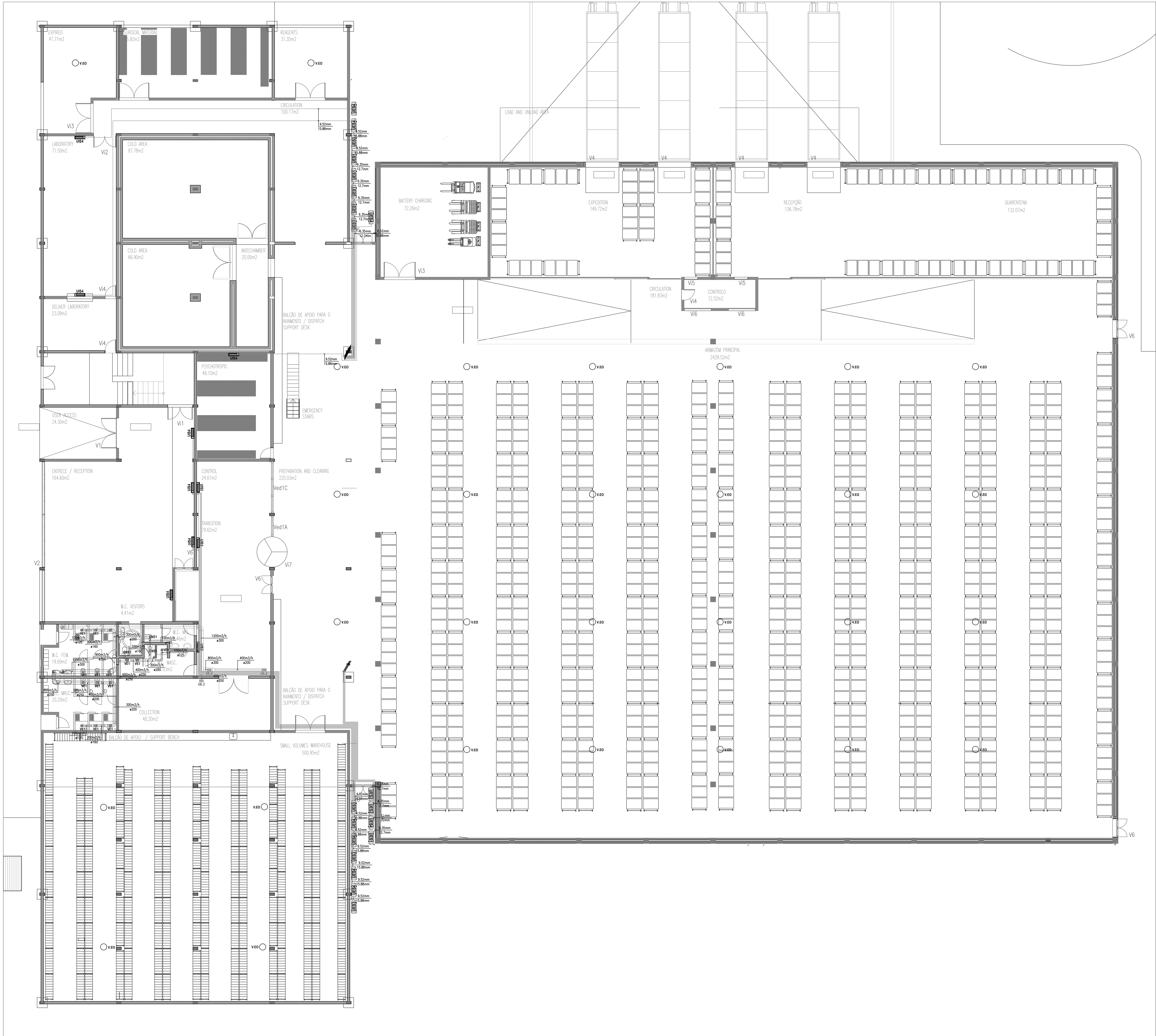
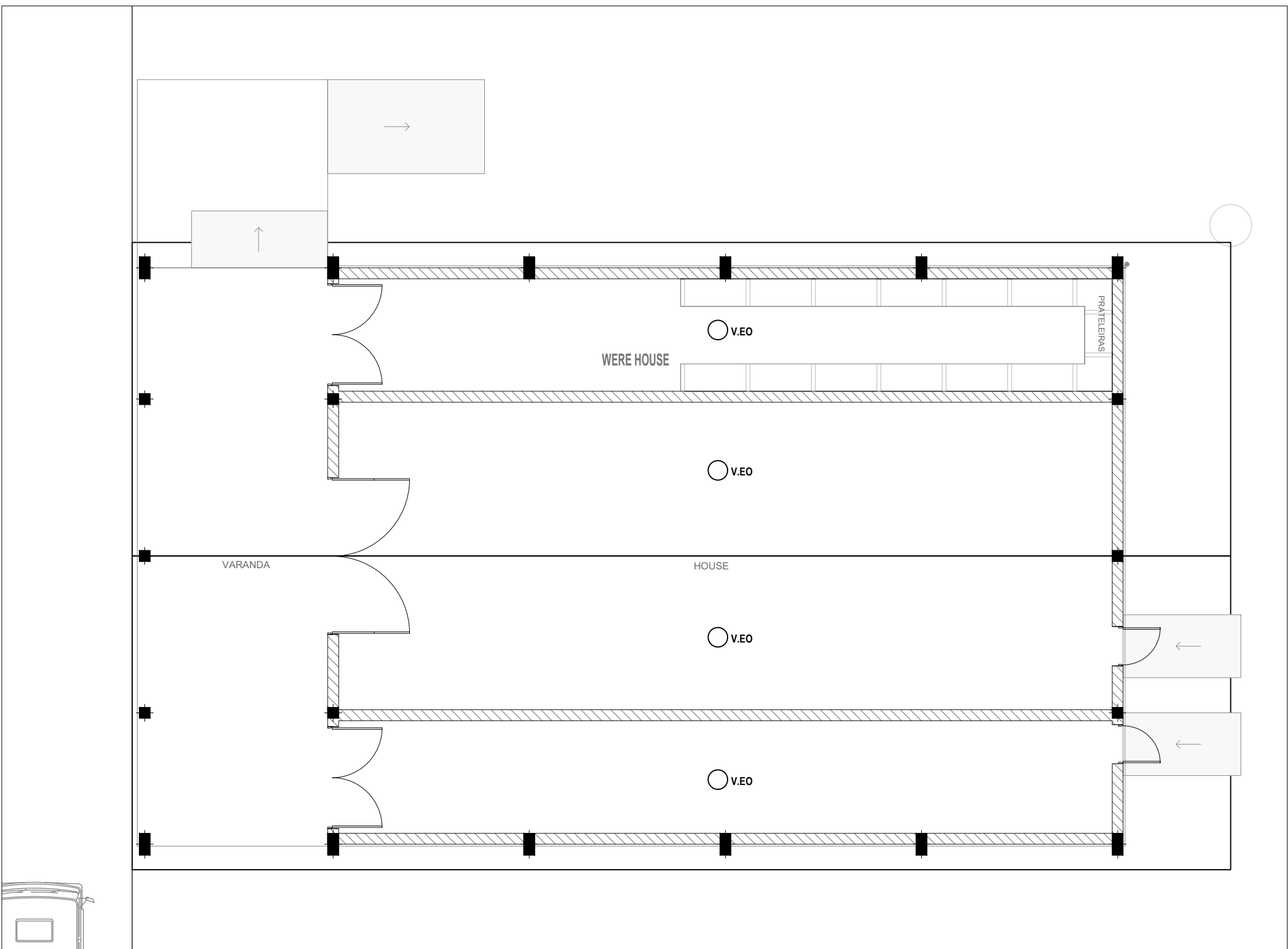
