



# TVET Center Education Block R. Alifushi

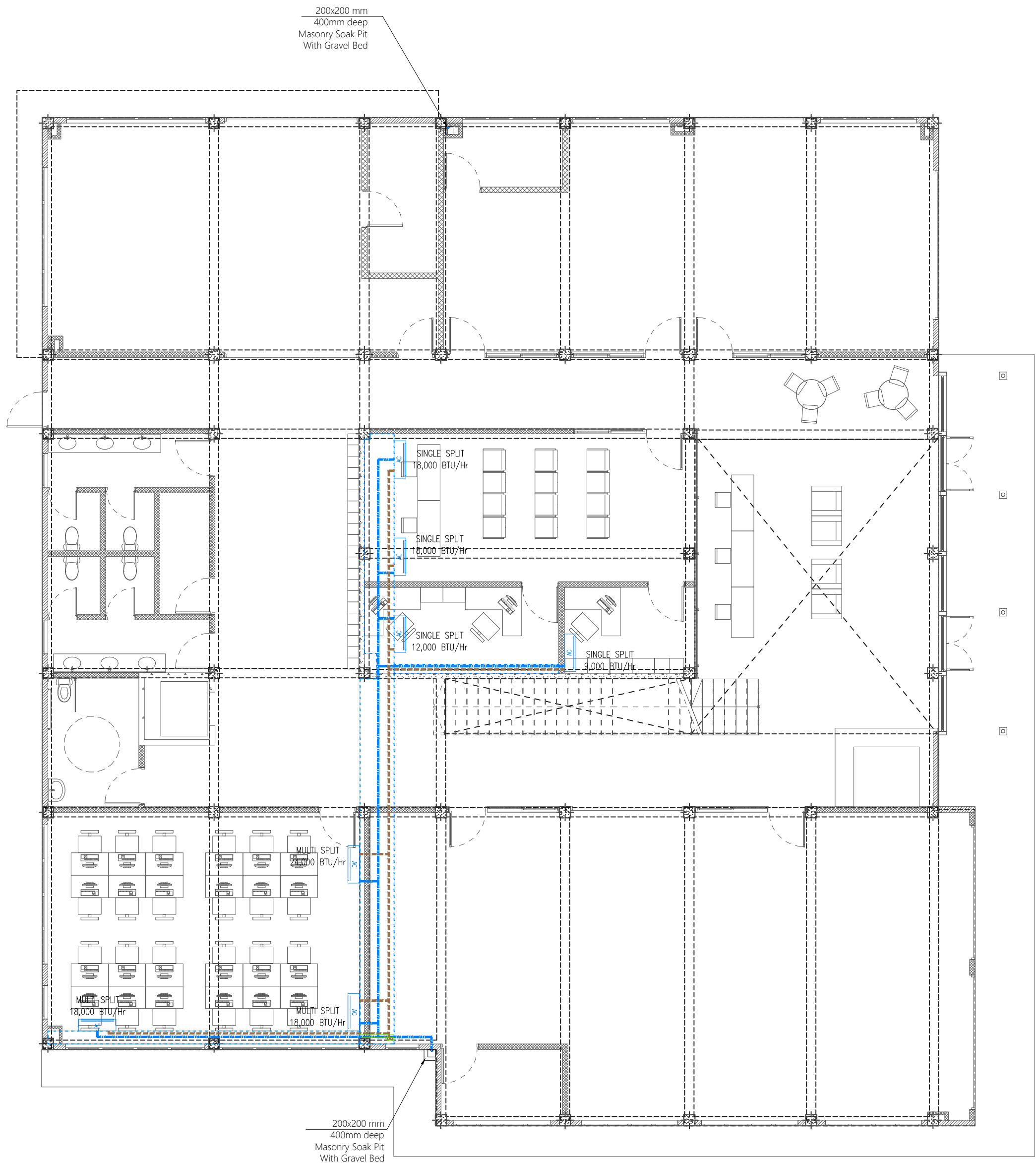
BUILDING SERVICES DRAWINGS

Ministry of Higher Education




Legend


- Refrigerant Pipes
- 25Ø Condensate Drain Pipe
- 40Ø Condensate Drain Riser Pipe
- AC
- Wall Mount Air Conditioner
- VRV Outdoor Condensing Unit








Legend

- 

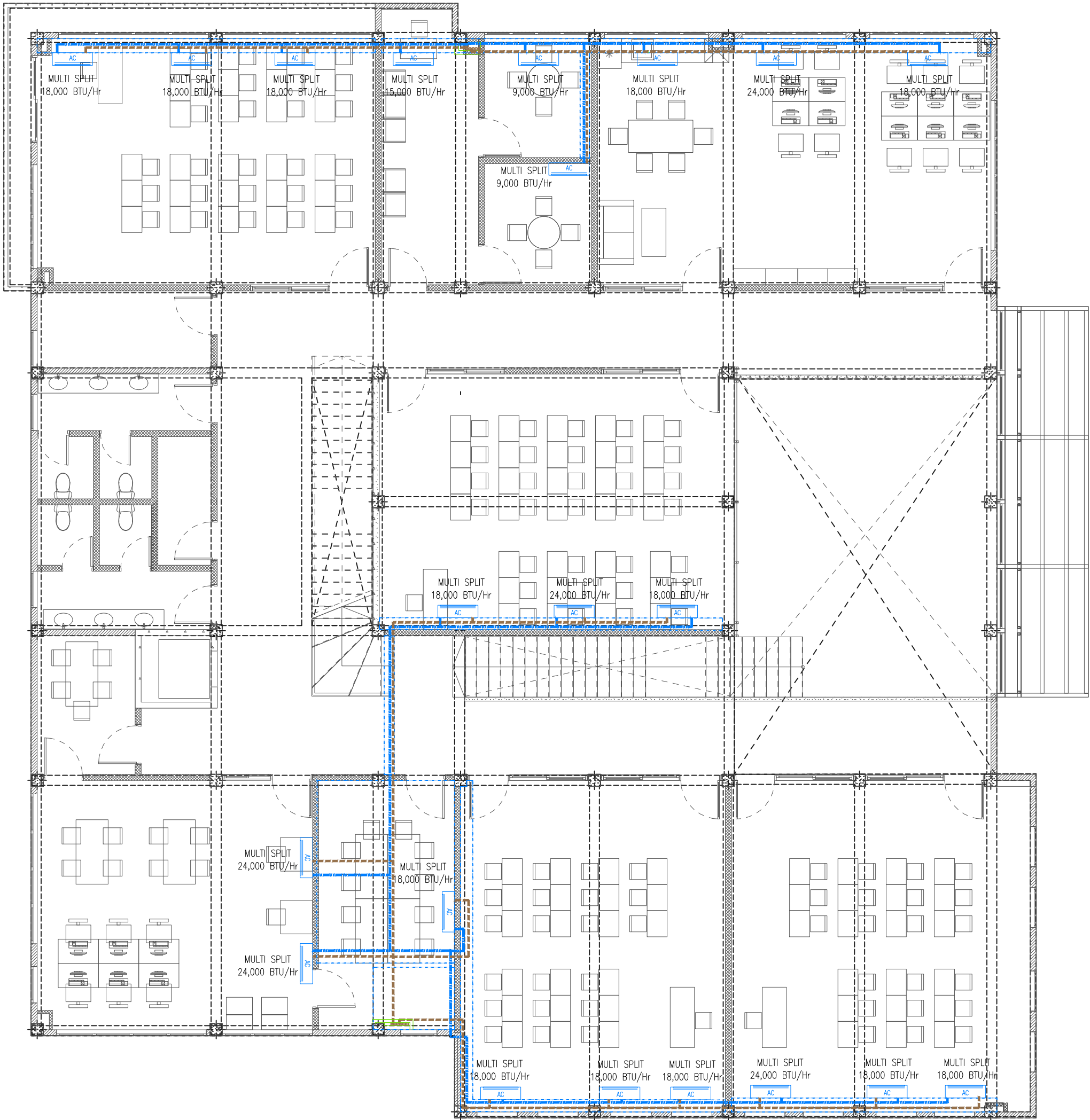
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Wall Mount Air Conditioner
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VRV Outdoor Condensing Unit








