



Center of Excellence for Food Processing and Fisheries Ha. Dhidhdhoo

BUILDING SERVICES DRAWINGS

Ministry of Higher Education

Legend

- Refrigerant Pipes

25Ø Condensate Drain Pipe

32Ø Condensate Drain Pipe

40Ø Condensate Drain Riser Pipe

AC

Wall Mount Air Conditioner

VRV Outdoor Condensing Unit
- Variable Air Volume Box

Ceiling Surface Supply Air Grill

Ceiling Surface Return Air Grill

Thermostat Connection Line

Refrigerant Line

Supply Line

Return Line

Thermostat - Remote Controller

Cement Board False Ceiling [200mm below beam bottom]

Cement Board False Ceiling [300mm below beam bottom]

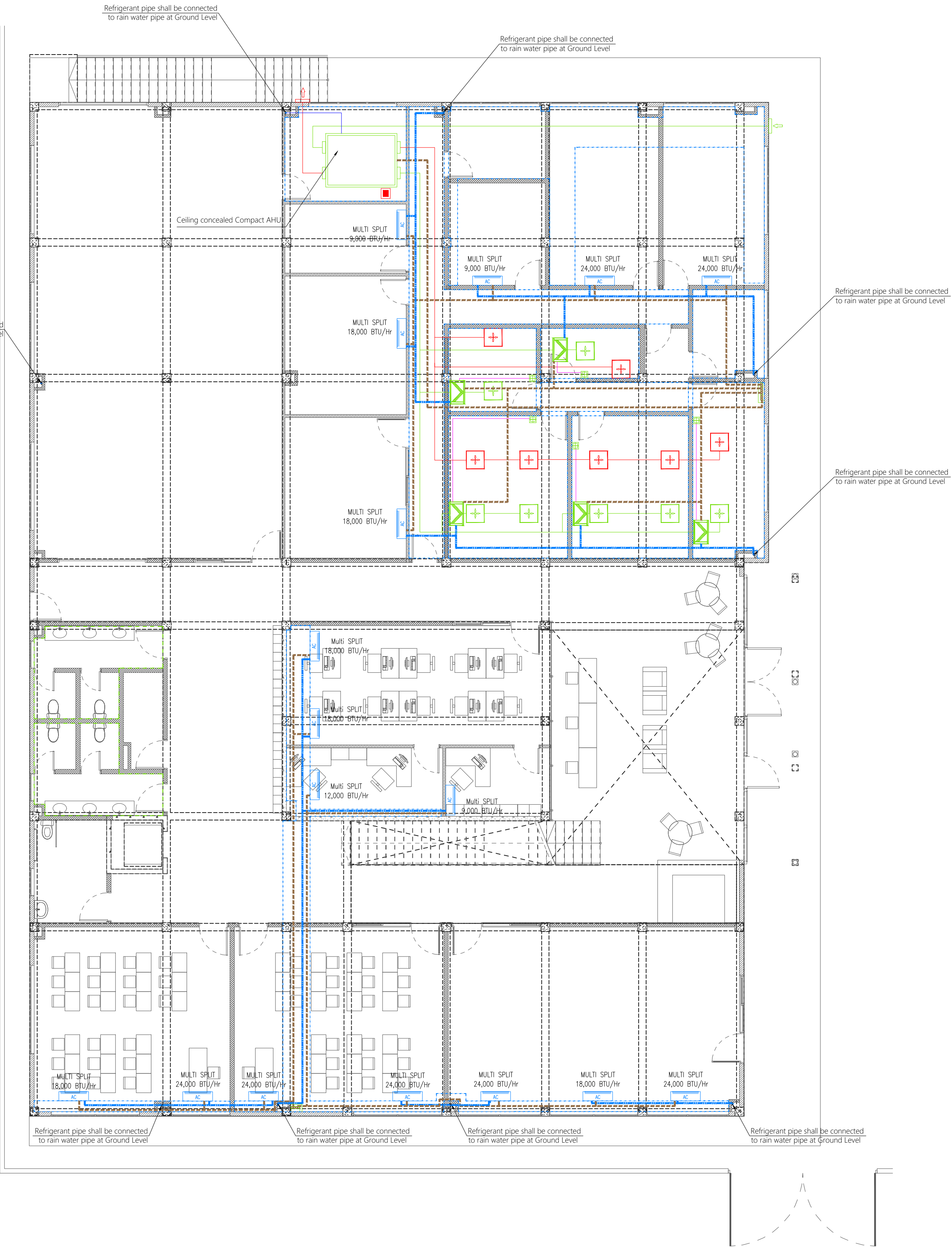
- Notes:
1. All Ceiling surface return air grills and AHU should be equipped with HEPA filters.

2. Number of Ceiling Surface Air Grills and duct layouts shall be confirmed from Manufacturers and consultants.

3. Duct size and ceiling surface return and supply grills size to be confirmed from Suppliers and Manufacturers.

4. VAV box specifications to be confirmed from suppliers and manufacturers.

5. Thermostat connection depends on the VAV specifications.



Proposed
**Center of Excellence
for Food Processing
and Fisheries
Ha. Dhidhdhoo**

Client
Ministry of Higher Education

09/12/2021
Services By **Mohamed Rassam**
Checked By **Mohamed Zaidhan**
Drawn By



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Hunuweera Magu, Male', Maldives

Rev: **AC-01**

Legend

Refrigerant Pipes

25Ø Condensate Drain Pipe

32Ø Condensate Drain Pipe

40Ø Condensate Drain Riser Pipe

AC

Wall Mount Air Conditioner

VRV Outdoor Condensing Unit

Variable Air Volume Box

Ceiling Surface Supply Air Grill

Ceiling Surface Return Air Grill

Thermostat Connection Line

Refrigerant Line

Supply Line

Return Line

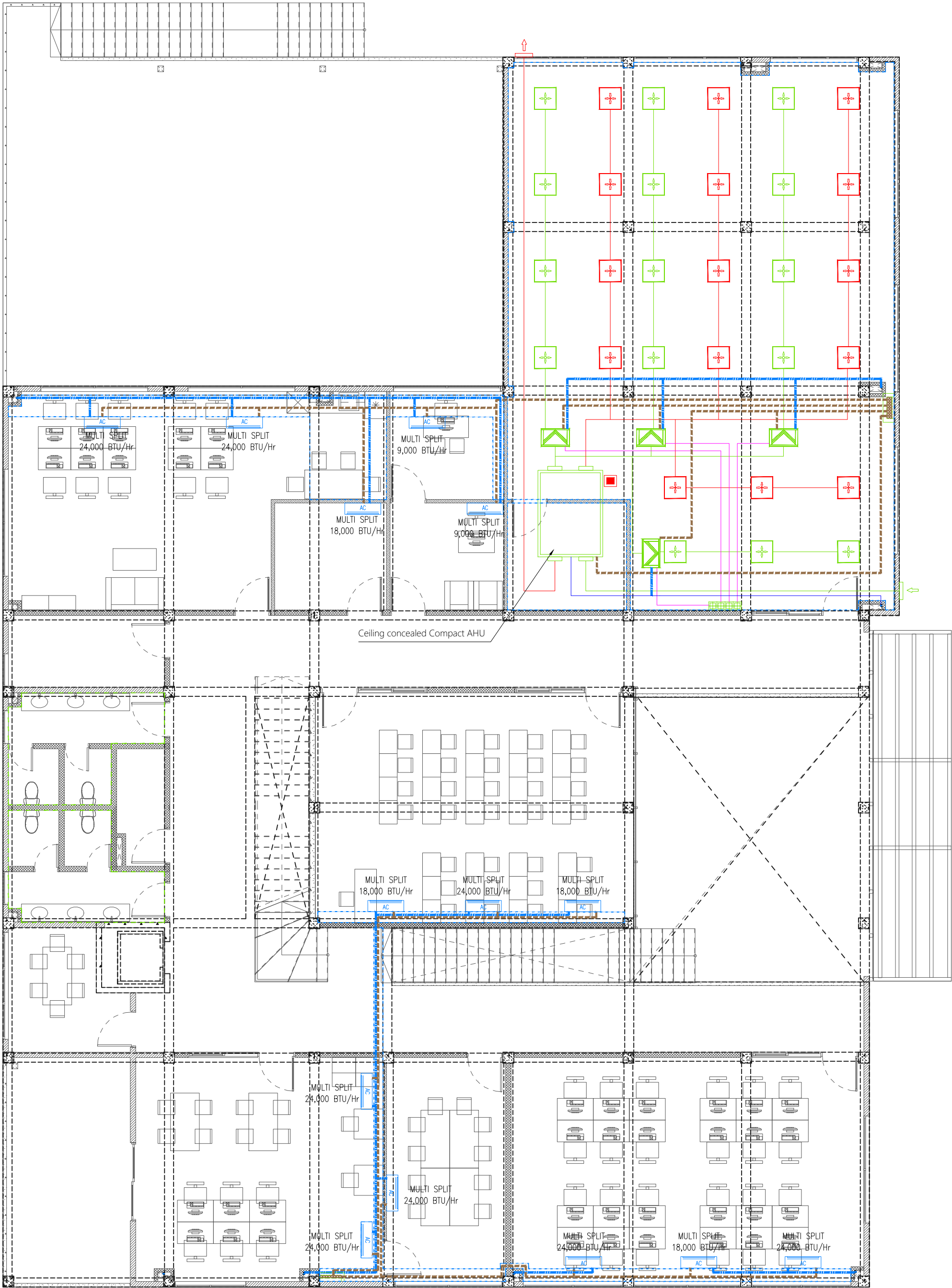
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Rev:


Page:


AC-02


Legend


- 


Refrigerant Pipes
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25Ø Condensate Drain Pipe
- 


32Ø Condensate Drain Pipe
- 


40Ø Condensate Drain Riser Pipe
- 


Wall Mount Air Conditioner
- 


VRV Outdoor Condensing Unit
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Variable Air Volume Box
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Ceiling Surface Supply Air Grill
- 


Ceiling Surface Return Air Grill
- 


Thermostat Connection Line
- 

Refrigerant Line
- 

Supply Line
- 

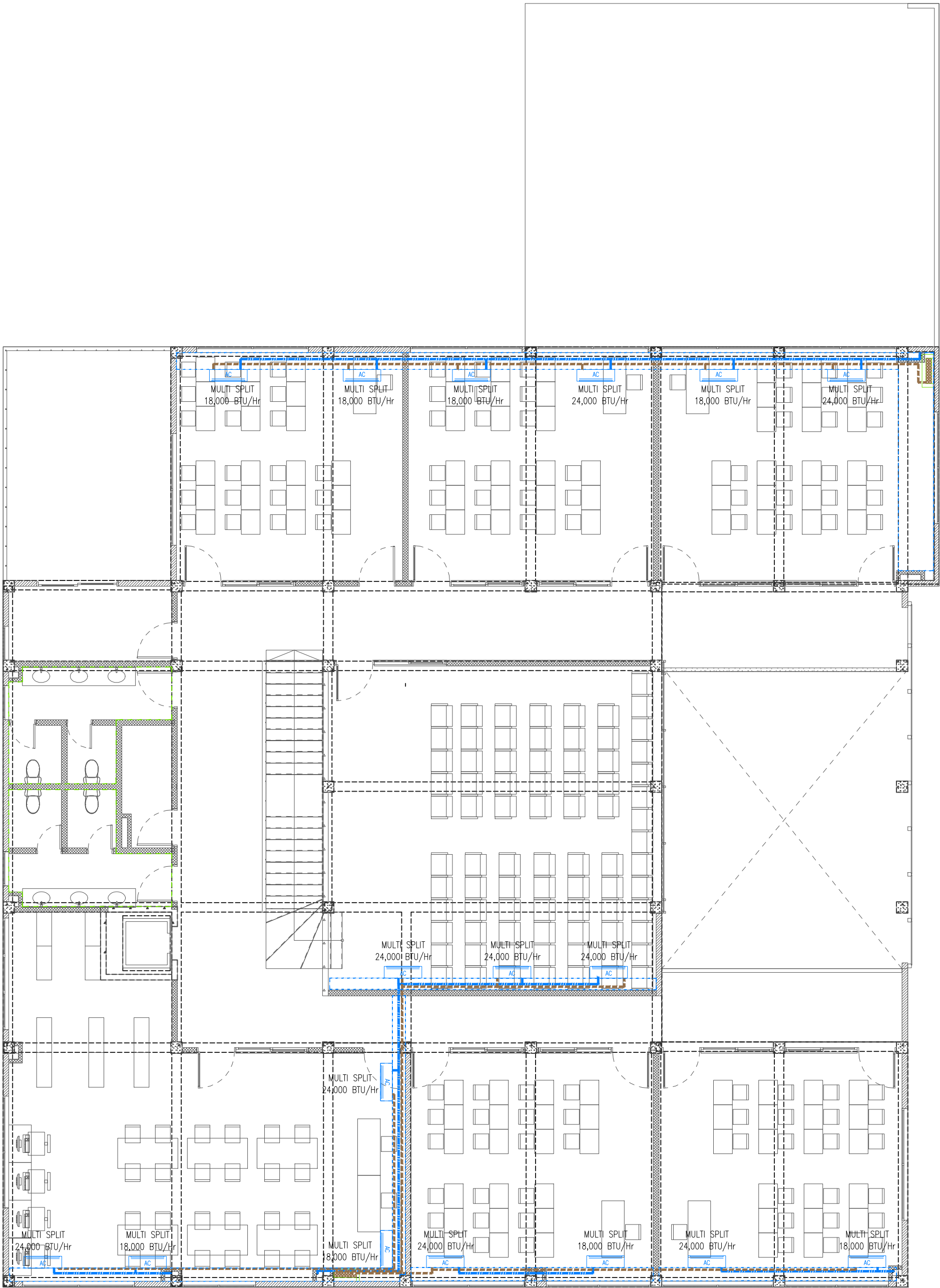
Return Line
- 

Thermostat - Remote Controller
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Cement Board False Ceiling [200mm below beam bottom]
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AC-03

