
























Adh. Dhigurah 03 Storey Building 08 Classroom, AV Room,
Principle Room, Safe Room, Leading Teacher Room,
Printing Room, Server Room & Office

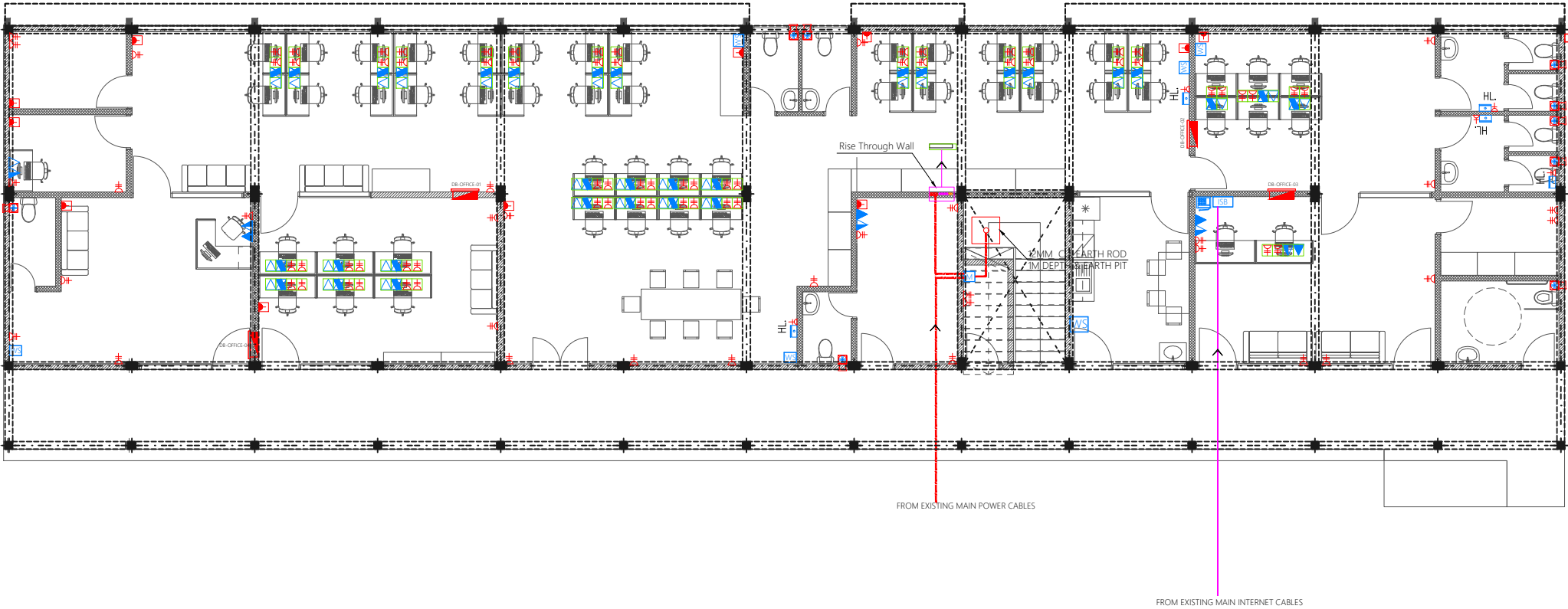
BUILDING SERVICES DRAWINGS

Ministry of Education, Maldives

Legend

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



#	REVISION	BY	APP	DATE

Project :
Adh. Dhigurah 3 Storey Building
Client :
Ministry of Education, Maldives

Prepared by



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

DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
DRAWN: Hussain Rasheed	APPROVED: Mohamed Rassam

Page Title
Ground Floor Plan

Scale : A3 1:150

Doc No : -

Date :Monday, May 08, 2023

Rev No : | **Pg :** PAC-01

GROUND FLOOR POWER AND ACV LAYOUT

1:150

Legend

13A Twin Socket

13A Power Socket

15A Switched Socket @ H.L. (Provision for AC)

13A Twin Socket In Floor Mount Pop-up Box

Distribution Board

HL

High Level

Emergency Light

Wall Mounted Speaker

Computer Network Twin Outlet

Computer Network Twin Outlet In Floor Mount Pop-up Box

Telephone Extension

Telephone Extension In Floor Mount Pop-up Box

Telephone Outlet

Computer Network Outlet

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EPOCH

T: +960 333 3528, E: info@epoch.associates,

W: www.epoch.associates, A:G.Rosary West, 3rd Floor, Husnuheena Magu, Male', Maldives

DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
DRAWN: Hussain Rasheed	APPROVED: Mohamed Rassam

Page Title
First Floor Plan

Scale : A3 1:150

Doc No : -


















Date :Monday, May 08, 2023

Rev No : | **Pg :** PAC-02

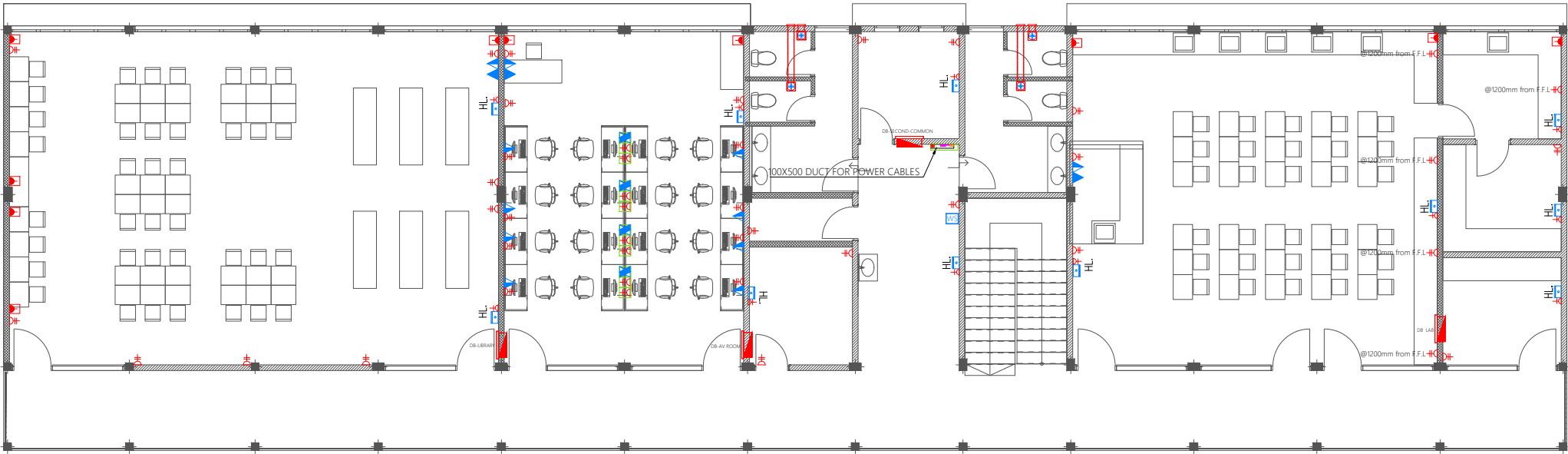
FIRST FLOOR POWER AND ACV LAYOUT

1:150

Legend

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-  13A Power Socket
-  15A Switched Socket @ H.L. (Provision for AC)
-  13A Twin Socket In Floor Mount Pop-up Box
-  Distribution Board
-  H.L. High Level
-  Emergency Light
-  Wall Mounted Speaker
-  Computer Network Twin Outlet
-  Computer Network Twin Outlet In Floor Mount Pop-up Box
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-  Telephone Extension In Floor Mount Pop-up Box
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Floor, Husnuheena Magu, Male', Maldives

DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
DRAWN: Hussain Rasheed	APPROVED: Mohamed Rassam

