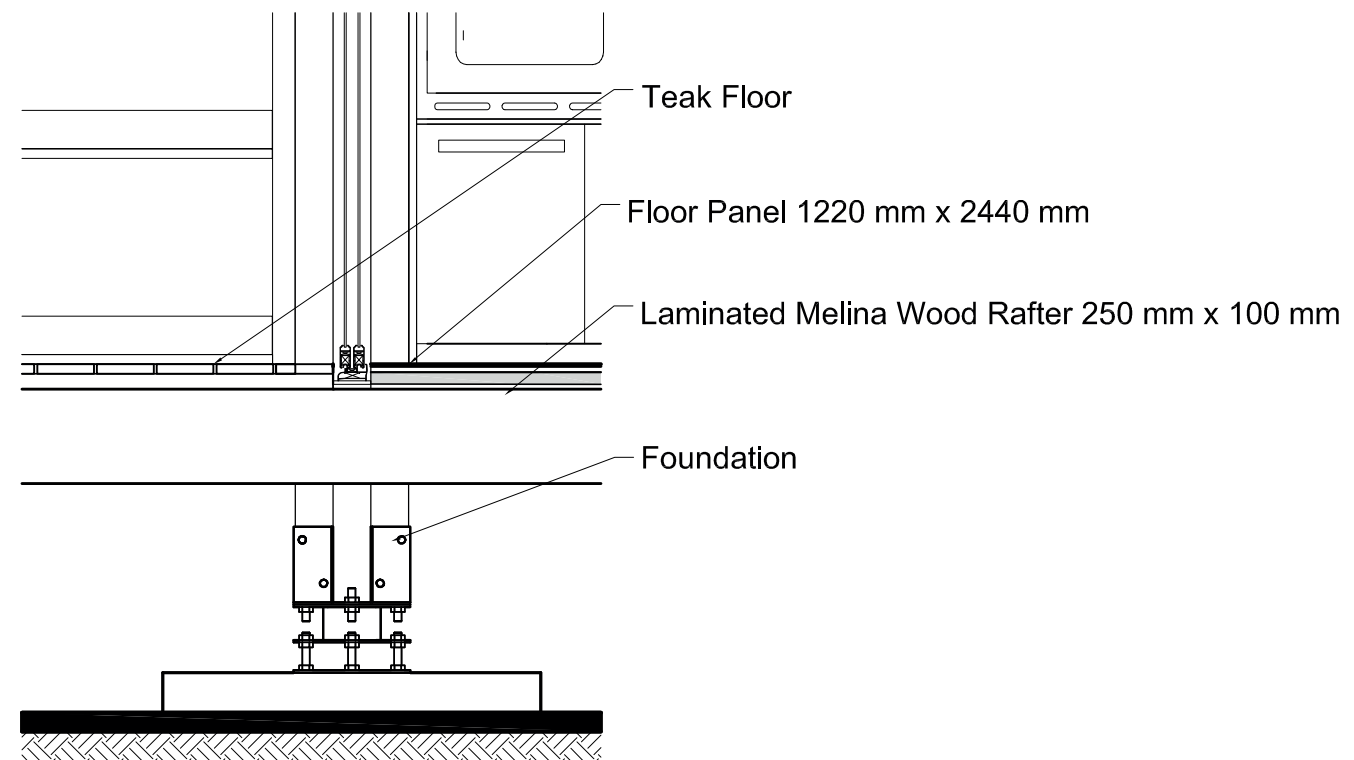


# P5: SECTION

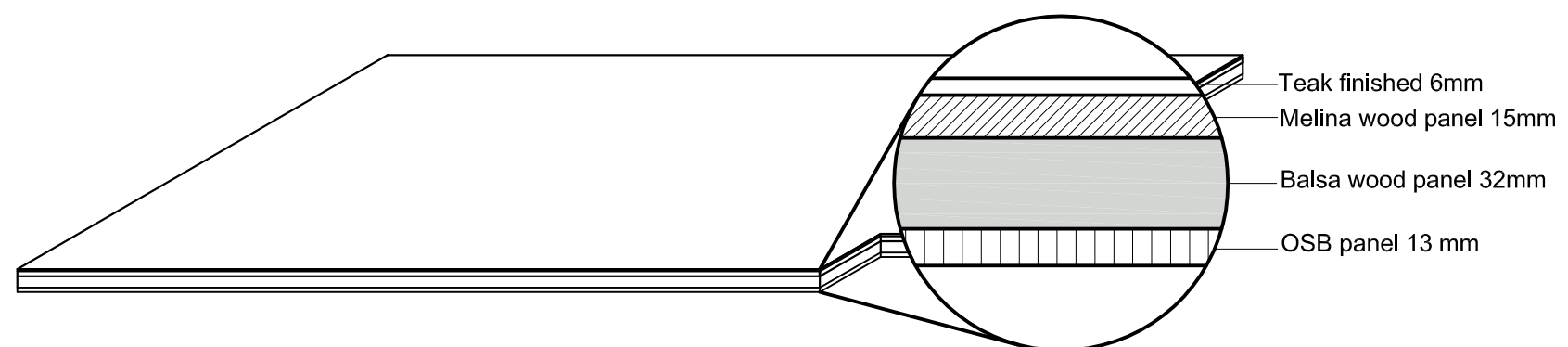
# P6: DOOR DETAIL



P6: LOCATION

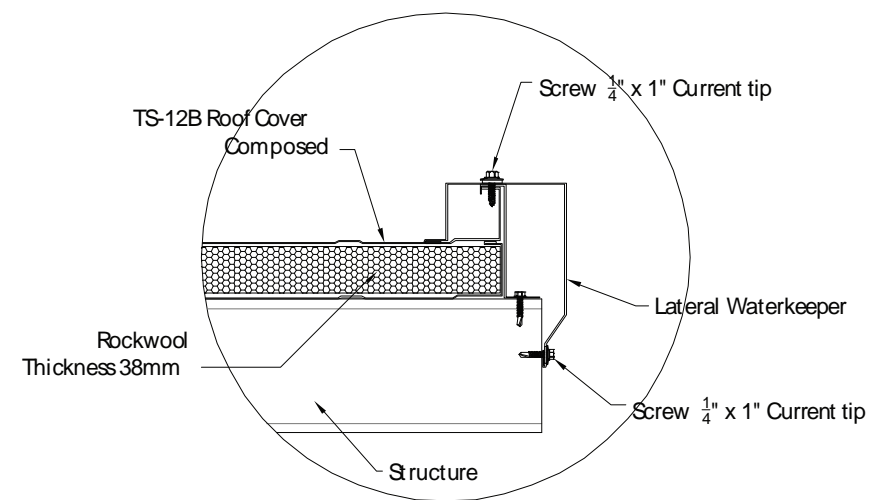


Floor Section

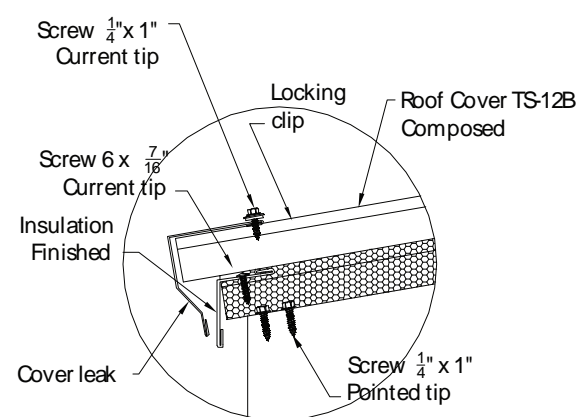


Floor Panel Detail Without scale

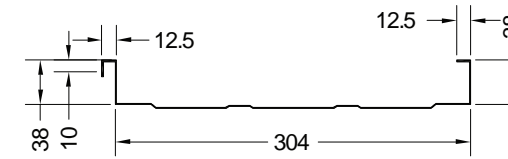




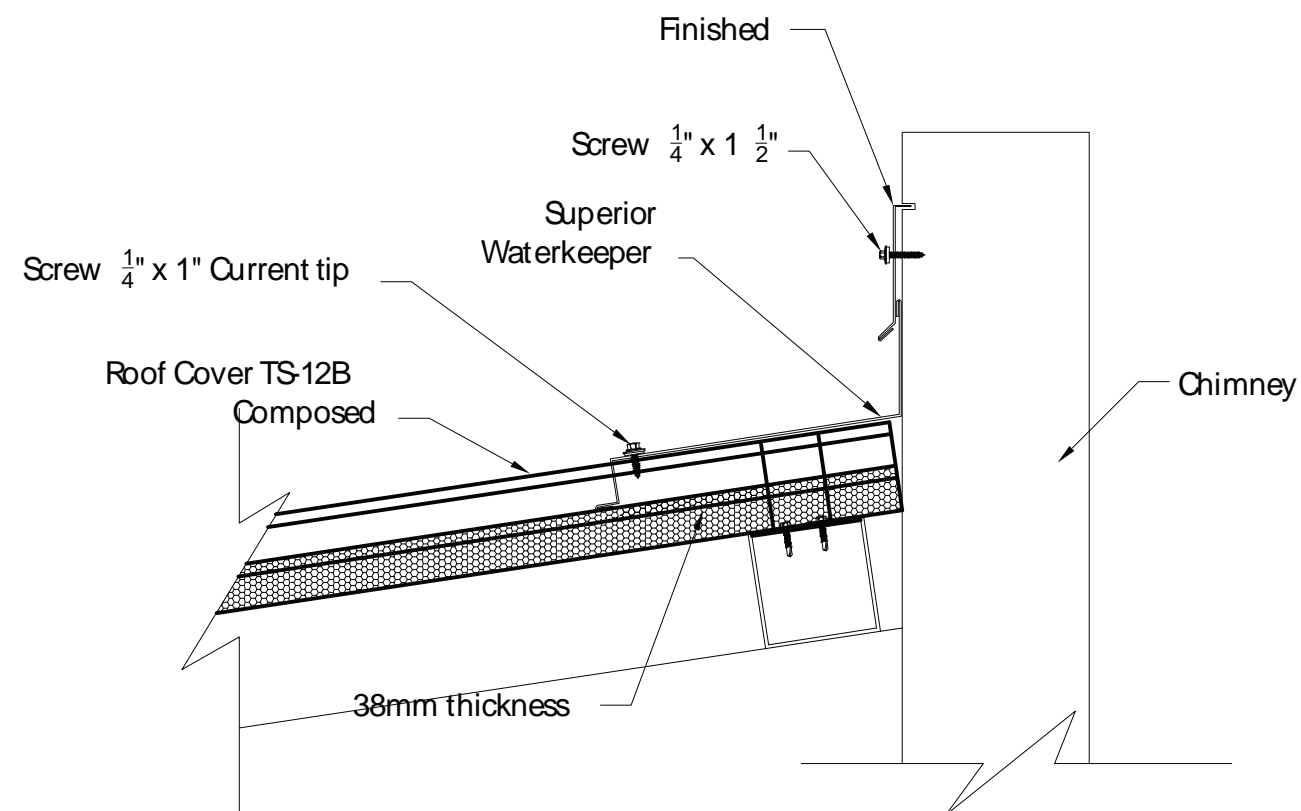
Detail for TS-12B Composed Lateral Waterkeeper



Detail for the TS-12B Composed Cover leak

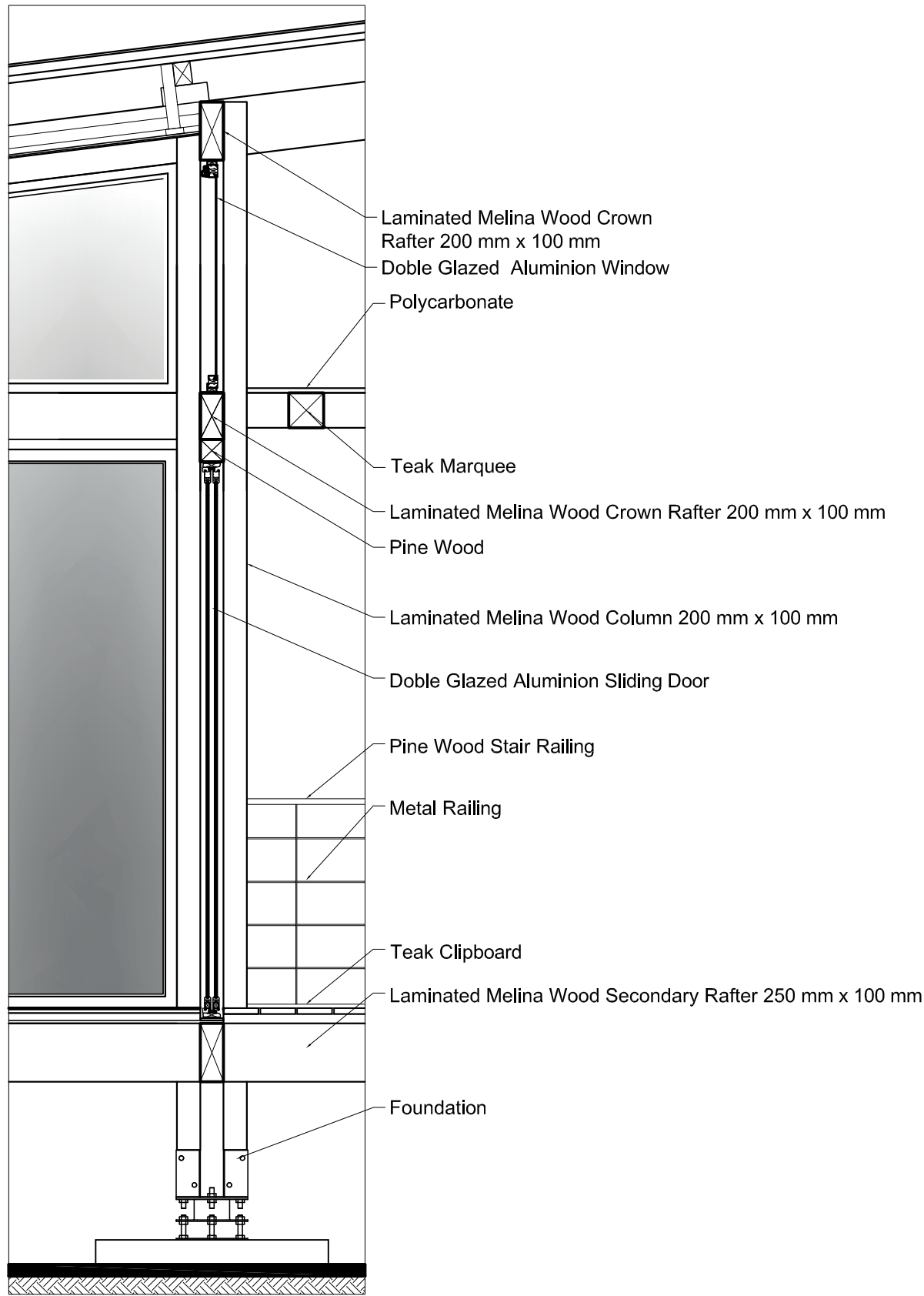


TS-12B perfil

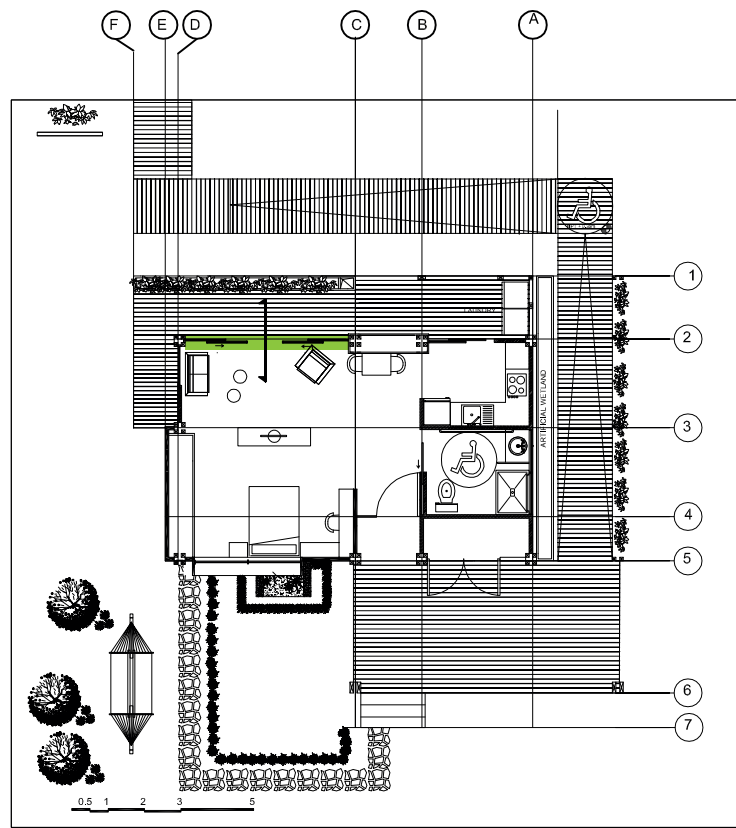


Detail of TS-12B Composed Superior  
Finished and Waterkeeper

# WALL SECTION 1



P3: SECTION



LOCATION





Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of construction

Sheet title

Wall Construction Details

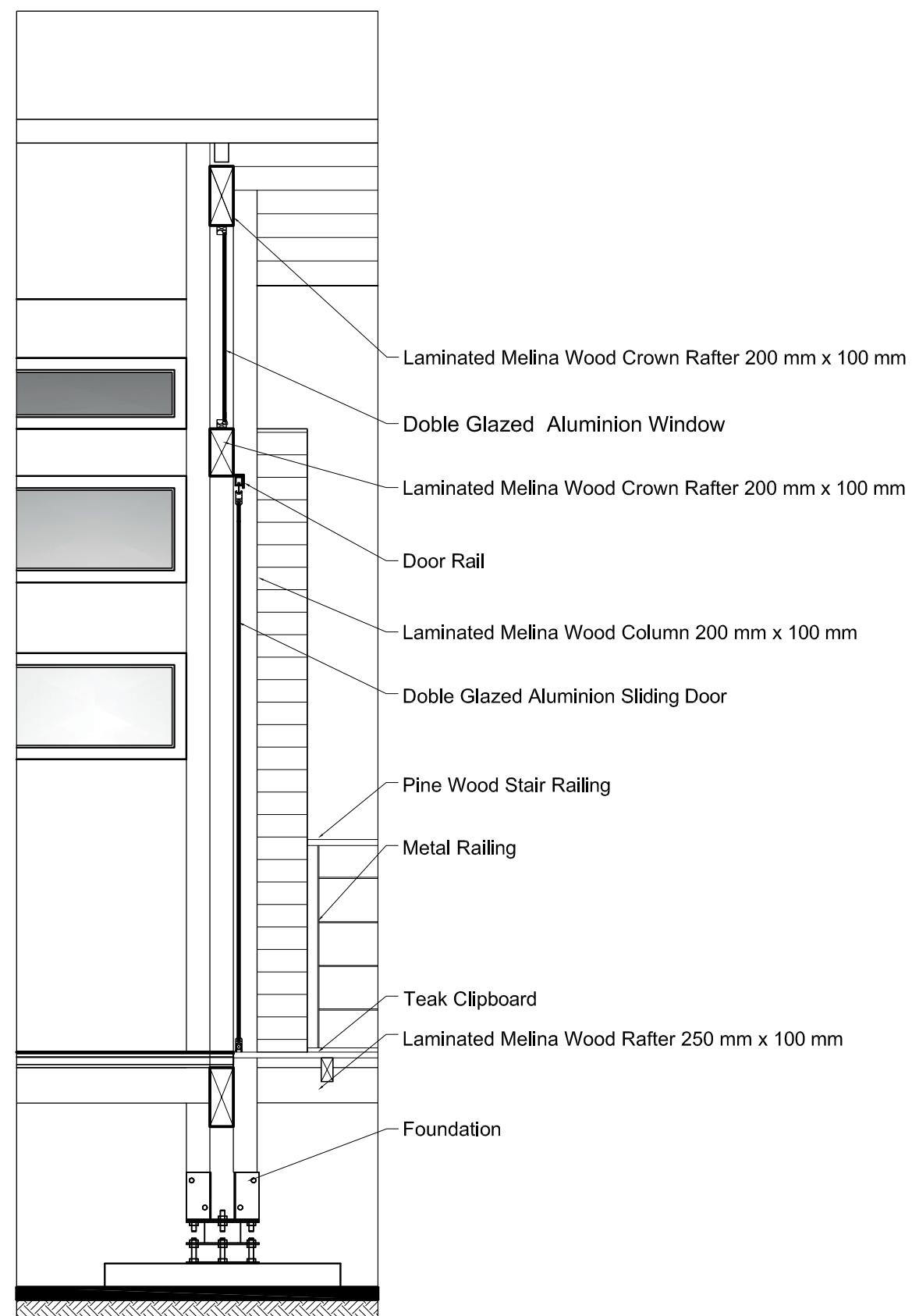
Content: -Wall section  
-Location

Scale: 1:20

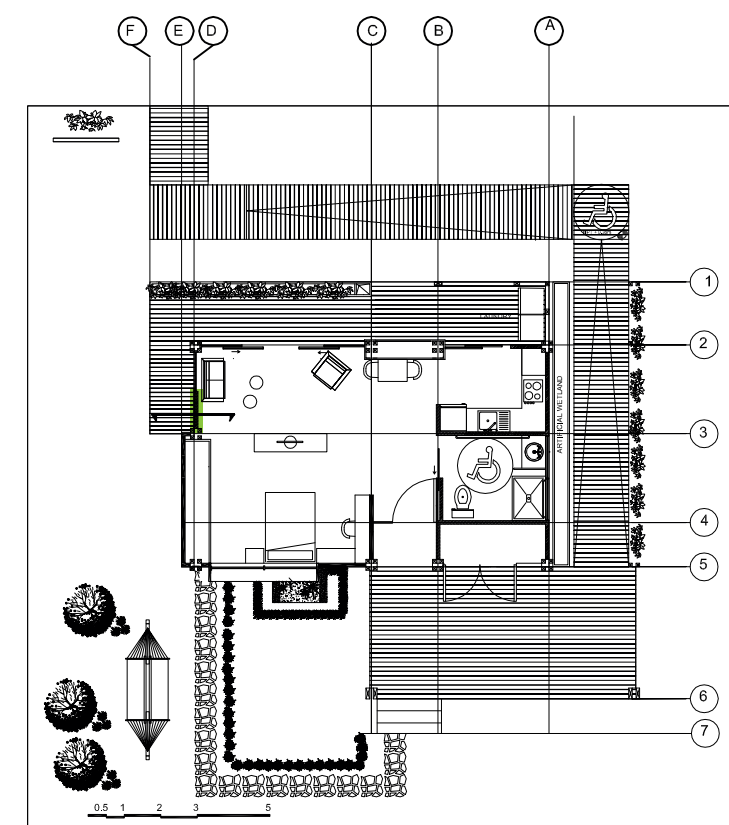
Date: 11/3/2014

Code: AR-341

# WALL SECTION 2



P4: SECTION



Deliverable #7  
Project Drawings

Proyct: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
construction

Sheet title

Wall Construction Details

Content: -Wall section  
-Location

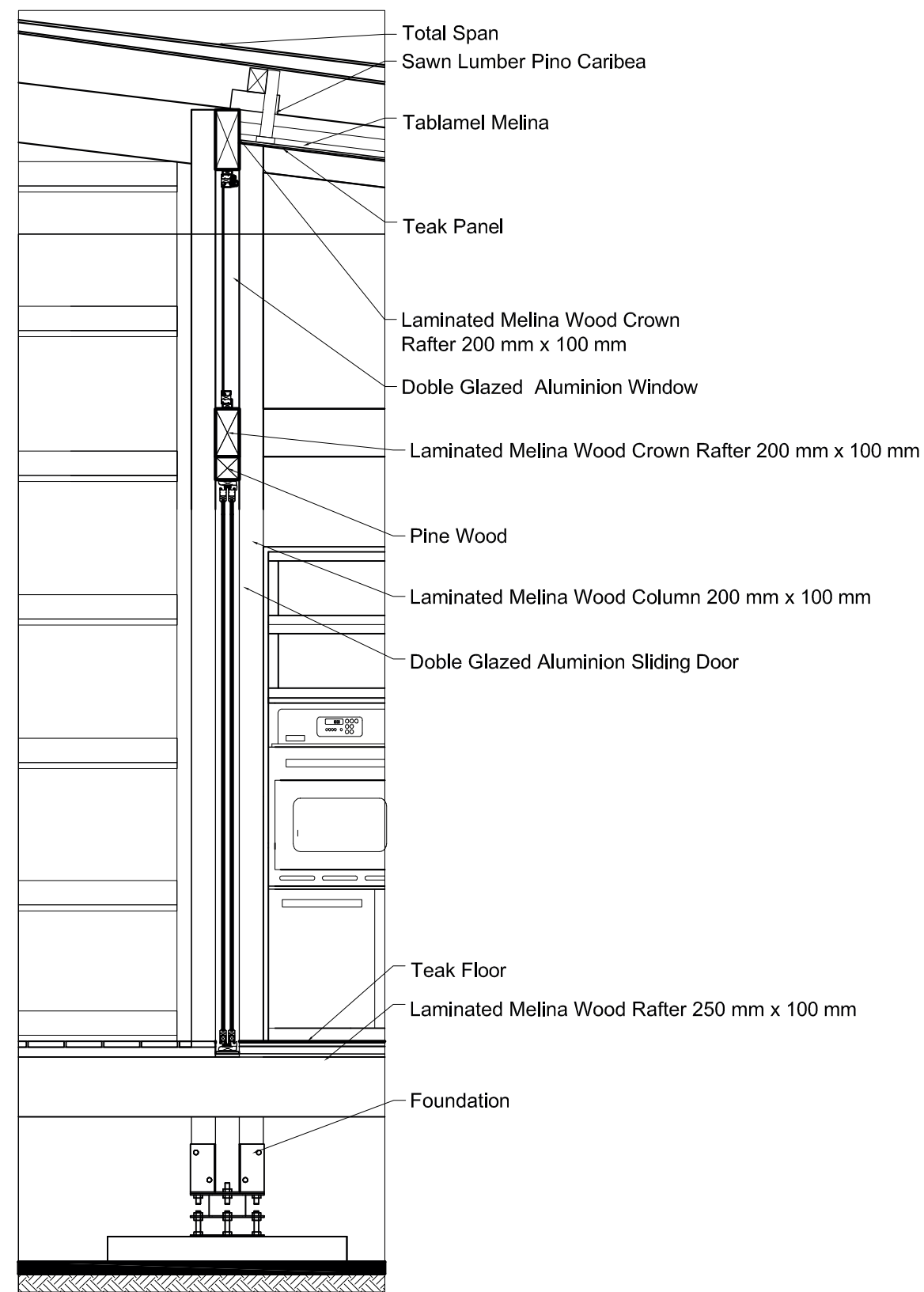
Scale: 1:20

Date: 11/3/2014

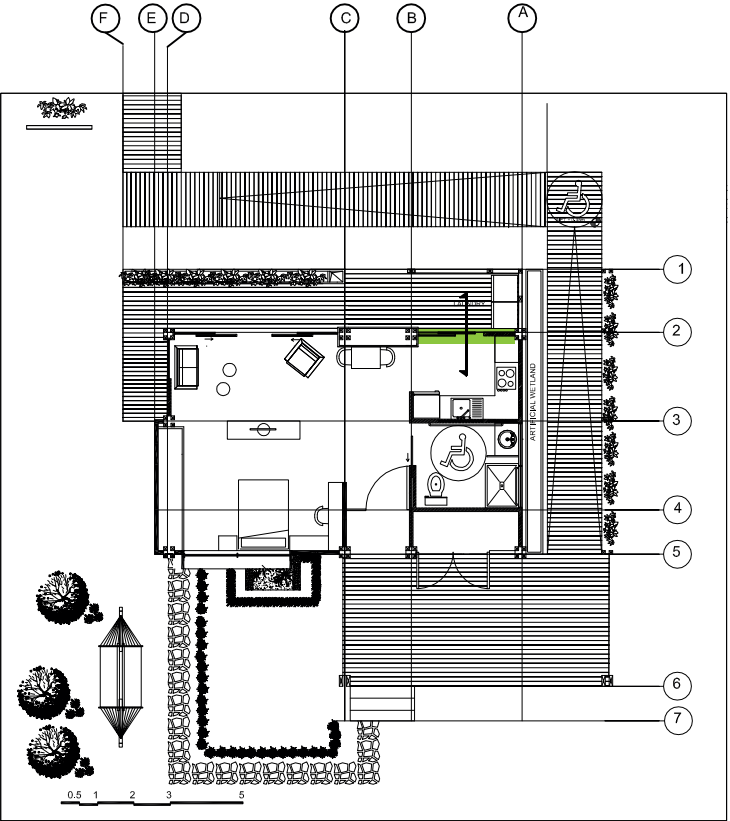
Code: AR-342



# WALL SECTION 3



P5: SECTION



LOCATION



Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
construction

Sheet title

Wall Construction Details

Content: -Wall section  
-Location

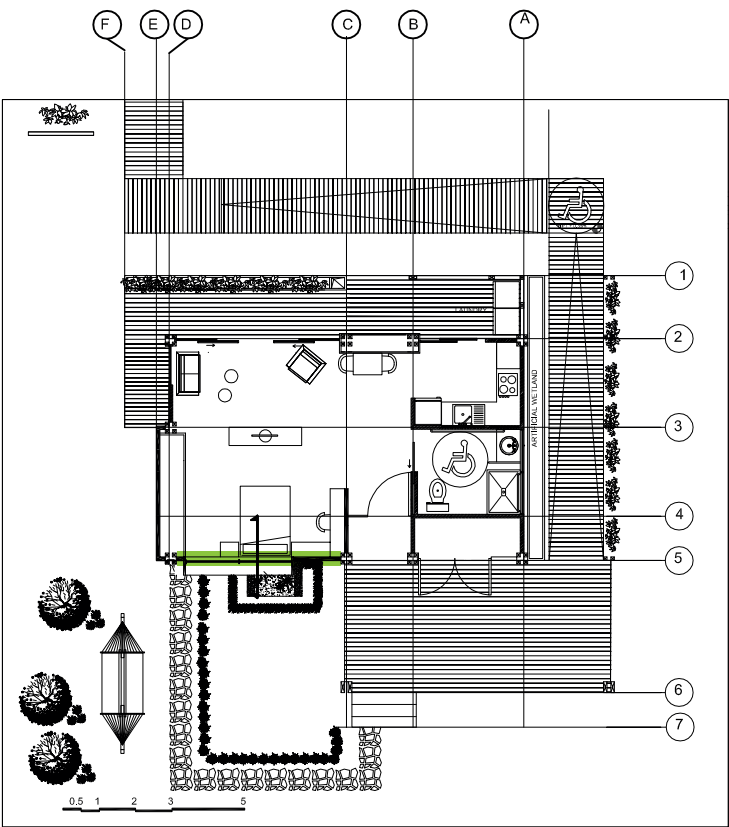
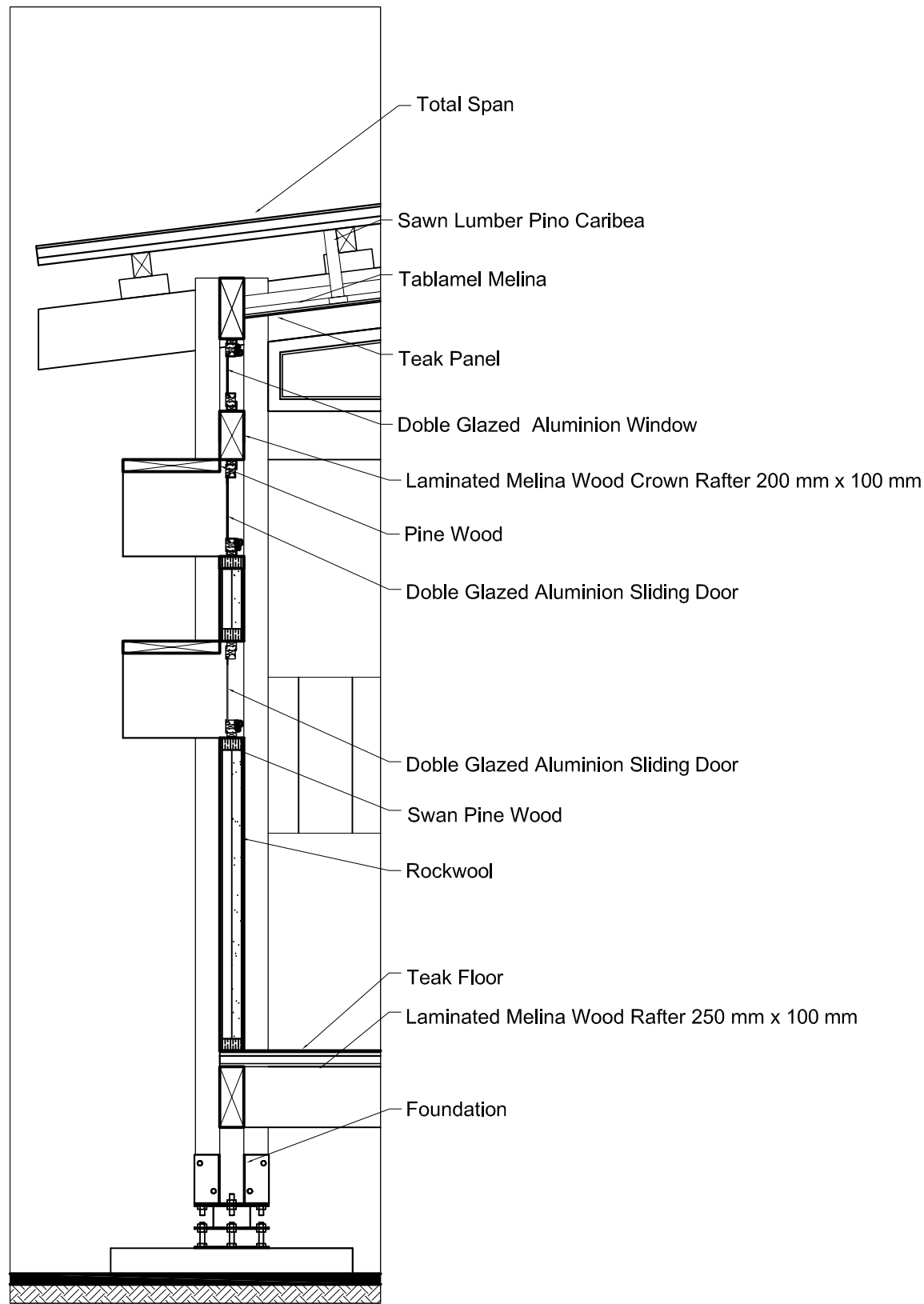
Scale: 1:20

Date: 11/3/2014

Code:

AR-343

# WALL SECTION 4



## LOCATION



Deliverable #7  
Project Drawings

Proyct: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
construction

Sheet title

Wall Construction Details

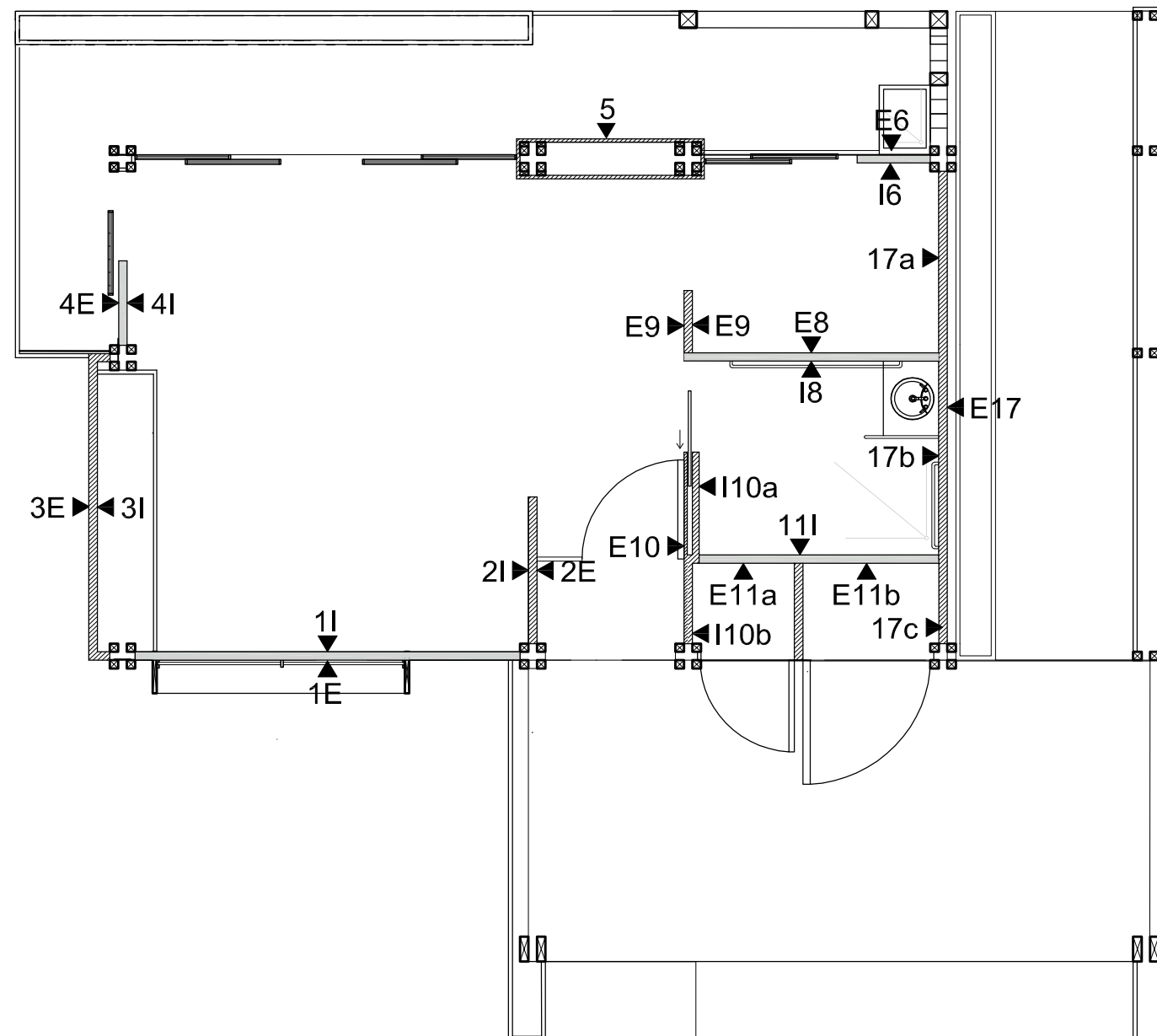
Content: -Wall section  
-Location

Scale: 1:20

Date: 11/3/2014

Code:

AR-344



0.5 1 2 3 5

Walls location plan

Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
construction

Sheet title

Partitions Details

Content: -House plan

Scale: 1:75

Date: 11/3/2014

Code: **AR-351**



**Deliverable #7**  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of architecture

Sheet title

Partitions details

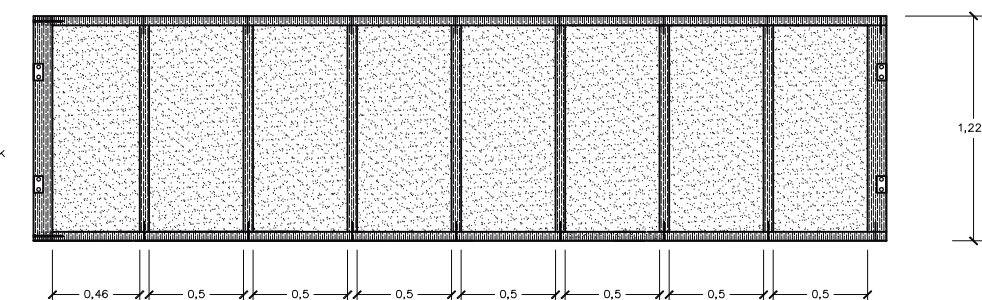
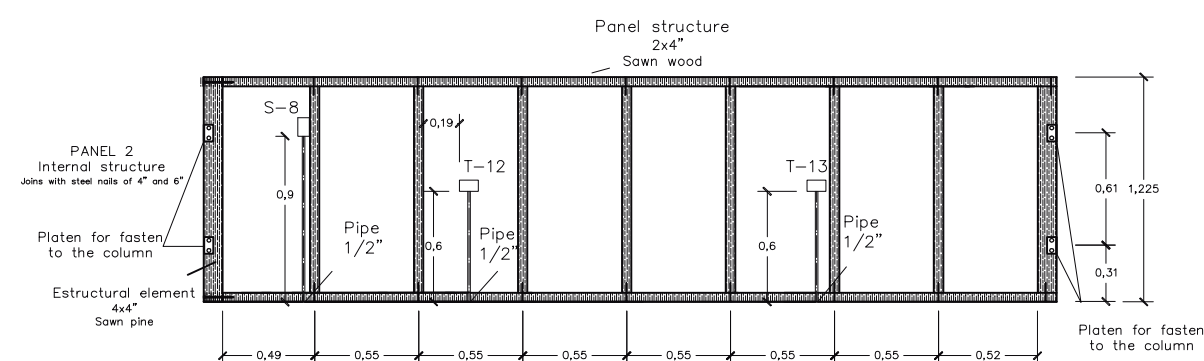
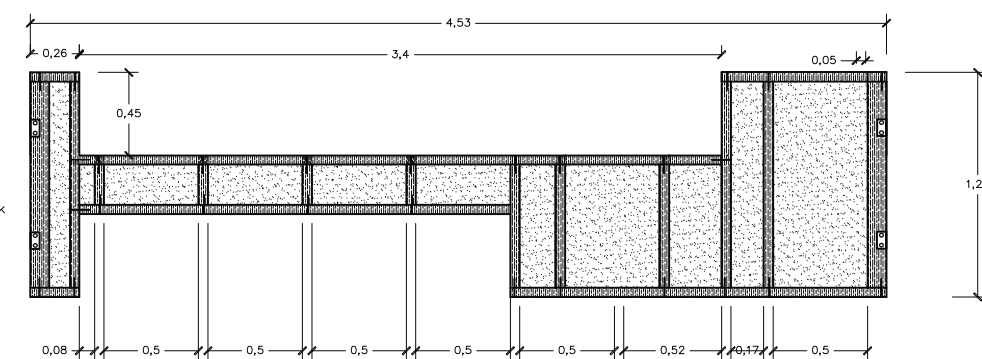
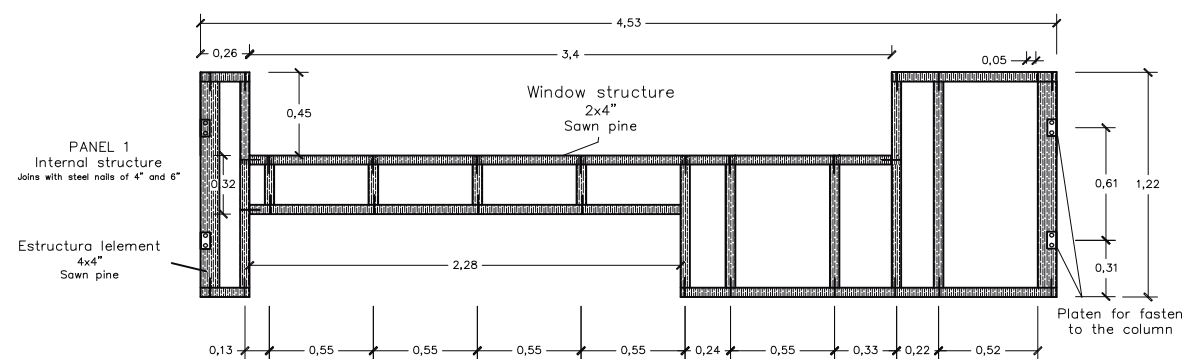
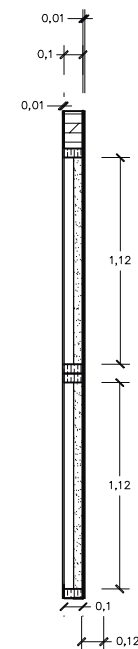
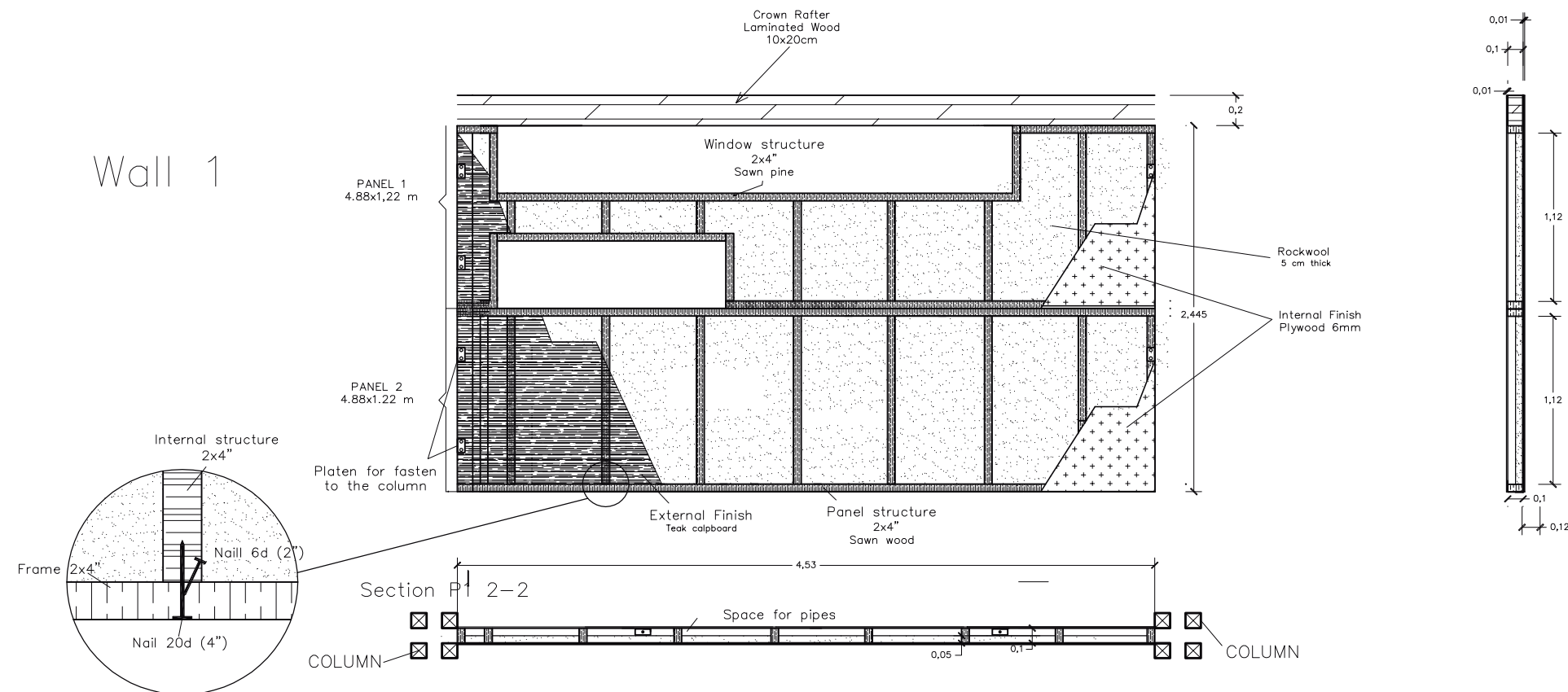
Content: -Construction details

Scale: 1:40

Date: 11/3/2014

Code: **AR-352**

Wall 1





## Deliverable #7

### Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
architecture

Sheet title
-------------

### Partitions details

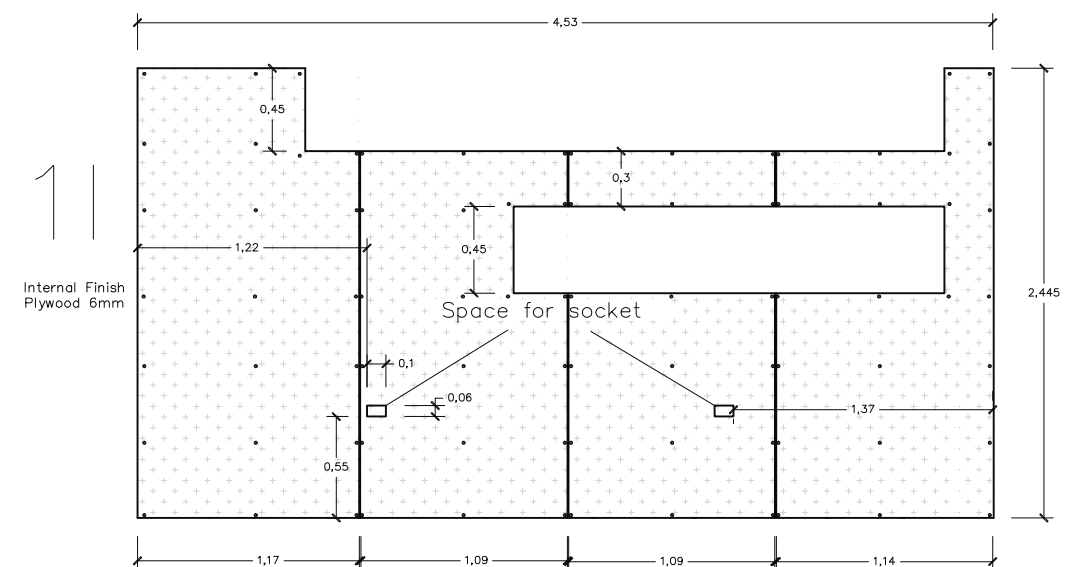
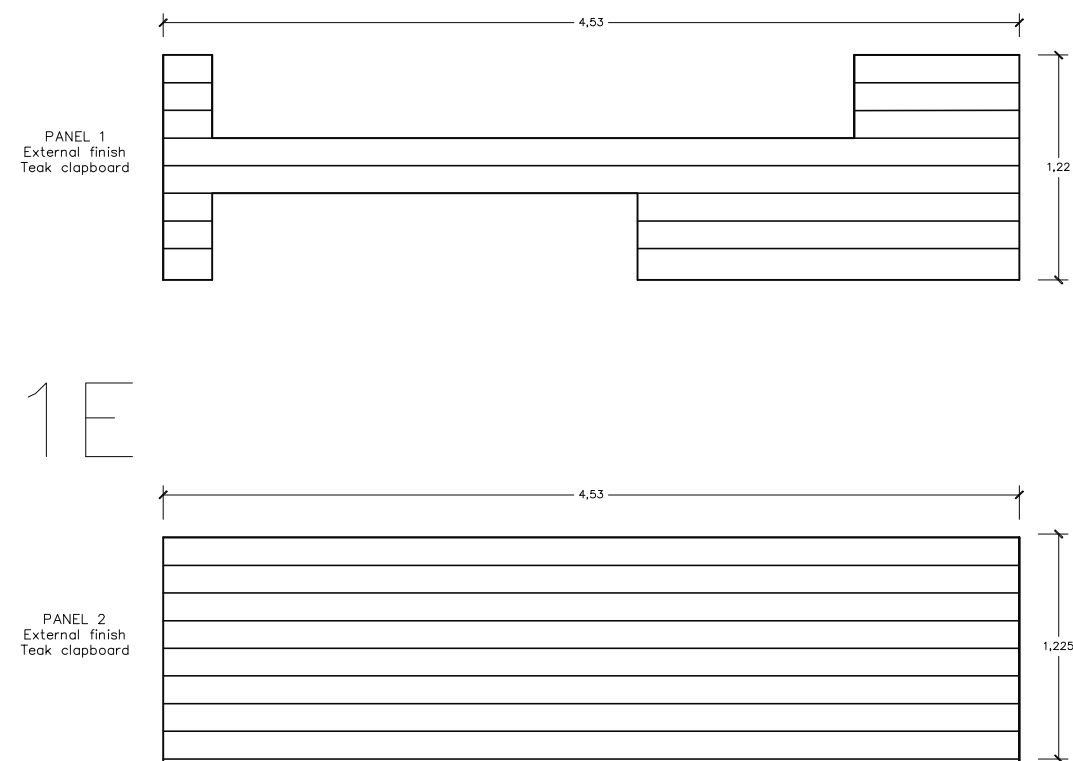
Content: -Construction details
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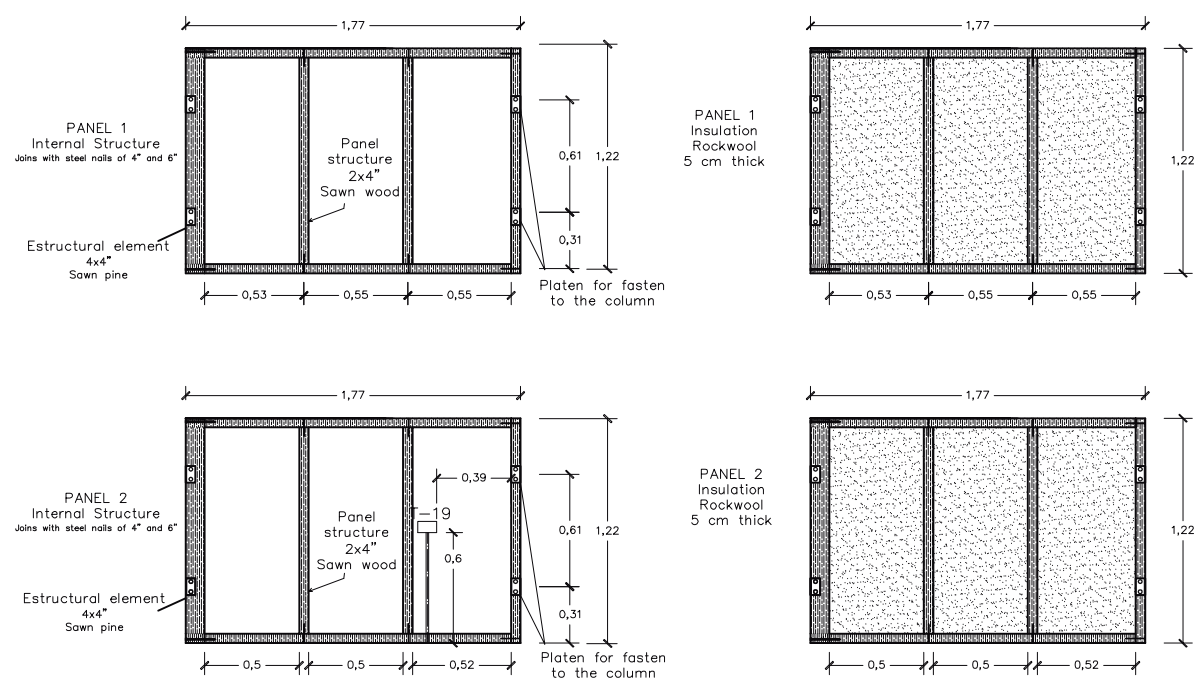
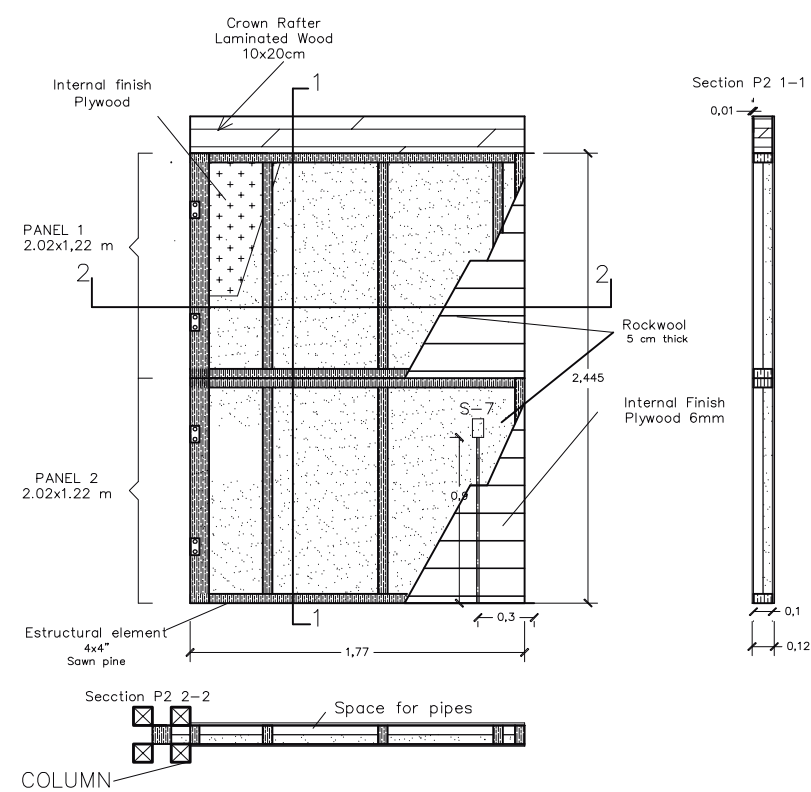
Date: 11/3/2014

Code:

AR-353



## Wall 2



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
architecture

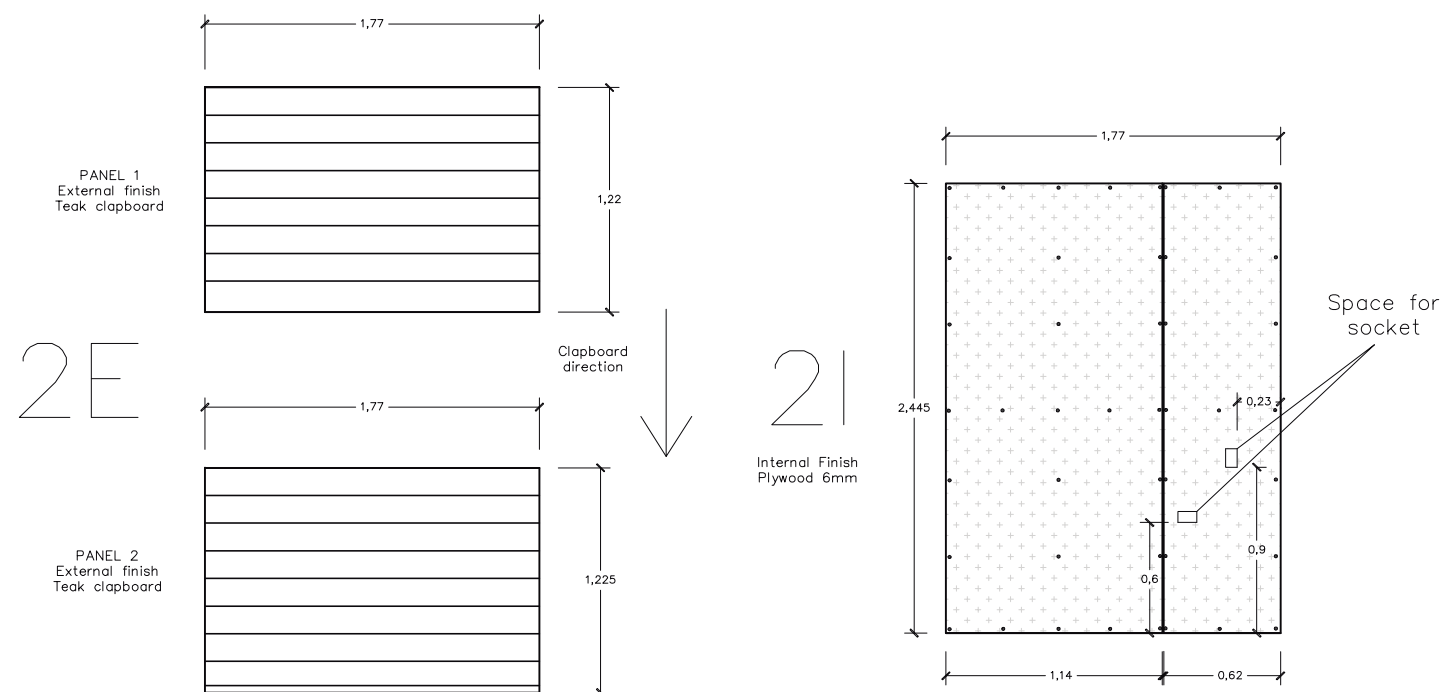
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Partitions details

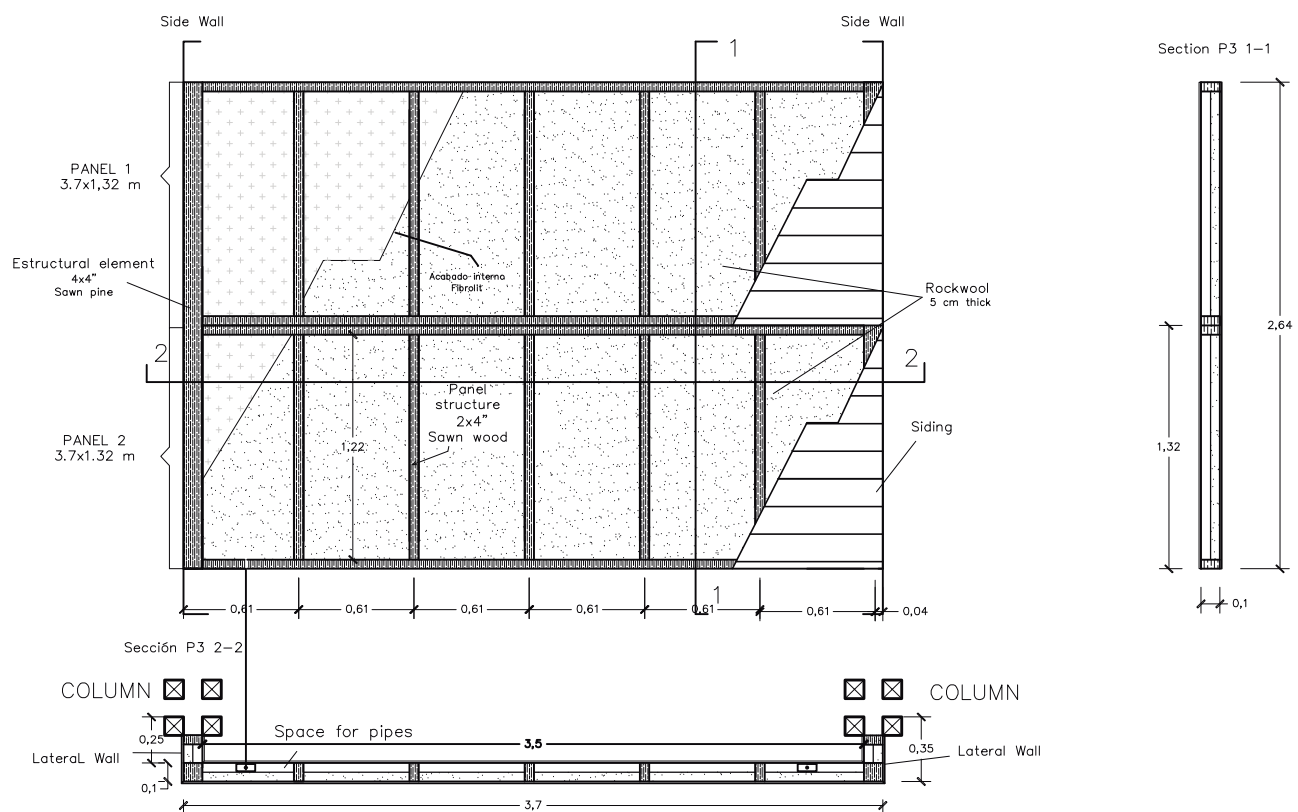
Content: -Construction details

Scale: 1:40      Date: 11/3/2014

Code: AR-354



Wall 3





# Deliverable #7 Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
architecture

Sheet title

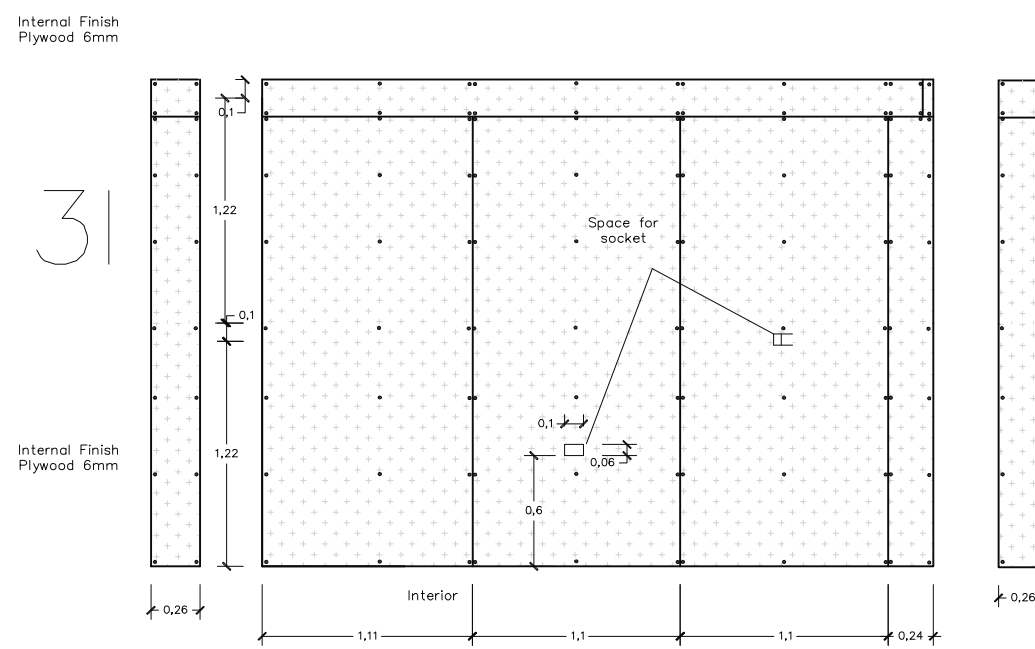
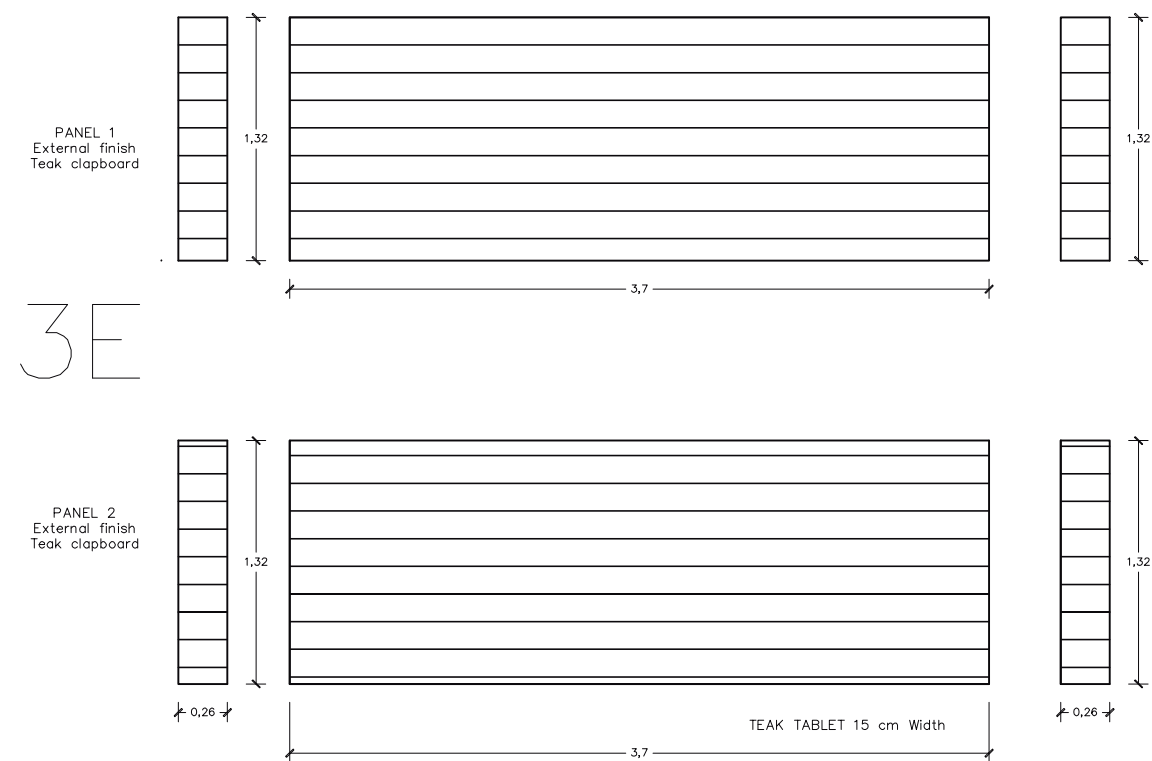
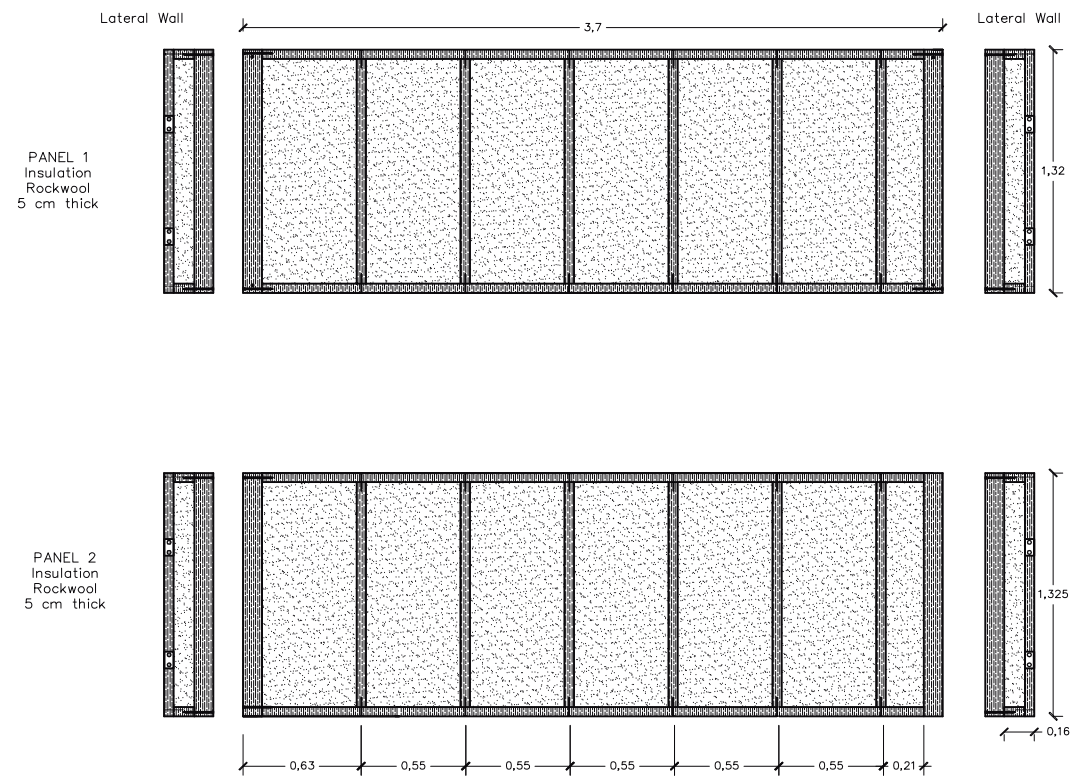
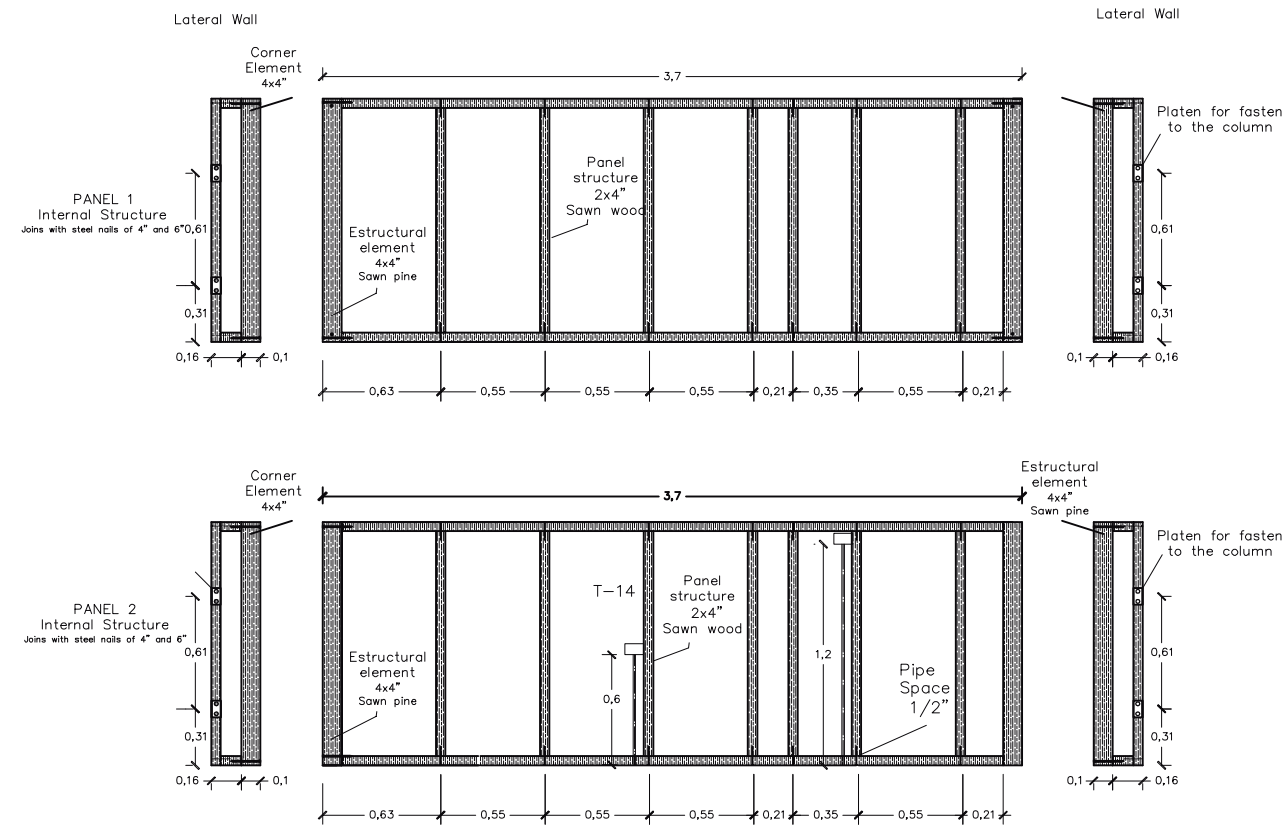
Partitions details

