

BUILDING SERVICES DRAWINGS OF

PROPOSED 03 STOREY

**CLASSROOMS, LIBRARY & OFFICE**

**HA. THURAAKUNU**

For Ministry Of Education

By Epoch Associates Pvt. Ltd



**EPOCH**

**T:** +960 333 3528 **E:** info@epoch.associates **W:** www.epoch.associates  
**A:** 3rd Floor, G. Rosary West, Husnuheena Magu, Male' Republic of Maldives

Legend

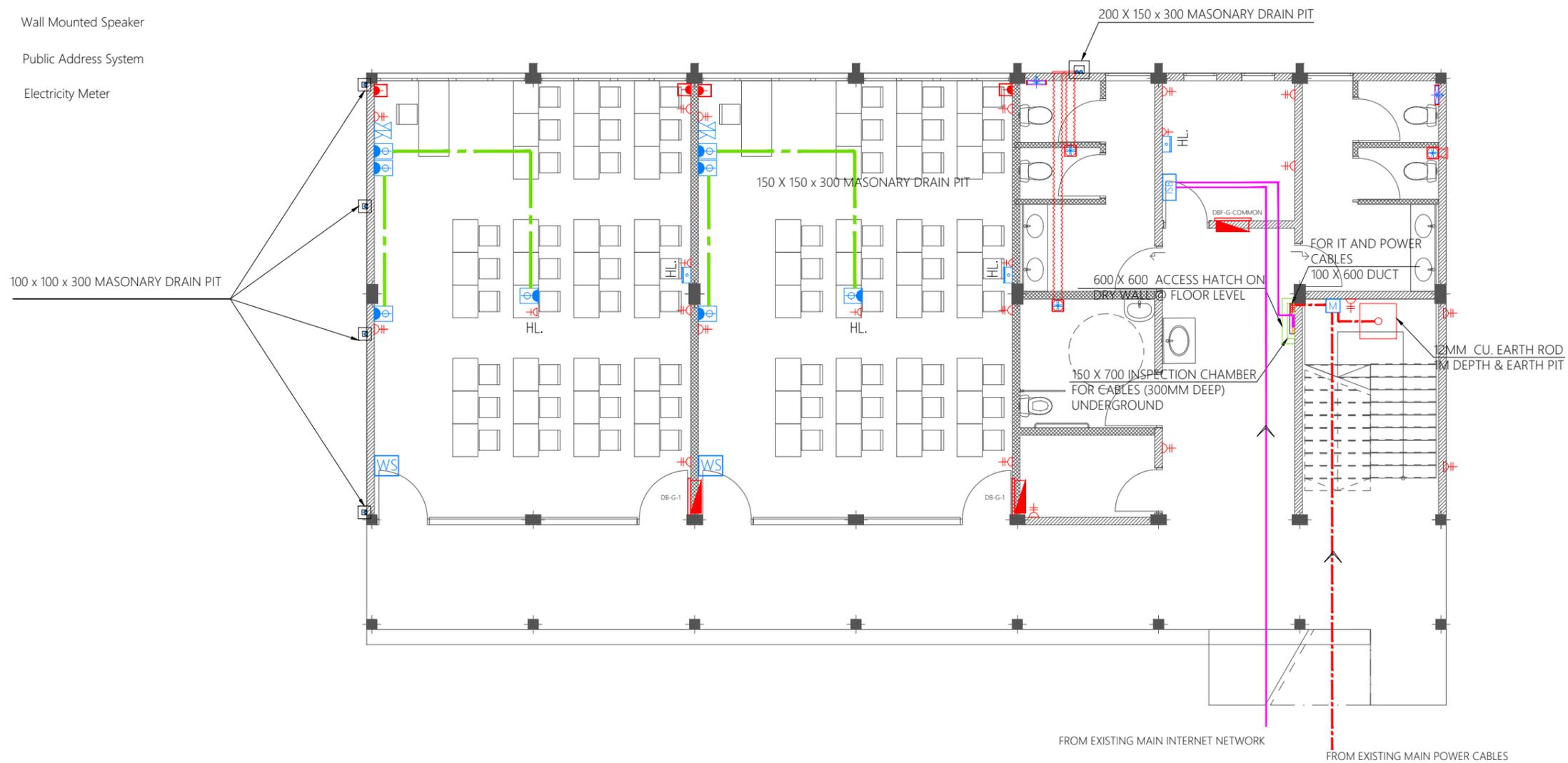
-  13A Twin Socket
-  13A Power Socket
-  Distribution Board
-  15A Switched Socket @ H.L.
- HL. High Level
-  Emergency Light
-  Computer Network Outlet In Floor Mount Pop-up Box
-  Telephone Extension In Floor Mount Pop-up Box
-  13A Twin Socket In Floor Mount Pop-up Box
-  Computer Network Twin Outlet
-  HDMI Socket
-  Telephone Outlet
-  Telephone Extension
-  Wall Mounted Speaker
-  Public Address System
-  Electricity Meter

-  82Ø PVC Duct For Tel./Internet Cable Lead In Below Ground Slab
-  Main Incoming Cable For Power In 110Ø PVC Duct Below Ground Slab

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 of school

-  Wall Mount Air Conditioner
-  Outdoor Condensing Unit
-  Refrigerant Pipes
-  25Ø Condensate Drain Pipe
-  40Ø Condensate Drain Riser Pipe
-  Ceiling Mounted Exhaust Fan 90m3/hr
-  Wall Mounted Exhaust Fan

Notes: -  
 Where Condensate Drain Pipes Are Connected To Wash Basin Or Kitchen Sink, 25 Ø Condensate Drain Pipe Is Extended In 32 Ø Flex Conduit Into 40 Ø Waste Pipe Of Respective Basin Or Sink



GROUND FLOOR POWER AND ACV LAYOUT

1:100

PROPOSED 03 STOREY BUILDING  
**OFFICE, LIBRARY & CLASSROOMS,**  
**HA. THURAAKUNU**  
 Client:  
**Ministry Of Education**

April 2021  
 Services By: **Mohamed Rassam**  
 Checked By:  
 Drawn By: **Hussain Rasheed**



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Legend

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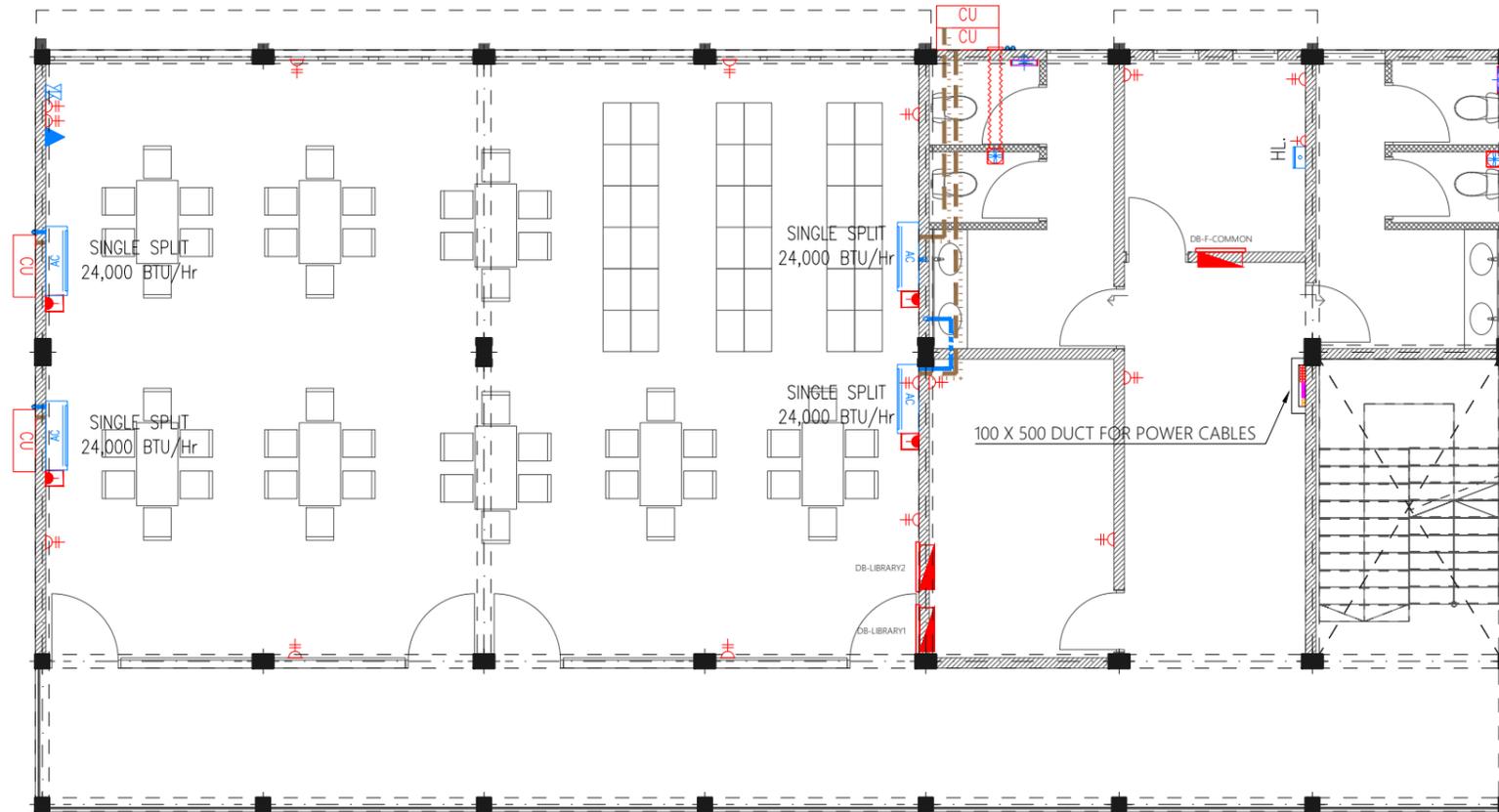
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**FIRST FLOOR POWER AND ACV LAYOUT**