Page Title
Second Floor Plan

Scale : A3 1:150

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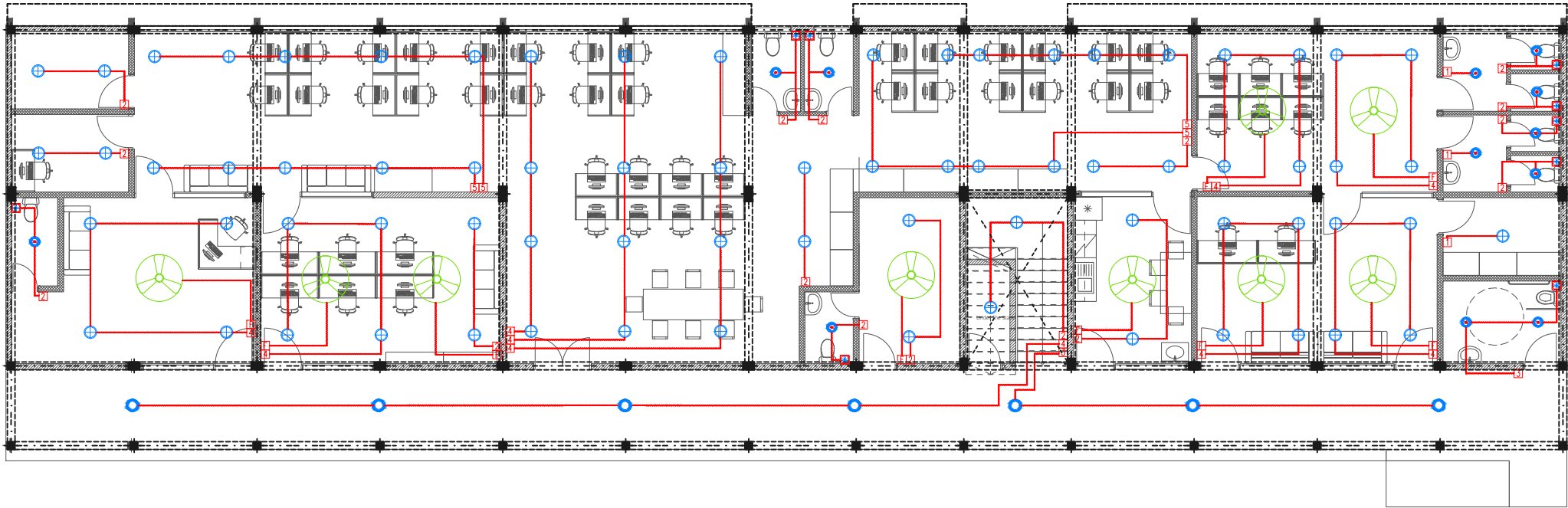
Rev No : | **Pg :** PAC-03

SECOND FLOOR POWER AND ACV LAYOUT

1:150

Legend

- Ceiling Light (18W)
- Ceiling Light (12W)
- Recessed Ceiling Light (12W)
- Ceiling Down Light (18W) - Weather Proof
- 3 Ft Led Tube Light
- 100W, HPS, Wall Mounted Light, IP 65
- Ceiling Recessed Spot Light (3W)
- Light Switch (1 Gang - 5 Gang)
- Ceiling Fan Switch With Controller
- 42" To 48" Ceiling Fan
- Ceiling Mounted Exhaust Fan 90m3/hr



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T: +960 333 3528, E: info@epoch.associates,
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Floor, Husnuheena Magu, Male, Maldives

DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
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Page Title
Ground Floor Plan

Scale : A3 1:150

Doc No : -












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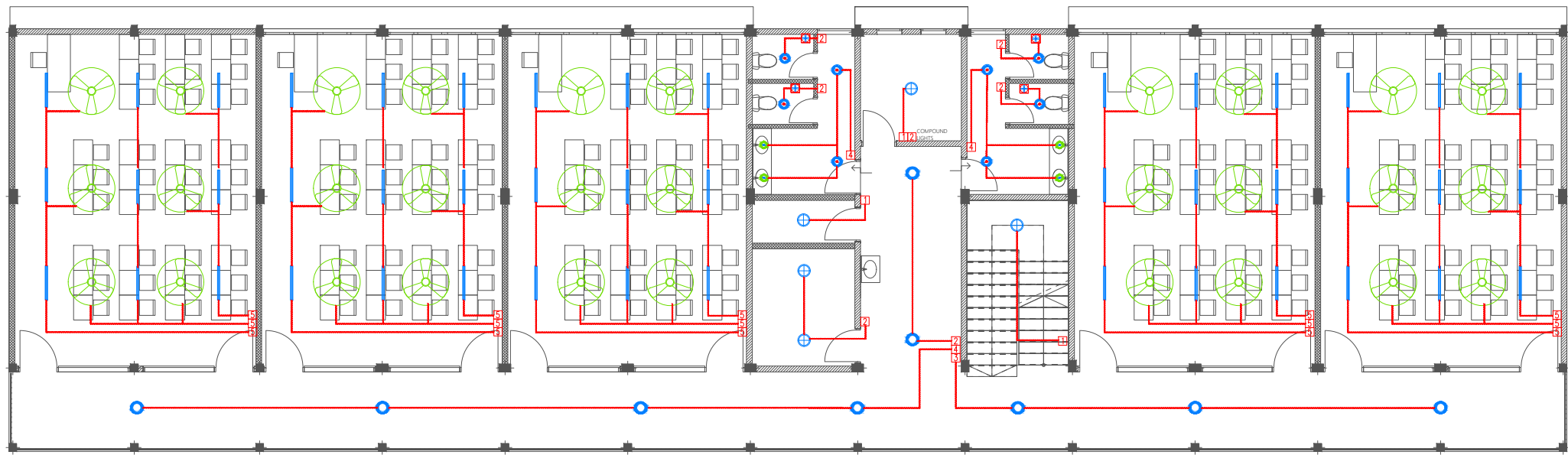
Rev No : | **Pg :** EL-01