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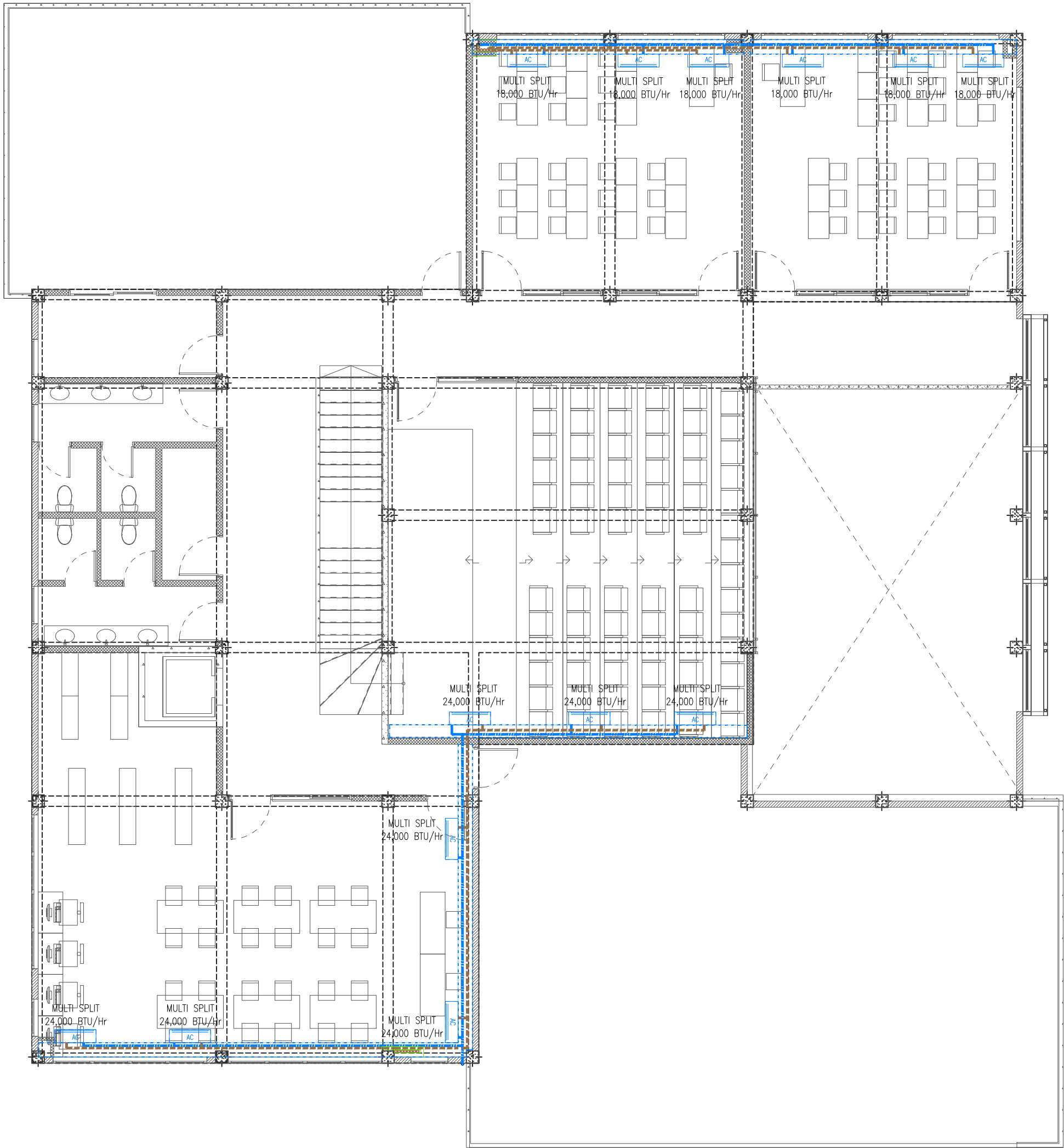
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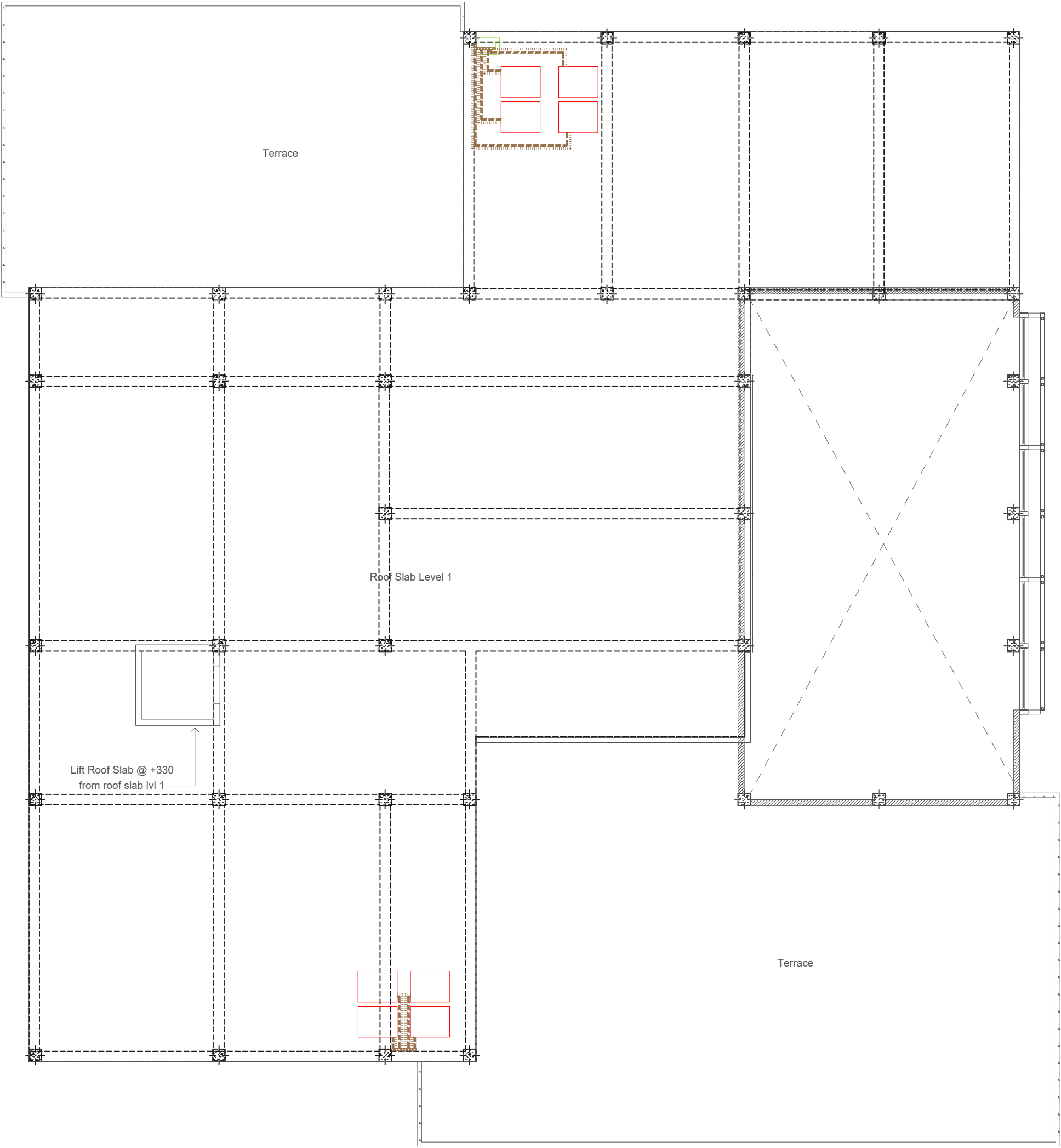
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VRV Outdoor Condensing Unit





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
- Digital/network Video Recorder
- Monitor

Security Monitor
- ISB

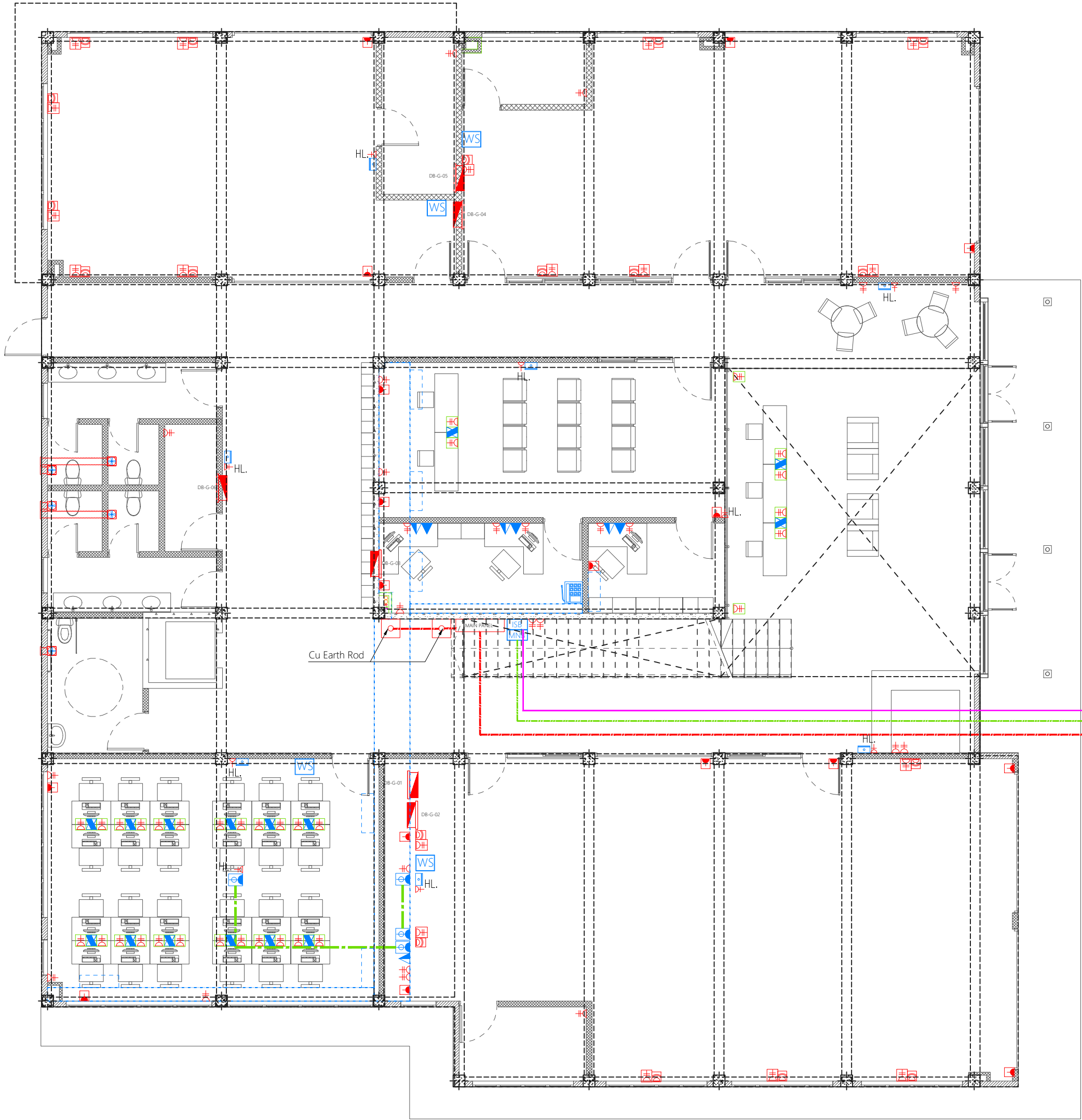
Internet Switchboard
- MNB

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
- Public Address System
- WS

Wall Mounted Speaker
- Ceiling Mounted Exhaust Fan 90m3/hr

Notes: -

- All Twin Sockets At 300mm From F.F.L. Except Stated Otherwise
- 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