1:100

Legend

-  13A Twin Socket
-  13A Power Socket
-  Distribution Board
-  15A Switched Socket @ H.L.
- HL. High Level
-  Emergency Light
-  Computer Network Outlet In Floor Mount Pop-up Box
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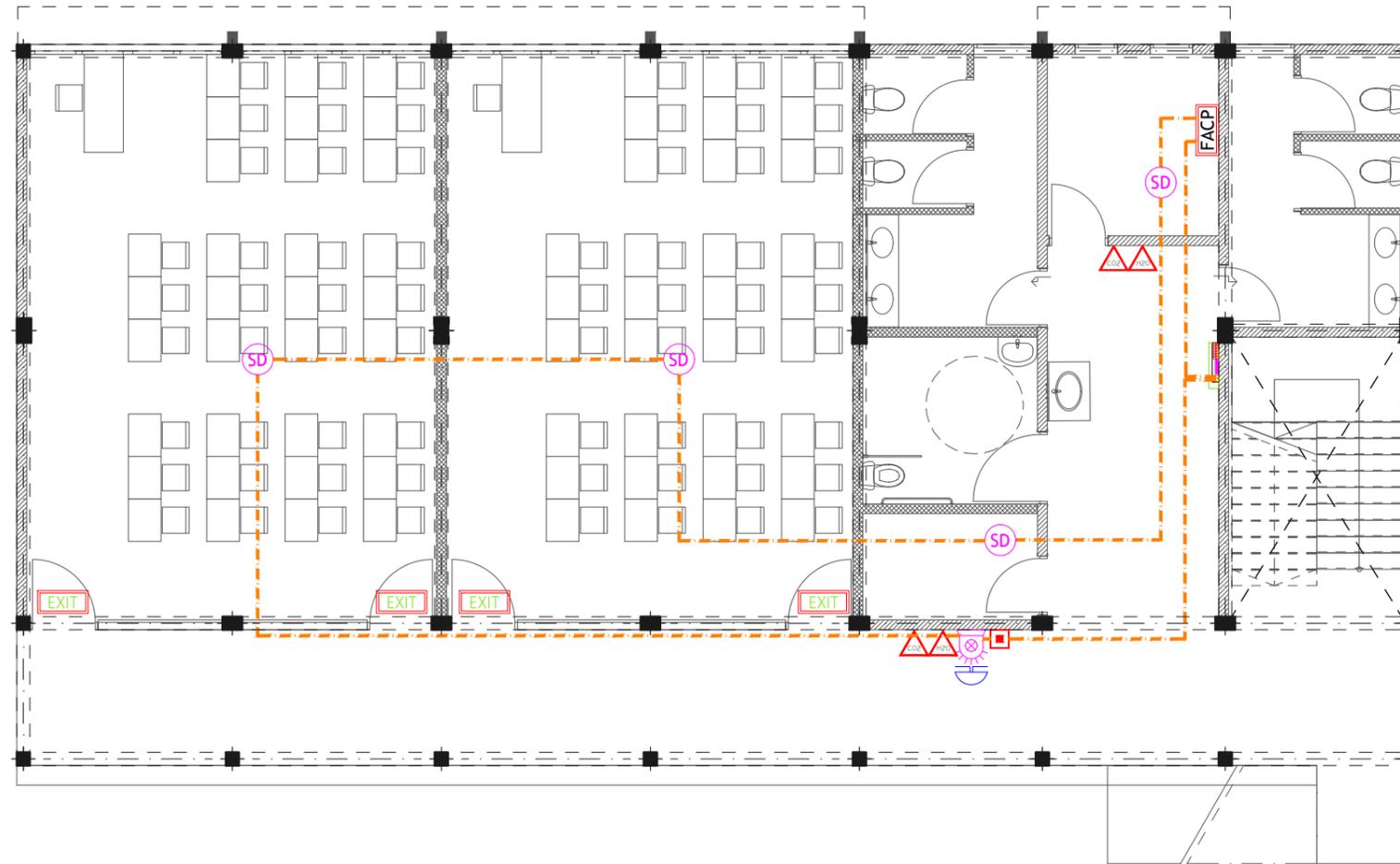
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**SECOND FLOOR POWER AND ACV LAYOUT**

1:100

Legend

-  CO<sub>2</sub> Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H<sub>2</sub>O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Heat Detector
-  Beacon
-  Sounder Bell
-  2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
-  Exit Sign
-  Fire Alarm Control Panel



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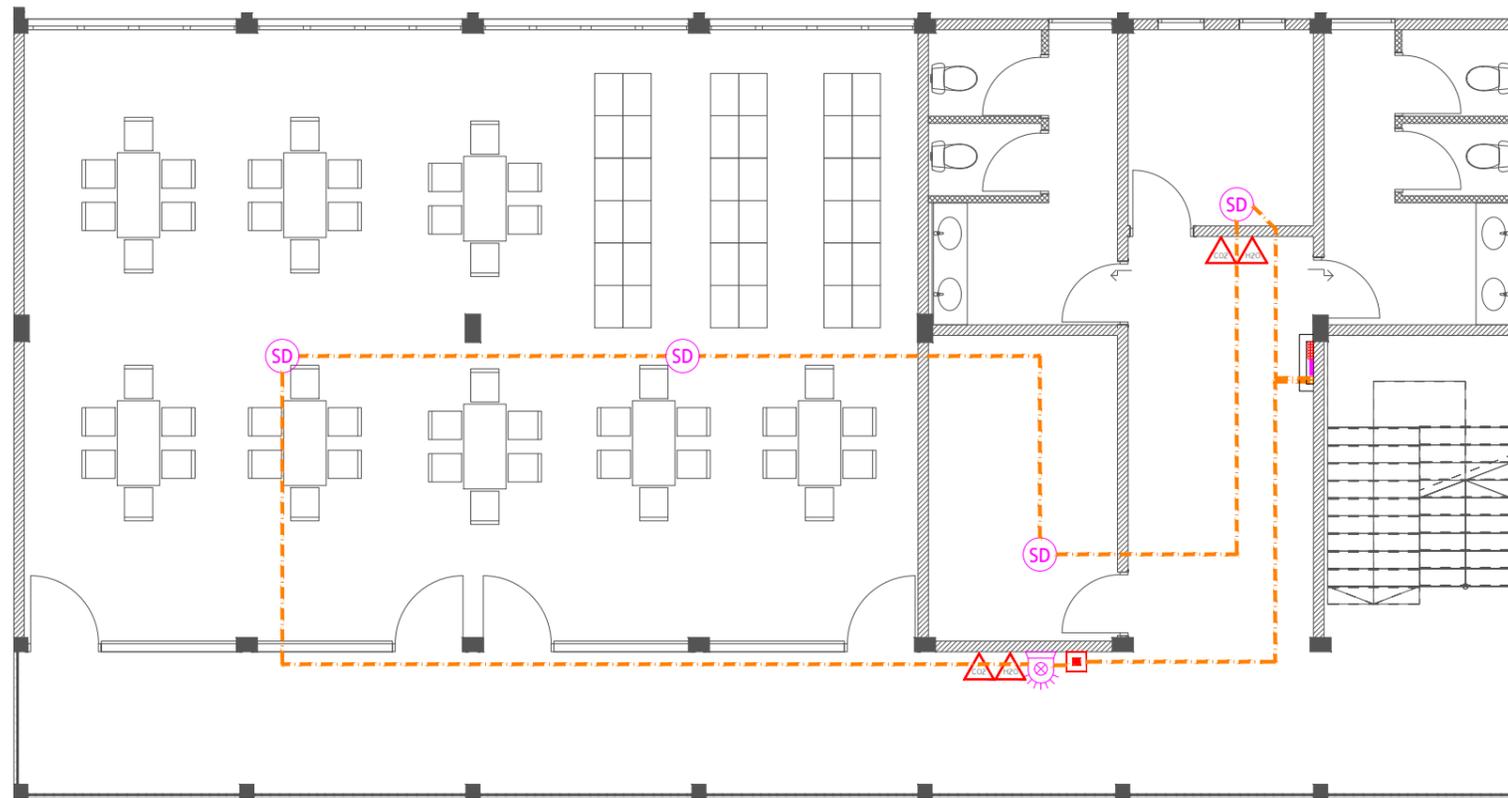