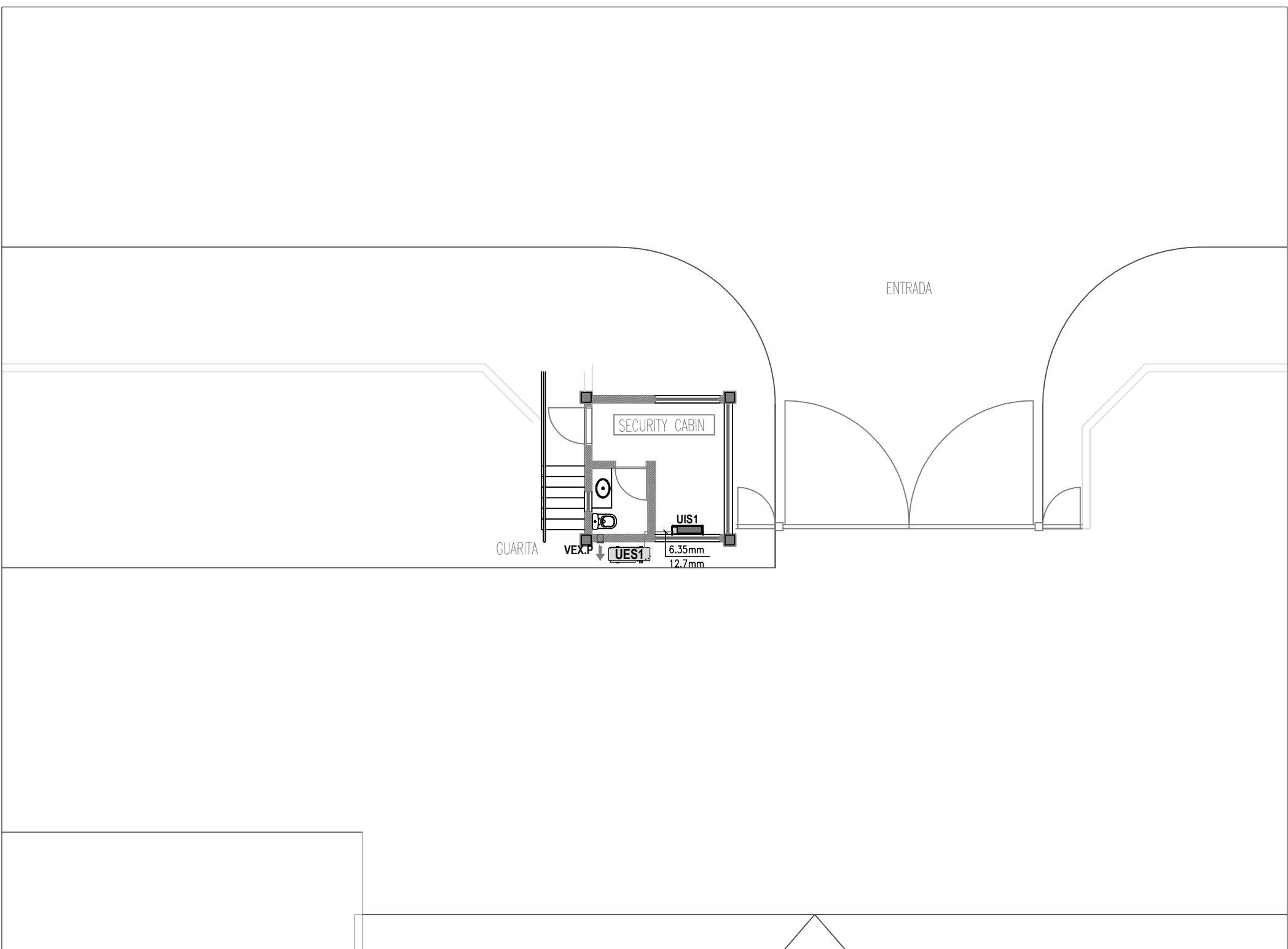