Content: -Construction details

Scale: 1:40

Date: 11/3/2014

Code: AR-355



**Deliverable #7**  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of architecture

Sheet title

Partitions details

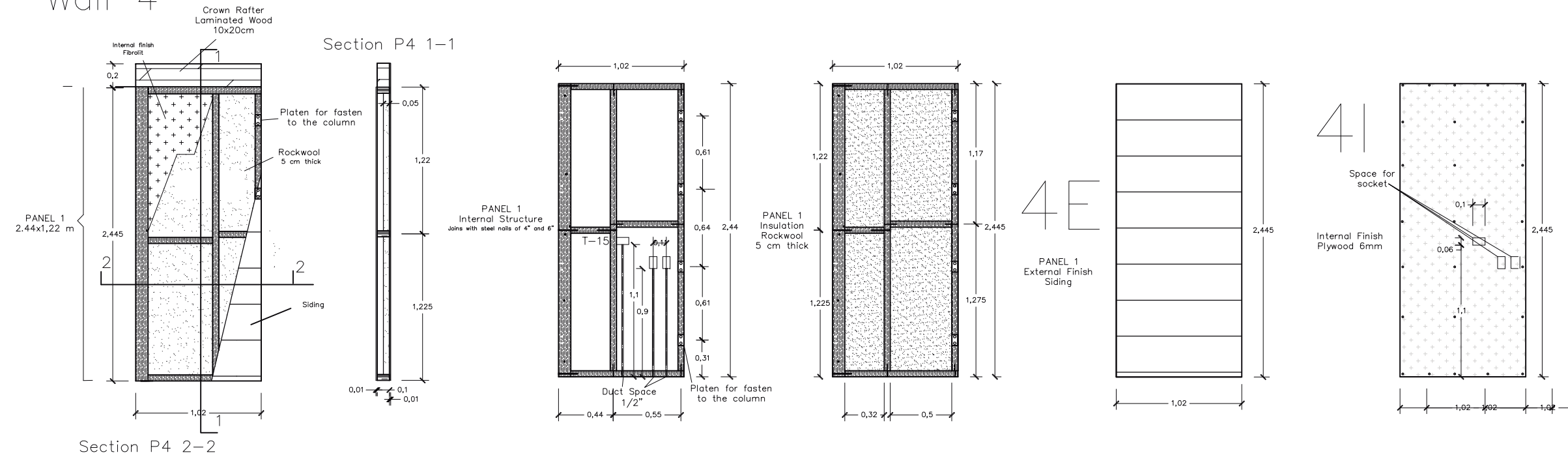
Content: -Construction details

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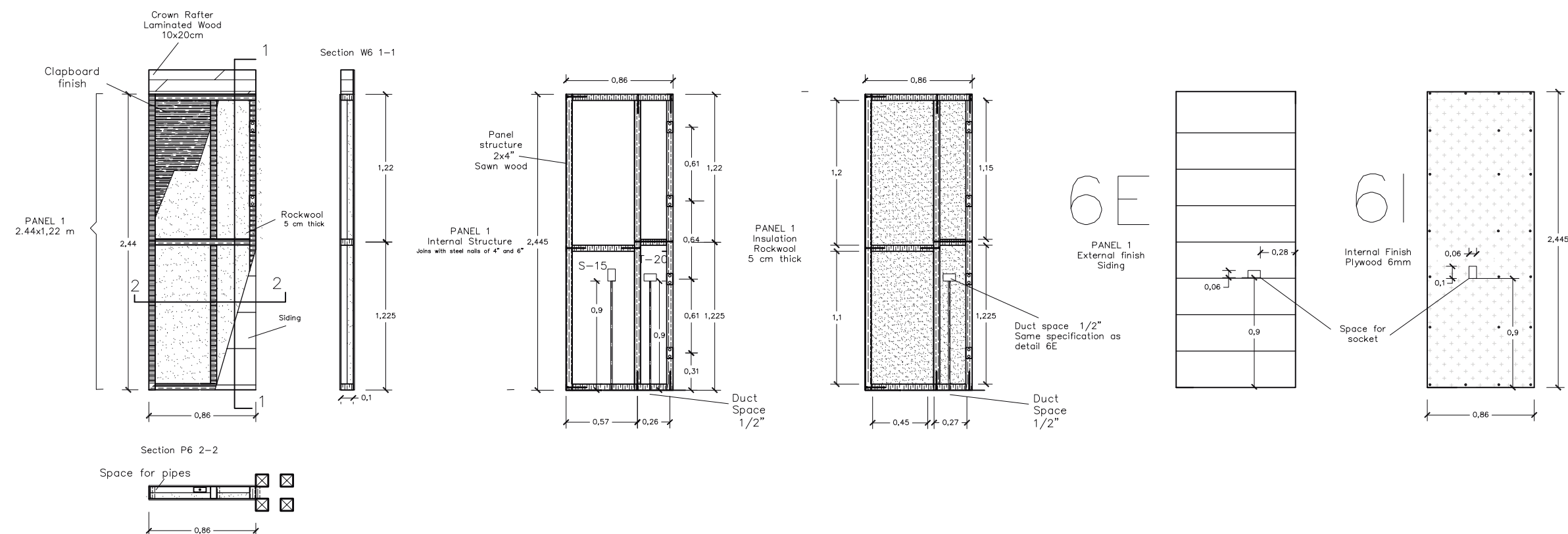
Date: 11/3/2014

Code: **AR-356**

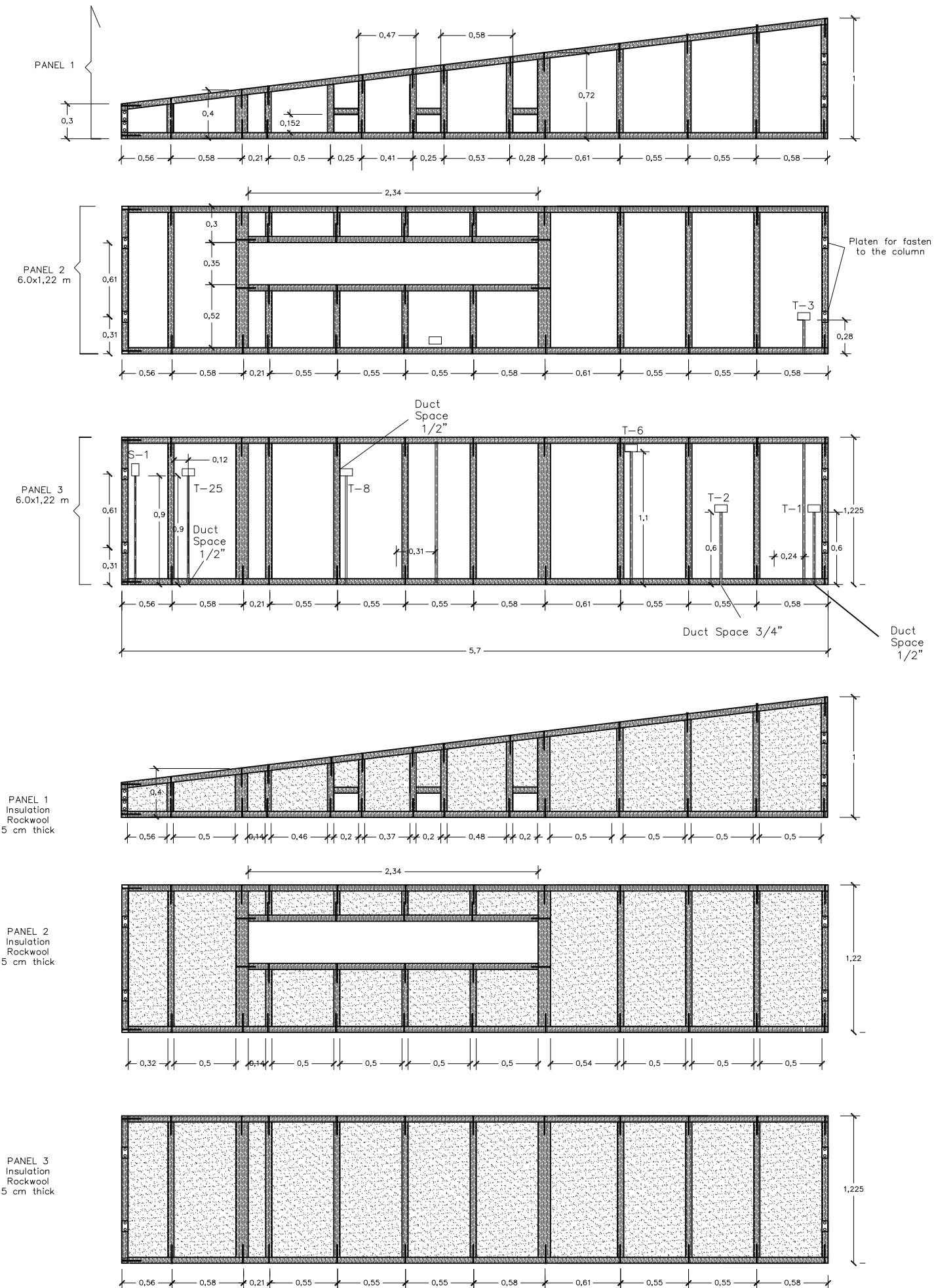
## Wall 4



## Wall 6



# Wall 7



## Deliverable #7 Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
architecture

Sheet title

Partitions details

Content: -Construction details

Scale: 1:40

Date: 11/3/2014

Code: AR-357



Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
architecture

Sheet title

Partitions details

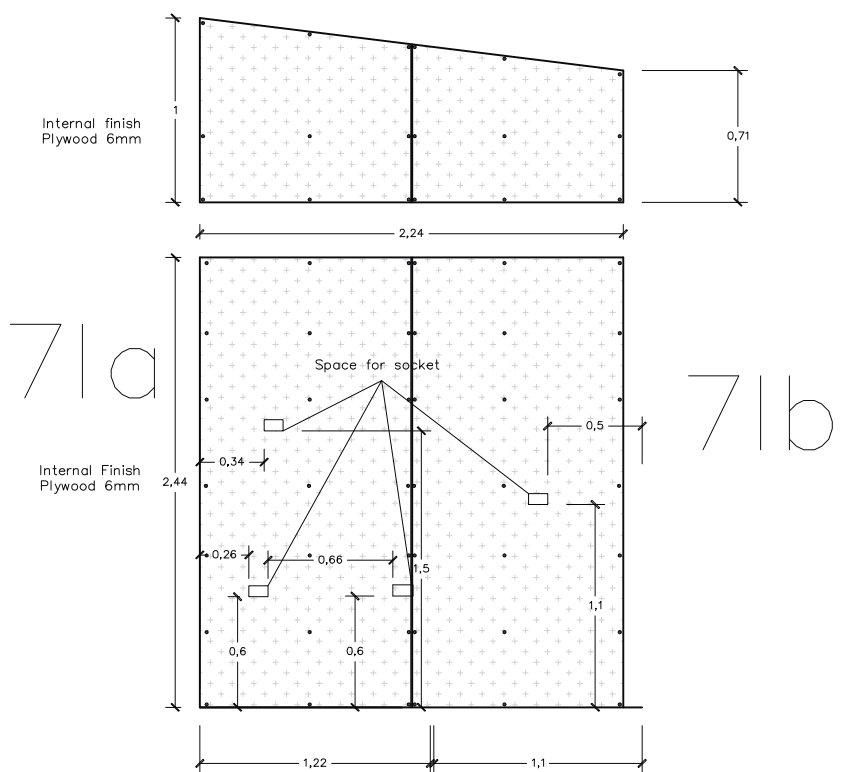
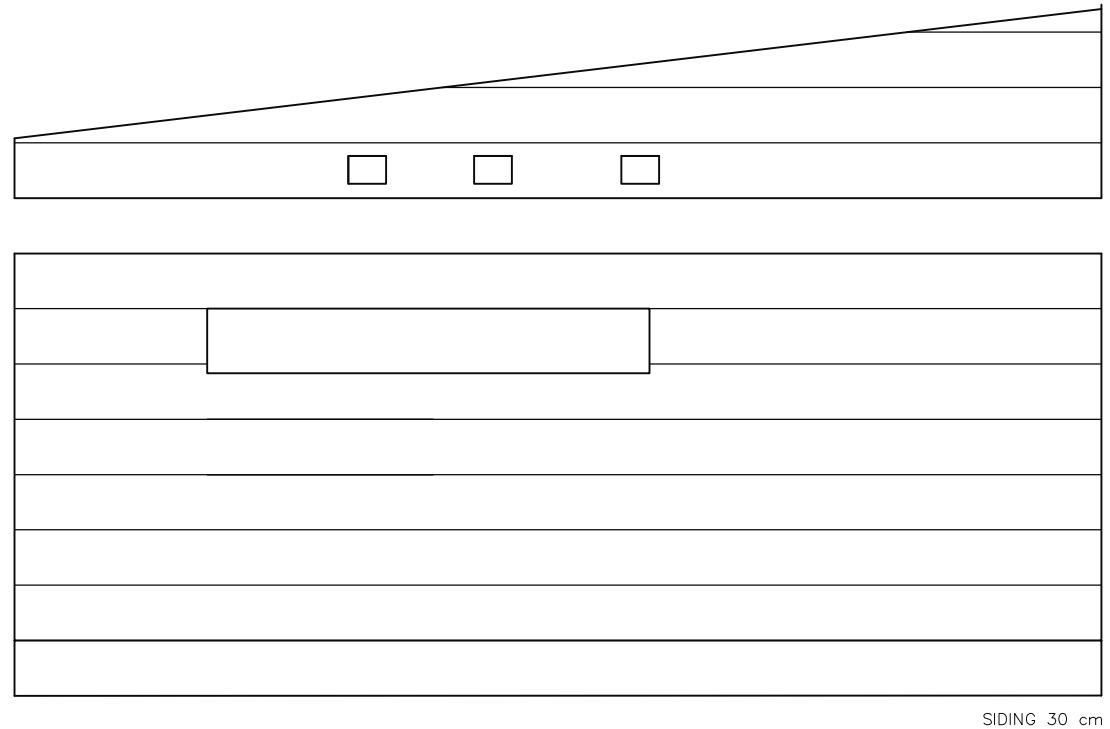
Content: -Construction details

Scale: 1:40      Date:11/3/2014

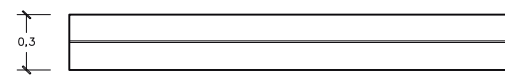
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7E

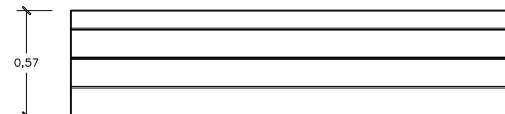
External finish  
siding  
30cm wide



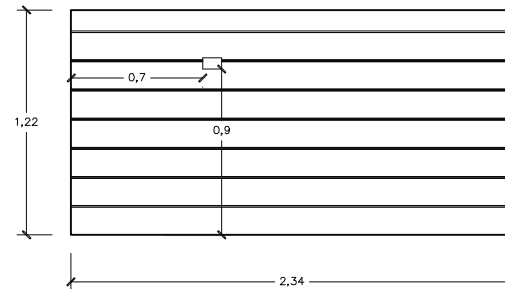
PANEL 1  
Internal finish  
Clapboard



PANEL 2  
Internal finish  
Clapboard

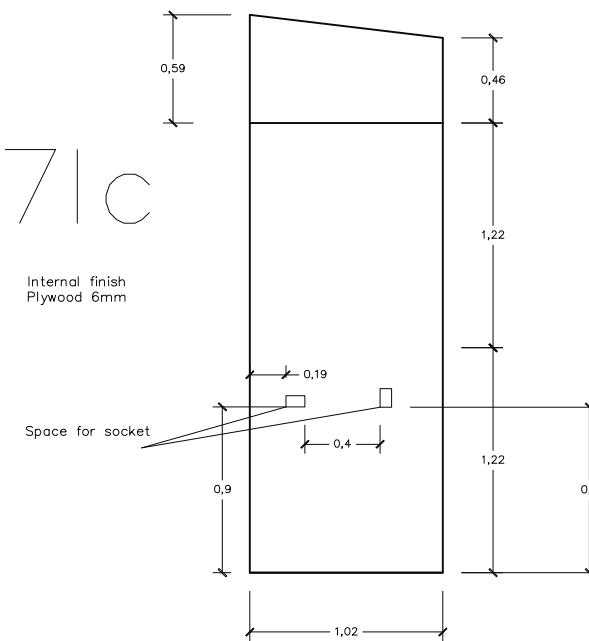


PANEL 3  
Internal finish  
Clapboard

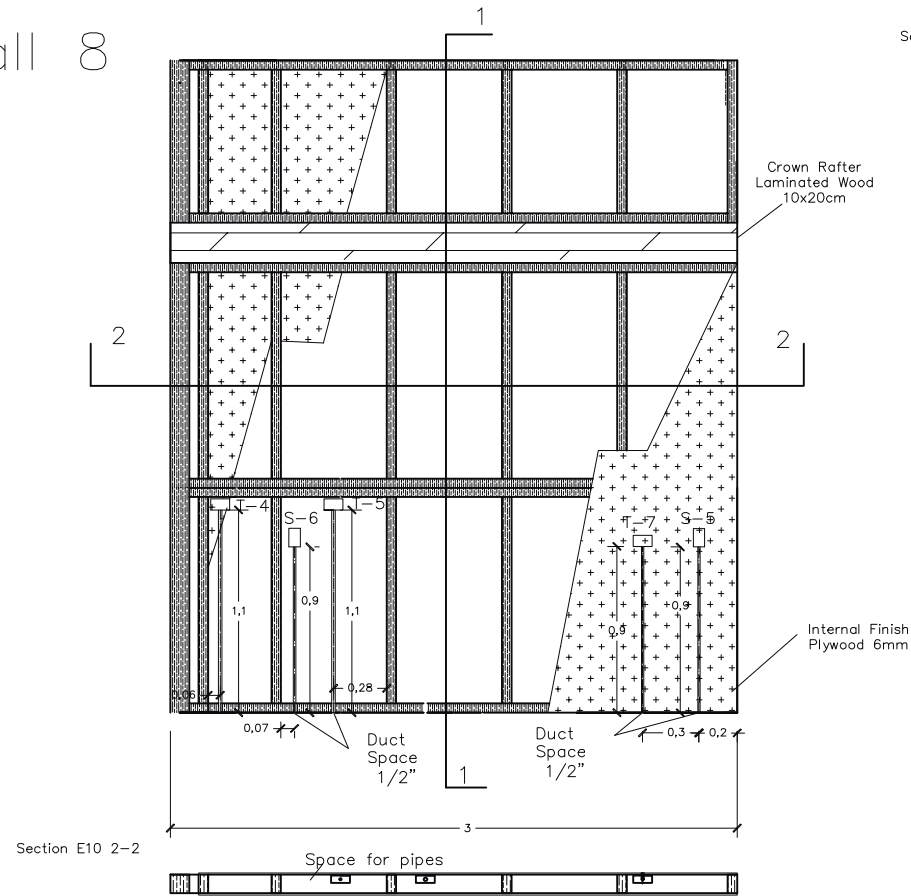


7Ic

Internal finish  
Plywood 6mm

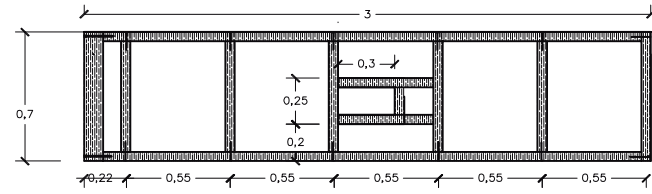


Wall 8

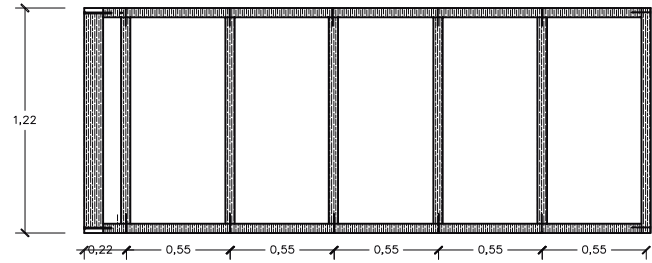


Section I11 1-1

PANEL 1  
Internal Structure  
Joins with steel nails of 4" and 6"

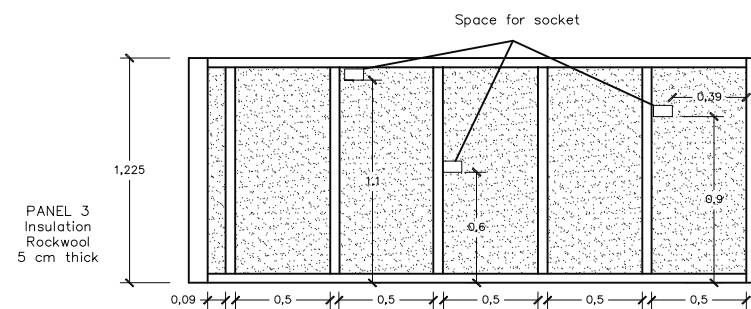
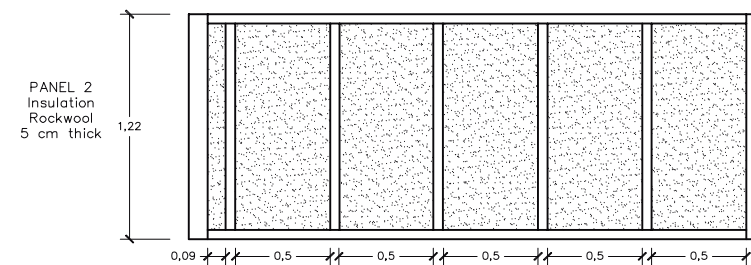
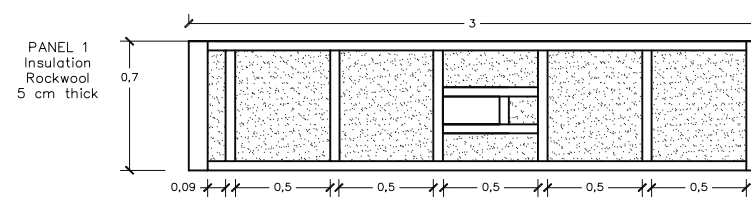
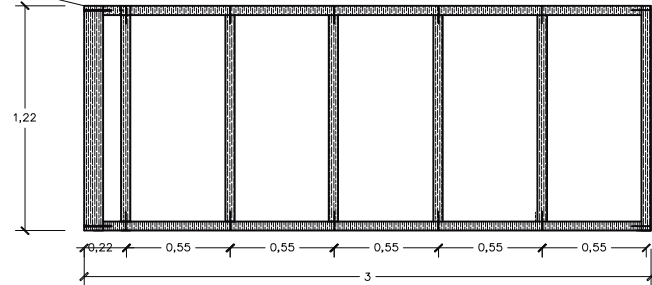


PANEL 2  
Internal Structure  
Joins with steel nails of 4" and 6"

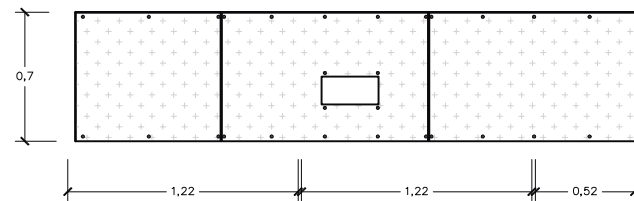


Estructural element  
4x4" Sawn pine

PANEL 3  
Internal Structure  
Joins with steel nails of 4" and 6"

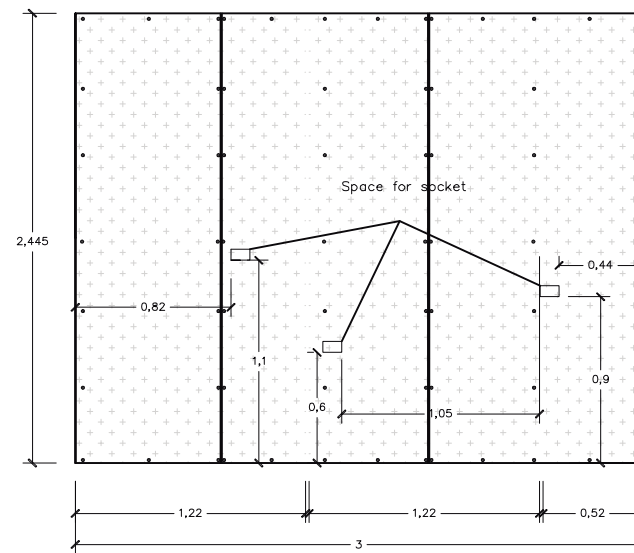


Internal finish Plywood 6mm

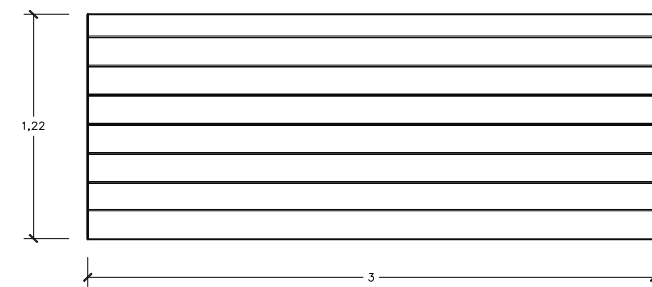


8E

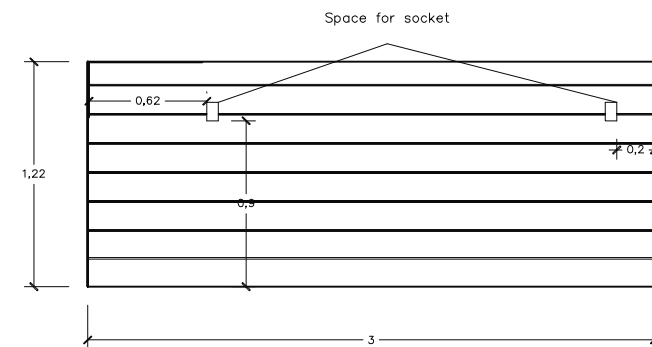
Internal finish Plywood 6mm



PANEL 2  
Internal finish Clapboard



PANEL 3  
Internal finish Clapboard



**Deliverable #7**  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of architecture

Sheet title

Partitions details

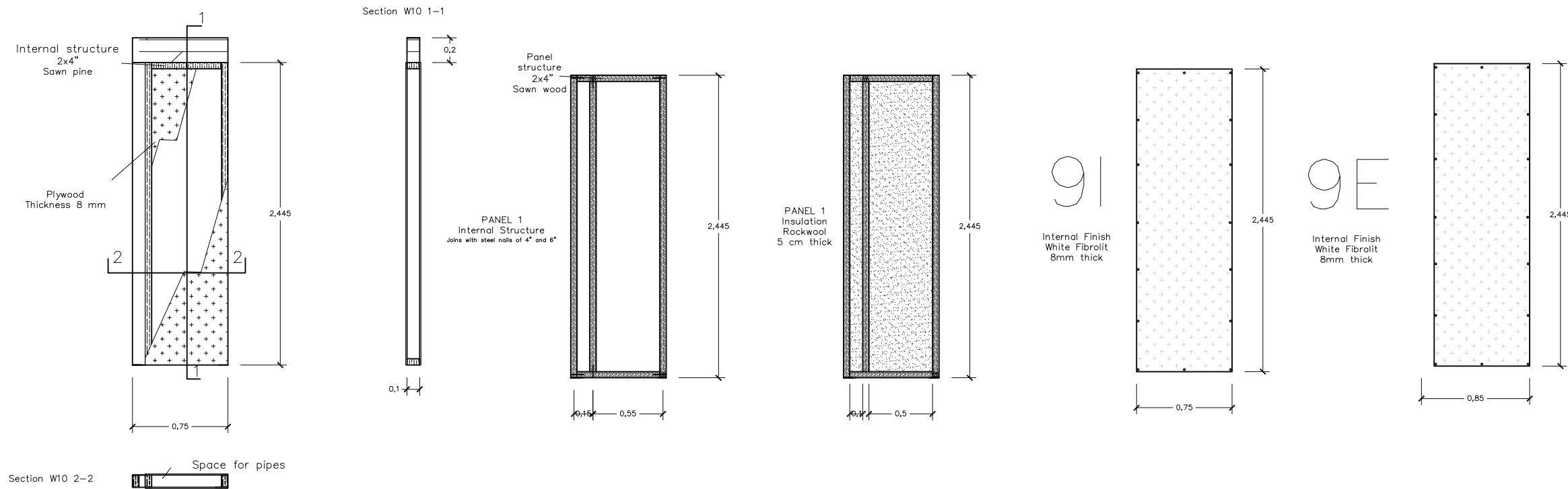
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Scale: 1:40

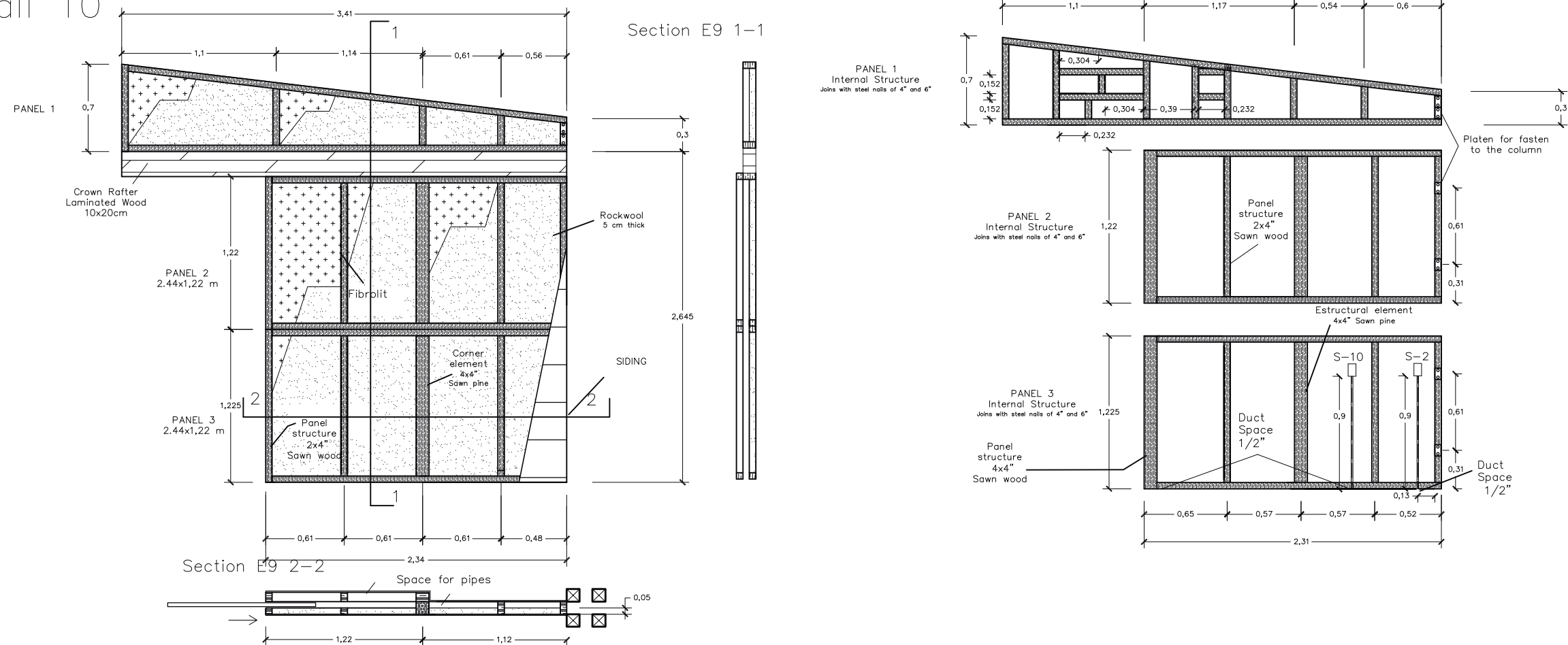
Date: 11/3/2014

Code: AR-3510

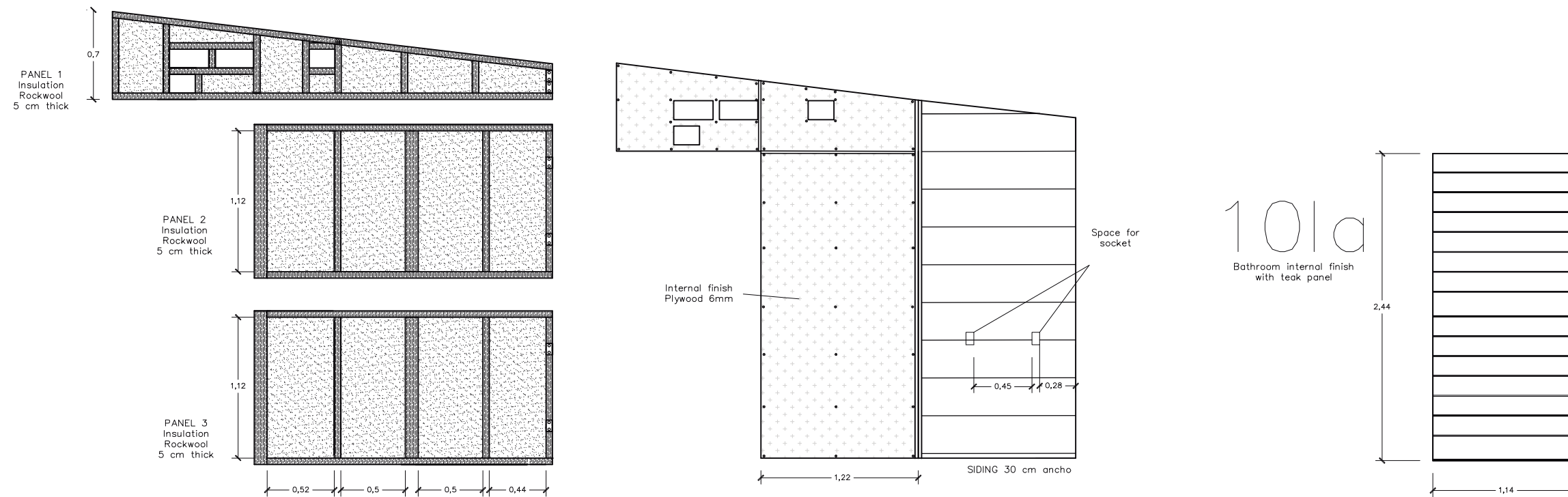
Wall 9



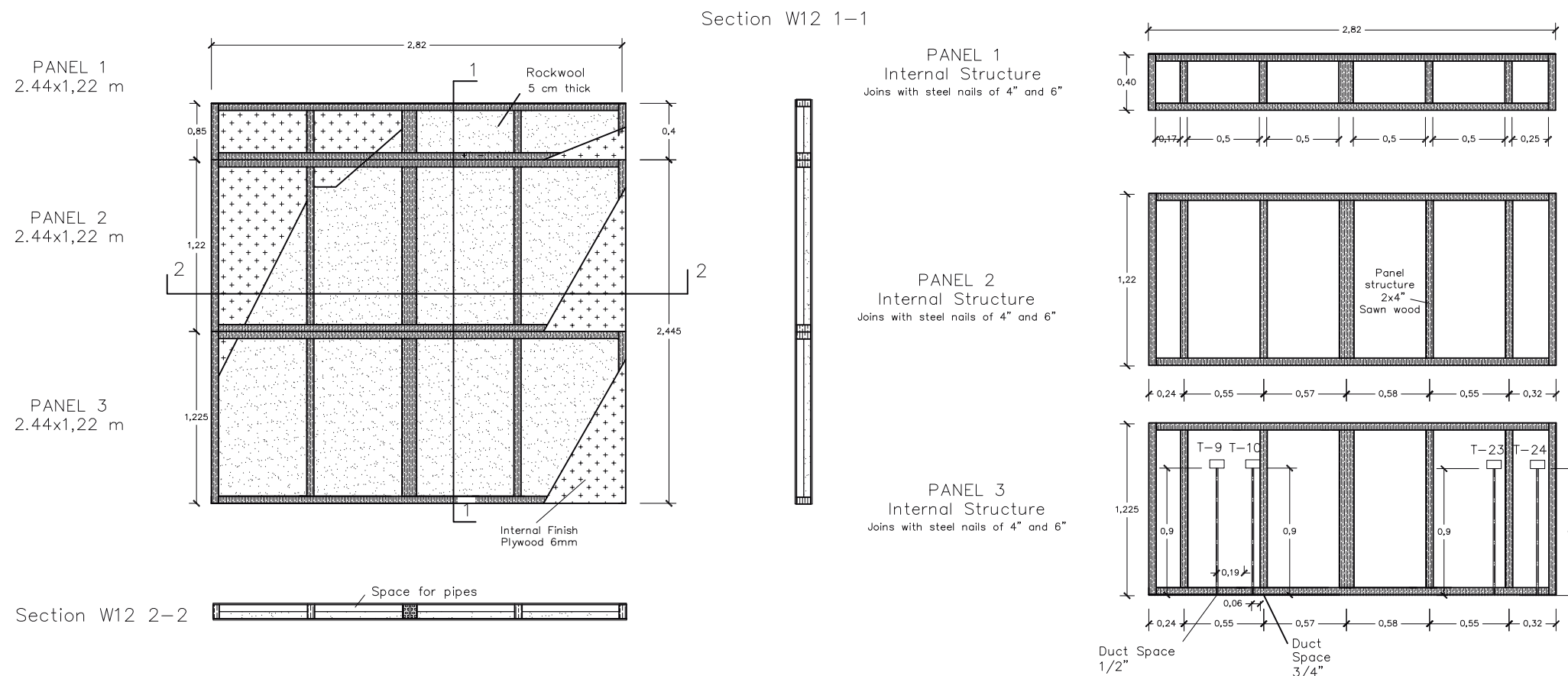
Wall 10







Wall 11



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
architecture

Sheet title

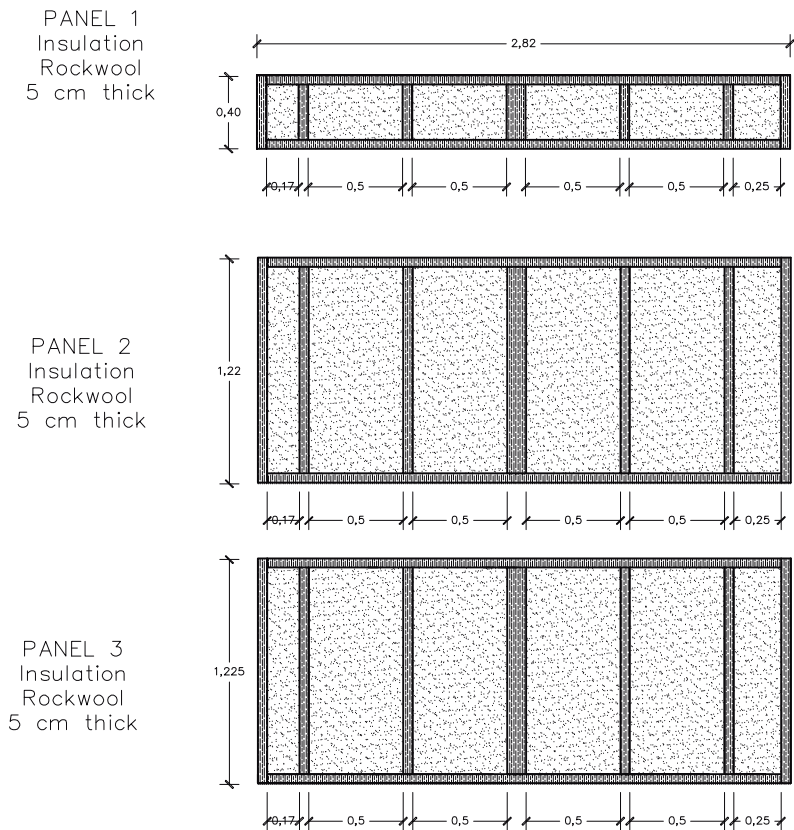
Partitions details

Content: -Construction details

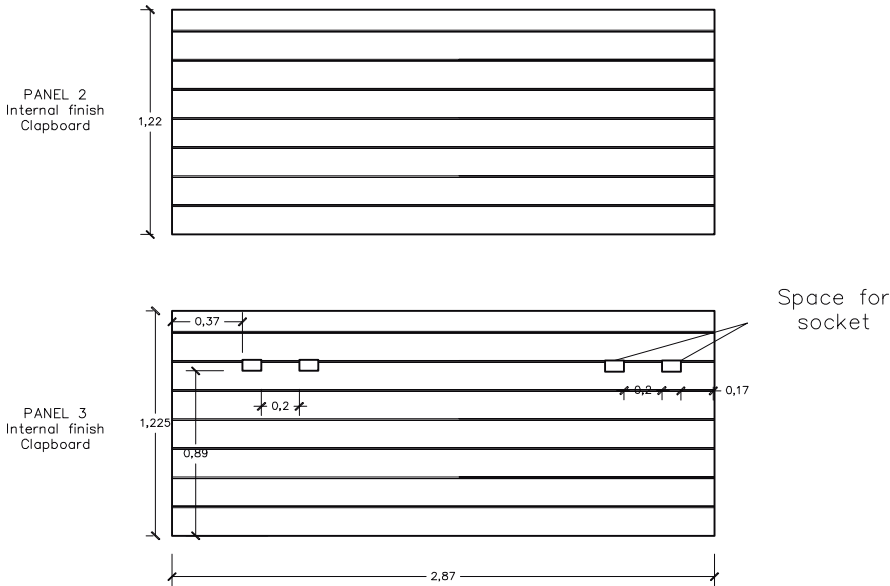
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Date:11/3/2014

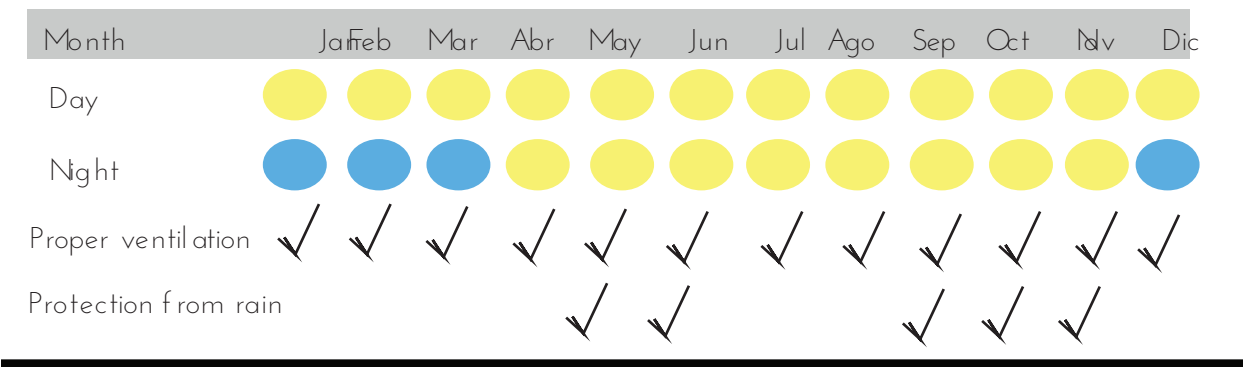
Code: AR-3512



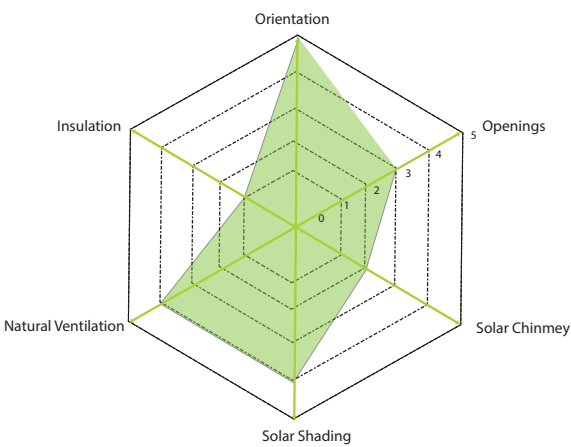
1 1 1  
Bathroom internal finish  
with teak panel



The rmal stress / Mahoney



Comfort Yellow Cold Blue



Orientation thermal insulation



Cross ventilation Open space



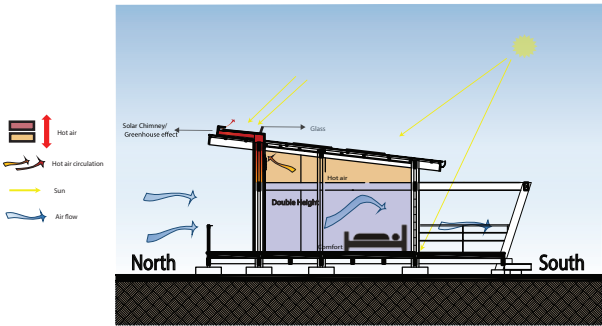
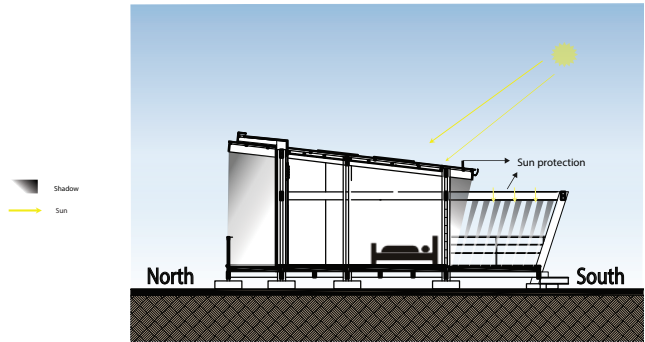
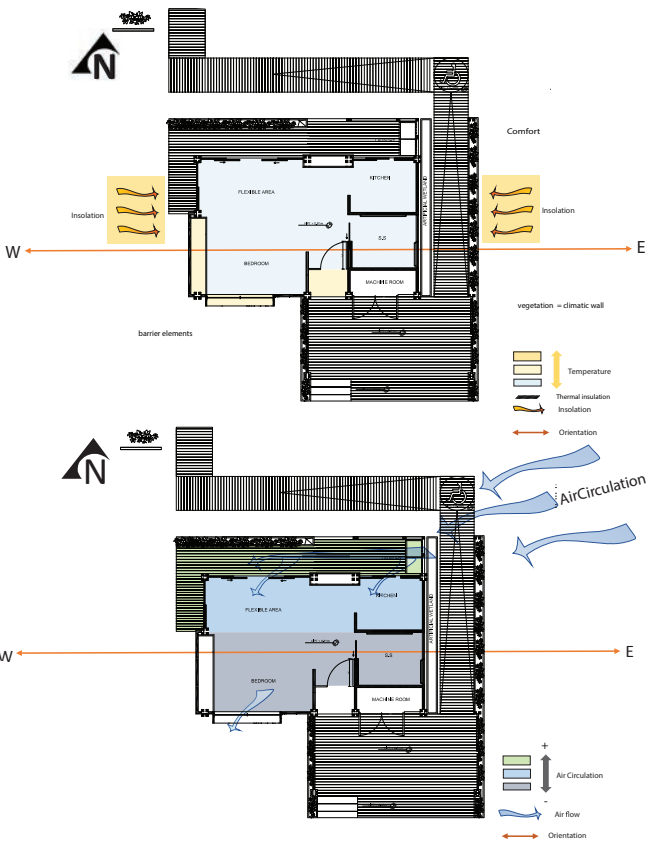
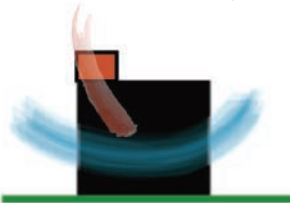
Harnessing natural lighting



Shading elements



Height extention Solar chimney



The module has been designed in order to minimize the solar heating inside the house. As a basic strategy, we decided to orientate the prototype from East to West. Facades located in these cardinal points are solid and smaller than the ones at the North or South to avoid direct solar radiation produced at dawn and dusk.

Prevailing wind in Costa Rica comes from the north-east, reason why the north facade is open in a 70% to let fresh air go into the module. Tec Team also decided to configure the internal distribution as an open space using the minimum of walls to facilitate a free airflow.

Roof is the principal element that gives us shadow by letting long eaves that protect the module from direct radiation. Other objects that we are using, and that are very popular in our country to protect windows from the sun, are the marquees and pergolas. These elements are located on South and North facades.

The prototype orientation from east to west allow us to open the space on the larger facades located at north and south. Open the north elevation in a 70% bring us the advantage to take natural light into the module avoiding direct sunbathing. At South, we open the facade only a 30% to give privacy to the bedroom and we protect windows from solar radiation with a marquee.

Tec Team has decided to raise the ceiling more than it is used in Costa Rica to accumulate hot air in a higher place, and then, expulse it by the solar chimney. This process leaves fresh air in the lower spaces, right where people are located.



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of architecture

Sheet title

Passive strategies

Content:

Bioclimatic Drawings

Scale:

Date:11/3/2014

Code:

BA-011



Costa Rica is a small country located in Central America. According with the INBio (Ndtional Institute of Biodiversity), our country poses 4% of all the living species on Earth. This is a situation given by having two oceans around us, a mountain range that creates different environments along the territory and our position in the tropics that provide stable climate conditions

The IMN(Ndtional Institute of Meteorology), in its web site, specifies that Costa Rica is divided in two climatic regions: the first one has an influence from the Pacific Ocean and it is known for having two established seasons: a dry season that goes from December to March, and a rainy one that goes from April to November, being April a transition month. Temperatures in this region can go until about 32°C Instead, Caribbean region is extremely damp and has a rainy season that last almost the whole year.

The central zone of the country, for having more altitude, has fresh temperatures between 16.5°C and 27°C, and go down until 14°C in zones above 2500m, according with IMN.This land is fertile and, because of its favorable conditions, shelters the biggest amount of population.

Prevailing wind in Costa Rica comes from the north-east the whole year and does not reach a speed over 15 km/h, but in January and February, when it can go over 30km/h.



América

Western Hemisphere

Central America

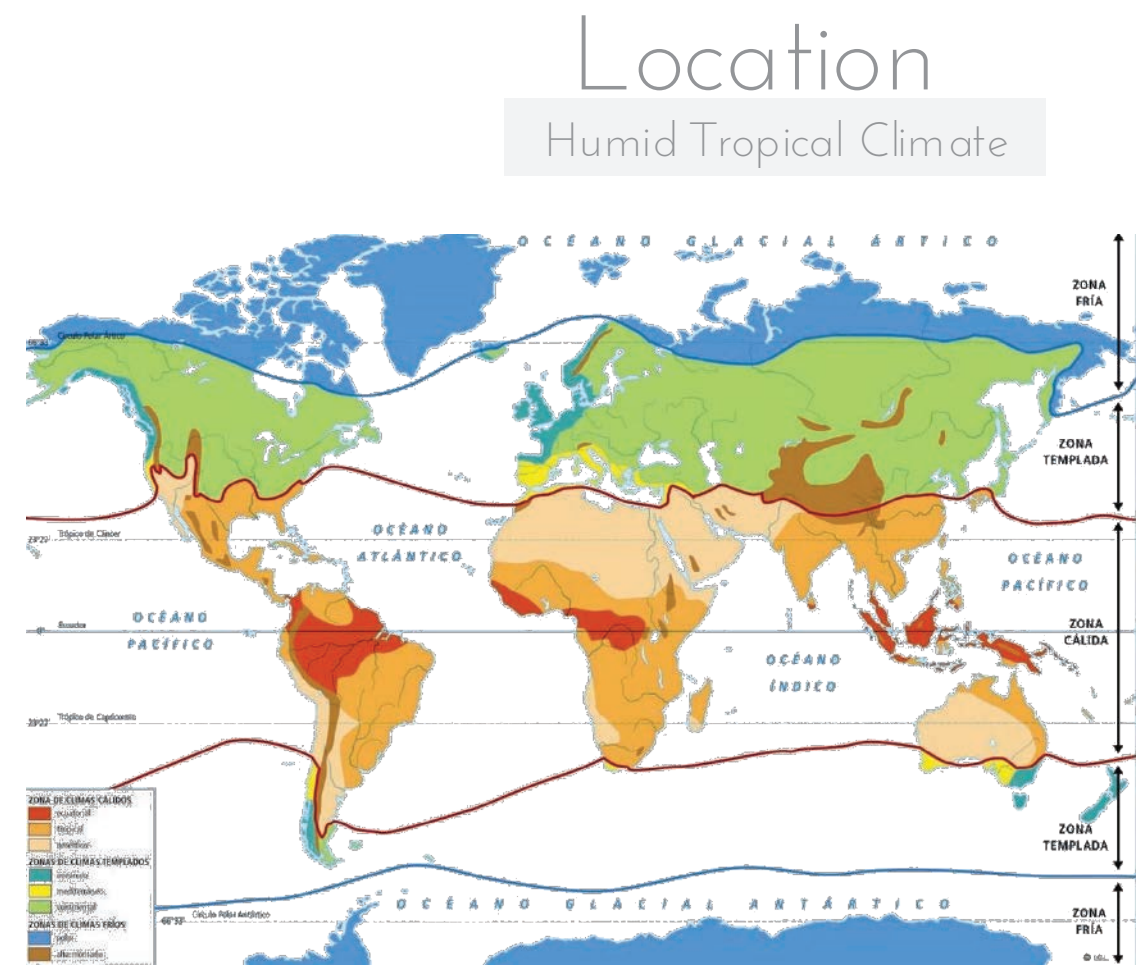
Northern Hemisphere

Costa Rica

Coordinates  
9° 56' 0" N, 84° 5' 0" W  
Central Valley at 1300 msnm

San José City

1st Avenue  
4th Street



Deliverable #7

Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of architecture

Sheet title

Passive strategies

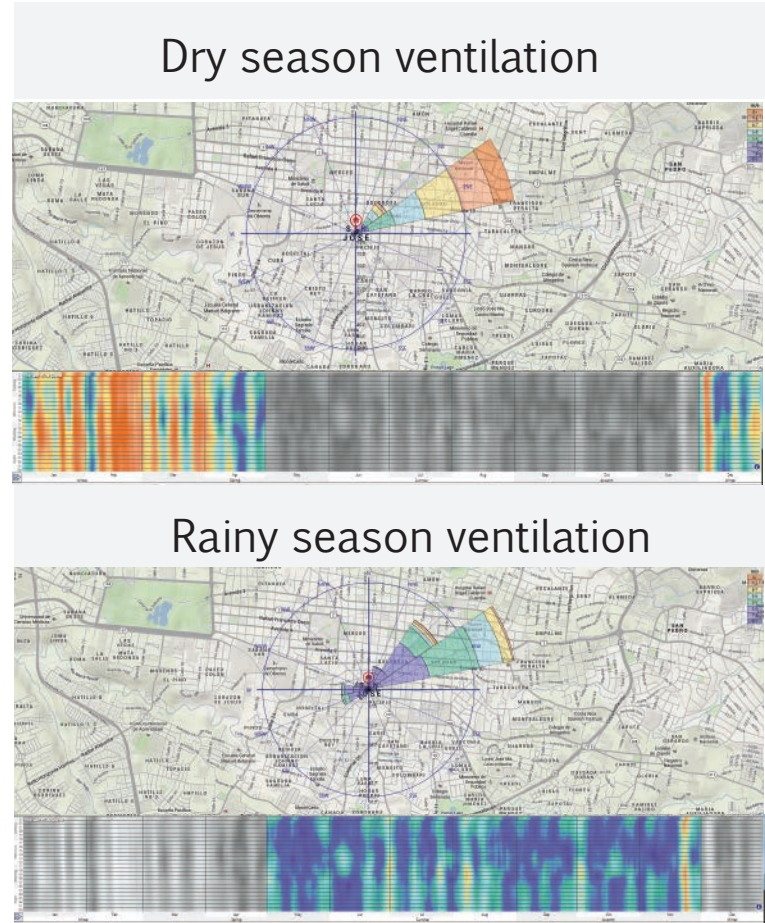
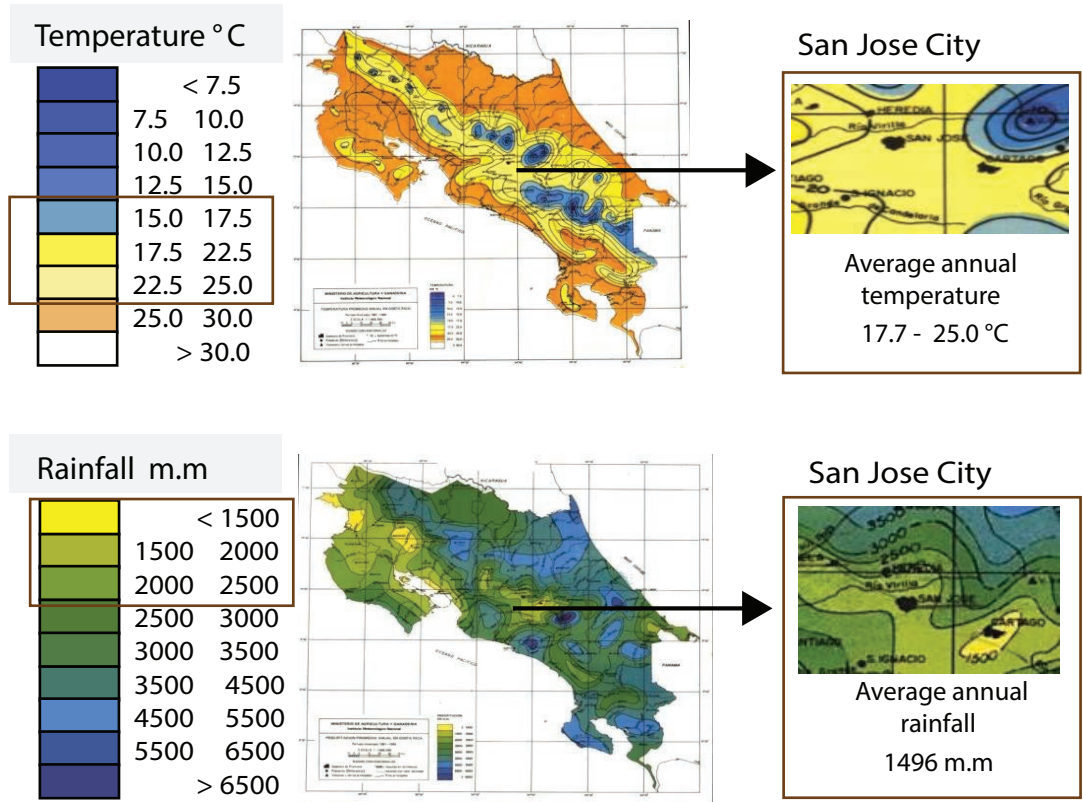
Content:

Bioclimatic Drawings

Scale:

Date:11/3/2014

Code: BA-012



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

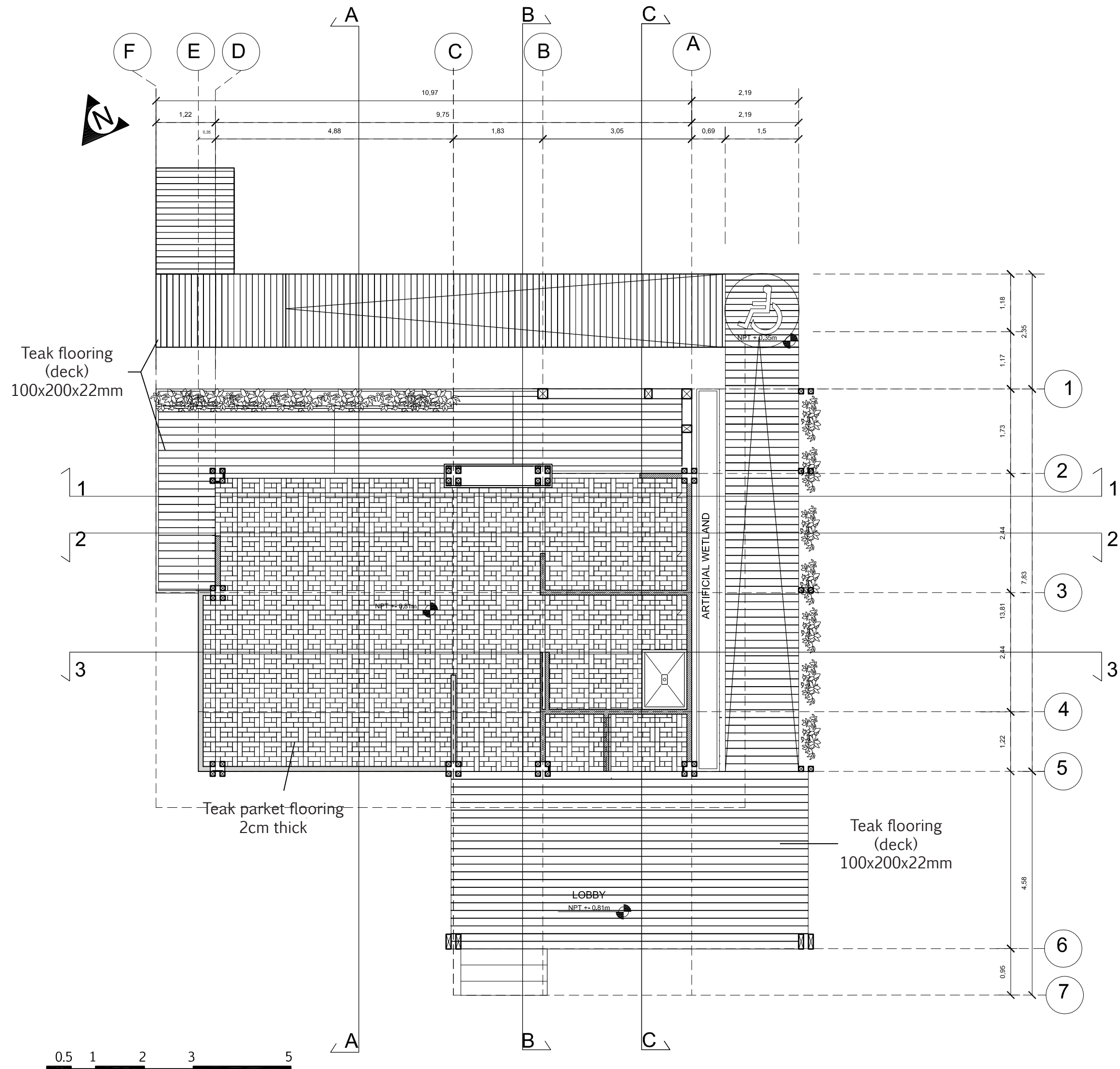
Floor

Content: -Floor plan

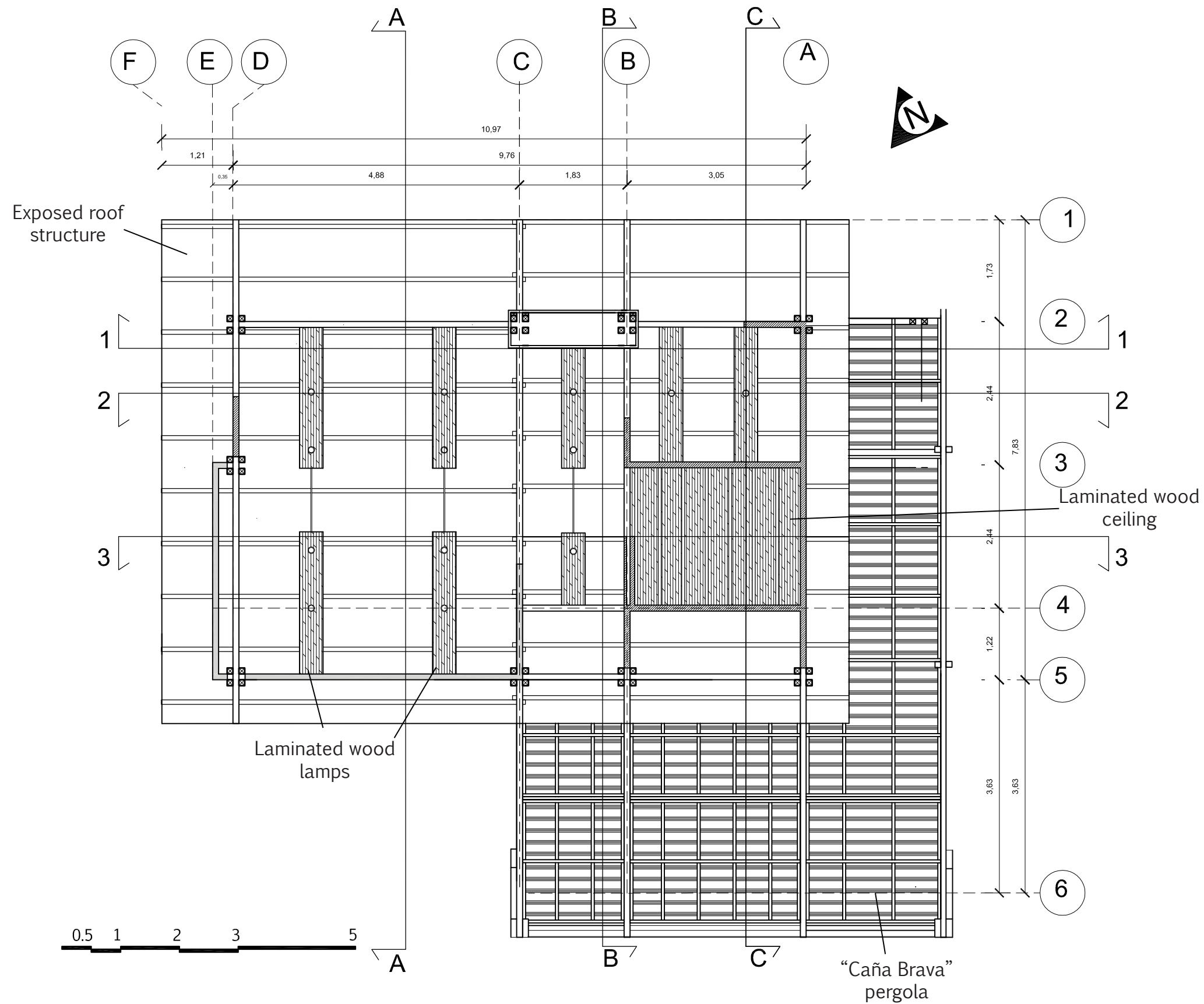
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Date: 11/3/2014

Code: IN-001







**Deliverable #7**  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

Reflected ceiling

Content: -Reflected ceiling plan

Scale: 1:75

Date: 11/3/2014

Code: IN-101



Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

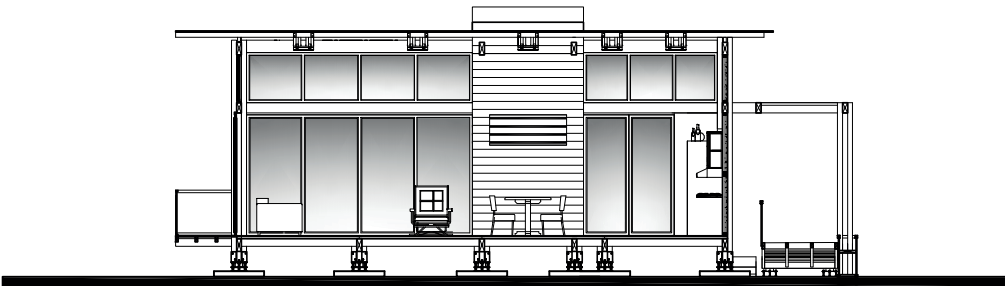
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Elevations

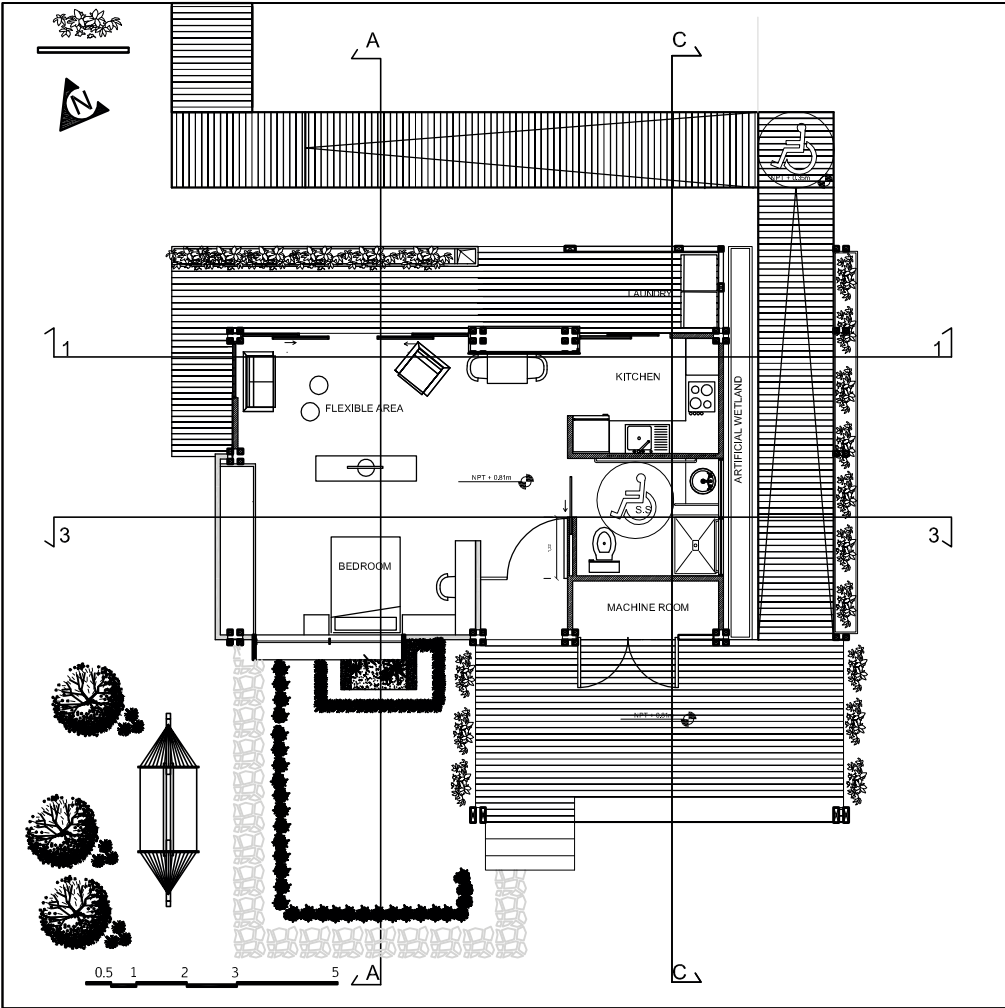
Content: -Interior elevations

Scale: 1:150      Date: 11/3/2014

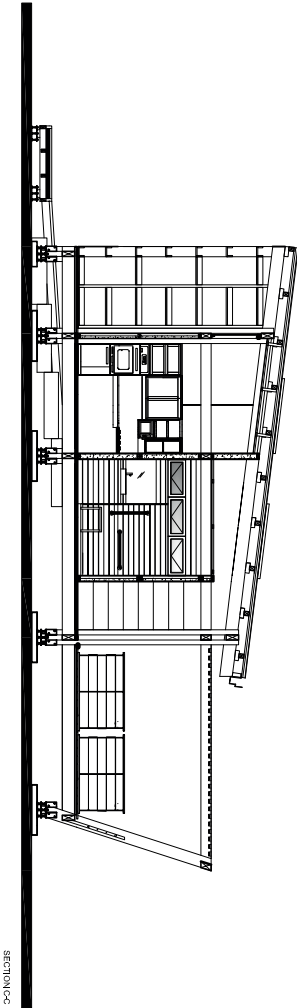
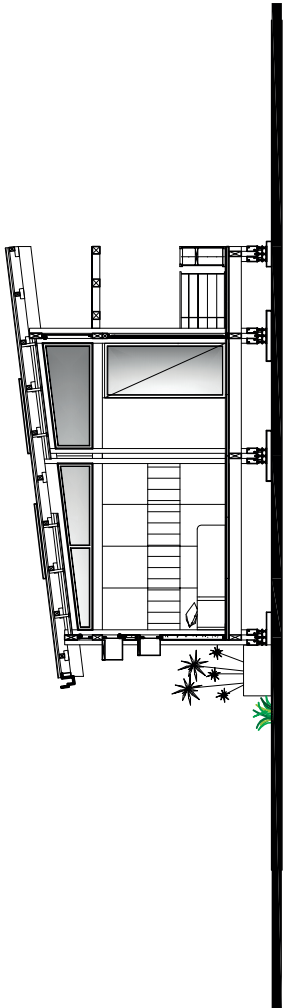
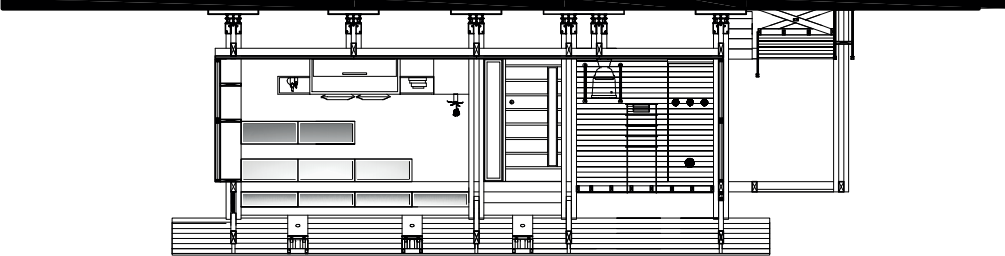
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SECTION 1-1