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Legend

-  CO<sub>2</sub> Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H<sub>2</sub>O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Heat Detector
-  Beacon
-  Sounder Bell
-  2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
-  Exit Sign
-  Fire Alarm Control Panel



**FIRST FLOOR FDP LAYOUT**  
1:100

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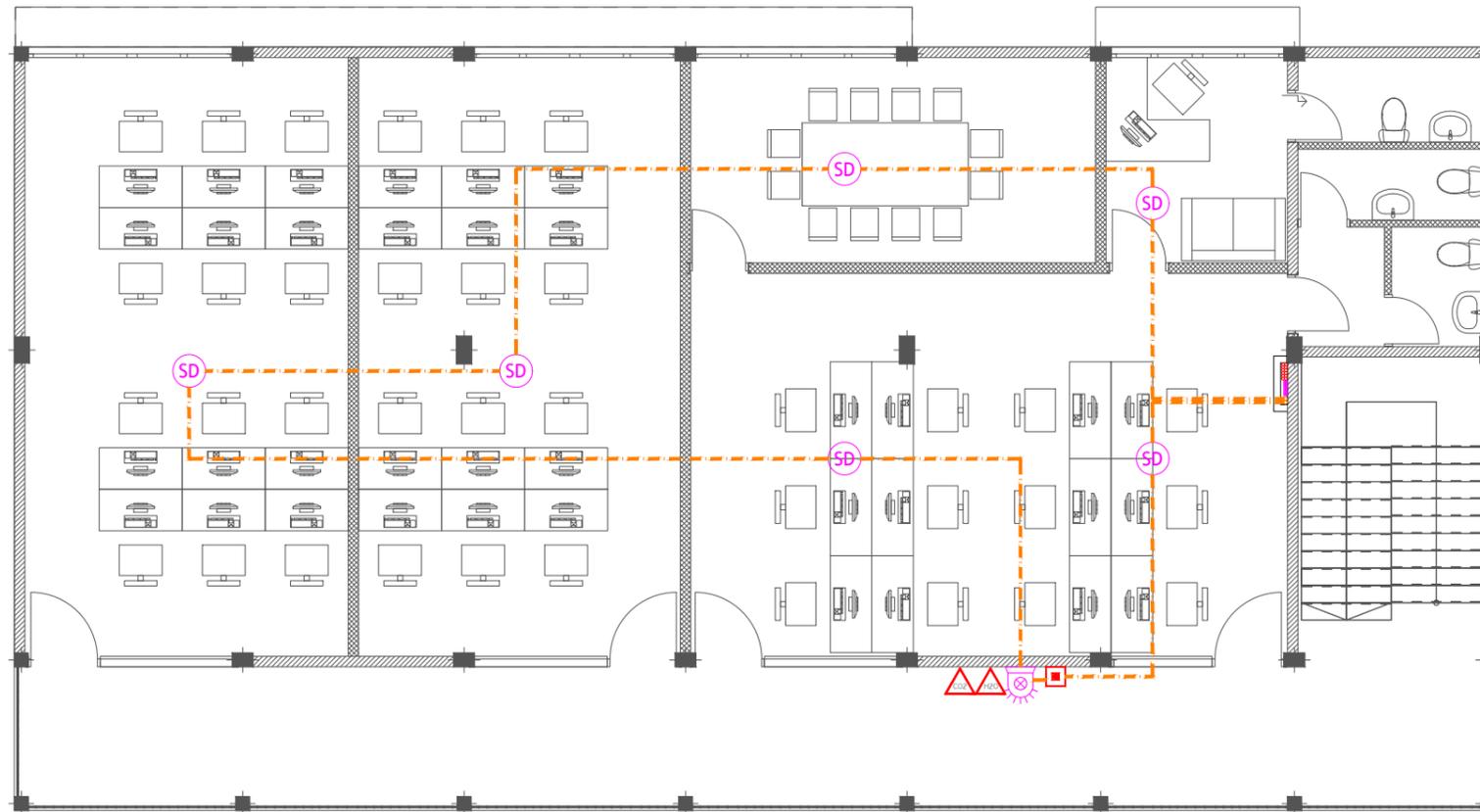


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Legend

-  CO<sub>2</sub> Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H<sub>2</sub>O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Heat Detector
-  Beacon
-  Sounder Bell
-  2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
-  Exit Sign
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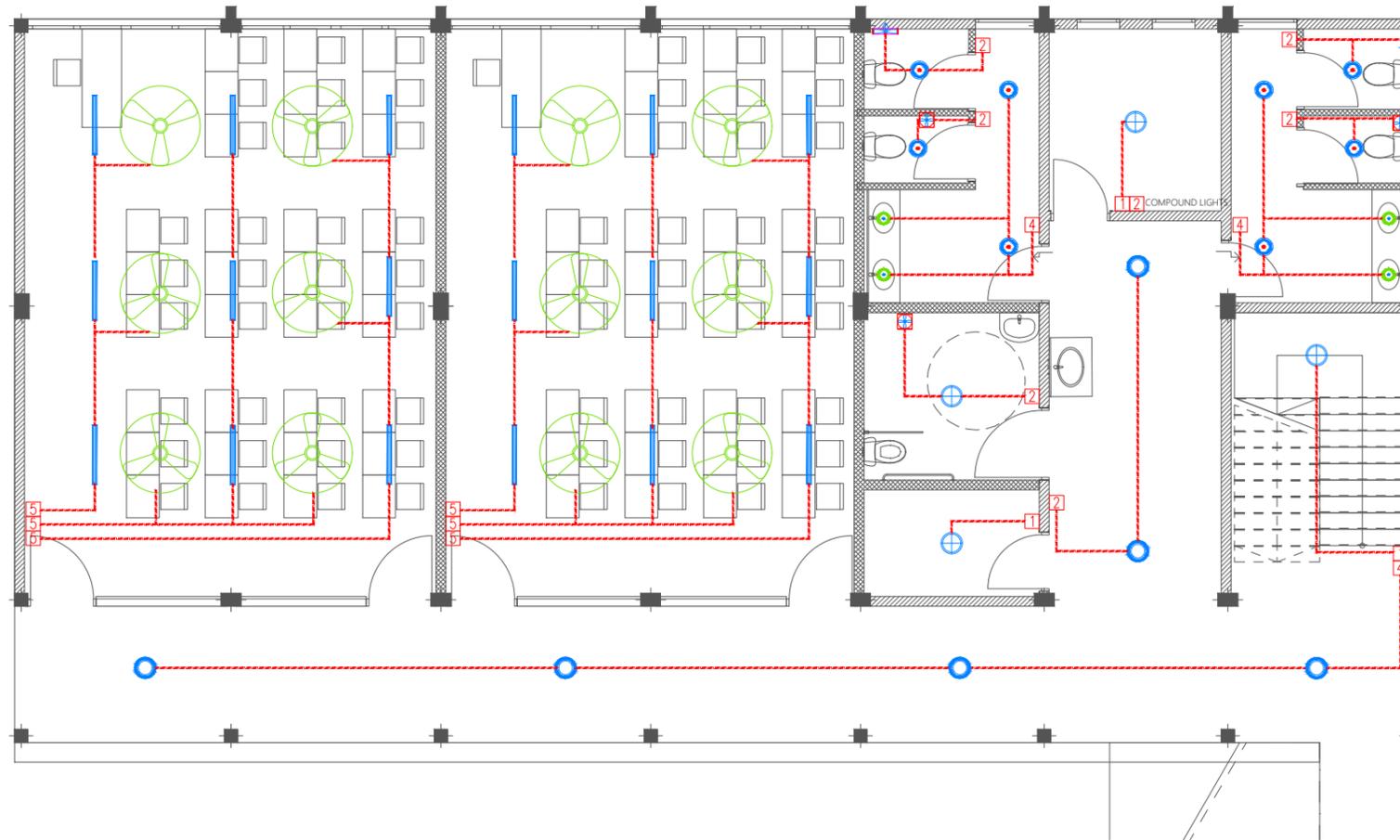