FLOOR PLAN 0 - MAIN BUILDING



FLOOR PLAN 0 - FLAMMABLE BUILDING



FLOOR PLAN 0

TRACK COVER ABOVE PIPE WITH REMOVABLE COVER ABOVE

FLUID PIPE FIXATION

FIXING DETAIL OF THE CIRCULAR CONDUITS

FIXATION DETAIL OF A WAY CASSETTE TYPE UNITS

LABEL

| SPLIT UNIT | REF *   | PREFERENCE BRAND | MODEL | COOLING POWER (kW) | HEATING POWER (kW) |
|------------|---------|------------------|-------|--------------------|--------------------|
| VE1-VE2    | VE1-VE2 | WIPAC            | WIPAC | 1.5                | 1.5                |
| VE3-VE4    | VE3-VE4 | WIPAC            | WIPAC | 1.5                | 1.5                |
| VE5-VE6    | VE5-VE6 | WIPAC            | WIPAC | 1.5                | 1.5                |
| VE7-VE8    | VE7-VE8 | WIPAC            | WIPAC | 1.5                | 1.5                |

| AIR TERMINALS | REF *   | PREFERENCE BRAND | MODEL | DIMENSION |
|---------------|---------|------------------|-------|-----------|
| VE1-VE2       | VE1-VE2 | WIPAC            | WIPAC | 150x150   |
| VE3-VE4       | VE3-VE4 | WIPAC            | WIPAC | 150x150   |
| VE5-VE6       | VE5-VE6 | WIPAC            | WIPAC | 150x150   |
| VE7-VE8       | VE7-VE8 | WIPAC            | WIPAC | 150x150   |

| VENTILATION | REF *   | PREFERENCE BRAND | MODEL | FLOW (m³/h) | STATUS |
|-------------|---------|------------------|-------|-------------|--------|
| VE1-VE2     | VE1-VE2 | WIPAC            | WIPAC | 1500        | 1500   |
| VE3-VE4     | VE3-VE4 | WIPAC            | WIPAC | 1500        | 1500   |
| VE5-VE6     | VE5-VE6 | WIPAC            | WIPAC | 1500        | 1500   |
| VE7-VE8     | VE7-VE8 | WIPAC            | WIPAC | 1500        | 1500   |

END

Requisitos:

Nome:

Visão: BERSA

Fase: EXECUÇÃO

Objeto: ARM. MEDICAMENTOS BERSA

Local: BERSA

Exatidão: AVAC

Conteúdo: IMPLANTAÇÃO DE EQUIPAMENTO REDES AVAC - PISO 0

Proprietário: Eng.º André Pires

Projetista: Eng.º André Pires

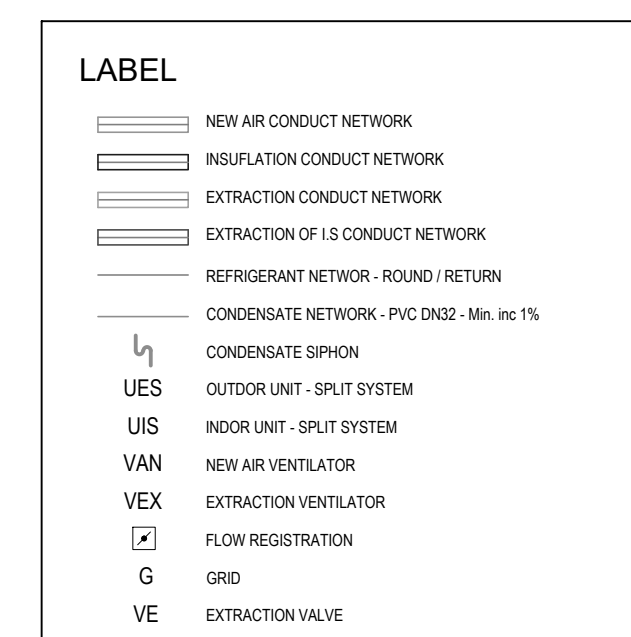
Colaborador: Eng.º André Pires

Revisão: 01

Data: 08 de Outubro de 2020

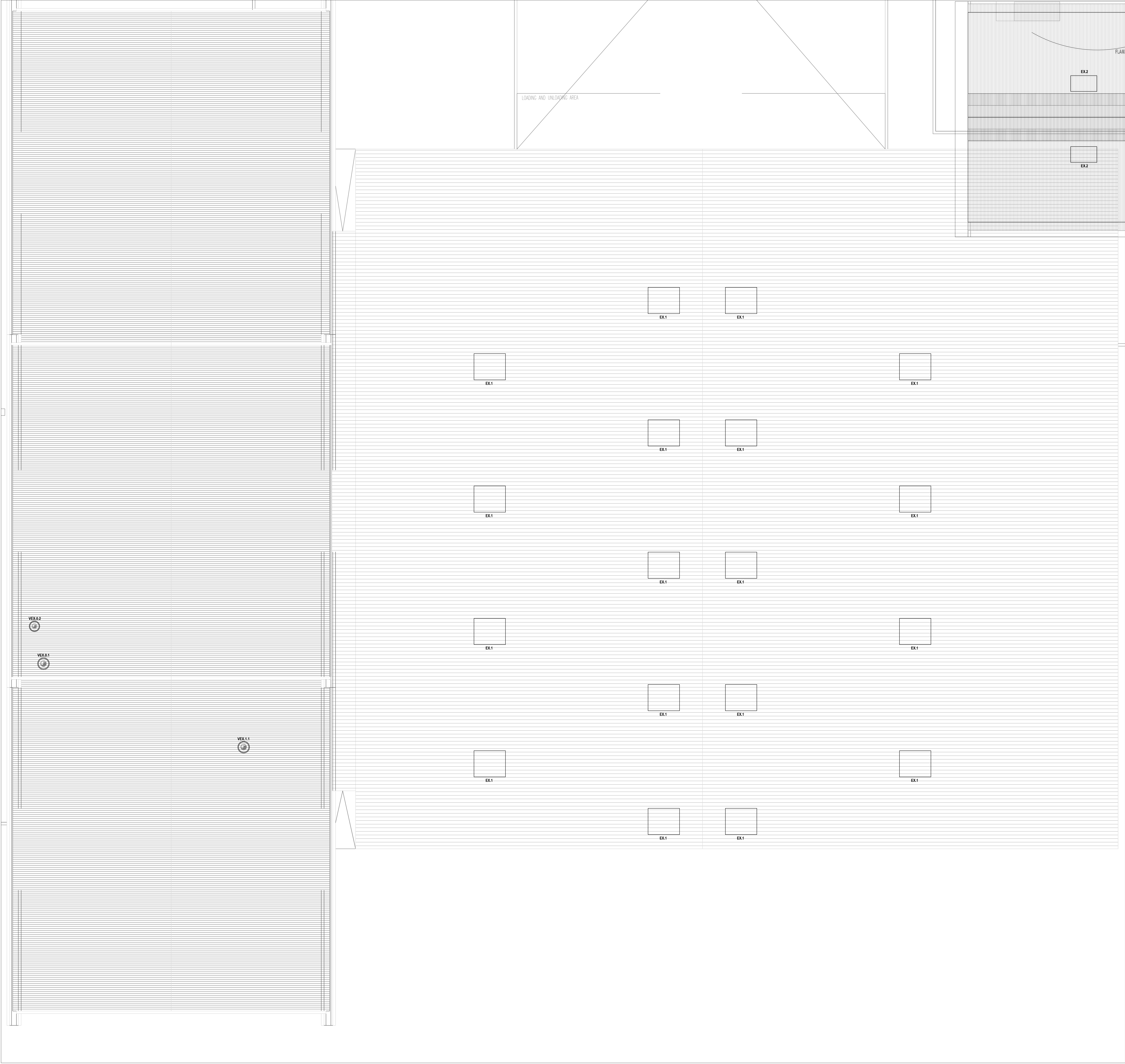
Desenho: 01/01

01.00



| VENTILATOR |                  |                       |             |                      |  |
|------------|------------------|-----------------------|-------------|----------------------|--|
| REF.*      | PREFERENCE BRAND | MODEL                 | FLOW (m³/h) | STATIC PRESSURE (Pa) |  |
| VEX.0.1    | SOLER & PALAU    | HCTB4-405-8 (409V5)   | 12000       | 150.0                |  |
| VEX.0.2    | SOLER & PALAU    | HCTB4-405-8 (239V5)   | 19000       | 150.0                |  |
| VEX.1.1    | SOLER & PALAU    | HCTB4-455-8 (239V5)   | 24000       | 150.0                |  |
| VEX.1.2    | SOLER & PALAU    | TD-600-150 SILENT     | 400.0       | 150.0                |  |
| VAN.1.1    | SOLER & PALAU    | CVB-27000CN RE 2450   | 24000       | 150.0                |  |
| VEX.P5     | SOLER & PALAU    | SILENCE 200 032       | —           |                      |  |
| EX.1       | FRANCE AIR       | ORIGNE LAM 2000x400   |             |                      |  |
| EX.2       | FRANCE AIR       | SILENCE LAM 2000x1200 |             |                      |  |

002.00



TRACK COVER ABOVE PIPE WITH REMOVABLE COVER ABOVE

FLUID PIPE FIXATION

ALL PIPING WILL BE INSULATED AND MECHANICALLY PROTECTED WHEN INSTALLED OUTSIDE  
INSULATION DOES NOT EXCLUDE THE INSTALLATION OF ABSORBING ELEMENTS OF FIBROTYPE THE CLAMP  
THE COVER MUST BE INSULATED WITH A MINIMUM OF 20MM ON EACH SIDE  
AND HAVE A MINIMUM SLOPE OF 1% IF NECESSARY, INSTALLED AT 150MM

FIXING DETAIL OF THE CIRCULAR CONDUITS

ALL CONDUITS WILL BE INSULATED AND MECHANICALLY PROTECTED WHEN INSTALLED OUTSIDE  
INSULATION DOES NOT EXCLUDE THE INSTALLATION OF ABSORBING ELEMENTS OF FIBROTYPE THE CLAMP