GROUND FLOOR LIGHTING LAYOUT

1:150

Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  3 Ft Led Tube Light
-  100W, HPS, Wall Mounted Light, IP 65
-  Ceiling Recessed Spot Light (3W)
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-  Ceiling Fan Switch With Controller
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-  Ceiling Mounted Exhaust Fan 90m3/hr



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T: +960 333 3528, E: info@epochassociates,
W: www.epochassociates, A:G.Rosary West, 3rd
Floor, Husnuheena Magu, Male, Maldives

DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
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Page Title
First Floor Plan

Scale : A3 1:150

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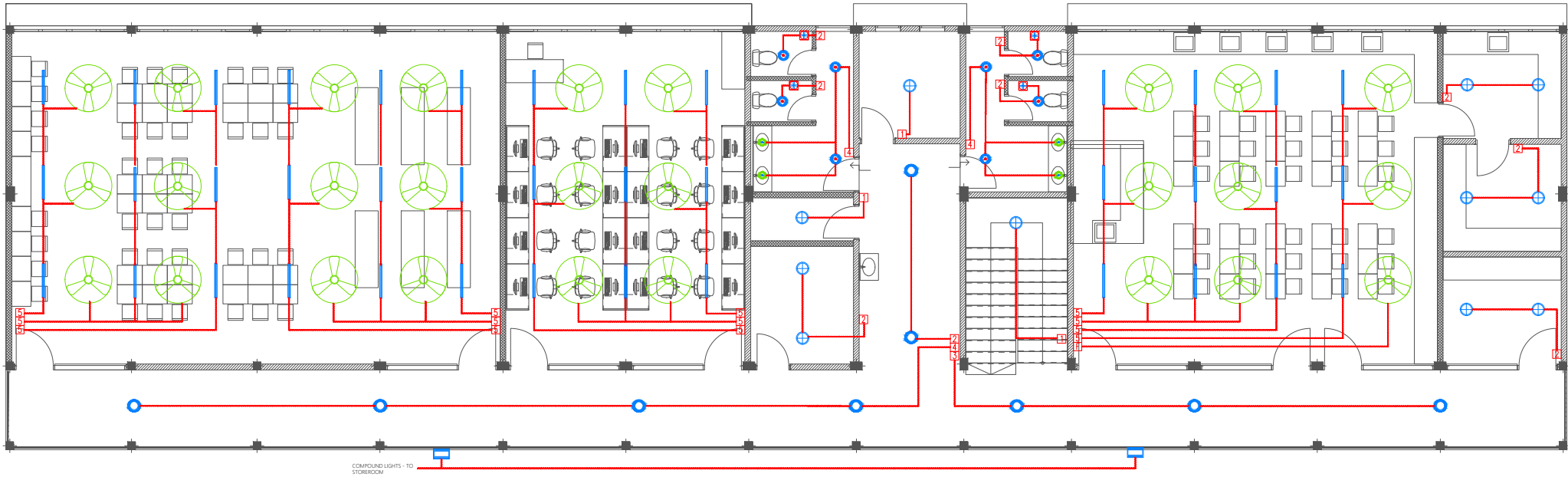
Rev No : | **Pg :** EL-02