Legend



Refrigerant Pipes









25Ø Condensate Drain Pipe

32Ø Condensate Drain Pipe

40Ø Condensate Drain Riser Pipe

Wall Mount Air Conditioner

VRV Outdoor Condensing Unit



Variable Air Volume Box

Ceiling Surface Supply Air Grill

Ceiling Surface Return Air Grill

Thermostat Connection Line

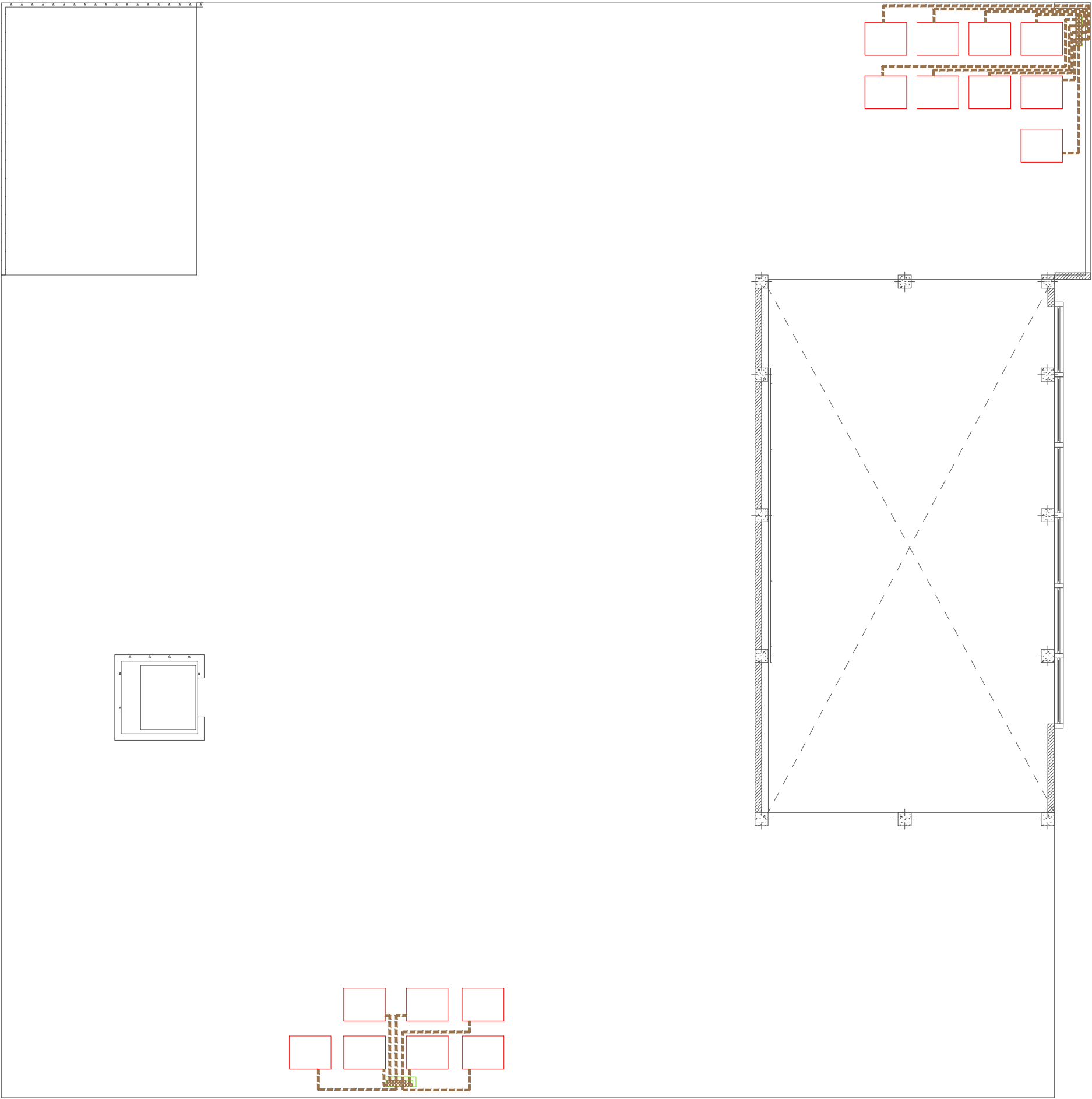
Refrigerant Line

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Return Line

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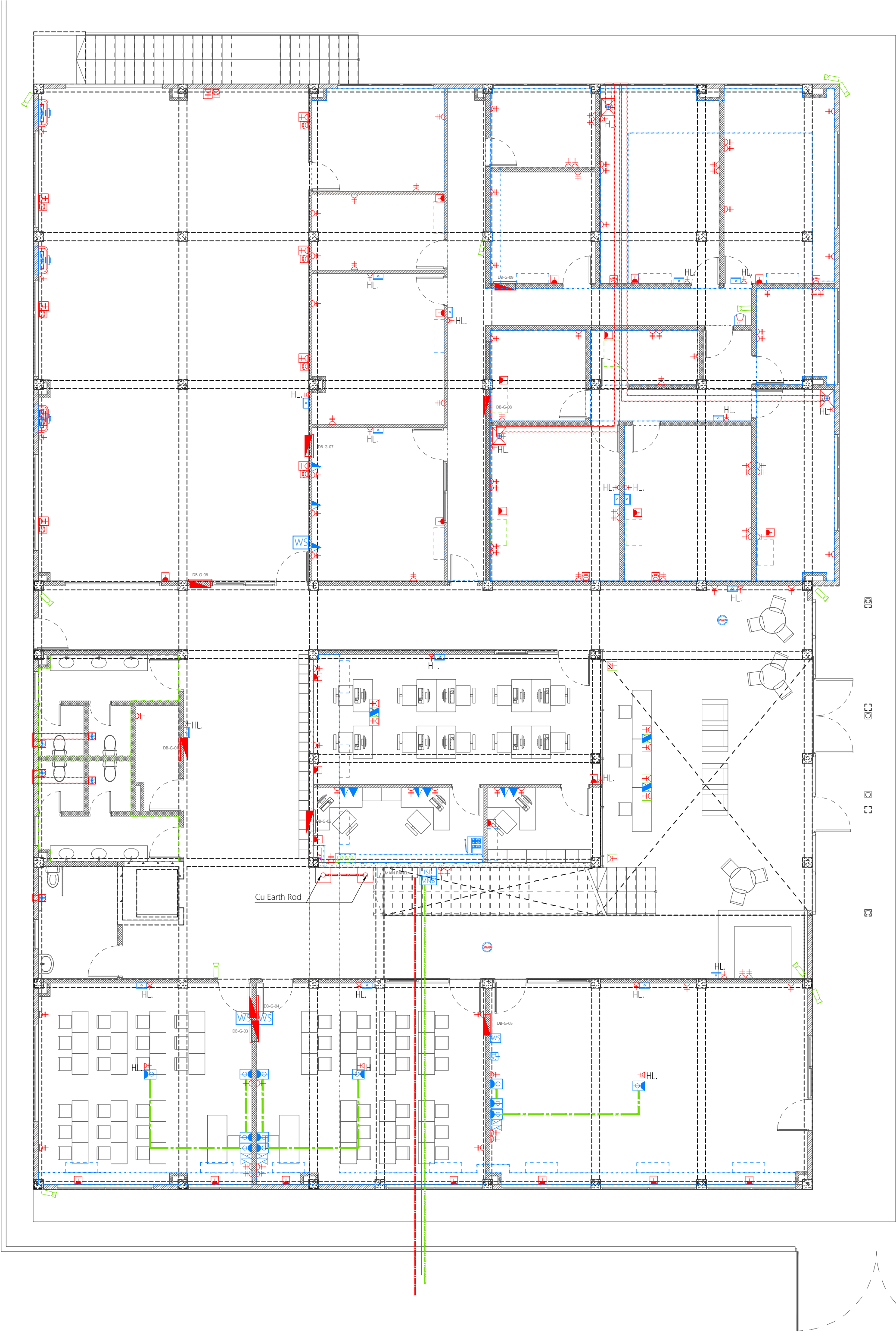


Legend

- 82Ø PVC Duct For Tel./Internet Cable Lead In Below Ground Slab
- 82Ø PVC Duct For TV Cable Lead In Below Ground Slab
- Main Incoming Cable For Power In 110Ø PVC Duct Below Ground Slab
- 13A Power Socket
- 13A Power Socket in Weatherproof Polycarbonate Enclosure
- 13A Twin Socket
- 13A Twin Socket in Weatherproof Polycarbonate Enclosure
- 15A Socket in Weatherproof Polycarbonate Enclosure
- 15A Switched Socket @ H.L.
- 20A TPN Isolator
- Distribution Board
- HL.
- High Level
- Angular Camera
- DNVR
- Digital/network Video Recorder
- Monitor
- Security Monitor
- ISB
- Internet Switchboard
- MNB
- Medianet Booster

- Telephone Outlet
- Computer Network Outlet
- TV Socket Outlet
- Emergency Light
- Computer Network Twin Outlet
- HDMI Socket
- Twin Computer Network Outlet In Floor Mount Pop-up Box
- 13A Twin Socket In Floor Mount Pop-up Box
- Wireless Access Point
- Biometric Door Lock With Card Reader at 1100
- Public Address System
- Wall Mounted Speaker
- Ceiling Mounted Exhaust Fan 90m3/hr
- Bio-Safety Fume Hood
- Double Inlet, Centrifugal Motor, 1200m3/hr (Fixed Below Roof Beam)

- Notes: -
- All Twin Sockets At 300mm From F.F.L. Except Laboratory Work Counter Areas which shall be at 1200mm from F.F.L.
 - All Computer, Telephone Points At 300mm From F.F.L.
 - All electrical components shall be connected to respective Distribution Box in the same area as the component
 - All electrical components in common areas, corridors and staircase should be connected to Common Area DB
 - Wall Speaker shall be connected to Public address system
 - Fume Hood of Bio-safety Cabinet to be installed as per equipment specification