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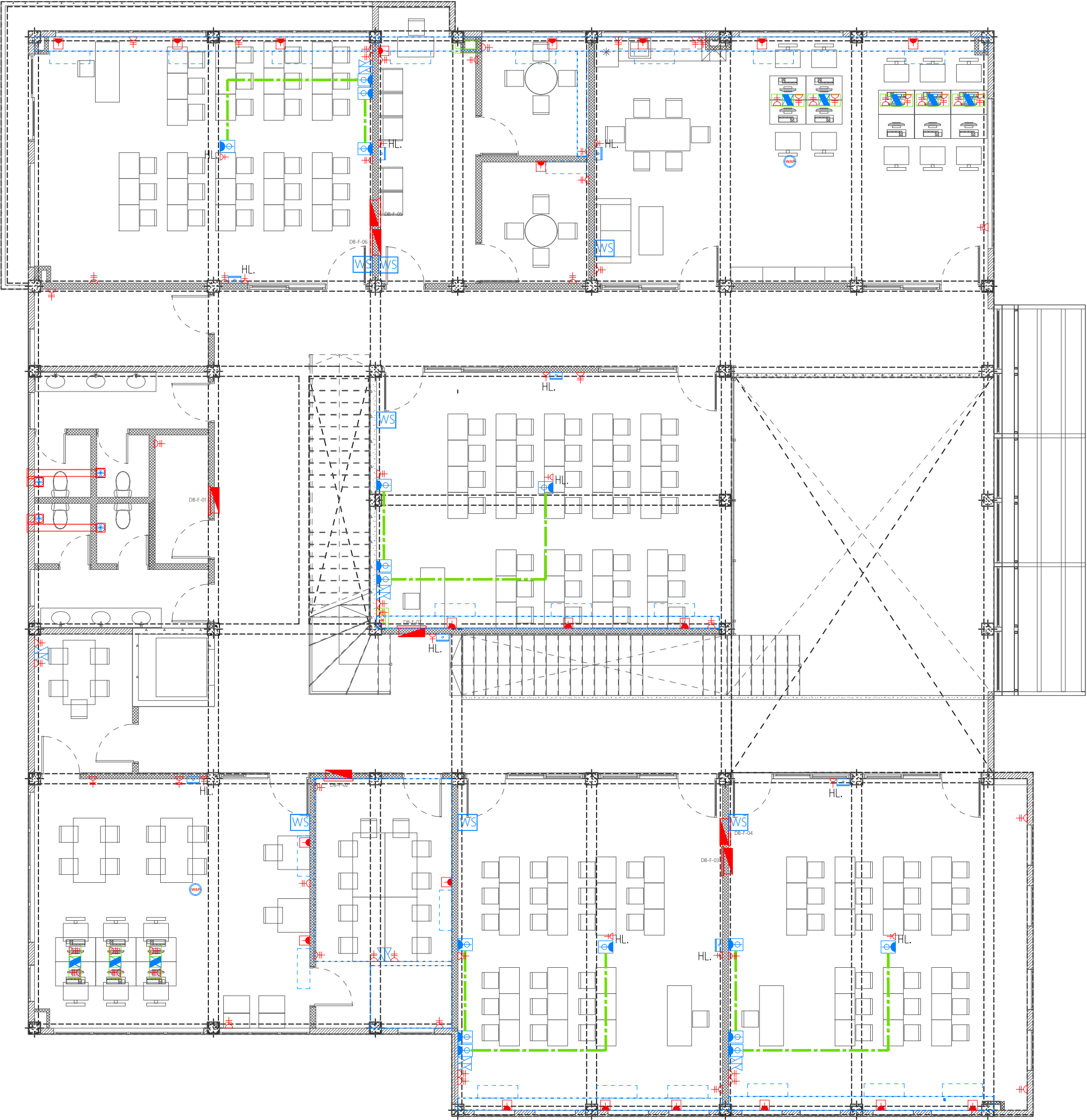
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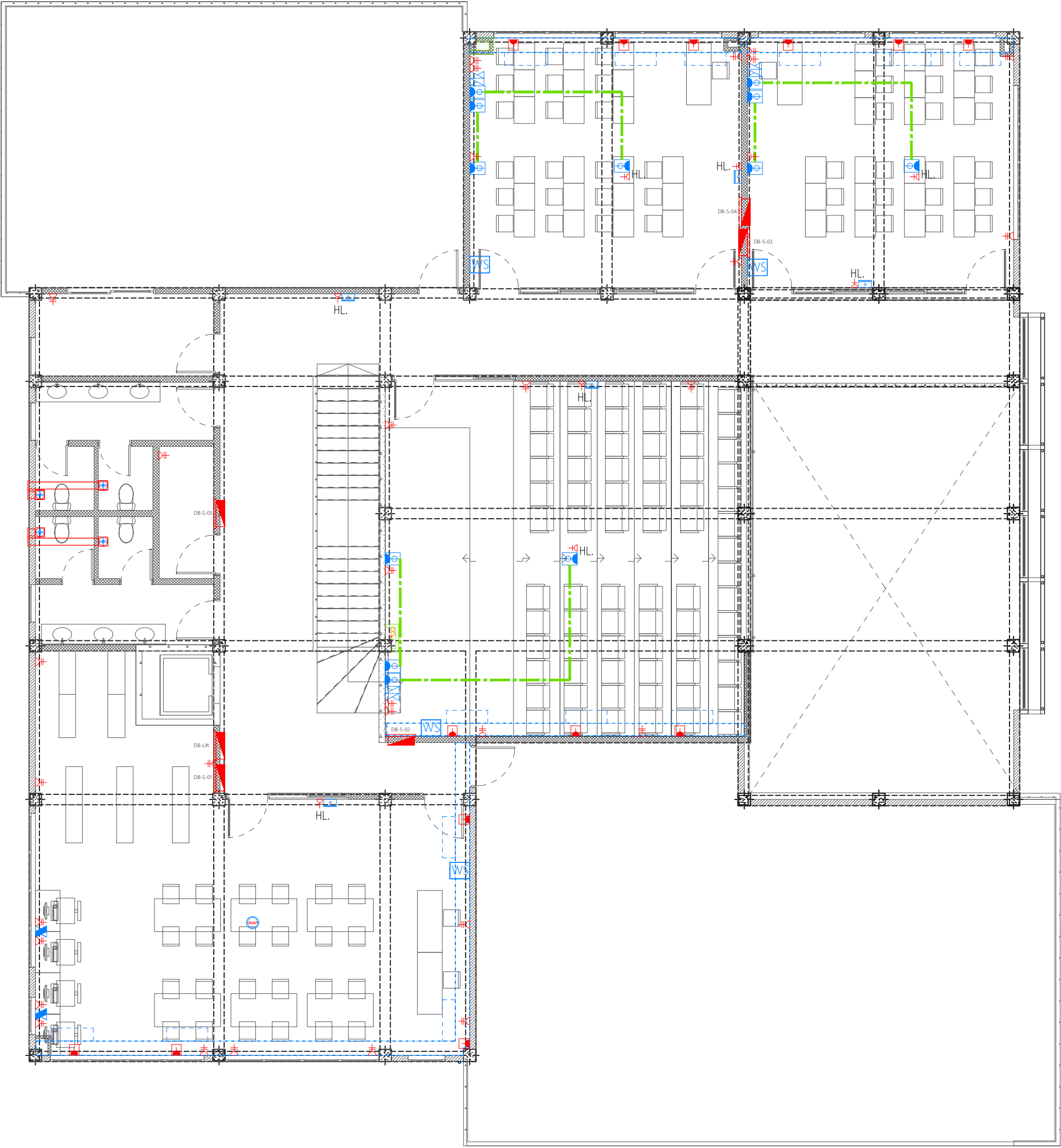
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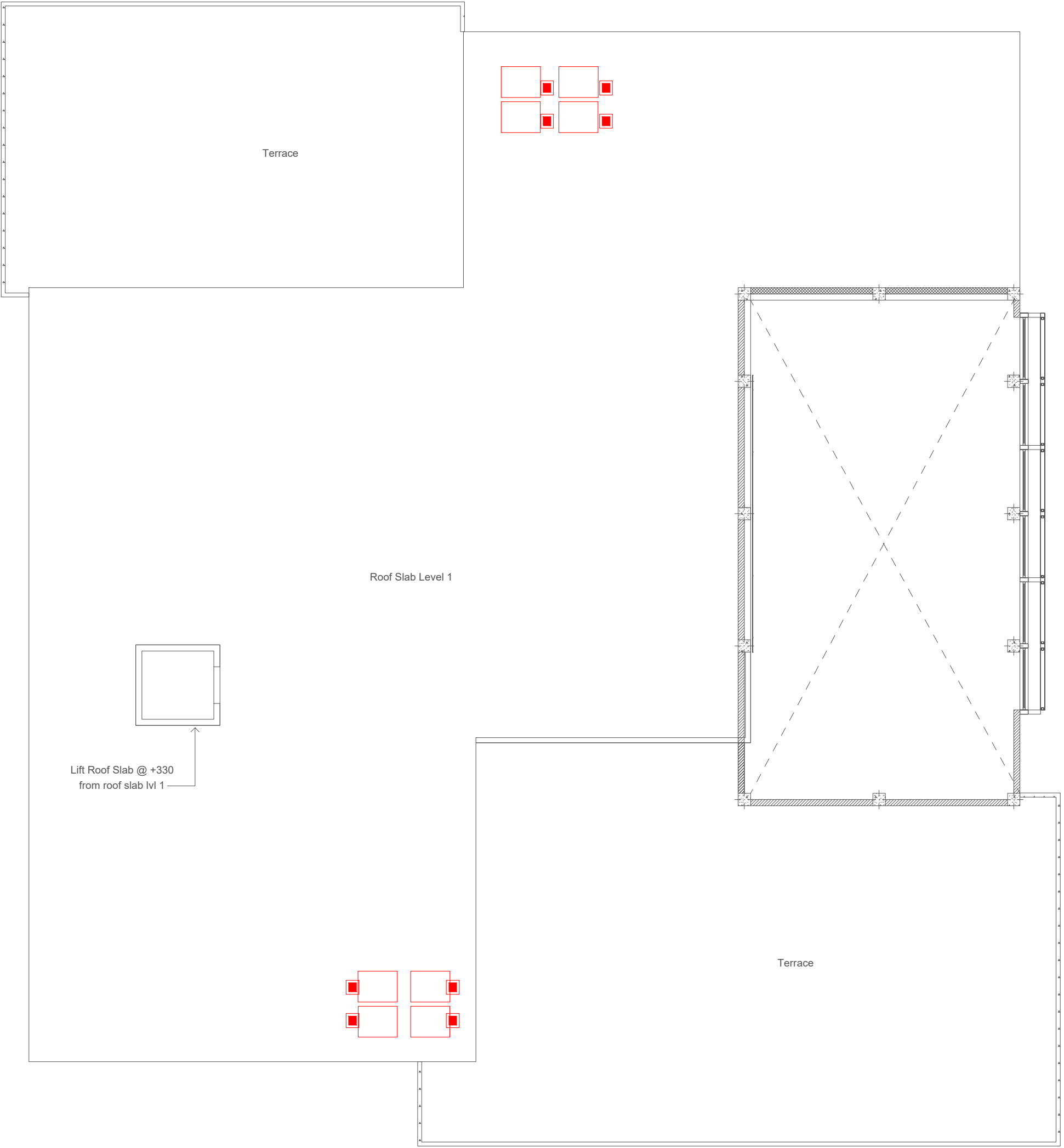
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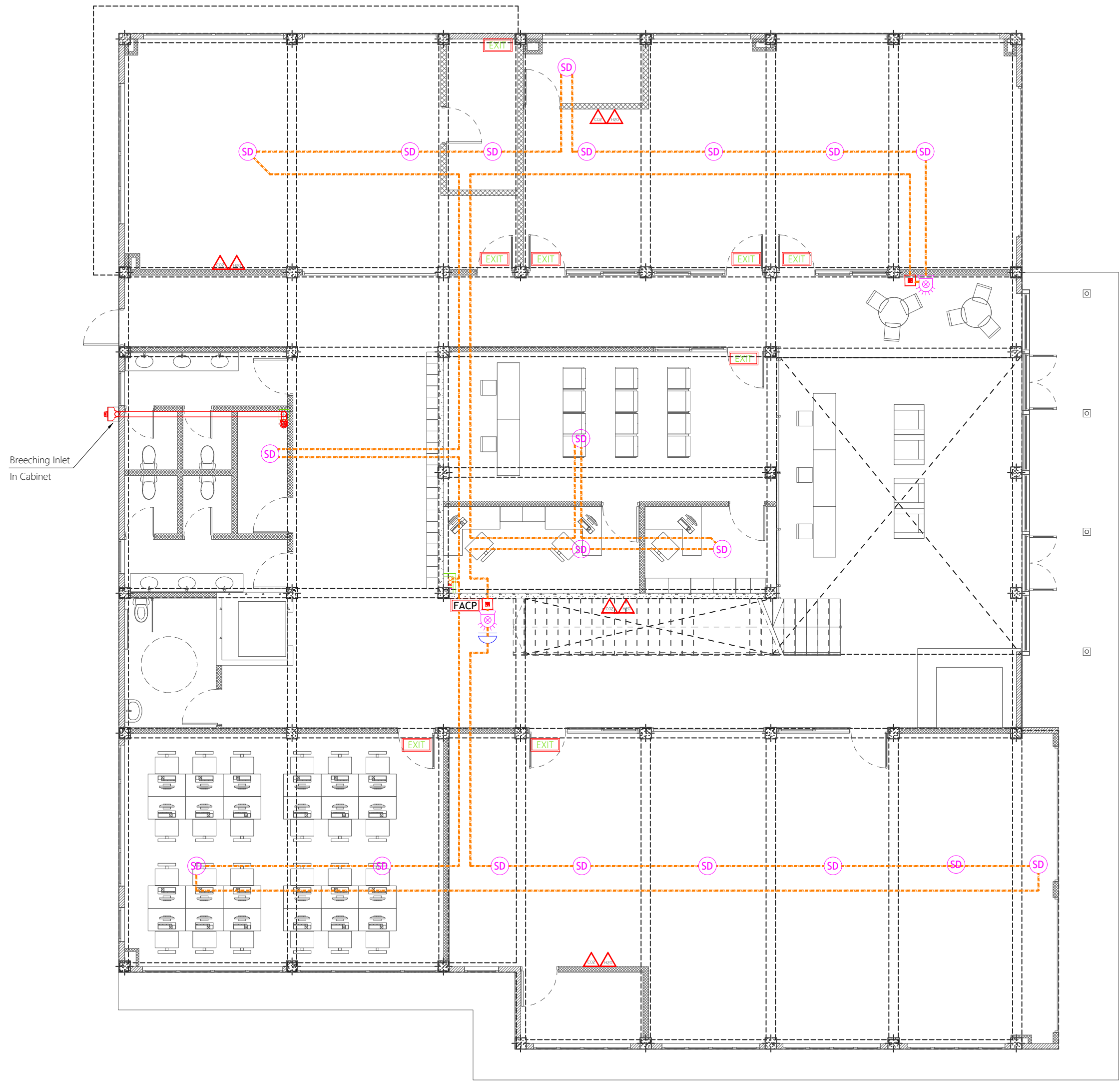
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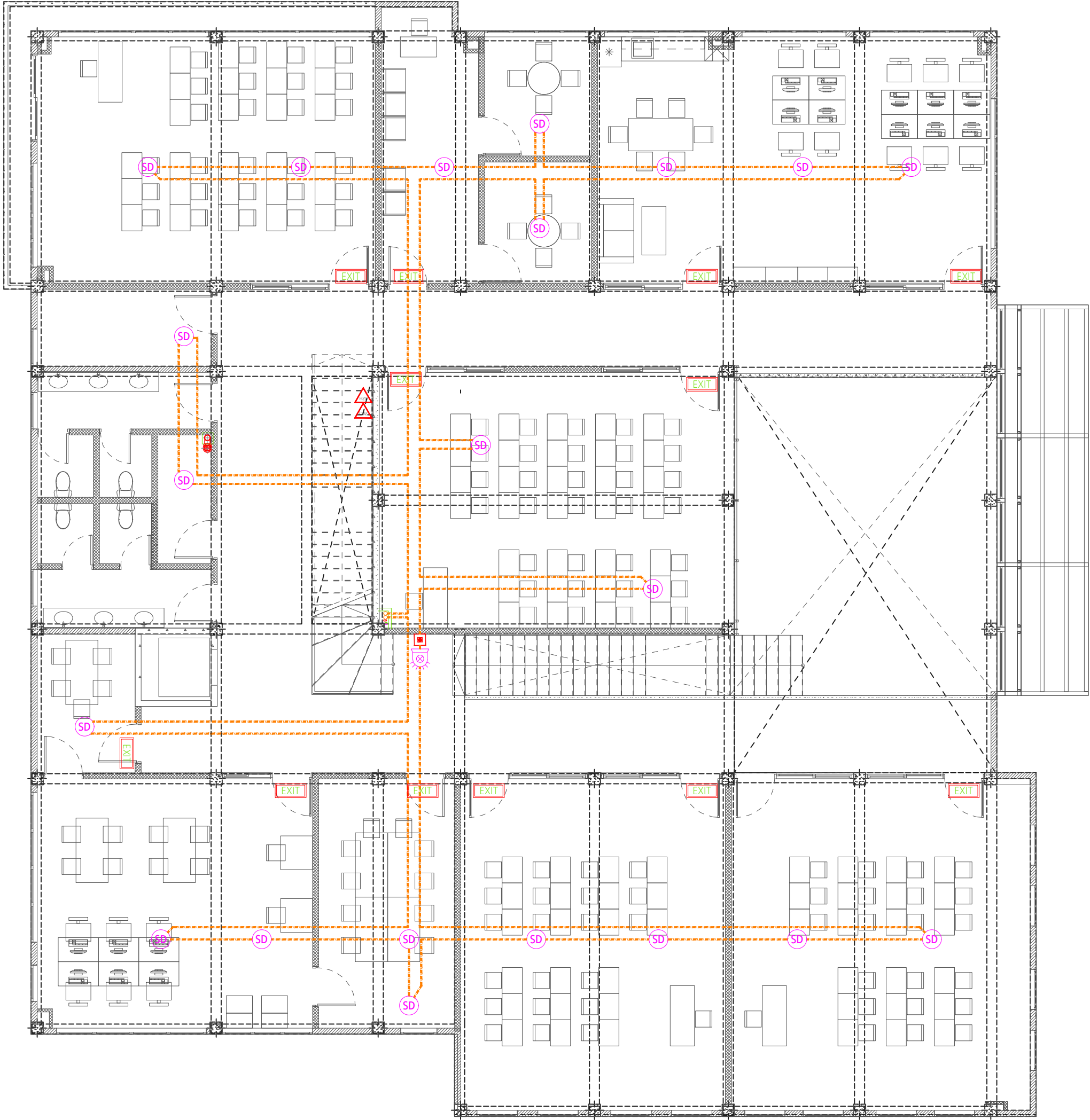
- 2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits (Running Underground)
- 2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits (Above False Ceiling or Through Slab)
- FACP** Fire Alarm Control Panel
- EXIT** Exit Sign
- CO<sub>2</sub> Extinguisher (load: 2kg) In Polycarbonate Enclosure
- H<sub>2</sub>O 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













