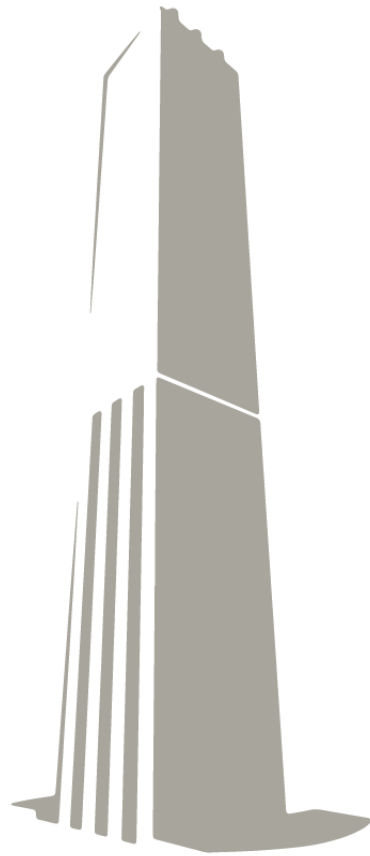


C SEED

IMPLEMENTATION CONCEPT

CSEED144



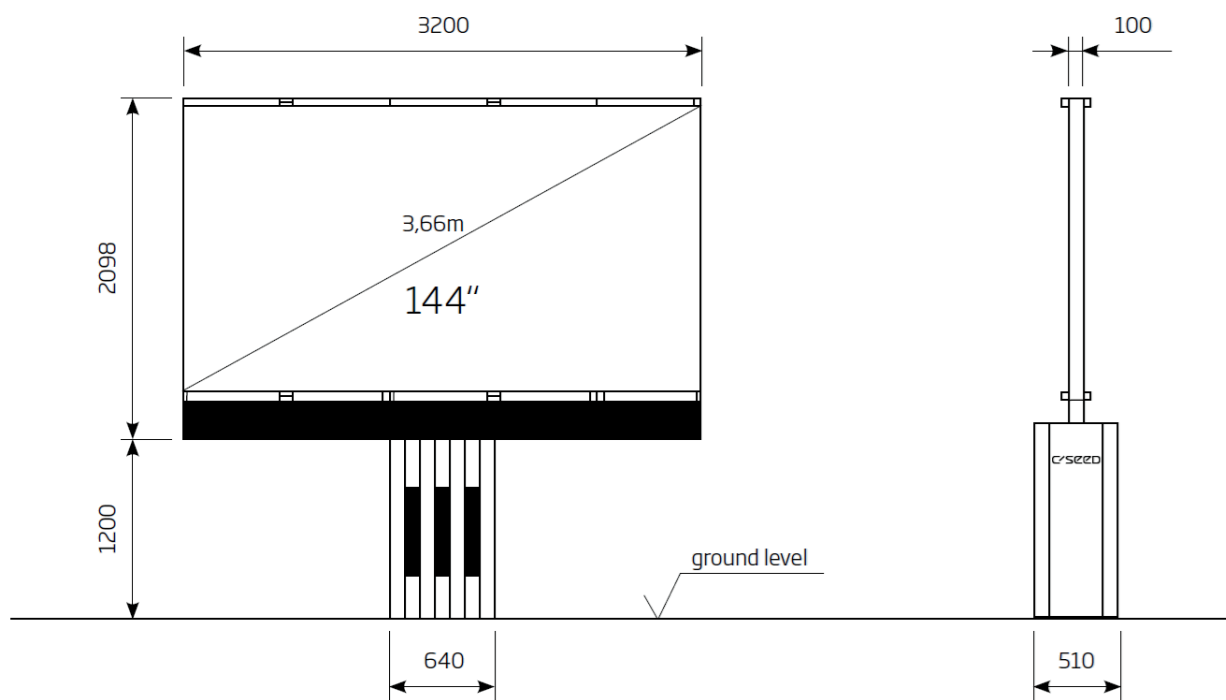


C/SEED

CONTENT

1. CSEED 144
2. Location
3. Equipment & Components
4. Electrical Requirements
5. Responsibilities CSEED
6. Responsibilities Customer