FIATION DETAIL OF 4-WAY CASSETTE TYPE UNITS

**LABEL**

- NEW AIR CONDUIT NETWORK
- MAINTENANCE CONDUIT NETWORK
- EXTRACTION CONDUIT NETWORK
- EXTRACTION OF 1.5 CONDUIT NETWORK
- REFRIGERANT NETWORK - ROUND - RETURN
- CONDENSATE NETWORK - PVC DRAIN - MAX. 1% SLOPE
- CONDENSATE SINK
- OUTDOOR UNIT - SPLIT SYSTEM
- INDOOR UNIT - SPLIT SYSTEM
- NEW AIR VENTILATOR
- EXTRACTION VENTILATOR
- FLOW RESTRICTION
- GRID
- EXTRACTION VALVE

| SPLIT UNIT |                     |             |                    |                    |
|------------|---------------------|-------------|--------------------|--------------------|
| REF *      | PREFERENCE BRAND    | MODEL       | COOLING POWER (kW) | HEATING POWER (kW) |
| USB1-UBS1  | MITSUBISHI ELECTRIC | PNZ-AP30RAL | 3.5                | 4.1                |
| USB2-UBS2  | MITSUBISHI ELECTRIC | PNZ-AP30RAL | 4.5                | 5.3                |
| USB3-UBS3  | MITSUBISHI ELECTRIC | PNZ-AP30RAL | 4.5                | 5.3                |
| USB4-UBS4  | MITSUBISHI ELECTRIC | PNZ-AP30RAL | 7.1                | 8.5                |

| AIR TERMINALS                      |                  |             |           |
|------------------------------------|------------------|-------------|-----------|
| REF *                              | PREFERENCE BRAND | MODEL       | DIMENSION |
| GE.1 / GA.1                        | FRANCE AIR       | GAC 10 / 20 | 200x100   |
| GE.2 / GA.2                        | FRANCE AIR       | GAC 10 / 20 | 300x150   |
| GE.1                               | FRANCE AIR       | GAC 20      | 600x150   |
| GE.2                               | FRANCE AIR       | GAC 20      | 600x200   |
| GE.3                               | FRANCE AIR       | GAC 20      | 600x300   |
| GE.4                               | FRANCE AIR       | GAC 20      | 600x300   |
| GE.1.1                             | FRANCE AIR       | GEA         | 300x400   |
| GE.1.2                             | FRANCE AIR       | GEA         | 300x200   |
| VE.1                               | FRANCE AIR       | VE.N.       | 125       |
| N.B. TO BE DEFINED BY ARCHITECTURE |                  |             |           |

| VENTILATOR |                  |                         |             |                      |
|------------|------------------|-------------------------|-------------|----------------------|
| REF *      | PREFERENCE BRAND | MODEL                   | FLOW (m³/h) | STATIC PRESSURE (Pa) |
| VEX.0.1    | SOLER & PALAU    | PC1254-400-6 (H0V05)    | 1000.0      | 150.0                |
| VEX.0.2    | SOLER & PALAU    | PC1254-400-6 (H0V05)    | 1800.0      | 150.0                |
| VEX.1.1    | SOLER & PALAU    | PC1254-400-6 (H0V05)    | 3400.0      | 150.0                |
| VEX.1.2    | SOLER & PALAU    | TO-500/150-180 SILENT   | 400.0       | 150.0                |
| VEX.1.1    | SOLER & PALAU    | CHB 270/200/180 HE 2400 | 2400.0      | 150.0                |
| VEX.1.2    | SOLER & PALAU    | CHB 270/200/180 HE 2400 | 2400.0      | 150.0                |
| EX.1       | FRANCE AIR       | ORCINE LAM 2000x1000    |             |                      |
| EX.2       | FRANCE AIR       | ORCINE LAM 2000x1000    |             |                      |