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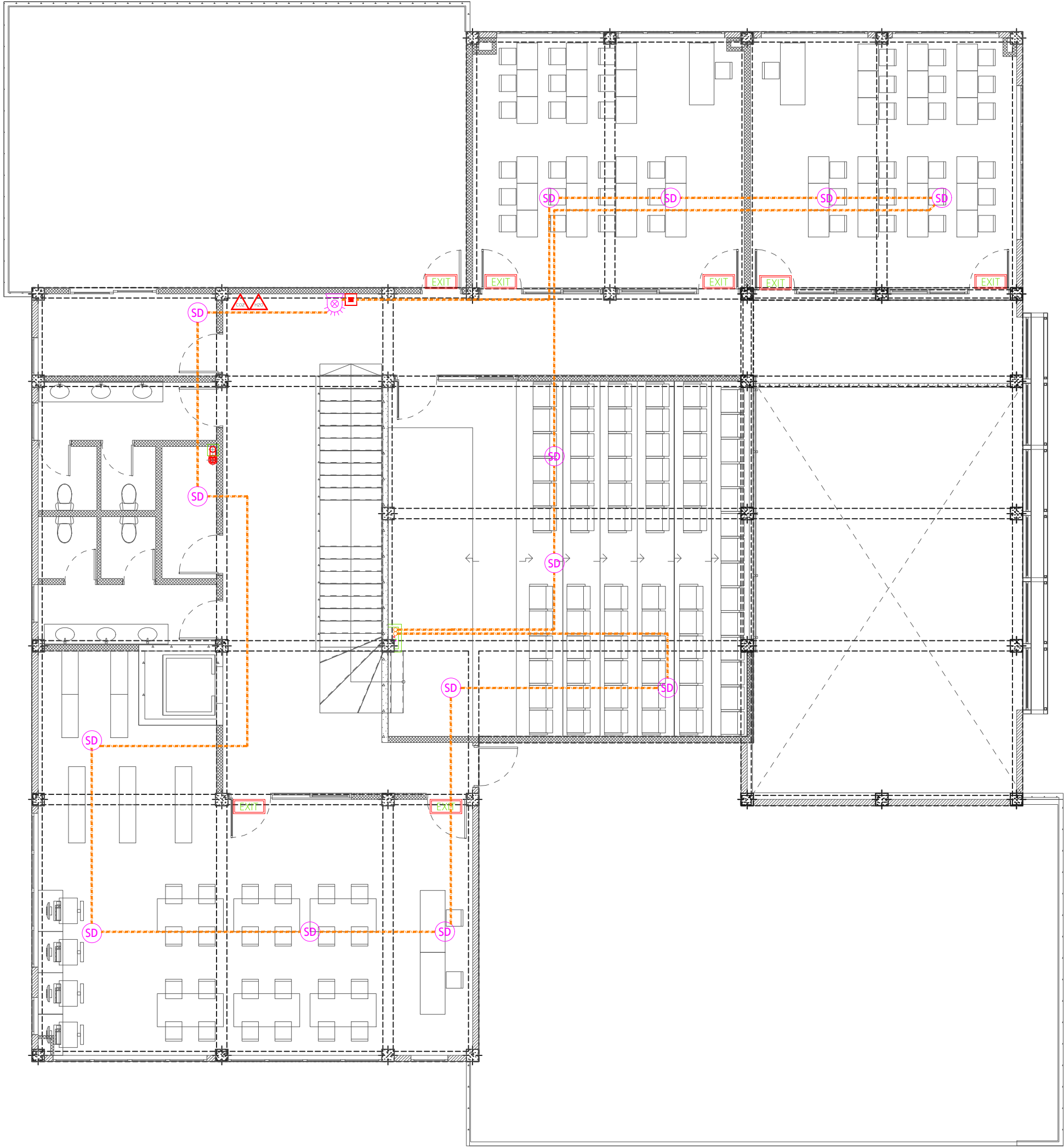
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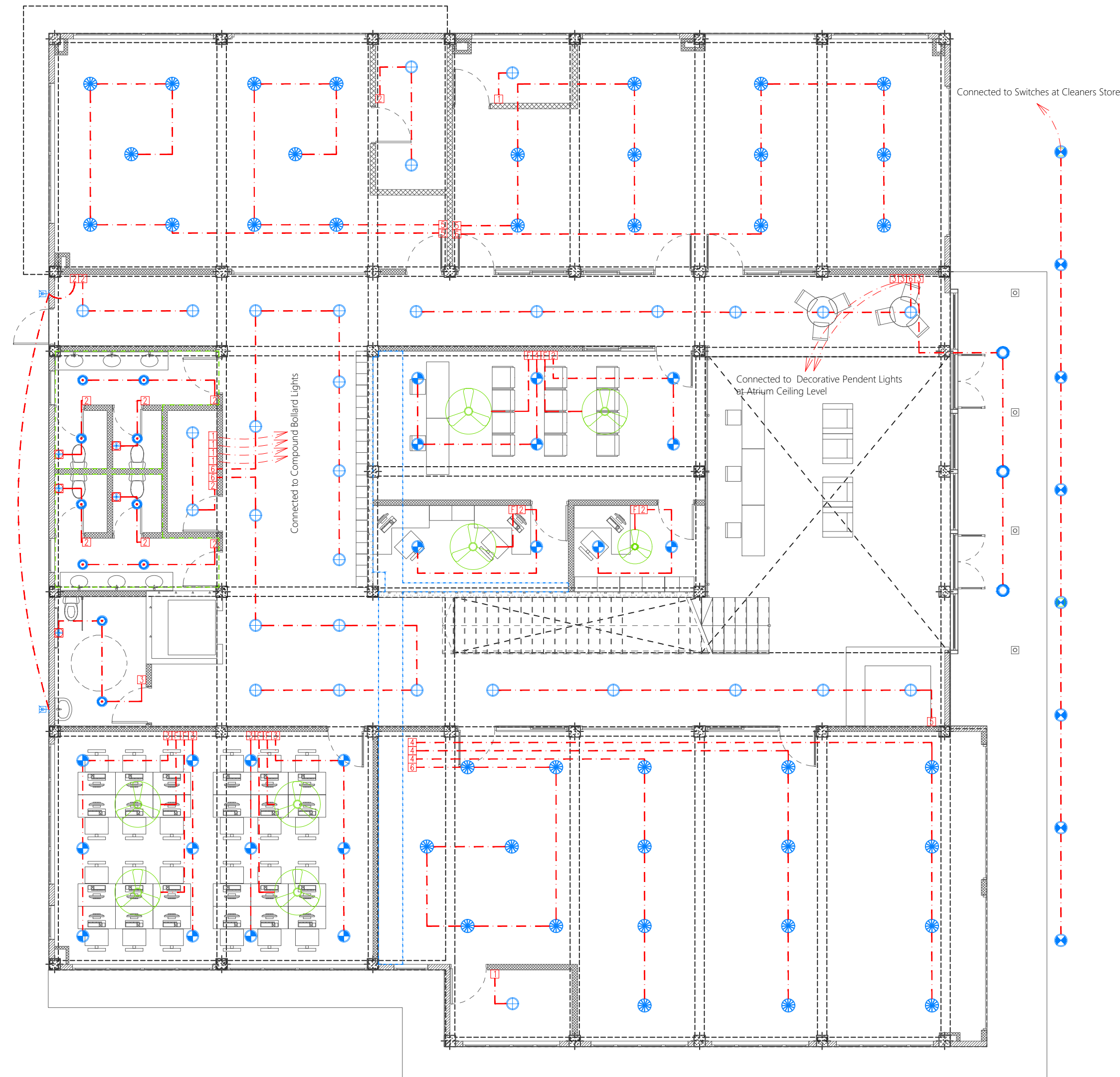
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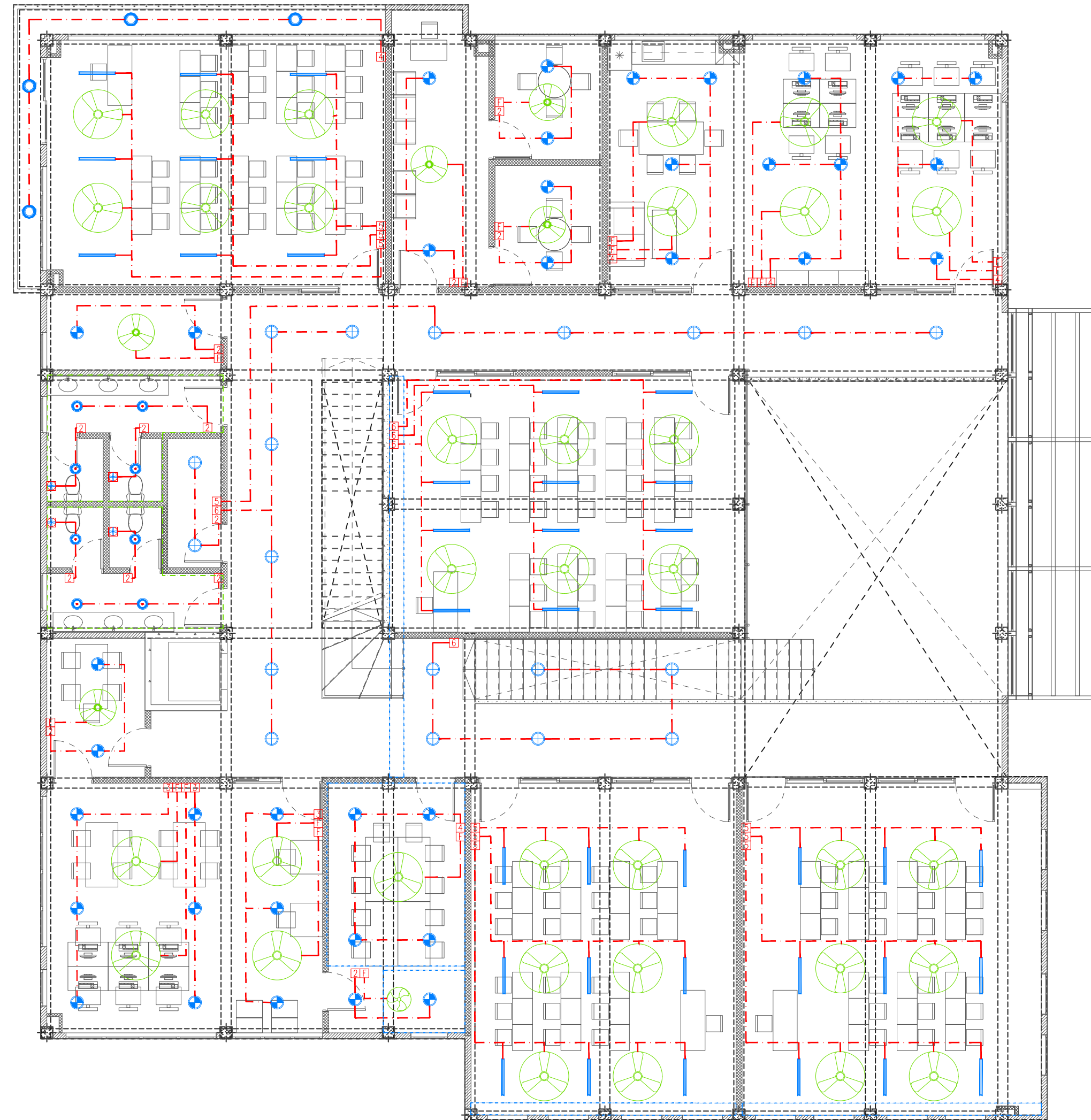
Legend