FIRST FLOOR LIGHTING LAYOUT

1:150

Legend

- Ceiling Light (18W)
- Ceiling Light (12W)
- Recessed Ceiling Light (12W)
- Ceiling Down Light (18W) - Weather Proof
- 3 Ft Led Tube Light
- 100W, HPS, Wall Mounted Light, IP 65
- Ceiling Recessed Spot Light (3W)
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Floor, Husnuheena Magu, Male', Maldives

DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
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Page Title
Second Floor Plan

Scale : A3 1:150

Doc No : -











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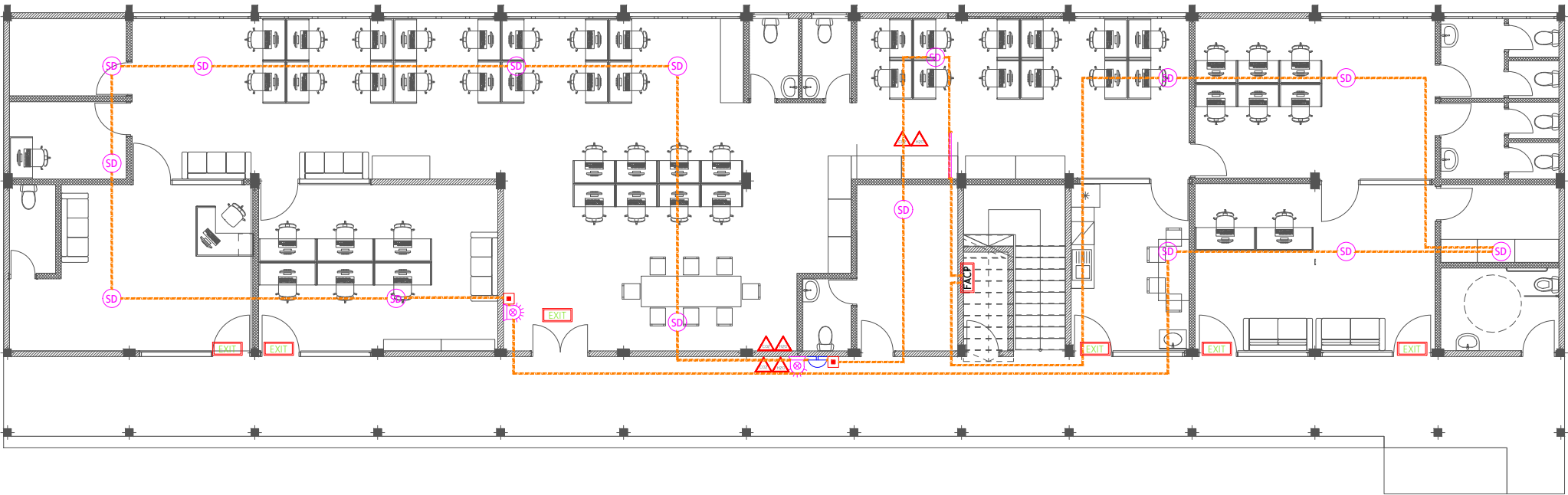
Rev No : | **Pg :** EL-03

SECOND FLOOR LIGHTING LAYOUT

1:150

Legend

-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Heat Detector
-  Beacon
-  Sounder Bell
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
-  Exit Sign
-  Fire Alarm Control Panel



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W: www.epoch.associates, A:G.Rosary West, 3rd
Floor, Husnuheena Magu, Male', Maldives

DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
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Page Title
Ground Floor Plan