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Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  3 Ft Led Tube Light
-  Ceiling Recessed Spot Light (3W)
-  Light Switch (1 Gang - 5 Gang)
-  Ceiling Fan Switch With Controller
-  42" To 48" Ceiling Fan



GROUND FLOOR LIGHTING LAYOUT

1:100

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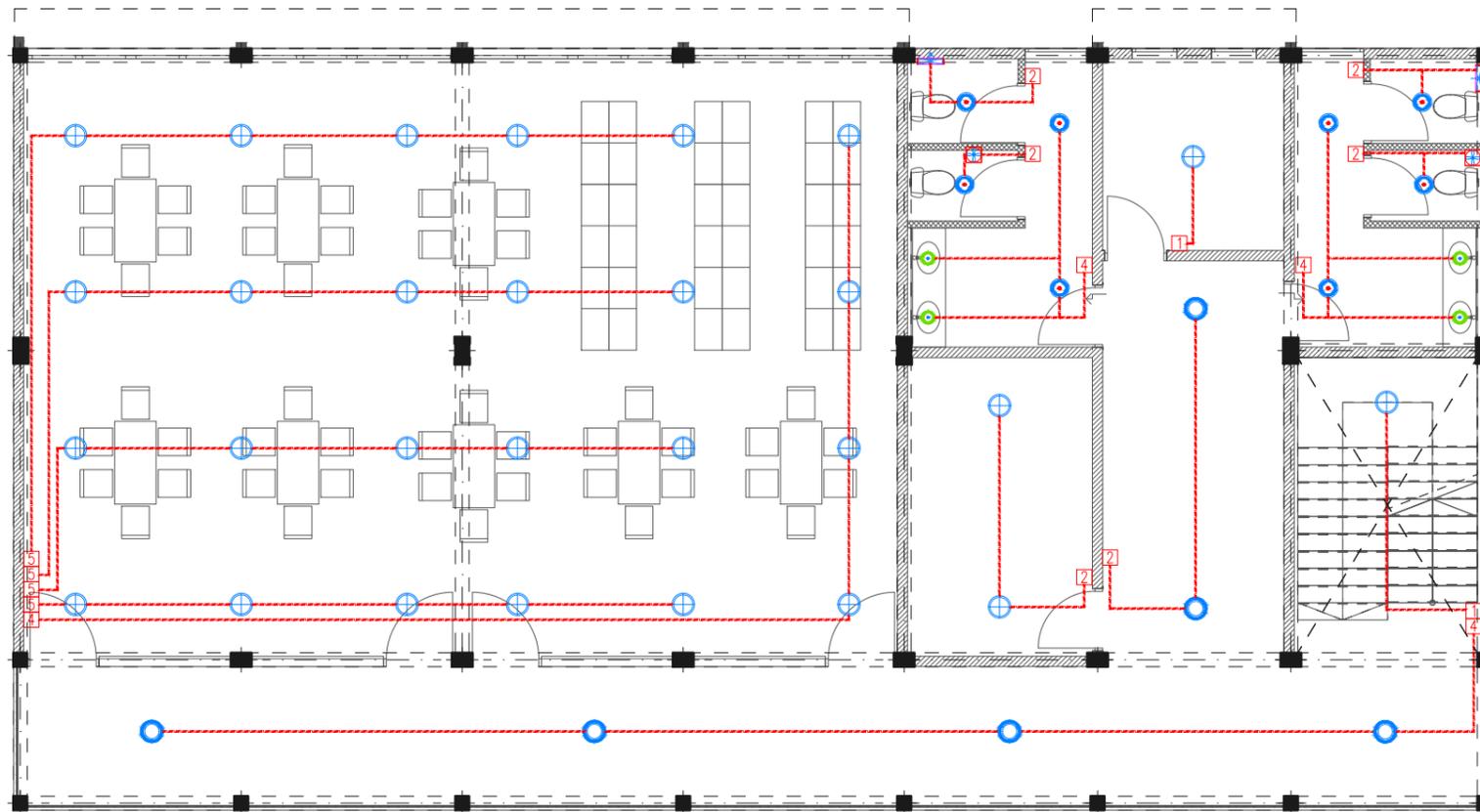


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Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  3 Ft Led Tube Light
-  Ceiling Recessed Spot Light (3W)
-  Light Switch (1 Gang - 5 Gang)
-  Ceiling Fan Switch With Controller
  
-  42" To 48" Ceiling Fan



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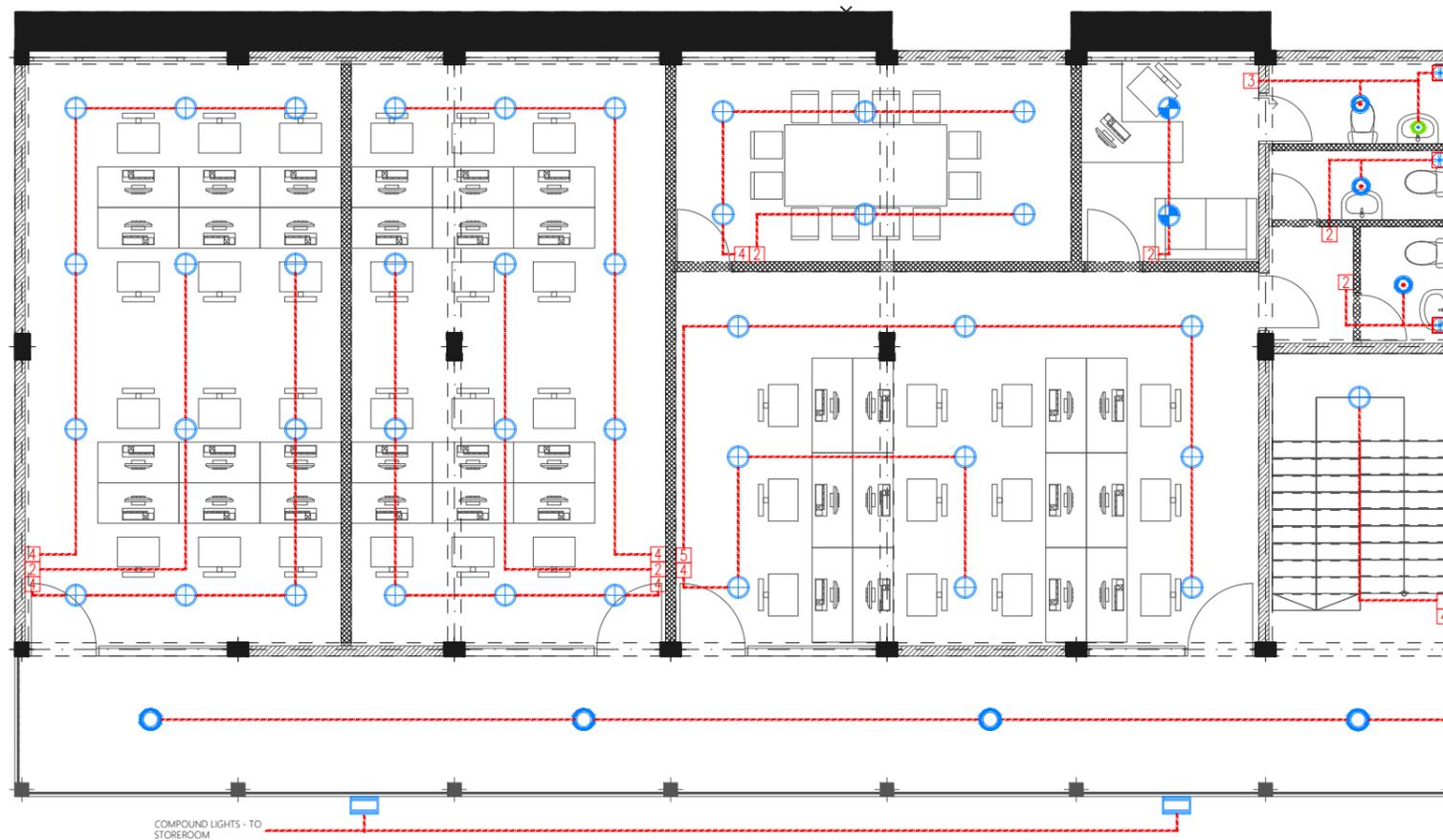
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---	EL -02
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Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  100W, HPS, Wall Mounted Light, IP 65
-  3 Ft Led Tube Light
-  Ceiling Recessed Spot Light (3W)
-  Light Switch (1 Gang - 5 Gang)
-  Ceiling Fan Switch With Controller