SECTION 3-3



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
architecture

Sheet title

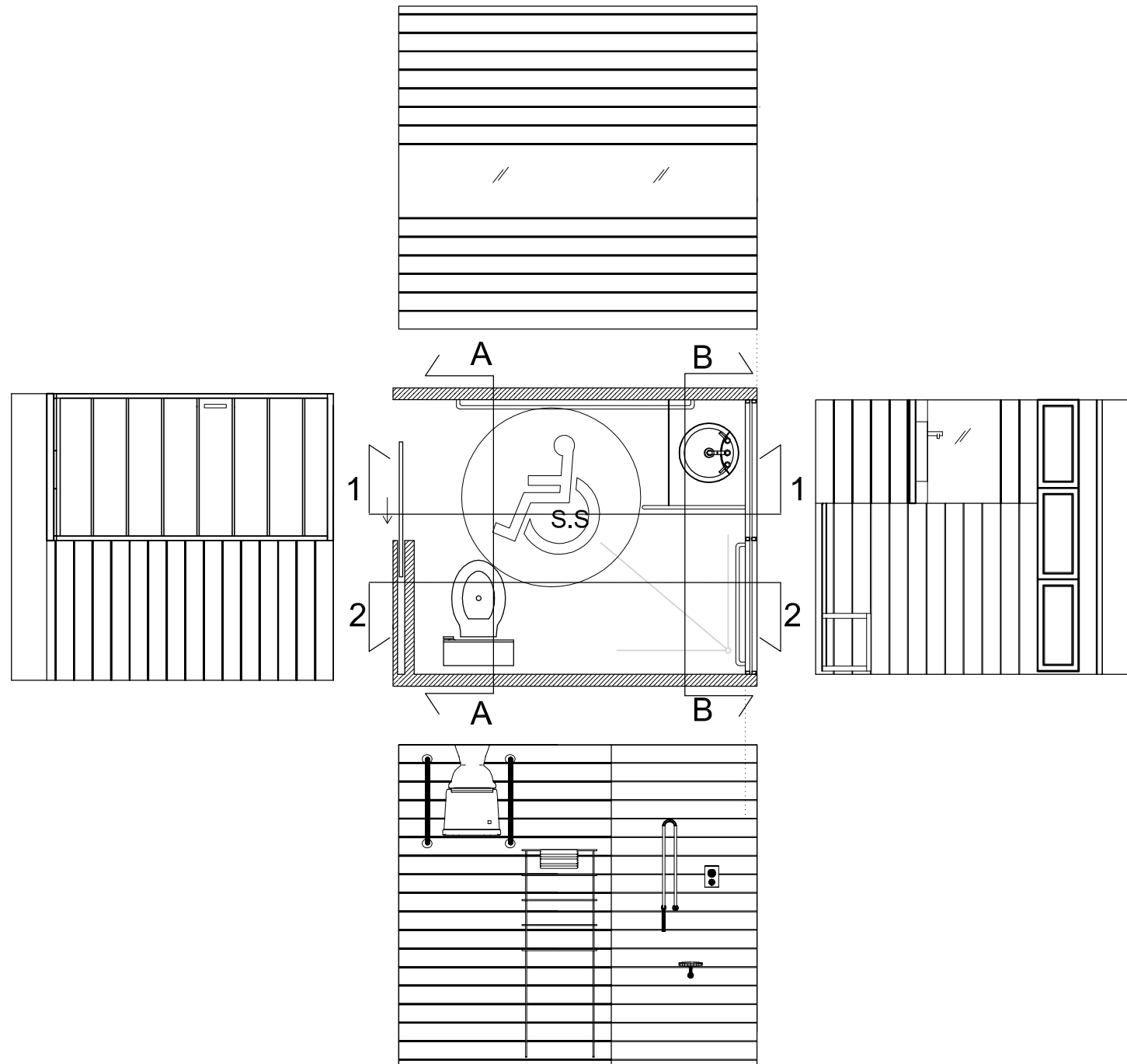
Elevations

Content: -Bathroom interior  
elevations

Scale: 1:50

Date: 11/3/2014

Code: IN-202



Deliverable #7  
Project Drawings

Project: Trópika  
Team: Tec Team  
Country: Costa Rica  
Professional seal:

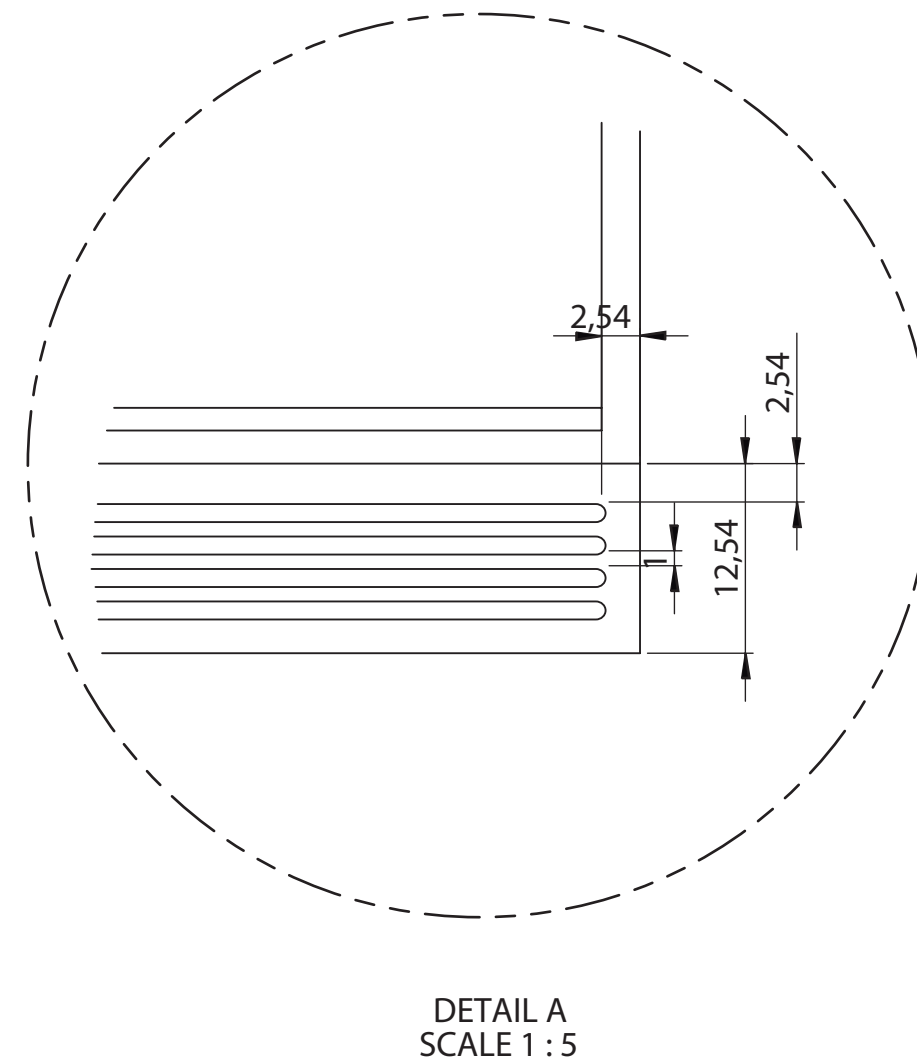
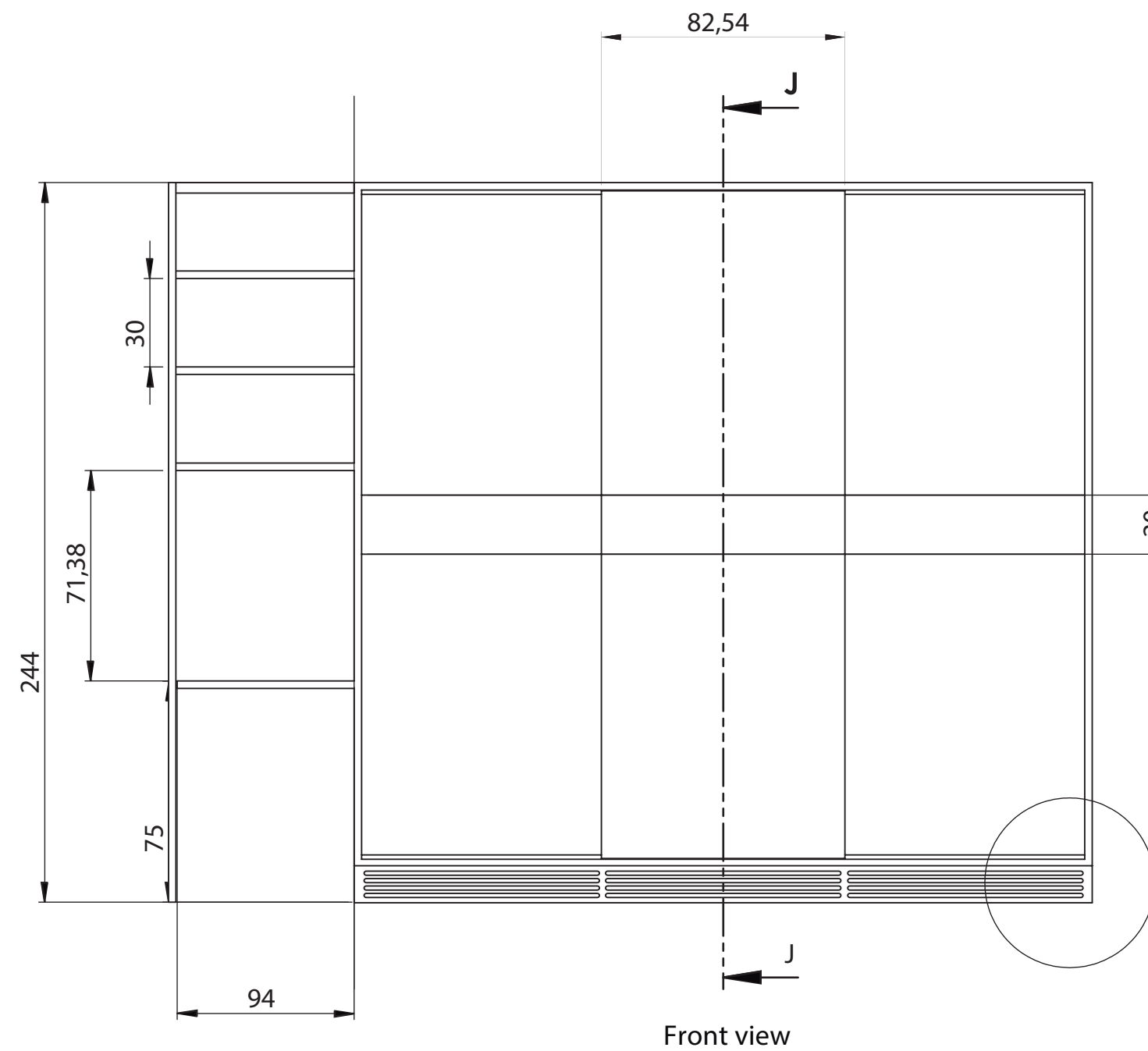
Made by: Department of design

Sheet title  
Furnishings

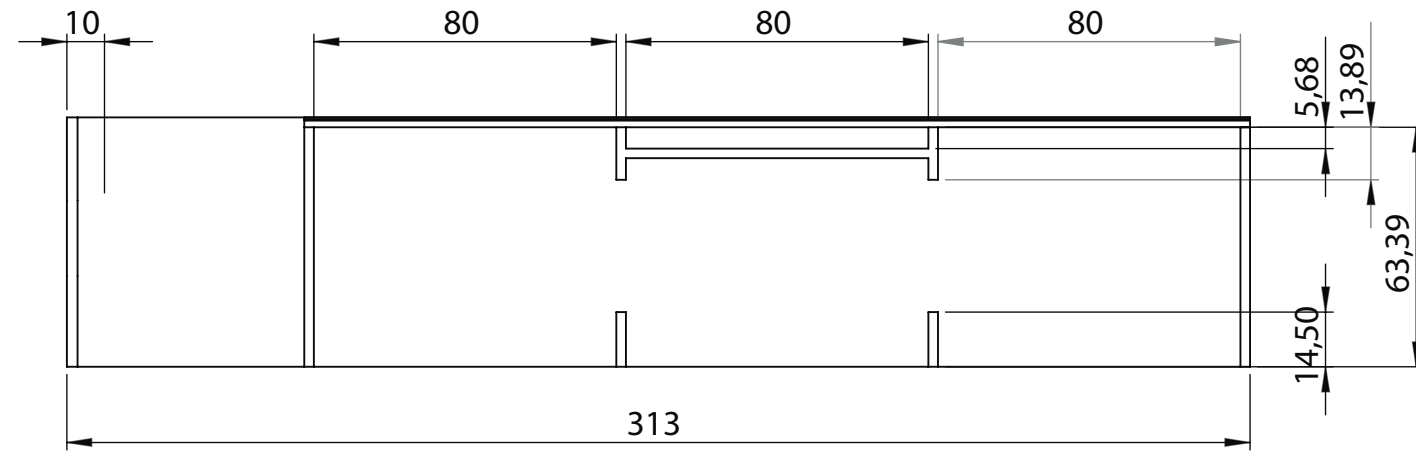
Content: Closet Elevations

Scale: 1:20      Date: 11/3/2014

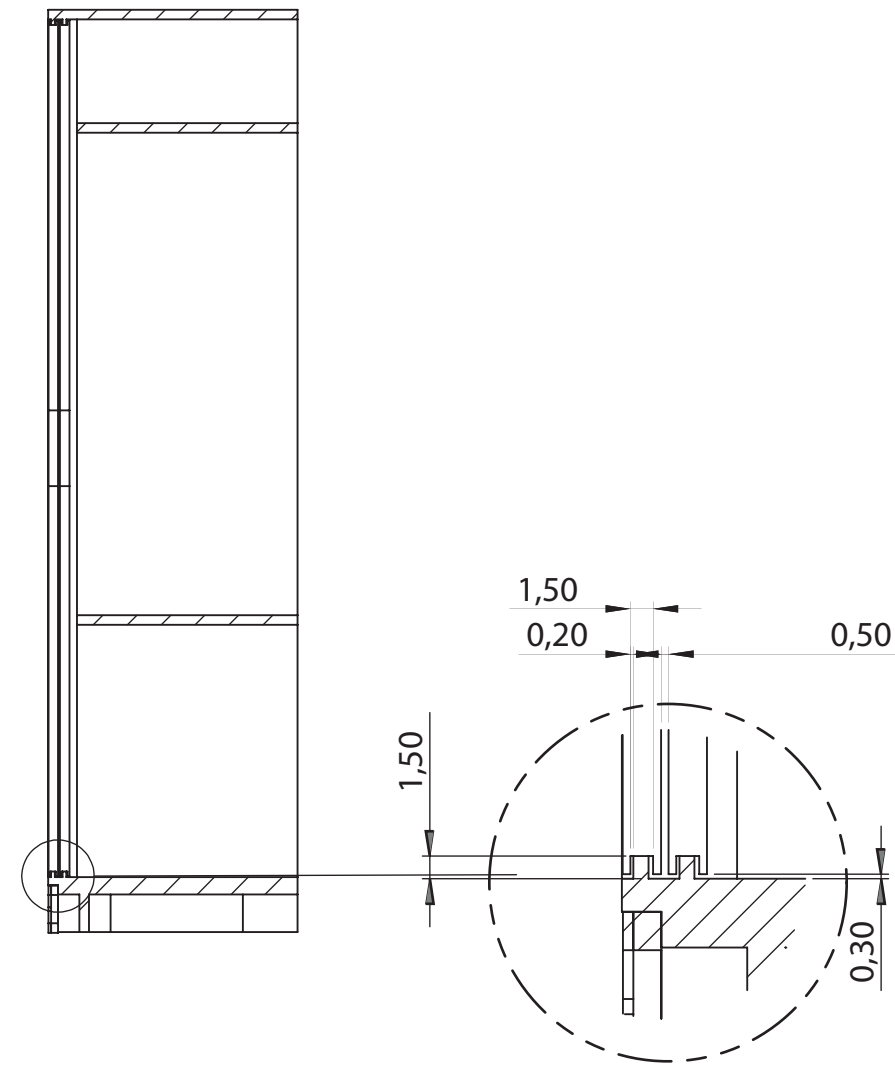
Code: IN-301







Bottom view



SECTION J-J

DETAIL K  
SCALE 1:5



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

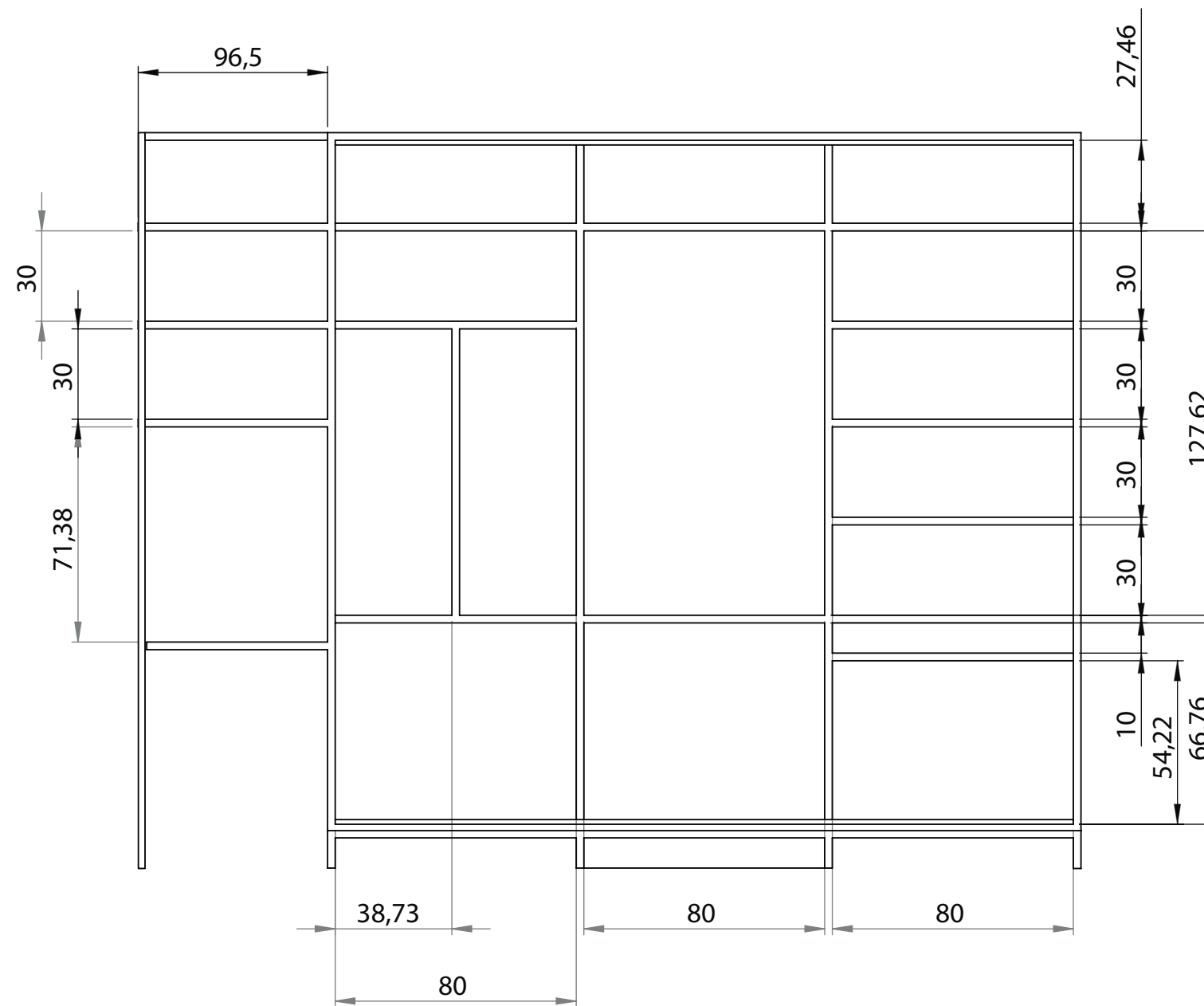
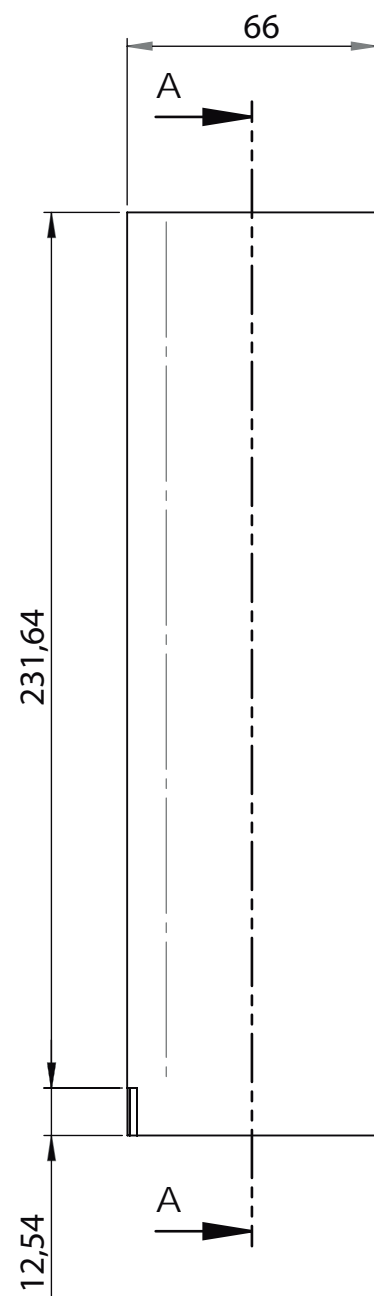
Furnishings

Content: Closet Elevations

Scale: 1:20

Date: 11/3/2014

Code: IN-302



SECTION A-A

Front view



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

Furnishings

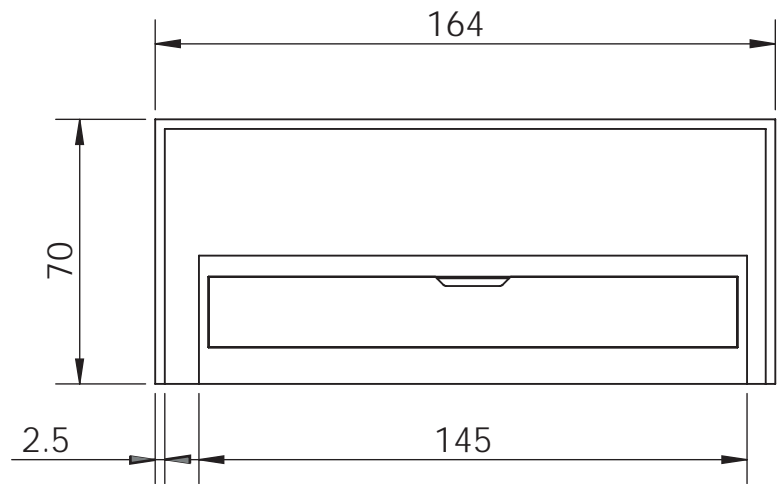
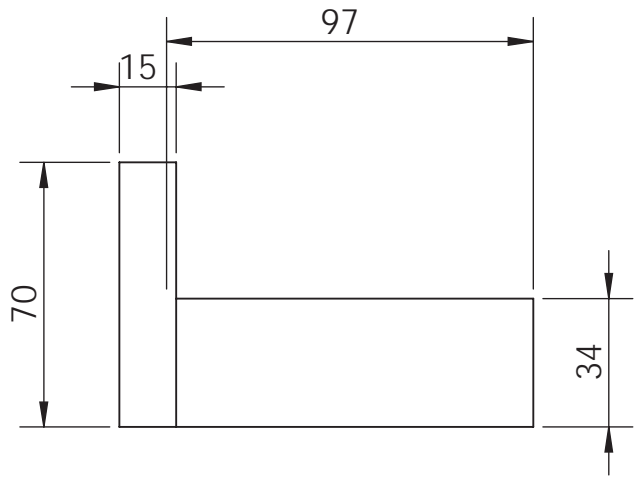
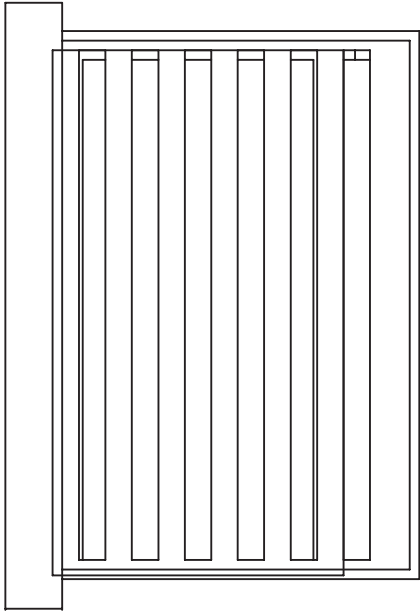
Content: Closet Elevations

Scale: 1:20

Date: 11/3/2014

Code:

IN-303



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of design

Sheet title

Furnishings

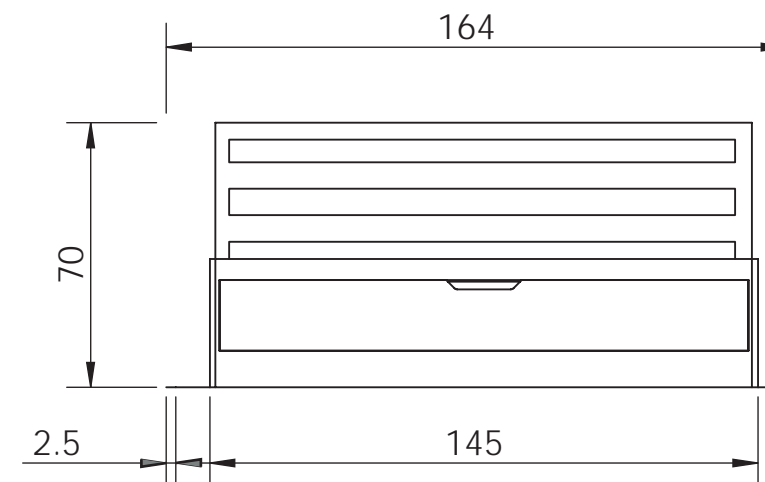
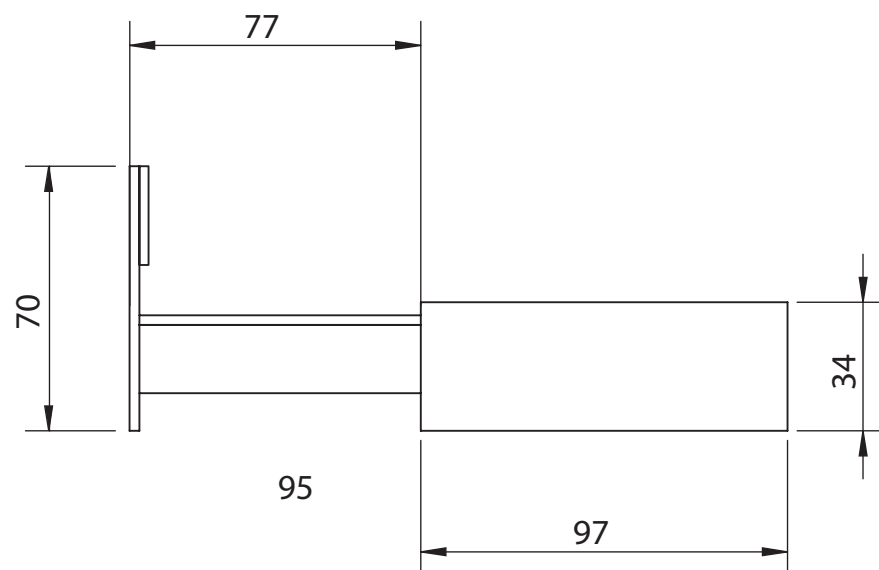
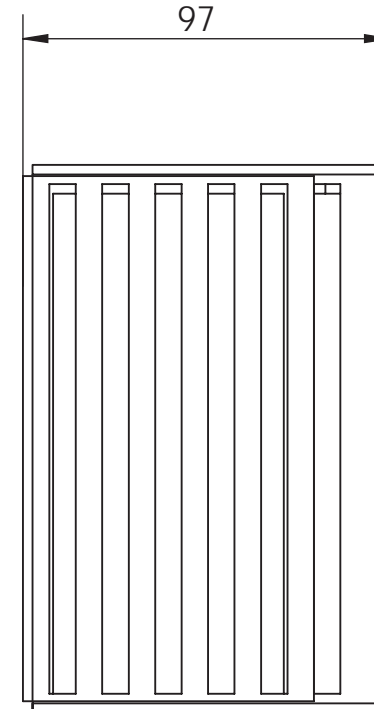
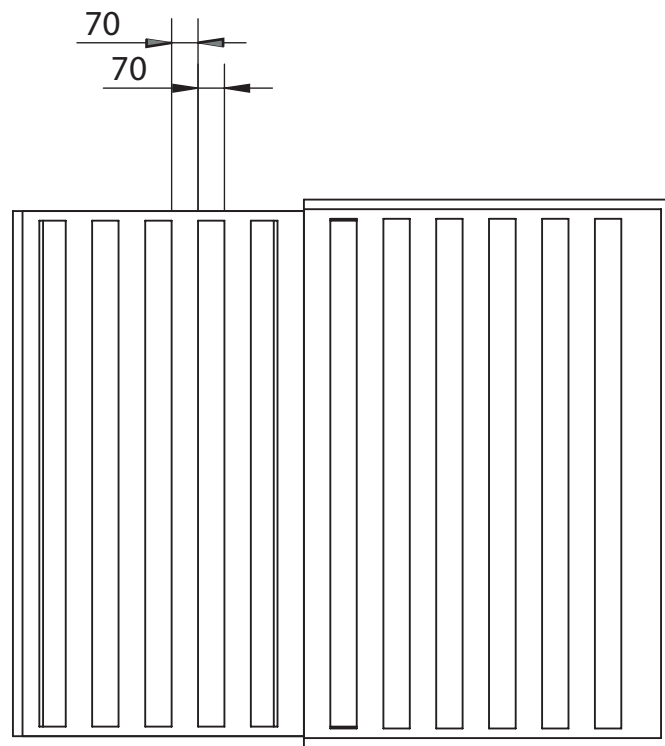
Content: Bed Elevations

Scale: 1:20

Date: 11/3/2014

Code: IN-304





# Deliverable #7 Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of design

Sheet title

Furnishings

Content: Bed Elevations

Scale: 1:20

Date: 11/3/2014

Code: IN-305



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

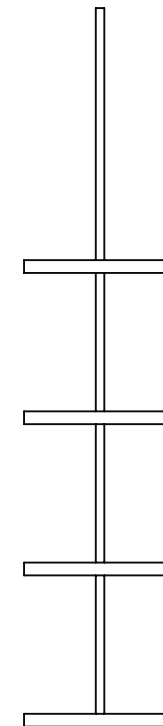
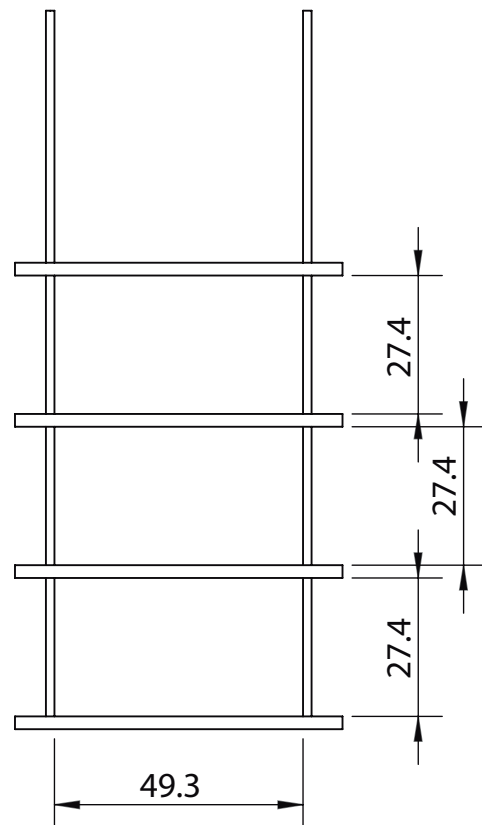
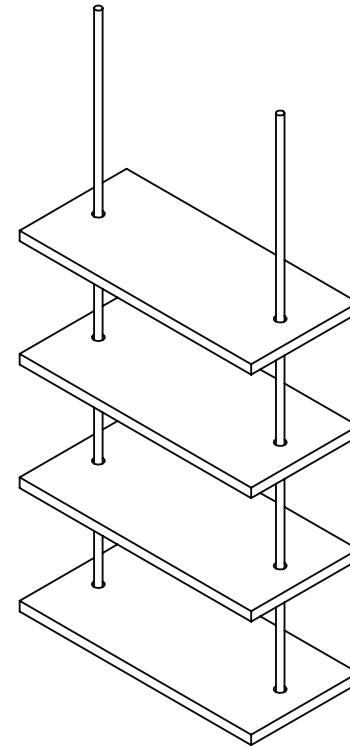
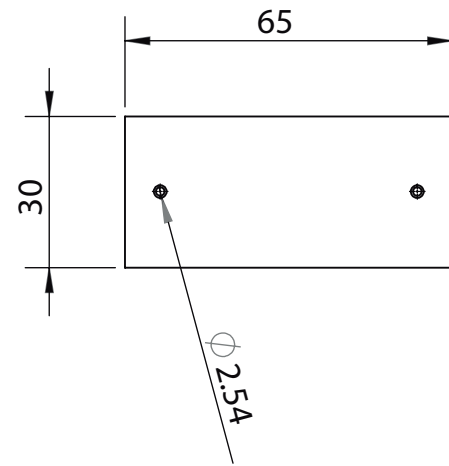
Furnishings

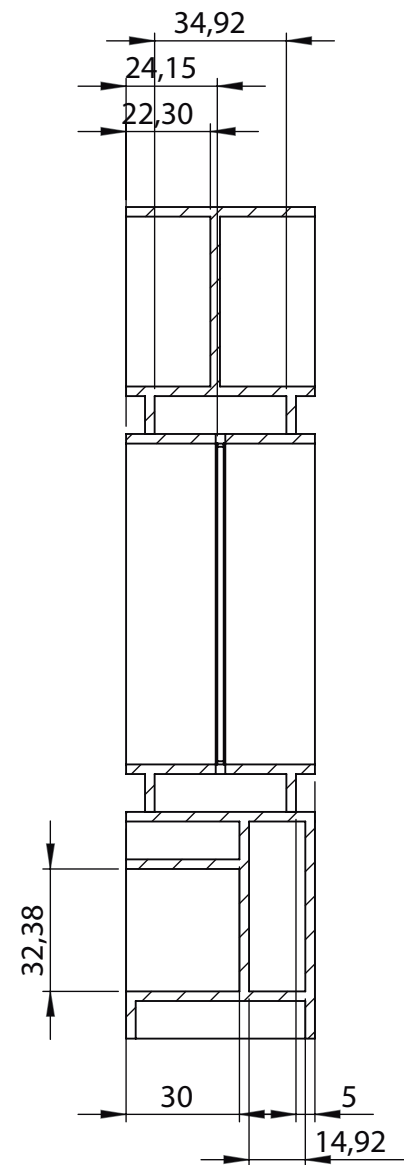
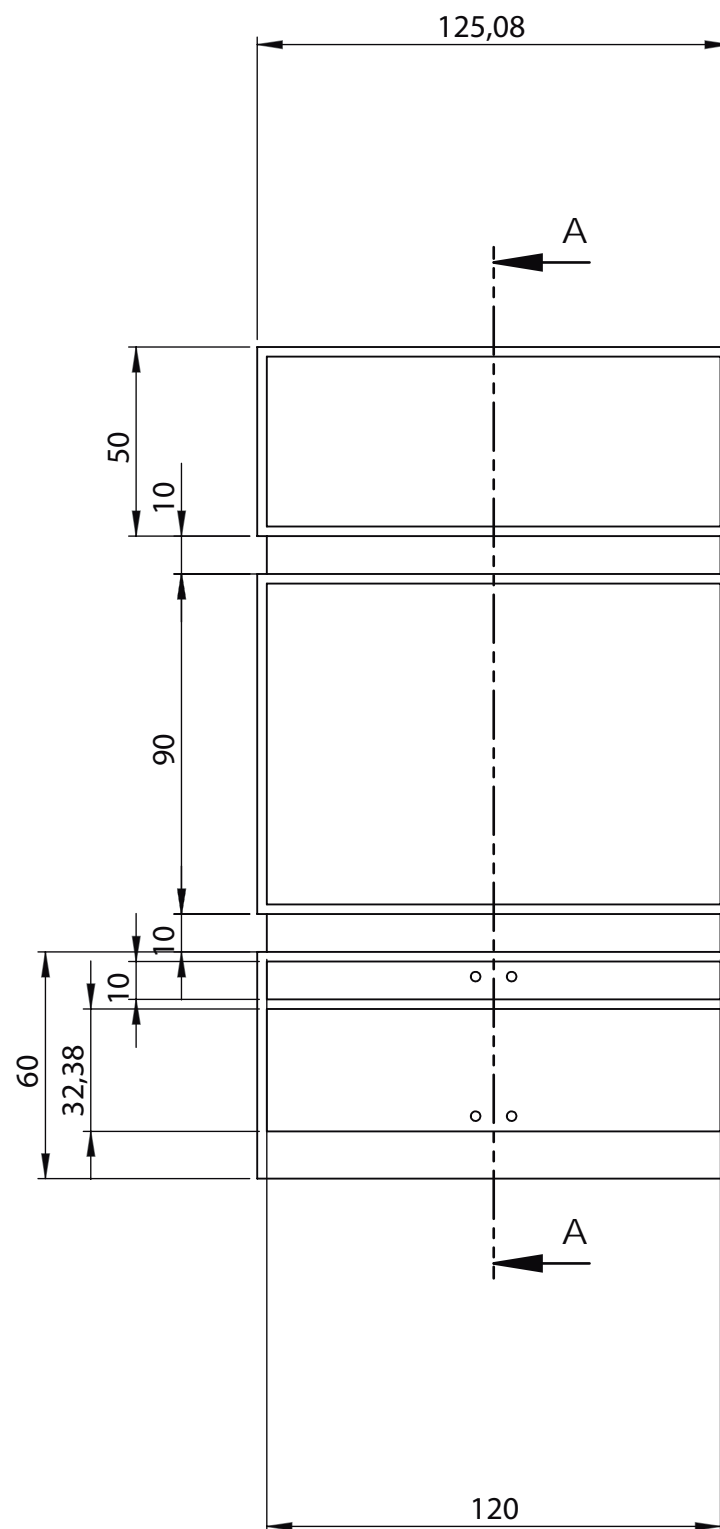
Content: Shelves Elevations

Scale: 1:20

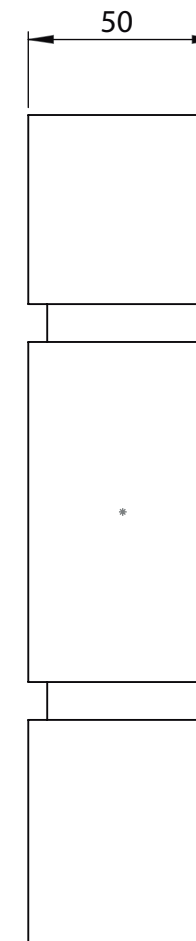
Date: 11/3/2014

Code: IN-306





SECTION A-A



# Deliverable #7 Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

Furnishings

Content: Television stand  
elevations

Scale: 1:20

Date:11/3/2014

Code: IN-307



Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

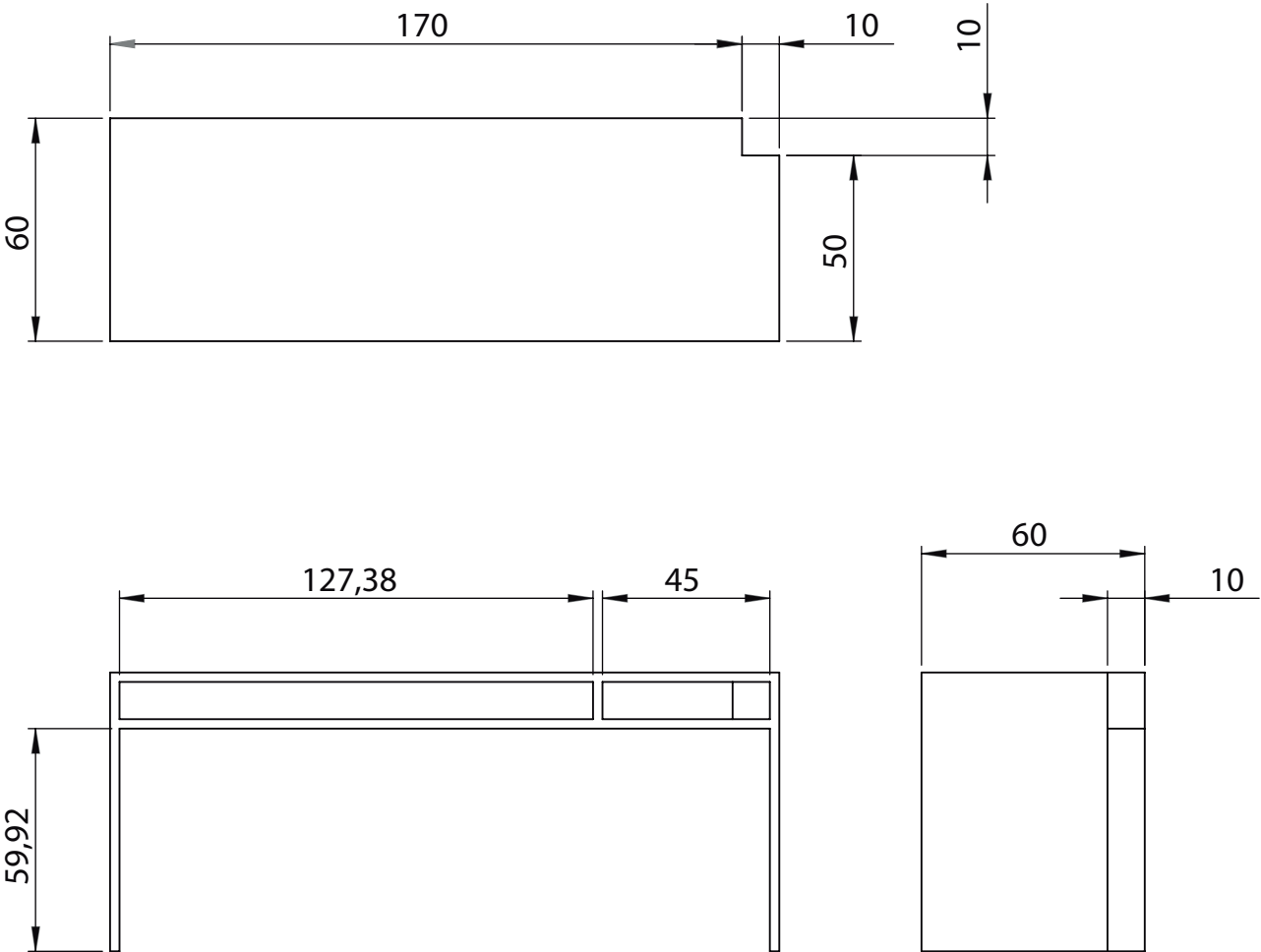
Furnishings

Content: Desk Elevations

Scale: 1:50

Date: 11/3/2014

Code: IN-308



**Deliverable #7**  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

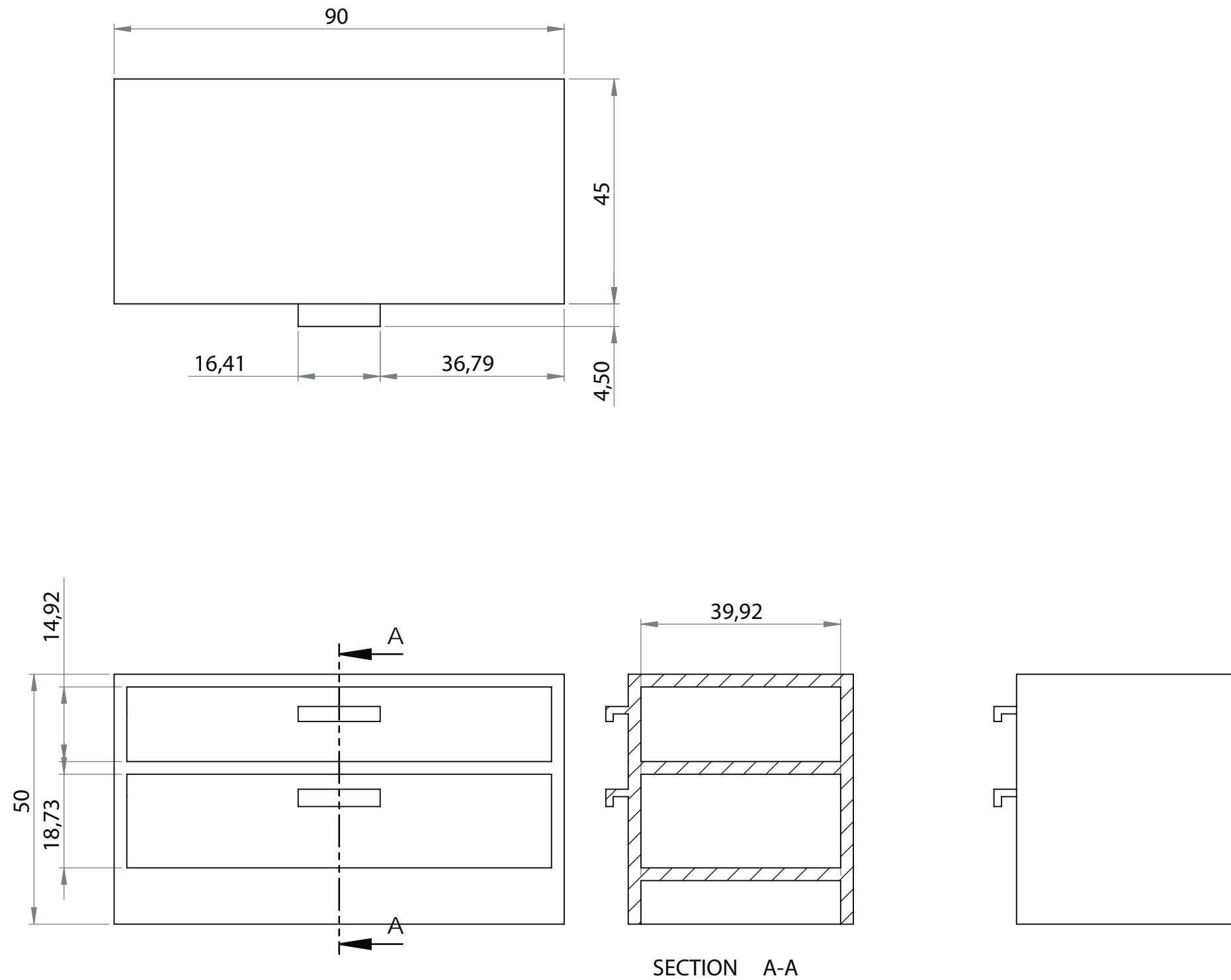
Furnishings

Content: Night stand elevations

Scale: 1:10

Date:

Code: IN-309



Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of design

Sheet title

Furnishings

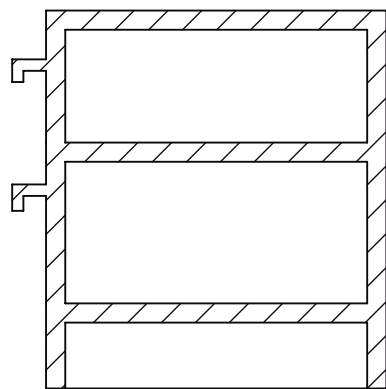
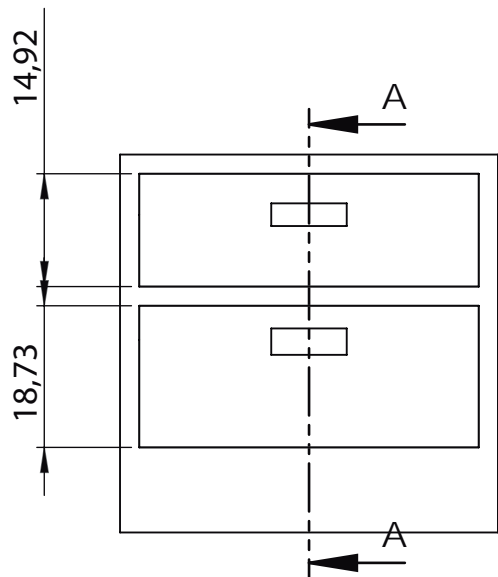
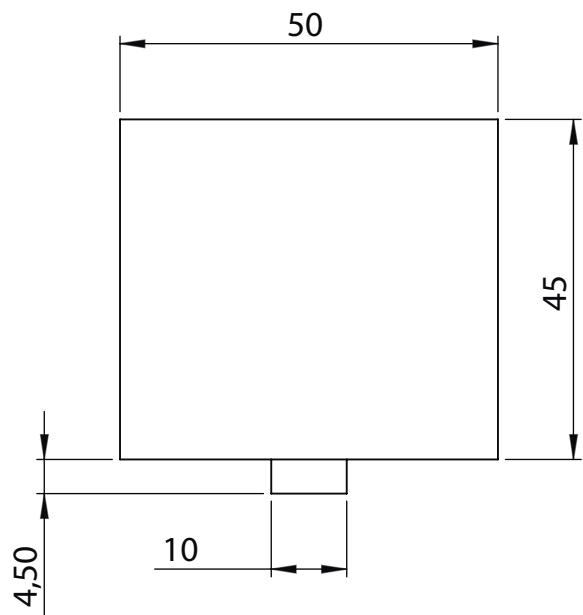
Content: Night Stand Elevations

Scale: 1:10

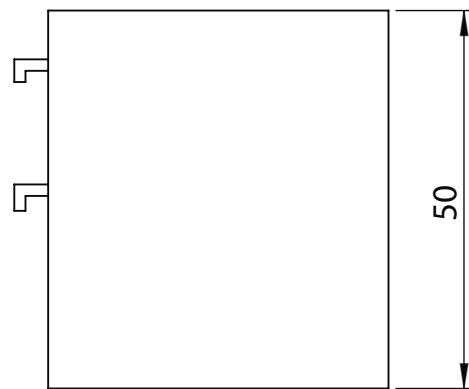
Date: 11/3/2014

Code:

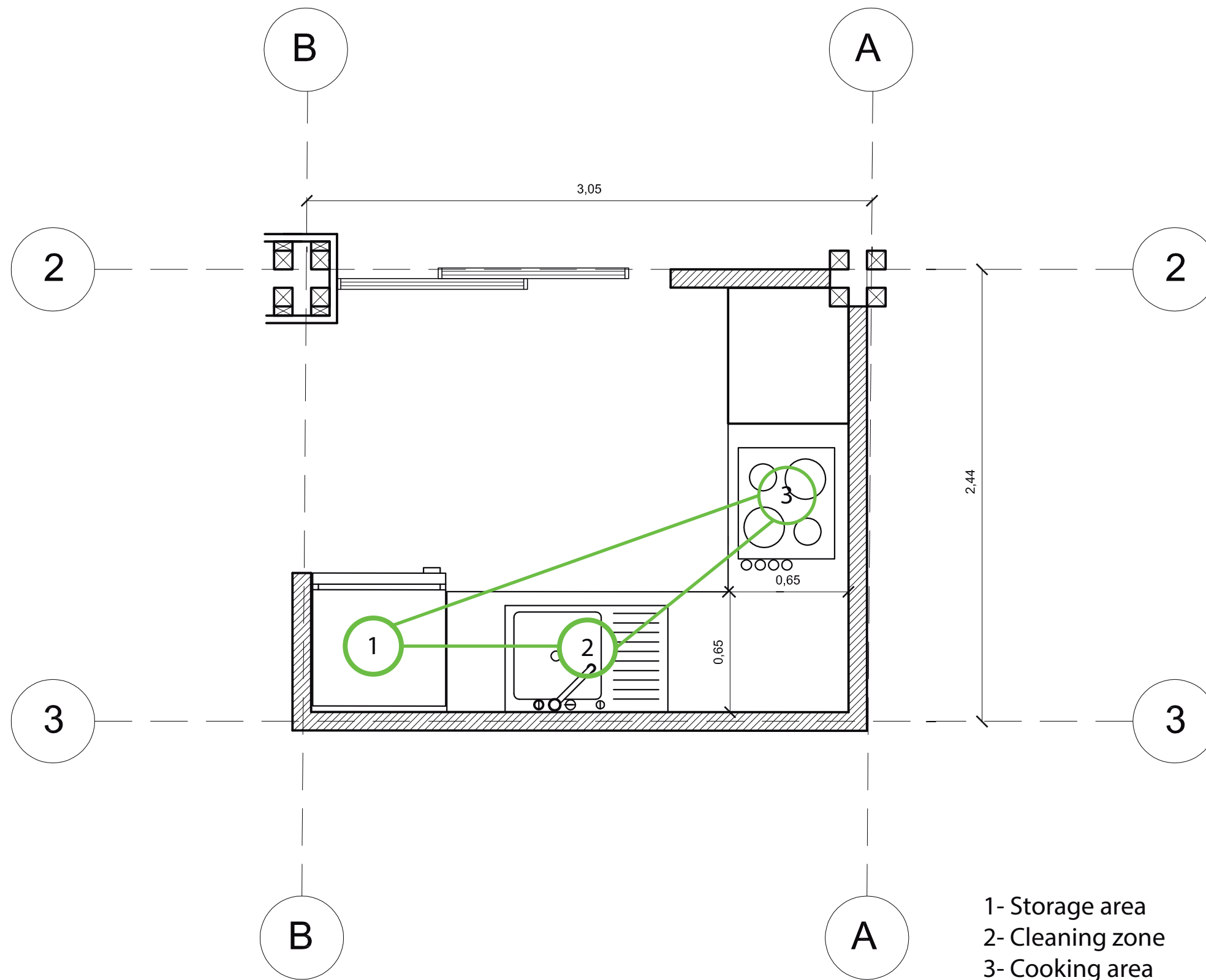
IN-3010



SECTION A-A







# Deliverable #7 Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of design

Sheet title

Kitchen plan

Content:

Kitchen plan

Scale: 1:18

Date: 11/3/2014

Code: IN-401

**Deliverable #7**  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

Kitchen plan

Content:

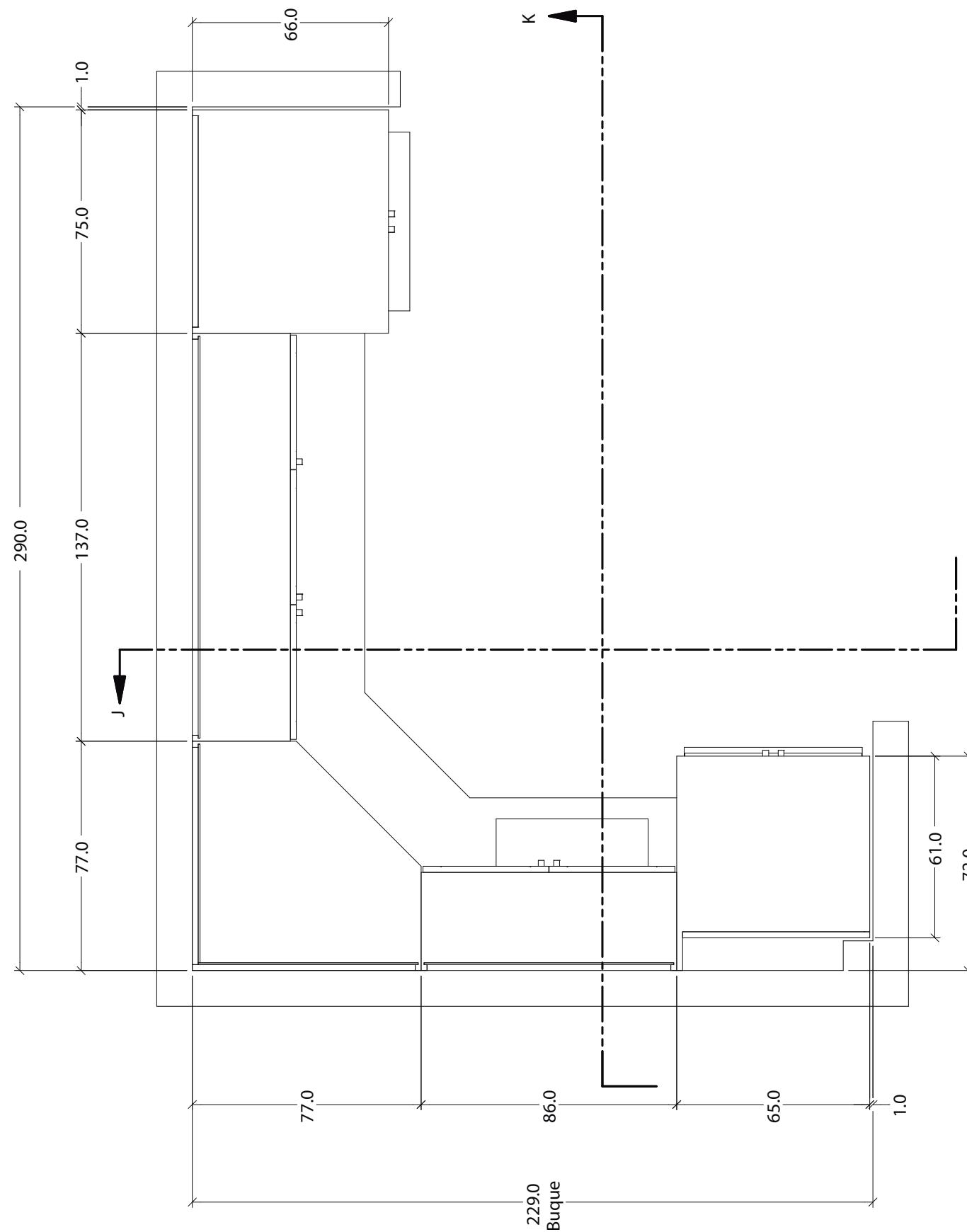
Kitchen plan

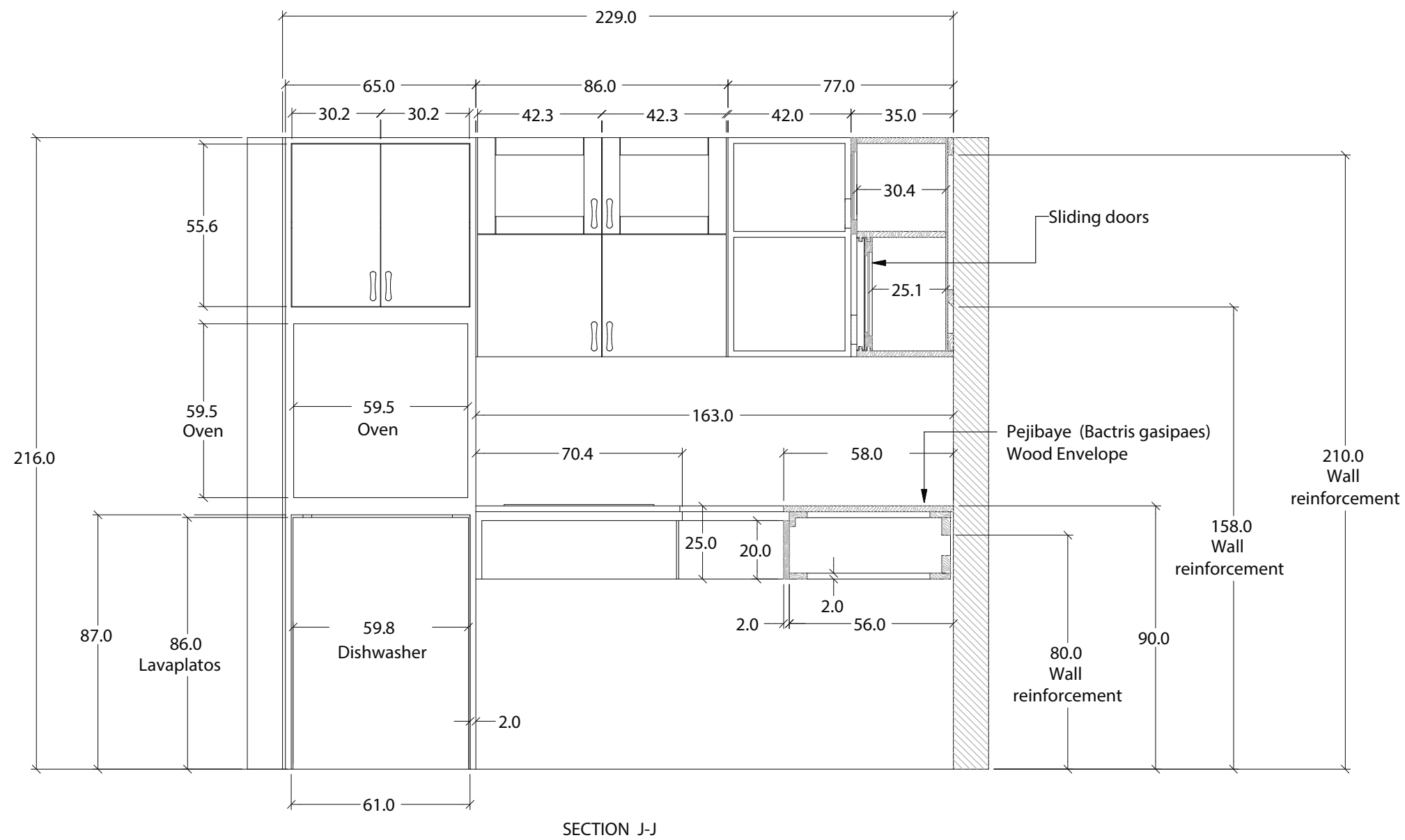
Scale: 1:18

Date: 11/3/2014

Code:

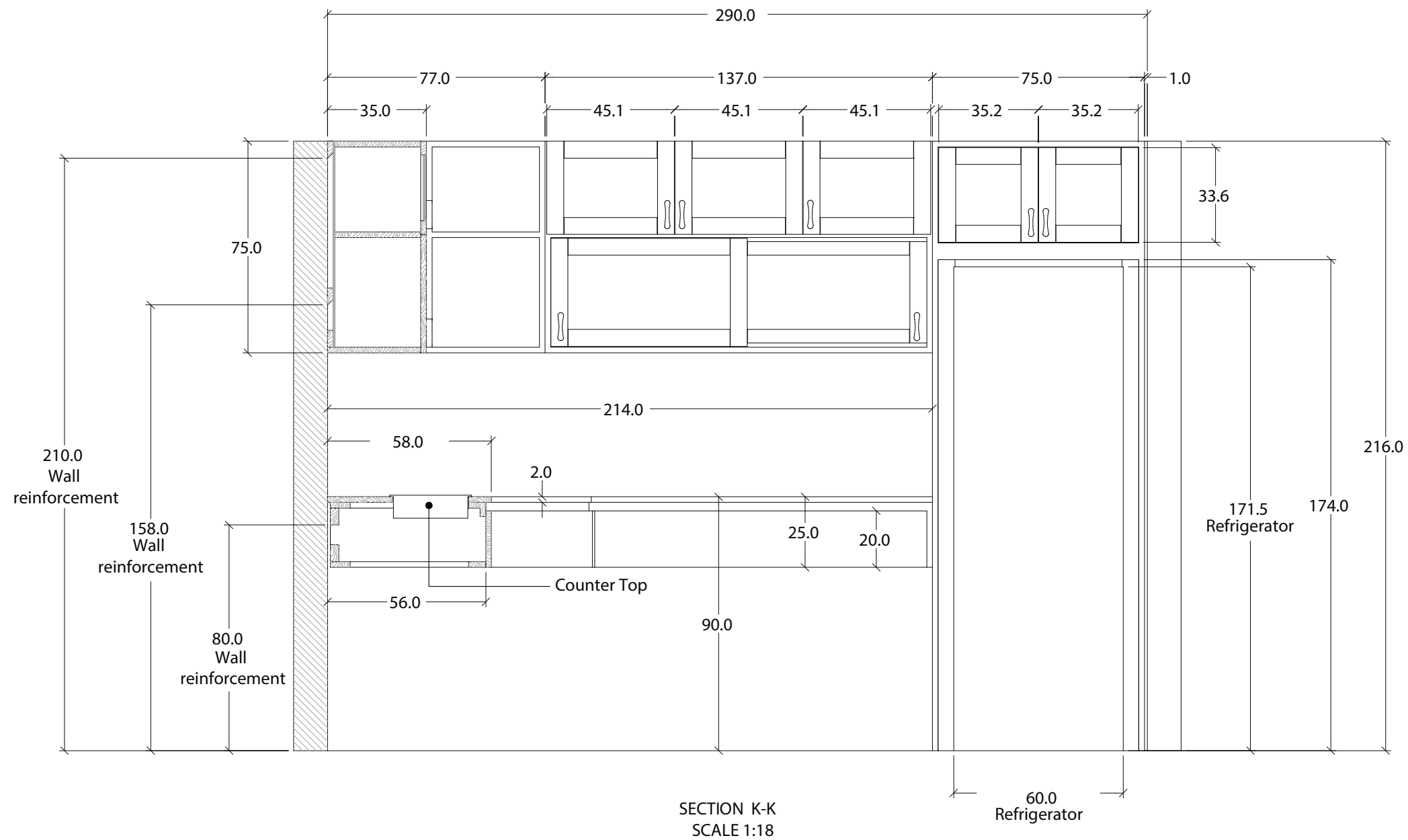
IN-402





Deliverable #7 Project Drawings	
Project:	Trópika
Team:	Tec Team
Country:	Costa Rica
Professional seal:	
Made by:	Department of design
Sheet title	Kitchen Elevations
Content:	Kitchen Elevations
Scale:	1:18
Date:	11/3/2014
Code:	IN-411





Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

Kitchen Elevations

Content:

Kitchen Elevations

Scale: 1:18

Date: 11/3/2014

Code:

IN-412

Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

Kitchen Elevations

Content:

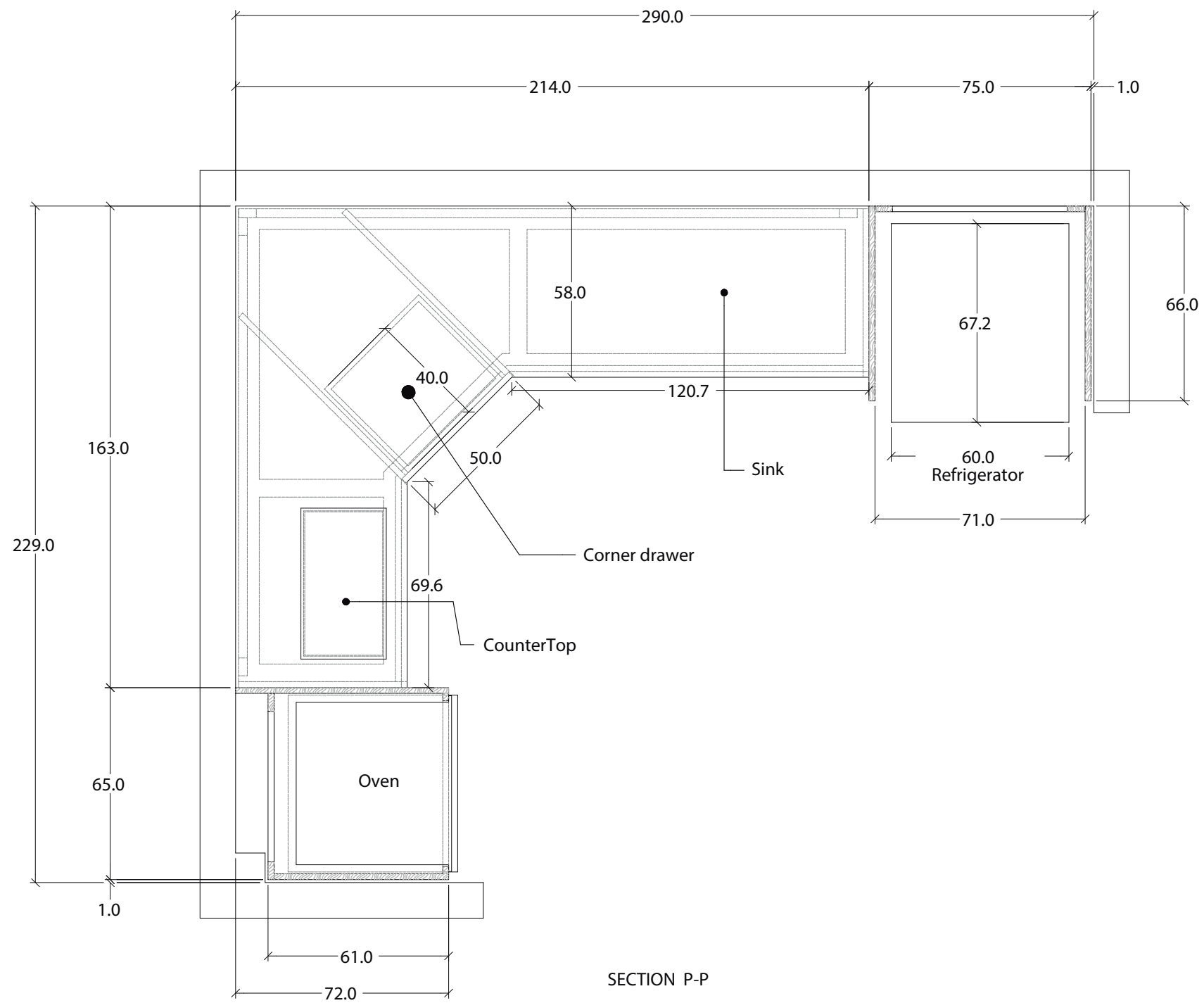
Kitchen Elevations

Scale: 1:18

Date: 11/3/2014

Code:

IN-413



Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of design

Sheet title

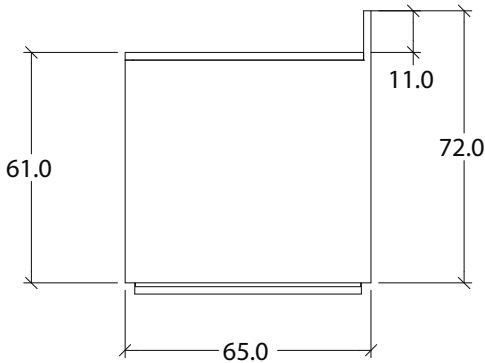
Kitchen Elevations

Content:  
Kitchen Elevations

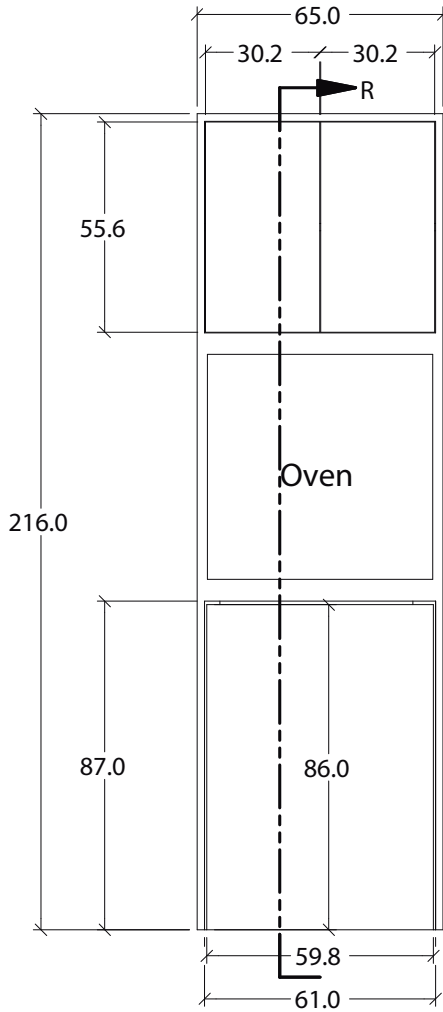
Scale: 1:20

Date: 11/3/2014

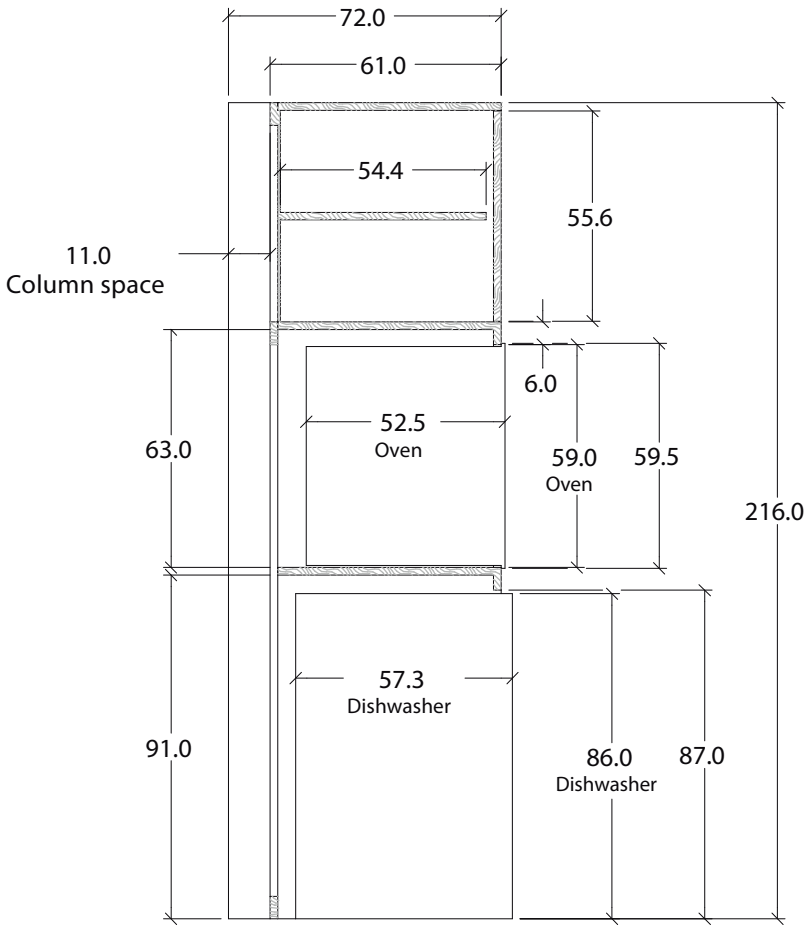
Code: IN-414



Top view



Front View



SECTION R-R

Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of design

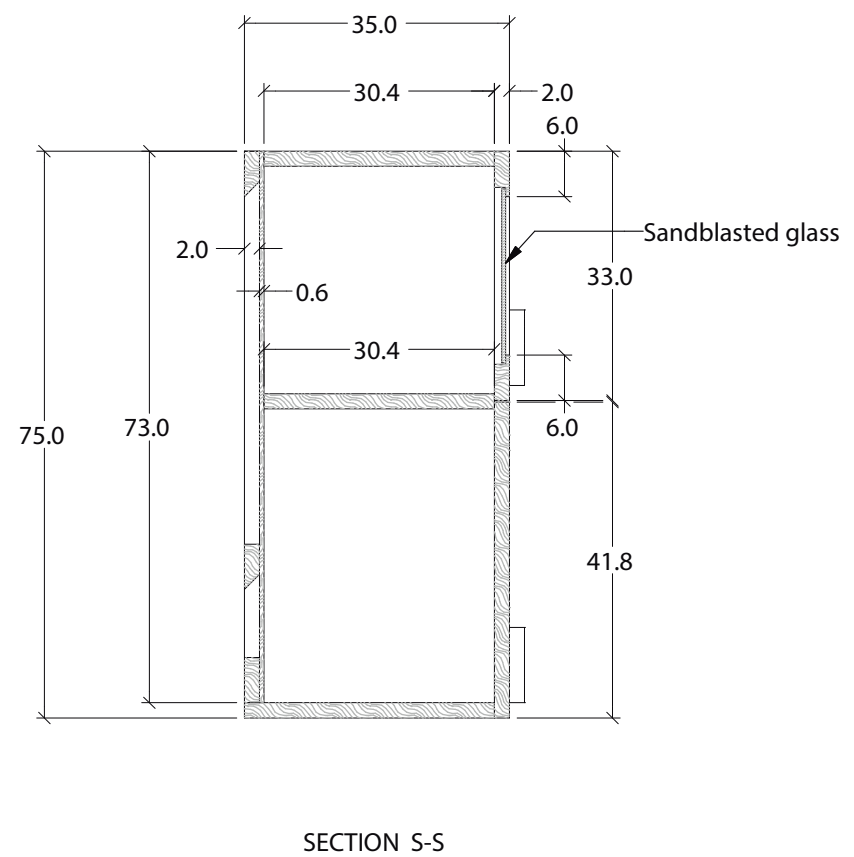
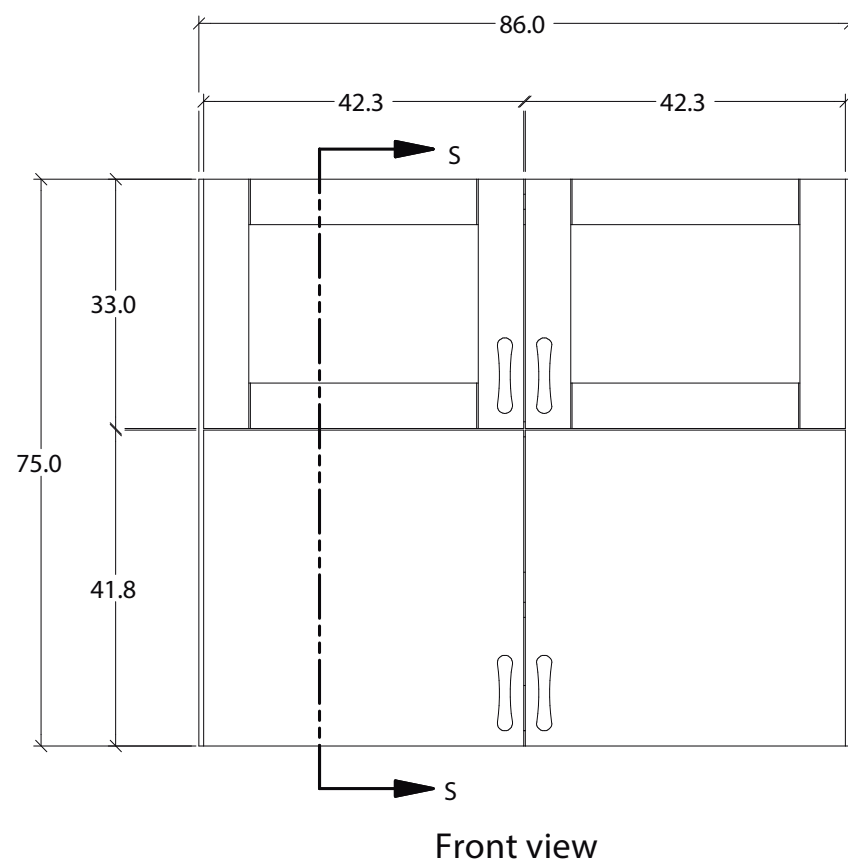
Sheet title

Kitchen Elevations

Content:  
Kitchen Elevations

Scale: 1:10      Date: 11/3/2014

Code: IN-415







Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

Kitchen Elevations

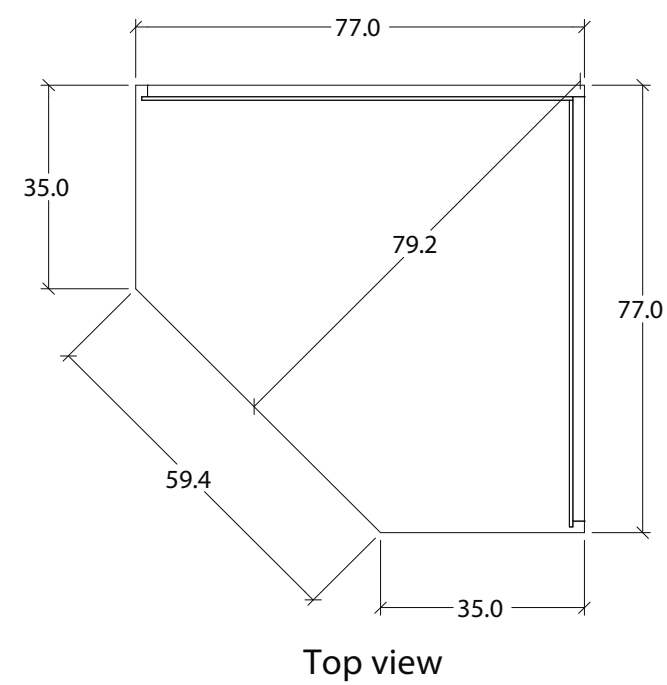
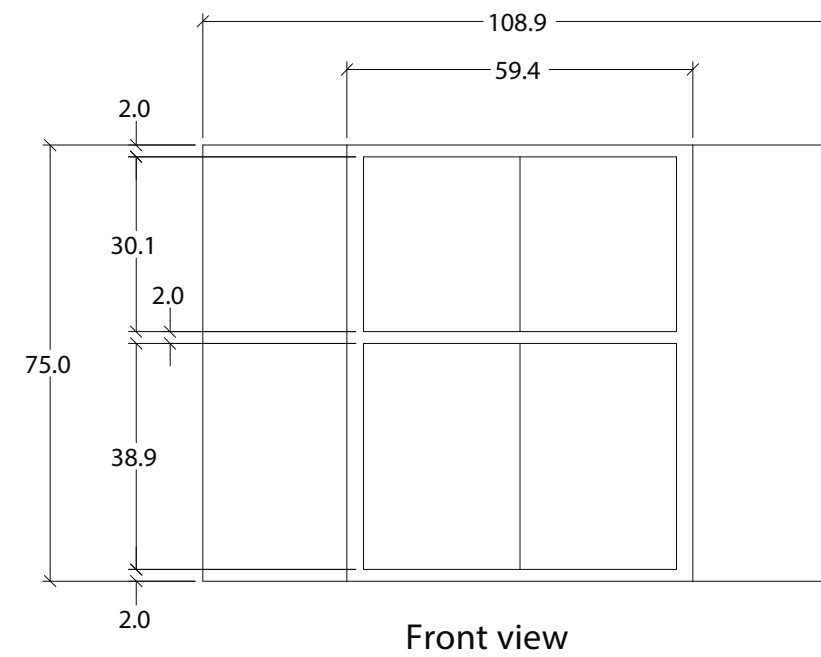
Content:

Kitchen Elevations

Scale: 1:10

Date: 11/3/2014

Code: IN-416



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of design

Sheet title

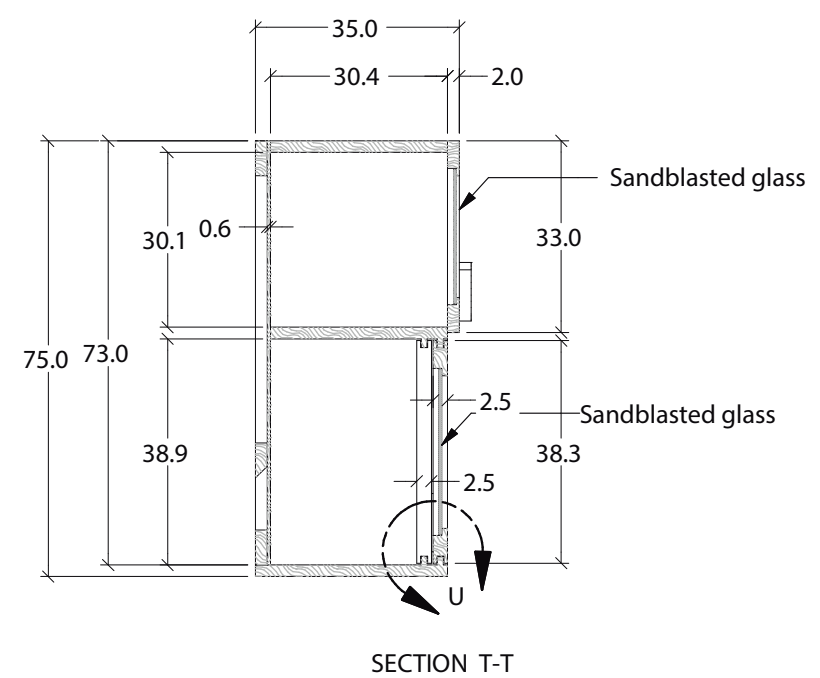
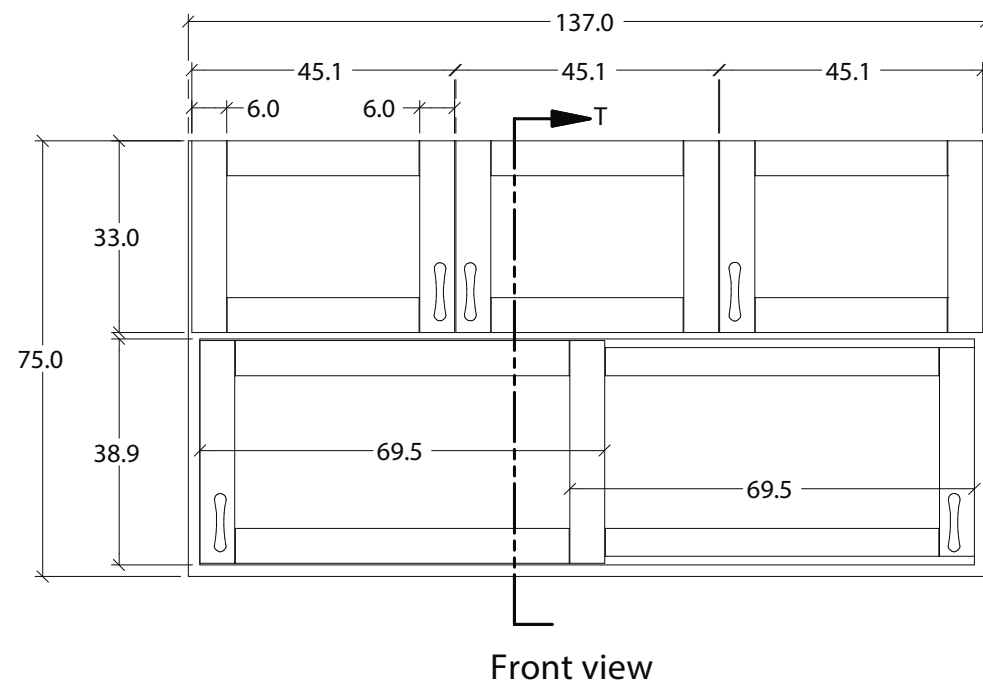
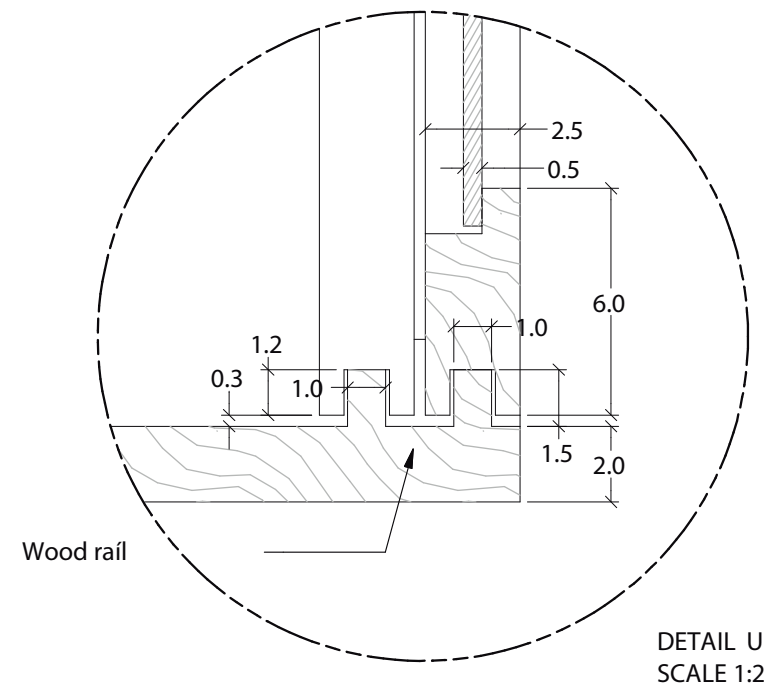
Kitchen Elevations

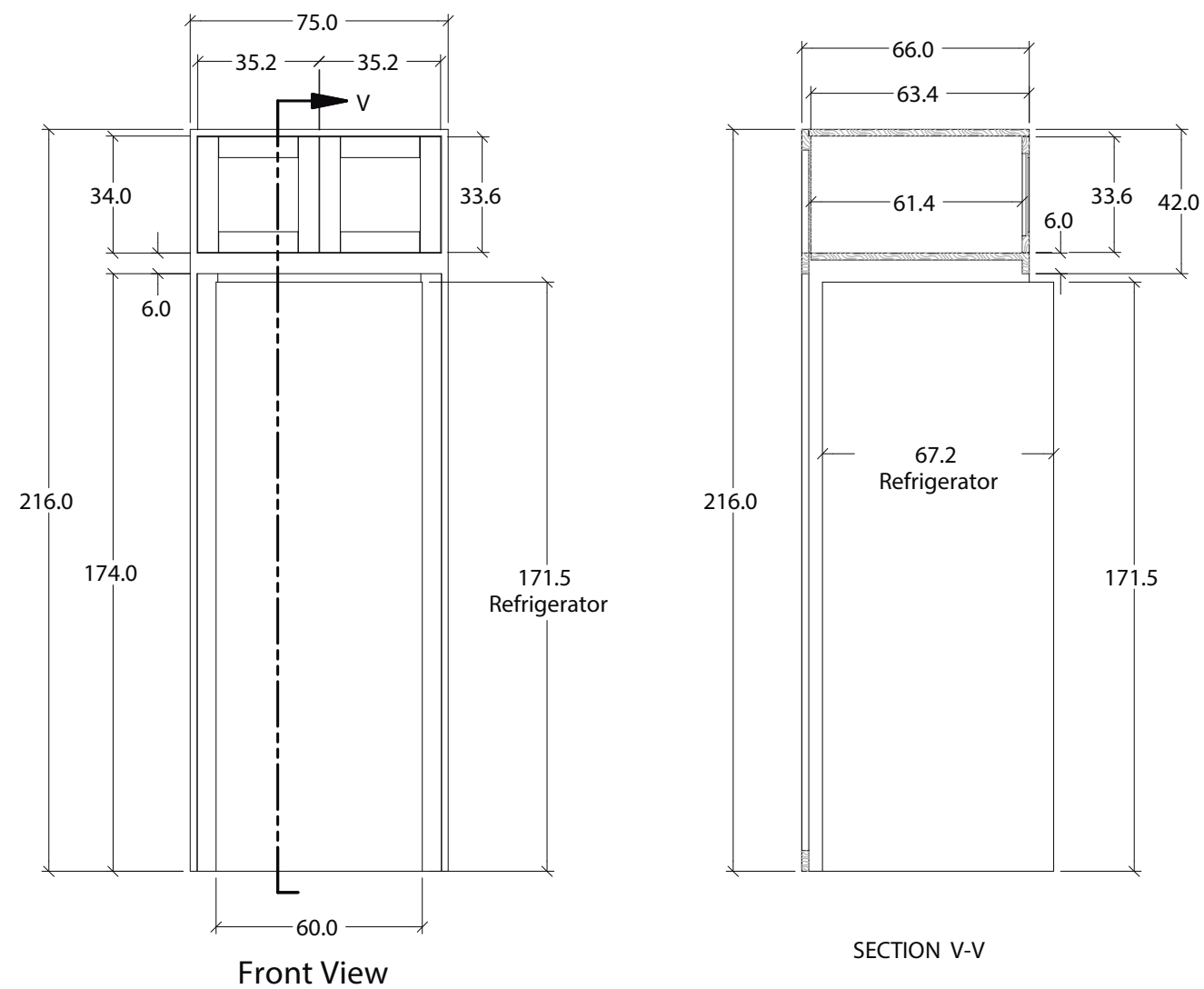
Content:  
Kitchen Elevations

Scale: 1:13

Date: 11/3/2014

Code: IN-417





Deliverable #7 Project Drawings	
Project: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
Made by: Department of design	
Sheet title	
Kitchen Elevations	
Content:	
Kitchen Elevations	
Scale: 1:20	Date: 11/3/2014
Code:	IN-418

Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of design

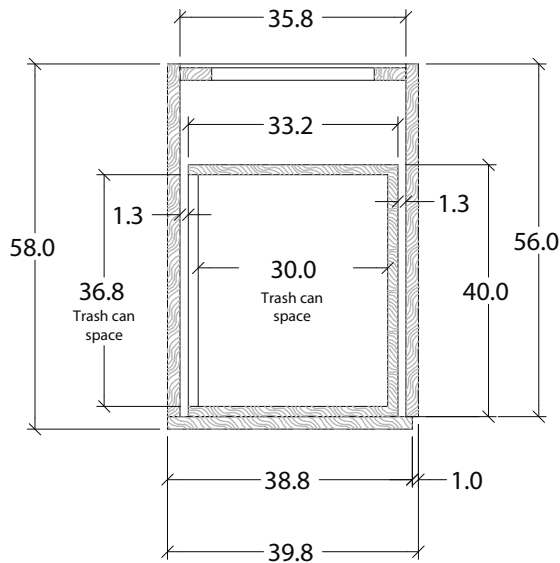
Sheet title

Kitchen Elevations

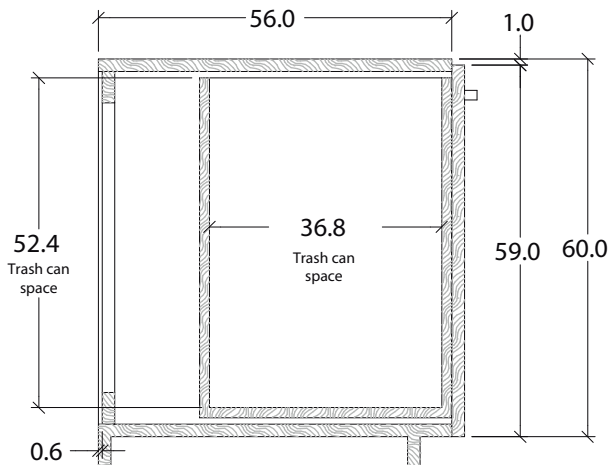
Content:  
Kitchen Elevations

Scale: 1:12      Date: 11/3/2014

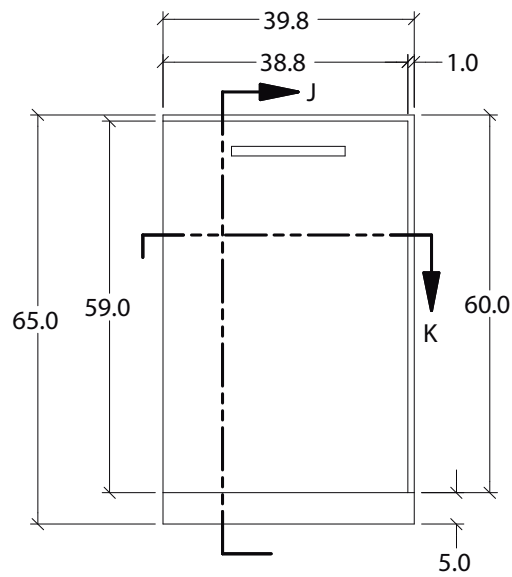
Code: IN-419



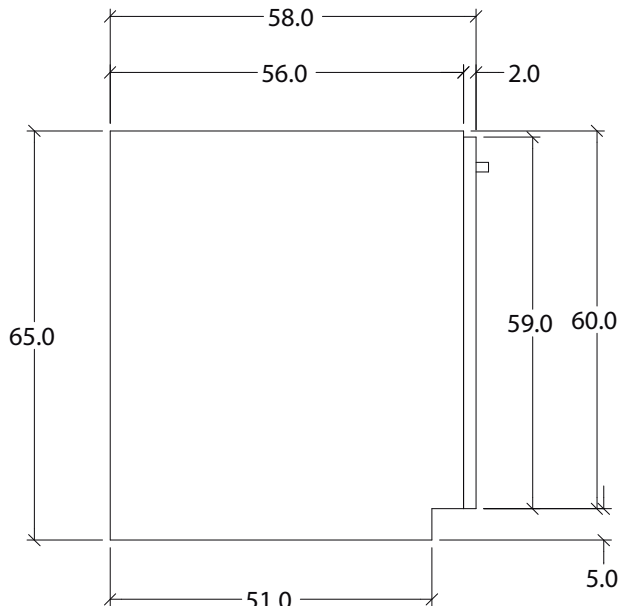
SECTION K-K



SECTION J-J



Front view



Right view



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

Bathroom elevations

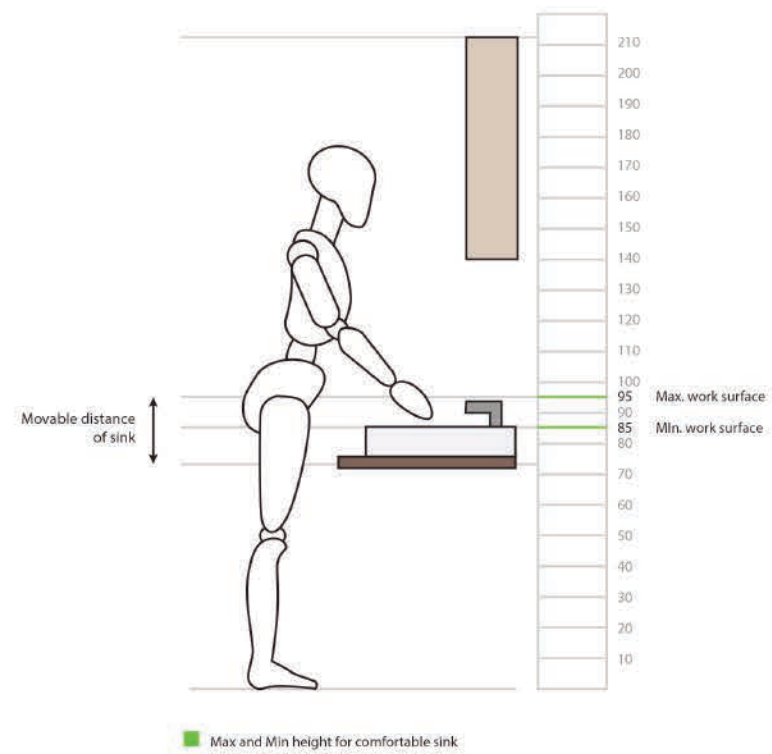
Content: -Details

Scale: 1:10

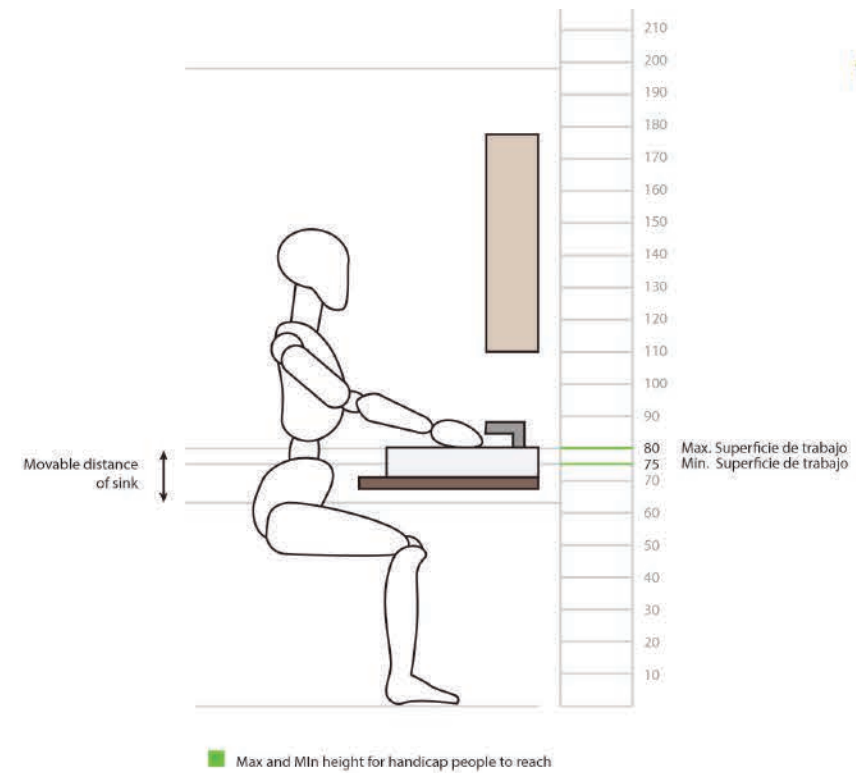
Date: 11/3/2014

Code: IN-511

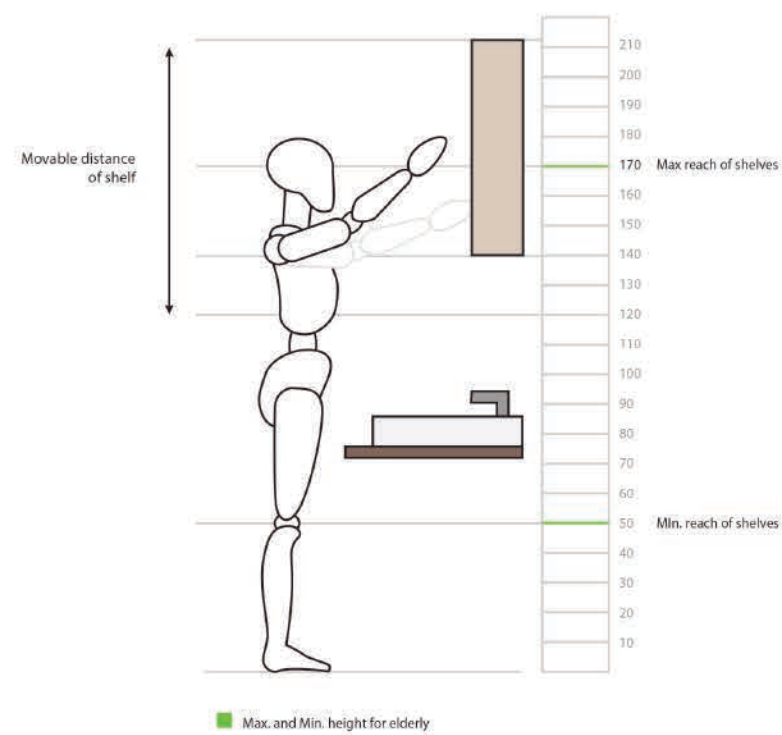
Work area  
for elderly



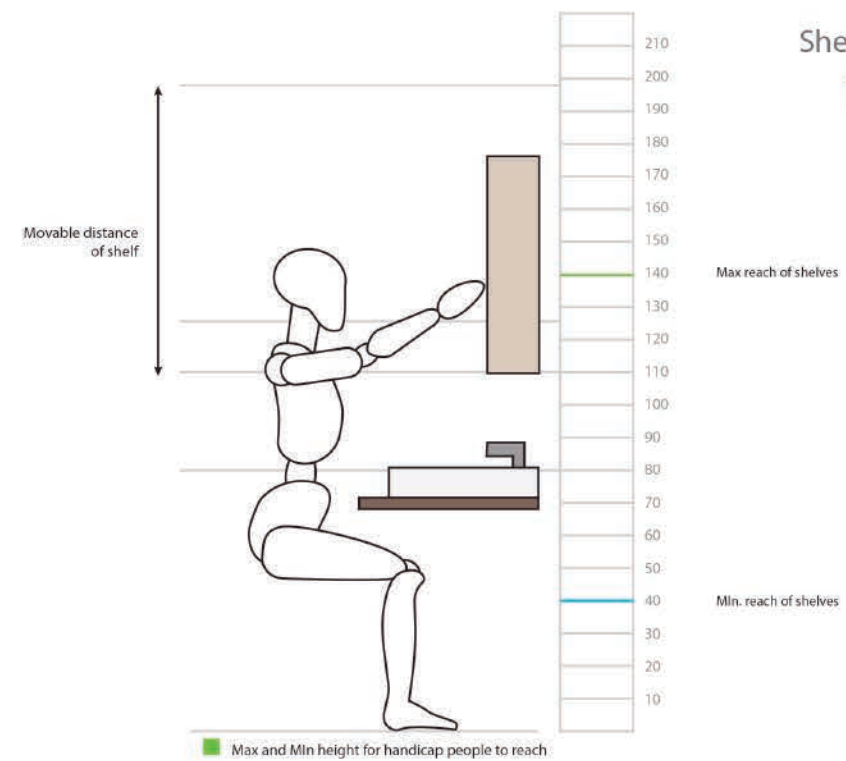
Work area  
for handicap



Shelves and drawers  
for elderly



Shelf and drawer  
for handicap



Deliverable #7  
Project Drawings

Proyect: Trópika  
Team: Tec Team  
Country: Costa Rica  
Professional seal:

Made by: Department of design

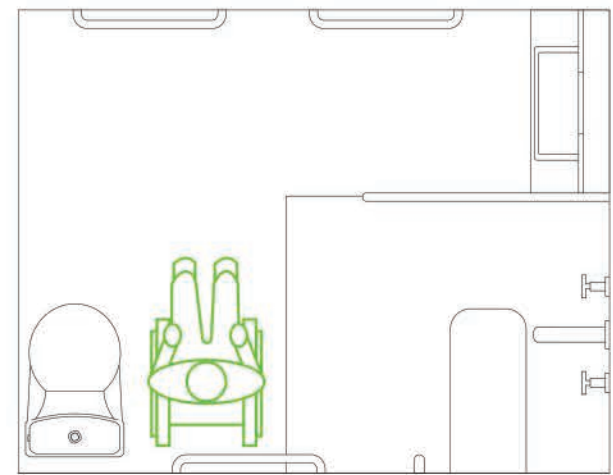
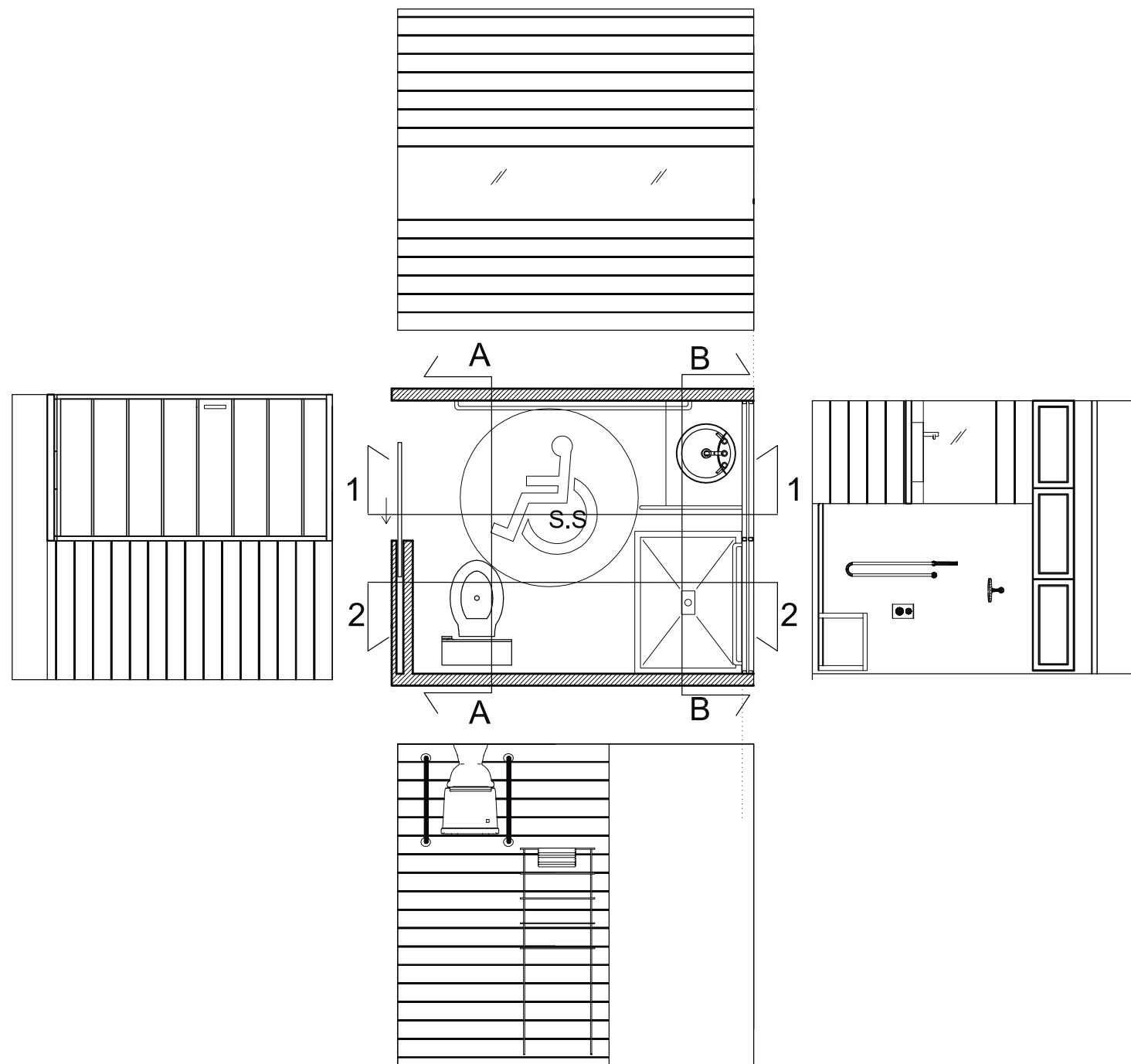
Sheet title

Bathroom plan

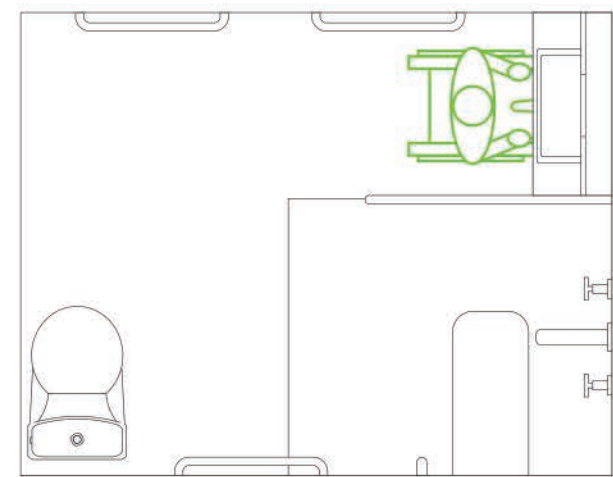
Content: -Bathroom plan and elevations

Scale: 1:10      Date: 11/3/2014

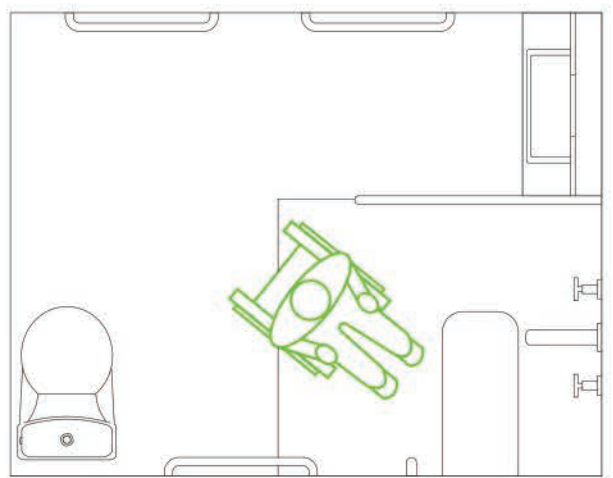
Code: IN-501



Use of the toilet for wheelchair



Acces to the sink in wheelchair



Acces to the shower in wheelchair



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of design

Sheet title

Interior renderings

Content: -Bathroom

Scale: Date: 11/3/2014

Code: IN-601





Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

Interior renderings

Content: -Flexible space.

Scale: Date: 11/3/2014

Code: IN-602





Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

Interior renderings

Content: -Flexible space.

Scale: Date: 11/3/2014

Code: IN-603



Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
design

Sheet title

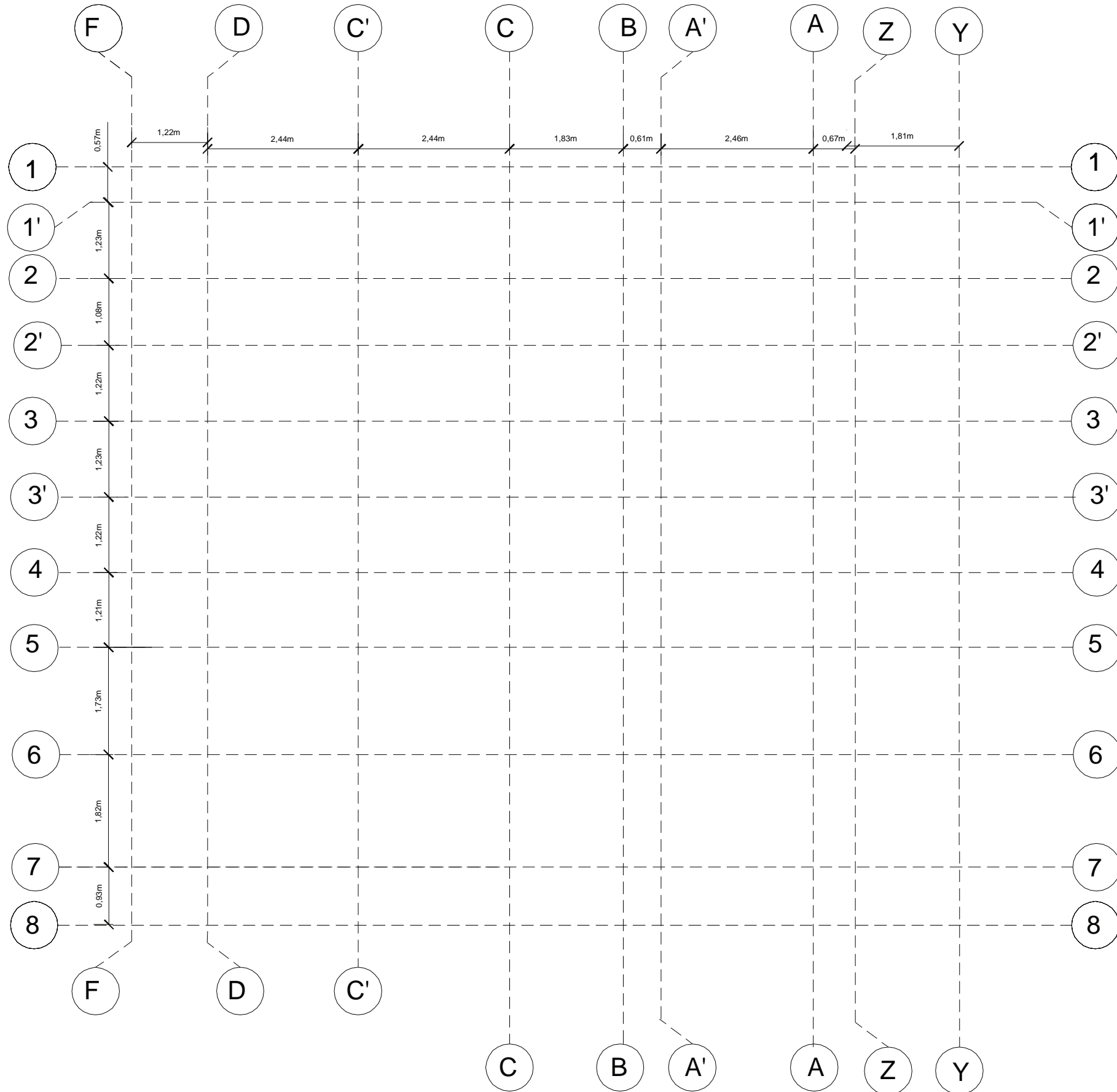
Interior renderings

Content: -Kitchen

Scale: Date: 11/3/2014

Code: IN-604





Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



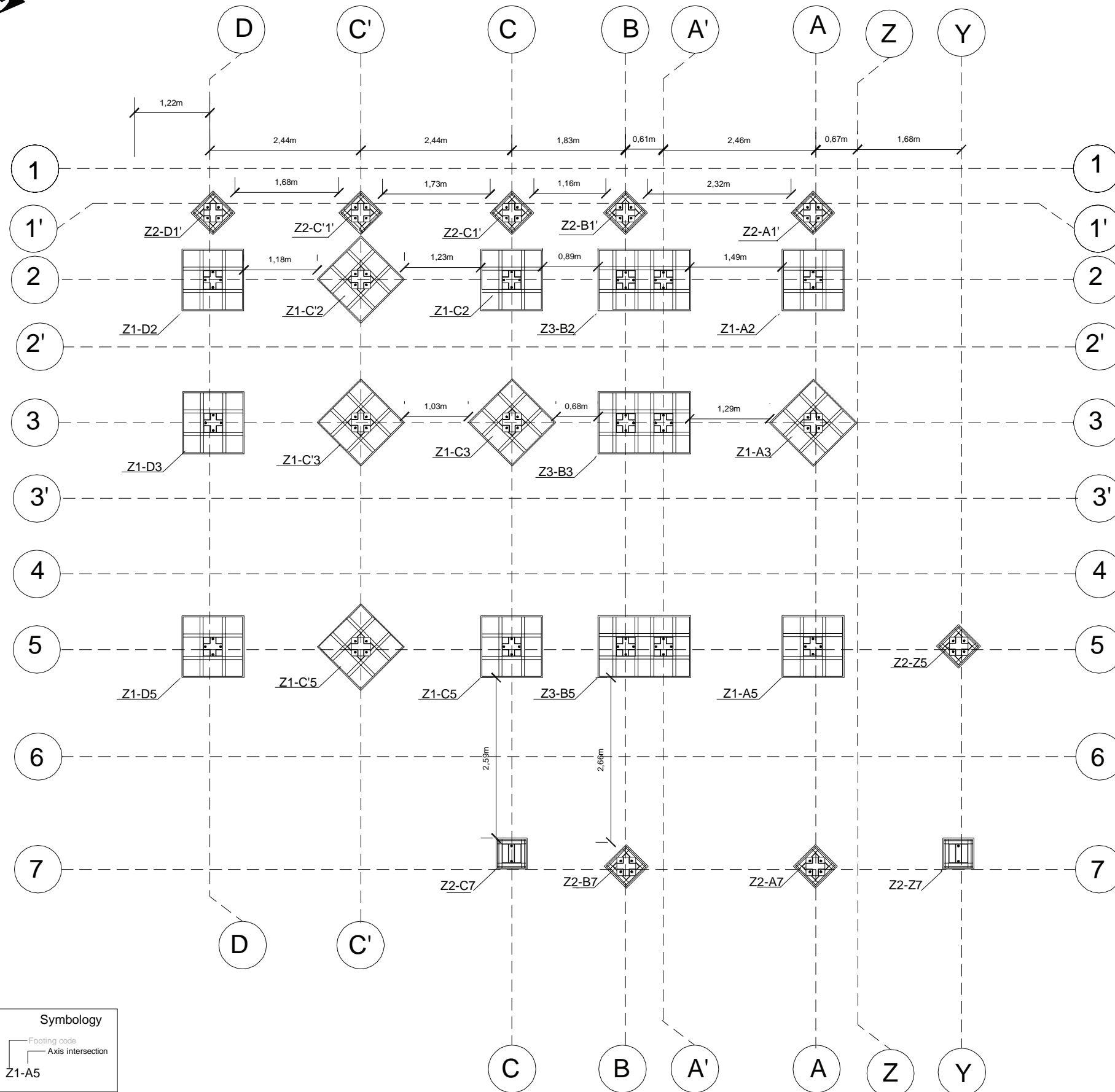
Made by: Department of construction

Sheet title  
Foundation Plan

Content:  
Dimensions plan

Scale: 1:75 Date:11/03/2014

Code: ST-001



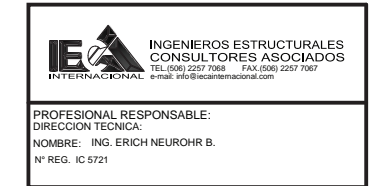
Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
construction

Sheet title

Foundation Plan

Content:

Footing distribution

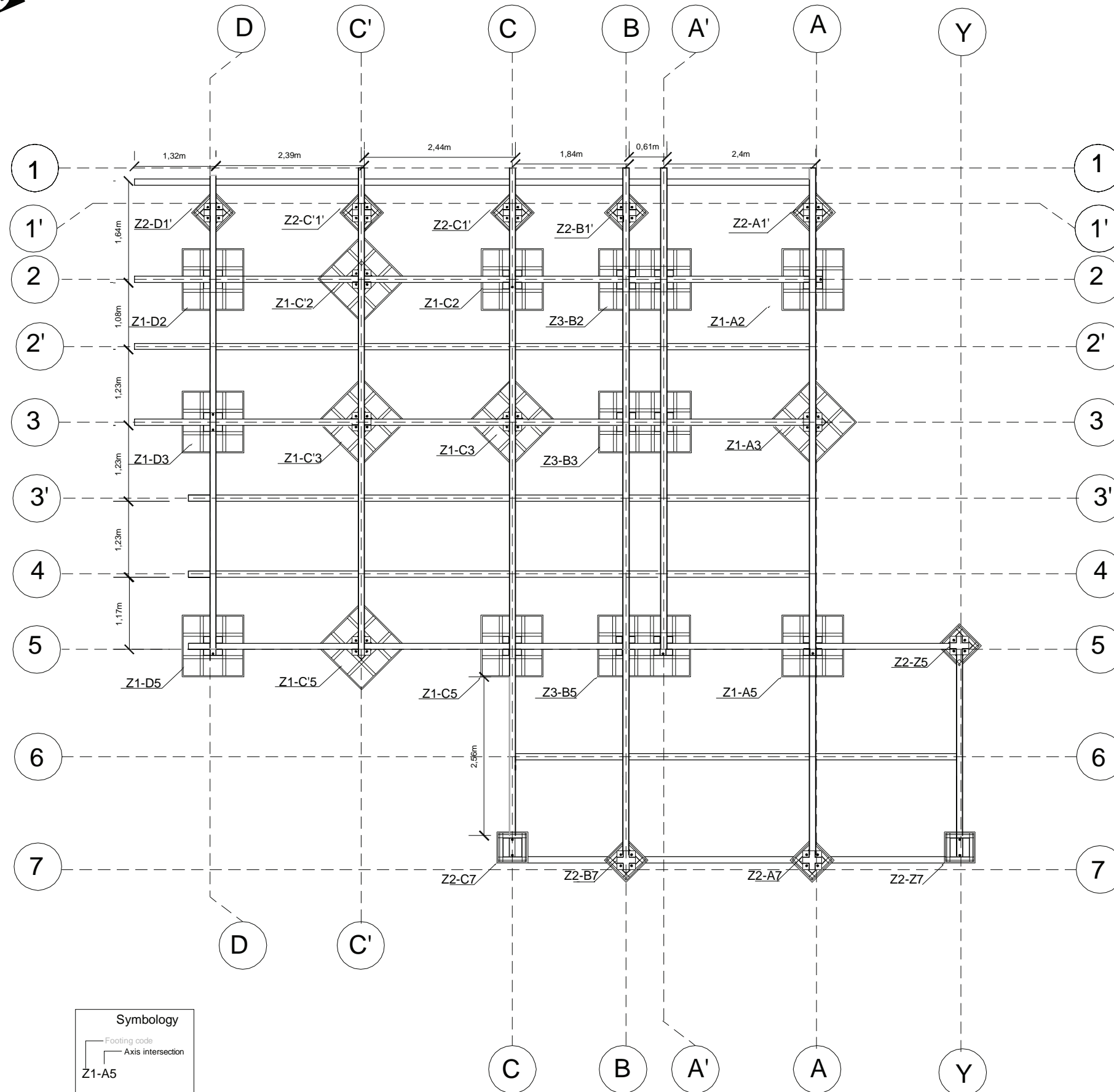
Scale: 1:75

Date: 11/03/2014

Code:

ST-002





Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
construction

Sheet title

Foundation Plan

Content:

Footing distribution  
and floor rafters

Scale: 1:75

Date: 11/03/2014

Code: ST-003

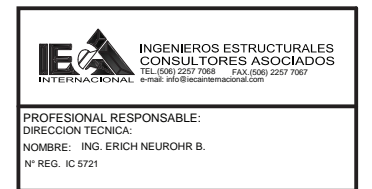
**Deliverable #7**  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



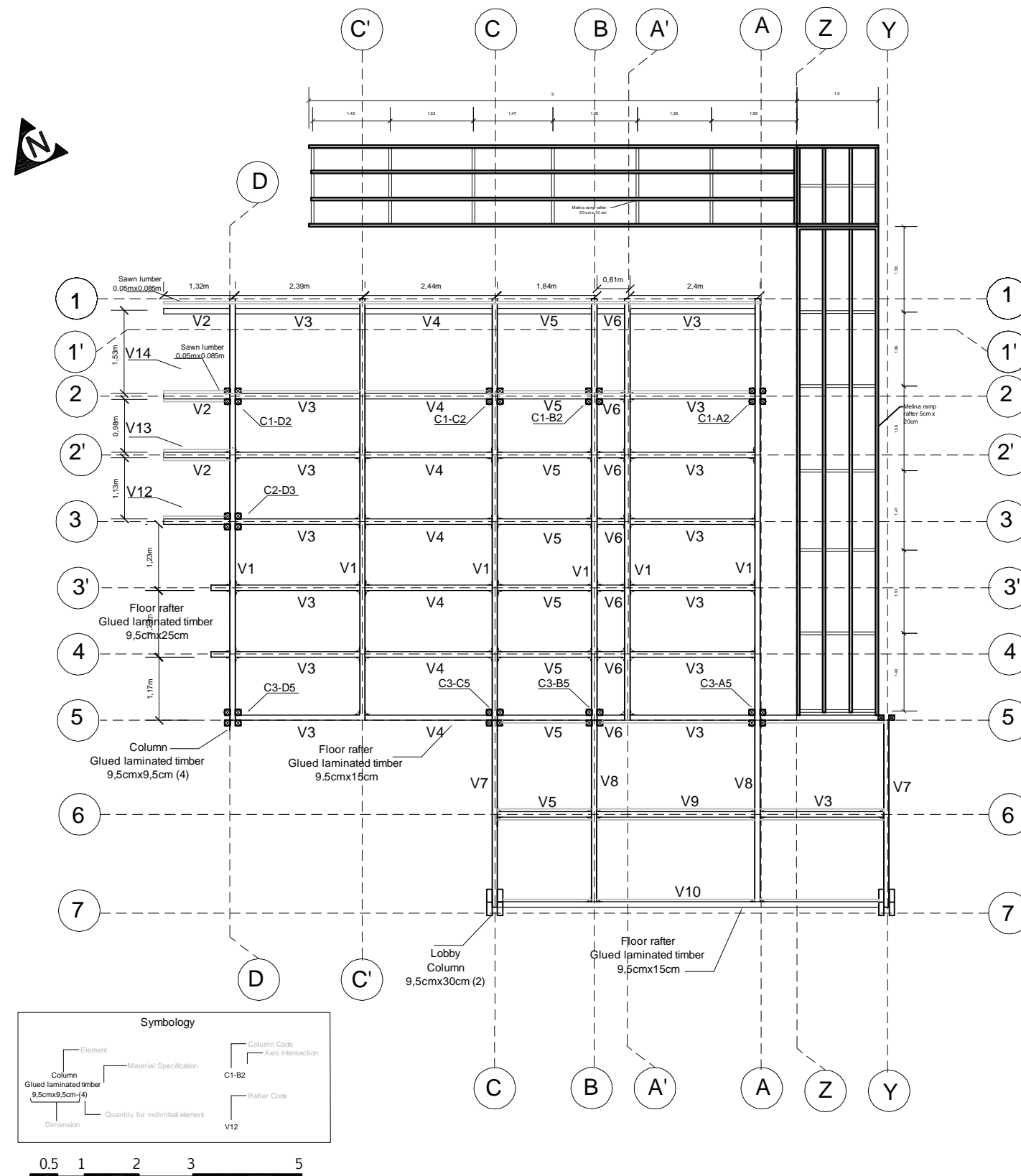
Made by: Department of  
constructionn

Sheet title  
**Structural Floor Plan**

Content:  
**Principal and transversal  
floor rafters**

Scale: 1:100 Date:11/03/2014

Code: **ST-011**



# Deliverable #6 Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
constructionn

Sheet title

Foundation Plan

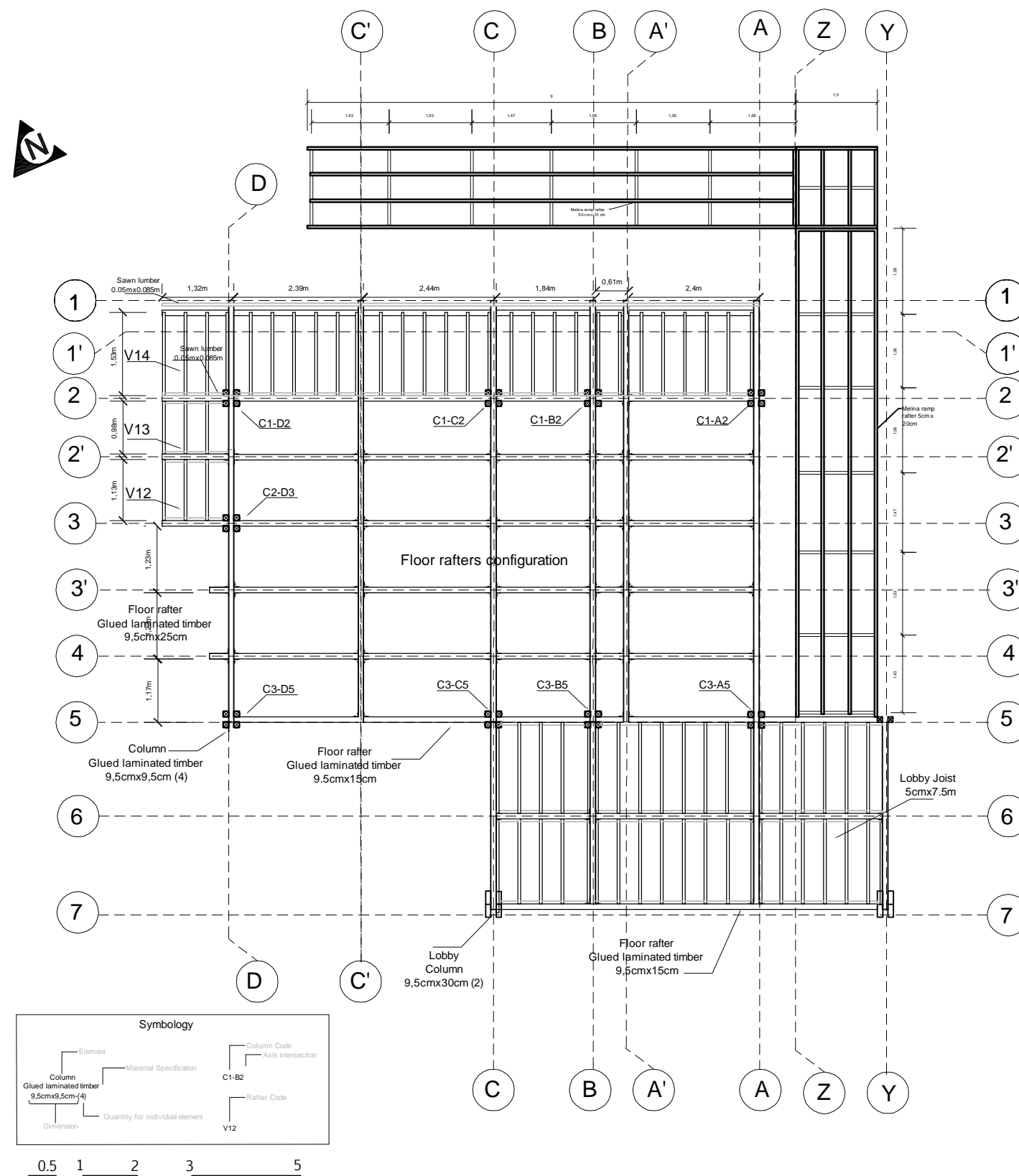
Content:

Principal and transversal  
rafters and joist for teak  
clapboard

Scale: 1:100

Date: 6/02/2014

Code: ST-012



# Deliverable #7 Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of construction

Sheet title

Structural Floor Plan

Content:

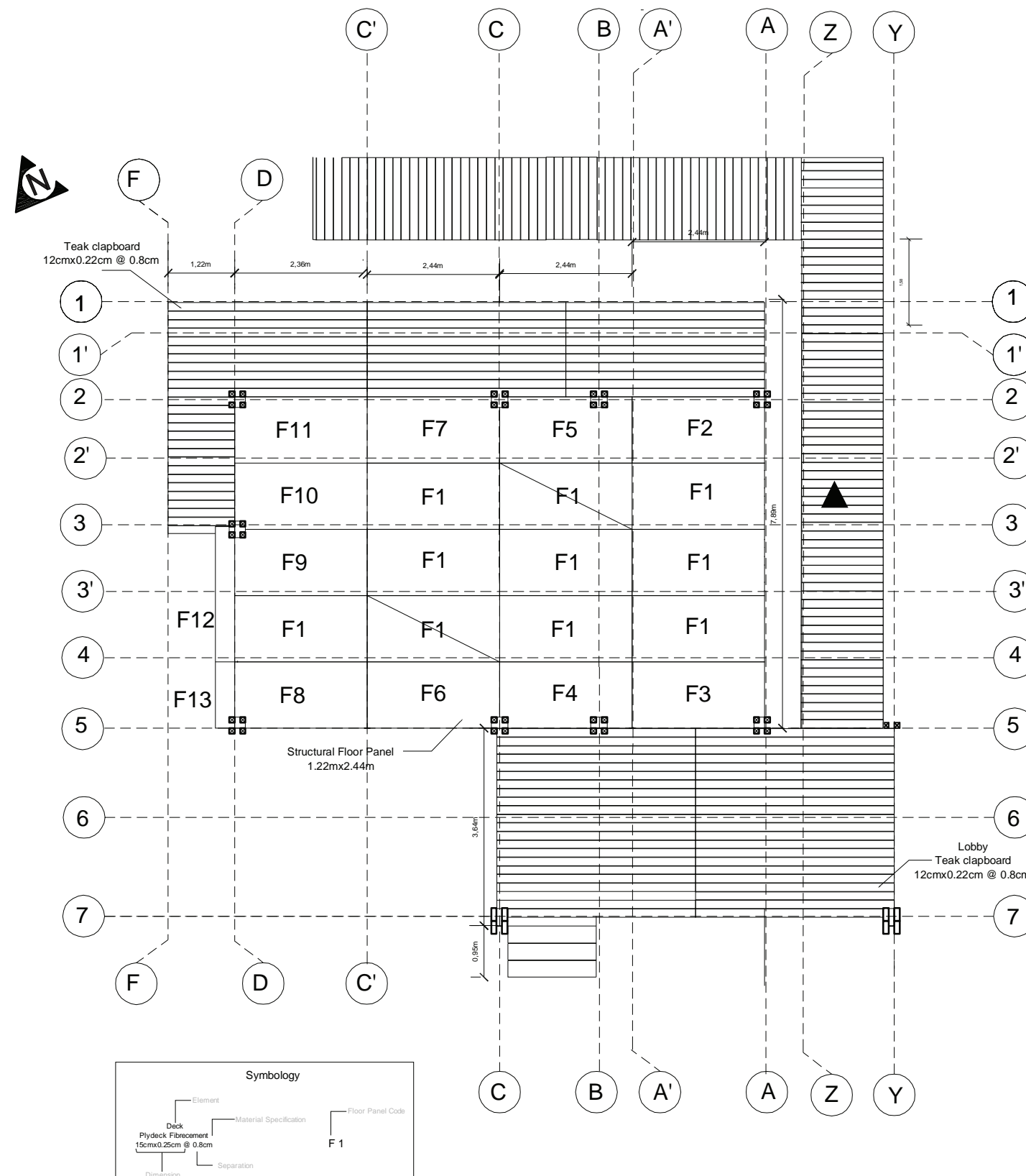
Structural Floor panel distribution

Scale: 1:100

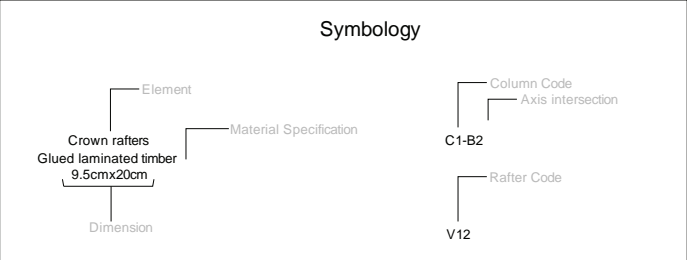
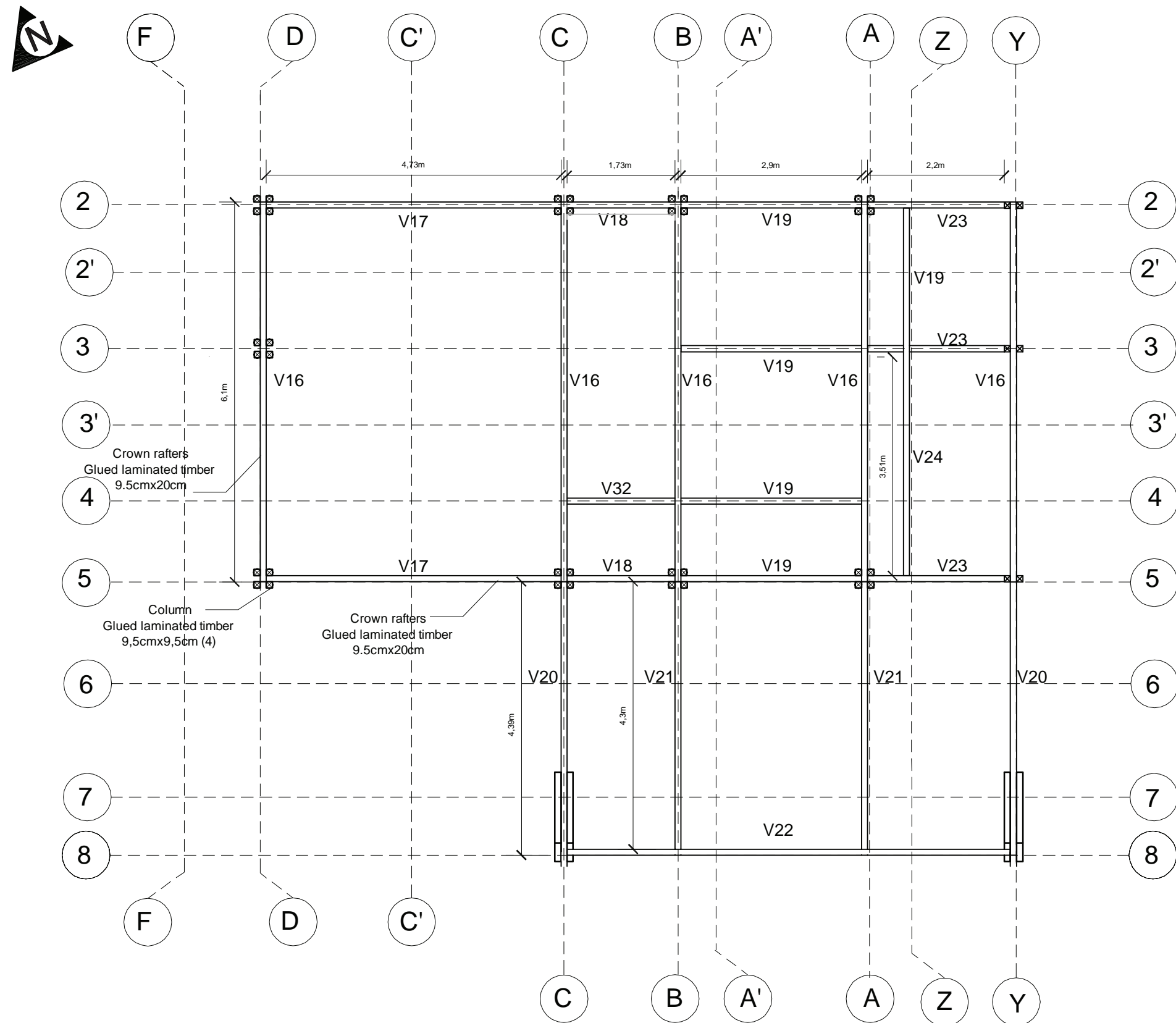
Date:11/03/2014

Code:

ST-013







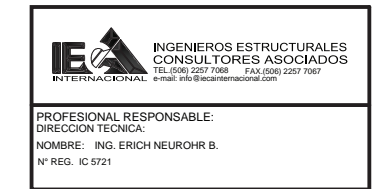
Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
construction

Sheet title

Structural Roof Plan

Content:

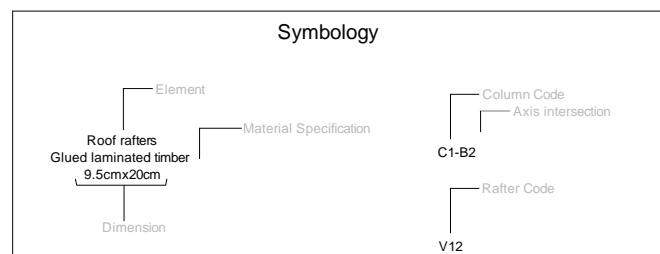
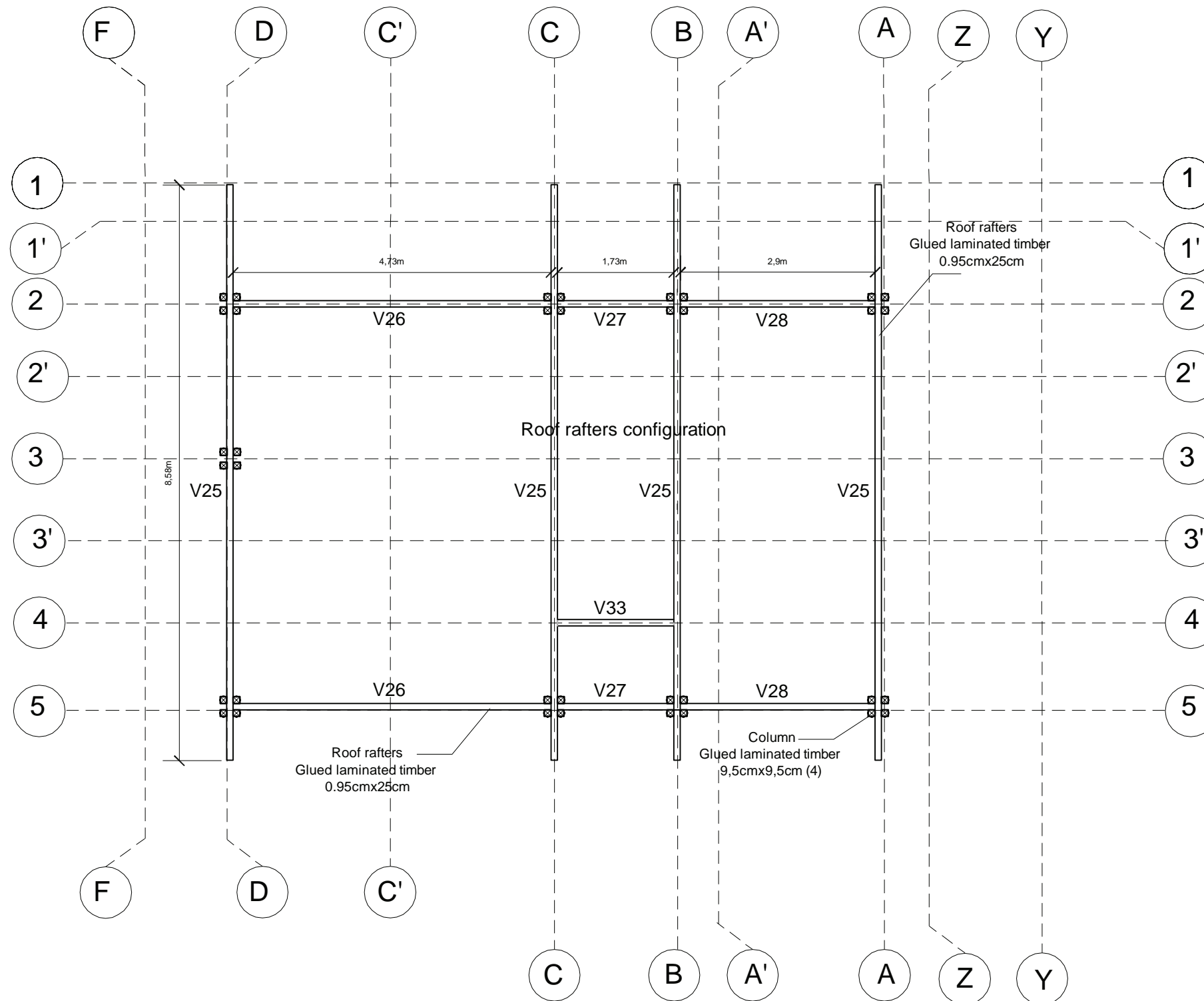
Crown rafters  
distribution

Scale: 1:75

Date:11/03/2014

Code:

ST-021



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
construction

Sheet title

Structural roof plan

Content:

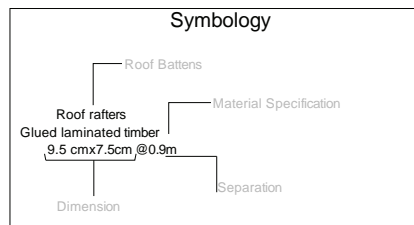
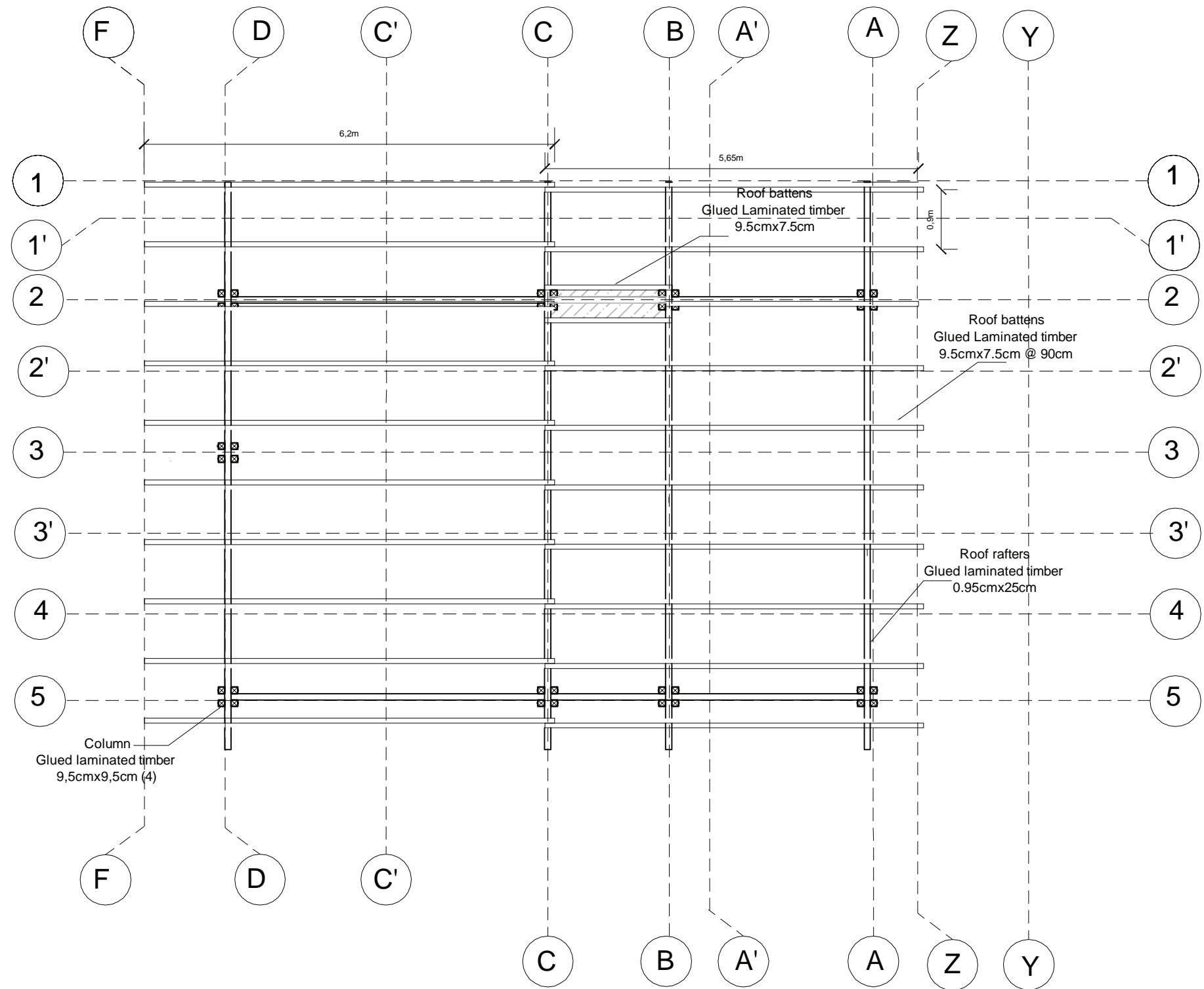
Roof rafters  
distribution

Scale: 1:75

Date: 11/03/2014

Code:

ST-022



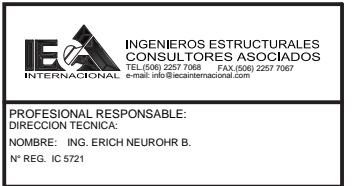
Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
constructionn

Sheet title

Structural Roof Plan

Content:

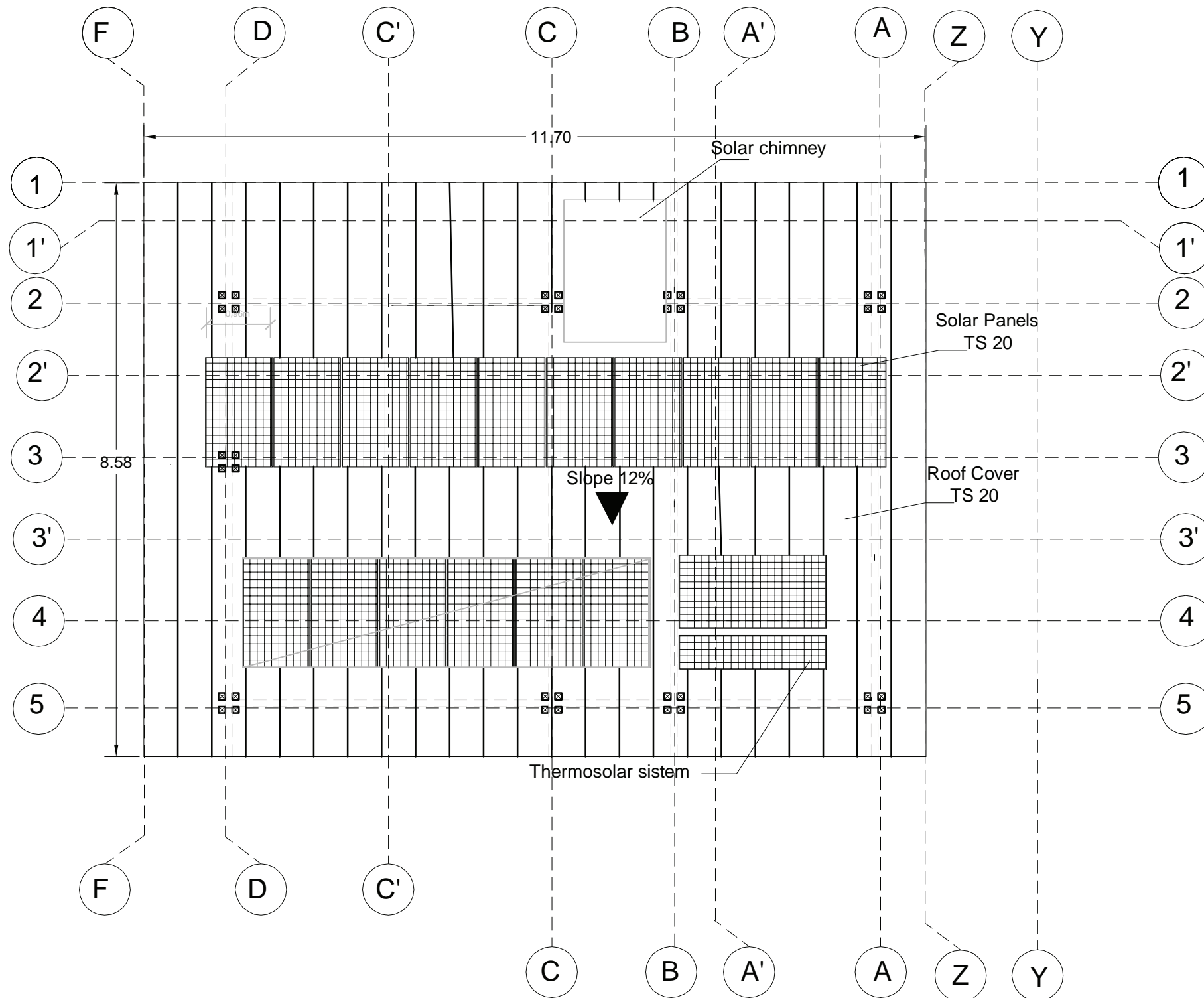
Roof battens distribution

Scale: 1:75

Date:11/03/2014

Code:

ST-023



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
construction

Sheet title

Structural Roof Plan

Content:

Roof Cover  
Total Span

Scale: 1:75

Date: 11/03/2014

Code: ST-024



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



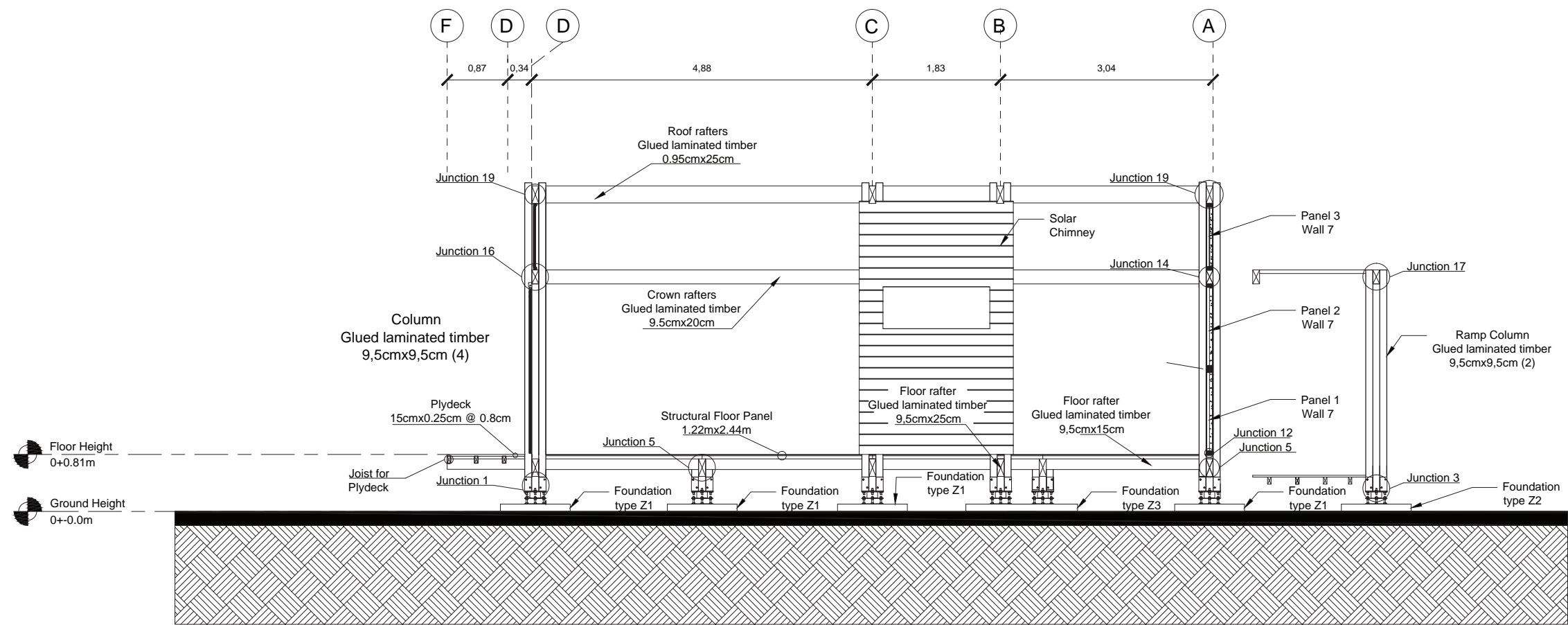
Made by: Department of construction.