Scale : A3 1:150

Doc No : –


Date :Monday, May 08, 2023

Rev No : | **Pg :** FDP-01


GROUND FLOOR FIRE DETECTION AND PROTECTION LAYOUT

1:150


Legend




CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure




H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure




Manual Call Point




Smoke Detector




Heat Detector




Beacon




Sounder Bell



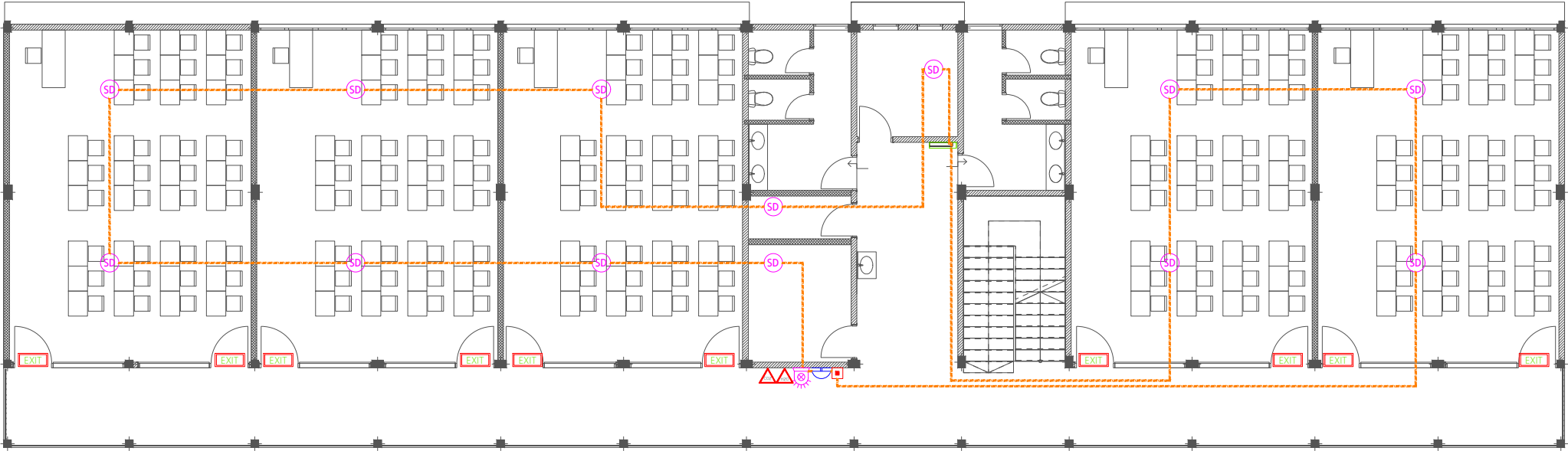
2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits



Exit Sign



Fire Alarm Control Panel



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T: +960 333 3528, E: info@epoch.associates,
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DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
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Page Title
First Floor Plan

Scale : A3 1:150

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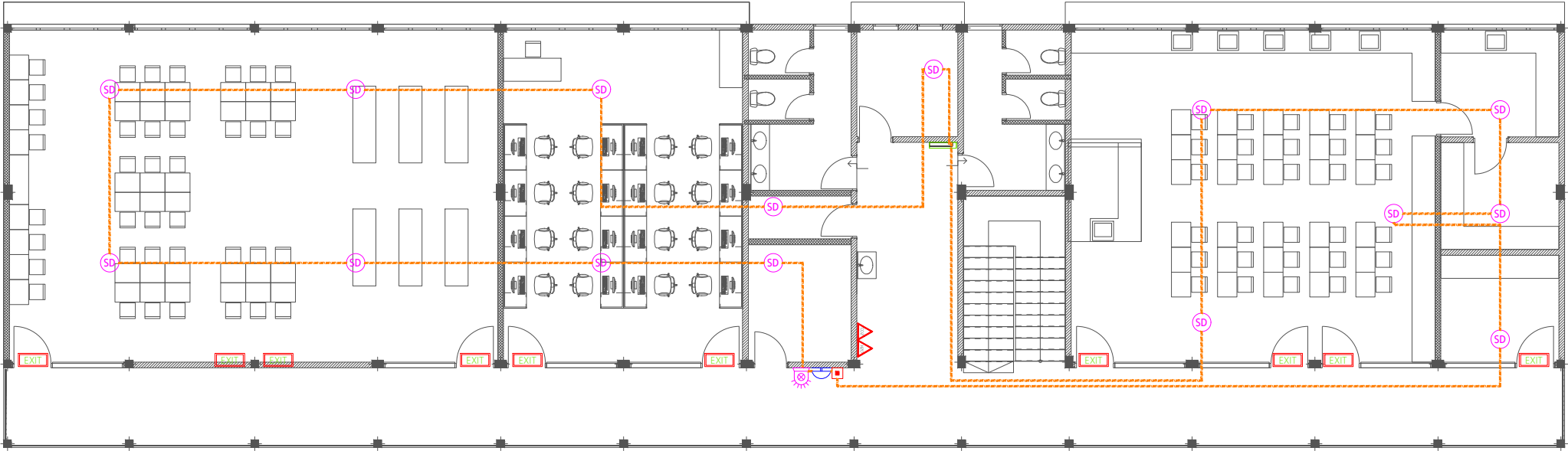
Date :Monday, May 08, 2023