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**SECOND FLOOR LIGHTING LAYOUT**

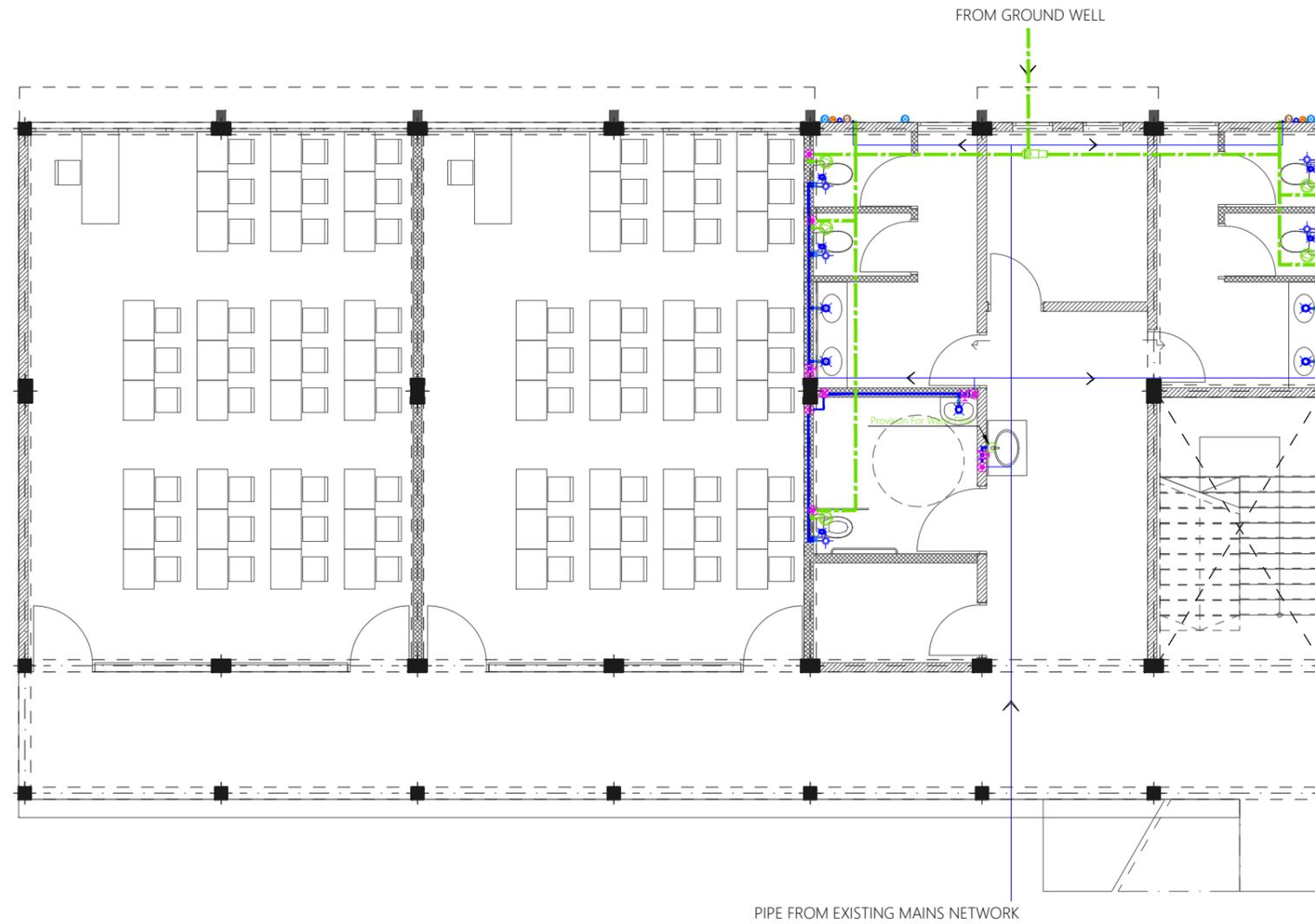
1:100

Legend

-  16Ø Cold Water Supply To Basin Faucet
-  16Ø Cold Water Supply To Bidet Shower
-  16Ø Cold Water Supply To Cistern
-  Gate Valve
-  Rise In Wall
-  Drop In Wall
-  Angle Valve with cap for Ground Water Supply
-  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
-  25Ø Ground Water Supply Pipes Running Above False Ceiling

Notes: -

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



GROUND FLOOR PLUMBING LAYOUT

1:1106

PROPOSED 03 STOREY BUILDING  
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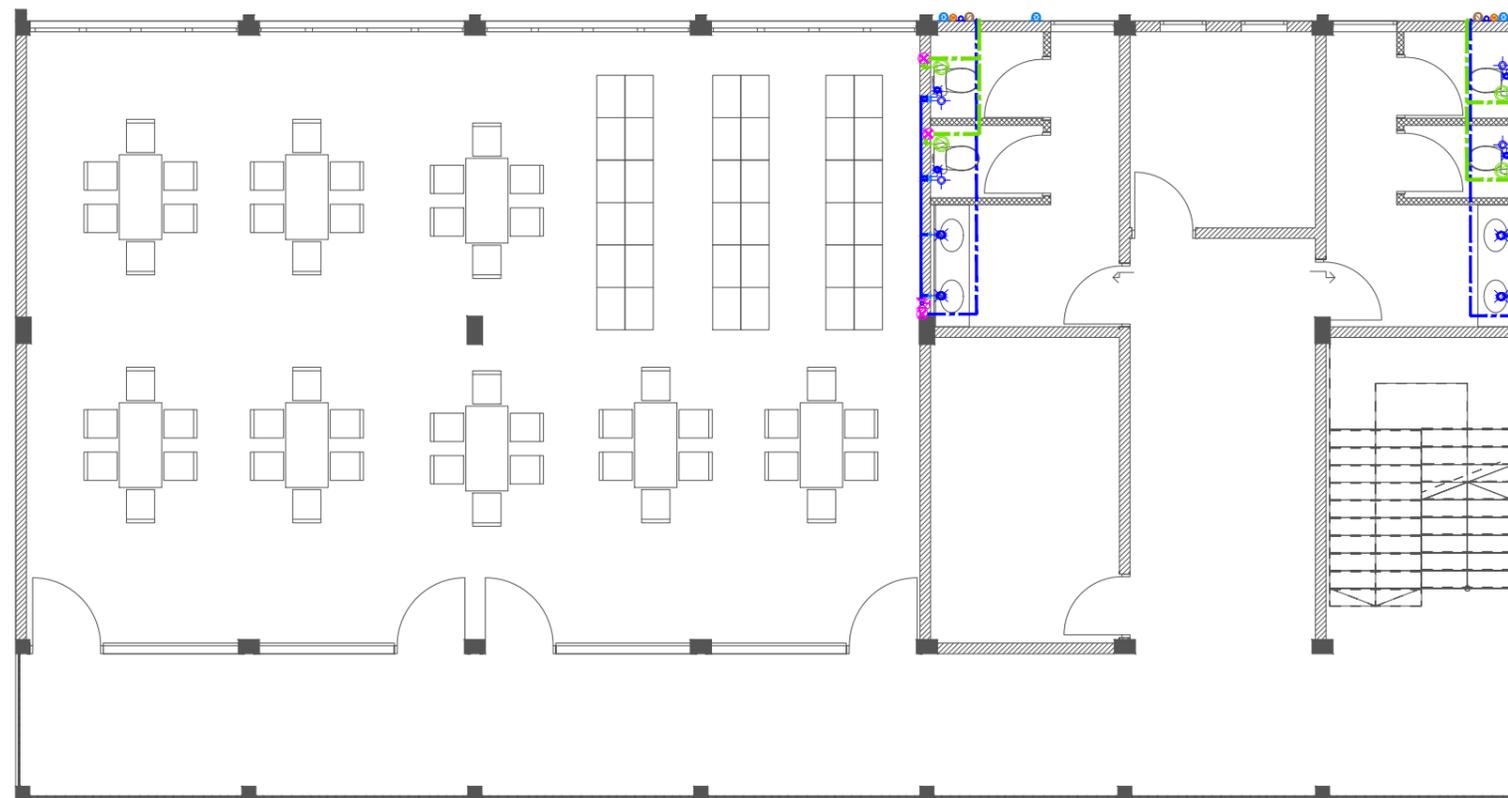
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Legend

