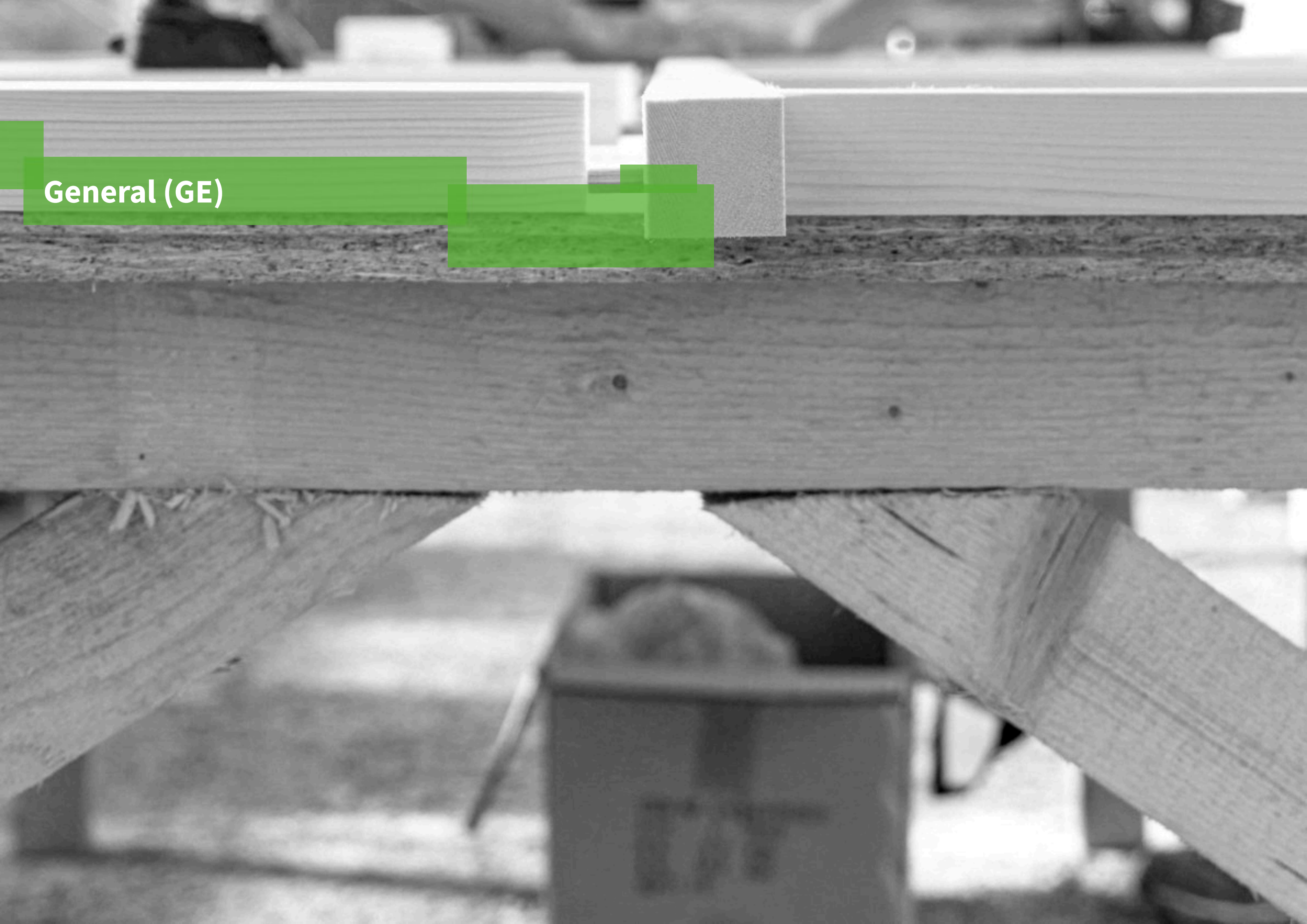




General (GE)

GE-10 Sheet List

General (GE)

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- GE-10 Sheet List
- GE-11 Summary of changes
- GE-20 General Symbols
- GE-21 General Abbreviations

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- AR-2001 Site Plan Solar Campus
- AR-2101 Floor Plan
- AR-2102 Upper Floor Plan
- AR-2201 Roof Plan
- AR-2301 Building Elevation South
- AR-2302 Building Elevation West
- AR-2401 Building Section B-B
- AR-2402 Building Section A-A
- AR-2403 Building Section 1-1
- AR-2404 Building Section 2-2
- AR-2405 Building Section 3-3
- AR-5006 exterior Rendering
- AR-5006 exterior Rendering
- AR-5006 exterior Rendering
- AR-5006 exterior Rendering
- AR-5006 exterior Rendering
- AR-5006 exterior Rendering

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- IN-2101 Kitchen plan section
- IN-2201 Cooking Island
- IN-2202 Container bedroom wardrobe and coat rack
- IN-2203 Container Kitchen
- IN-4001 Furnishing Upholstered element with backrest
- IN-4002 Furnishing Couch element table
- IN-4003 Furnishing Element without backrest
- IN-4004 Furnishing Dining table
- IN-4005 Furnishing Hall cupboard
- IN-4006 Furnishing Bedroom wardrobe
- IN-4007 Furnishing Wardrobe entrance
- IN-4008 Outlet ceiling box schema
- IN-5001 Interior Rendering
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- ST-1002 Foundation plan Ramp, Platform
- ST-1101 Structural floor plan Floor elements
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- ST-1105 Structural floor plan Wood module wall
- ST-1106 Structural floor plan Wall elements Insulation panels
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- ST-1301 Structural Sections supporting wooden wall
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- ST-1306 Structural section Technology module •

GE-10 Sheet List

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- PL-1003 Plumping Plan - Level 01
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- PL-4001 DW Schematic diagram
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- PL-5001 Supply and removal - Isometric
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- ME-4002 Ventilation distribution Schematic drawings
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- EL-2001 DC wiring diagram
- EL-3001 Power Plan Level01
- EL-3002 Power Plan Level02
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- EL-5001 One-line Diagram
- EL-6001 AC Circuit layout
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- EL-6004 AC Circuit layout
- EL-6005 AC Circuit layout
- EL-6006 AC Circuit layout
- EL-6007 AC Circuit layout
- EL-6008 AC Circuit layout
- EL-6009 AC Circuit layout
- EL-6010 AC Circuit layout
- EL-6011 AC Circuit layout
- EL-6012 AC Circuit layout
- EL-6013 AC Circuit layout
- EL-6014 AC Circuit layout
- EL-6015 AC Circuit layout
- EL-6016 AC Circuit layout
- EL-6017 AC Circuit layout
- EL-6018 AC Circuit layout
- EL-6019 AC Circuit layout
- EL-6020 AC Circuit layout

GE-10 Sheet List

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- BMS-1003 Wiring Plan
- BMS-1004 Wiring Plan
- BMS-1005 Wiring Plan
- BMS-1006 Wiring Plan
- BMS-1007 Wiring Plan
- BMS-1008 Wiring Plan
- BMS-1009 Wiring Plan
- BMS-1010 Wiring Plan
- BMS-1011 Wiring Plan
- BMS-1012 Wiring Plan
- BMS-1013 Wiring Plan
- BMS-1014 Wiring Plan
- BMS-1015 Wiring Plan
- BMS-1016 Wiring Plan
- BMS-1017 Wiring Plan
- BMS-1018 Wiring Plan
- BMS-1019 Wiring Plan
- BMS-1020 Wiring Plan
- BMS-1021 Wiring Plan
- BMS-1022 Wiring Plan
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- BMS-2001 Schematic diagram
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GE-10 Sheet List

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- HS-2001 Escaperoute groundfloor
- HS-2002 Escaperoute firstfloor

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- PT-0001 site accessibility
- PT-0002 house tour floor plan

GE-11 Summary of Changes

GE-20 General Symbols



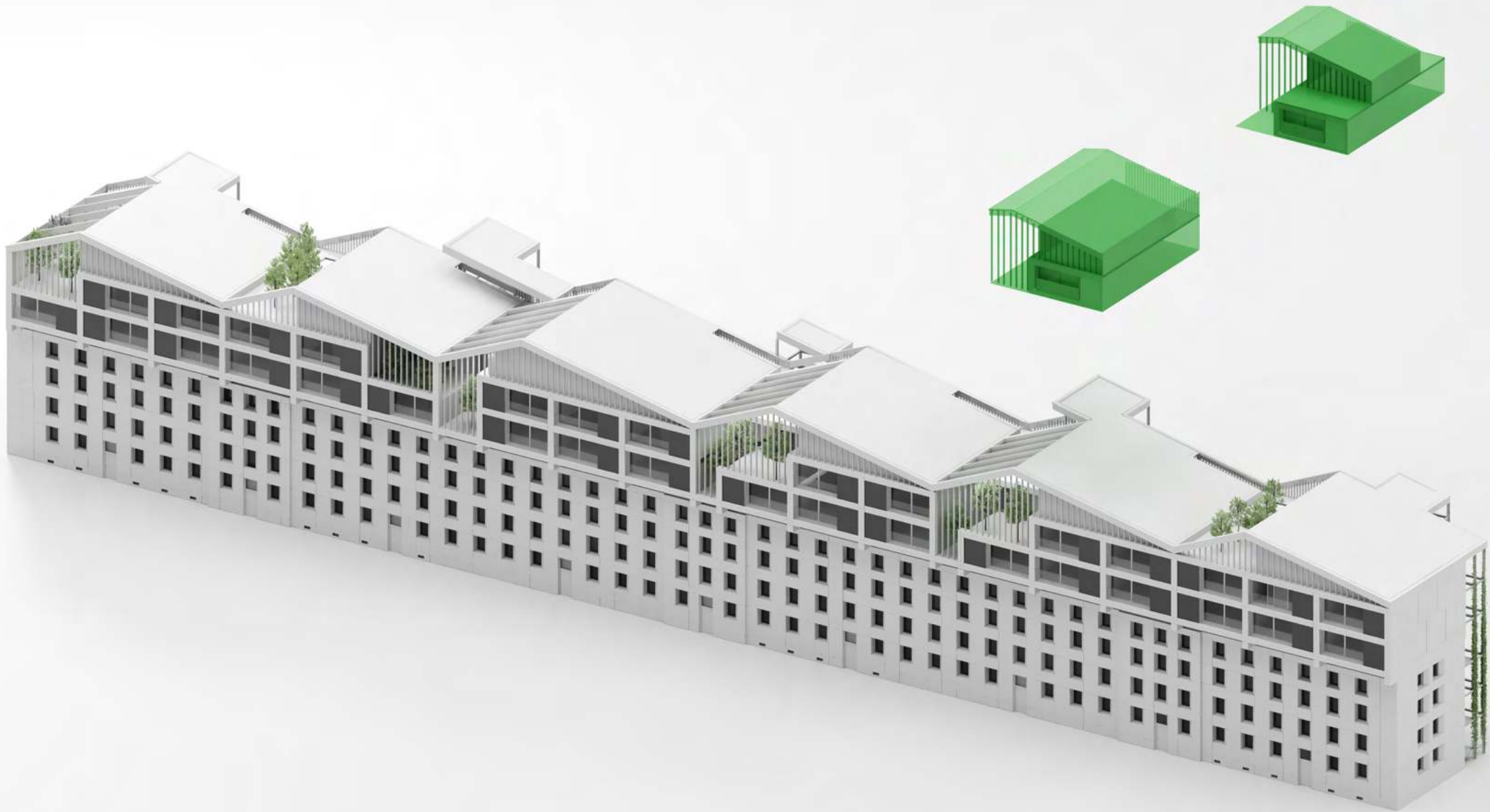
North Arrow

GE-21 General Abbreviations

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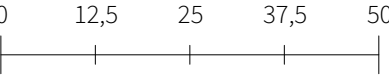


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Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT





General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
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Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
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Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

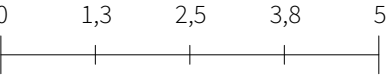


Scale 1:1000 Phase D#6

Drawing Content - HDU SDE21/22 Solar Campus Plan



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Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



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Phase

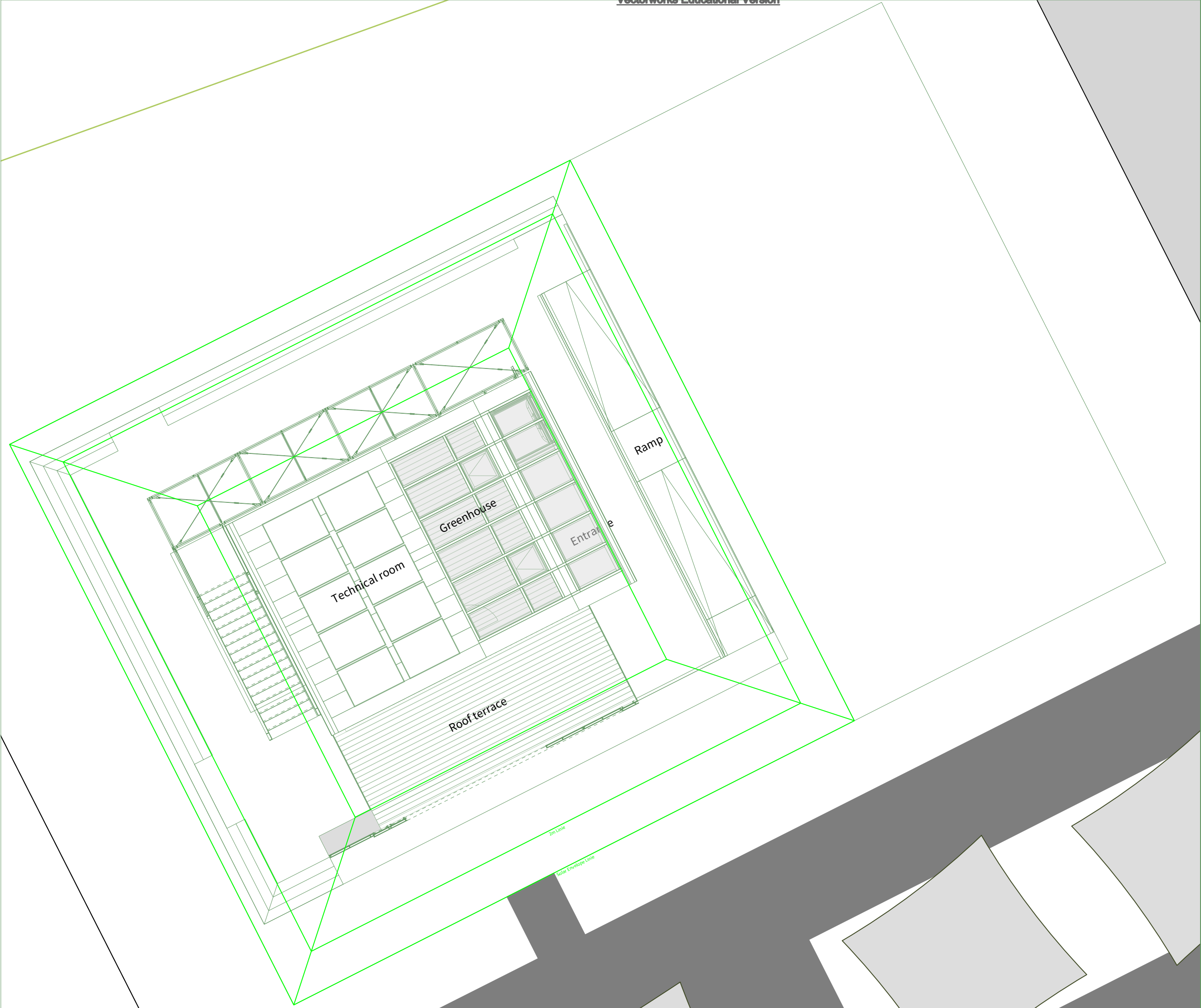
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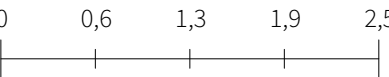
Site Plan

Solar Campus

AR-2001



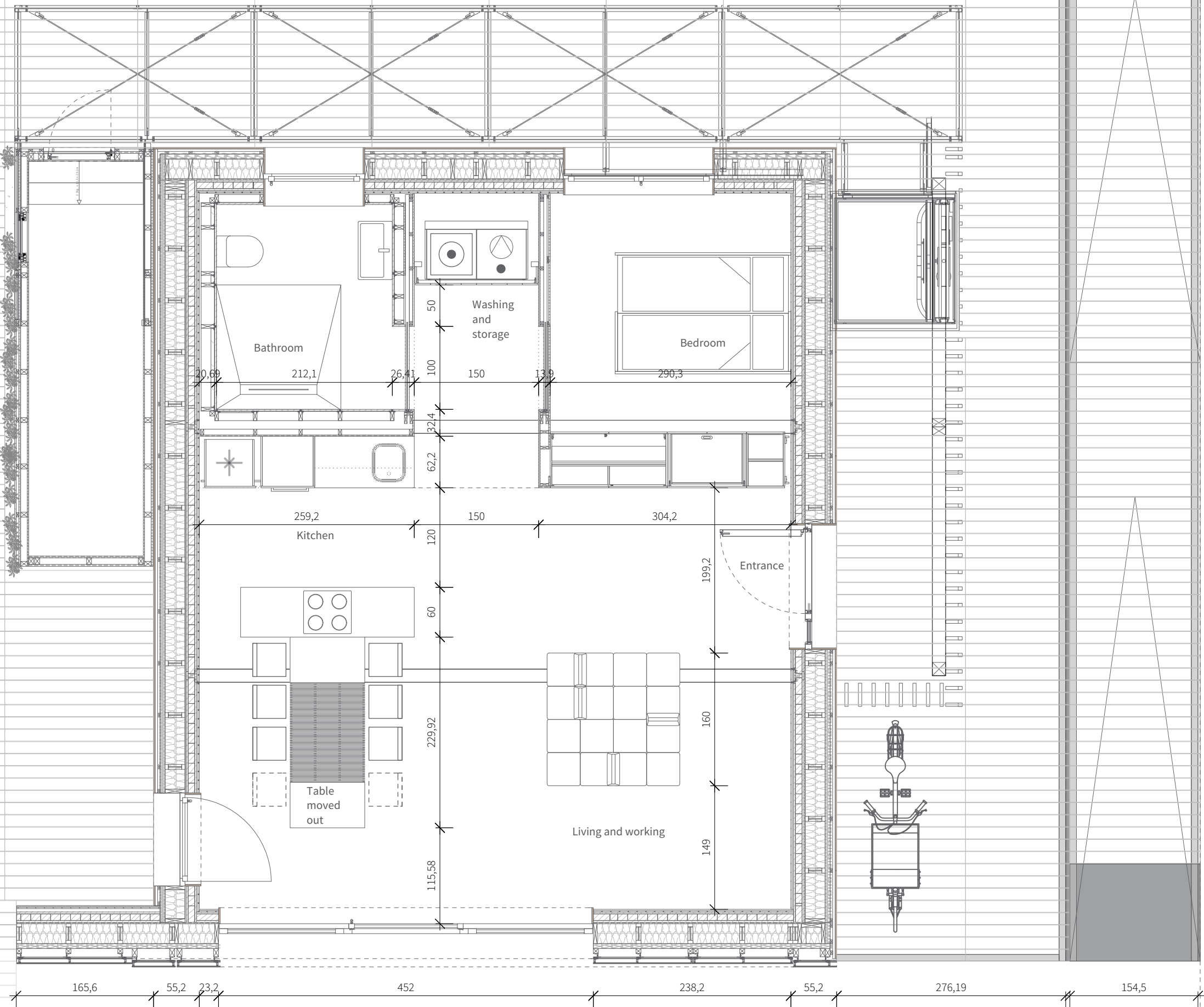
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Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



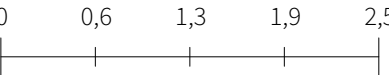
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Drawing Content - HDU
Floor Plan

AR-2101 



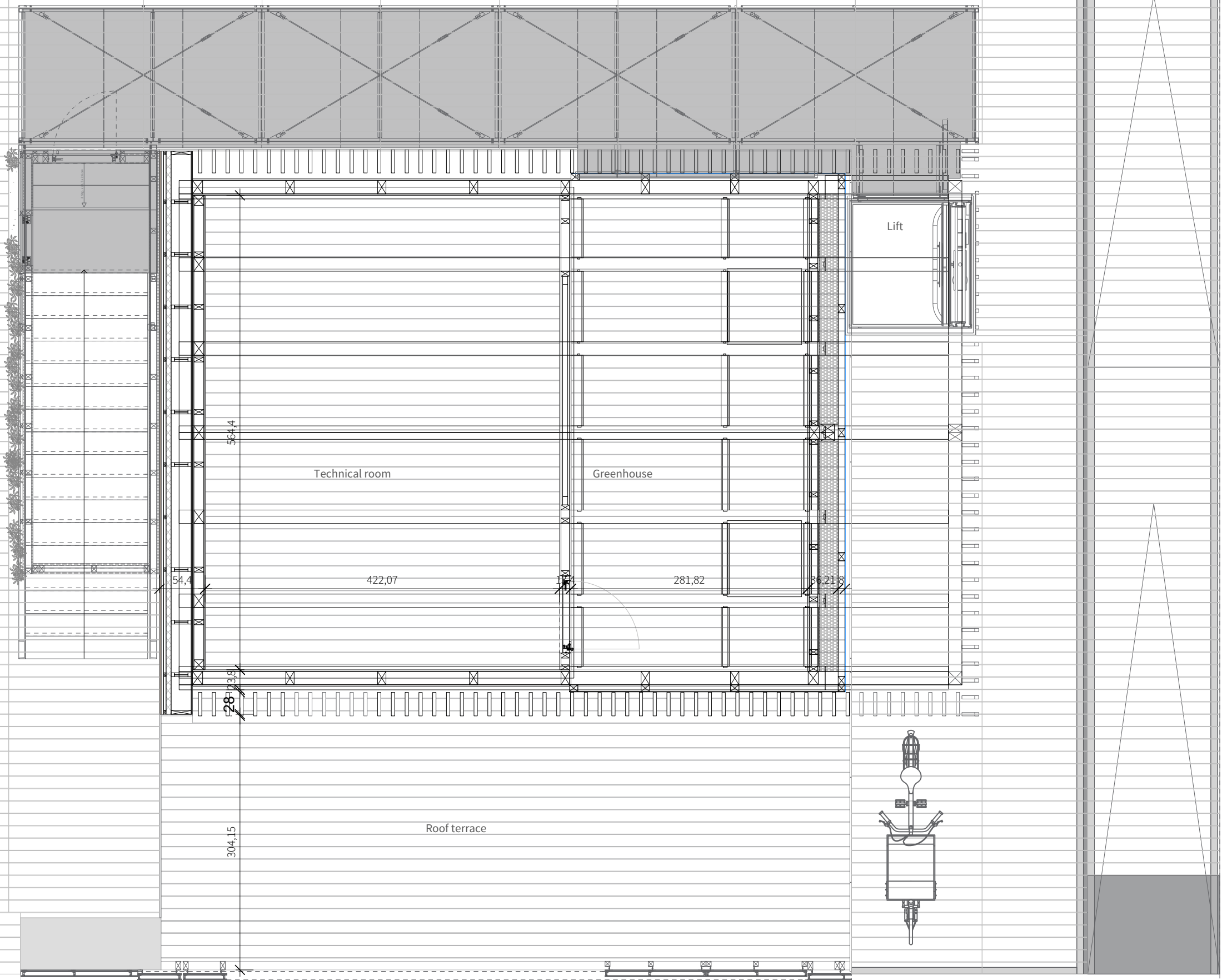
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Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

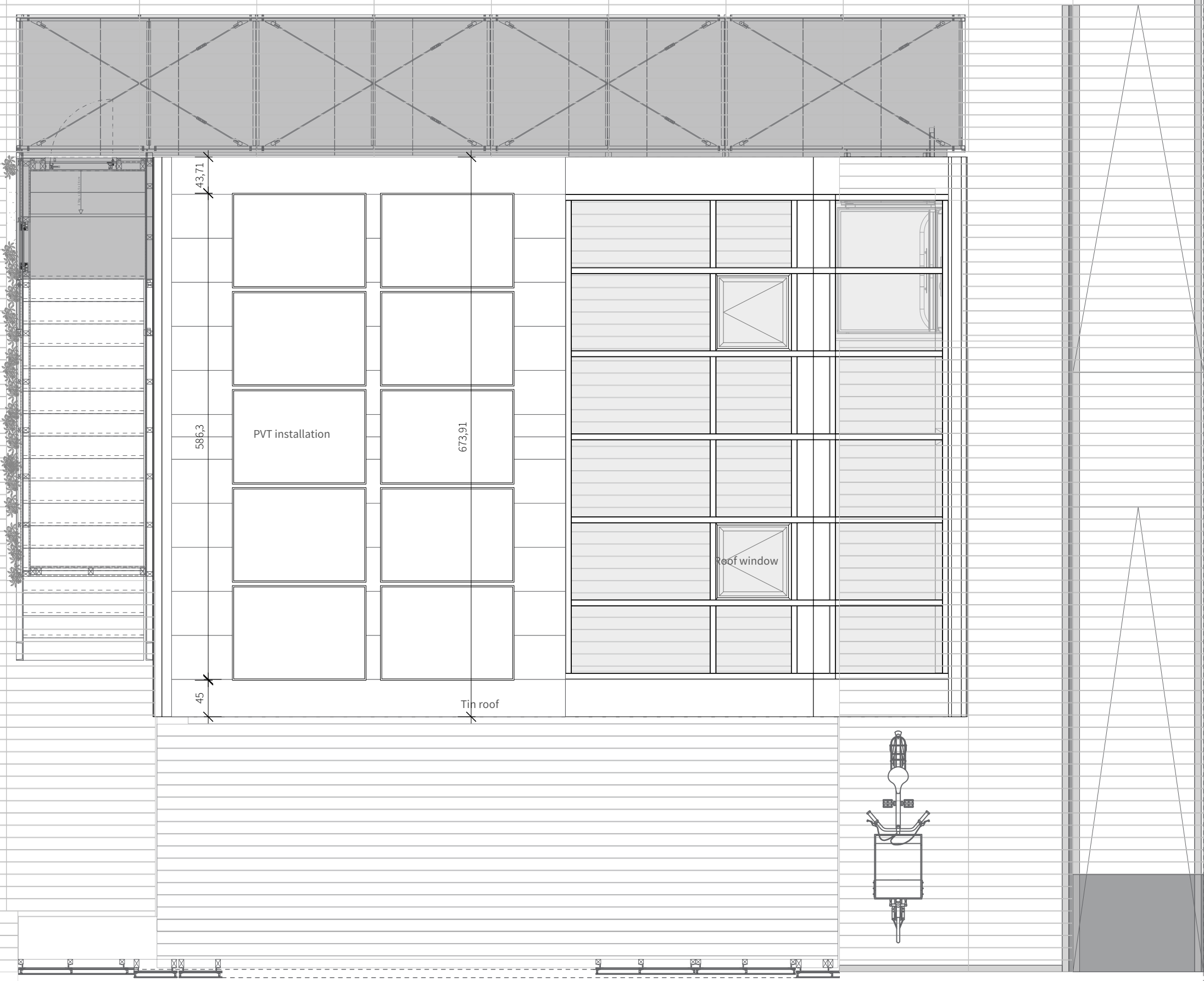


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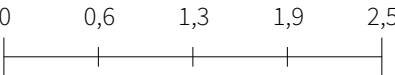
Drawing Content - HDU
Upper floor plan

AR-2102 





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Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



Scale

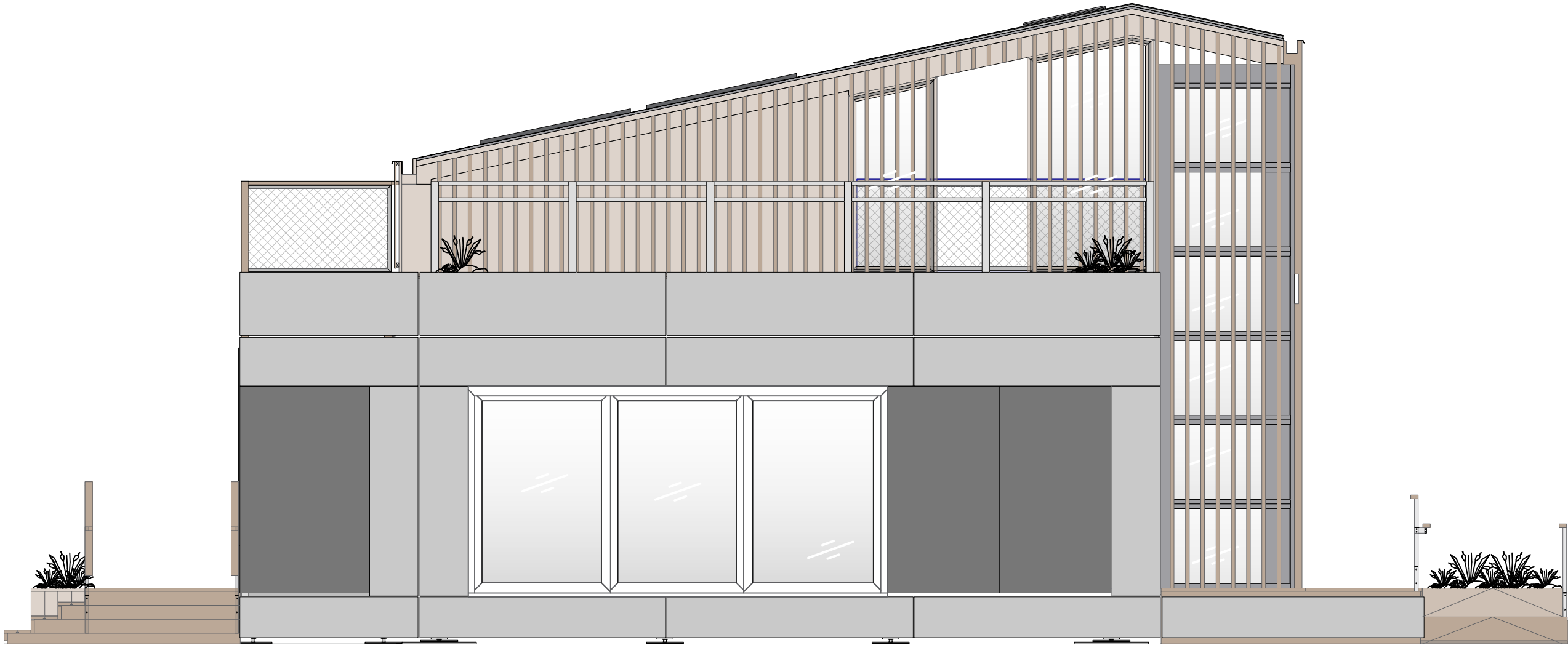
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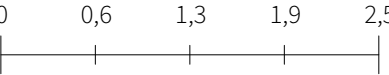
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Drawing Content - HDU

Roof Plan



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



Scale

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Phase

D#6

Drawing Content - HDU
Building Elevation
south

AR-2301

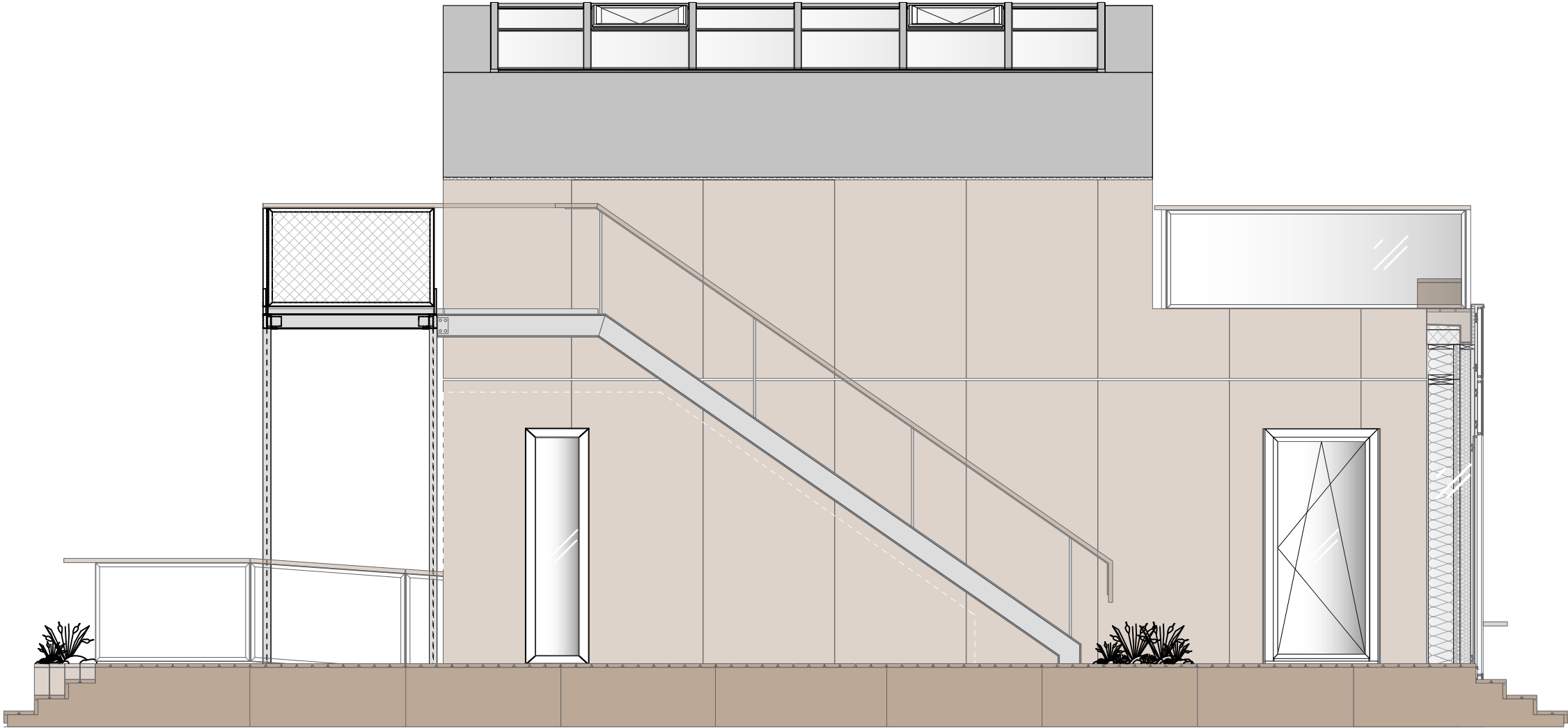
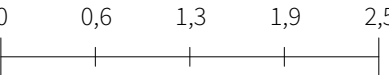


solar
decathlon
europe

21

WUPPERTAL GERMANY ...goes urban!

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



Scale

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Phase

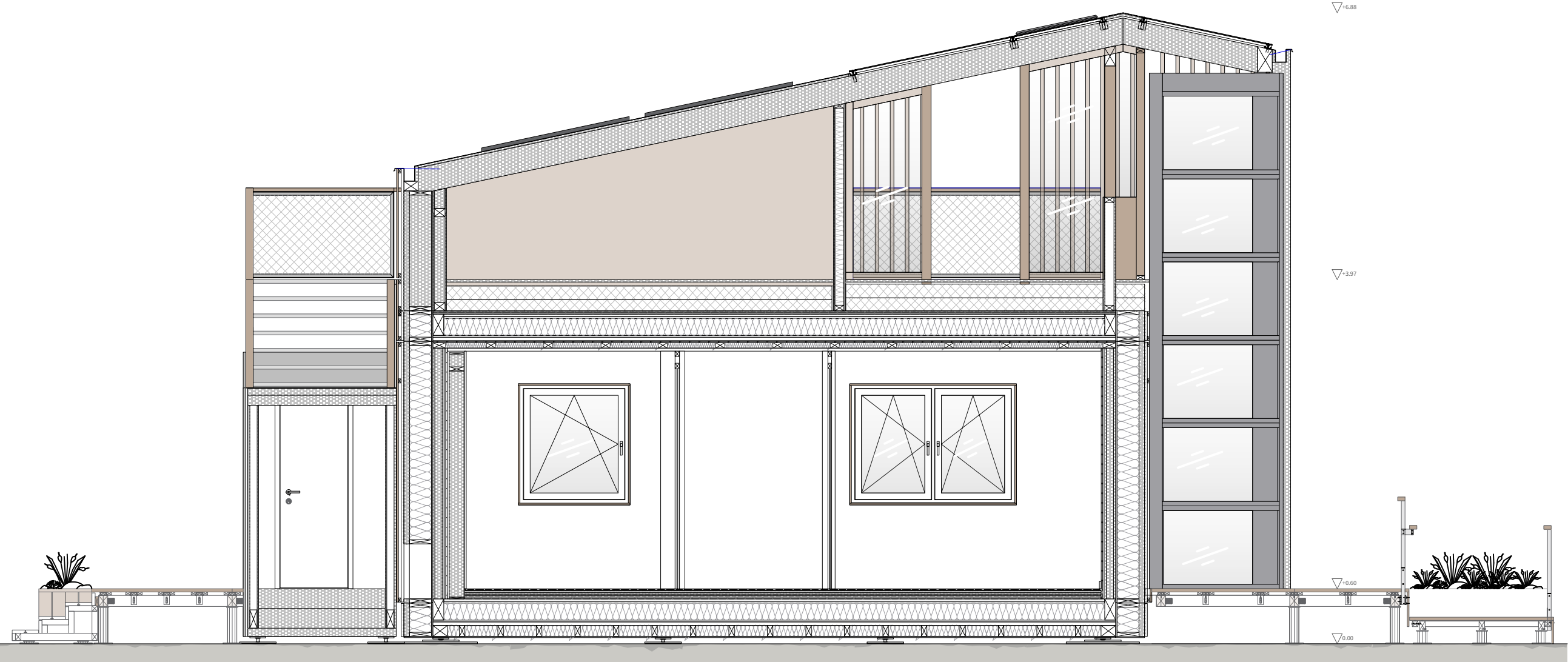
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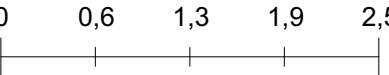
Building Elevation

wet

AR-2302



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Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



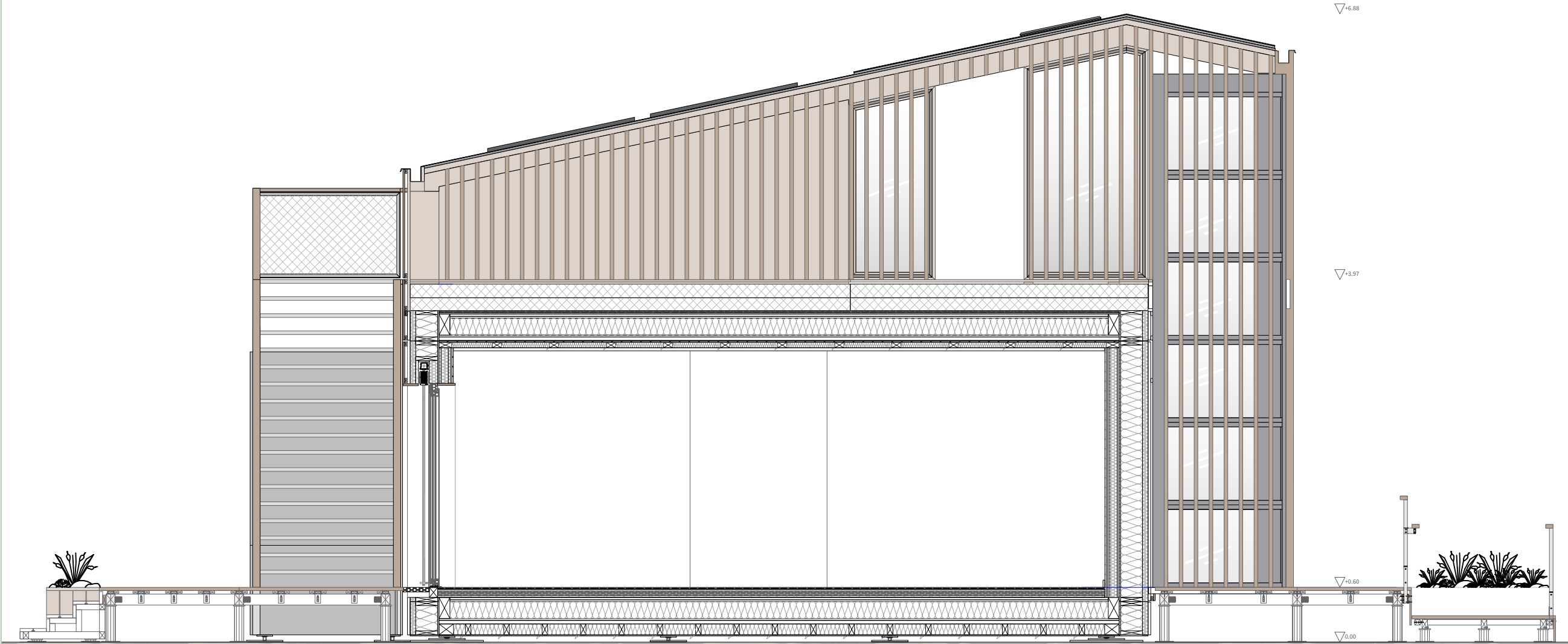
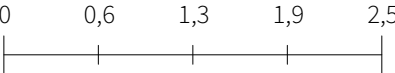
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Drawing Content - HDU
Building section
Section B-B

AR-2401



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Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
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Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



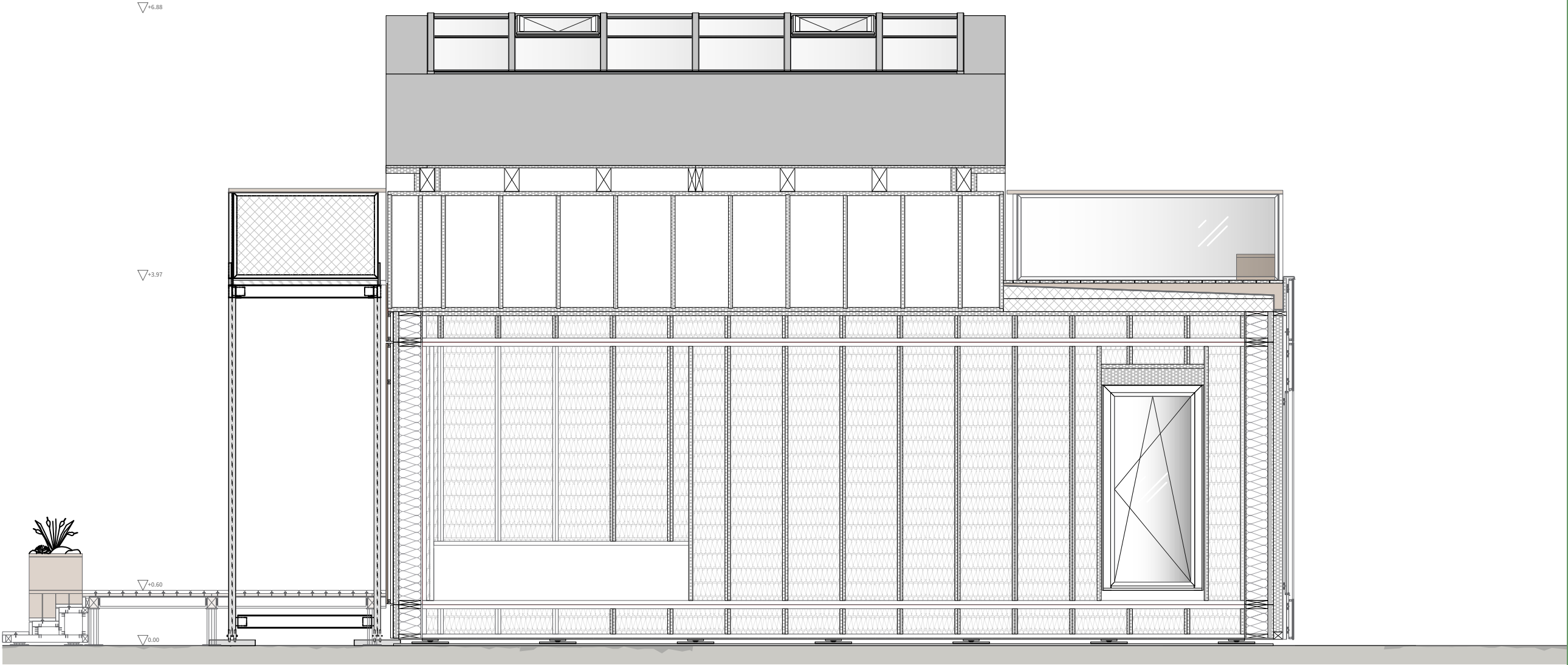
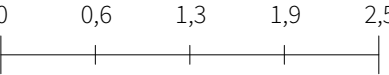
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Drawing Content - HDU
Building section
Section A-A

AR-2402



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
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Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



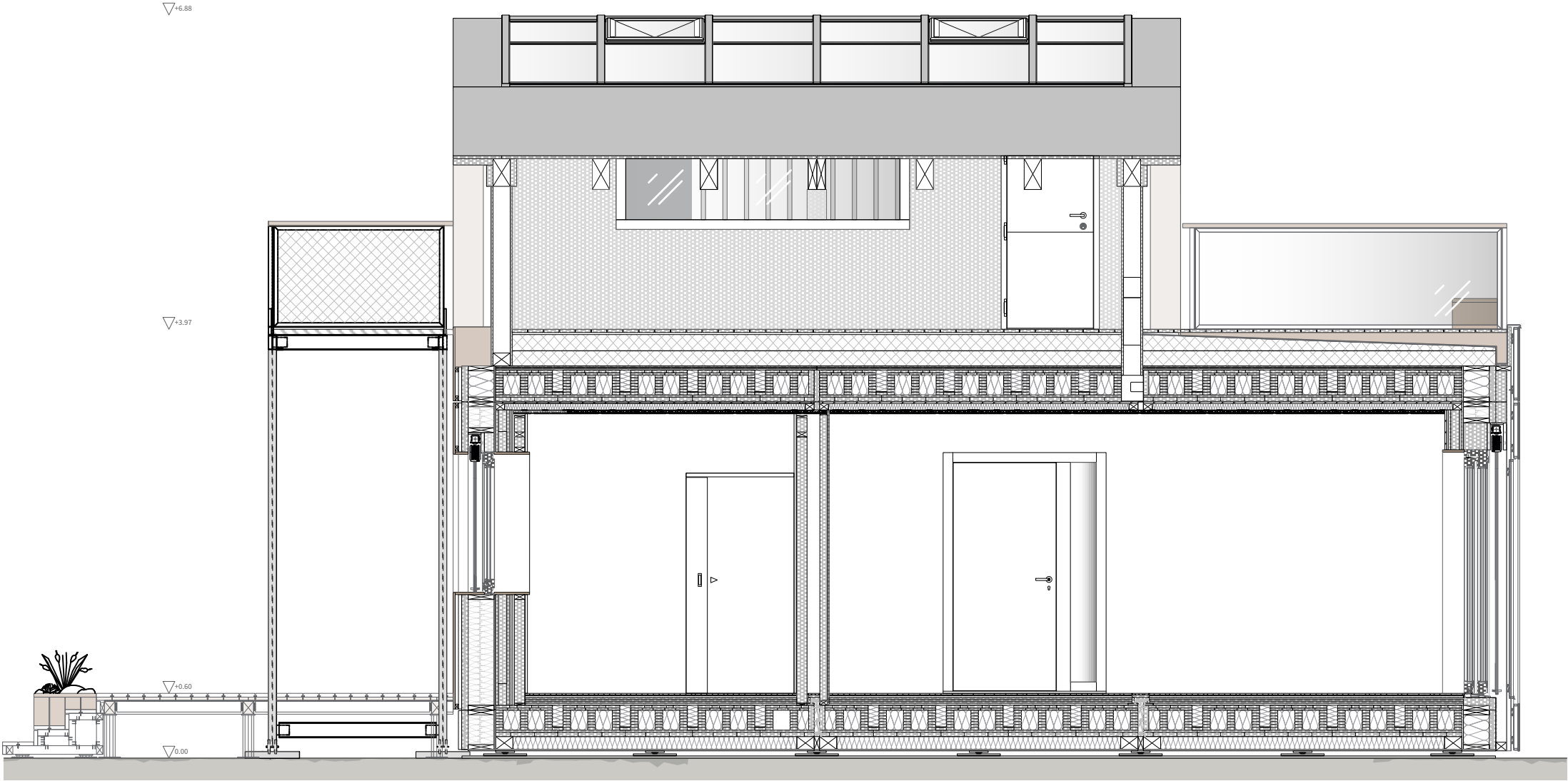
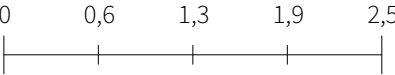
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Drawing Content - HDU
Building section
section 1-1

AR-2403



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
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Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



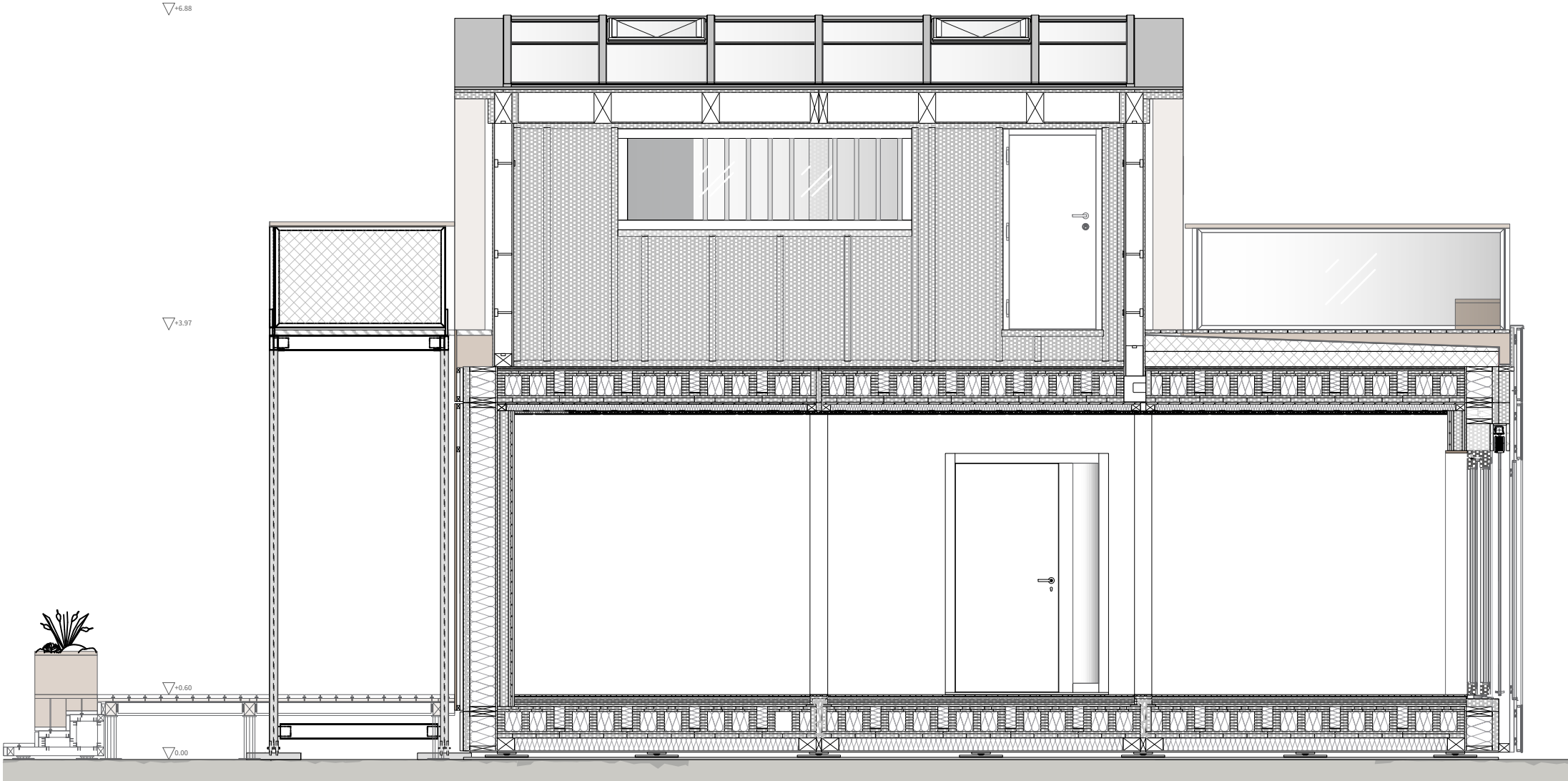
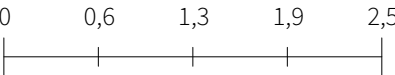
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Drawing Content - HDU
Building section
Section 2-2

AR-2204



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Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



Scale 1:50 Phase D#6

Drawing Content - HDU
Building section
section 3-3

AR-2405



General	GE
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Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
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Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
	D#6

Drawing Content
Exterior Rendering
Perspective top south-west view

AR-5001



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
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Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
	D#6

Drawing Content
Exterior Rendering
Perspective top south-east view

AR-5003



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
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Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



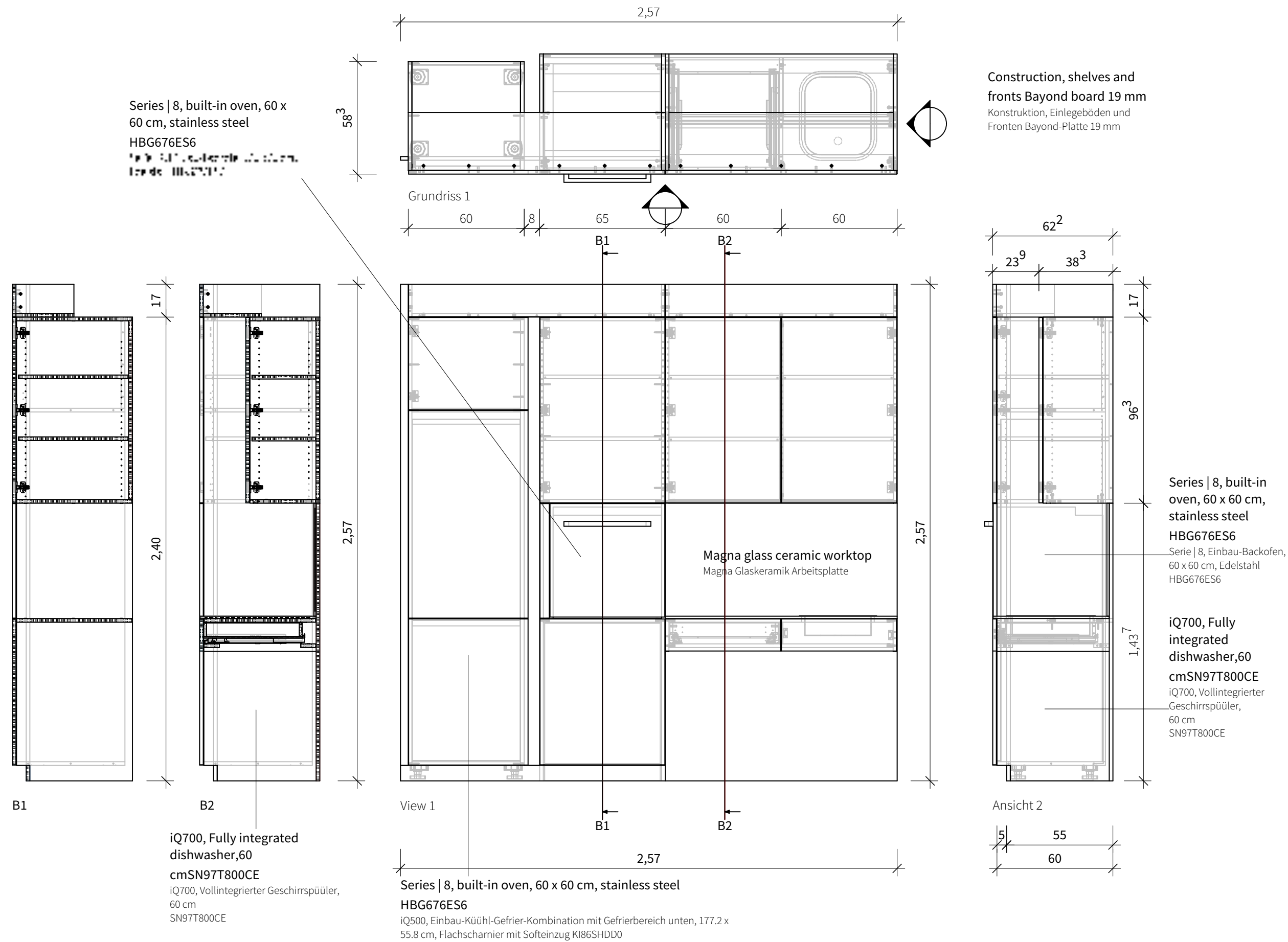
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Mechanical	ME
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Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



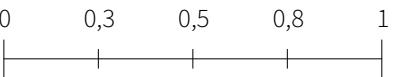
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Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

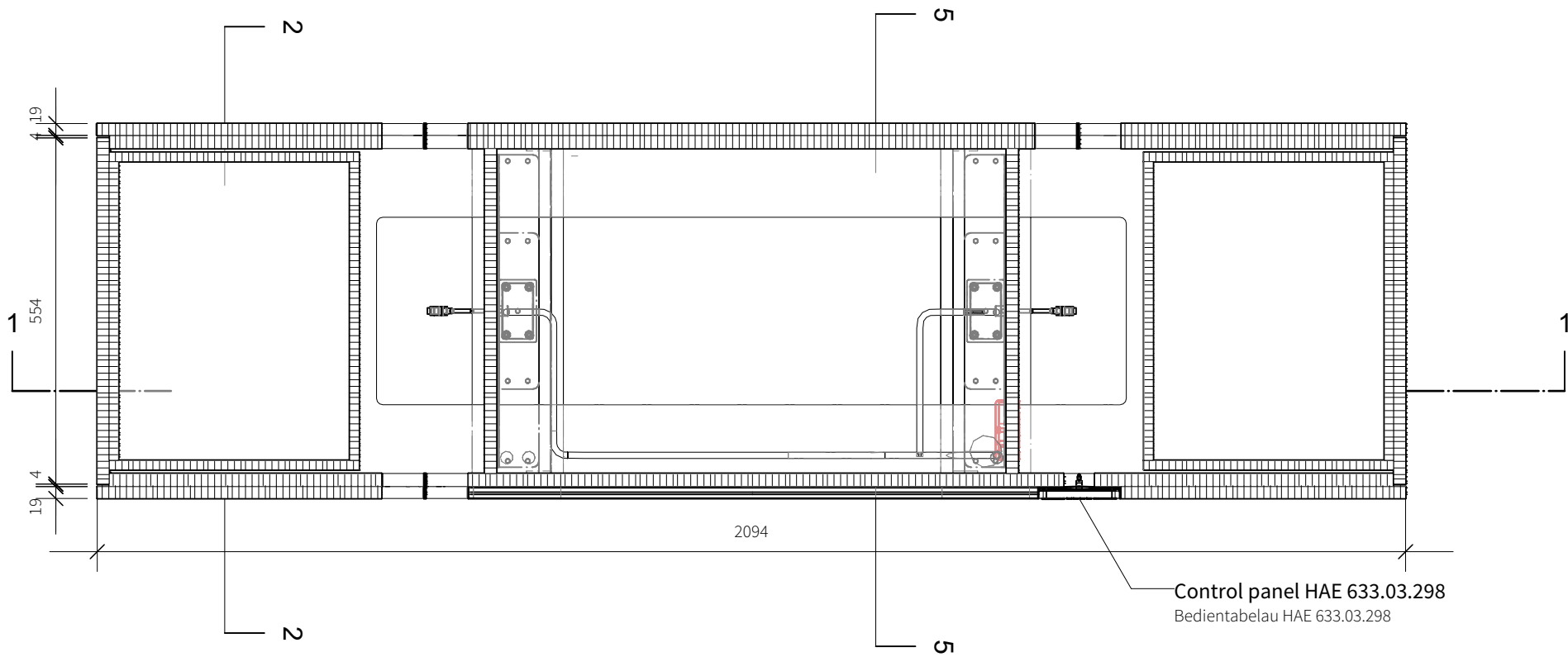
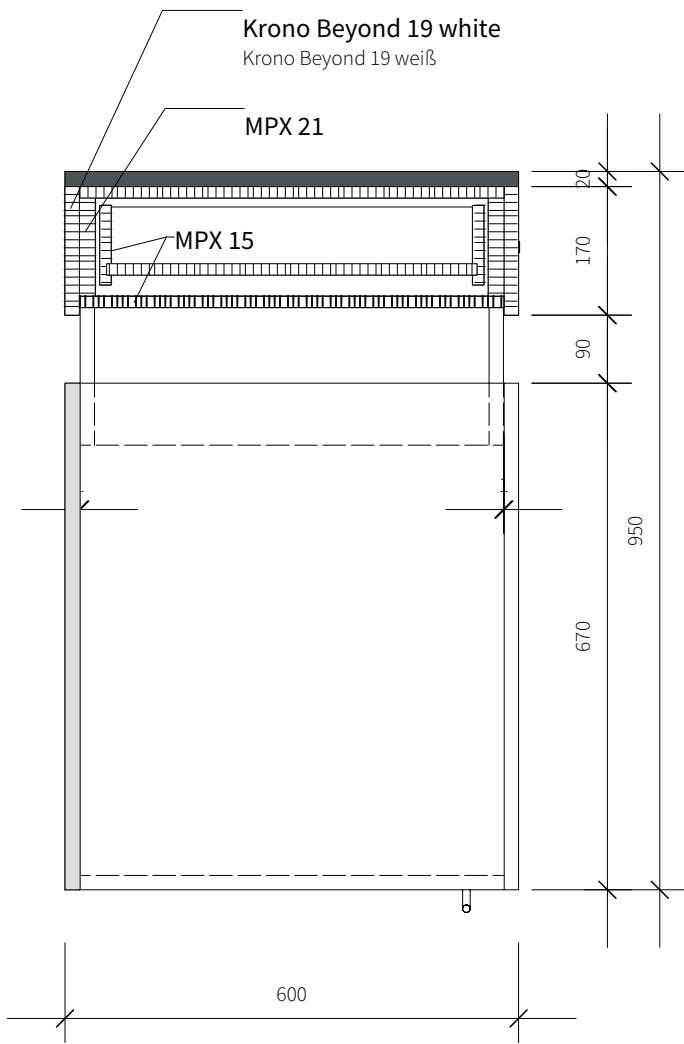
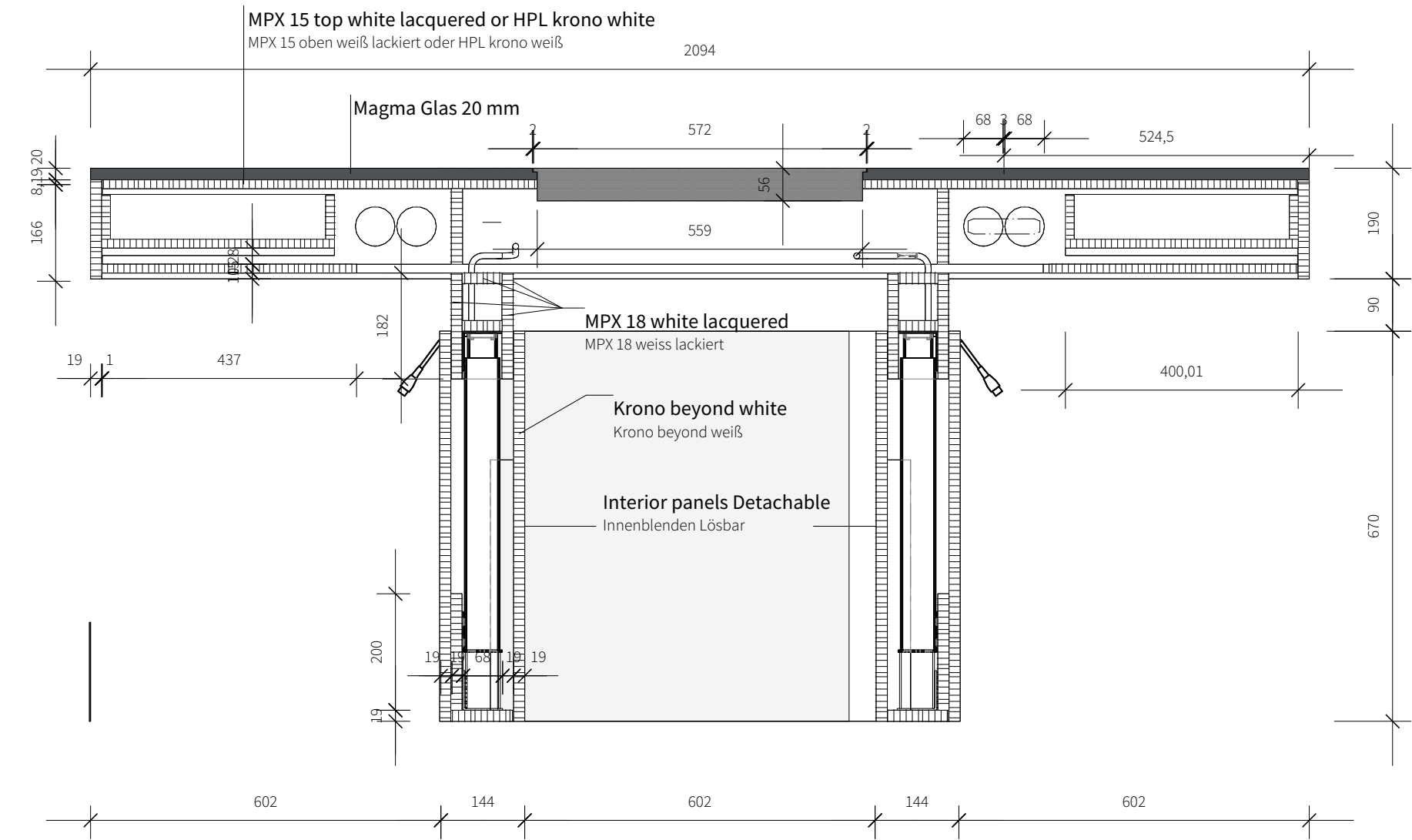
Interiors (IN)



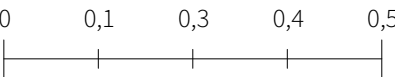


General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT





General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
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Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

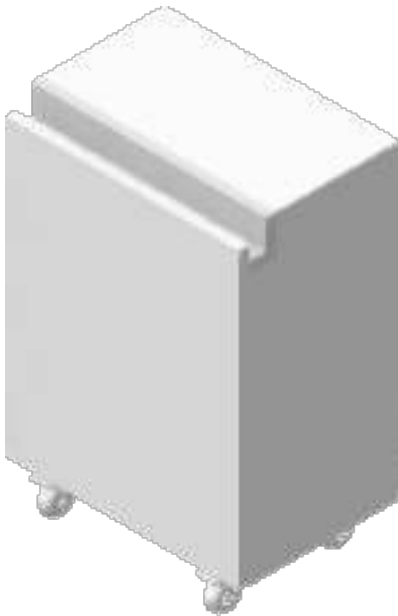
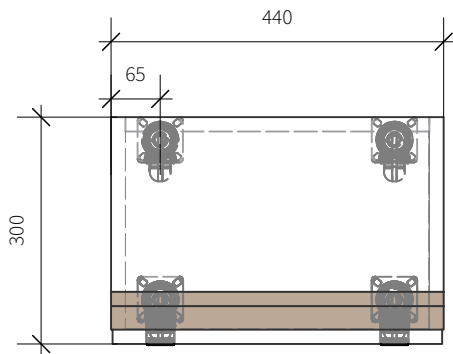
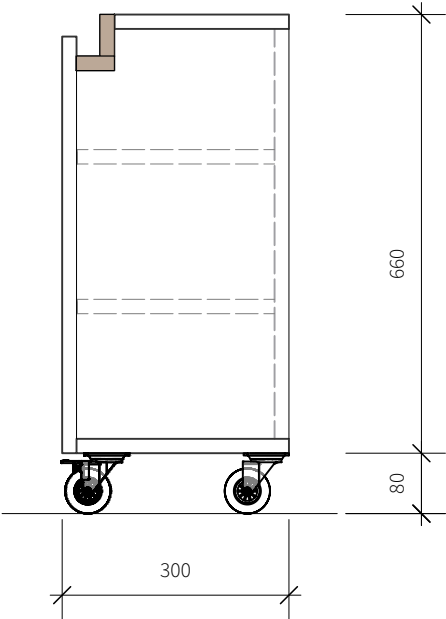
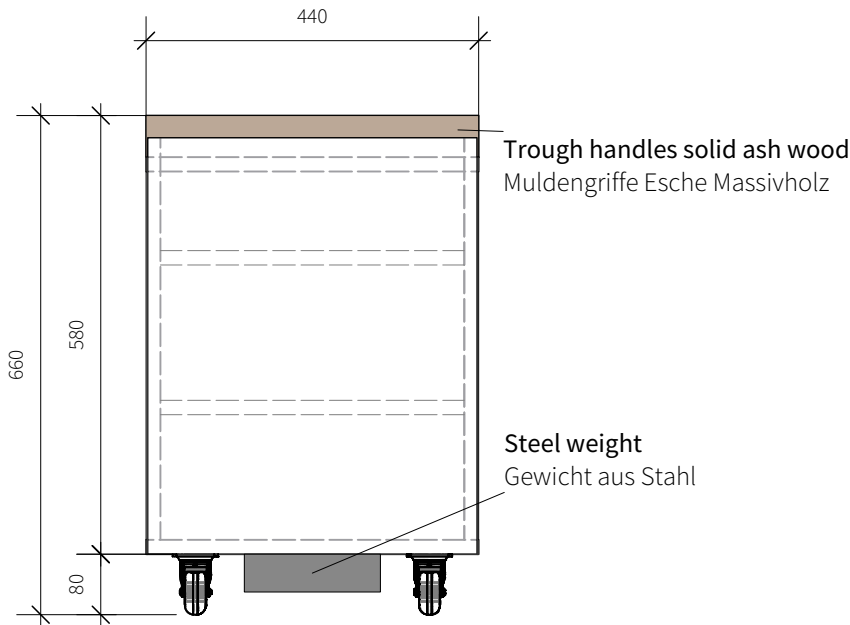


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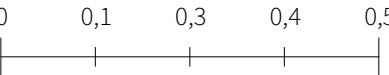
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Cooking island

IN-2201

Carcase, fronts and shelves Bayond board 19 mm
Korpus, Fronten und Einlegeböden Bayond-Platte 19 mm



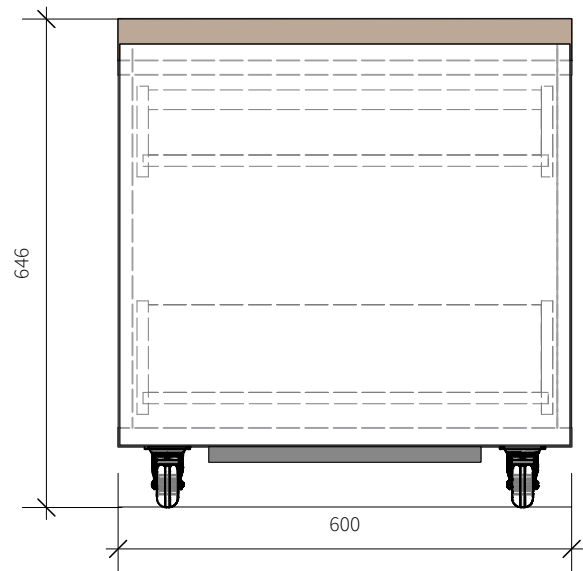
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Healthy & Safety	HS
Public Tour	PT



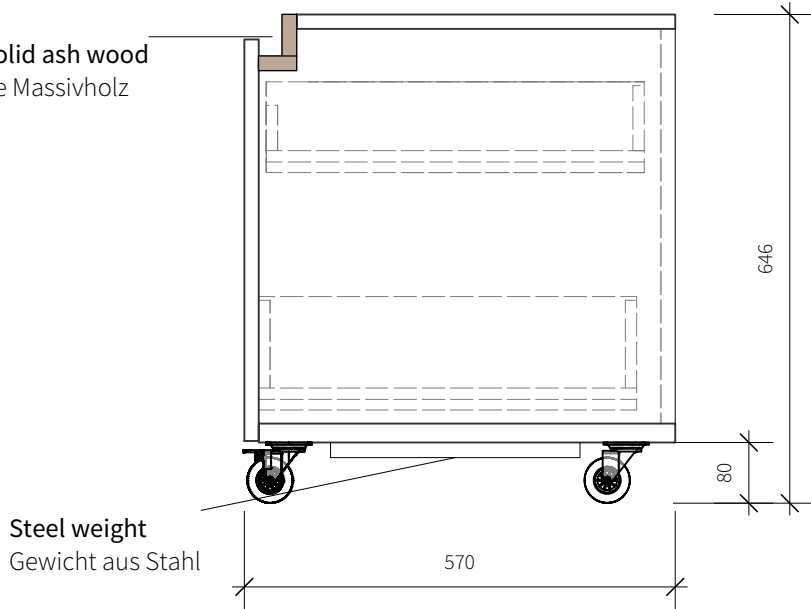
Scale 1:10 Phase D#6

Drawing Content - HDU
Container bedroom wardrobe and coat rack

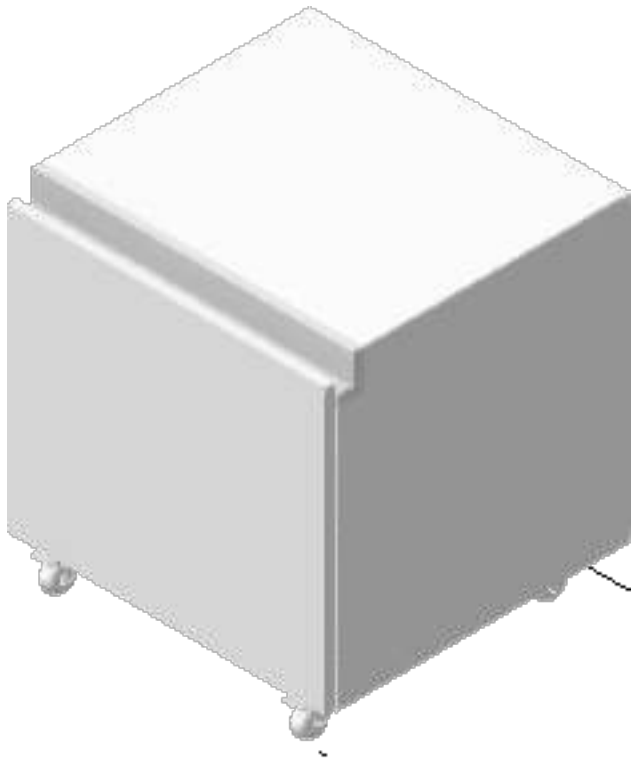
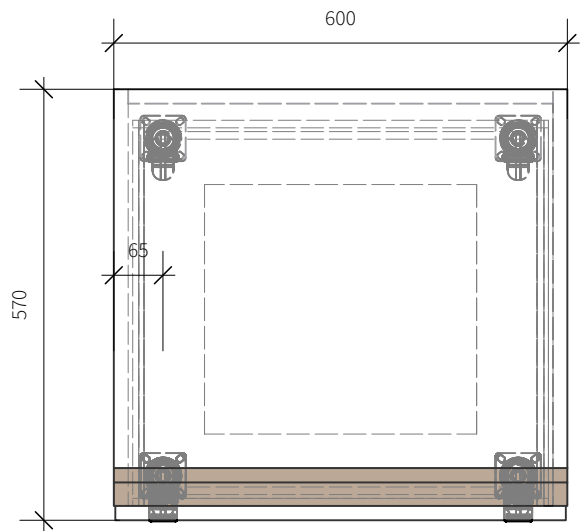
IN-2202



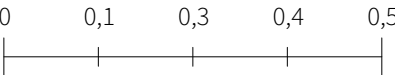
Trough handles solid ash wood
Muldengriffe Esche Massivholz



Carcase, fronts and shelves Bayond board 19 mm
Korpus, Fronten und Einlegeböden Bayond-Platte 19 mm



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

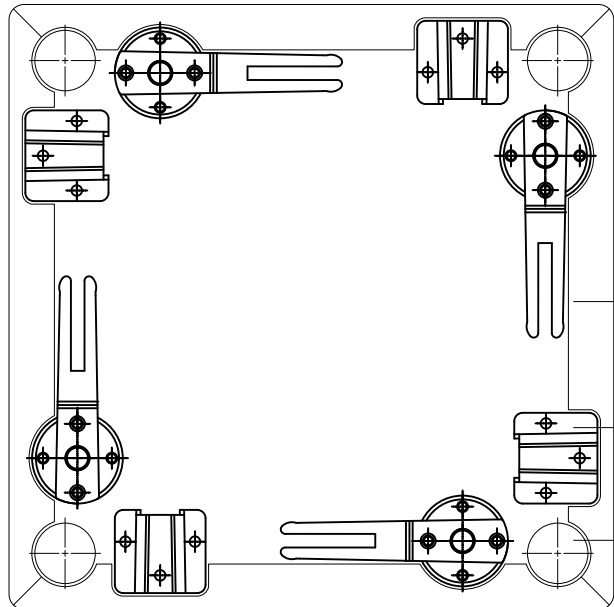
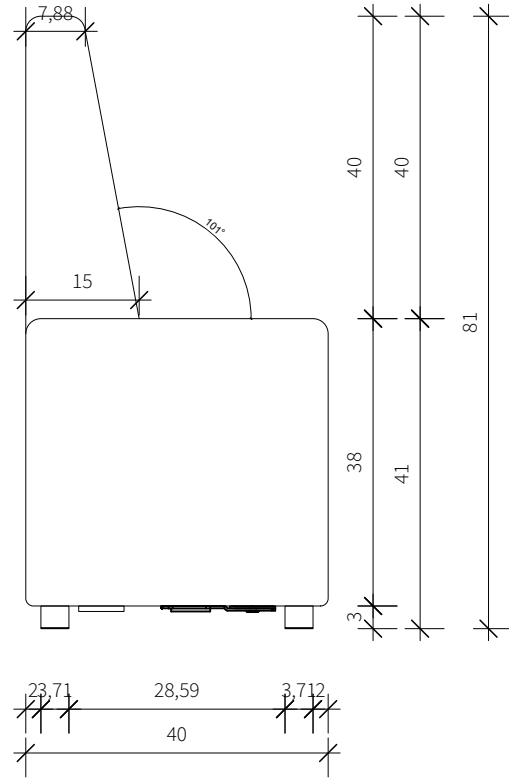
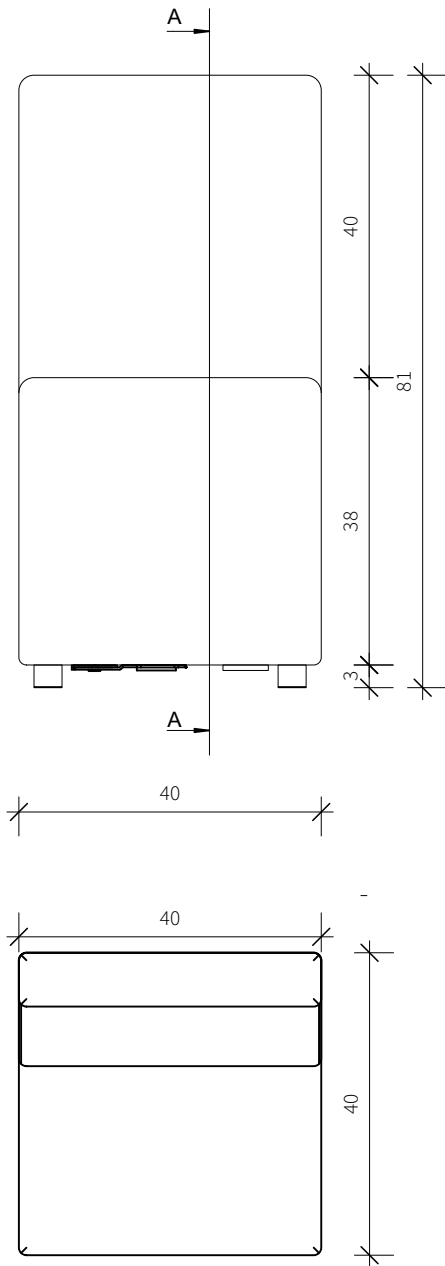
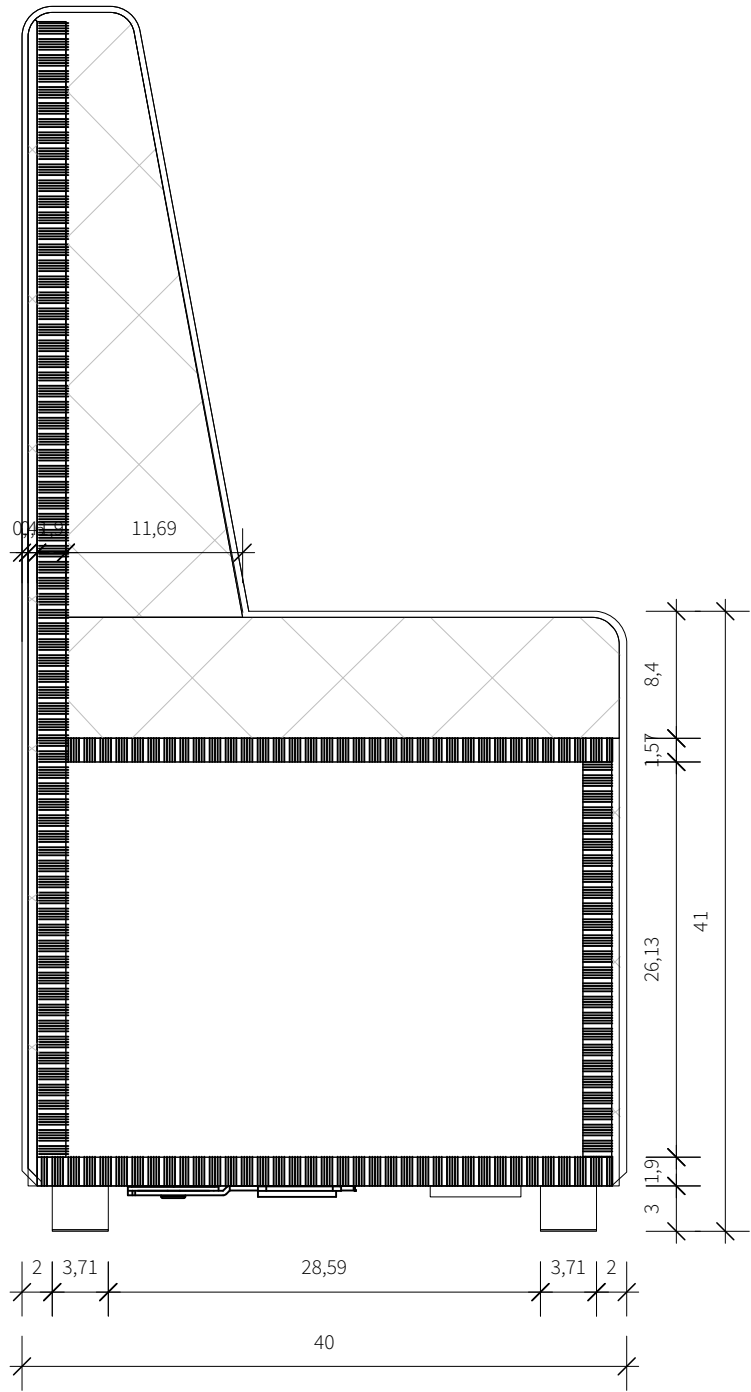


Scale 1:10 Phase D#6

Drawing Content - HDU
Container Kitchen

IN-2203





Fabric removable with press studs
Stoff mit Druckknöpfen abnehmbar

Häfele table top connectors
Häfele Tischplattenverbinder

Solid wood feet with felt glides
Massivholzfüße mit Filzgleiter



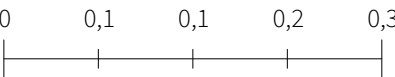
Cover fabric Backrest
Bezugsstoff Lehne
Manufacturer: Sonnhaus
Collection: 310 Pianino
MOE.POMEZIA 310061/140 UNI
SALBEI



Cover fabric carcass
Bezugsstoff Korpus
Manufacturer: Sonnhaus
Collection: 310 Pianino
MOE.POMEZIA 310074/140 UNI
MINT



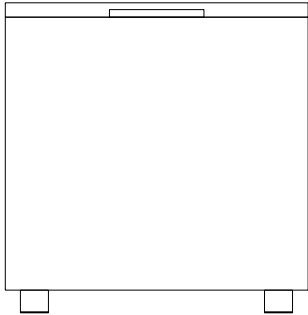
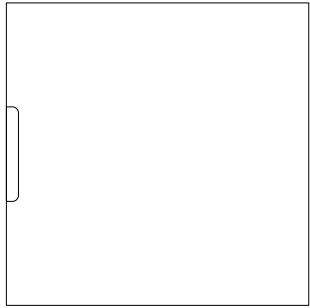
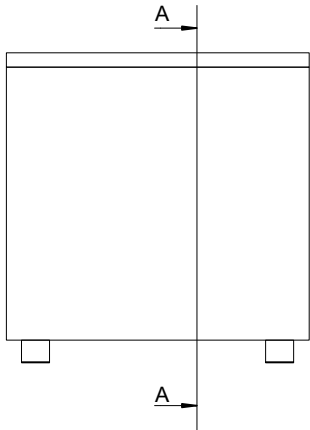
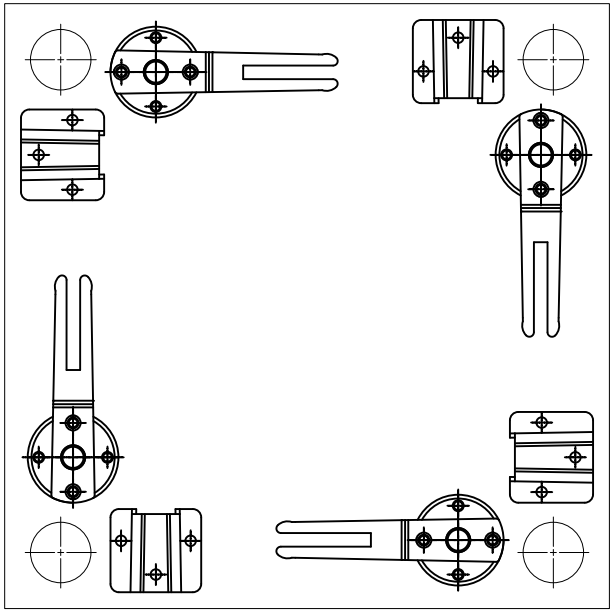
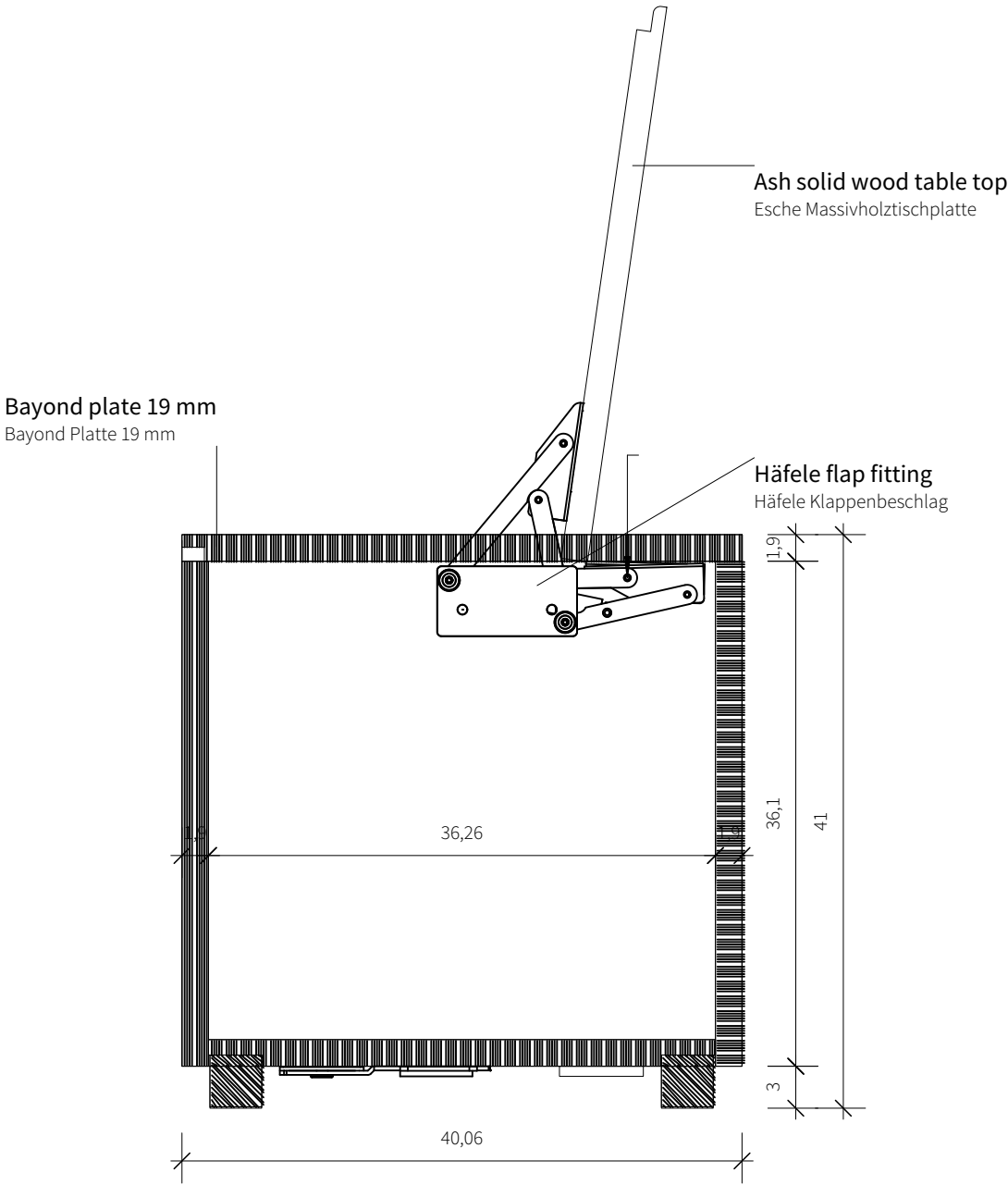
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



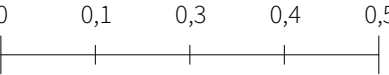
Scale 1:5, 1:10 Phase D#6

Drawing Content - HDU
Furnishing
Upholstered element with backrest

IN-4001



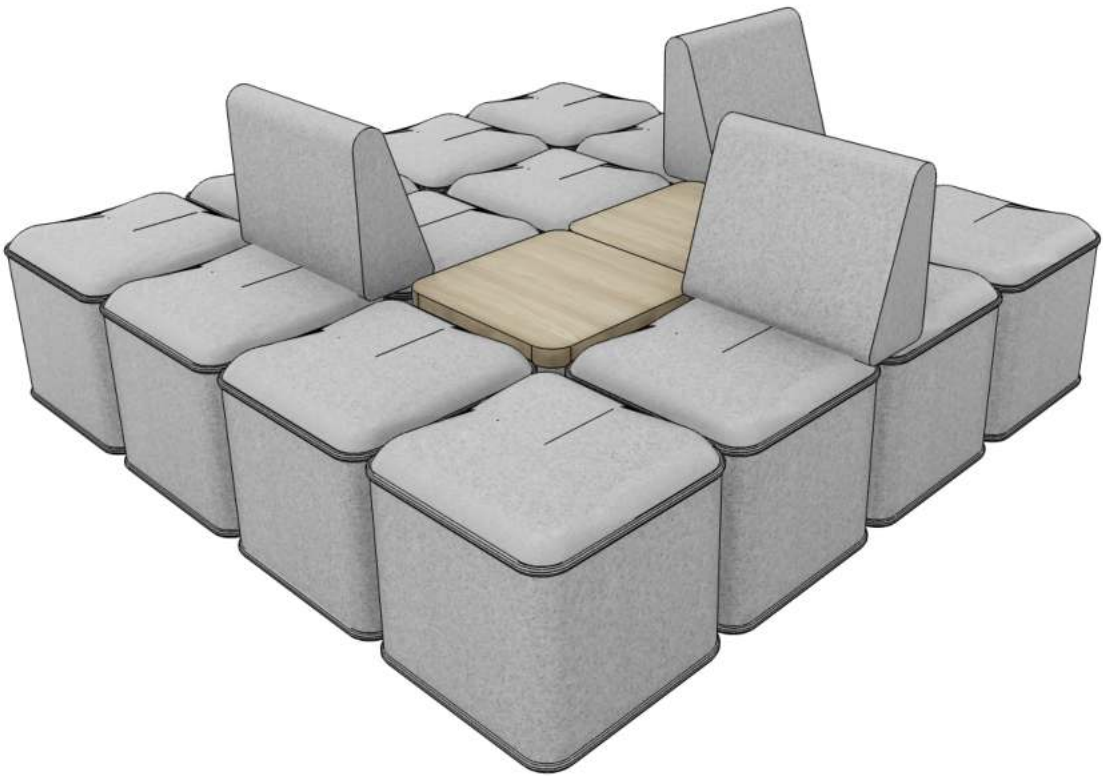
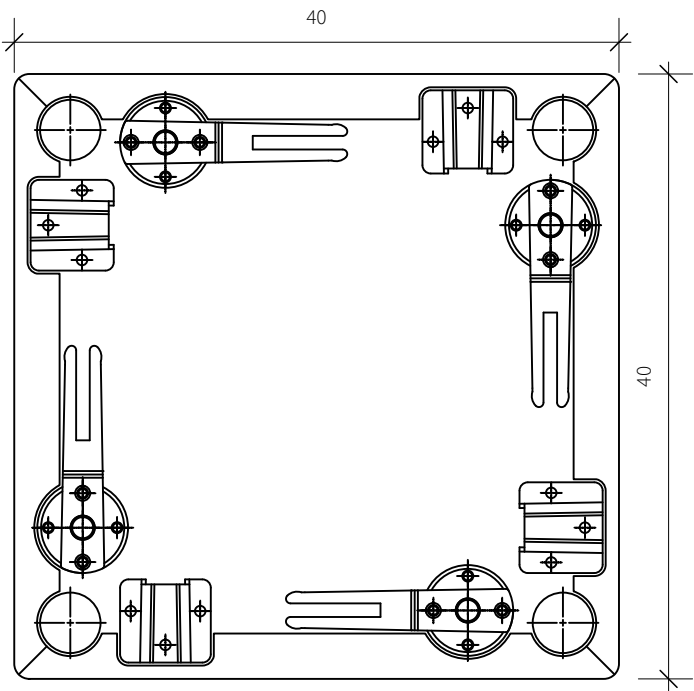
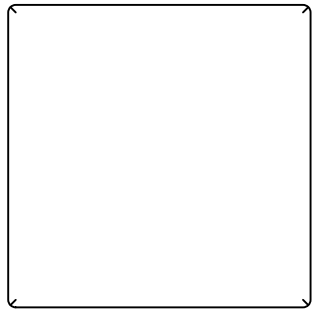
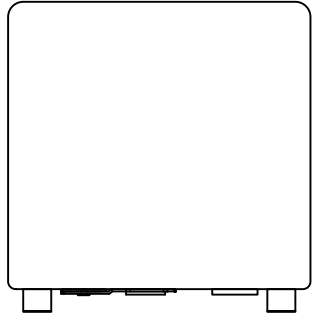
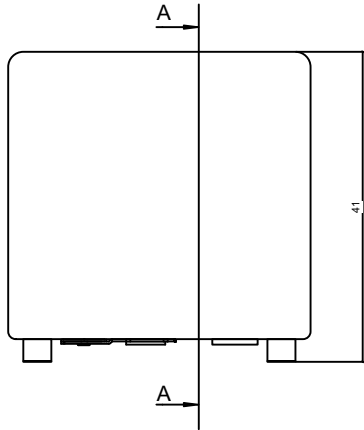
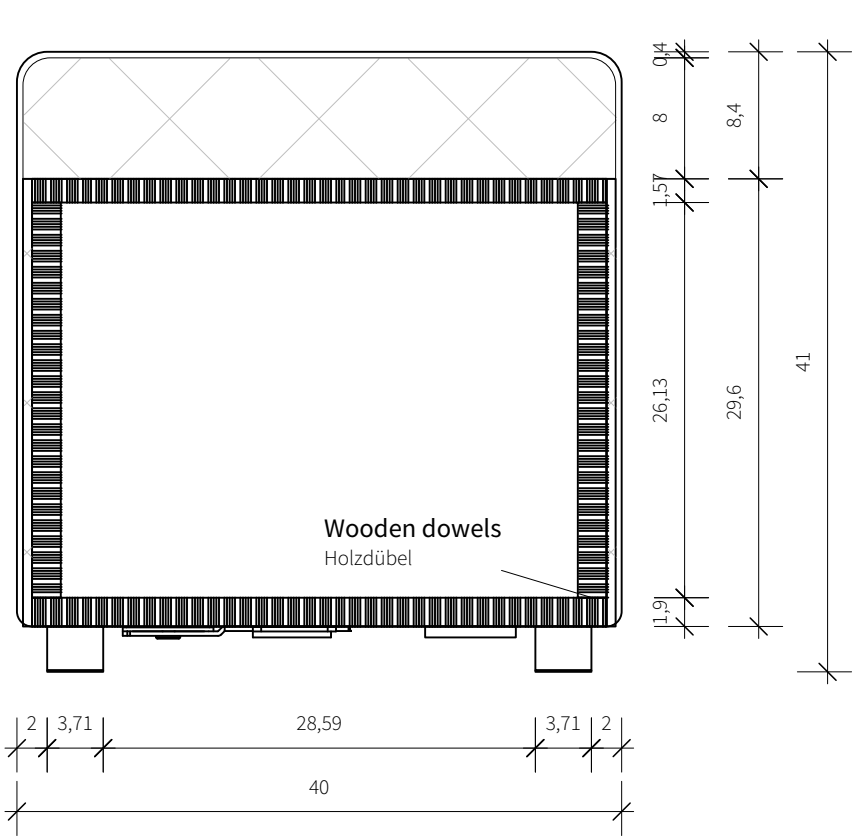
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