GROUND FLOOR POWER LAYOUT

1:100

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POW-01

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Security Monitor
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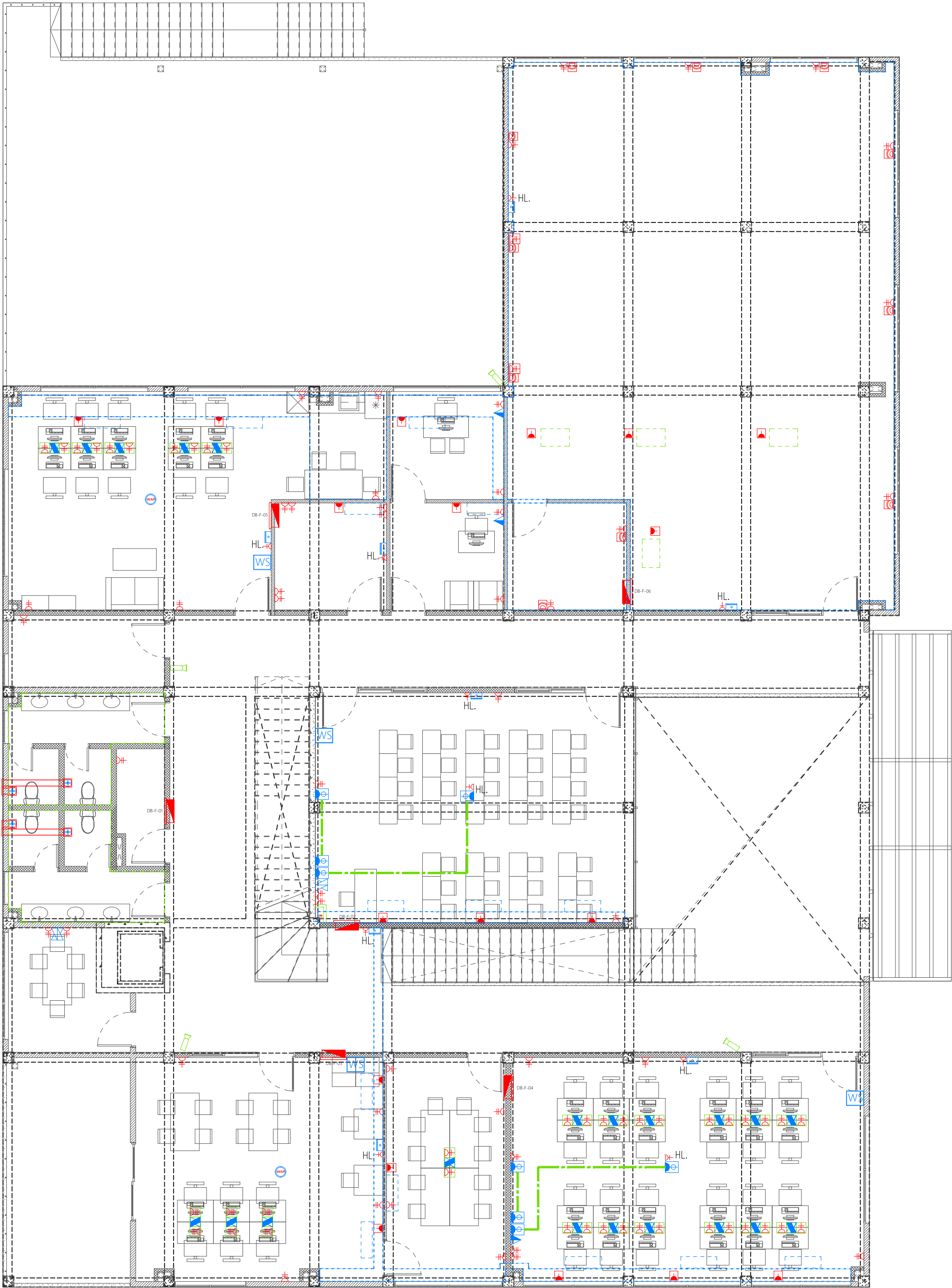
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Medianet Booster

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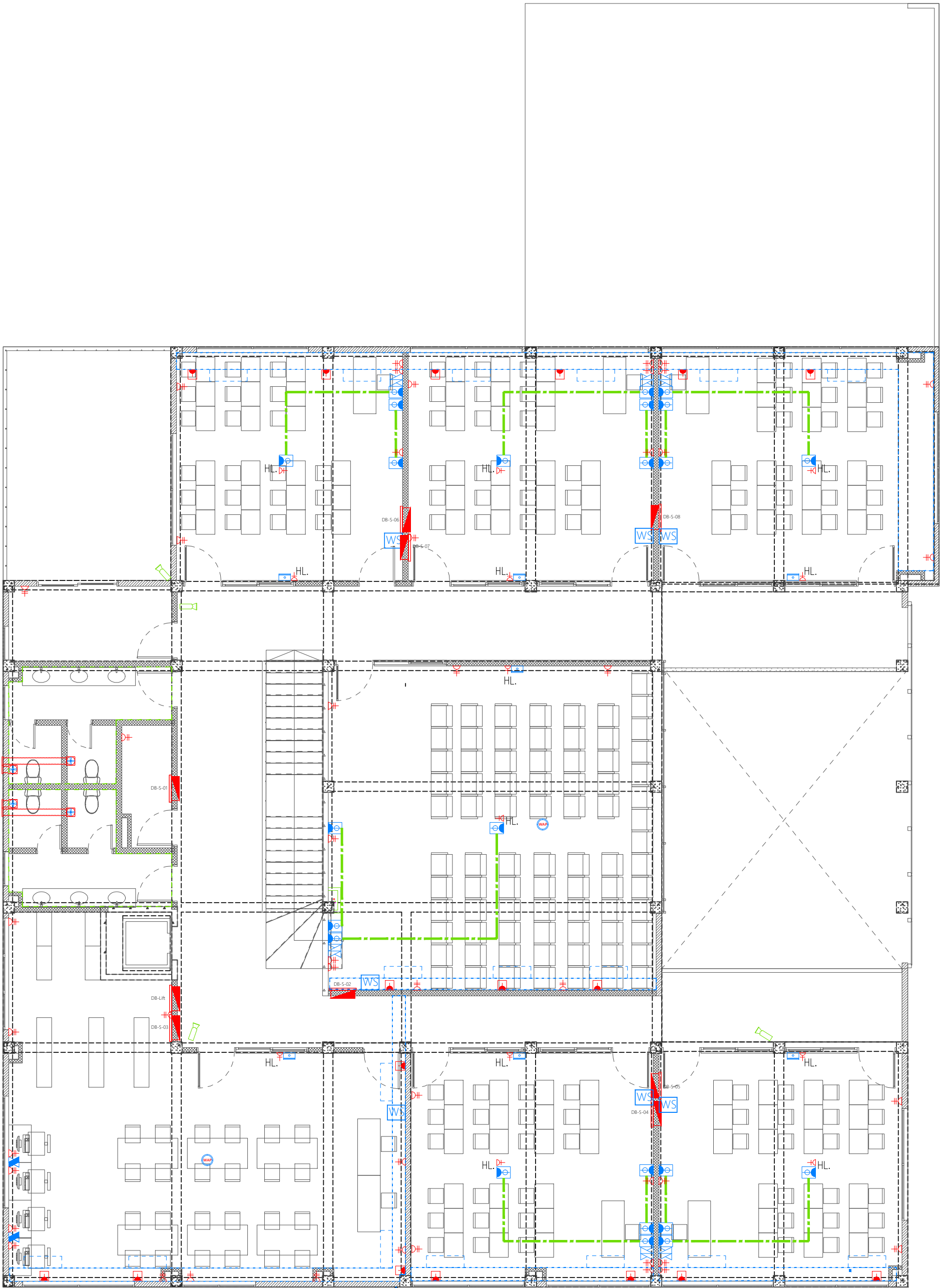
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Wall Mounted Speaker
- Ceiling Mounted Exhaust Fan 90m3/hr
- Bio-Safety Fume Hood
- Double Inlet, Centrifugal Motor, 1200m3/hr
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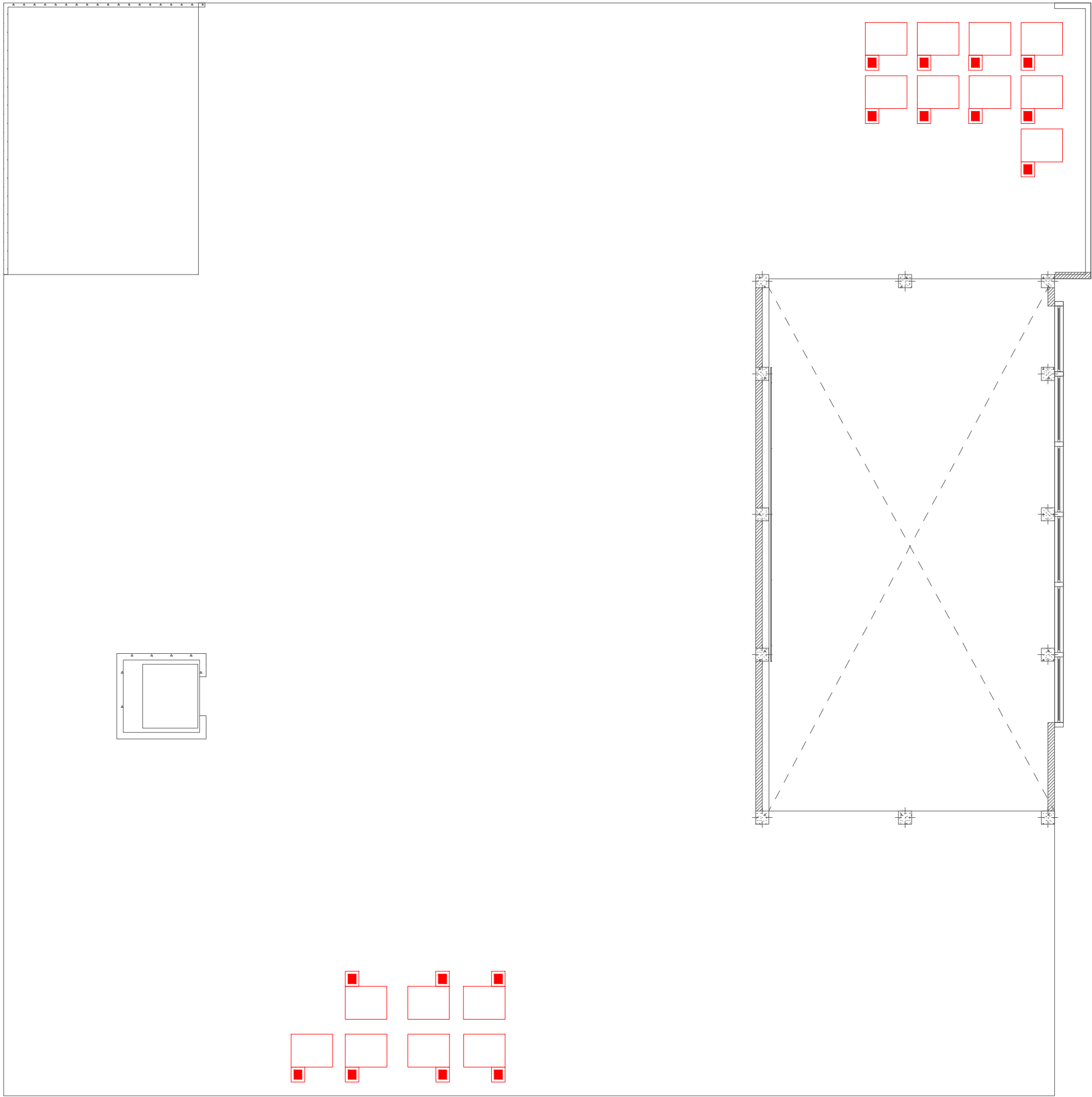