- Cement Board False Ceiling [200mm below beam bottom]
- Plaster Board False Ceiling [200mm below beam bottom]
- Cement Board False Ceiling [at beam bottom level]
- Ceiling Light (18W)
- Ceiling Light (12W)
- Recessed Ceiling Light (12W)
- Ceiling Down Light (18W) - Weather Proof
- 100W, LED, Low Bay Light
- Wall Recessed Light With Motion Sensor (low Level 8W)
- 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 Pendant 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
- 42" To 48" Ceiling Fan





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1

2

3

4

5

6

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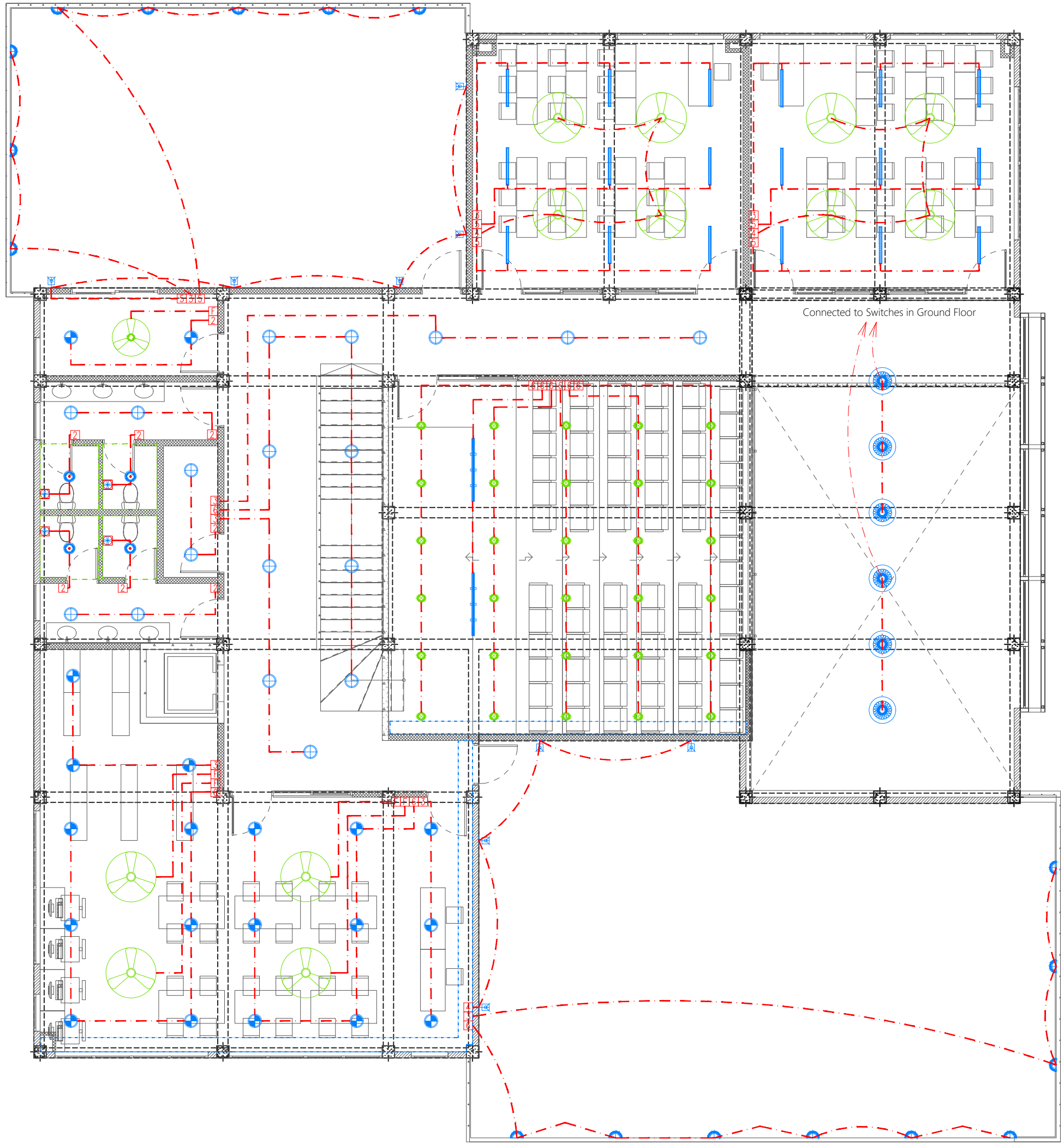
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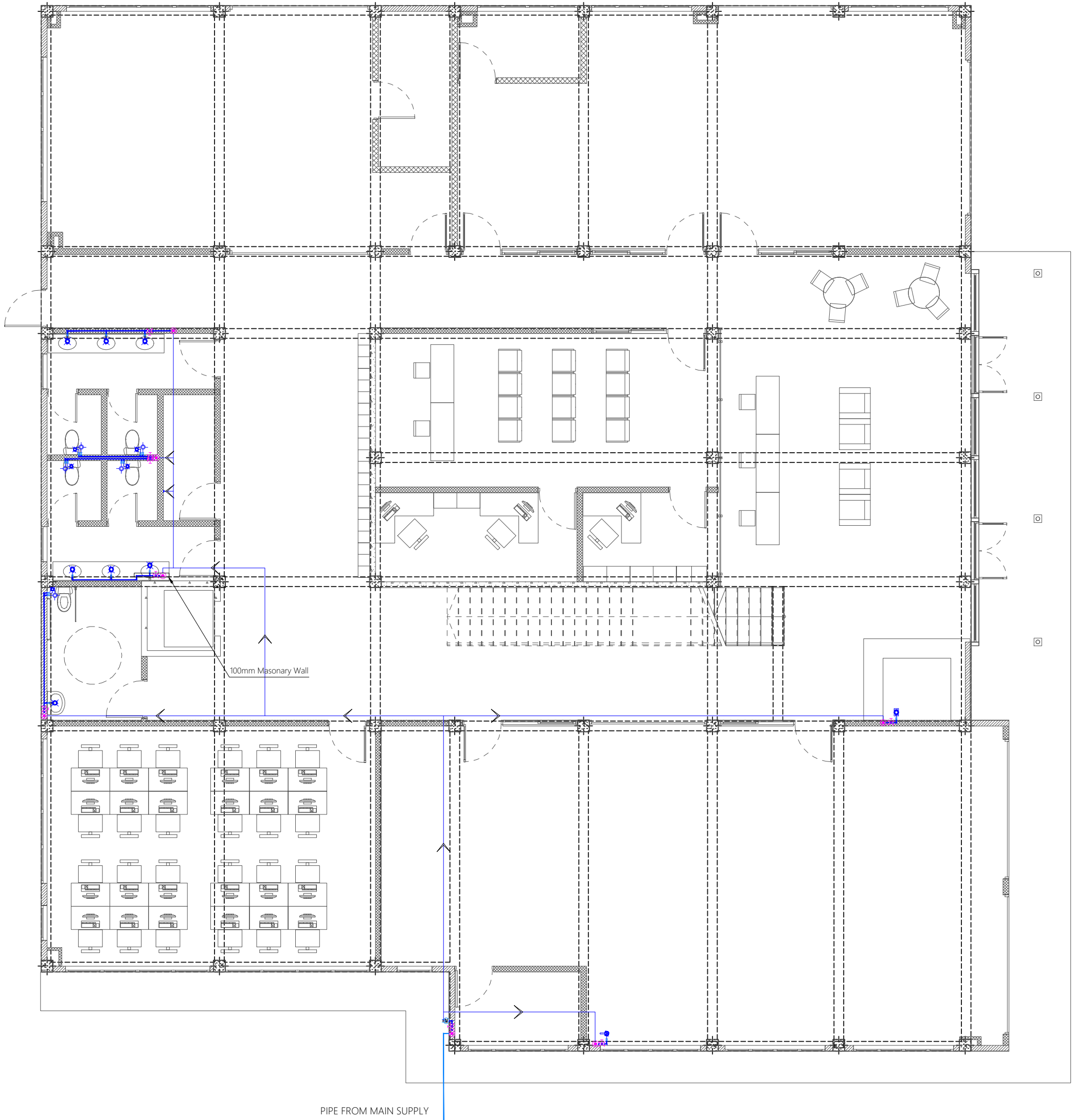


Legend

- 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 Head Shower
- 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