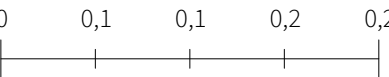
Scale 1:5 Phase D#6

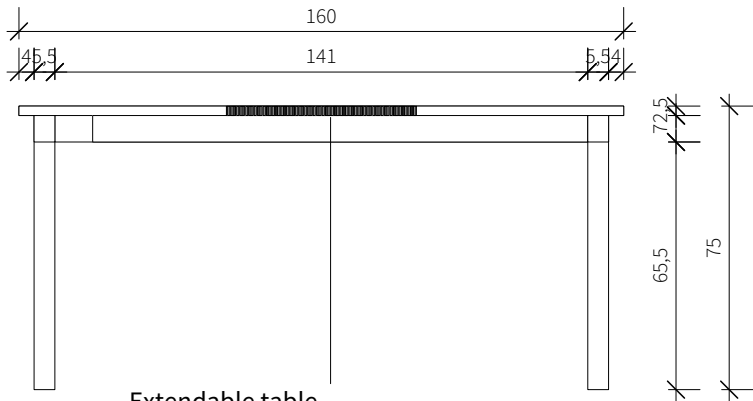
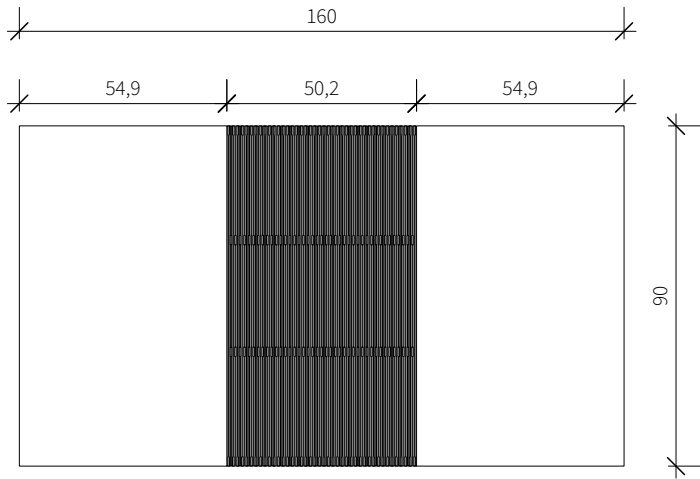
Drawing Content - HDU
Furnishing
Couch element table

IN-4002

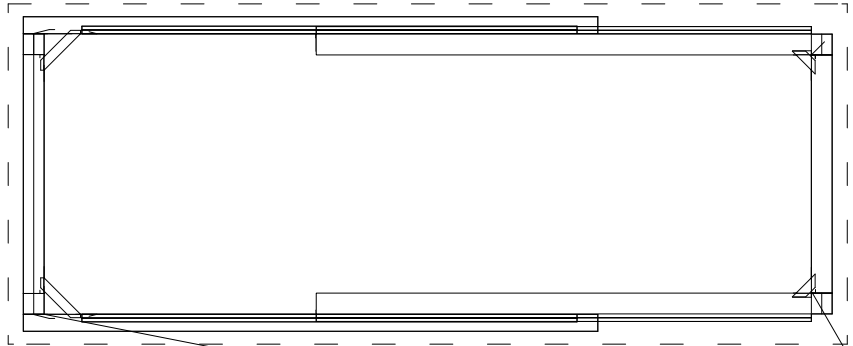
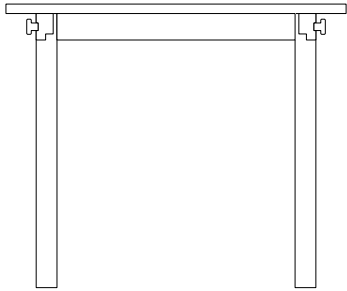
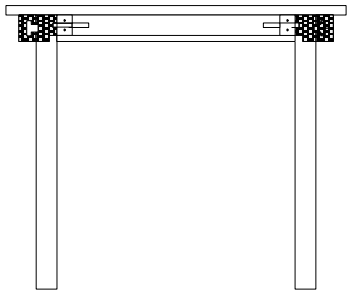
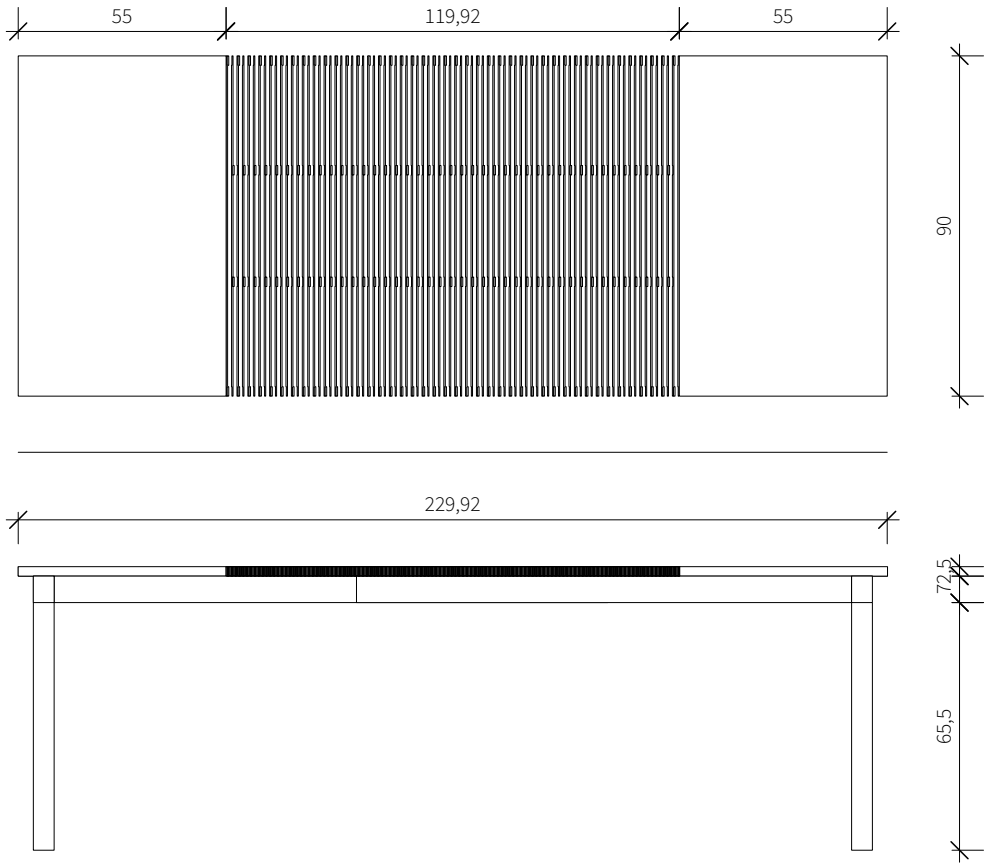


General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT





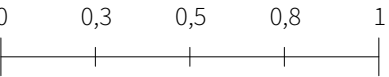
Extendable table
ausziehbarer Tisch



Ash solid wood table, glue-free and metal-free connection
Esche Massivholztisch, leimfreie und metallfreie Verbindung



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

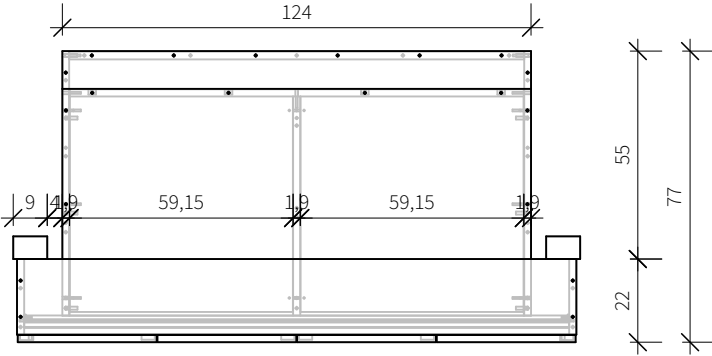


Scale 1:20 Phase D#6

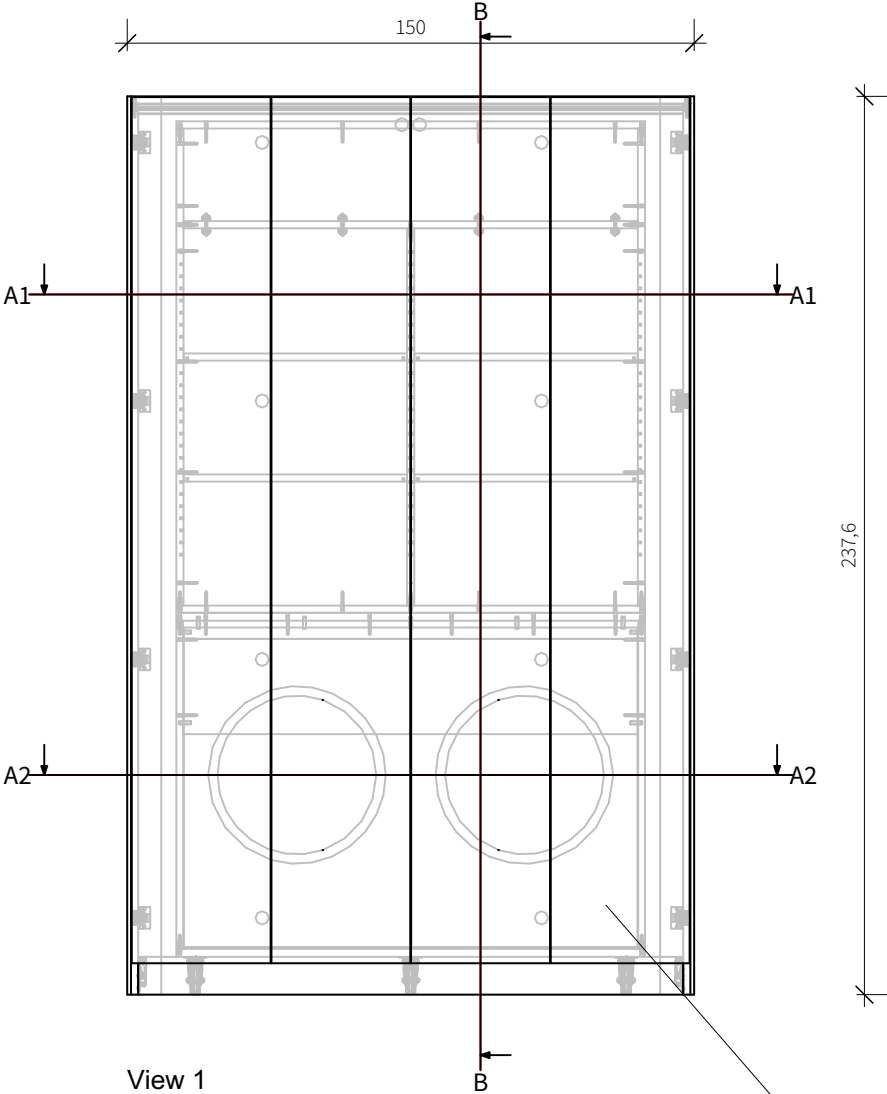
Drawing Content - HDU
Furnishing
Dining table

IN-4004

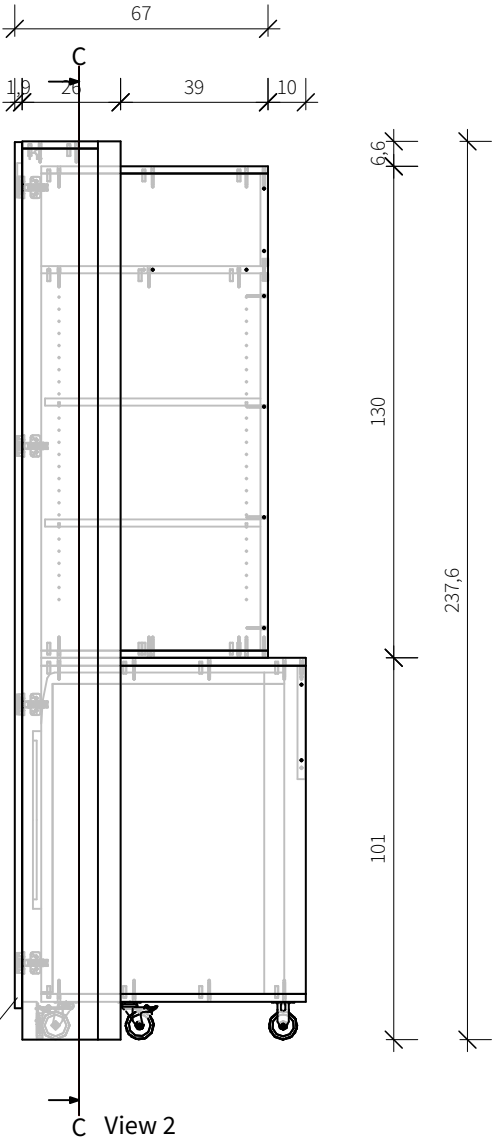




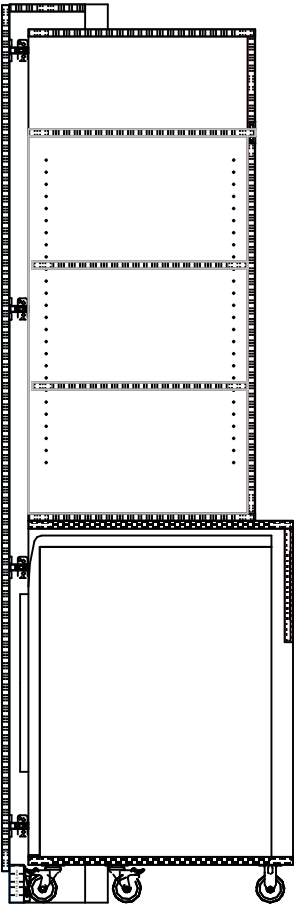
floor plan 150



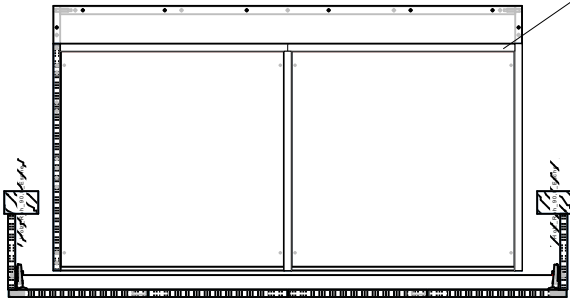
View 1



View 2



Section B-B

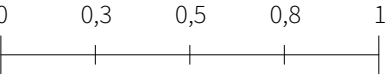


A1

Bayond plate
Bayond Platte



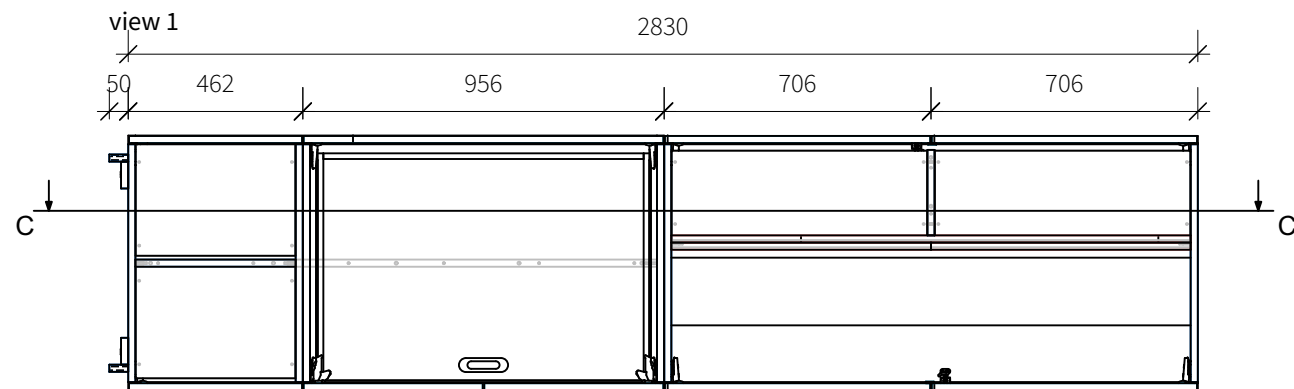
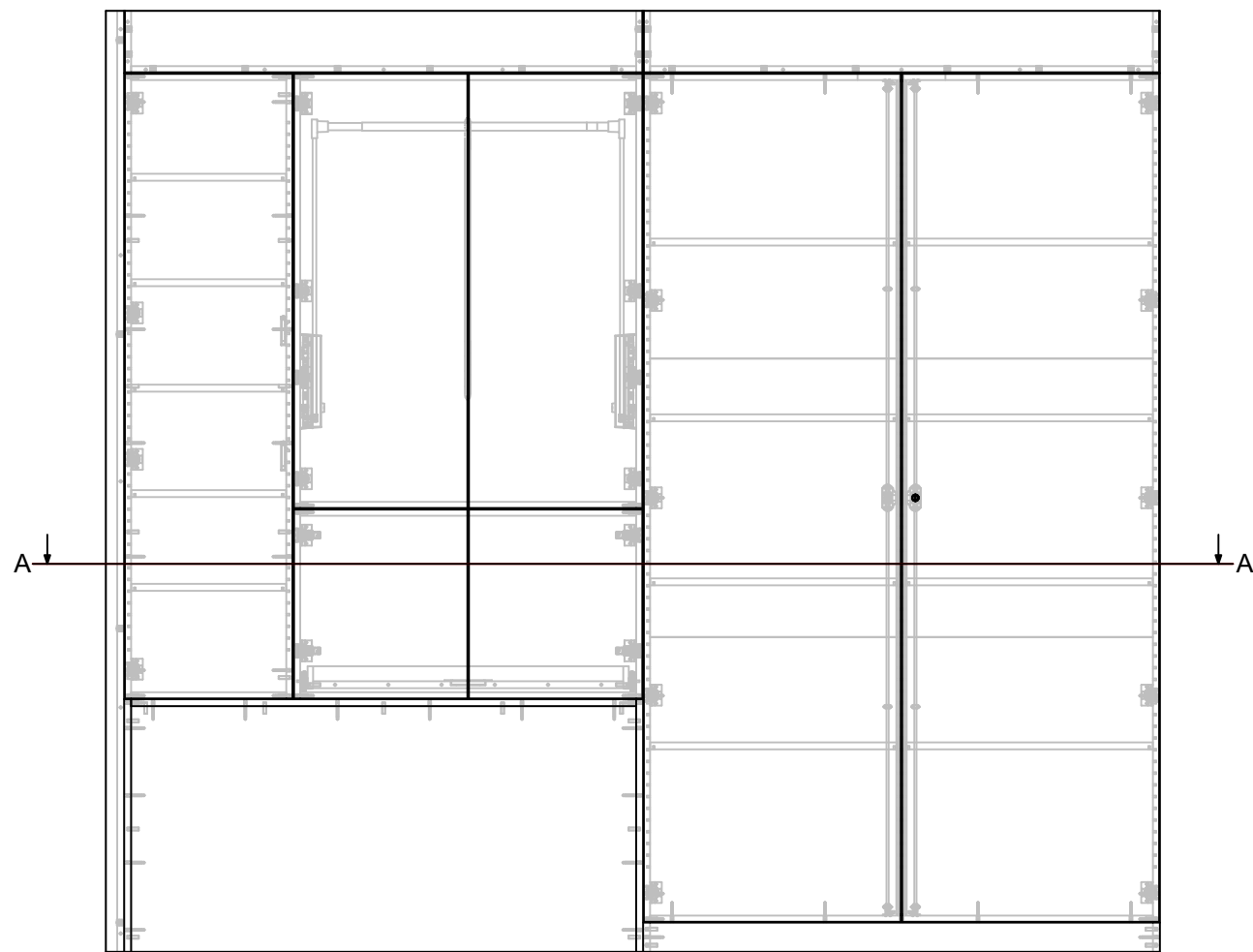
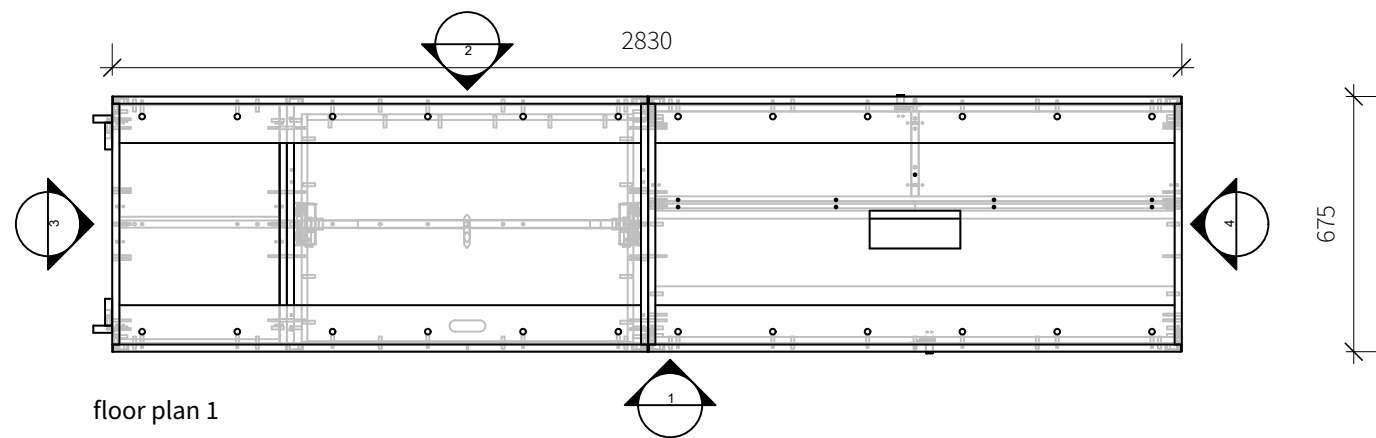
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



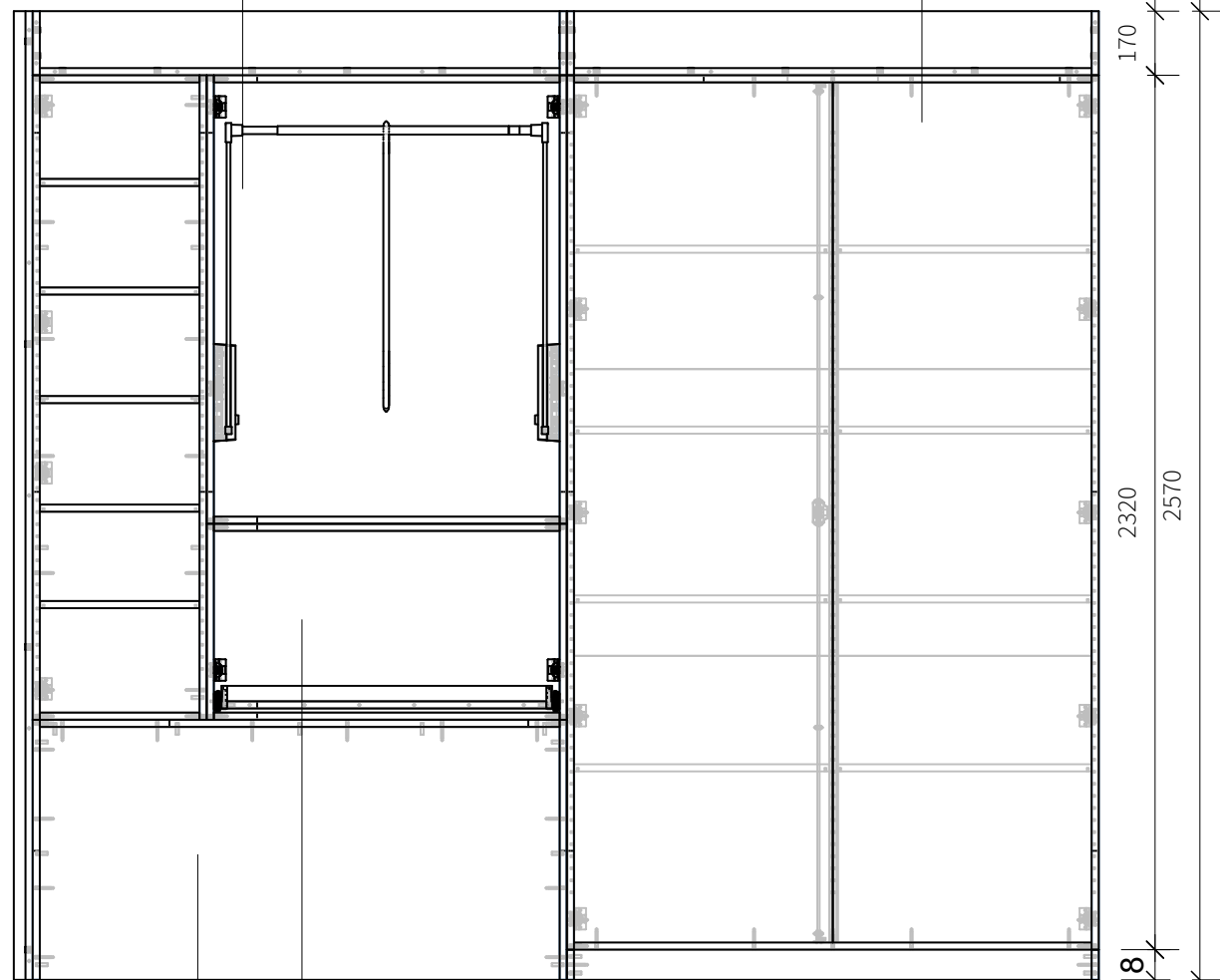
Scale 1:20 Phase D#6

Drawing Content - HDU
Furnishing
Hall cupboard

IN-4005



Wardrobe with adjustable clothes rail
Schrank mit verstellbarer Kleiderstange



section C-C

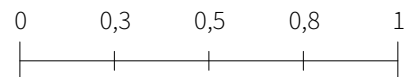
Workplace barrier-free
Arbeitsplatz barrierefrei

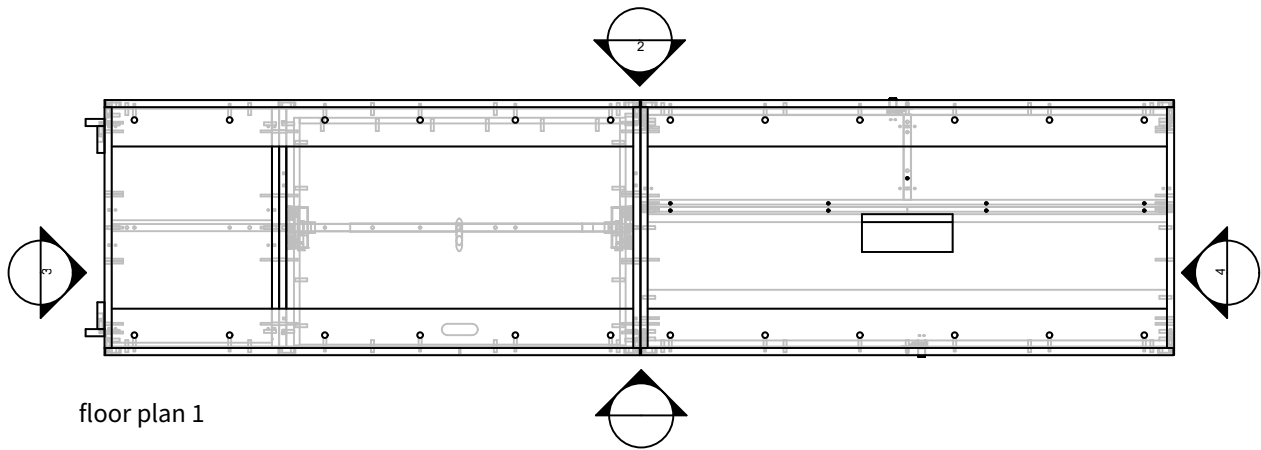
Space for containers (storage space)
Platz für Container (Stauraum)

technic
Technik

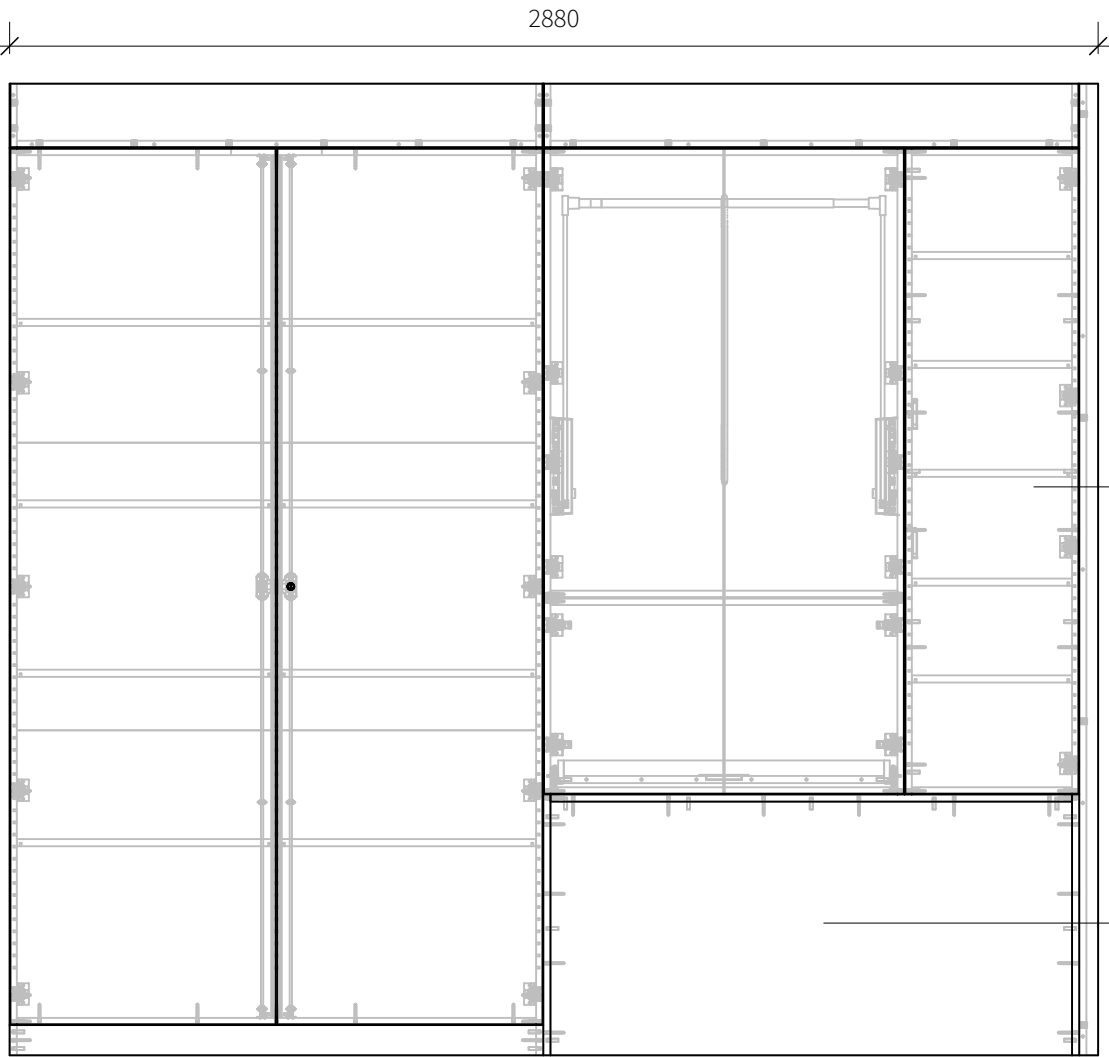
Construction, shelves and fronts Bayond board 19 mm
Konstruktion, Einlegeböden und Fronten Bayond-Platte 19 mm

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

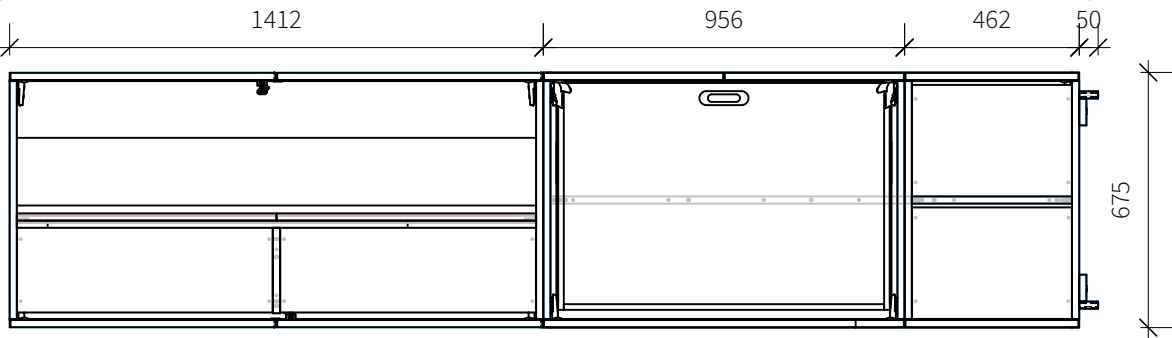




floor plan 1

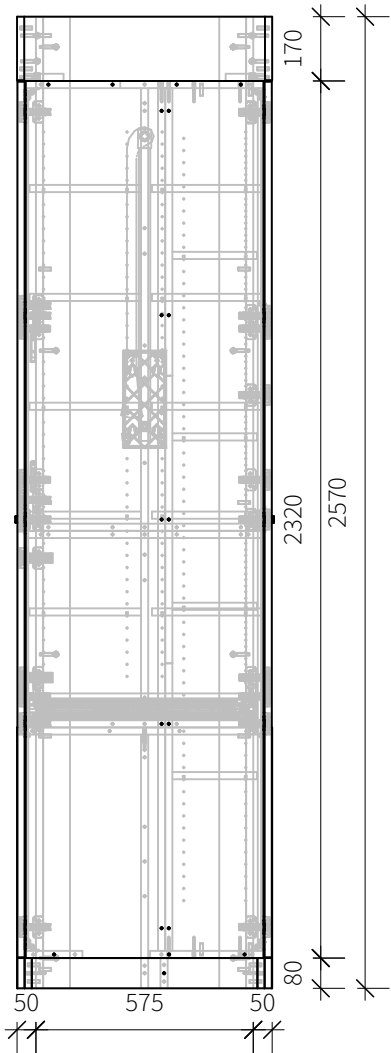


view 1



section A-A

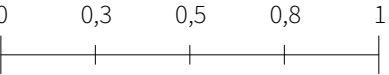
Construction, shelves and
fronts Bayond board 19 mm
Konstruktion, Einlegeböden und
Fronten Bayond-Platte 19 mm



view 4



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

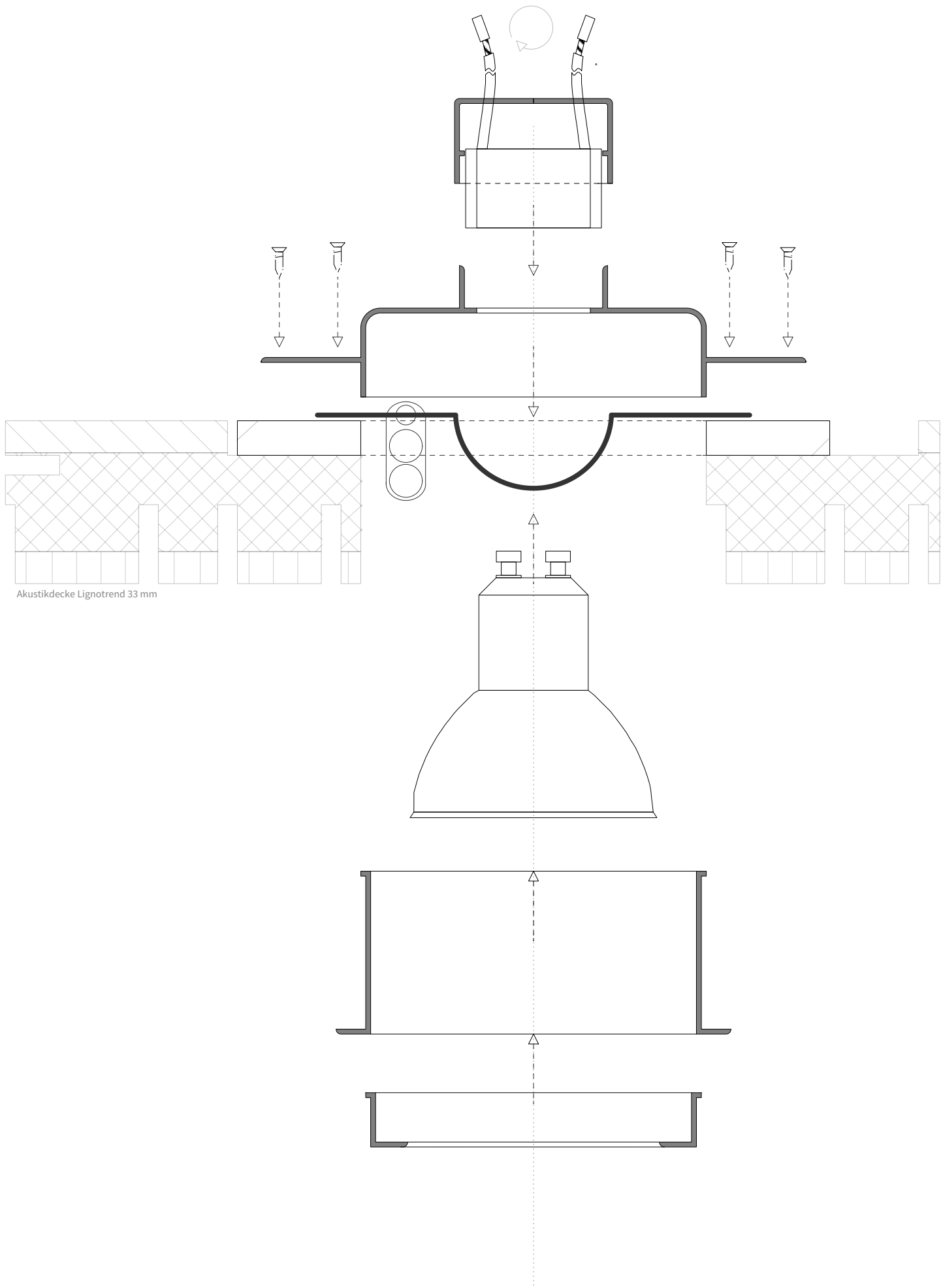


Scale 1:100 Phase D#6

Drawing Content - HDU
Furnishing
Wardrobe entrance

IN-4007

Ceiling diffuser Functional diagram
Deckenauslass Funktionsschema



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

Scale	Phase
1:1	D#6

Drawing Content - HDU
Outlet ceiling box schema



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
	D#6

Drawing Content
Interior Rendering



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
	D#6

Drawing Content
Interior Rendering

IN-5002



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
	D#6

Drawing Content
Interior Rendering

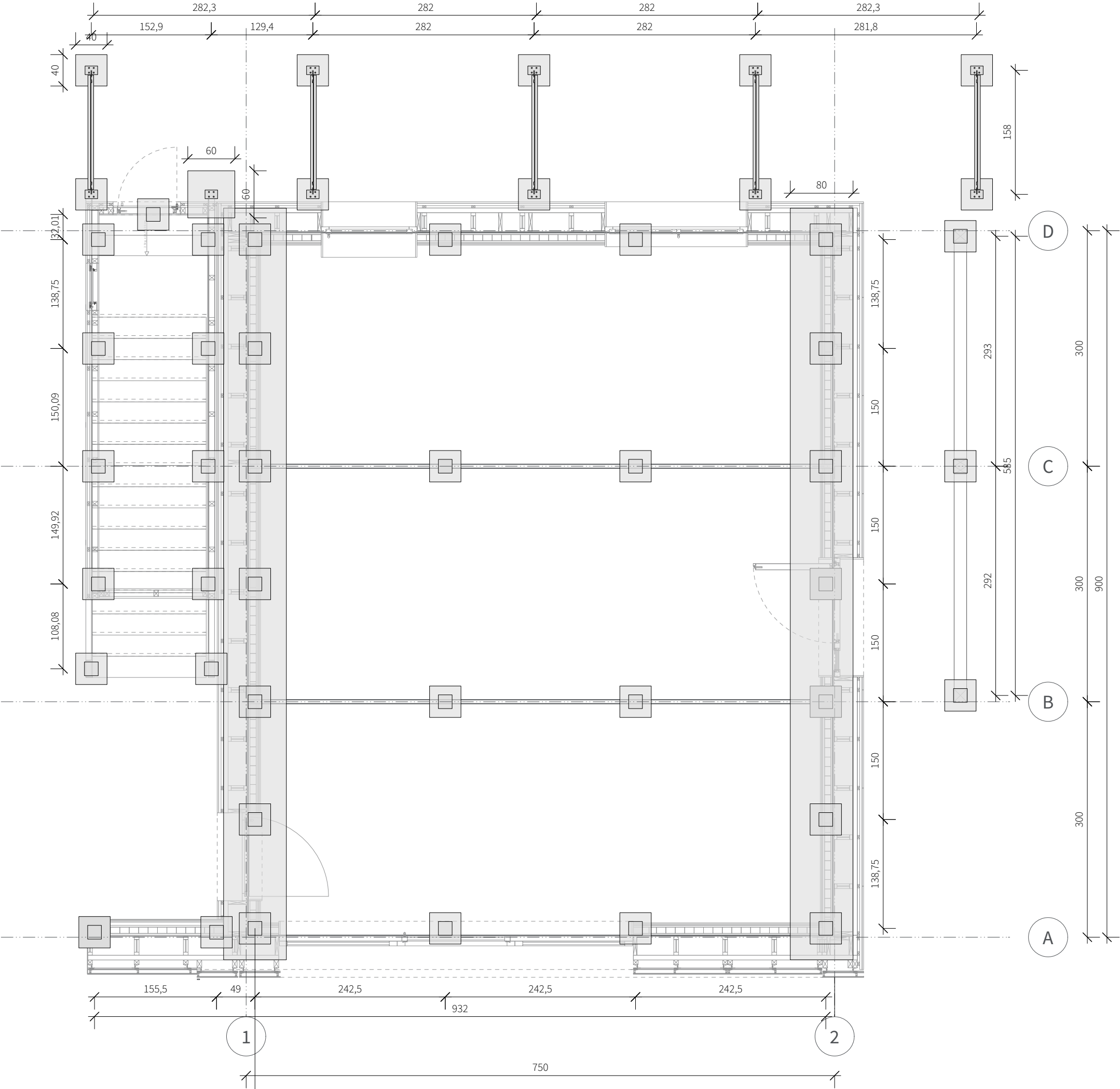
IN-5006



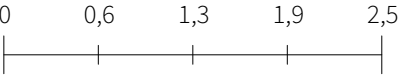
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Structural (ST)



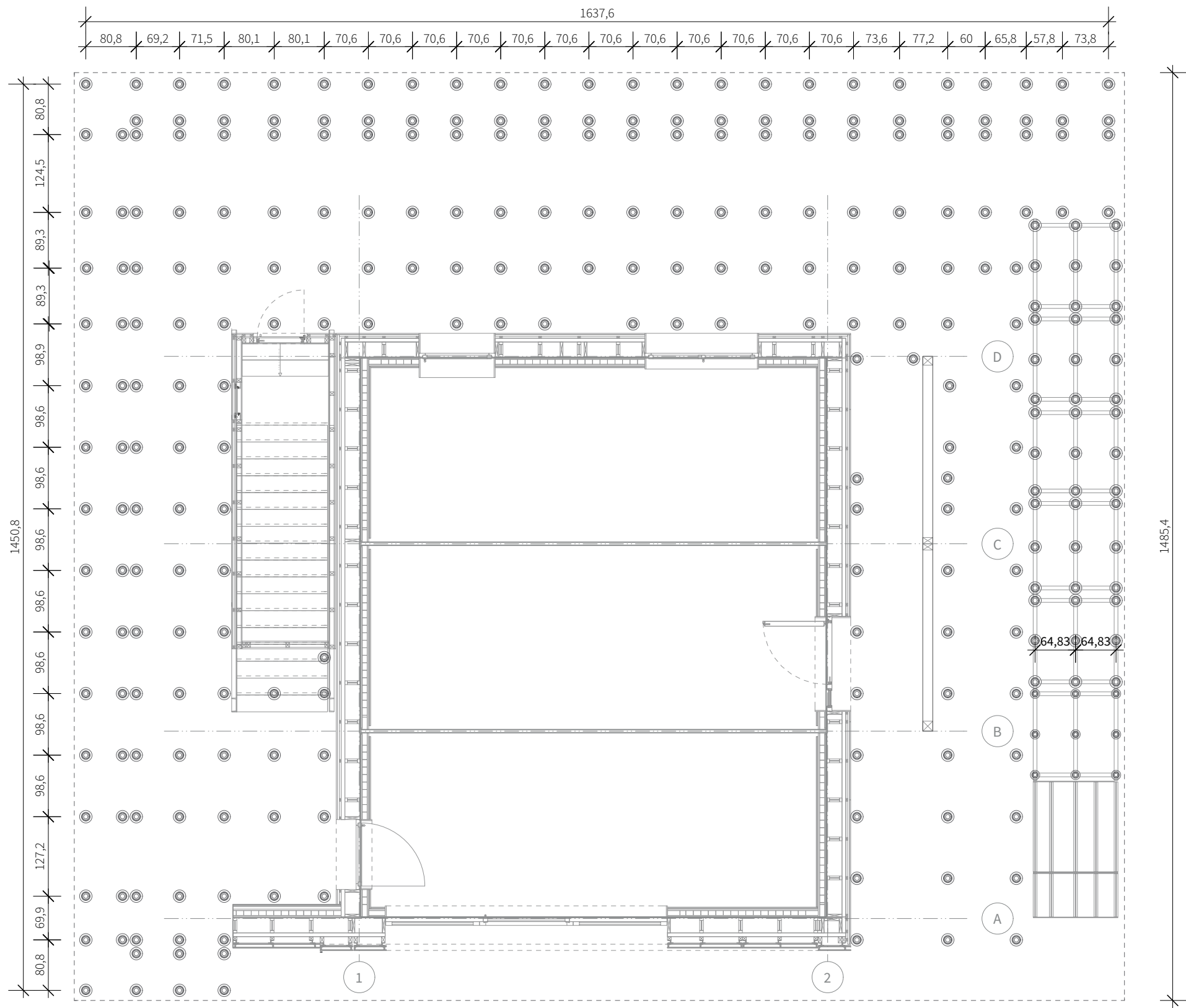


General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

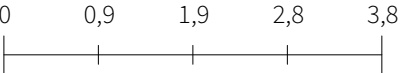


Scale 1:50 Phase D#6

Drawing Content - HDU Foundation Plan



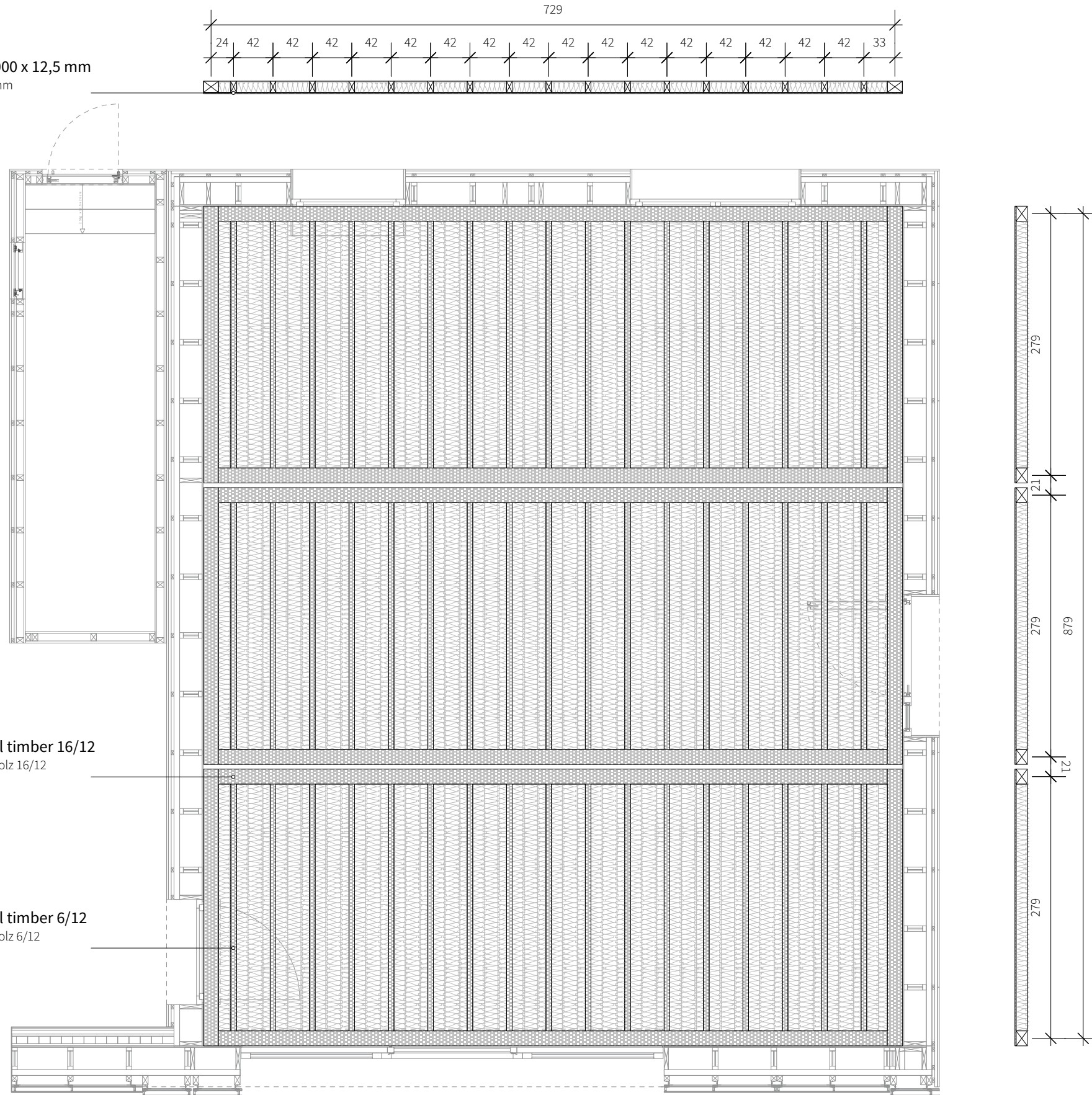
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



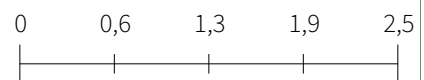
Scale 1:75 Phase D#6

Drawing Content - HDU Foundation plan ramp, platform

Fermacell Powerpanel H20 1250 x 3000 x 12,5 mm
Fermacell Powerpanel H20 1250 x 3000 x 12,5 mm



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



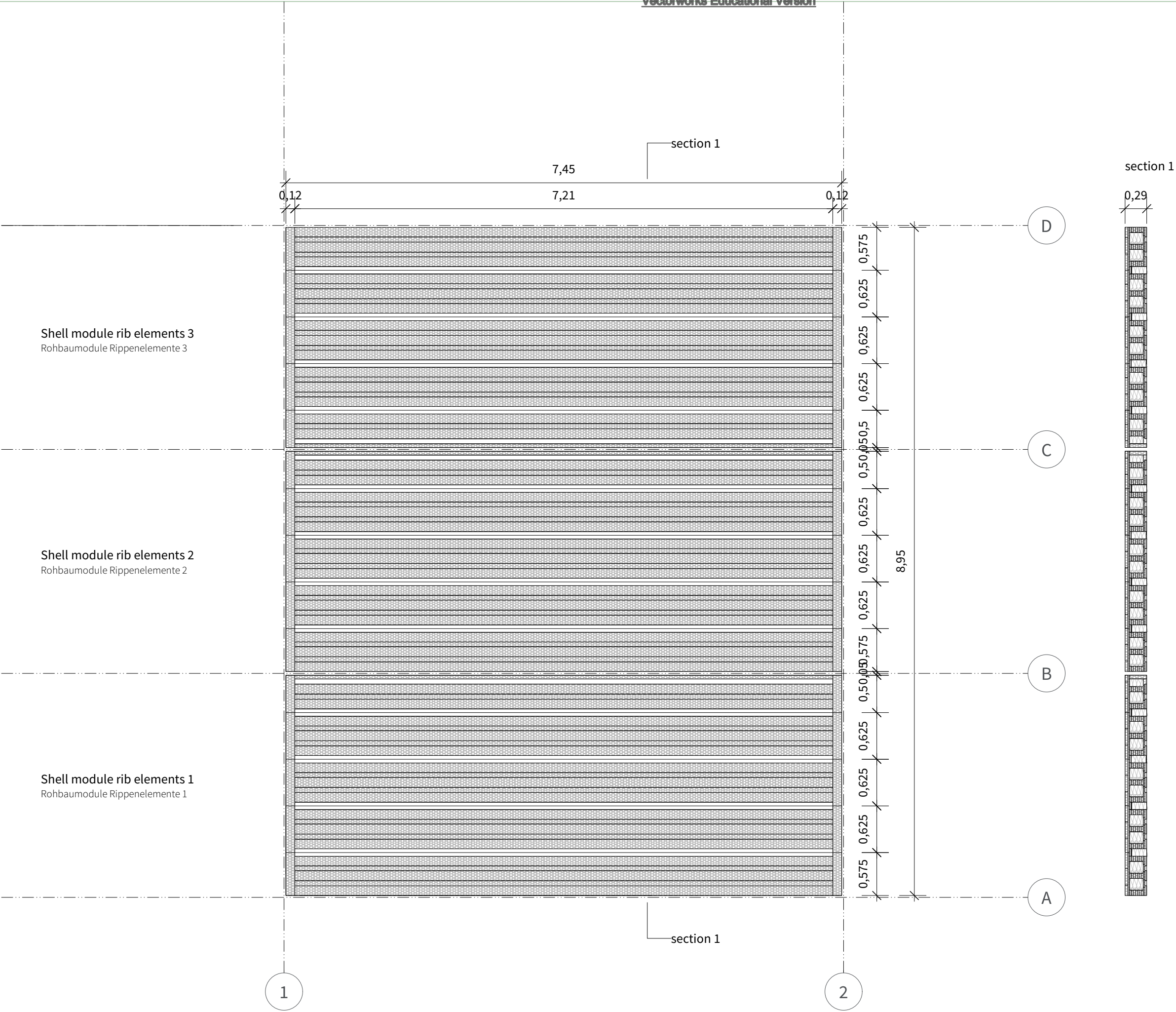
Scale	Phase
1:50	D#6

Drawing Content - HDU

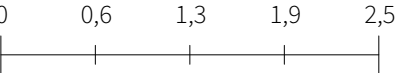
Structural floor plan

Floor elements

ST-1101 



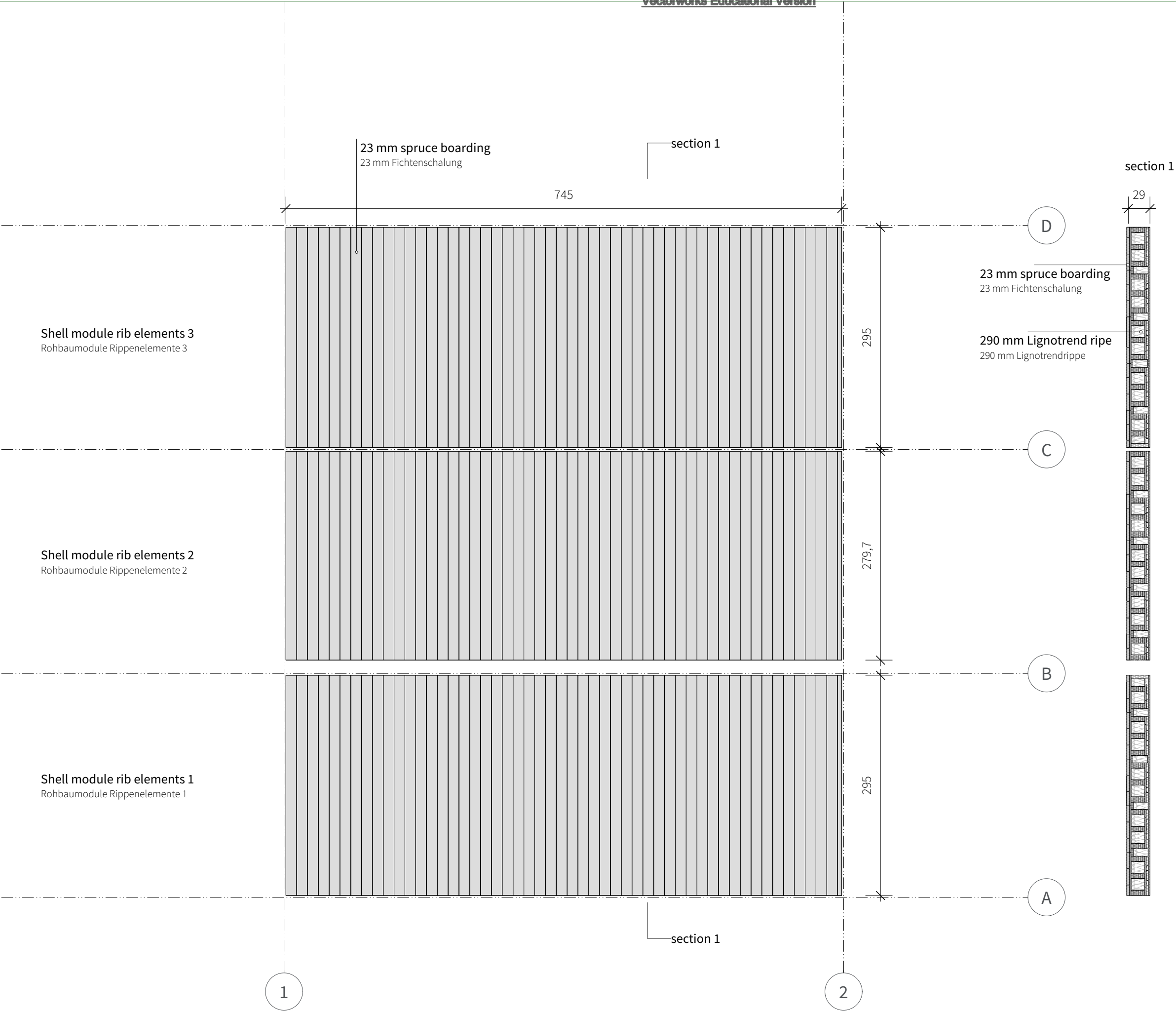
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



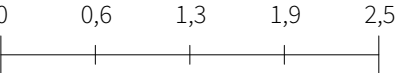
Scale 1:50 Phase D#6

Drawing Content - HDU
Structural floor plan floor
elements bottom ribs

ST-1102



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

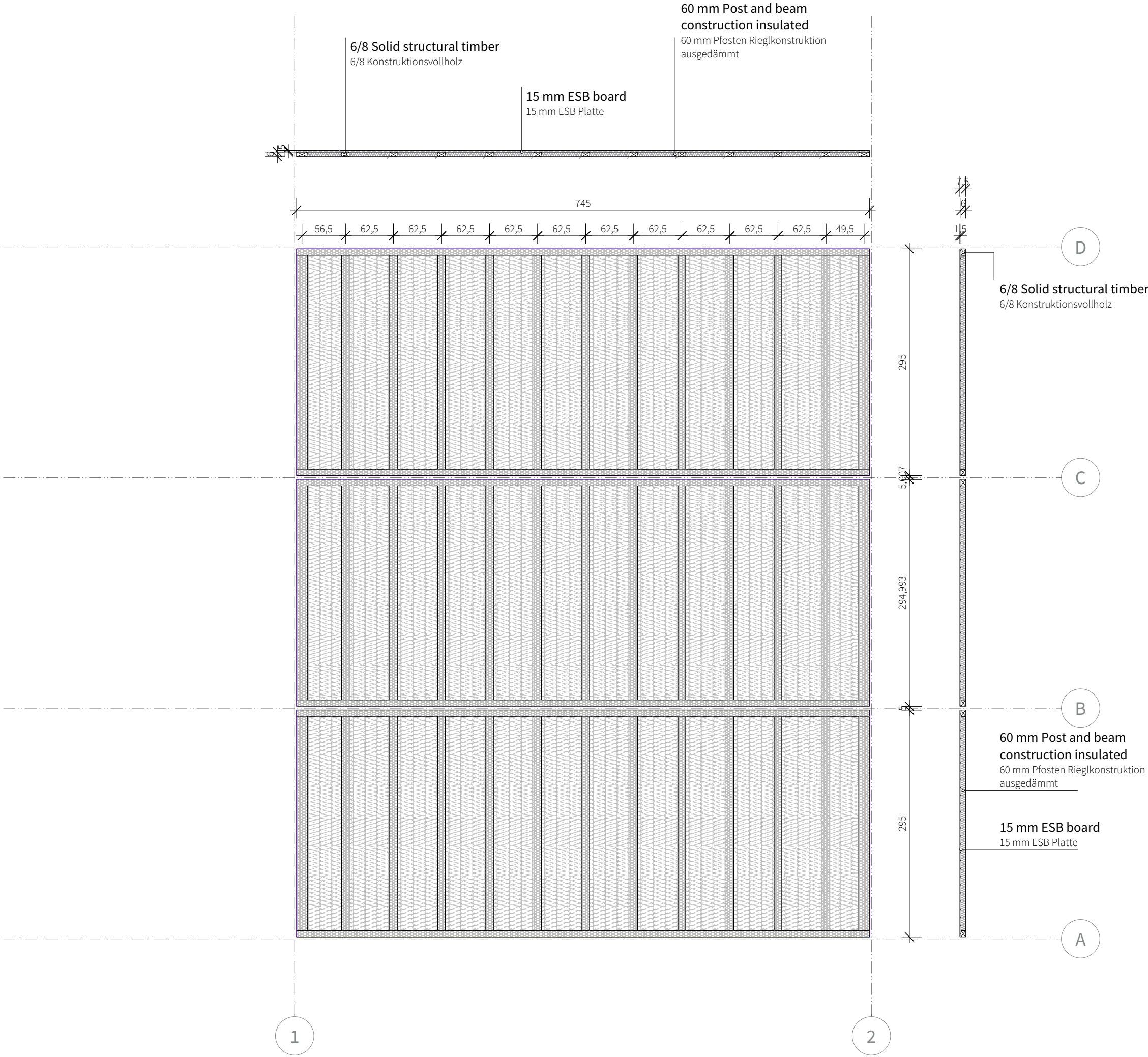


Scale 1:50 Phase D#6

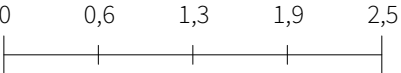
Drawing Content - HDU
Structural floor plan
floor Elements ceiling ribs

ST-1103





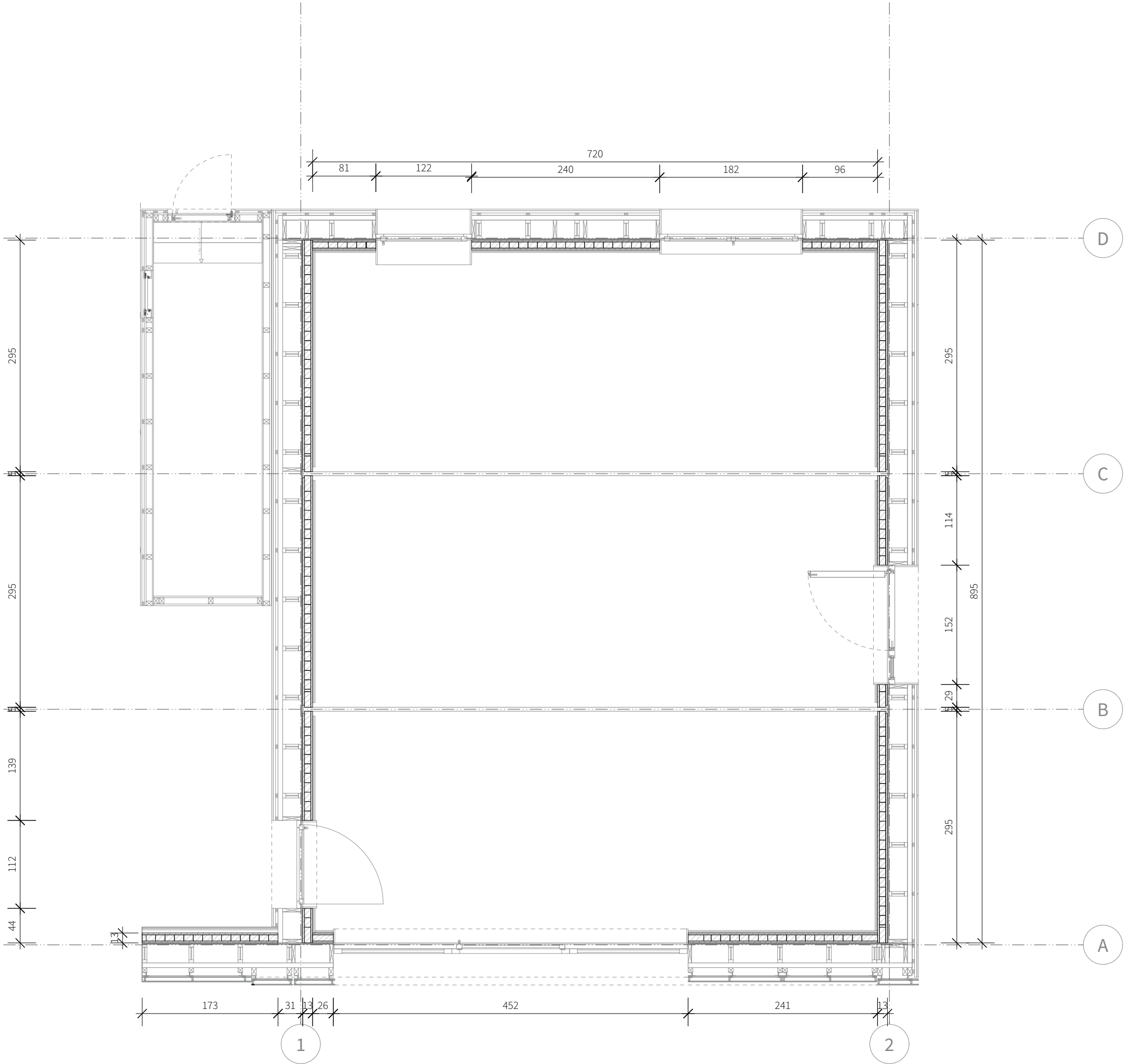
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



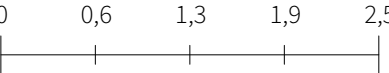
Scale 1:50 Phase D#6

Drawing Content - HDU
Structural floor plan
framework ceiling

ST-1104



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



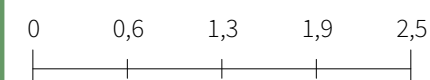
Scale 1:100 Phase D#6

Drawing Content - HDU
Structural floor plan
Wood module wall

ST-1105



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



Scale	Phase
1:50 	D#6

Drawing Content - HDU

Structural floor plan

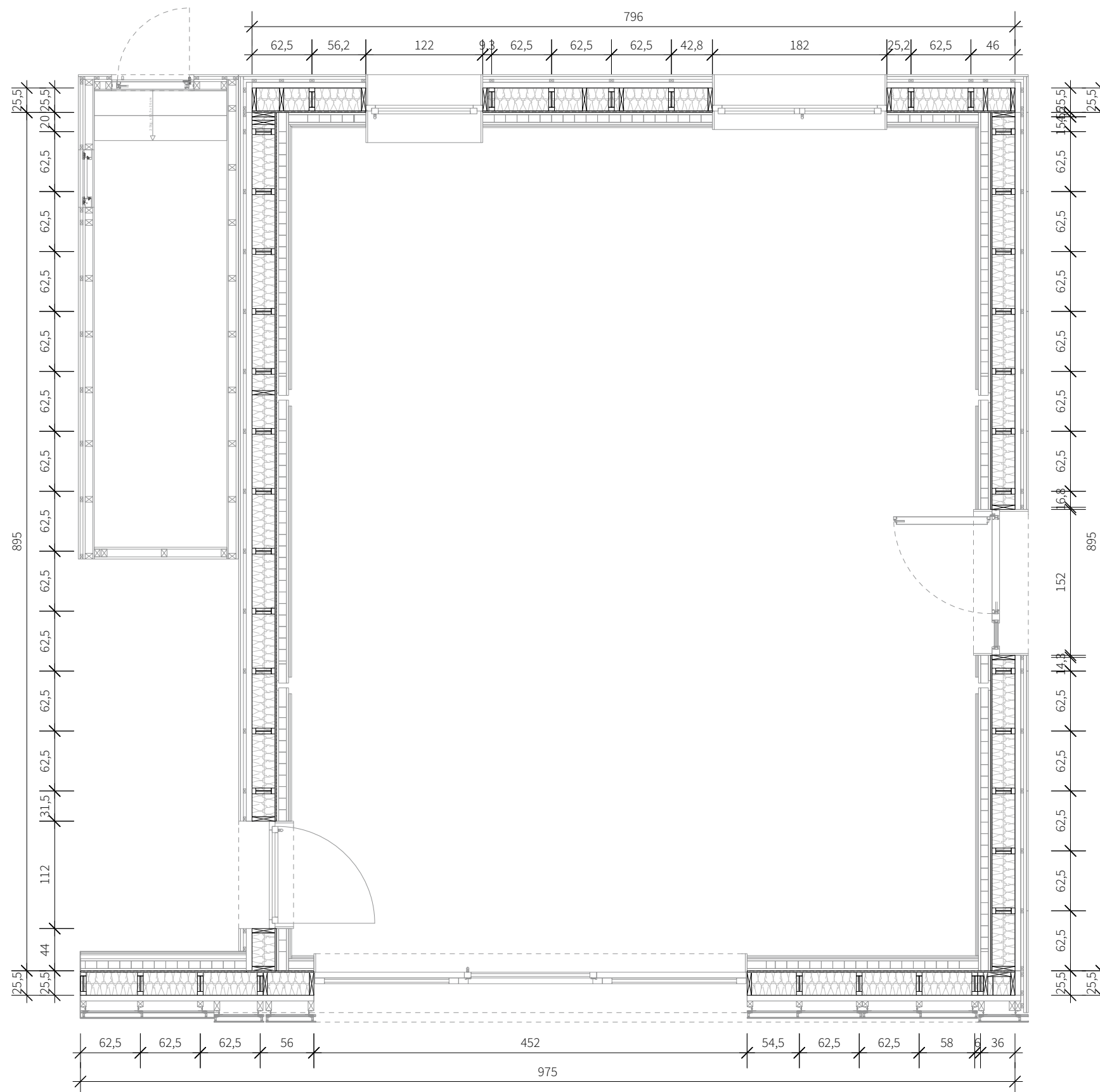
Wall elements

Insulation panels

ST-1106



Wanddämmelement 02



Wall insulation element 03

Wanddämmelement 03

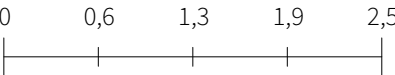
Wall insulation element 01

Wall insulation element
Wanddämmelement 01

Wanddämmelement 04



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



Scale

1:50

Phase

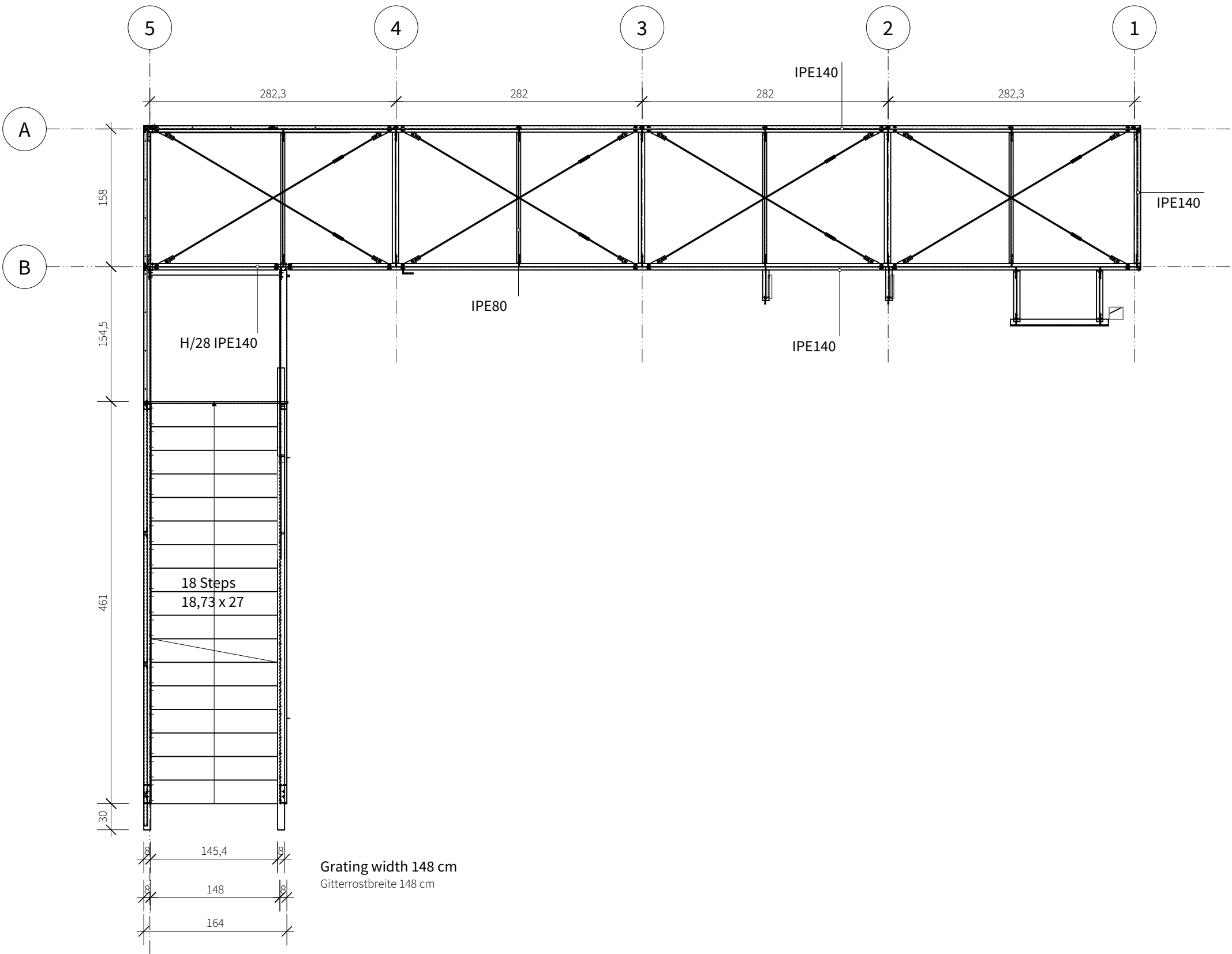
D#6

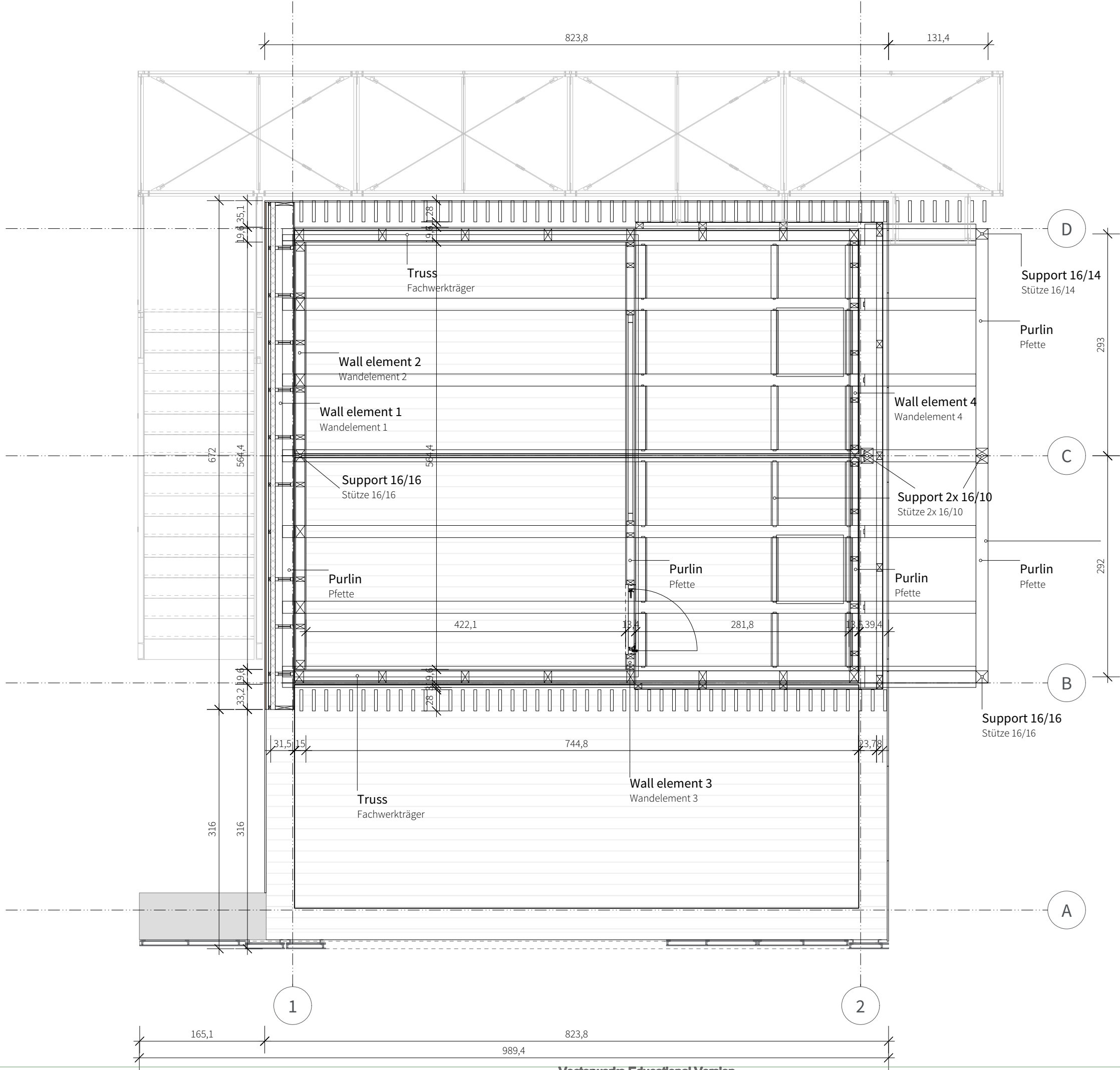
Drawing Content - HDU

structural floor plan

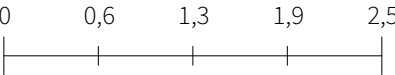
Steel staircase and walkway

ST-1107





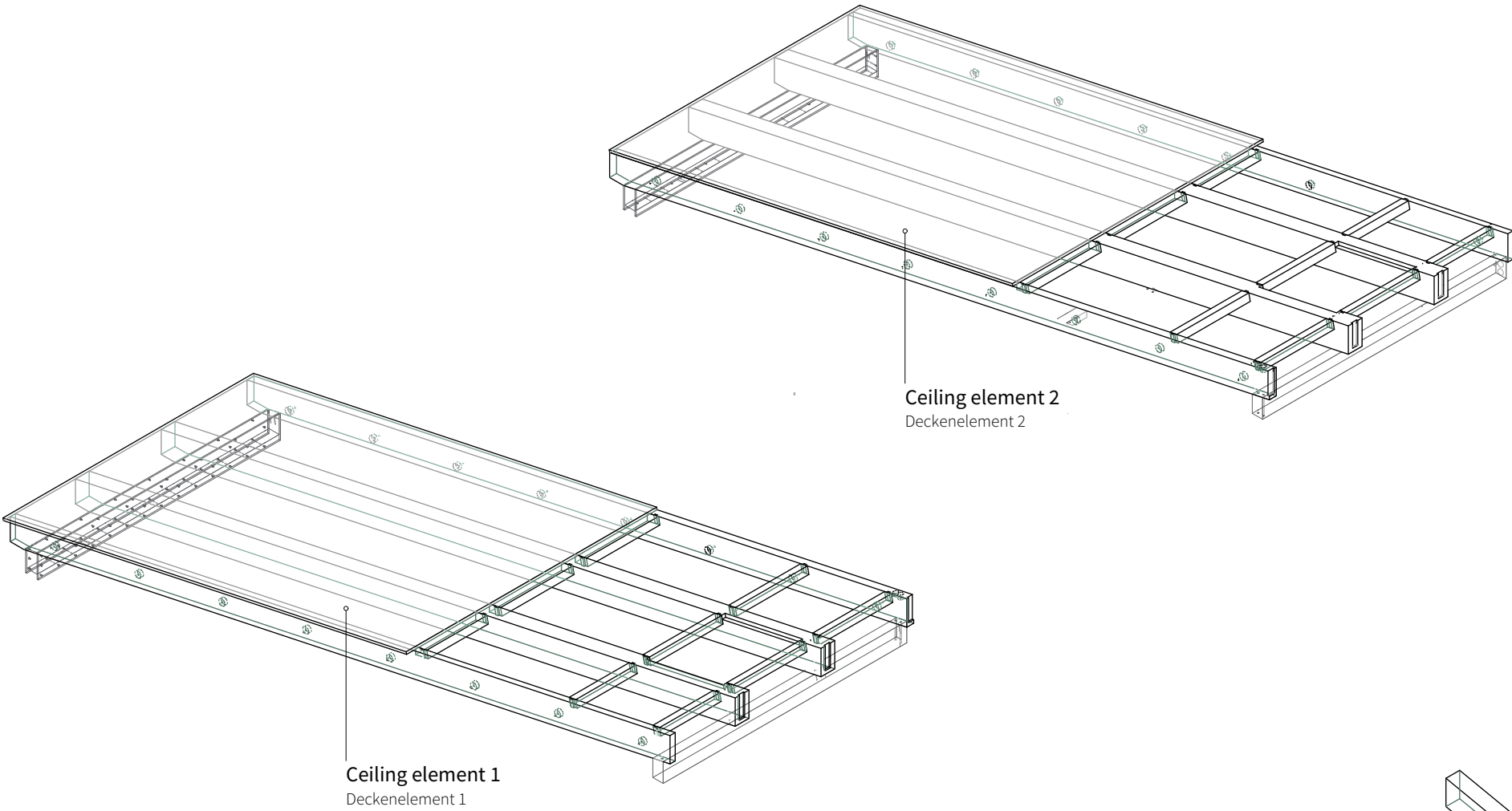
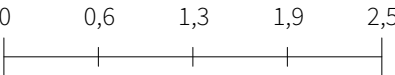
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



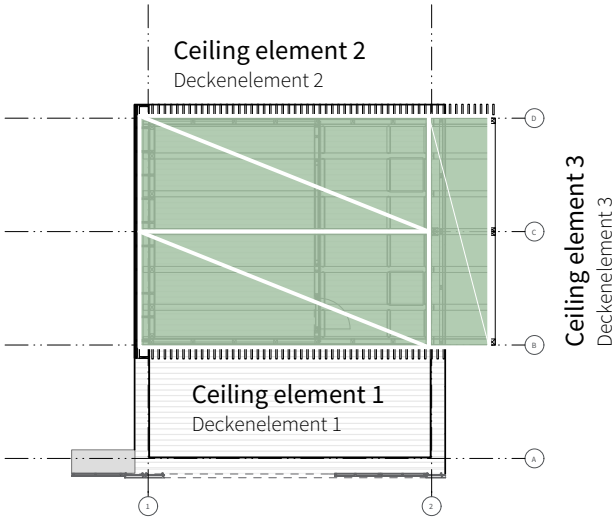
Scale 1:50 Phase D#6

Drawing Content - HDU
Structural roof plan

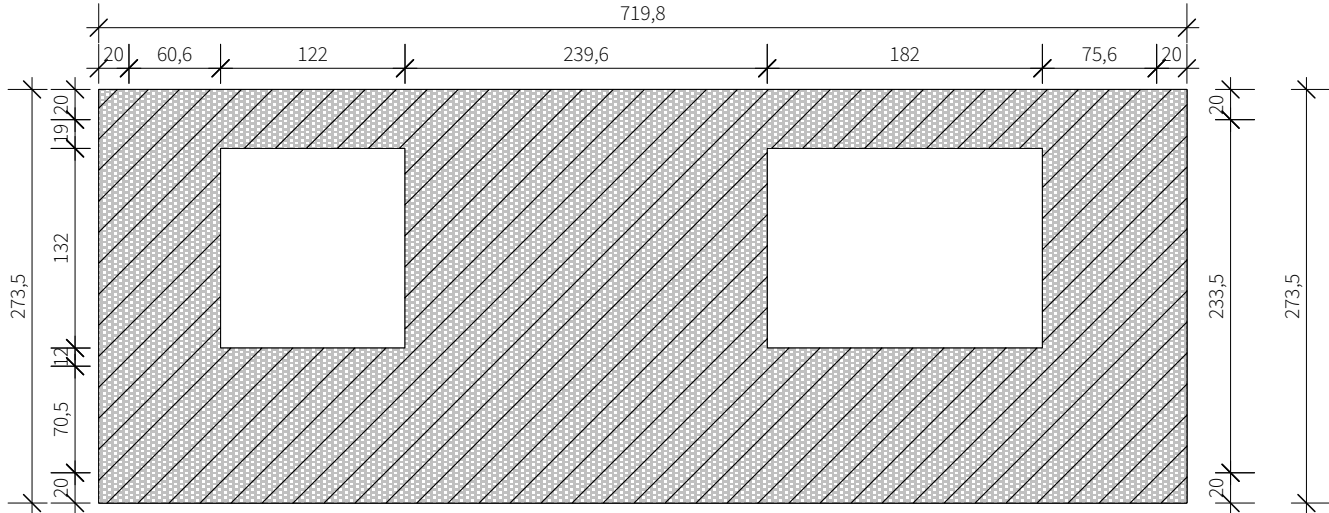
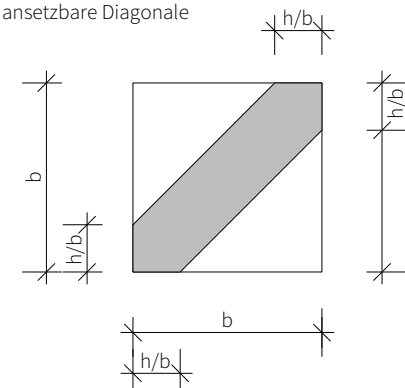
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



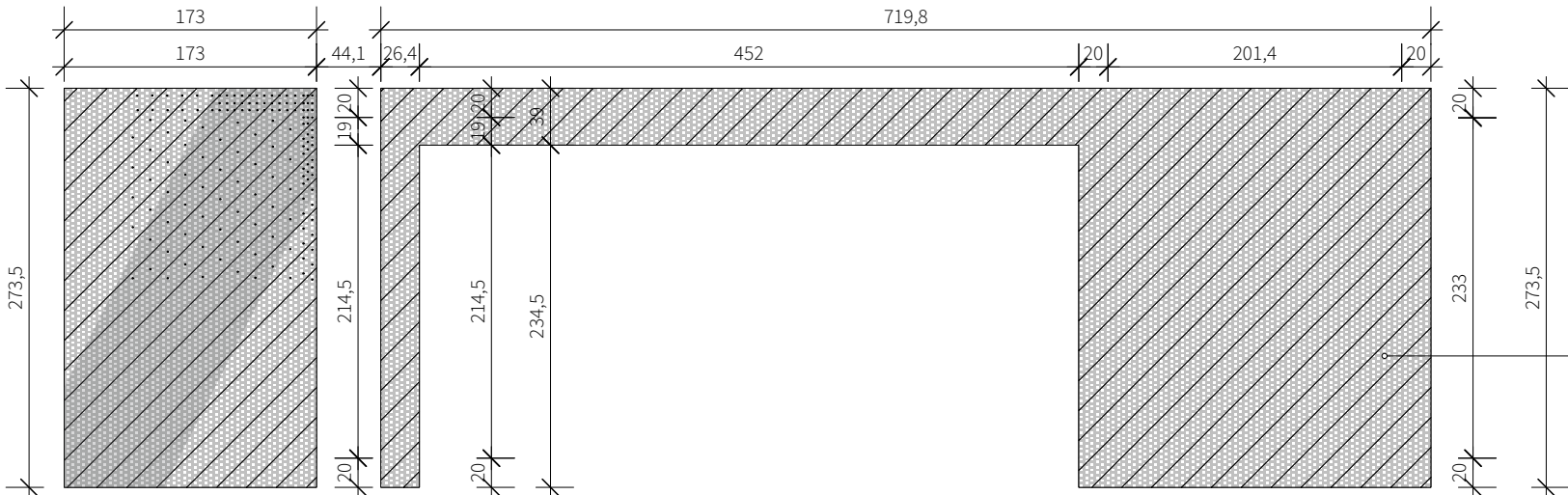
Floor plan 1:200
Grundriss Obergeschoss 1:200



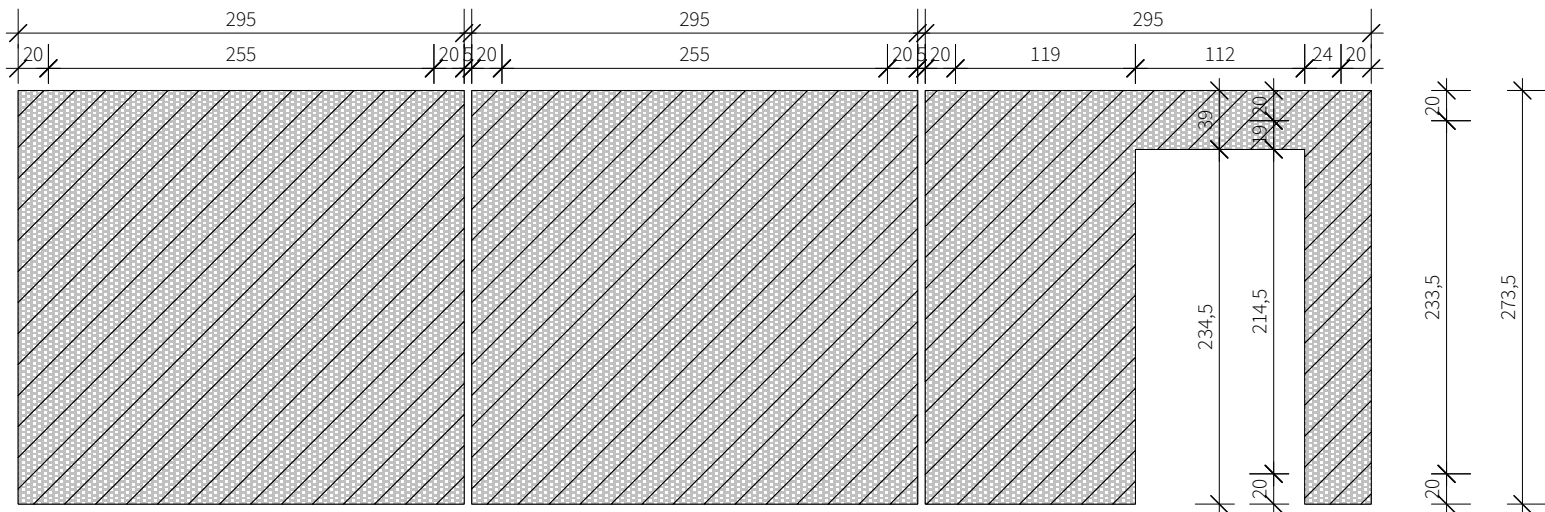
attachable diagonal
ansetzbare Diagonale



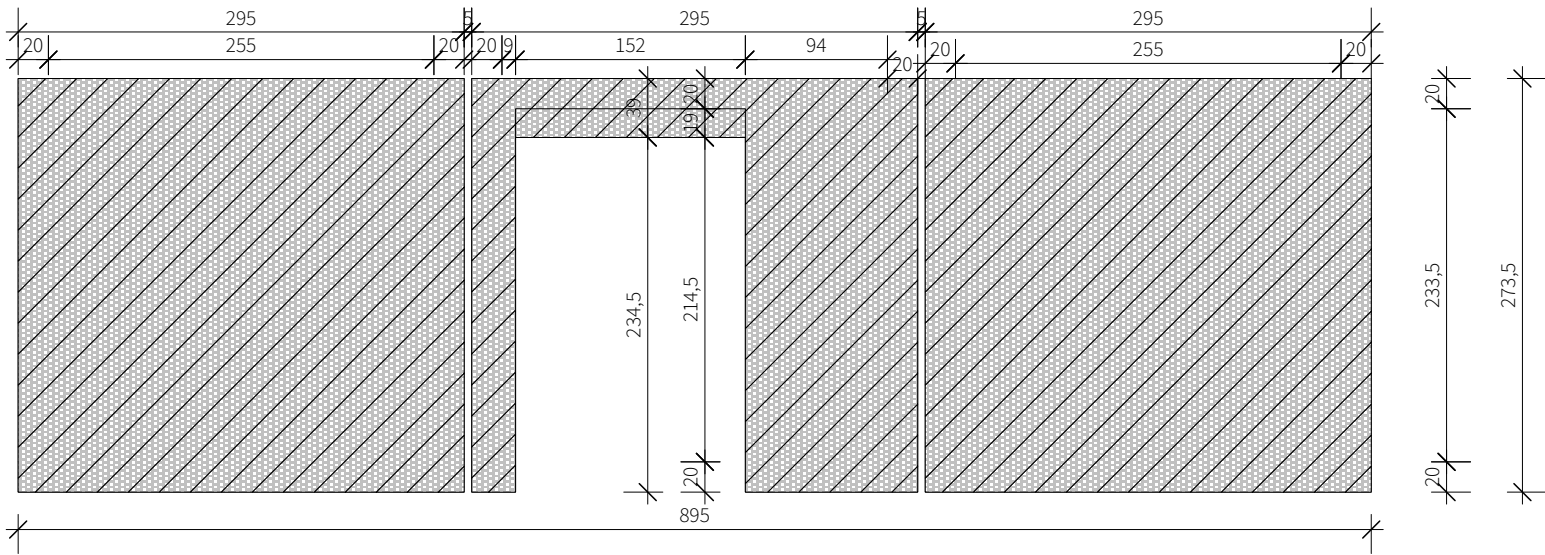
supporting wooden wall north
tragende Holzwand Nord



supporting wooden wall south
tragende Holzwand Süd



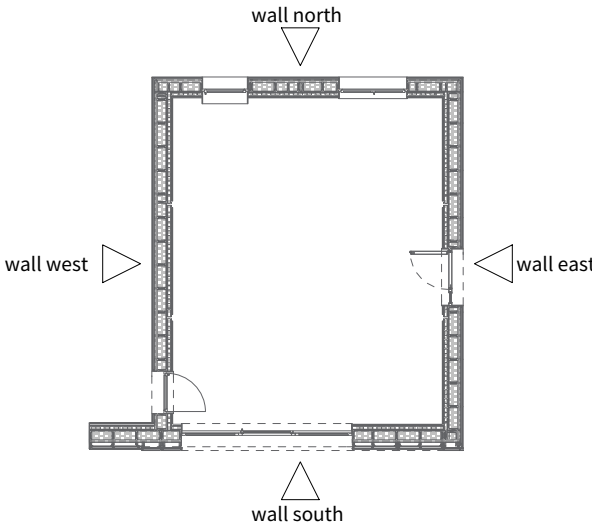
supporting wooden
wall west
tragende Holzwand West



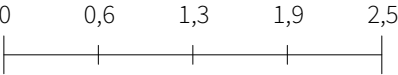
supporting wooden
wall east
tragende Holzwand Ost

Diagonal boarding continuous (spruce)
Diagonalverschalung durchlaufend (Fichte)

Floor plan 1:200
Grundriss 1:200



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



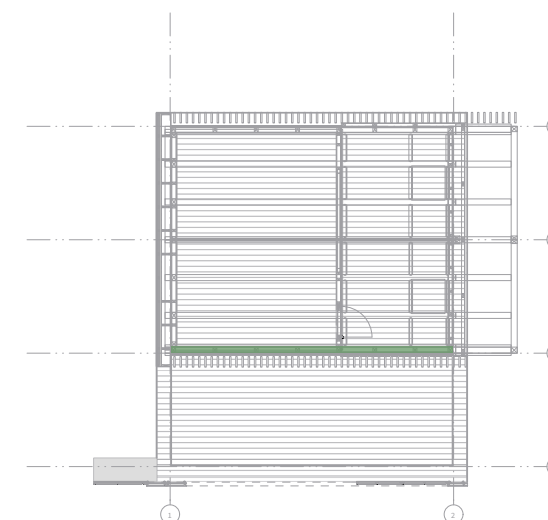
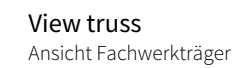
Scale
1:50

Phase
D#6

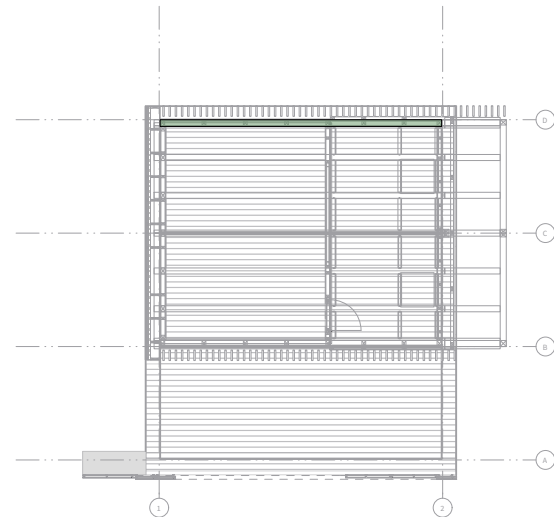
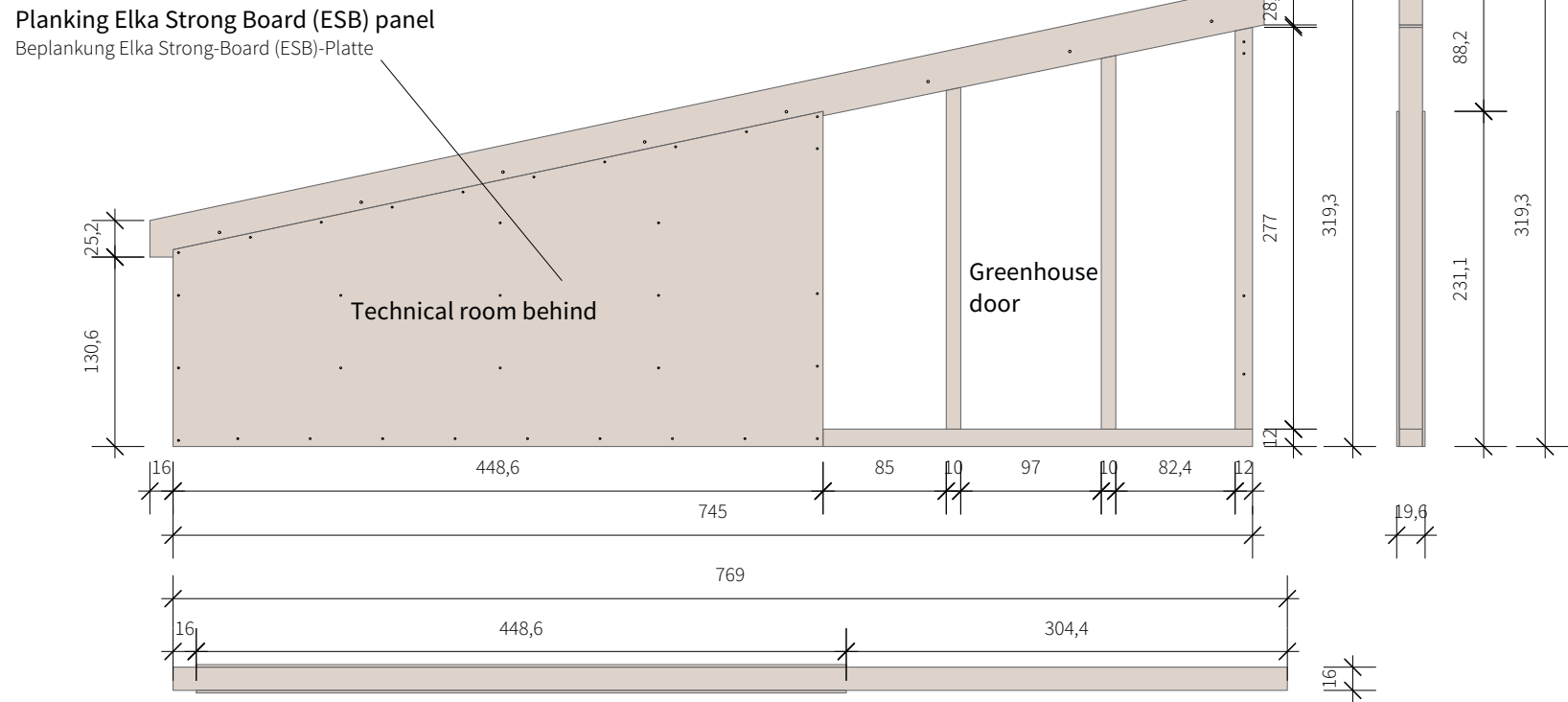
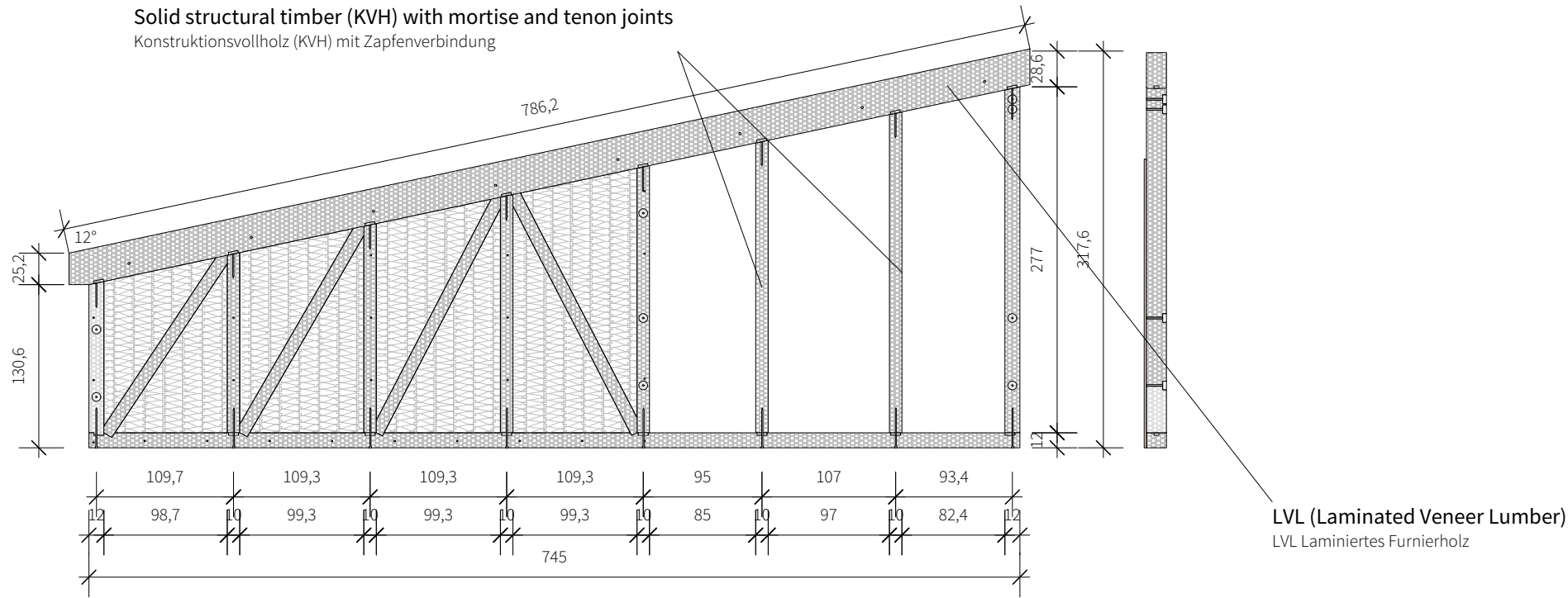
Drawing Content - HDU
Structural Sections
supporting wooden wall

ST-1301

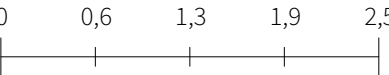




A horizontal number line with tick marks at 0, 0.6, 1.3, 1.9, and 2.5. The line is labeled with these values above the tick marks.