Sheet title  
Structural sections.

Content: Section 1-1

Scale: 1:75      Date:11/03/2014

Code: ST-101



SECTION 1-1

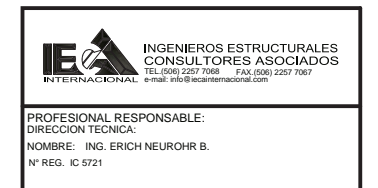
# Deliverable #7 Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



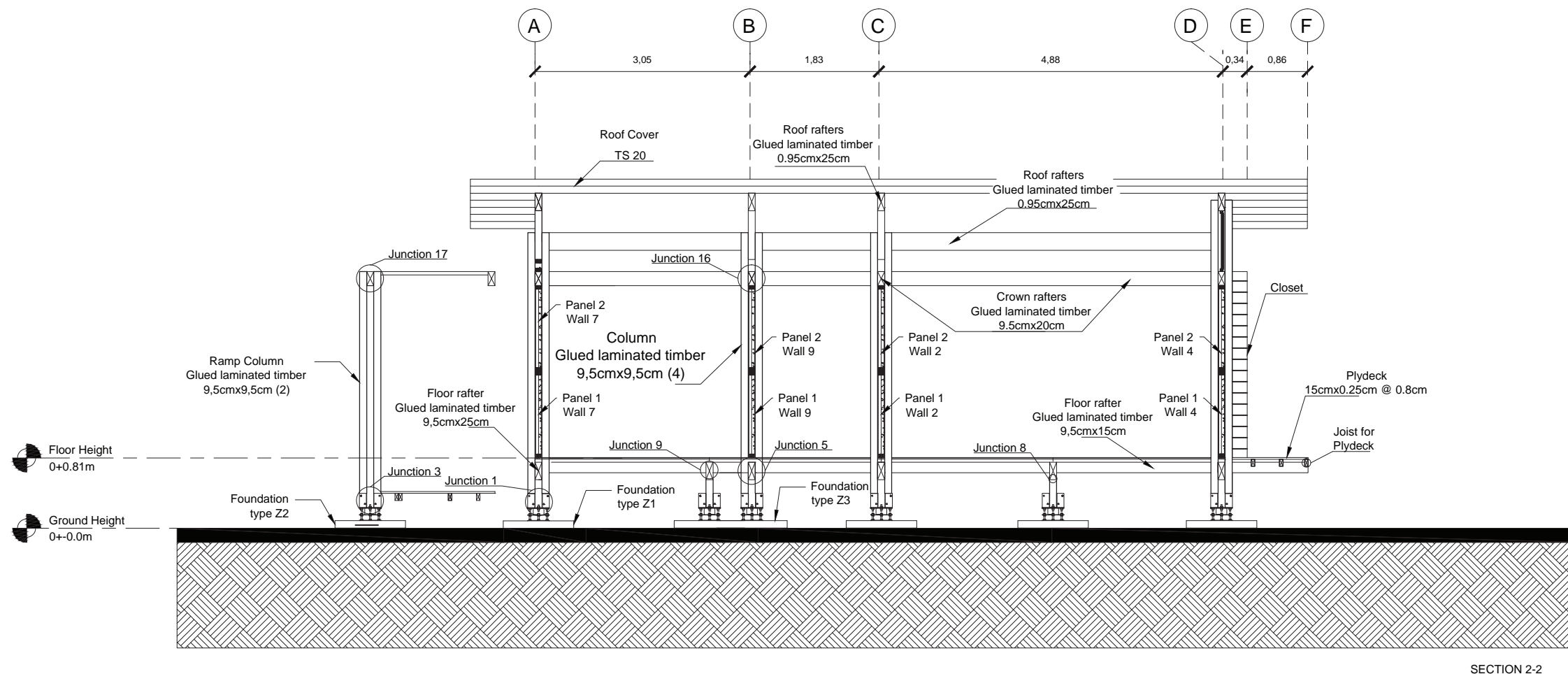
Made by: Department of construction.

Sheet title  
Structural sections.

Content: Section 2-2

Scale: 1:75 Date:11/03/2014

Code: ST-102



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



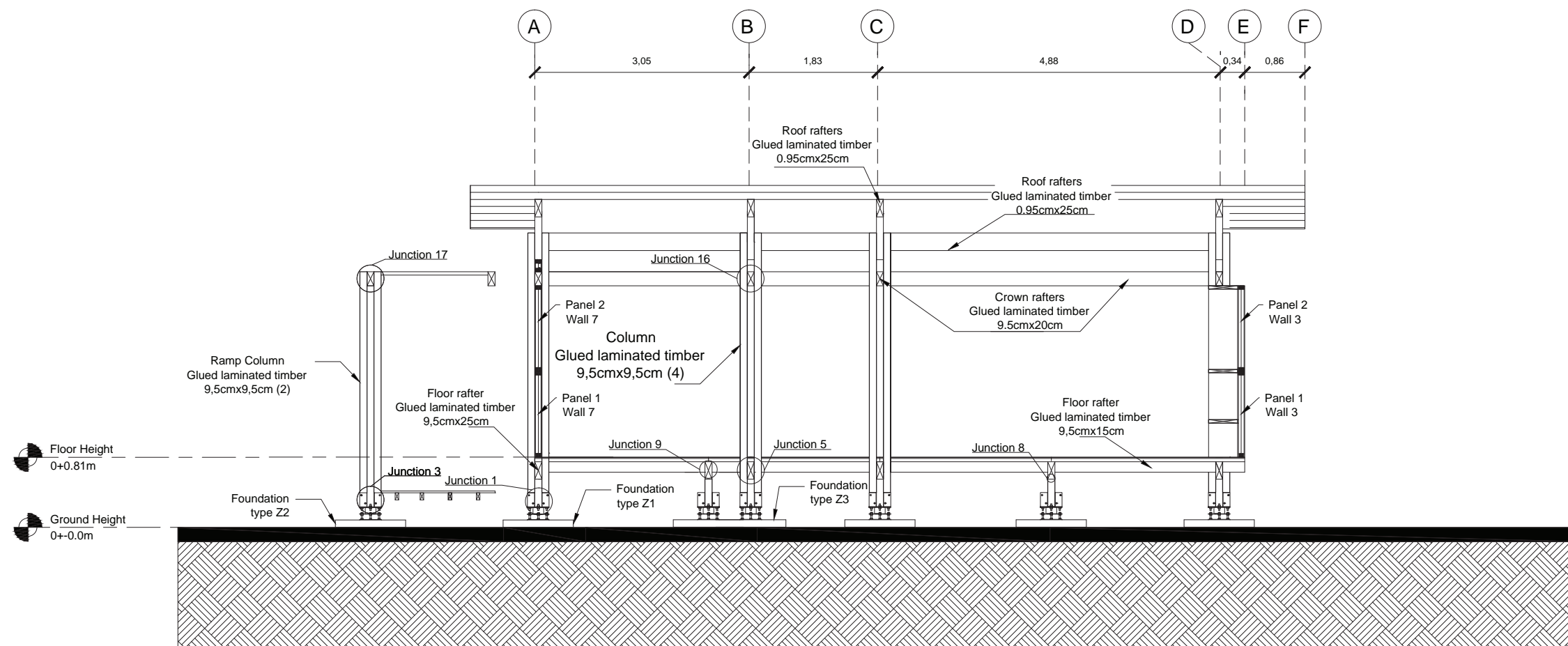
Made by: Department of construction.

Sheet title  
Structural sections.

Content: Section 3-3

Scale: 1:75      Date:11/03/2014

Code: ST-103



SECTION 3-3

## Deliverable #7 Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
construction.

Sheet title

Structural Sections.

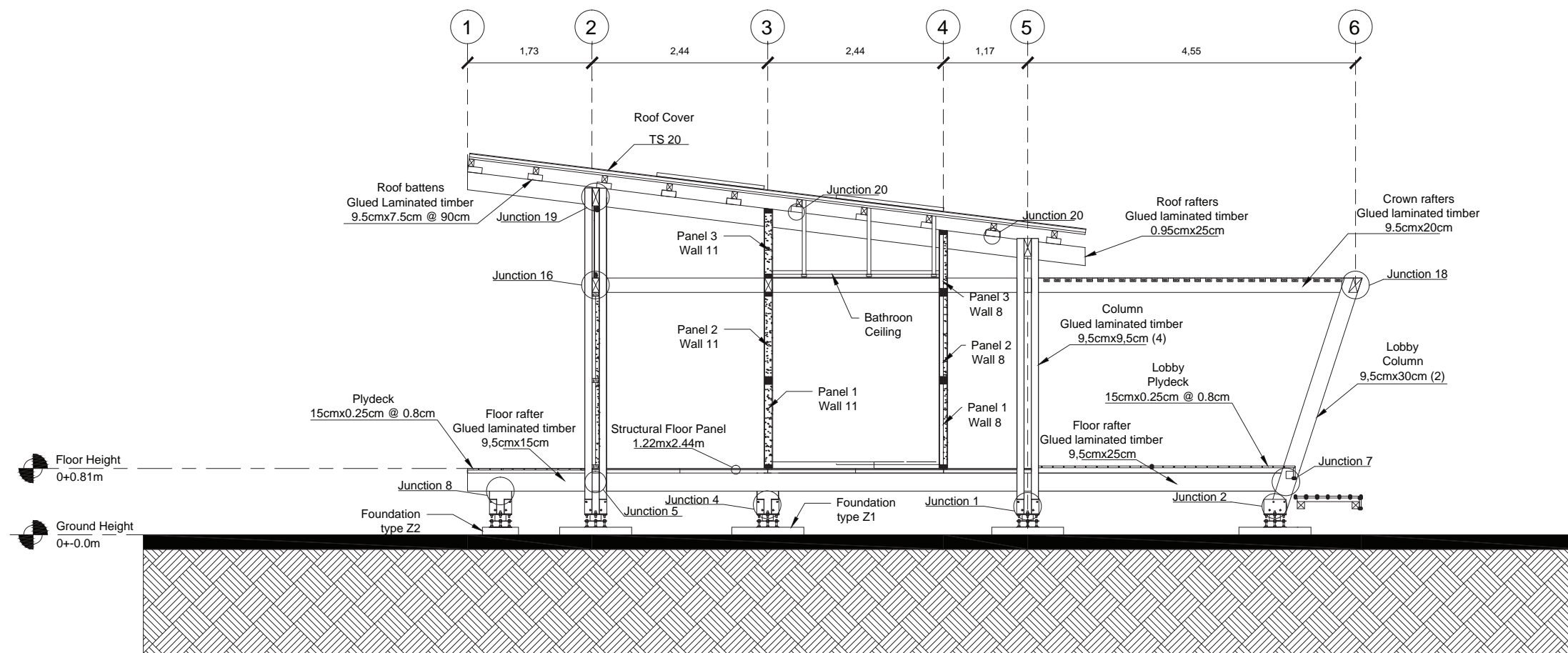
Content: Section C-C

Scale: 1:75

Date: 11/03/2014

Code:

ST-111



SECTION C-C



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



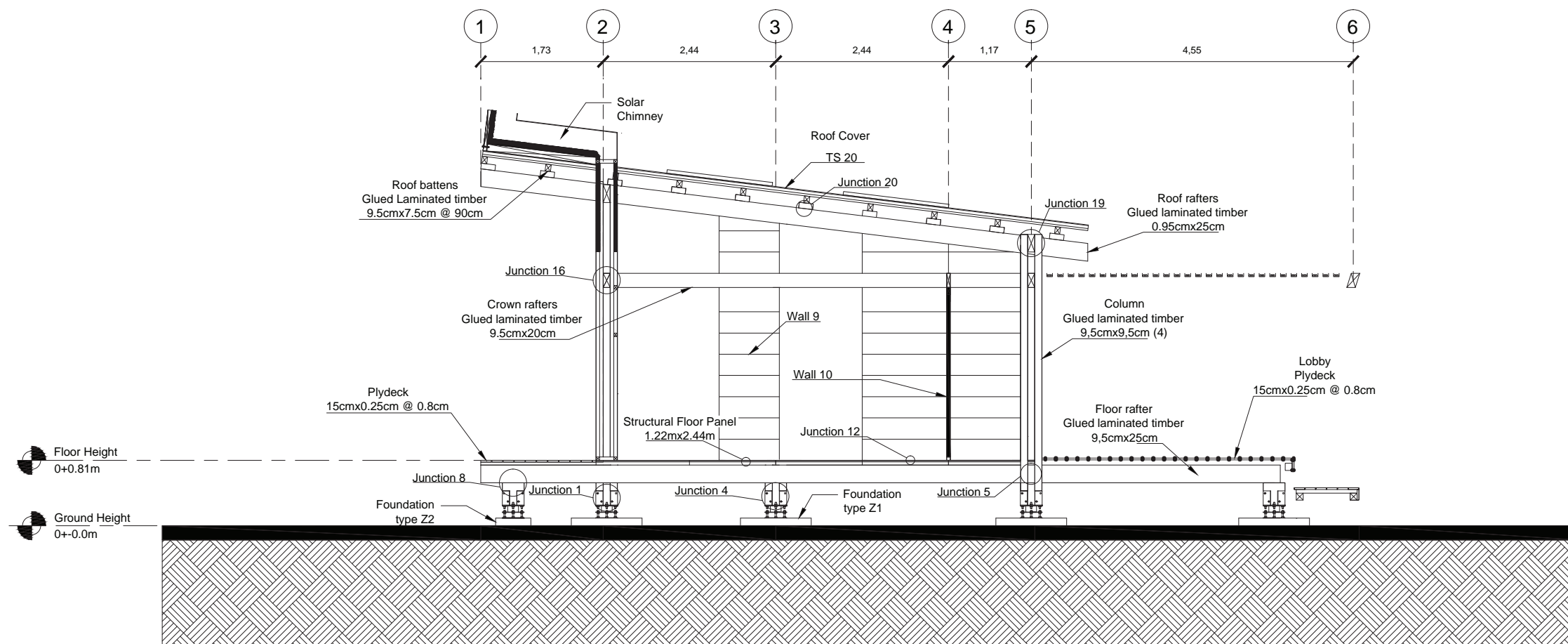
Made by: Department of construction.

Sheet title  
Structural sections

Content: Section B-B

Scale: 1:75      Date:11/03/2014

Code: ST-112



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



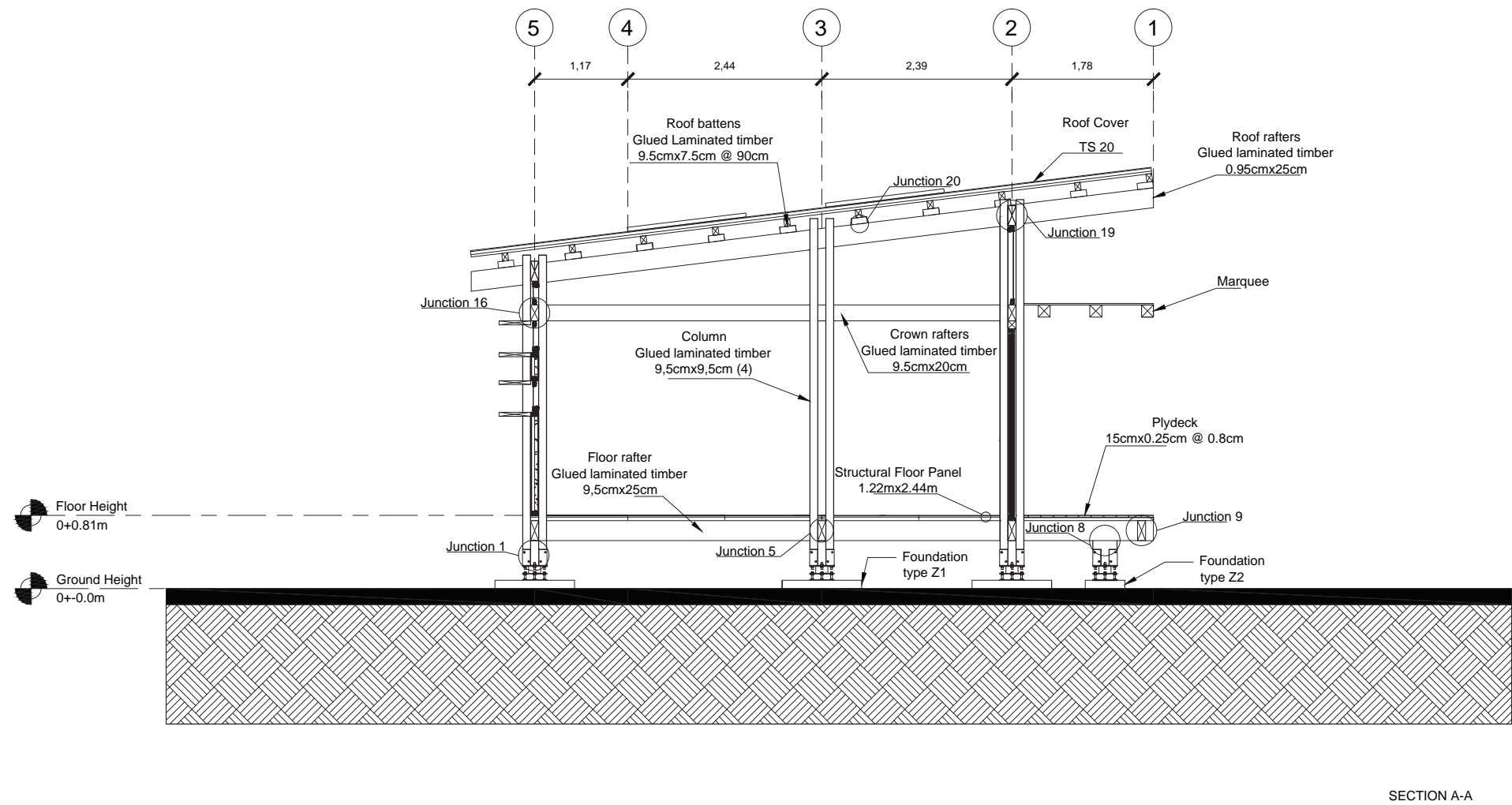
Made by: Department of construction.

Sheet title  
Structural sections.

Content: Section A-A

Scale: 1:75      Date:11/03/2014

Code: ST-113



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
construction

Sheet title

Structural Details

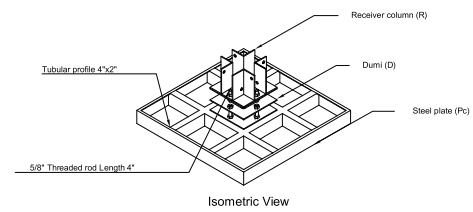
Content: Footing Detail

Scale: 1:50

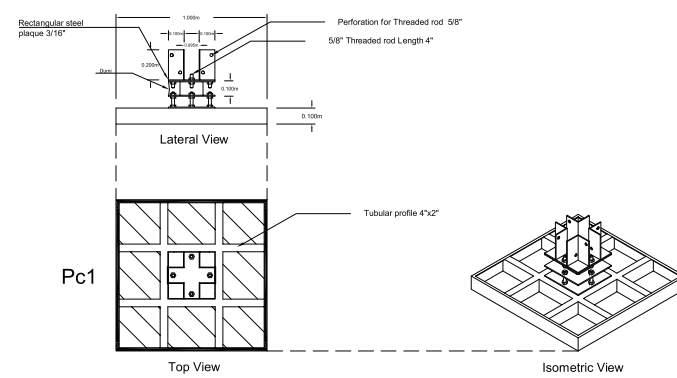
Date: 11/03/2014

Code: **ST-301**

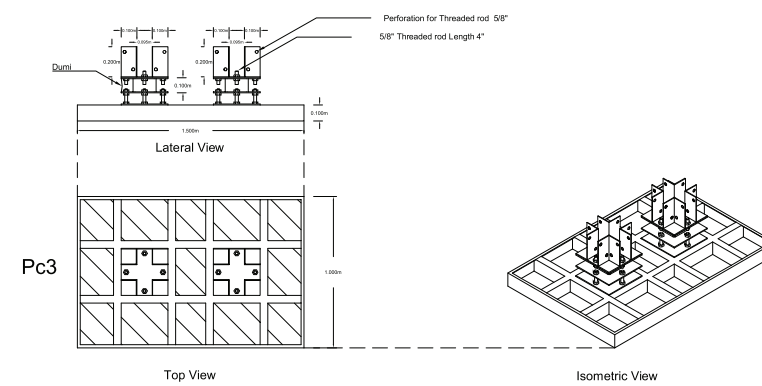
## Footing general parts



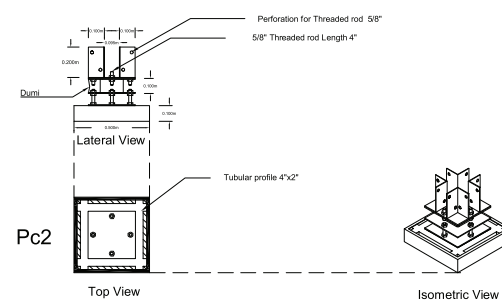
## Footing Z1



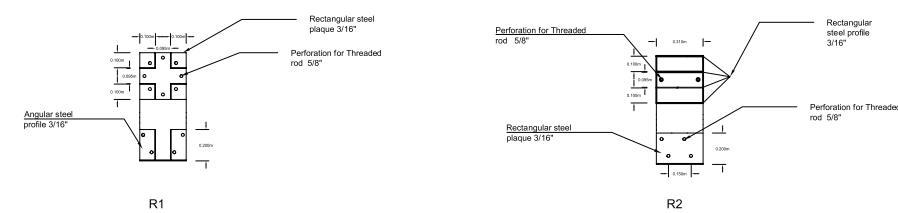
## Footing Z3



## Footing Z2

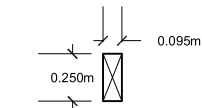


## Receiver column detail

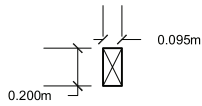


Rafter Code	Dimension		
	a (m)	b (m)	l(m)
V1	0.095	0.25	7.83
V2	0.095	0.15	1.22
V3	0.095	0.15	2.29
V4	0.095	0.15	2.34
V5	0.095	0.15	1.73
V6	0.095	0.15	0.51
V7	0.095	0.25	3.64
V8	0.095	0.25	3.54
V9	0.095	0.15	2.9
V10	0.095	0.15	6.92
V11	0.095	0.15	1.62
V12	0.05	0.1	1.12
V13	0.05	0.1	1.07
V14	0.05	0.1	1.63
V15	0.05	0.1	1.72
V16	0.095	0.2	6.1
V17	0.095	0.2	4.73
V18	0.095	0.2	1.73
V19	0.095	0.2	2.9
V20	0.095	0.2	4.57
V21	0.095	0.2	4.47
V22	0.095	0.2	7.12
V23	0.095	0.2	2.19
V24	0.095	0.2	3.51
V25	0.095	0.25	8.65
V26	0.095	0.25	4.73
V27	0.095	0.25	1.73
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V29	0.095	0.15	0.35
V30	0.095	0.15	2.2

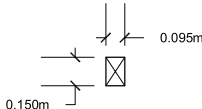
Rafters Section



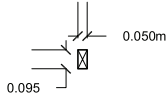
Principal floor and roof rafters



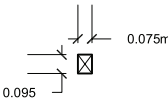
Crown rafter



Transversal floor rafters



Transversal floor rafters

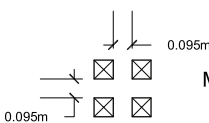


Roof Battens

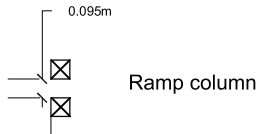
Column Code	Dimensiones		
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C1	0.095	0.095	4.600
C2	0.095	0.095	4.360
C3	0.095	0.095	3.900
C4	0.095	0.095	3.400
C5	0.095	0.300	3.680

Roof Battens	Dimension		
	a (m)	b (m)	l (m)
Cl1	0.075	0.095	6.000
Cl2	0.075	0.095	6.200
Cl3	0.050	0.075	2.440
Cl4	0.050	0.075	3.050

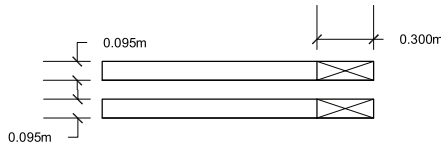
Column Section



Module column

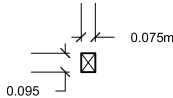


Ramp column

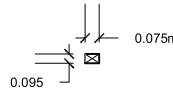


Lobby Column

Roof Battens Section




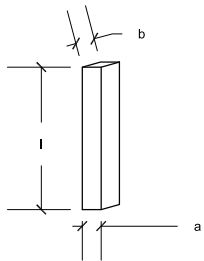
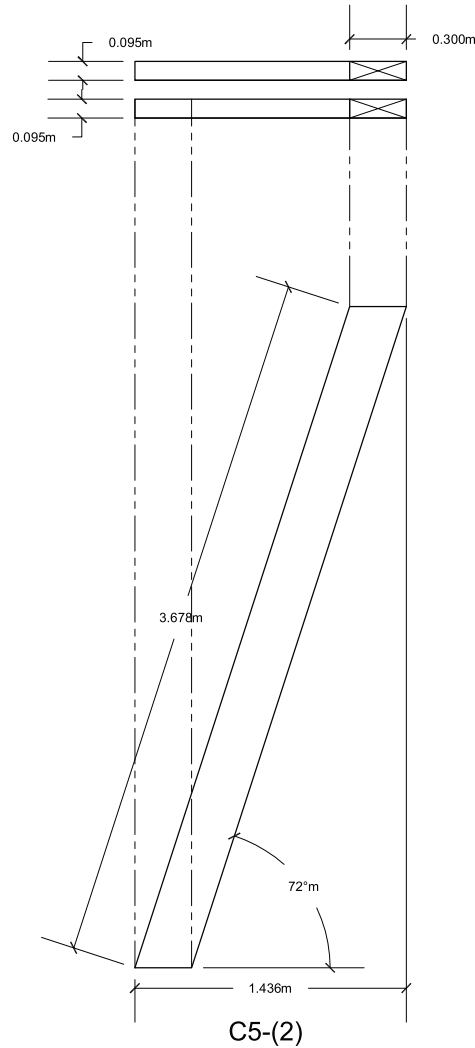
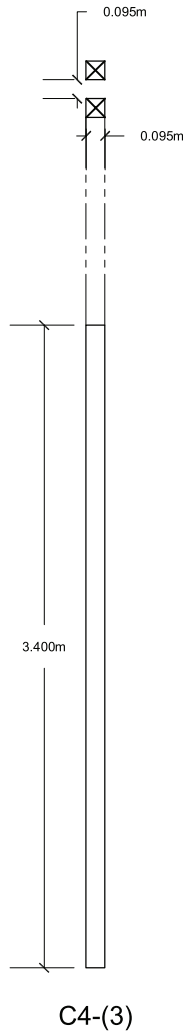
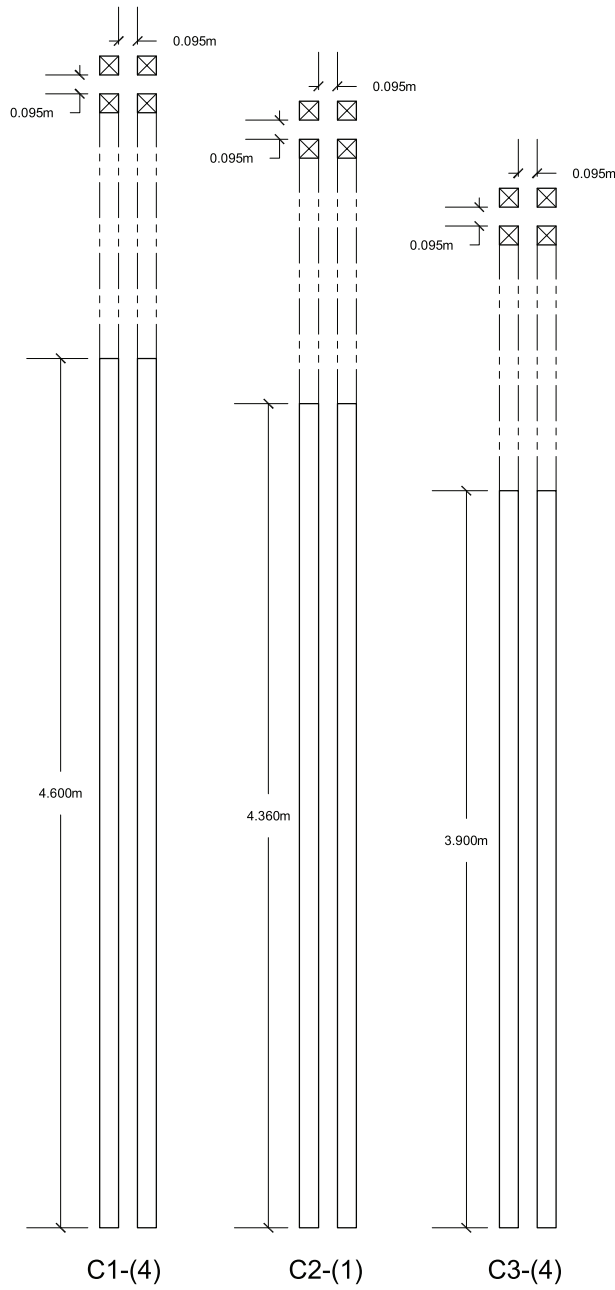
Roof Battens



Roof Battens



Deliverable #7 Project Drawings	
Proyect:	Trópika
Team:	Tec Team
Country:	Costa Rica
Professional seal:	
<div><div><div>INGENIEROS ESTRUCTURALES CONSULTORES ASOCIADOS INTERNACIONAL</div></div><div><div>PROFESIONAL RESPONSABLE: DIRECCION TECNICA: NOMBRE: ING. ERICH NEUROHR B. N° REG. IC 5721</div></div></div>	
Made by: Department of construction	
Sheet title	
Structural Details	
Content: Columns Details	
Scale: 1:40	Date:11/03/2014
Code:	ST-303



Symbology

C1-(4)

Column Code      Quantity

Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
construction

Sheet title

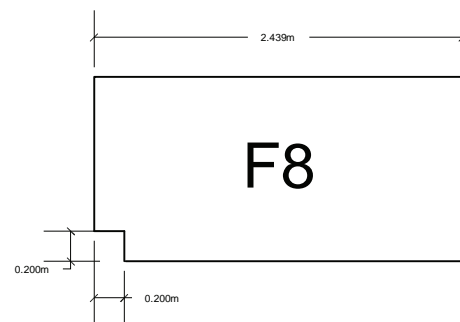
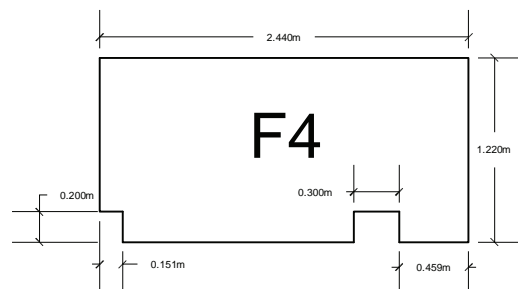
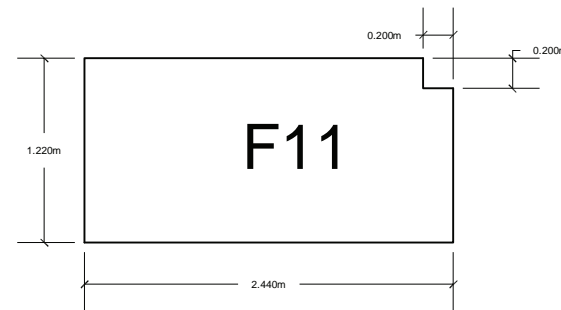
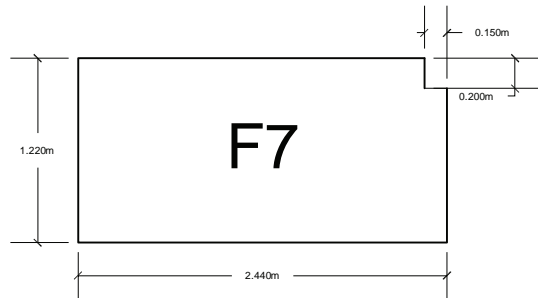
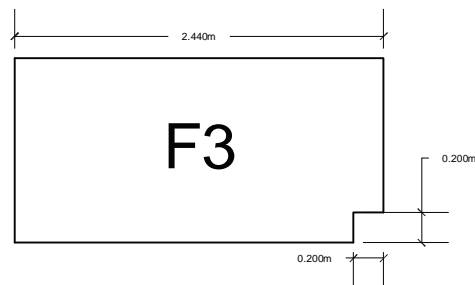
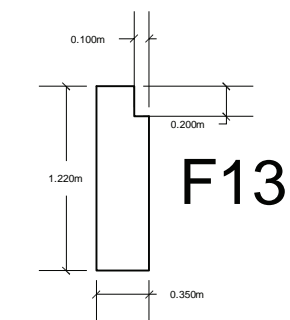
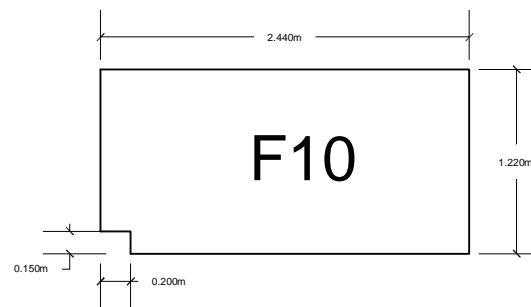
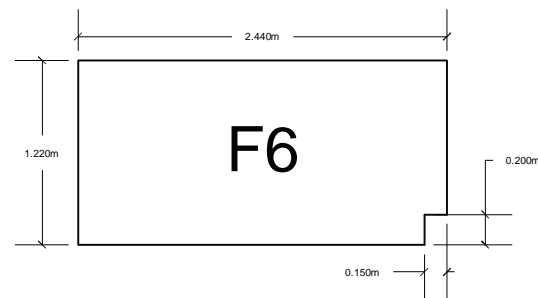
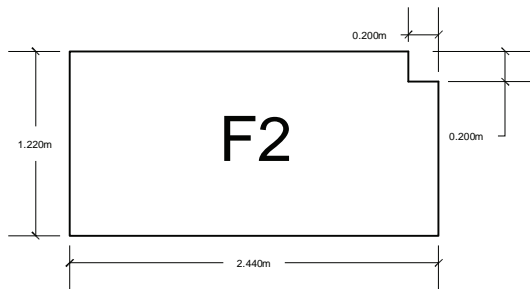
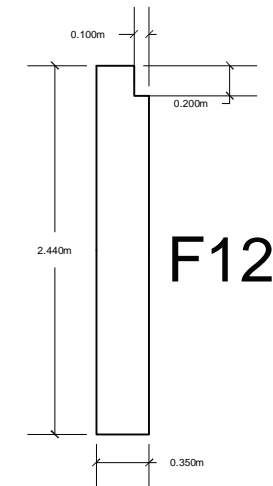
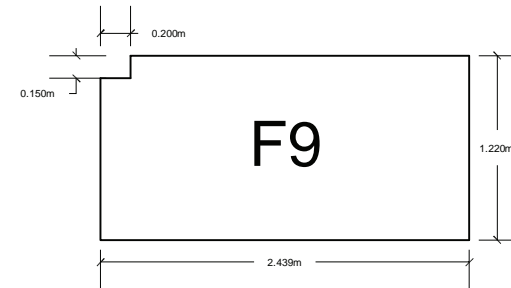
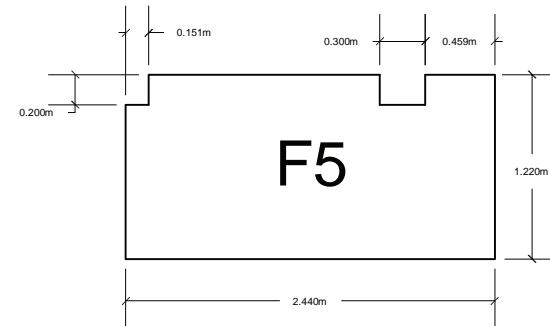
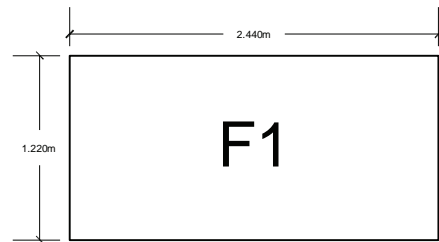
Structural Details

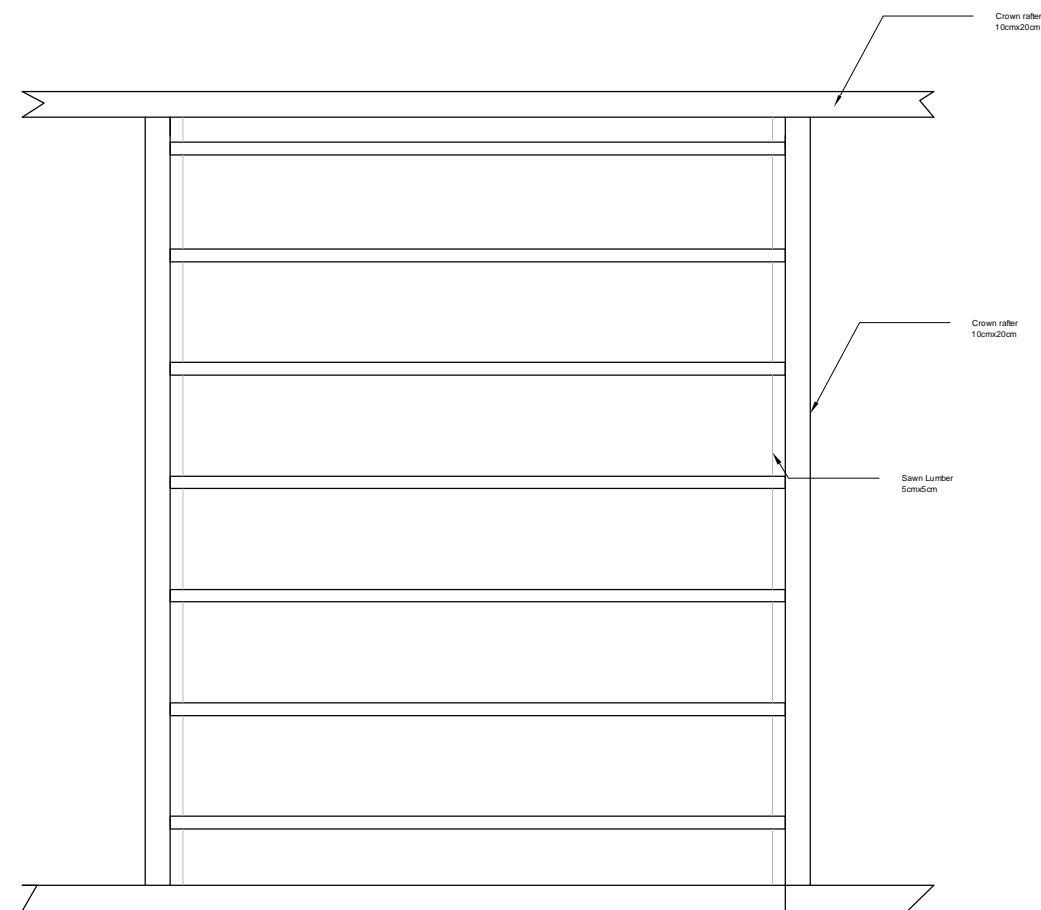
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Scale: 1:40

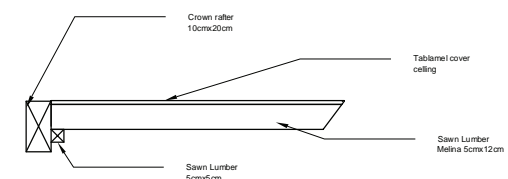
Date: 11/03/2014

Code: **ST-304**





Ceilling bathroom structure



Ceilling detail



## Deliverable #7 Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
construction

Sheet title

Structural Details

Content: Columns Details

Scale: 1:40 Date:11/03/2014

Code: ST-305

# Deliverable # Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
Engineering

Sheet title

Junctions details 1

Content:

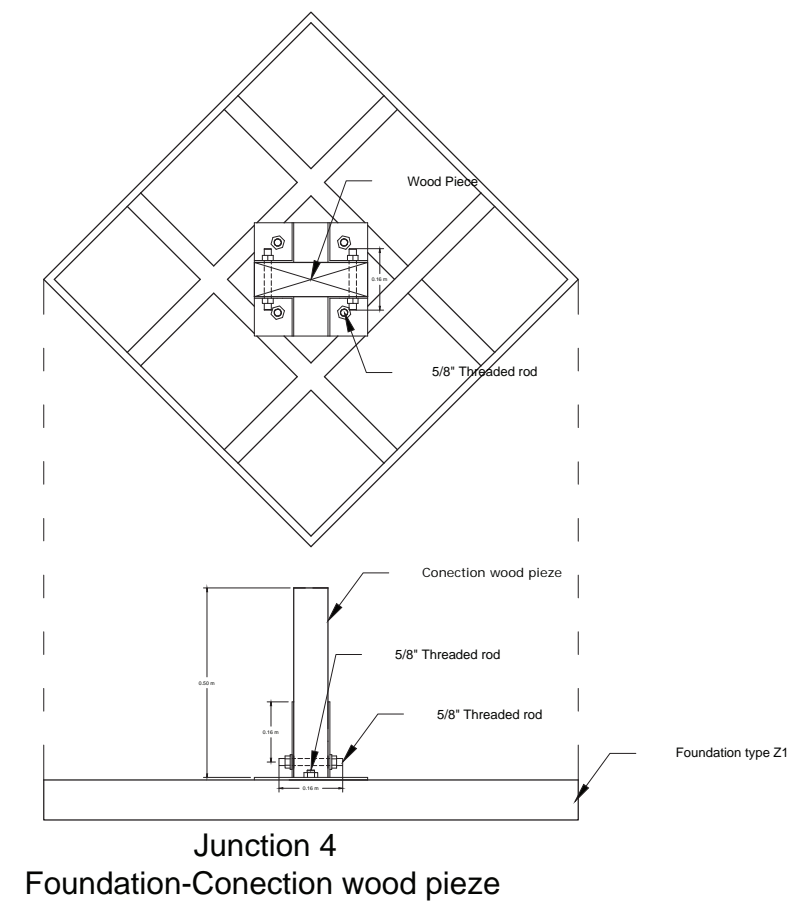
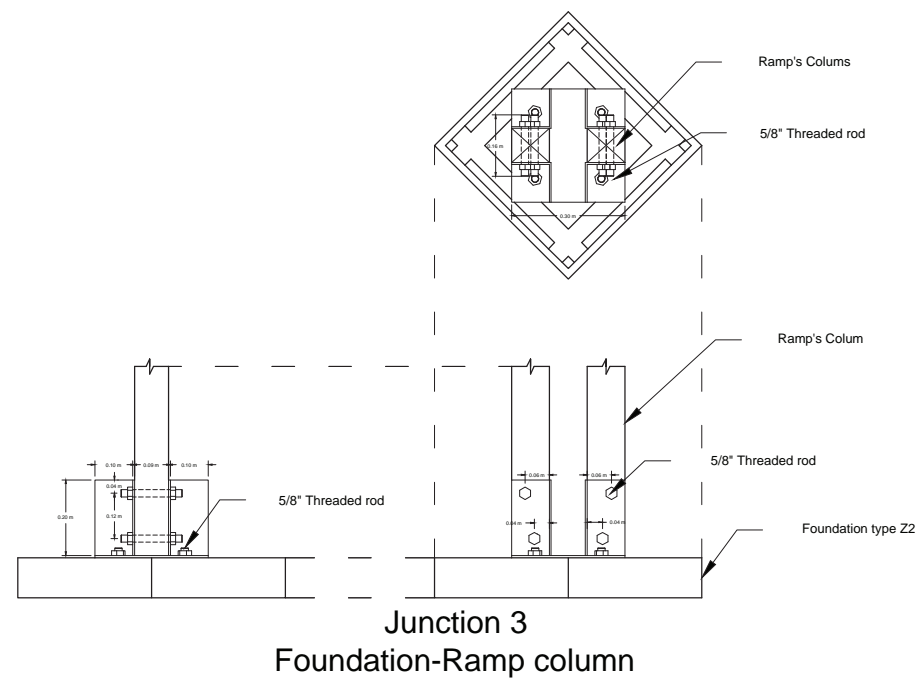
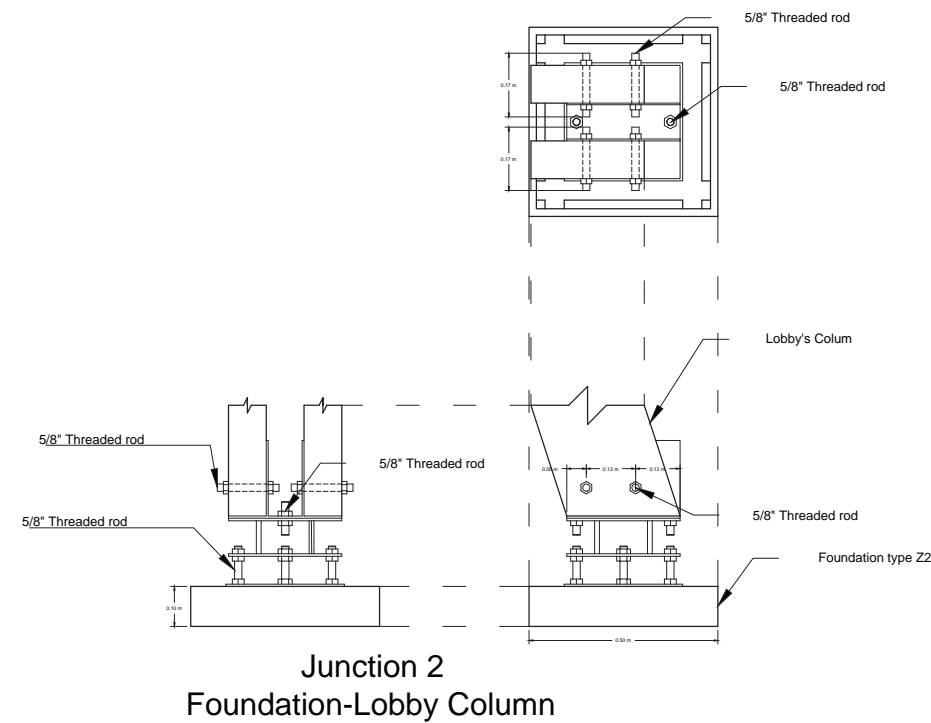
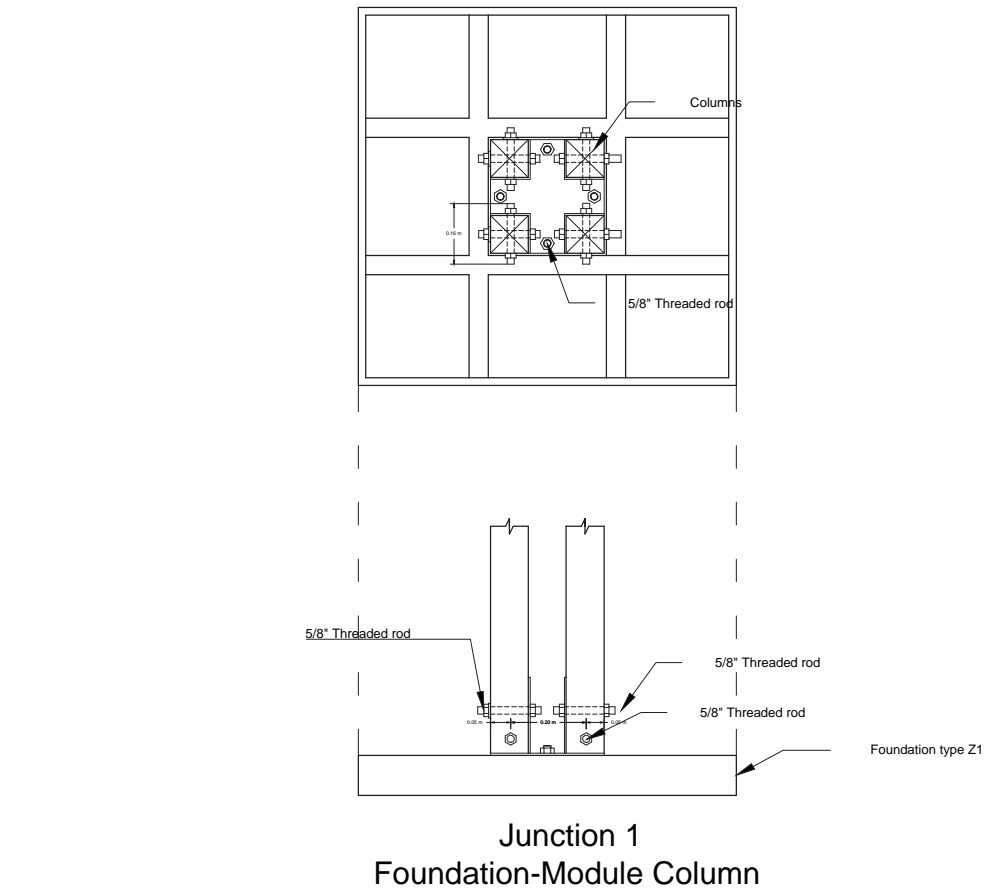
Junctions details  
between foundations  
and different elements

Scale: 1:20

Date: 11/02/2014

Code:

ST-306







Project:	Trópika
Team:	Tec Team
Country:	Costa Rica

**IEC**  
**INTERNACIONAL**

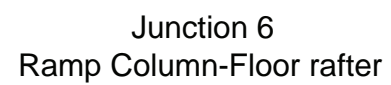
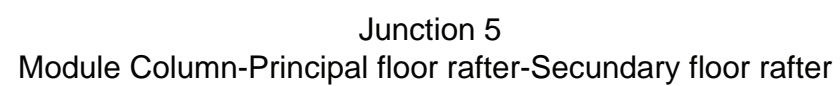
**INGENIEROS ESTRUCTURALES  
CONSULTORES ASOCIADOS**

TEL (506) 2257 7068 FAX (506) 2257 7067  
e-mail: info@iecinternacional.com

**PROFESIONAL RESPONSABLE:**  
**DIRECCION TECNICA:**  
**NOMBRE: ING. ERICH NEUROHR B.**  
**N° REG. IC 5721**

Content: Junctions details between columns and floor rafters.

Code: ST-307



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of Engineering

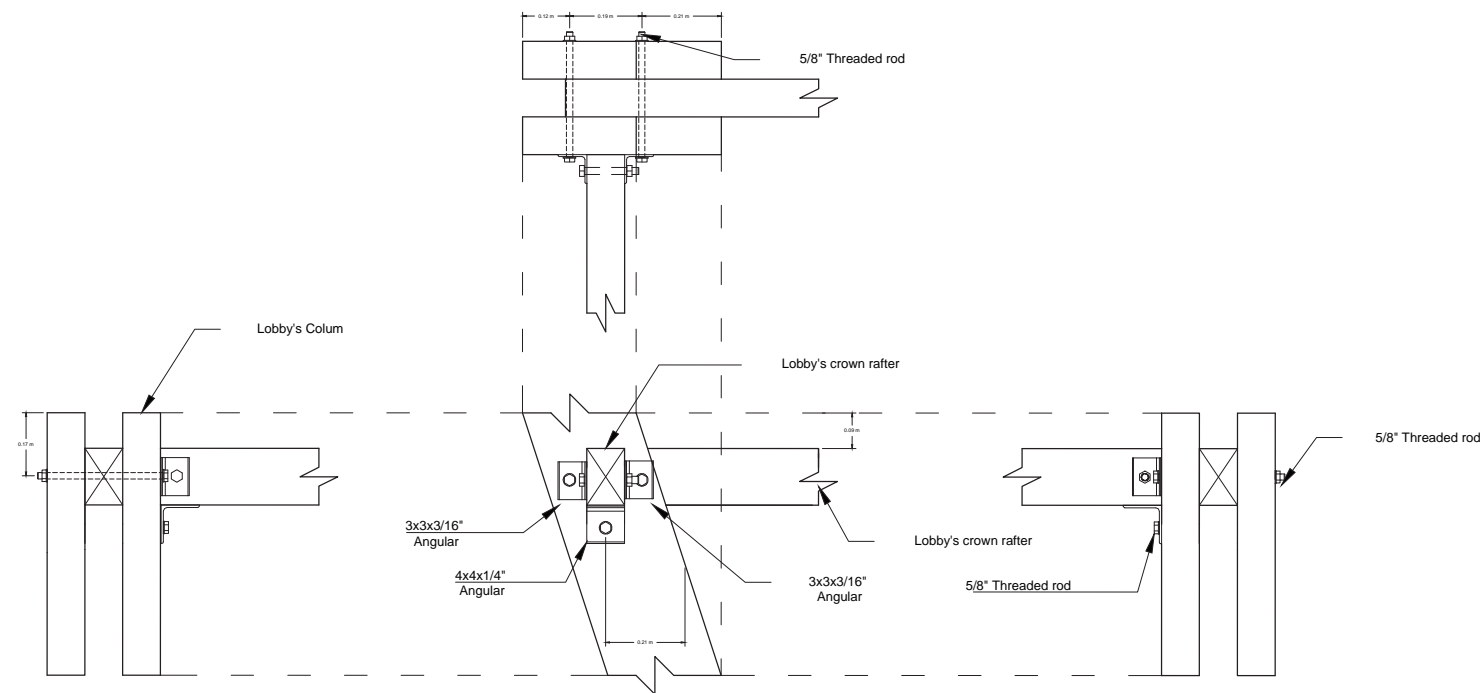
Sheet title

Junctions details 3

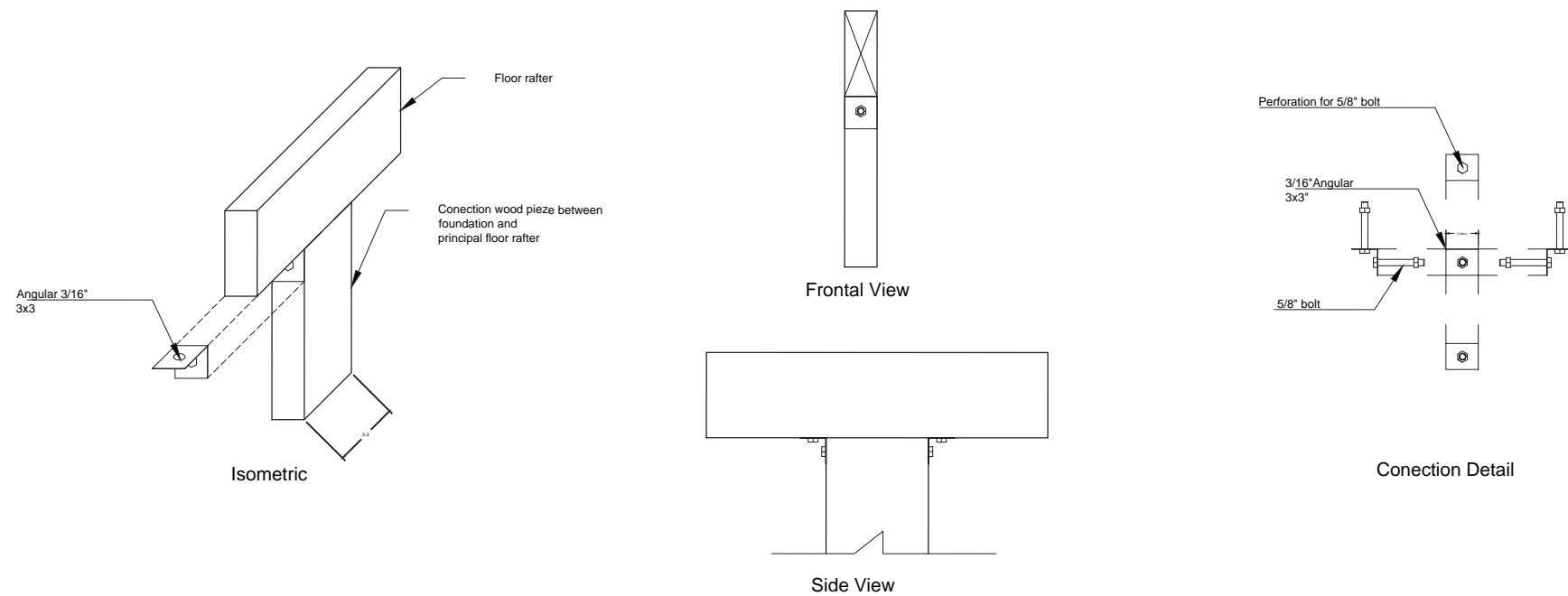
Content: Junctions details between floor rafters and diferent elements

Scale: 1:20      Date 11/02/2014

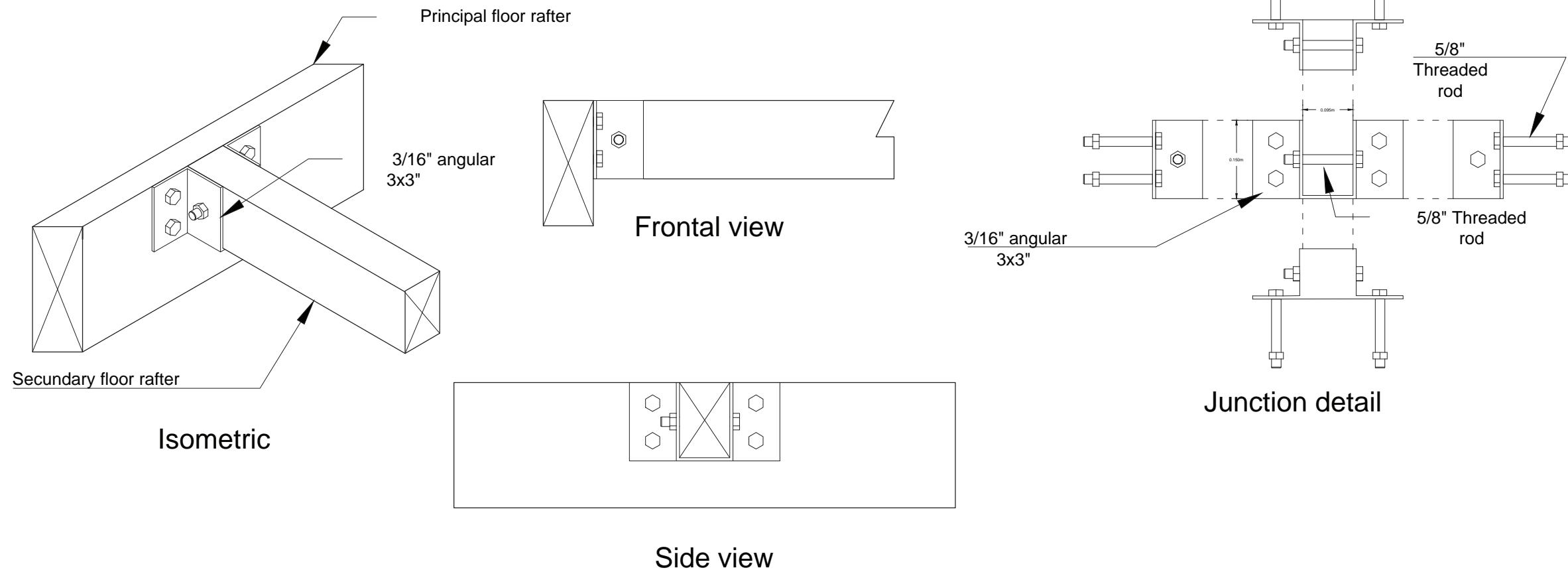
Code: ST-308



Junction 7  
Lobby's Column-Principal floor rafter-Secundary floor rafter

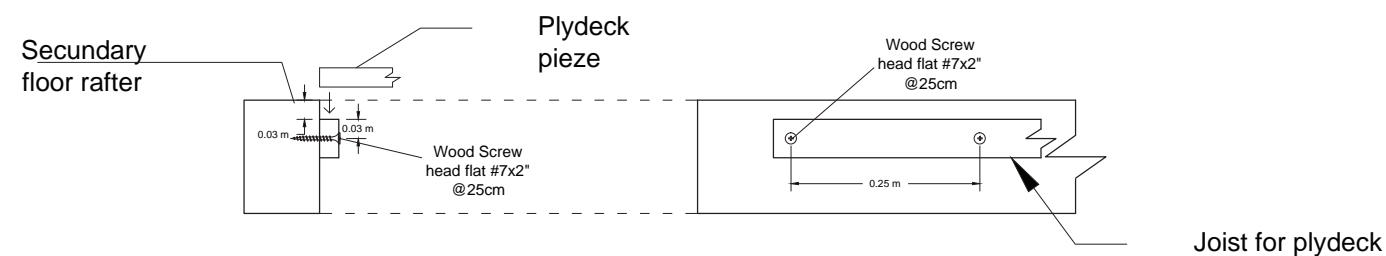


Junction 8  
Conection wood pieze-Floor principal rafter



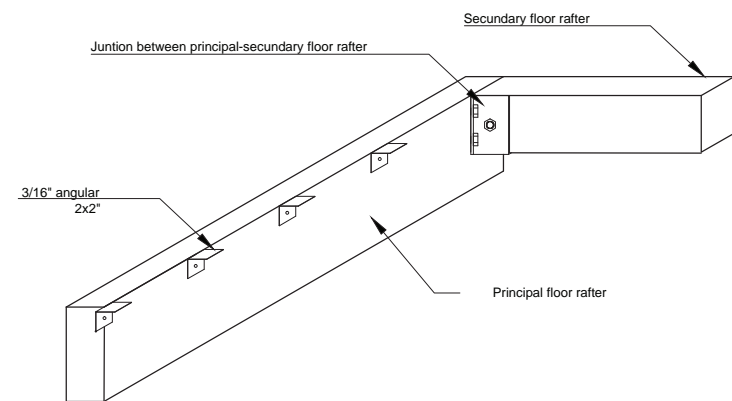
## Junction 9

### Principal floor rafter-Secondary floor rafter

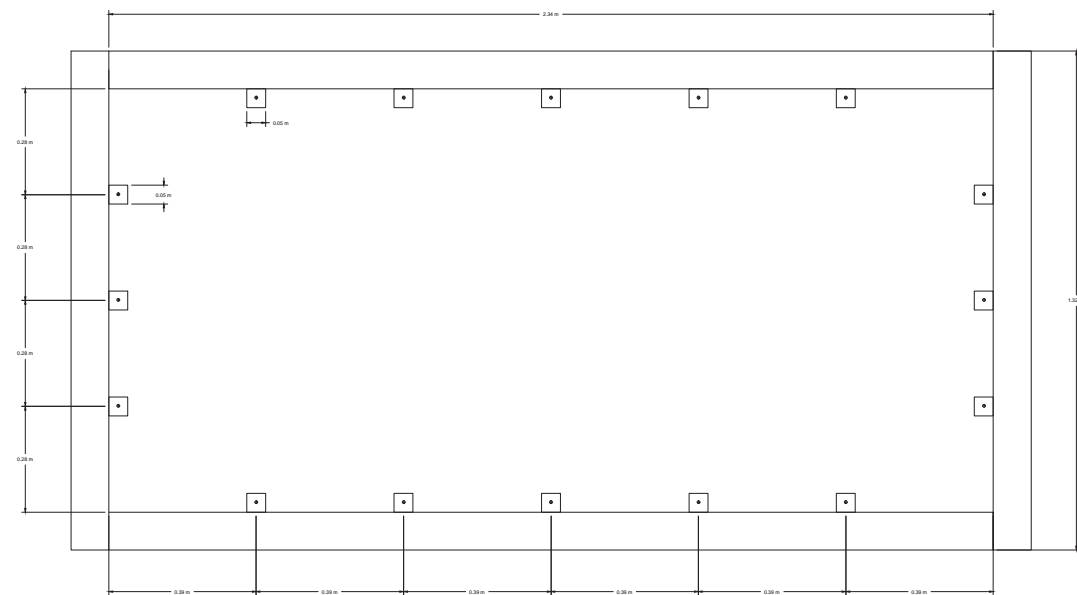


## Junction 10

### Secondary floor rafter-Joist for plydeck

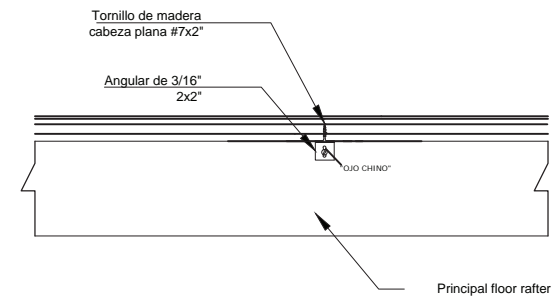


Isometric

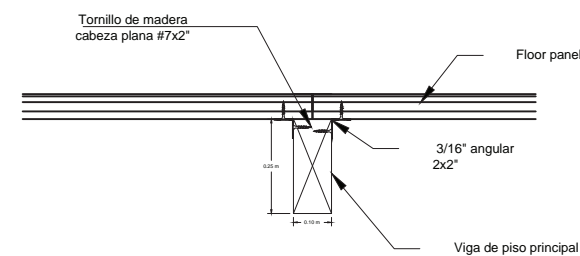


Top view

Junction 11  
Floor rafter-Floor panel



Frontal view



Side view



Detalle de unión



## Deliverable #7 Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Made by: Department of  
Engineering

Sheet title

Junctions details 5

Content: Junctions details  
between floor panel  
floor rafters, principal  
and secondary.