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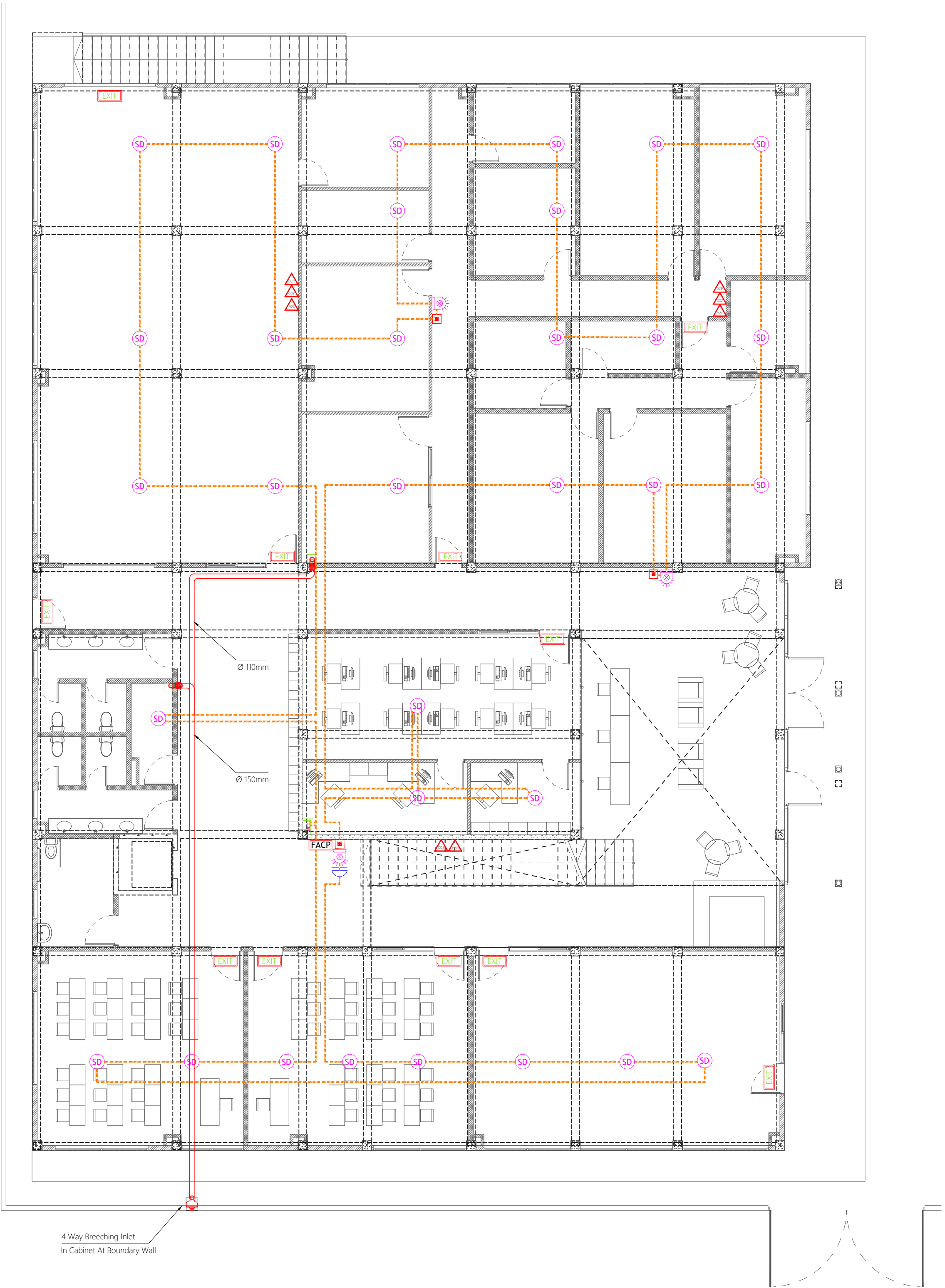
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Legend

- 2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits (Running Underground)
- 2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits (Above False Ceiling or Through Slab)
- FACP** Fire Alarm Control Panel
- EXIT** Exit Sign
- CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
- H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
- DCP Extinguisher (load: 6kg) In Polycarbonate Enclosure
- Manual Call Point (At 1200mm from F.F.L.)
- Smoke Detector
- Beacon
- Sounder Bell
- Landing Valve

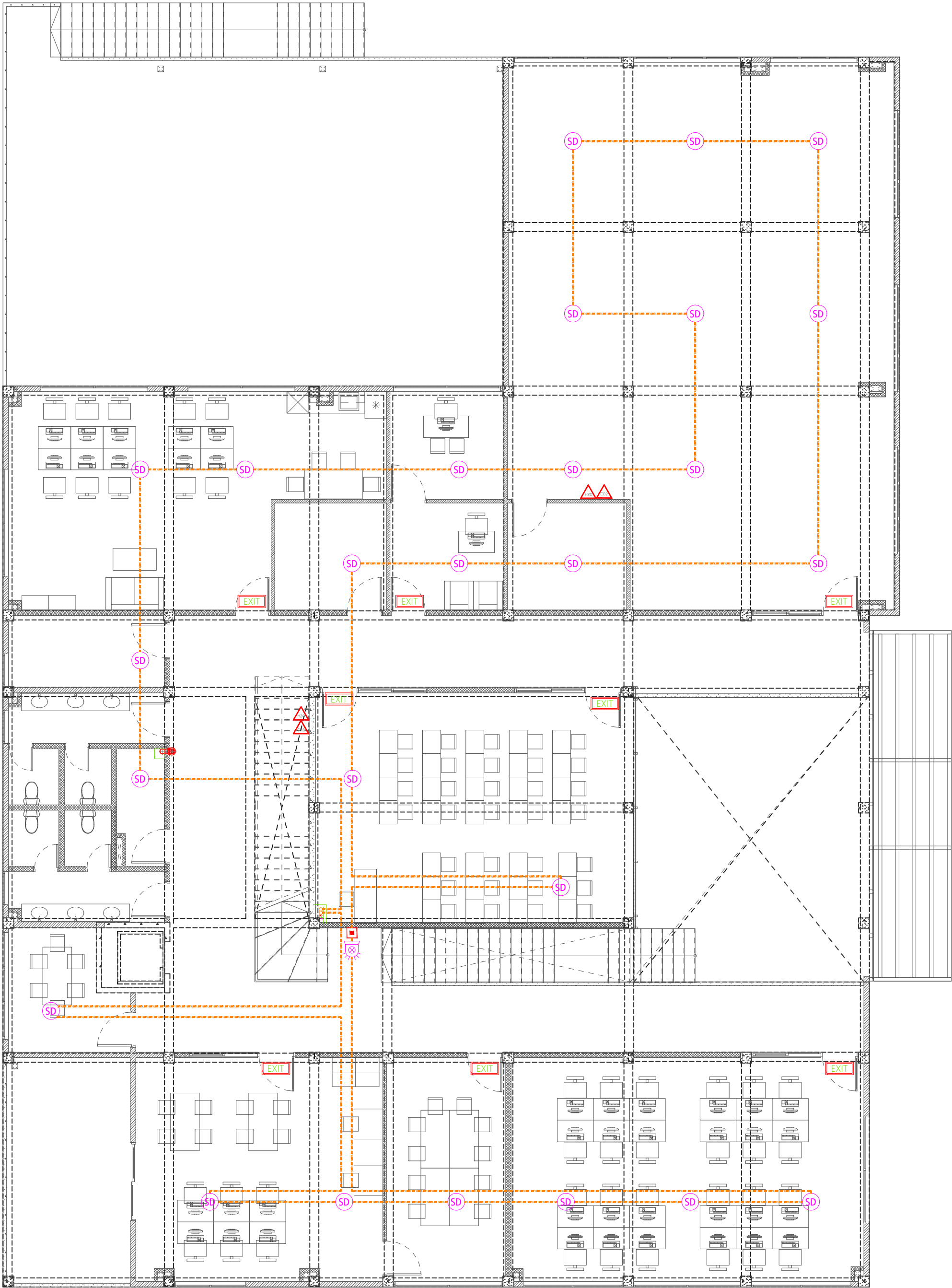
1. ALL DRY RISER PIPES SHOULD BE GALVANIZED, SCHEDULE 40.
2. ALL DRY RISER PIPES SHALL BE PAINTED IN RED AS PER REGULATION.
3. ALL SUPPORT/BACKET SHALL BE HOT DIPPED GALVANIZED.



Legend

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Legend


- 


Indoor Wall Light (18W)
- 


Ceiling Lights With Motion Sensor (12W)
- 


Ceiling Light (18W)
- 


Ceiling Light (12W)
- 


Recessed Ceiling Light (12W)
- 


Ceiling Down Light (18W) - Weather Proof
- 


100W, LED, Low Bay Light
- 


Track Lights (3x7W)
- 


3 Ft Led Tube Light
- 


Ceiling Mount Spot Light (15W)
- 


Weather Proof Wall Light IP55 (12W)
- 


Wall Light - Weather Proof Ip55 (low Level 8W)
- 


Bollard Light IP65 (12W)
- 

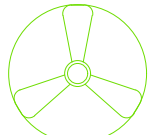
Decorative Pendent Light
- 


Light and Fan Switch (1 Gang - 6 Gang)
- 


Ceiling Fan Switch With Controller
- 

Ceiling Mounted Exhaust Fan 90m3/hr
- 

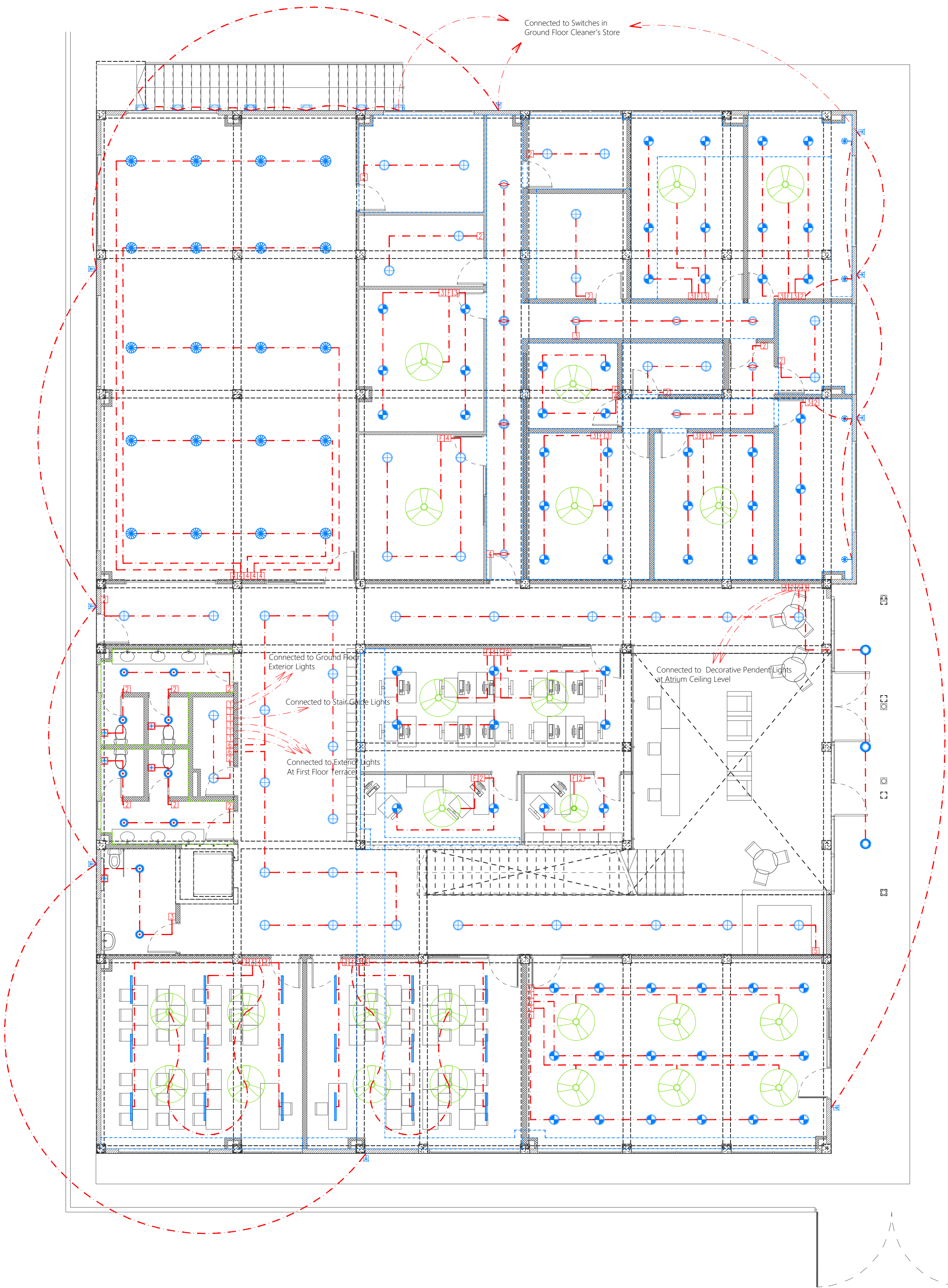
Oscillating Ceiling Fan
- 

29" To 36" Ceiling Fan
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Cement Board False Ceiling [200mm below beam bottom]
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Legend