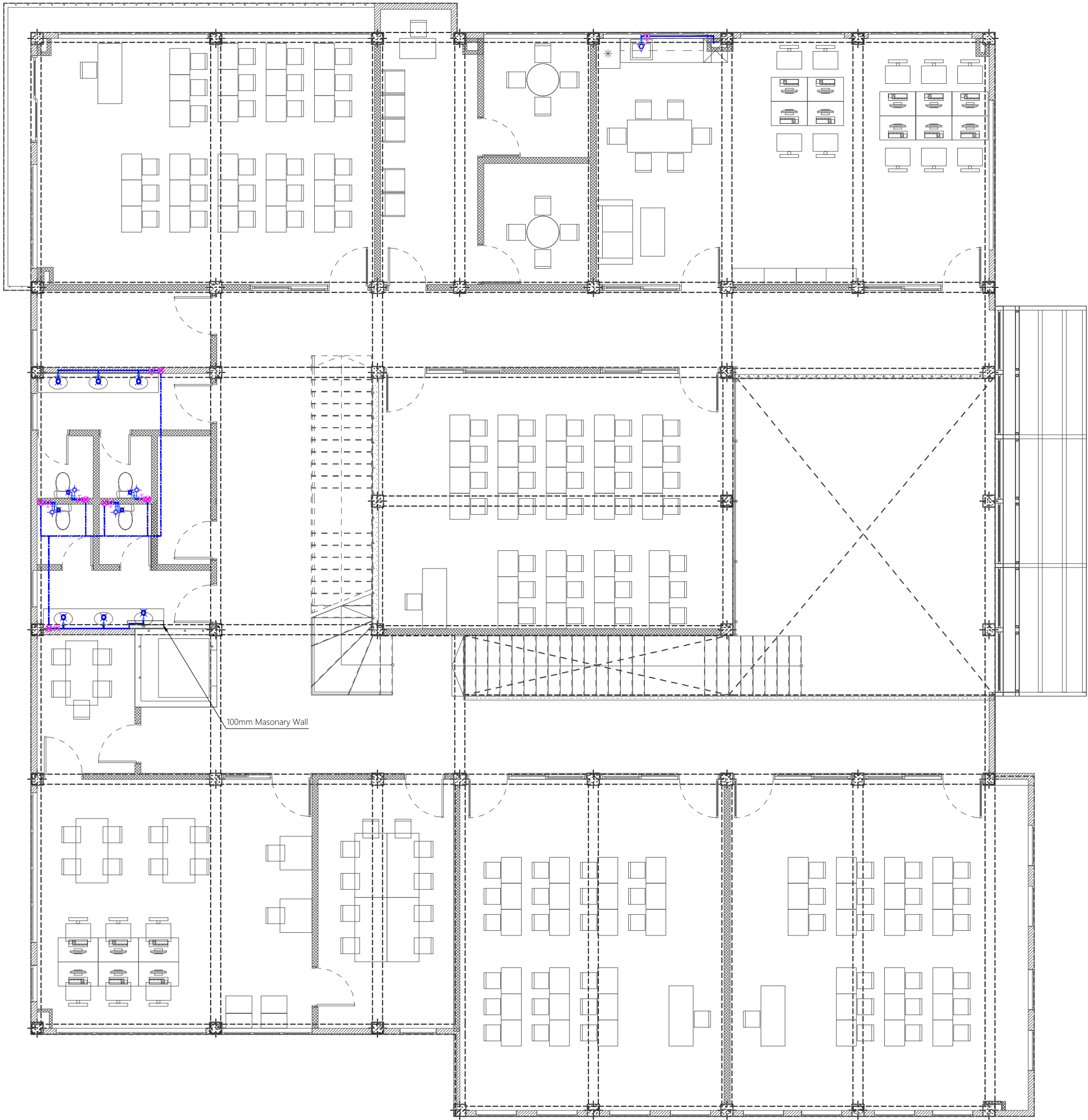


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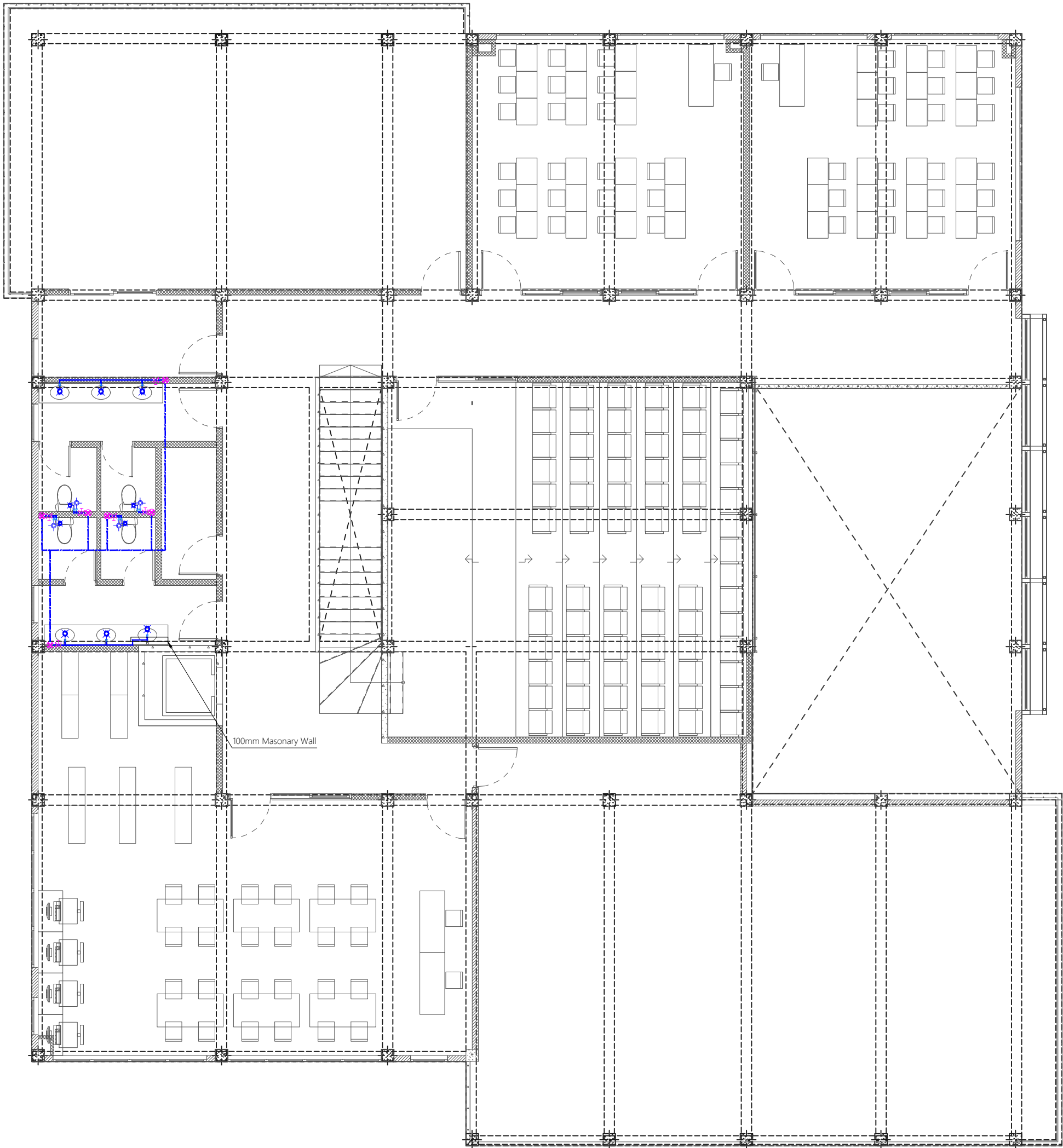


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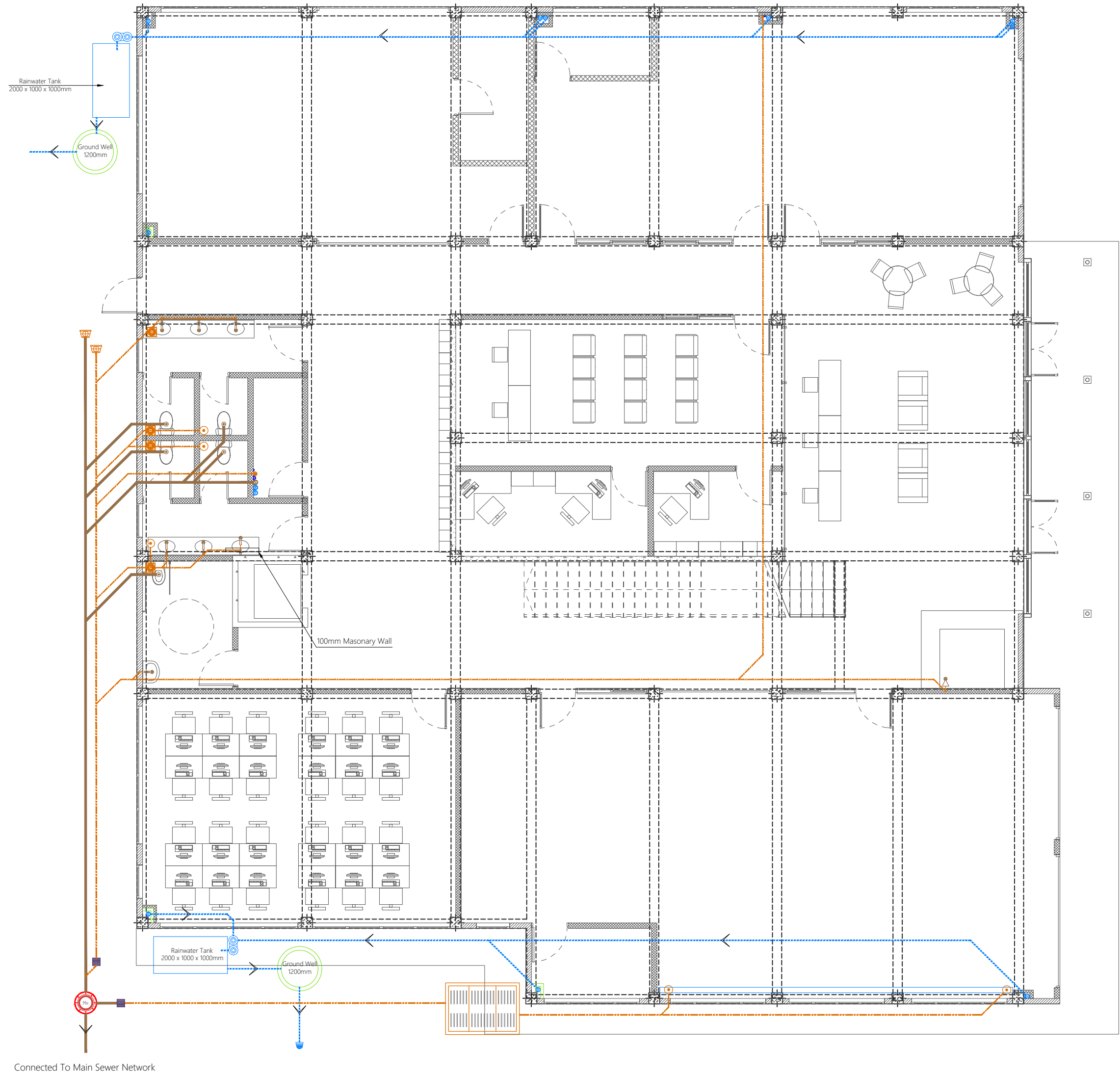




Legend

















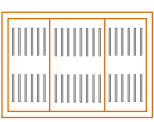
- Floor Drain
- Floor Gully
- Clean Out Point
- Bottle Trap
- Bottle Trap for Sink
- Gully Trap
- 110Ø Rainwater Outlet
- In-ground First Flush System
- 110Ø Soil Pipe (uPVC Pipe)
- 110Ø Soil Vent Pipe (uPVC Pipe)
- 82Ø Waste Pipe (uPVC Pipe)
- 82Ø Waste Vent Pipe (uPVC Pipe)
- 40Ø Waste Pipe (uPVC Pipe)
- 63Ø Manhole Vent Pipe (uPVC Pipe)
- 110Ø Rain Water Pipes (uPVC Pipe)
- Manhole
- 2000 x 1400 Oil Trap