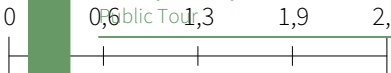


General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

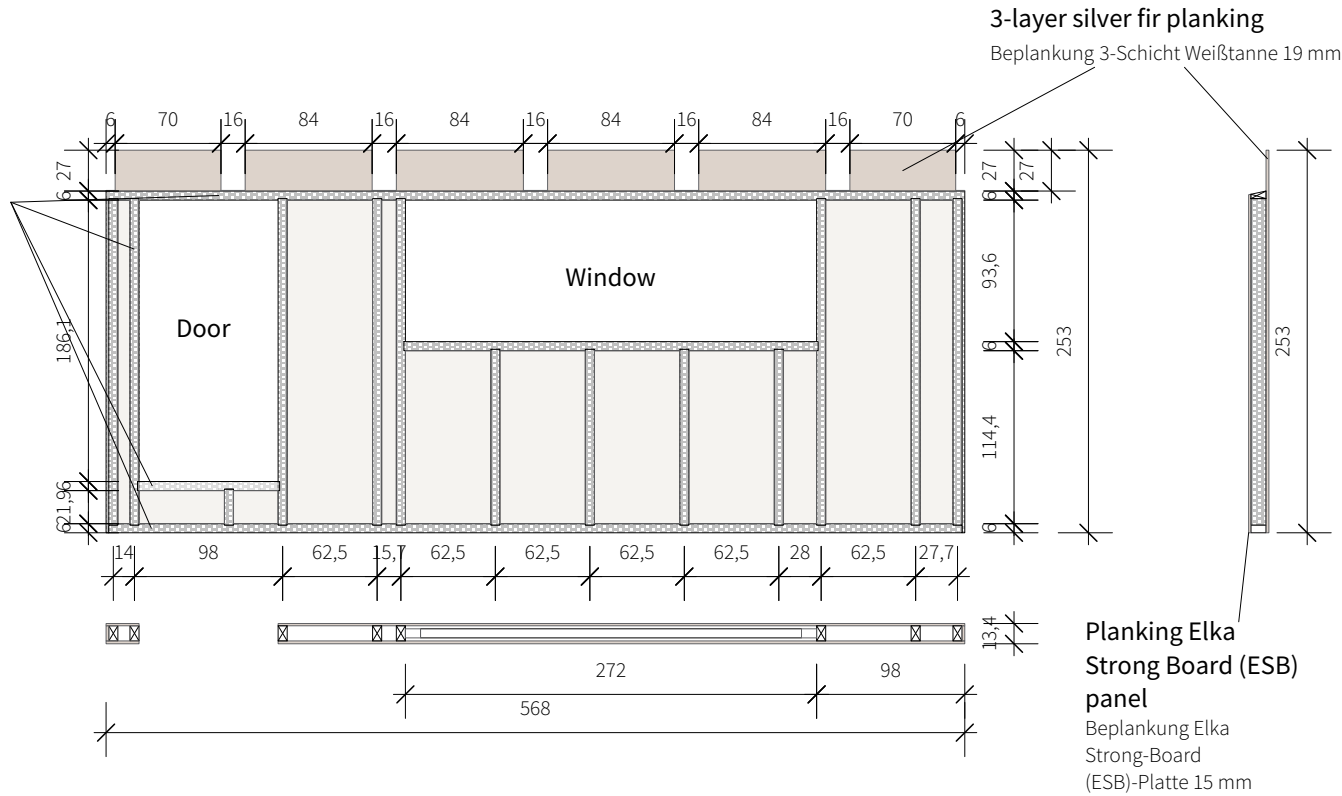




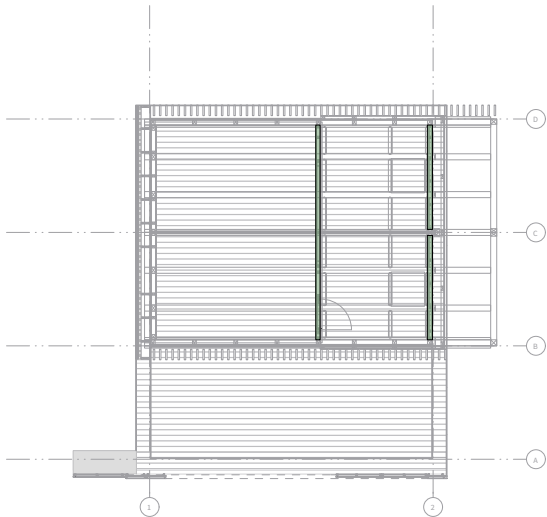
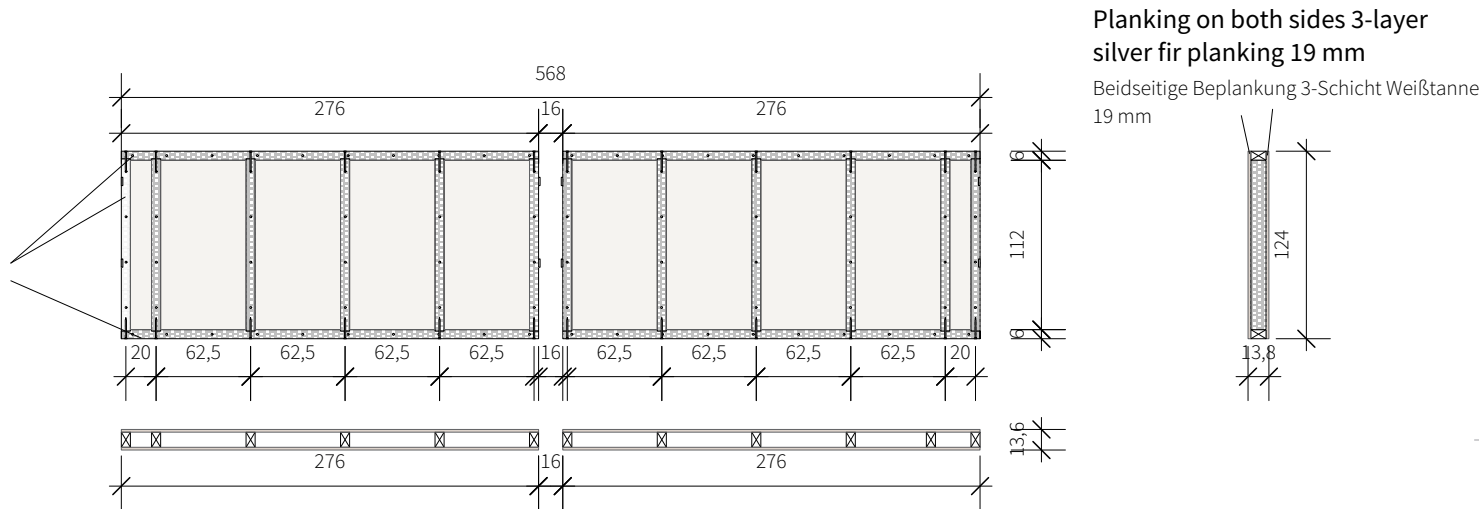
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tools	PT



Solid structural timber (KVH) with
mortise and tenon joints
Konstruktionsvollholz (KVH) mit
Zapfenverbindung



Solid structural timber (KVH) with
mortise and tenon joints
Konstruktionsvollholz (KVH) mit
Zapfenverbindung



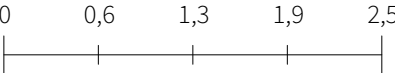
Scale 1:50 Phase D#6

Drawing Content - HDU
Structural Section
Wall elements upper floor

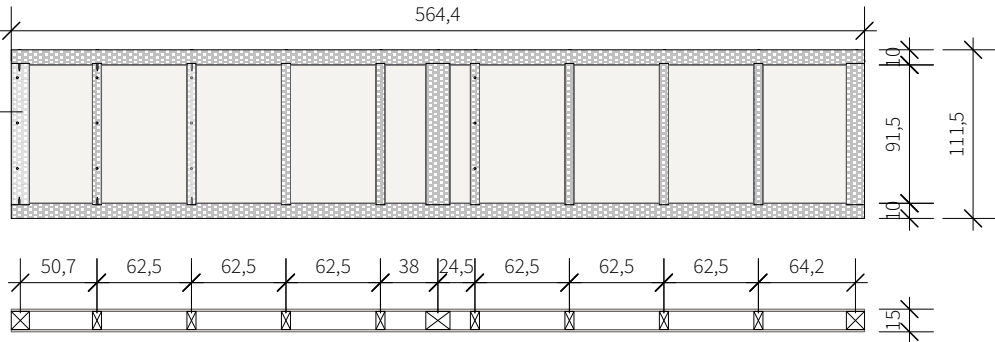
ST-1304



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



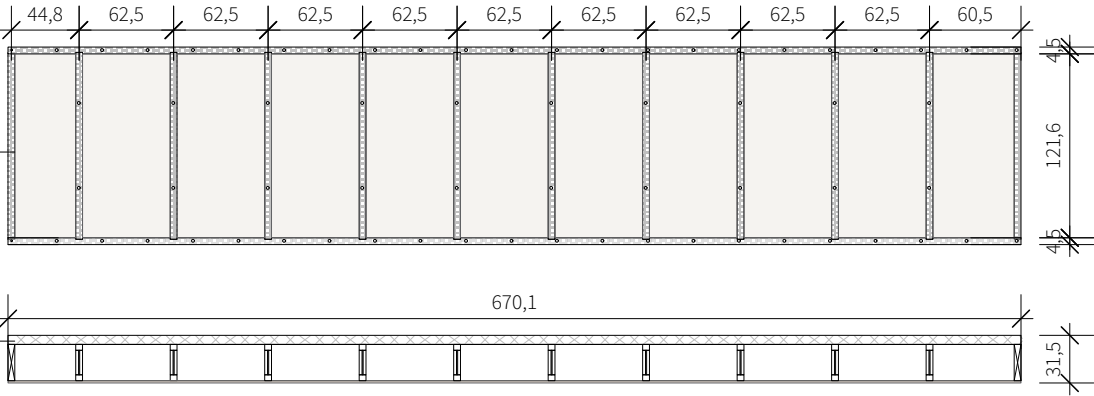
Solid structural timber (KVH) with mortise and tenon joints
Konstruktionsvollholz (KVH) mit Zapfenverbindung



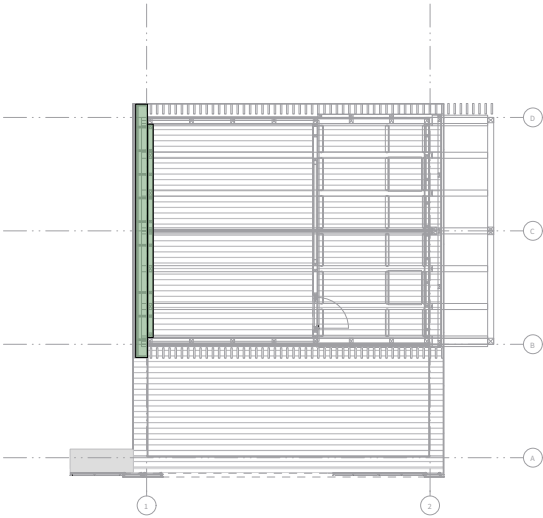
Planking Elka Strong Board (ESB) panel
Beplankung Elka Strong-Board (ESB)-Platte 15 mm



Solid structural timber (KVH) with mortise and tenon joints
Konstruktionsvollholz (KVH) mit Zapfenverbindung



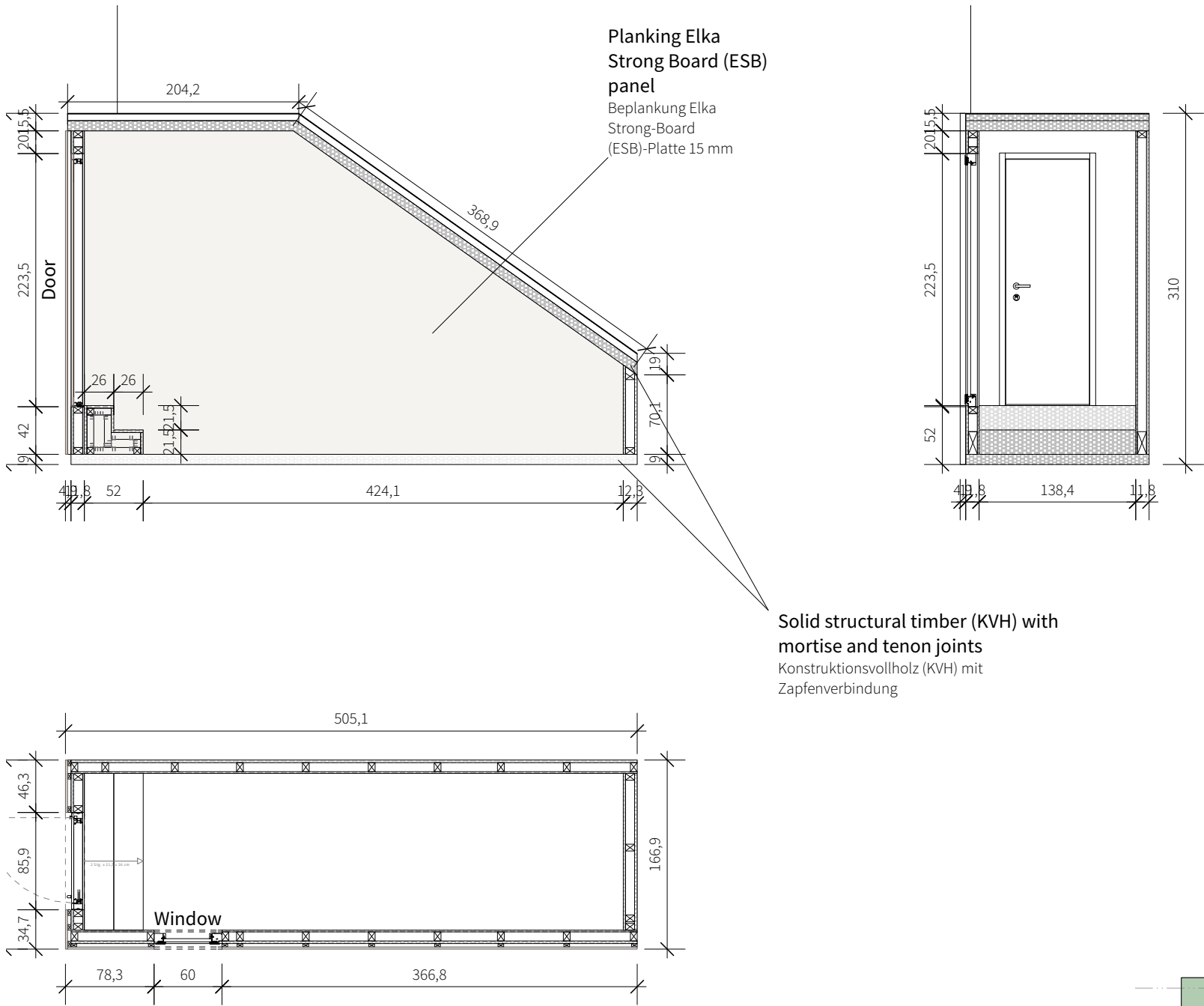
60 mm wood fibre insulation board
STEICOprotect H dry
60 mm Holzfaserdämmplatte
STEICOprotect H dry



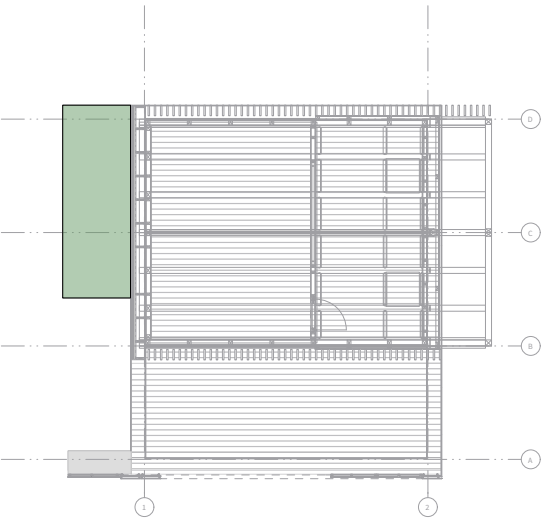
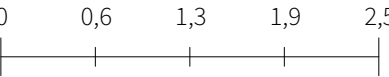
Scale 1:50 Phase D#6

Drawing Content - HDU
Structural sections
Wall elements 1.1 and 1.2
Upper floor

ST-1305



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT



Scale
1:50

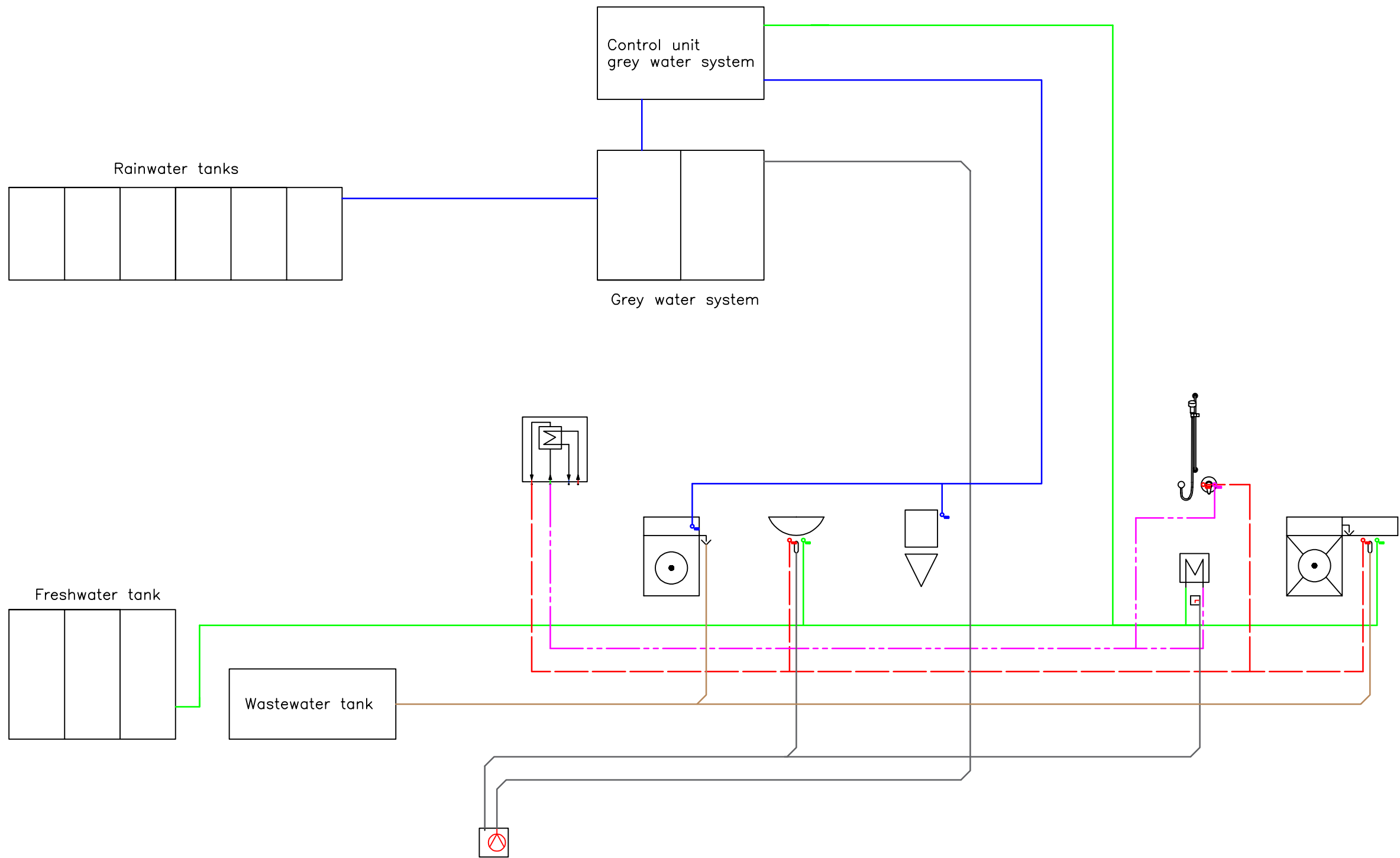
Phase
D#6

Drawing Content - HDU
**Structural section
Technology module**

ST-1306

A black and white photograph of a plumber working on a sink. The plumber is wearing a dark shirt and is focused on the task. The sink is a white porcelain or enamel sink. The background is slightly blurred, showing what appears to be a kitchen or bathroom setting. A green rectangular overlay is positioned in the upper left corner of the image, containing the text 'Plumbing (PL)' in white. The text is in a bold, sans-serif font. The overall image has a professional, documentary feel.

Plumbing (PL)



Legend:

- Potable water hot
- Potable water cold
- Potable water cold pre-heated
- Process water
- Waste water
- Grey water
- Shower

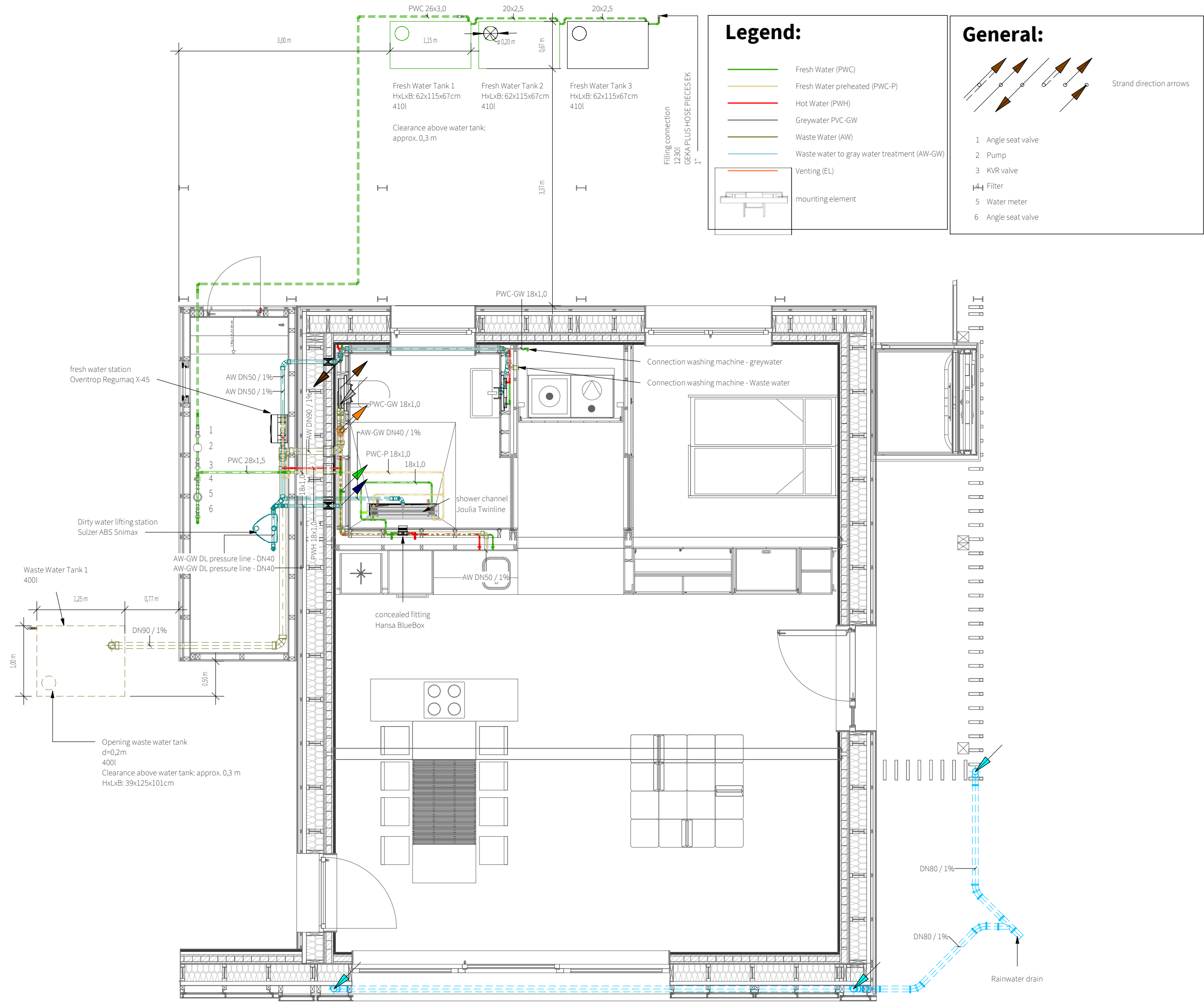
- Shower channel heat exchanger
- Lifting pump
- Washbasin
- Toilet
- Kitchen unit
- Washing machine
- Heat exchanger



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
	D#6

Drawing Content
Conceptual Drawings



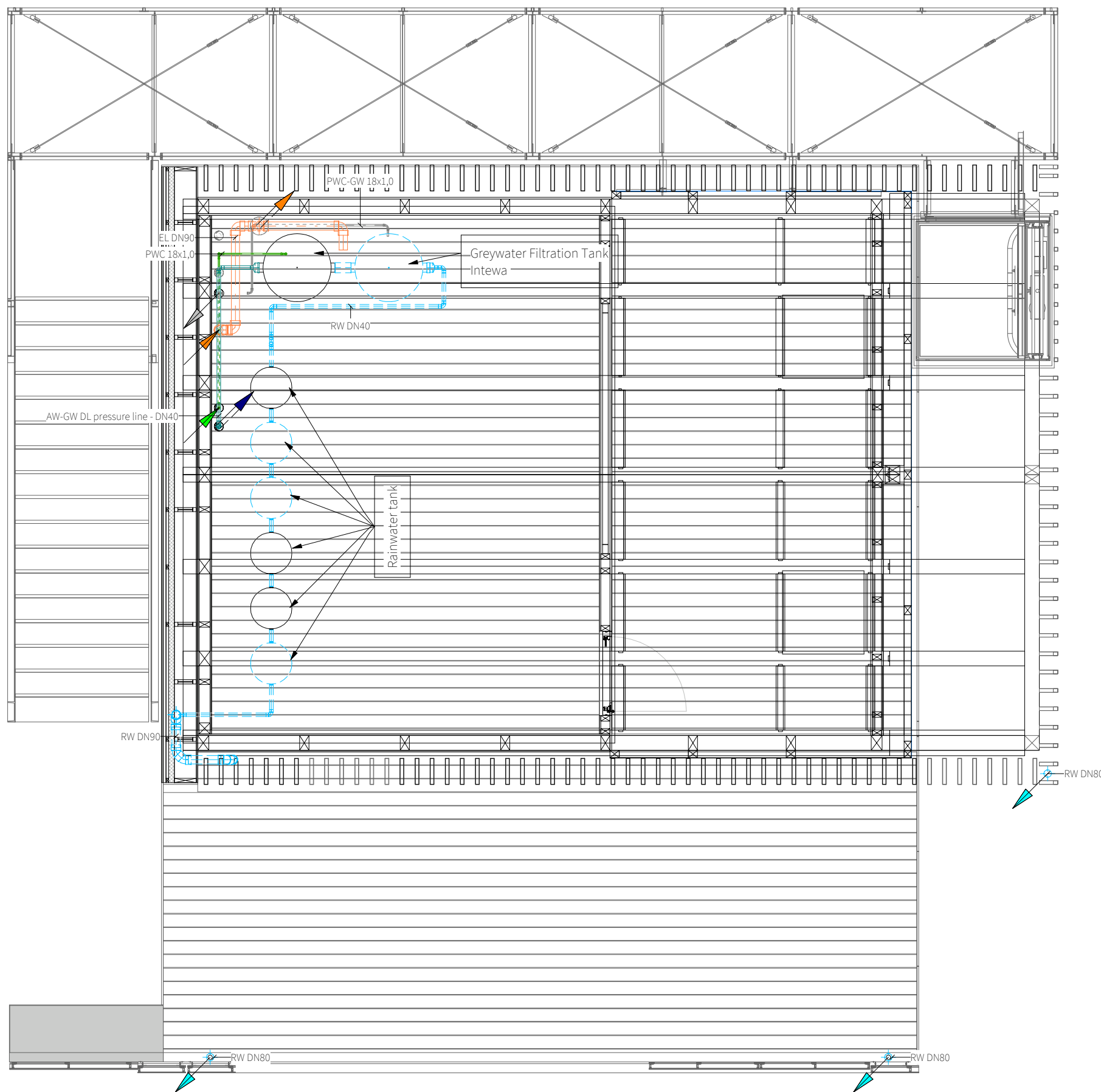
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale 1 : 50 Phase D#6

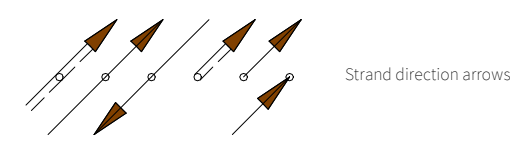
Drawing Content
Sanitary Overview - Level 01

PL-1001





General:



- 1 Angle seat valve
- 2 Pump
- 3 KVR valve
- 4 Filter
- 5 Water meter
- 6 Angle seat valve

Legend:

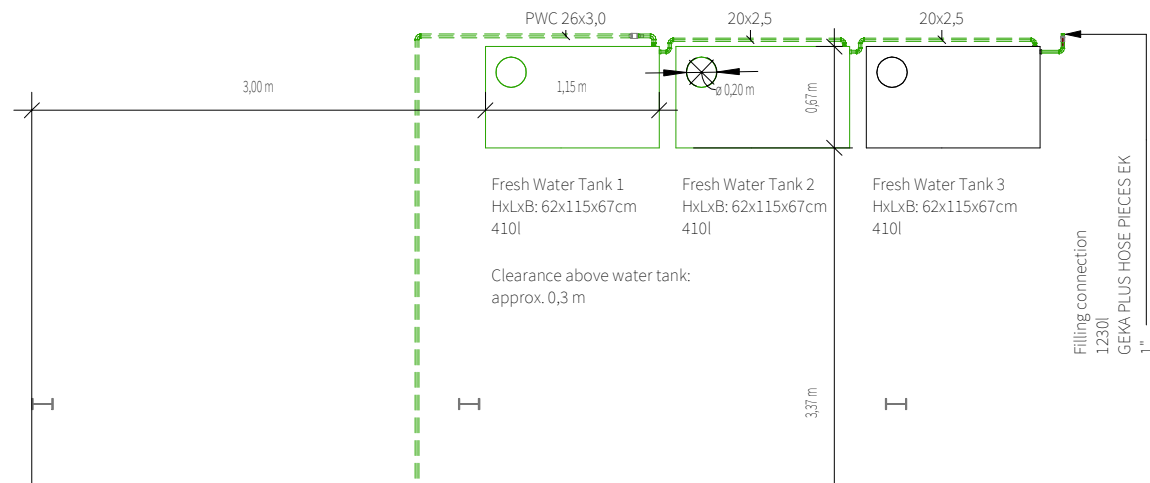
- Fresh Water (PWC)
- Fresh Water preheated (PWC-P)
- Hot Water (PWH)
- Greywater PVC-GW
- Waste Water (AW)
- Waste water to gray water treatment (AW-GW)
- Venting (EL)
- mounting element



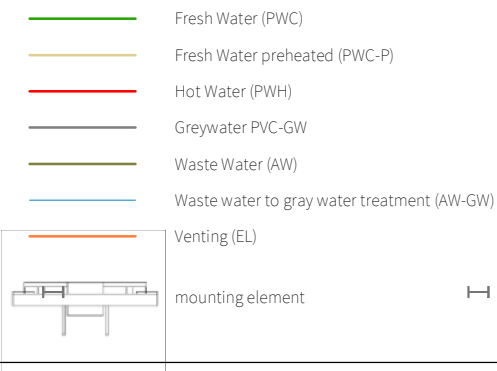
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
1 : 50	D#6

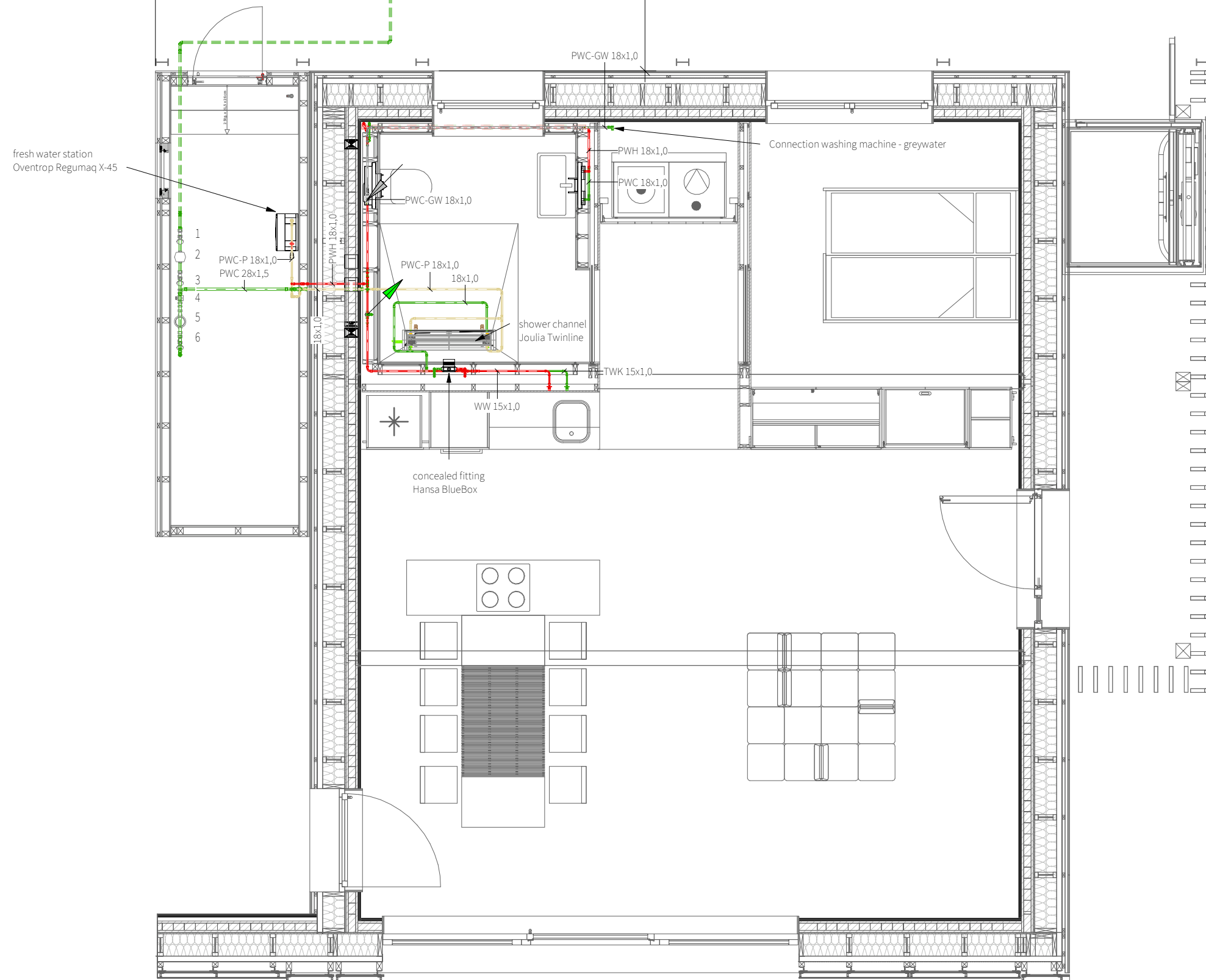
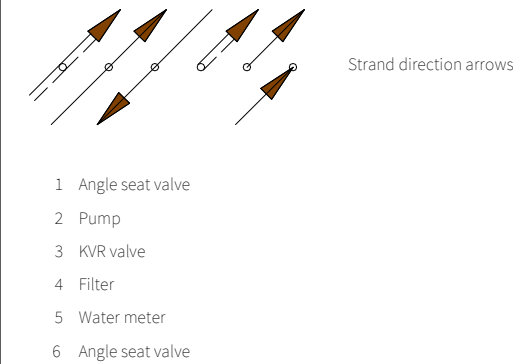
Drawing Content
Sanitary Overview - Level 02



Legend:



General:



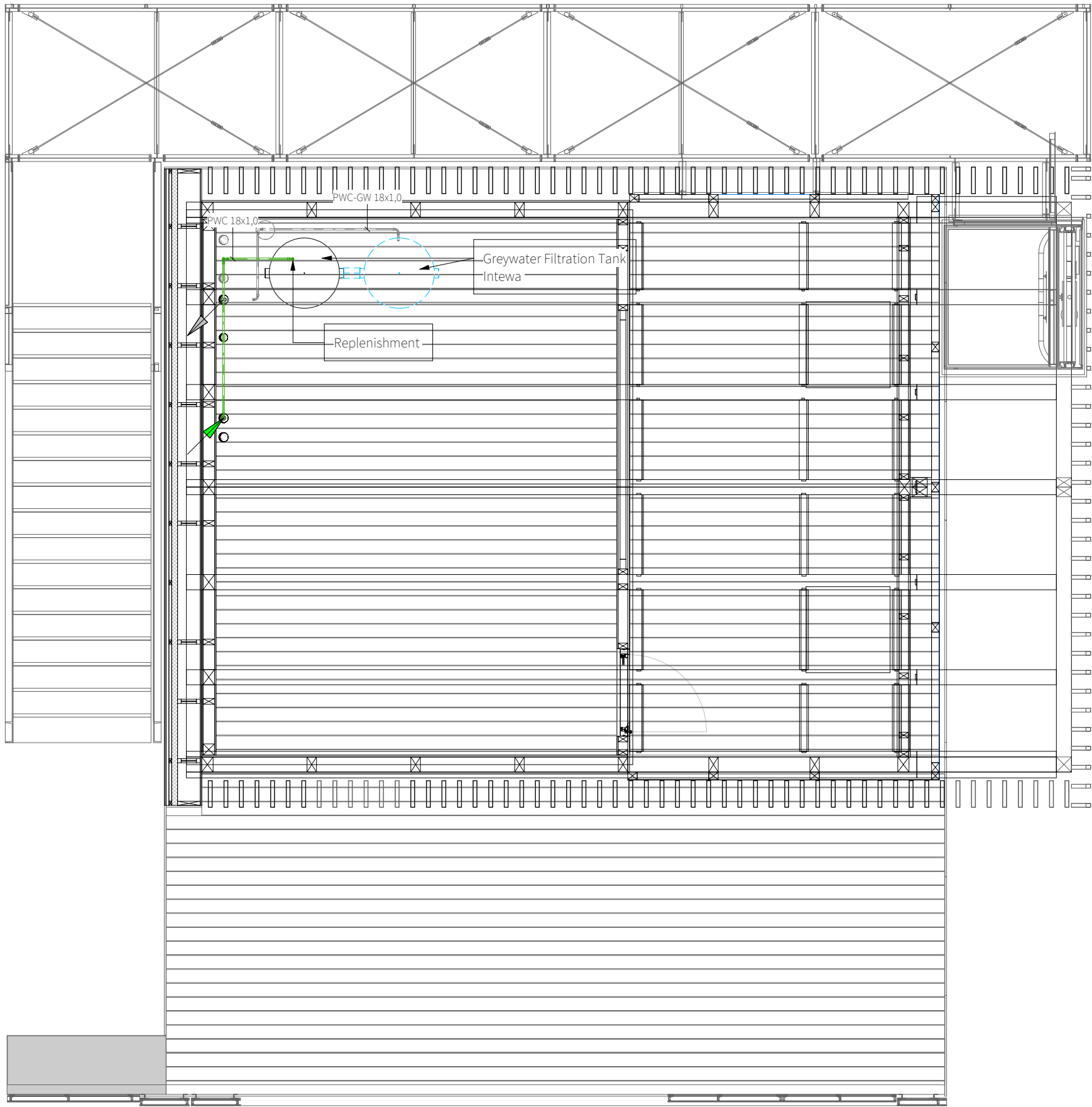
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
1 : 50	D#6

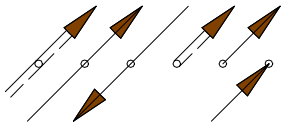
Drawing Content
Plumbing Plan - Level 01

PL-1003





General:



Strand direction arrows

- 1 Angle seat valve
- 2 Pump
- 3 KVR valve
- 4 Filter
- 5 Water meter
- 6 Angle seat valve

Legend:

- Fresh Water (PWC)
- Fresh Water preheated (PWC-P)
- Hot Water (PWH)
- Greywater PVC-GW
- Waste Water (AW)
- Waste water to gray water treatment (AW-GW)



Venting (EL)

mounting element



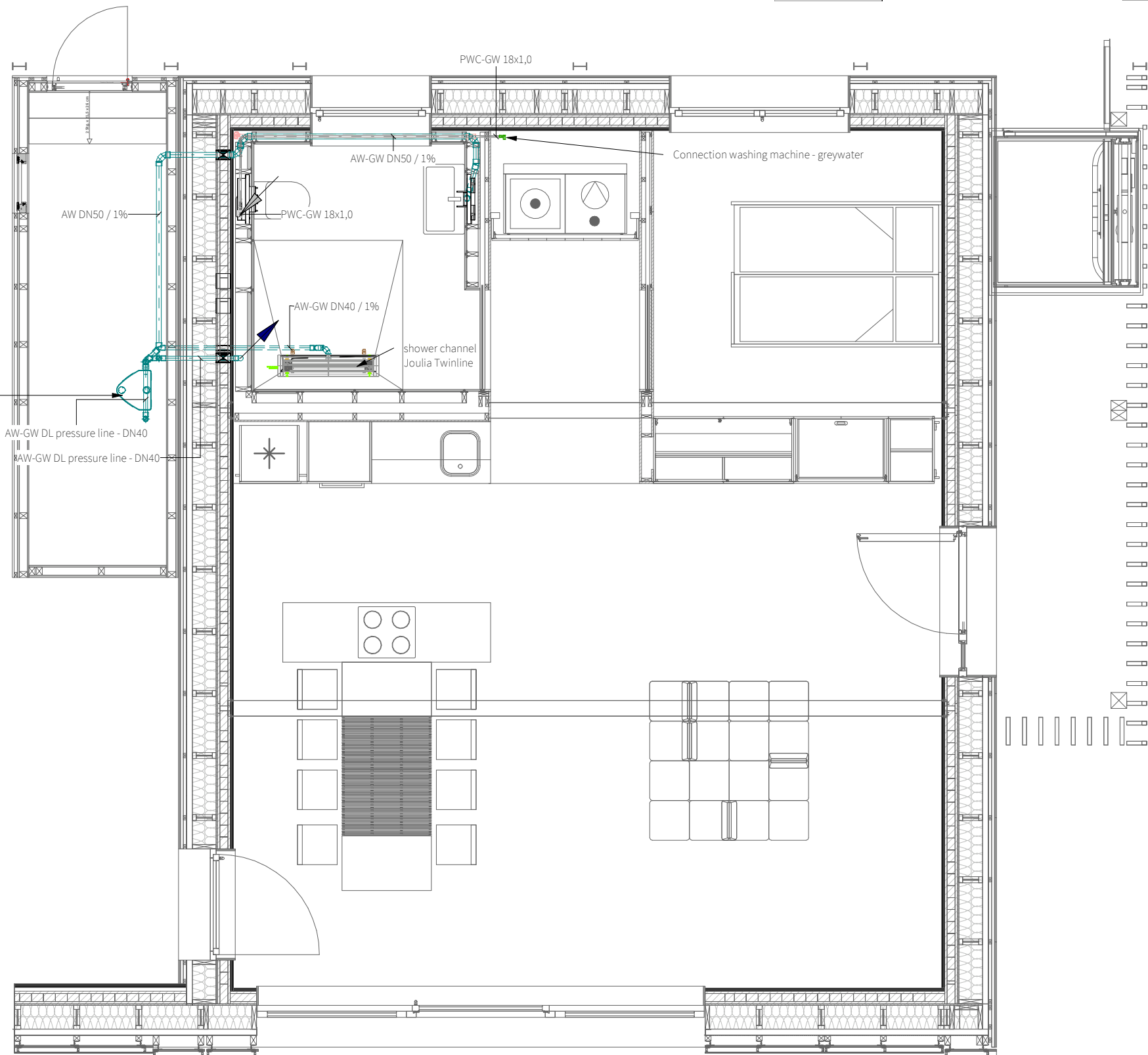
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
1 : 50	D#6

Drawing Content
Pumbing Plan - Level 02

PL-1004





Legend:

- Fresh Water (PWC)
- Fresh Water preheated (PWC-P)
- Hot Water (PWH)
- Greywater PVC-GW
- Waste Water (AW)
- Waste water to gray water treatment (AW-GW)
- Venting (EL)
- mounting element

General:

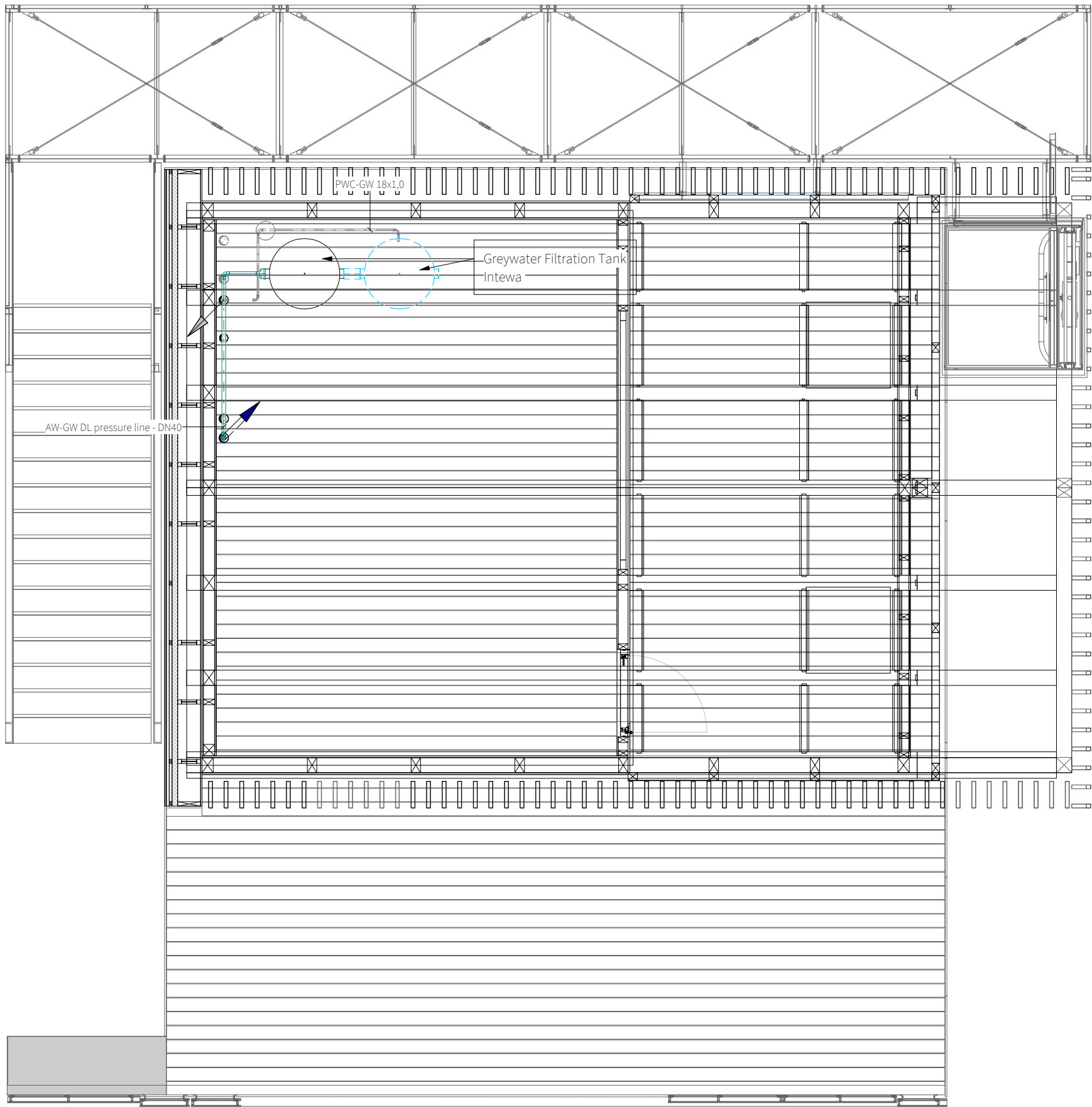
- Strand direction arrows
- 1 Angle seat valve
- 2 Pump
- 3 KVR valve
- 4 Filter
- 5 Water meter
- 6 Angle seat valve



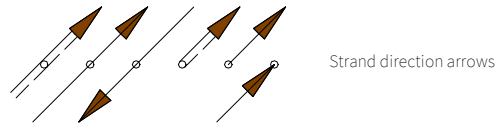
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
1 : 50	D#6

Drawing Content
Greywater - Level01



General:



- 1 Angle seat valve
- 2 Pump
- 3 KVR valve
- 4 Filter
- 5 Water meter
- 6 Angle seat valve

Legend:

- Fresh Water (PWC)
- Fresh Water preheated (PWC-P)
- Hot Water (PWH)
- Greywater PVC-GW
- Waste Water (AW)
- Waste water to gray water treatment (AW-GW)
- Venting (EL)
- mounting element



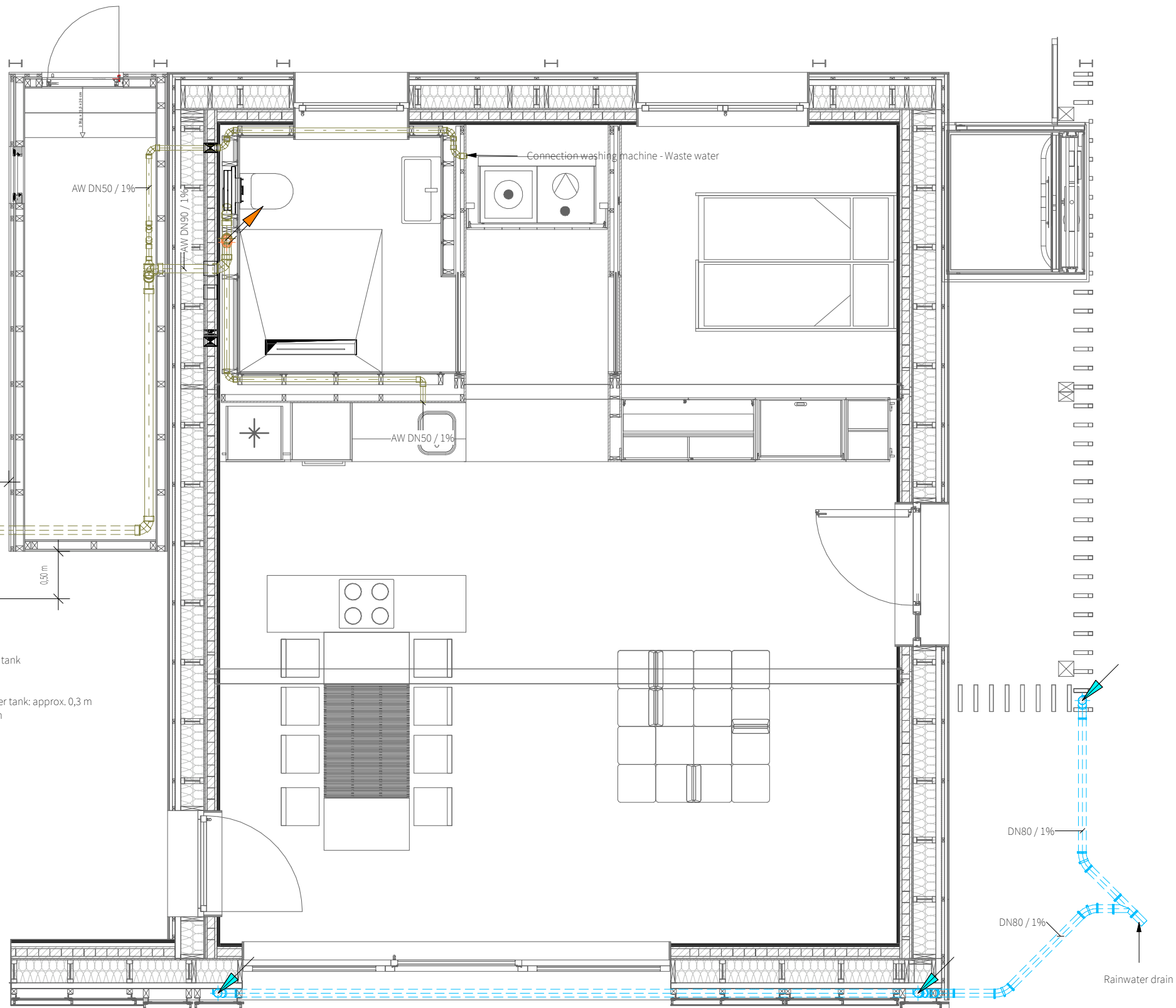
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
1 : 50	D#6

Drawing Content
Greywater - Level 02

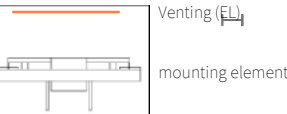
PL-2002





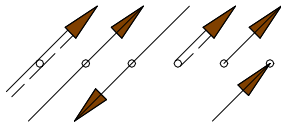
Legend:

- Fresh Water (PWC)
- Fresh Water preheated (PWC-P)
- Hot Water (PWH)
- Greywater PVC-GW
- Waste Water (AW)
- Waste water to gray water treatment (AW-GW)



mounting element

General:



Strand direction arrows

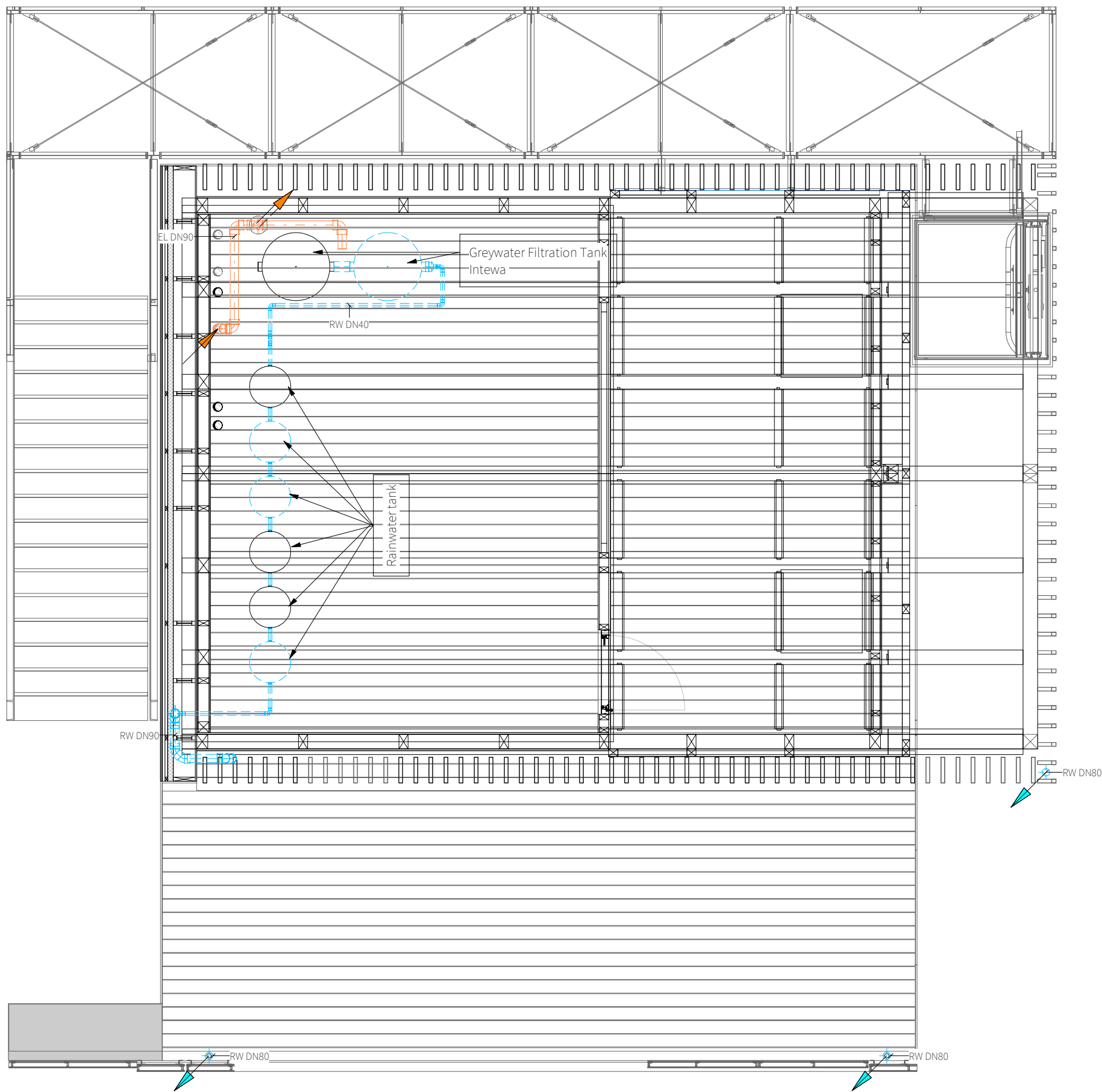
- Angle seat valve
- Pump
- KVR valve
- Filter
- Water meter
- Angle seat valve



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
1 : 50	D#6

Drawing Content
Drain / Waste / Vent - Level 01



General:

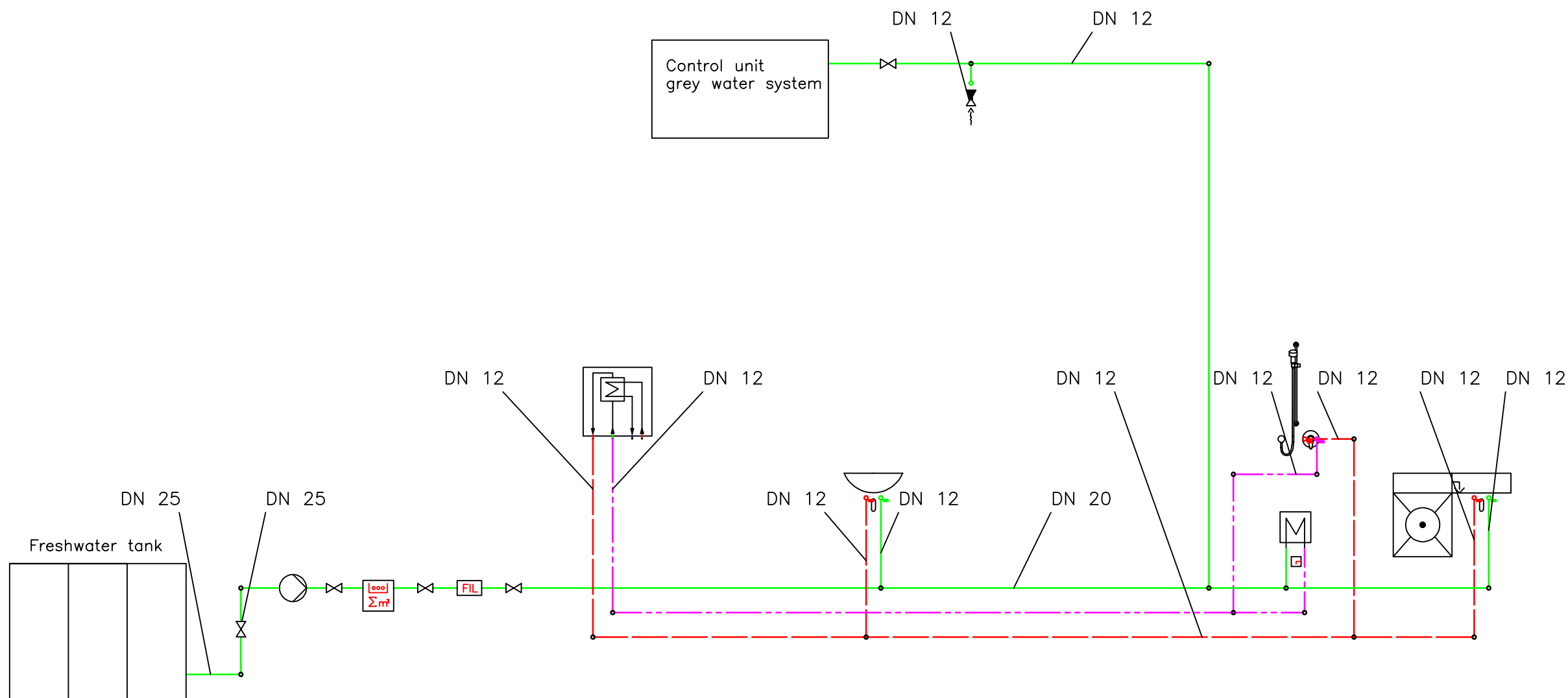
Strand direction arrows

- 1 Angle seat valve
- 2 Pump
- 3 KVR valve
- 4 Filter
- 5 Water meter
- 6 Angle seat valve

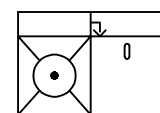
Legend:

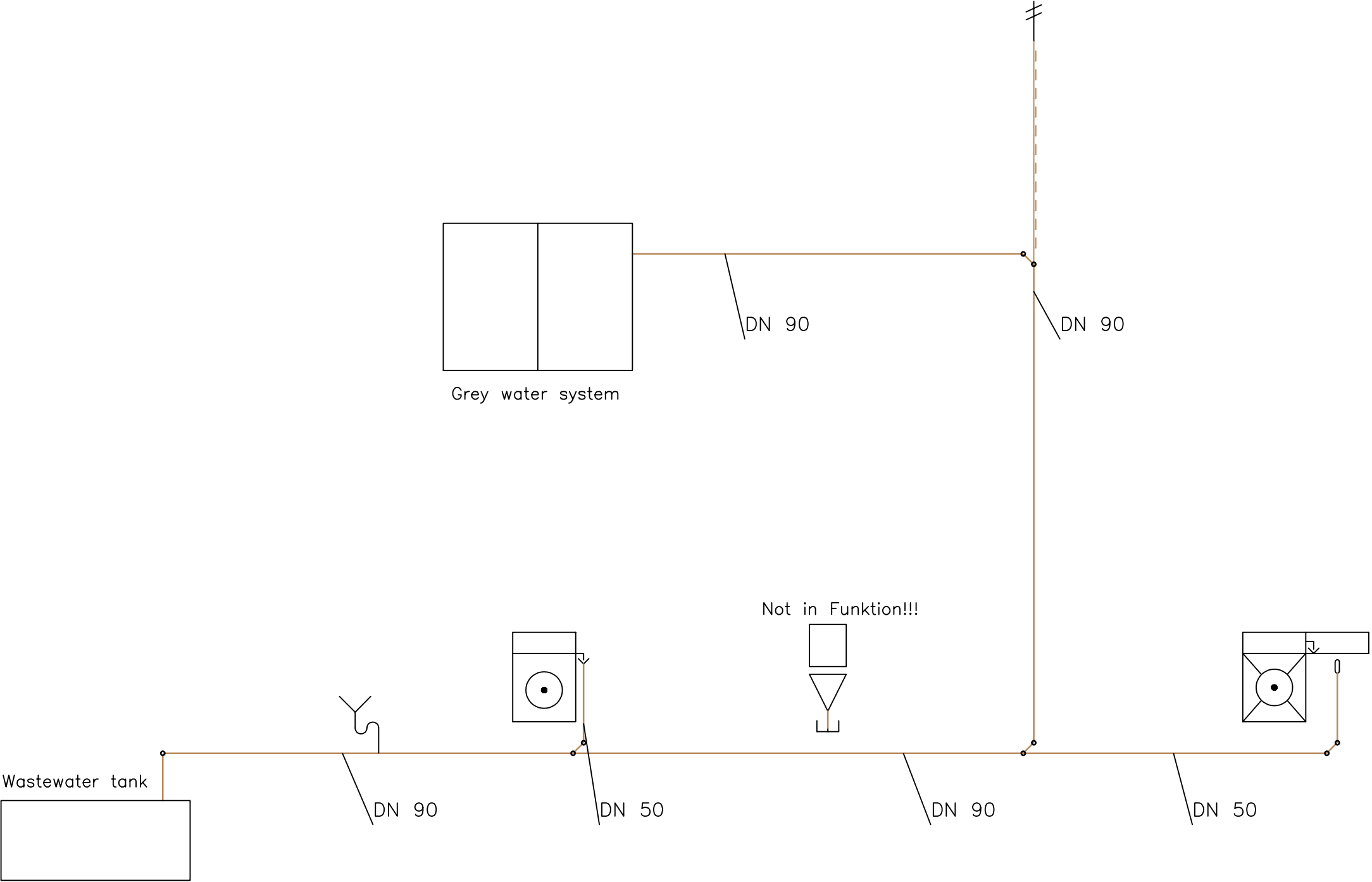
- Fresh Water (PWC)
- Fresh Water preheated (PWC-P)
- Hot Water (PWH)
- Greywater PVC-GW
- Waste Water (AW)
- Waste water to gray water treatment (AW-GW)
- Venting (EL)
- mounting element

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



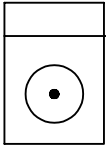
Legend:

	Potable water cold		Shut-off fitting
	Potable water hot		Outlet fitting
	Potable water cold pre-heated		Pump
	Kitchen unit		Water meter
	Heat exchanger		Shower channel heat exchanger
	Shower		Water filter
			Washbasin

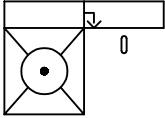


Legend:

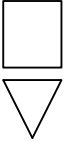
Waste water



Washing machine



Kitchen unit



Toilet



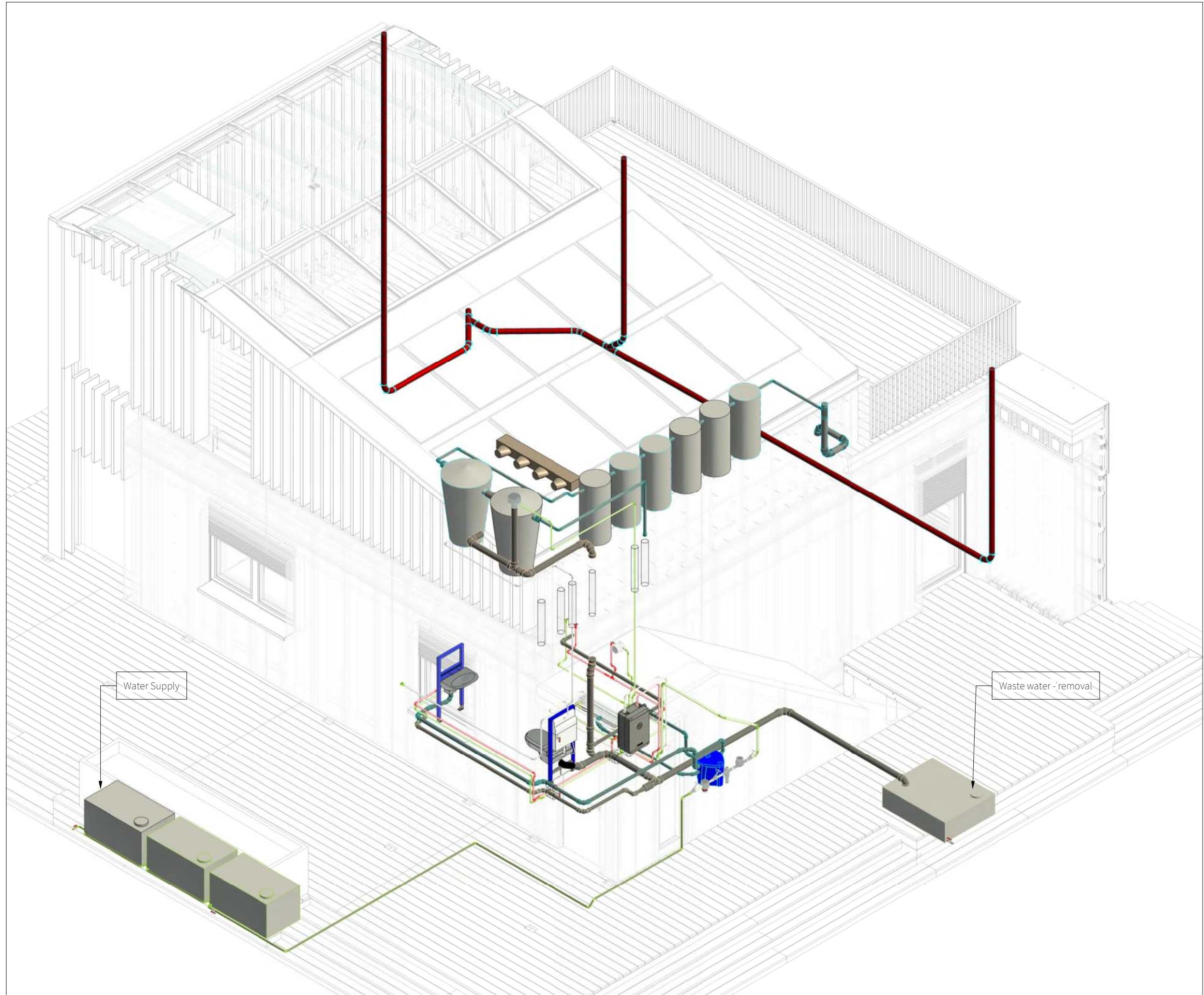
Flange with shut-off cap DN 100



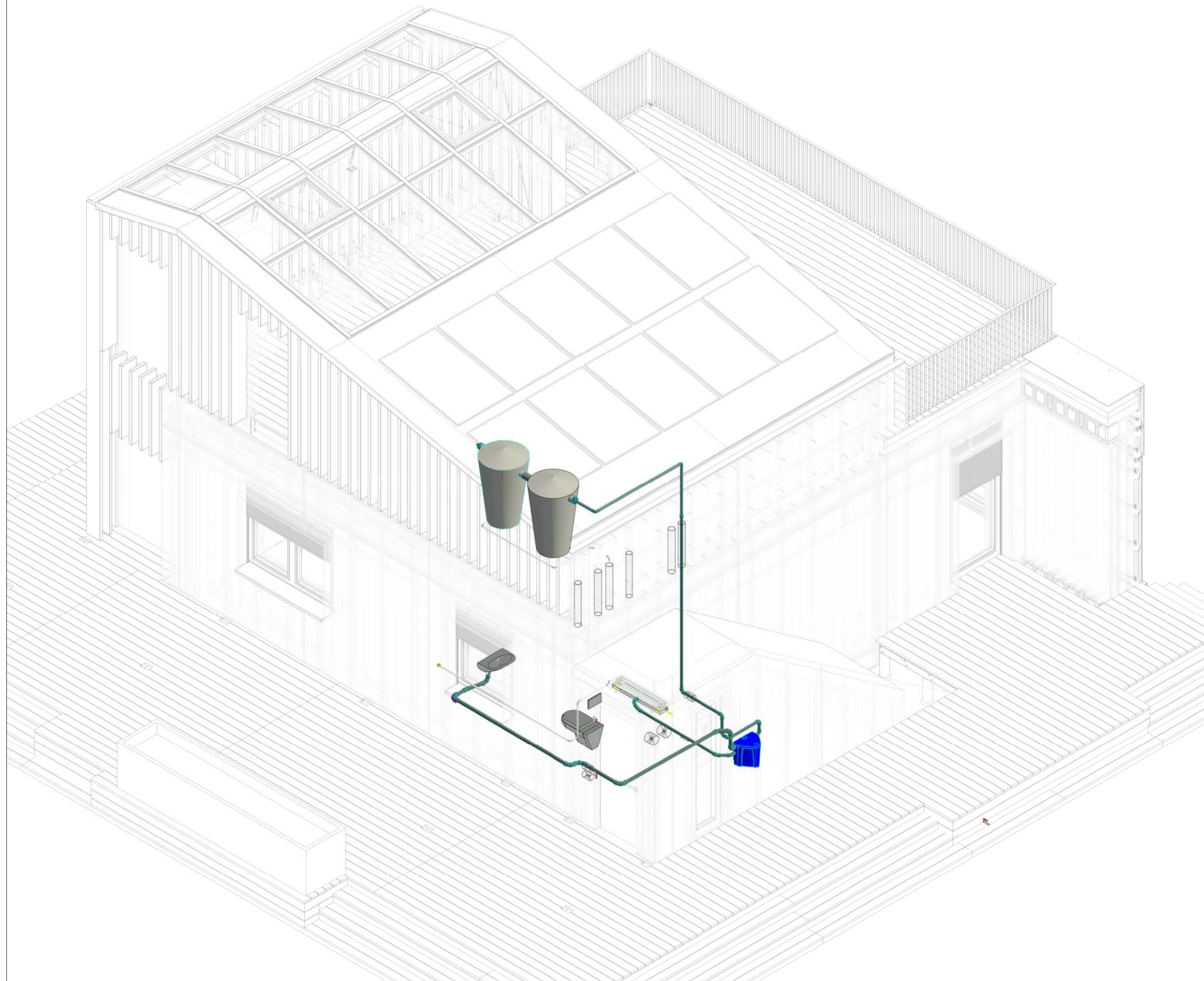
Funnel siphon



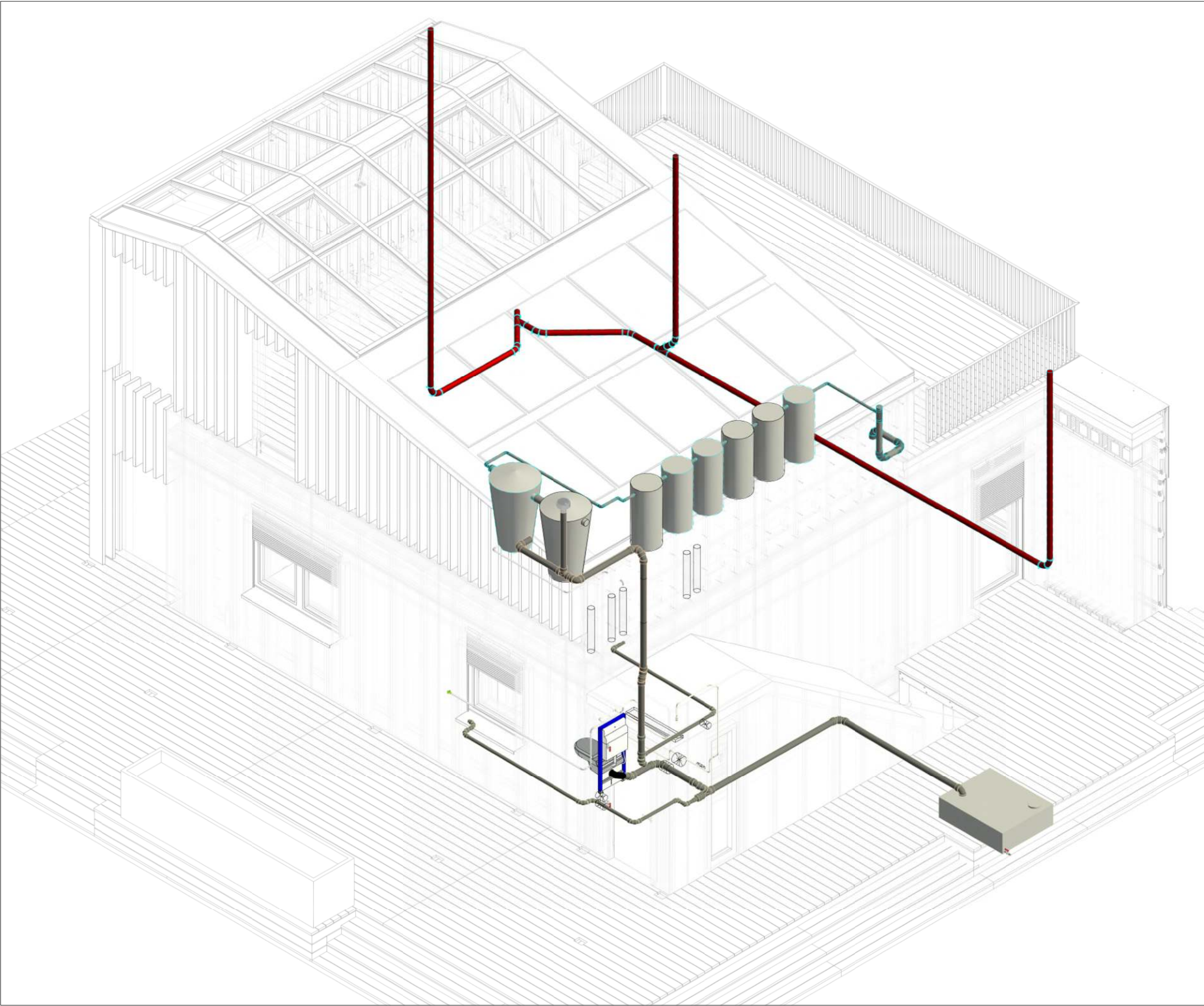
Ventilation and deaeration



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

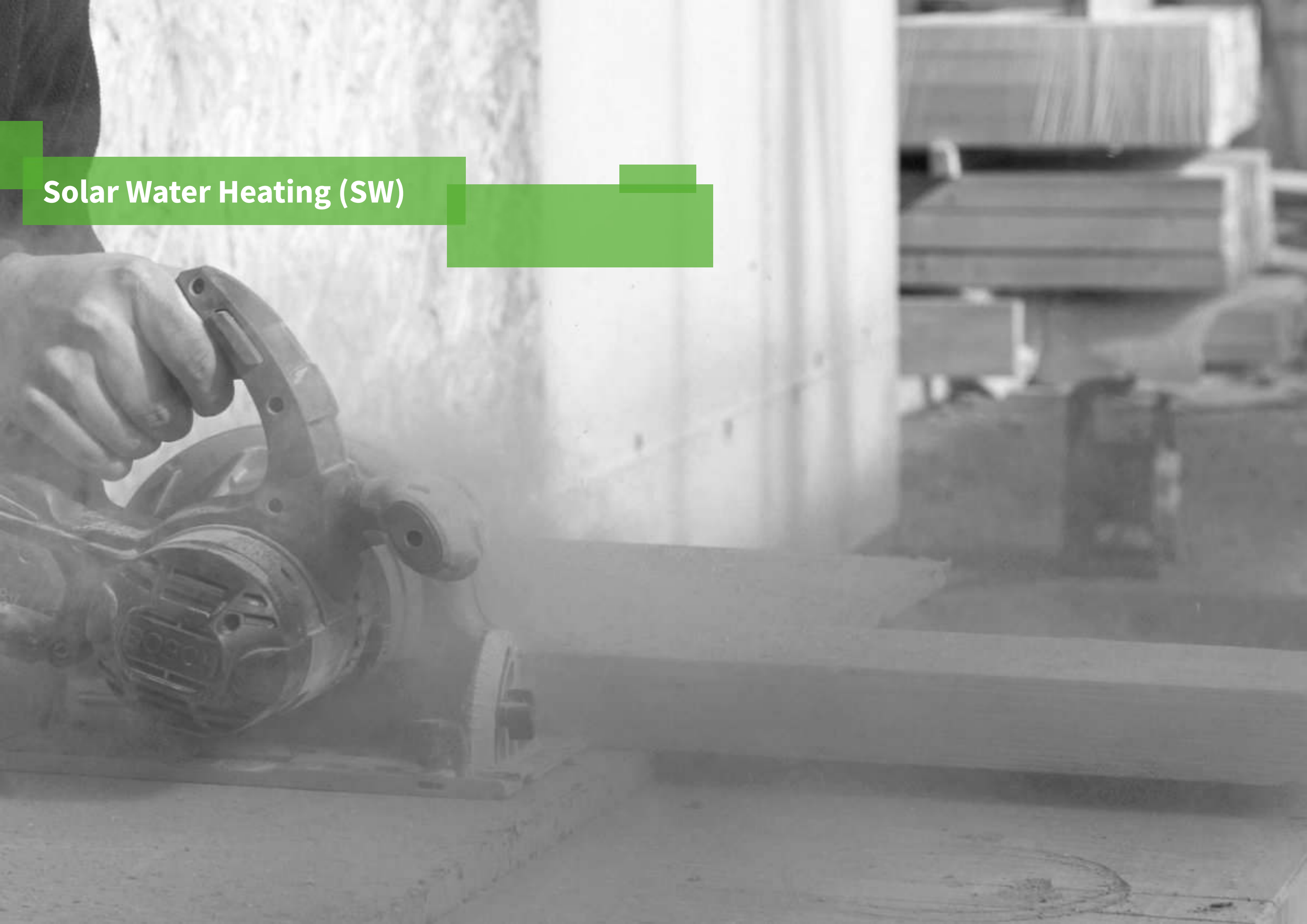


General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

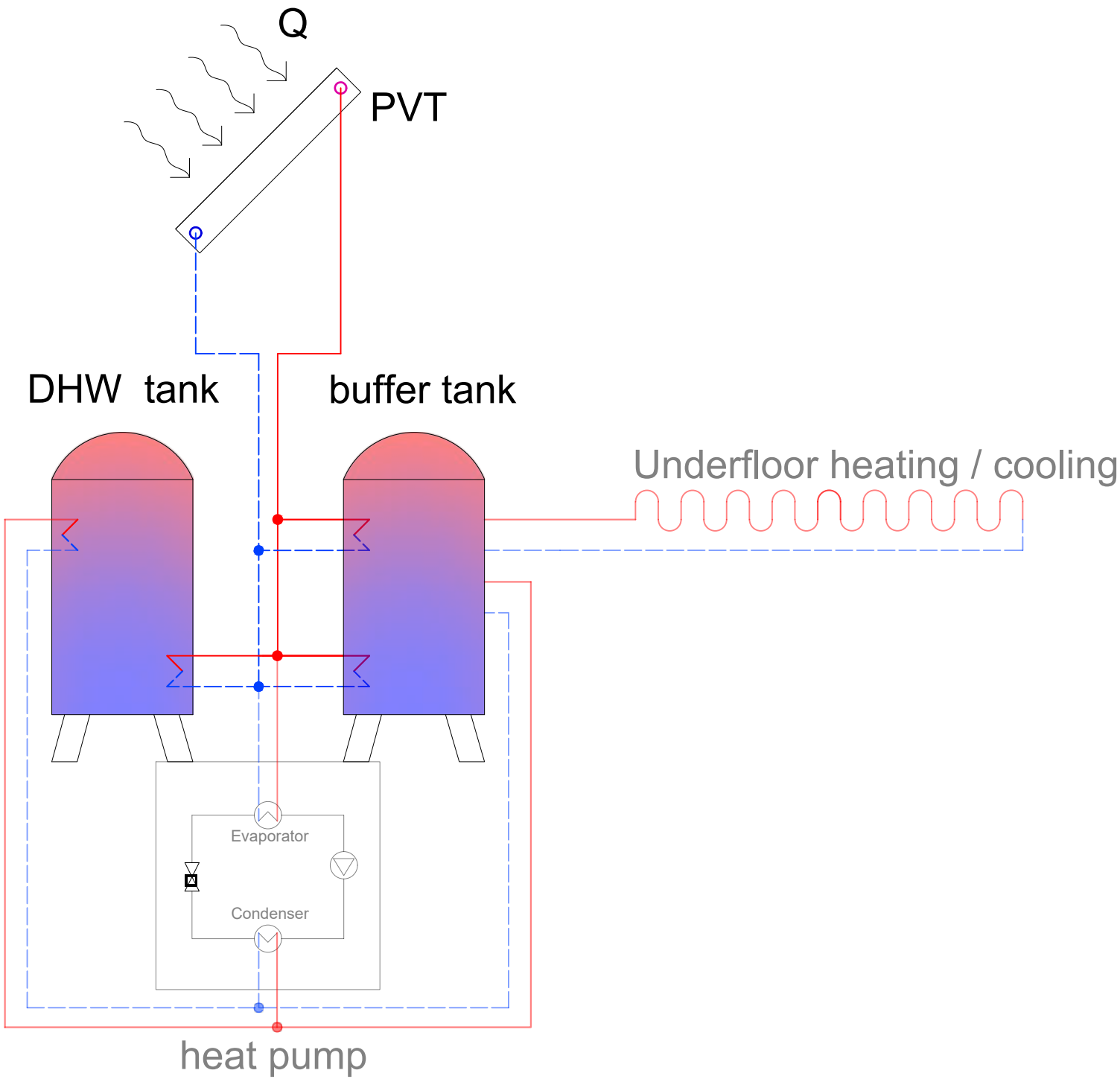
Scale	Phase
	D#6

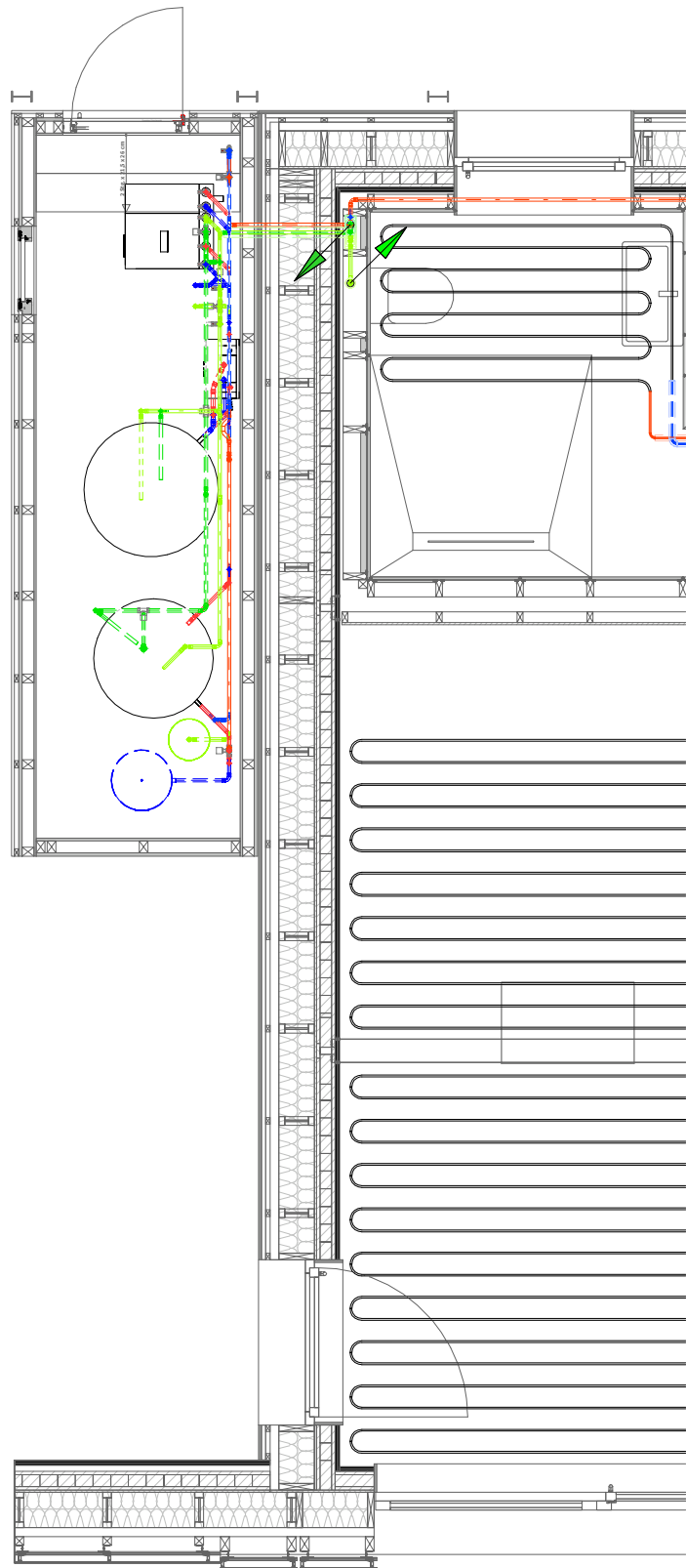
Drawing Content
Drain Waste Vent Isometric

Solar Water Heating (SW)