CSEED 144



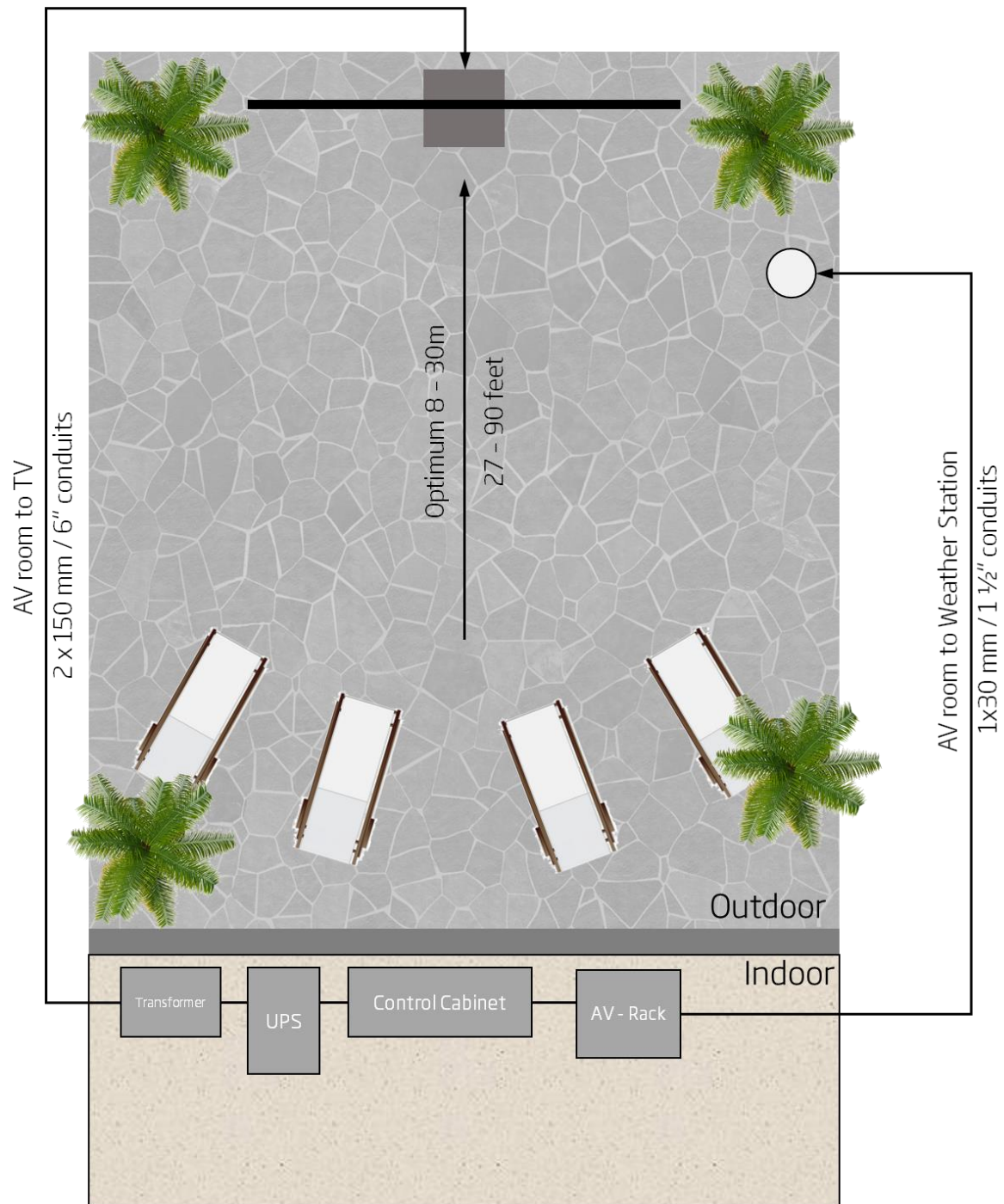
PHYSICAL DIMENTIONS TV

LED TV Size (diagonal)	inch/mm	144 / 3.660
LED TV Size (Width)	inch/mm	176.4 / 3.200
LED TV Size (Height)	inch/mm	94.5 / 2.098
Standard LED Screen (Depth)	inch/mm	4.3 / 100
LED TV Area	sq.ft./m ²	65 / 6
LED TV Weight	kg	890

TV SYSTEM

Brightness	nits	4.500
Brightness Control		Manual
Processing Depth	bit	16 per color
Color Spectrum	Colors	281 trillion
Refresh Rate	Hz	3.840
Lifespan	h	80.000
Contrast Ratio		4.500:1
Color Temperature	K	6.500-9.000
Viewing Angle- Horizontal	degrees	140
Viewing Angle- Vertical	degrees	80
LED Fixings		Back-Service
Operating Temperature Range	°C	-20 to +45
LED Failure Rate		≤0.01% (0% at delivery)
Broadband speaker peak out	W	4 x 250
Broadband speaker frequency range		40 Hz - 25 kHz
Subwoofer peak out	W	1 x 700
Subwoofer frequency range		24 Hz - 200 Hz