Scale: 1:20

Date 11/02/2014

Code:

ST-310



Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



INGENIEROS ESTRUCTURALES  
CONSULTORES ASOCIADOS

TEL (506) 2257 7068 FAX (506) 2257 7067  
e-mail: info@icenternacional.com

PROFESIONAL RESPONSABLE:  
DIRECCION TECNICA

NOMBRE: ING. ERICH NEUROHR B.  
N° REG. IC 6721

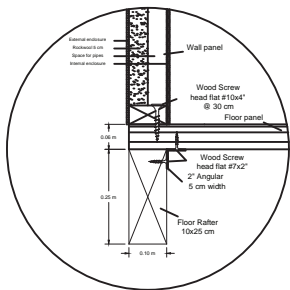
Made by: Department of  
Engineering

Sheet title  
Junctions details 6

Content: Junctions details  
between walls panels.

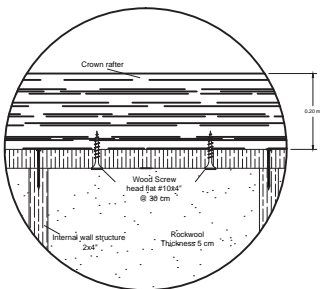
Scale: 1:20      Date 11/02/2014

Code: ST-311



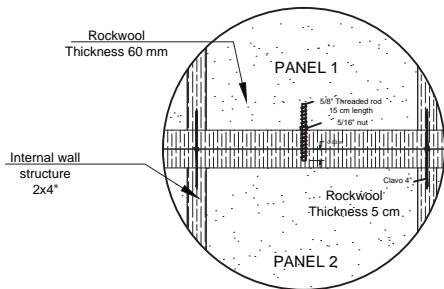
Section view

Junction 12  
Wall panel- Floor panel

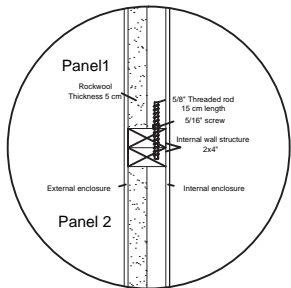


Profile view

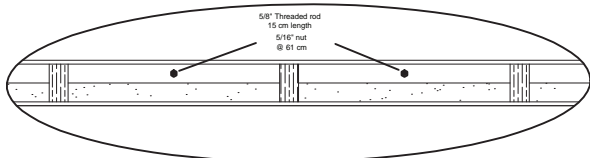
Junction 14  
Wall panel-Crown rafter



Profile view



Section view



Top view

Junction 13  
Wall panel-Wall panel

Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



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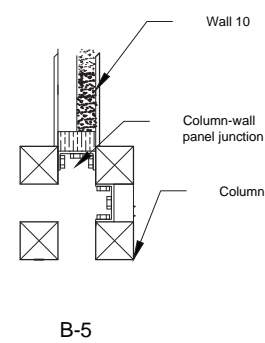
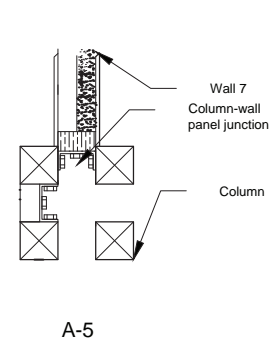
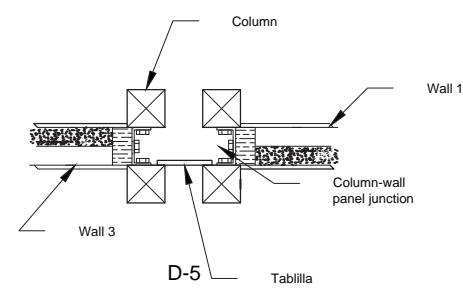
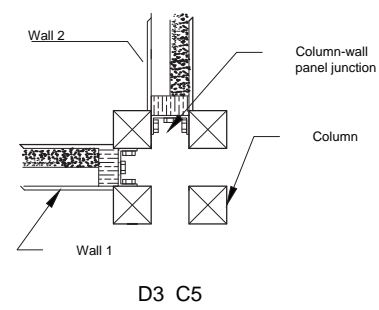
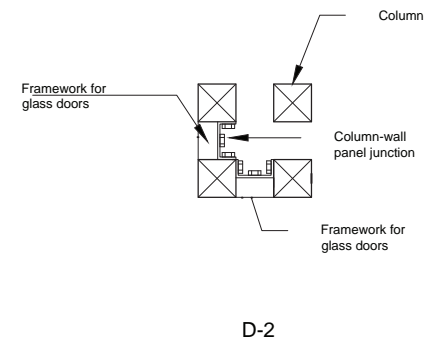
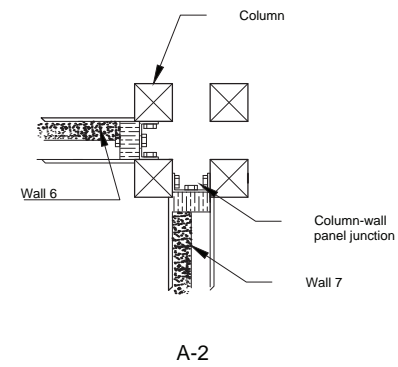
Sheet title

Junctions details 7

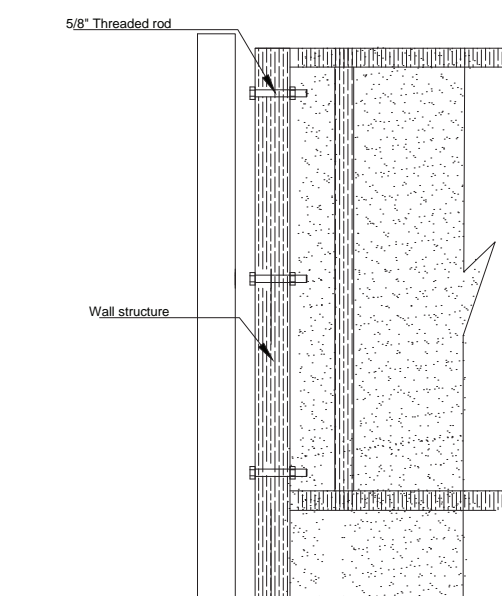
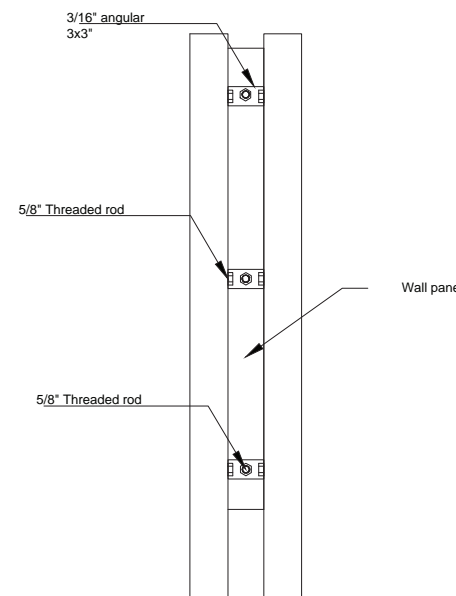
Content: Junctions details  
between walls panels  
and columns.

Scale: 1:20 Date 11/02/2014

Code: ST-312



Junction 15  
Wall panel-Column



# Deliverable #7 Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



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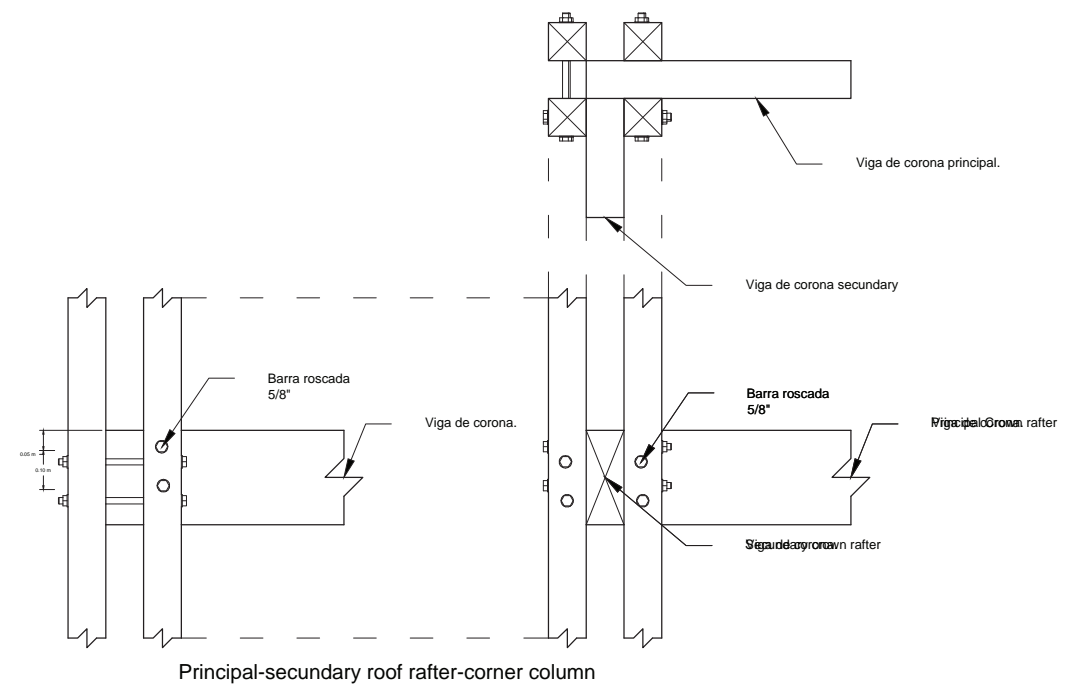
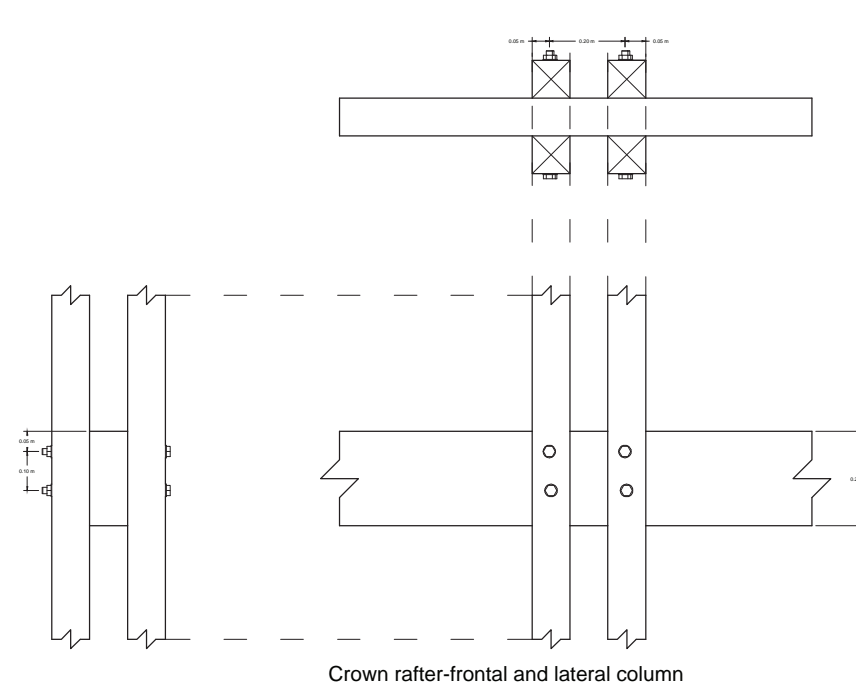
Sheet title

Junctions details 8

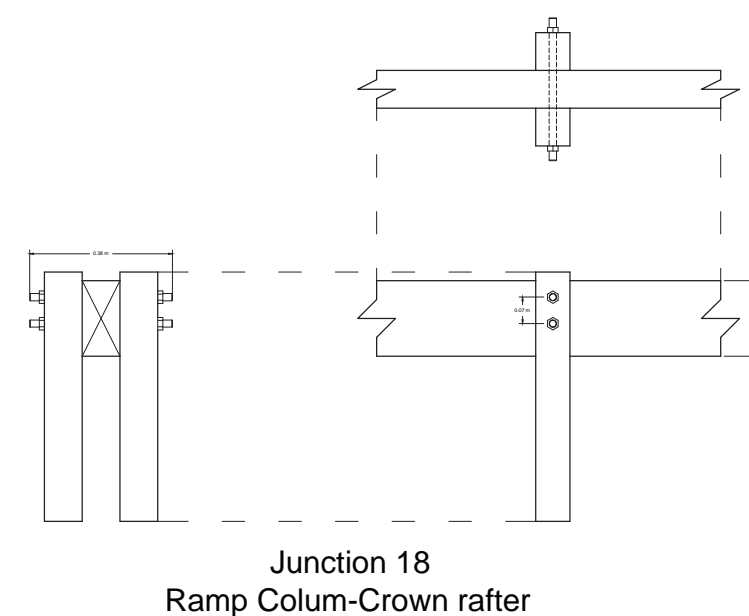
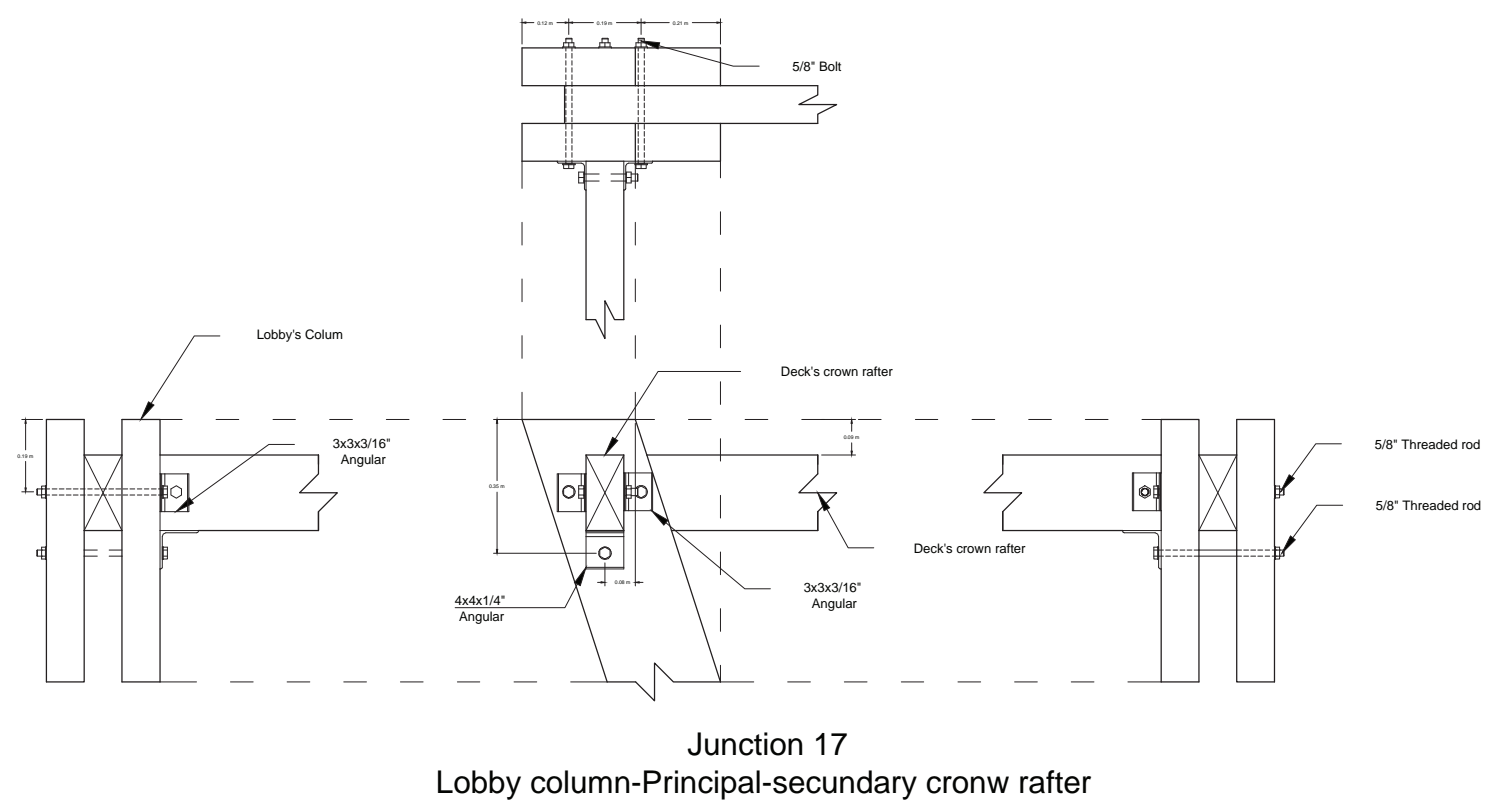
Content: Junctions details between diferente types of clumns and the principal and secondary crown rafter.

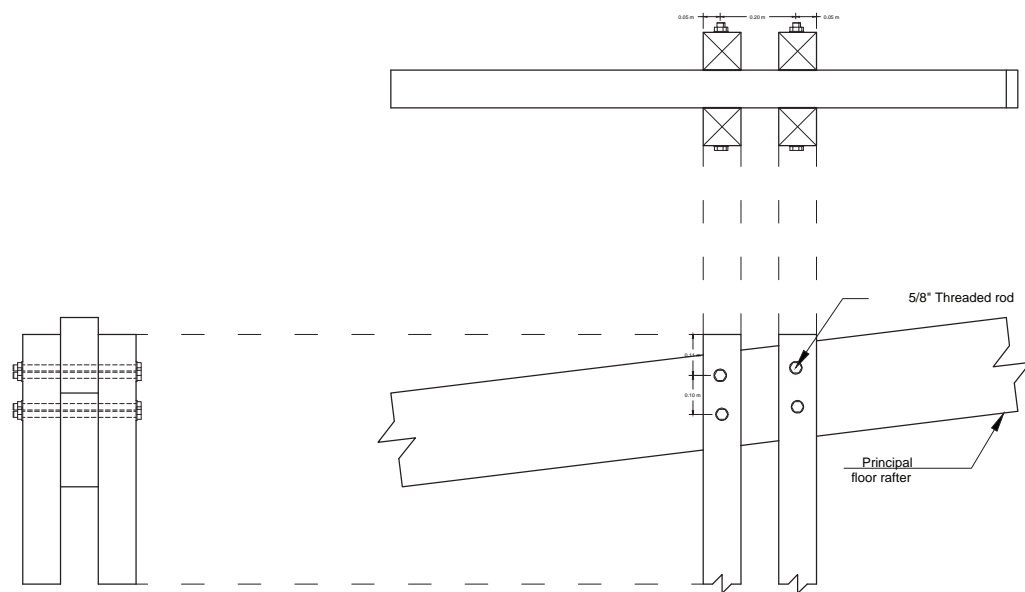
Scale: 1:20 Date 11/02/2014

Code: ST-313

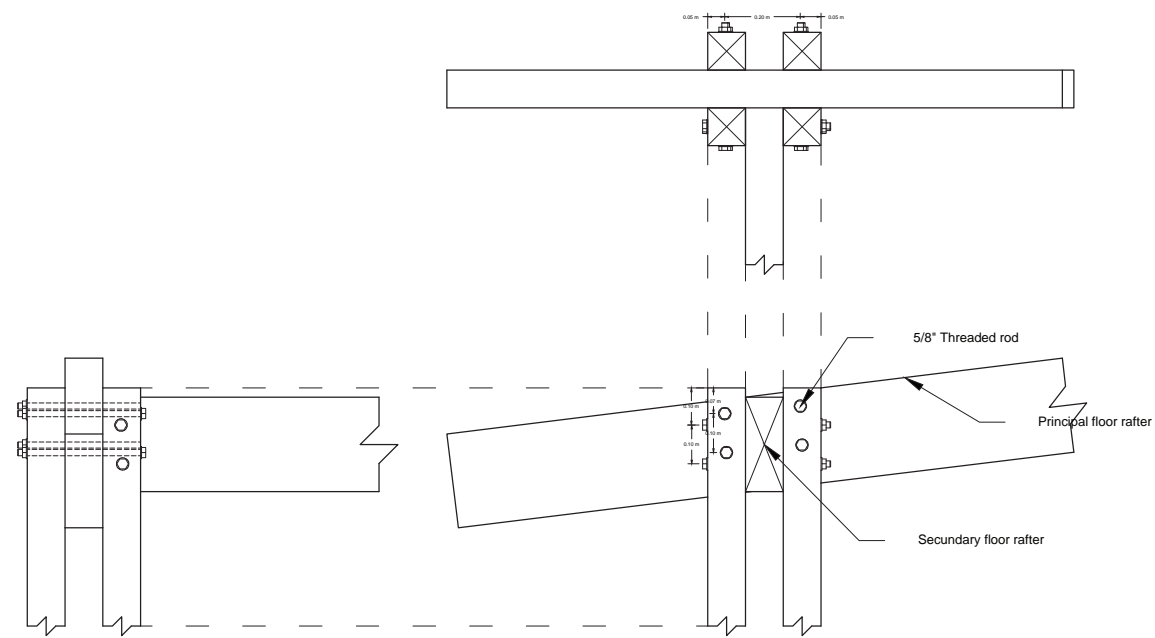


## Junction 16 Module column-principal crown rafter-secondary crown rafter

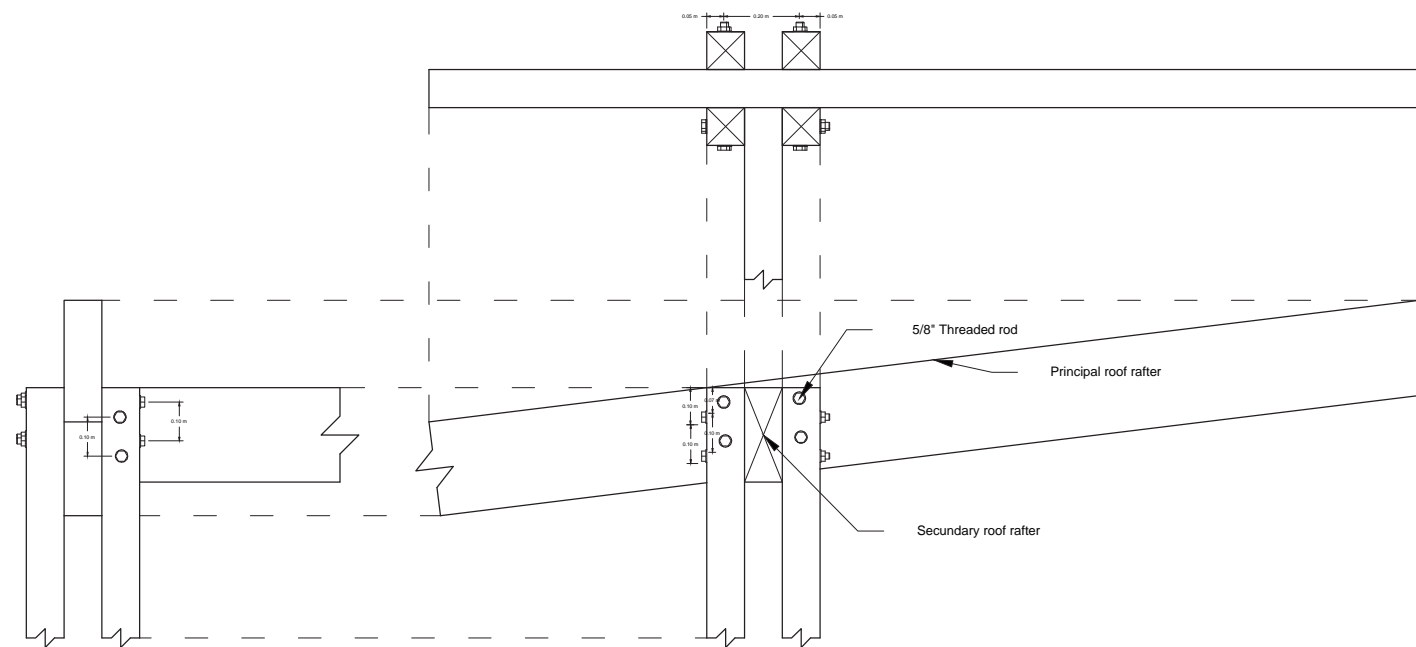




Column type C2-Roof rafter union



Column type C3-Roof rafter union



Column type C1-Roof rafter union

Junction 19

**Deliverable #7**  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



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Sheet title

Junctions details 9

Content: Junctions details  
between diferent  
types columns  
and roof rafters.

Scale: 1:20 Date 11/02/2014

Code: **ST-314**



Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



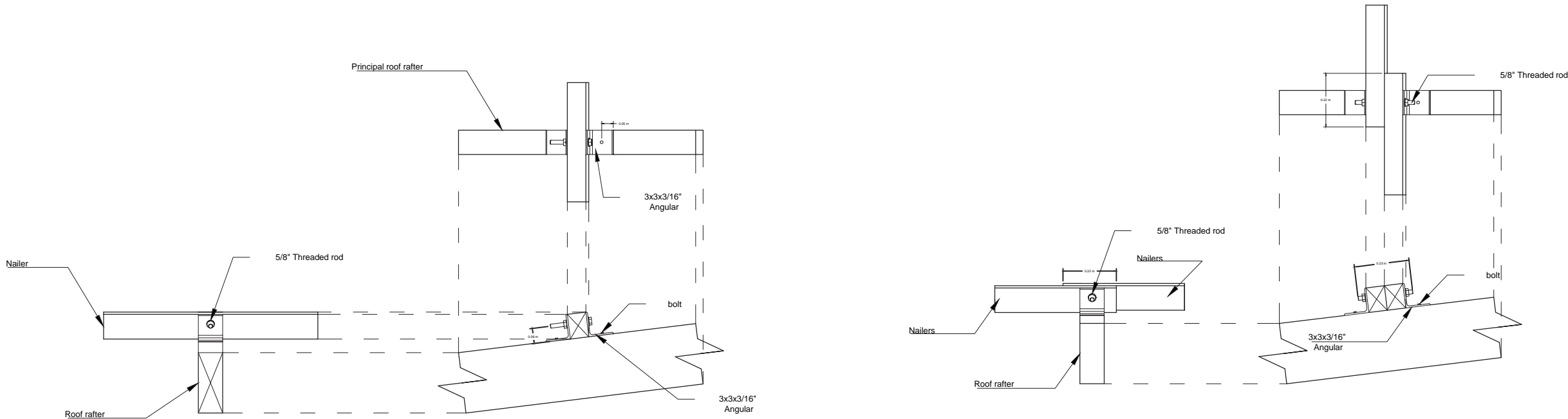
Made by: Department of  
Engineering

Sheet title  
Junctions details 10

Content: Junctions details  
between roof rafters  
and nailers, and  
marquee-crown rafter.

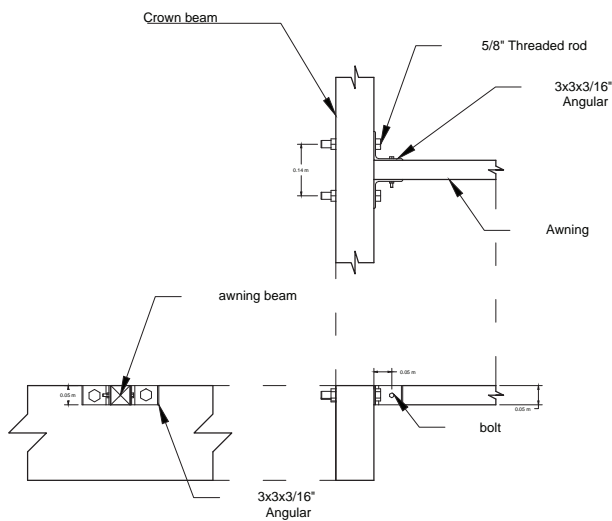
Scale: 1:20      Date11/02/2014

Code: ST-315

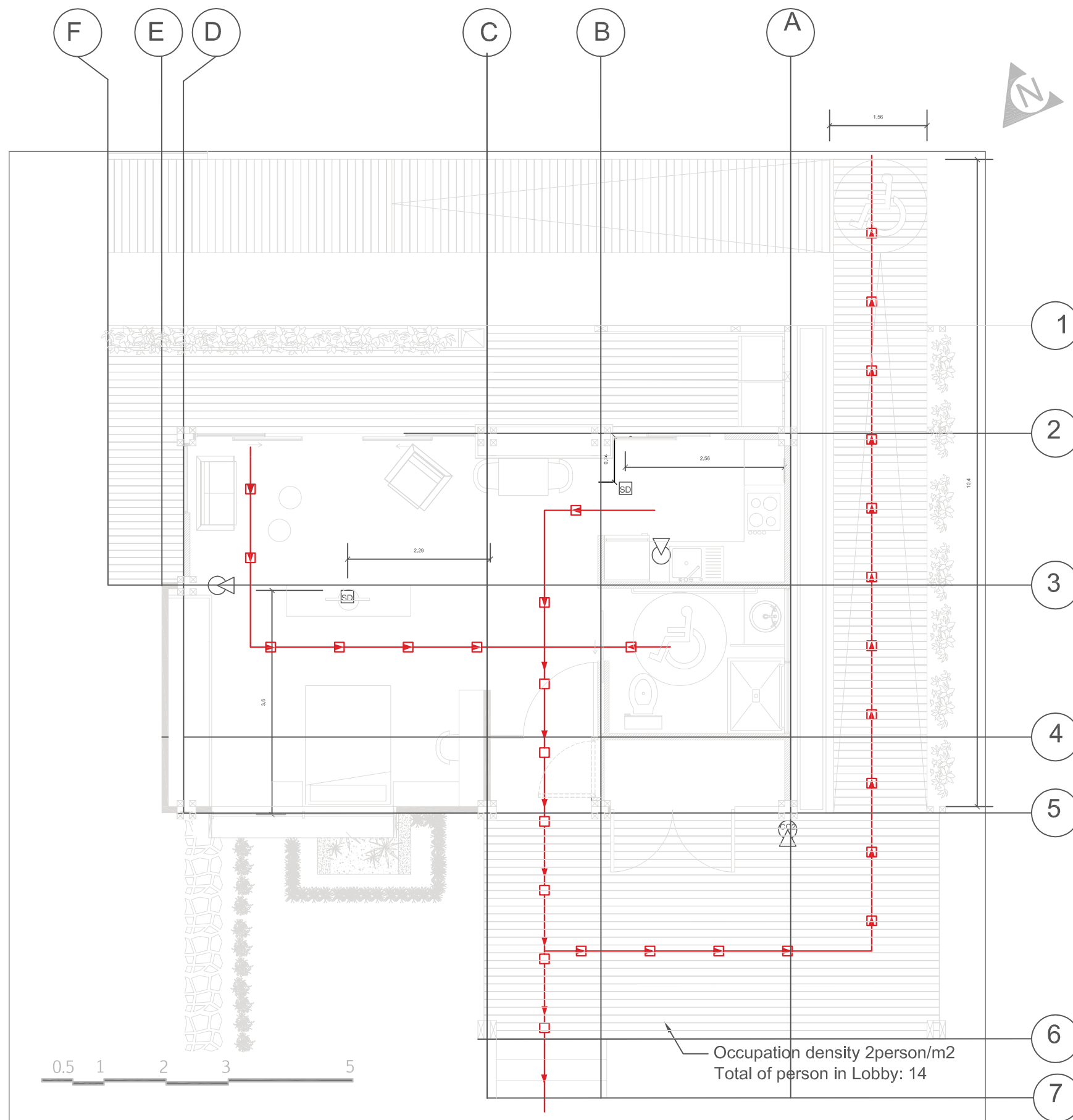


Junction 20  
Principal roof rafter-Nailer

Junction 21  
Nailer-Nailer



Junction 22  
Marquee-Crown rafter



PLAN LEGENDS	
	Extinguisher ABC_21A-113B
	Extinguisher BC_21A-113B
	Smoke Detector FG200 Unwired Alar
	Evacuation Route

Keys Notes
1. All smoke sensors are embed in the ceiling
2. All extinguisher are installed 0,9 height floor
3. Entrance ramp compliant with rule 51.3 (width:1,56m)

Deliverable #7

Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of Engineering

Sheet title

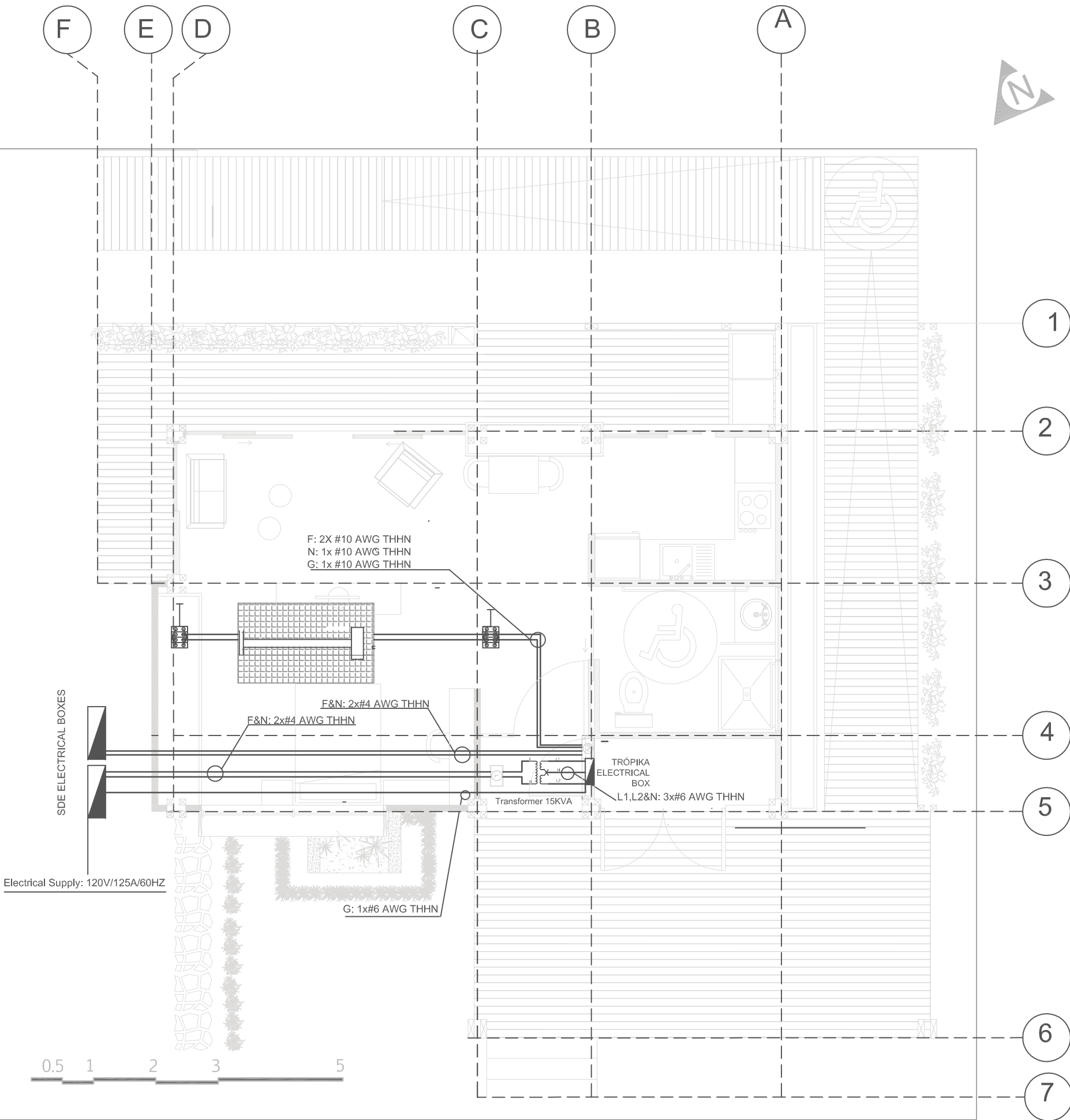
Fire Protection

Content: Detection, Alarm, Evacuation Route and Supression

Scale: 1:75

Date: 11/3/2014

Code: FP-001



GENERAL PANEL

SEALED TRANSFORMER 15kVA

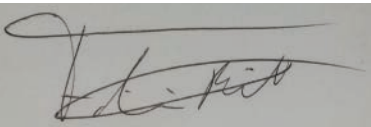
JUNCTION BOX NEMA 3R

PV SYSTEM GENERATION

ENERGY METER

Keys Notes

1. SDE Interconnection point, location to be confirmed  
2. Canalization with 31.750mm Metallic Conduit  
3. #6 AWG (13.3 mm2)  
4. #8 AWG (8.37 mm2)  
5. #10 AWG (5.26 mm2)

Deliverable #7 Project Drawings	
Project: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
<div></div> <div>Eng. Fabricio Bonilla Pacheco Professional ID: MI-25961</div>	
Made by: Department of Engineering	
Sheet title Grid Inteconnection	
Content: Grid Interconnection Diagram	
Scale: 1:75	Date:03/11/2014
Code: EL-001	

Service conductors (SDE box to transformer)		
Size	4	
Area	21,15	mm2
Length	5	m
Current	100,0	A
Voltage drop (e%)	0,39	%

Service conductors (SDE box to transformer)		
2 THHN (L1 and L2) #	4	
1 THHN (N) #	4	
1 THHN (G) #	6	
Conduit diameter	35	mm

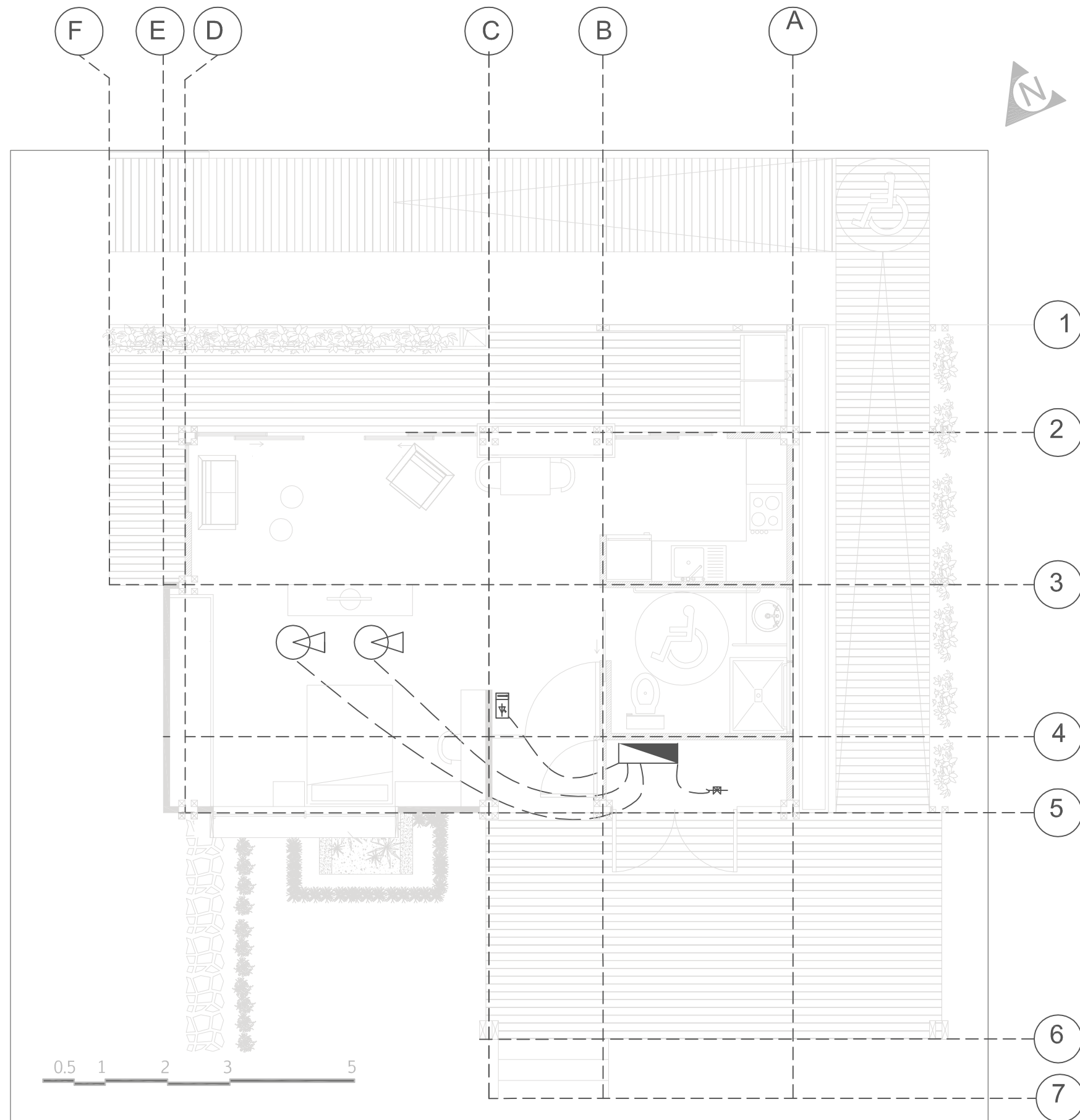
SDE main Protection		
Voltage	120	V
Poles	1	
Maximum current	100,0	A
Nominal current	110	A

Service conductors (Transformer to PB-EL)		
Size	6	
Area	13,3	mm2
Length	15	m
Current	50,0	A
Voltage drop (e%)	0,94	%

Service conductors (Transformer to PB-EL)		
2 THHN (L1 and L2) #	6	
1 THHN (N) #	6	
1 THHN (G) #	6	
Conduit diameter	27	mm

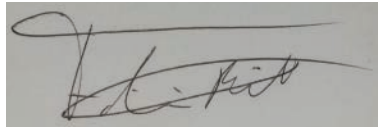
Tropika main Protection (EL)		
Voltage	240	V
Poles	2	
Maximum current	50,0	A
Nominal current	100	A

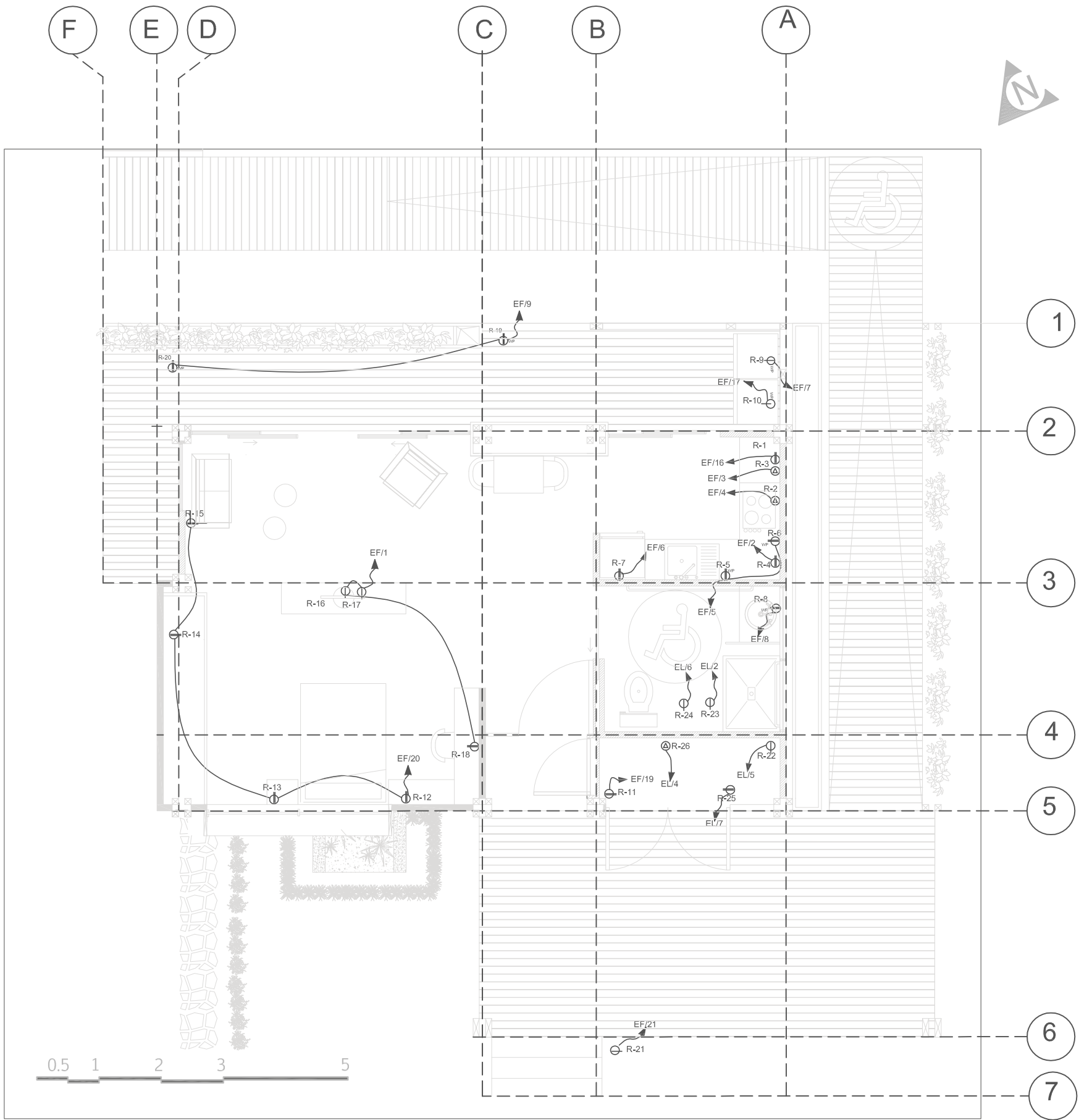




ELECTRIC LEGENDS	
	Trópika Electrical Box
	Water Pump
	Electrovalve
	IP Touch Panel
Keys Notes	
1. 24Vdc circuits. Channeling metal conduit Ø12,7mm	
1. Three Wires THHN AWG#14 (2,08mm2)	



Deliverable #7 Project Drawings	
Proyect: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
 Eng. Fabricio Bonilla Pacheco Professional ID: MI-25961	
Made by: Department of Engineering	
Sheet title	
DC Wiring	
Content:DC Wiring	
Scale: 1:75	Date:03/11/2014
Code: EL-201	



ELECTRIC LEGENDS	
	NEMA 5-20 120V HORIZONTALLY INTEGRALLY SWITCHED DOUBLE SOCKET
	NEMA 5-20 120V HORIZONTALLY INTEGRALLY SWITCHED SIMPLE SOCKET
	240V HORIZONTALLY INTEGRALLY SWITCHED SIMPLE SOCKET
WP	WATER PROOF
Keys Notes	
1. 240V circuits. Channeling metal conduit Ø19,05mm	
2. 120V circuits. Channeling metal conduit Ø12,7mm	



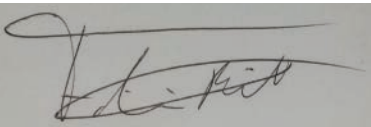
Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

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Eng. Fabricio Bonilla Pacheco  
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Engineering

Sheet title  
Power Plan

Content: Power Plan Diagram

Scale: 1:75      Date: 03/11/2014

Code: EL-301



Deliverable #7

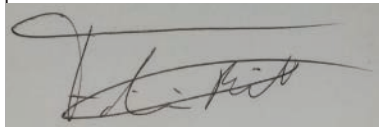
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Eng. Fabricio Bonilla Pacheco  
Professional ID: MI-25961

Made by: Department of Engineering

Sheet title

Power Plan

Content: Power Plan Specification

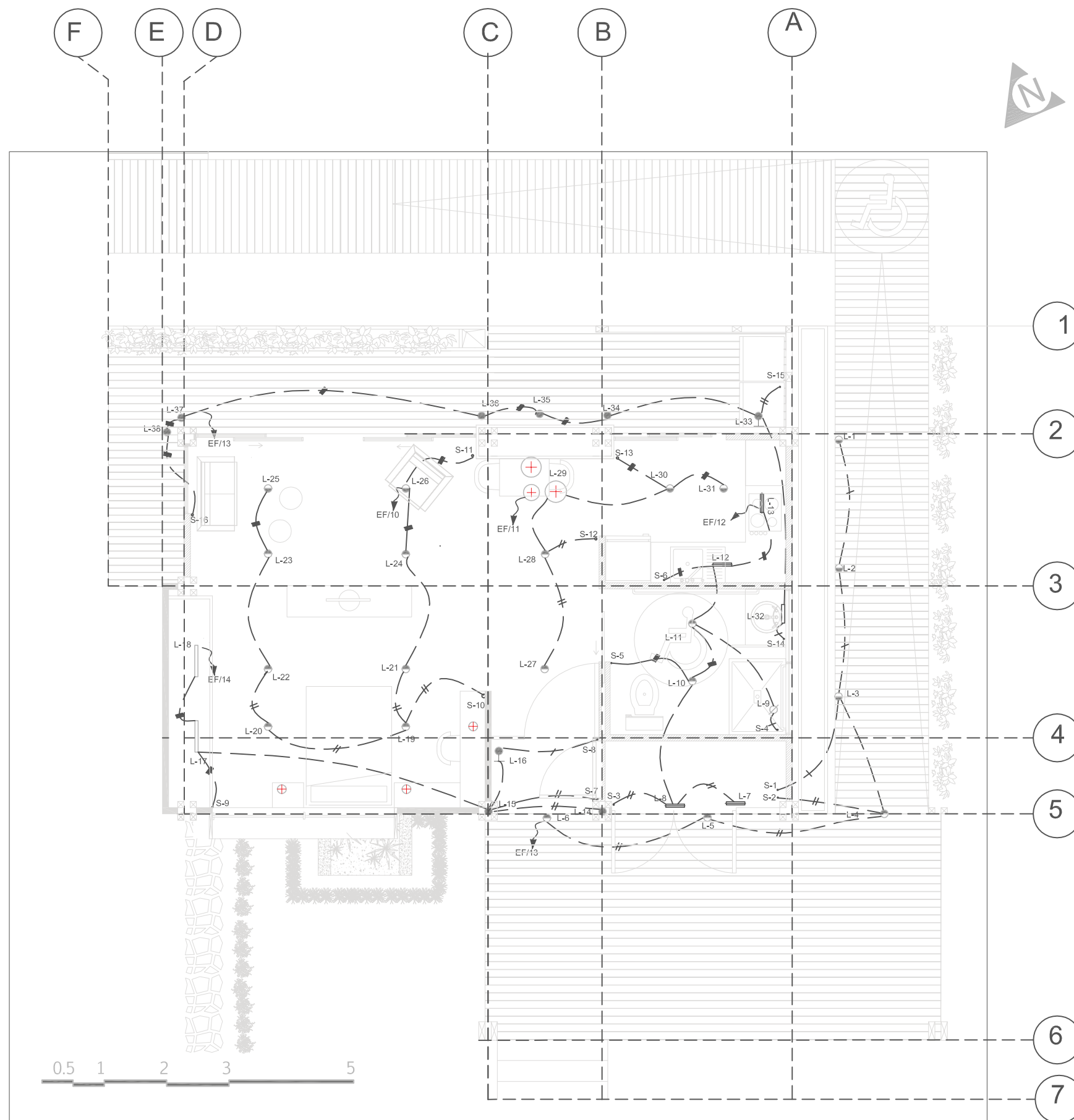
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Date:03/11/2014

Code:

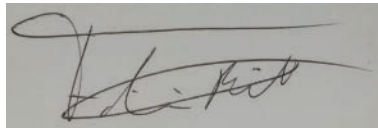
EL-302

Code	Location	Breaker type	Voltage (V)	Current (A)		Breaker (POL/A)	Circuit	Wire Gauge (THHN)		HEIGHT (m)
				L1	L2			AWG	mm2	
R-1	Kitchen	AFCI	120		14,6	1/15	EF/16	10	5,26	0,60
R-2	Kitchen	AFCI	240	9,8	9,8	2/15	EF/4	12	3,31	0,60
R-3	Kitchen	AFCI	240	12,9	12,9	2/20	EF/3	10	8,37	0,90
R-4	Kitchen	AFCI	120	9,2		1/15	EF/2	12	3,31	1,00
R-5	Kitchen	GFCI	120		4,17	1/15	EF/5	12	3,31	1,00
R-6	Kitchen	GFCI	120		4,17	1/15		12	3,31	1,00
R-7	Kitchen	AFCI	120	1,3		1/15	EF/6	12	3,31	1,10
R-8	Restroom	GFCI	120	1,3		1/15	EF/8	12	3,31	1,10
R-9	Laundry	GFCI	120	11,5		1/15	EF/7	12	3,31	0
R-10	Laundry	GFCI	120		7,8	1/15	EF/17	10	5,26	0
R-11	Electrical/mechanical room	AFCI	120		2,6	1/15	EF/19	12	3,31	0,90
R-12	Bedroom	AFCI	120		2,6	1/15	EF/20	12	3,31	0,60
R-13	Bedroom									
R-14	Bedroom									
R-15	Flexible area									
R-16	Multimedia	AFCI	120		1,1	1/15	EF/1	12	3,31	0
R-17	Multimedia									0
R-18	Work-station									0,90
R-19	Terrace	GFCI	120		2,5	1/15	EF/9	12	3,31	0
R-20	Terrace									0
R-21	Lobby	GFCI	120		0,4	1/15	EF/21	12	3,31	0
R-22	Electrical/mechanical room	GFCI	120		4,2	1/15	EL/5	12	3,31	1,20
R-23	Electrical/mechanical room	GFCI	120	9,0		1/15	EL/2	12	3,31	2,70
R-24	Electrical/mechanical room	GFCI	120		6,7	1/15	EL/6	12	3,31	2,70
R-25	Electrical/mechanical room	GFCI	120		9,0	1/15	EL/7	12	3,31	0
R-26	Electrical/mechanical room	GFCI	240	0,6		1/15	EL/4	12	3,31	0



ELECTRIC LEGENDS	
	Spot outdoor floor
	Spot PAR 20
	Spot dirigible PAR 20
	Shower Spot
	LED TUBE 8W
	Closet Lamp
	Decorative Lamp
	Table Lamp



Deliverable #7 Project Drawings	
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Sheet title	
Lighting Plan	
Content: Lighting Plan Diagram	
Scale: 1:75	Date:03/11/2014
Code: EL-401	



Code	Location	Configuration (R: recessed; M: mounted)	Type	Circuit	Switch	Voltage (V)	Current (A)	Breaker (POL/A)	Wire gauge (AWG)		
									Line	Neutral	Earth
L-1	Green tunnel	R: Floor	Exterior	EF/13	S1	120	0,2	1/15	#12	#12	#14
L-2	Green tunnel	R: Floor	Exterior								
L-3	Green tunnel	R: Floor	Exterior								
L-4	Lobby	R: Ceiling	Exterior		S2						
L-5	Lobby	R: Ceiling	Exterior								
L-6	Lobby	R: Ceiling	Exterior								
L-7	Machine room	R: Floor	Led strip	EF/12	S3	120	0,5	1/15	#12	#12	#14
L-8	Machine room	R: Floor	Led strip								
L-9	Shower	R: Ceiling	Water proof		S4						
L-10	Restroom	R: Ceiling	Interior		S5						
L-11	Restroom	R: Ceiling	Interior								
L-12	Kitchen Furniture	R: Ceiling	Led strip		S6						
L-13	Kitchen Furniture	R: Ceiling	Led strip								
L-14	Principal Entrance	R: Floor	Spot		EF/15						
L-15	Principal Entrance	R:Floor	Spot								
L-16	Principal Door	M:Door	Exterior								
L-17	Closet	R: Closet	Led strip	S9							
L-18	Closet	R: Closet	Led strip								
L-19	Bedroom	R: Ceiling	Spot	EF/10	S10	120	0,4	1/15	#12	#12	#14
L-20	Bedroom	R: Ceiling	Spot								
L-21	Bedroom	R: Ceiling	Spot								
L-22	Bedroom	R: Ceiling	Spot								
L-23	Flexible area	R: Ceiling	Spot		S11						
L-24	Flexible area	R: Ceiling	Spot								
L-25	Flexible area	R: Ceiling	Spot								
L-26	Flexible area	R: Ceiling	Spot								
L-27	Corridor	R: Ceiling	Spot	EF/11	S12	120	0,5	1/15	#12	#12	#14
L-28	Corridor	R: Ceiling	Spot								
L-29	Corridor	Pendant	P. lamp								
L-30	Kitchen	R: Ceiling	Spot		S13						
L-31	Kitchen	R: Ceiling	Spot								
L-32	Bathroom Mirror	M:Wall	Interior	EF/14	S14	120	0,4	1/15	#12	#12	#14
L-33	Laundry	M:Wall	Exterior								
L-34	Terrace	R:Floor	Exterior		S16						
L-35	Terrace	R:Floor	Exterior								
L-36	Terrace	R:Floor	Exterior								
L-37	Terrace	R:Floor	Exterior								
L-38	Terrace	R:Floor	Exterior								

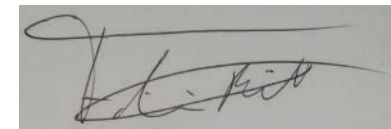
Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Eng. Fabricio Bonilla Pacheco  
Professional ID: MI-25961

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Sheet title

Lighting Plan

Content: Lighting Plan  
Specification

Scale: N.A      Date:03/11/2014

Code: EL-402

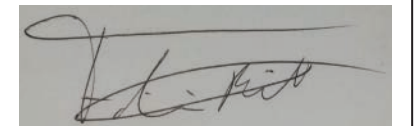
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Project Drawings

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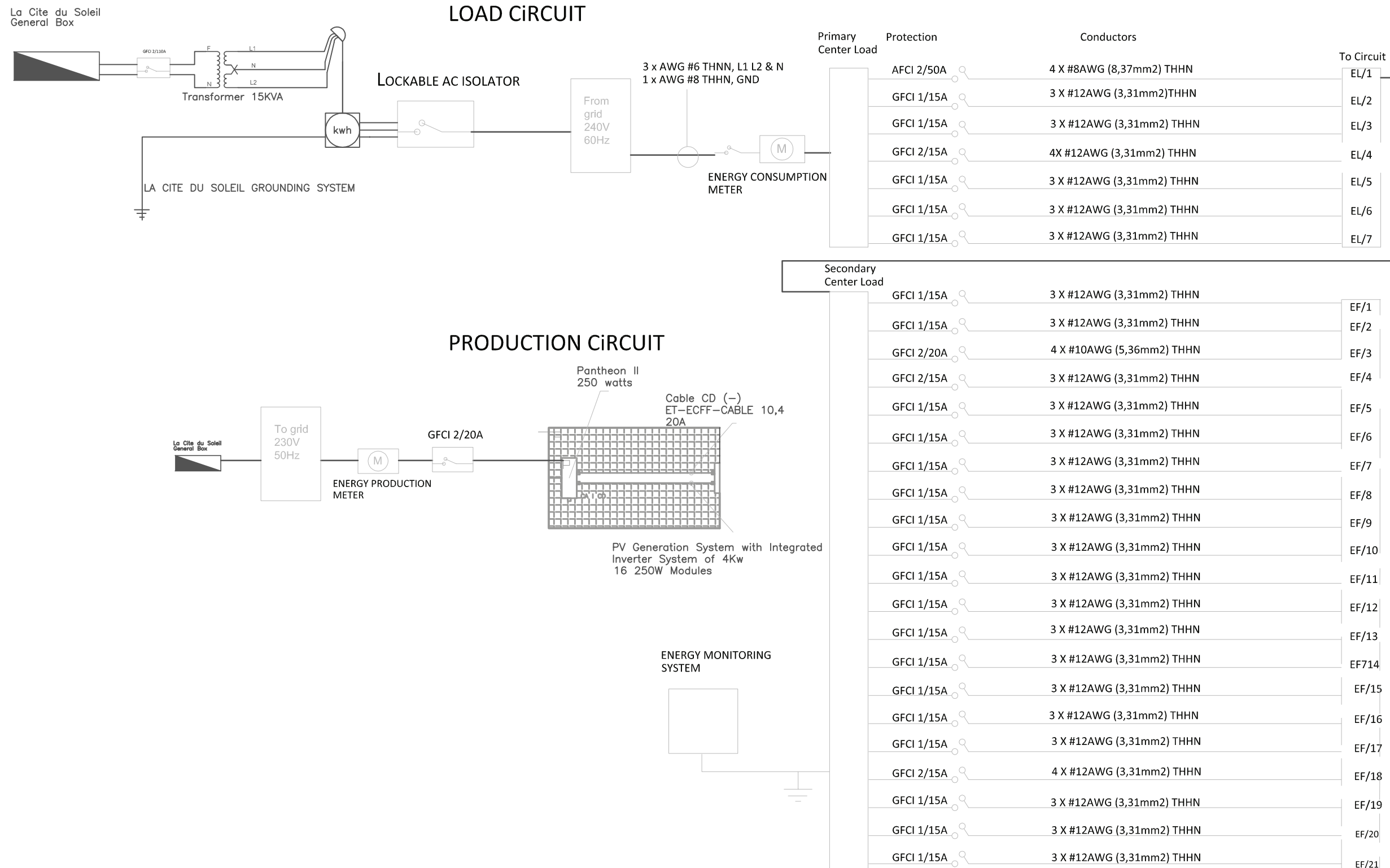
Sheet title

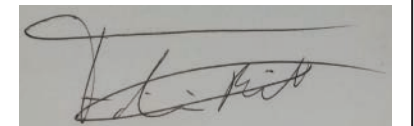
One Line Diagram

Content: One Line Diagram

Scale: NA Date: 03/11/2014

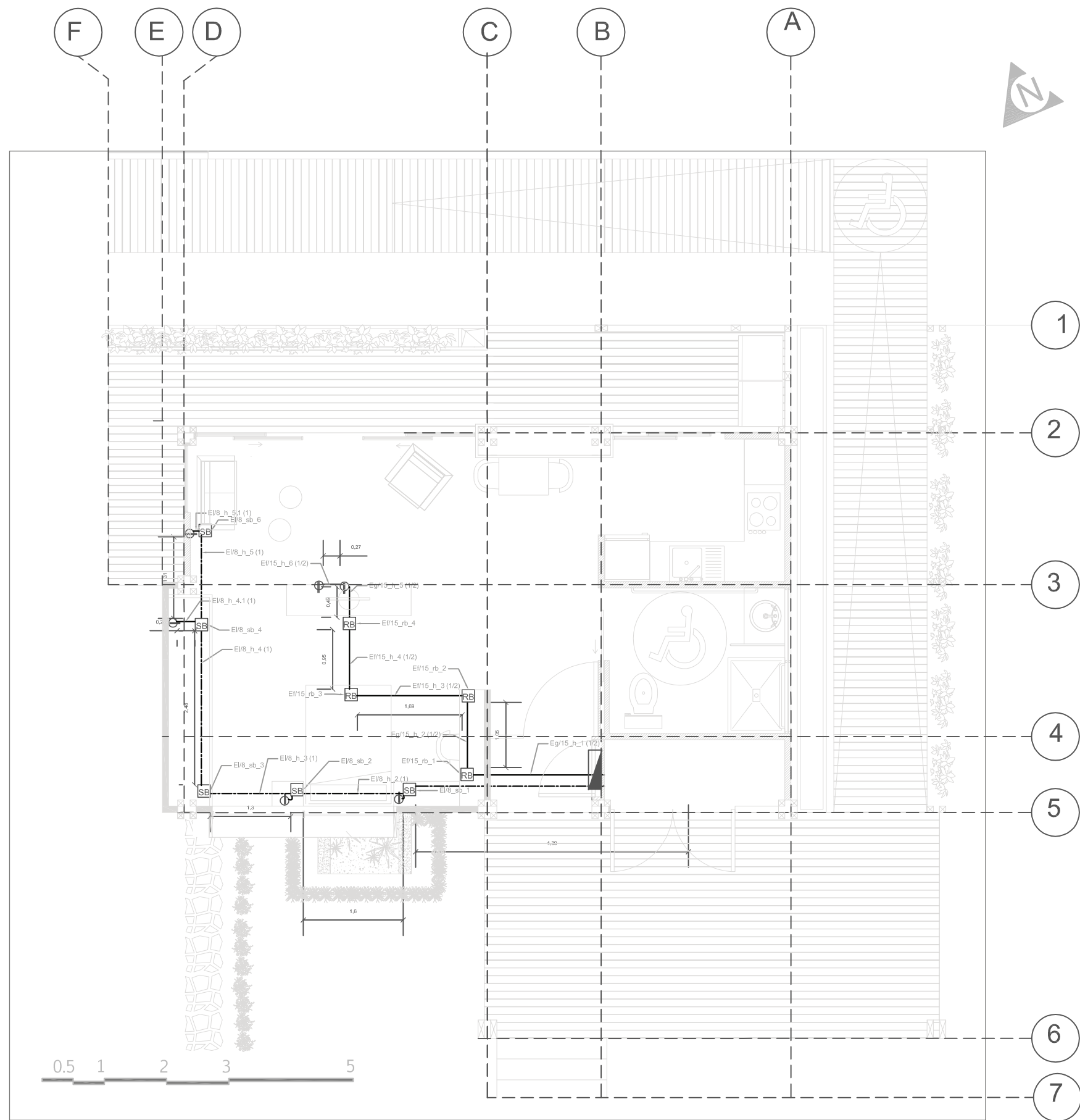
Code: EL-501





Circuit #	Voltage	Demand	Current		Wire Gauge 3 THHN #	Wire length (m)	Voltage Drop %	Breaker		Duct mm	Description
	(V)		L1 (A)	L2 (A)				Pol/A	Type		
EL/1	240	11069	46,1	46,1	8	2	0,37	2/50	AFCI	19	EF Box
EL/2	120	600	9,0		12	3	0,27	1/15	GFCI	13	Booster
EL/3	120	196,3	1,6		12	8	0,13	1/15	GFCI	13	Small pumps
EL/4	240	150,0	0,6		12	2	0,01	2/15	GFCI	13	Hot Water Tank
EL/5	120	400	4,2		12	3	0,13	1/15	GFCI	13	Water pump
EL/6	120	800		6,7	12	3	0,20	1/15	GFCI	13	Dehumidifier
EL/7	120	600		9,0	12	8	0,73	1/15	GFCI	13	Evaporative Cooler

Detail of protections distribution box PB-EF													
Circuit	Outlets	Voltage	Demand/ Outlet	Demand	Current		Wire length (m)	Voltage Drop %	Breaker		Duct mm	Description	Wire diameter (mm2)
	(n)	(V)	(VA)		L1 (A)	L2 (A)			Pol/A	Type			
EF/1	3	120	43,3	130	1,1		13	0,14	1/15	AFCI	13	Electronics	3,31
EF/2	1	120	1100,0	1100	9,2		10	0,92	1/15	GFCI	13	Microwave oven	3,31
EF/3	1	240	3100,0	3100	12,9	12,9	10	0,82	2/20	GFCI	19	Kitchen hob: Summit SINC2220	5,26
EF/4	1	240	2350,0	2350	9,8	9,8	10	0,99	2/15	GFCI	13	Oven: Bosch HBN42S350E	3,31
EF/5	2	120	500,0	1000	8,3		12	1,01	1/15	GFCI	13	Kitchen appliances	3,31
EF/6	1	120	120,0	120	1,3		14	0,18	1/15	GFCI	13	Refrigerator: Samsung RT32FARLDS	3,31
EF/7	1	120	1100,0	1100	11,5		5	0,58	1/15	GFCI	13	Washing machine: Frigidaire FFFS5	3,31
EF/8	1	120	120,0	120,0	1,3		8	0,10	1/15	GFCI	13	Receptacles: bathroom	3,31
EF/9	3	120	80,0	240,0		2,5	16	0,40	1/15	GFCI	13	Receptacles: Flexible area + Terrac	3,31
EF/10	8	120	6	48		0,4	5	0,02	1/15	AFCI	13	Lighting in bedroom and flexible ar	3,31
EF/11	7	120	6,4	45		0,4	10	0,04	1/15	AFCI	13	Lighting in kitchen and corridor	3,31
EF/12	7	120	7,9	55,5		0,5	14	0,07	1/15	AFCI	13	Lighting in bathroom, kitchen forni	3,31
EF/13	6	120	4,5	27		0,2	16	0,04	1/15	AFCI	13	Lighting in lobby and green tunnel	3,31
EF/14	7	120	3,1	22		0,2	12	0,02	1/15	AFCI	13	Lighting in terrace, bathroom mirrc	3,31
EF/15	5	120	5	25		0,2	10	0,02	1/15	AFCI	13	Lighting in main door and closet	3,31
EF/16	1	120	1400,0	1400		14,6	10	0,92	1/15	GFCI	13	Dischwasher: Bosch SHX4AP05UC	5,26
EF/17	1	120	750,0	750		7,8	5	0,39	1/15	GFCI	13	Clothes Dryer: FFSG5115P A / W	3,31
EF/18	1	240	300,0	500	4,2	4,2	3	0,13	2/15	AFCI	13	Home Automation: KNX	3,31
EF/19	1	120	250,0	250,0		2,6	5	0,13	1/15	GFCI	13	Receptacles: Electrical/mechanical	3,31
EF/20	4	120	60,0	240,0		2,5	12	0,30	1/15	AFCI	13	Receptacles in bedroom, general u	3,31
EF/21	1	120	50,0	50,0		0,4	8	0,03	1/15	GFCI	13	Receptacles: Exhibition, lobby area	3,31



ELECTRIC LEGENDS	
	NEMA 5-20 120V HORIZONTALLY INTEGRALLY SWITCHED DOUBLE SOCKET
	NEMA 5-20 120V HORIZONTALLY INTEGRALLY SWITCHED SIMPLE SOCKET
	240V HORIZONTALLY INTEGRALLY SWITCHED SIMPLE SOCKET
WP	WATER PROOF
Keys Notes	
1. 240V circuits. Channeling metal conduit Ø19,05mm	
2. 120V circuits. Channeling metal conduit Ø12,7mm	



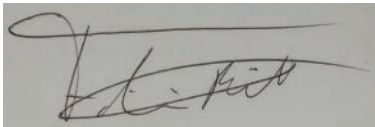
Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Eng. Fabricio Bonilla Pacheco  
Professional ID: MI-25961

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Engineering

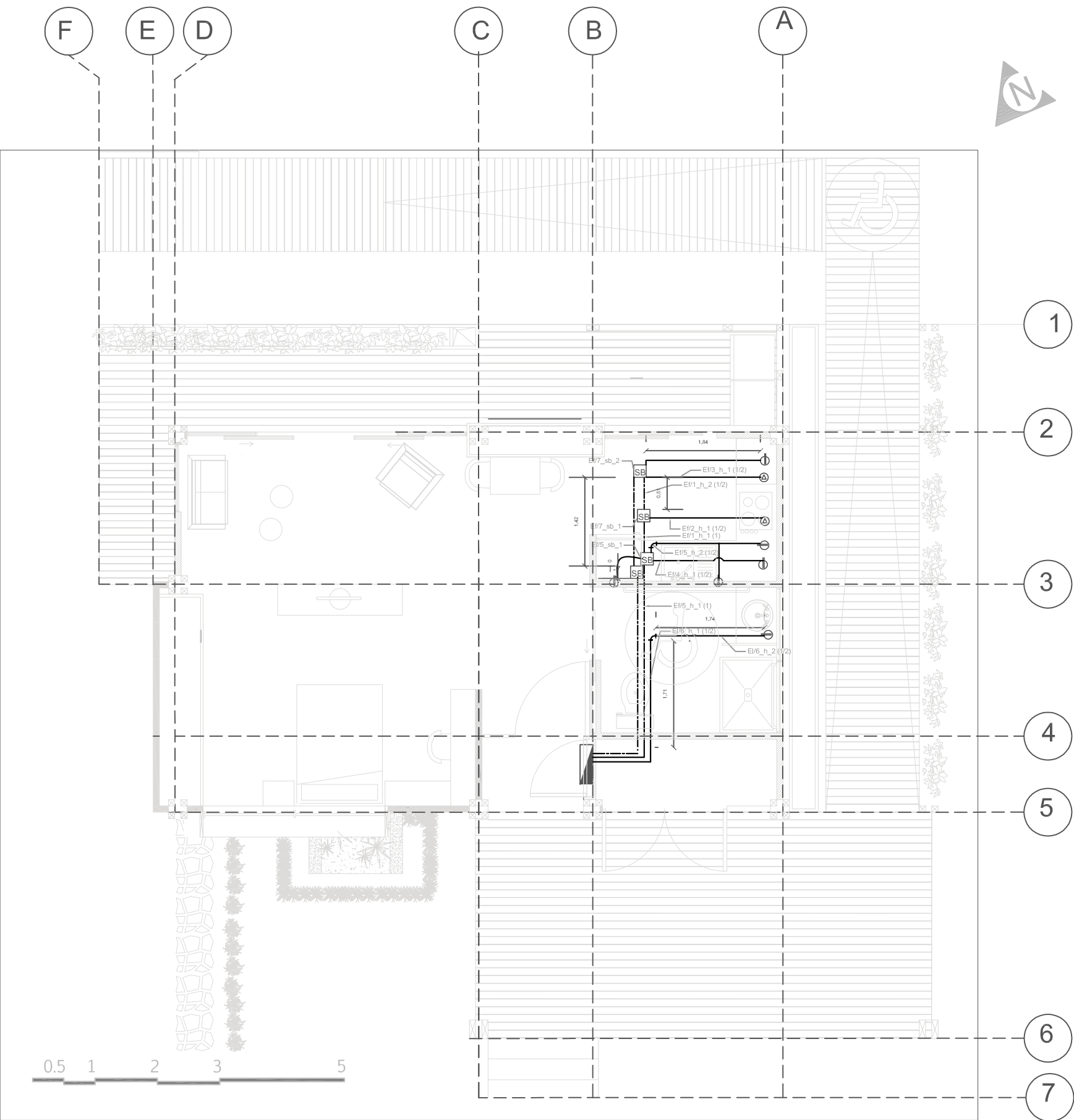
Sheet title  
AC Layout

Content: Flexible Area Layout

Scale: 1:75      Date: 03/11/2014

Code: EL-601





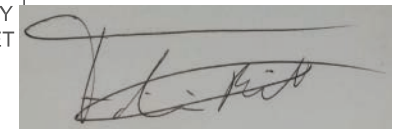
Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