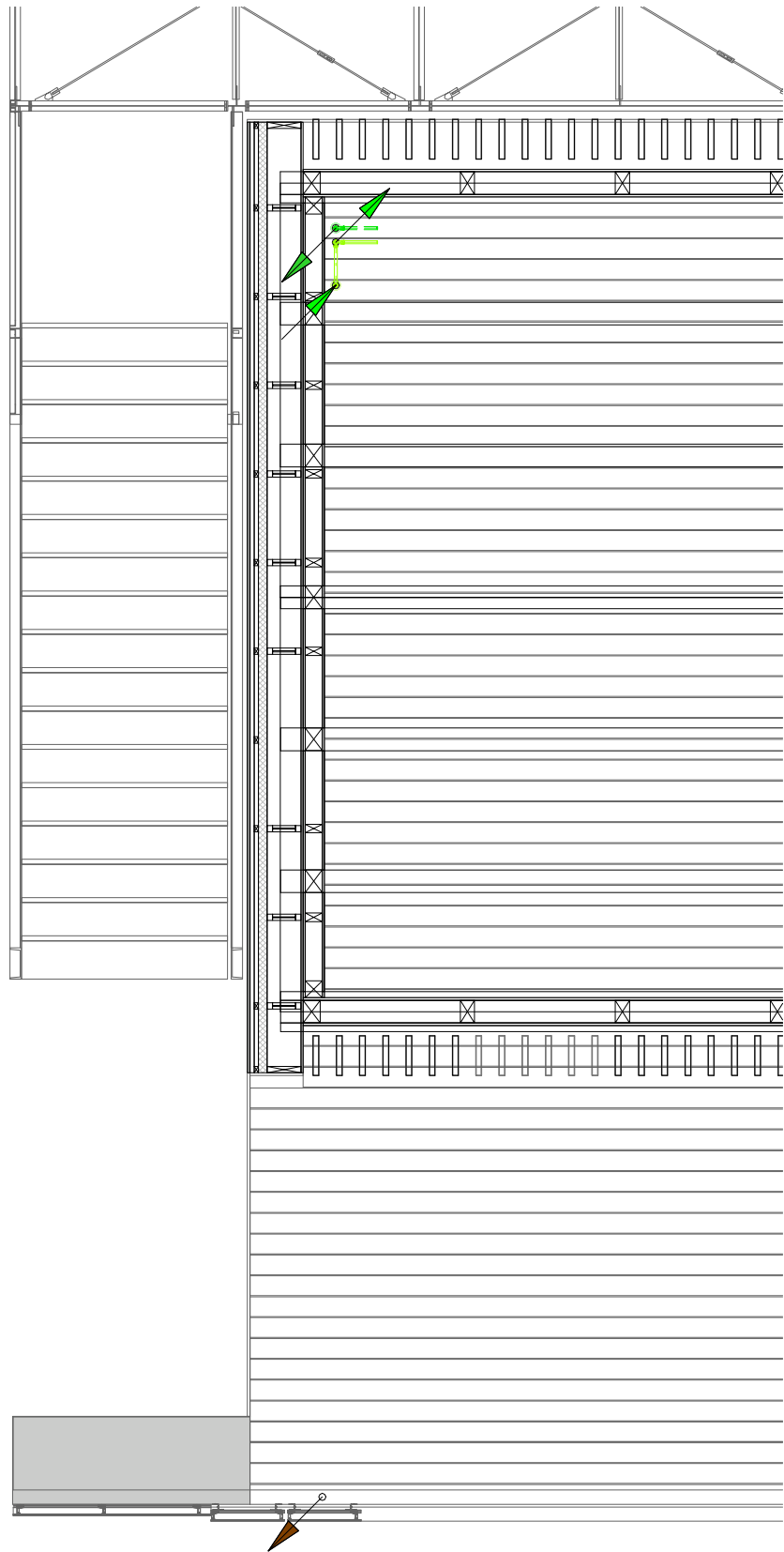


General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT





Solar Water Heating - Level 01



Solar Water Heating - Level 02

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

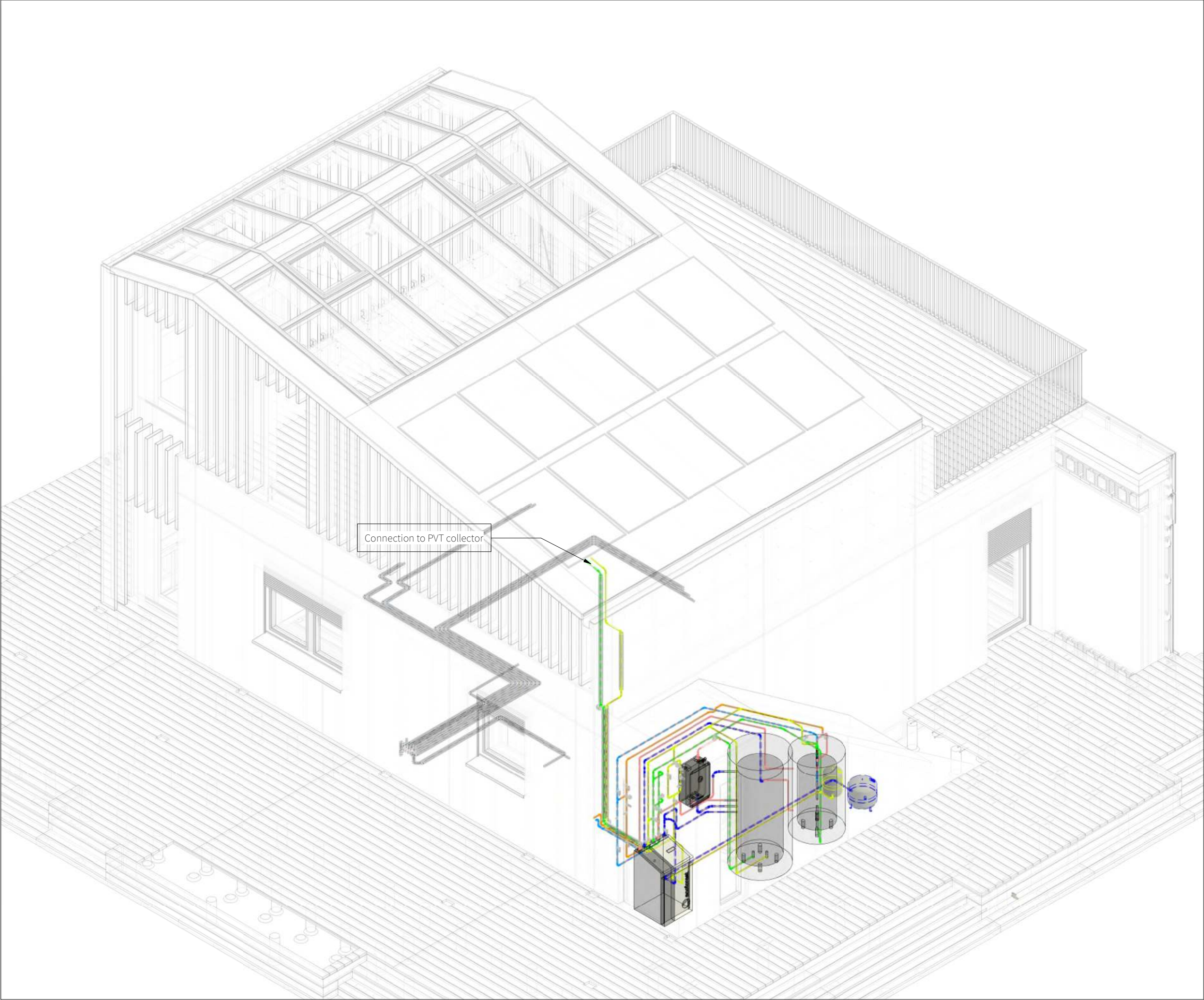
Legend:

-  PVT flow heating
-  PVT return heating

Scale	Phase
1 : 50	D#6

Drawing Content
Plan - Level 01 + 02





General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

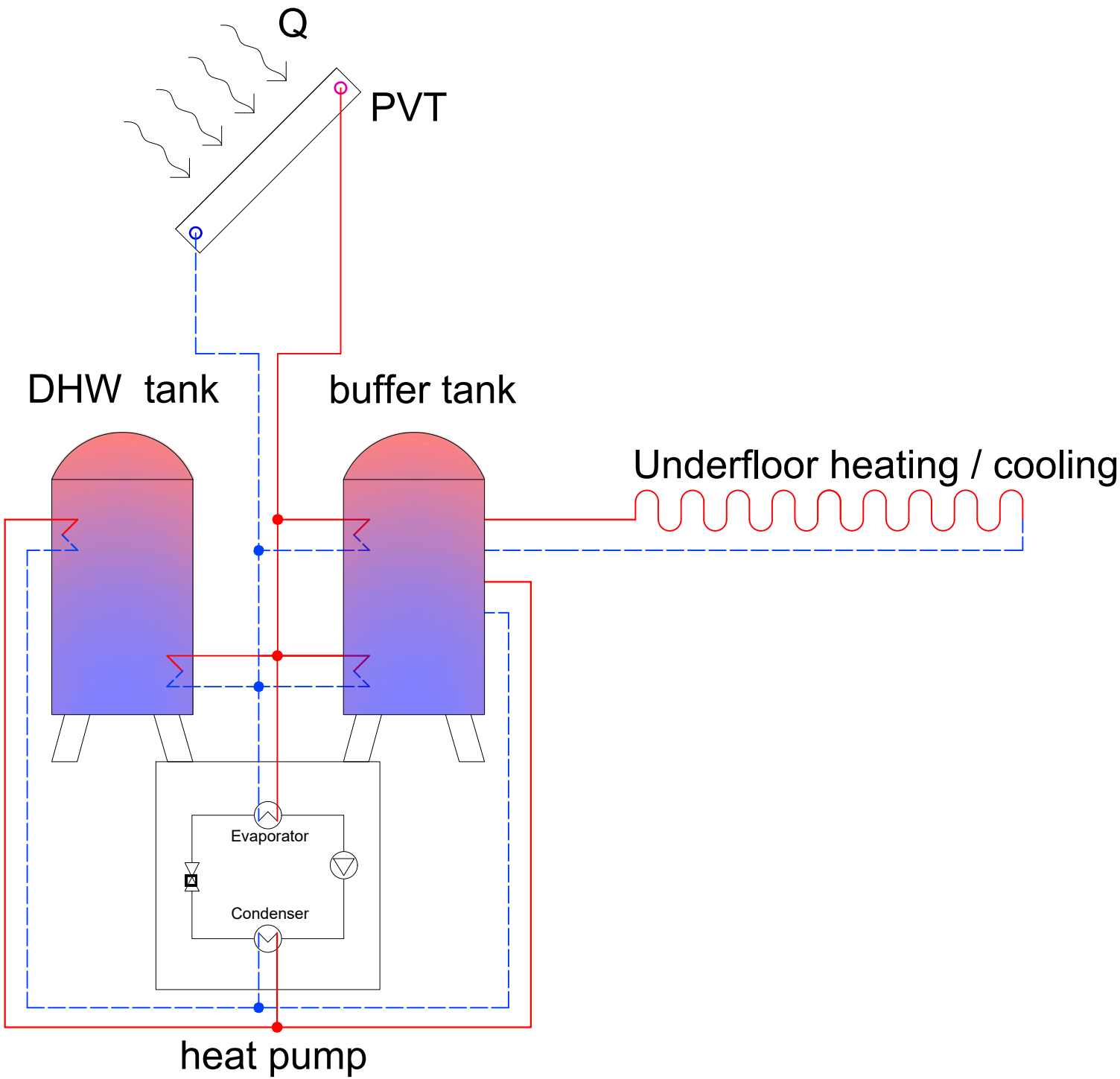
Scale	Phase
	D#6

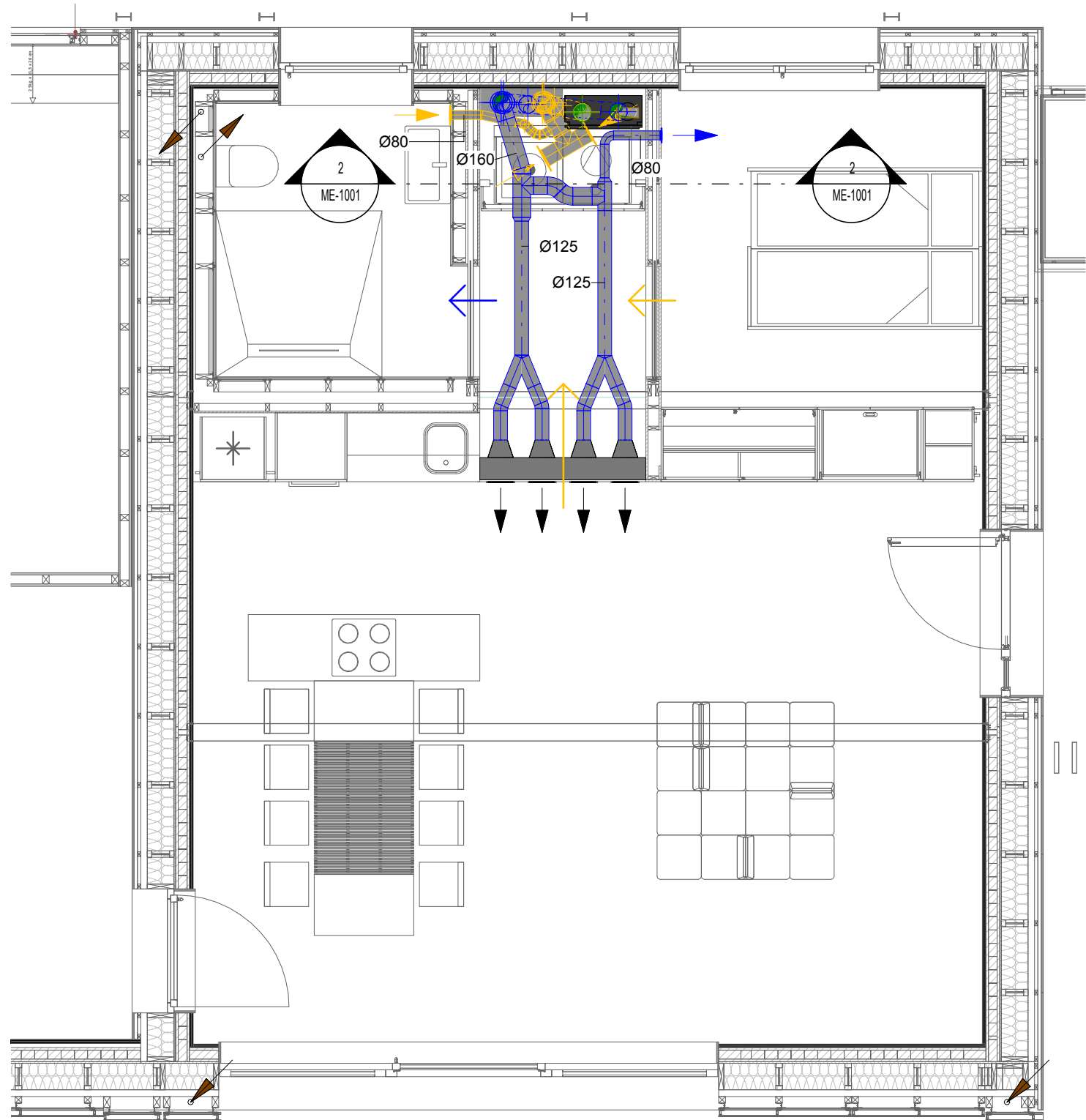
Drawing Content
Solar Water Heating - Isometric

Mechanical (ME)



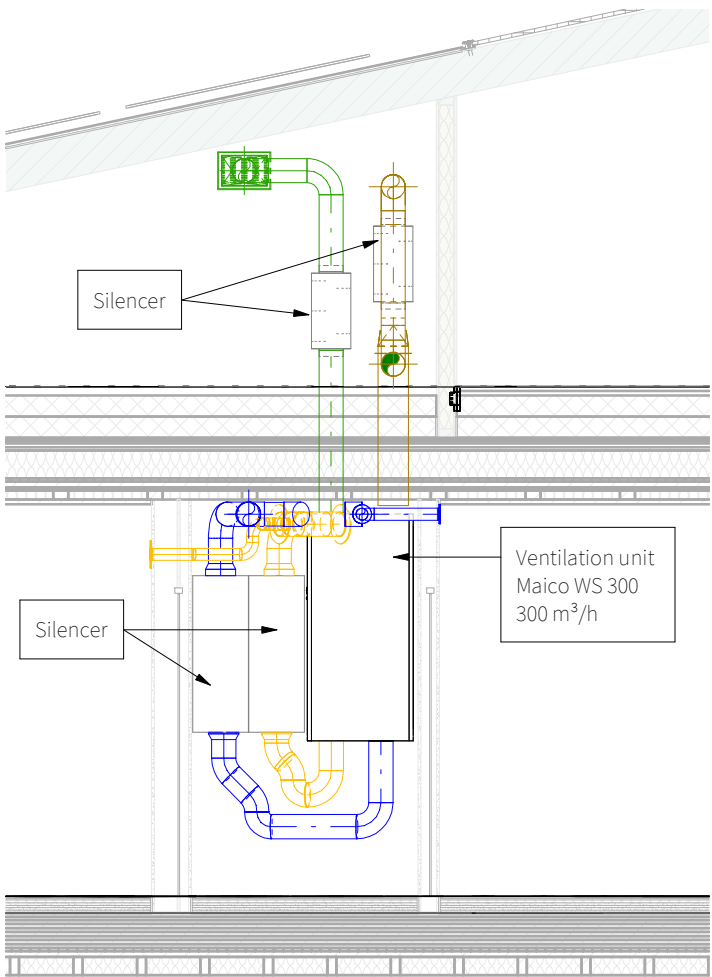
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT





Legend:

- Supply air
- Exhaust air
- Outside air
- Exhaust air
- Silencer round
- Splitter silencer
- Volume flow controller
- Throttle valve



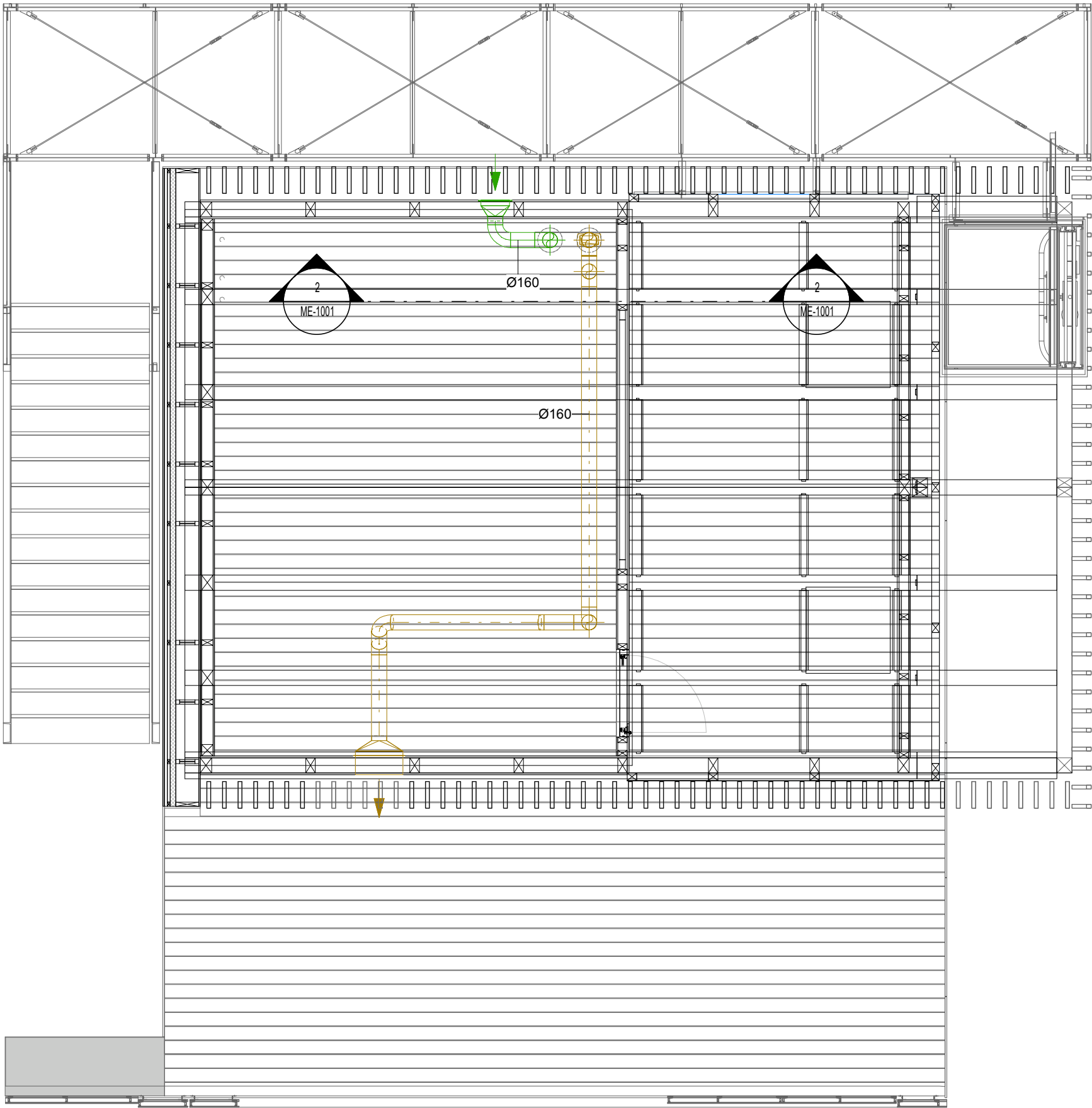
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale 1 : 50 Phase D#6

Drawing Content
HVAC distribution Plan - Level01

ME-1001





Legend:

- Supply air
- Exhaust air
- Outside air
- Exhaust air
- Silencer round
- Splitter silencer
- Volume flow controller
- Throttle valve



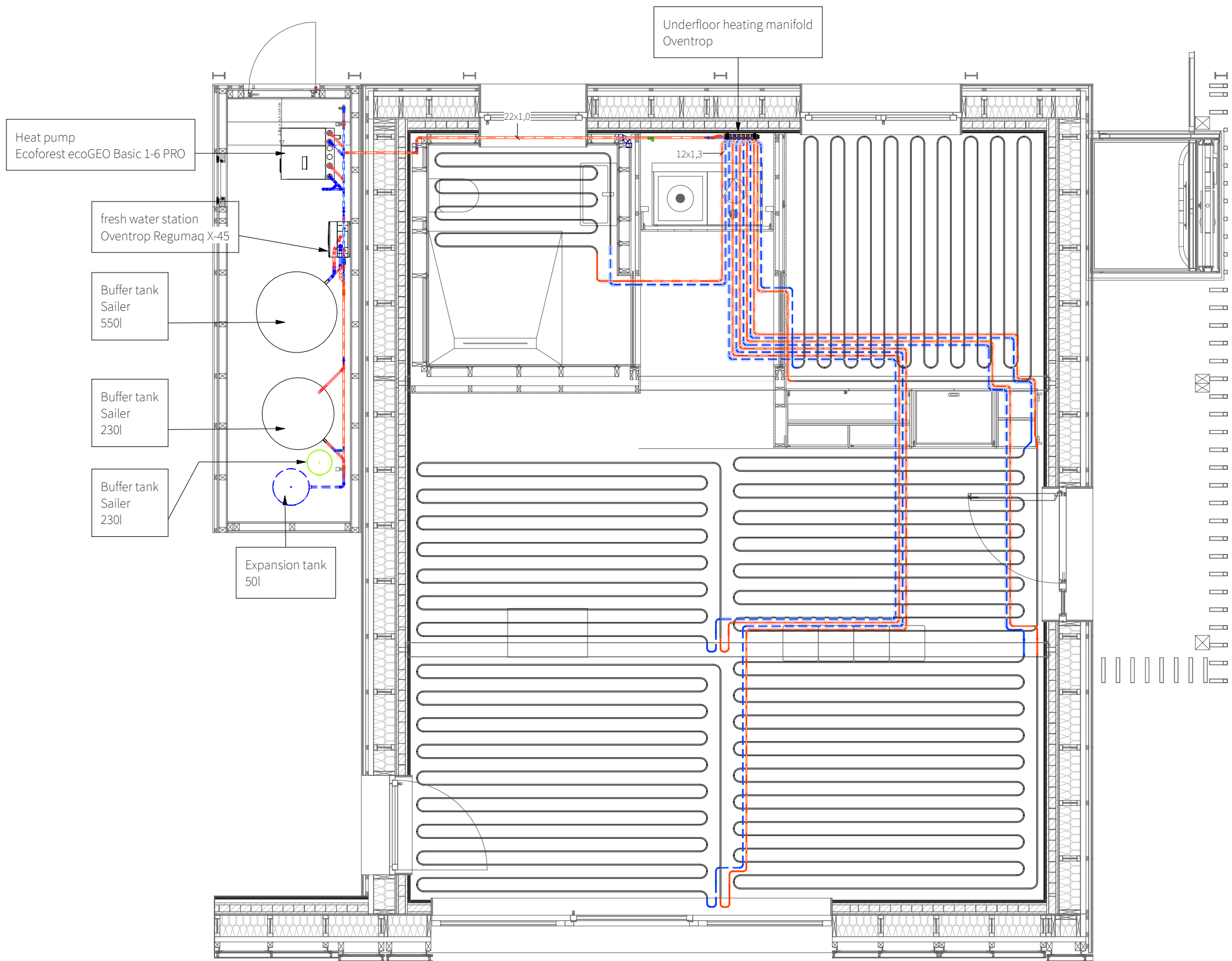
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
1 : 50	D#6

Drawing Content
HVAC distribution Plan - Level02

ME-1002





Legend:

- flow heating
- - - return heating



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

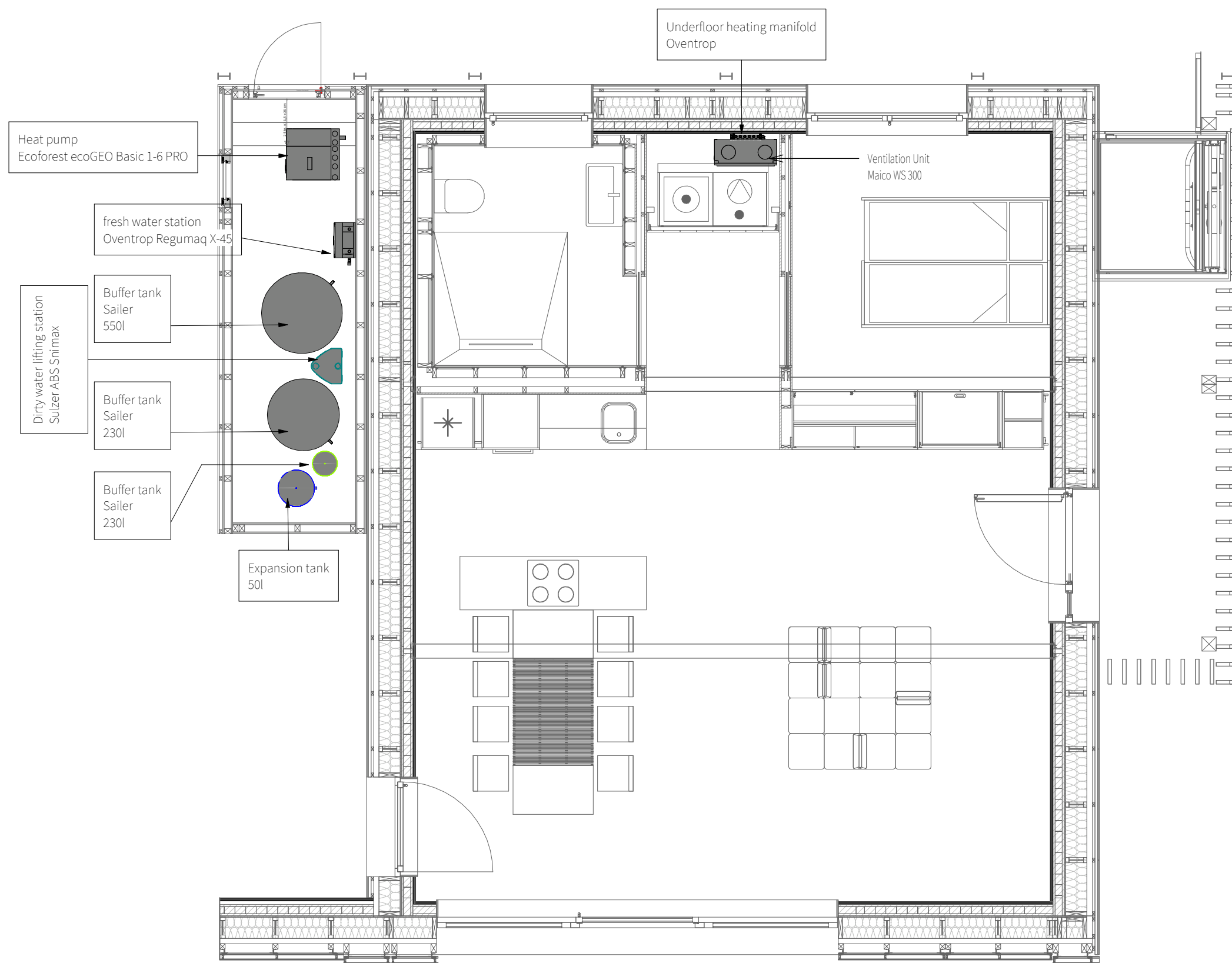
Scale
1 : 50

Phase
D#6

Drawing Content
HVAC distribution Plan - Level 01

ME-1003





General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

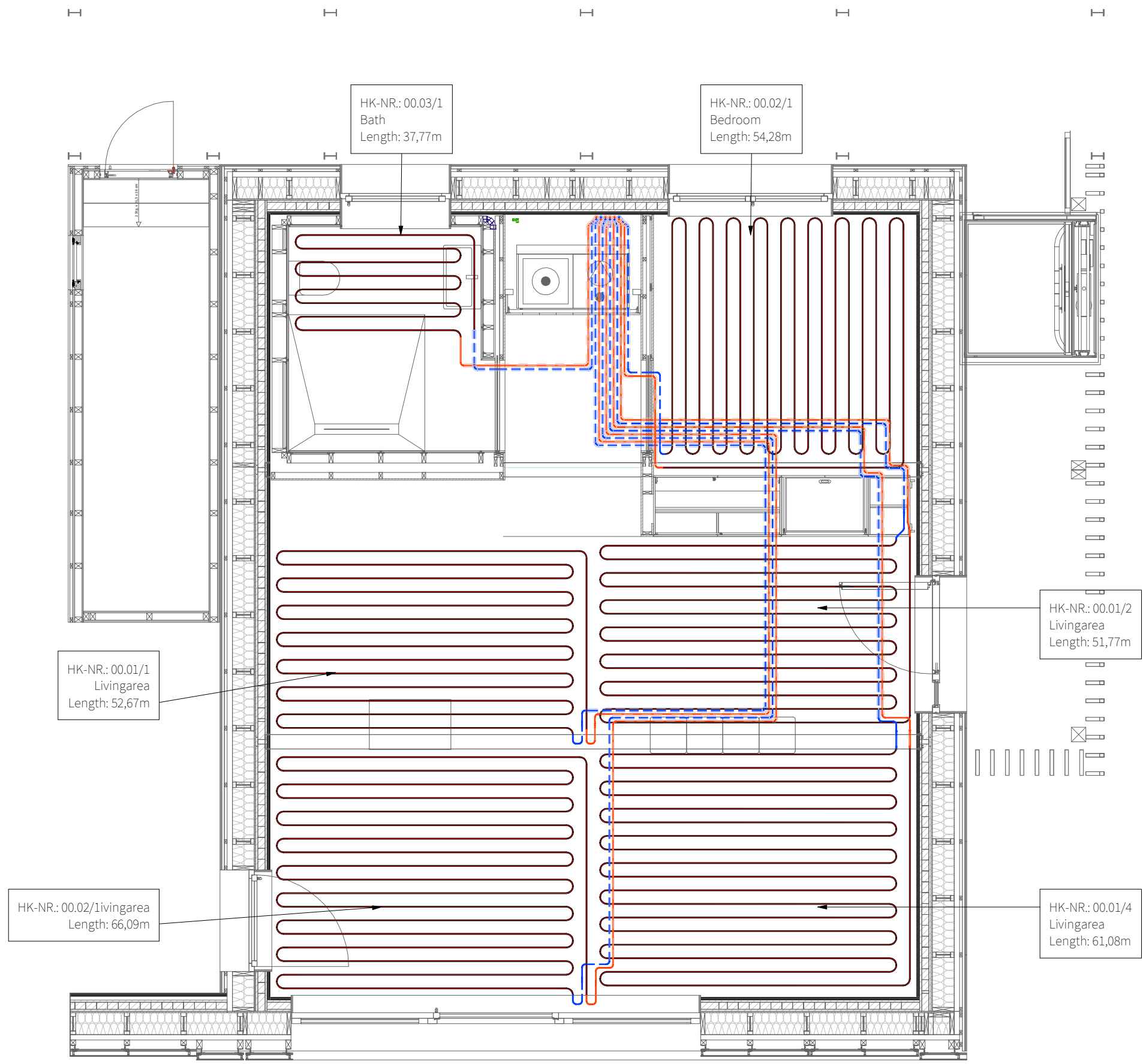
Scale
1 : 50

Phase
D#6

Drawing Content
HVAC equipment - Level 01

ME-1101

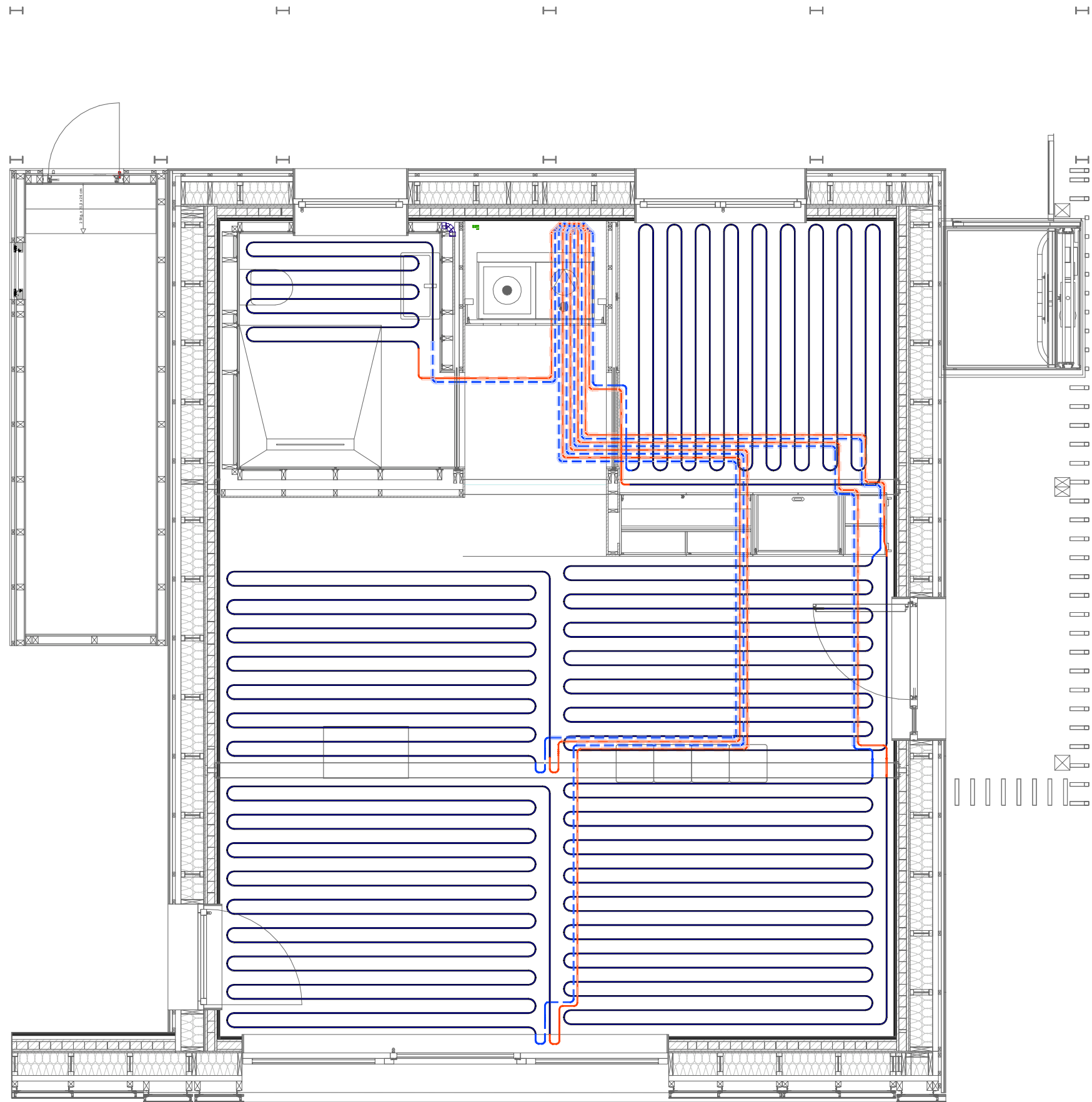




General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
1 : 50	D#6

Drawing Content
Heating - Level01



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

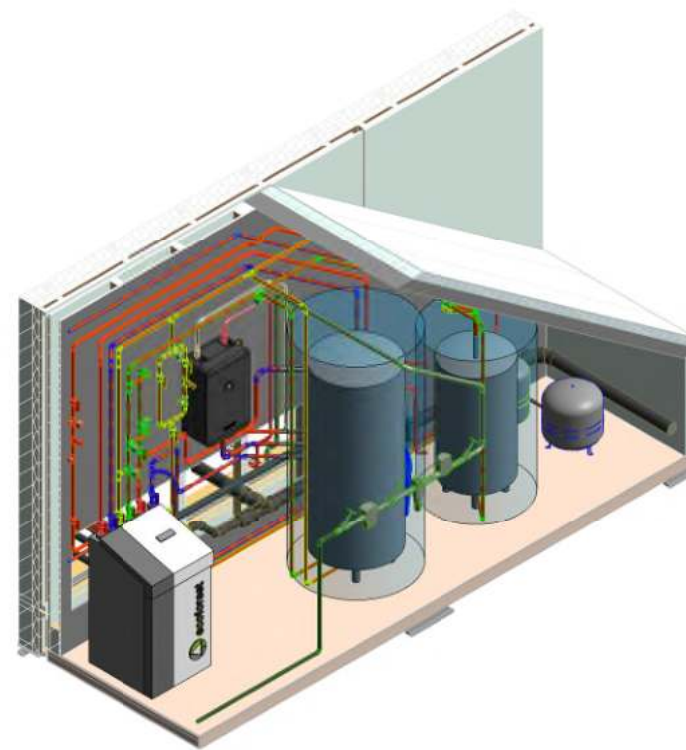
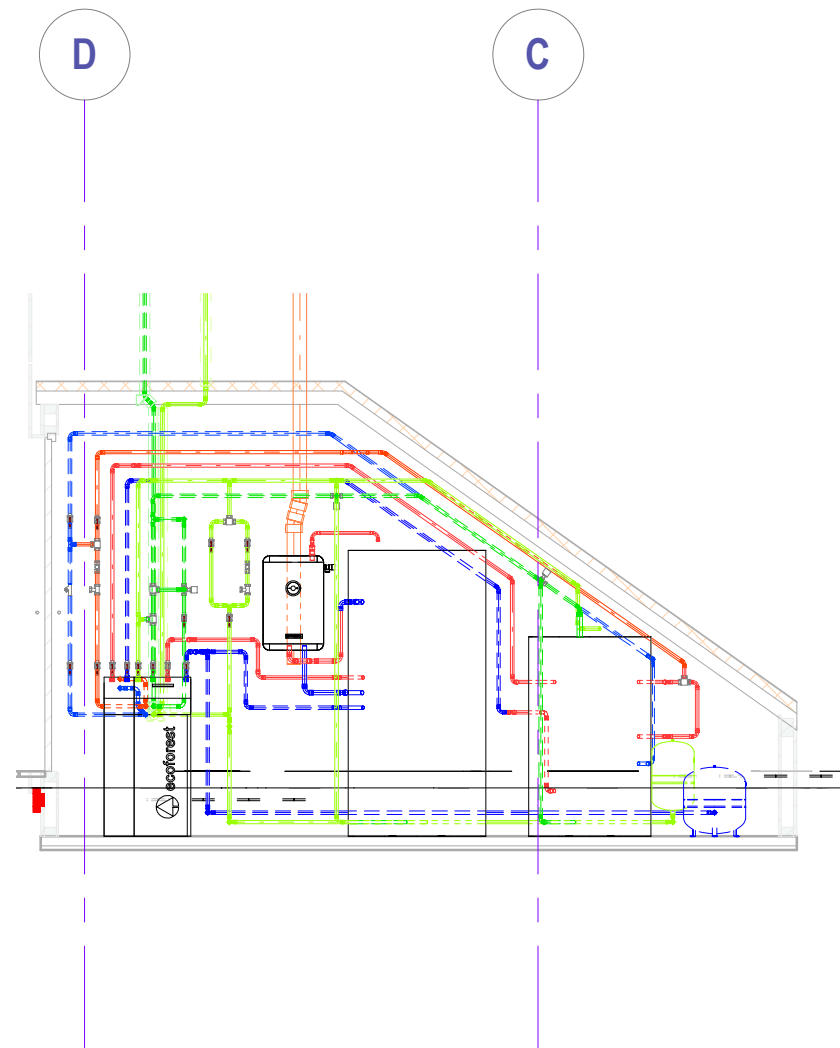
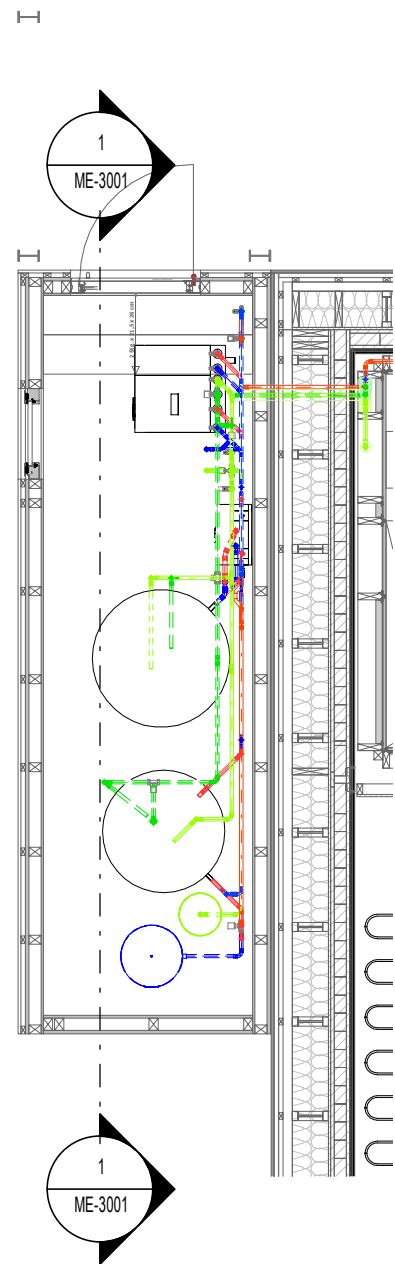
Scale
1 : 50

Phase
D#6

Drawing Content
Cooling - Level 01

ME-2002





General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

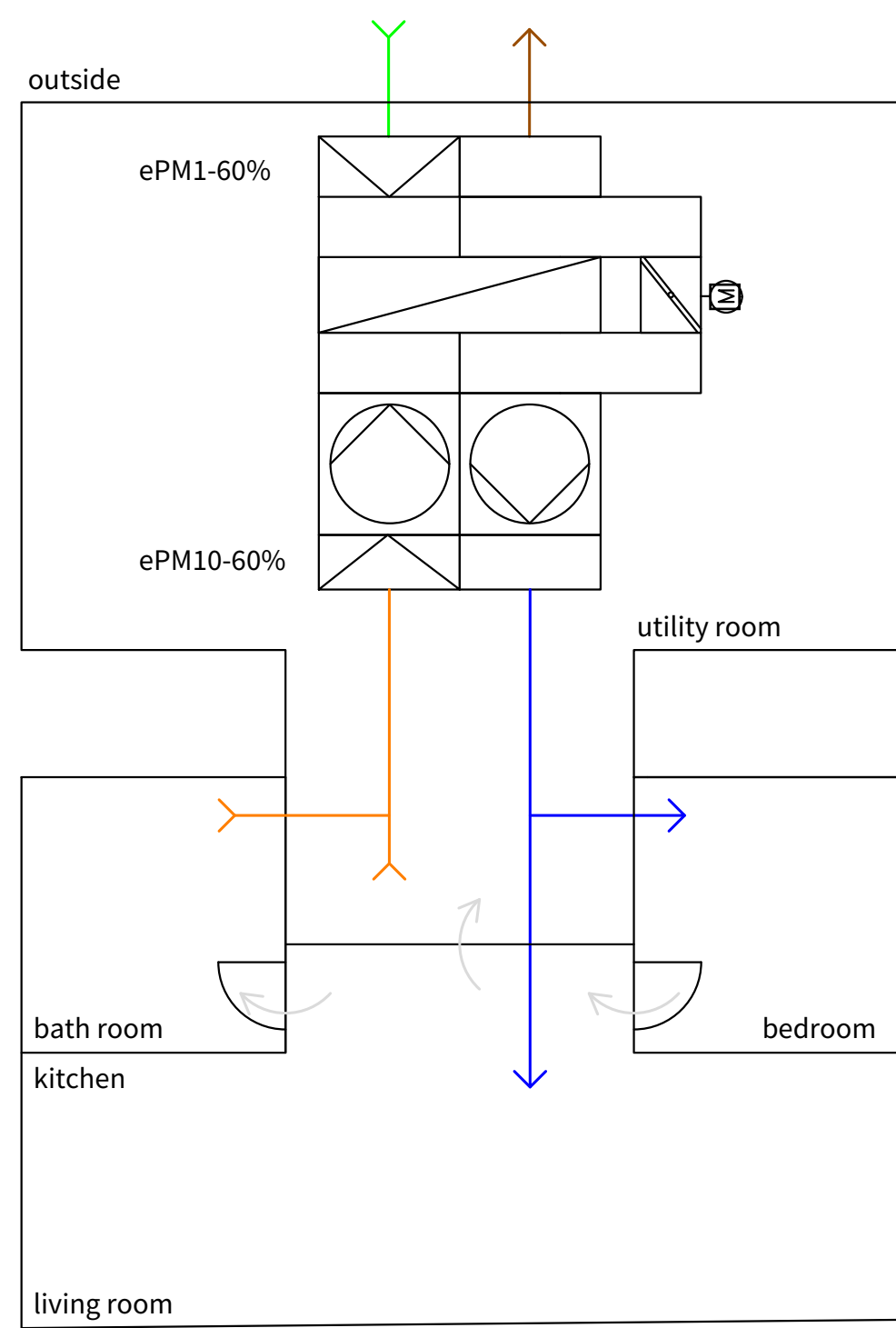
Scale
1 : 50

Phase
D#6

Drawing Content
Mechanical Room

ME-3001





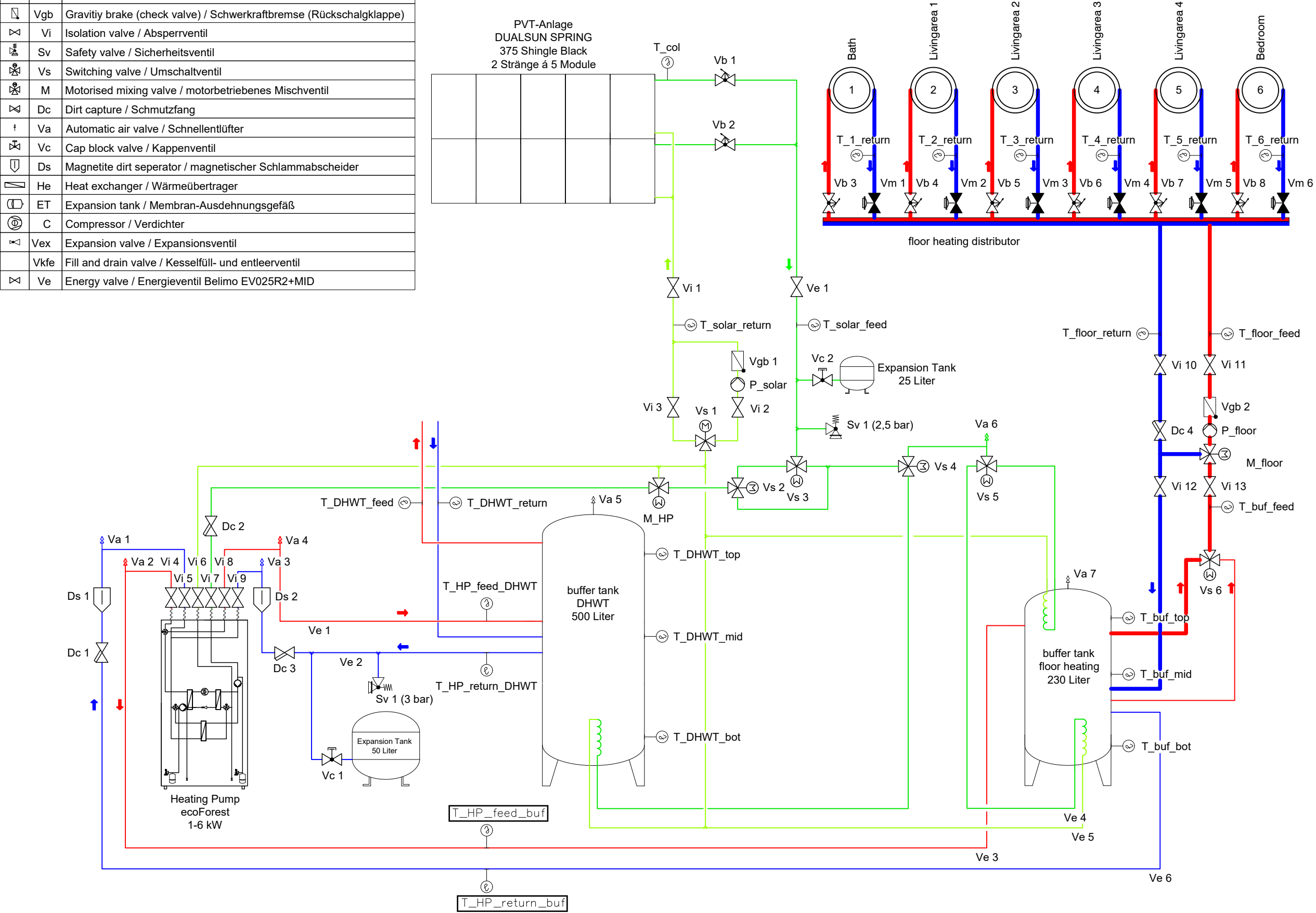
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

outdoor air	
supply air	
extract air	
exhaust air	
transferred air	

	filter
	heat exchanger
	motorized valve
	fan
	inlet valve
	outlet valve

room heating

	P	Pump / Pumpe
	Vb	Balancing valve / Strangreguliertventil
	T	Temperature sensor / Temperaturfühler PT-1000
	Vm	Motorised valve / motorbetriebenes Ventil
	Vgb	Gravitiy brake (check valve) / Schwerkraftbremse (Rückschlagklappe)
	Vi	Isolation valve / Absperrventil
	Sv	Safety valve / Sicherheitsventil
	Vs	Switching valve / Umschaltventil
	M	Motorised mixing valve / motorbetriebenes Mischventil
	Dc	Dirt capture / Schmutzfang
	Va	Automatic air valve / Schnellentlüfter
	Vc	Cap block valve / Kappenventil
	Ds	Magnetite dirt seperator / magnetischer Schlammabscheider
	He	Heat exchanger / Wärmeübertrager
	ET	Expansion tank / Membran-Ausdehnungsgefäß
	C	Compressor / Verdichter
	Vex	Expansion valve / Expansionsventil
	Vkfe	Fill and drain valve / Kesselfüll- und entleerventil
	Ve	Energy valve / Energieventil Belimo EV025R2+MID



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

heating feed	—
heating return	—
glycol feed	—
glycol return	—

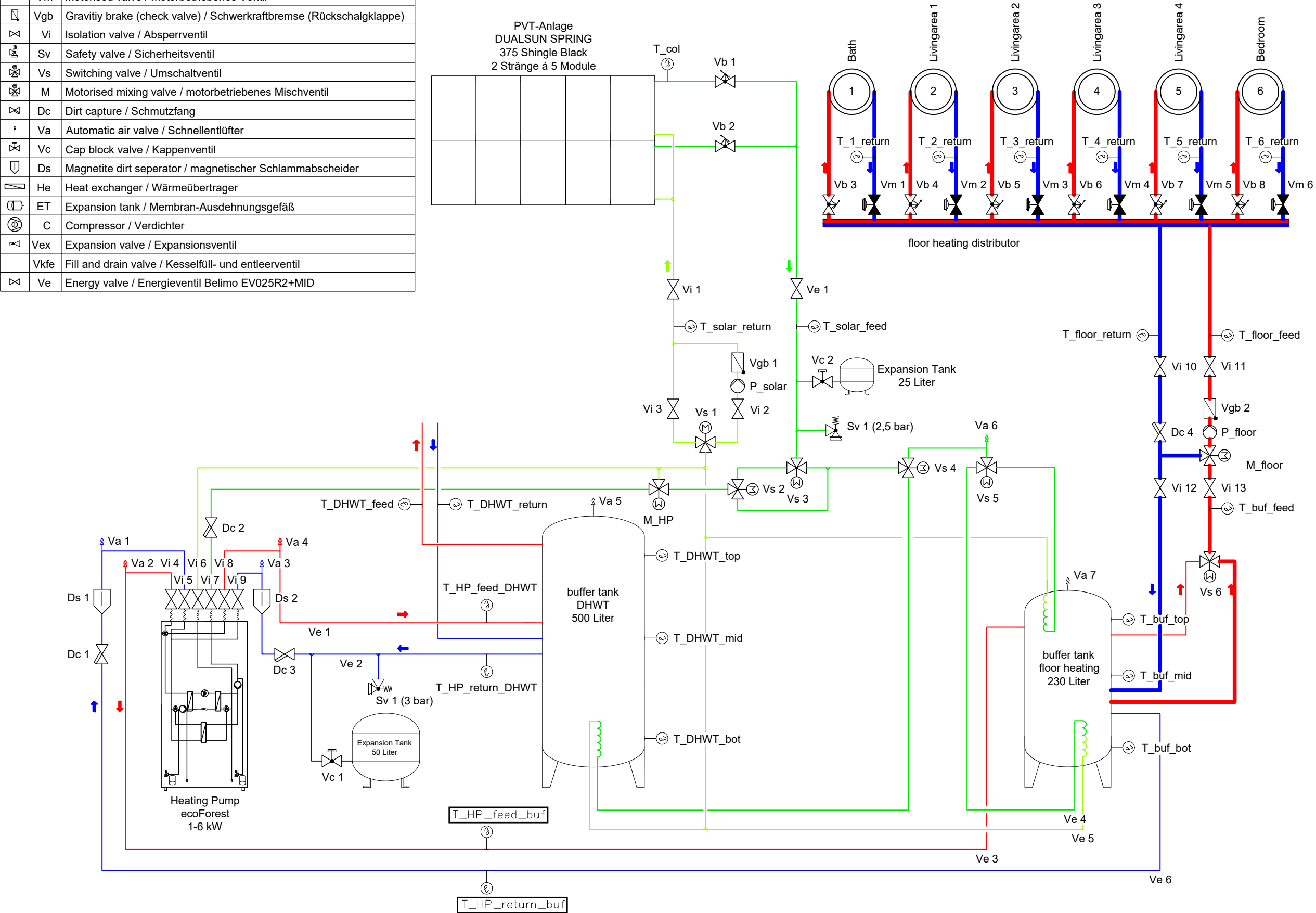
Scale	Phase
n.t.s. (A3 420x297)	D#6

Drawing Content-HDU
Heating mode
Schematic drawings

ME-4101

room cooling

	P	Pump / Pumpe
	Vb	Balancing valve / Strangreguliertventil
	T	Temperature sensor / Temperaturfühler PT-1000
	Vm	Motorised valve / motorbetriebenes Ventil
	Vgb	Gravitiy brake (check valve) / Schwerkraftbremse (Rückschlagklappe)
	Vi	Isolation valve / Absperrventil
	Sv	Safety valve / Sicherheitsventil
	Vs	Switching valve / Umschaltventil
	M	Motorised mixing valve / motorbetriebenes Mischventil
	Dc	Dirt capture / Schmutzfang
	Va	Automatic air valve / Schnellentlüfter
	Vc	Cap block valve / Kappenventil
	Ds	Magnetite dirt seperator / magnetischer Schlammabscheider
	He	Heat exchanger / Wärmeübertrager
	ET	Expansion tank / Membran-Ausdehnungsgefäß
	C	Compressor / Verdichter
	Vex	Expansion valve / Expansionsventil
	Vkfe	Fill and drain valve / Kesselfüll- und entleerventil
	Ve	Energy valve / Energieventil Belimo EV025R2+MID



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

heating feed	—
heating return	—
glycol feed	—
glycol return	—

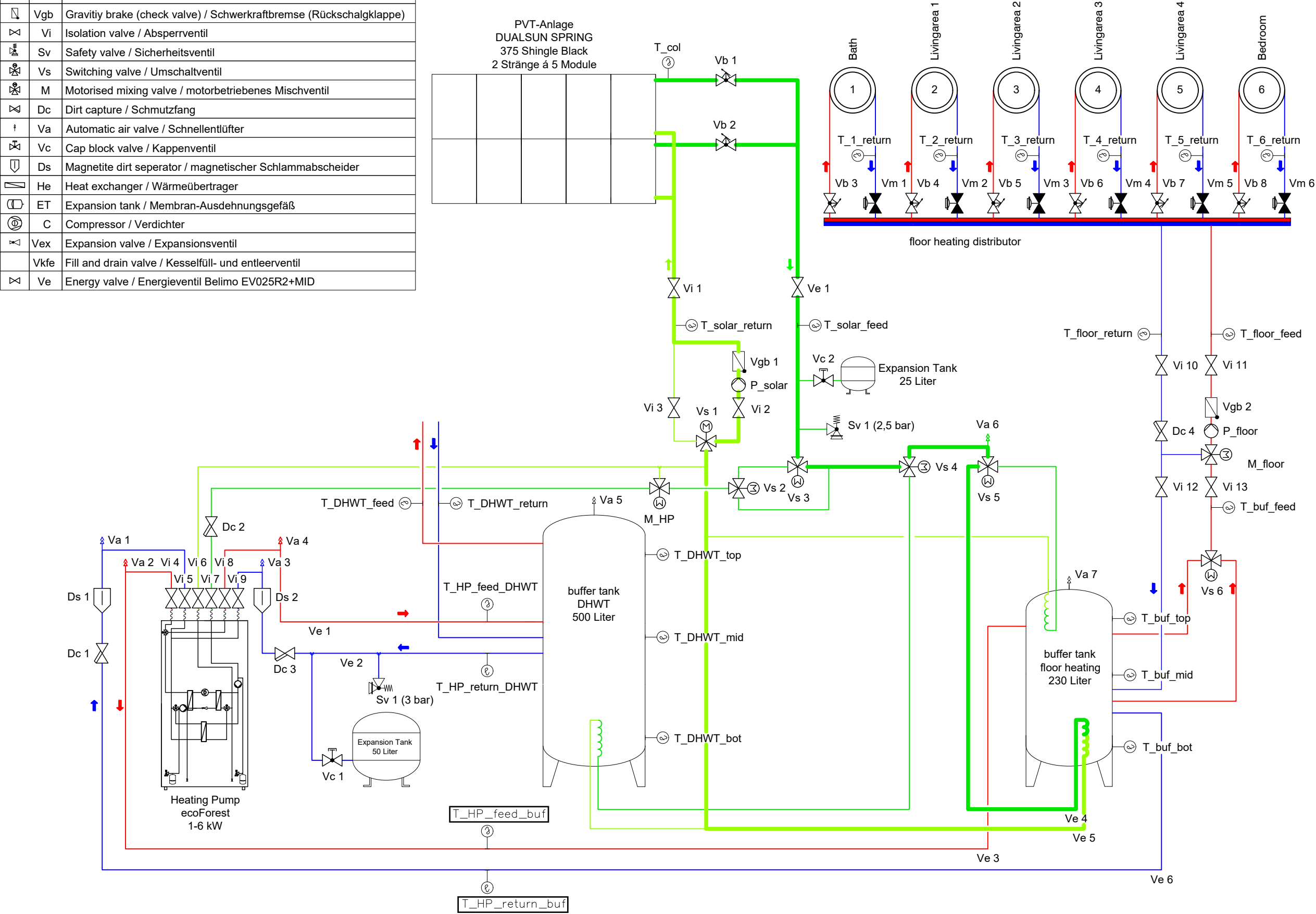
Scale	Phase
n.t.s. (A3 420x297)	D#6

Drawing Content-HDU
Heating mode
Schematic drawings

ME-4102

loading of buffer tank via PVT heating

	P	Pump / Pumpe
	Vb	Balancing valve / Strangreguliertventil
	T	Temperature sensor / Temperaturfühler PT-1000
	Vm	Motorised valve / motorbetriebenes Ventil
	Vgb	Gravitiy brake (check valve) / Schwerkraftbremse (Rückschlagklappe)
	Vi	Isolation valve / Absperrventil
	Sv	Safety valve / Sicherheitsventil
	Vs	Switching valve / Umschaltventil
	M	Motorised mixing valve / motorbetriebenes Mischventil
	Dc	Dirt capture / Schmutzfang
	Va	Automatic air valve / Schnellentlüfter
	Vc	Cap block valve / Kappenventil
	Ds	Magnetite dirt seperator / magnetischer Schlammabscheider
	He	Heat exchanger / Wärmeübertrager
	ET	Expansion tank / Membran-Ausdehnungsgefäß
	C	Compressor / Verdichter
	Vex	Expansion valve / Expansionsventil
	Vkfe	Fill and drain valve / Kesselfüll- und entleerventil
	Ve	Energy valve / Energieventil Belimo EV025R2+MID



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

heating feed	—
heating return	—
glycol feed	—
glycol return	—

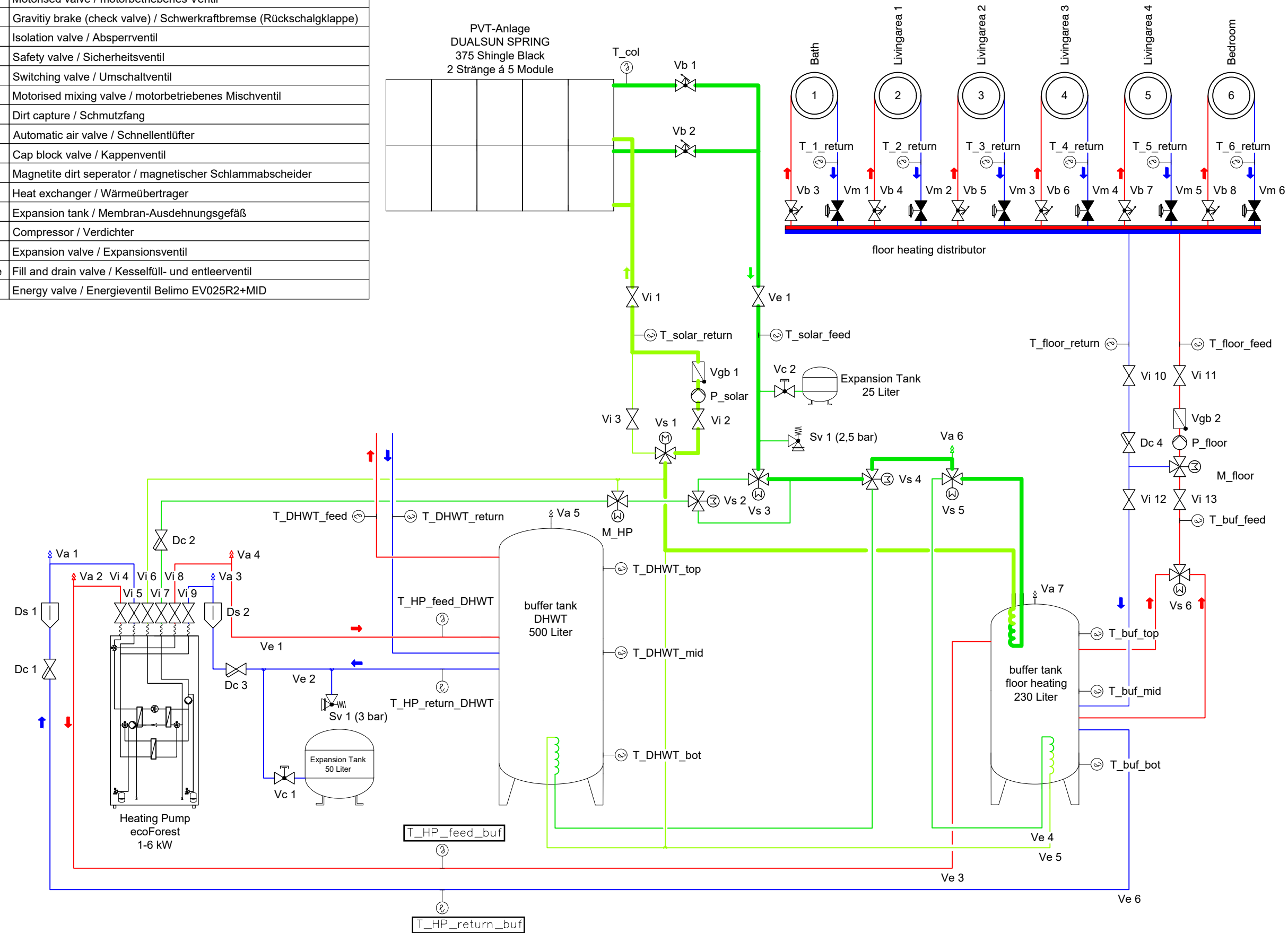
Scale	Phase
n.t.s. (A3 420x297)	D#6

Drawing Content-HDU
Heating mode
Schematic drawings

ME-4103

loading of buffer tank via PVT
cooling

	P	Pump / Pumpe
	Vb	Balancing valve / Strangreguliertventil
	T	Temperature sensor / Temperaturfühler PT-1000
	Vm	Motorised valve / motorbetriebenes Ventil
	Vgb	Gravitiy brake (check valve) / Schwerkraftbremse (Rückschlagklappe)
	Vi	Isolation valve / Absperrventil
	Sv	Safety valve / Sicherheitsventil
	Vs	Switching valve / Umschaltventil
	M	Motorised mixing valve / motorbetriebenes Mischventil
	Dc	Dirt capture / Schmutzfang
	Va	Automatic air valve / Schnellentlüfter
	Vc	Cap block valve / Kappenventil
	Ds	Magnetite dirt seperator / magnetischer Schlammabscheider
	He	Heat exchanger / Wärmeübertrager
	ET	Expansion tank / Membran-Ausdehnungsgefäß
	C	Compressor / Verdichter
	Vex	Expansion valve / Expansionsventil
	Vkfe	Fill and drain valve / Kesselfüll- und entleerventil
	Ve	Energy valve / Energieventil Belimo EV025R2+MID



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

heating feed	—
heating return	—
glycol feed	—
glycol return	—

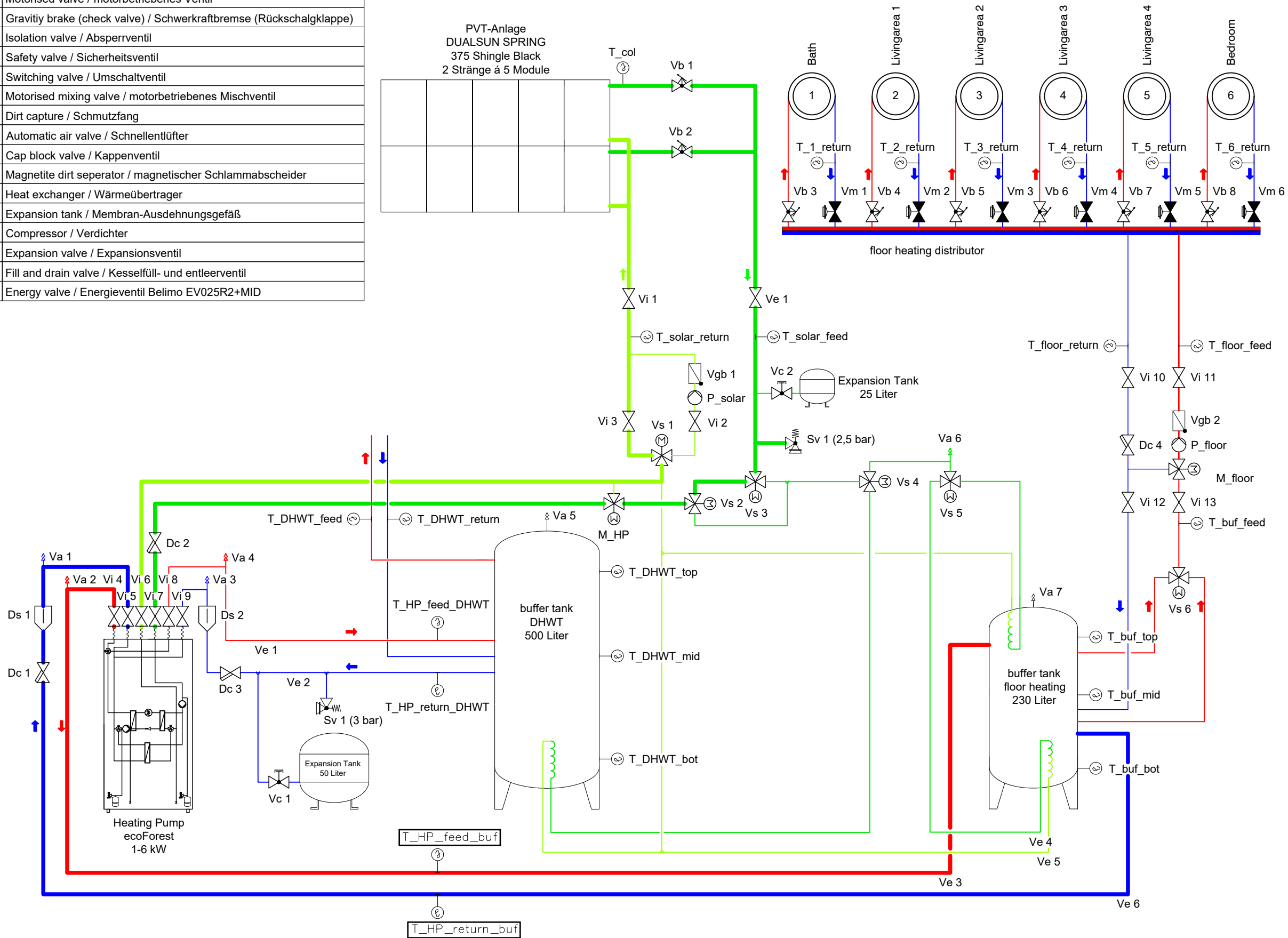
Scale	Phase
n.t.s. (A3 420x297)	D#6

Drawing Content-HDU
Heating mode
Schematic drawings

ME-4104

loading of buffer tank via heat pump
heating & cooling

	P	Pump / Pumpe
	Vb	Balancing valve / Strangreguliertventil
	T	Temperature sensor / Temperaturfühler PT-1000
	Vm	Motorised valve / motorbetriebenes Ventil
	Vgb	Gravity brake (check valve) / Schwerkraftbremse (Rückschlagklappe)
	Vi	Isolation valve / Absperrventil
	Sv	Safety valve / Sicherheitsventil
	Vs	Switching valve / Umschaltventil
	M	Motorised mixing valve / motorbetriebenes Mischventil
	Dc	Dirt capture / Schmutzfang
	Va	Automatic air valve / Schnellentlüfter
	Vc	Cap block valve / Kappenventil
	Ds	Magnetite dirt seperator / magnetischer Schlammabscheider
	He	Heat exchanger / Wärmeübertrager
	ET	Expansion tank / Membran-Ausdehnungsgefäß
	C	Compressor / Verdichter
	Vex	Expansion valve / Expansionsventil
	Vkfe	Fill and drain valve / Kesselfüll- und entleerventil
	Ve	Energy valve / Energieventil Belimo EV025R2+MID



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

heating feed	—
heating return	—
glycol feed	—
glycol return	—

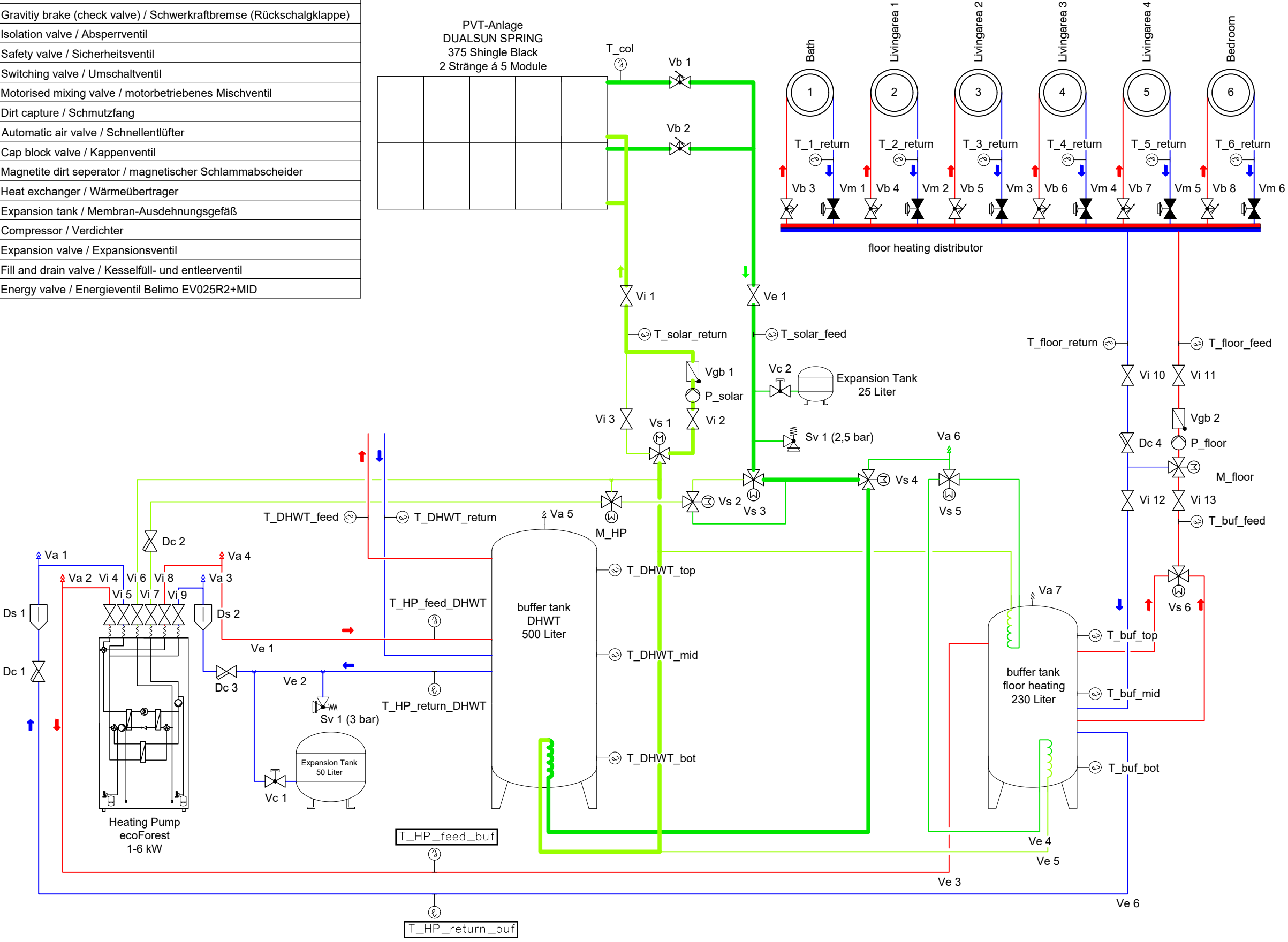
Scale	Phase
n.t.s. (A3 420x297)	D#6

Drawing Content-HDU
Heating mode
Schematic drawings

ME-4105

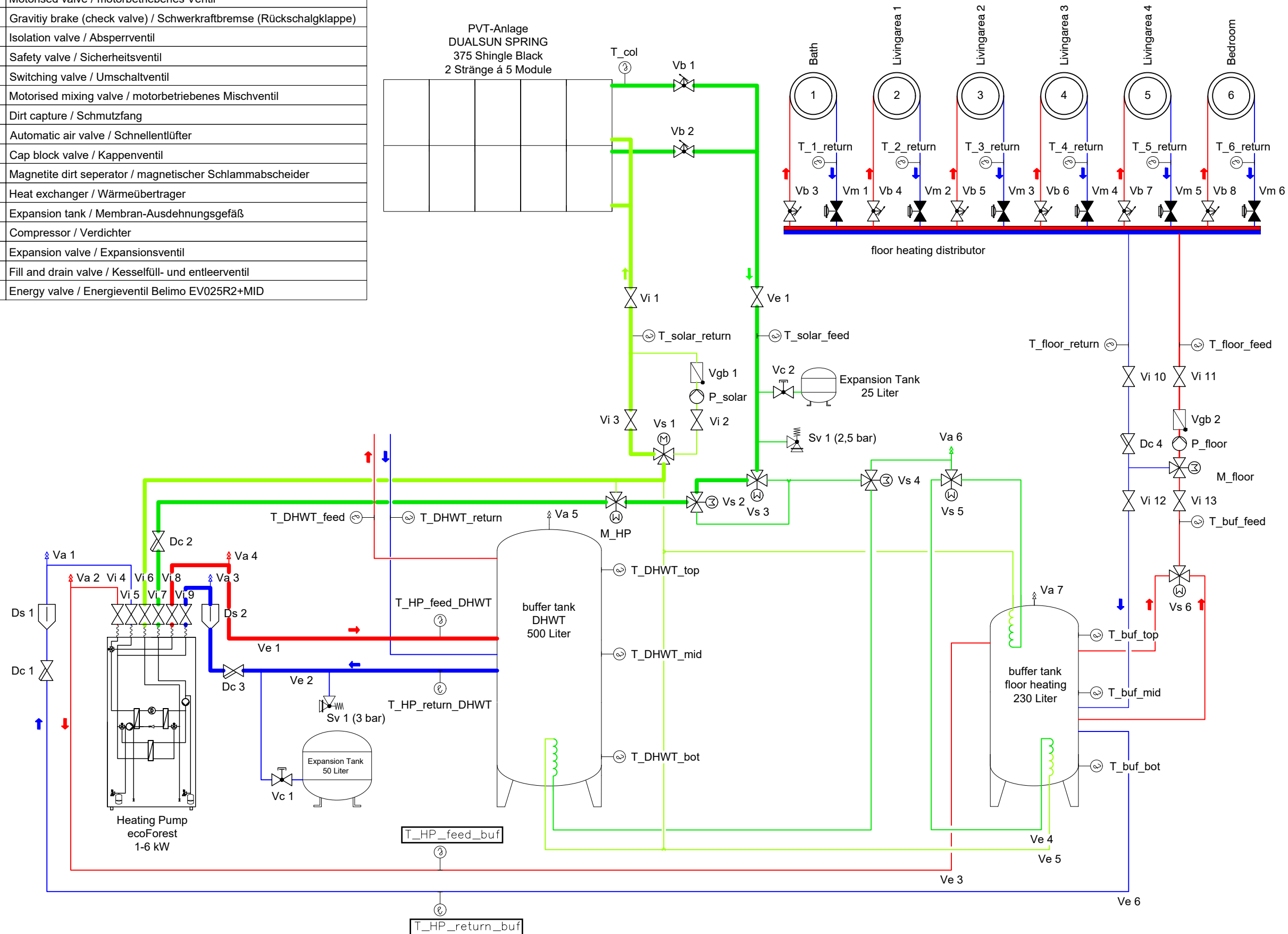
loading of DHW tank via PVT

	P	Pump / Pumpe
	Vb	Balancing valve / Strangreguliventil
	T	Temperature sensor / Temperaturfühler PT-1000
	Vm	Motorised valve / motorbetriebenes Ventil
	Vgb	Gravity brake (check valve) / Schwerkraftbremse (Rückschlagklappe)
	Vi	Isolation valve / Absperrventil
	Sv	Safety valve / Sicherheitsventil
	Vs	Switching valve / Umschaltventil
	M	Motorised mixing valve / motorbetriebenes Mischventil
	Dc	Dirt capture / Schmutzfang
	Va	Automatic air valve / Schnellentlüfter
	Vc	Cap block valve / Kappenventil
	Ds	Magnetite dirt separator / magnetischer Schlammabscheider
	He	Heat exchanger / Wärmeübertrager
	ET	Expansion tank / Membran-Ausdehnungsgefäß
	C	Compressor / Verdichter
	Vex	Expansion valve / Expansionsventil
	Vkfe	Fill and drain valve / Kesselfüll- und entleerventil
	Ve	Energy valve / Energieventil Belimo EV025R2+MID



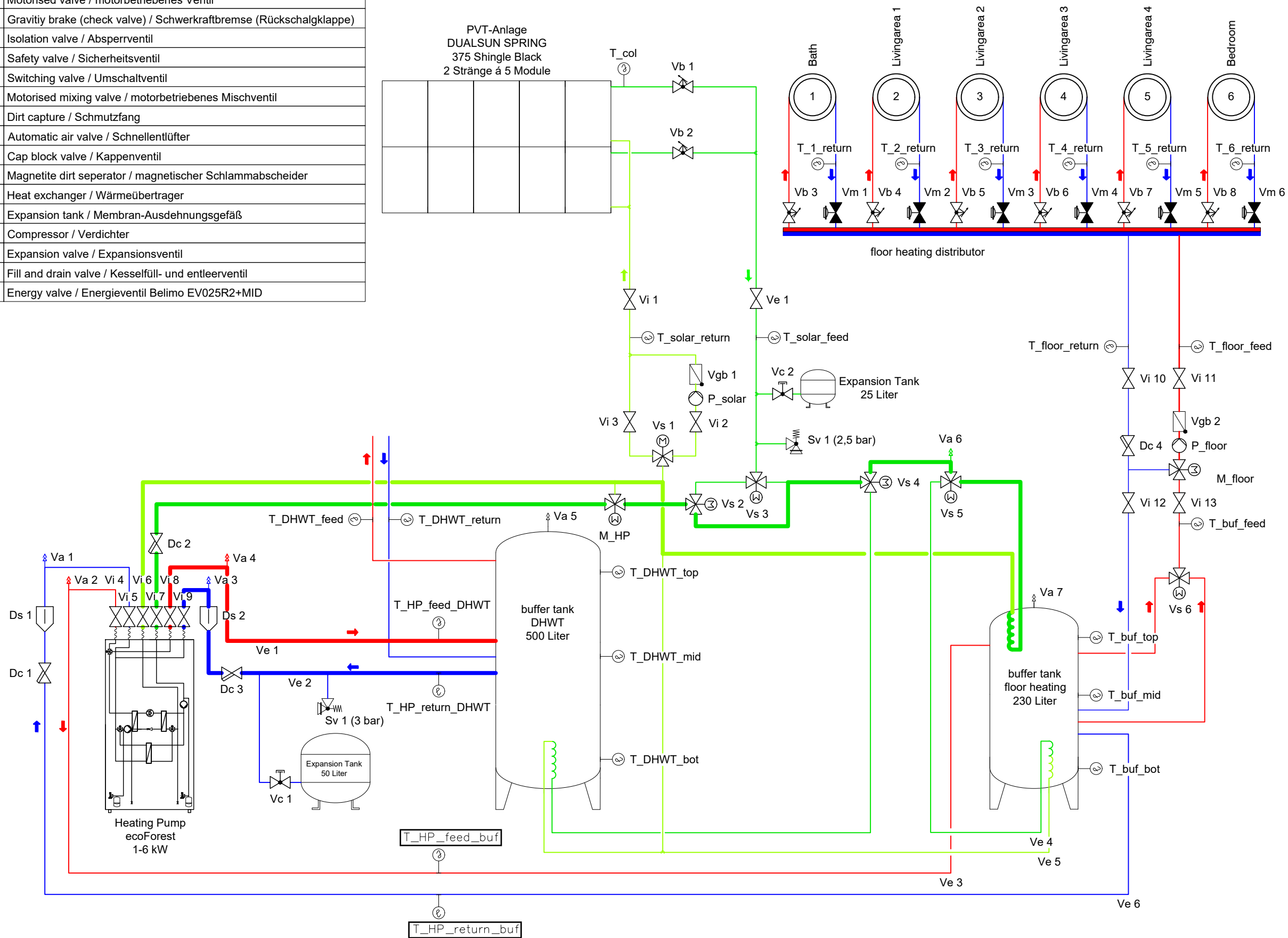
**loading of DHW tank via heat pump
source PVT**

	P	Pump / Pumpe
	Vb	Balancing valve / Strangreguliertventil
	T	Temperature sensor / Temperaturfühler PT-1000
	Vm	Motorised valve / motorbetriebenes Ventil
	Vgb	Gravity brake (check valve) / Schwerkraftbremse (Rückschlagklappe)
	Vi	Isolation valve / Absperrventil
	Sv	Safety valve / Sicherheitsventil
	Vs	Switching valve / Umschaltventil
	M	Motorised mixing valve / motorbetriebenes Mischventil
	Dc	Dirt capture / Schmutzfang
	Va	Automatic air valve / Schnellentlüfter
	Vc	Cap block valve / Kappenventil
	Ds	Magnetite dirt separator / magnetischer Schlammabscheider
	He	Heat exchanger / Wärmeübertrager
	ET	Expansion tank / Membran-Ausdehnungsgefäß
	C	Compressor / Verdichter
	Vex	Expansion valve / Expansionsventil
	Vkfe	Fill and drain valve / Kesselfüll- und entleerventil
	Ve	Energy valve / Energieventil Belimo EV025R2+MID



loading of DHW tank via heat pump
source buffer tank

	P	Pump / Pumpe
	Vb	Balancing valve / Strangreguliertventil
	T	Temperature sensor / Temperaturfühler PT-1000
	Vm	Motorised valve / motorbetriebenes Ventil
	Vgb	Gravity brake (check valve) / Schwerkraftbremse (Rückschlagklappe)
	Vi	Isolation valve / Absperrventil
	Sv	Safety valve / Sicherheitsventil
	Vs	Switching valve / Umschaltventil
	M	Motorised mixing valve / motorbetriebenes Mischventil
	Dc	Dirt capture / Schmutzfang
	Va	Automatic air valve / Schnellentlüfter
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	ET	Expansion tank / Membran-Ausdehnungsgefäß
	C	Compressor / Verdichter
	Vex	Expansion valve / Expansionsventil
	Vkfe	Fill and drain valve / Kesselfüll- und entleerventil
	Ve	Energy valve / Energieventil Belimo EV025R2+MID



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

heating feed	—
heating return	—
glycol feed	—
glycol return	—

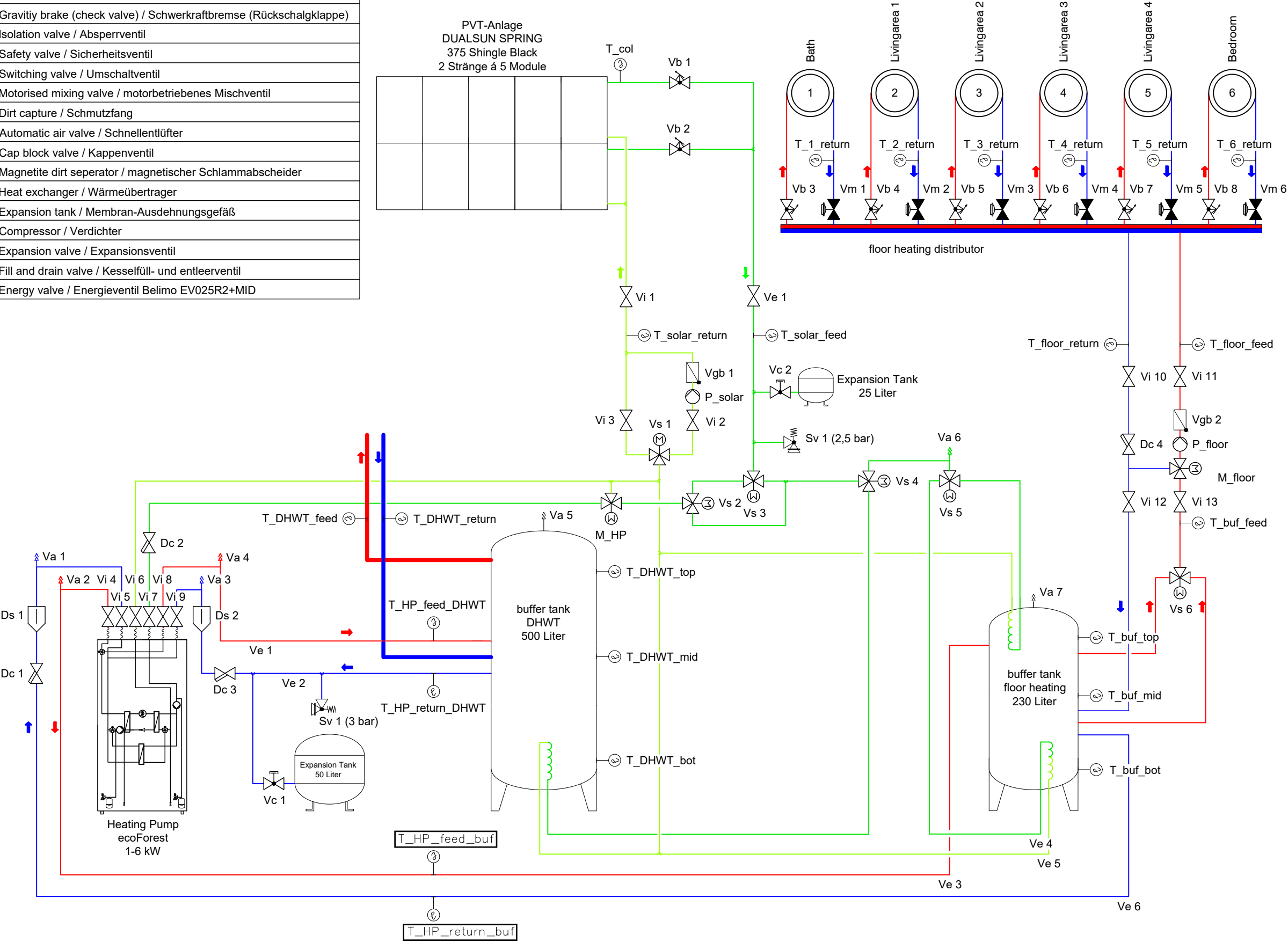
Scale	Phase
n.t.s. (A3 420x297)	D#6

Drawing Content-HDU
Heating mode
Schematic drawings

ME-4108

processing of DHW

	P	Pump / Pumpe
	Vb	Balancing valve / Strangreguliertventil
	T	Temperature sensor / Temperaturfühler PT-1000
	Vm	Motorised valve / motorbetriebenes Ventil
	Vgb	Gravitiy brake (check valve) / Schwerkraftbremse (Rückschlagklappe)
	Vi	Isolation valve / Absperrventil
	Sv	Safety valve / Sicherheitsventil
	Vs	Switching valve / Umschaltventil
	M	Motorised mixing valve / motorbetriebenes Mischventil
	Dc	Dirt capture / Schmutzfang
	Va	Automatic air valve / Schnellentlüfter
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	He	Heat exchanger / Wärmeübertrager
	ET	Expansion tank / Membran-Ausdehnungsgefäß
	C	Compressor / Verdichter
	Vex	Expansion valve / Expansionsventil
	Vkfe	Fill and drain valve / Kesselfüll- und entleerventil
	Ve	Energy valve / Energieventil Belimo EV025R2+MID



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

heating feed	—
heating return	—
glycol feed	—
glycol return	—

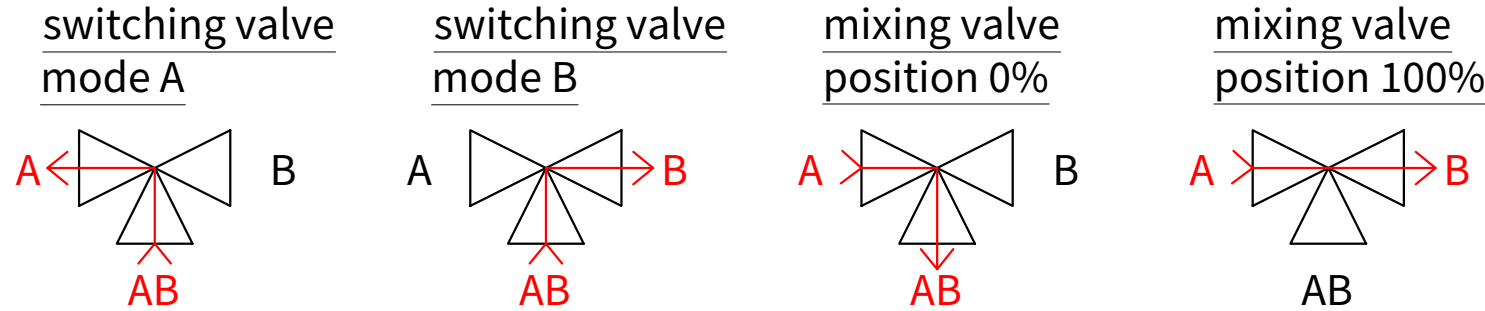
Scale	Phase
n.t.s. (A3 420x297)	D#6

Drawing Content-HDU
Heating mode
Schematic drawings

ME-4109

roomheating - and cooling			
	heating		cooling
	switch on condition	T_room_real < T_room_set - hyst & T_amb_avg_rol < T_heat_lim	T_room_real > T_room_set + hyst & T_amb_avg_rol > T_cool_lim
	switch off condtion	T_room_real > T_room_set + hyst	T_room_real < T_room_set - hyst
P_floor		ON	ON
M_floor	x = position in %	x = 0 < (T_room_set - T_room_real)*100 < 100	x = 0 < (T_room_real - T_room_set)*100 < 100
V 6		A	B

loading of domestic hot water tank				
	heating (PVT)		heating (HP [source:PVT])	heating (HP [source: buffer])
	switch on condition	T_col > T_DHWT_bot + hyst	T_DHWT_top_real < T_DHWT_top_set & P_solar = OFF	T_col < T_buffer_top - hyst T_DHWT_top_real < T_DHWT_top_set & T_amb_avg_rol > T_cool_lim & P_solar = OFF
	switch off condtion	T_col < T_DHWT_bot	T_DHWT_top_real > T_DHWT_top_set + hyst	T_DHWT_top_real > T_DHWT_top_set + hyst
P_solar	x = speed in %	x = 0 < (T_col - T_DHWT_bot)*10 < 100	OFF	OFF
M_HP	x = position in %	0	x =0 < (T_HP_prim_RF_max - T_HP_prim_RF_real)*100 < 100	x =0 < (T_HP_prim_RF_max - T_HP_prim_RF_real)*100 < 100
HP		OFF	ON	ON
V 1		B	A	not used
V 2		A	A	B
V 3		A	B	not used
V 4		B	X	A
V 5		not used	not used	A



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

T	Temperature
room	room
amb	ambient
buf	buffertank
col	collector
DHWT	domestic hot water tank
RF	return flow
heat	heating
cool	cooling
top	top
mid	middle
bot	bottom
prim	primary
set	setpoint
real	measured / real value
lim	limit
avg	average
rol	rolling
max	maximum
P_xxx	pump
M_xxx	mixing valve
HP	heat pump
V x	switching valve number

Scale	Phase
n.t.s. (A3 420x297)	D#6

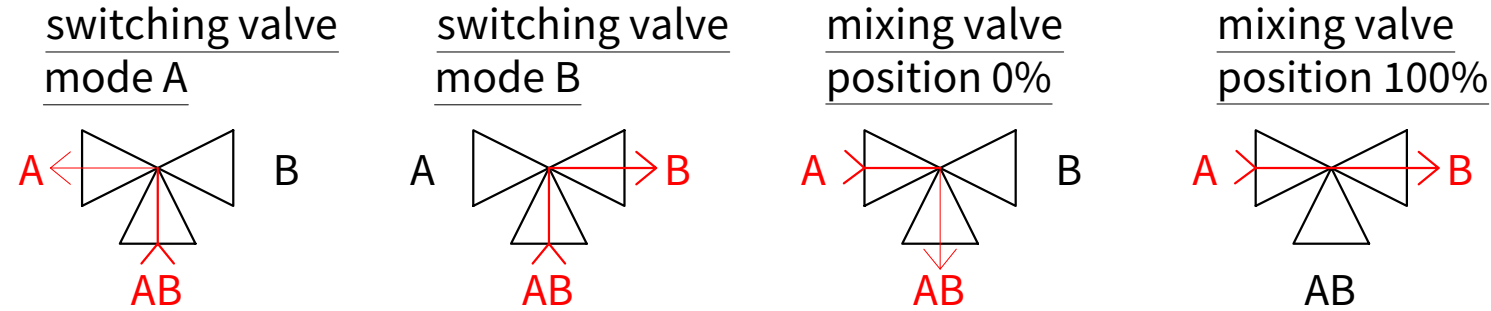
Drawing Content-HDU

Controls

ME-5001

loading of buffer tank from PVT			
		heating (PVT)	cooling (PVT)
	switch on condition	T_col > T_buf_bot + hyst & T_amb_avg_rol < T_heat_lim & PVT --> DHWT = OFF	T_col < T_buf_top - hyst & T_amb_avg_rol > T_cool_lim & PVT --> HP = OFF
	switch off condtion	T_col < T_buf_bot	T_col > T_buf_bot
P_solar	x = speed in %	$x = 0 < (T_col - T_buf_bot) * 10 < 100$	$x = 0 < (T_buf_oben - T_kol) * 10 < 100$
M_HP	x = position in %	0	0
HP		OFF	OFF
V 1		B	B
V 2		A	A
V 3		A	A
V 4		A	A
V 5		B	A

loading of buffer tank from heating pump			
		heating (HP)	cooling (HP)
	switch on condition	T_buf_top_real < T_buf_top_set & T_amb_avg_rol < T_heat_lim	T_buf_bot_real > T_buf_bot_set & T_amb_avg_rol > T_cool_lim
	switch off condtion	T_buf_top_real > T_buf_top_set + hyst	T_buf_bot_real < T_buf_bot_set - hyst
P_solar	x = speed in %	OFF	OFF
M_HP	x = position in %	$x = 0 < (T_HP_prim_RF_max - T_HP_prim_RF_real) * 100 < 100$	$x = 0 < (T_HP_prim_RF_max - T_HP_prim_RF_real) * 100 < 100$
HP		ON	ON
Vs 1		A	A
Vs 2		A	A
Vs 3		B	B
Vs 4		not used	not used
Vs 5		not used	not used