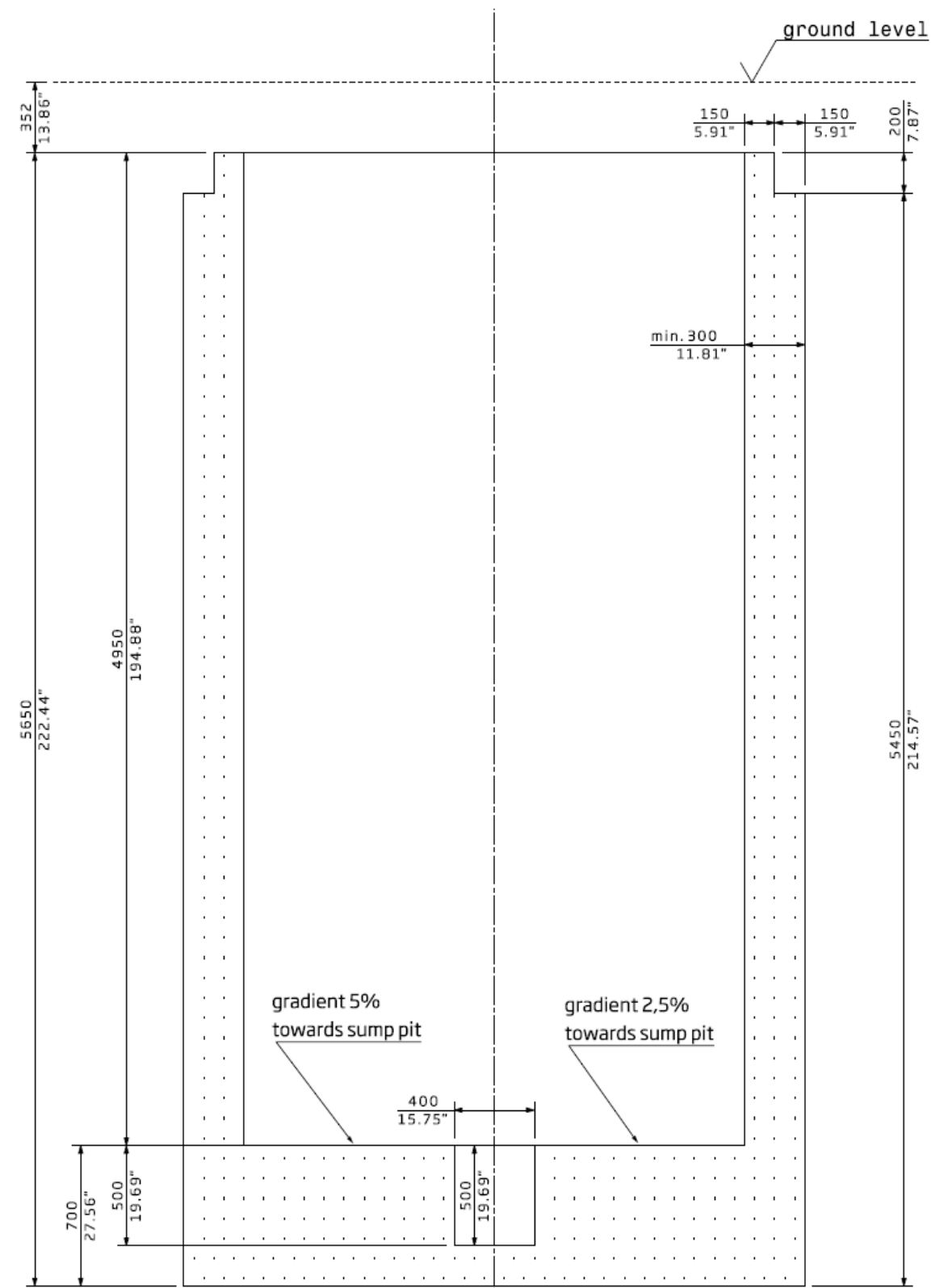
LOCATION



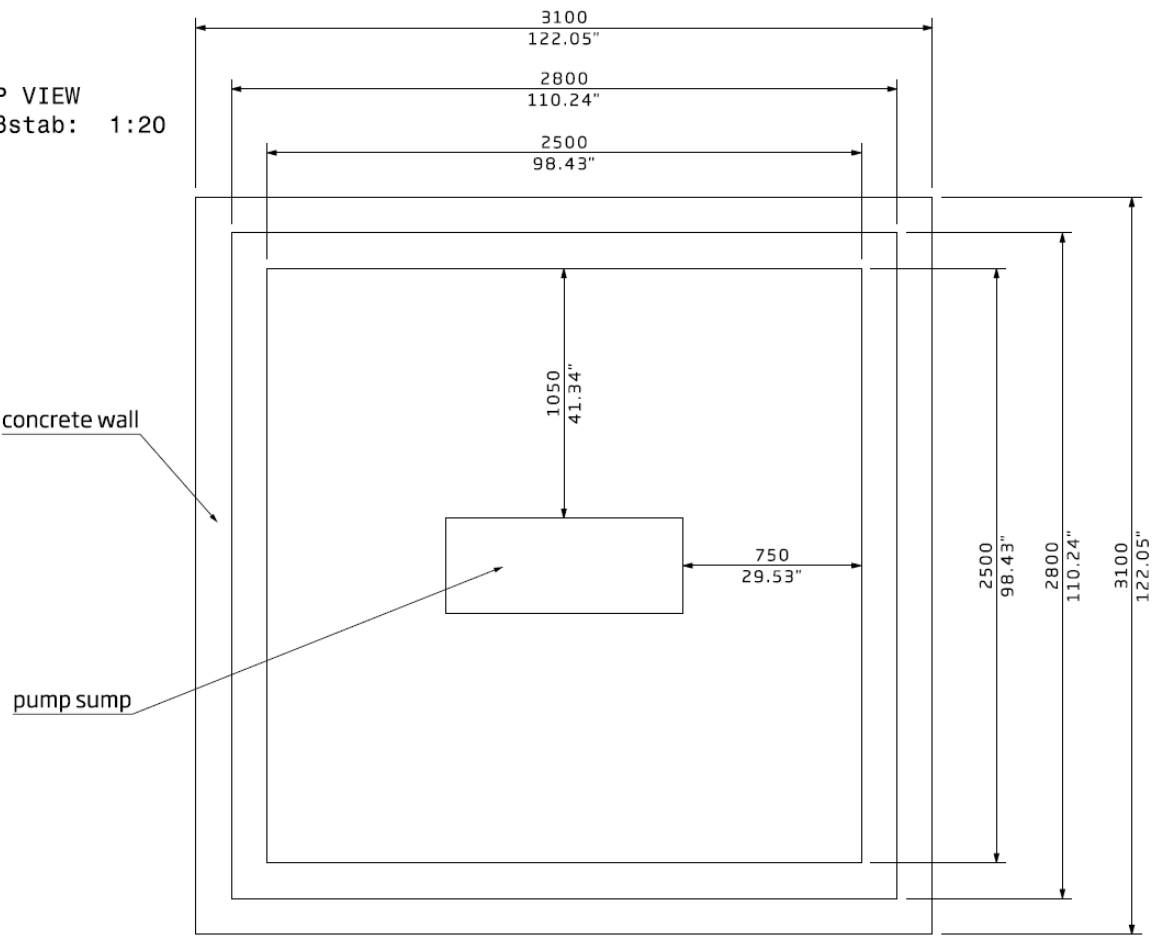
According to exact positions of cabling conduits:

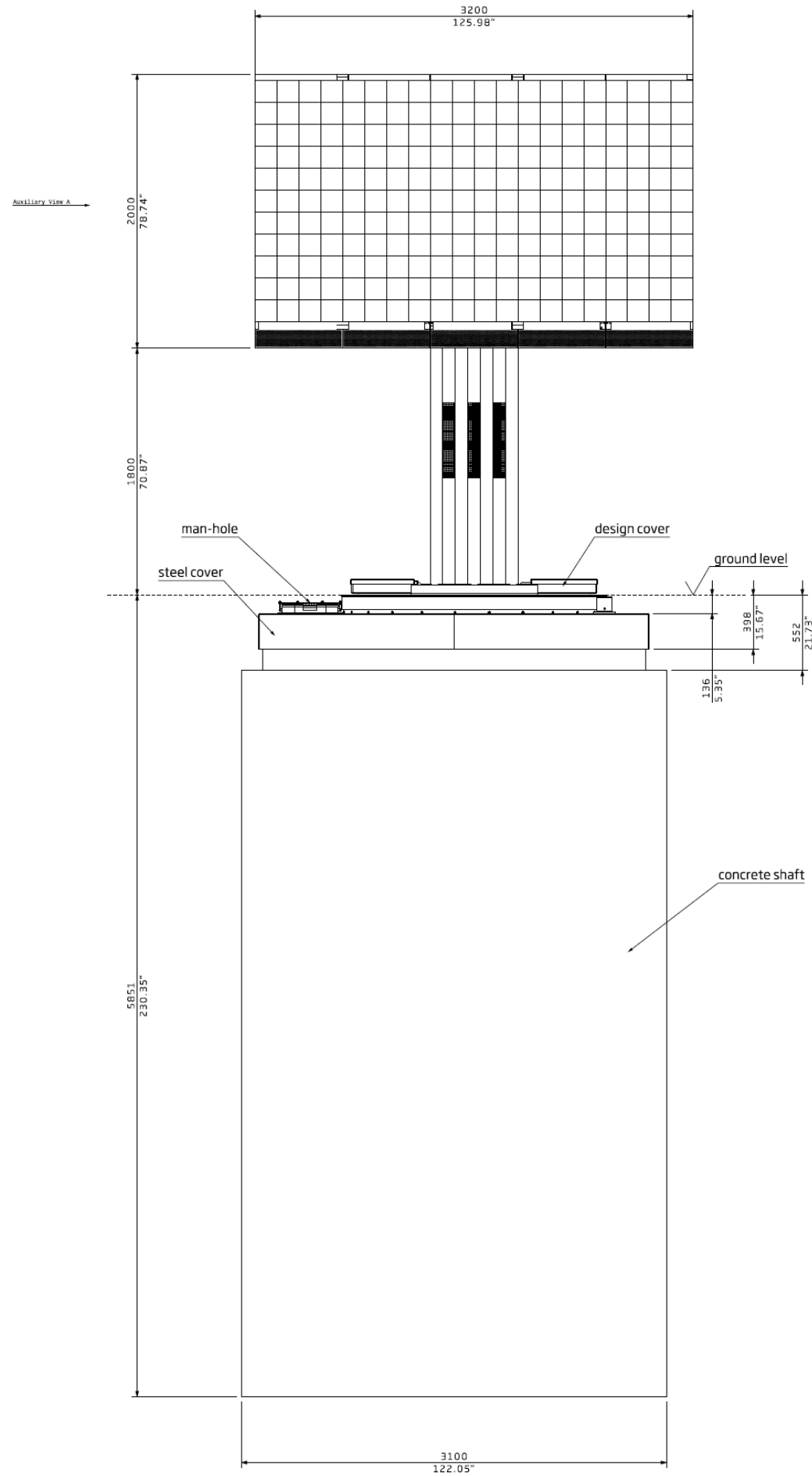
- C SEED 144 to UPS (max. 100 m | 320 feet)
- C SEED 144 to control cabinet unit (max. 100 m | 320 feet)
- C SEED 144 to AV - Rack (max. 100 m | 320 feet)