-  16Ø Cold Water Supply To Basin Faucet
-  16Ø Cold Water Supply To Bidet Shower
-  16Ø Cold Water Supply To Cistern
-  Gate Valve
-  Rise In Wall
-  Drop In Wall
-  Angle Valve with cap for Ground Water Supply
-  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
-  25Ø Ground Water Supply Pipes Running Above False Ceiling

Notes: -

- All Cold Water Pipes Should Be PVC
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**FIRST FLOOR PLUMBING LAYOUT**

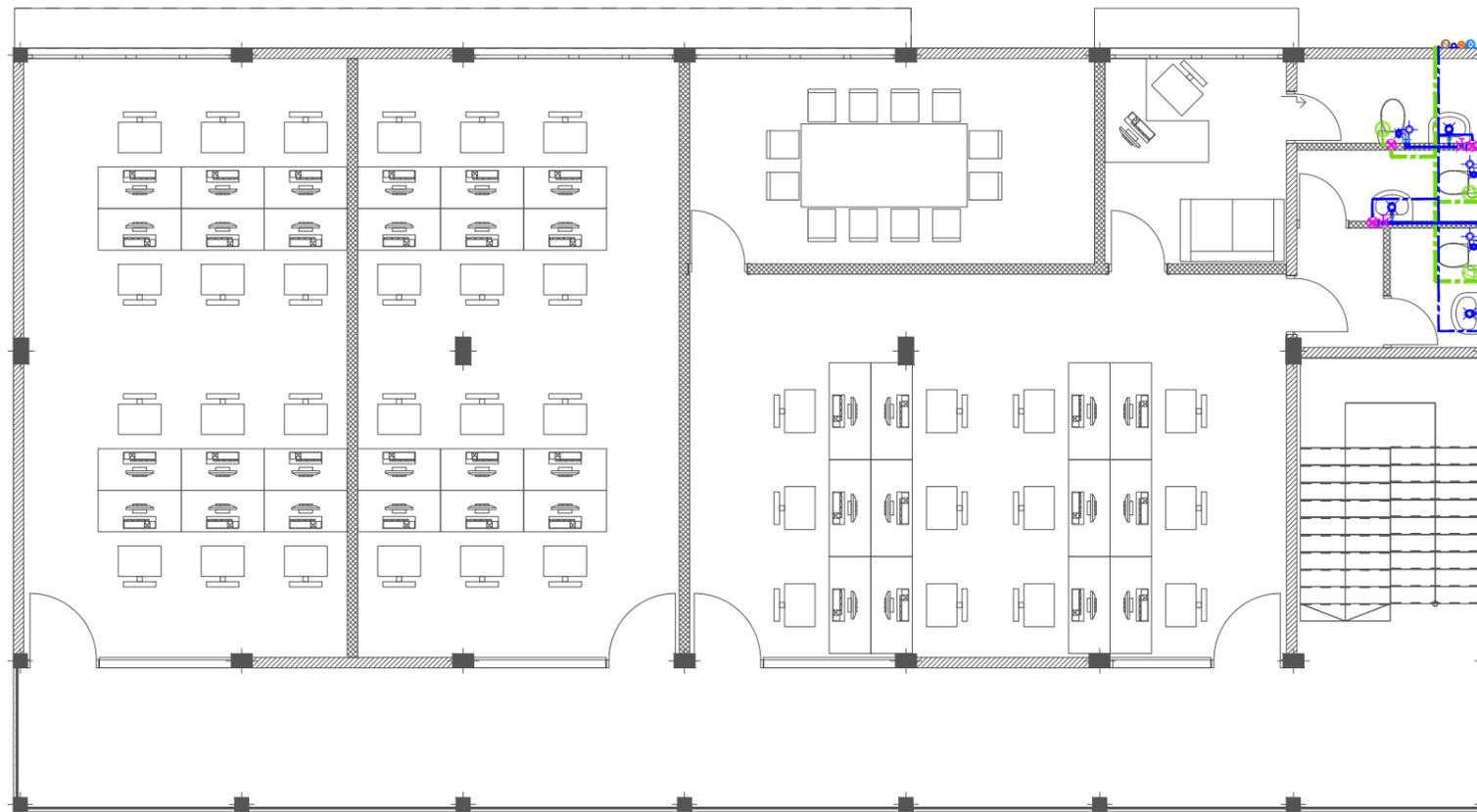
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Notes: -

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- All Hot Water Pipes Should Be PPR



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**SECOND FLOOR PLUMBING LAYOUT**

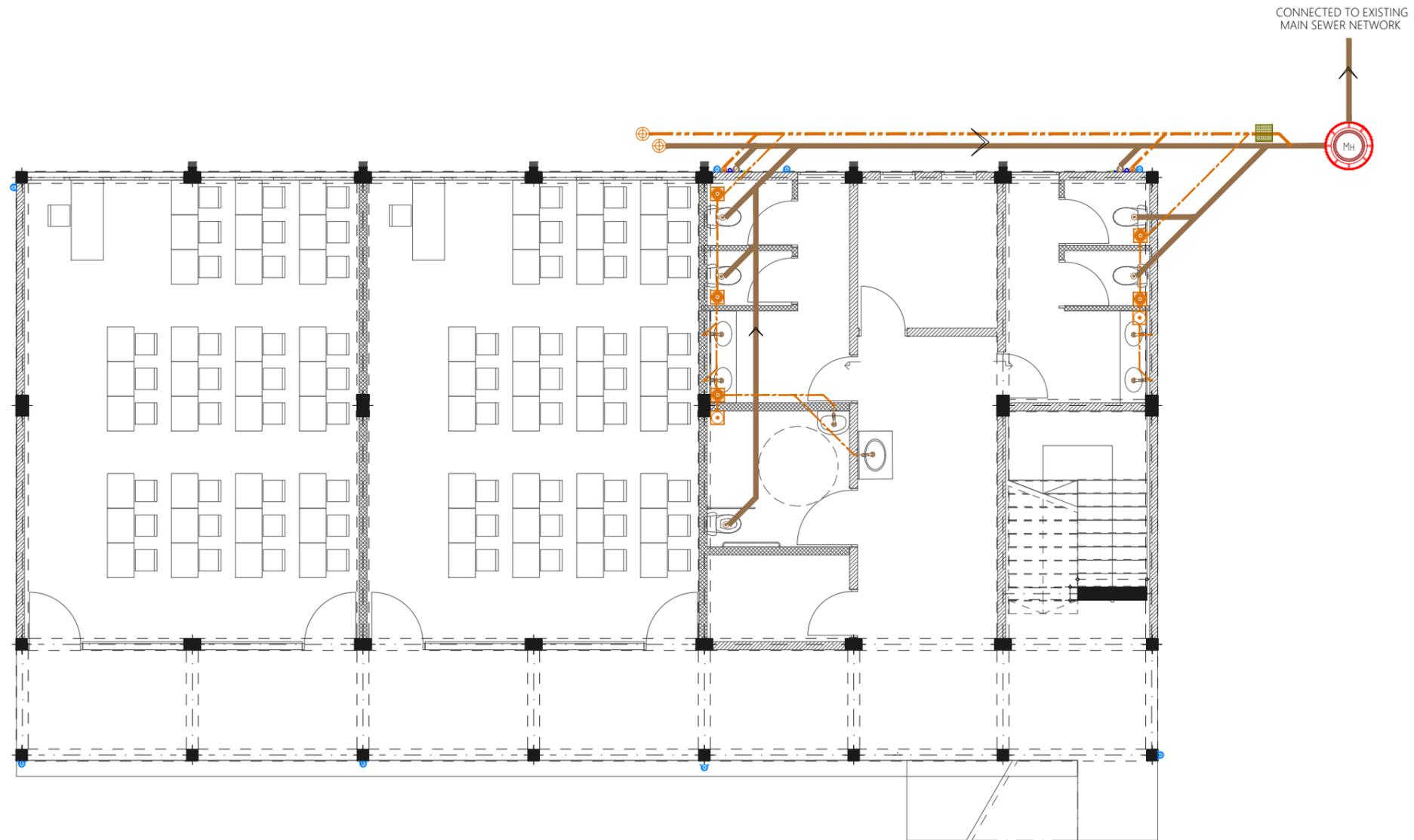
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**Legend**