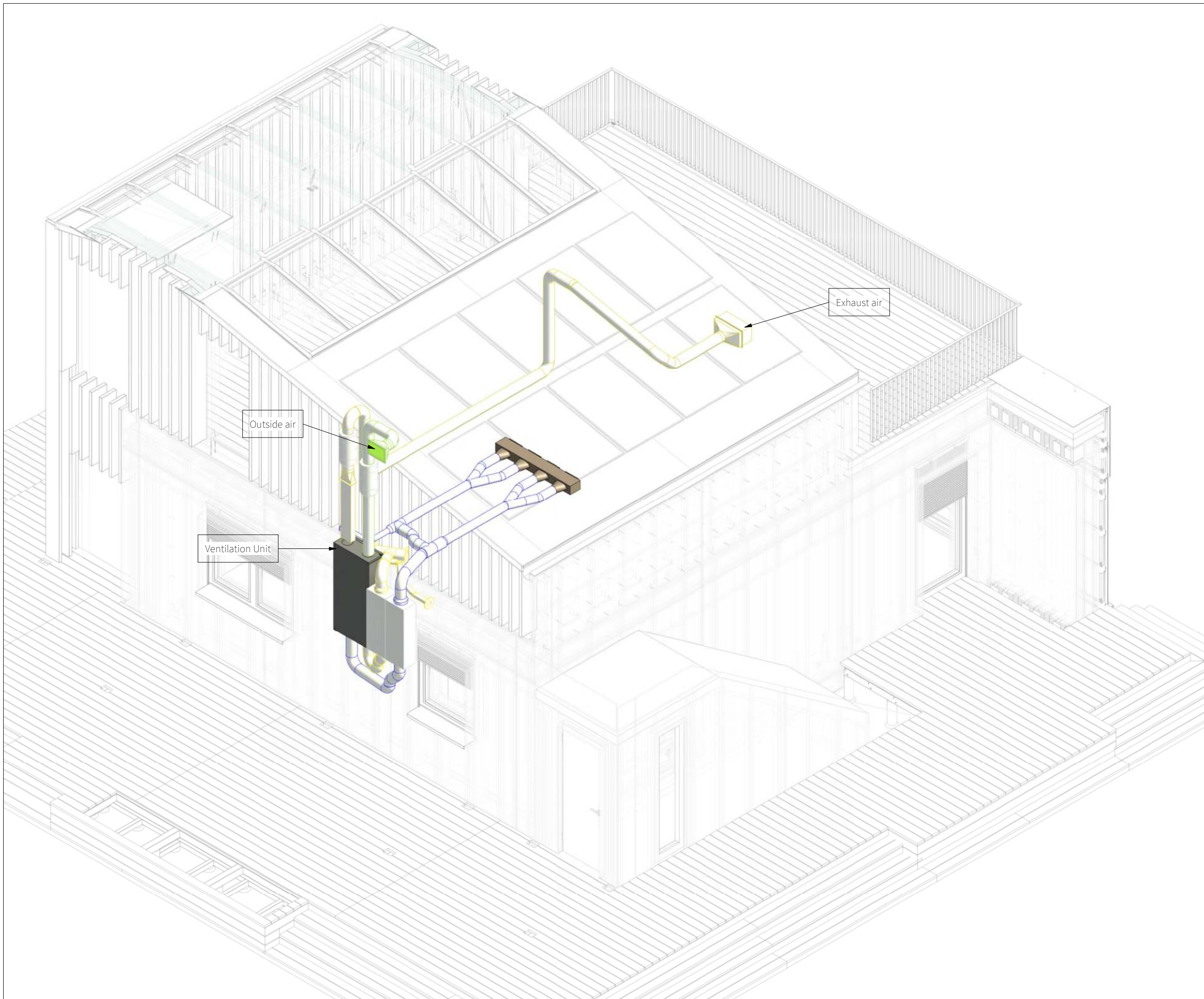
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

T	Temperature
room	room
amb	ambient
buf	buffertank
col	collector
DHWT	domestic hot water tank
RF	return flow
heat	heating
cool	cooling
top	top
mid	middle
bot	bottom
prim	primary
set	setpoint
real	measured / real value
lim	limit
avg	average
rol	rolling
max	maximum
P_xxx	pump
M_xxx	mixing valve
HP	heat pump
V x	switching valve number

Scale	Phase
n.t.s. (A3 420x297)	D#6

Drawing Content-HDU
Controls

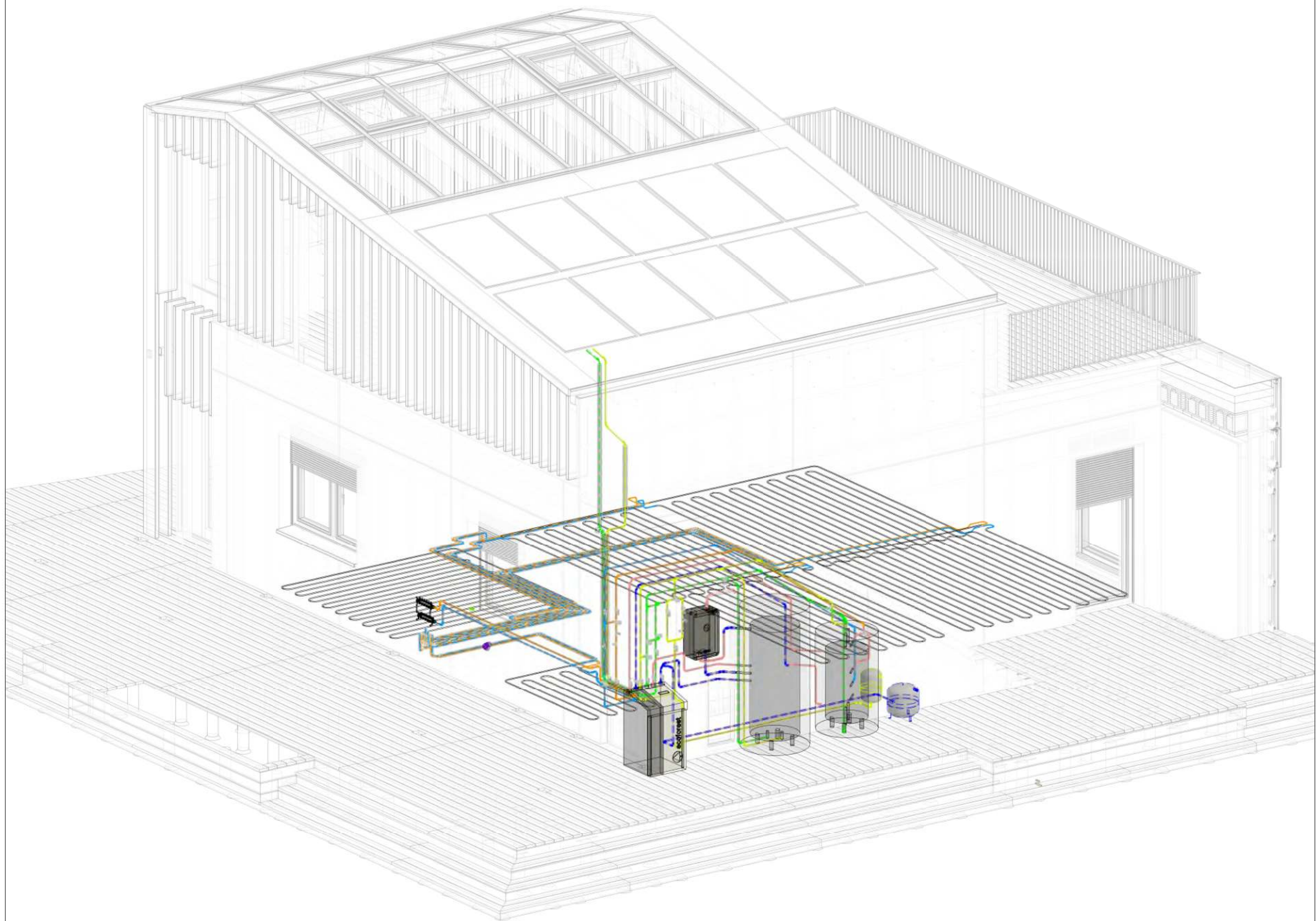
ME-5002



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
	D#6

Drawing Content
Ventilation Distribution - Isometric



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

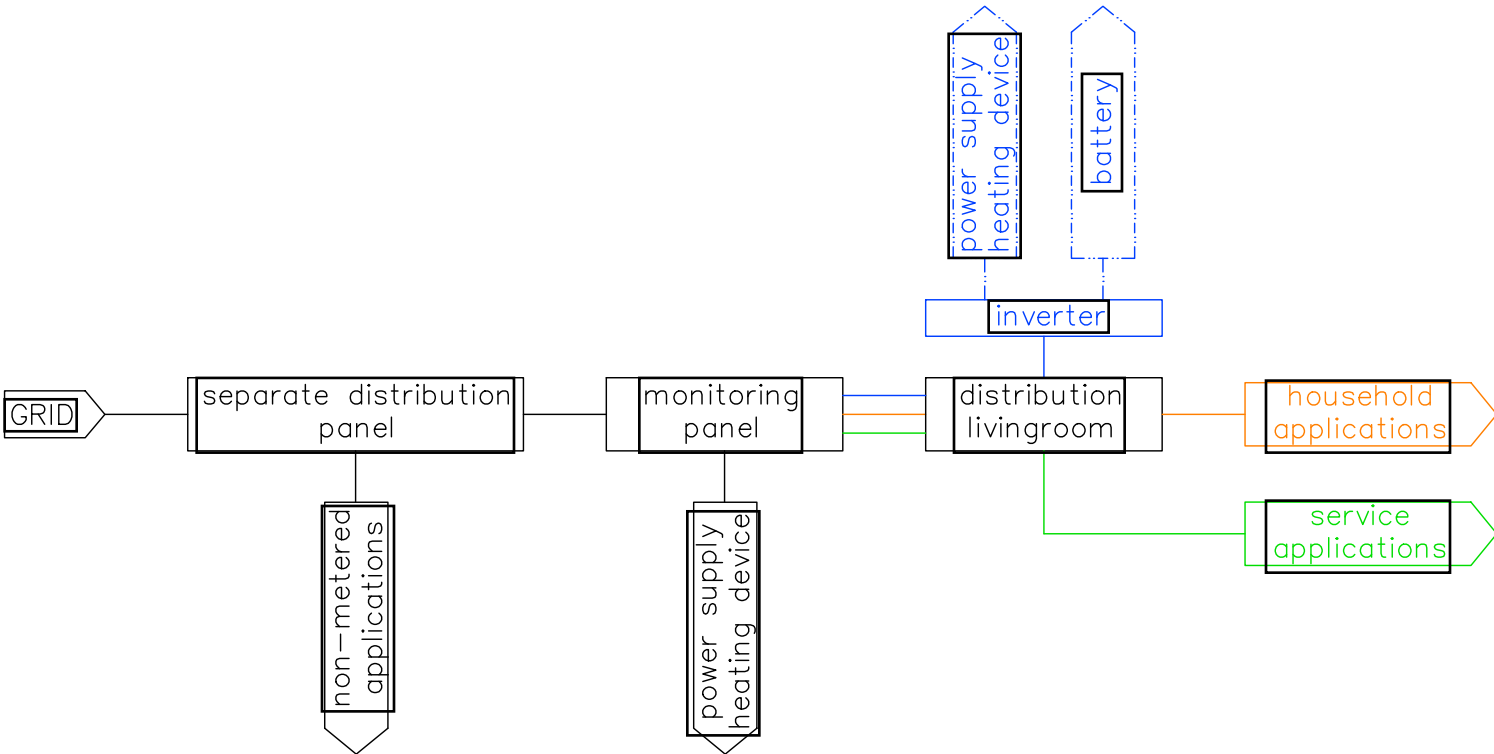
Scale Phase
D#6

Drawing Content
Heating - Isometric

ME-6002 

Electrical (EL)





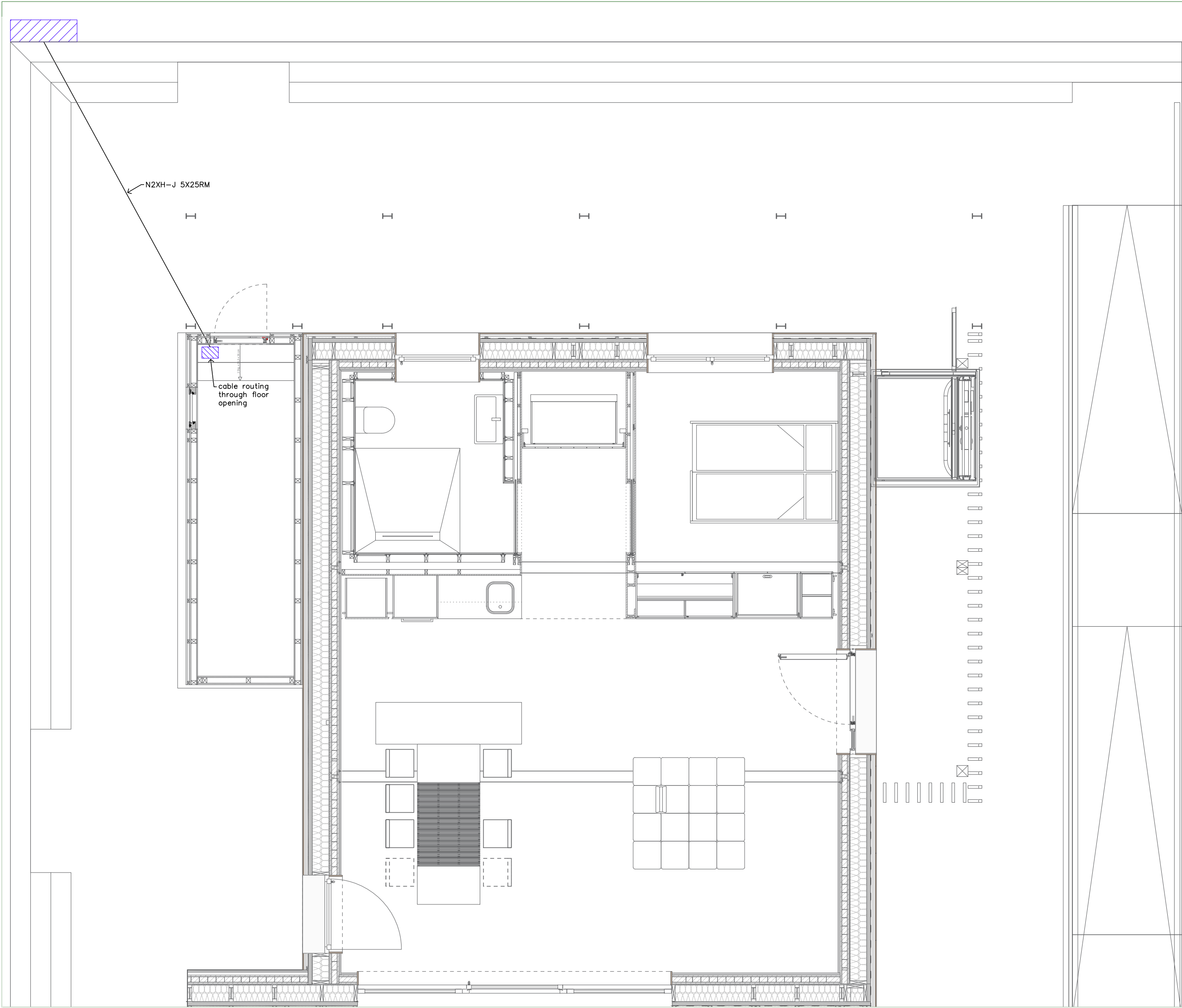
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

General / Grid	—
PV - AC	—
PV - DC	- - -
Service (HVAC)	—
Household (light, household appliances, etc.)	—

Scale	Phase
n.t.s. (A3 420x297)	D#6

Drawing Content-HDU
Conceptual Drawings

EL-0001



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Legend

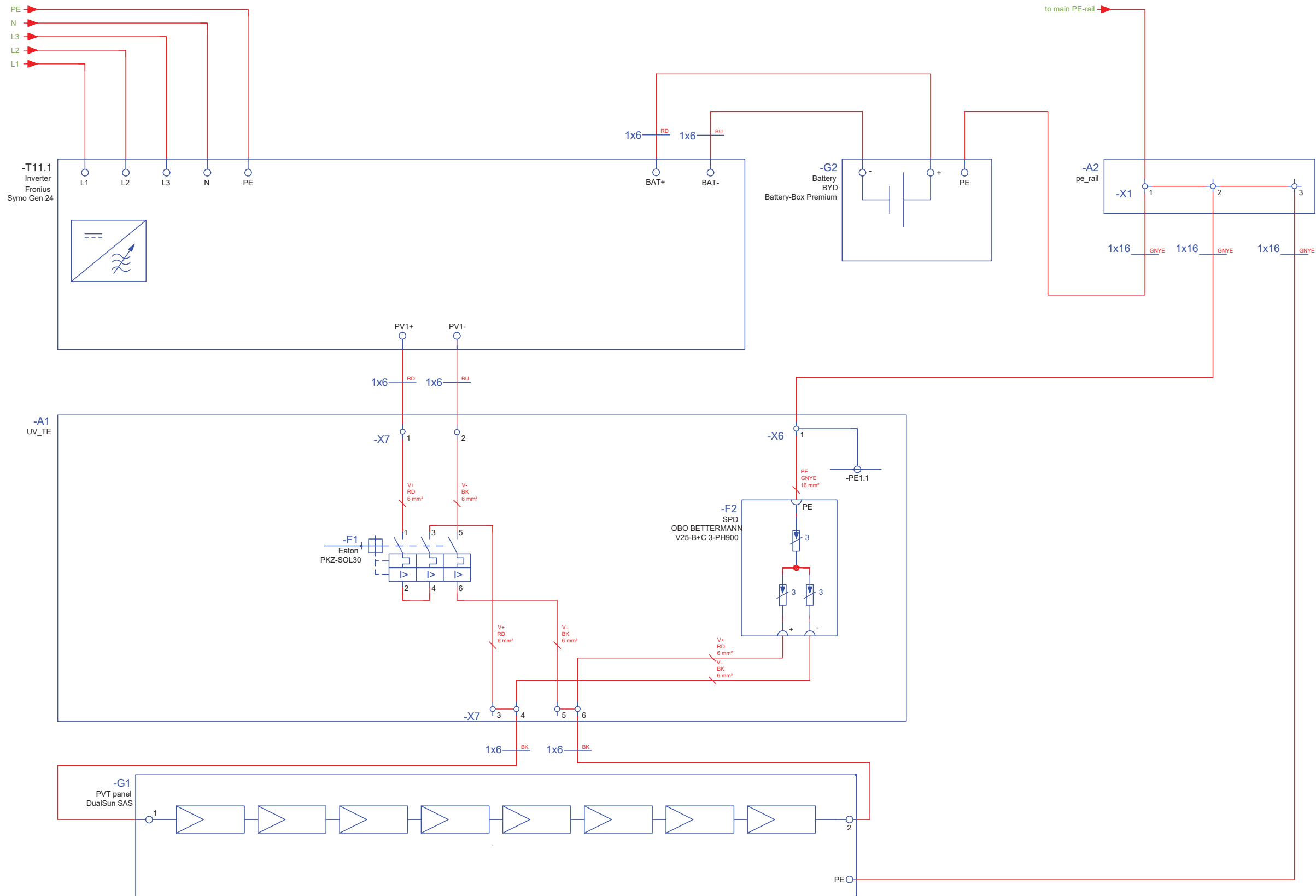
	cable
	general distribution box
	separate distribution panel

Scale 1:50 (A3 420x297) Phase D#6

Drawing Content-HDU
Grid Interconnection

EL-1001 

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	PW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Legend

-  button
-  switch
-  socket
-  controllable socket
-  electrical connection
-  electrical distribution
-  network distribution
-  data socket
-  smoke detector
-  door-/Windowsensor
-  blindsmotor
-  temperatur- and humiditysensor
-  display
-  home assistant
-  fridge & freezer
-  dishwasher
-  oven
-  stove
-  washer
-  dryer

All sockets to be mounted at 30 cm above FF unless otherwise stated.

The cabling and conduit installation is to be carried out in accordance with the standard in the installation zones provided.

Scale

1:50 (A3 420x297)

Phase

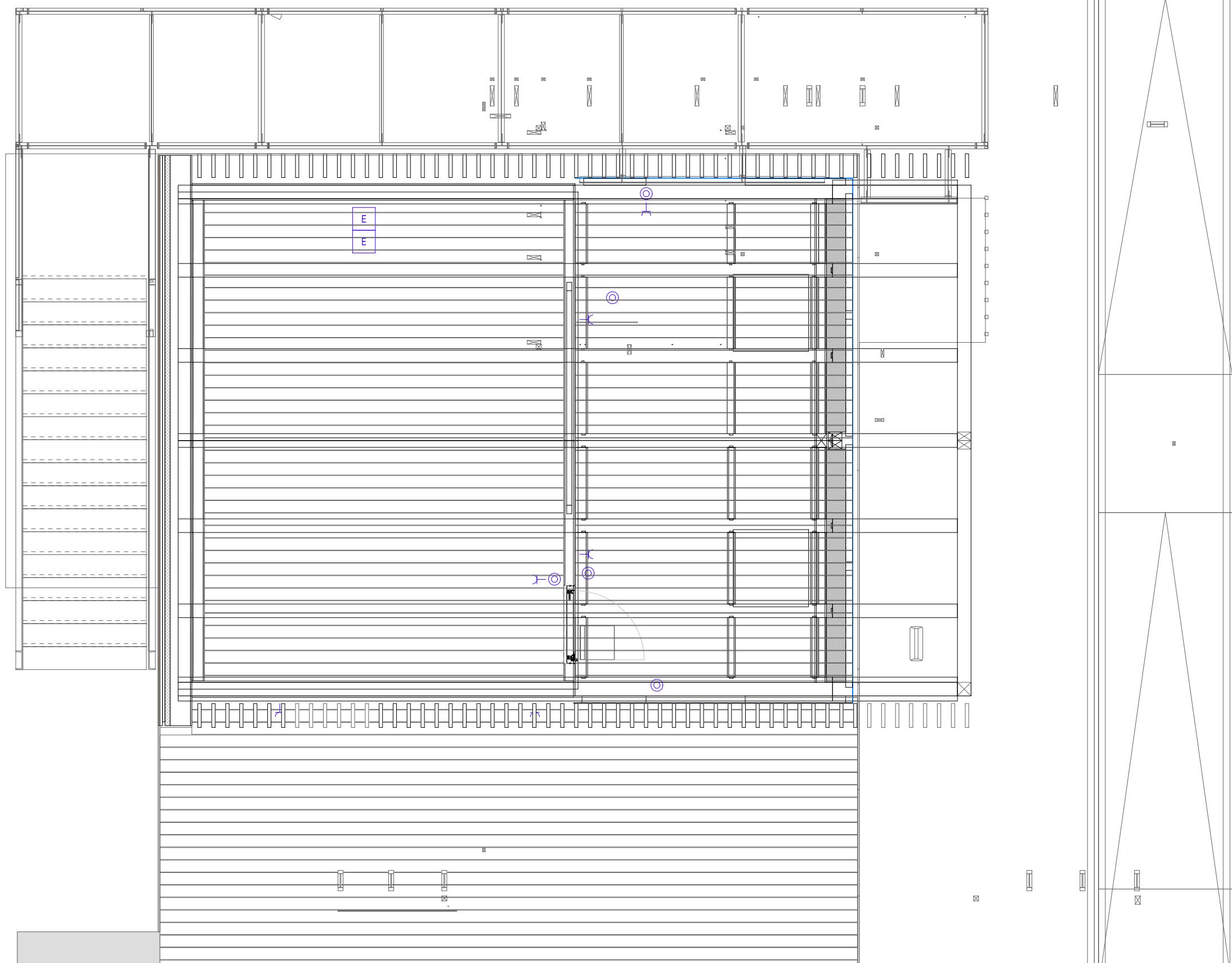
D#6

Drawing Content-HDU

Power Plan
Level 01

EL-3001





General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

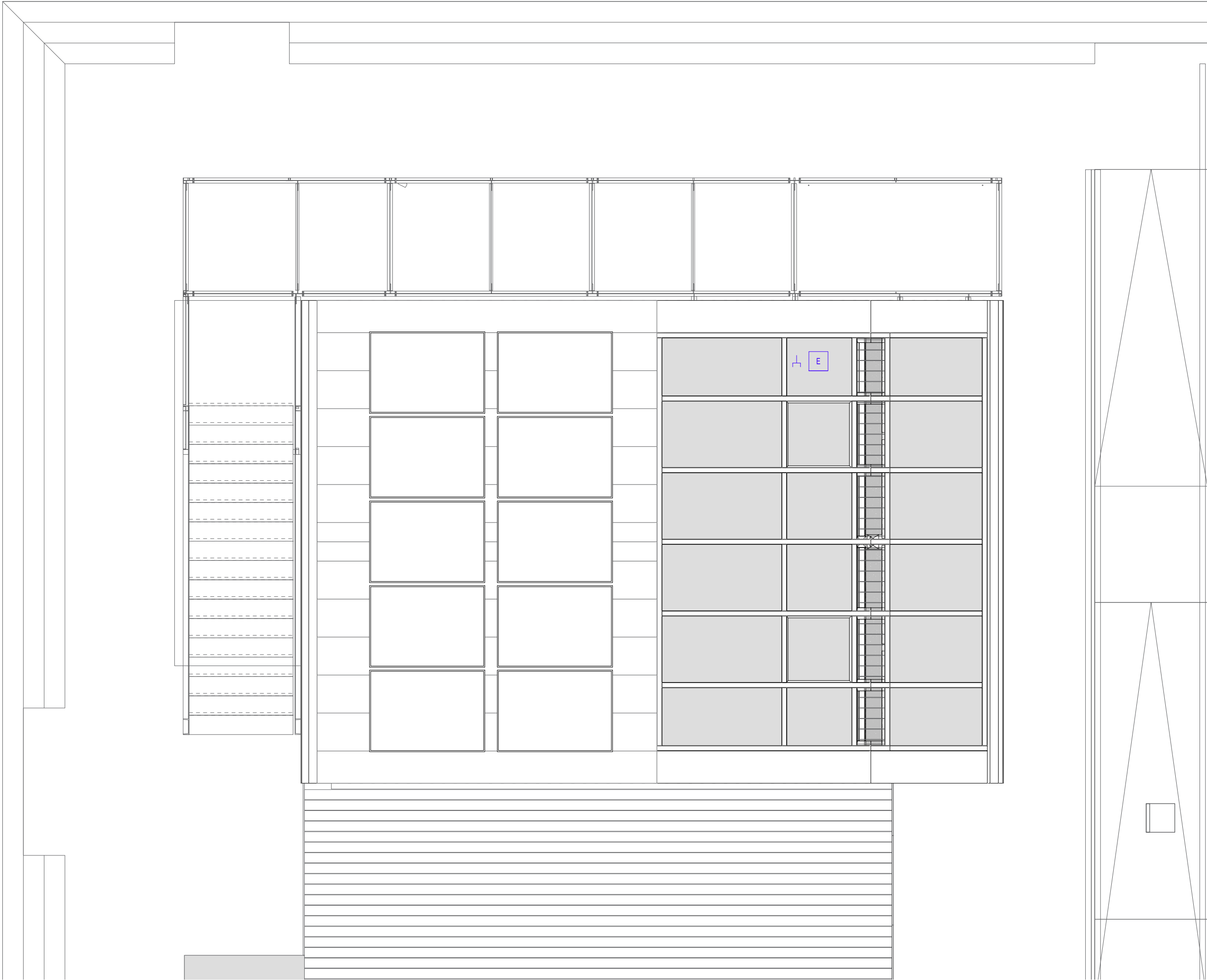
Legend	
	button
	switch
	socket
	controllable socket
	electrical connection
	electrical distribution
	network distribution
	data socket
	smoke detector
	door-/Window sensor
	blind motor
	temperature- and humidity sensor
	display
	home assistant
	fridge & freezer
	dishwasher
	oven
	stove
	washer
	dryer

All sockets to be mounted at 30 cm above FF unless otherwise stated.

The cabling and conduit installation is to be carried out in accordance with the standard in the installation zones provided.

Scale	Phase
1:50 (A3 420x297)	D#6

Drawing Content-HDU
Power Plan
Level 02



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

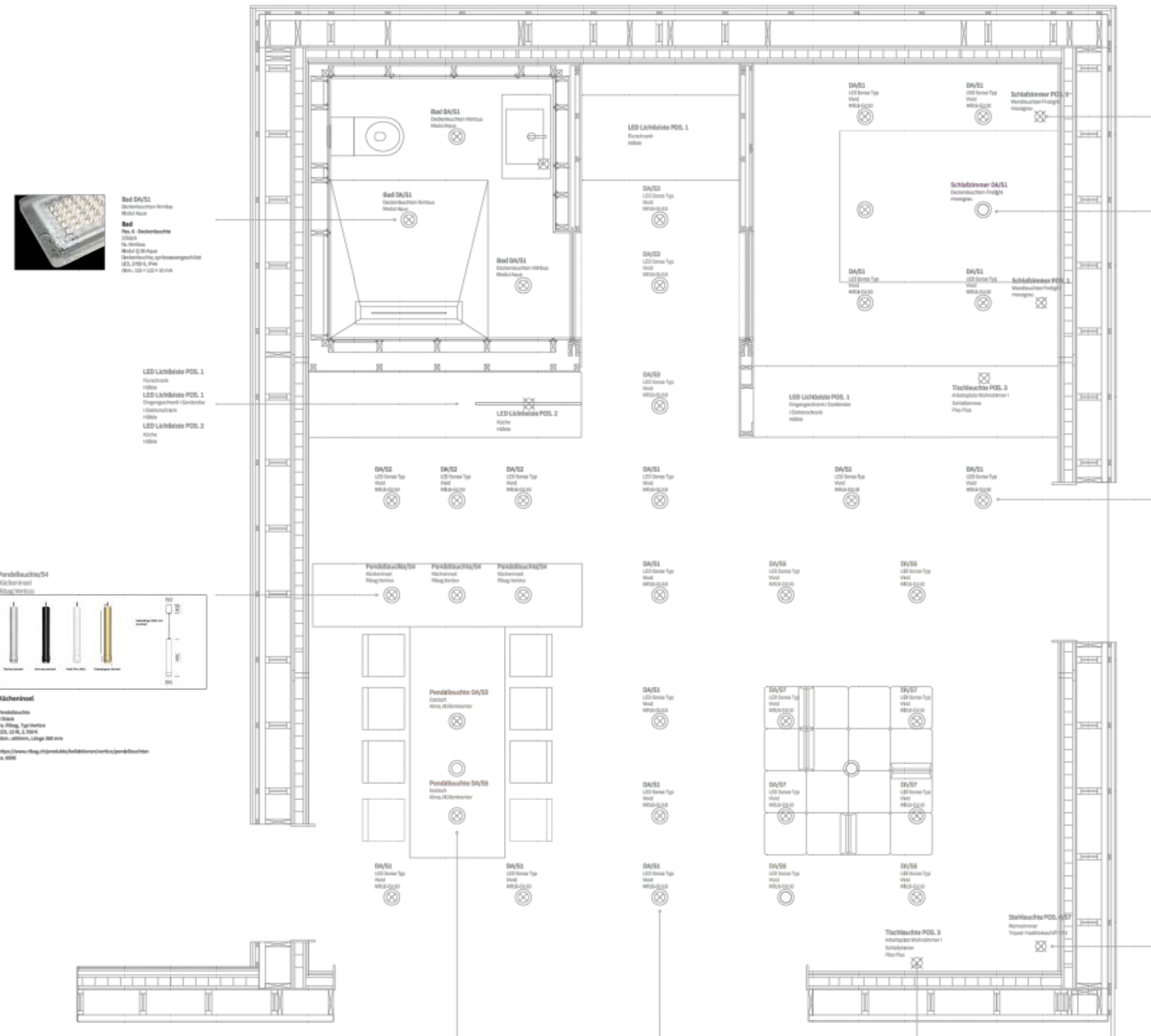
Legend	
	button
	switch
	socket
	controllable socket
	electrical connection
	electrical distribution
	network distribution
	data socket
	smoke detector
	door-/Windowsensor
	blindsmotor
	temperatur- and humiditysensor
	display
	home assistant
	fridge & freezer
	dishwasher
	oven
	stove
	washer
	dryer

All sockets to be mounted at 30 cm above FF unless otherwise stated.

The cabling and conduit installation is to be carried out in accordance with the standard in the installation zones provided.

Scale	Phase
1:50 (A3 420x297)	D#6

Drawing Content-HDU
Power Plan
Level 03



Rad DA/SS
Deckenleuchte Klondike
Modul: Rad
Rad
Pos. 6 - Deckenleuchte
230VAC
Fz. 100W
Modul Q 100W
Deckenleuchte, recyclingmaterial
LED, 2700 K, 14W
Abm.: 122 x 122 x 10 mm



Pendelleuchte DA/SS
Kücheninsel
Kücheninsel
3 Stück
Fz. 100W, Typ Vertico
LED, 12 PL, 2.700 K
Abm.: 100mm, Höhe 300 mm
<https://www.levelup.de/products/bedleuchten/verico/pendelleuchten>
ca. 1000



Esstisch
Pendelleuchte
3 Stück
Recycling Klondikeleuchte - Klondikeleuchte FINELEHT aller -
workshop by Lena Peter
LED Leuchtmittel DA/SS 2.700 K
Abm.: 15 cm, H. 10,5 cm, Durchmesser 1,5 cm, Gewicht 130 g
Abm.: 10 cm, H. 10 cm, Durchmesser 1,5 cm, Gewicht 130 g
<https://www.levelup.de/products/bedleuchten/verico/pendelleuchten>
ca. 1000
Halter
Kücheninsel
Recycling & Recycling
aus recyceltem Kunststoff
Made in Germany
Recycling & Recycling



Esstisch
Pendelleuchte monogram RA 100
3 Stück
Recycling Klondikeleuchte FINELEHT fertig - workshop by Lena Peter
LED Leuchtmittel DA/SS 2.700 K
Abm.: 15 cm, H. 10,5 cm, Durchmesser 1,5 cm, Gewicht 130 g
Abm.: 10 cm, H. 10 cm, Durchmesser 1,5 cm, Gewicht 130 g
<https://www.levelup.de/products/bedleuchten/verico/pendelleuchten>
ca. 1000
Halter
Kücheninsel
Recycling & Recycling
aus recyceltem Kunststoff
Made in Germany
Recycling & Recycling



Pendelleuchte DA/SS
Kücheninsel
Kücheninsel
3 Stück
Fz. 100W, Typ Vertico
LED, 12 PL, 2.700 K
Abm.: 100mm, Höhe 300 mm
<https://www.levelup.de/products/bedleuchten/verico/pendelleuchten>
ca. 1000



Esstisch
Pendelleuchte gey
3 Stück
Pendelleuchte KLAM, Klondikeleuchte
LED Leuchtmittel DA/SS 2.700 K
Abm.: 15 cm, H. 10,5 cm, Durchmesser 1,5 cm, Gewicht 130 g
Abm.: 10 cm, H. 10 cm, Durchmesser 1,5 cm, Gewicht 130 g
<https://www.levelup.de/products/bedleuchten/verico/pendelleuchten>
ca. 1000
Halter
Kücheninsel
Recycling & Recycling
aus recyceltem Kunststoff
Made in Germany
Recycling & Recycling



Esstisch
Pendelleuchte gey
3 Stück
Pendelleuchte KLAM, Klondikeleuchte
LED Leuchtmittel DA/SS 2.700 K
Abm.: 15 cm, H. 10,5 cm, Durchmesser 1,5 cm, Gewicht 130 g
Abm.: 10 cm, H. 10 cm, Durchmesser 1,5 cm, Gewicht 130 g
<https://www.levelup.de/products/bedleuchten/verico/pendelleuchten>
ca. 1000
Halter
Kücheninsel
Recycling & Recycling
aus recyceltem Kunststoff
Made in Germany
Recycling & Recycling



Schlafzimmer POS. 1
Deckenleuchte
monogram
2 Stück
Recycling Klondikeleuchte FINELEHT fertig - workshop by Lena Peter
LED Leuchtmittel DA/SS 2.700 K
Abm.: 15 cm, H. 10,5 cm, Durchmesser 1,5 cm, Gewicht 130 g
<https://www.levelup.de/products/bedleuchten/verico/pendelleuchten>
ca. 1000



Schlafzimmer DA/SS
Deckenleuchte
monogram
2 Stück
Recycling Klondikeleuchte FINELEHT fertig - workshop by Lena Peter
LED Leuchtmittel DA/SS 2.700 K
Abm.: 15 cm, H. 10,5 cm, Durchmesser 1,5 cm, Gewicht 130 g
<https://www.levelup.de/products/bedleuchten/verico/pendelleuchten>
ca. 1000



Allgemeinbeleuchtung Eingang
(Tür, Küche, Flur)
Deckenleuchte
2 Stück
Fz. 100W, Typ Vertico
LED, 12 PL, 2.700 K
Abm.: 100mm, Höhe 300 mm
<https://www.levelup.de/products/bedleuchten/verico/pendelleuchten>
ca. 1000



Wohnen und Essen DA/SS
Schlafen DA/SS
Rad DA/SS
Wohnen und Essen DA/SS
Flur DA/SS
Wohnen und Essen DA/SS
Wohnen und Essen DA/SS



Schlafleuchte POS. 4/57
Wohnzimmer
Typical Traditionschiff
ca. 1000



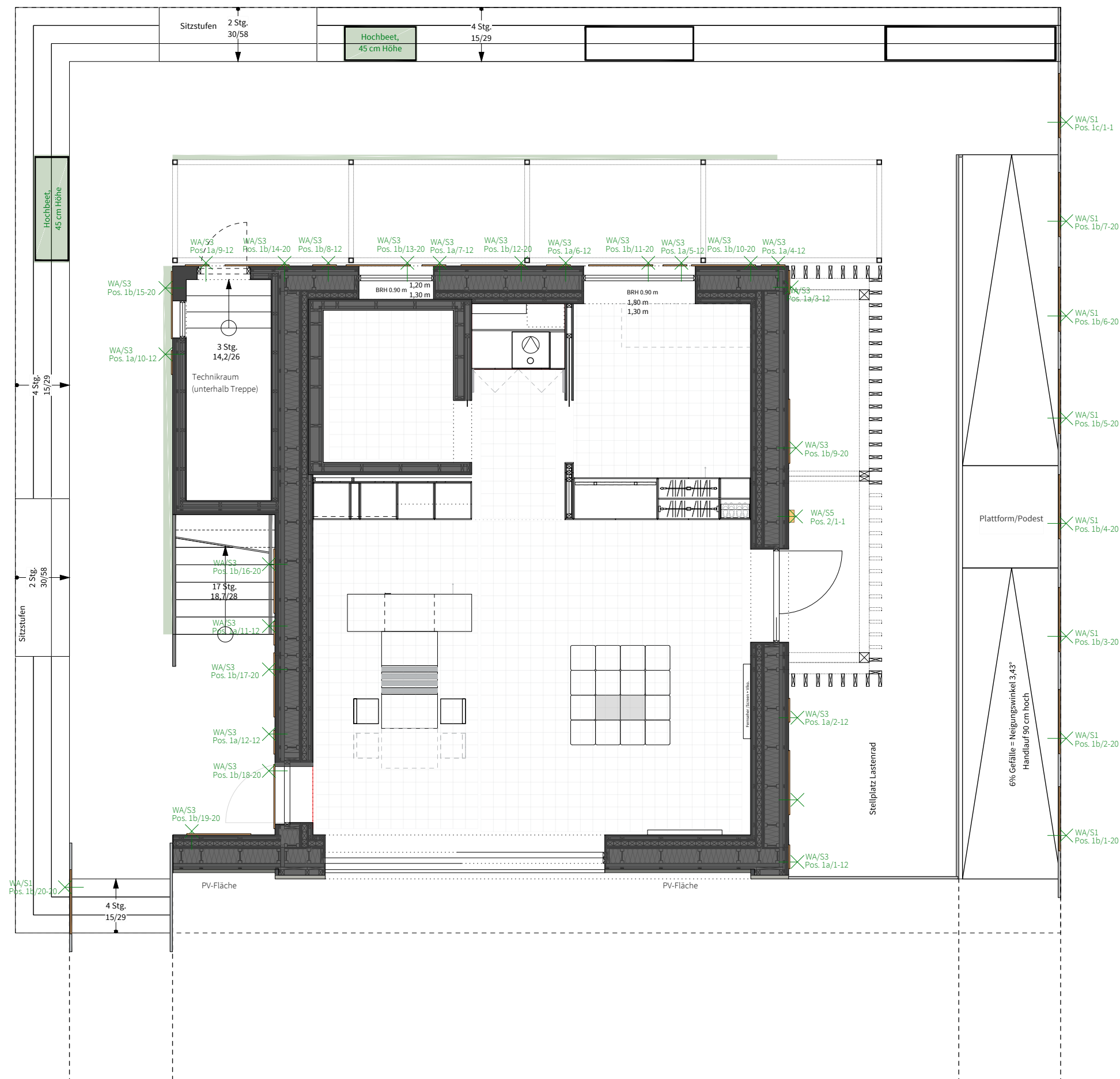
Schlafleuchte POS. 4/57
Wohnzimmer
Typical Traditionschiff
ca. 1000



Schlafleuchte POS. 4/57
Wohnzimmer
Typical Traditionschiff
ca. 1000



Schlafleuchte POS. 4/57
Wohnzimmer
Typical Traditionschiff
ca. 1000



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Pos. 1a/b/c – Lichtband
1a: 17 Stk., Länge ca. 385mm
Fa. InstaLight, Typ OHR 2 A1 L1
LED, 2,7W, 2.700 K, IP67,69,69K, D-Wire

1b: 26 Stk., Länge ca. 1035mm
Fa. InstaLight, Typ OHR 2 A1 L1
LED, 8W, 2.700 K, IP67,69,69K, D-Wire

1c: 1 Stk., Länge ca. 1035mm
Fa. InstaLight, Typ OHR 2 A2 L1
LED, 8W, 2.700 K, IP67,69,69K, D-Wire

Pos. 2 – Wandanbauleuchte
1 Stück
Fa. Louis Poulsen, Typ Flindt ø200mm
LED, 10 W, 2.700 K, DALI

Pos. 3 – Pendelleuchte
6 Stück
Fa. Nimbus, Typ Underscore InOut EA42
LED, W, 2.700 K, IP, on/off

Pos. 4 – Tragbare Leuchte
5 Stück
Fa. Tobias Grau, Typ Salt&Pepper
LED, 5 W, 2.700-2.200 K, IP21, on/off

Scale
1:75 (A3 420x297)

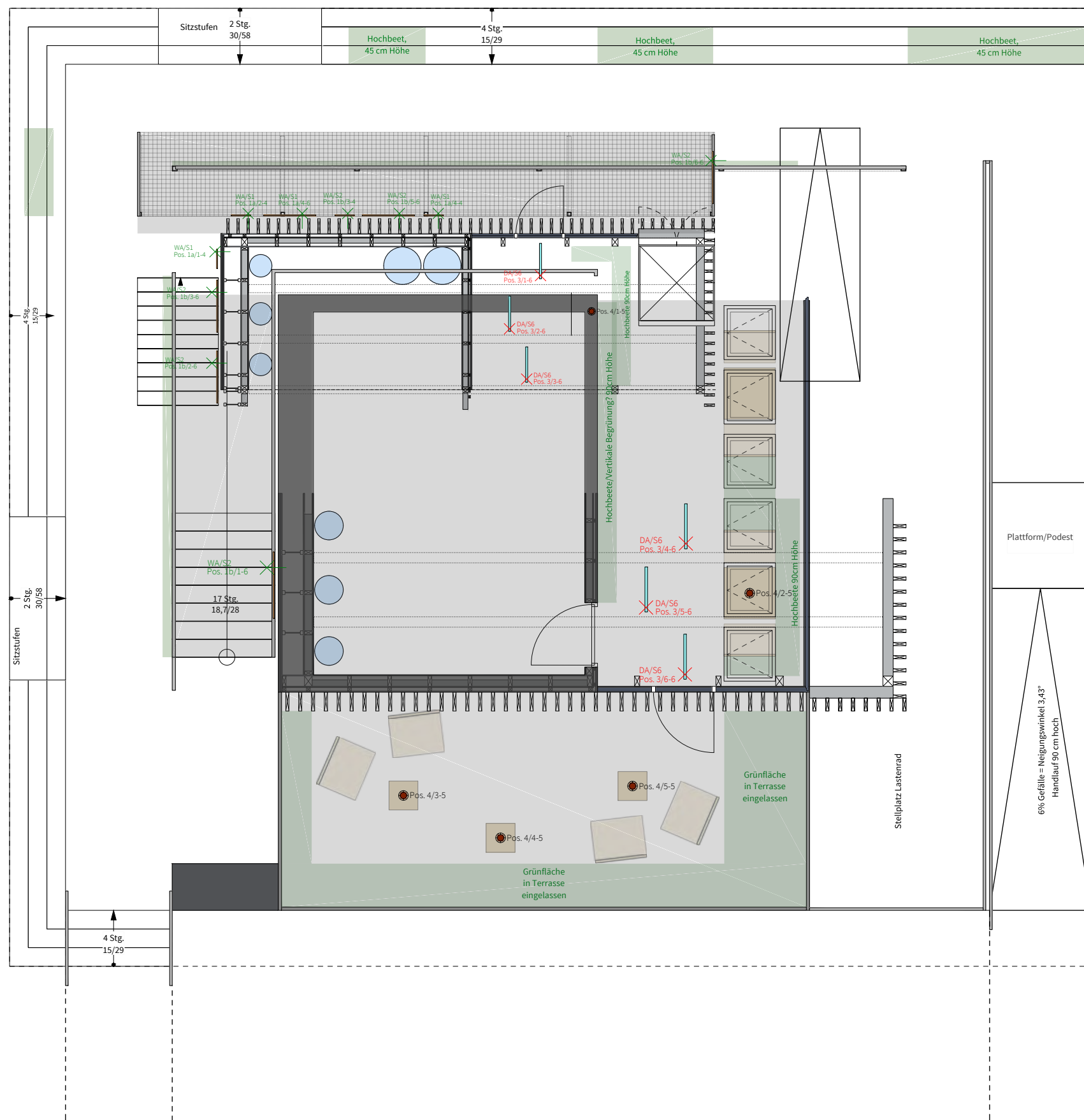
Phase
D#6

Drawing Content-HDU

Lighting Plan

Outside - Level 01

EL-4002



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Pos. 1a/b/c – Lichtband
1a: 17 Stk., Länge ca. 385mm
Fa. InstaLight, Typ OHR 2 A1 L1
LED, 2,7W, 2.700 K, IP67,69,69K, D-Wire

1b: 26 Stk., Länge ca. 1035mm
Fa. InstaLight, Typ OHR 2 A1 L1
LED, 8W, 2.700 K, IP67,69,69K, D-Wire

1c: 1 Stk., Länge ca. 1035mm
Fa. InstaLight, Typ OHR 2 A2 L1
LED, 8W, 2.700 K, IP67,69,69K, D-Wire

Pos. 2 – Wandanbauleuchte
1 Stück
Fa. Louis Poulsen, Typ Flindt ø200mm
LED, 10 W, 2.700 K, DALI

Pos. 3 – Pendelleuchte
6 Stück
Fa. Nimbus, Typ Underscore InOut EA42
LED, W, 2.700 K, IP, on/off

Pos. 4 – Tragbare Leuchte
5 Stück
Fa. Tobias Grau, Typ Salt&Pepper
LED, 5 W, 2.700-2.200 K, IP21, on/off

Scale
1:75 (A3 420x297)

Phase
D#6

Drawing Content-HDU

Lighting Plan

Outside - Level 02

EL-4003

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

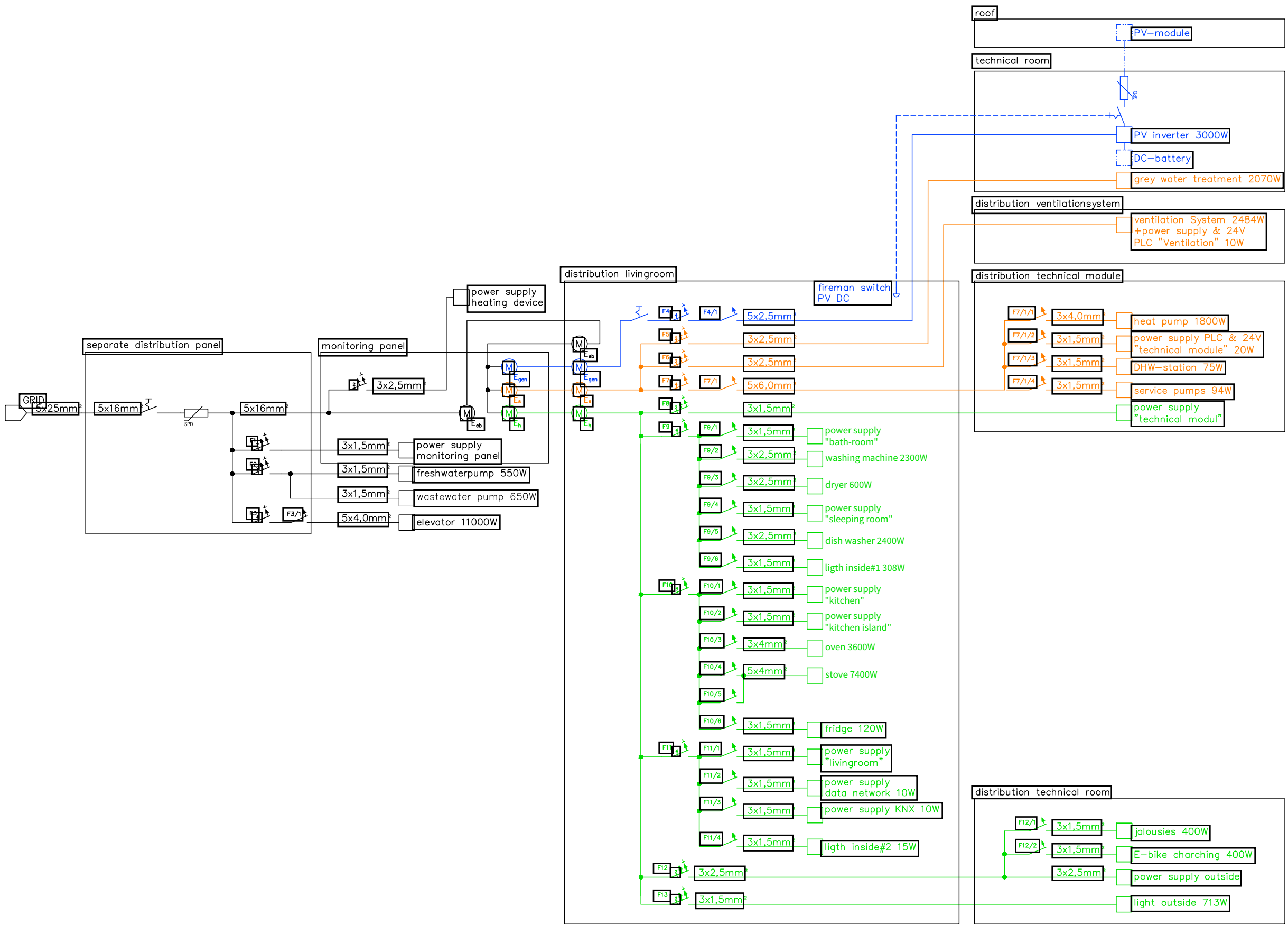
General / Grid	—
PV - AC	—
PV - DC	—
Service (HVAC)	—
Household (light, household appliances, etc.)	—

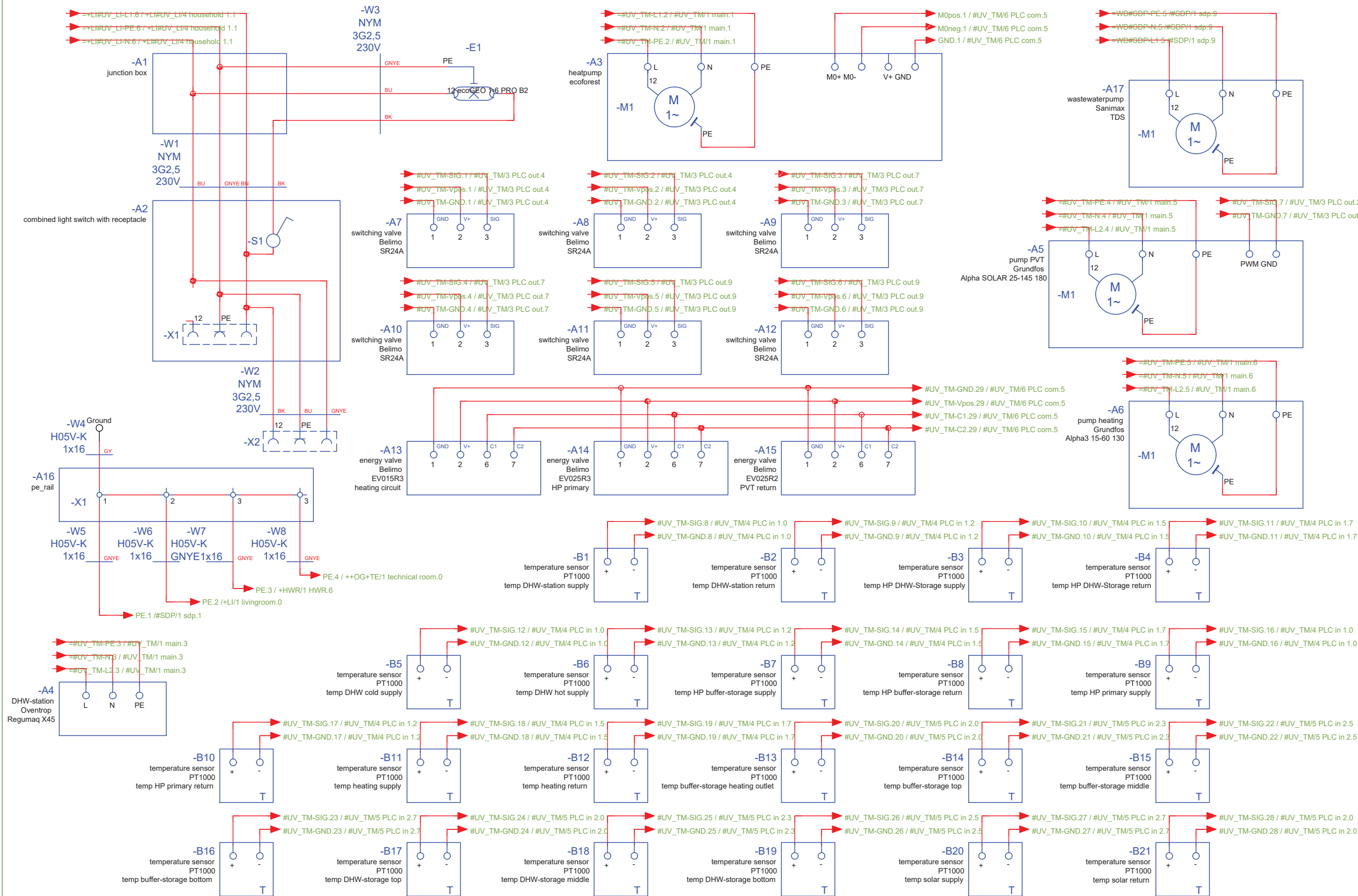
Scale
n.t.s. (A3 420x297)

Phase
D#6

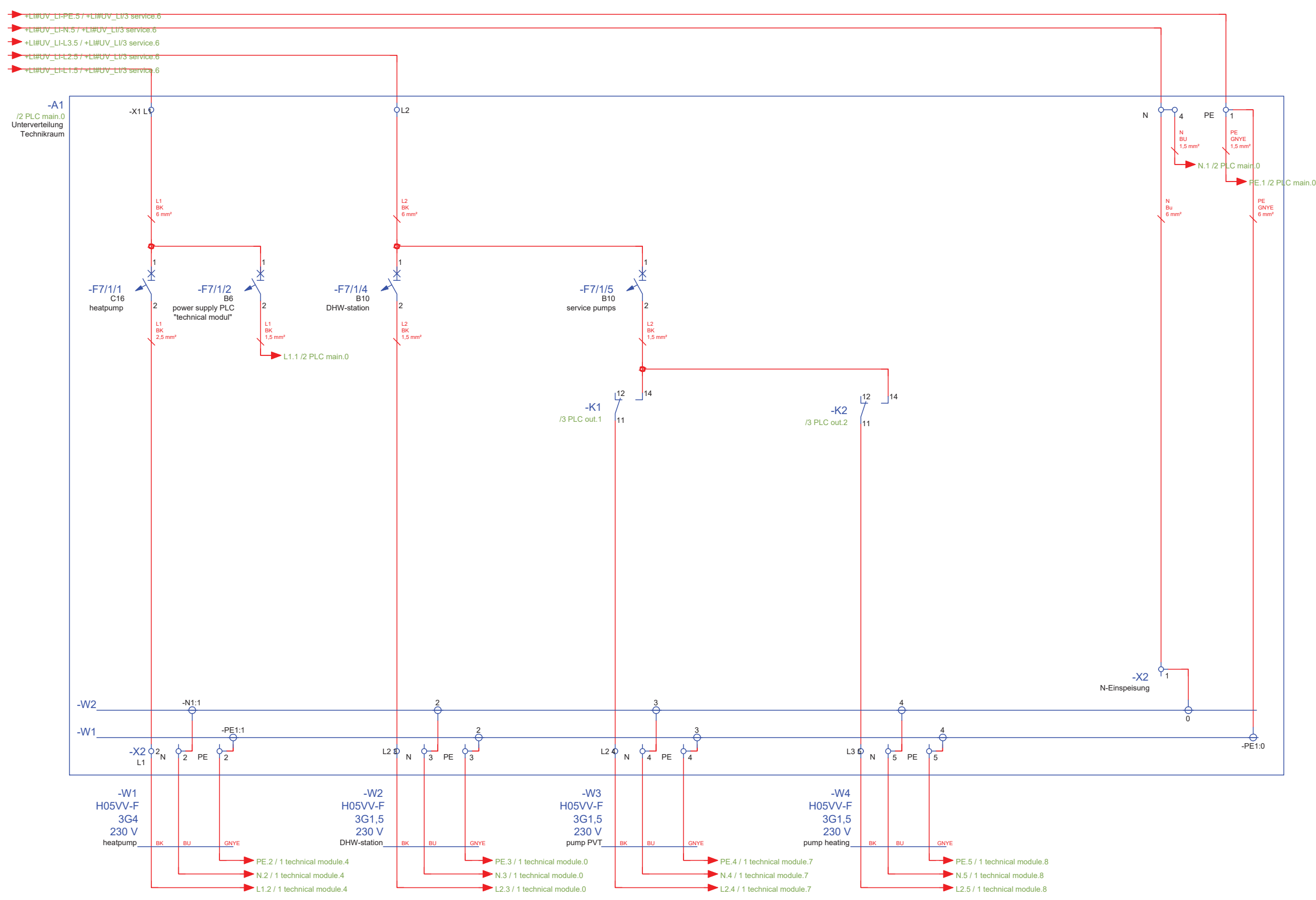
Drawing Content-HDU
One-line Diagram

EL-5001





technical modul - distribution
++EG+TM#UV_TM/main



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

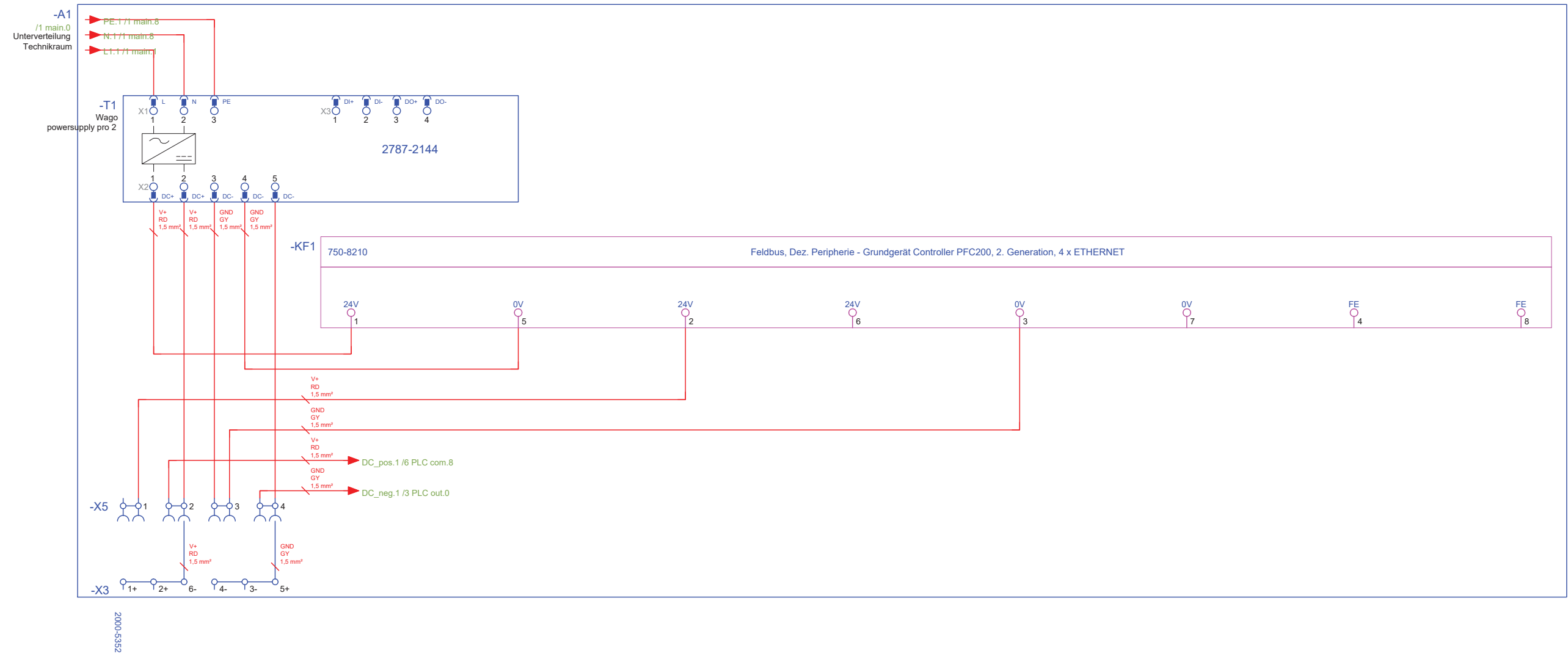
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
AC Circuit layout

EL-6002

technical modul - distribution
++EG+TM#UV_TM/PLC_main



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

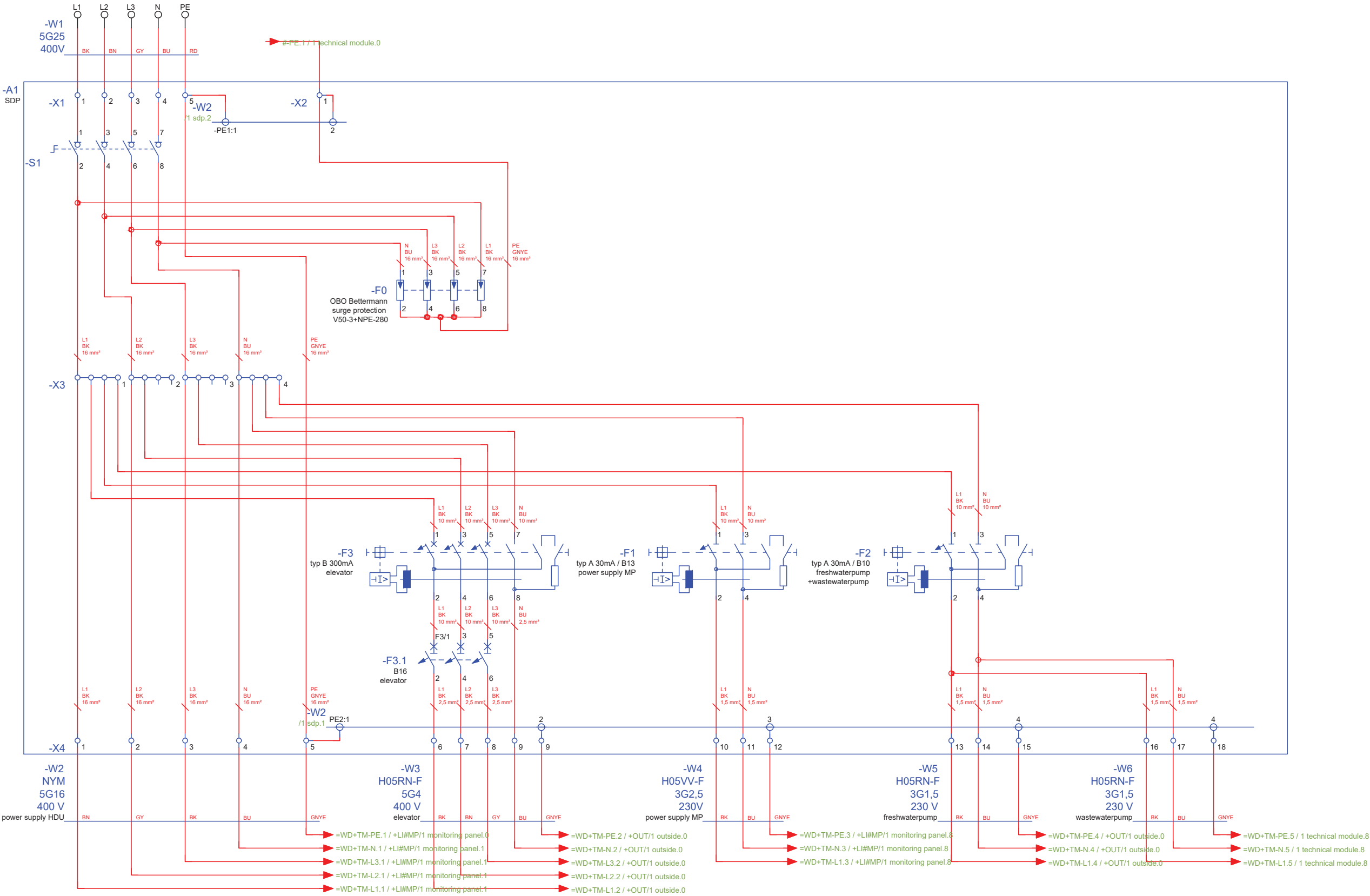
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
AC Circuit layout

EL-6003

technical modul - seperat distribution panel
++EG+TM#SDP



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale
n.t.s. (A3 420x297)

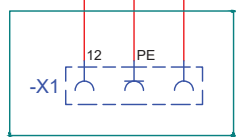
Phase
D#6

Drawing Content-HDU
AC Circuit layout

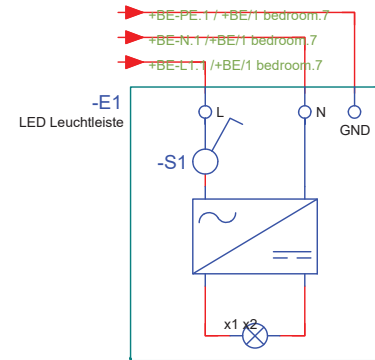
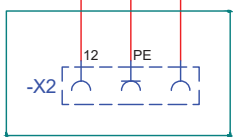
EL-6004

utility room
++EG+HWR

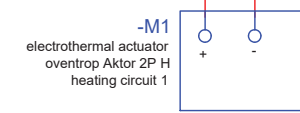
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+L#UV_LI-N.8 / +L#UV_LI/4 household 1.5
+L#UV_LI-L2.8 / +L#UV_LI/4 household 1.5



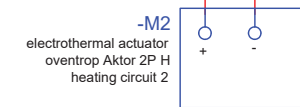
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+L#UV_LI-N.9 / +L#UV_LI/4 household 1.6
+L#UV_LI-L3.9 / +L#UV_LI/4 household 1.6



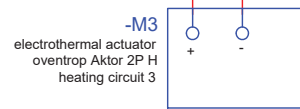
#UV_HWR-SIG.3 /1 HWR.6
#UV_HWR-SIG.3 /1 HWR.6



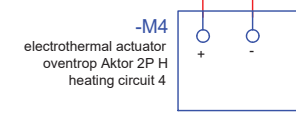
#UV_HWR-GND.4 /#UV_HWR/3 PLC out 2.4
#UV_HWR-SIG.4 /#UV_HWR/3 PLC out 2.4



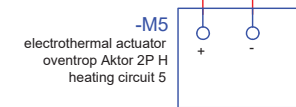
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#UV_HWR-SIG.6 /#UV_HWR/3 PLC out 2.6



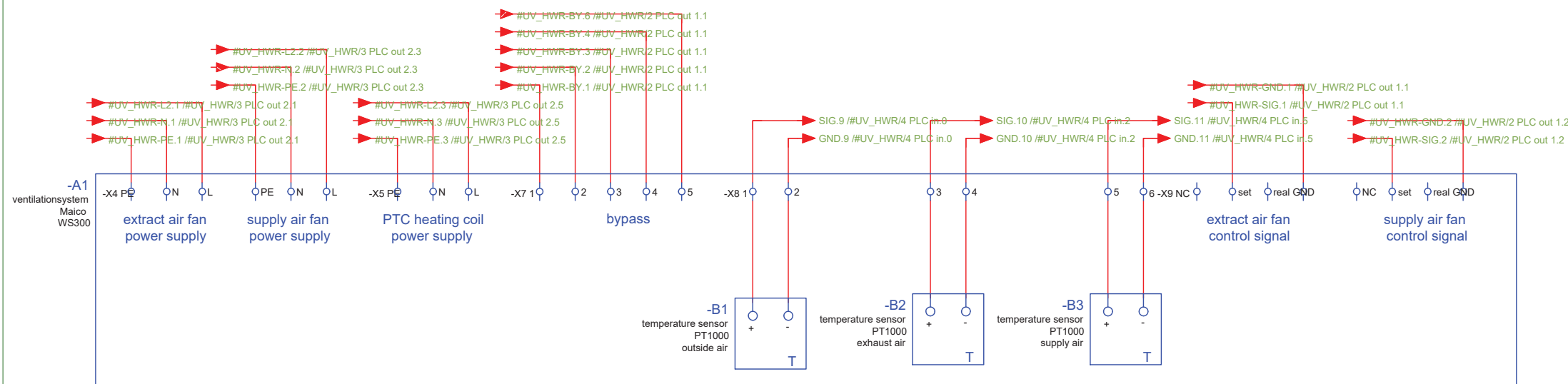
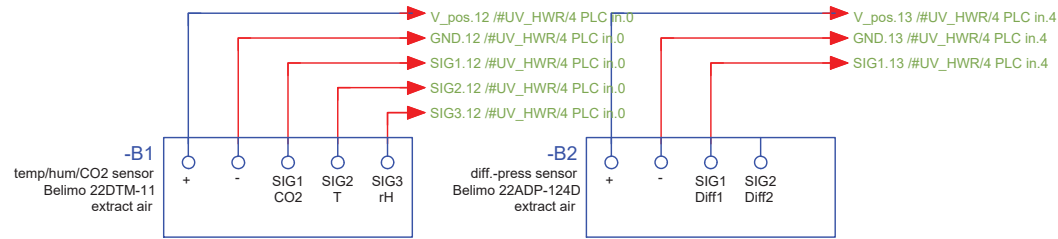
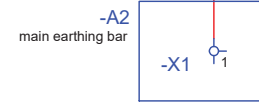
#UV_HWR-GND.7 /#UV_HWR/3 PLC out 2.8
#UV_HWR-SIG.7 /#UV_HWR/3 PLC out 2.8



#UV_HWR-GND.8 /#UV_HWR/3 PLC out 2.9
#UV_HWR-SIG.8 /#UV_HWR/3 PLC out 2.9



+TMP-PE.3 / +TM/1 technical module.1



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale
n.t.s. (A3 420x297)

Phase
D#6

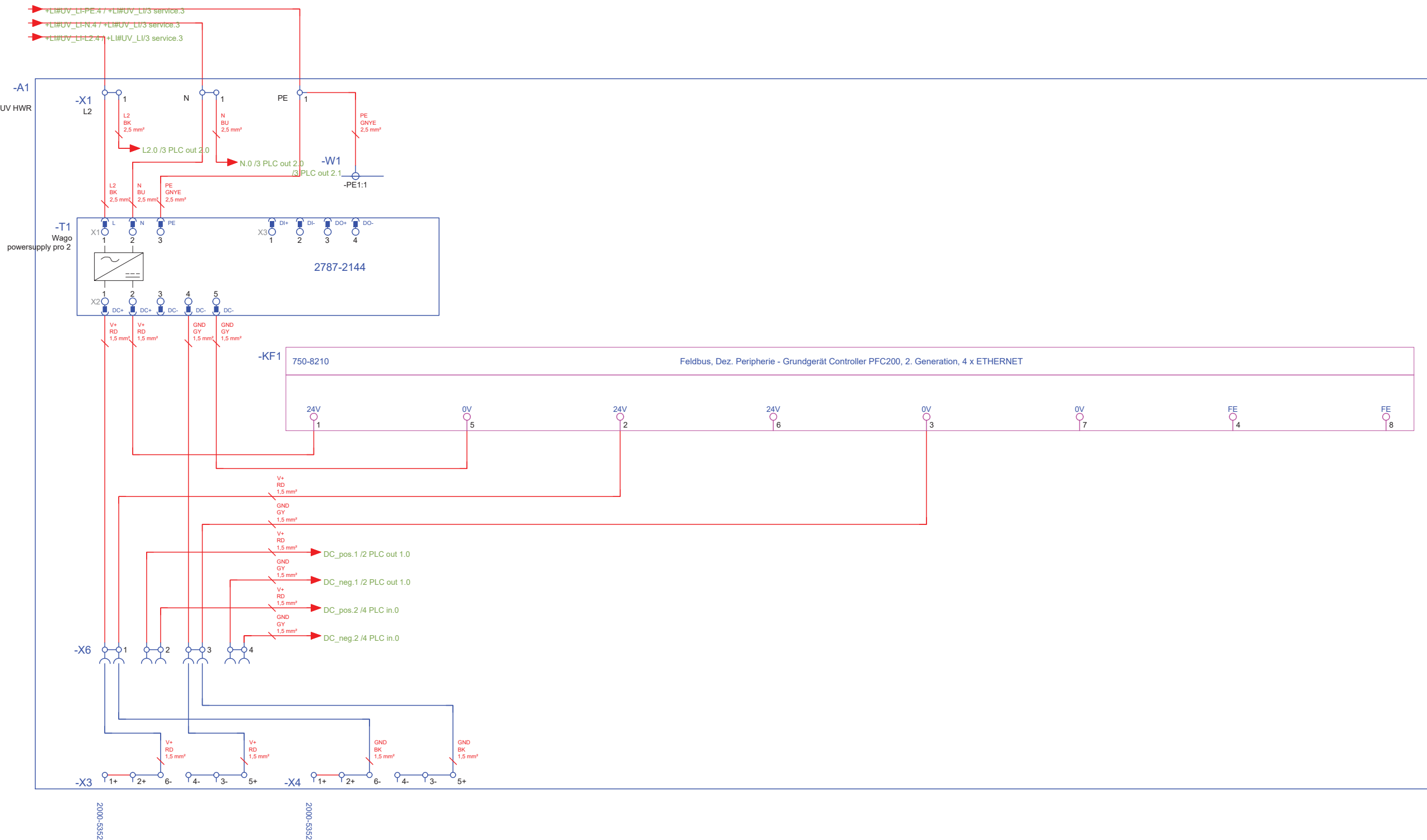
Drawing Content-HDU
AC Circuit layout

EL-6005

utility room - distribution
++EG+HWR#UV_HWR/PLC_main



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



Scale Phase
n.t.s. (A3 420x297) **D#6**

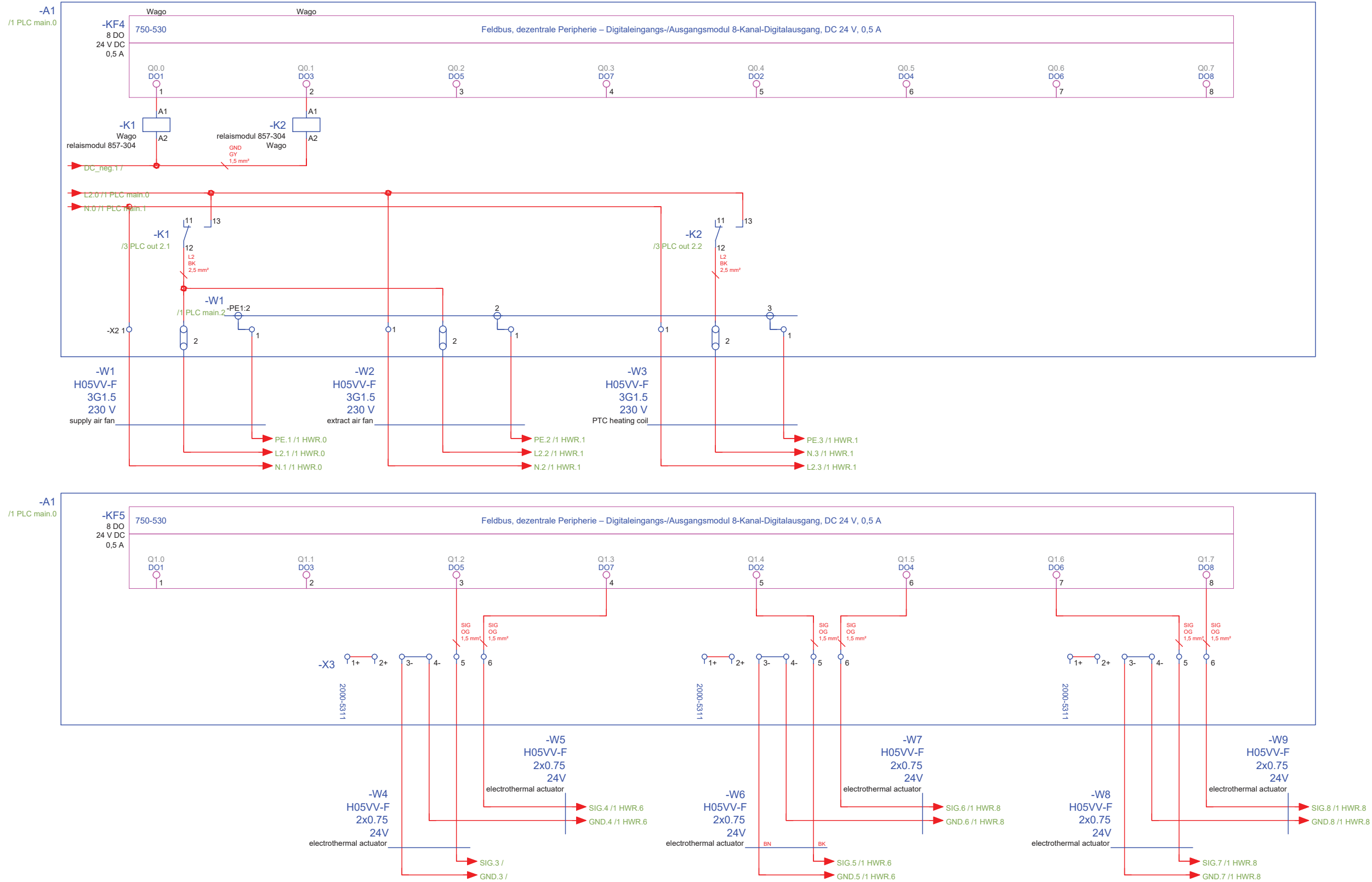
AC Circuit layout

EL-6006

utility room - distribution
++EG+HWR#UV_HWR/PLC_OUT 2



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



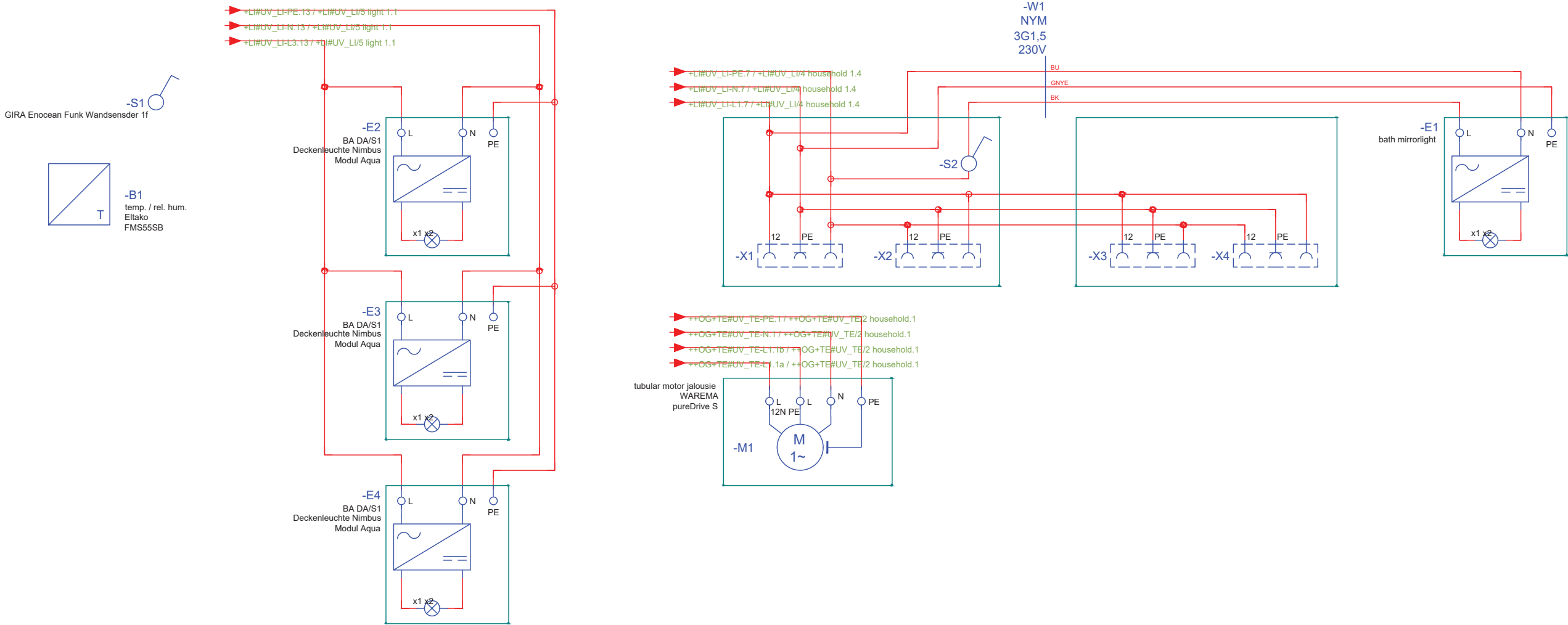
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
AC Circuit layout

EL-6007

bathroom
++EG+BA



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

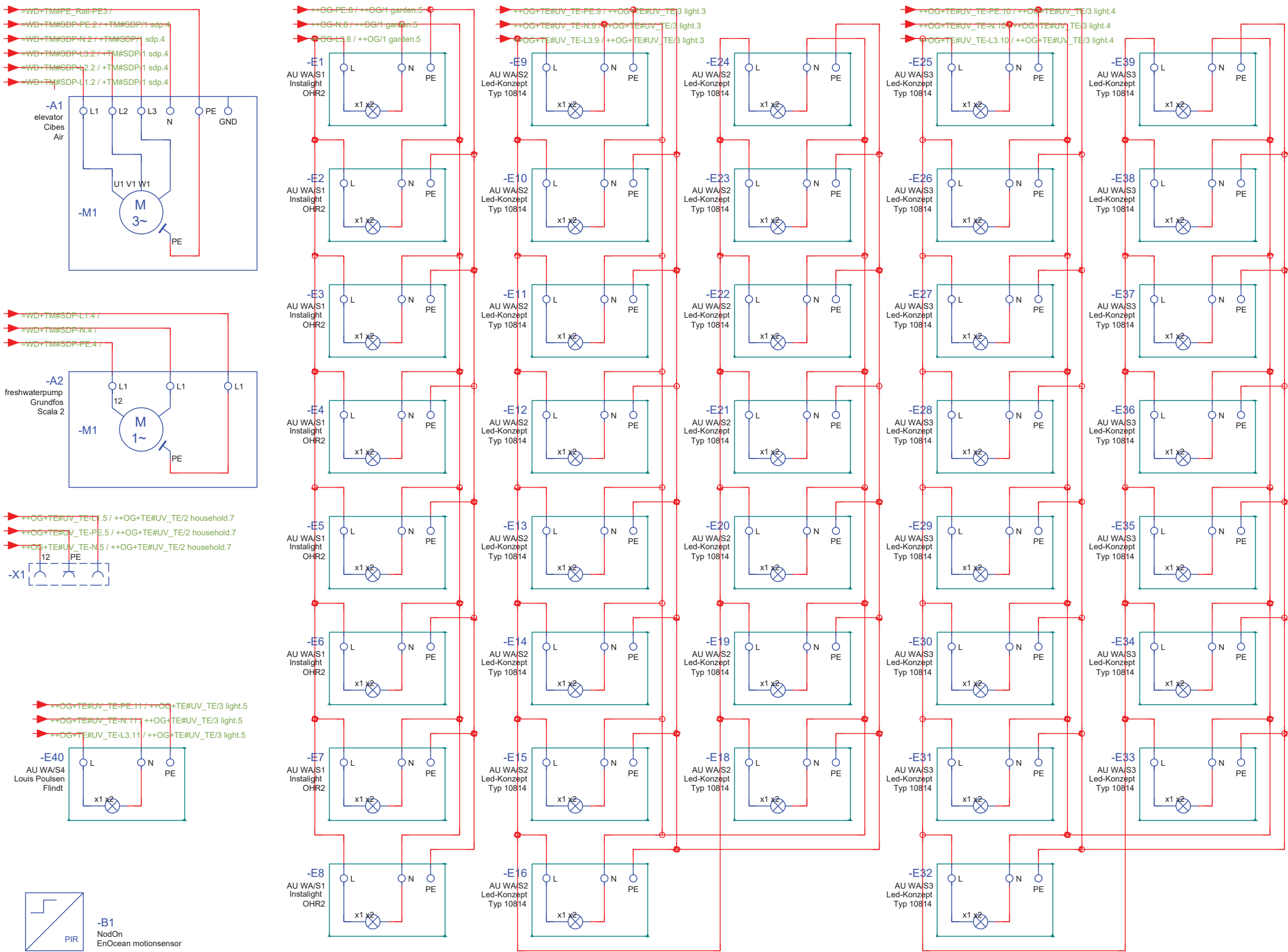
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
AC Circuit layout

EL-6008

outside
++EG+OUT



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

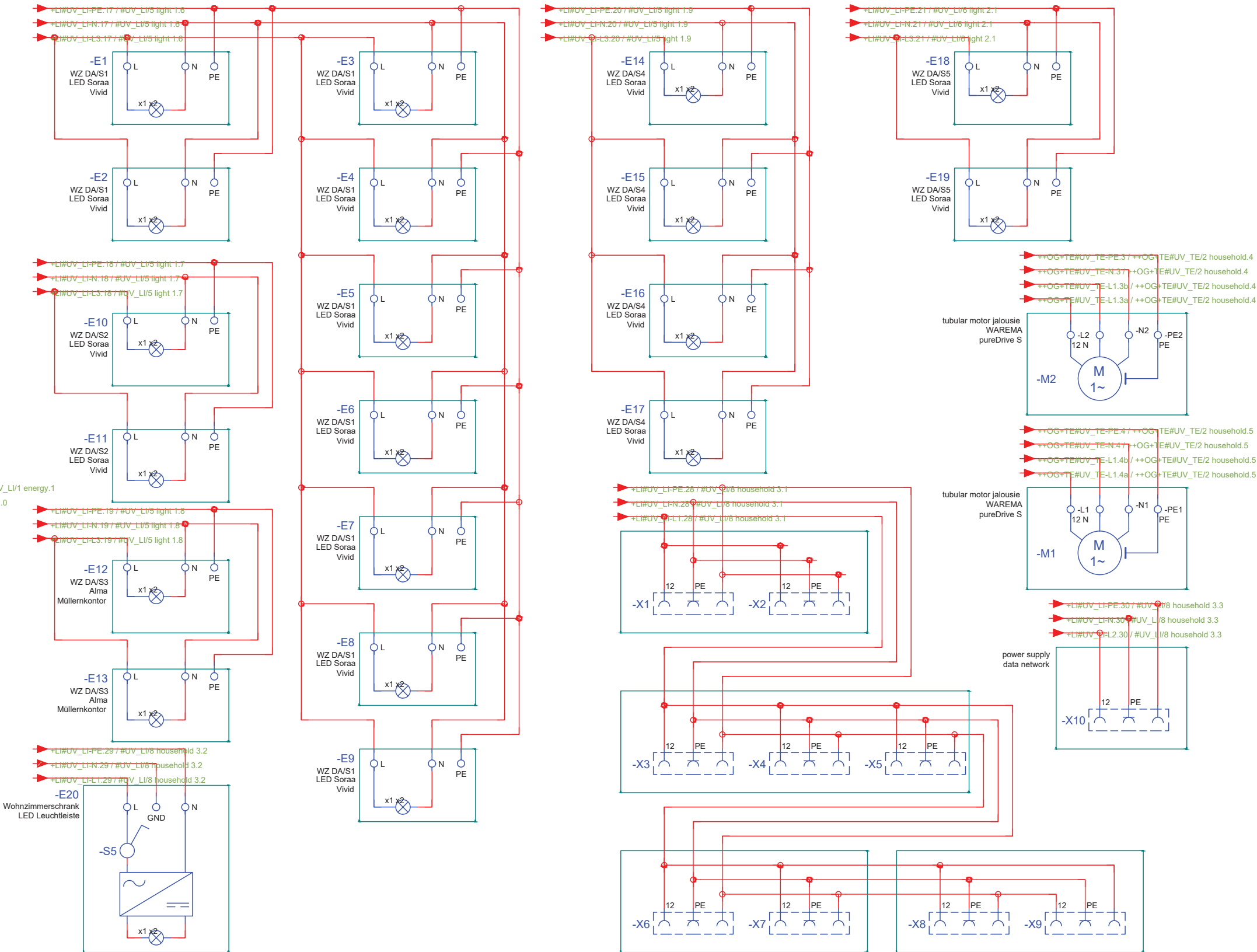
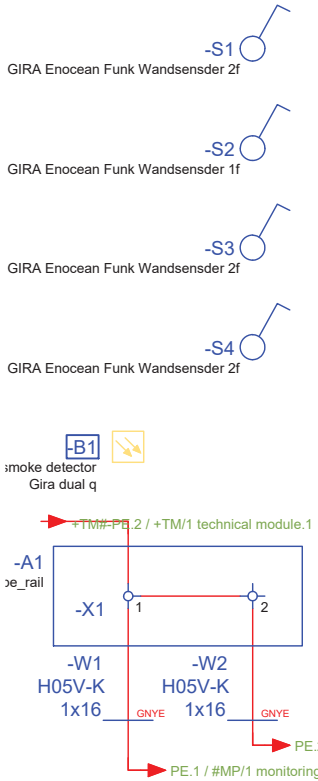
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
AC Circuit layout

EL-6009

livingroom
++EG+LI



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
AC Circuit layout

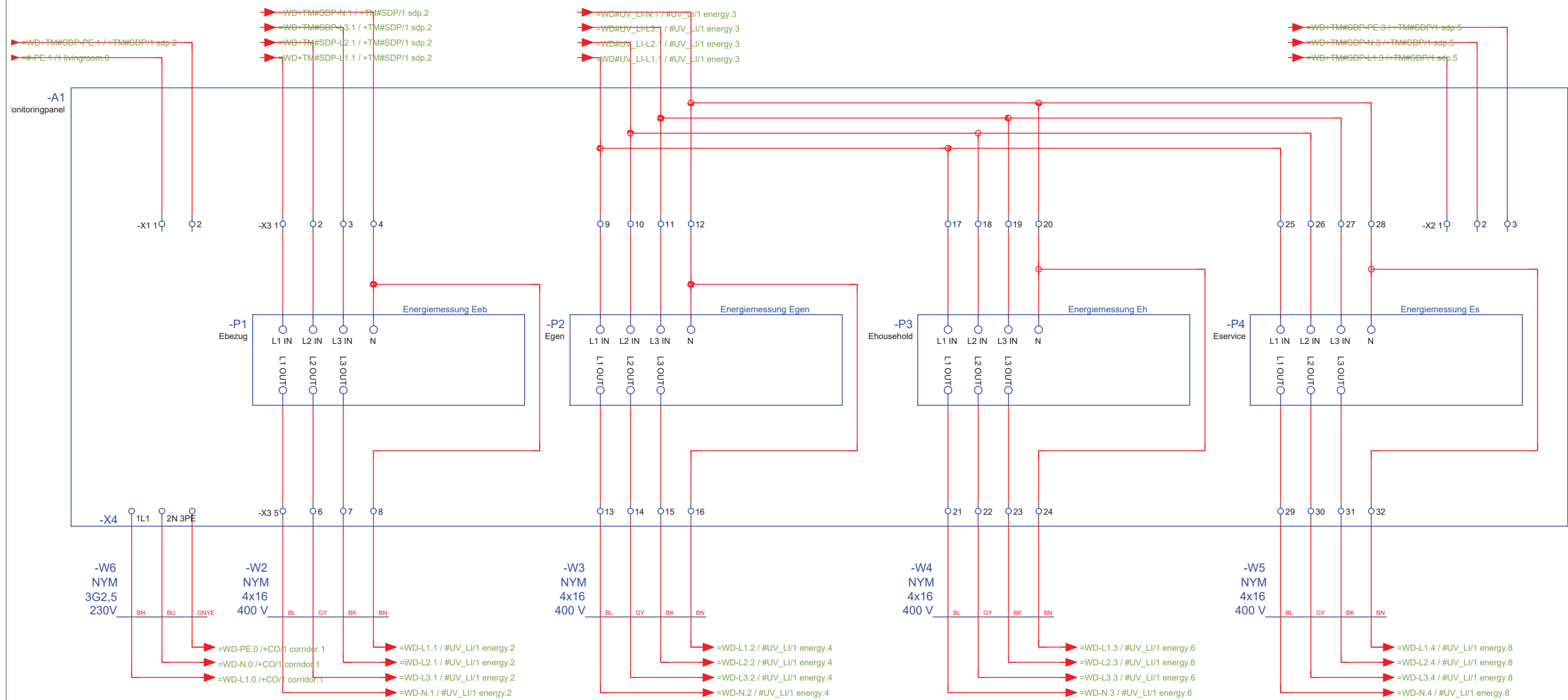
EL-6010

livingroom - monitoring panel
++EG+LI#MP



- General
- Architecture
- Interiors
- Structural
- Plumbing
- Solar Water Heating
- Mechanical
- Electrical**
- Photovoltaic System
- Teleco. & Build. Aut. System
- Instrumentation Drawings
- Site Operations
- Fire Protection
- Health & Safety
- Public Tour

GE
AR
IN
ST
PL
SW
ME
EL
PV
BAS
ID
SO
FP
HS
PT



Scale
n.t.s. (A3 420x297)

Phase
D#6

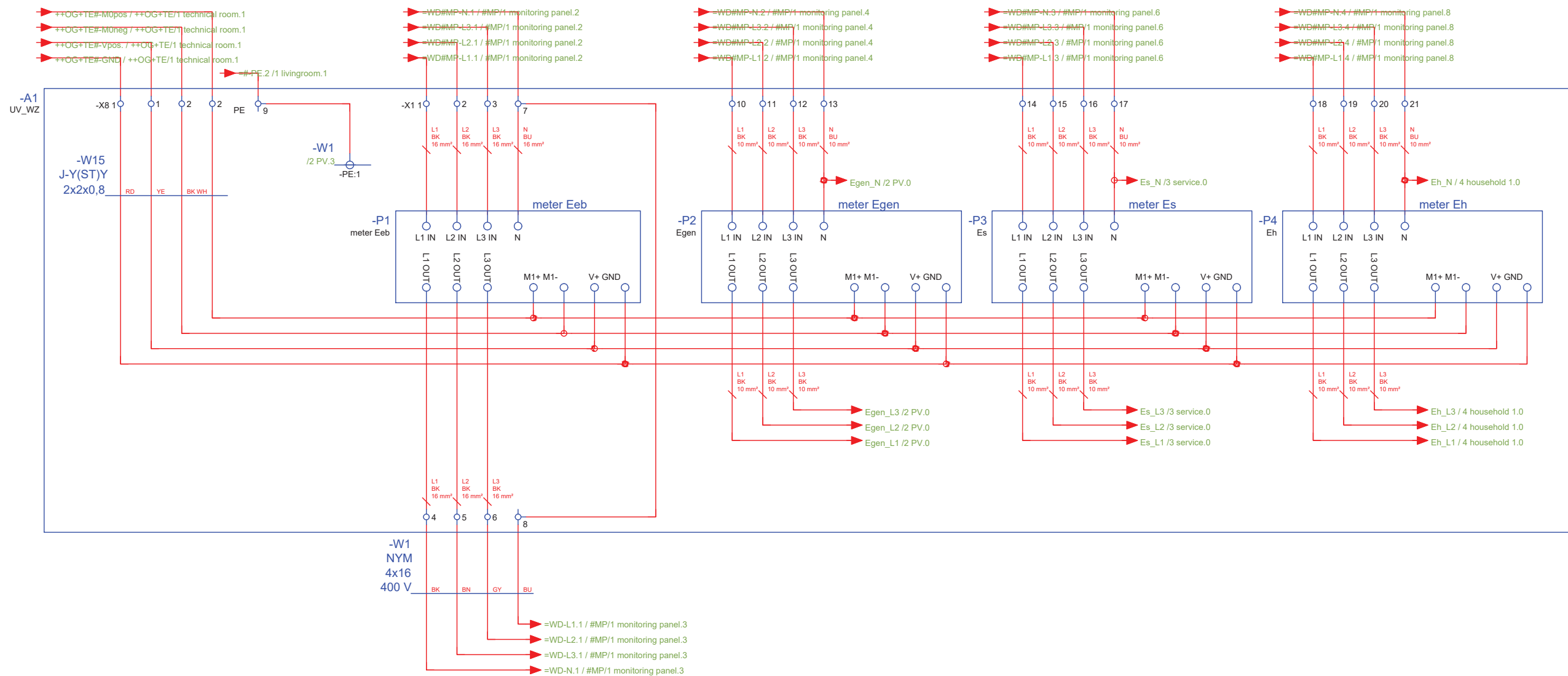
AC Circuit layout

EL-6011

livingroom - distribution
++EG+LI#UV_LI/energy



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



Scale
n.t.s. (A3 420x297)