TV SHAFT

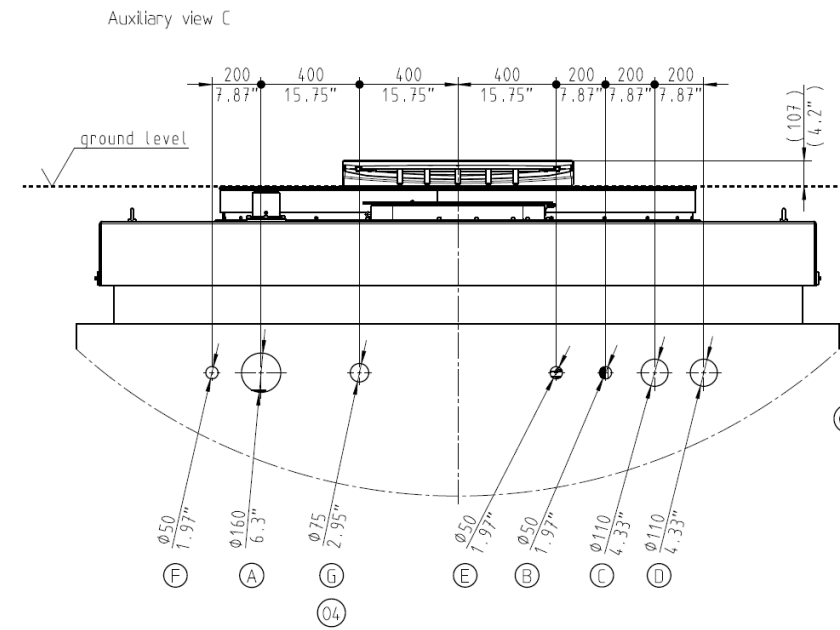
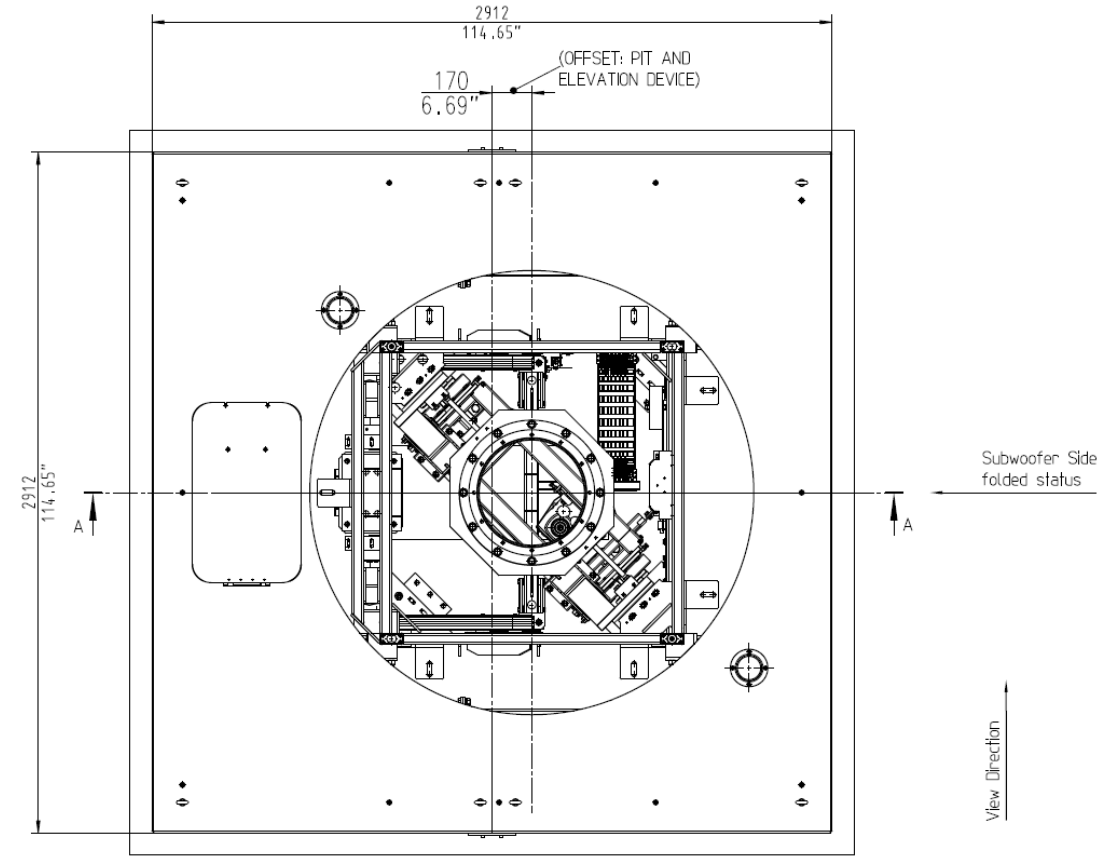