Eng. Fabricio Bonilla Pacheco  
Professional ID: MI-25961

ELECTRIC LEGENDS

- ⊖ NEMA 5-20 120V HORIZONTALLY INTEGRALLY SWITCHED DOUBLE SOCKET
- ⊖ NEMA 5-20 120V HORIZONTALLY INTEGRALLY SWITCHED SIMPLE SOCKET
- ⊖ 240V HORIZONTALLY INTEGRALLY SWITCHED SIMPLE SOCKET
- ▬ GENERAL PANEL
- SB CONDUIT SQUARE BOX
- OB CONDUIT OCTOGONAL BOX
- 240V CIRCUITS

Keys Notes

- 120V circuits. Channeling metal conduit Ø12,7mm
- 120V routes transport three conductors (L1,N,G) AWG 12 (3,31mm<sup>2</sup>)
- 240V circuits. Channeling metal conduit Ø19,05mm
- 240V routes transport four conductors (L1,N,L2,G) Detail in plan EL-302

Made by: Department of Engineering

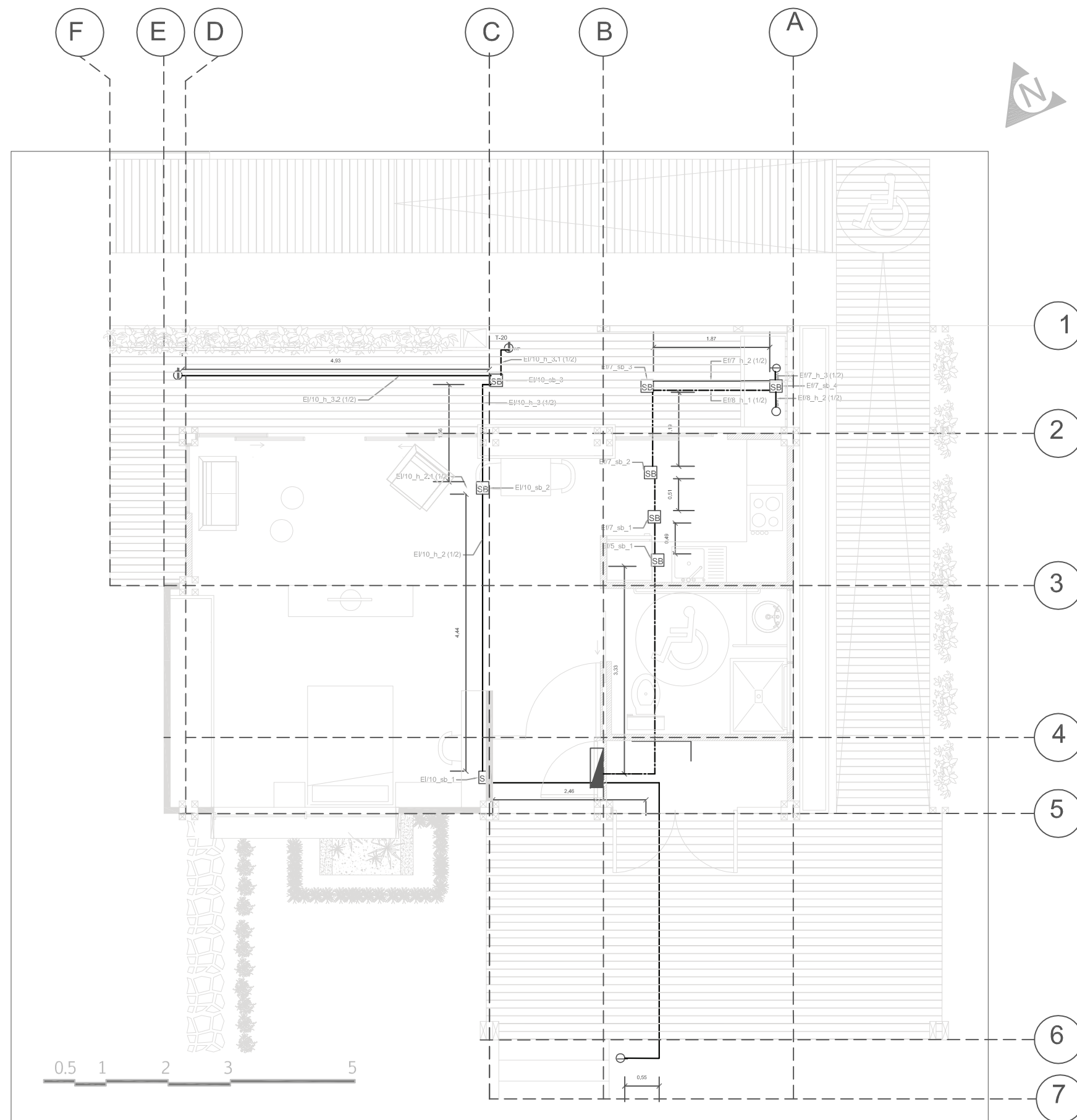
Sheet title

AC Layout

Content: Bathroom and Kitchen Layout

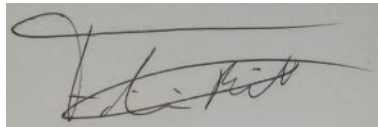
Scale: 1:75 Date: 03/11/2014

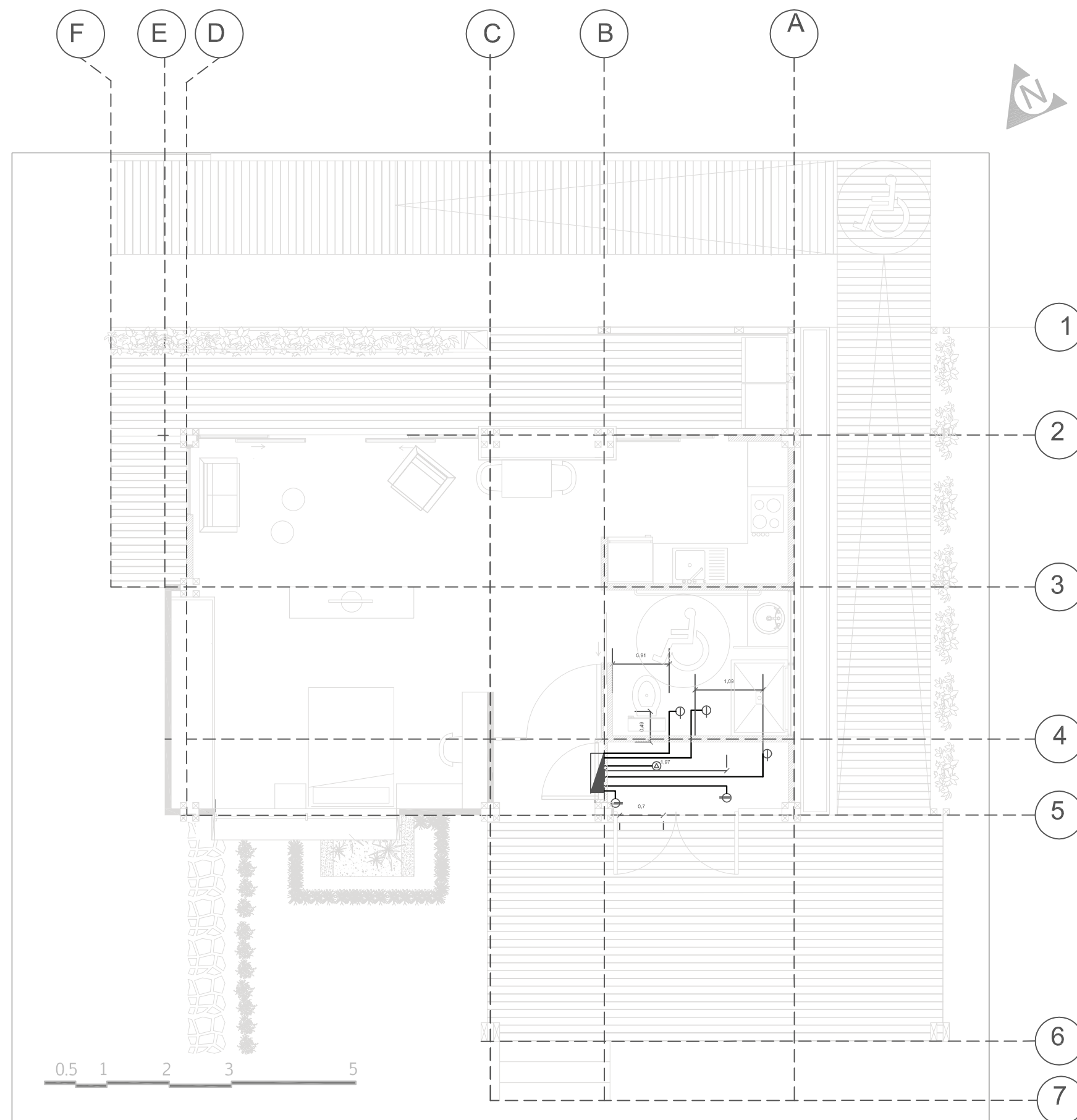
Code: EL-602



ELECTRIC LEGENDS	
	NEMA 5-20 120V HORIZONTALLY INTEGRALLY SWITCHED DOUBLE SOCKET
	NEMA 5-20 120V HORIZONTALLY INTEGRALLY SWITCHED SIMPLE SOCKET
	240V HORIZONTALLY INTEGRALLY SWITCHED SIMPLE SOCKET
	GENERAL PANEL
	CONDUIT SQUARE BOX
	CONDUIT OCTOGONAL BOX
Keys Notes	
1. 120V circuits. Channeling metal conduit Ø12,7mm	
2. All the routes transport three conductors (L1,N,G) AWG 12 (3,31mm <sup>2</sup> )	



Deliverable #7 Project Drawings	
Proyect: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:  Eng. Fabricio Bonilla Pacheco Professional ID: MI-25961	
Made by: Department of Engineering	
Sheet title AC Layout	
Content: External Sockets	
Scale: 1:75	Date: 03/11/2014
Code: EL-603	



ELECTRIC LEGENDS	
	NEMA 5-20 120V HORIZONTALLY INTEGRALLY SWITCHED DOUBLE SOCKET
	NEMA 5-20 120V HORIZONTALLY INTEGRALLY SWITCHED SIMPLE SOCKET
	240V HORIZONTALLY INTEGRALLY SWITCHED SIMPLE SOCKET
	GENERAL PANEL
	CONDUIT SQUARE BOX
	CONDUIT OCTOGONAL BOX
Keys Notes	
1. 120V circuits. Channeling metal conduit Ø12,7mm	
2. All the routes transport three conductors (L1,N,G) AWG 12 (3,31mm <sup>2</sup> )	



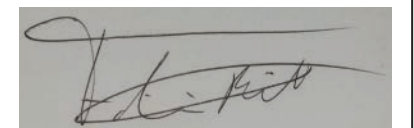
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Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



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Sheet title

AC Layout

Content: Machine Room

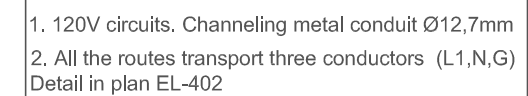
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Date: 03/11/2014

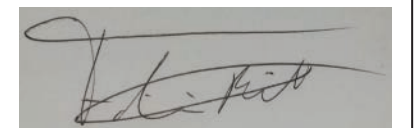
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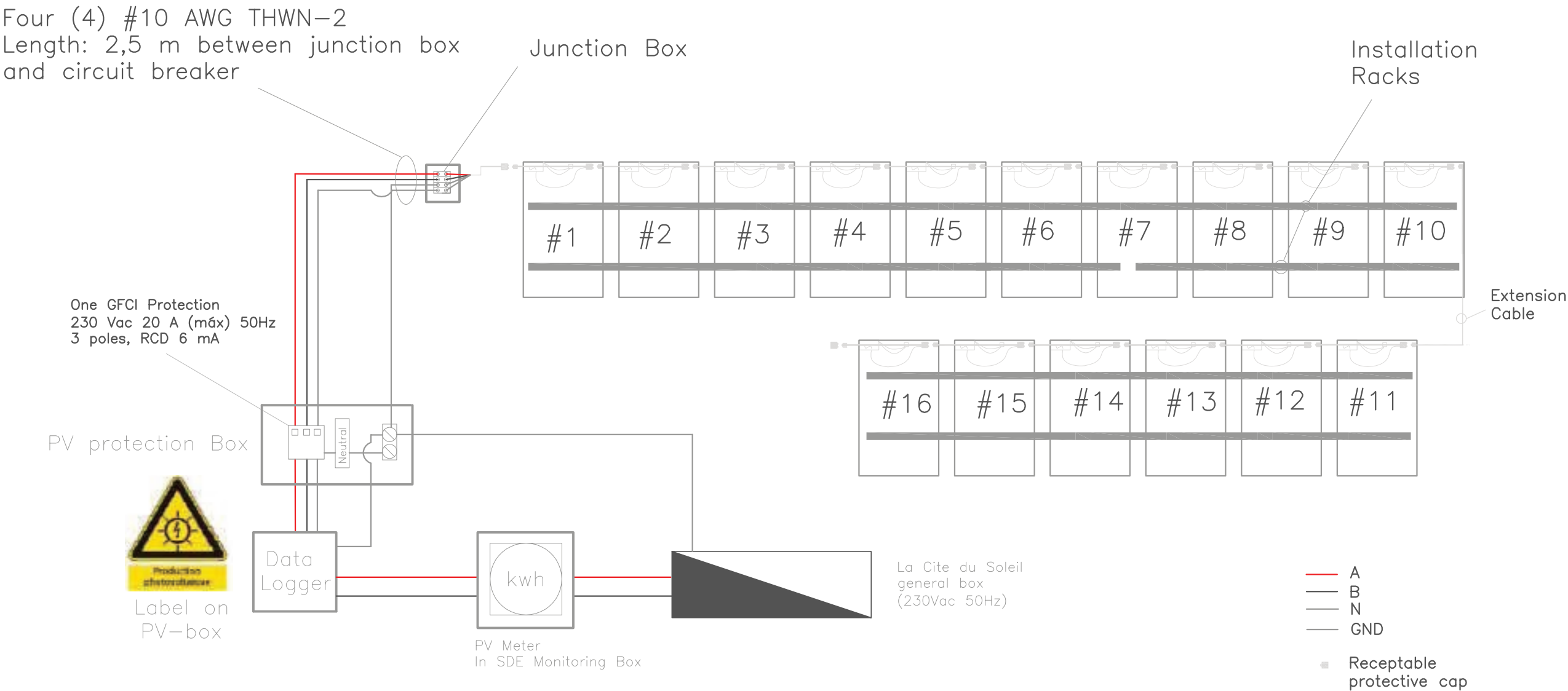
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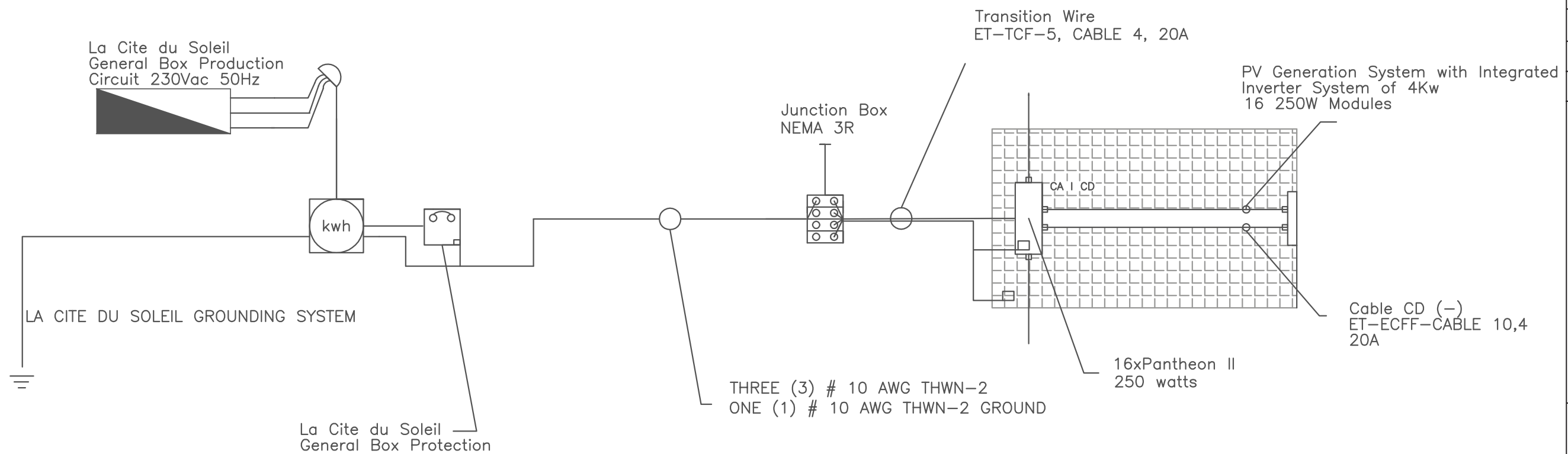


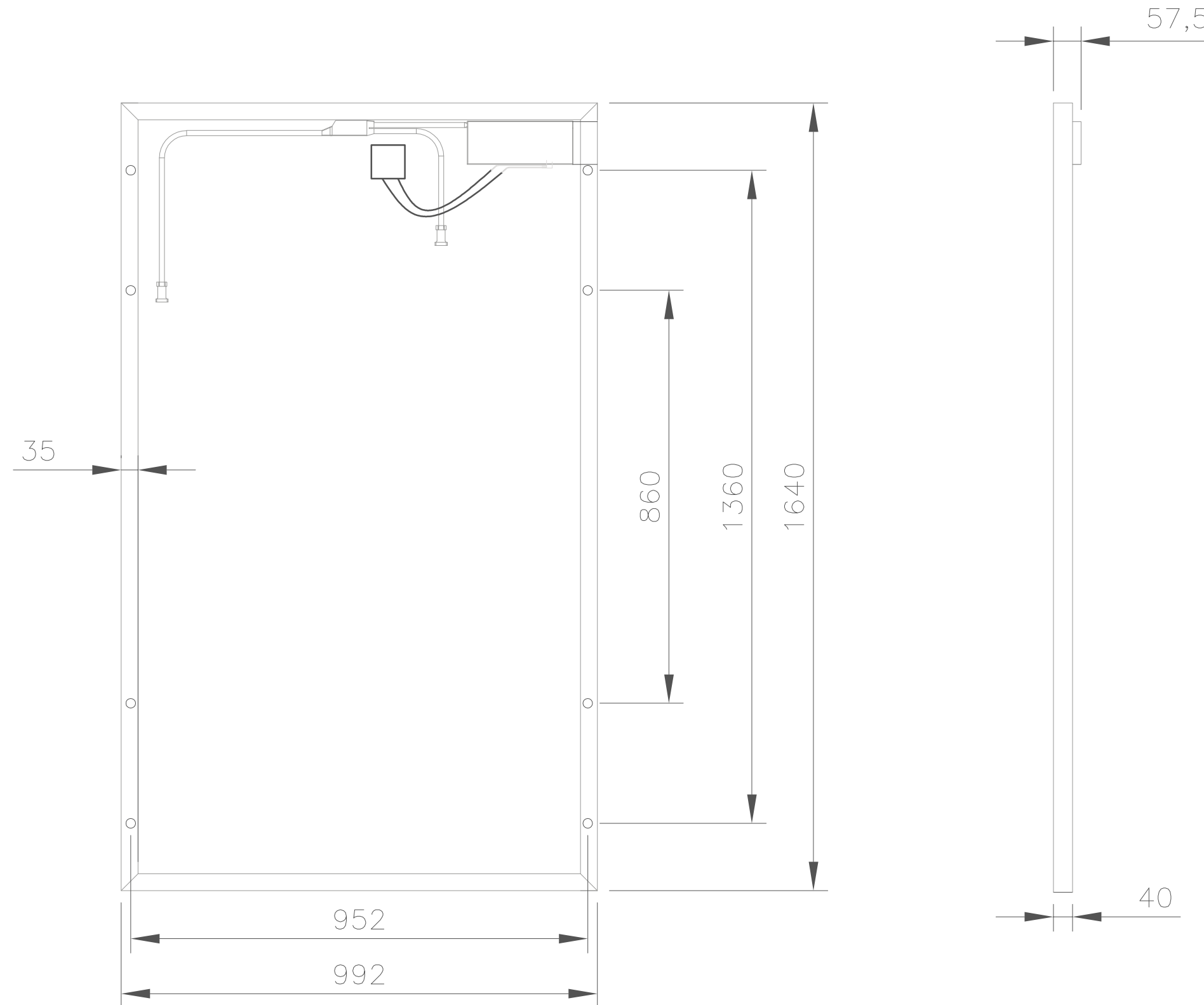




Eng. Fabricio Bonilla Pacheco  
Professional ID: MI-25961







Dimension in millimeters



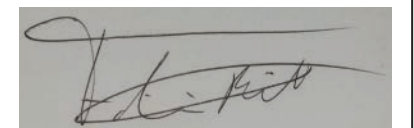
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Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

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Sheet title

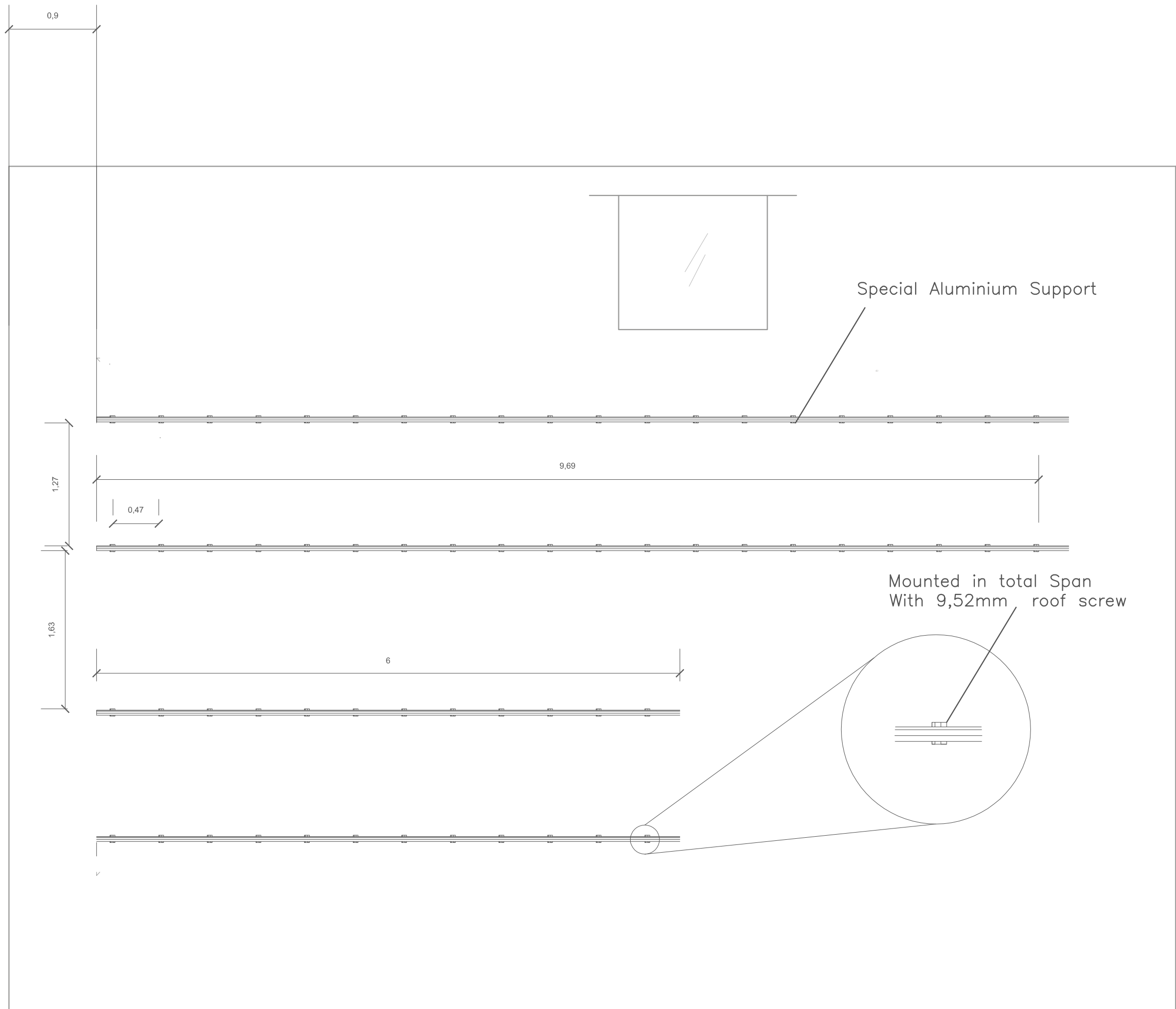
Photovoltaic System:  
General

Content: PV Panel Dimensions

Scale: 1:10

Date: 03/11/2014

Code: PV-003



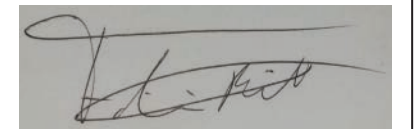
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Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



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Sheet title

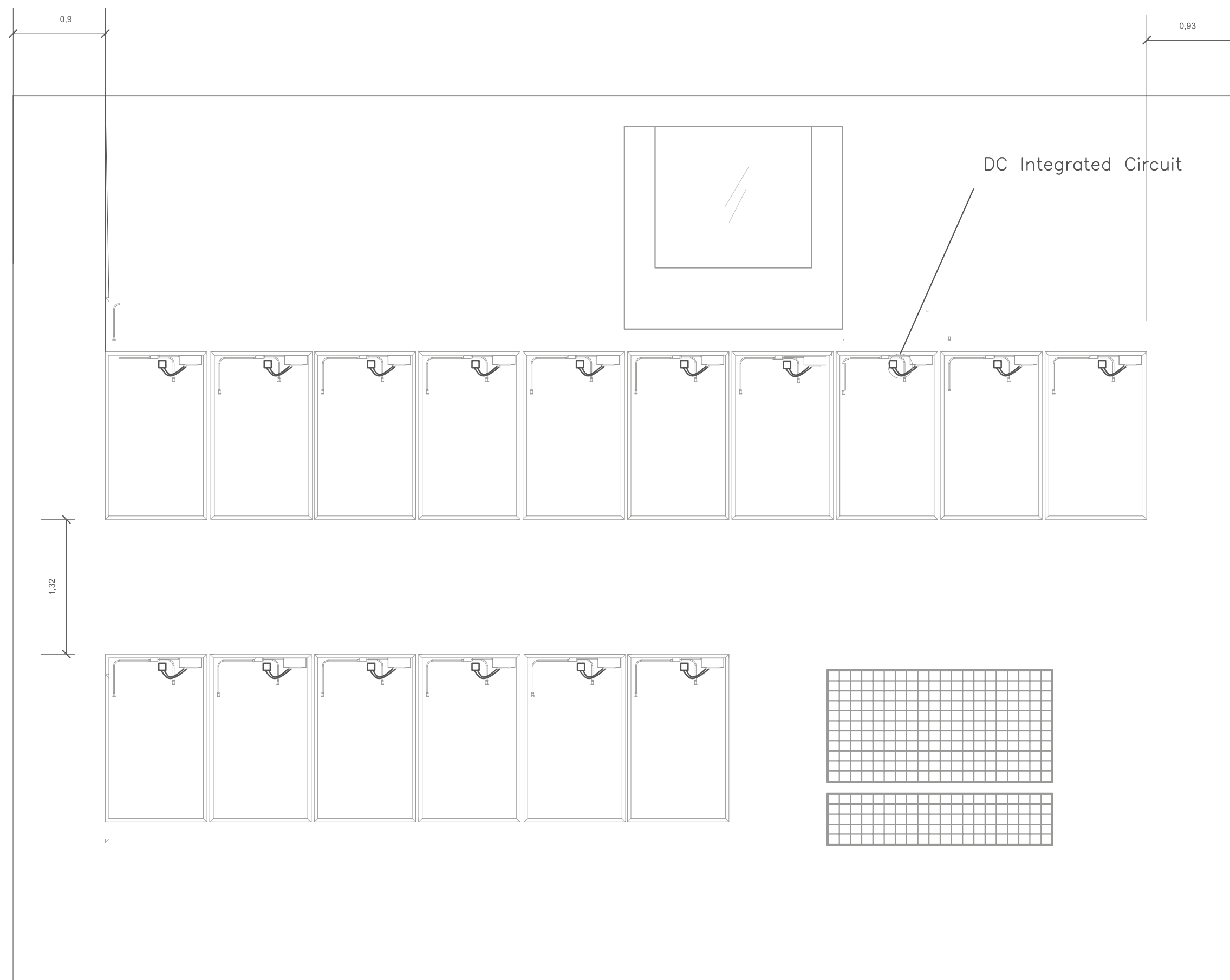
Photovoltaic System:  
General

Content: PV Panel Mounting  
Structure

Scale: 1:50 Date: 03/11/2014

Code: PV-004





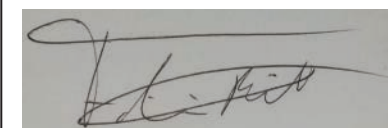
Deliverable #7  
Project Drawings

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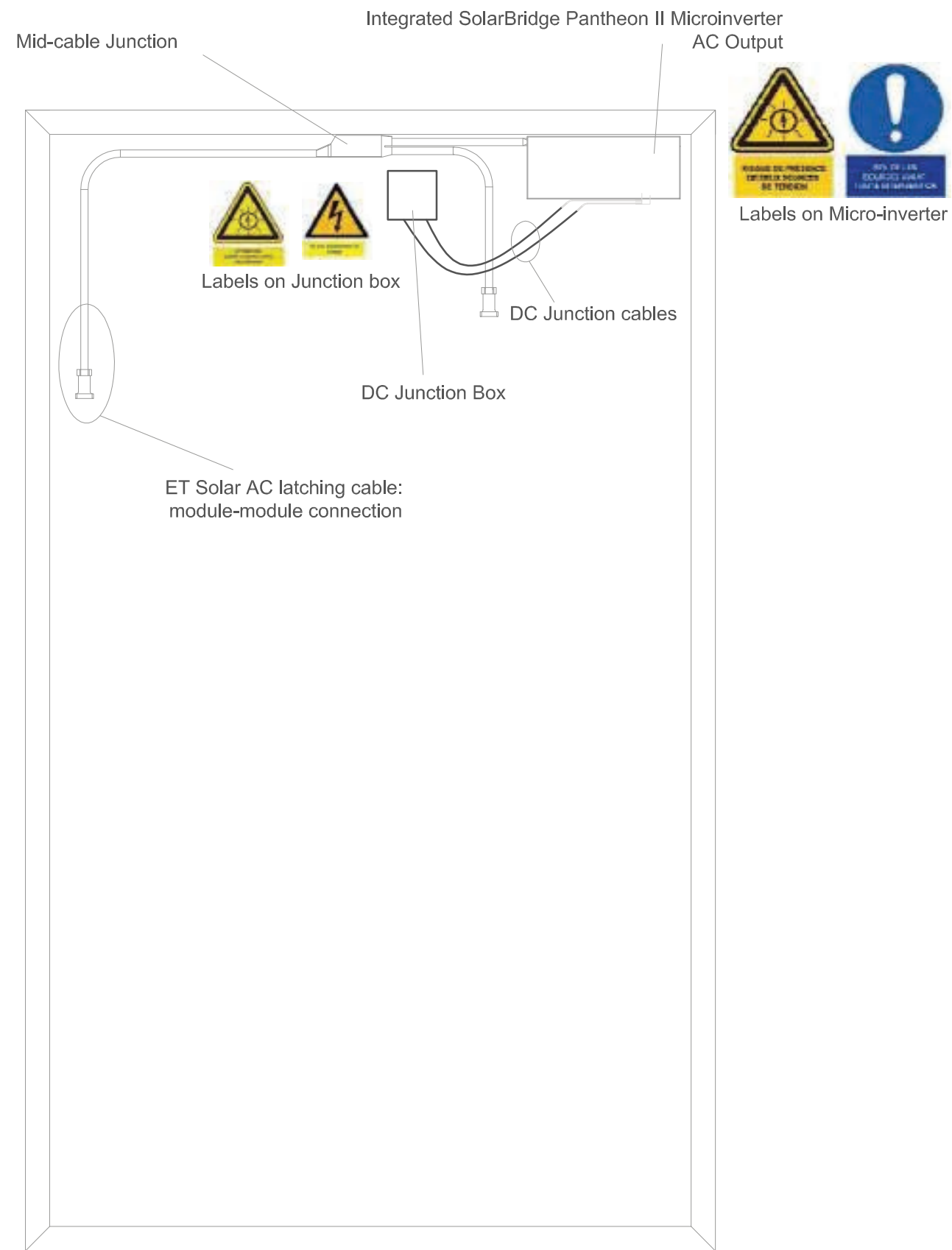
Sheet title

Photovoltaic System:  
DC Circuits

Content: System DC Circuit

Scale: 1:50 Date: 03/11/2014

Code: PV-011



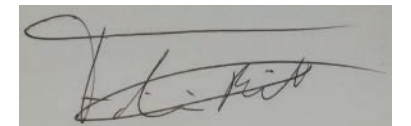
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Project Drawings

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Sheet title

Photovoltaic Systems:  
DC Circuits

Content: PV Panel DC Circuits

Scale: 1:10

Date:  
03/11/2014

Code: **PV-012**

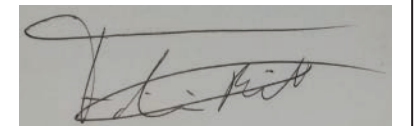
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Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



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Sheet title

Photovoltaic System  
AC Circuit

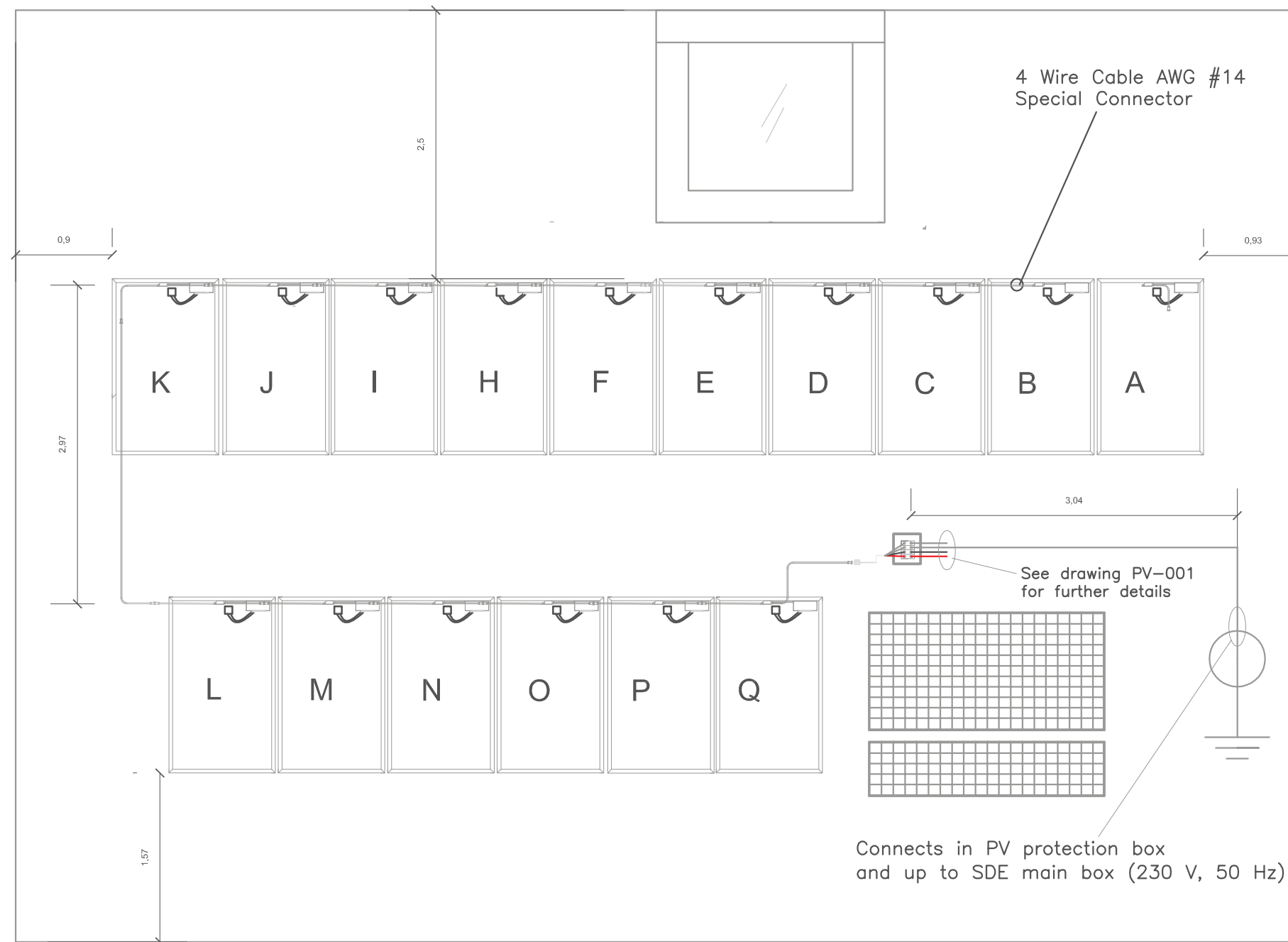
Content: AC circuit

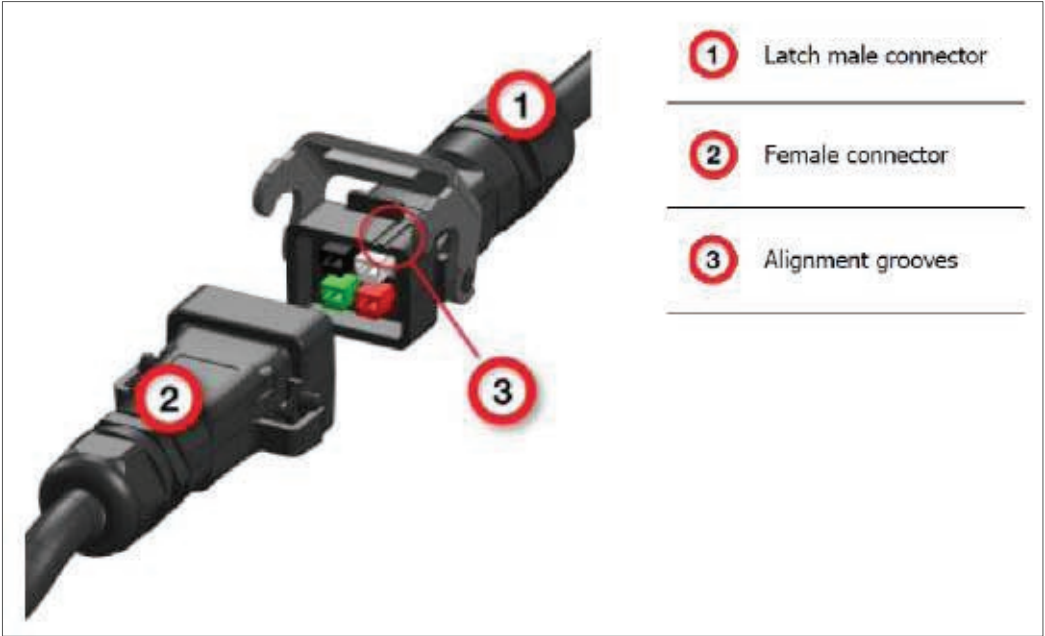
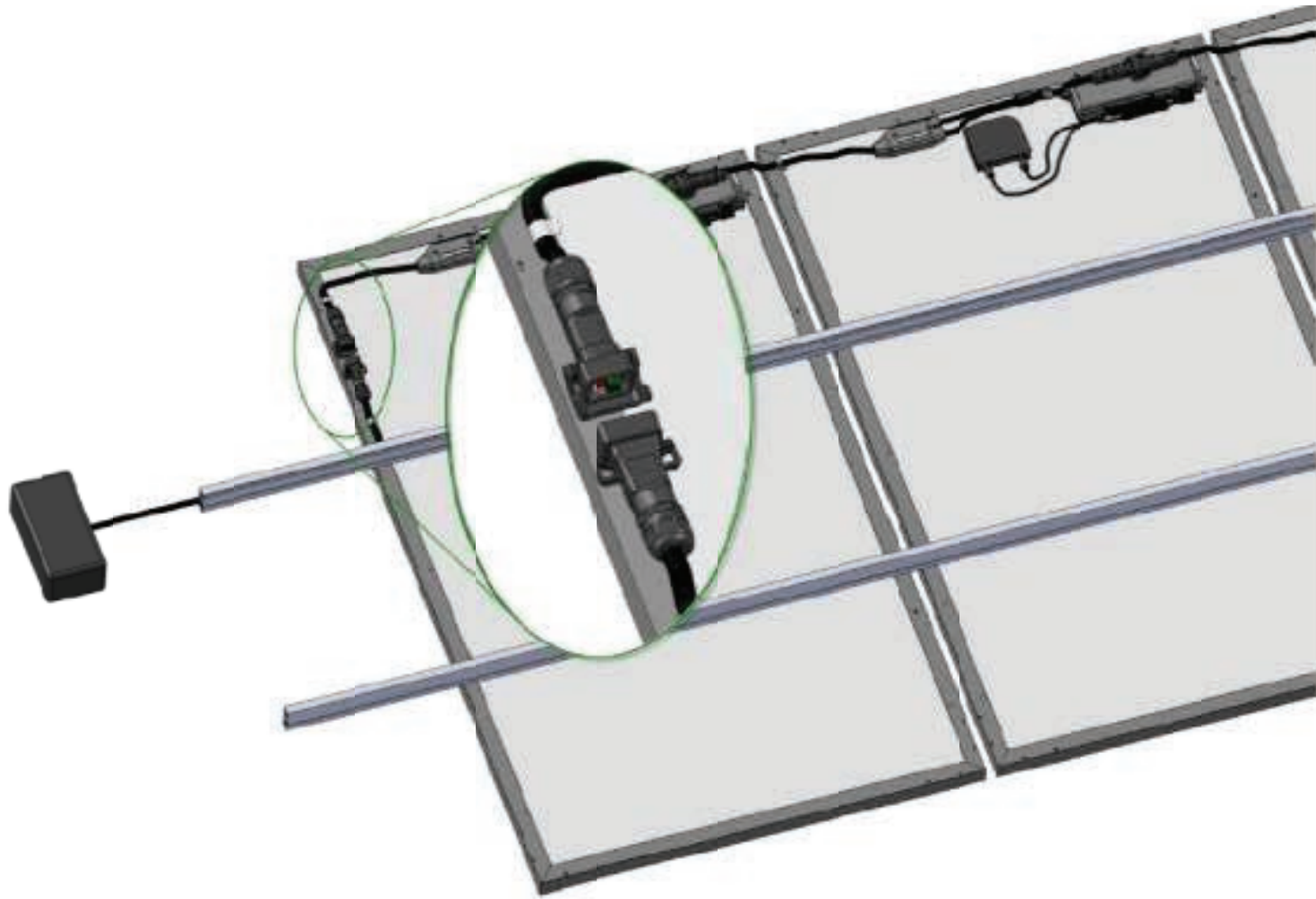
Scale: 1:50 Date: 03/11/2014

Code: PV-021

PANEL CONNECTION SCHEDULE

Position															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	





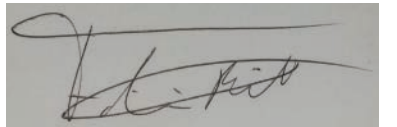
Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



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Sheet title  
Photovoltaic System:  
AC Circuit

Content: AC Details Conectors

Scale: 1:100 Date: 03/11/2014

Code: PV-022



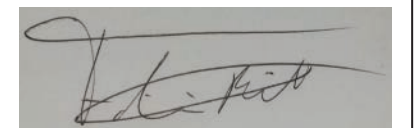
Deliverable #7  
Project Drawings

Project: Trópika

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Sheet title  
PV Groundig System

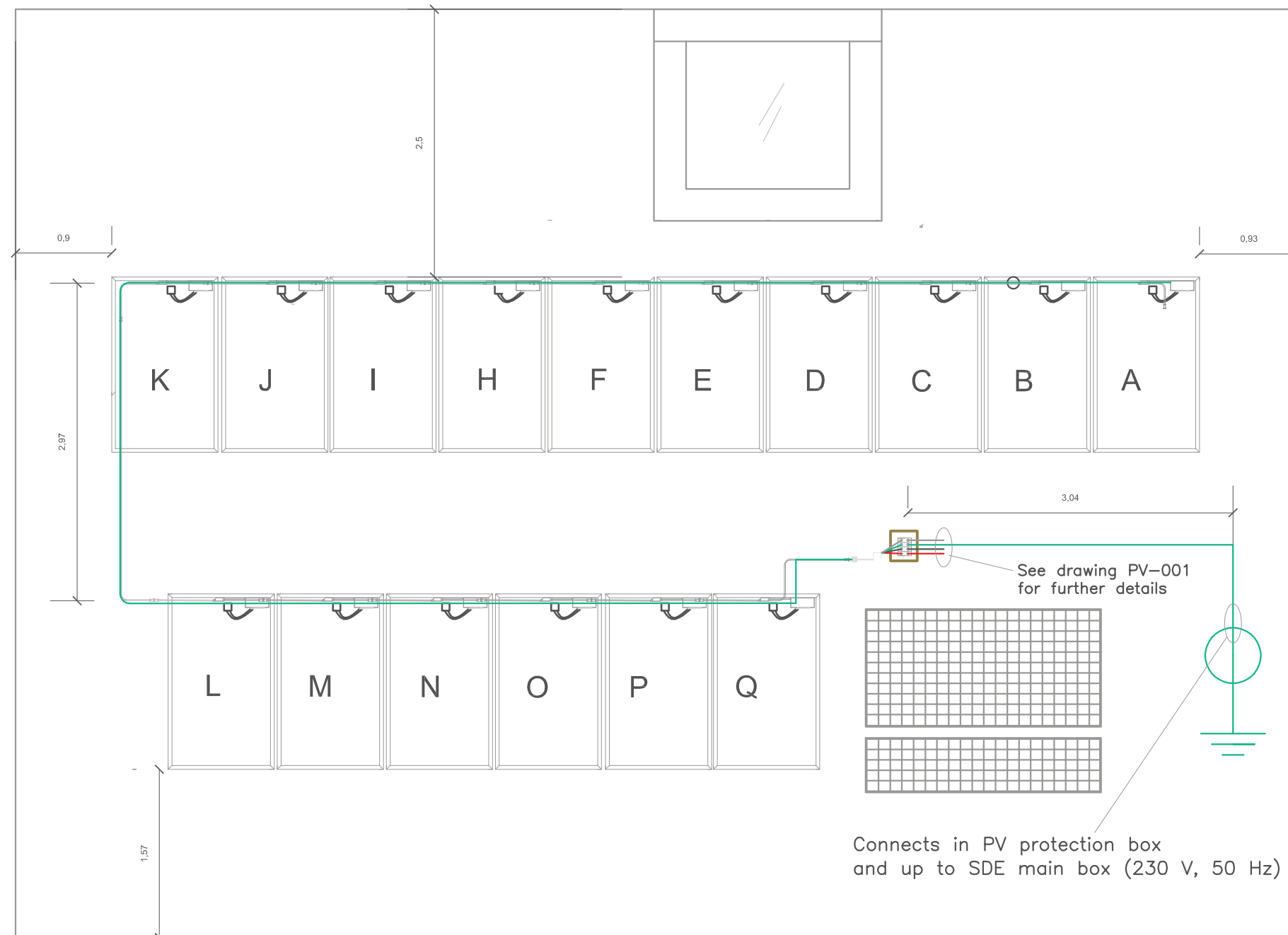
Content: PV Grounding  
Diagram

Scale: 1:50      Date: 03/11/2014

Code: PV-031

PANEL CONNECTION SCHEDULE

Position															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	



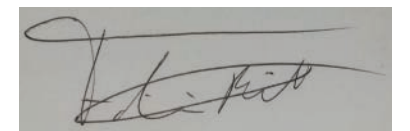
Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:



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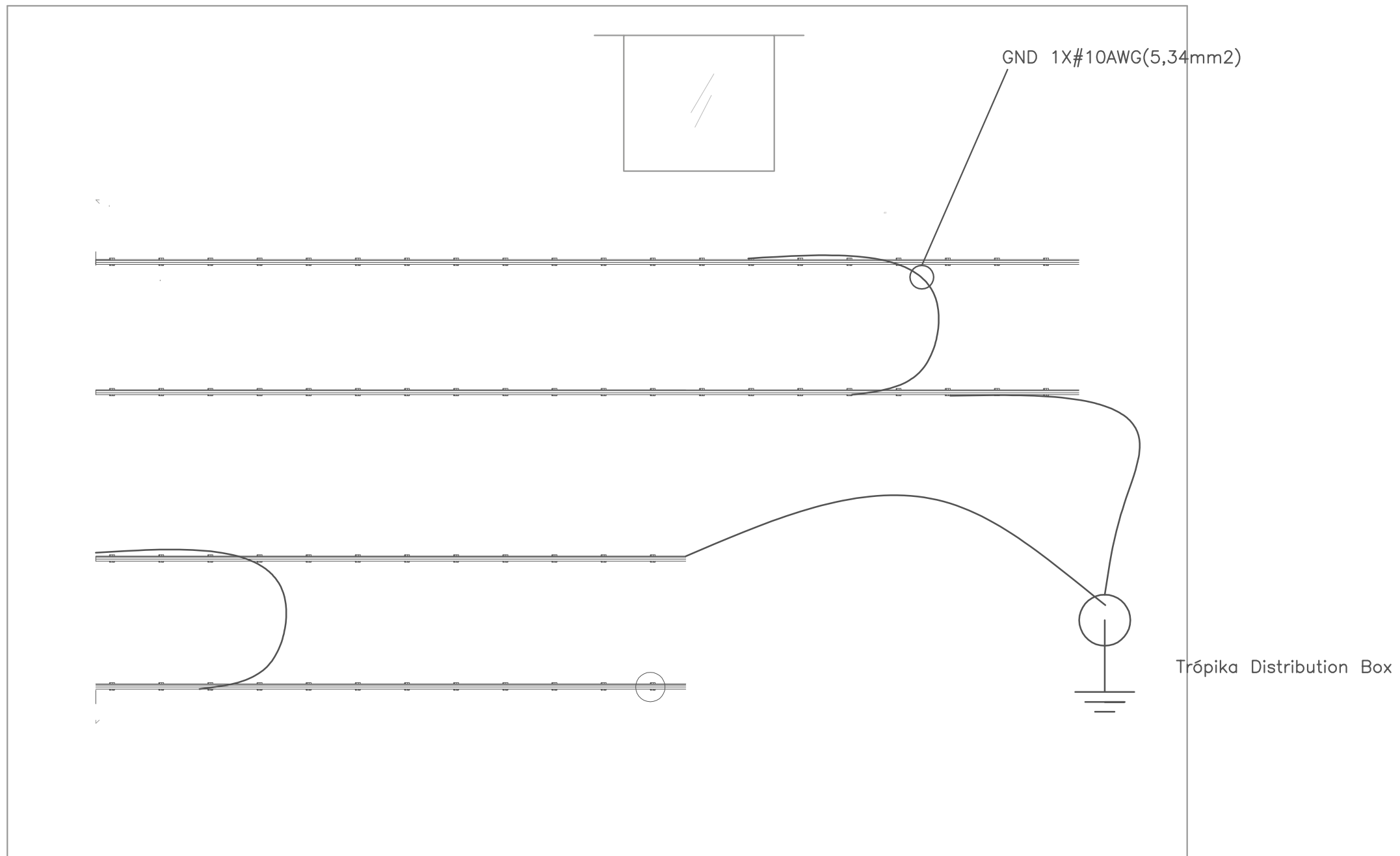
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Sheet title  
PV Grounding System

Content: Structure Grounding  
System

Scale: 1:50      Date: 03/11/2014

Code: PV-032



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Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

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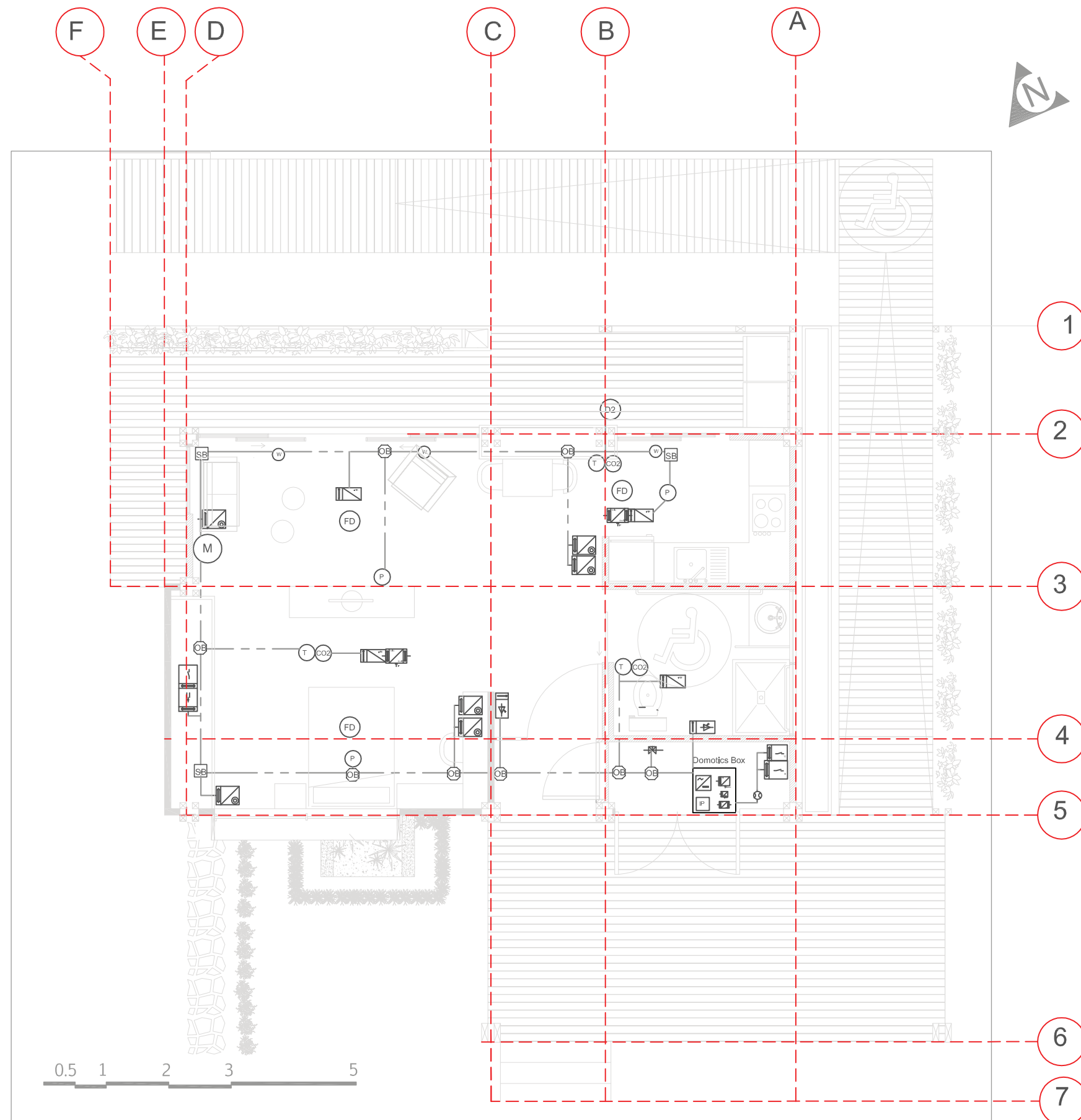
Sheet title

**Wiring Plan**

Content: Wiring Plan Diagram

Scale: 1:75 Date: 03/11/2014

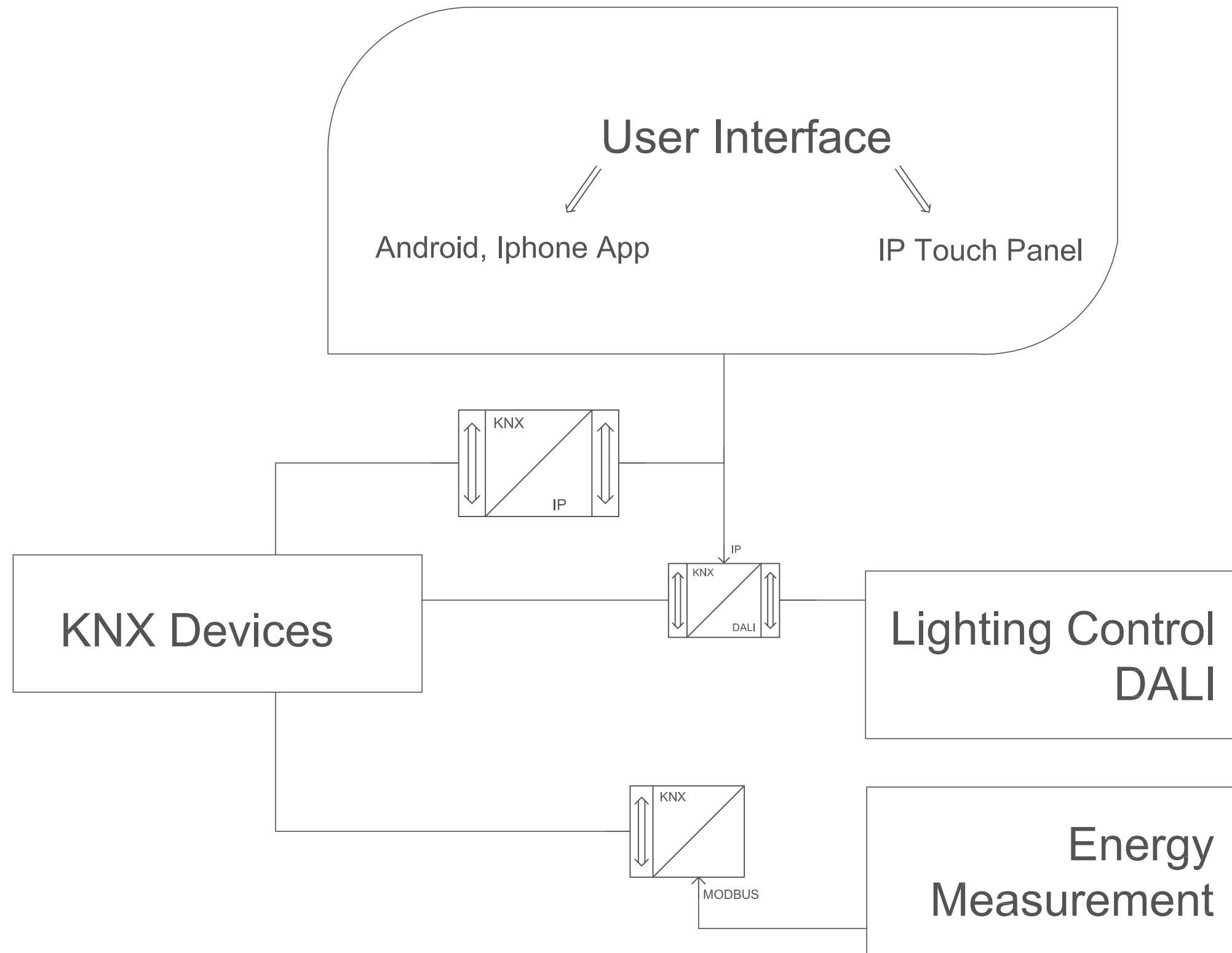
Code: **BAS-001**



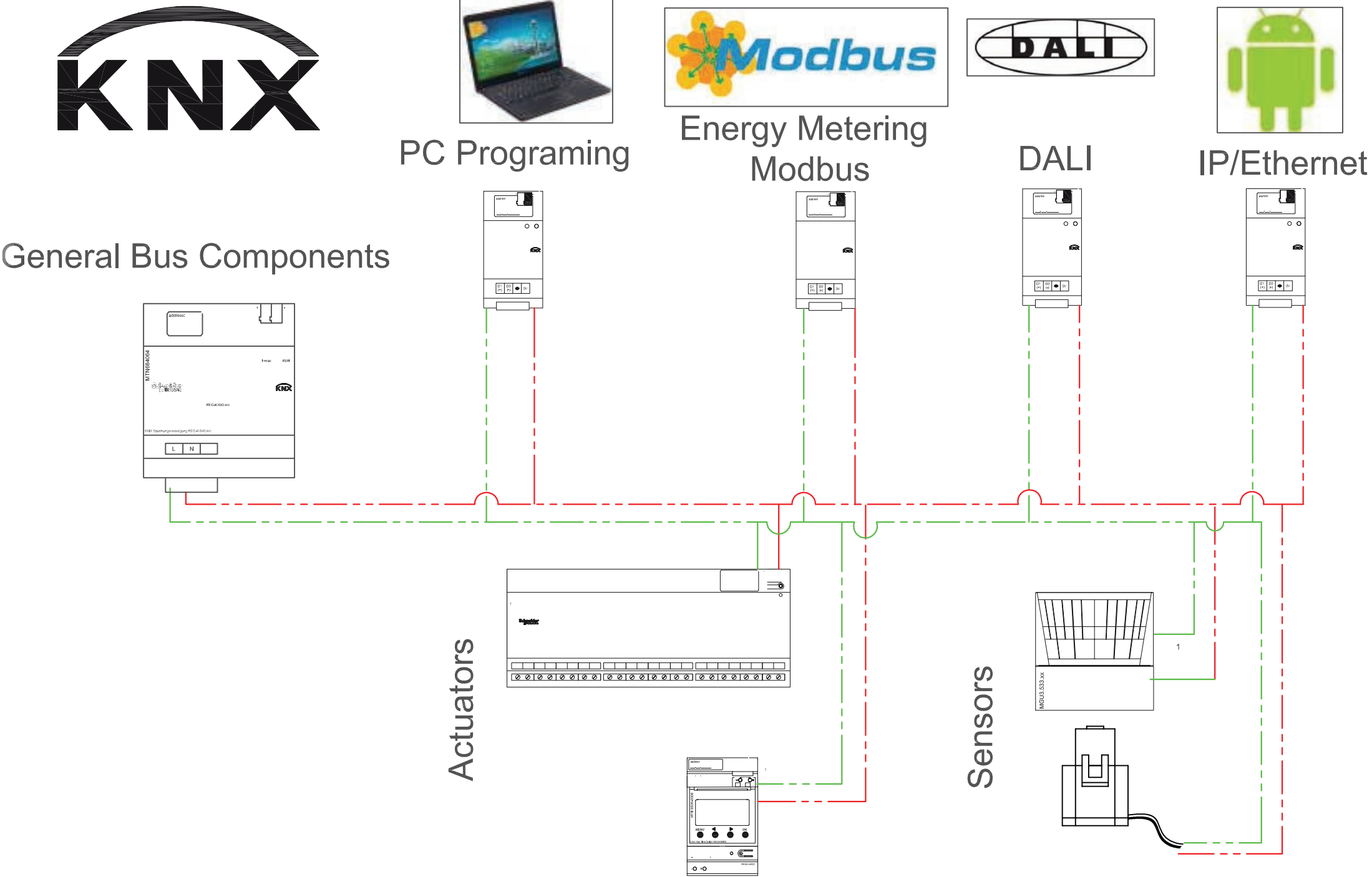
SYMBOL LEGENDS	
	Present Sensor
	Meteorology Station
	Shutter Control
	Fire Detection
	Flux Meter 1"
	Electrovalve
	Temperature Sensor
	CO2 Sensor
	Touch Panel Display
	KNX/USB Interface
	KNX/DALI Interface
	Speaker
	Multimedia Socket
	Load Control 110V
	Load Control 220V
	KNX/Modbus Interface
	Windows Control
	Power Source
	IP ROUTER
	Push button
	Energy Meter
	Square conduit box
	Octagonal conduit box

**Keys Notes**

1. Channeling with metal conduit Ø12,7mm
2. All the wiring are with KNX certificated wire. Except the power lines and audio lines.







**Deliverable #7**  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

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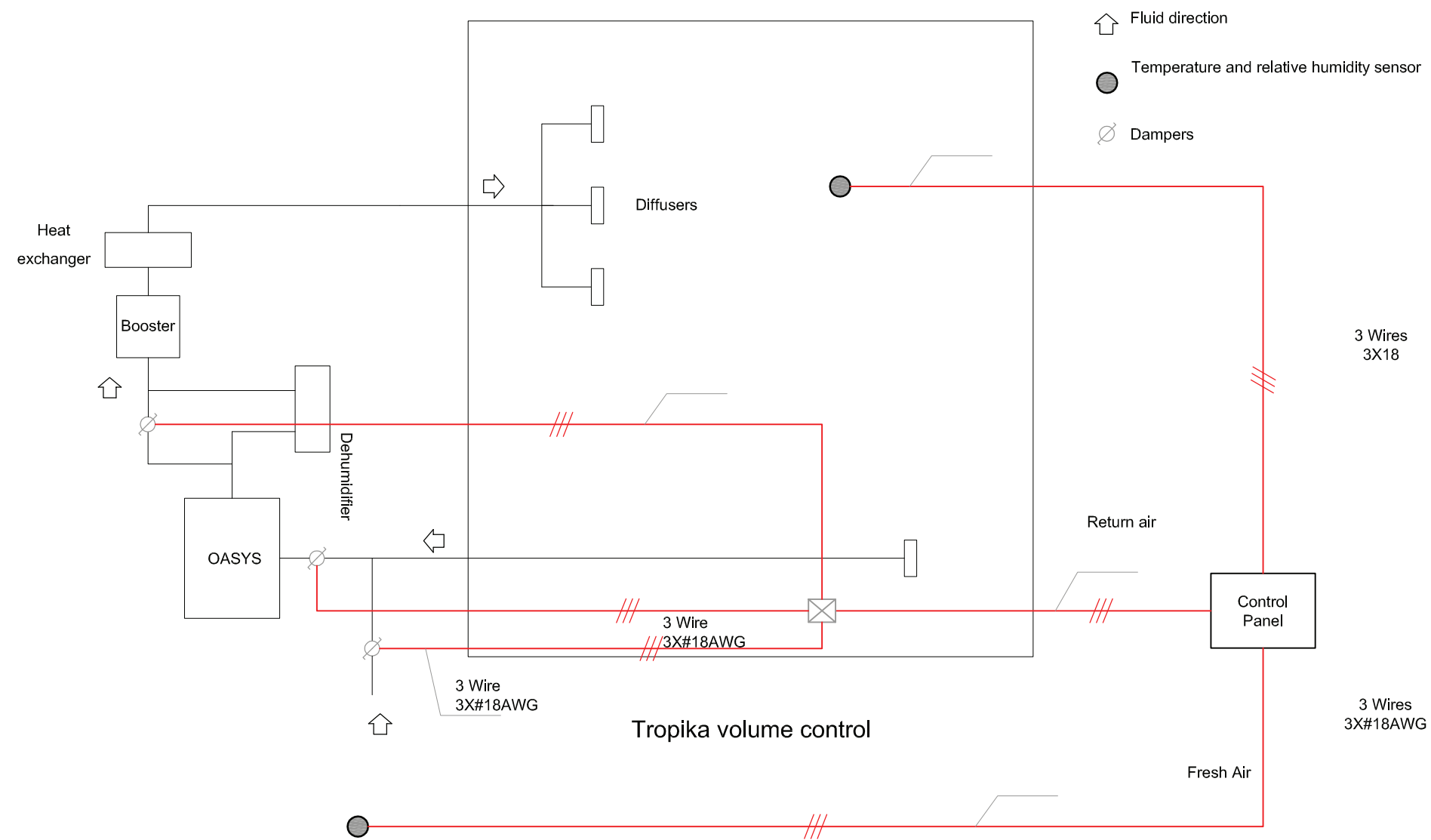
Sheet title

Schematic Diagram

Content: Schematic Diagram  
General HVAC Control

Scale: 1:75 Date: 03/11/2014

Code: **BAS-103**



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Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Instrumentation Contact:  
Hugo Sánchez O.