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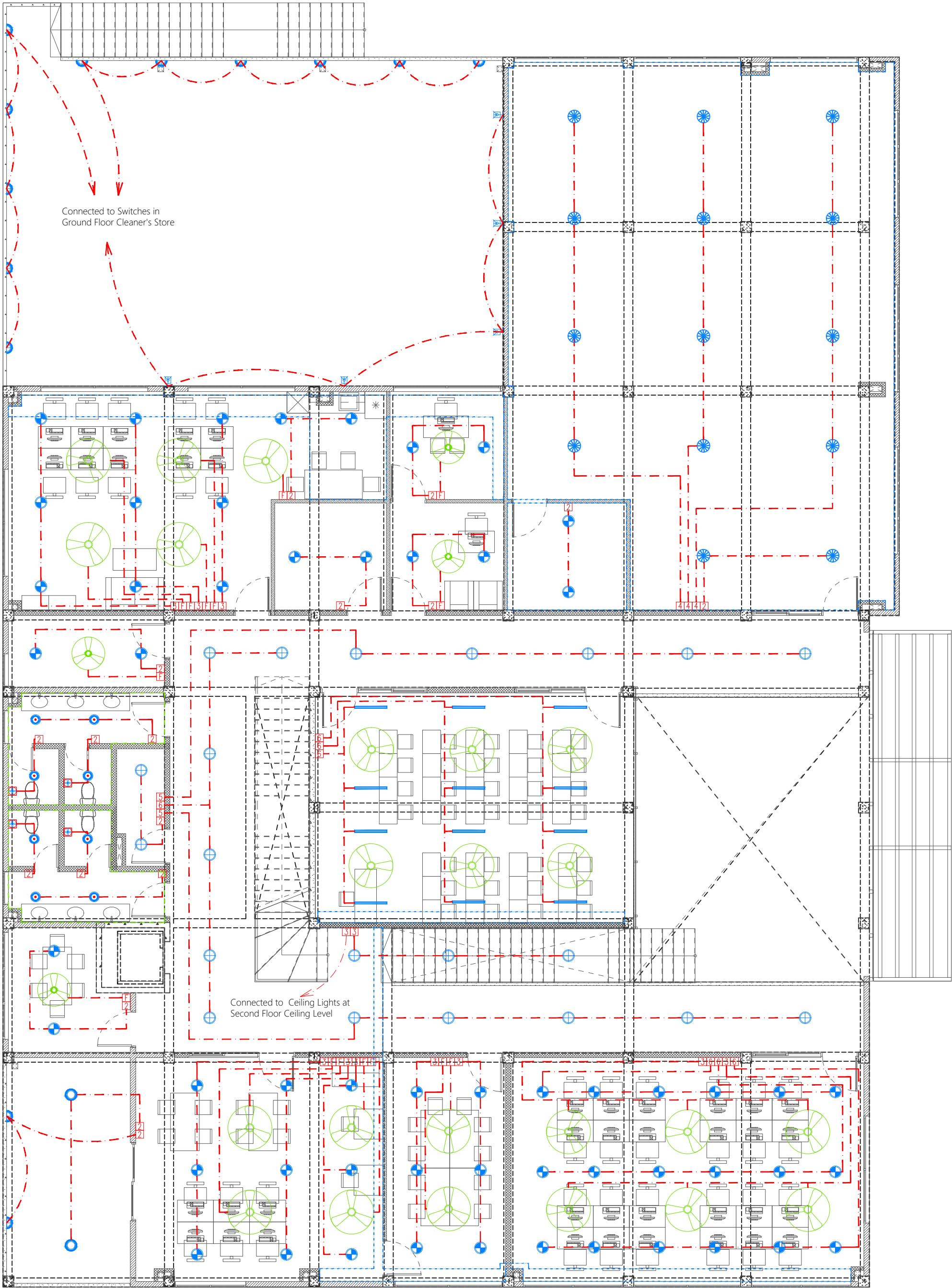
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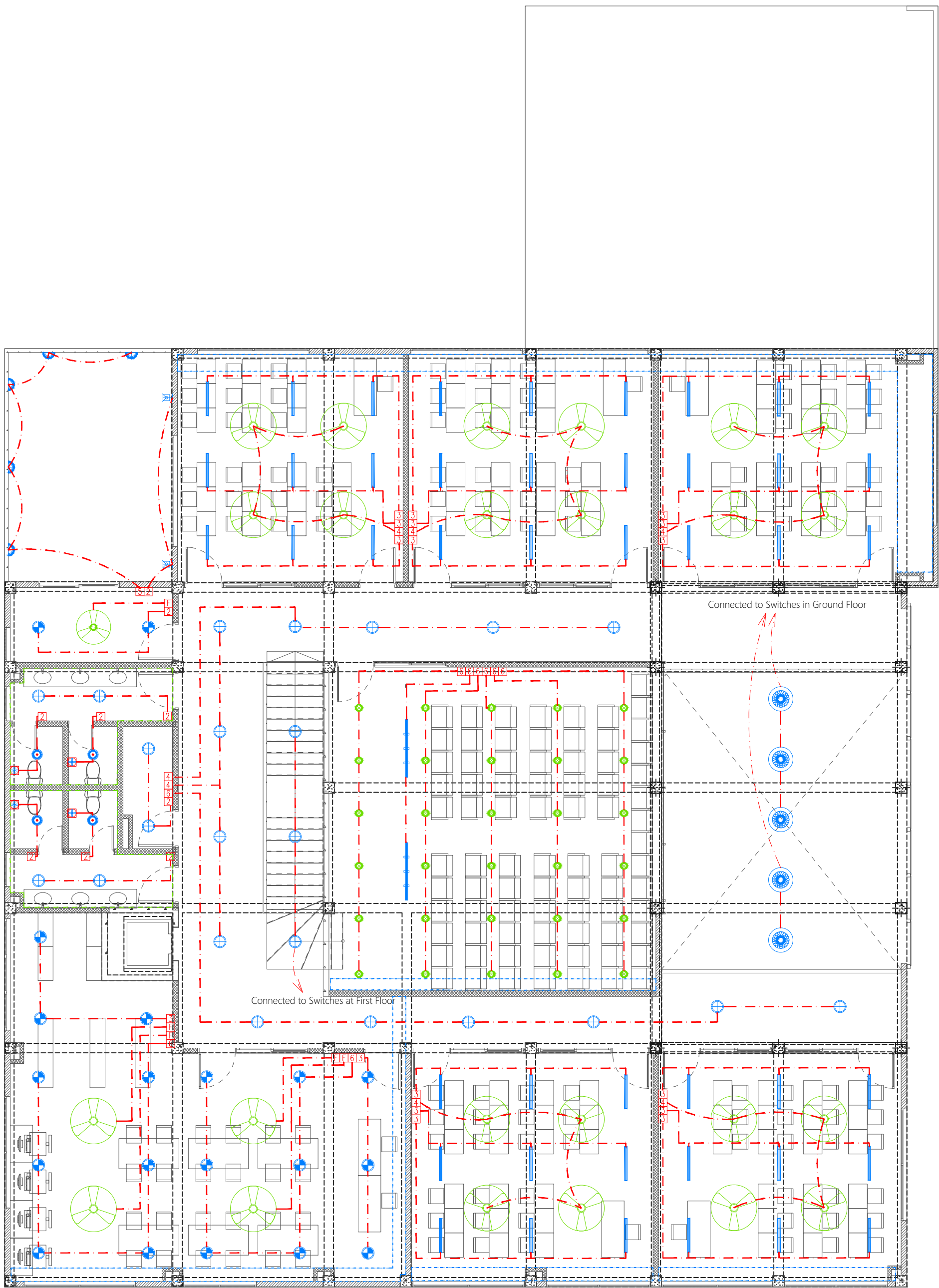
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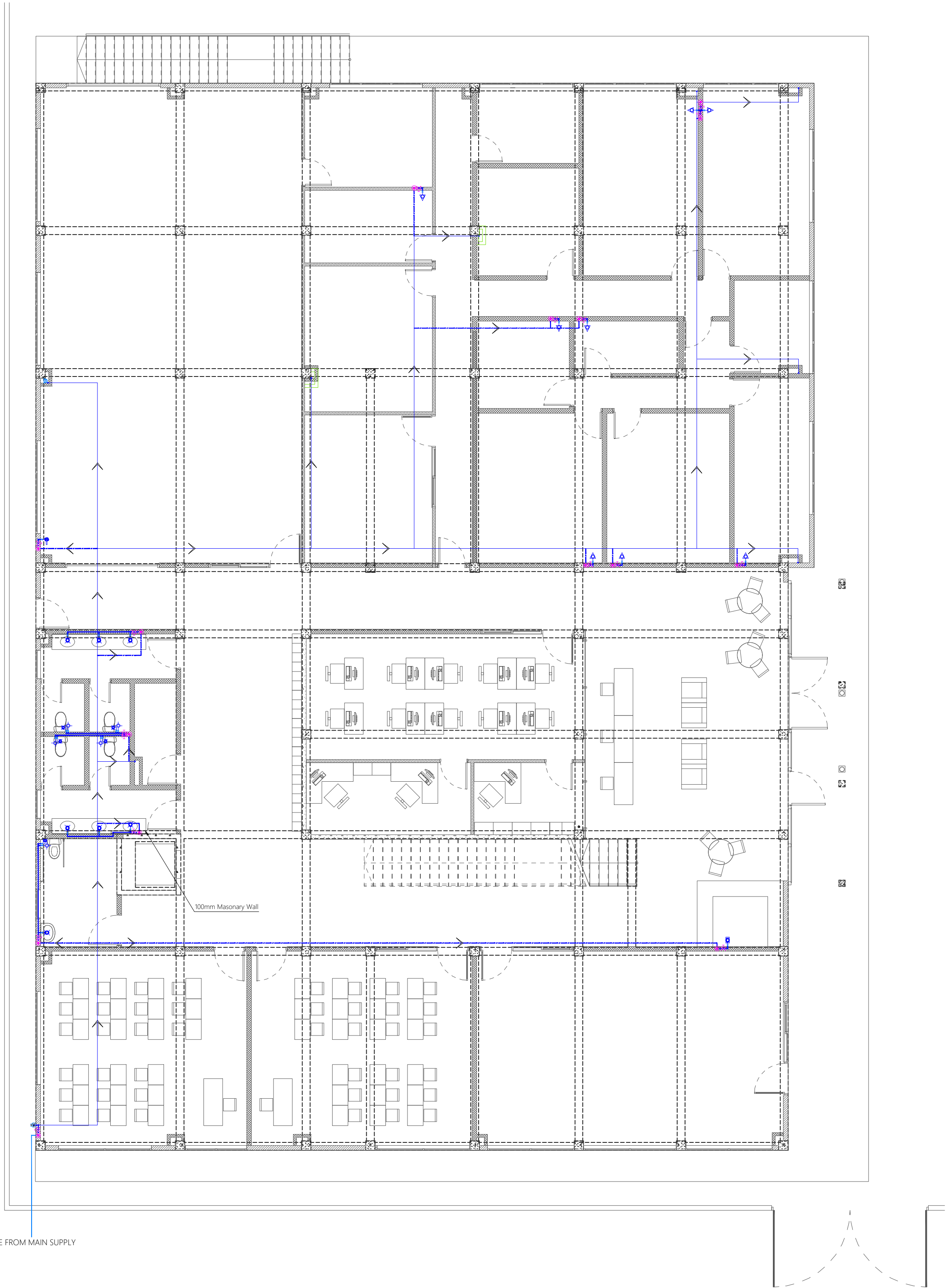


Legend

- MWSC Meter
- 16Ø Cold Water Supply To Basin Faucet
- 16Ø Cold Water Supply To Bidet Shower
- 16Ø Cold Water Supply To Cistern
- 16Ø Cold Water Supply To Sink Tap
- 16Ø Cold Water Supply To Bib Tap
- Gate Valve
- Rise In Wall
- Drop In Wall
- 25Ø Cold Water Supply Pipes Running Underground
- 20Ø Cold Water Supply Pipes Running In Wall
- 20Ø Cold Water Supply Pipes Running Above False Ceiling
- 20Ø Cold Water Supply Pipes Running Underground