TOP VIEW
Maßstab: 1:20



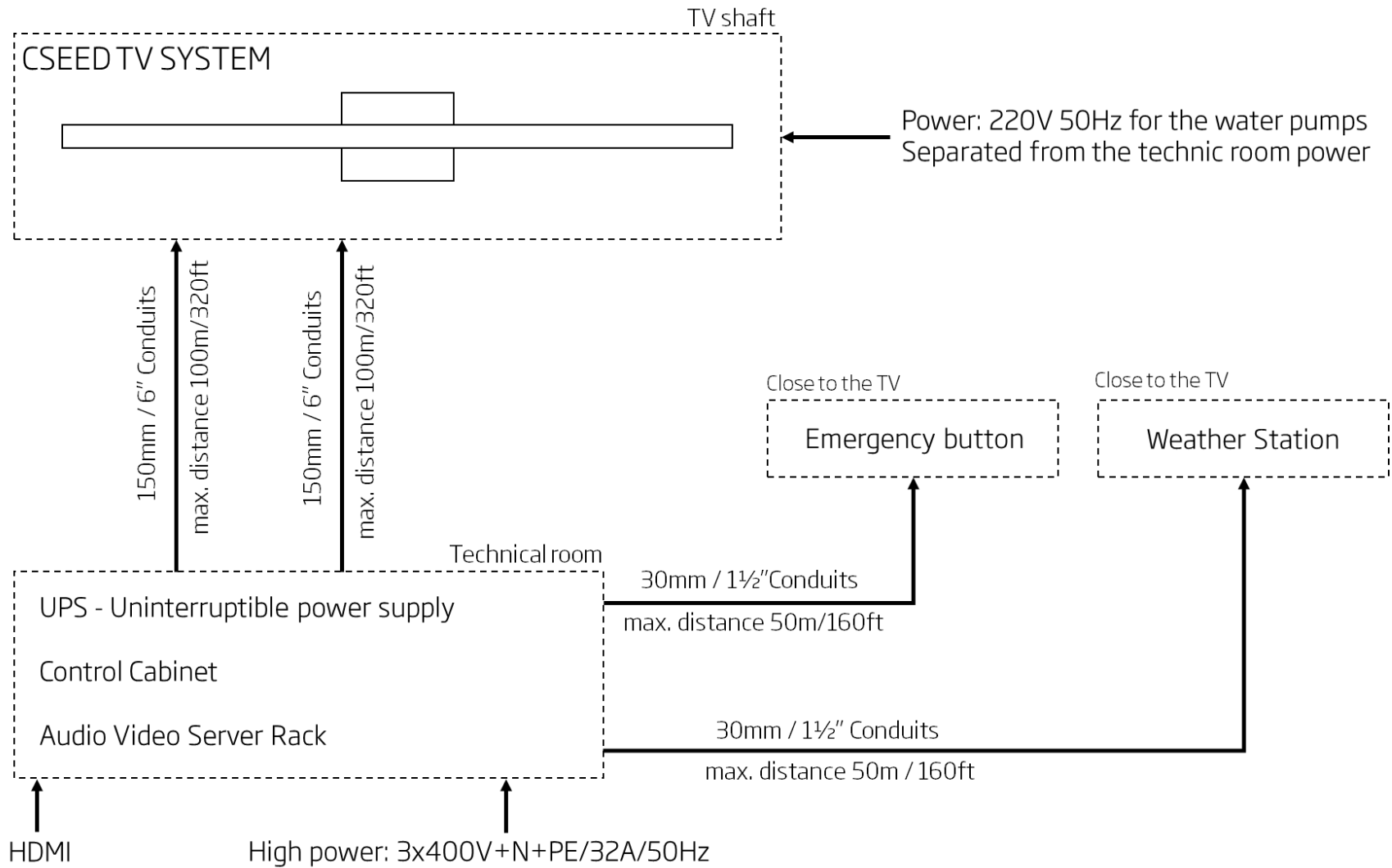


Top view shown without cover



Reference	Diameter	Outlet
A	160	Dehumidifier
B	50	Wind Sensor
C	110	Main AV Supply
D	110	Low Voltage Electronic
E	50	Breaker Box
F	50	Water Pump Drain
G	75	Air Condition Duct in/out

ELECTRICAL OVERVIEW



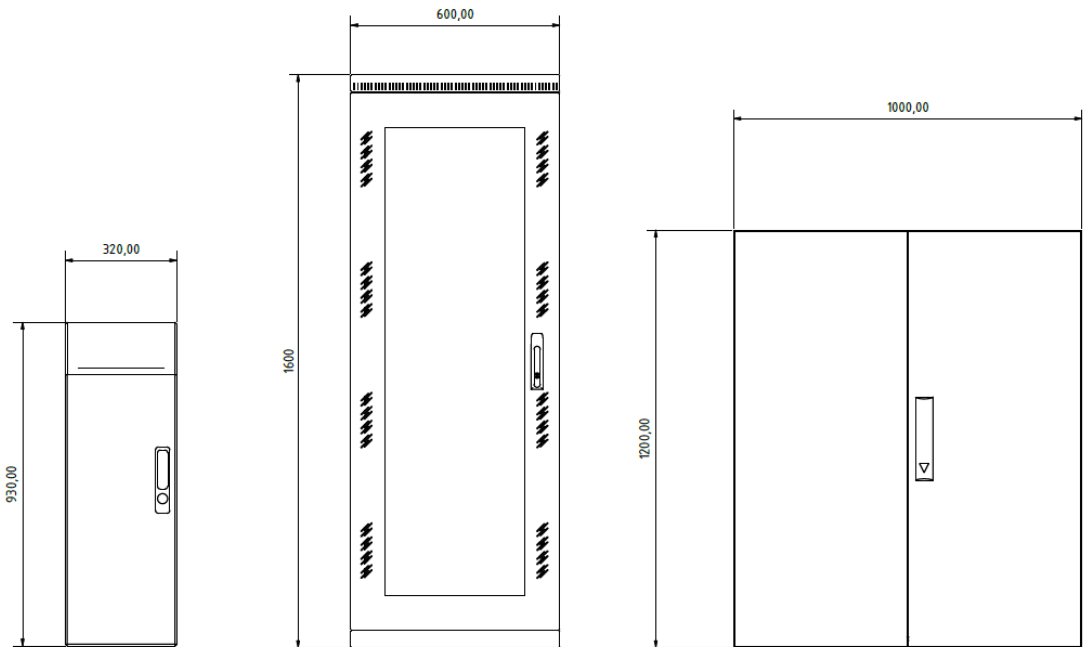
EQUIPMENT

UPS