Made by: Department of  
Engineering

Sheet title

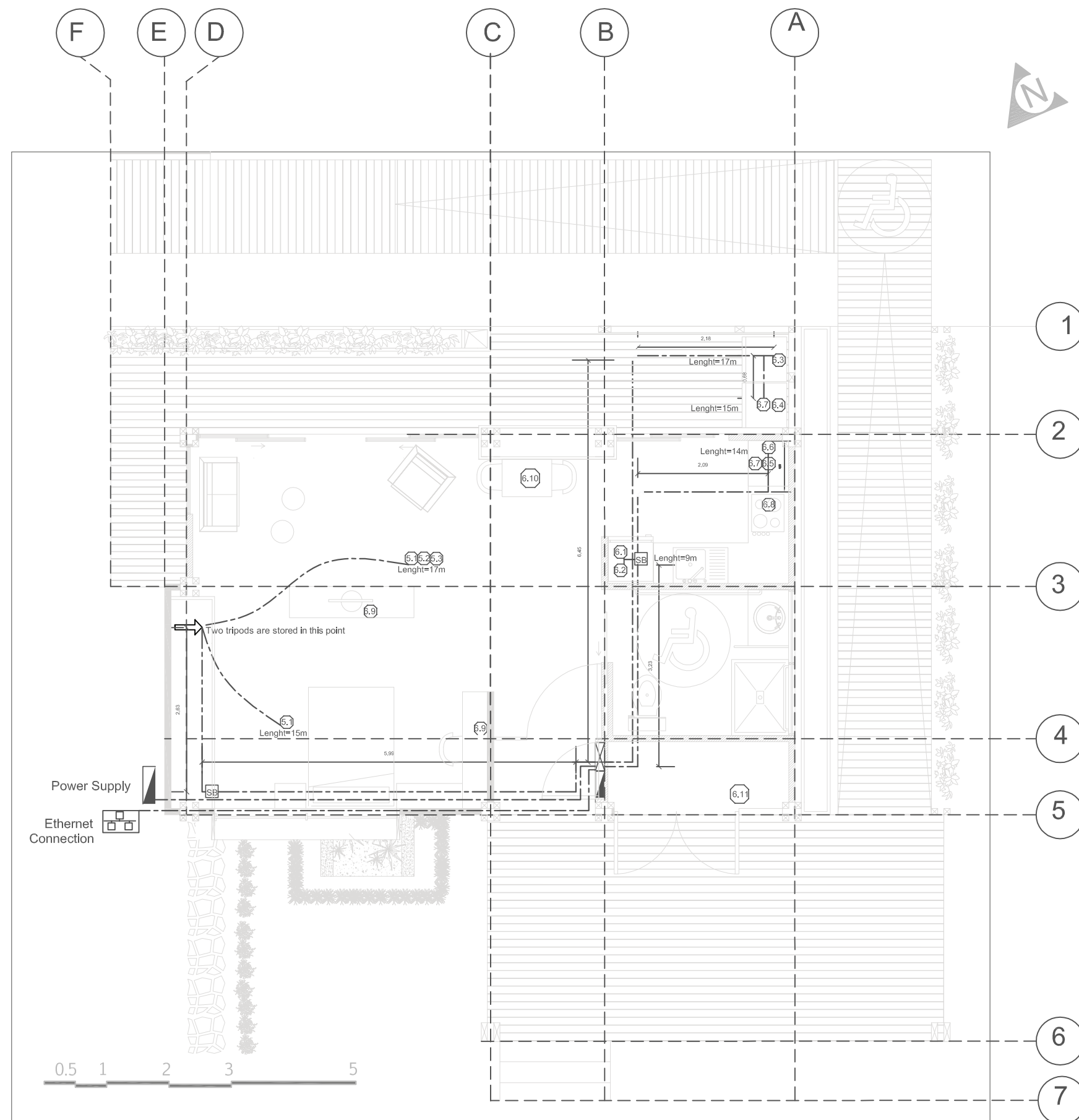
General Monitoring

Content: General Monitoring  
Diagram

Scale: 1:75

Date: 03/11/2014

Code: ID-001



PLAN LEGENDS

- 6.1, 6.2, 6.3 Temperature, humidity and air quality sensor L.17m
- 6.1 Temperature sensor L.16m
- 6.1 Refrigeration L.9m
- 6.2 Freezing L.9m
- 6.3 Clothes Washing.L17m
- 6.4 Clothes Drying. L15m
- 6.5 Dish Washing. 14m
- 6.6 Oven L.14m
- 6.7 Hot Water Draw. No wire
- 6.8 Cooking. No Wire
- 6.9 Home Electronics. No wire
- 6.10 Dinning. No wire
- 6.11 Water Balance. No wire

→ Temporal Tripod Location

▀ Trópika Electrical Panel

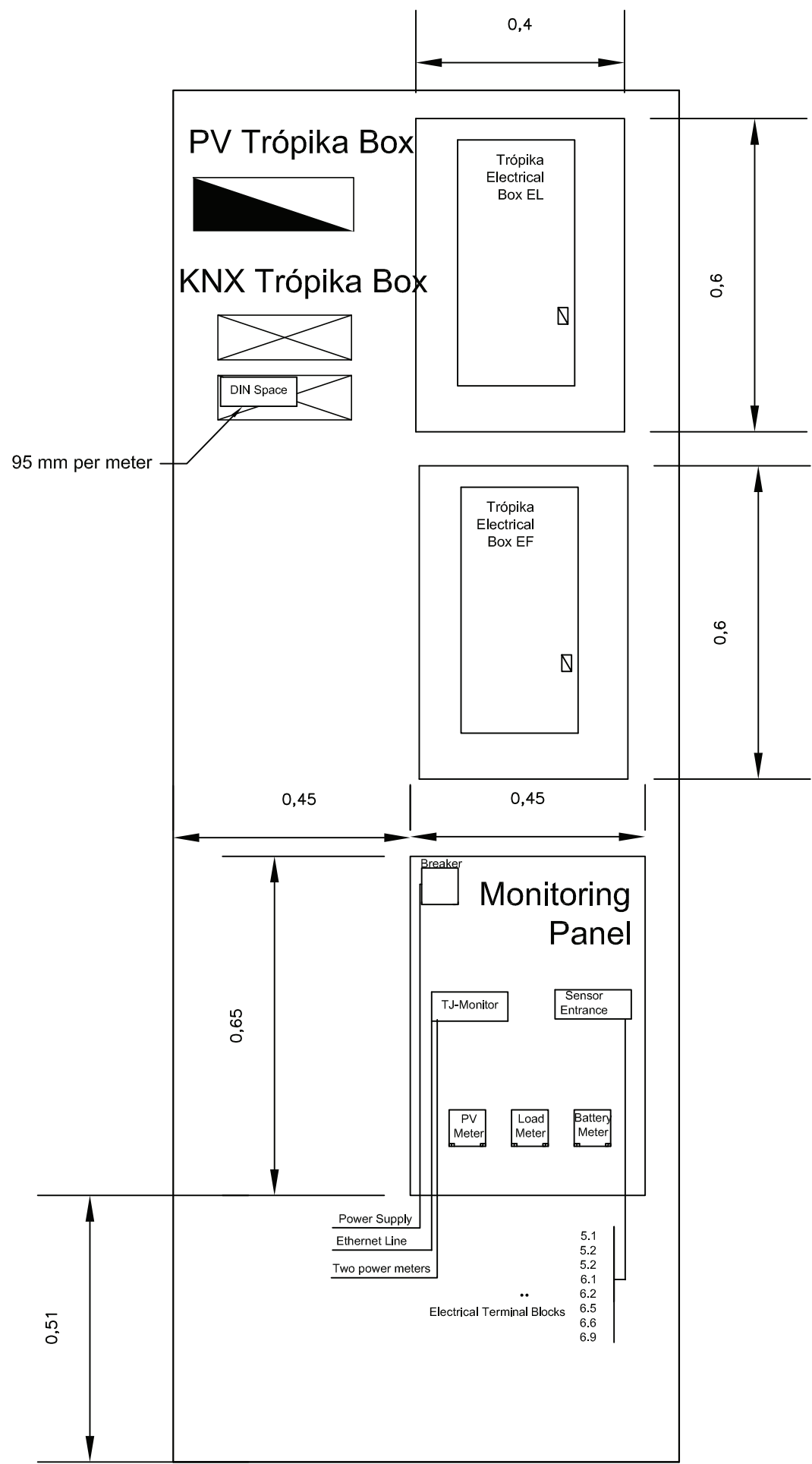
▢ Monitoring Panel

--- Sensors Channeling  
EMT CURVE 25,6mm

Keys Notes

1. SDE Routing. Channeling metal conduit Ø25,6mm
2. Lenght: Distance from monitoring panel
3. Power Supply. Channeling metal conduit Ø32mm

# ELECTRICAL ROOM

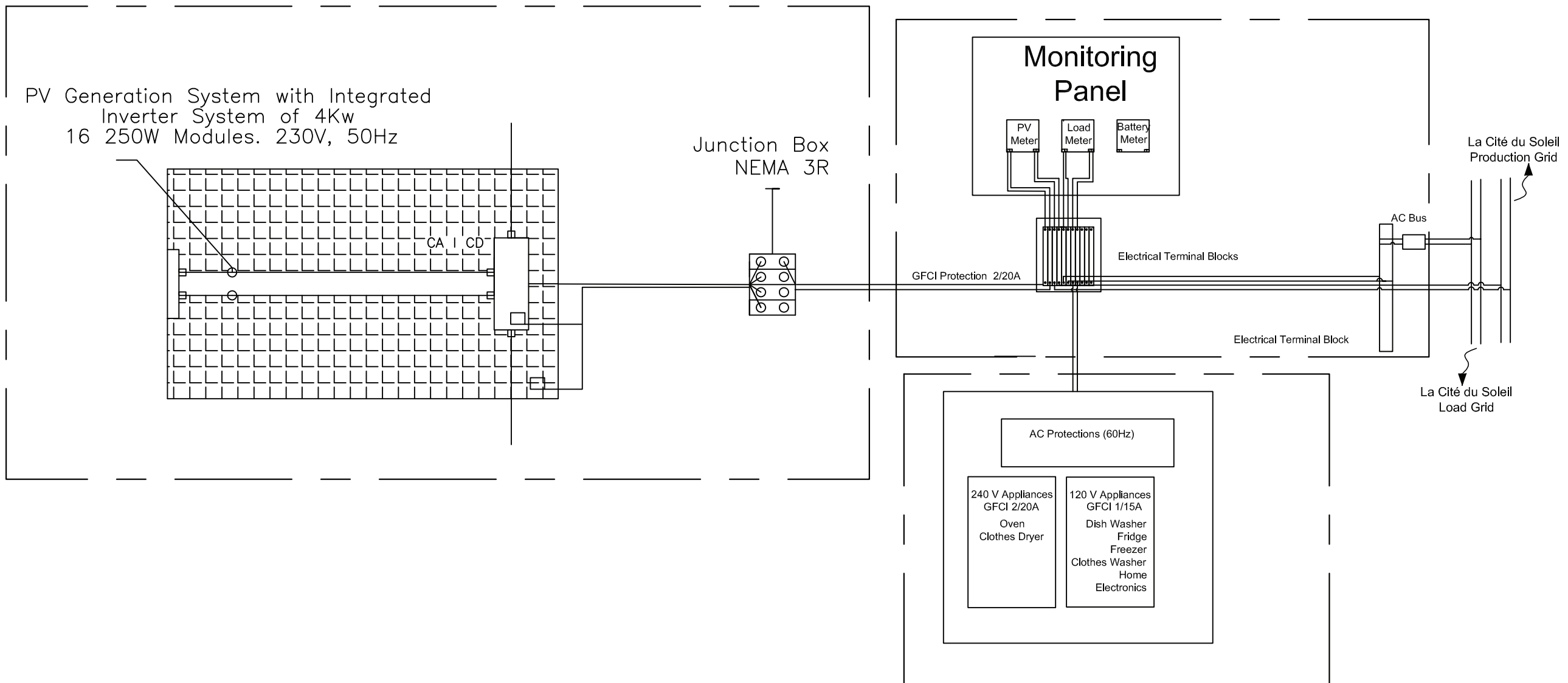


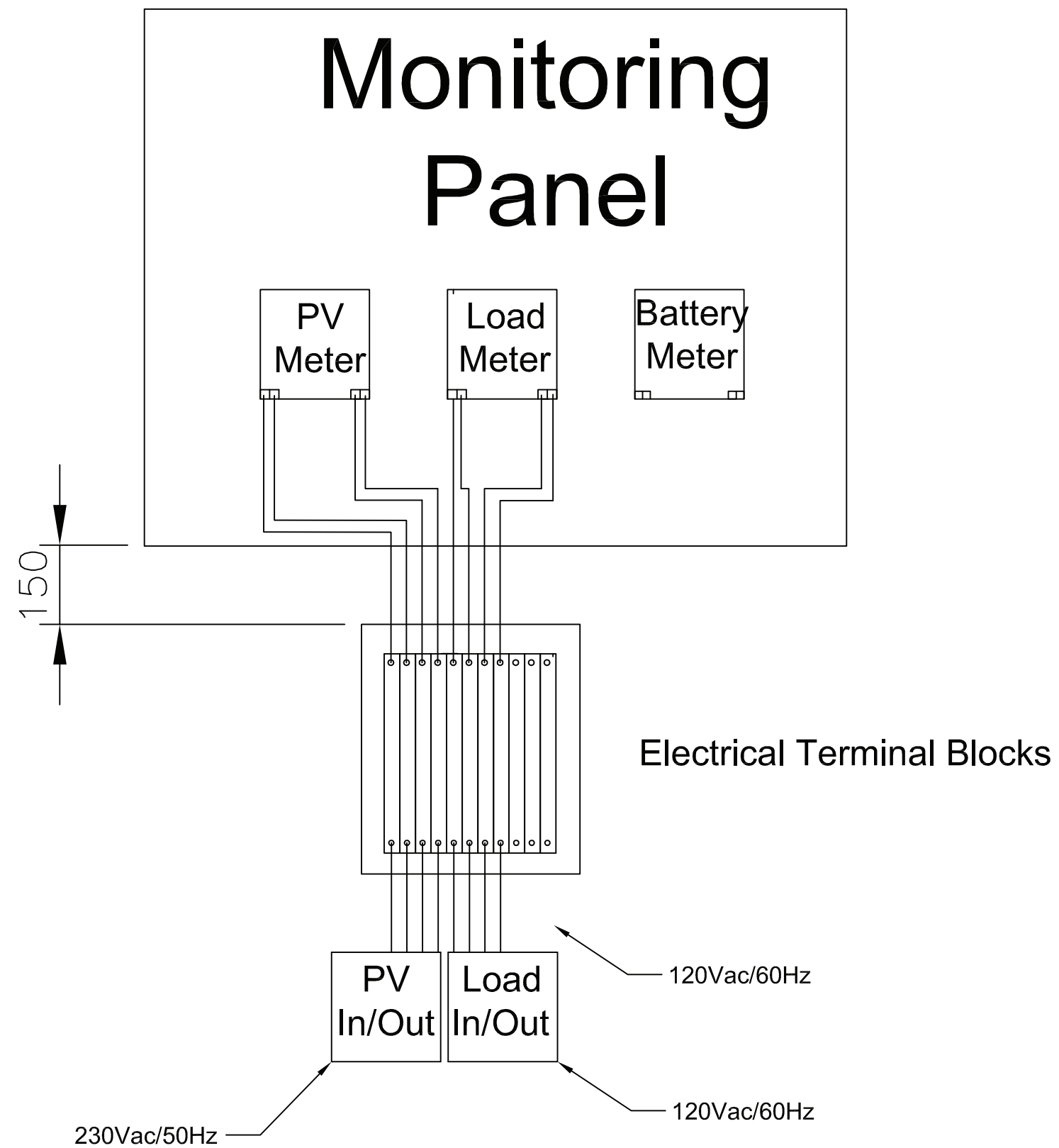
Keys Notes
1. DIN rail space for Home Electronics & Appliances +Lighting+Home Automation are provided in KNX Trópika Box, because Trópika's Electrical Box do not use DIN Rail mounting.
2.Depth Reserved for Monitoring Panel: 220mm
3.Home Electronics Meter length cable: 3m
4.A+L+HA Meter length cable: 3m
5.Holding monitoring panel by the wood frame



Deliverable #7 Project Drawings	
Proyect: Trópika	
Team: Tec Team	
Country: Costa Rica	
Instrumentation Contact: Hugo Sánchez O.	
Made by: Department of Engineering	
Sheet title Monitorig panel room	
Content: Monitorig panel room Diagram	
Scale: 1:10	Date: 03/11/2014
Code: ID-002	







\*Dimension in millimeters

**Deliverable #7**  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Instrumentation Contact:  
Hugo Sánchez O.

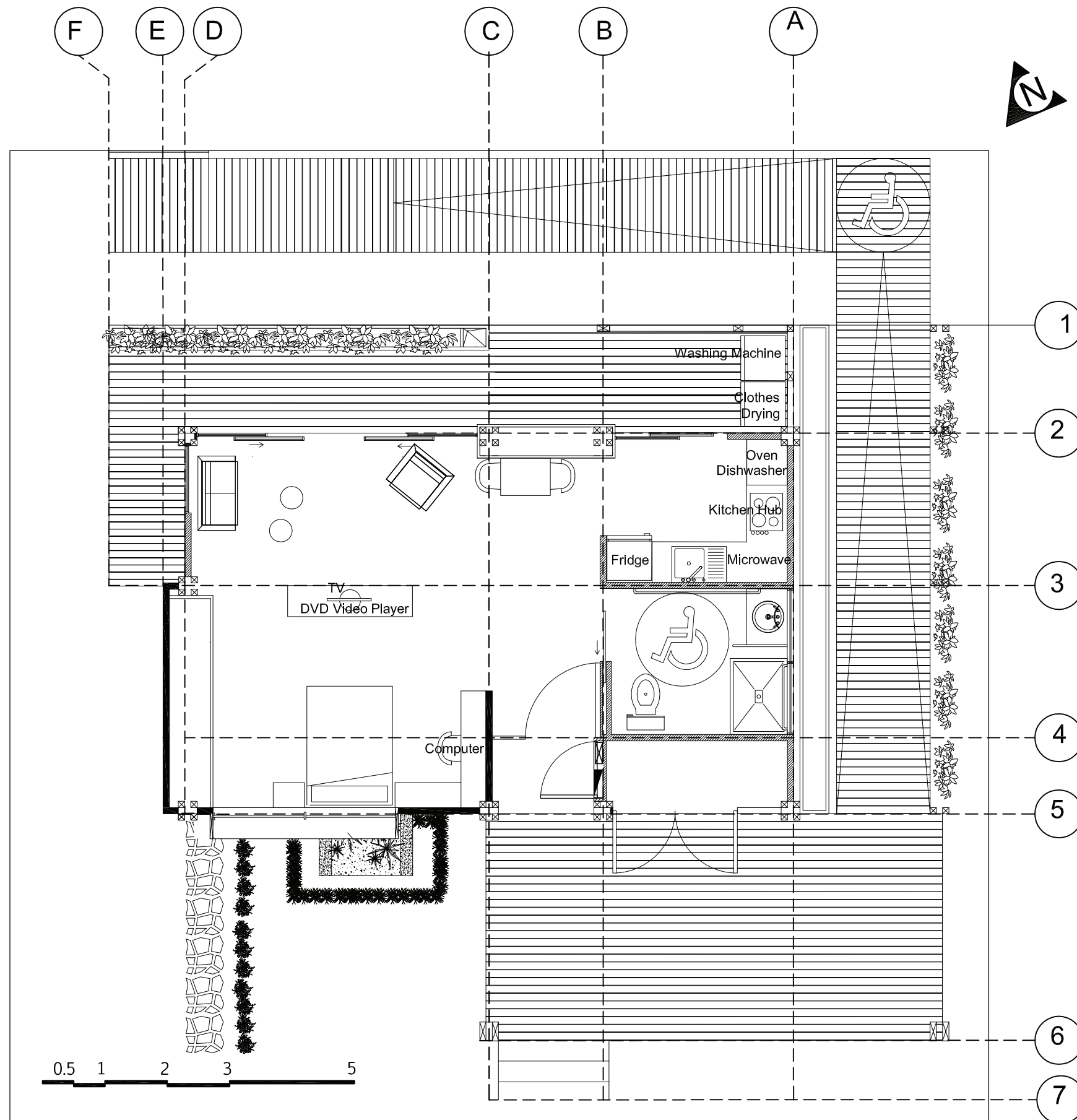
Made by: Department of  
Engineering

Sheet title  
House Appliances

Content: House Appliances  
Diagram

Scale: 1:75 Date: 03/11/2014

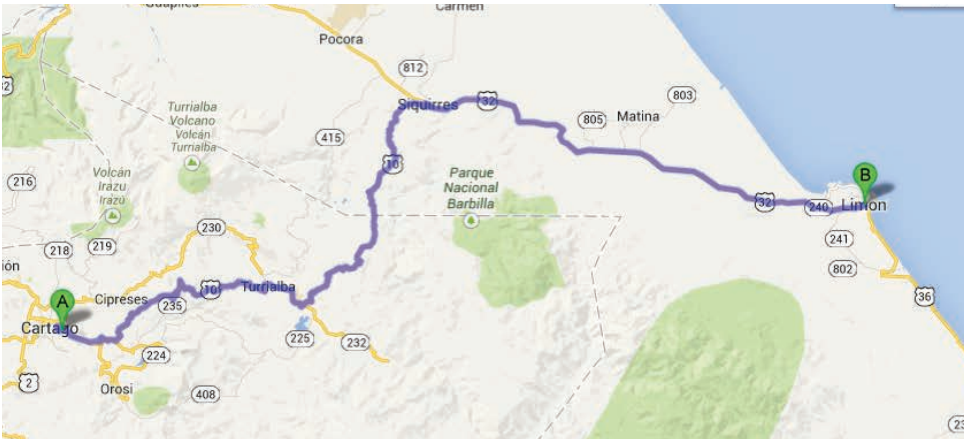
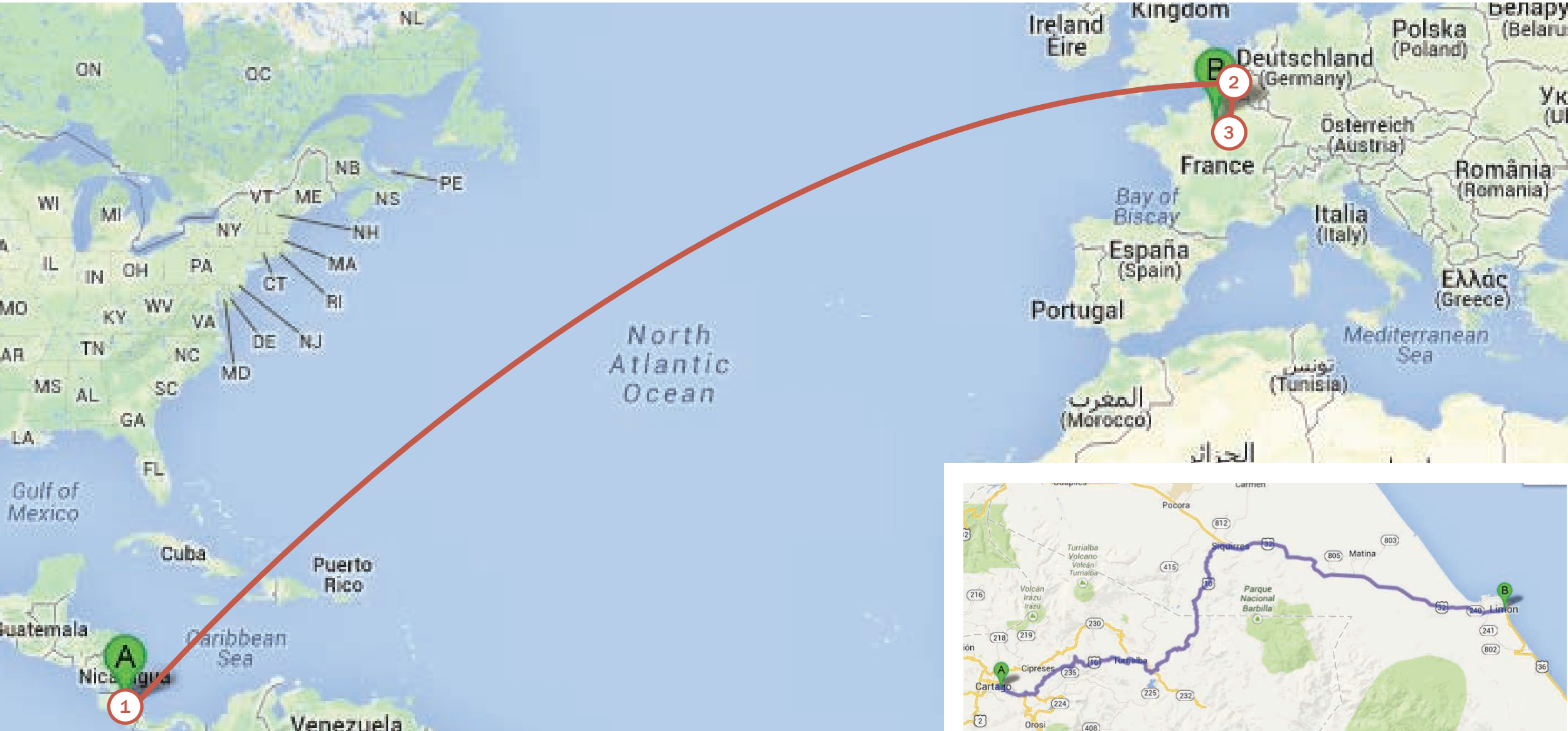
Code: ID-005



**Keys Notes**

1. SDE Routing. Channeling metal conduit Ø25,6mm
2. L: Distance from monitoring panel

Appliances	Brand	Model
Fridge/ Freezer	Samsung	RT32FARLDSL
DVD Player	Samsung	HT E3500ZP
TV	Samsung	UN40F5500AFXZP
Washing Machine	Frigidaire	FFF55115PA
Clothes Dryer	Frigidaire	FFFG5115PA
Oven	Bosch	HBN42S350E
Microwave	Bosch	HBC86E650N
Dish washer	Bosch	SHX4AP05UC
Kitchen Hub	Summit Appliance	SINC2220
PC	ASUS	X75a



Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
engineering

Sheet title

Outside Logistics

Content:

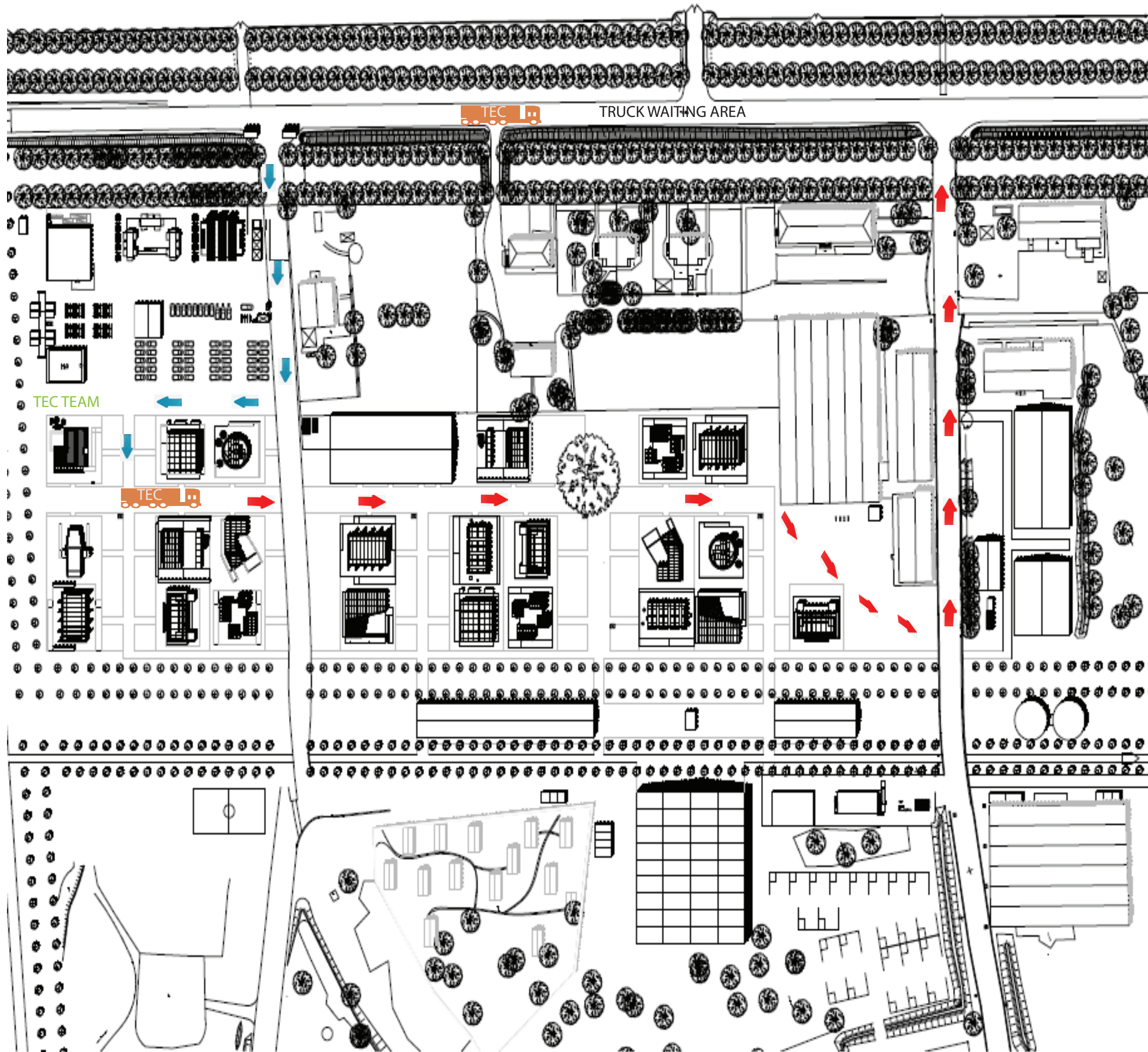
Scale: 1:20

Date: 11/3/2014

Code:

SO-001





Deliverable #7 Project Drawings	
Project: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
Made by: Department of engineering	
Sheet title Inside Logistics	
Content: La Cité du Soleil	
Scale: 1:20	Date: 11/3/2014
Code: SO-101	





High visibility jacket must be worn

+



Hard hat area

+



Safety gloves must be worn

+



Eye protection must be worn

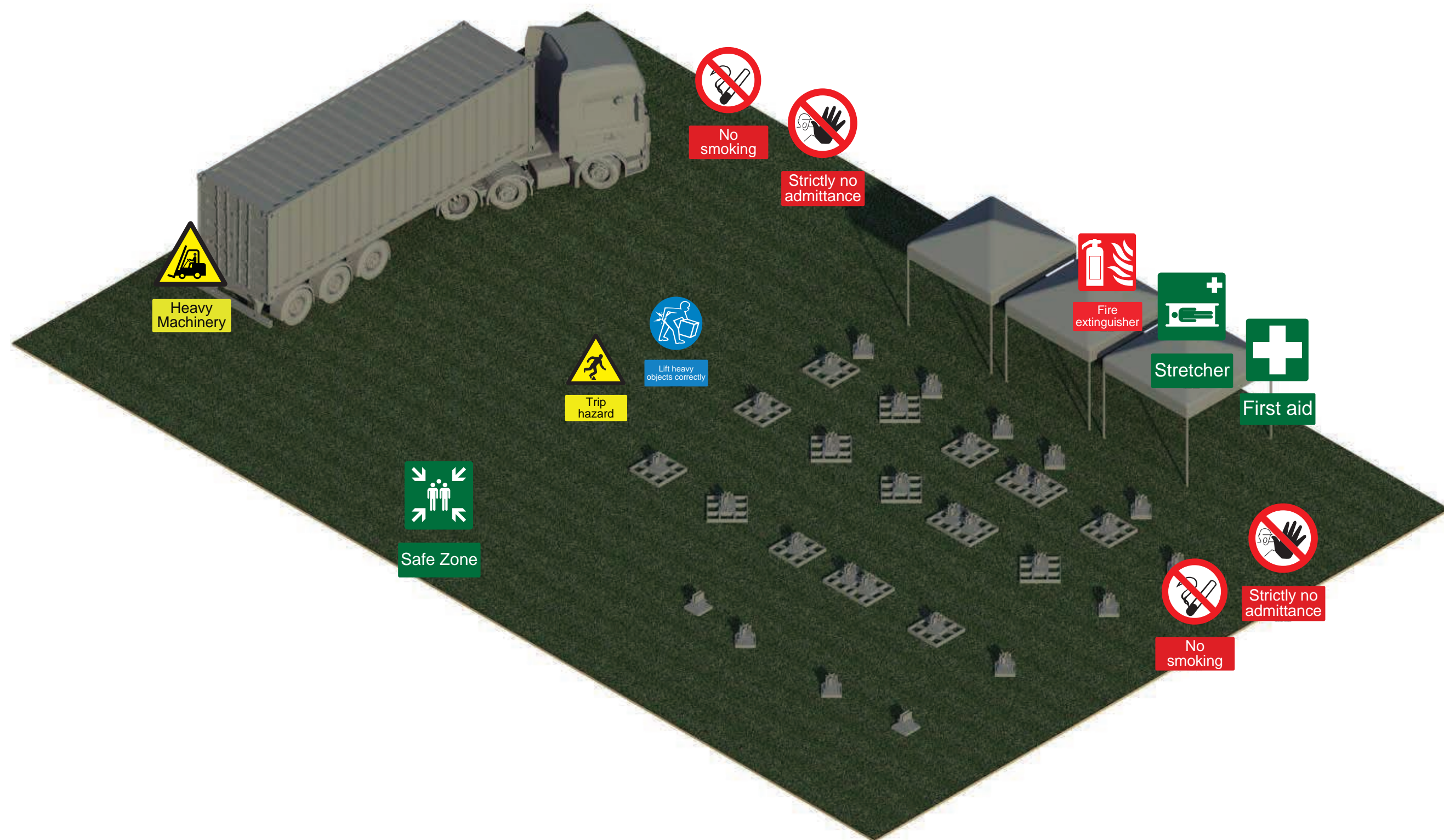
+



Wear safety footwear

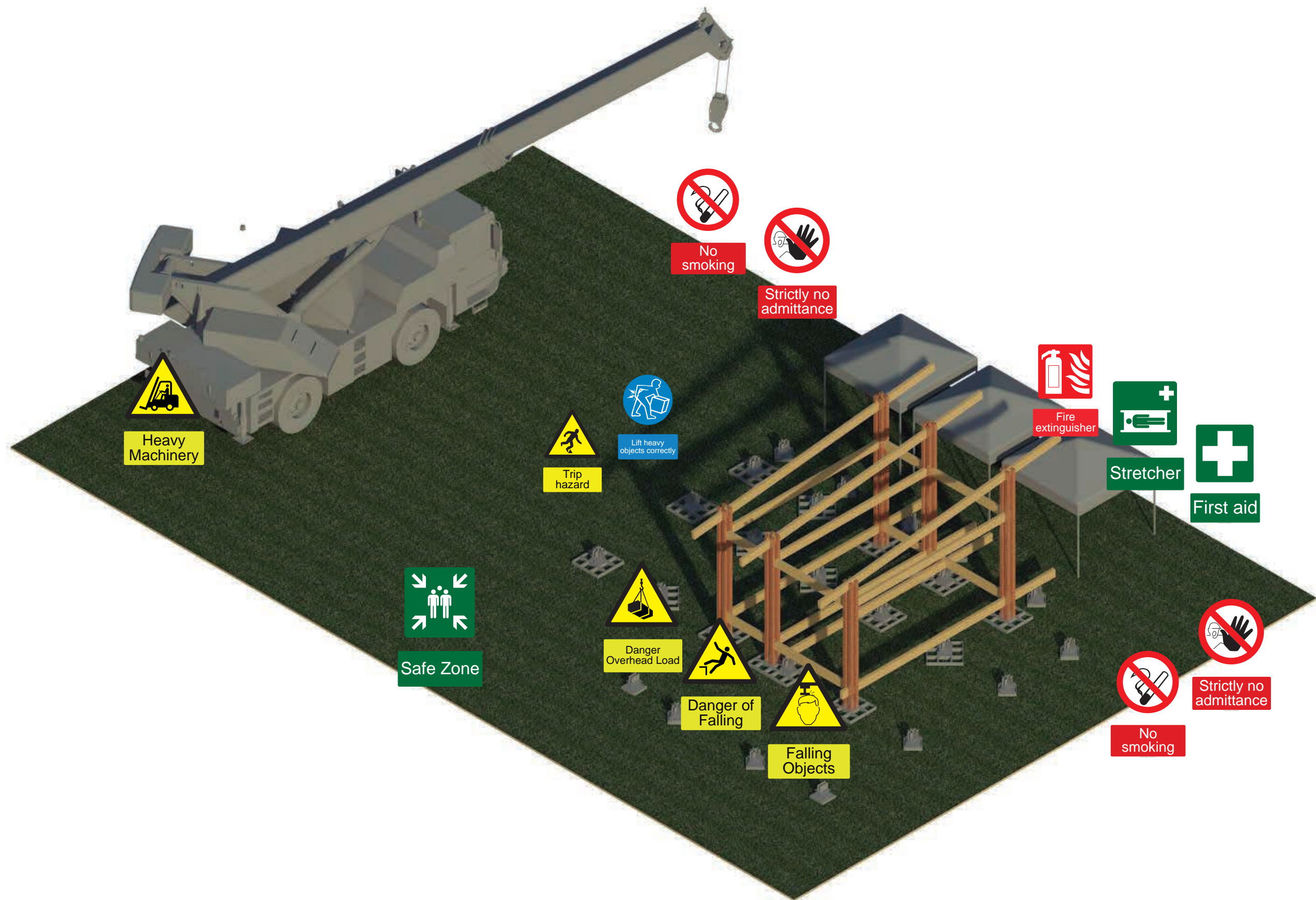
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Obligatory Equipment Use



	
	
Deliverable #7 Project Drawings	
Project: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
Made by: Department of H S	
Sheet title Safety sign posting	
Content: Safety sign posting during the assembly and disassembly	
Scale:	Date:11/3/2014
Code:	HS-401





Deliverable #7  
Project Drawings

Proyect: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
H S

Sheet title

Safety sign posting

Content: Safety sign posting  
during the assembly  
and disassembly

Scale:

Date:11/3/2014

Code:

HS-402



High visibility jacket must be worn

+

Hard hat area

+

Safety gloves must be worn

+

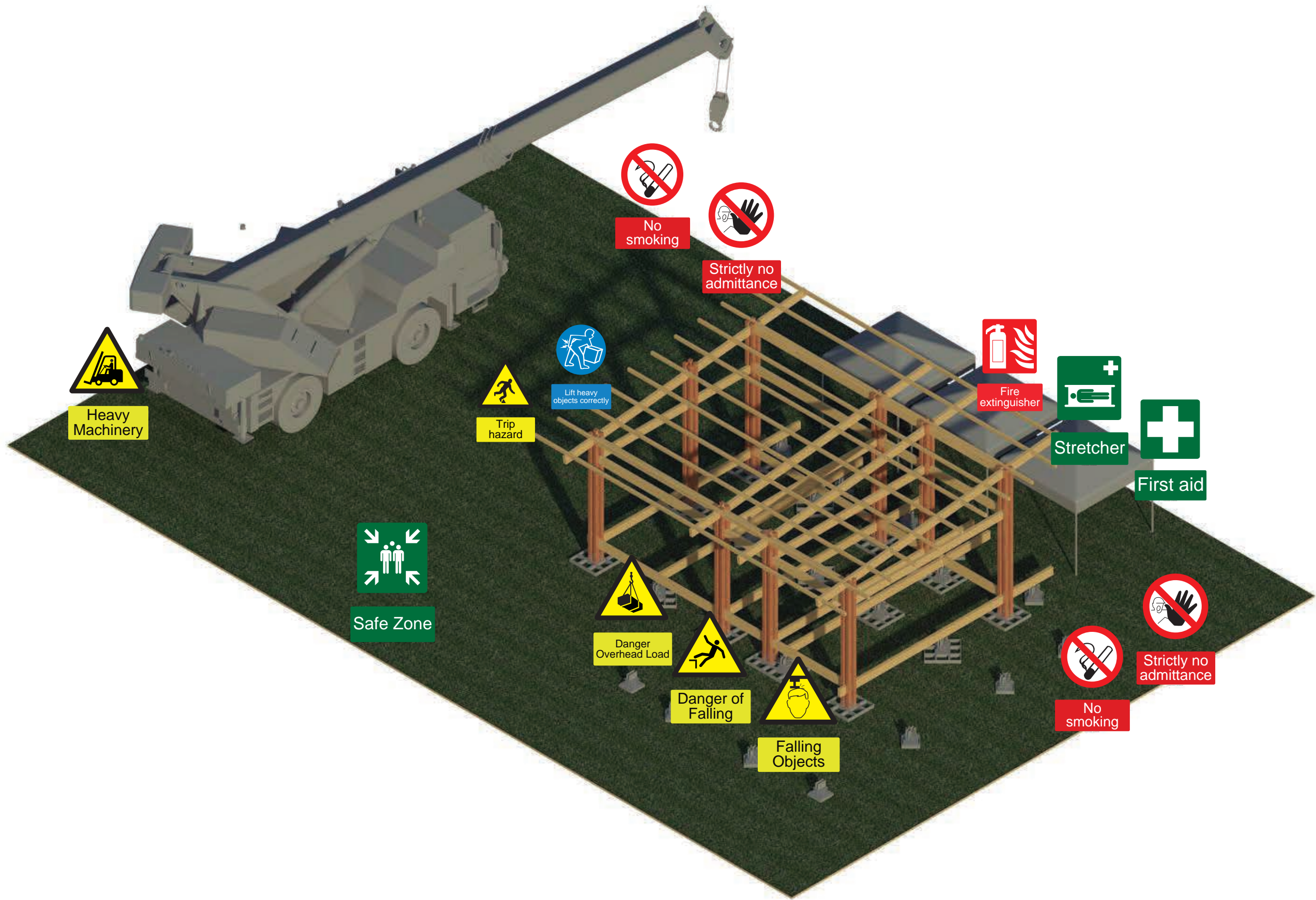
Eye protection must be worn

+

Wear safety footwear


=

Obligatory Equipment Use




Deliverable #7 Project Drawings	
Proyect:	Trópika
Team:	Tec Team
Country:	Costa Rica
Professional seal:	
Made by: Department of H S	
Sheet title Safety sign posting	
Content: Safety sign posting during the assembly and disassembly	
Scale:	Date:11/3/2014
Code:	HS-403






High visibility jacket must be worn

+




Hard hat area

+




Safety gloves must be worn

+



Eye protection must be worn

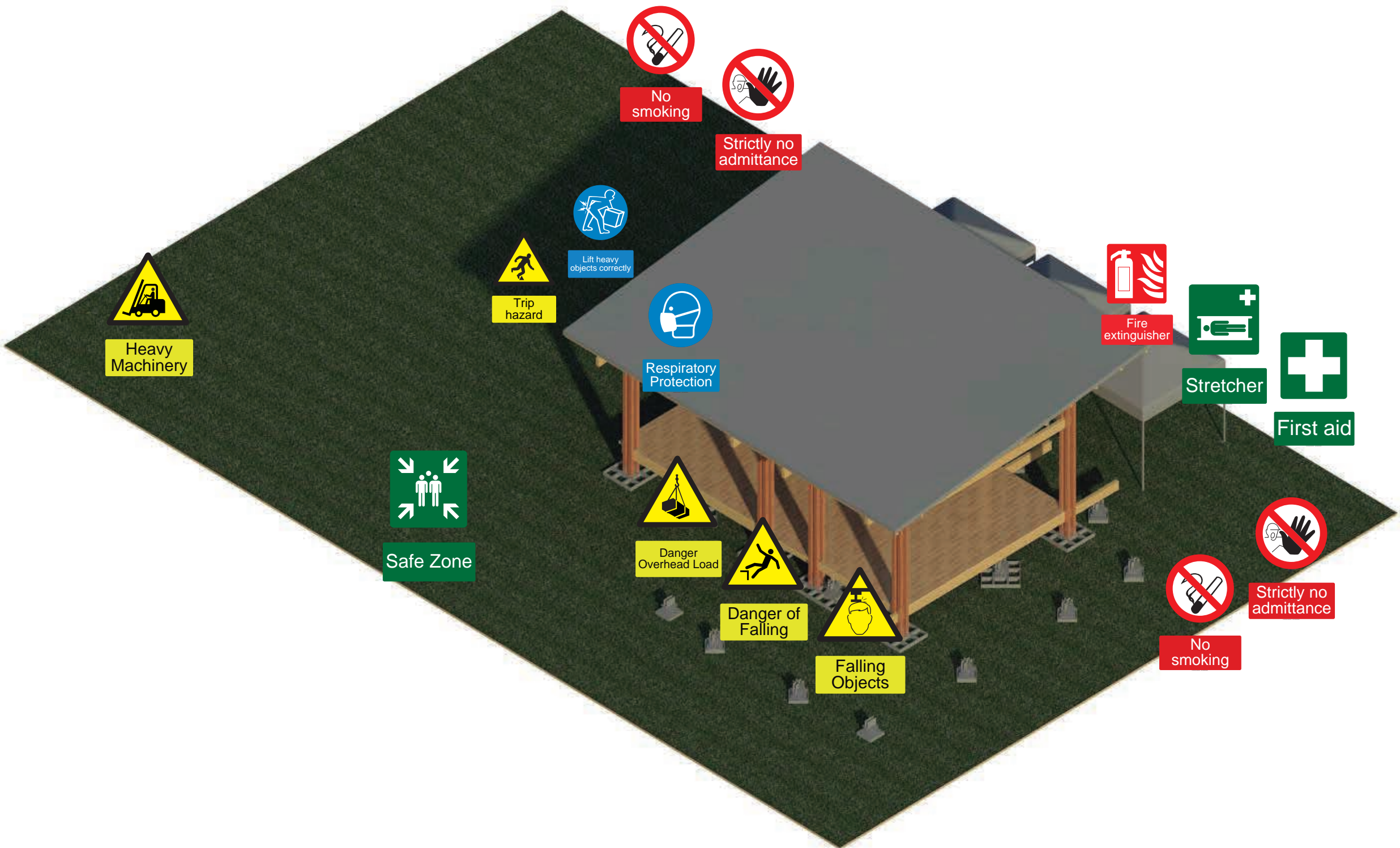
+



Wear safety footwear

=

Obligatory Equipment Use



	
	
Deliverable #7 Project Drawings	
Proyect: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
Made by: Department of H S	
Sheet title Safety sign posting	
Content: Safety sign posting during the assembly and disassembly	
Scale:	Date:11/3/2014
Code:	HS-404



High visibility jacket must be worn

+

Hard hat area

+

Safety gloves must be worn

+

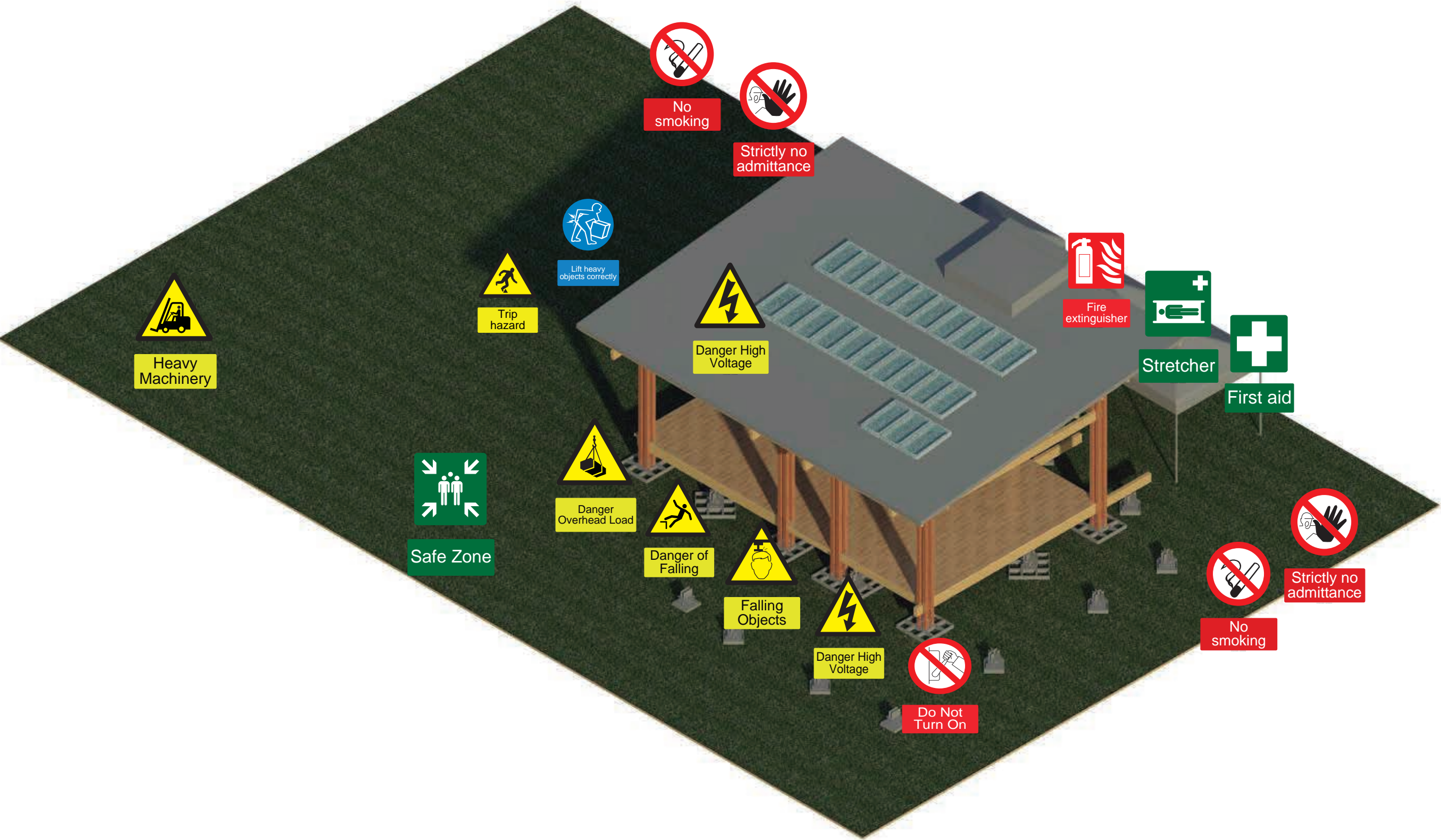
Eye protection must be worn

+

Wear safety footwear


=

Obligatory Equipment Use




Deliverable #7 Project Drawings	
Proyect: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
Made by: Department of H S	
Sheet title Safety sign posting	
Content: Safety sign posting during the assembly and disassembly	
Scale:	Date:11/3/2014
Code:	HS-405






High visibility jacket must be worn

+




Hard hat area

+




Safety gloves must be worn

+



Eye protection must be worn

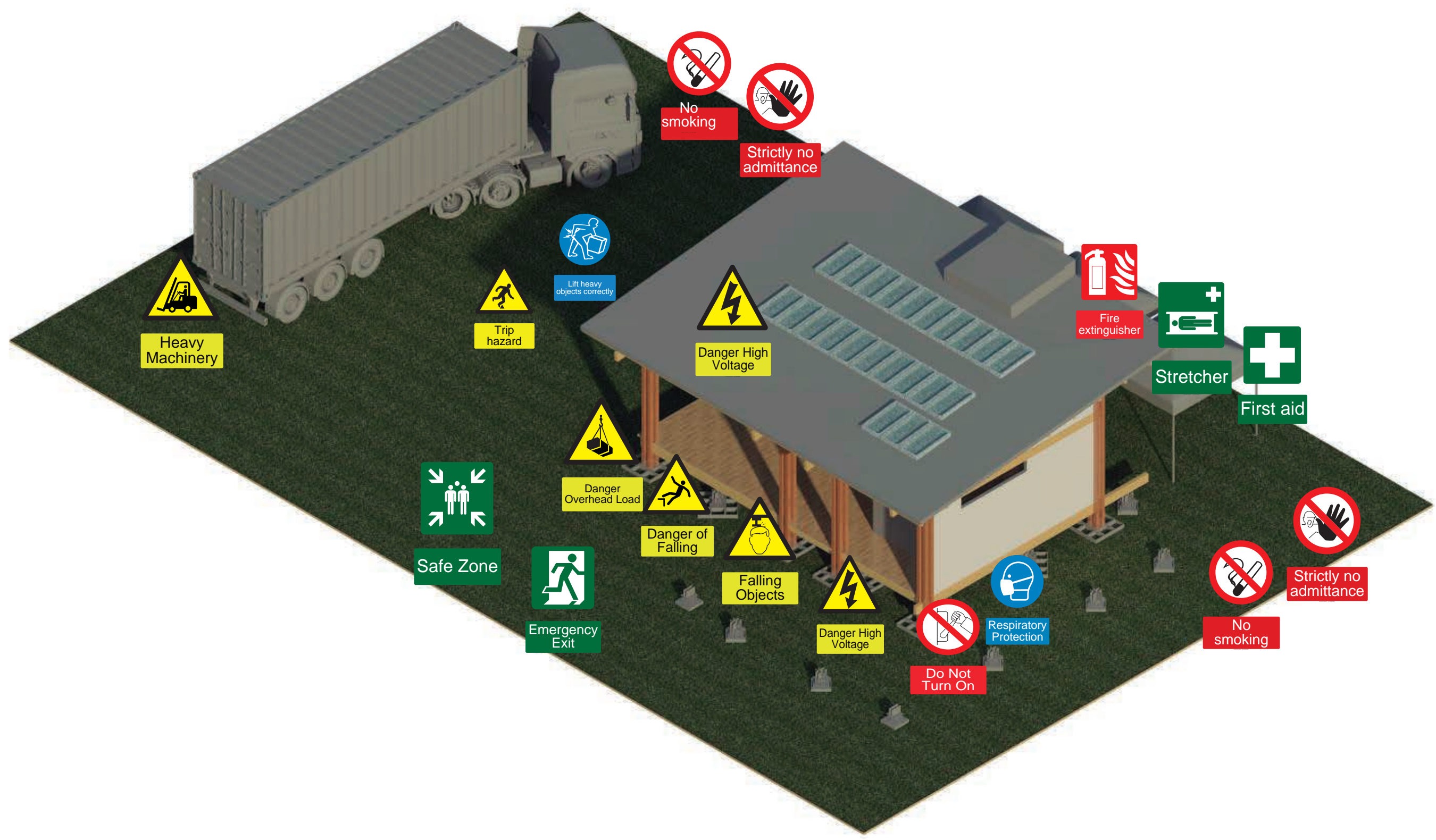
+



Wear safety footwear

=

Obligatory Equipment Use



Deliverable #7 Project Drawings	
Proyect: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
Made by: Department of H S	
Sheet title Safety sign posting	
Content: Safety sign posting during the assembly and disassembly	
Scale:	Date11/3/2014
Code:	HS-406



High visibility jacket must be worn

+

Hard hat area

+

Safety gloves must be worn

+

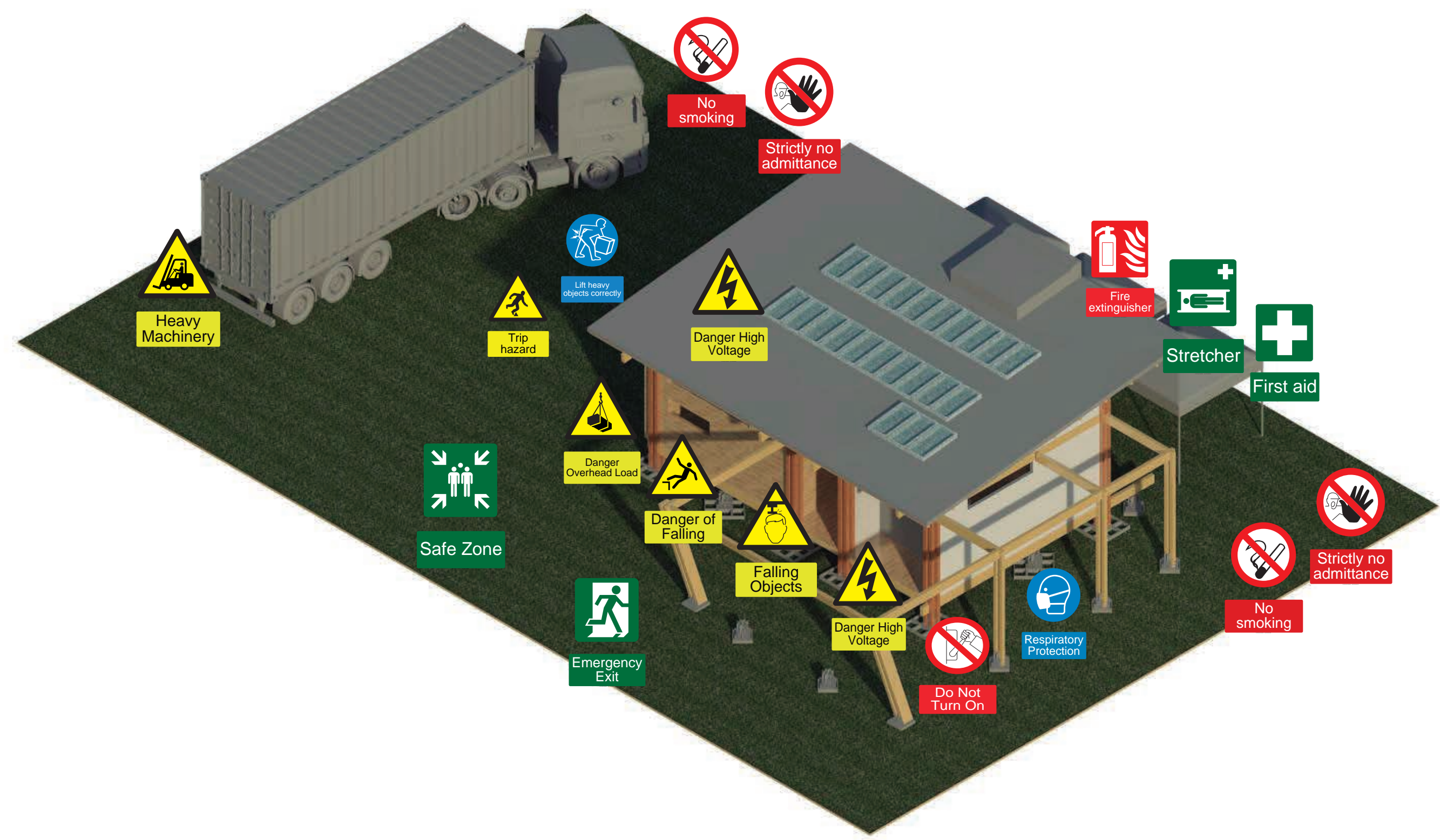
Eye protection must be worn

+

Wear safety footwear

=

Obligatory Equipment Use



Deliverable #7 Project Drawings	
Project: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
Made by: Department of H S	
Sheet title Safety sign posting	
Content: Safety sign posting during the assembly and disassembly	
Scale:	Date:11/3/2014
Code:	HS-407



High visibility jacket must be worn

+

Hard hat area

+

Safety gloves must be worn

+

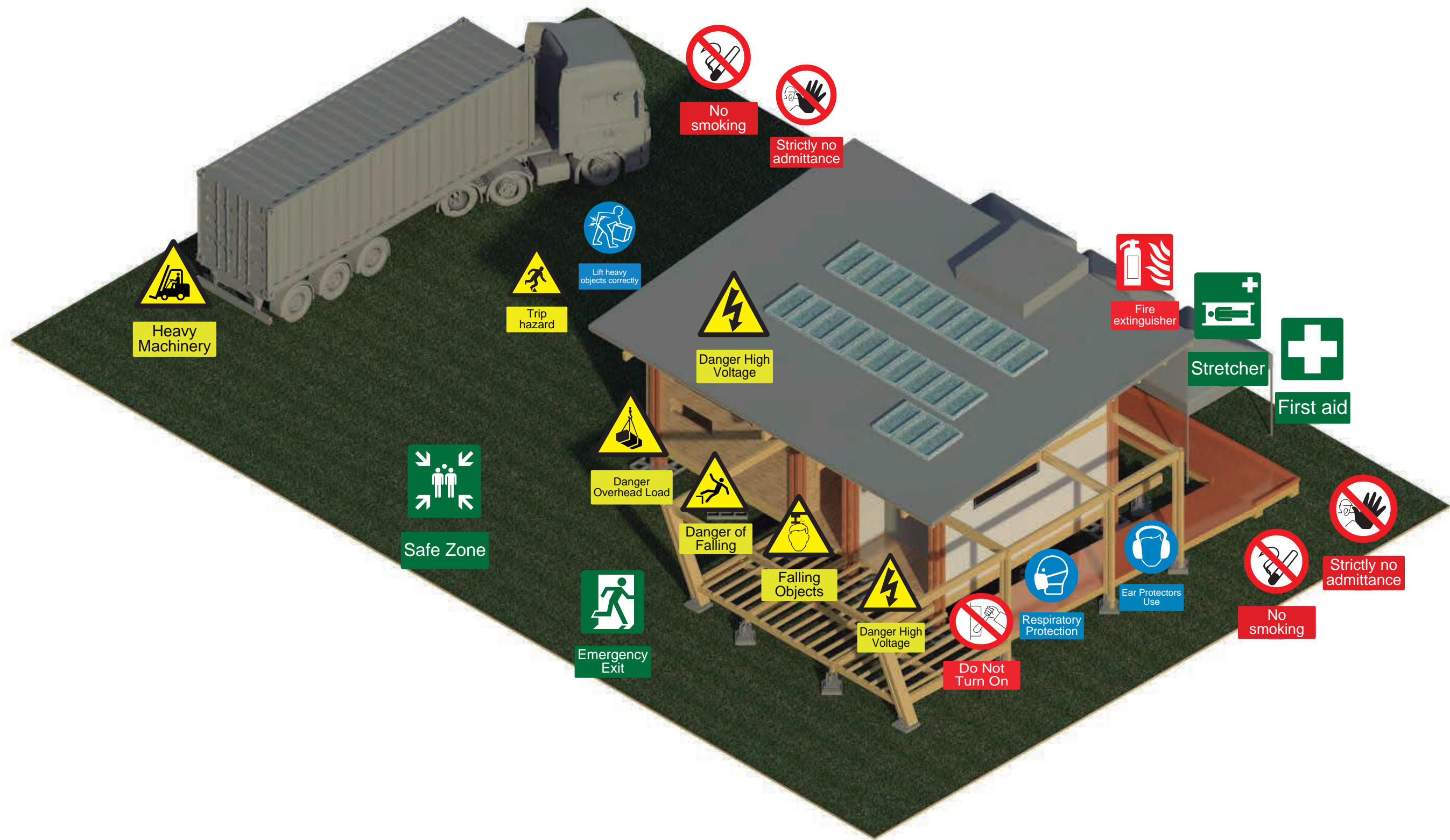
Eye protection must be worn

+

Wear safety footwear

=

Obligatory Equipment Use



Deliverable #7 Project Drawings	
Proyect: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
Made by: Department of H S	
Sheet title Safety sign posting	
Content: Safety sign posting during the assembly and disassembly	
Scale:	Date:11/3/2014
Code:	HS-408





Deliverable #7  
Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

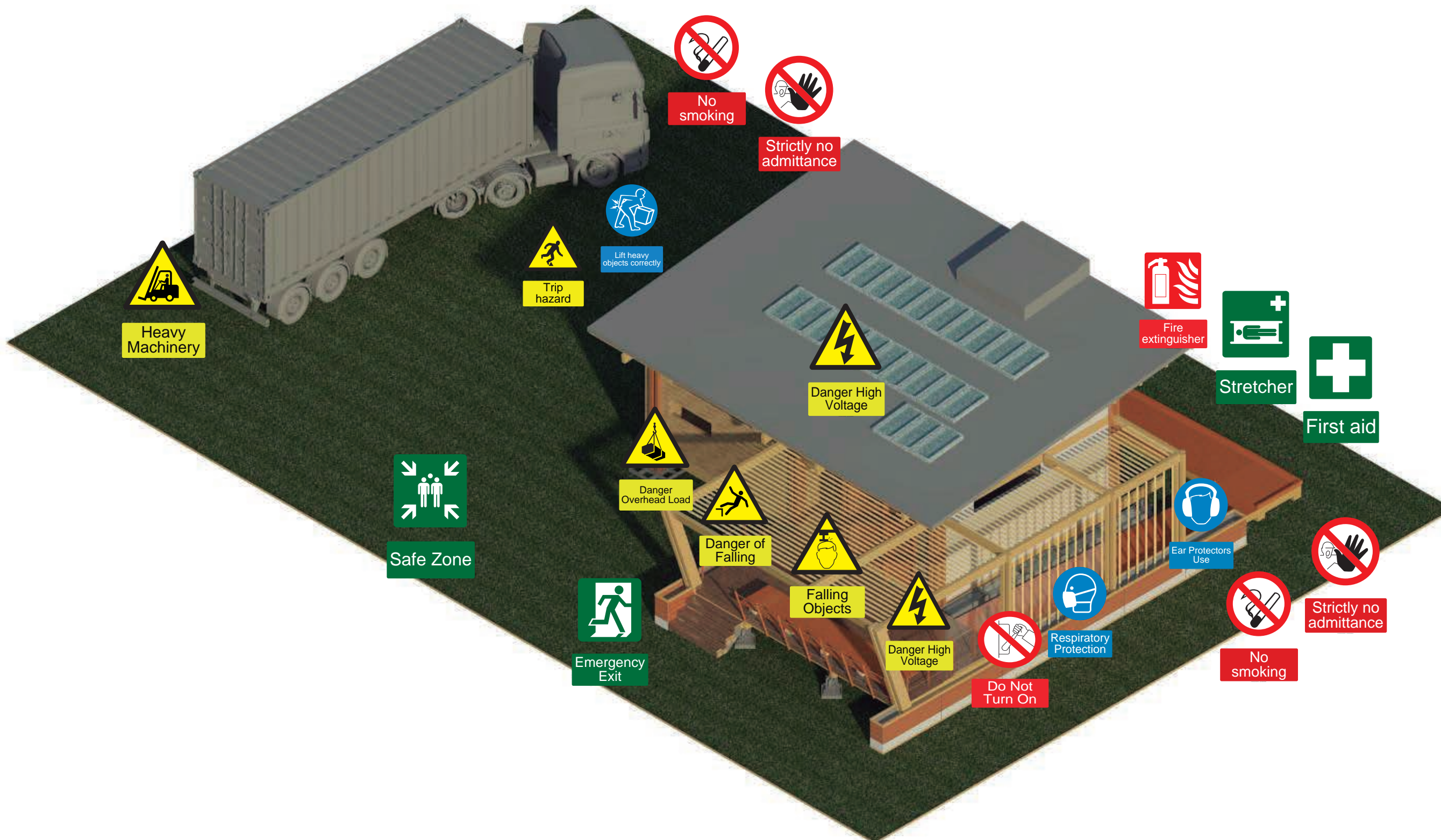
Made by: Department of  
H S

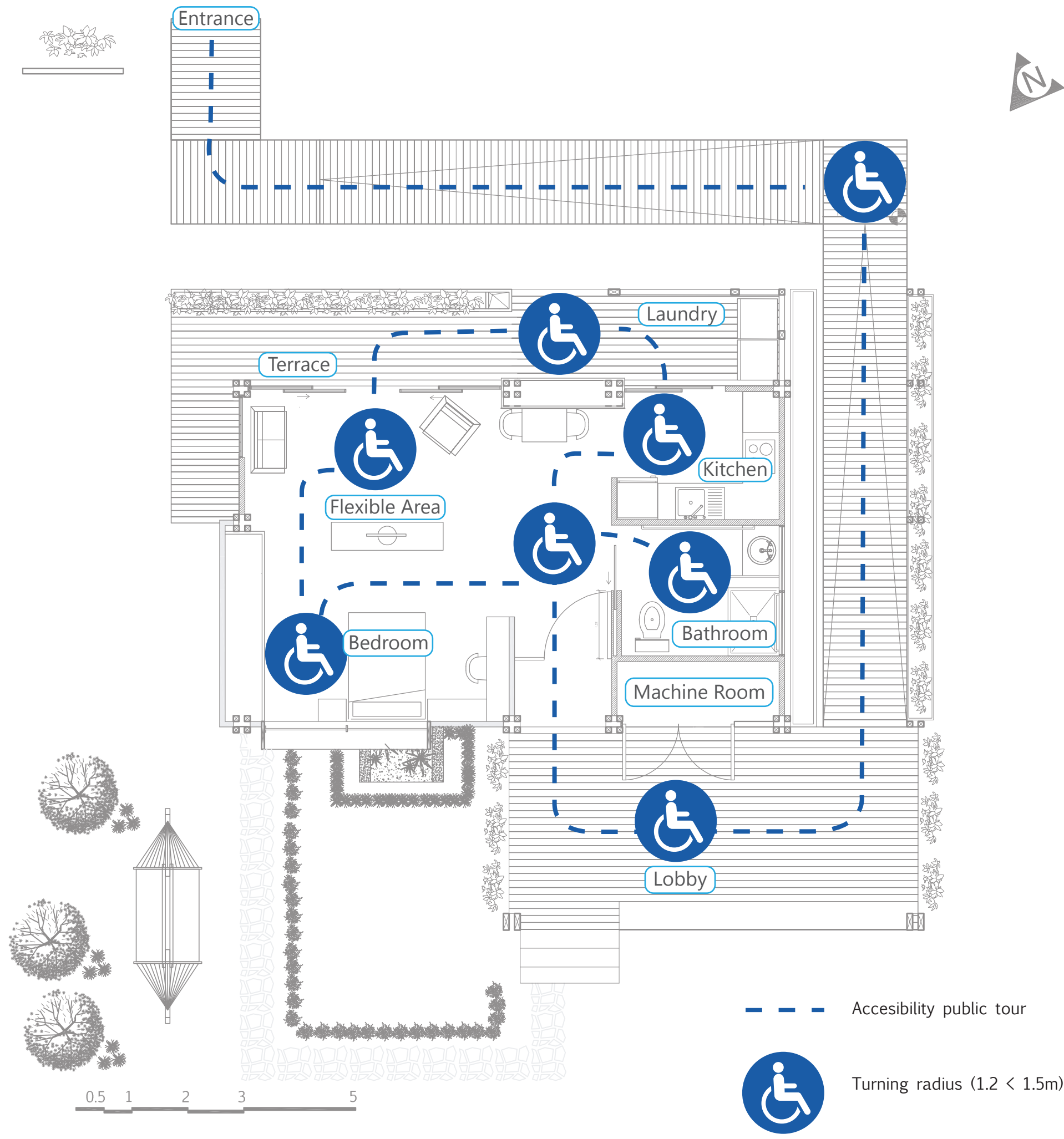
Sheet title  
Safety sign posting

Content: Safety sign posting  
during the assembly  
and disassembly

Scale: Date:11/3/2014

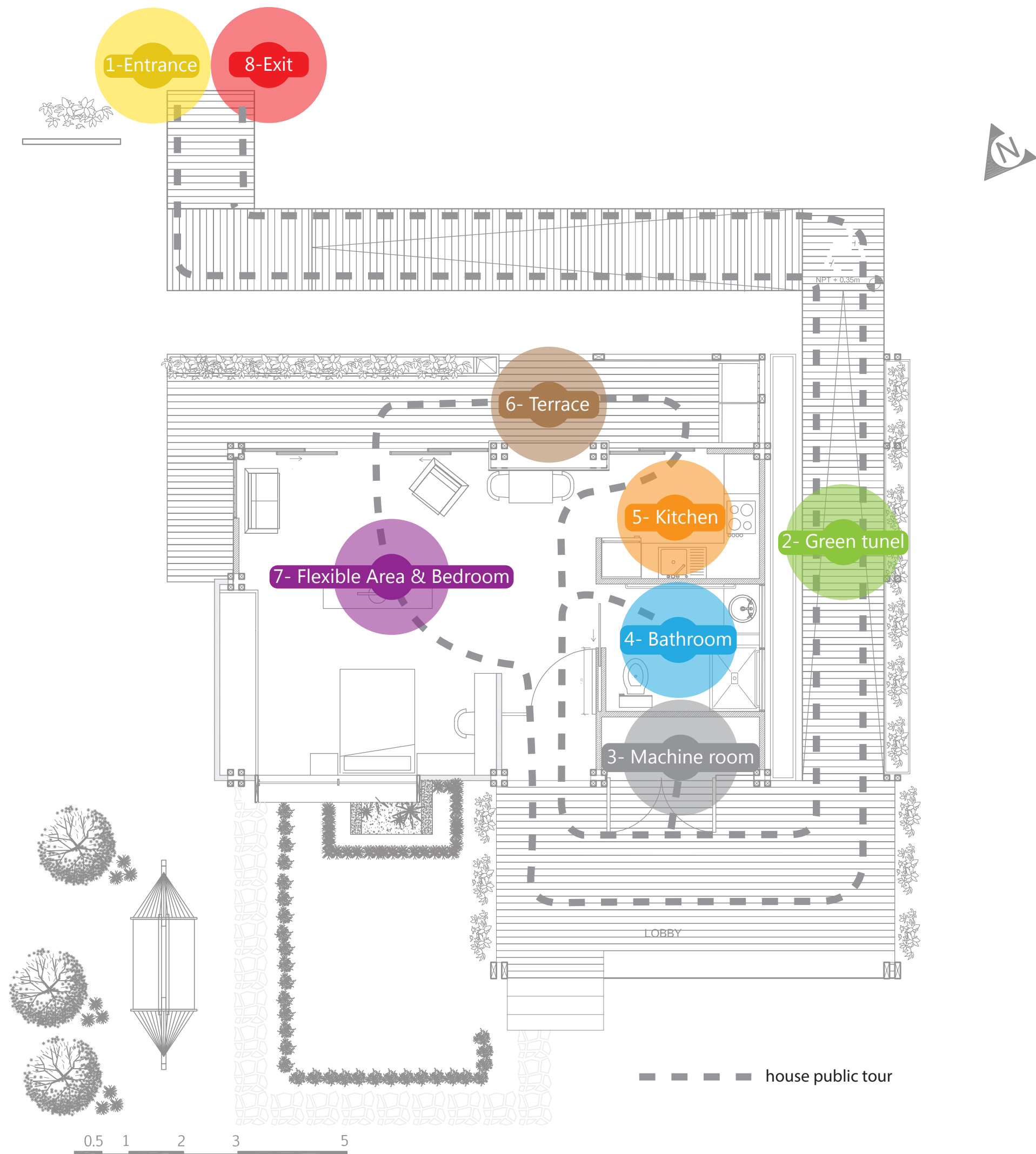
Code: HS-409





Deliverable #7 Project Drawings	
Proyect: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
Made by: Department of Administration and Design	
Sheet title	
Public tour	
Content: Site Accessibility	
Scale: 1:100	Date:11/3/2014
Code: PT-001	





# Deliverable #7 Project Drawings

Project: Trópika

Team: Tec Team

Country: Costa Rica

Professional seal:

Made by: Department of  
Administration and Design

Sheet title

Public tour

Content: House Tour  
Floor Plan

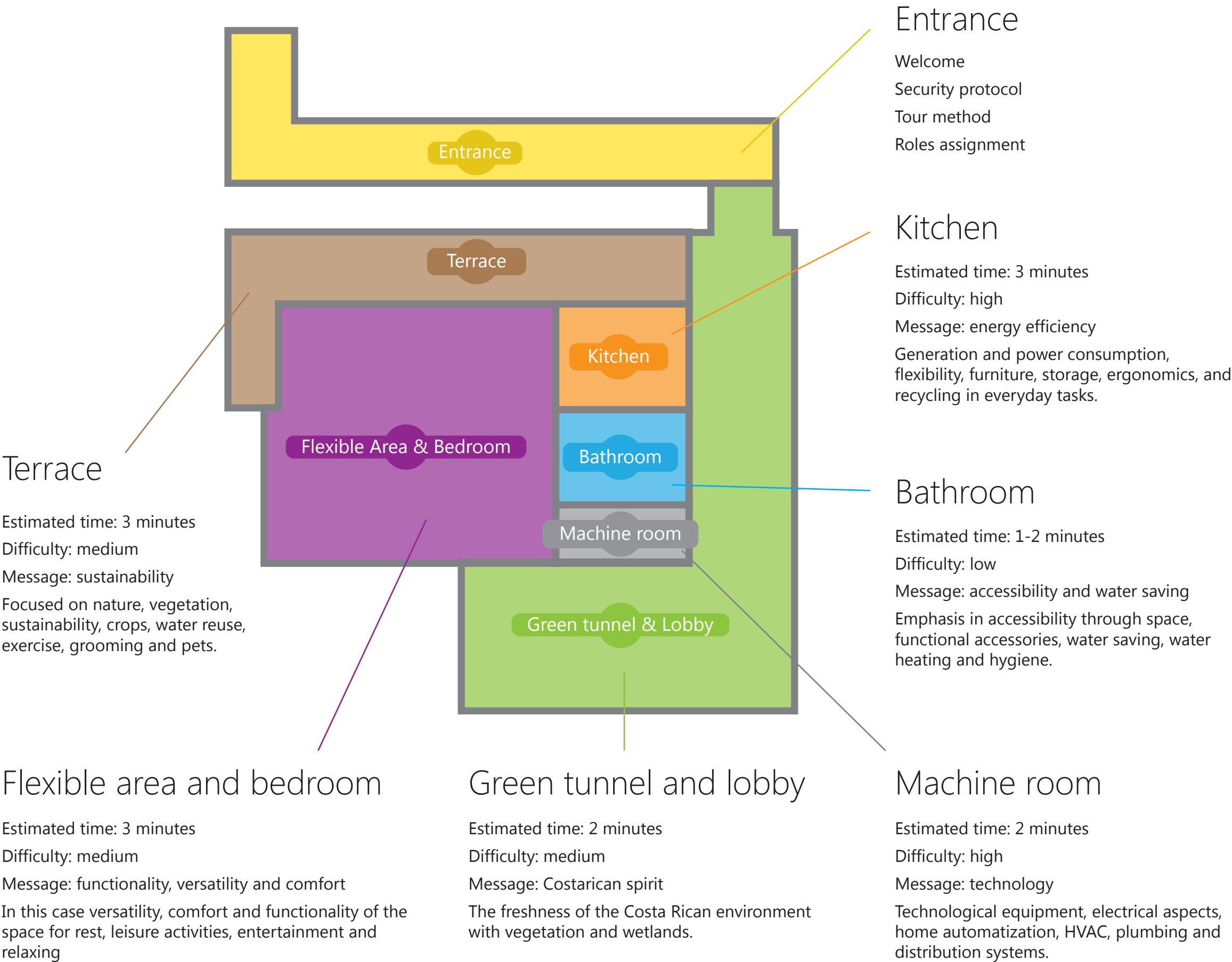
Scale: 1:100

Date: 11/3/2014

Code: PT-101

# Trópika public tour

Languages: Spanish, French and English  
Maximum guests in the tour: 7 people  
Total estimated time: 12-15 minutes  
Main message: "Trópika: More than a house, your home."



	
	
Deliverable #7 Project Drawings	
Project: Trópika	
Team: Tec Team	
Country: Costa Rica	
Professional seal:	
Made by: Department of Administration and Design	
Sheet title	
Public tour	
Content: House Tour General information	
Date: 11/3/2014	
Code:	PT-301