Notes: -

- All Cold Water Pipes Should Be PVC
- All Hot Water Pipes Should Be PPR



GROUND FLOOR PLUMBING LAYOUT

1:100

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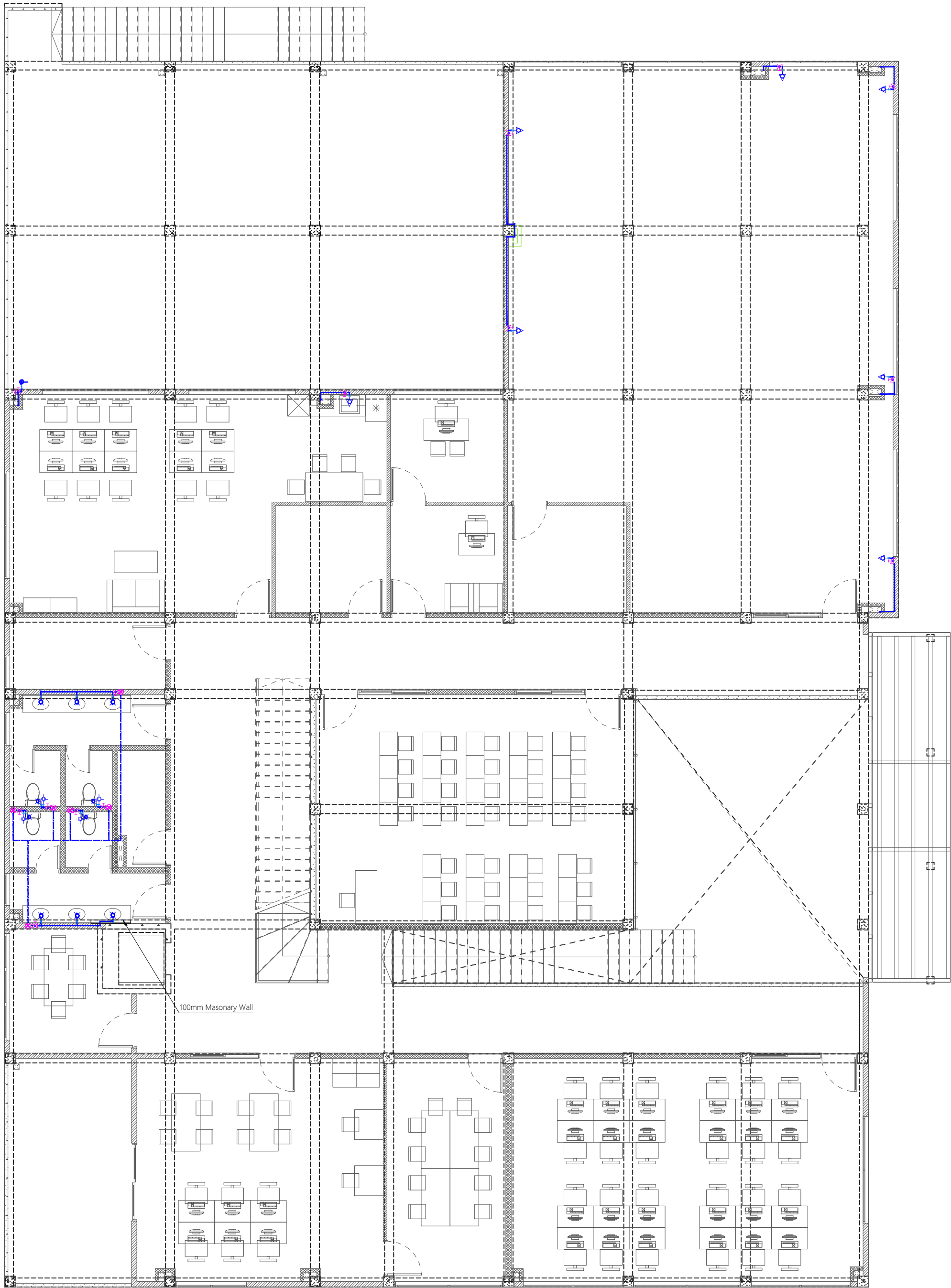
PL-01

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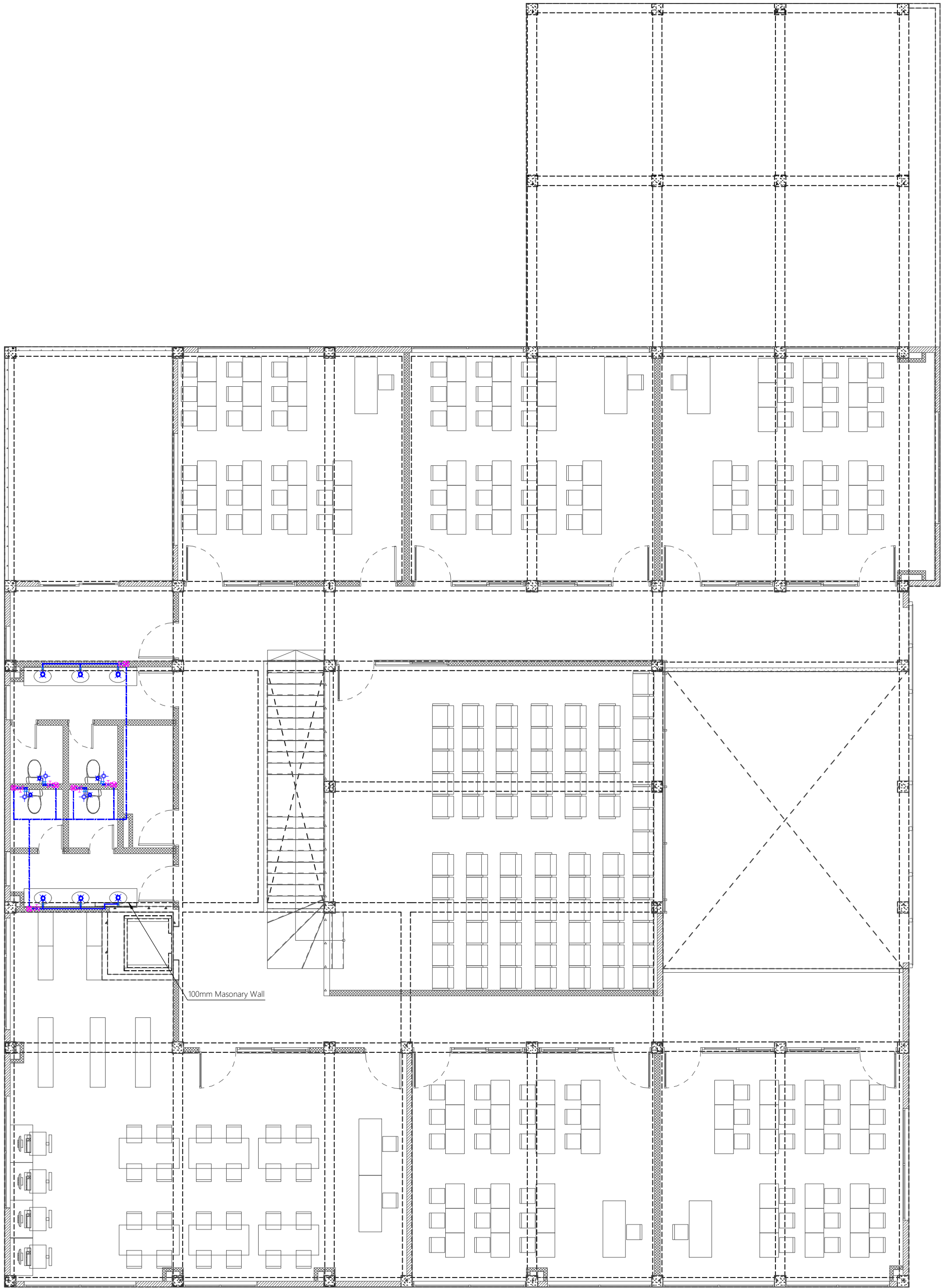
PL-02

Legend

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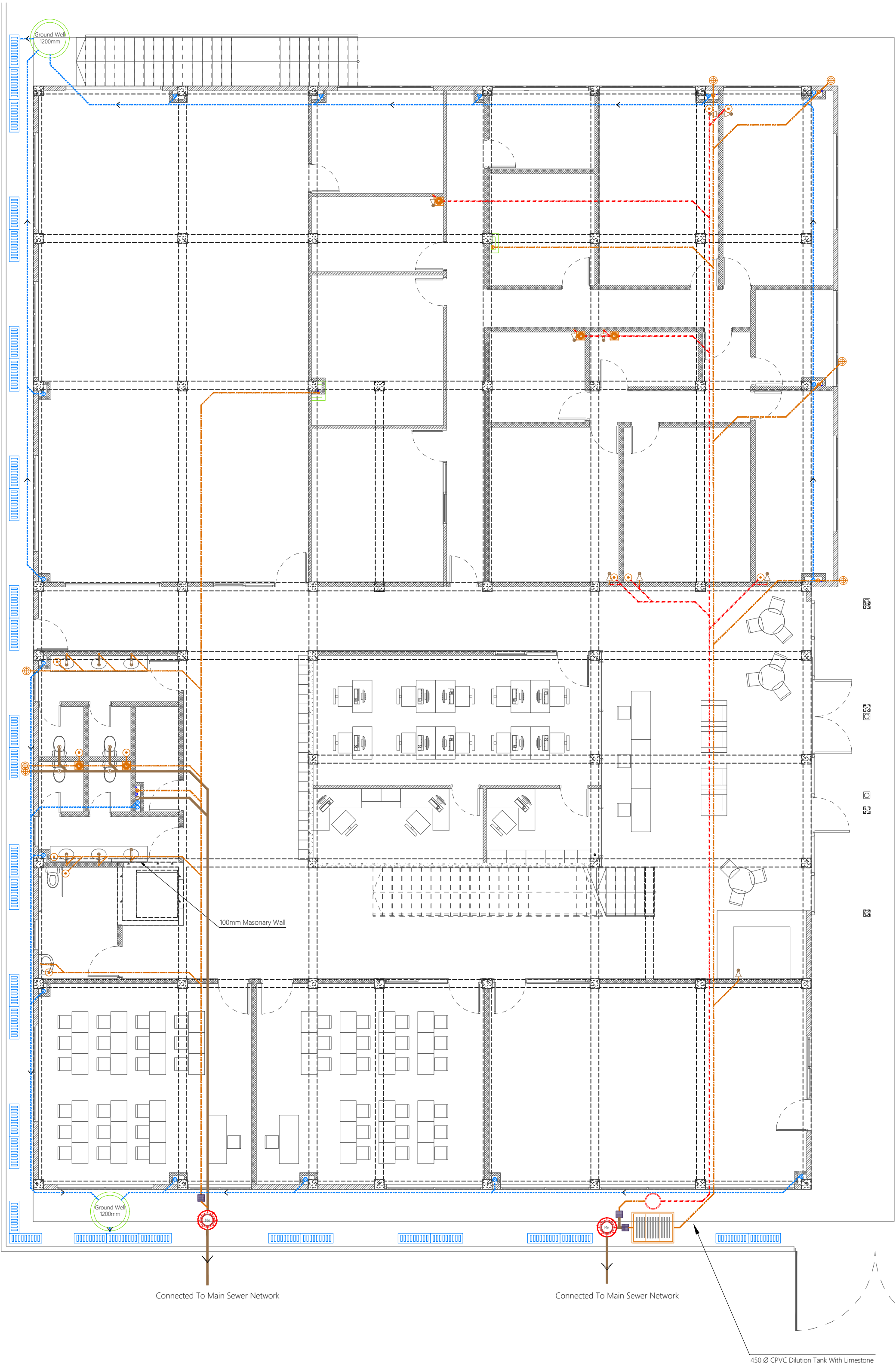
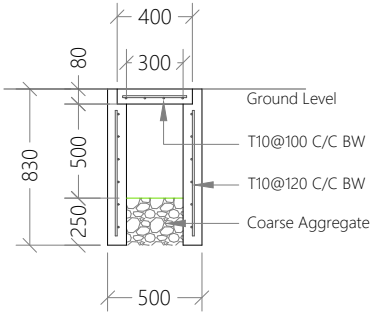
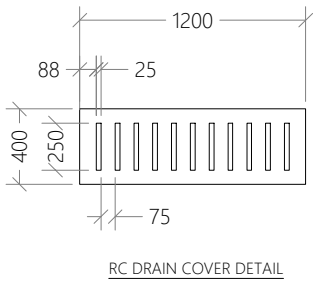