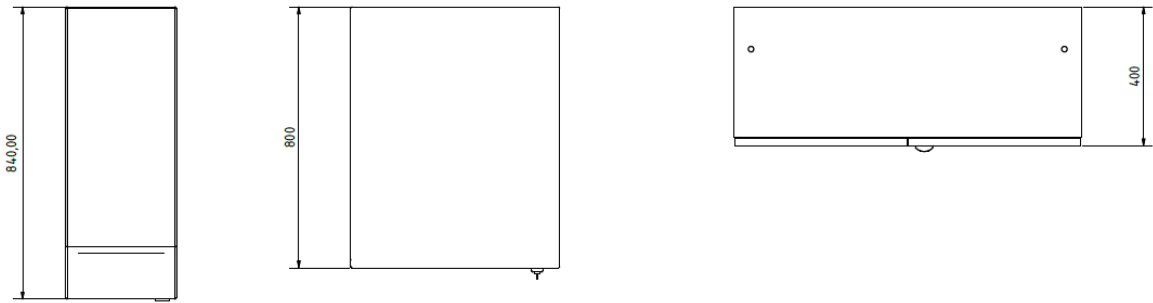
AV-Rack

Control Cabinet

Front view



Top view



TV SYSTEM COMPONENTS

TV SHAFT

- ca. 2500x2500x4950 mm | 99x99x195 inches | LxWxD
 - according to final TV shaft plan
- Earthing of the TV well (min. 3 times)
- Drainage - Natural drainage directly from the sump pit
- Emergency stop buzzer
- HMI | Touch panel for wired system control