**IND**

INDUSTRIAL DESIGN

INDUSTRIAL DESIGN

Requerido: -

Nome: -

Moneda: BERA

Fase: EXECUTION

Obra: BEIRA MEDICINE WARE HAUSE

Local: BEIRA

Especialidade: HVAC

Conten: IMPLANTATION OF EQUIPMENT HVAC - ROOF NETWORK

Projetado: -

Processo: / FolhaB5-AVAC-001-F1-RECOVER

Elaborado por: Eng.º André Palma

Colaboradores: -

Substituto pelo: -

Elaborado por: Eng.º André Palma

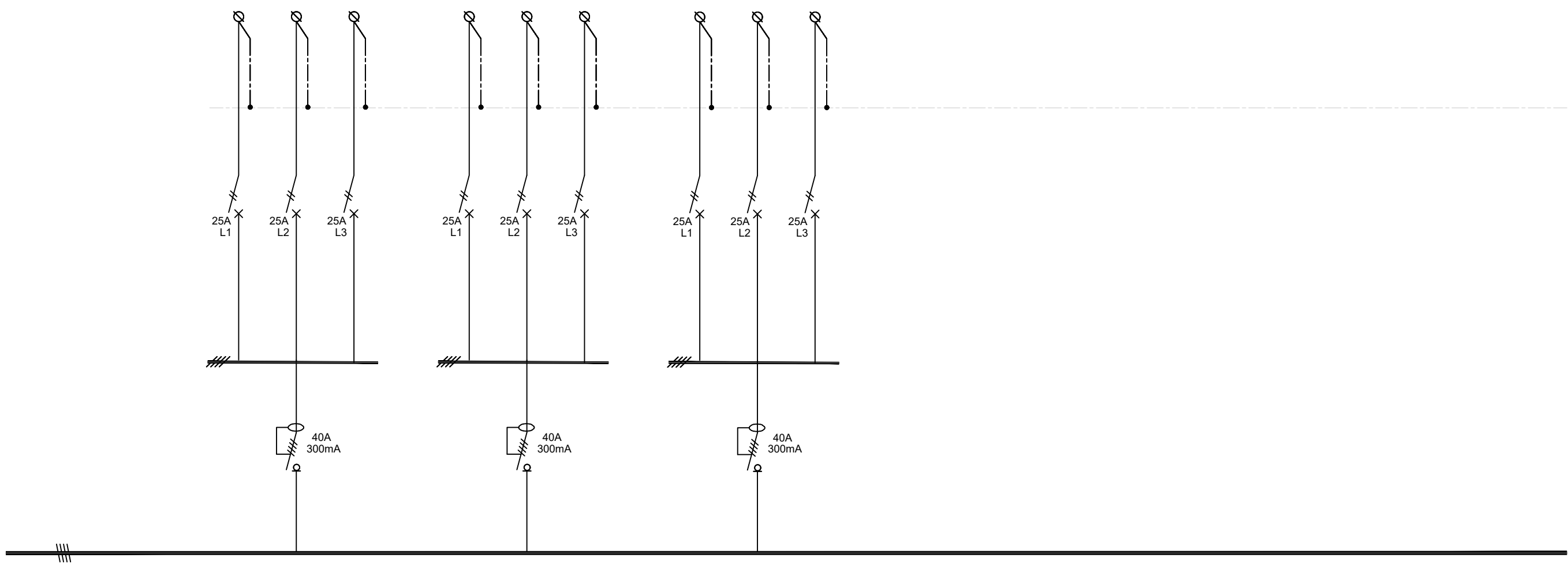
Data: 08 de Outubro de 2020

Escala: 1:100

Desenho nº: 003.00



|                            |            |            |            |  |            |            |            |  |            |            |            |  |
|----------------------------|------------|------------|------------|--|------------|------------|------------|--|------------|------------|------------|--|
| Ø TUBAGEM                  | ---        | ---        | ---        |  | ---        | ---        | ---        |  | ---        | ---        | ---        |  |
| SECÇÃO de CABOS/CONDUTORES | XG(zh) 3G4 | XG(zh) 3G4 | XG(zh) 3G4 |  | XG(zh) 3G4 | XG(zh) 3G4 | XG(zh) 3G4 |  | XG(zh) 3G4 | XG(zh) 3G4 | XG(zh) 3G4 |  |
| POTÊNCIA (kVA)             | 2.4        | 2.4        | 2.4        |  | 2.4        | 2.4        | 2.4        |  | 2.4        | 2.4        | 2.4        |  |
| DESIGNAÇÃO                 | UE4        | UE4        | UE4        |  | UE4        | UE4        | UE4        |  | UE4        | UE4        | UE4        |  |
| CIRCUITO                   | A16        | A17        | A18        |  | A19        | A20        | A21        |  | A22        | A23        | A24        |  |



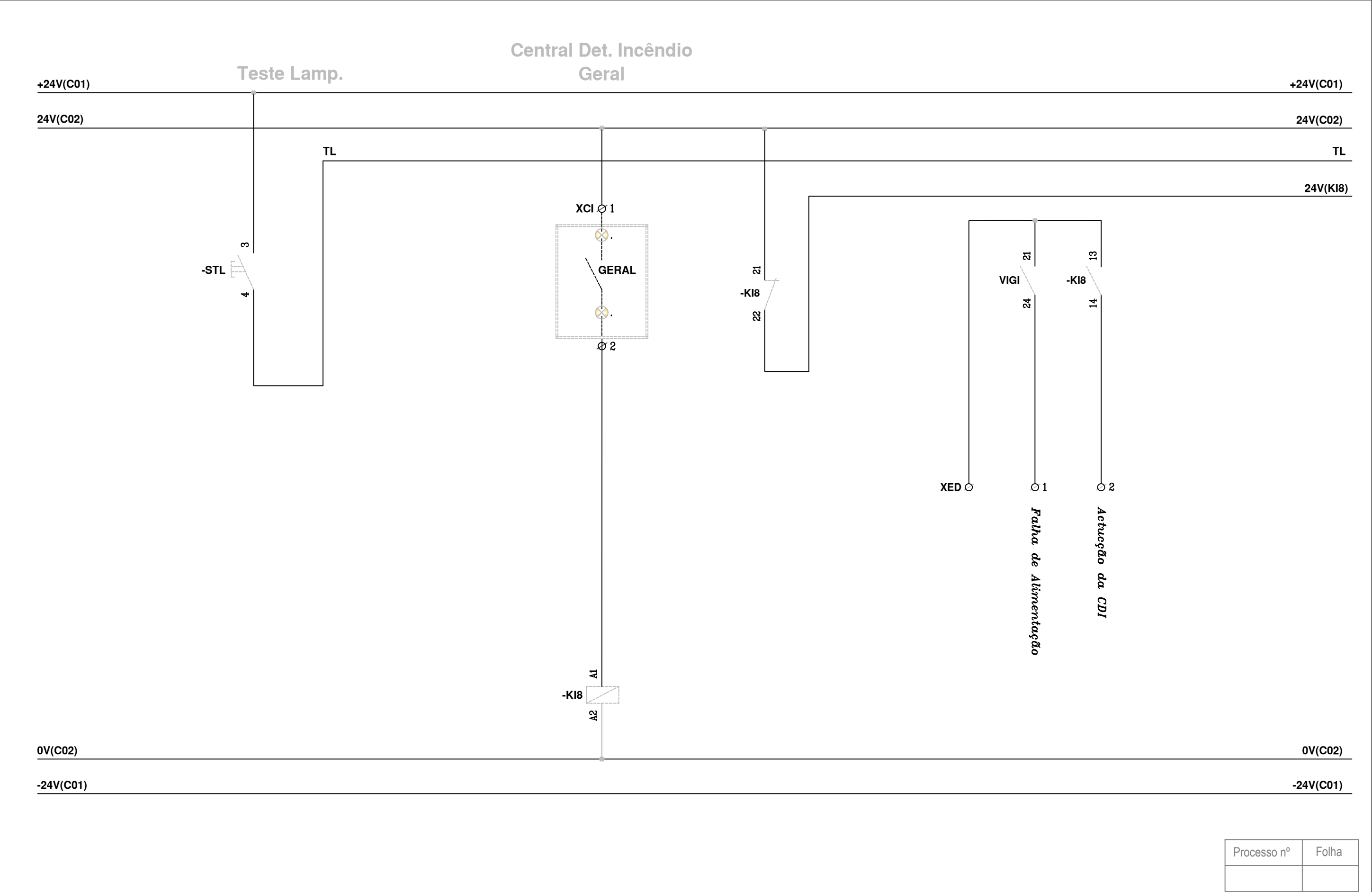
3L+N+PE ~50Hz 400/230V  
Ib = 265A  
Pdc≥ 10kA  
Classe II de Isolamento  
Cu 2x(20x5)mm