-  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)
-  110Ø Rainwater Outlet Perforated Cowl
-  Gully Trap
-  Rodding Eye
-  Bottle Trap
-  Floor Drain
-  Floor Gully

**Notes: -**

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



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**GROUND FLOOR DRAINAGE LAYOUT**

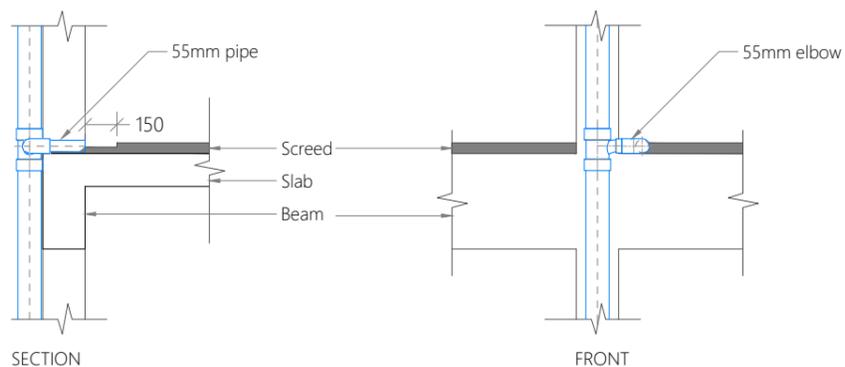
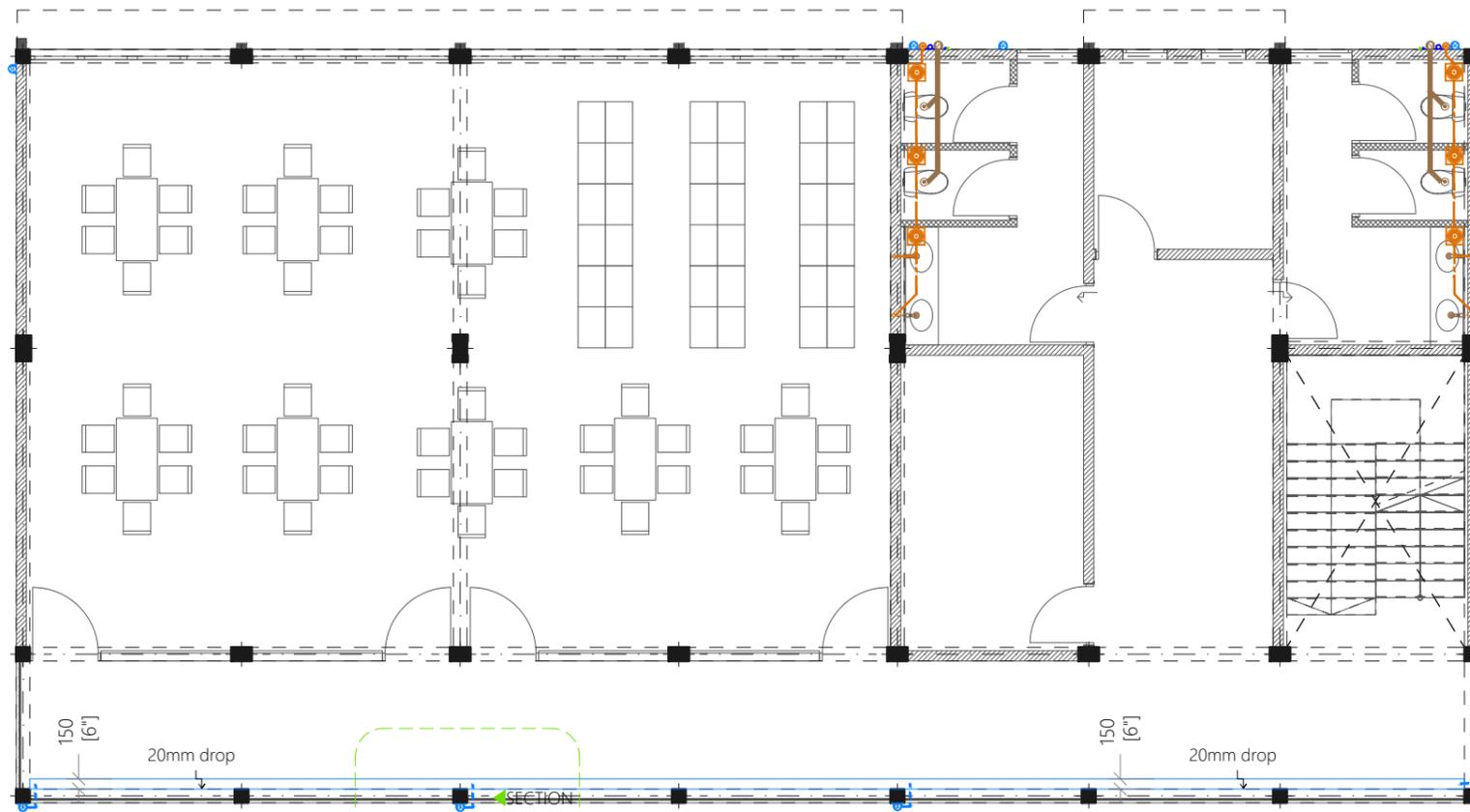
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Legend

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-  40Ø Waste Pipe (uPVC Pipe)
-  63Ø Manhole Vent Pipe (uPVC Pipe)
-  110Ø Rain Water Pipes (uPVC Pipe)
-  110Ø Rainwater Outlet Perforated Cowl
-  Gully Trap
-  Bottle Trap
-  Floor Drain
-  Floor Gully

Notes: -

- All Drainage Pipes Should Have At A Slope Of 1/150
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DETAIL A-A