TECHNICAL ROOM

100m | 320 feet from TV shaft | 2 Conduits with 150mm | 6 inches (not less)

Transformer | Power Converter **(provided by owner of the venue)**

- Requested Output: 400V - 32A- 3 Phases +N +PE.

UPS | uninterrupted power supply

- 44x132x85 cm | 17x52x34 inches | WxHxD
- High power: 3x400V+N+PE/32A/50-60Hz uninterrupted high power
 - high power transformer needed **(provided by owner of the venue)**

Control Cabinet

- 1000x1200x400 mm | 39x48x16 inches | WxHxD
 - feed cable with 5 pins or 4 pins plus additional earthing
- power protection with a "fault-current circuit breaker AC/DC sensitive and electric frequency converter capable"

AV Rack

- SAT | video | TV signals to be connected via HDMI inputs
- 6x 230V | 50 Hz uninterrupted power (European plugs)
- Internet connection as of beginning of installation (permanent!)
- Rack monitor
- HDMI Input 1pcs.

Weather station / wind sensor

- Location near the screen - conduit needed to TV shaft diameter ca. 30mm | 1 ½ inches

Cabling ducts and conduits

- 1 tube with diameter ca. 150 mm | 6 inches (not less)
 - Located between electricity cabinet and TV shaft (high power connection)
- 1 Tube with diameter ca. 150mm | 6 inches (not less)
 - Located between AV room and TV shaft (data cables from MMS)
- 1 Tube with diameter ca. 30mm | 1 ½ inches (not less)
 - Located between weather station and TV shaft (weather station data)

RESPONSIBILITIES

SERVICES PROVIDED BY AND AT THE EXPENSES OF THE OWNER OF THE VENUE

- High power: 3x400V+N+PE/32A/50-60Hz uninterrupted high power at UPS
- Internet connection at the AV - Rack as of beginning of the installation
- WIFI I WLAN at the venue as of beginning of the installation
- Permissions of local authorities as appropriate
- Civil engineer calculations I statics and permits
- Access for heavy duty excavator, crane and trucks to TV well
- Excavation for the construction of the TV shaft according to ground-structure
- Waterproof construction of the TV shaft according to C SEED plans
- Cabling ducts and conduits to and from TV shaft according to plan
- Sat I video I TV signals at the AV-Rack
- Crane on site approximately 20 hours in total (max. 4,5 tons & 10 meters of height)
- Revitalization of the venue when operating I post-installation

SERVICES PROVIDED BY C SEED

- 2 Site Visits
 - First site visit (meeting with construction company I civil engineer I etc.)
 - Second site visit (Control of the finished construction before delivery)
- Standard plan for construction of the TV well for local civil engineer
- Plan of locations (indoor I outdoor) of system components
- Plan of cabling ducts and conduits
- Delivery of all cables (electrical & optical fiber cables)
- Coordination with local electrician
- Coordination with local sat I video I TV professional
- Implementation, programming & testing of the C SEED144
 - TCP/IP control protocol for home automation
- Operation training for technical staff of the venue

Checklist Customer

- ☐ High power: 3x400V+N+PE/32A/50-60Hz uninterrupted high power at UPS
- ☐ Internet connection at the AV-Rack as of beginning of the installation
- ☐ WIFI I WLAN at the venue as of beginning of the installation
- ☐ Permissions of local authorities as appropriate
- ☐ Civil engineer calculations I statics and permits
- ☐ Access for heavy duty excavator, crane and trucks to TV well
- ☐ Excavation for the construction of the TV shaft according to ground-structure
- ☐ Waterproof construction of the TV shaft according to C SEED plans
- ☐ Cabling ducts and conduits to and from TV shaft according to plan
- ☐ Sat I video I TV signals at the AV-Rack
- ☐ Crane on site approximately 20 hours in total (max. 4,5 tons)
- ☐ Revitalization of the venue when operating I post-installation
- ☐ Transformer I Power Converter -Requested Output: 400V - 32A- 3 Phases +N +PE
- ☐ Air condition system (provided by owner of the venue)
- ☐ Heating device (provided by owner of the venue)

Contacts

Owner representative

Construction company of the venue

C SEED Project manager