Phase
D#6

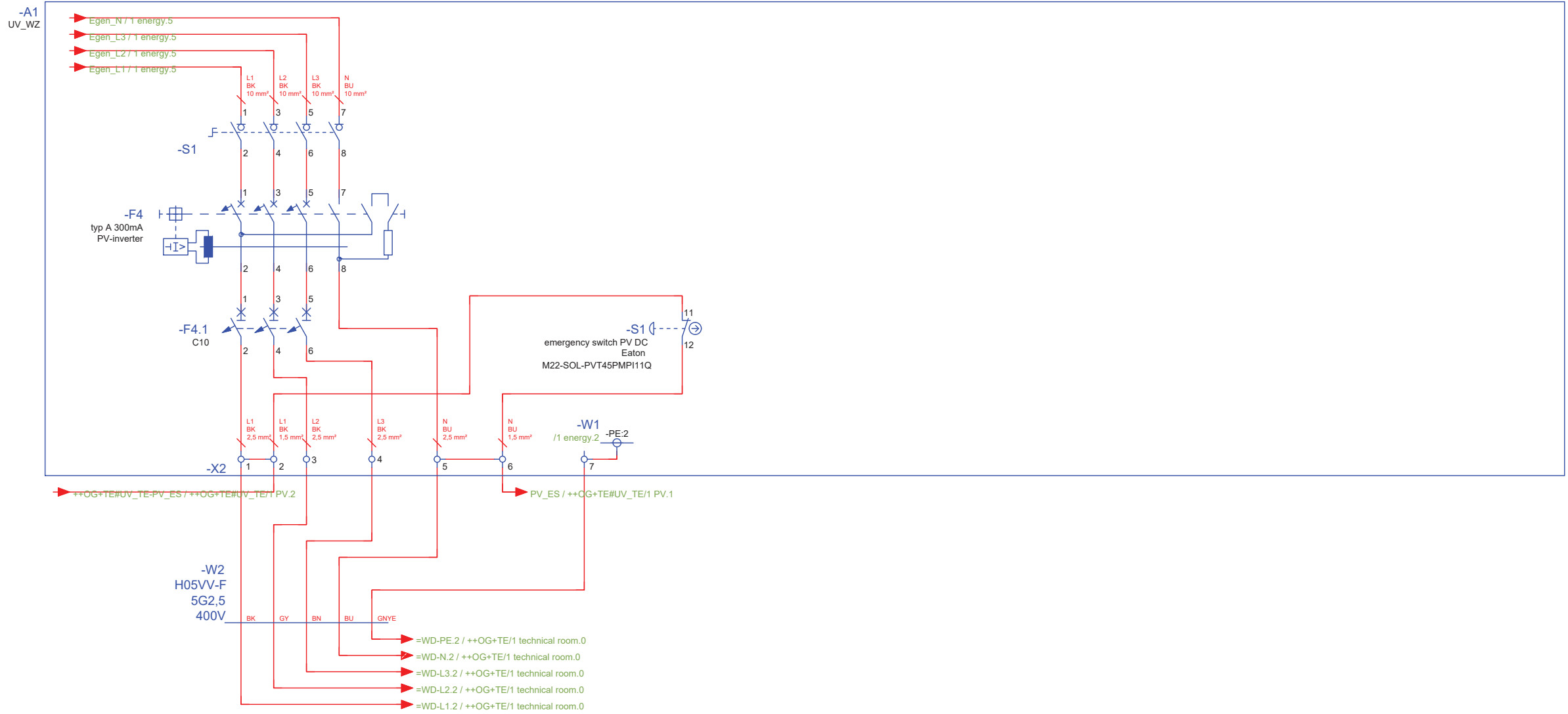
Drawing Content-HDU
AC Circuit layout

EL-6012

livingroom - distribution
++EG+LI#UV_LI/PV



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



Scale
n.t.s. (A3 420x297)

Phase
D#6

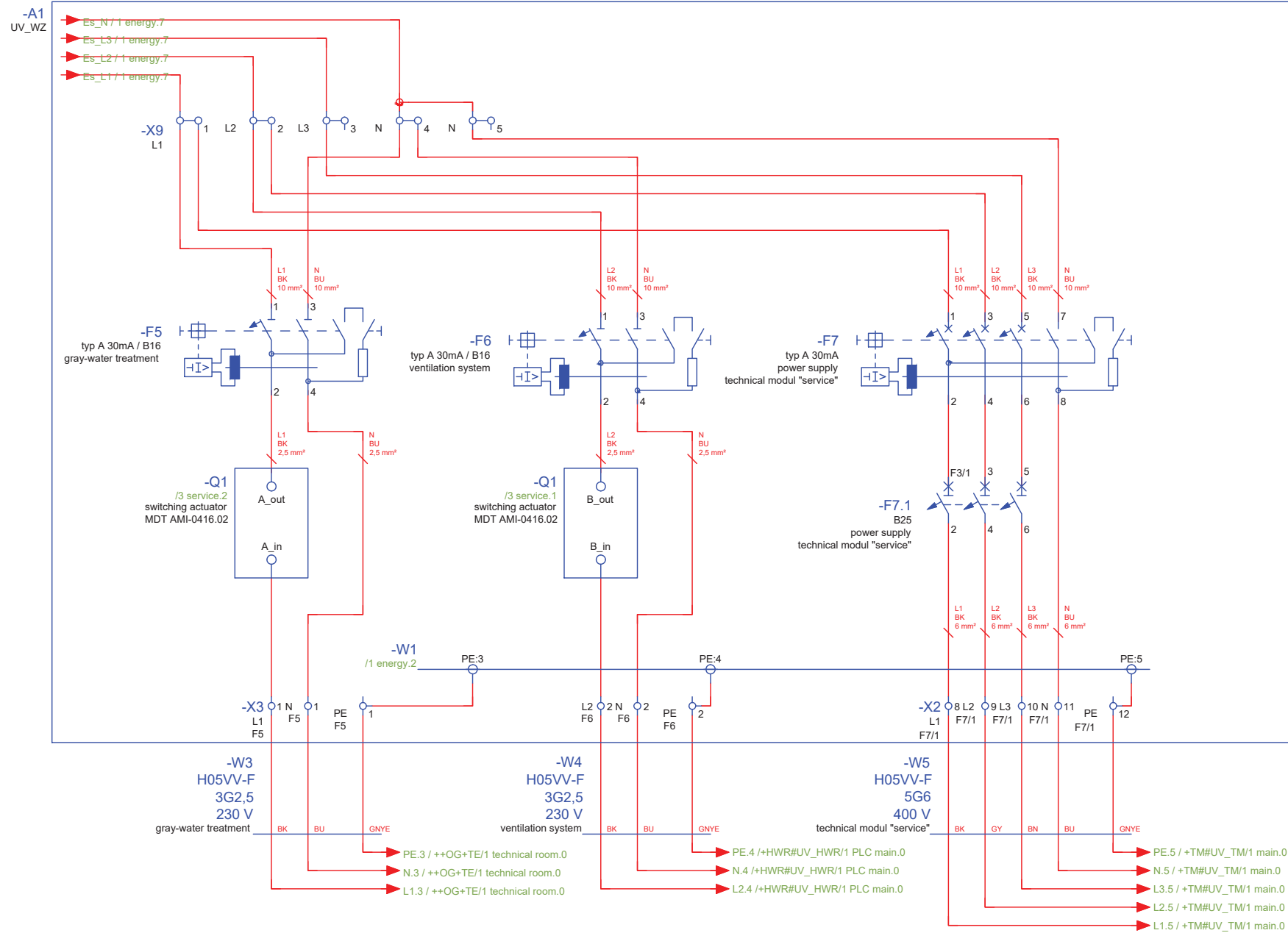
Drawing Content-HDU
AC Circuit layout

EL-6013

livingroom - distribution
++EG+LI#UV_LI/service



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



Scale **n.t.s.** (A3 420x297) Phase **D#6**

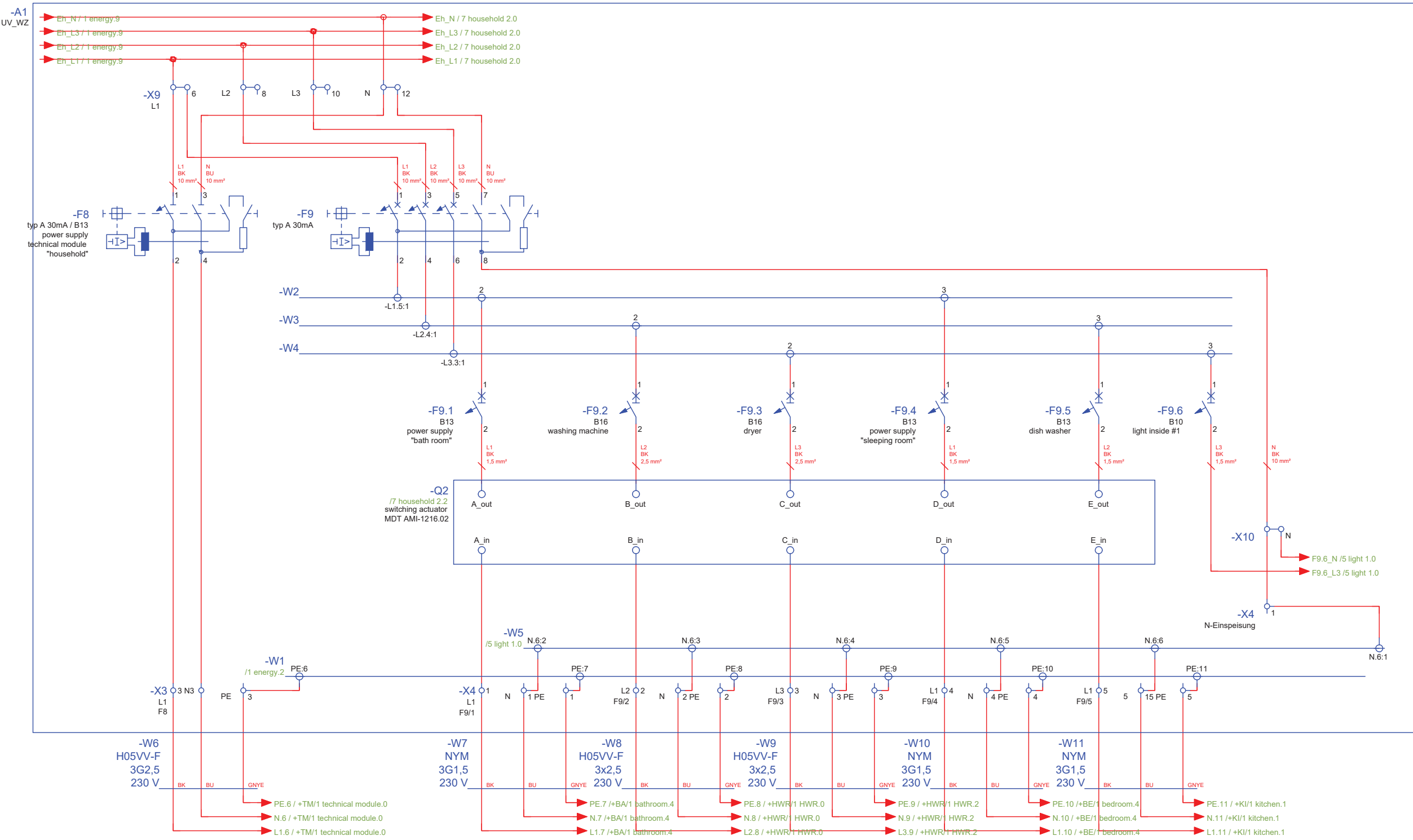
Drawing Content-HDU
AC Circuit layout

EL-6014

livingroom - distribution ++EG+LI#UV_LI/household 1



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



Scale	Phase
n.t.s. (A3 420x297)	D#6

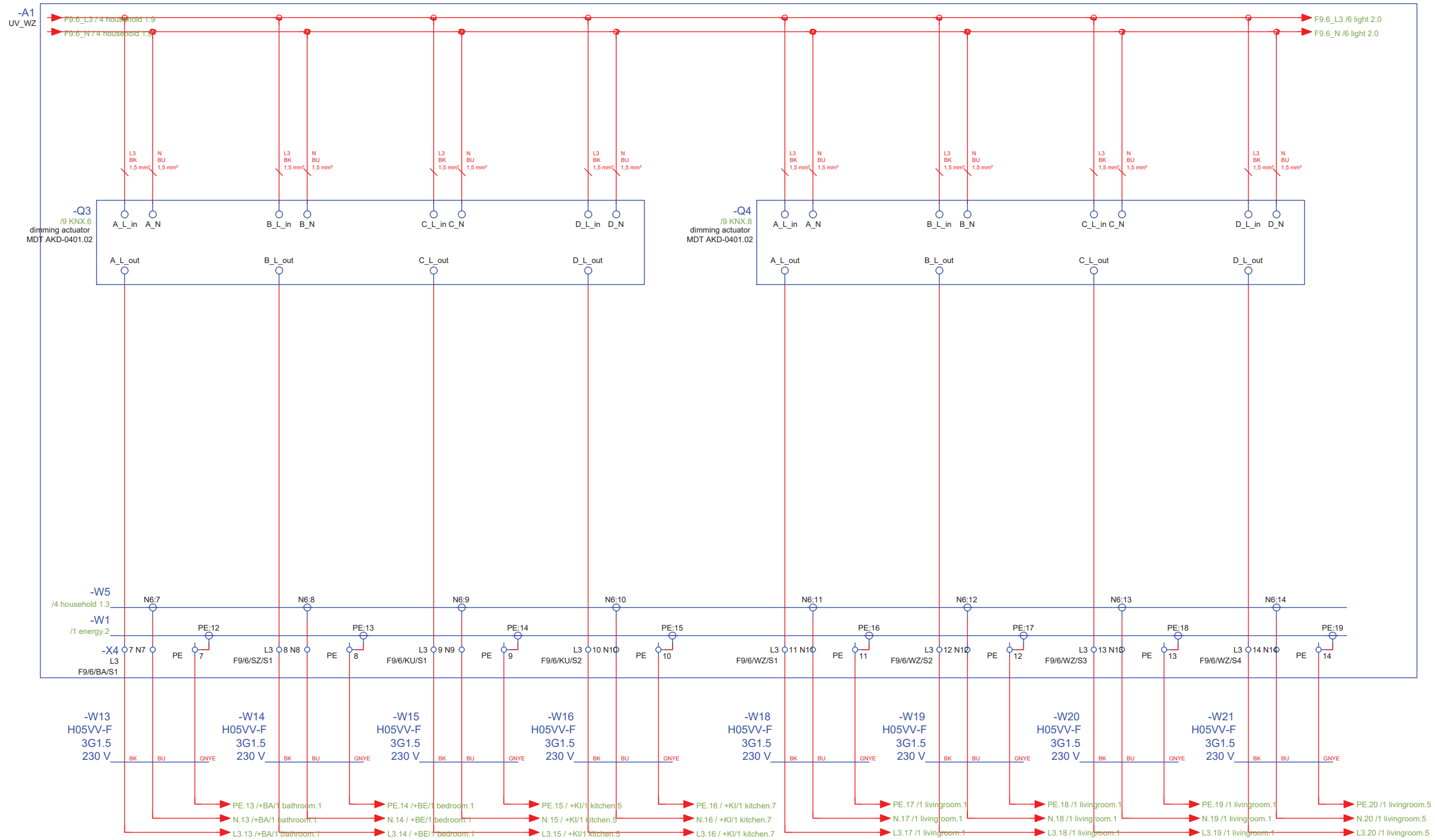
AC Circuit layout

EL-6015

livingroom - distribution
++EG+LI#UV_LI/light 1



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



Scale
n.t.s. (A3 420x297)

Phase
D#6

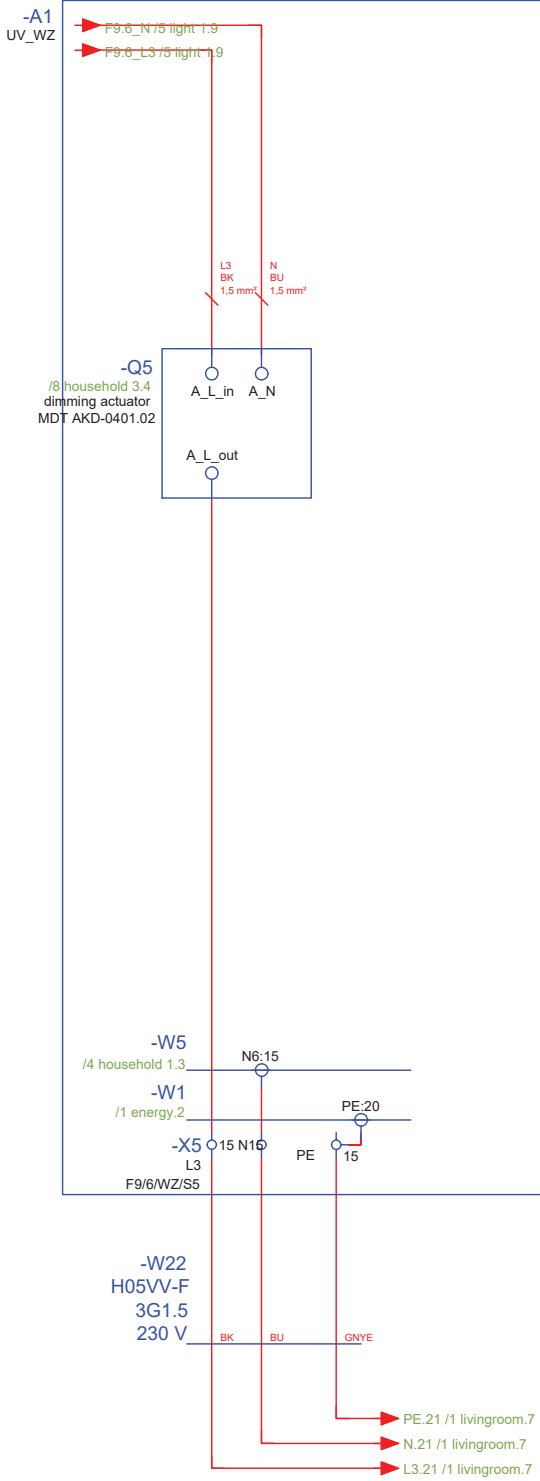
Drawing Content-HDU
AC Circuit layout

EL-6016

livingroom - distribution
++EG+LI#UV_LI/light 2



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



Scale **n.t.s.** (A3 420x297) Phase **D#6**

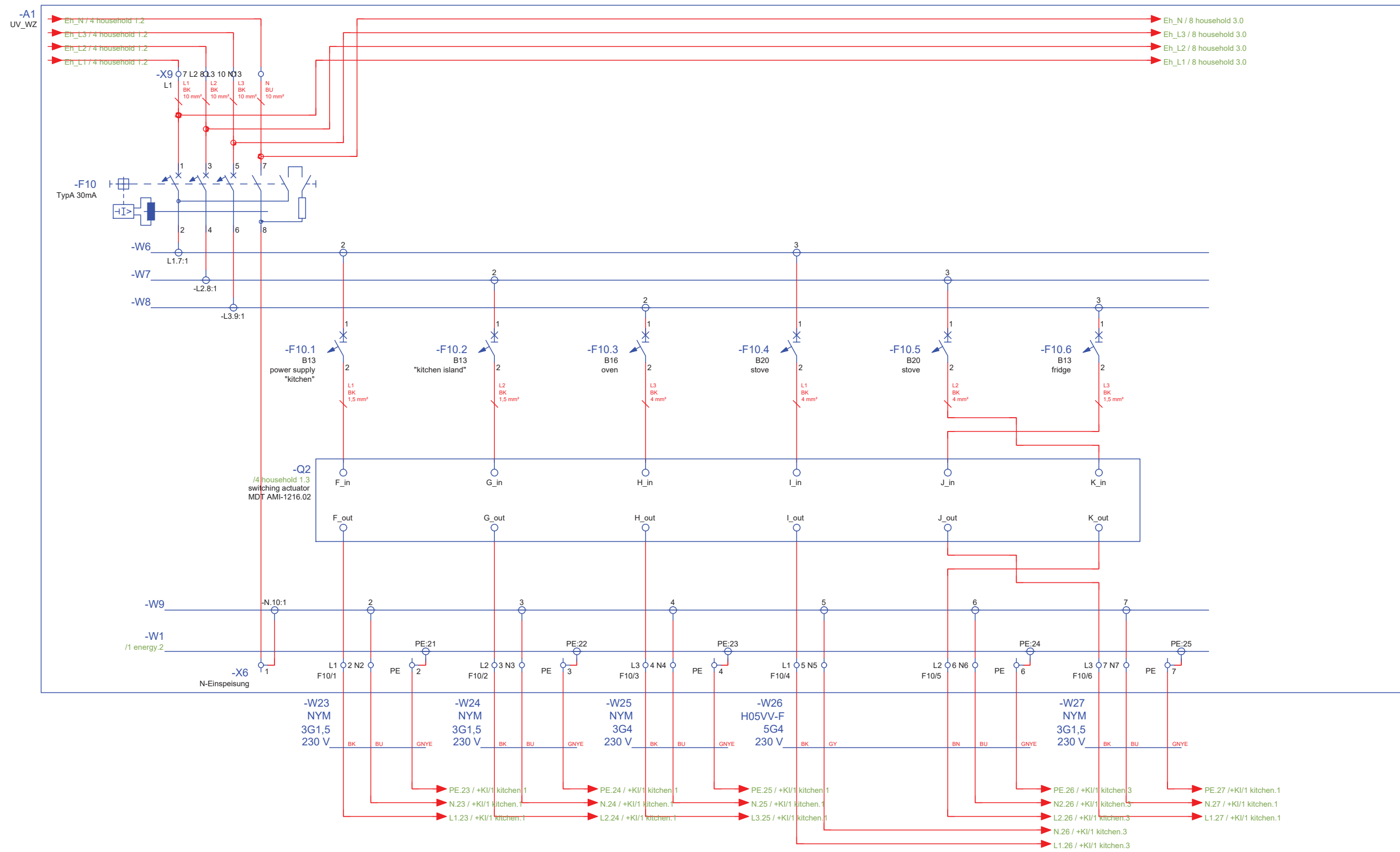
Drawing Content-HDU
AC Circuit layout

EL-6017

livingroom - distribution
++EG+LI#UV_LI/household 2



- General
- Architecture
- Interiors
- Structural
- Plumbing
- Solar Water Heating
- Mechanical
- Electrical**
- Photovoltaic System
- Teleco. & Build. Aut. System
- Instrumentation Drawings
- Site Operations
- Fire Protection
- Health & Safety
- Public Tour



Scale	Phase
n.t.s. (A3 420x297)	D#6

AC Circuit layout

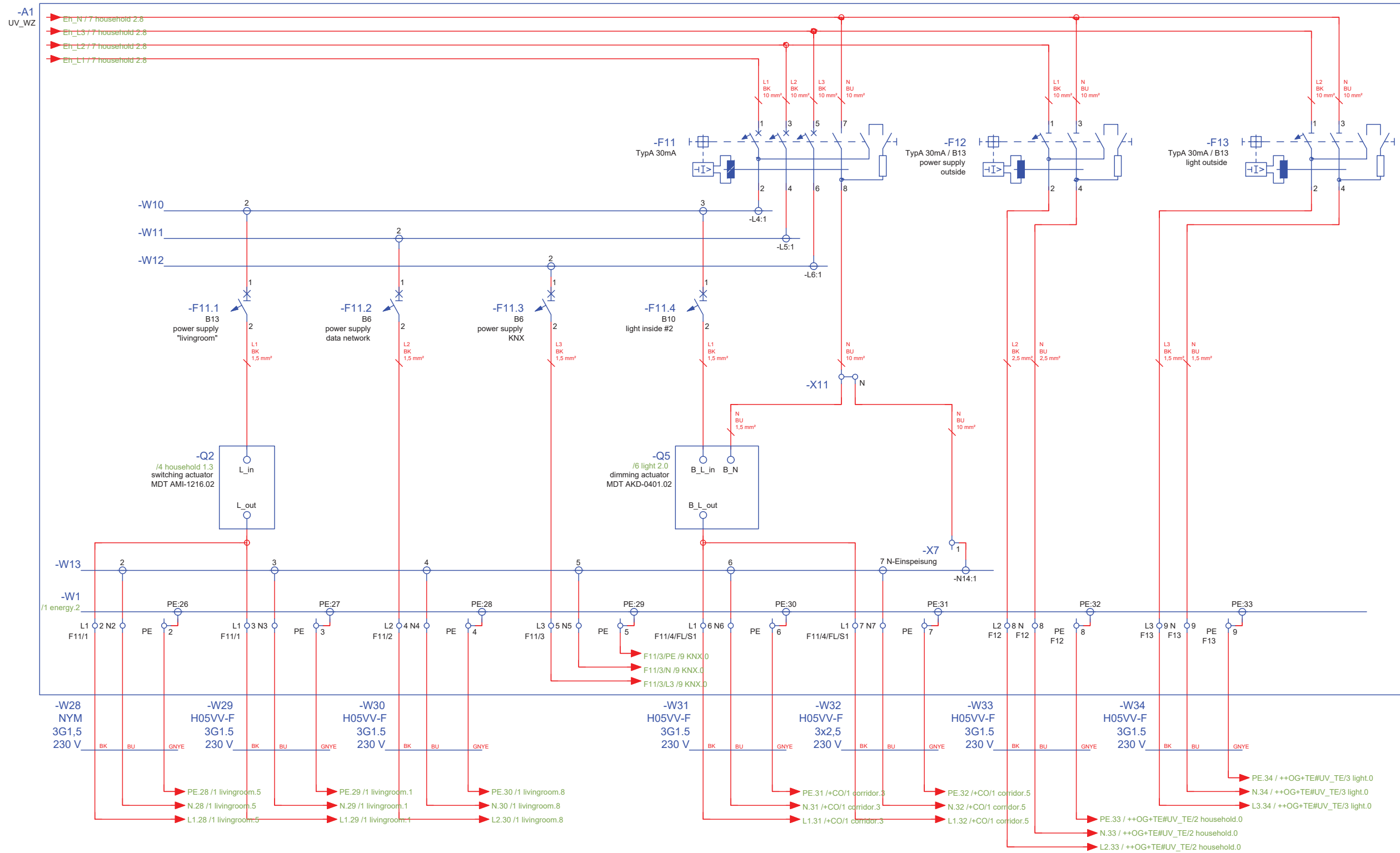
EL-6018

livingroom - distribution
++EG+LI#UV_LI/household 3



General
Architecture
Interiors
Structural
Plumbing
Solar Water Heating
Mechanical
Electrical
Photovoltaic System
Teleco. & Build. Aut. System
Instrumentation Drawings
Site Operations
Fire Protection
Health & Safety
Public Tour

GE
AR
IN
ST
PL
SW
ME
EL
PV
BAS
ID
SO
FP
HS
PT



Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
AC Circuit layout

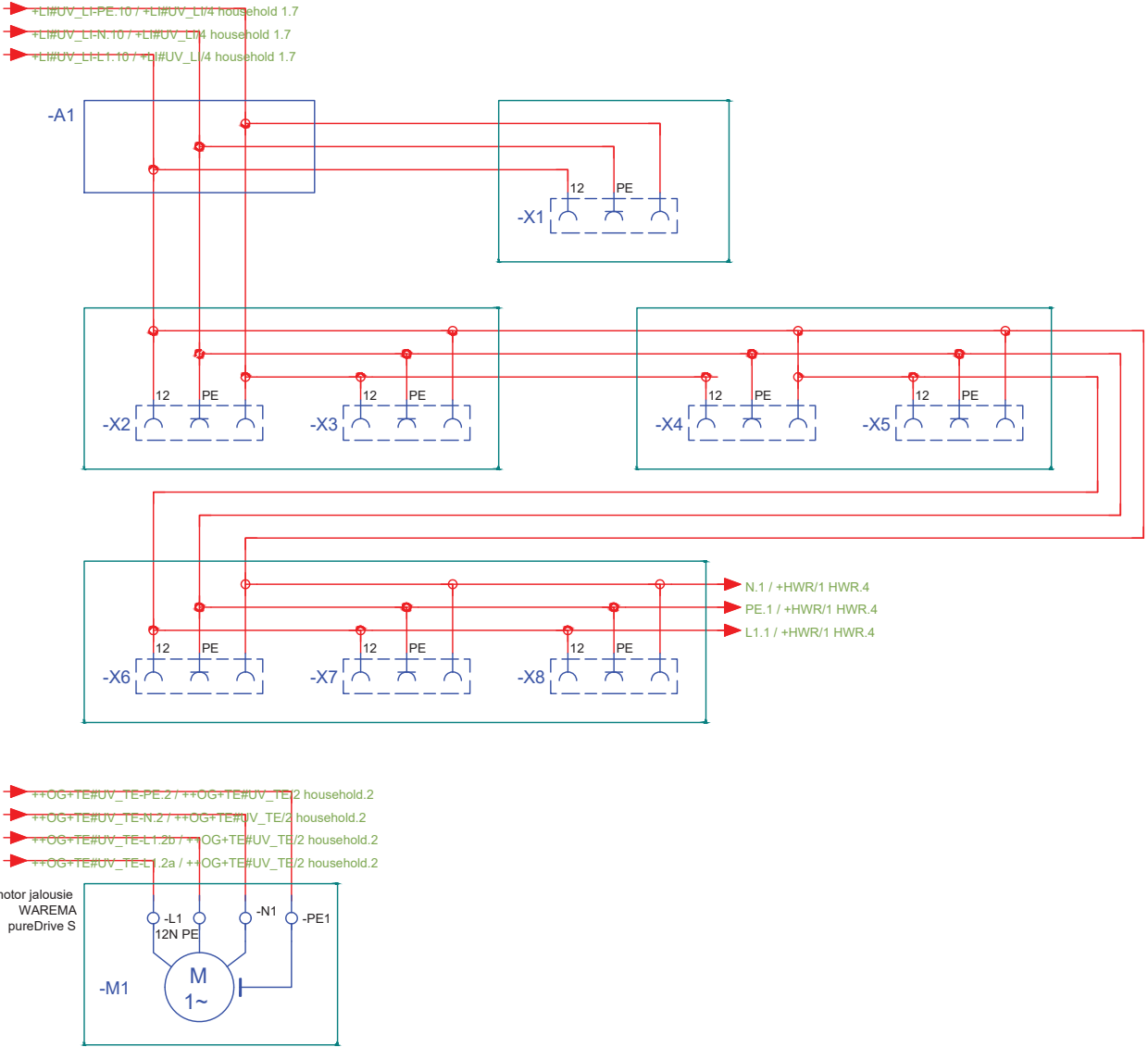
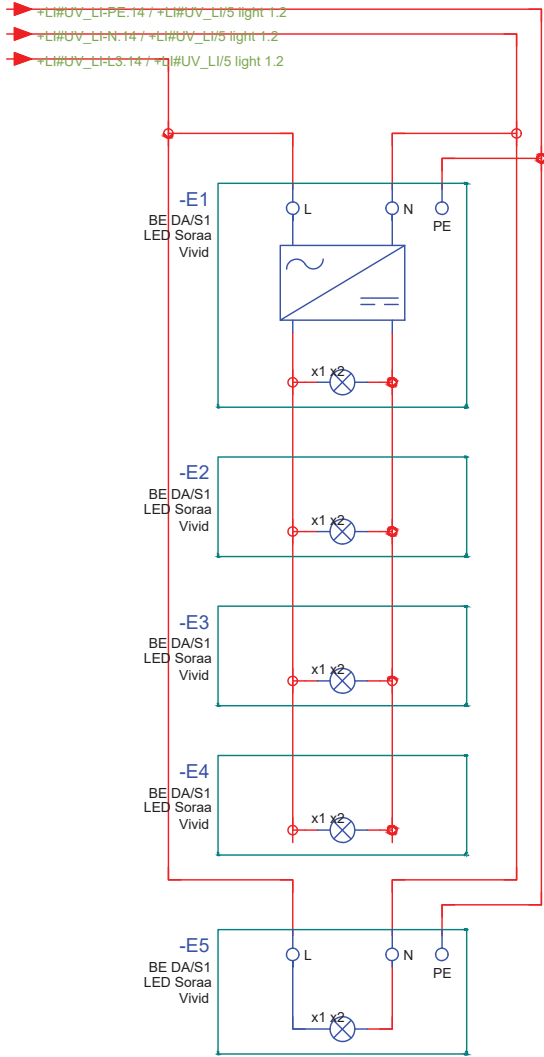
EL-6019

bedroom
++EG+BE

GIRA Enocean Funk Wandsender 1f

-B1
temp. / rel. hum.
Eltako
FMS55SB

smoke detector
Gira dual q



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale
n.t.s. (A3 420x297)

Phase
D#6

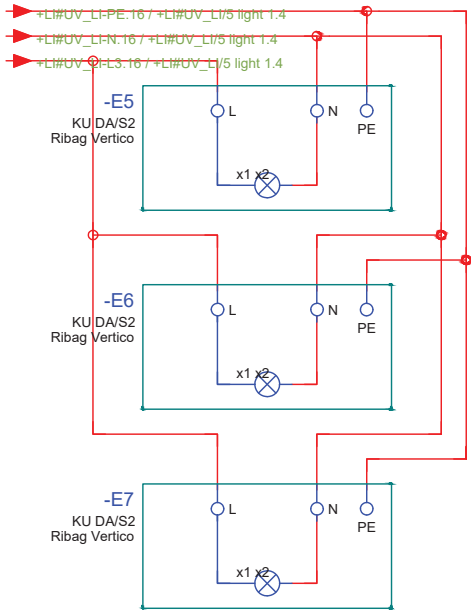
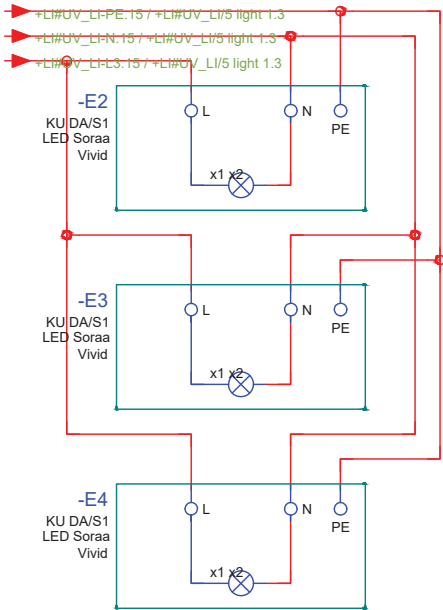
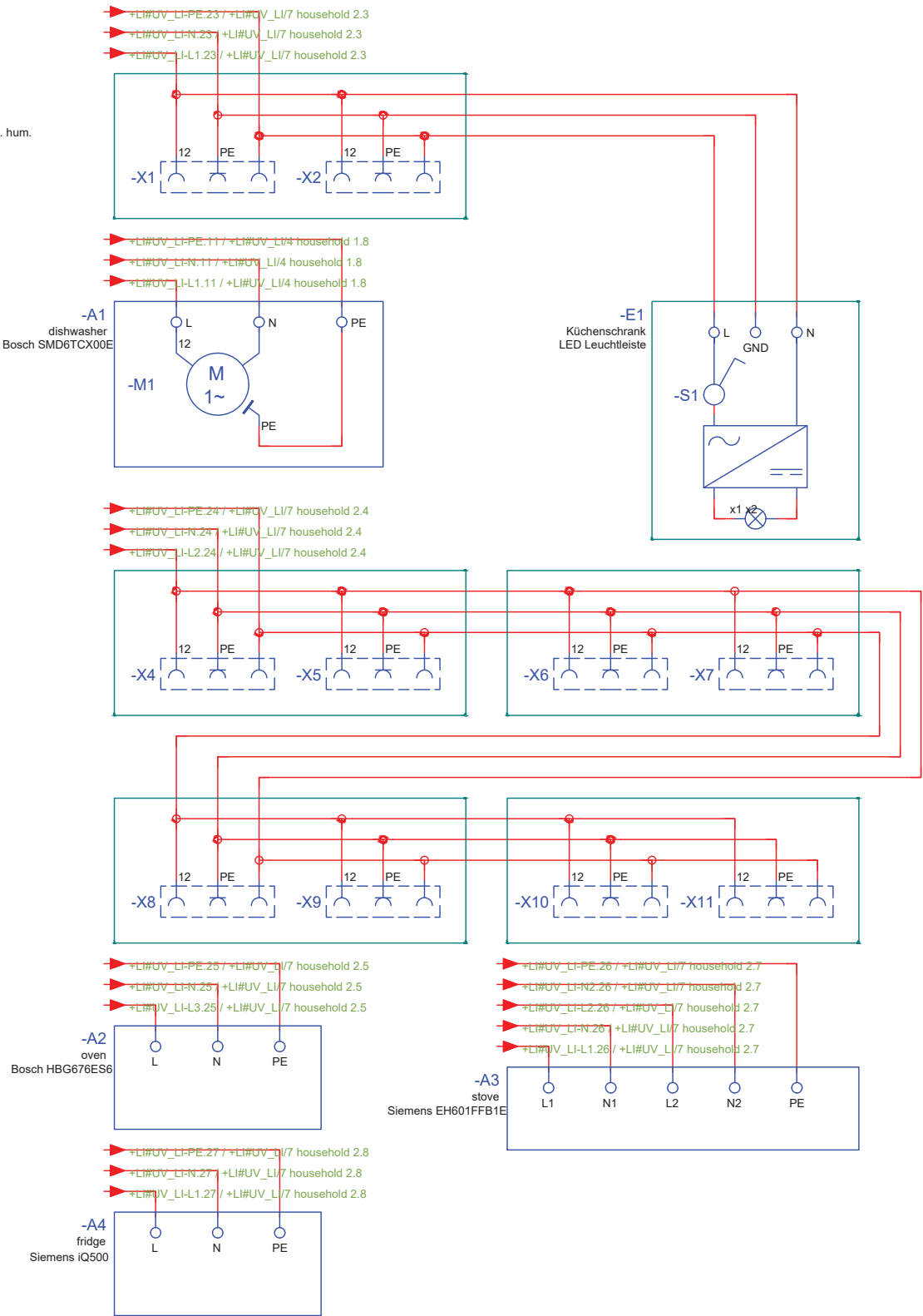
Drawing Content-HDU
AC Circuit layout

EL-6020

kitchen
++EG+KI



-B1
temp. / rel. hum.
Eltako
FMS55SB



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

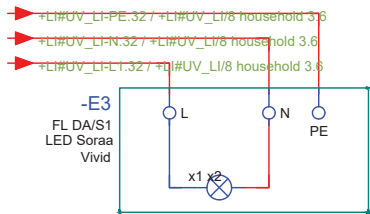
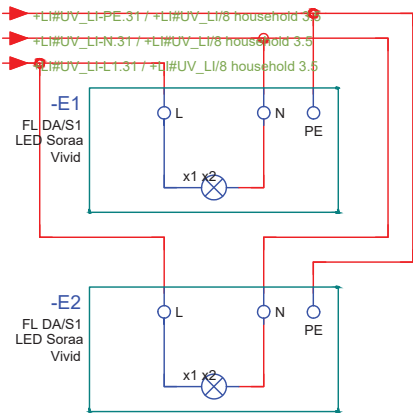
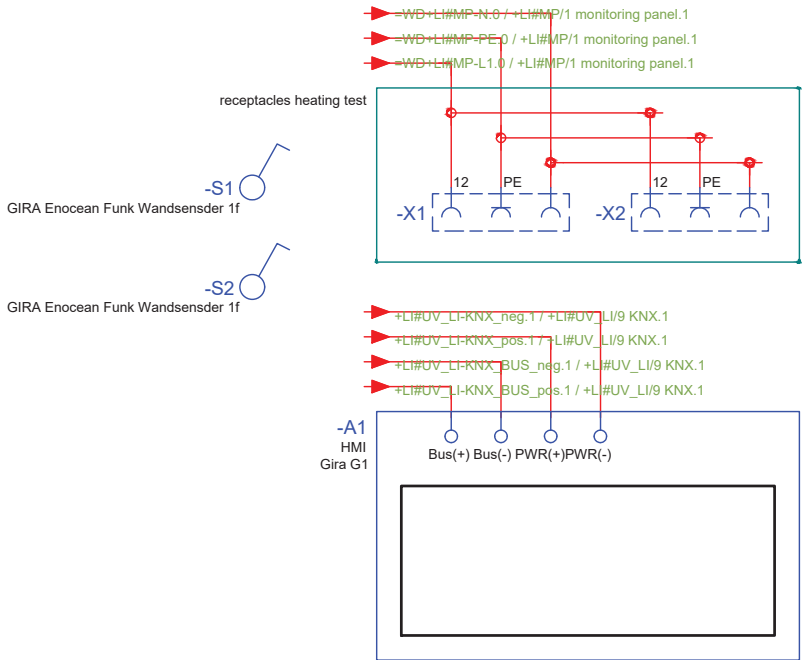
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
AC Circuit layout

EL-6021

corridor
++EG+CO



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

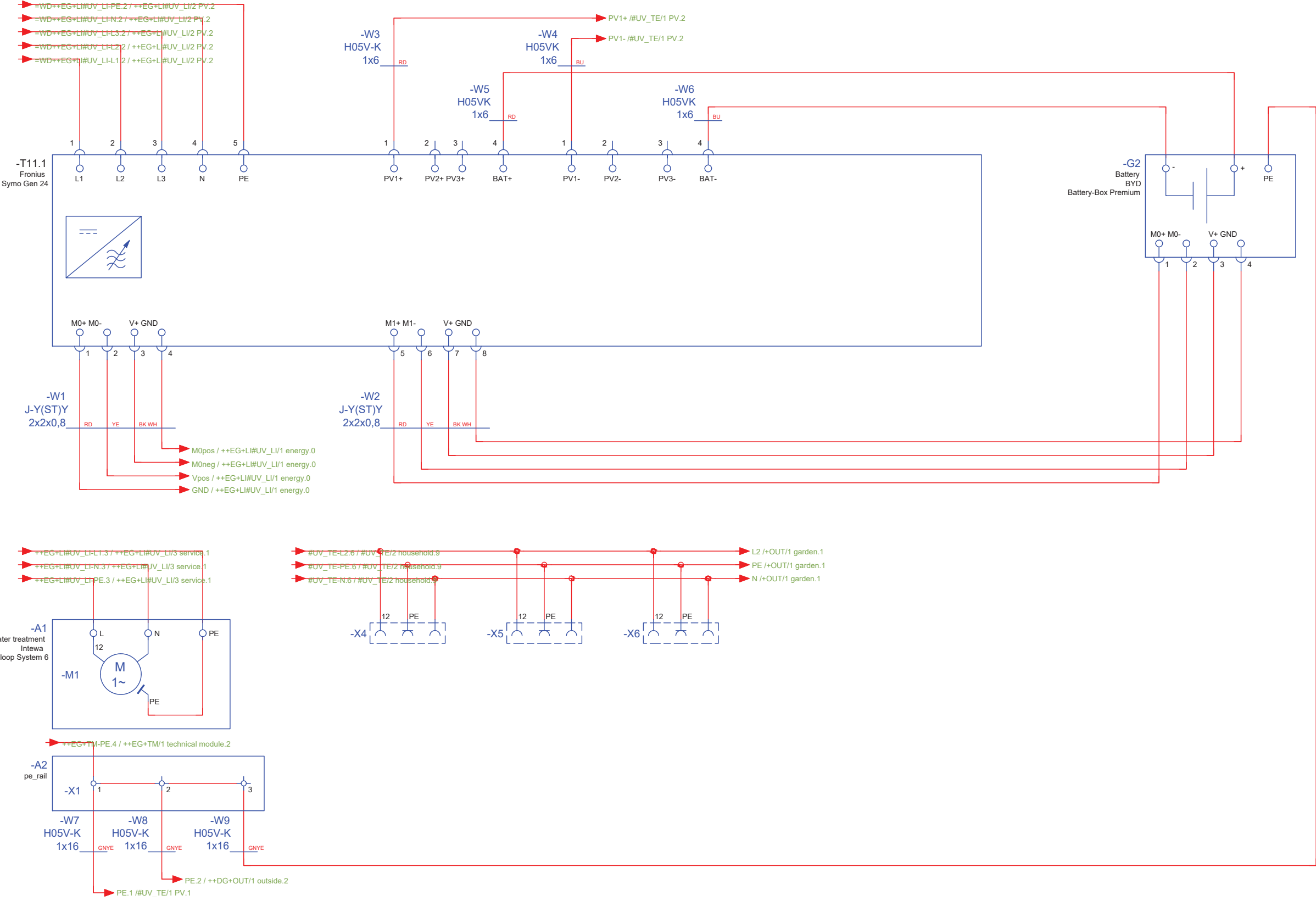
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
AC Circuit layout

EL-6022

technical room
++OG+TE



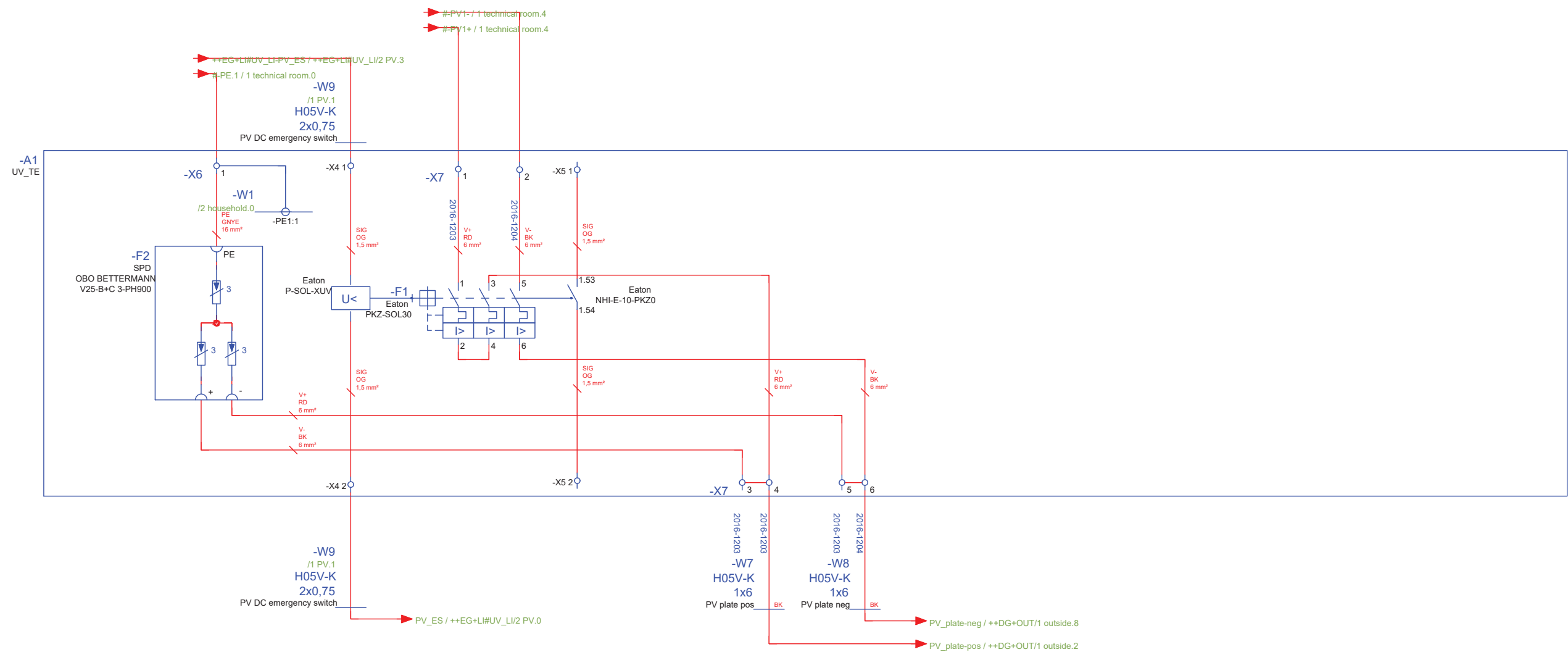
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale **n.t.s.** (A3 420x297) Phase **D#6**

Drawing Content-HDU
AC Circuit layout

EL-6023

technical room - distribution
++OG+TE#UV_TE/PV



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale
n.t.s. (A3 420x297)

Phase
D#6

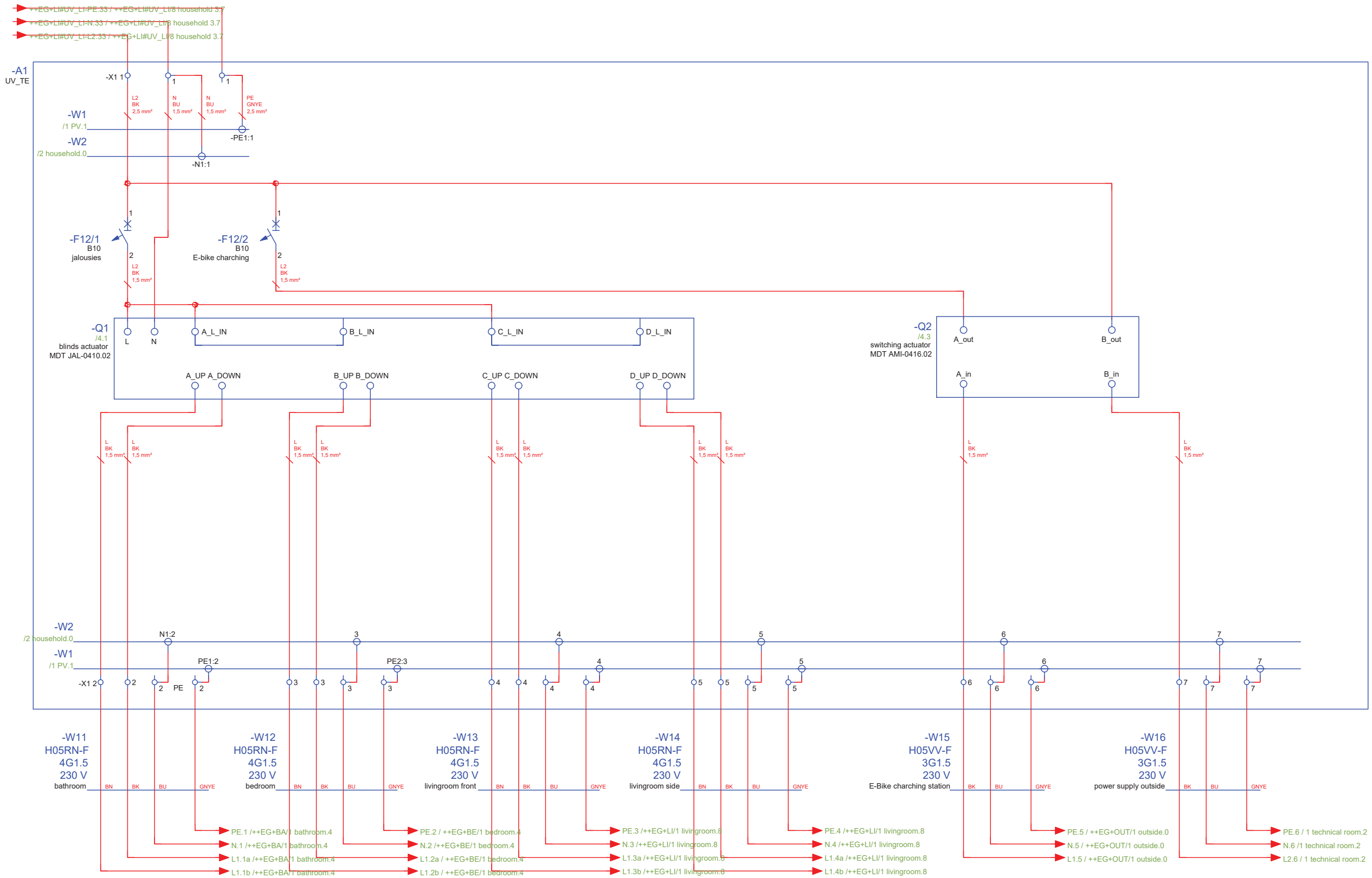
Drawing Content-HDU
AC Circuit layout

EL-6024

technical room - distribution
++OG+TE#UV_TE/household



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



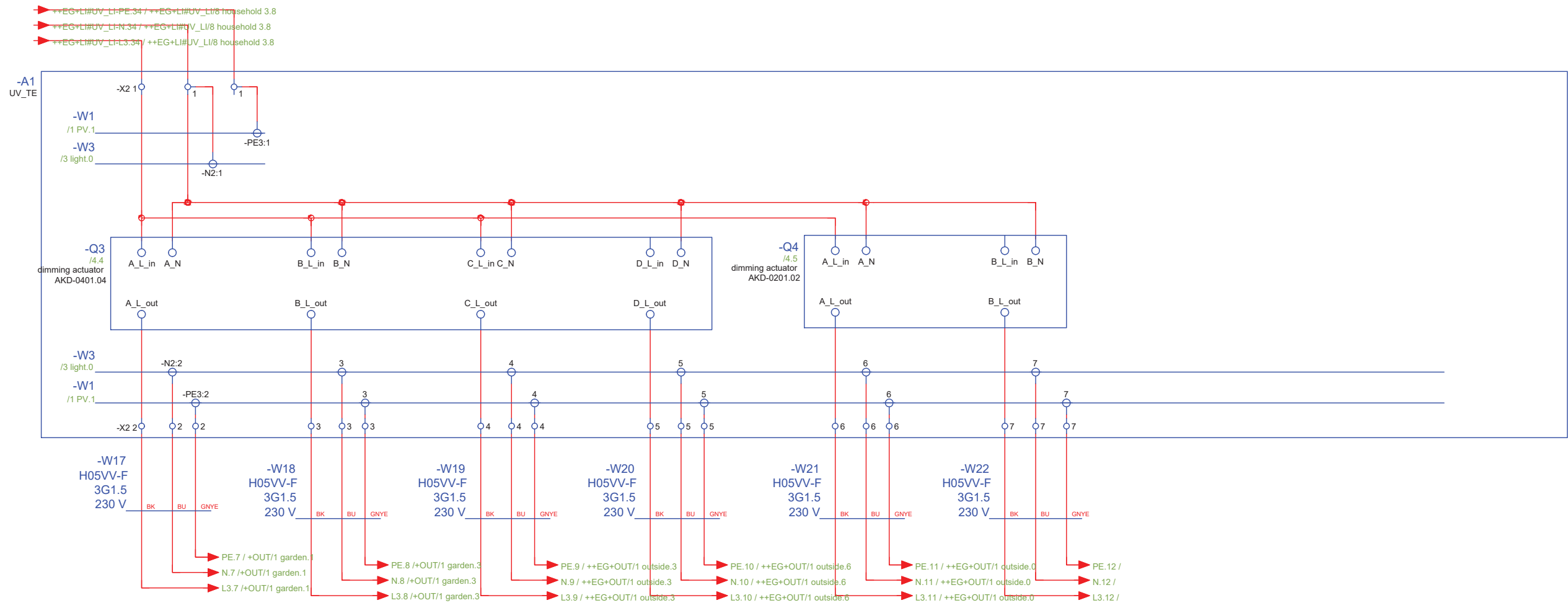
Scale
n.t.s. (A3 420x297)

Phase
D#6

AC Circuit layout

EL-6025

technical room - distribution
++OG+TE#UV_TE/light



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

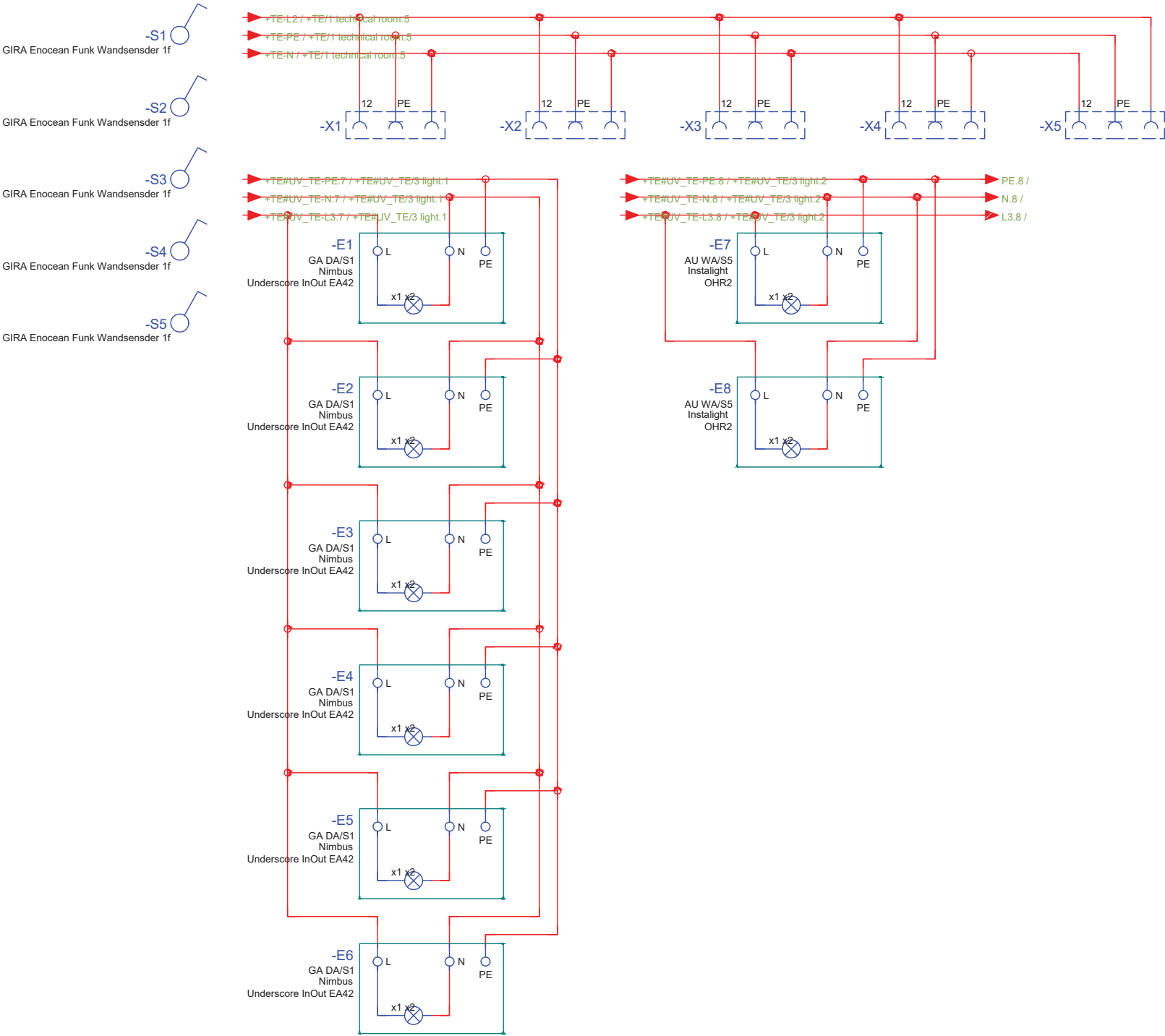
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
AC Circuit layout

EL-6026

garden
++OG+OUT



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale
n.t.s. (A3 420x297)

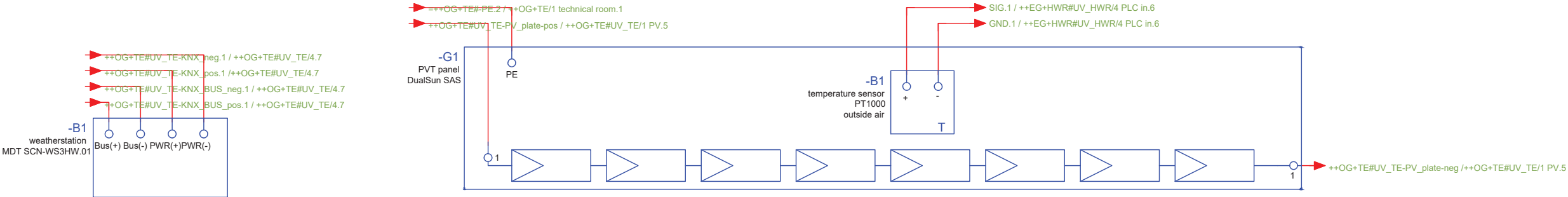
Phase
D#6

Drawing Content-HDU
AC Circuit layout

EL-6027

roof

++DG+OUT



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale

n.t.s. (A3 420x297)

Phase

D#6

Drawing Content-HDU

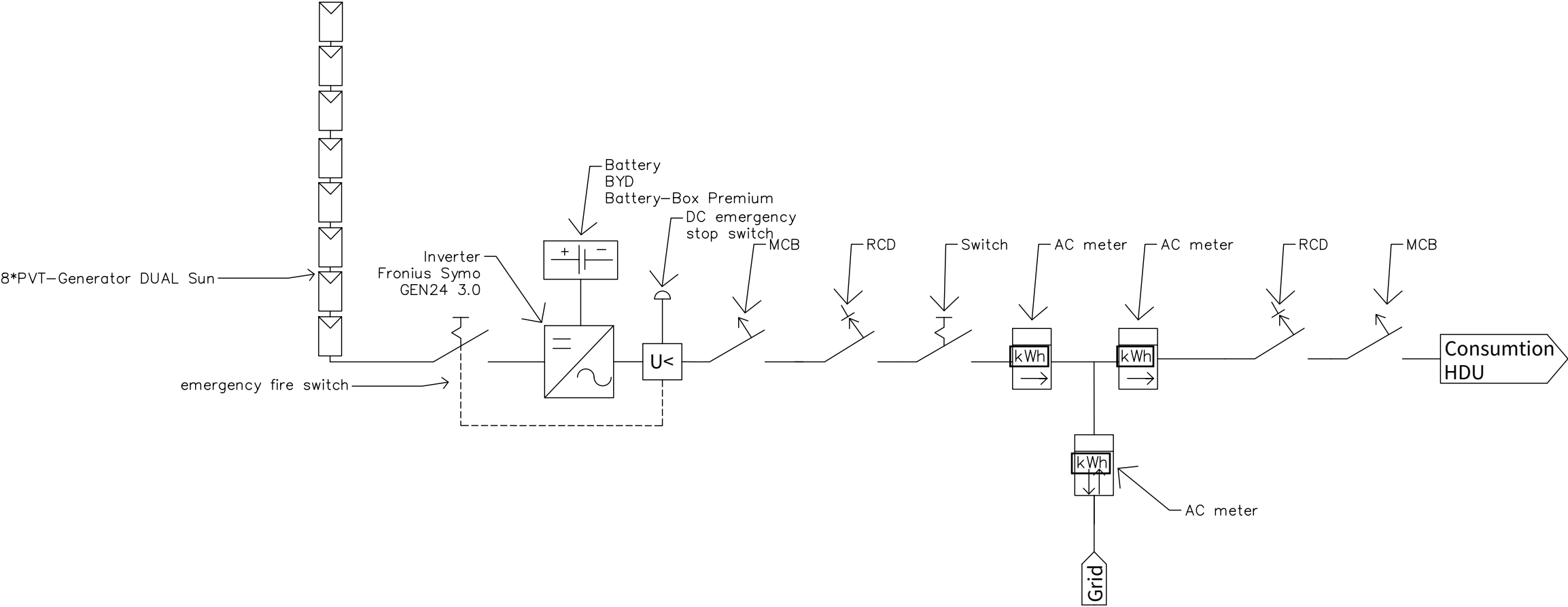
AC Circuit layout

EL-6028

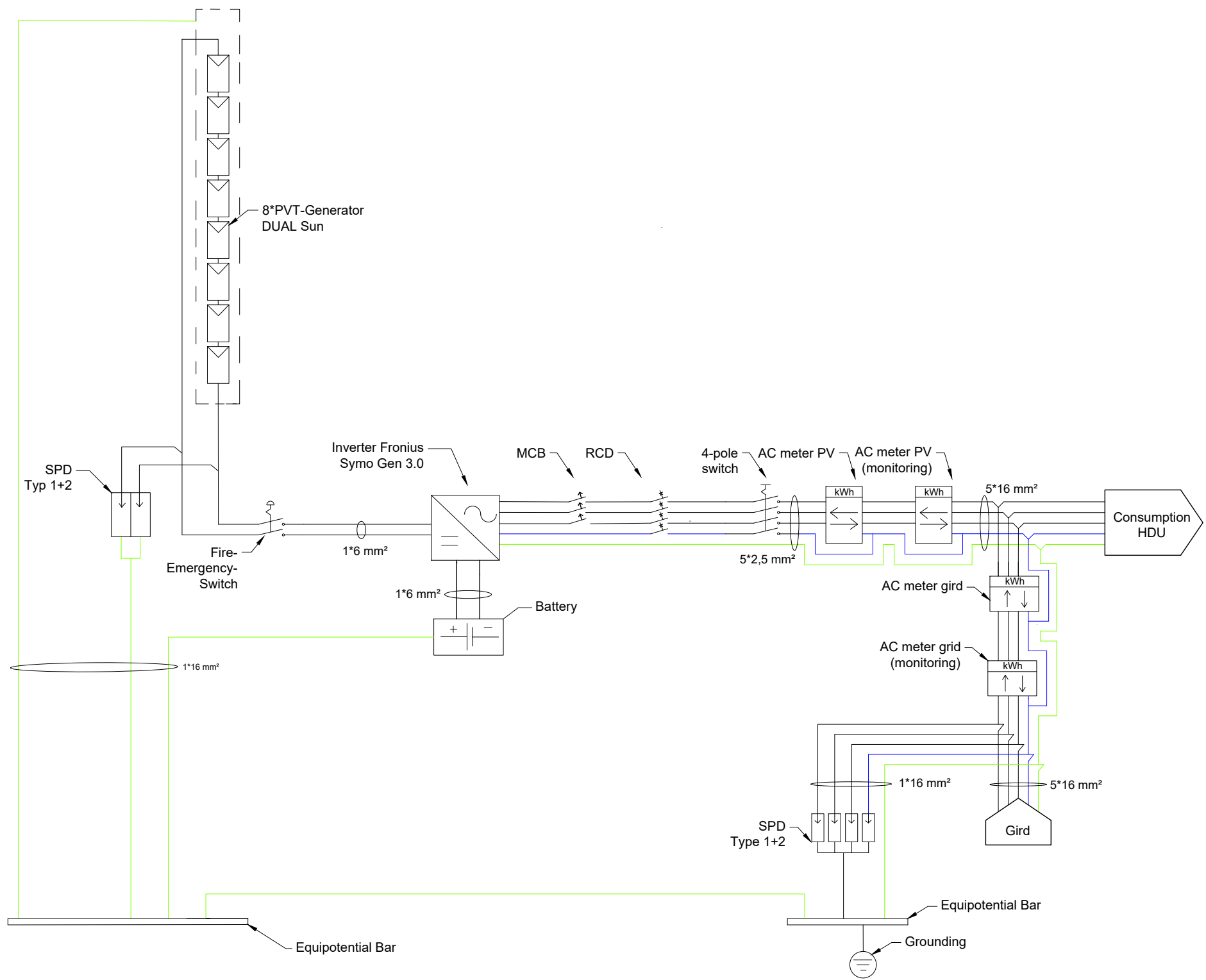
A blurred black and white photograph of a group of people, likely students or workers, gathered around a table. One person in the foreground is using a power drill on a project. The background shows other individuals looking on. A green rectangular text box is positioned in the upper left corner of the image.

Photovoltaik System (PV)

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

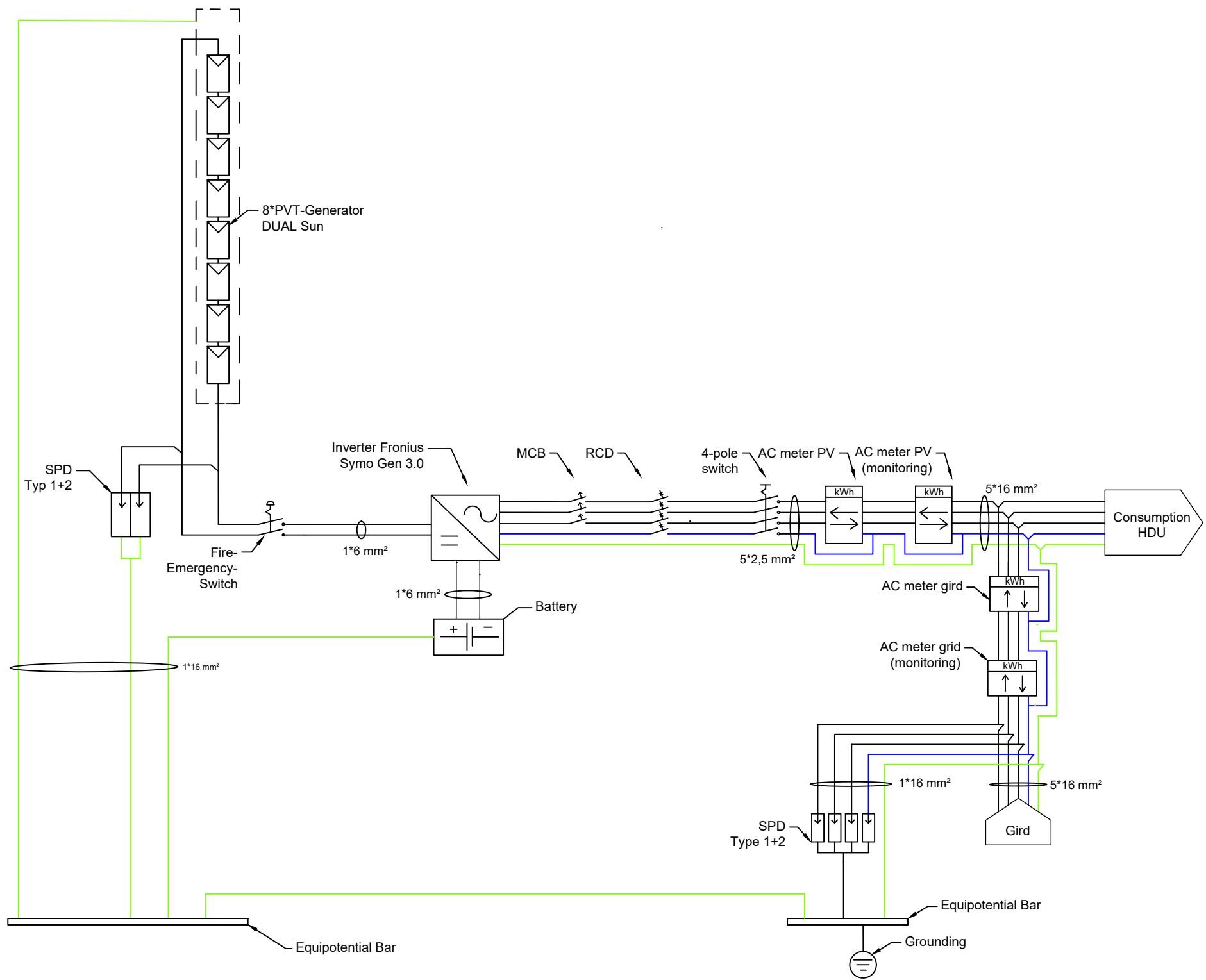


Scale **n.t.s.** (A3 420x297) Phase **D#6**

Drawing Content-HDU
**Photovoltaic system
general**

PV-1001

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

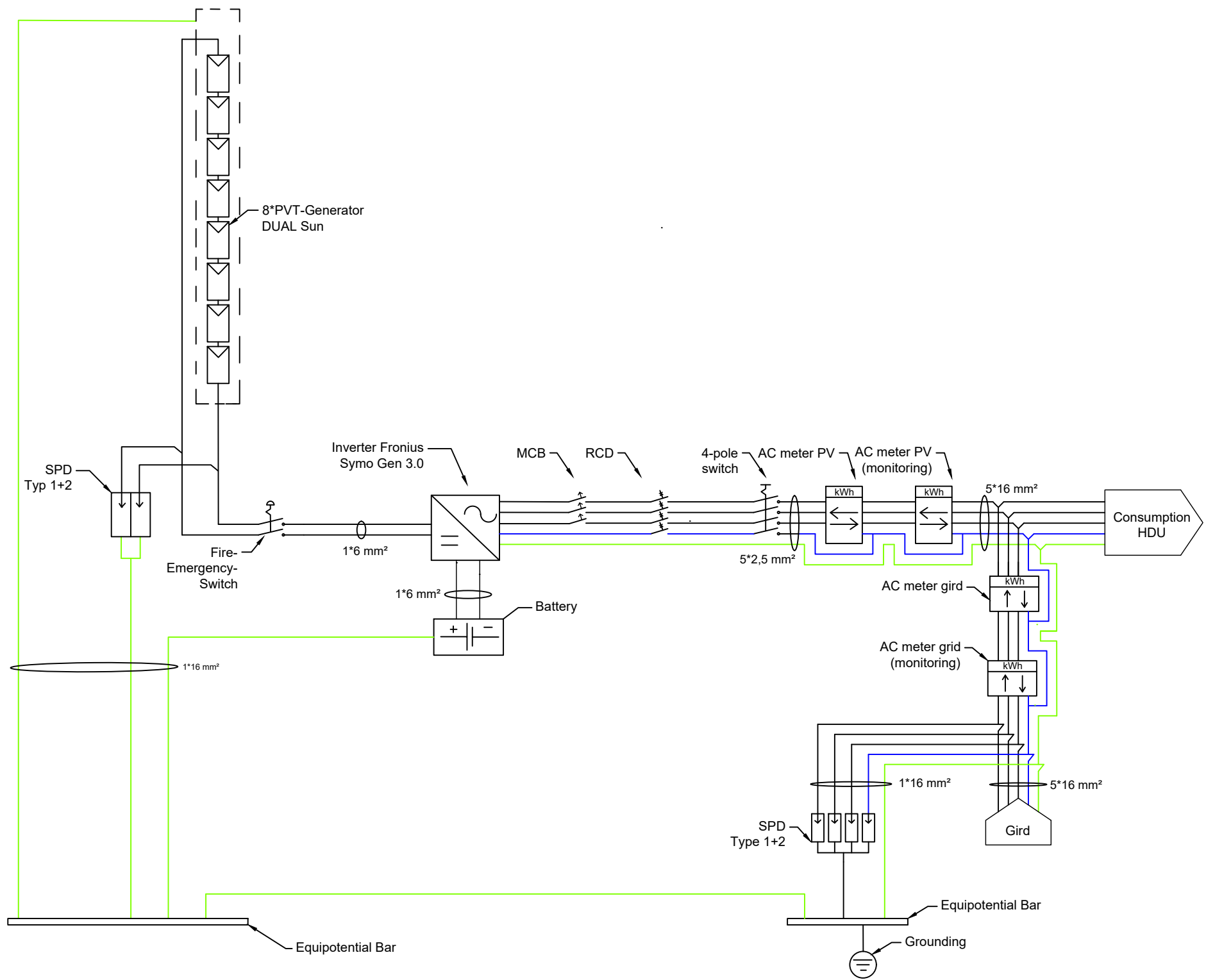


Scale **n.t.s.** (A3 420x297) Phase **D#6**

Drawing Content-HDU
Photovoltaic system
DC circuits

PV-2001

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

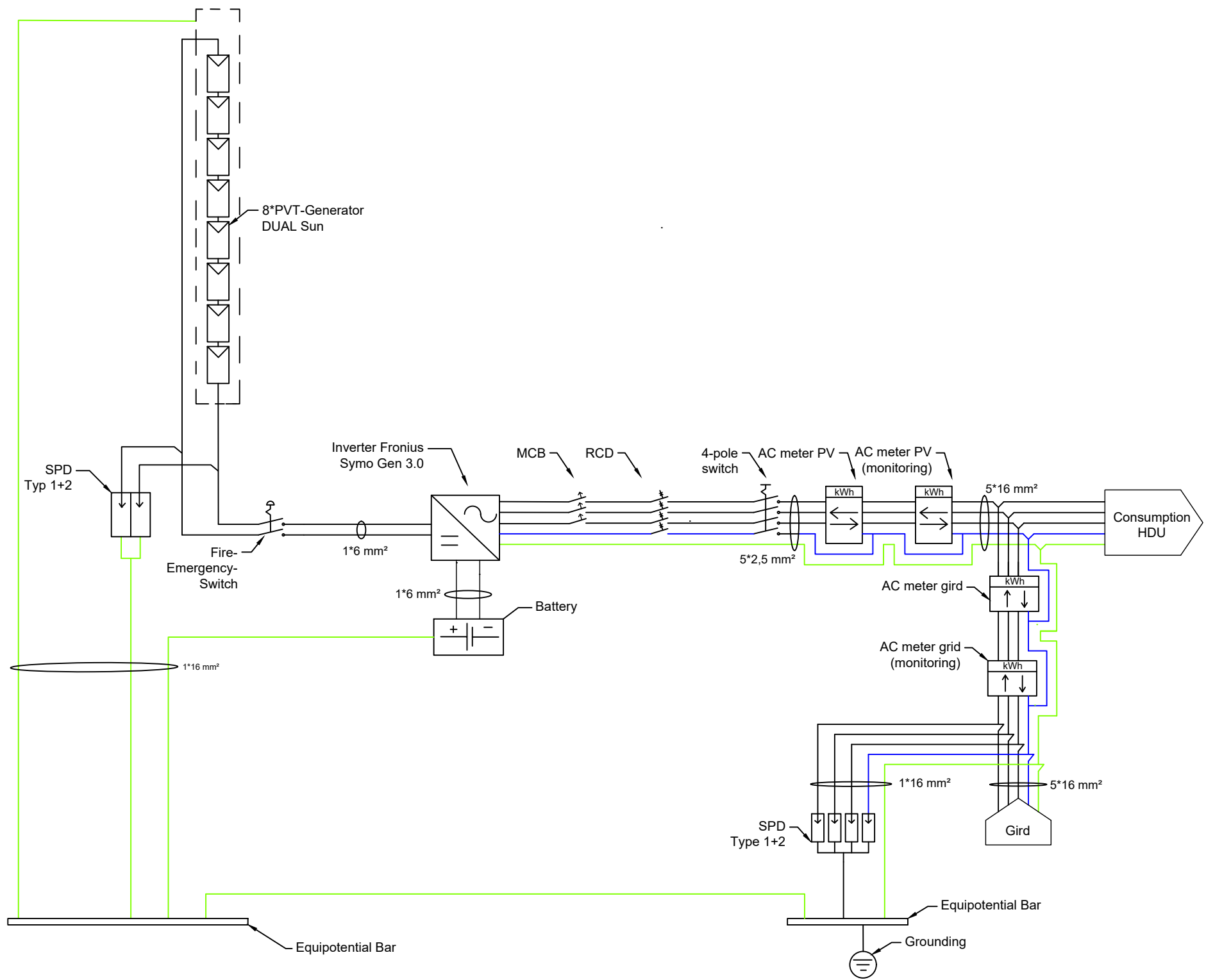


Scale **n.t.s.** (A3 420x297) Phase **D#6**

Drawing Content-HDU
Photovoltaic system
AC circuits

PV-3001

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



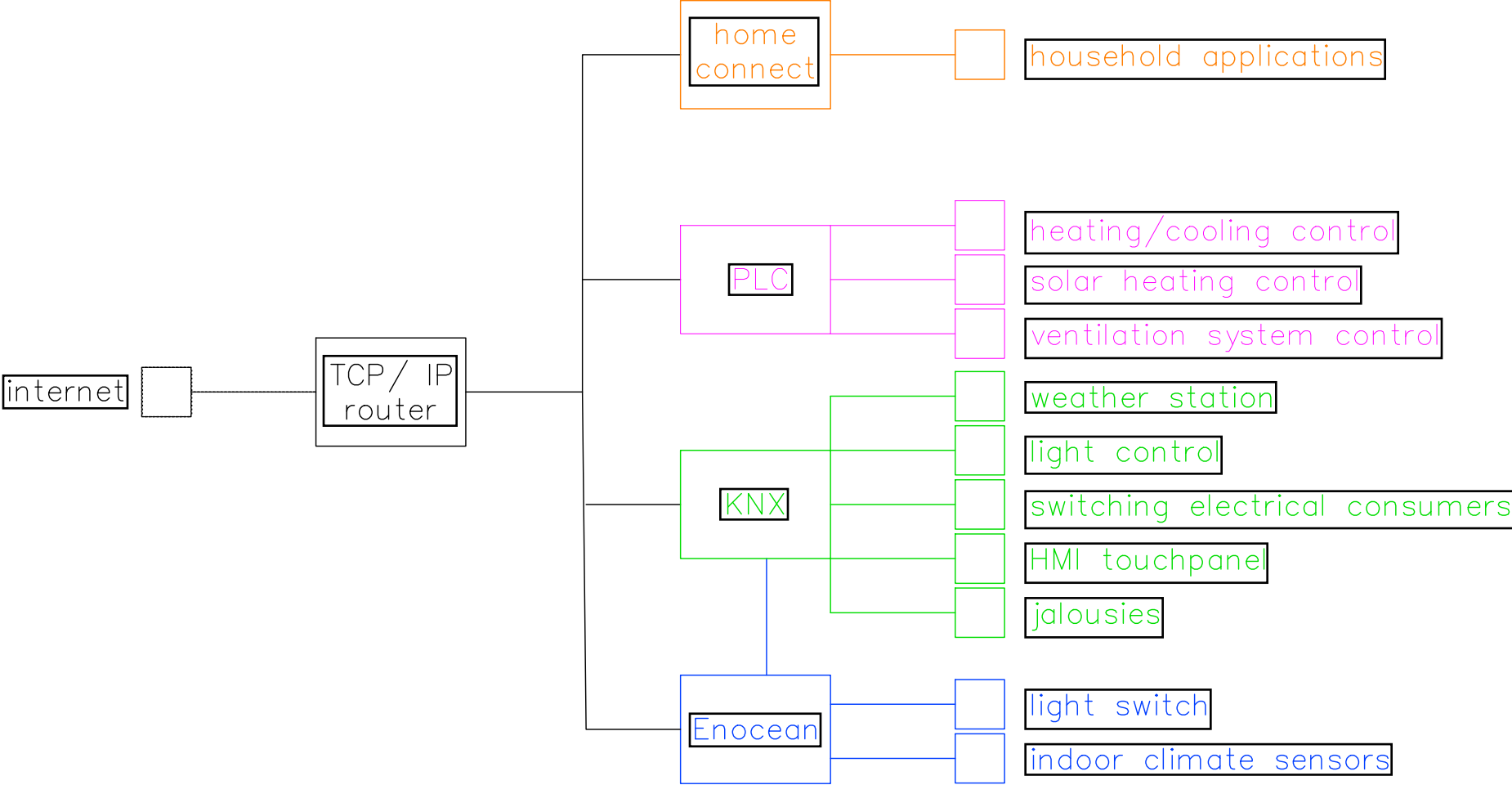
Scale **n.t.s.** (A3 420x297) Phase **D#6**

Drawing Content-HDU
**Photovoltaic system
grounding system**

PV-4001



Telecommunications and Building Management System (BMS)



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale

n.t.s. (A3 420x297)

Phase

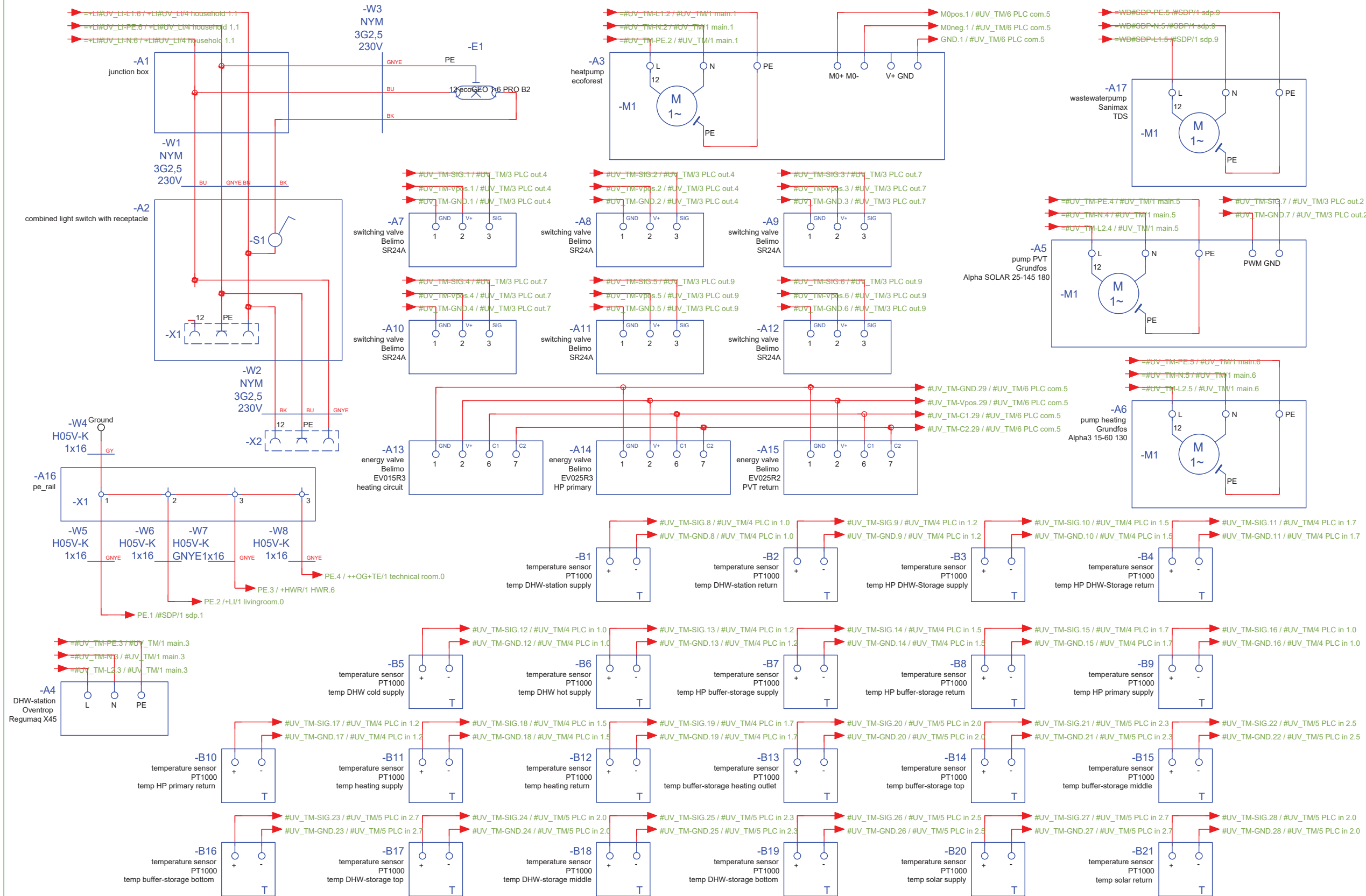
D#6

Drawing Content-HDU

Conceptual Drawings

BMS-0001

technical modul
++EG+TM



General
Architecture
Interiors
Structural
Plumbing
Solar Water Heating
Mechanical
Electrical
Photovoltaic System
Teleco. & Build. Aut. System
Instrumentation Drawings
Site Operations
Fire Protection
Health & Safety
Public Tour

GE
AR
IN
ST
PL
SW
ME
EL
PV
BAS
ID
SO
FP
HS
PT

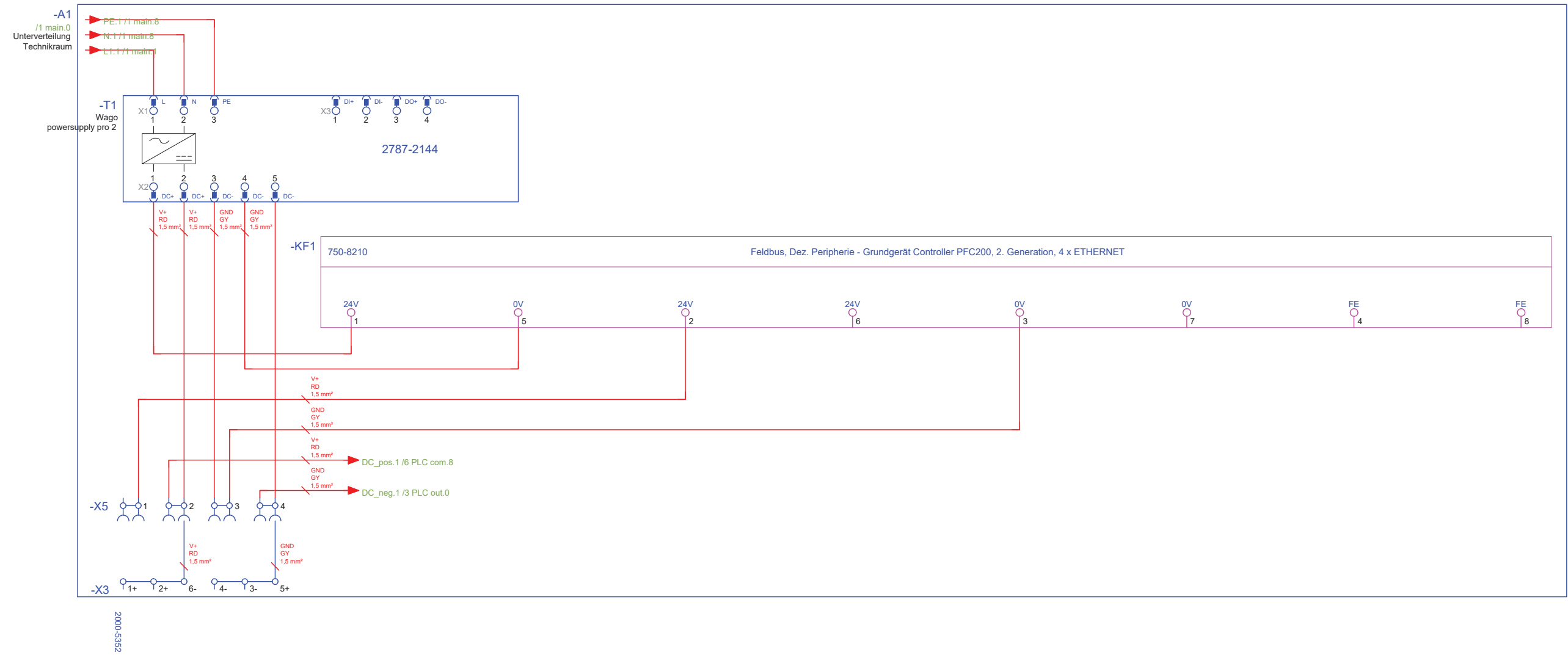
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
Wiring Plan

BMS-1001

distriubition TM
++EG+TM#UV_TM/PLC_main



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

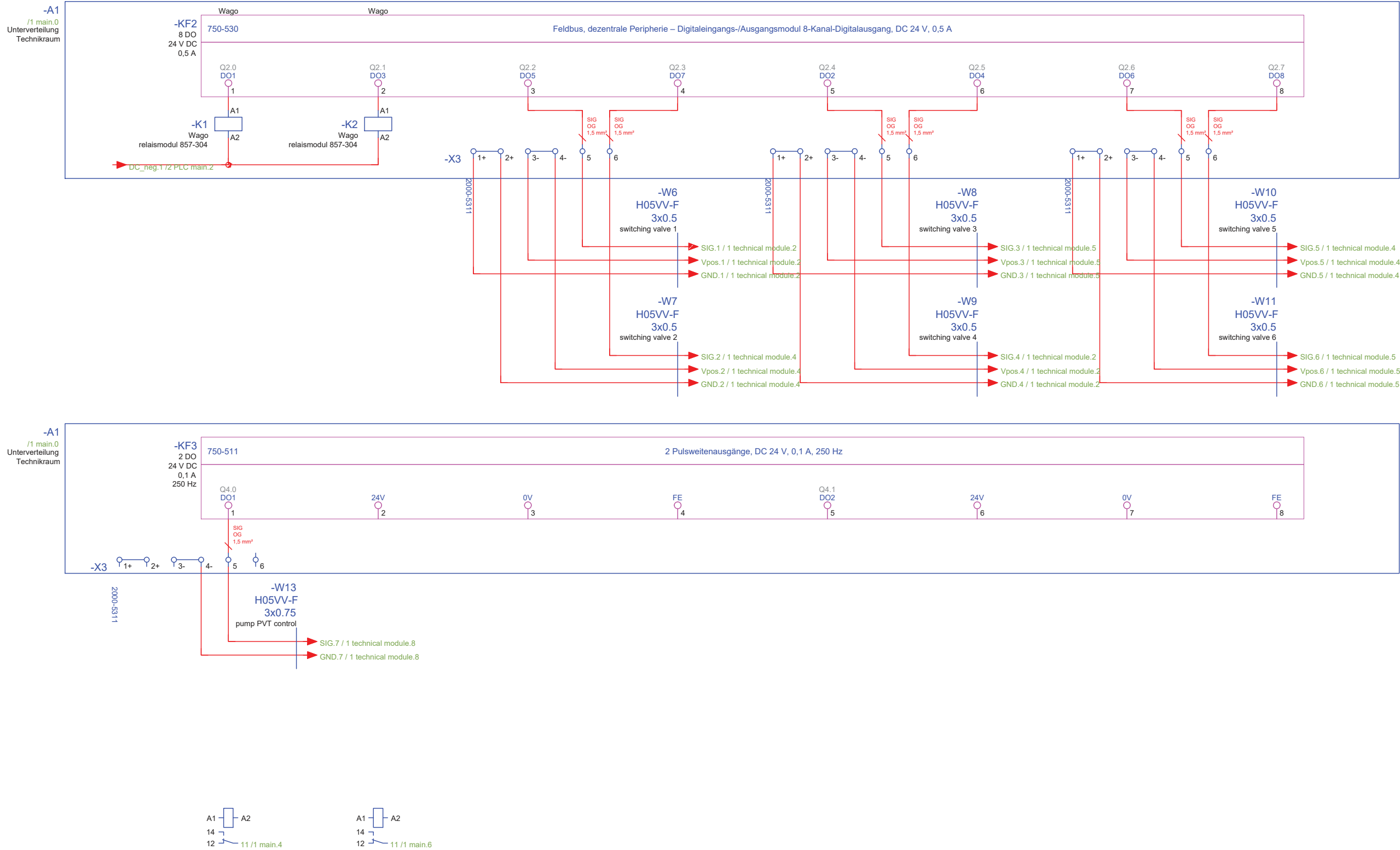
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
Wiring Plan