Legend

- Floor Drain
- Floor Gully
- Rodding Eye
- Bottle Trap
- Bottle Trap for Sink
- Gully Trap
- 110Ø Rainwater Outlet
- 110Ø Soil Pipe (uPVC Pipe)
- 110Ø Soil Vent Pipe (uPVC Pipe)
- 82Ø Waste Pipe (uPVC Pipe)
- 82Ø Waste Vent Pipe (uPVC Pipe)
- 40Ø Waste Pipe (uPVC Pipe)
- 82Ø Lab Waste Pipe (CPVC Pipe)
- 82Ø Lab Waste Vent Pipe (CPVC Pipe)
- 63Ø Manhole Vent Pipe (uPVC Pipe)
- 110Ø Rain Water Pipes (uPVC Pipe)

- Manhole
- 950 x 1300 Grease Trap
- Precast Concrete Grate With 500mm Deep Concrete Drain Trench Without Base

Notes: -
-All Drainage Pipes Should Have At A Slope Of 1/150
-All Floor Drains Should Have 'P' Traps



GROUND FLOOR DRAINAGE LAYOUT

1:100

Proposed
**Center of Excellence
for Food Processing
and Fisheries
Ha. Dhidhdhoo**

Client
Ministry of Higher Education

09/12/2021

Services By **Mohamed Rassam**
Checked By **Mohamed Zaidhan**
Drawn By



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Hunuweera Magu, Male', Maldives

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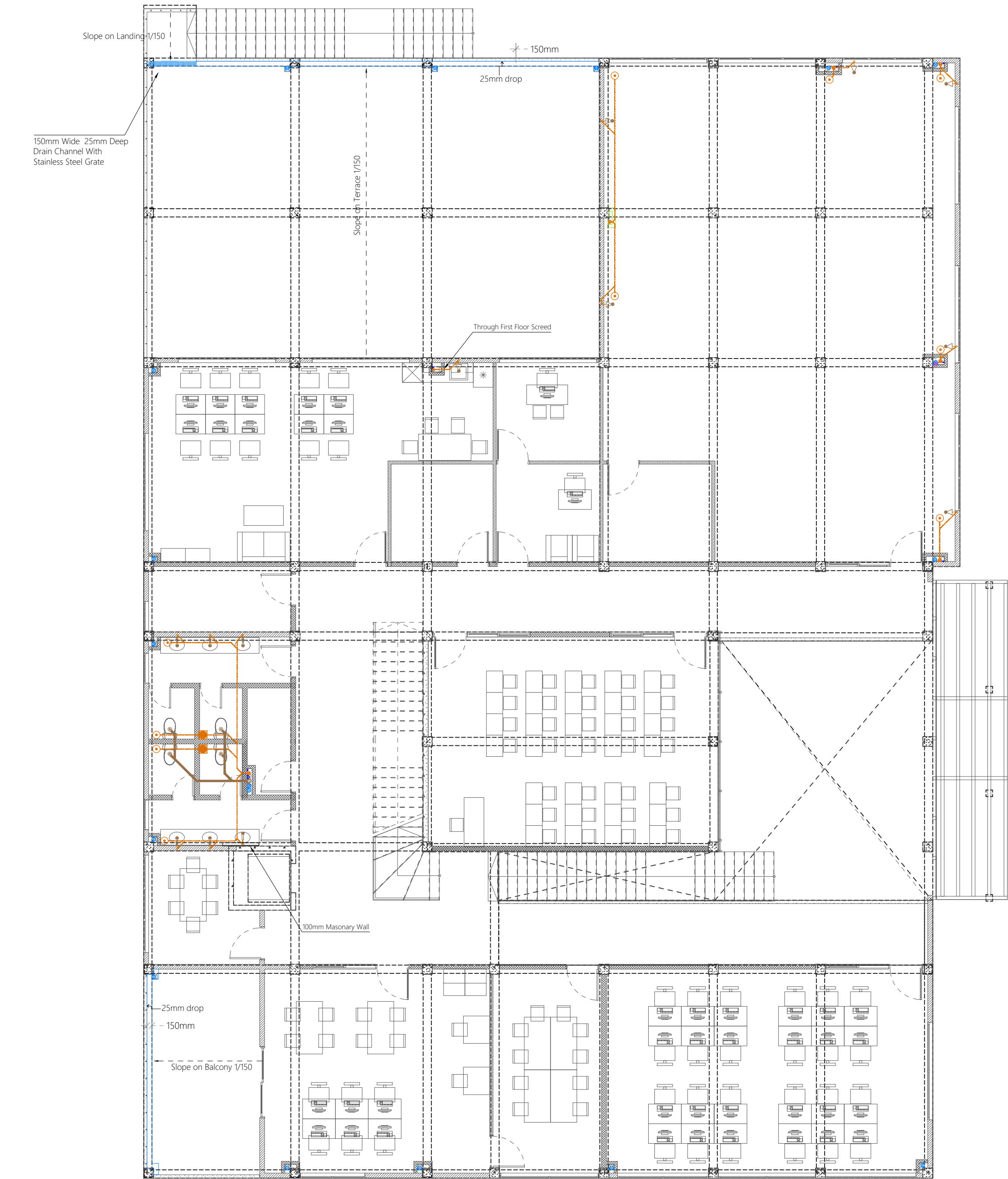
DR-01

Legend

- Floor Drain
- Floor Gully
- Rodding Eye
- Bottle Trap
- Bottle Trap for Sink
- Gully Trap
- 110Ø Rainwater Outlet
- 110Ø Soil Pipe (uPVC Pipe)
- 110Ø Soil Vent Pipe (uPVC Pipe)
- 82Ø Waste Pipe (uPVC Pipe)
- 82Ø Waste Vent Pipe (uPVC Pipe)
- 40Ø Waste Pipe (uPVC Pipe)
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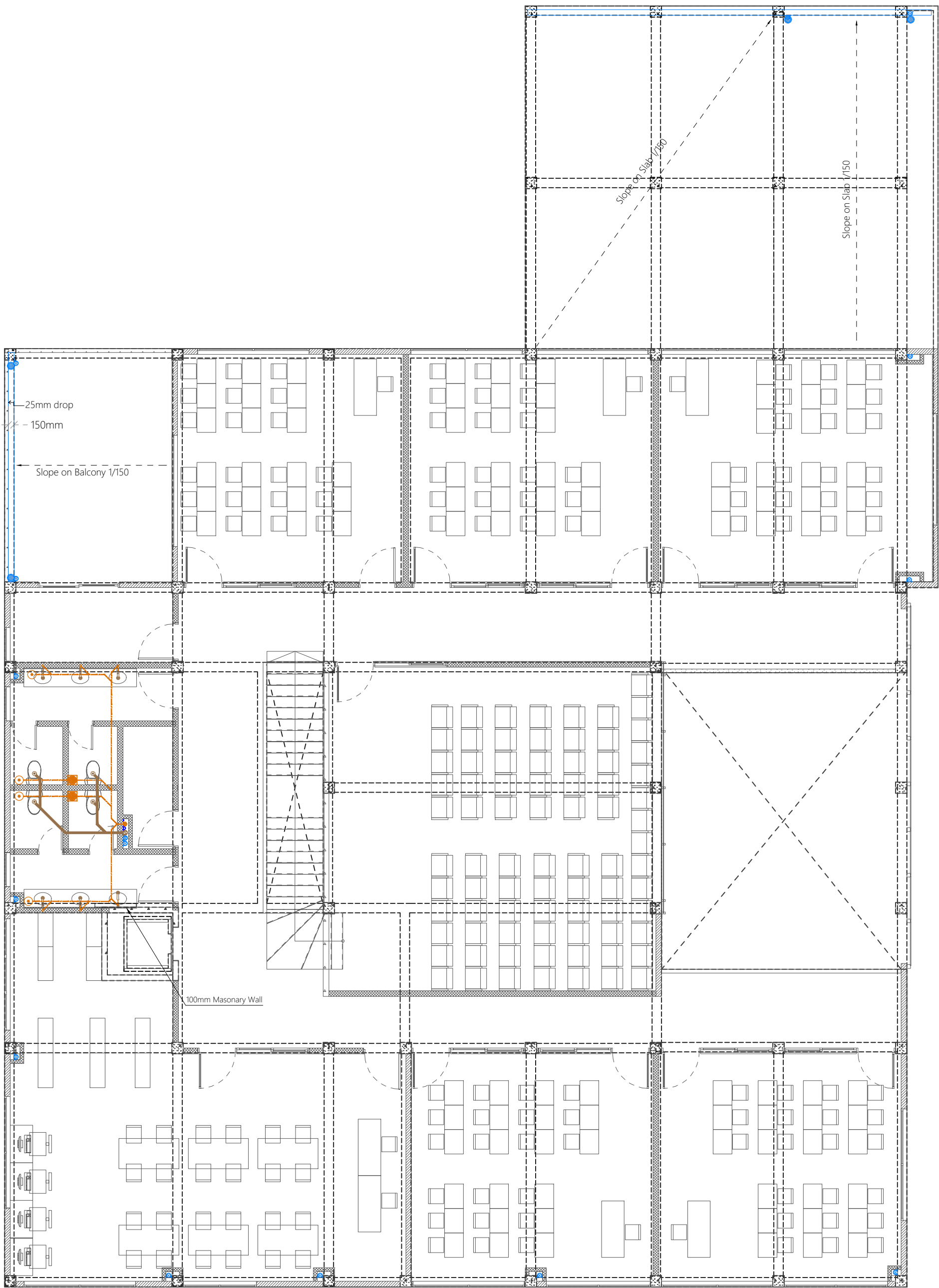


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










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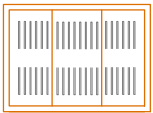

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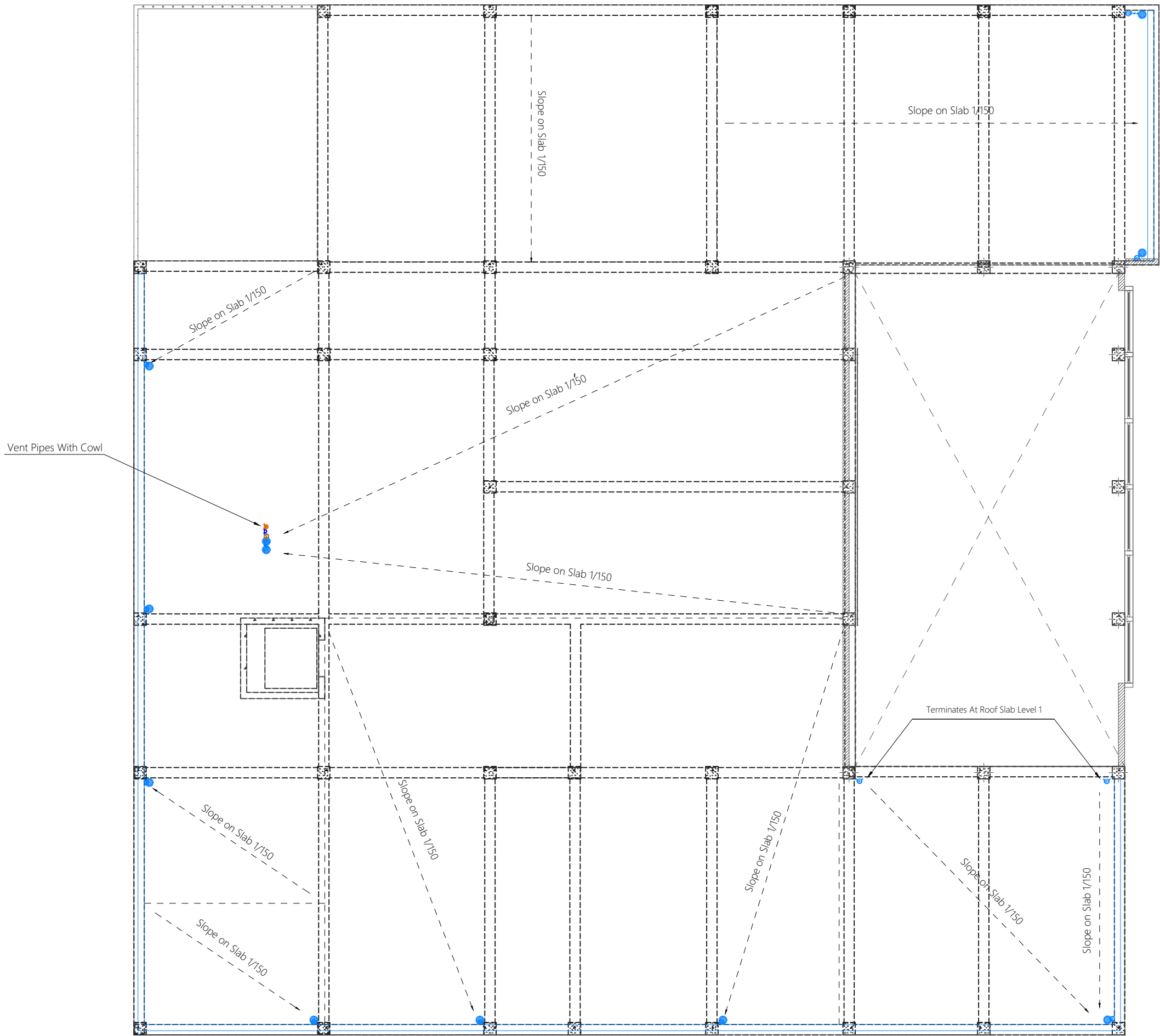
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-All Floor Drains Should Have 'P' Traps