(\*) - Cabo de alimentação deste Quadro Eléctrico e poder de corte da aparelhagem devem ser confirmados pelo projectista de Instalações de Eléctricas, por forma a ser compatível com Icc e QDT da instalação.  
(\*\*) - Contagem de energia ligada à GTC por cabo BUS.

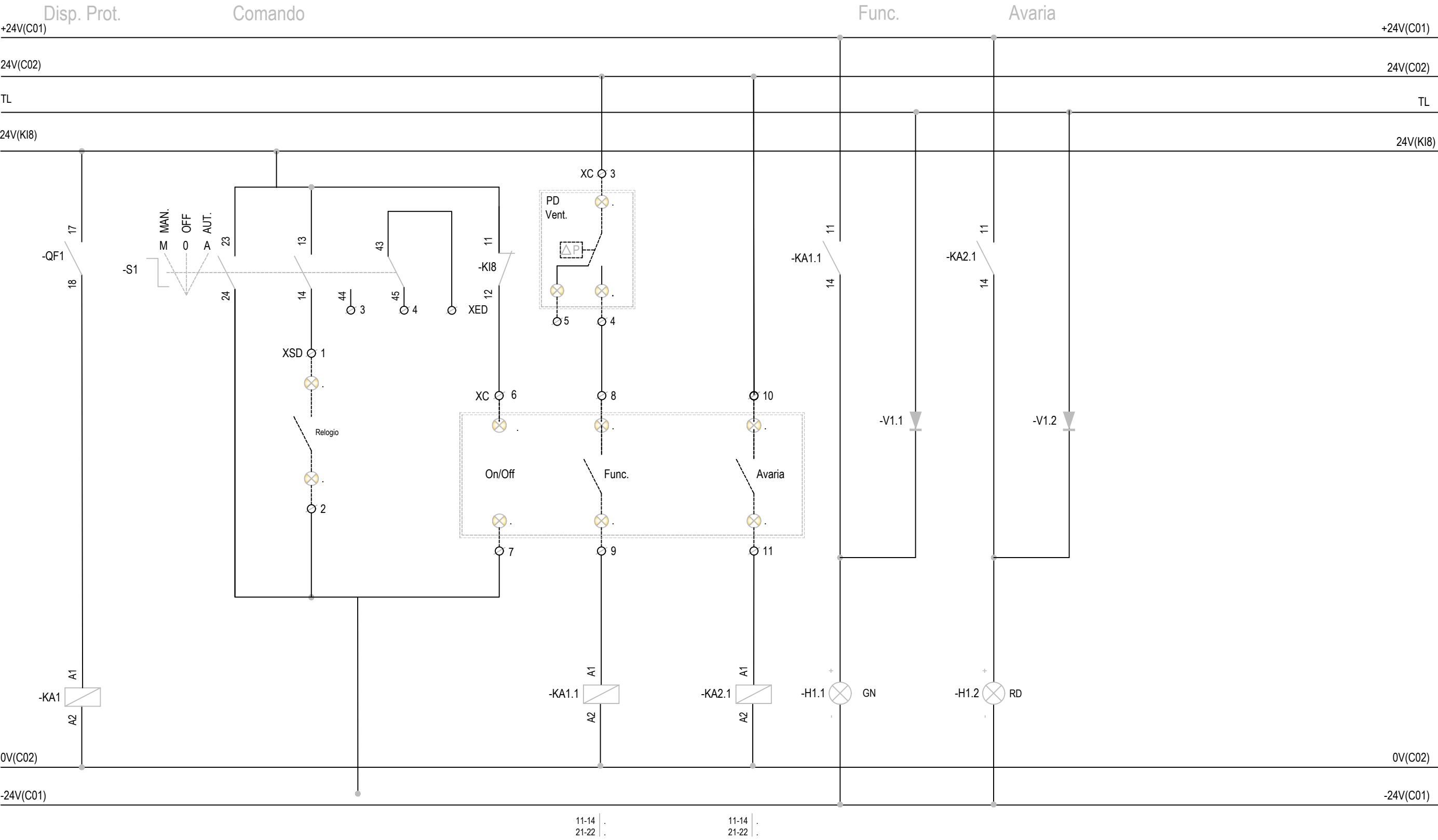
FORECASTE 30% SPACE RESERV

|             |       |
|-------------|-------|
| Processo nº | Folha |
|             |       |

|     |      |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |            |            |             |
|-----|------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|------------|-------------|
| REV | DATA | DESIGNAÇÃO |  <div>PORTUGAL<br/>AVENIDA FERNANDO NAMORA<br/>Nº 68B ESCRITÓRIO A - QUINTA NOVA<br/>2820-599 CHARNECA DE CAPARICA<br/>GERAL@ENGENHARIADINAMICA.COM<br/>WWW.ENGENHARIADINAMICA.COM<br/>TEL: +351 212 977 323<br/>MOÇAMBIQUE<br/>AVENIDA SANDRA MACHEL<br/>Nº2605 - MATOLA<br/>GERAL@ENGENHARIADINAMICA.COM<br/>WWW.ENGENHARIADINAMICA.MZ<br/>TEL: +258 21 783 925</div> | fase/esp:      |            | DRAWING Nr |             |
|     |      |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                             | HVAC - QE.HVAC |            | QAVAC.01   |             |
|     |      |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                             | nível:         | data:      | cod:       | SUBJECT     |
|     |      |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -              | 02/10/2020 | 033-2019   | QE.AVAC     |
|     |      |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |            |            | ANDRÉ PALMA |
|     |      |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |            |            | 2 /5        |