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





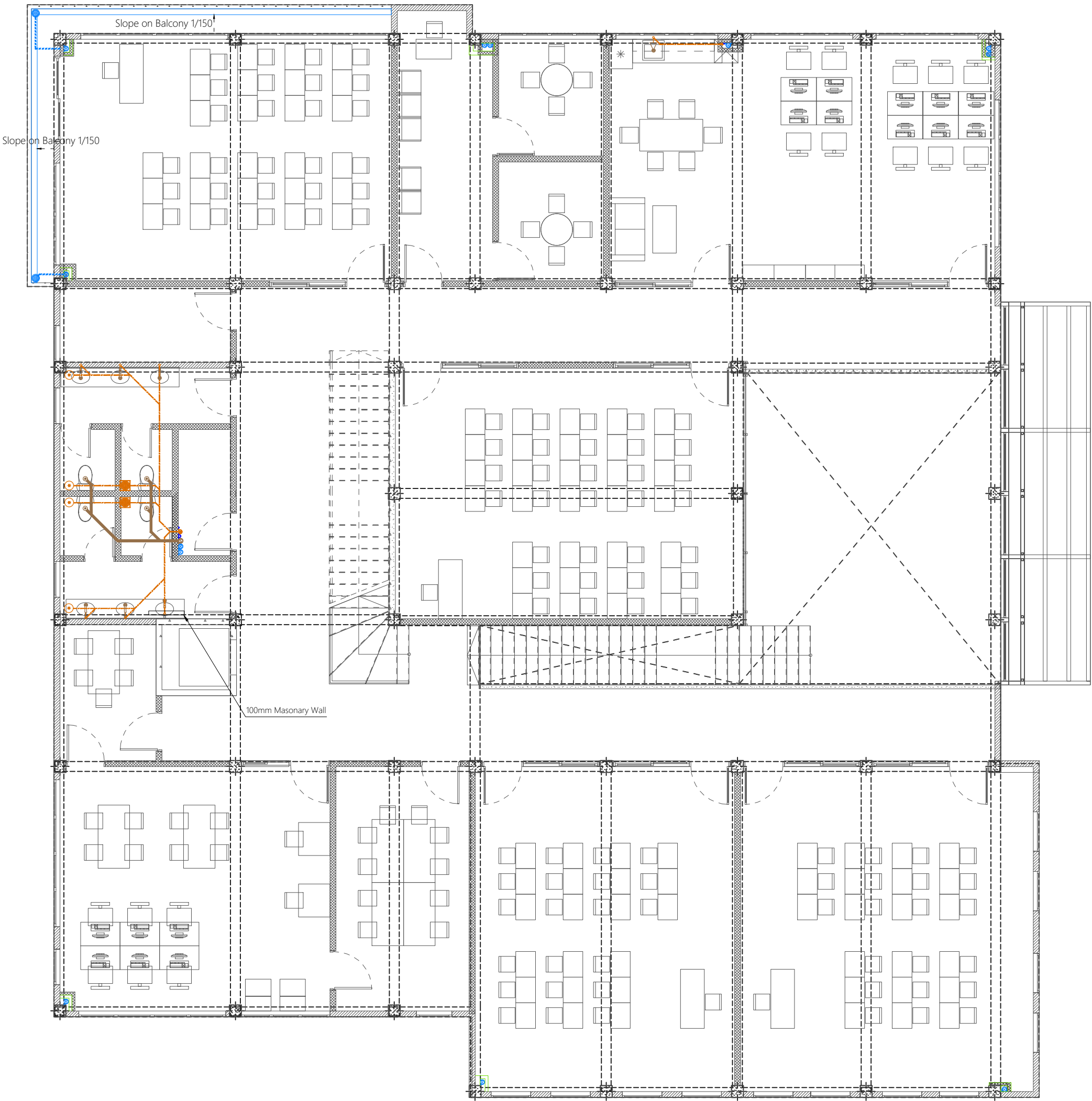
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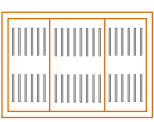
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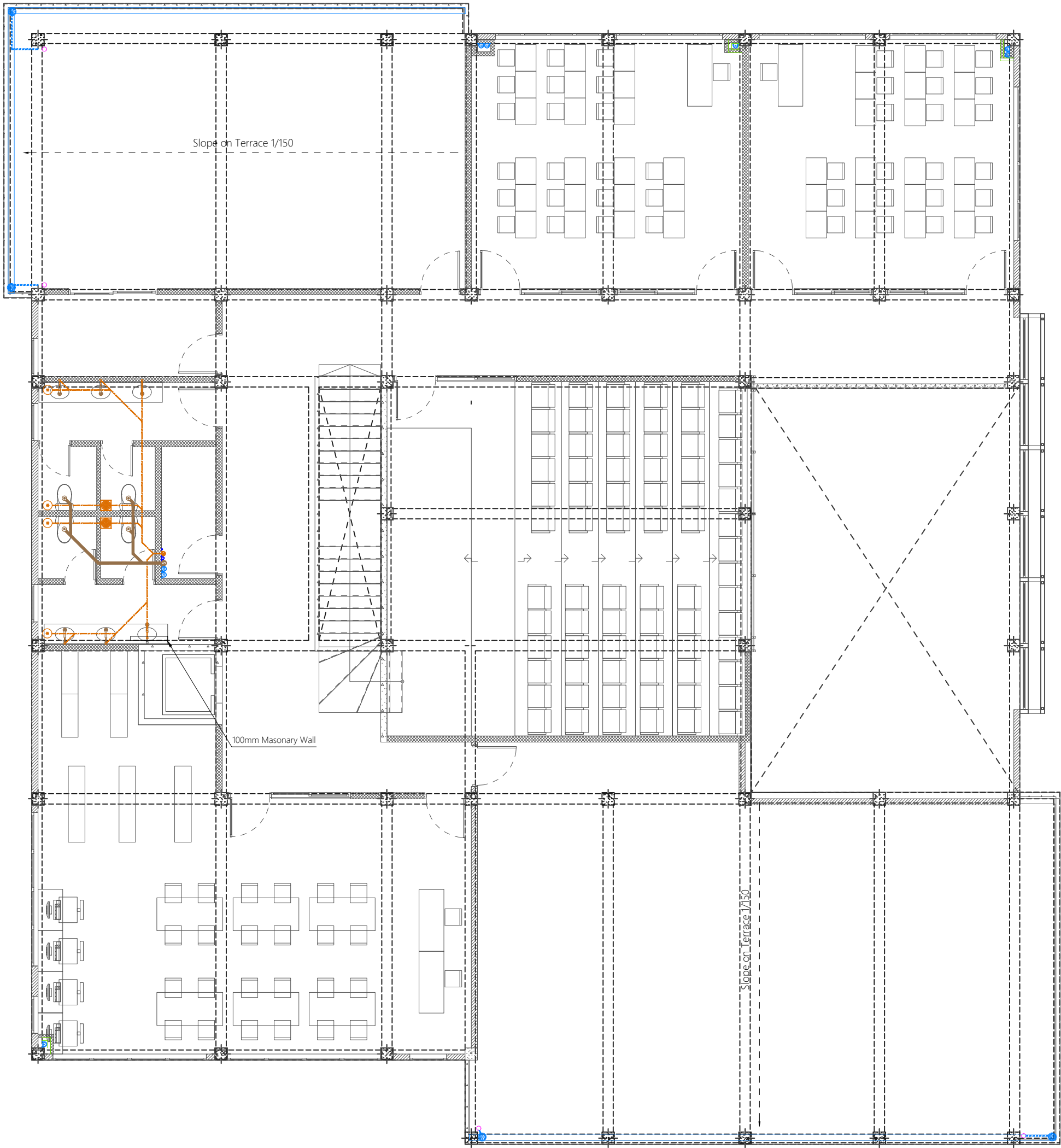


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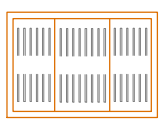
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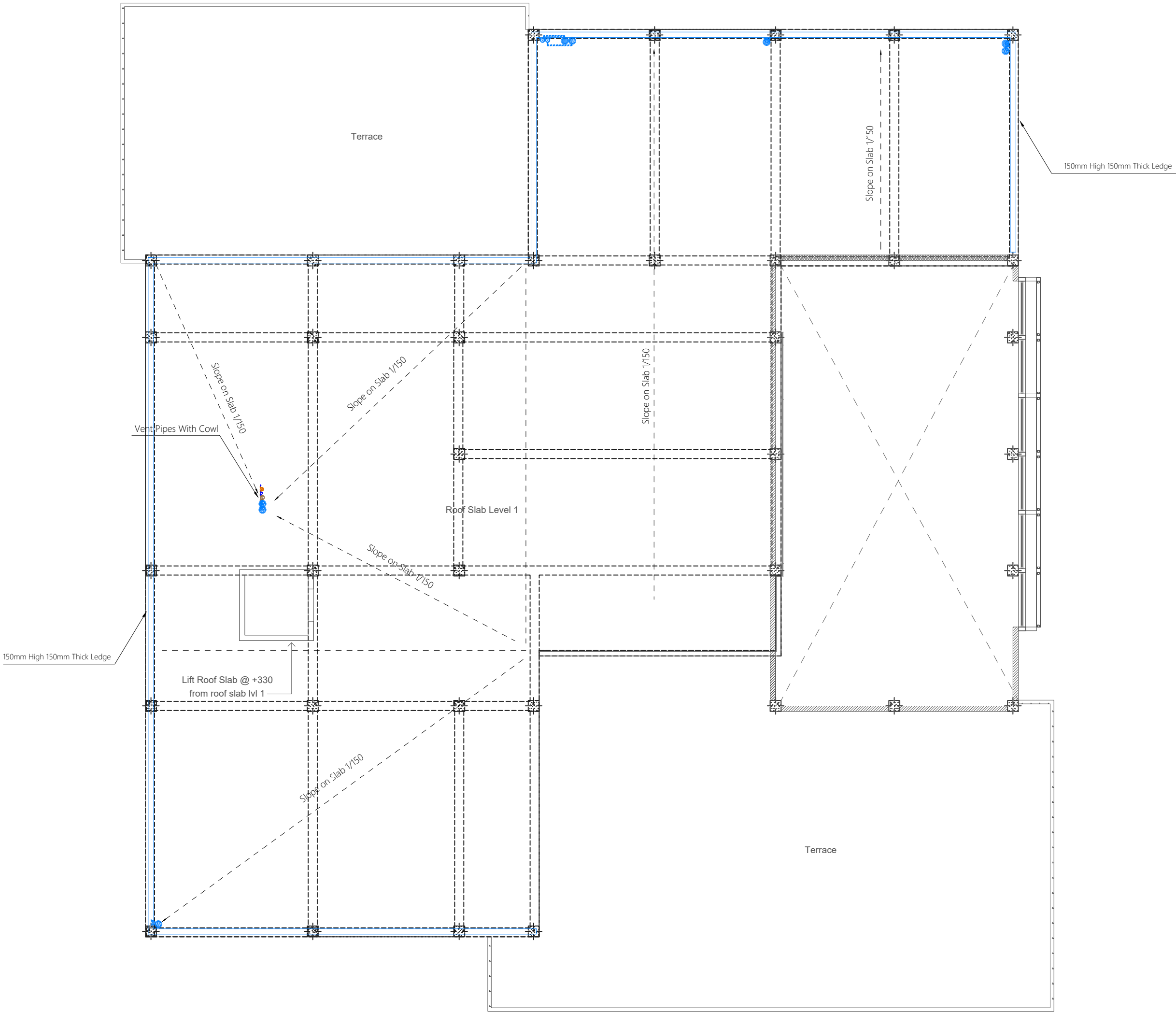


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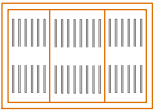
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