FIRST FLOOR DRAINAGE LAYOUT

1:100

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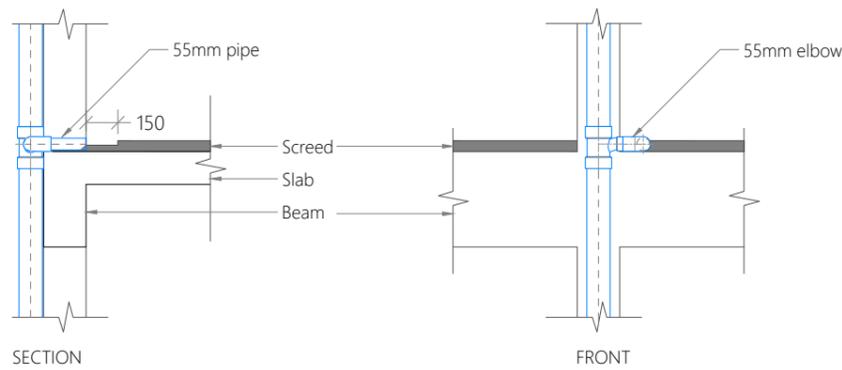
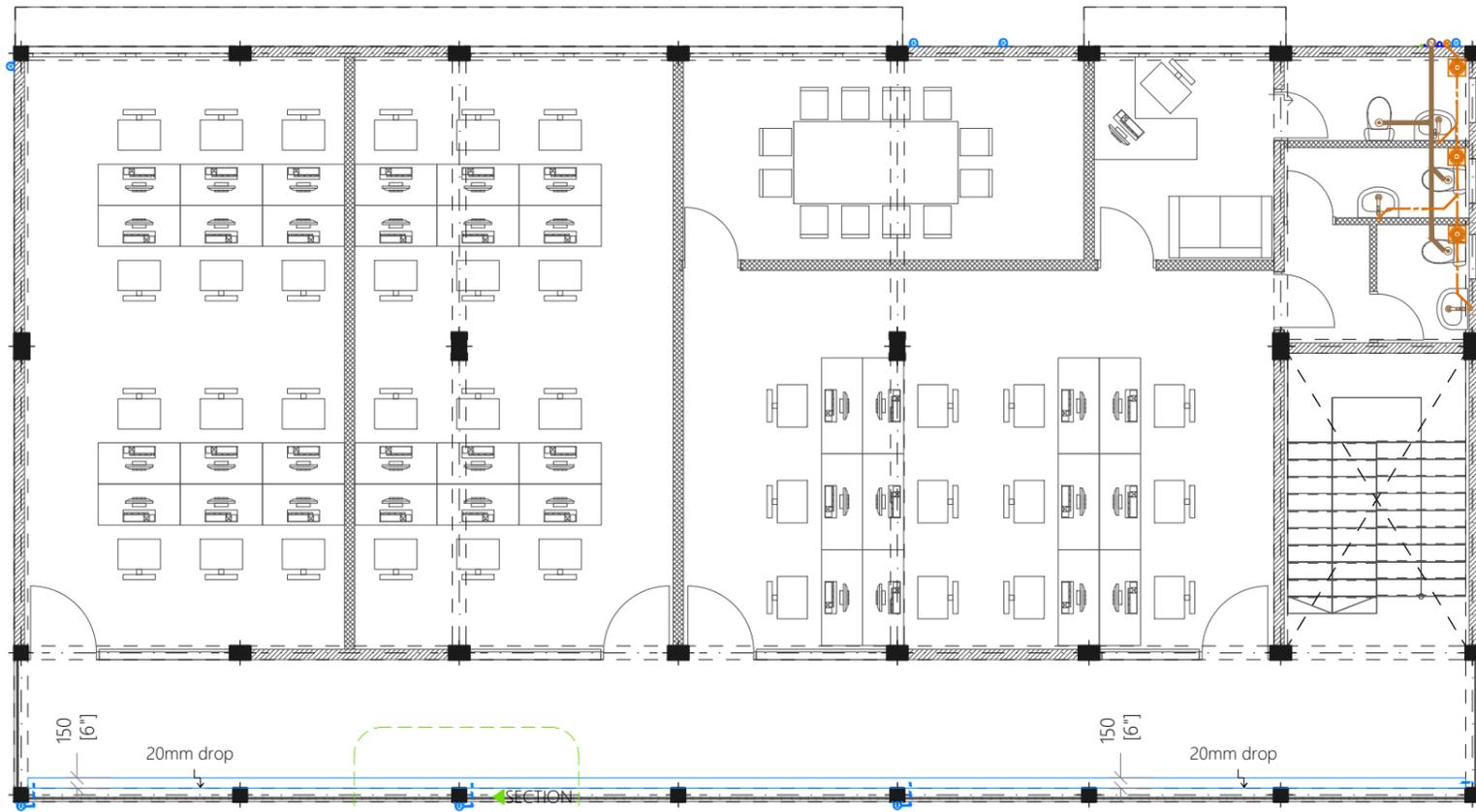
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**Legend**

-  110Ø Soil Pipe (uPVC Pipe)
-  110Ø Soil Vent Pipe (uPVC Pipe)
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-  82Ø Waste Vent Pipe (uPVC Pipe)
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-  Gully Trap
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-  Floor Drain
-  Floor Gully

**Notes: -**

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



DETAIL A-A

**SECOND FLOOR DRAINAGE LAYOUT**

1:100

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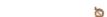
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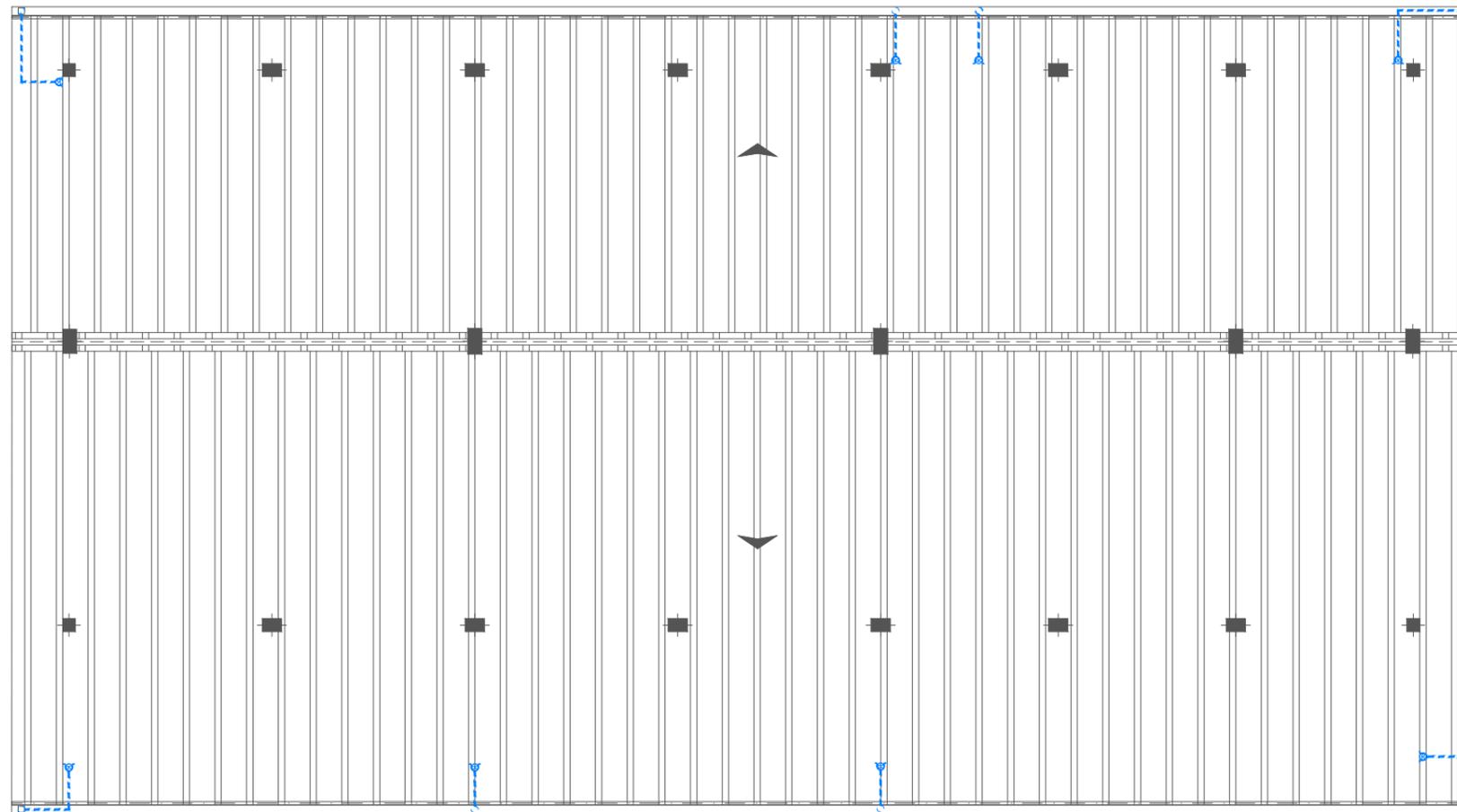
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Legend

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-  110Ø Soil Vent Pipe (uPVC Pipe)
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-  82Ø Waste Vent Pipe (uPVC Pipe)
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