BMS-1002

technical modul - distriubition TM
++OG+TM#UV_TM/PLC_OUT



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

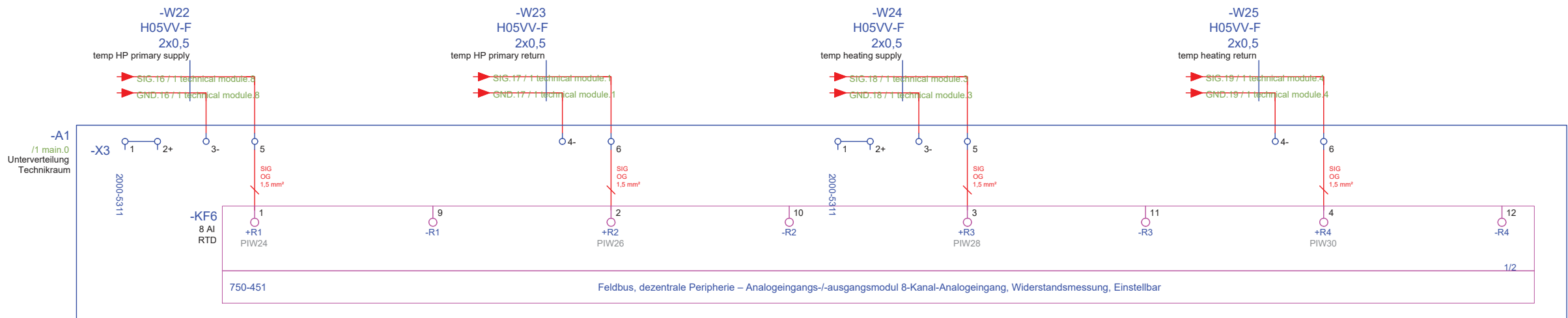
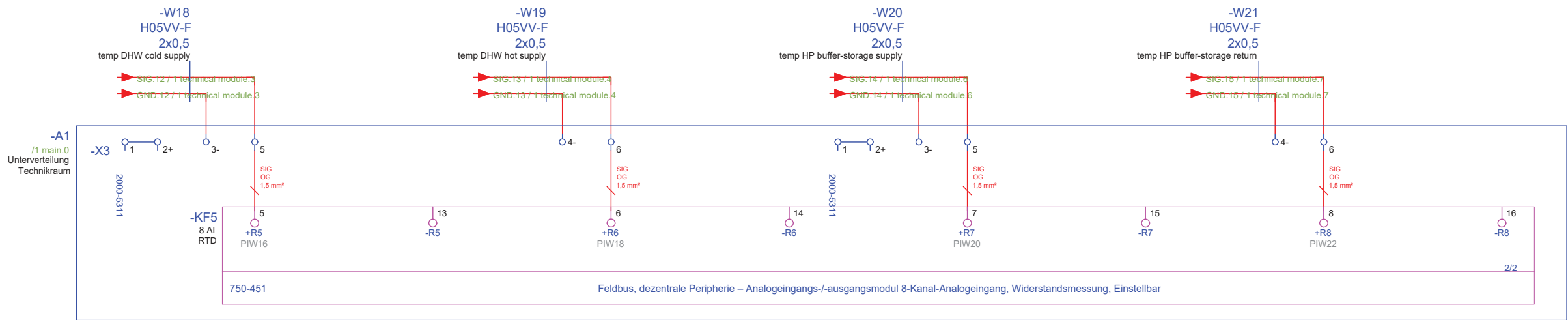
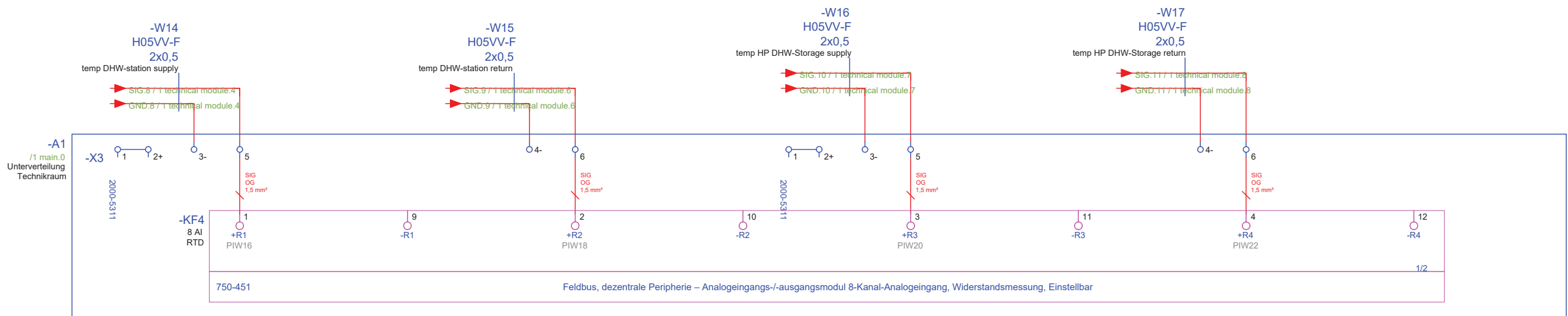
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
Wiring Plan

BMS-1003

technical modul - distriubition TM
++OG+TM#UV_TM/PLC_IN 1



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

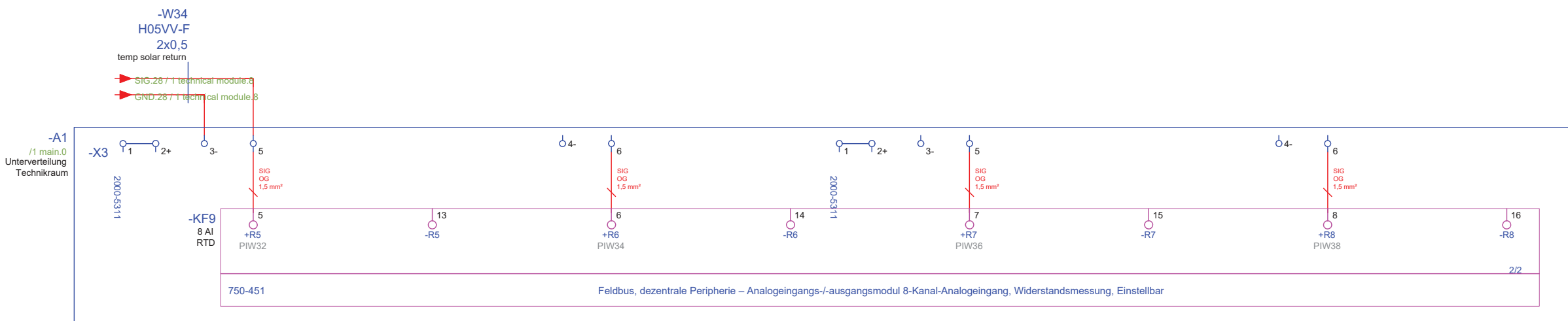
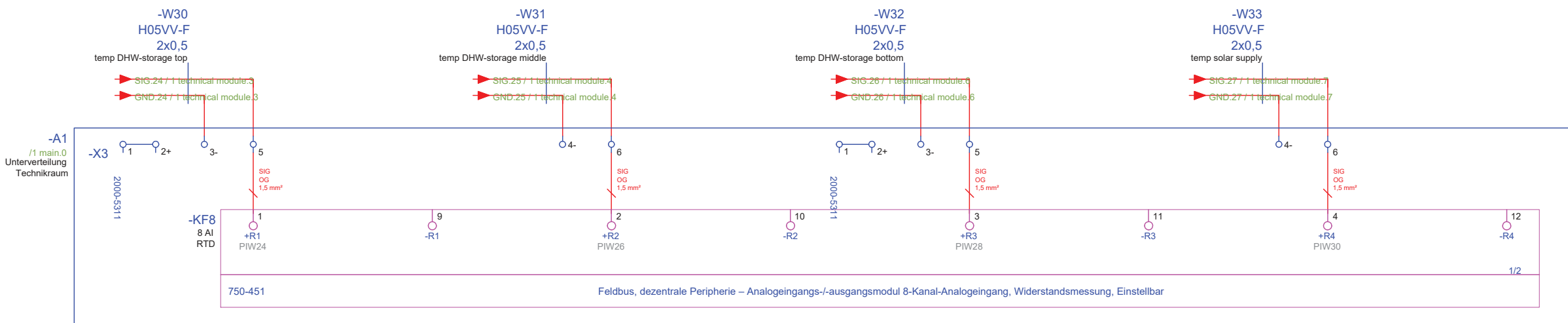
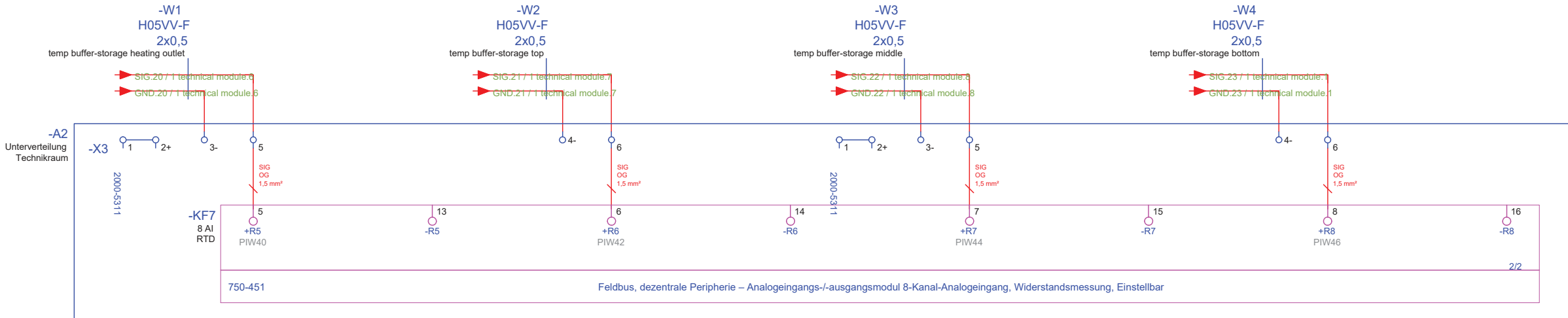
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
Wiring Plan

BMS-1004

technical modul - distriubition TM
++OG+TM#UV_TM/PLC_IN 2



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

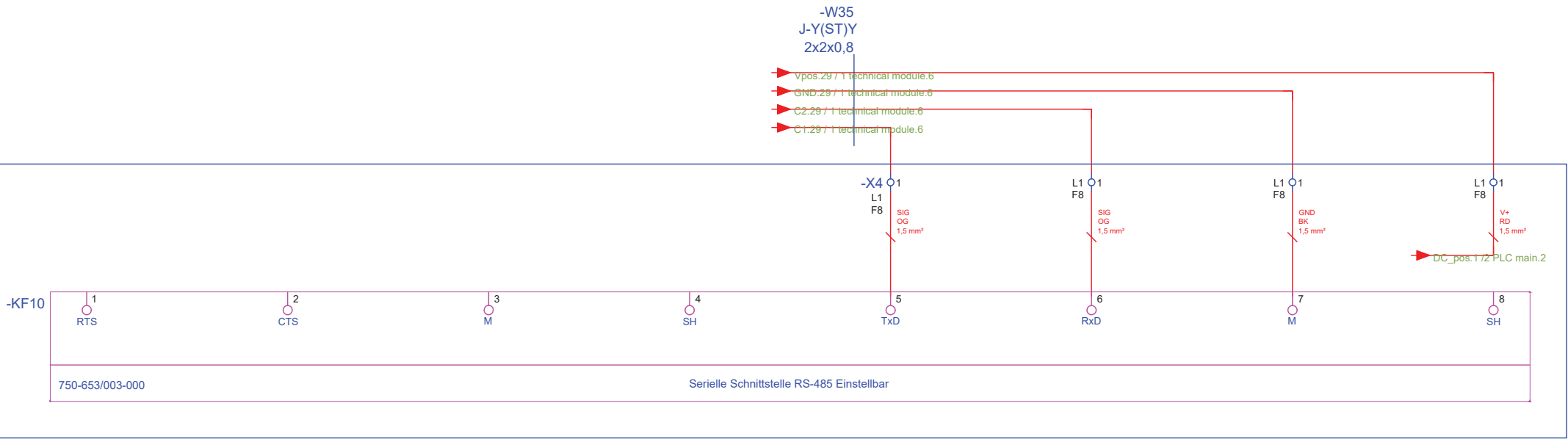
Scale **n.t.s.** (A3 420x297) Phase **D#6**

Drawing Content-HDU
Wiring Plan

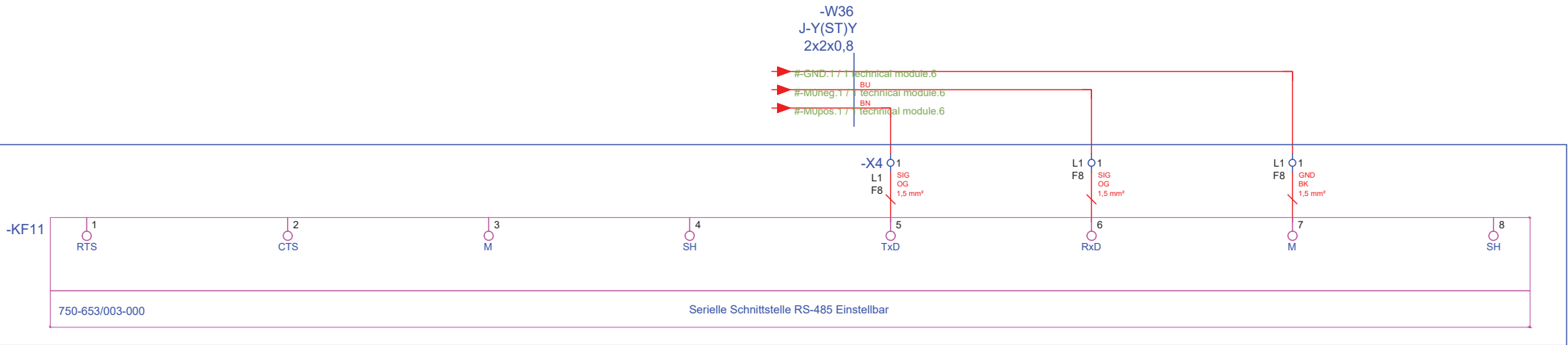
BMS-1005

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

-A1
/1 main.0
Unterverteilung
Technikraum



-A1
/1 main.0
Unterverteilung
Technikraum



Scale
n.t.s. (A3 420x297)

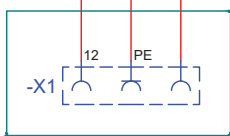
Phase
D#6

Drawing Content-HDU
Wiring Plan

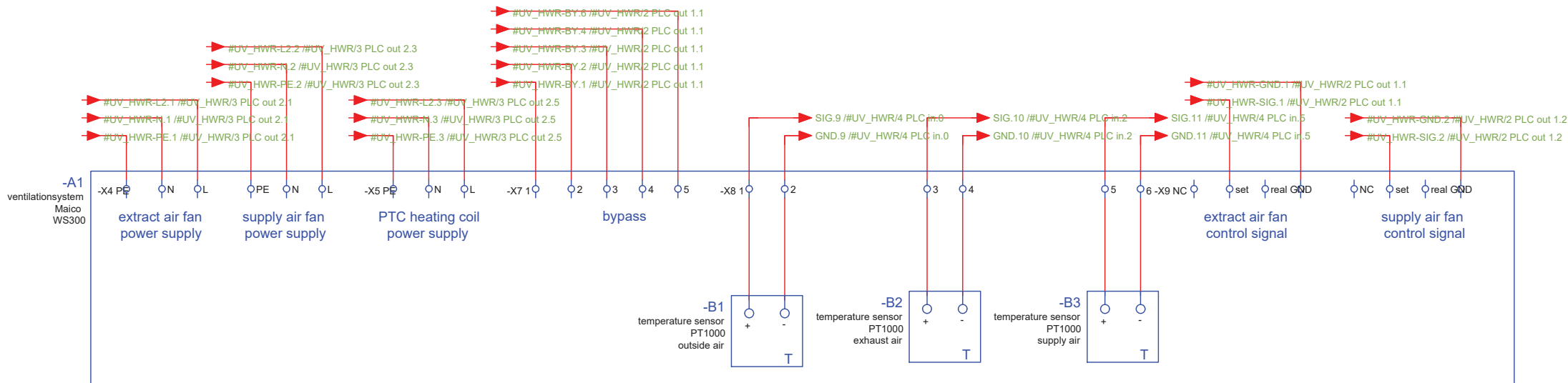
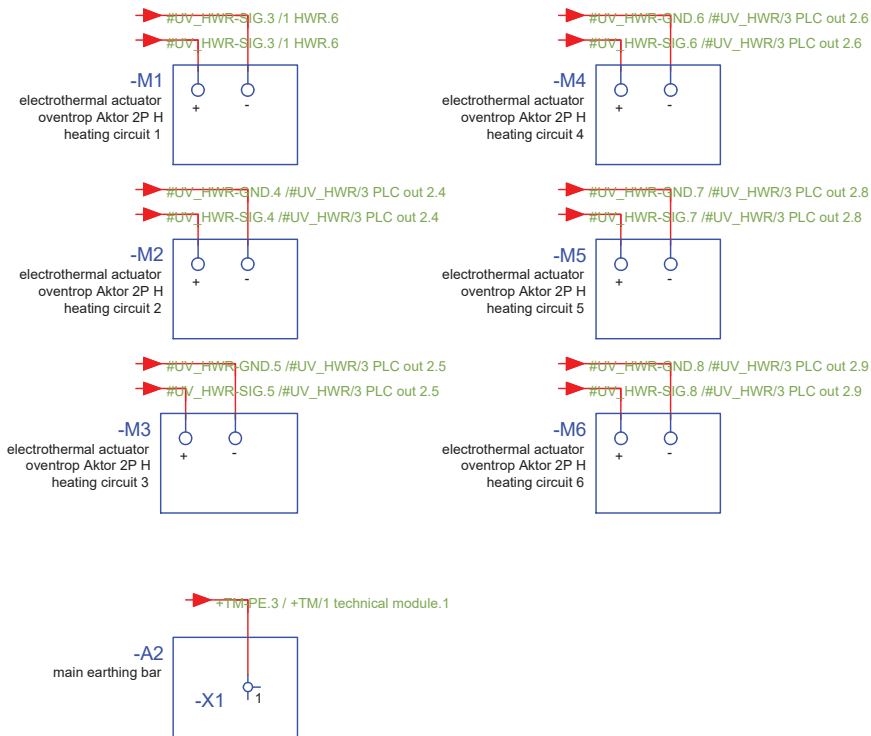
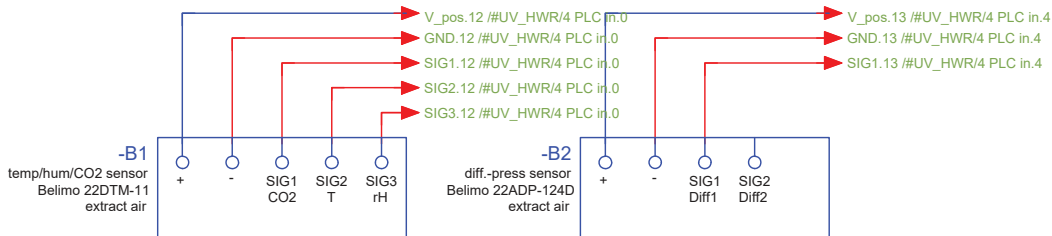
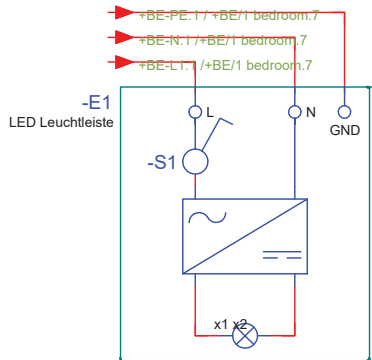
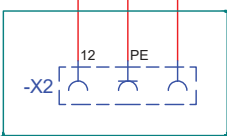
BMS-1006

utility room
++EG+HWR

+L#UV_L1-PE.8 / +L#UV_L1/4 household 1.5
+L#UV_L1-N.8 / +L#UV_L1/4 household 1.5
+L#UV_L1-L2.8 / +L#UV_L1/4 household 1.5



+L#UV_L1-PE.9 / +L#UV_L1/4 household 1.6
+L#UV_L1-N.9 / +L#UV_L1/4 household 1.6
+L#UV_L1-L3.9 / +L#UV_L1/4 household 1.6



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale
n.t.s. (A3 420x297)

Phase
D#6

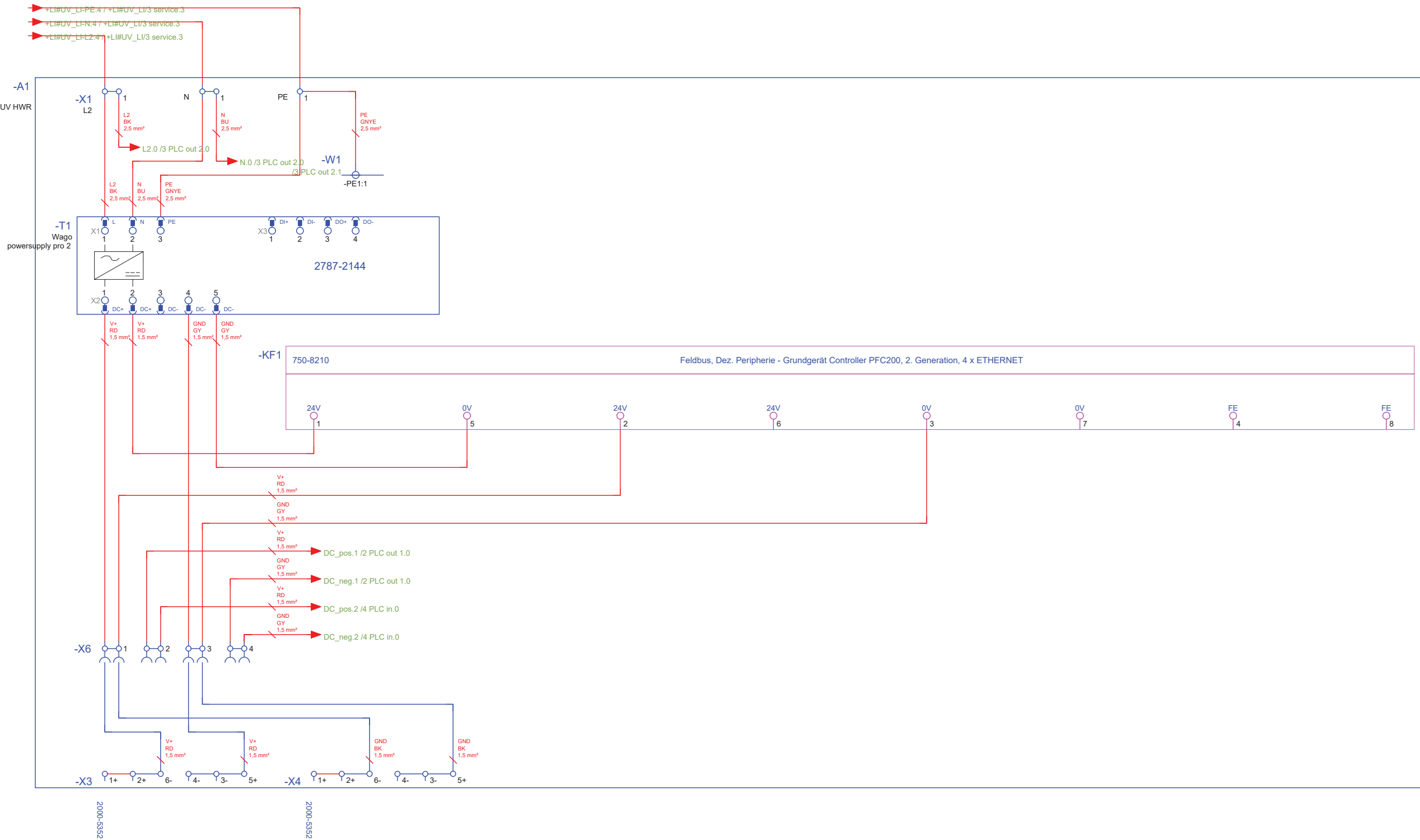
Drawing Content-HDU
Wiring Plan

BMS-1007

utility room
++EG+HWR#UV_HWR/PLC_main



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



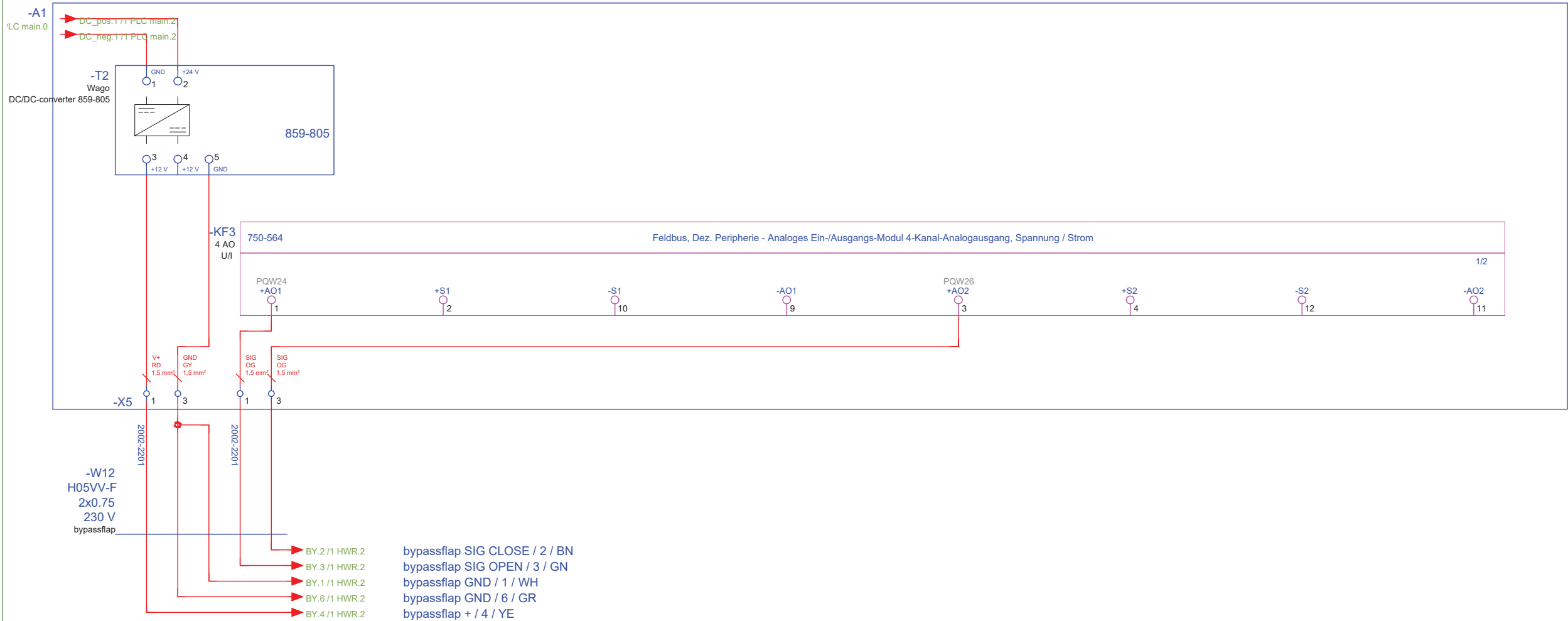
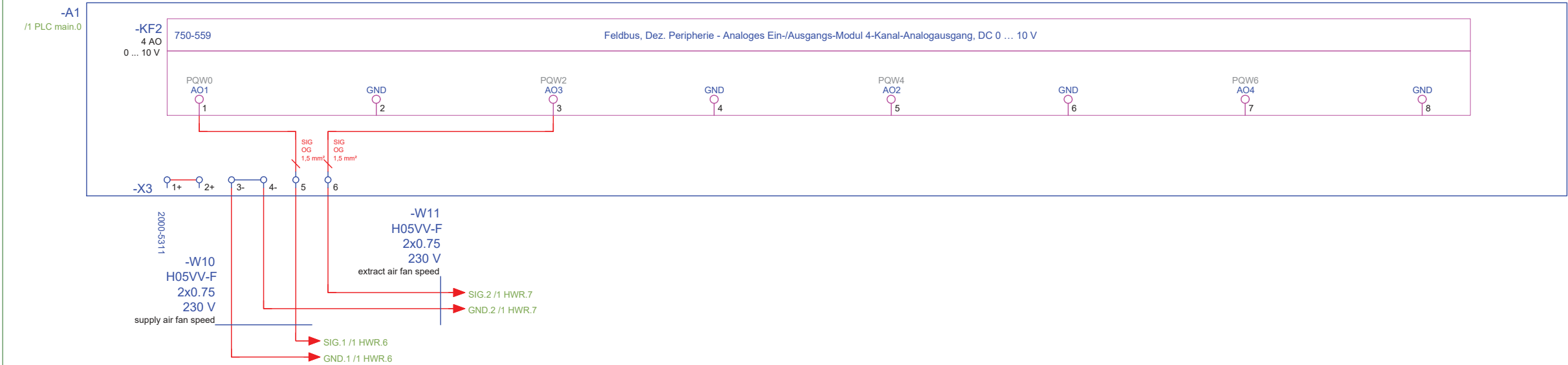
Scale	Phase
n.t.s. (A3 420x297)	D#6

Drawing Content-HDU

Wiring Plan

BMS-1008

utility room
++EG+HWR#UV_HWR/PLC_OUT 1



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
Wiring Plan

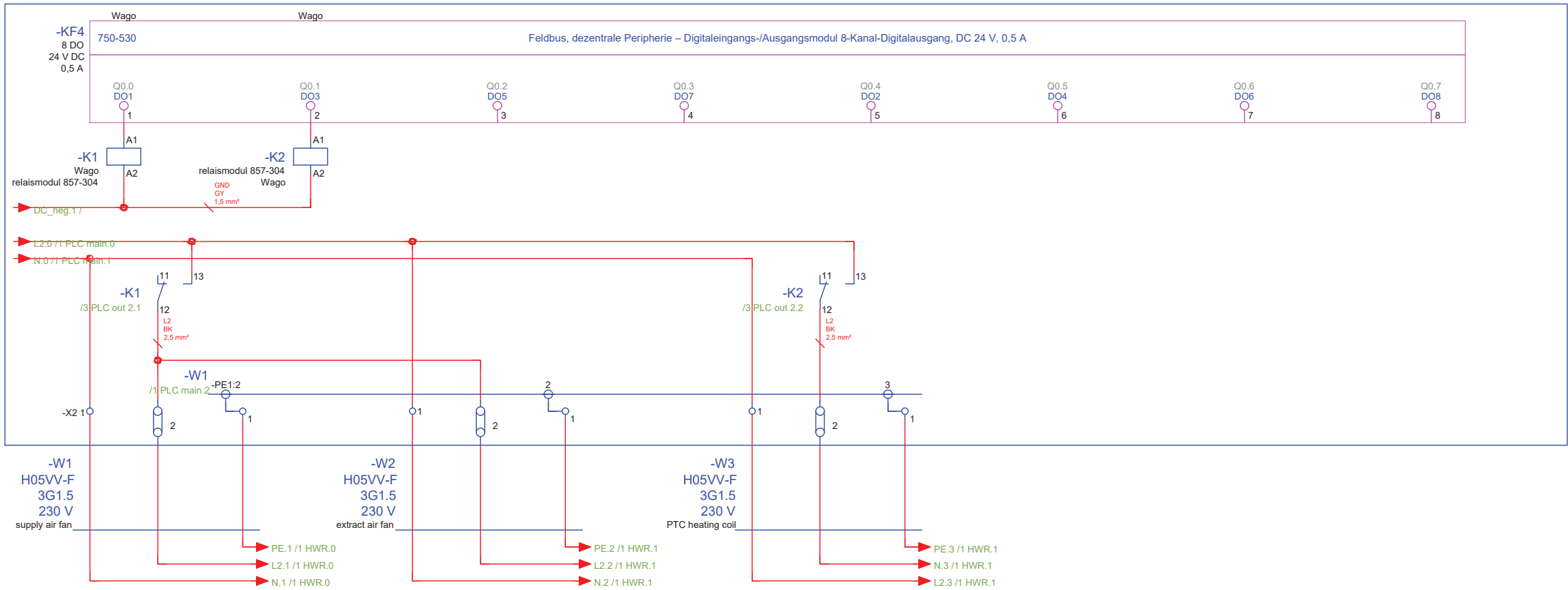
BMS-1009

utility room
++EG+HWR#UV_HWR/PLC_OUT 2

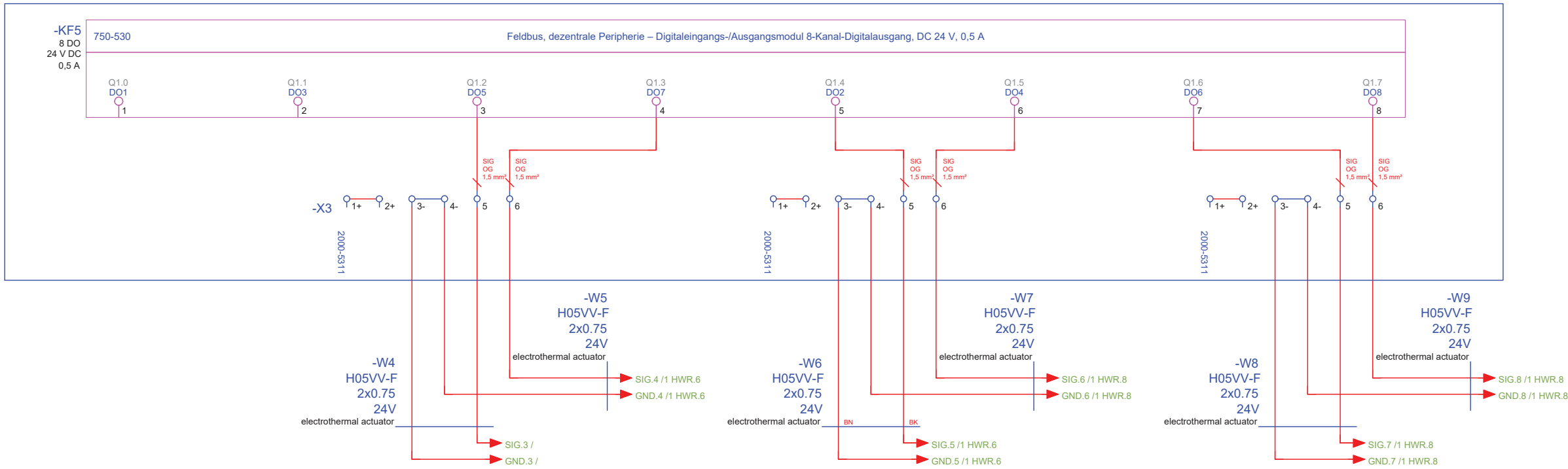


General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

-A1
/1 PLC main.0



-A1
/1 PLC main.0



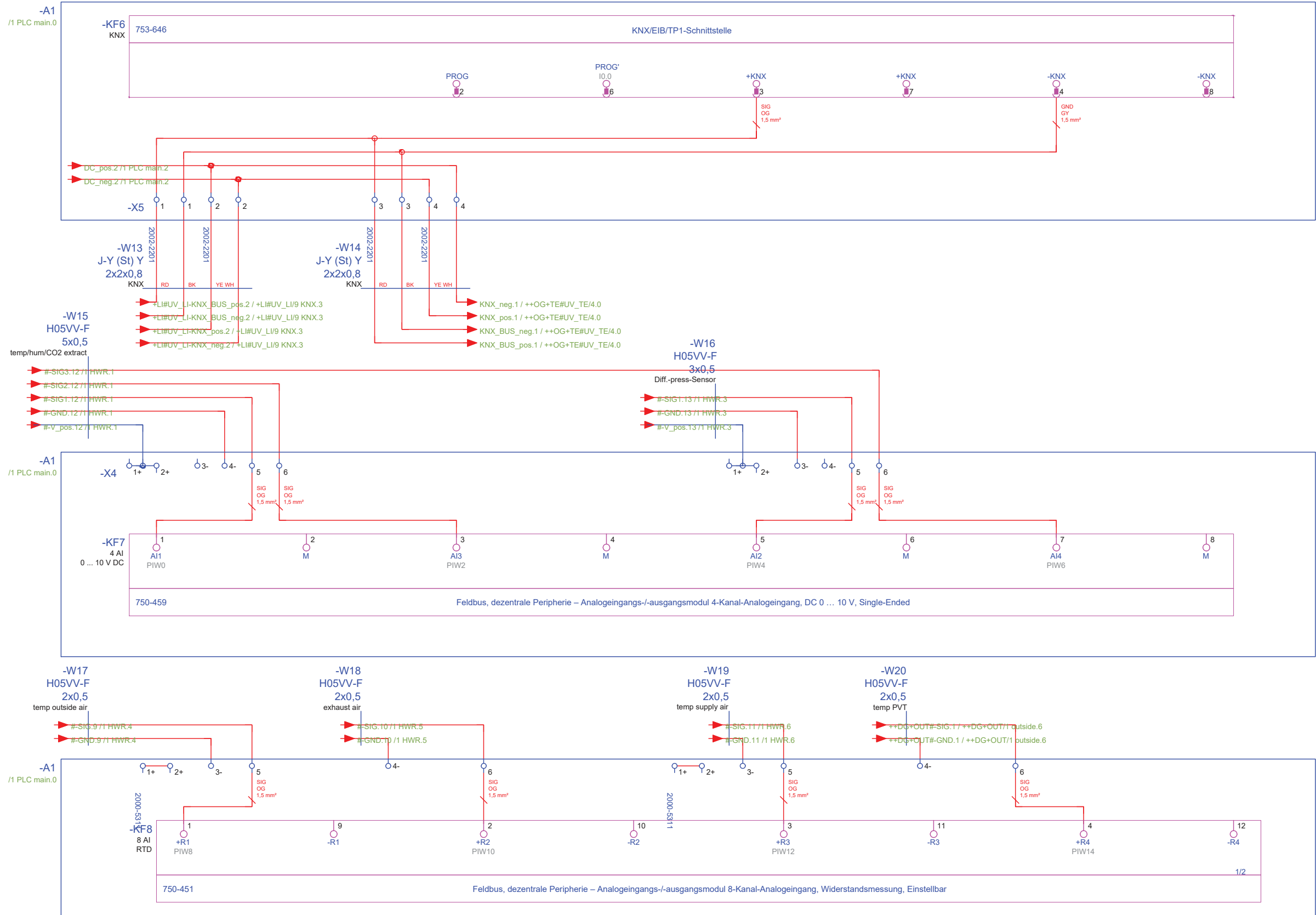
Scale
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Phase
D#6

Drawing Content-HDU
Wiring Plan

BMS-1010

utility room
++EG+HWR#UV_HWR/PLC_IN



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

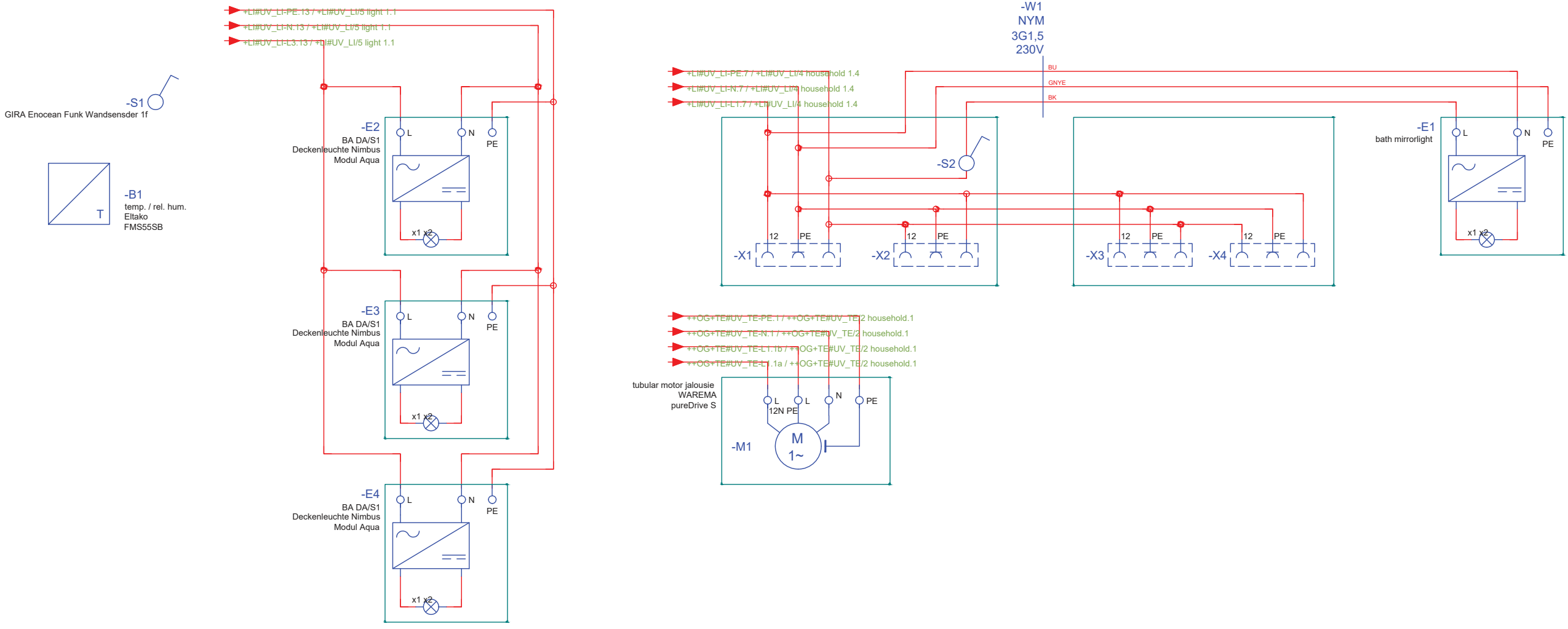
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
Wiring Plan

BMS-1011

bathroom
++EG+BA



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

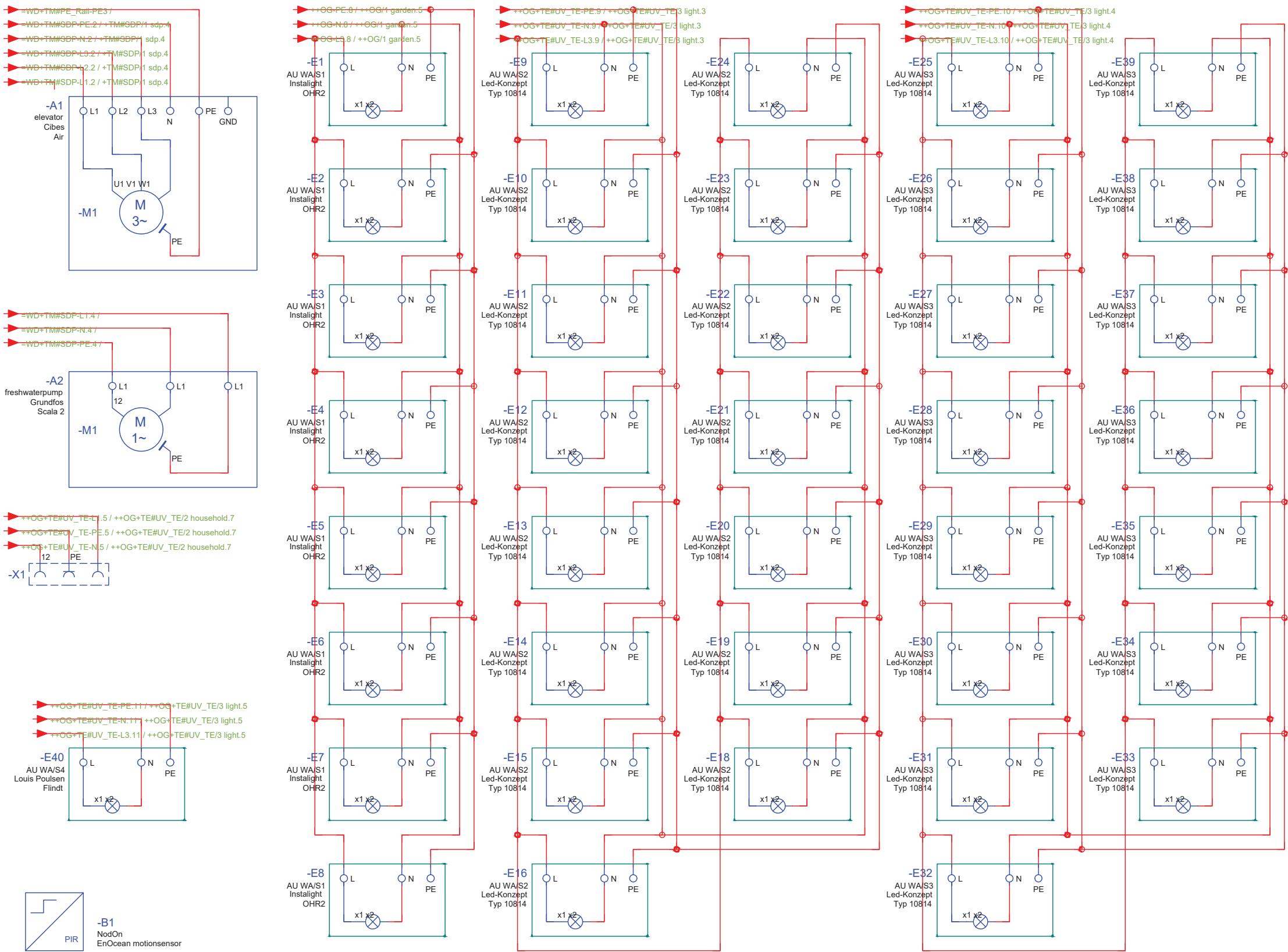
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
Wiring Plan

BMS-1012

outside
++EG+OUT



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

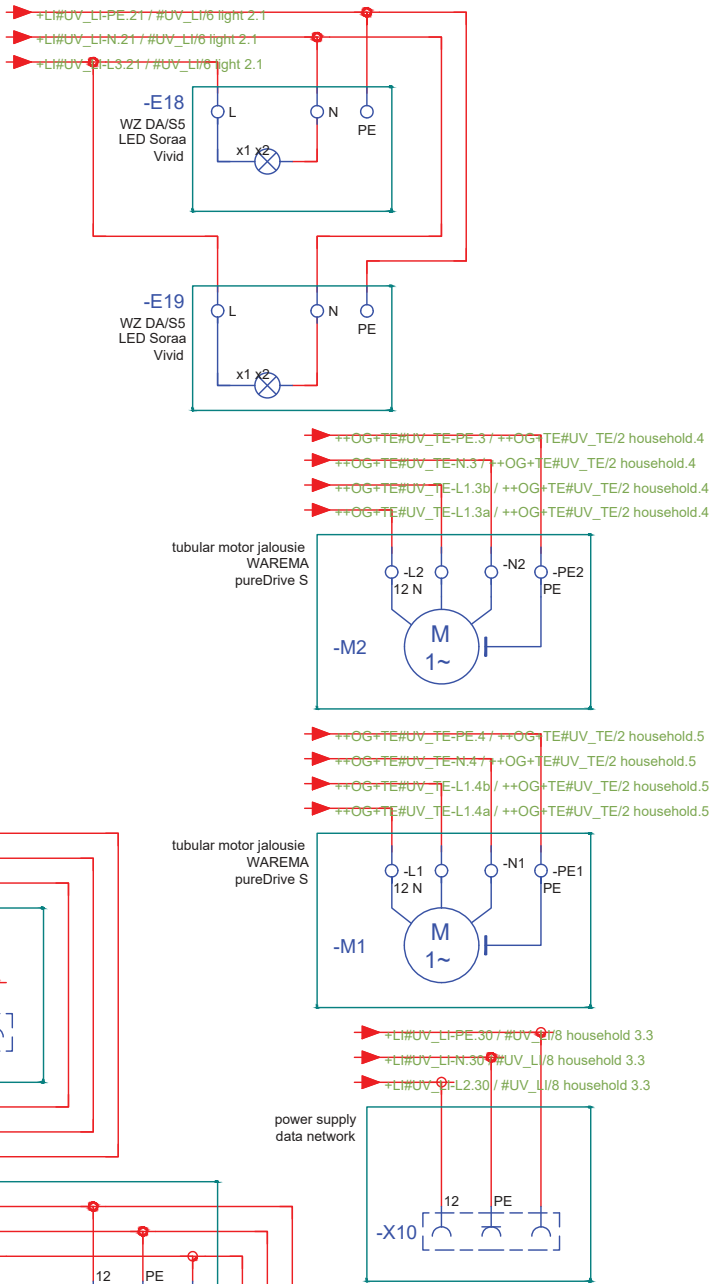
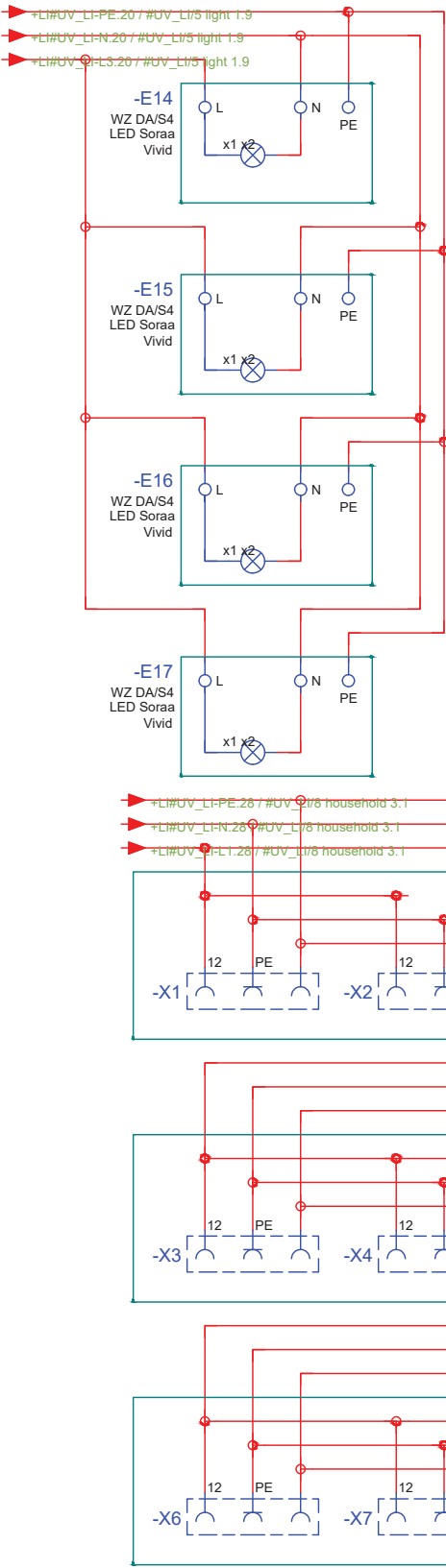
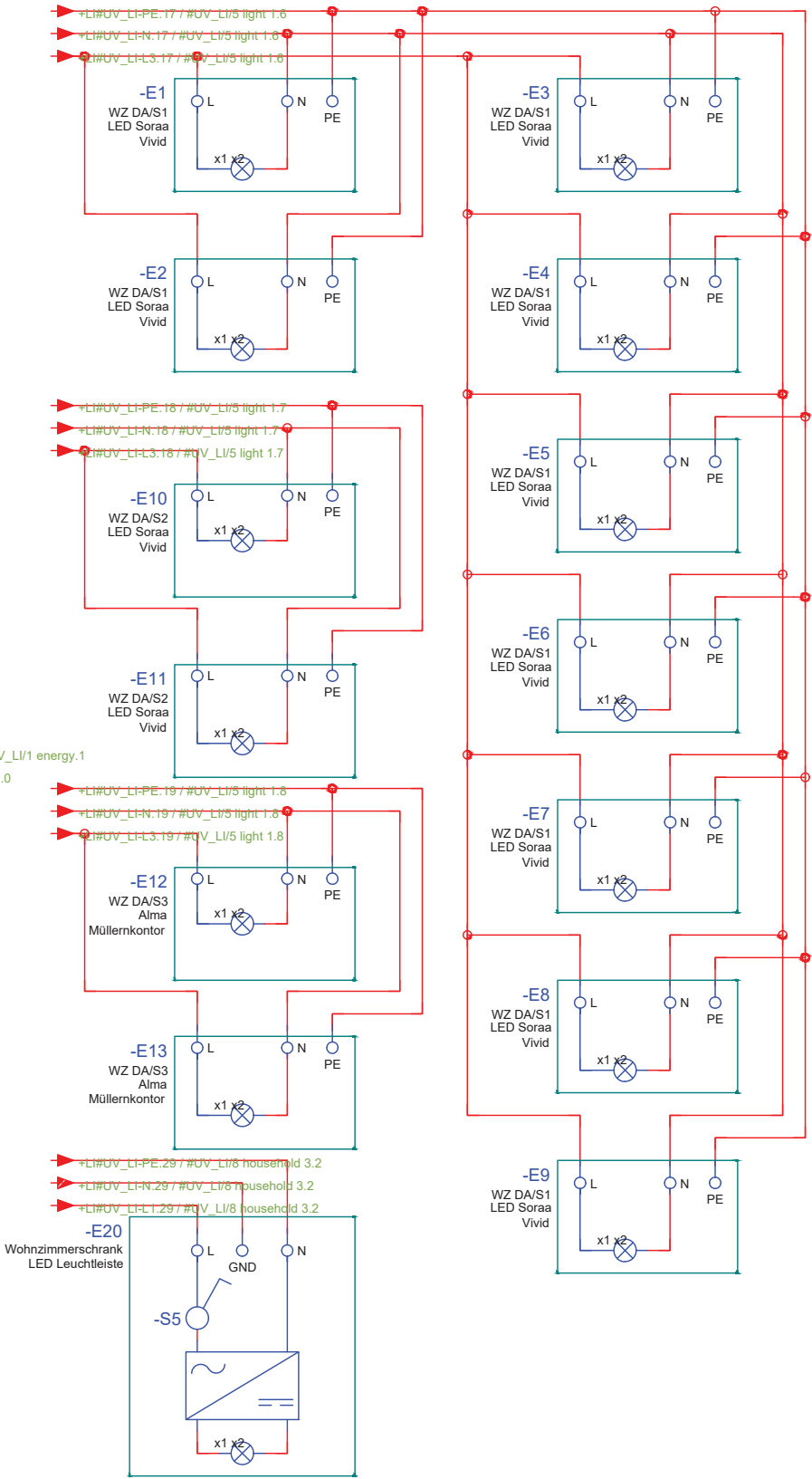
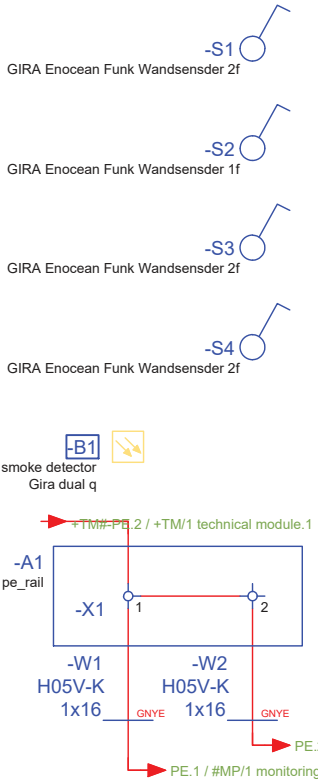
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
Wiring Plan

BMS-1013

livingroom
++EG+LI



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale
n.t.s. (A3 420x297)

Phase
D#6

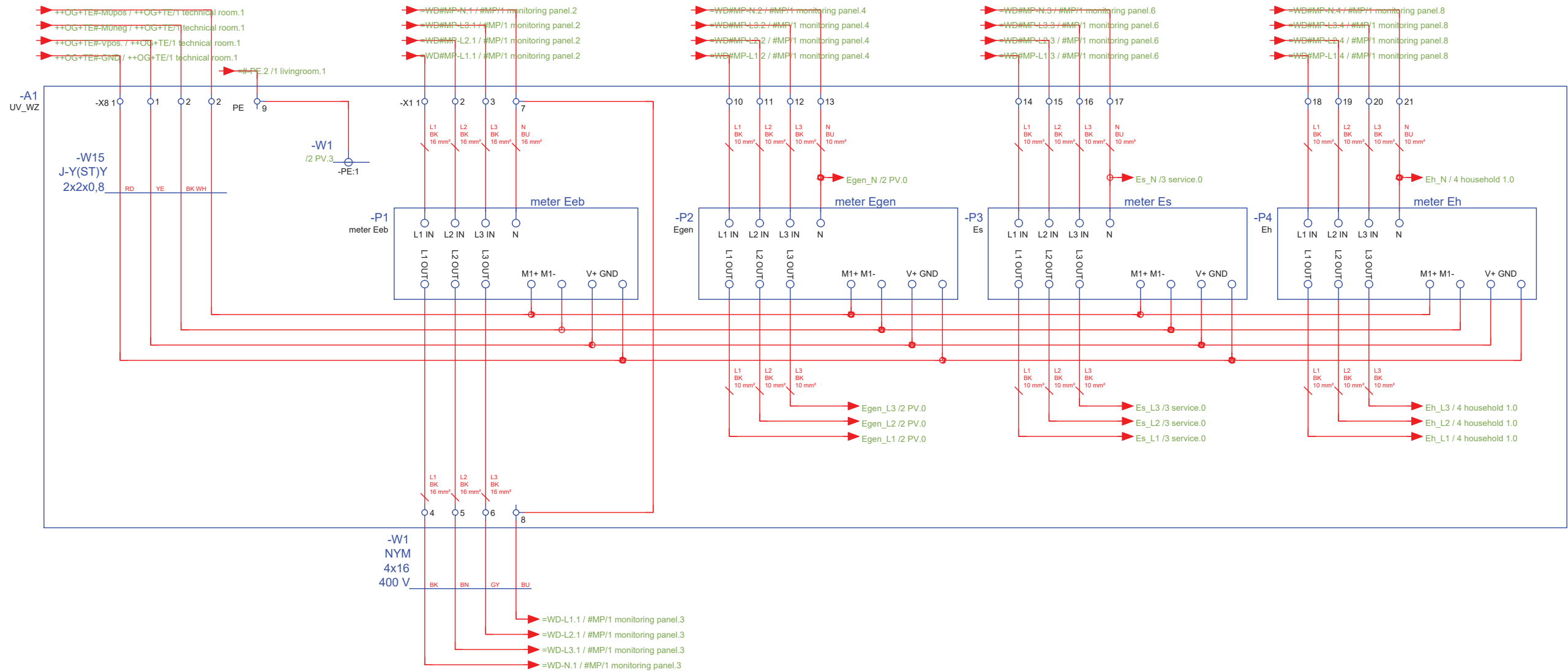
Drawing Content-HDU
Wiring Plan

BMS-1014

livingroom - distribution
++EG+LI#UV_LI/energy



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



Scale
n.t.s. (A3 420x297)

Phase
D#6

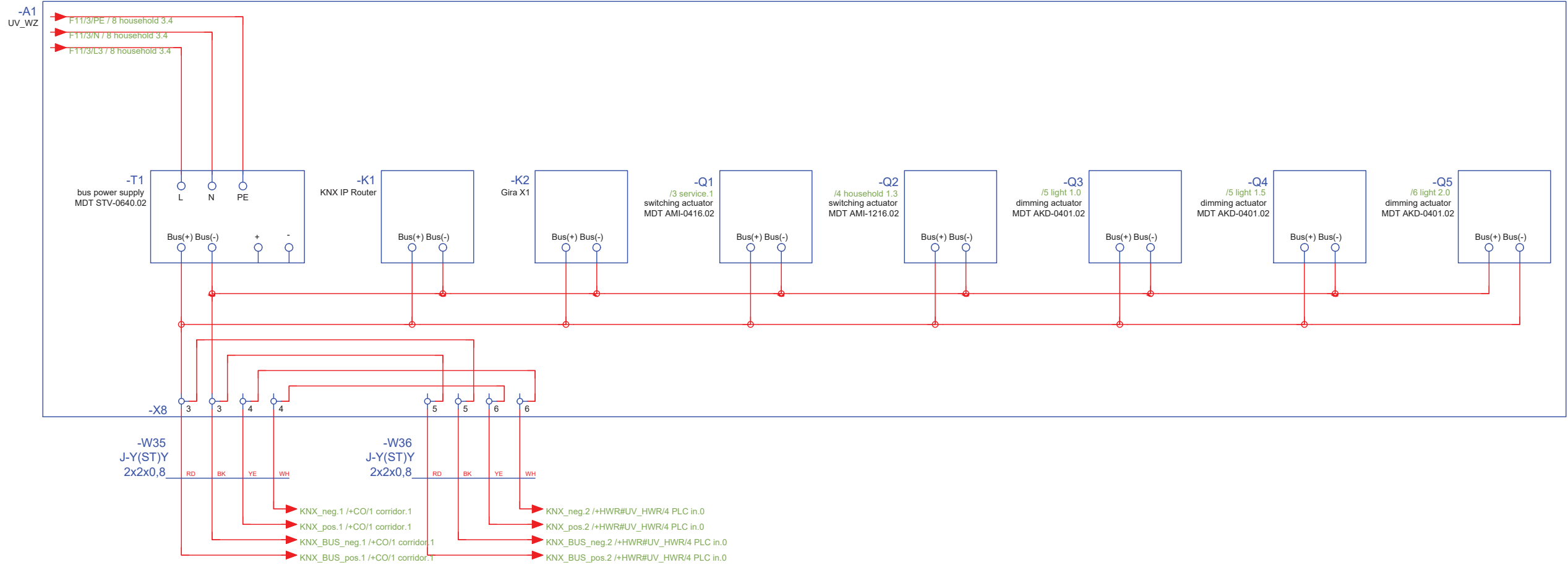
Drawing Content-HDU
Wiring Plan

BMS-1015

livingroom - distribution
++EG+LI#UV_LI/KNX



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
Wiring Plan

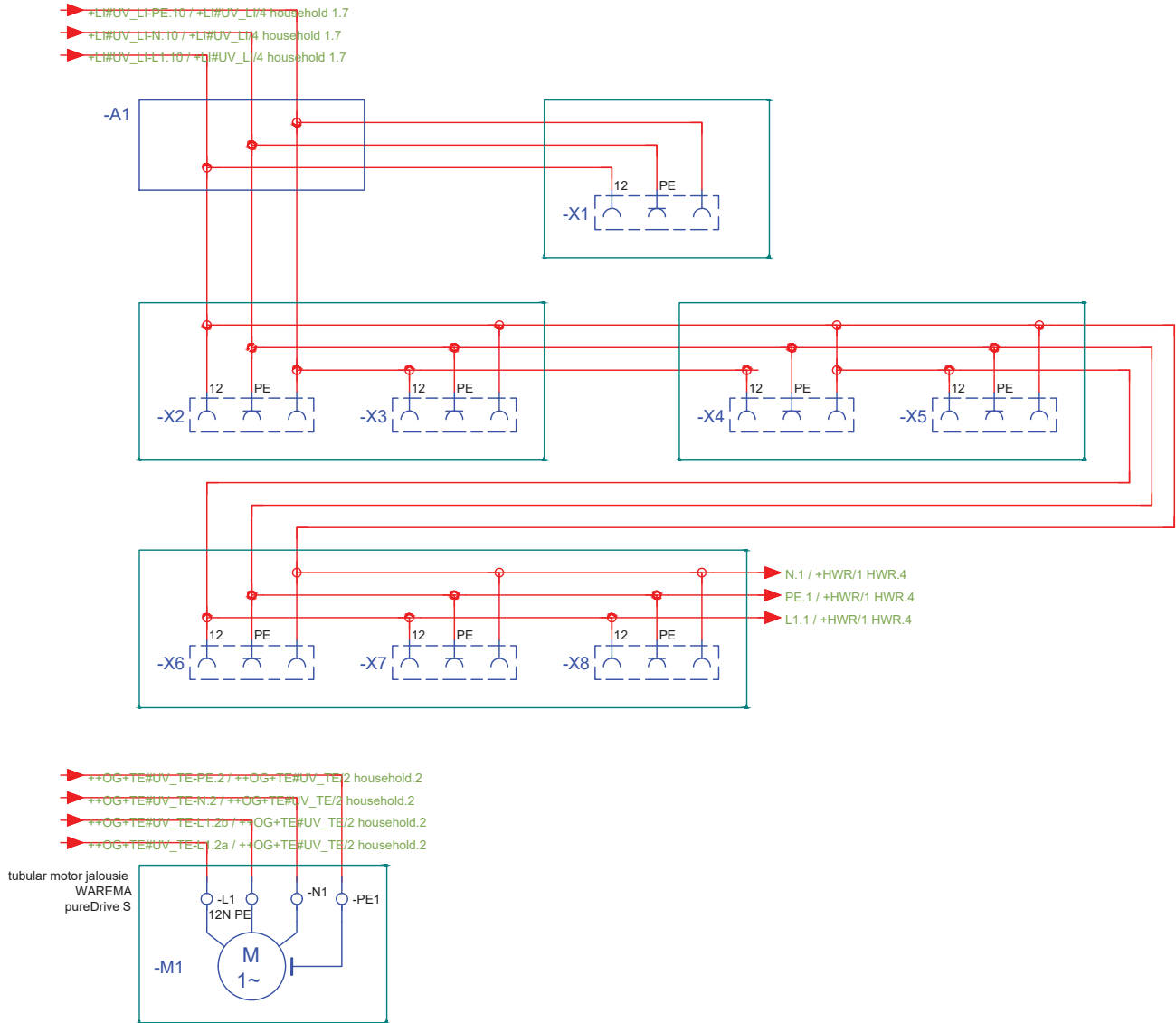
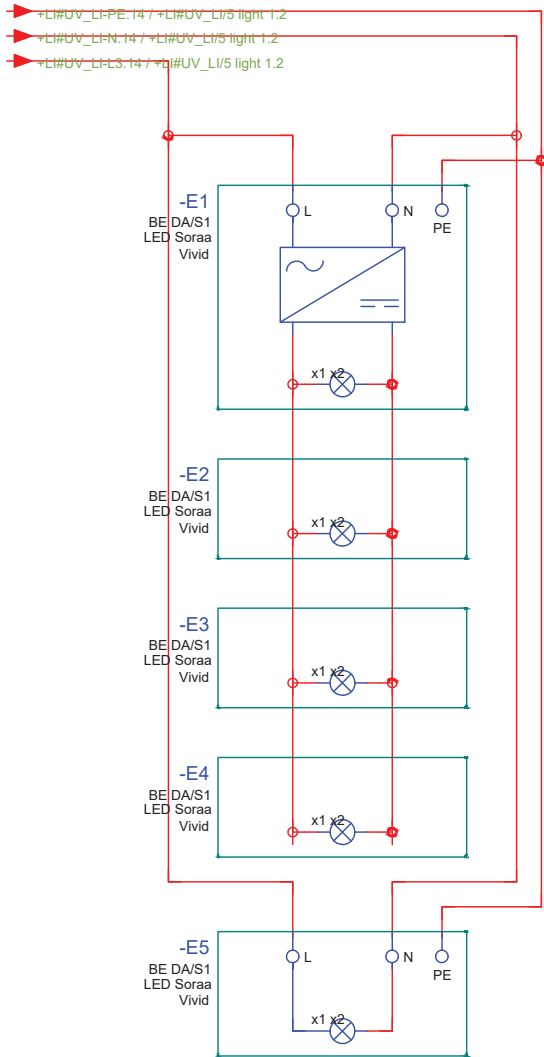
BMS-1016

bedroom
++EG+BE

GIRA Enocean Funk Wandsender 1f
-S1

-B1
temp. / rel. hum.
Eltako
FMS55SB

smoke detector
Gira dual q
-B2



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

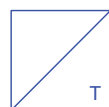
Scale
n.t.s. (A3 420x297)

Phase
D#6

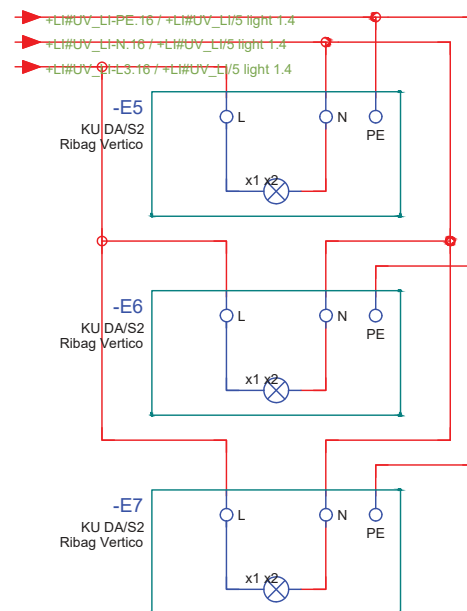
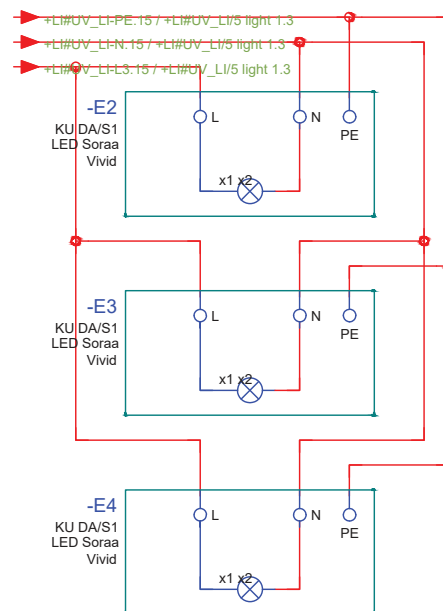
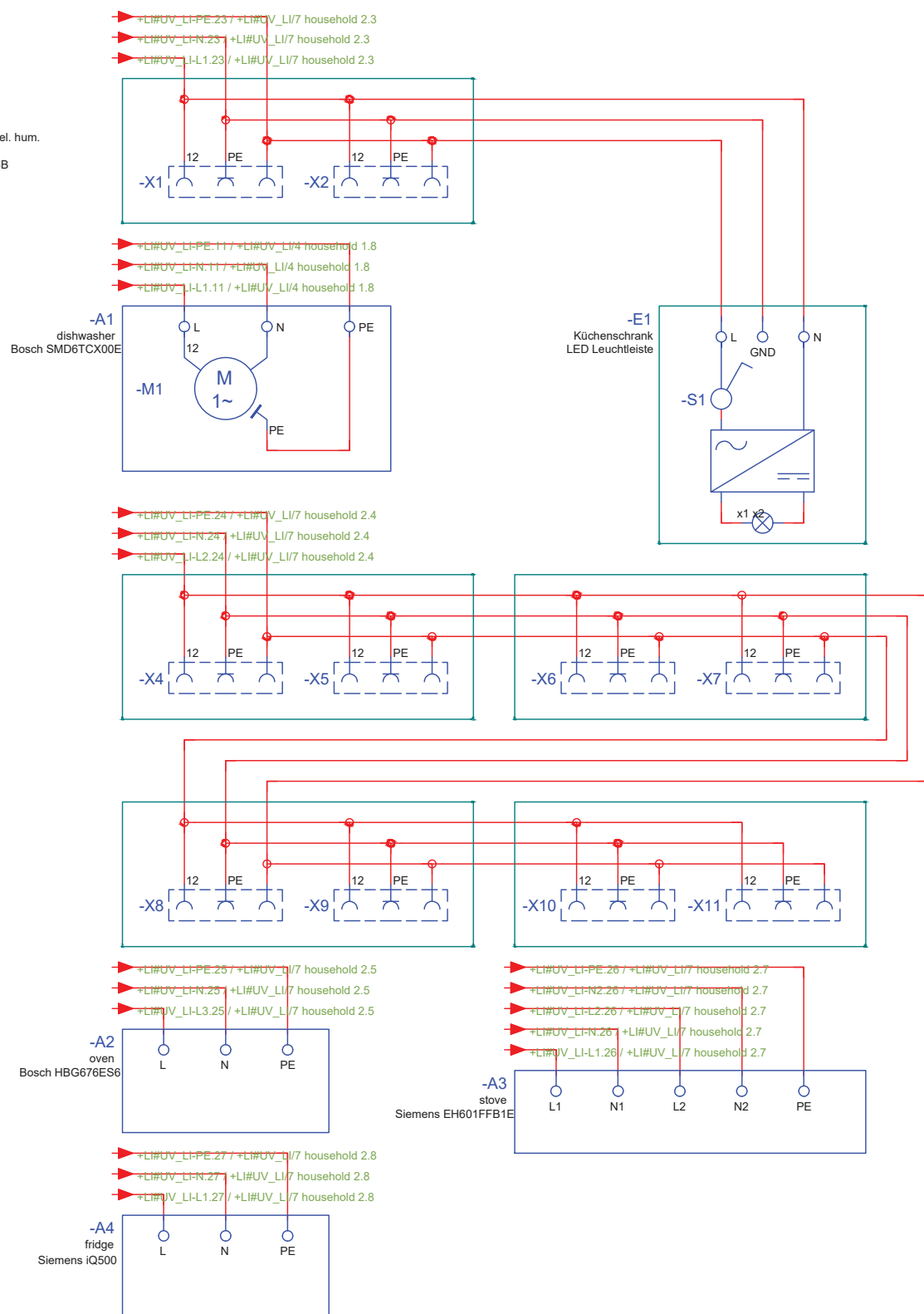
Drawing Content-HDU
Wiring Plan

BMS-1017

kitchen
++EG+KI

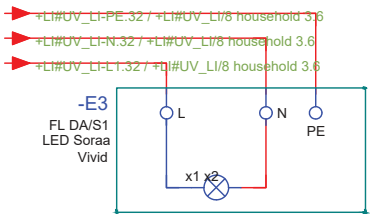
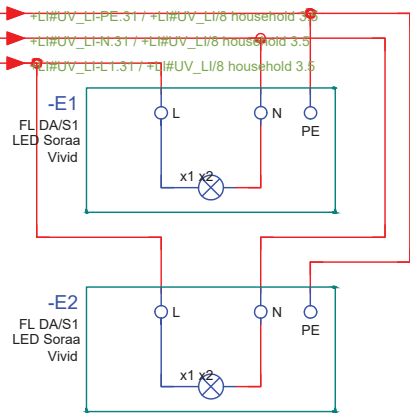
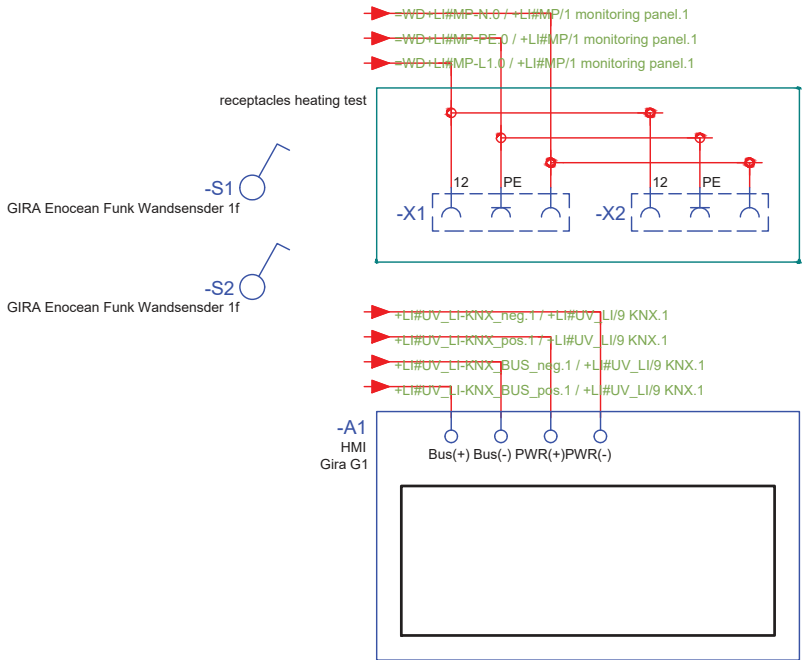


-B1
temp. / rel. hum.
Eltako
FMS55SB



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

corridor
++EG+CO



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

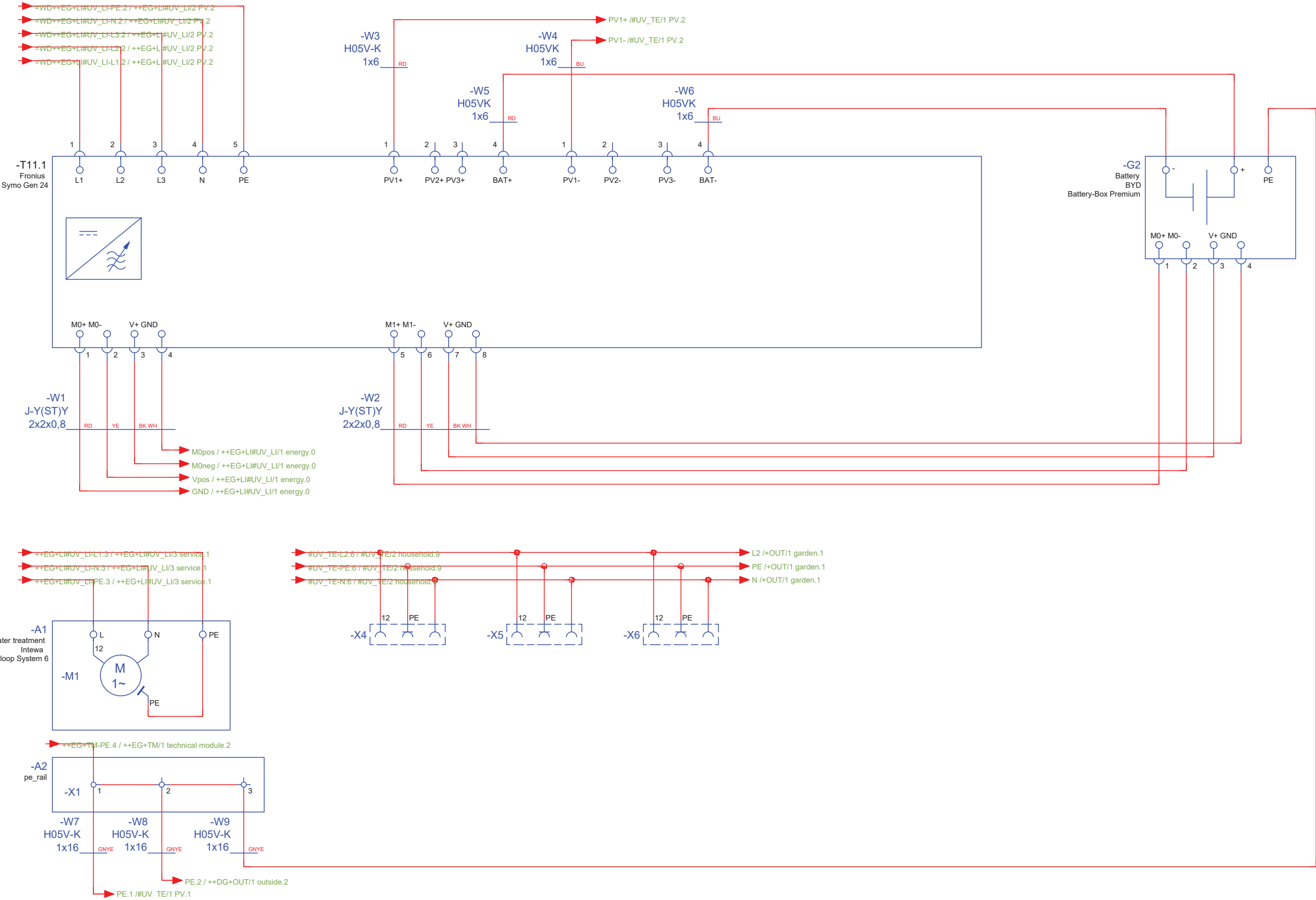
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
Wiring Plan

BMS-1019

technical room
++OG+TE



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

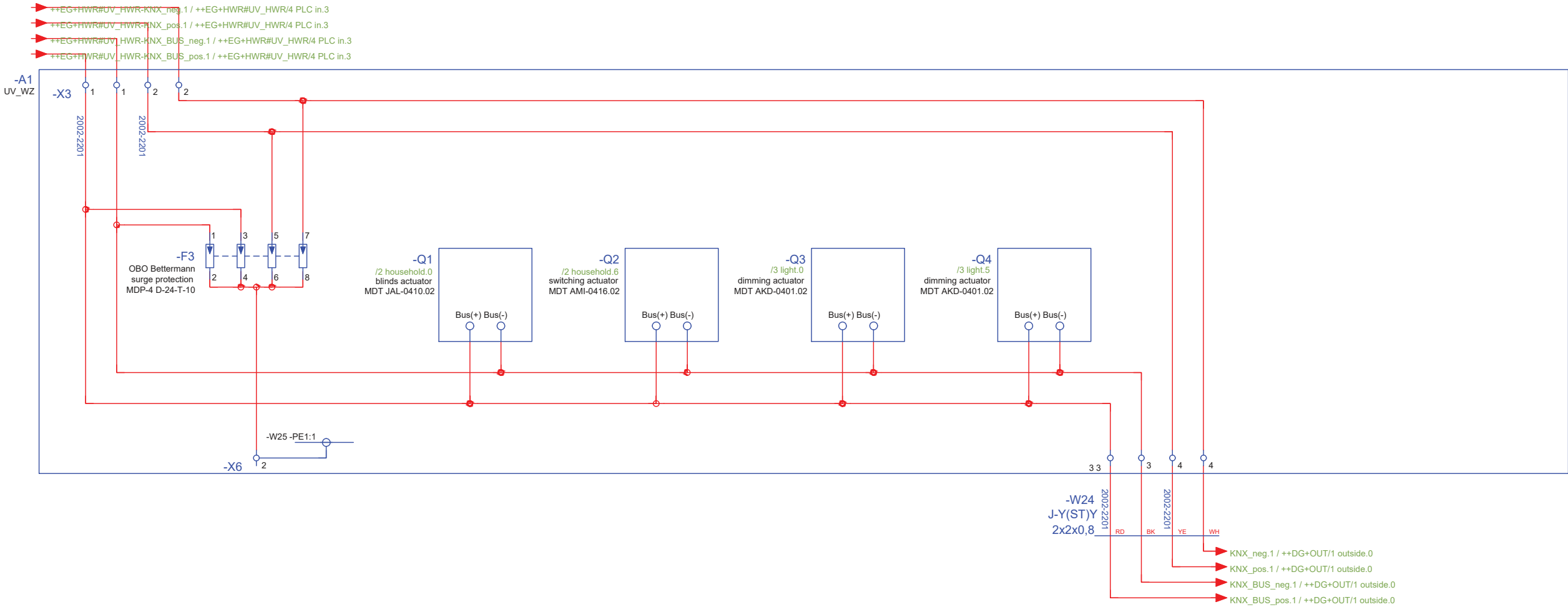
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
Wiring Plan

BMS-1020

technical room
++OG+TE#UV_TE



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

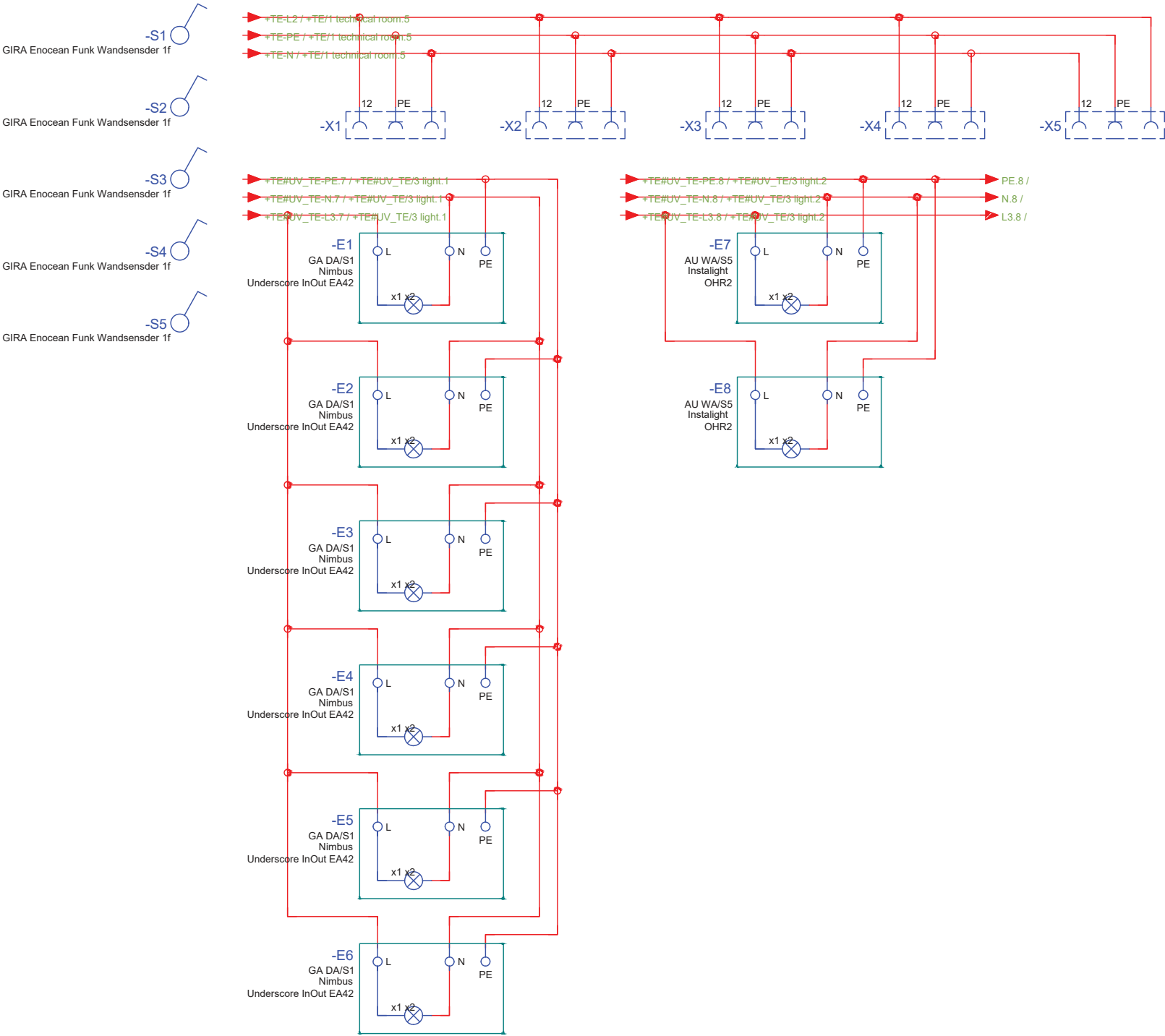
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Phase
D#6

Drawing Content-HDU
Wiring Plan

BMS-1021

garden
++OG+OUT



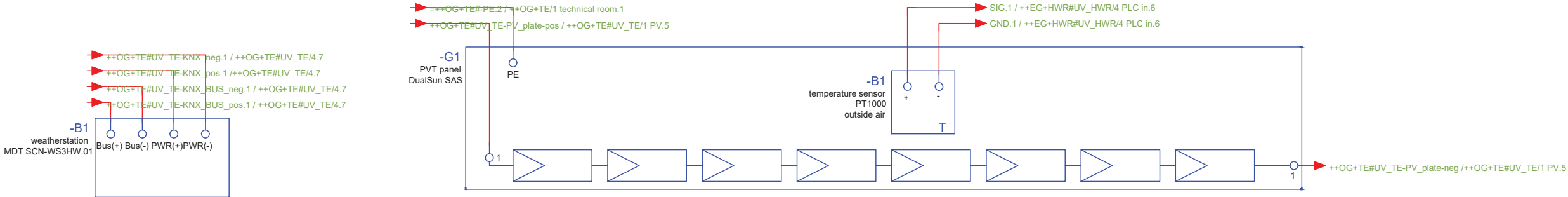
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale
n.t.s. (A3 420x297)

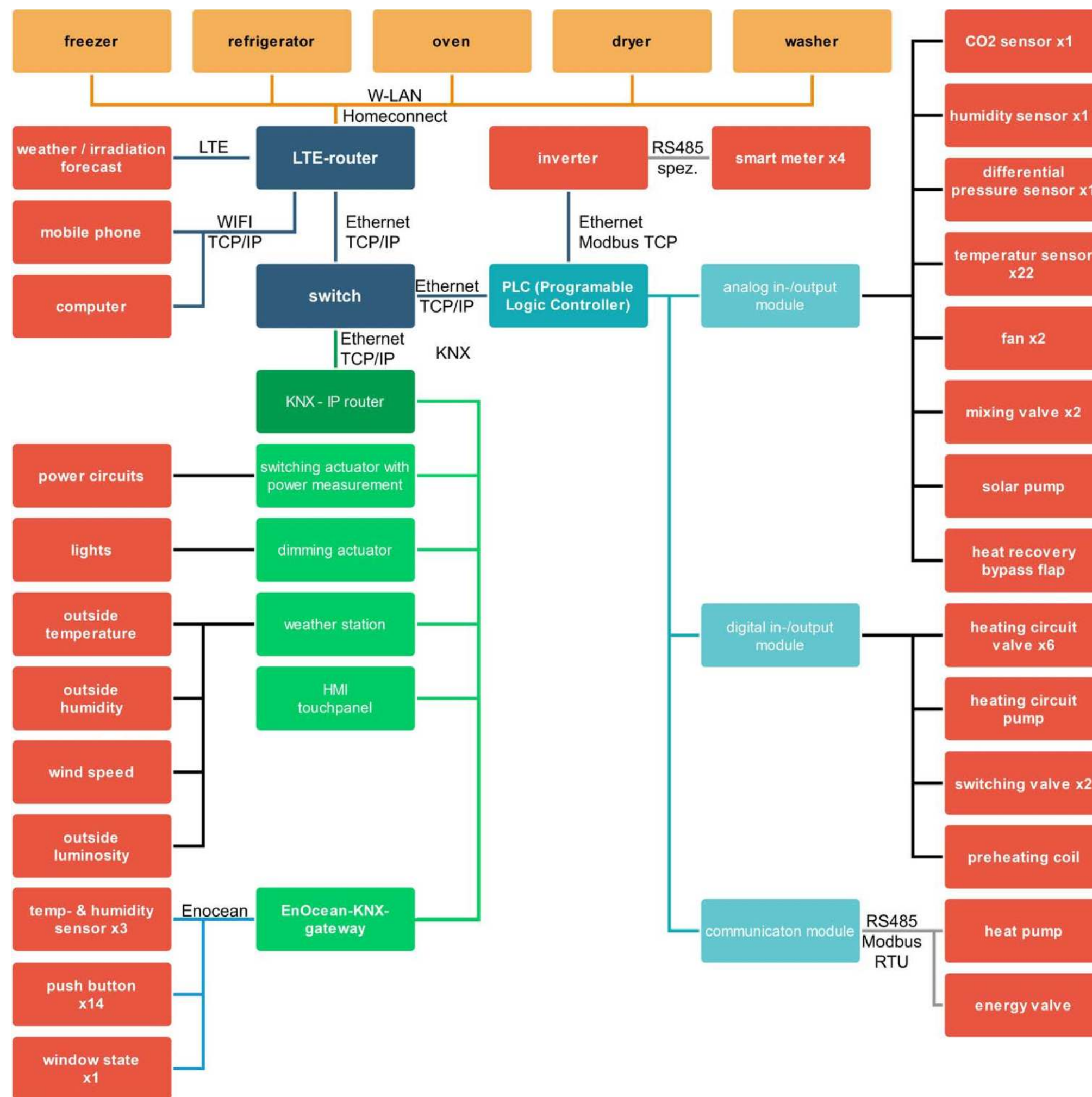
Phase
D#6

Drawing Content-HDU
Wiring Plan

BMS-1022



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT



EG	TM		A7	switching valve	Belimo	SR24A	
			A8	switching valve	Belimo	SR24A	
			A9	switching valve	Belimo	SR24A	
			A10	switching valve	Belimo	SR24A	
			A11	switching valve	Belimo	SR24A	
			A12	switching valve	Belimo	SR24A	
			A13	switching valve	Belimo	SR24A	
			A14	switching valve	Belimo	SR24A	
			A15	switching valve	Belimo	SR24A	
			B1	temperature sensor		PT1000	temp DHW-station supply
			B2	temperature sensor		PT1000	temp DHW-station return
			B3	temperature sensor		PT1000	temp HP DHW-Storage supply
			B4	temperature sensor		PT1000	temp HP DHW-Storage return
			B5	temperature sensor		PT1000	temp DHW cold supply
			B6	temperature sensor		PT1000	temp DHW hot supply
			B7	temperature sensor		PT1000	temp HP buffer-storage supply
			B8	temperature sensor		PT1000	temp HP buffer-storage return
			B9	temperature sensor		PT1000	temp HP primary supply
			B10	temperature sensor		PT1000	temp HP primary return
			B11	temperature sensor		PT1000	temp heating supply
			B12	temperature sensor		PT1000	temp heating return
			B13	temperature sensor		PT1000	temp buffer-storage heating outlet
			B14	temperature sensor		PT1000	temp buffer-storage top
			B15	temperature sensor		PT1000	temp buffer-storage middle
			B16	temperature sensor		PT1000	temp buffer-storage bottom
			B17	temperature sensor		PT1000	temp DHW-storage top
			B18	temperature sensor		PT1000	temp DHW-storage middle
			B19	temperature sensor		PT1000	temp DHW-storage bottom
			B20	temperature sensor		PT1000	temp solar supply
			B21	temperature sensor		PT1000	temp solar return

EG	TM	UV_TM	KF1	PLC	WAGO	750-8210	
			KF2	8-channel digital output	WAGO	750-530	
			KF3	2 pulse width outputs	WAGO	750-511	
			KF4	8-channel analog input	WAGO	750-451	
			KF5	8-channel analog input	WAGO	750-451	
			KF6	8-channel analog input	WAGO	750-451	
			KF7	8-channel analog input	WAGO	750-451	
			KF8	8-channel analog input	WAGO	750-451	
			KF9	8-channel analog input	WAGO	750-451	
			KF10	RS-485 Serial Interface	WAGO	750-653/003-000	
			KF11	RS-485 Serial Interface	WAGO	750-653/003-000	

EG	HWR		B1	temp/hum/CO2 sensor	Belimo	22DTM-11	
			B2	diff.-press sensor	Belimo	22ADP-124D	
			A1	ventilationsystem	Maico	WS3000	

EG	HWR	A1	B1	temperature sensor		PT1000	outside air
			B2	temperature sensor		PT1000	exhaust air
			B3	temperature sensor		PT1000	supply air



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
n.t.s. (A3 420x297)	D#6

Drawing Content-HDU
Equipment

BMS-3001

EG	HWQ	UV_HWR	KF1	PLC	WAGO	750-8210	
			KF2	4-channel analog output	WAGO	750-559	
			KF3	4-channel analog output	WAGO	750-564	
			KF4	8-channel digital output	WAGO	750-530	
			KF5	8-channel digital output	WAGO	750-530	
			KF6	KNX/EIB/TP1 Interface	WAGO	753-646	
			KF7	4-channel analog input	WAGO	750-459	
			KF8	8-channel analog input	WAGO	750-451	
EG	BA		B1	temp. / rel. hum. sensor	Eltako	FMS55SB	
			S1	pushbutton	GIRA	Enocean pushbutton 1f	
EG	OUT		B1	motion sensor	NodOn	EnOcean motionsensor	
EG	LI		B1	smoke detector	Gira	dual q	
			S1	pushbutton	GIRA	Enocean pushbutton 2f	
			S2	pushbutton	GIRA	Enocean pushbutton 1f	
			S3	pushbutton	GIRA	Enocean pushbutton 2f	
			S4	pushbutton	GIRA	Enocean pushbutton 2f	
EG	LI	UV_LI	P1	smartmeter	Fronius	TS 65A-3	
			P2	smartmeter	Fronius	TS 65A-3	
			P3	smartmeter	Fronius	TS 65A-3	
			P4	smartmeter	Fronius	TS 65A-3	
			K1	KNX-TCP/IP-Gateway	Gira	KNX IP Router	
			K2		Gira	X1	
			Q1	switching actuator	MDT	AMI-0416.02	
			Q2	switching actuator	MDT	AMI-1216.02	
			Q3	dimming actuator	MDT	AKD-0401.02	
			Q4	dimming actuator	MDT	AKD-0401.02	
			Q5	dimming actuator	MDT	AKD-0401.02	
EG	BE		B1	temp. / rel. hum. sensor	Eltako	FMS55SB	
			B2	smoke detector	Gira	dual q	
			S1	pushbutton	GIRA	Enocean pushbutton 1f	
EG	KI		B1	temp. / rel. hum. sensor	Eltako	FMS55SB	
EG	CO		A1	HMI	GIRA	G1	
			S1	pushbutton	GIRA	Enocean pushbutton 1f	
			S2	pushbutton	GIRA	Enocean pushbutton 1f	
OG	TE		G1	battery	BYD	Battery-Box Premium	
			T1	inverter	Fronius	Symo Gen 24	
OG	TE	UV_TE	Q1	blinds actuator	MDT	JAL-0410.02	
			Q2	switching actuator	MDT	AMI-0416.02	
			Q3	dimming actuator	MDT	AKD-0401.02	
			Q4	dimming actuator	MDT	AKD-0401.02	



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
n.t.s. (A3 420x297)	D#6

Drawing Content-HDU
Equipment

BMS-3002

OG	OUT		S1	pushbutton	GIRA	Enocean pushbutton 1f	
			S2	pushbutton	GIRA	Enocean pushbutton 1f	
			S3	pushbutton	GIRA	Enocean pushbutton 1f	
			S4	pushbutton	GIRA	Enocean pushbutton 1f	
			S5	pushbutton	GIRA	Enocean pushbutton 1f	

DG	OUT		B1	weatherstation	MDT	SCN-WS3HW.01	
			G1	PVT panel	DualSun	SAS	

DG	OUT	G1	B1	temperature sensor		PT1000	temperatur PVT-modul
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General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Instrumentation Drawings (ID)