VEX



|             |       |
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| Processo nº | Folha |
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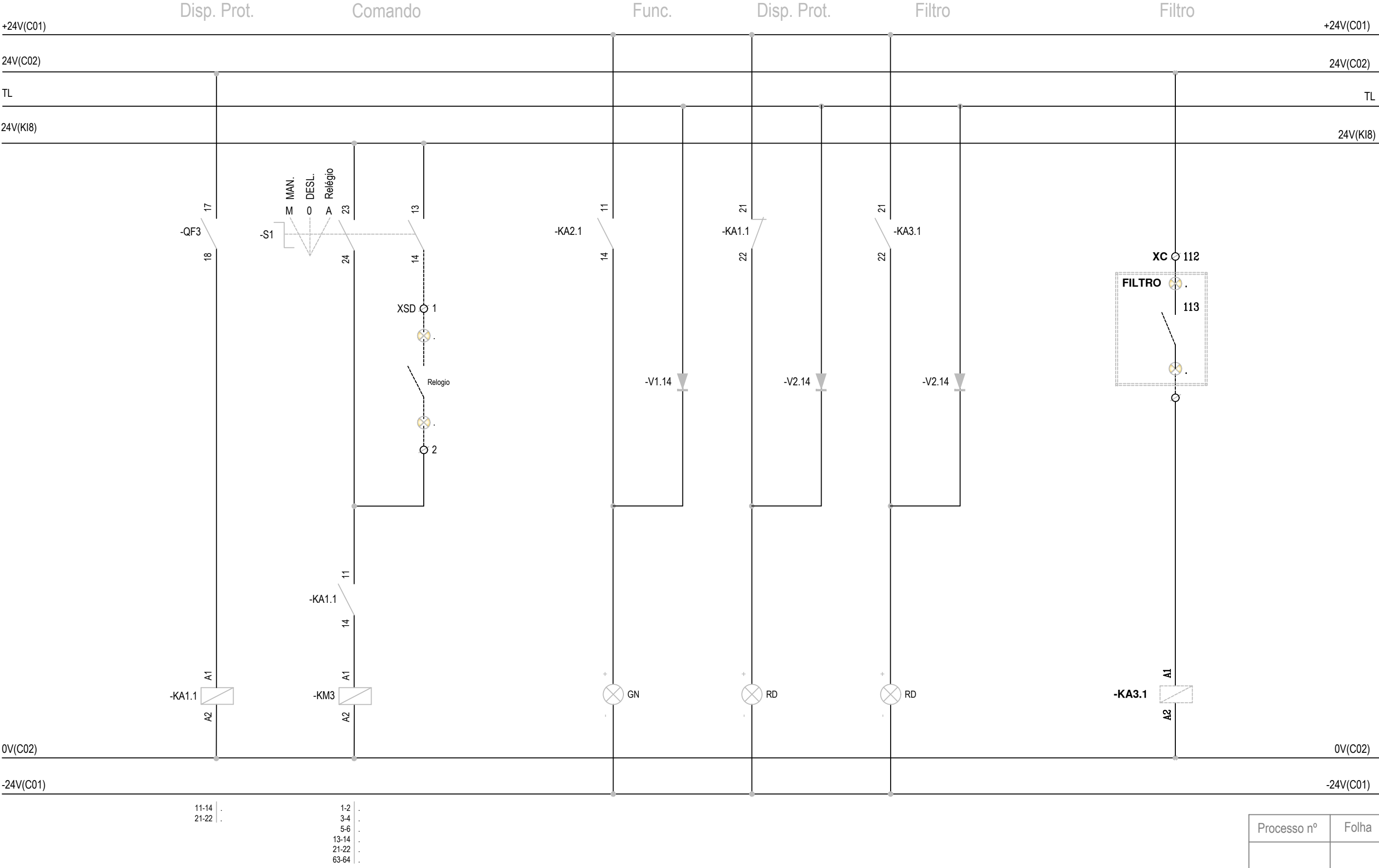
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|     |      |            |
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|-----------------------------|---------------------|------------------|------------------------|--------------------------------|
| fase/esp:<br>HVAC - QE.HVAC |                     |                  | DRAWING Nr<br>QAVAC.01 |                                |
| nível:<br>-                 | data:<br>02/10/2020 | cod:<br>033-2019 | SUBJECT<br>PROJECTED   | QE.AVAC<br>ANDRÉ PALMA<br>4 /5 |

VAN



|             |       |
|-------------|-------|
| Processo nº | Folha |
|             |       |

| REV | DATA | DESIGNAÇÃO |
|-----|------|------------|
|     |      |            |
|     |      |            |
|     |      |            |



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|-----------------------------|---------------------|------------------|------------------------|--------------------------------|
| fase/esp:<br>HVAC - QE.HVAC |                     |                  | DRAWING Nr<br>QAVAC.01 |                                |
| nivel:<br>-                 | data:<br>02/10/2020 | cod:<br>033-2019 | SUBJECT<br>PROJECTED   | QE.AVAC<br>ANDRÉ PALMA<br>4 /5 |