Legend

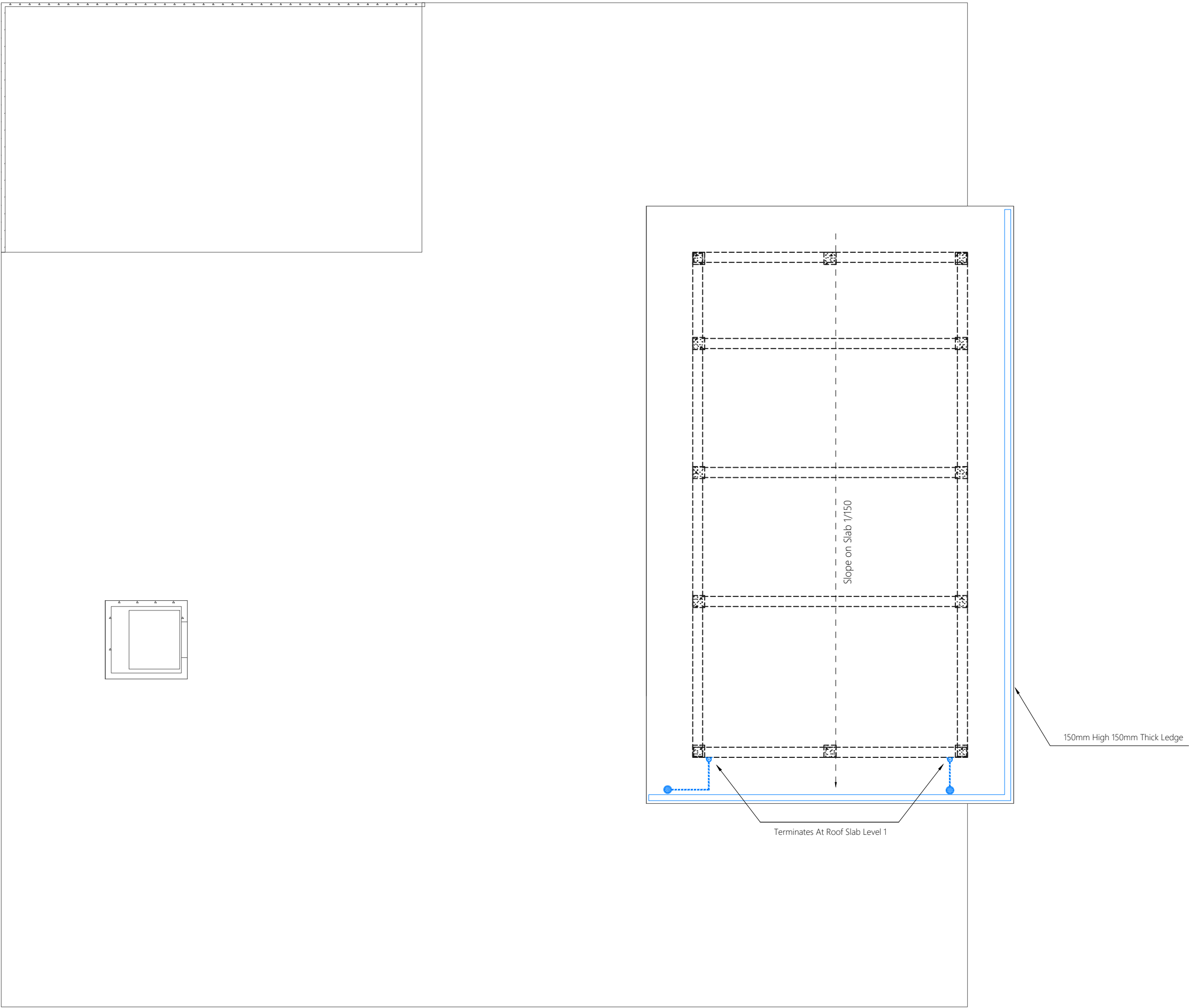
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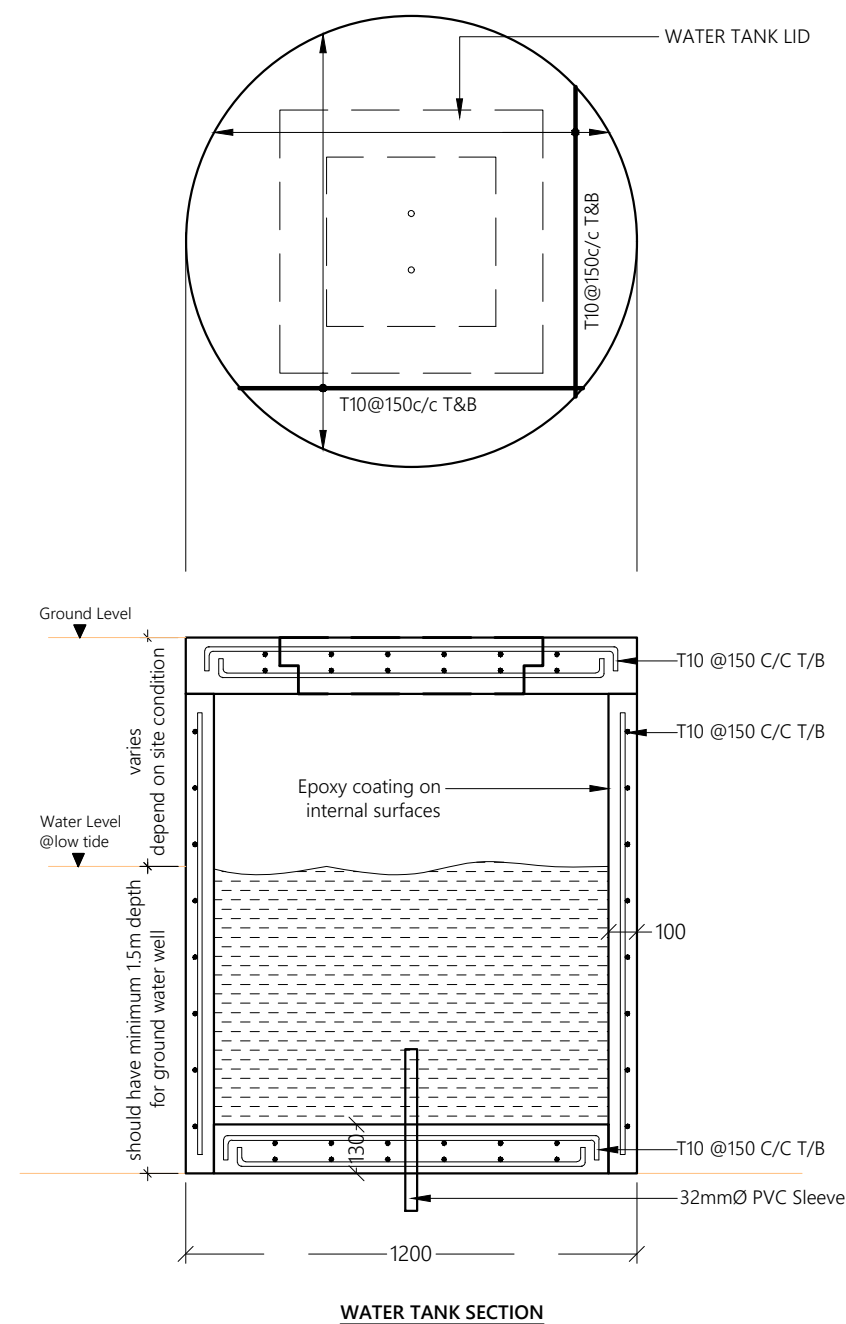
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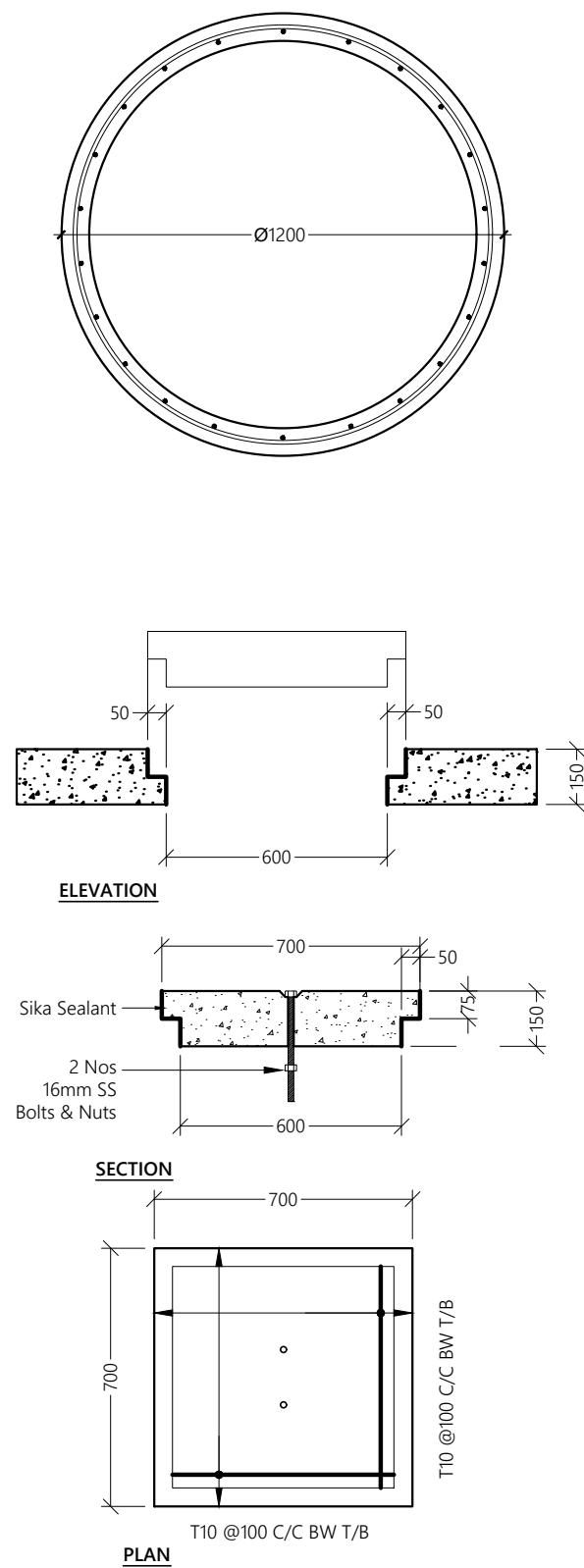
WATER TANK WALL TOP & BOTTOM SLAB



Note:
All concrete works below ground and at terrace level to be treated with waterproofing chemical

GROUND WATER WELL DETAIL

GROUND WELL WALL REINF.



WATER TANK LID DETAILS

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