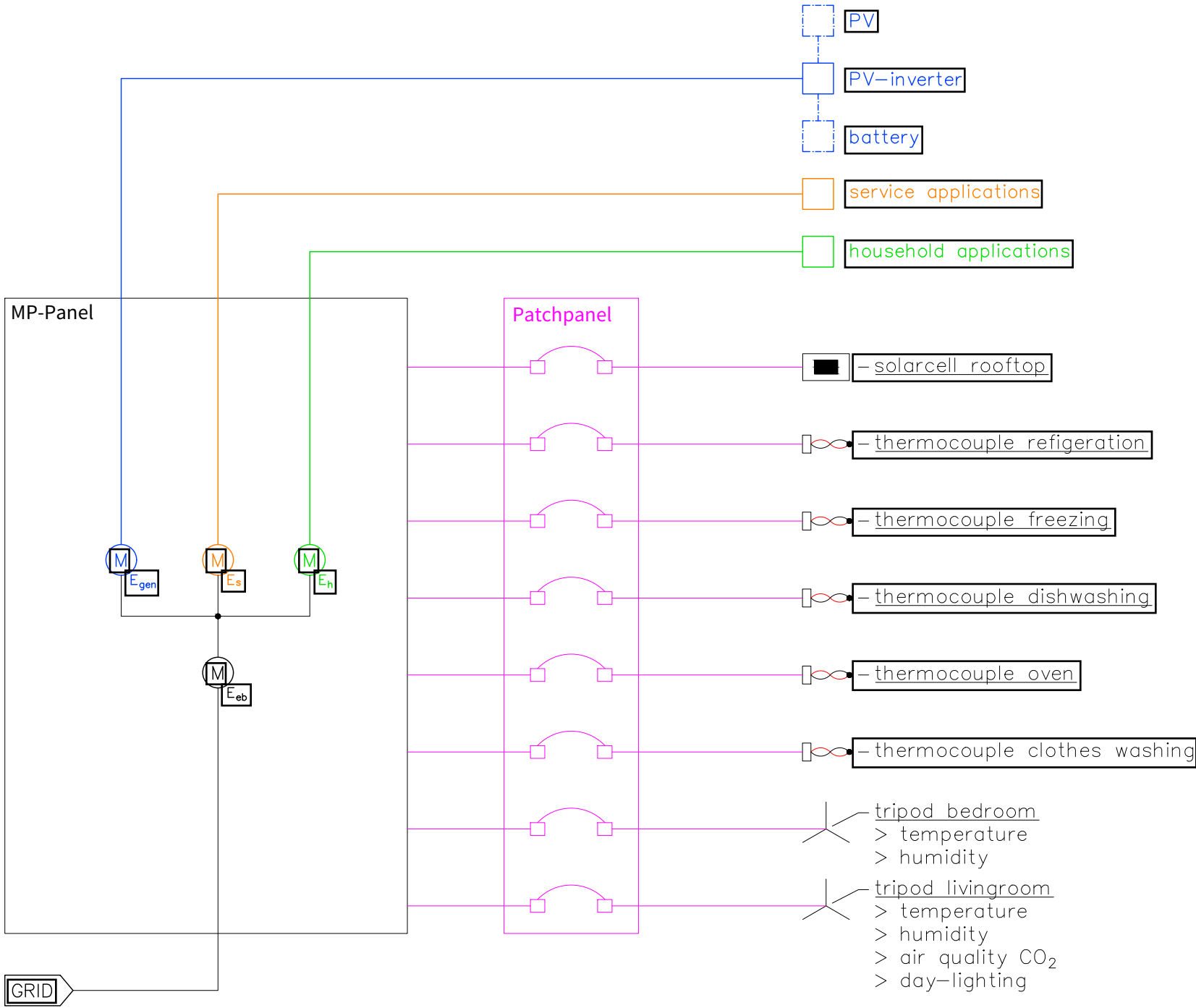
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Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

General / Grid	—
PV=AC	—
PV=DC	—
Service (HVAC)	—
Household (light, household appliances, etc.)	—
CAT 6.A	—

Scale	Phase
1:50 (A3 420x297)	D#6

Drawing Content-HDU
Conceptual Drawings

ID-0001



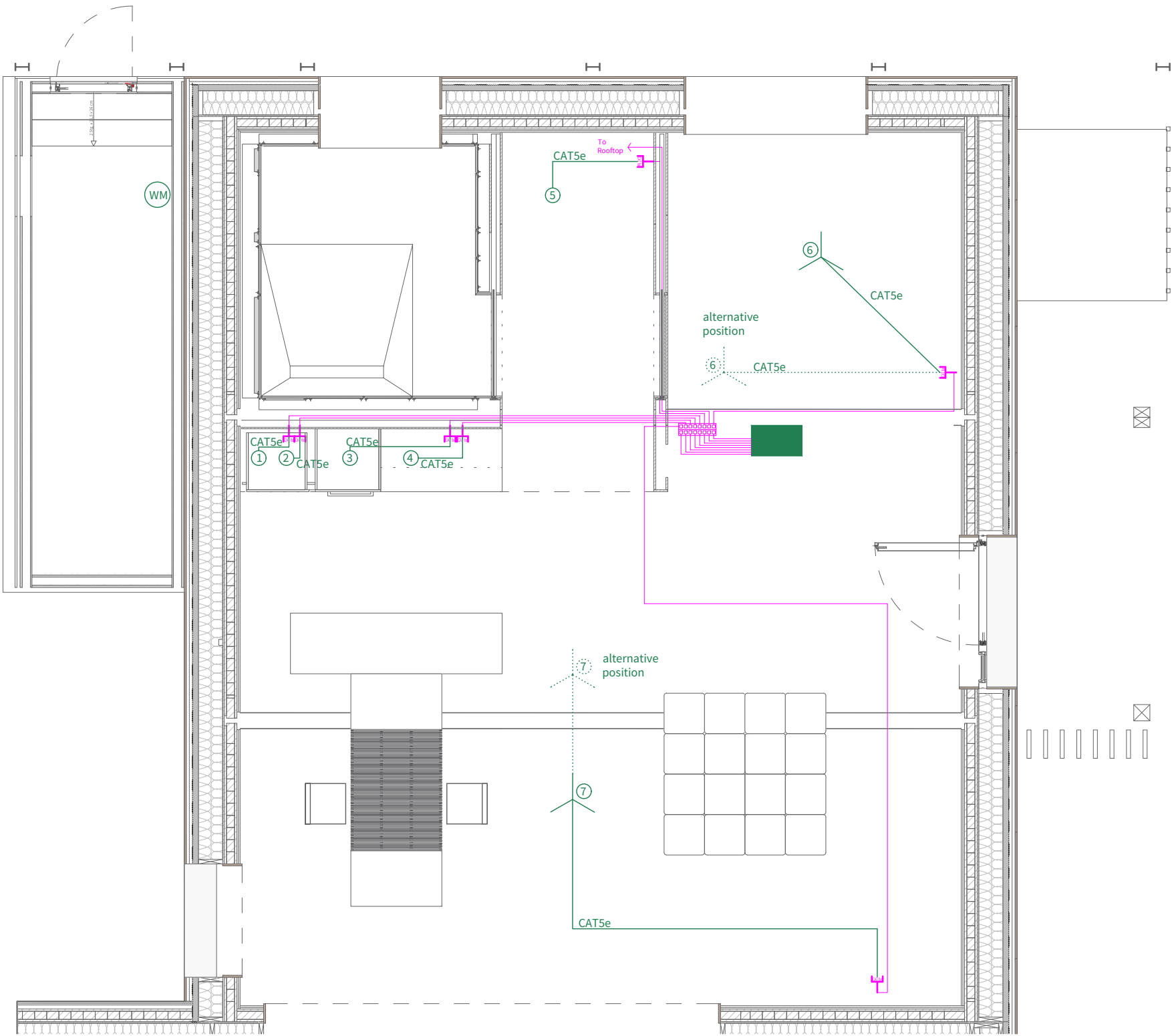
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

- ① refrigeration
- ② freezer
- ③ oven
- ④ dishwashing
- ⑤ clothes washing
- ⑥ tripod bedroom
- ⑦ tripod livingroom
- ⑧ rooftop solarcell
-  RJ45 networksocket
-  tripod
-  monitoring panel
-  CAT 5e
-  CAT 6a
-  patchpanel
-  WM water meter

Scale 1:50 (A3 420x297) Phase D#6

Drawing Content-HDU
General Monitoring
Level 01

ID-1001 



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

- ① refrigeration
- ② freezer
- ③ oven
- ④ dishwashing
- ⑤ clothes washing
- ⑥ tripod bedroom
- ⑦ tripod livingroom
- ⑧ rooftop solarcell
-  RJ45 networksocket
-  tripod
-  monitoring panel
-  CAT 5e
-  CAT 6a
-  patchpanel
-  water meter

Scale

1:50 (A3 420x297)

Phase

D#6

Drawing Content-HDU

General Monitoring

Level 03

sensor (sub-contest)	sensor	type of wire	length of wire from MP to sensor in m
3.4	PV reference cell	CAT 6A	12
7.1	temperature	CAT 6A	3
7.2	humidity		
7.3	air quality CO ₂		
7.4	day-lighting		
7.1	temperature	CAT 6A	21
7.2	humidity		
8.1	refrigeration	CAT 6A	4
8.2	freezing	CAT 6A	4
8.3	clothes washing	CAT 6A	8
8.5	dishwashing	CAT 6A	8
8.6	oven	CAT 6A	3.5

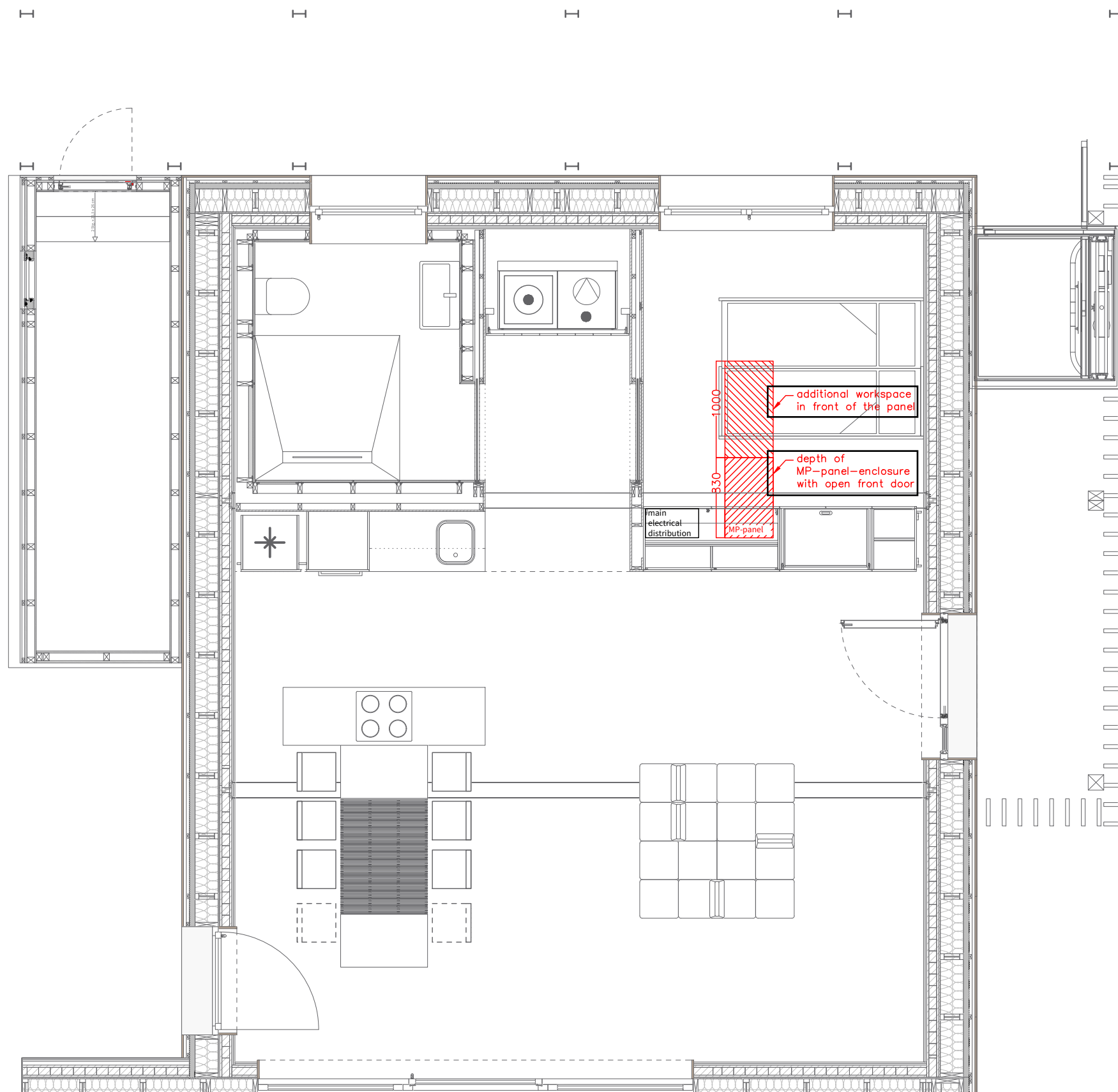


General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

Scale	Phase
1:50 (A3 420x297)	D#6

Drawing Content-HDU
General Monitoring
Cabel Length

ID-1003



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

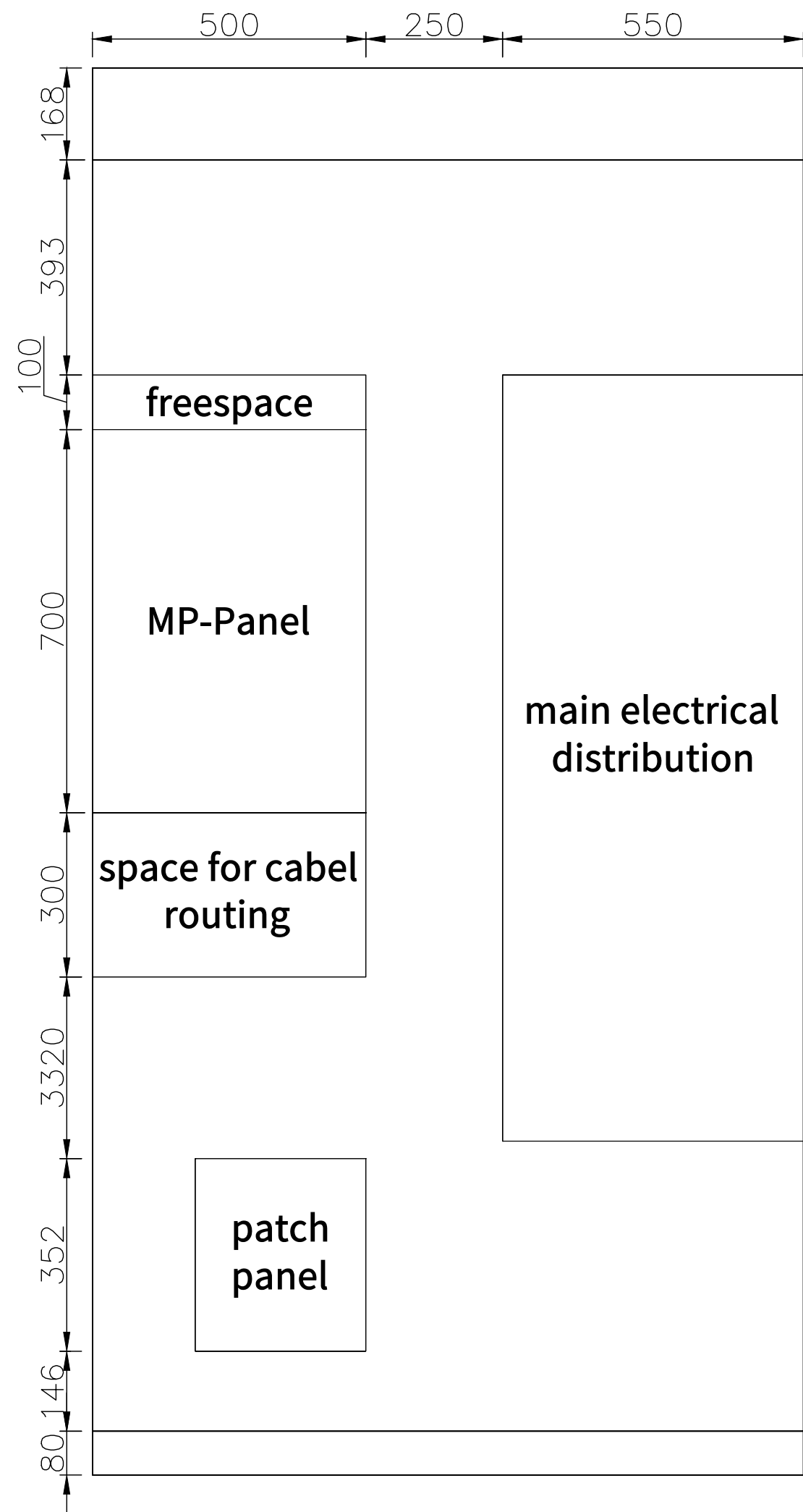
Scale
1:50 (A3 420x297)

Phase
D#6

Drawing Content-HDU
Monitoring panel room
Level 01

ID-2001 

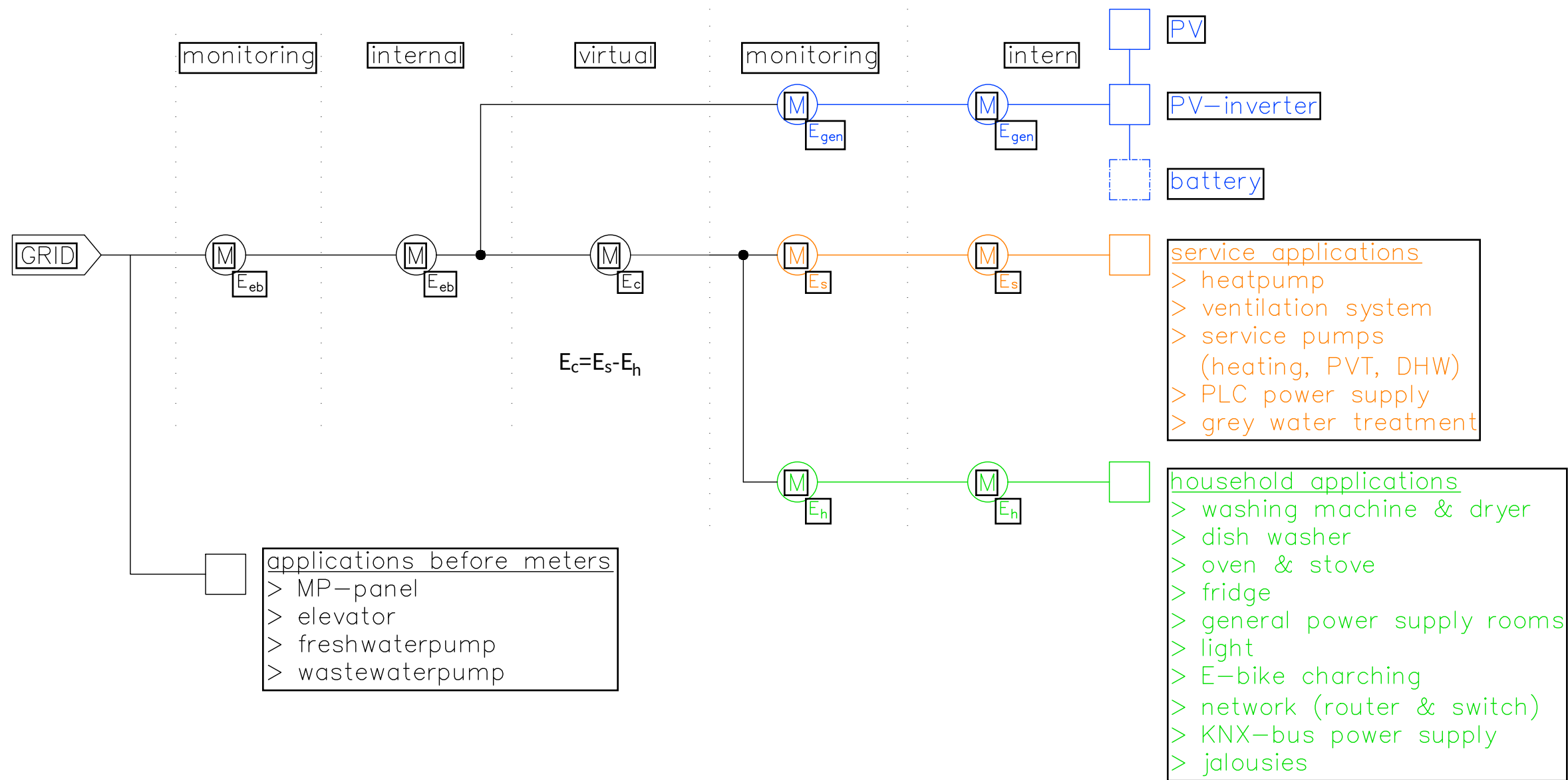
front view
MP-panel &
main electrical distribution room



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

General / Grid	—
PV	—
Service (HVAC)	—
Household (light, household appliances, etc.)	—



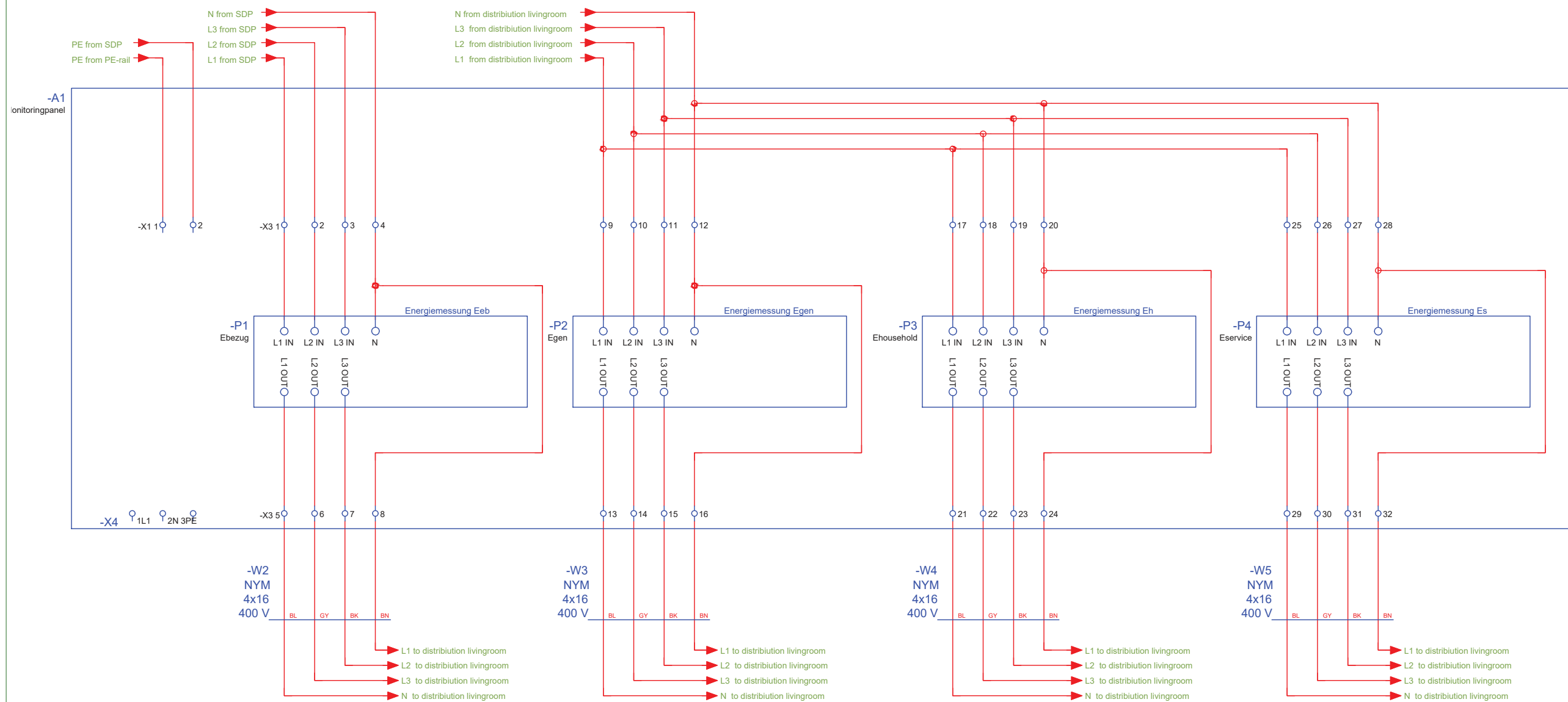
Scale
n.t.s. (A3 420x297)

Phase
D#6

Drawing Content-HDU
Electricity meters' topology

ID-3001

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

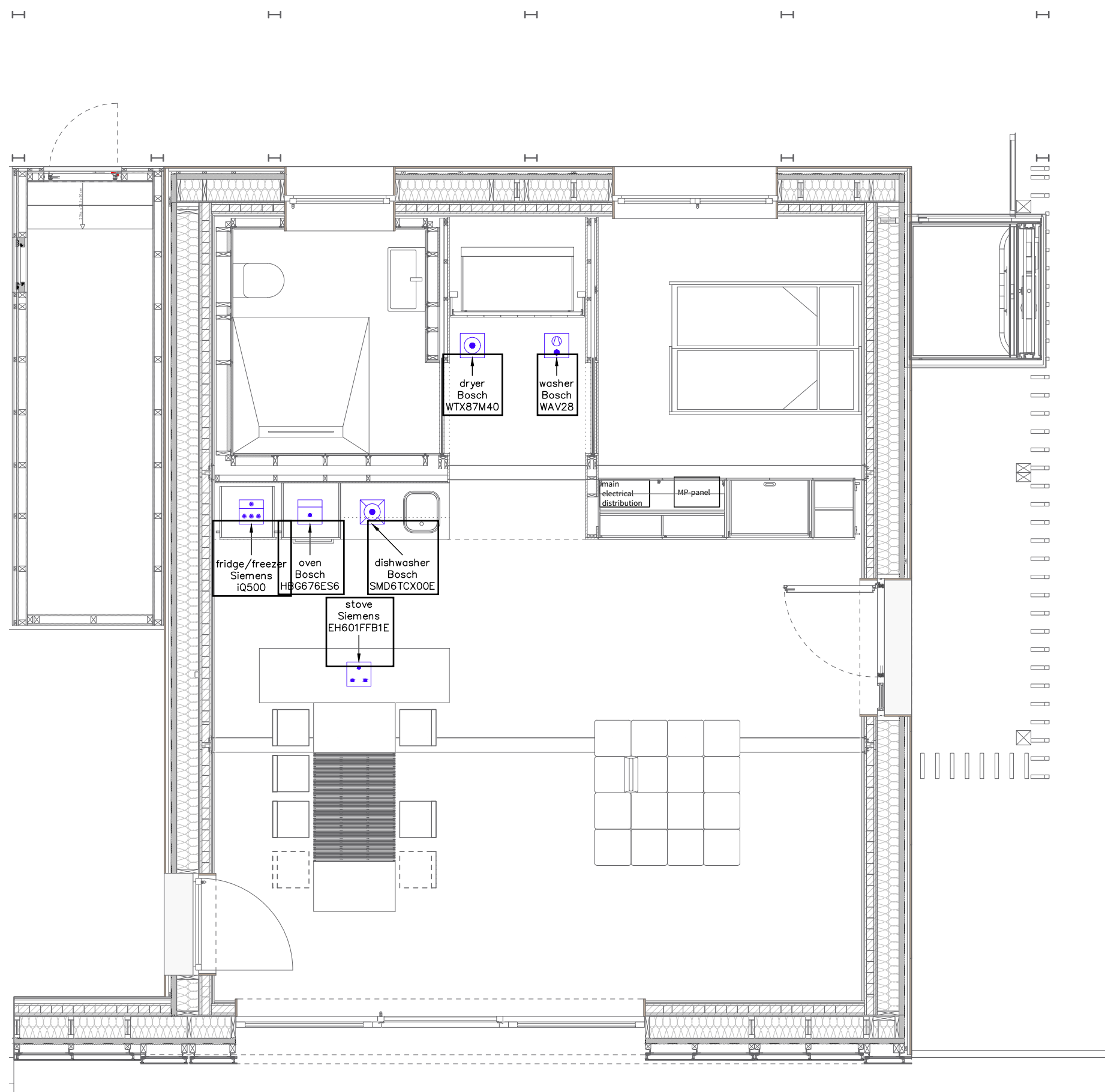


Scale
n.t.s. (A3 420x297)

Phase
D#6

Electricity meters' connection

ID-4001

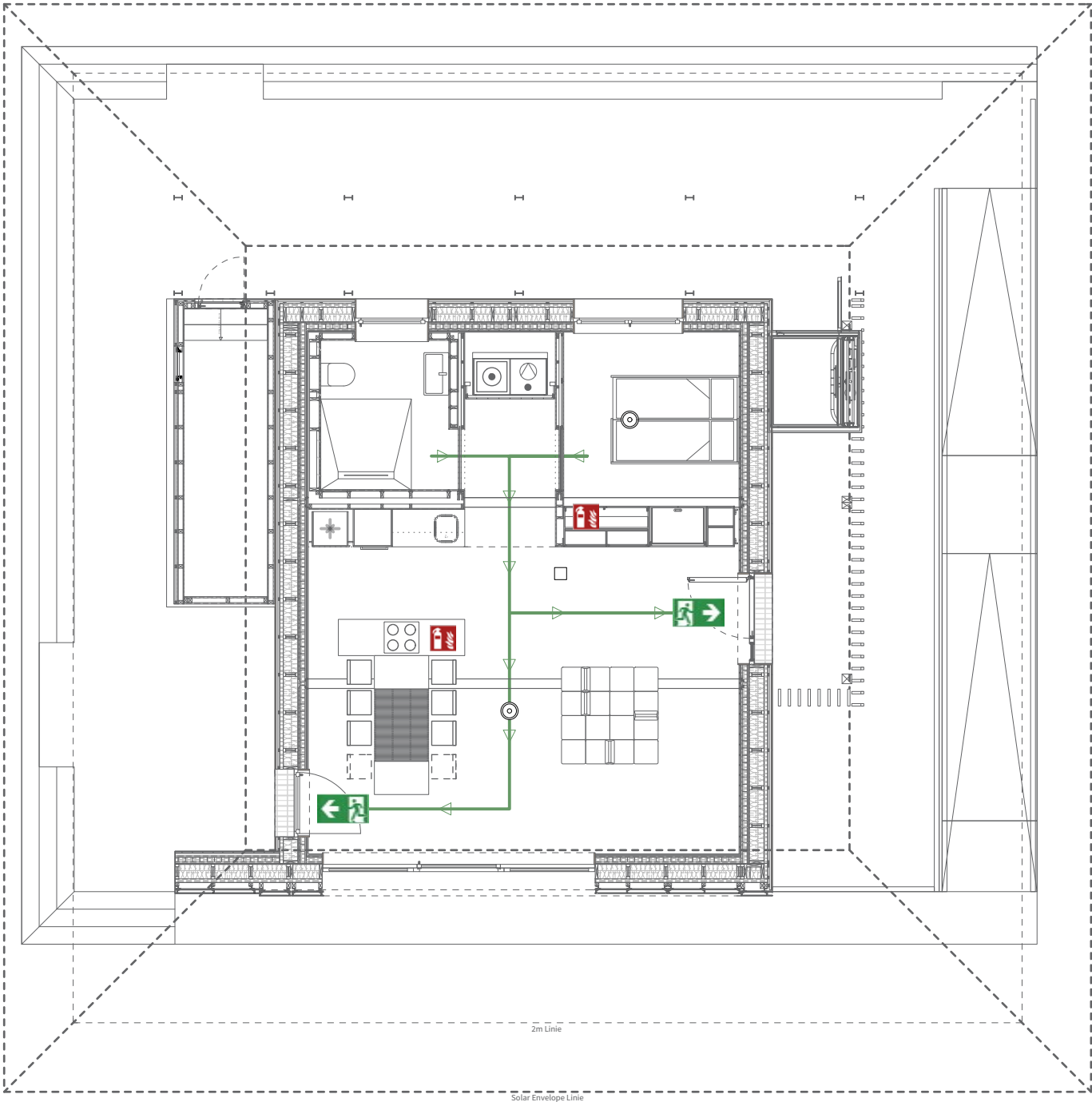


General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Health & Safety	HS
Public Tour	PT

- Legend
-  fridge & freezer
 -  dishwasher
 -  oven
 -  stove
 -  washer
 -  dryer

Fire Protection (FP)





General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

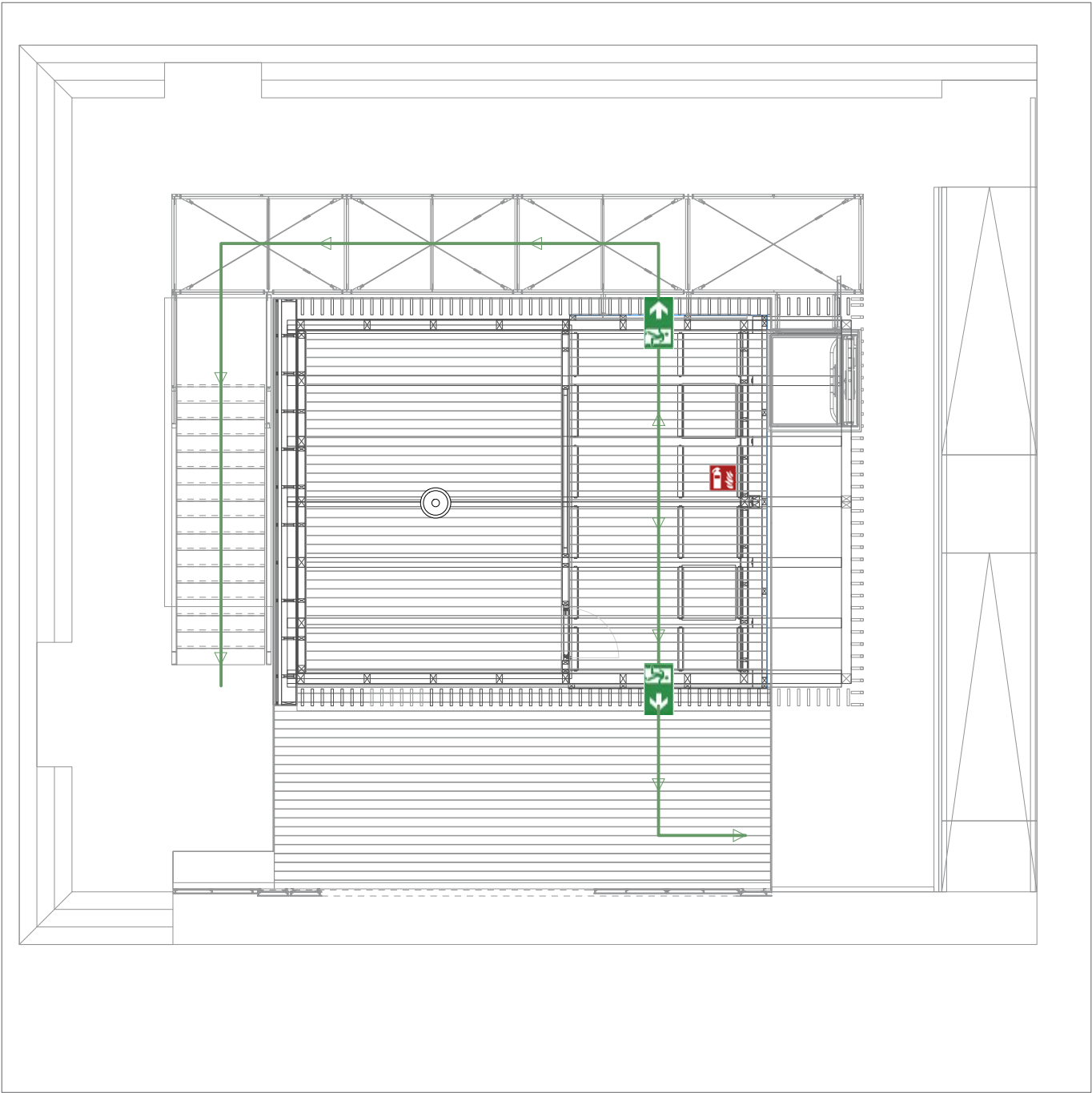
-  Escape direction
-  Fire extinguisher
-  smoke detector

Scale 1:100 (A3 420 x 297) Phase D#6

Drawing Content - HDU
Fire Protection Plan
first floor

FP-0001



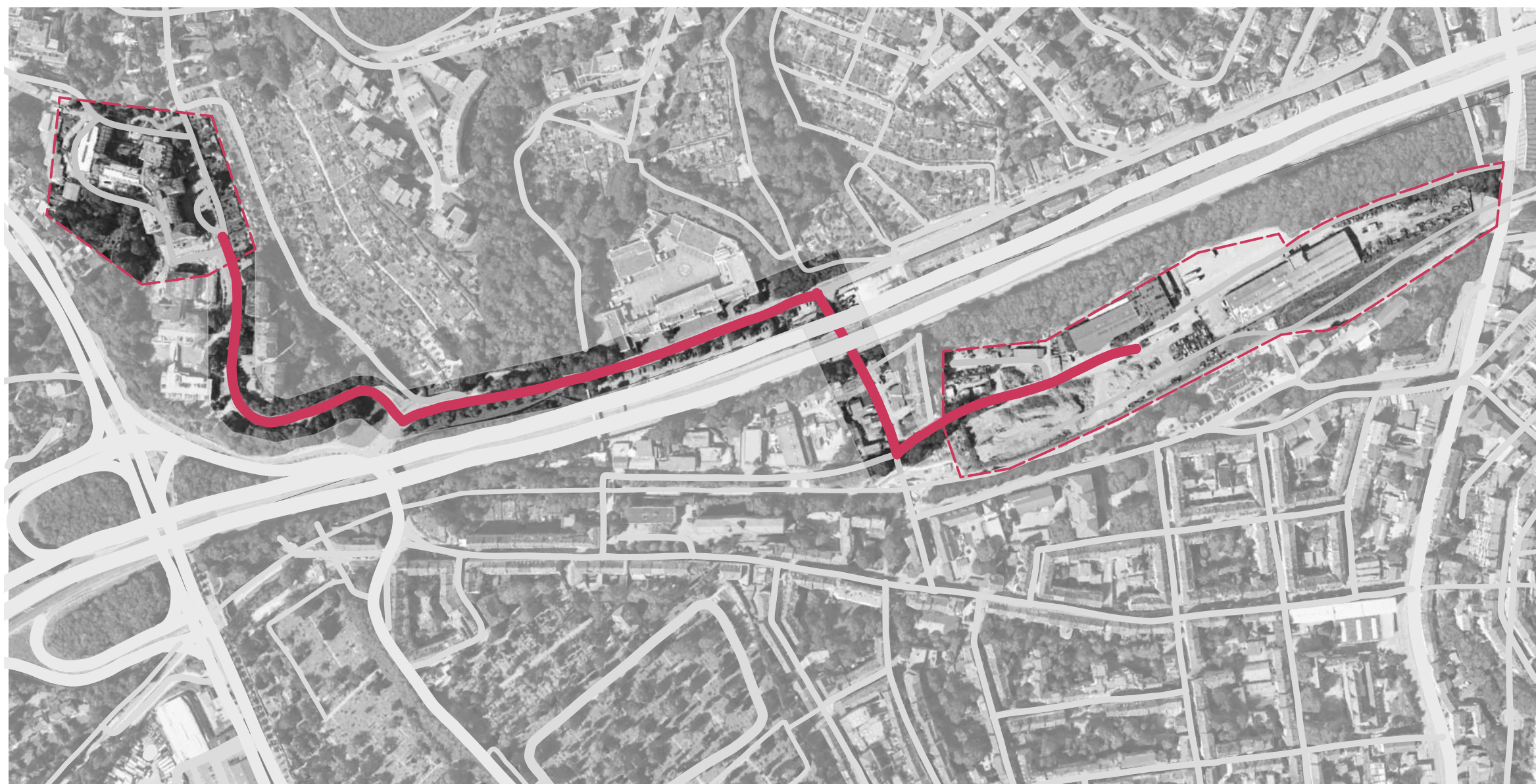


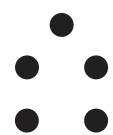
General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

-  Escape direction
-  Fire extinguisher
-  smoke detector

Health and Safety (HS)





 **solar decathlon europe** 21
WUPPERTAL GERMANY ...goes urban!

General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
Site Operations	SO
Fire Protection	FP
Healthy & Safety	HS
Public Tour	PT

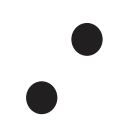
Route to Hospital 
SDE Campus Area & Hospital Area 



Hospital
AGAPLESION
BETHESDA
Hainstraße 35



1.2 kilometer
4 minutes

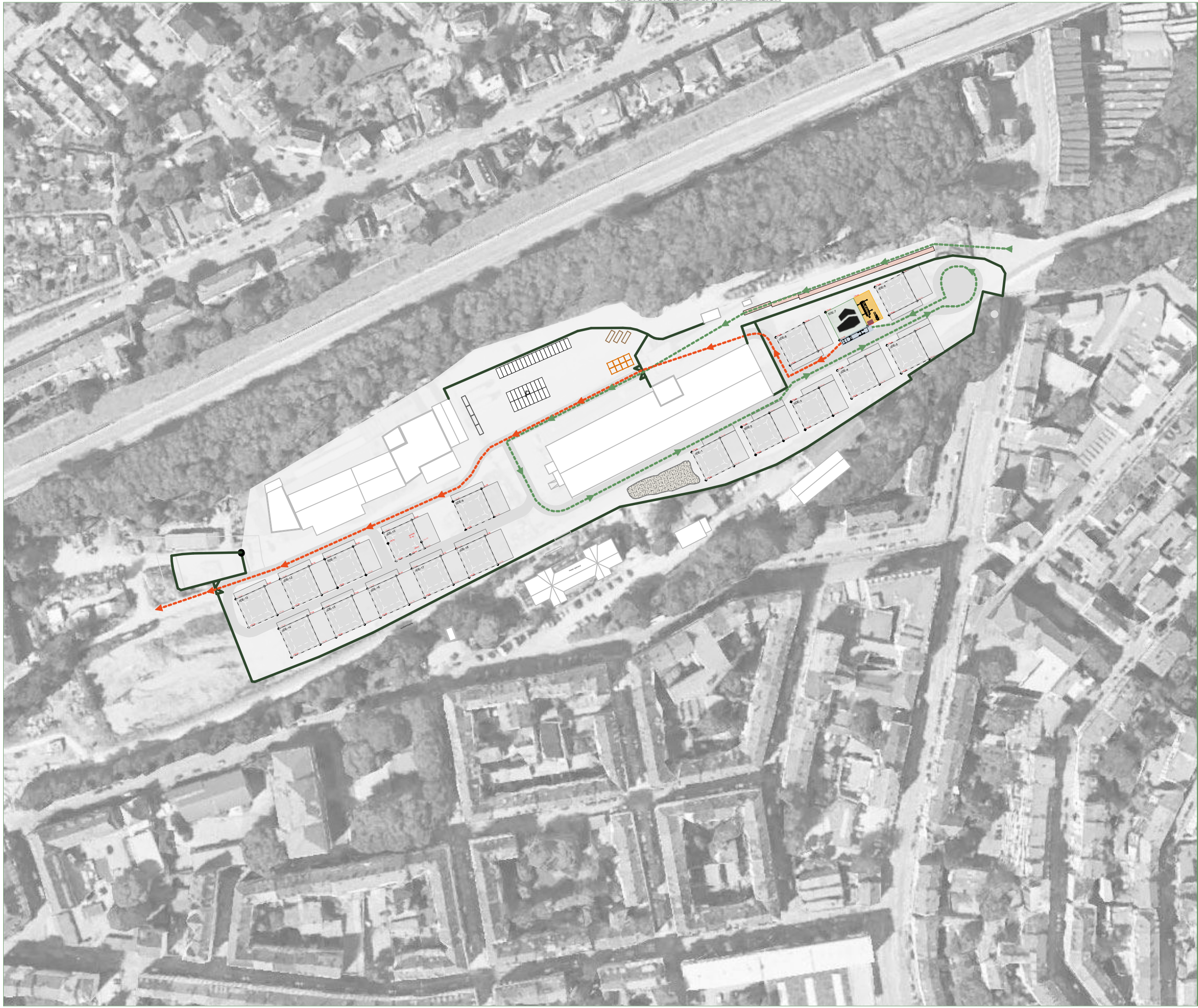
 **solar decathlon europe** 21
WUPPERTAL GERMANY ...goes urban!

Solar Campus
Juliusstraße 12

Scale **no scale** (A3 420 x 297) Phase **D#6**

Drawing Content - HDU
Way from SDE Campus to Hospital

HS-0001 



General	GE
Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
Electrical	EL
Photovoltaic System	PV
Teleco. & Build. Aut. System	BAS
Instrumentation Drawings	ID
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Healthy & Safety	HS
Public Tour	PT

Fence	
Logistic Area	
prototyp	
temorary waiting area for Truks	
Truckroute delivery	
Truckroute out	

Scale	Phase
1:2000 (A3 420 x 297)	D#6

Healthy & Safety
**Site Plan Solar Campus
with Truckroute**

GENERALLY NECESSARY INFORMATION AND WARNING SIGNS

 Meeting Point	 Fire extinguisher	 wear gloves	 Electricity
 Escape direction	 No smoking	 wear helmet	 Forklift truck
 Escape direction	 No unauthorised persons allowed beyond this point	 wear safety shoes	 Truck
 First Aid	 Schritt fahren Step drive	 weat Safety waistcoat	 Suspended load
 defibrillator	 Rubbish bin	 Lift correctly	 Mind the gap

CRANE OPERATING SIGNAL GUIDE

 Attention !	 Lift up !	 Depart !	 Drive right !
 Stop !	 Down !	 Come closer !	 Drive left !
 Stop - Danger !	 Slowly !	 Remove !	 Display of reduction distance !

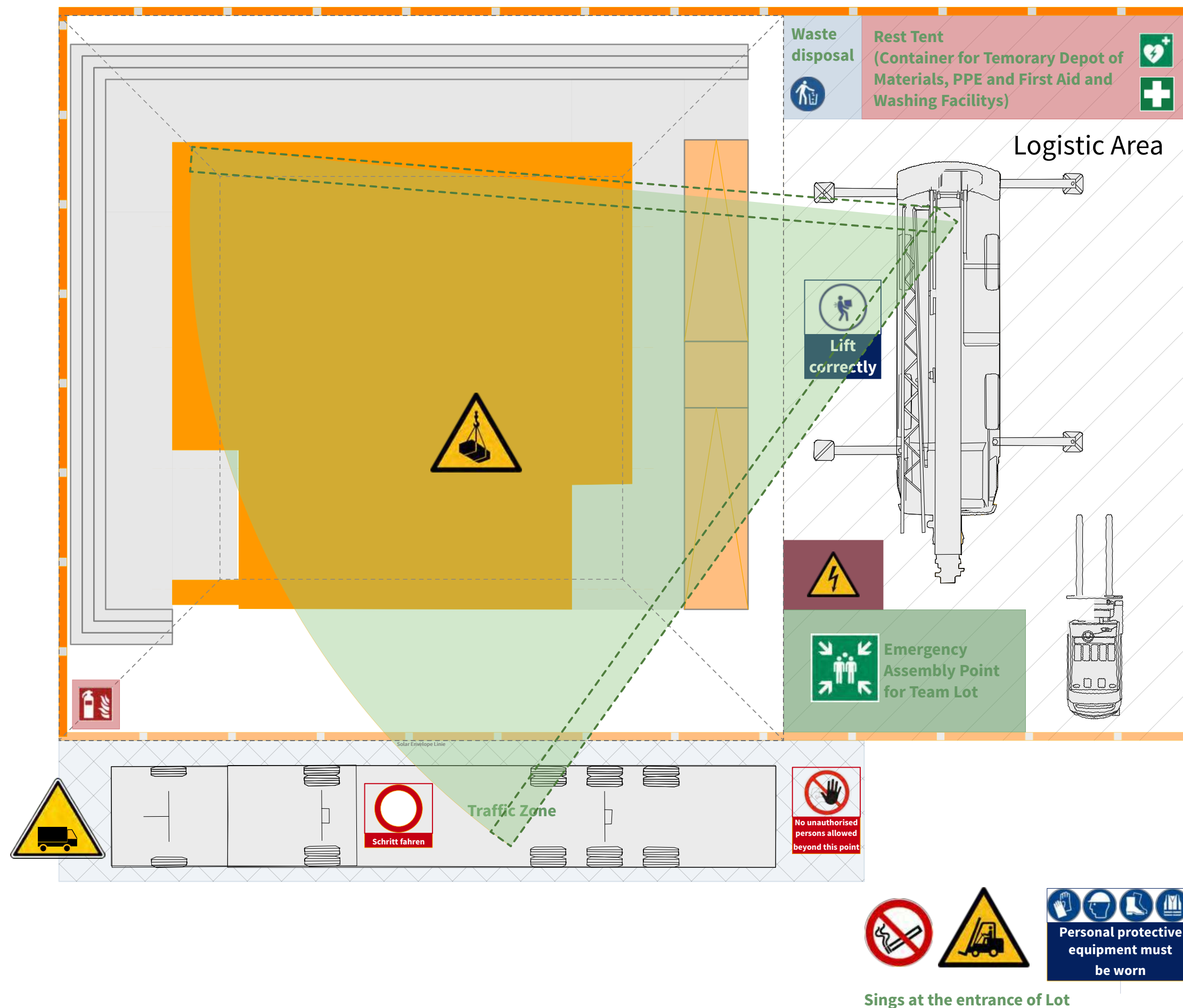
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Architecture	AR
Interiors	IN
Structural	ST
Plumbing	PL
Solar Water Heating	SW
Mechanical	ME
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Photovoltaic System	PV
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30 construction workers work divided in two shifts

Plan	Task Name	Risk	Prevention checklist
HS-1003	Site setup (Container, Fencing, etc.)	Bumping, squeezing	Unhurried working methods and dear communication, wear PPE
HS-1004 HS-1005	Laying the foundation (steel plates)	Squeezing, knocked by objects or tools	Wear PPE, clear communication, proper tools, check tools
HS-1005 HS-1006	Unloading the wooden module #1 from the truck with mobile crane	Bumping, squeezing	Safety briefing, be outside of crane radius, minimum workers on site, wear PPE, use tools properly, clear communication
HS-1006	Positioning the ground floor module (#1) on the foundation and fasten and connect it to the foundation	Bumping, squeezing, knocked by objects or tools, fall from ladder	Safety briefing, be outside of crane radius, minimum workers on site, wear PPE, use tools properly, clear communication
HS-1007	Unload the wooden module #3 from the truck with mobile crane	Bumping, squeezing	Safety briefing, be outside of crane radius, minimum workers on site, wear PPE, use tools properly, clear communication
HS-1007	Positioning the ground floor module (#2) on the foundation and fasten and connect it to the foundation and to wooden module #1	Bumping, squeezing, knocked by objects or tools, fall from ladder	Safety briefing, be outside of crane radius, minimum workers on site, wear PPE, use tools properly, clear communication
HS-1008	Unload the wooden module #3 from the truck with mobile crane	Bumping, squeezing	Safety briefing, be outside of crane radius, minimum workers on site, wear PPE, use tools properly, clear communication
HS-1008	Positioning the ground floor module (#3) on the foundation and fasten and connect it to the foundation and to wooden module #2	Bumping, squeezing, knocked by objects or tools	Safety briefing, be outside of crane radius, minimum workers on site, wear PPE, use tools properly, clear communication
HS-1009	Positioning and fastening of external staircase incl. technical room to foundation and wooden module #1	Bumping, squeezing, knocked	Safety briefing, be outside of crane radius, minimum workers on site, wear PPE, use tools properly, clear communication
HS-1009	Positioning the arcade and fastening to wooden module #1 and #2	Bumping, squeezing, knocked by objects or tools	be outside of crane radius, minimum workers on site, wear PPE, clear communication, climbing equipment
HS-1010 HS-1011	Positioning the first floor modules (#4-#5) on the ground floor modules #1, #2 and fasten and connect them together	Squeezing	Unhurried working methods and clear communication, wear PPE, climbing equipment, use tools properly
HS-1011	Building platform construction	Squeezing	Unhurried working methods and clear communication, wear PPE, climbing equipment, use tools properly
HS-1012 HS-1013	Electrical works	Danger of electrical accident	Only professionals, observe the 5 safety rules, wear PPE, safety briefing, proper tools, check equipment
HS-1012 HS-1013	Sanitary works	Squeezing, injury due to sharp objects	Only professionals, wear PPE, proper tools, check equipment



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Arcade	
Platform	
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2. Escaperoute	

Scale **1:100** (A3 420 x 297) Phase **D#6**

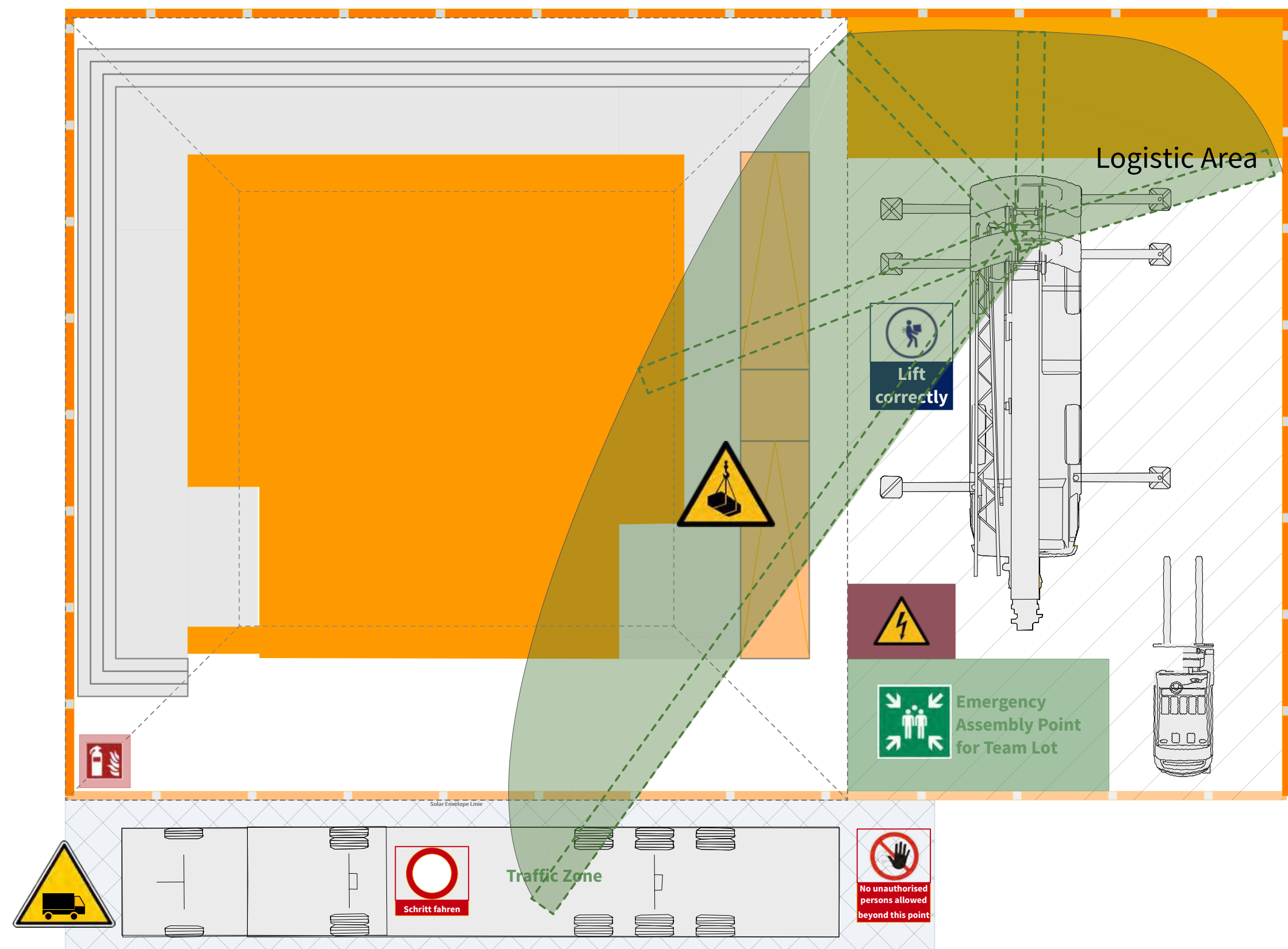
Drawing Content - HDU
Crane radius

HS-1003



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Sings at the entrance of Lot

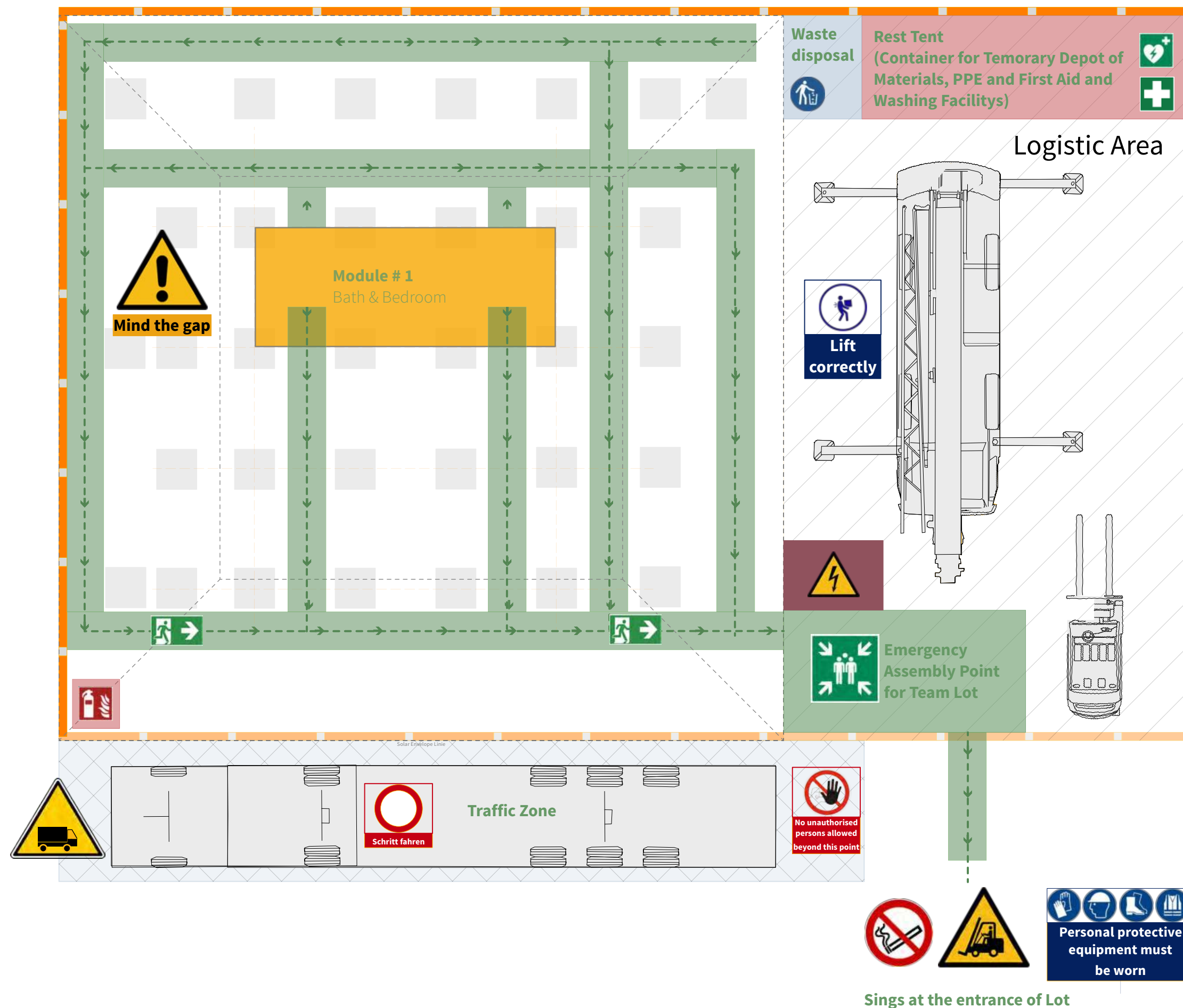
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Drawing Content - HDU
Crane radius



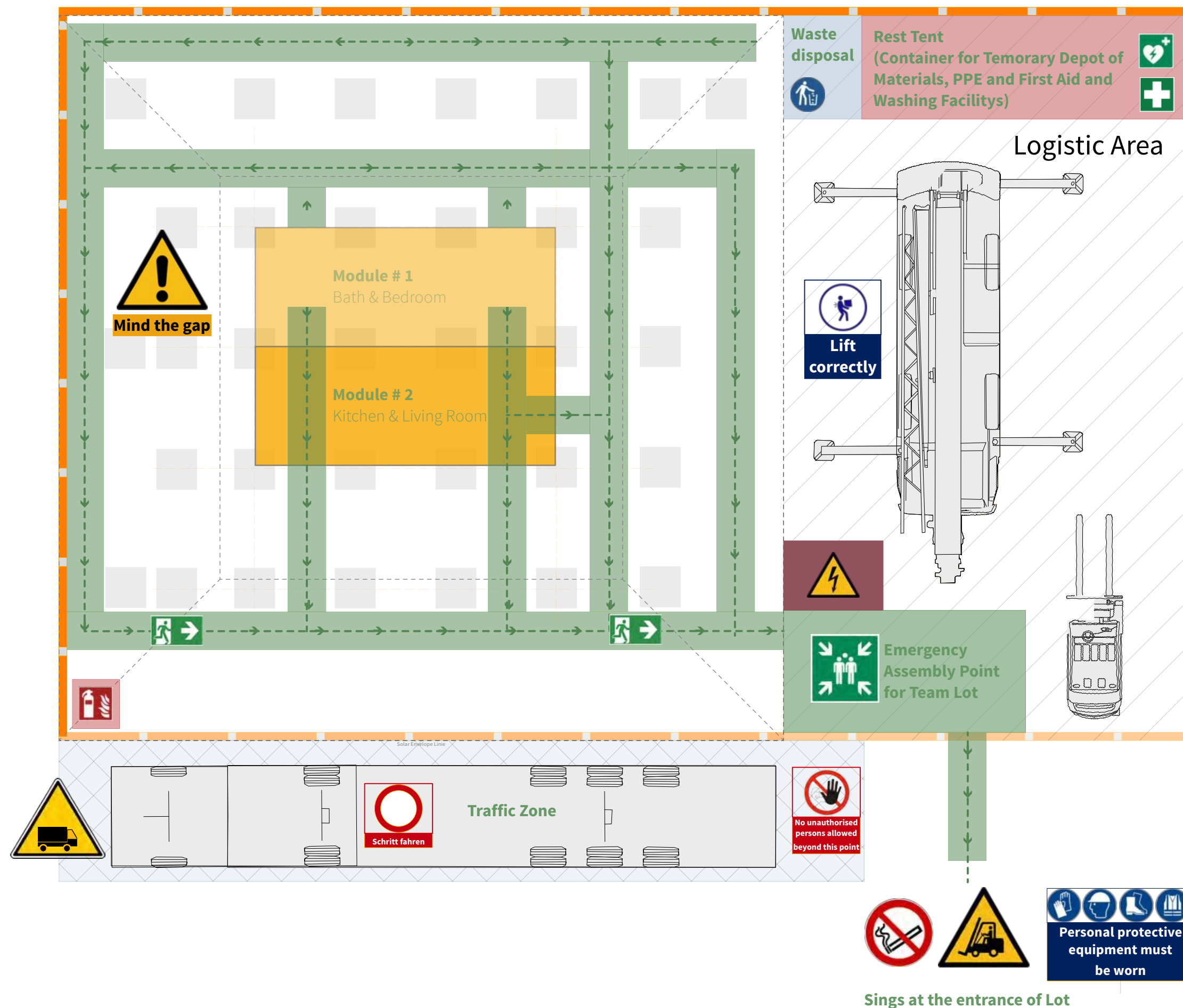
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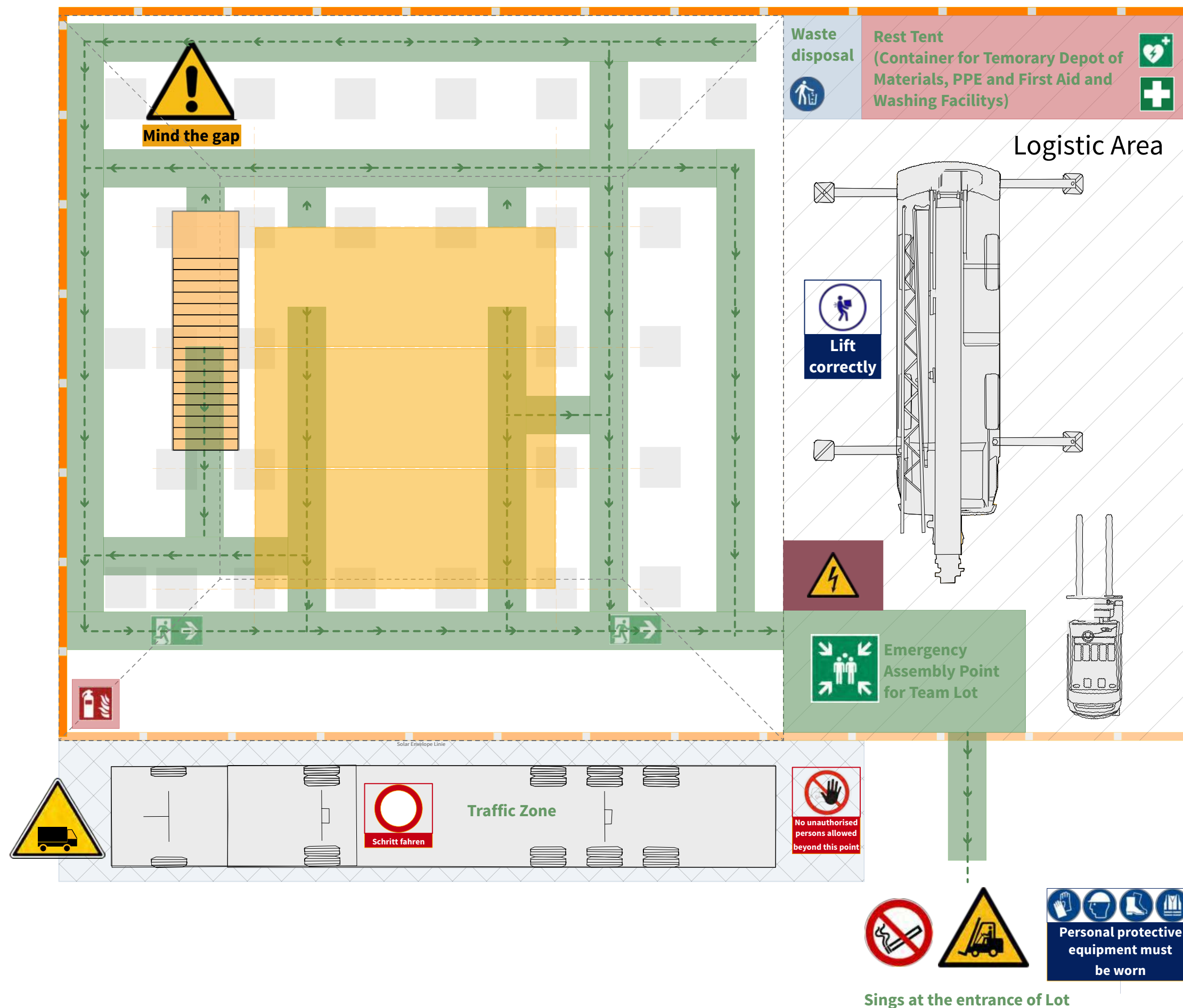
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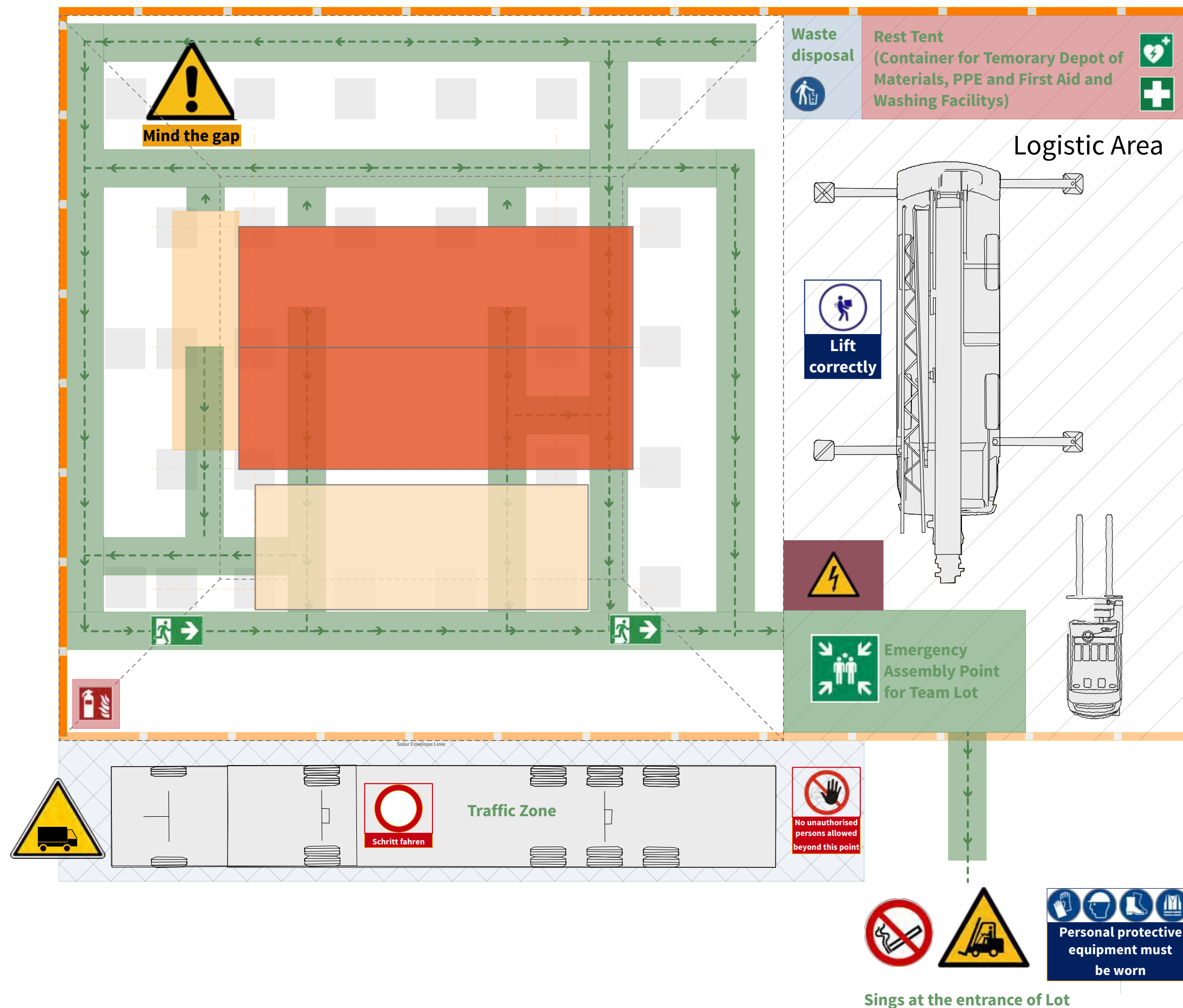
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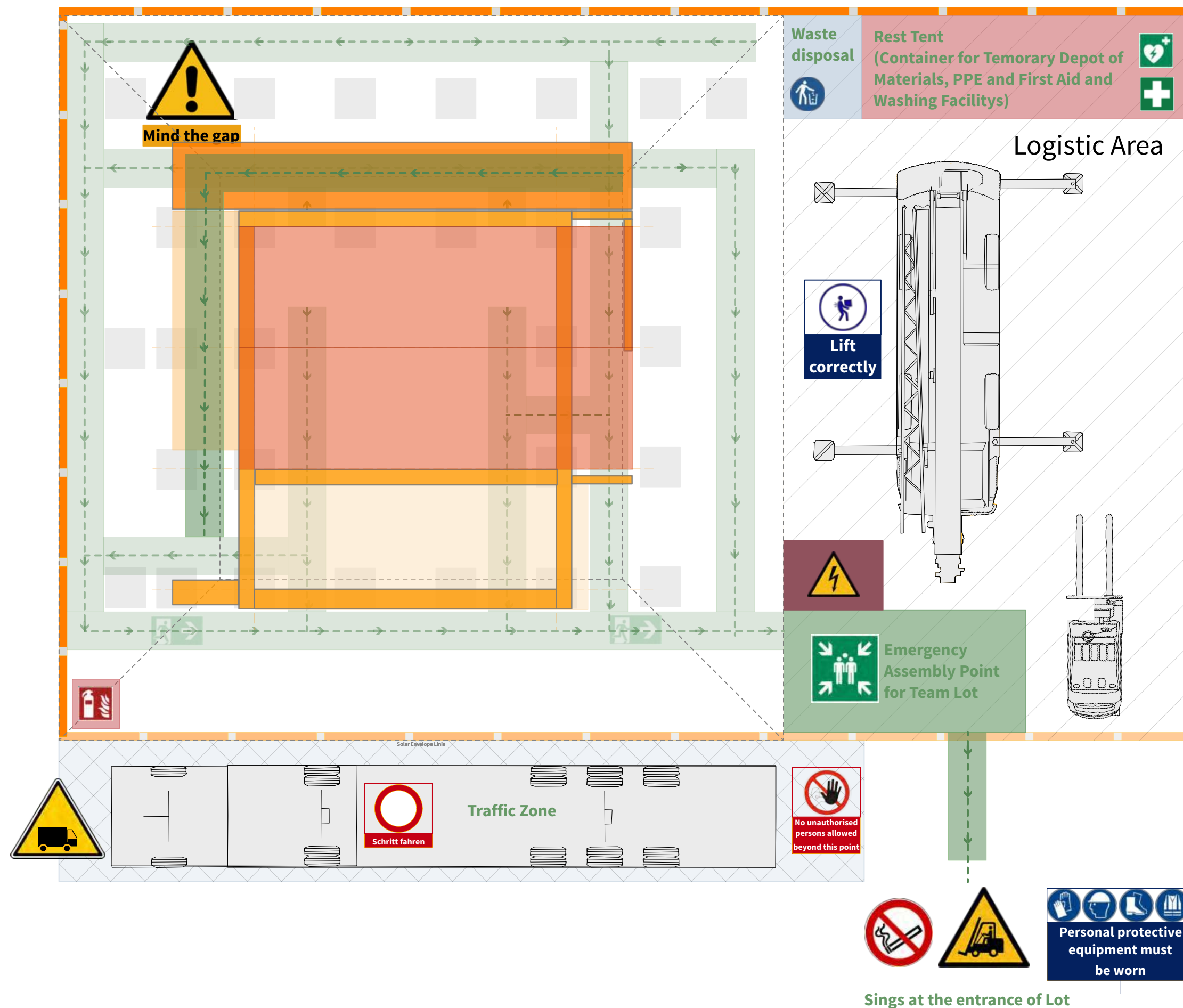
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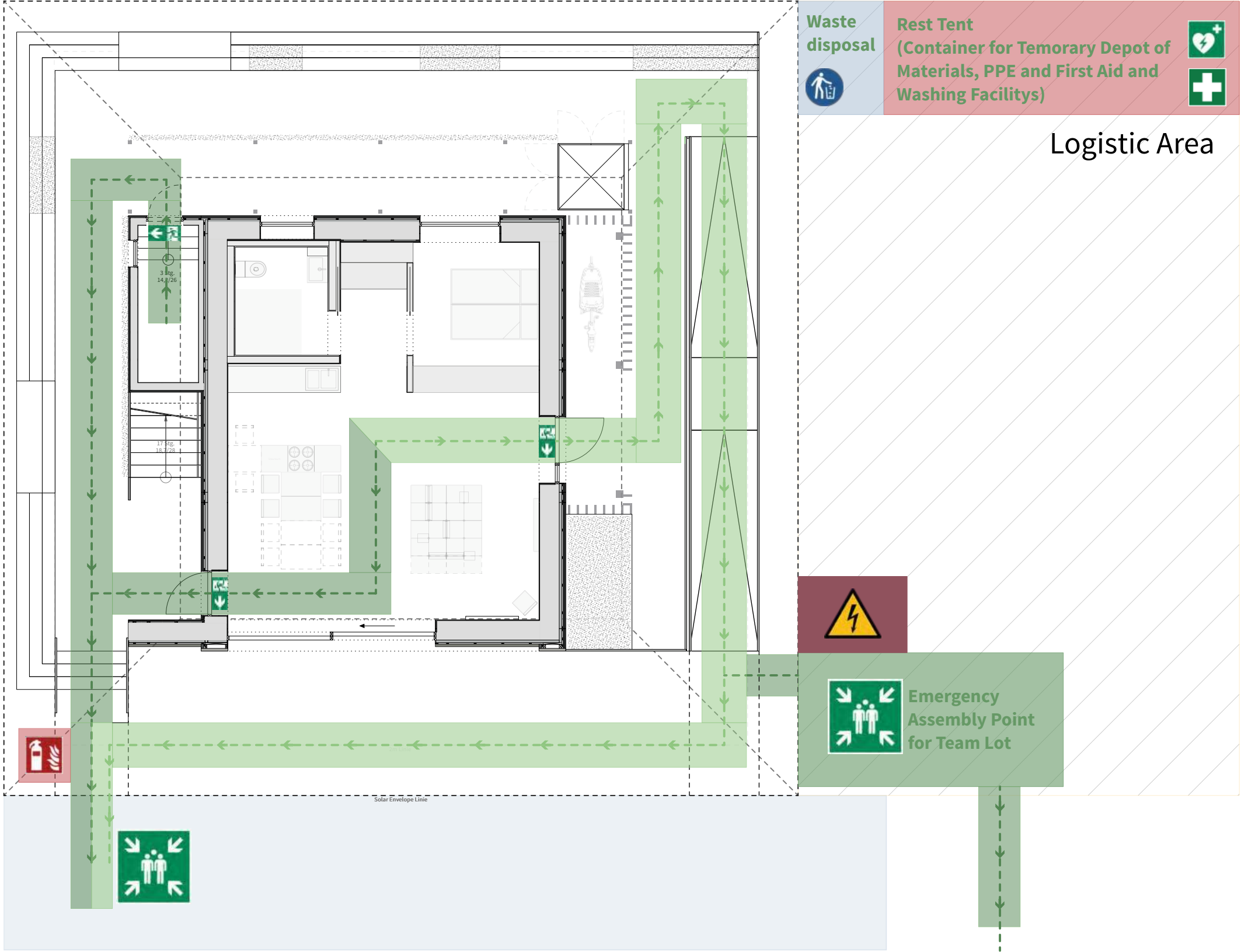
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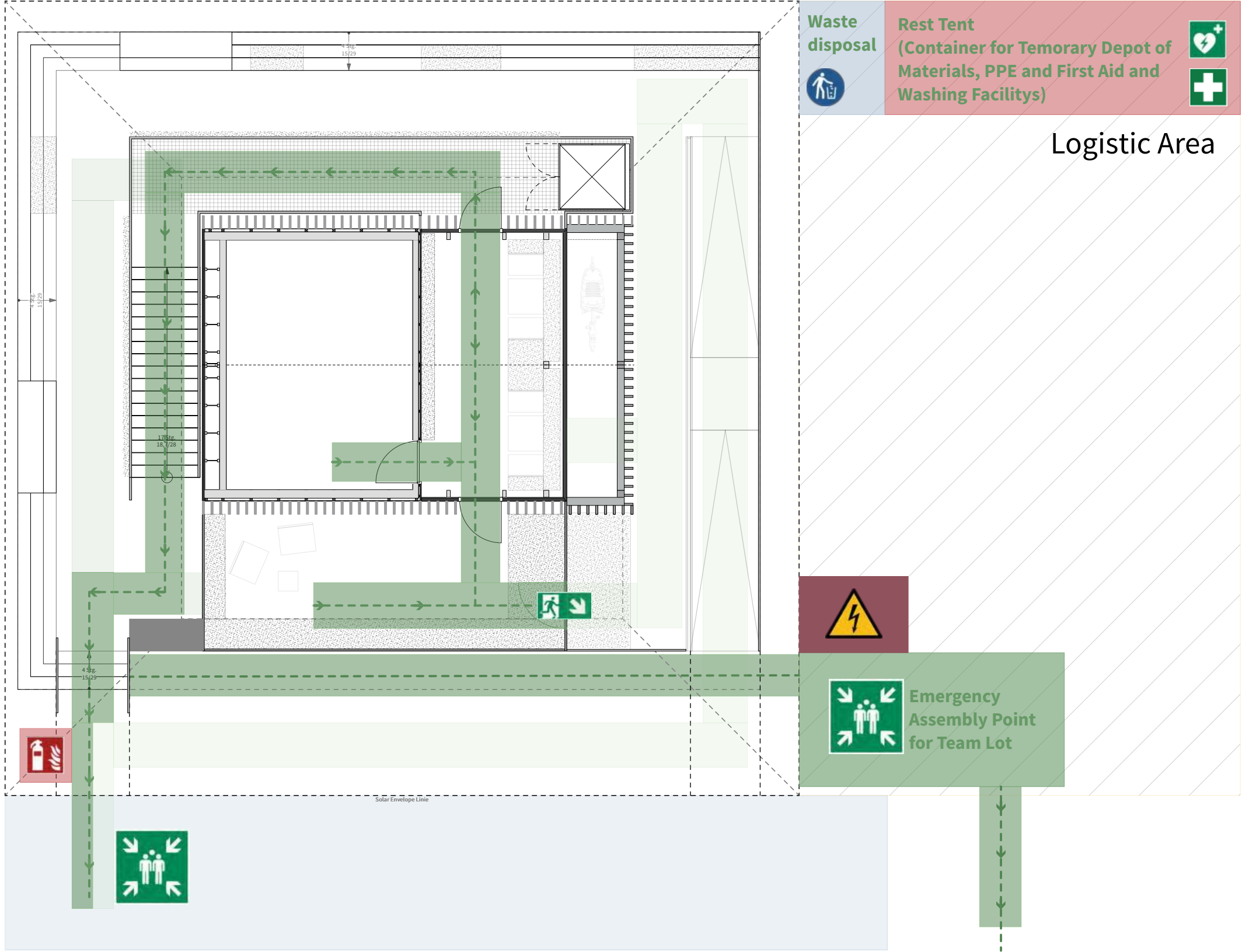
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Public Tour (PT)



OUTSIDE and START

- 1. Check-In
- 2. Insights of levelup
- 3. Modular construction
- 4. Sustainability / innovation
- 5. Cargo bike

INSIDE

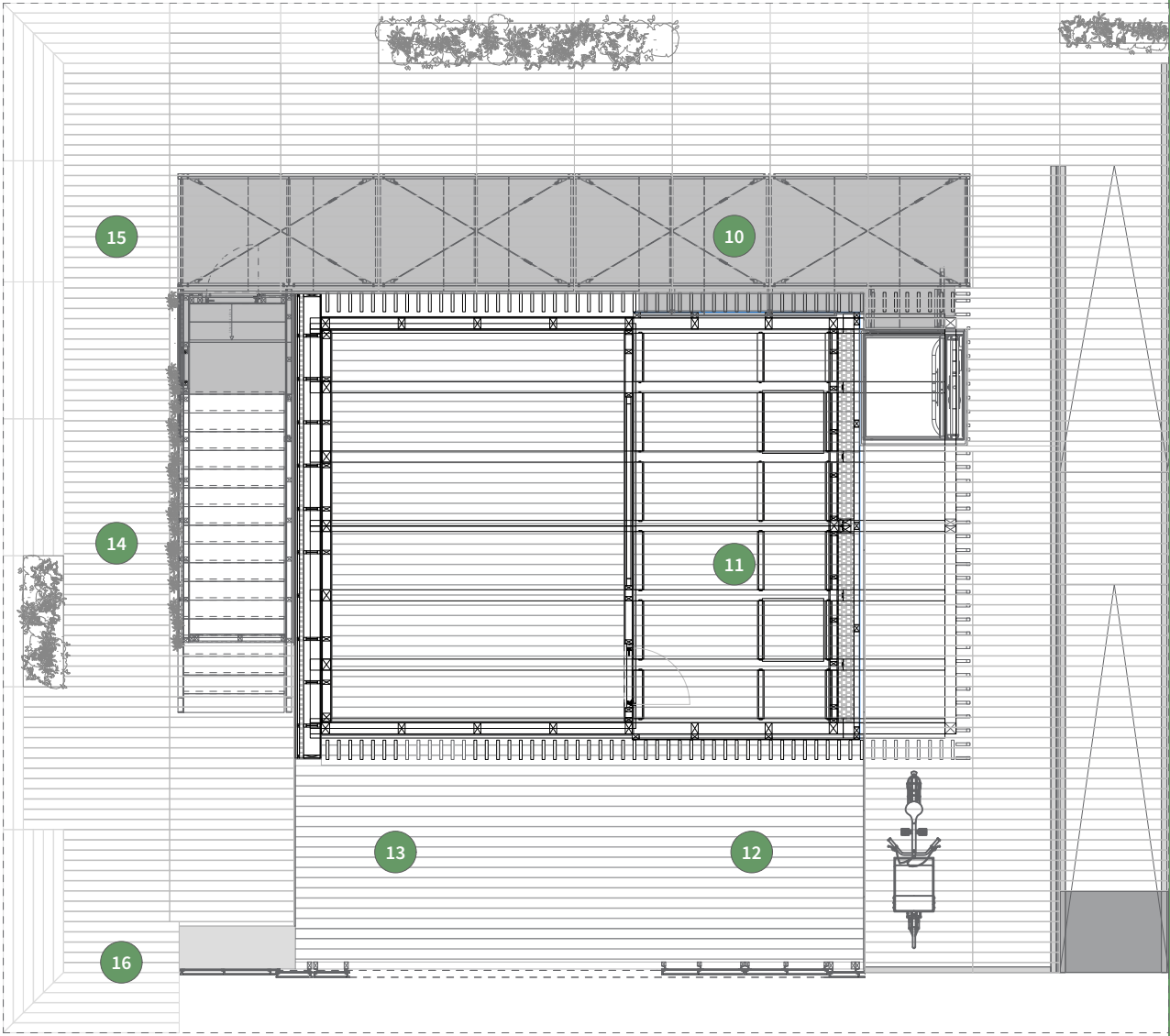
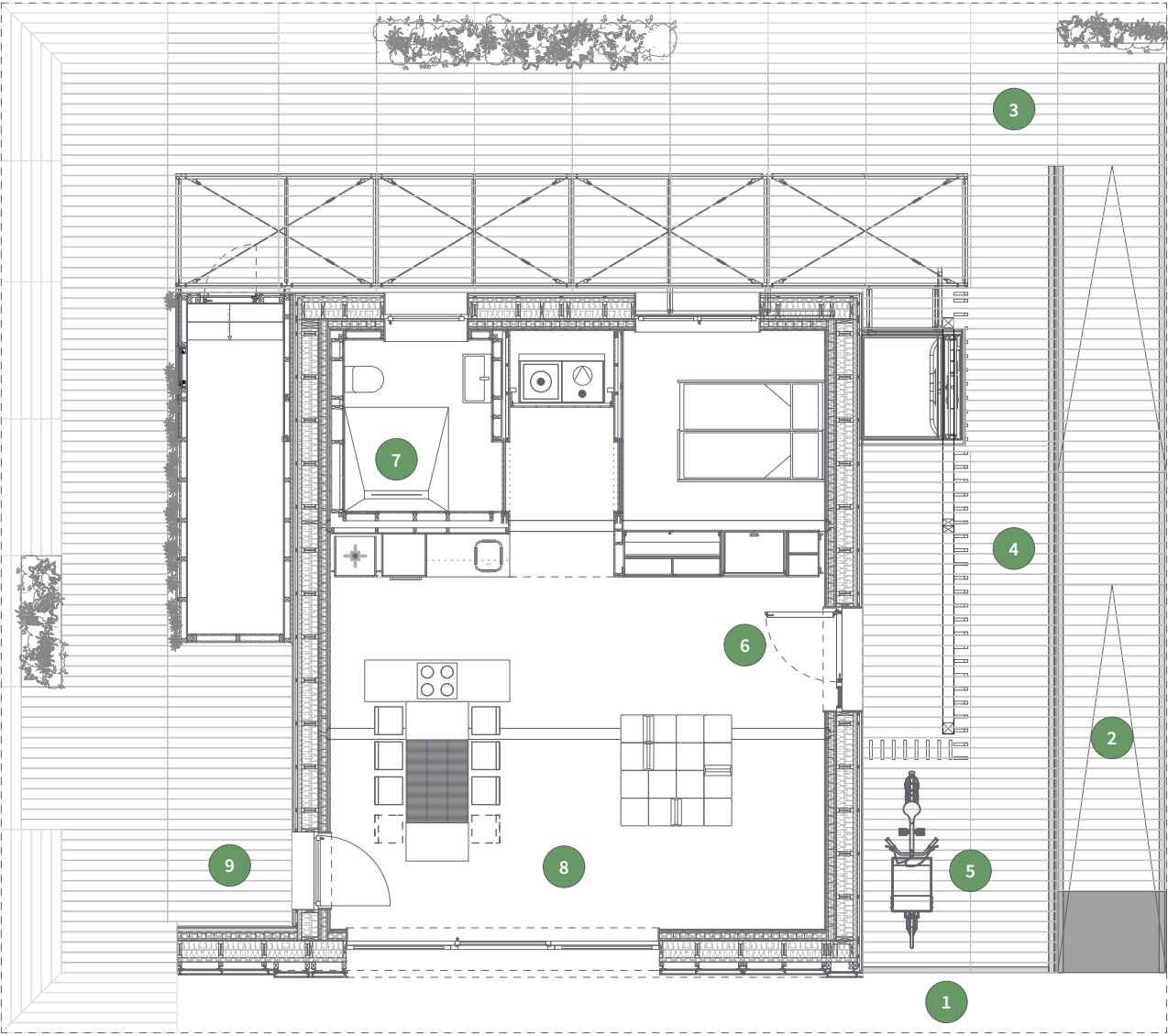
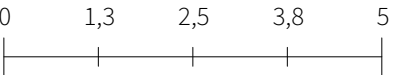
- 6. Modularisation of the rooms
- 7. Bathroom
- 8. interior design of kitchen, living, work (incl. lighting)
- 9. Facade

TOP and END

- 10. greening / common areas
- 11. Sustainability and solar energy
- 12. Bar, lounge and viewing point
- 13. Urban mobility and social community with sharing app
- 14. Energy/technology room
- 15. infiltration ditch (as a sub-theme of the technical room)
- 16. Check-Out

 **solar decathlon europe** **21**
WUPPERTAL GERMANY ...goes urban!

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Scale **1:100** Phase **D#6**

Drawing Content - HDU
Site accessibility

OUTSIDE and START

1. Check-In
2. Insights of levelup
3. Modular construction
4. Sustainability / innovation
5. Cargo bike

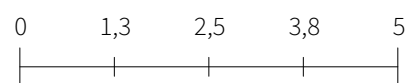
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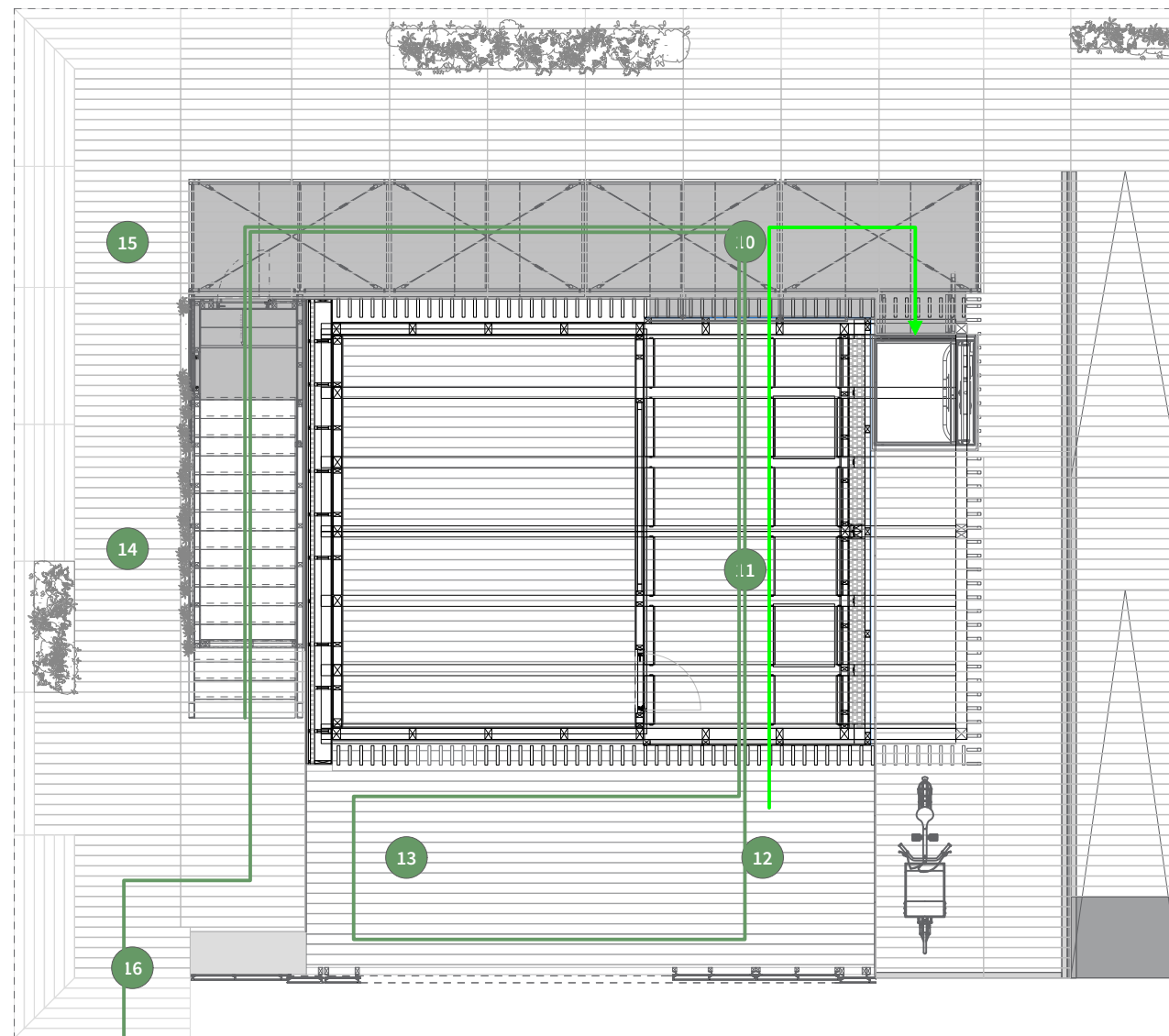
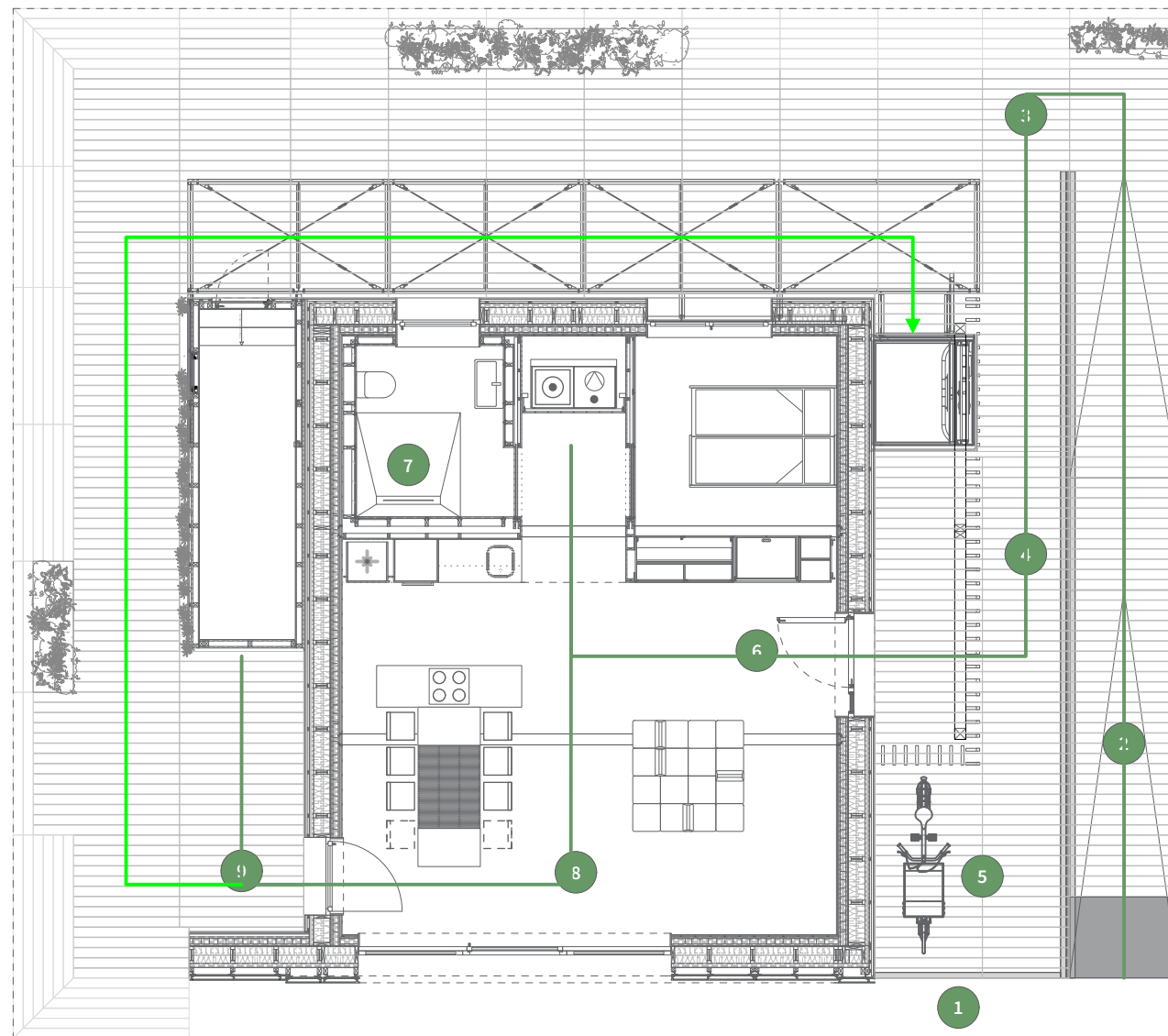
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 Lift and barrier-free access



Scale
1:100

Phase
D#6

Drawing Content - HDU
House Tour Floor Plan

PT-1001