Rev No : | **Pg :** FDP-02

FIRST FLOOR FIRE DETECTION AND PROTECTION LAYOUT

1:150

- Legend
- CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
 - H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
 - Manual Call Point
 - Smoke Detector
 - Heat Detector
 - Beacon
 - Sounder Bell
 - 2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
 - Exit Sign
 - Fire Alarm Control Panel



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DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
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Page Title
Second Floor Plan

Scale : A3 1:150

Doc No : –

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Rev No : | **Pg :** FDP-03

SECOND FLOOR FIRE DETECTION AND PROTECTION LAYOUT

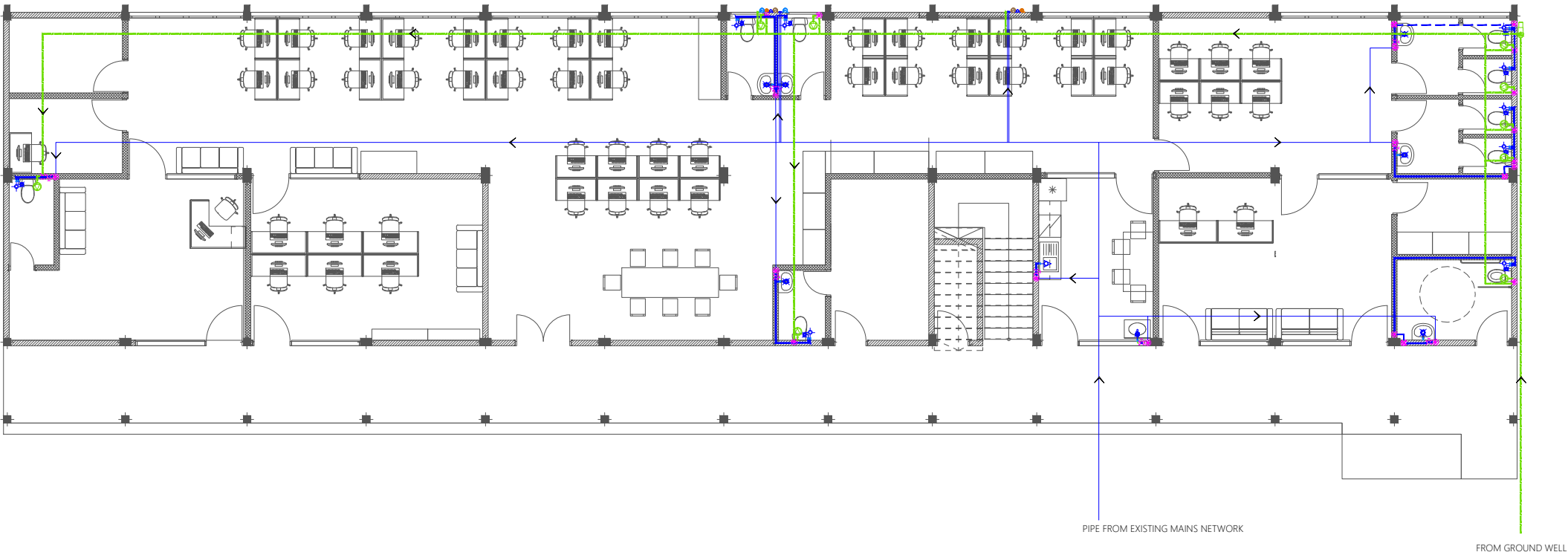
1:150

Legend

- 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 Water Filter Tap
- 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
- Well Water Pump

Notes: -

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



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

DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
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Page Title
Ground Floor Plan

Scale : A3 1:150


Doc No : -


Date :Monday, May 08, 2023


Rev No : | **Pg :** PL-01


GROUND FLOOR PLUMBING LAYOUT


1:150


- Legend
- 


160 Cold Water Supply To Basin Faucet
- 


160 Cold Water Supply To Bidet Shower
- 


160 Cold Water Supply To Cistern
- 


160 Cold Water Supply To Water Filter Tap
- 


Gate Valve
- 


Rise In Wall
- 

Drop In Wall
- 

Angle Valve with cap for Ground Water Supply
- 

250 Cold Water Supply Pipes Running Underground
- 

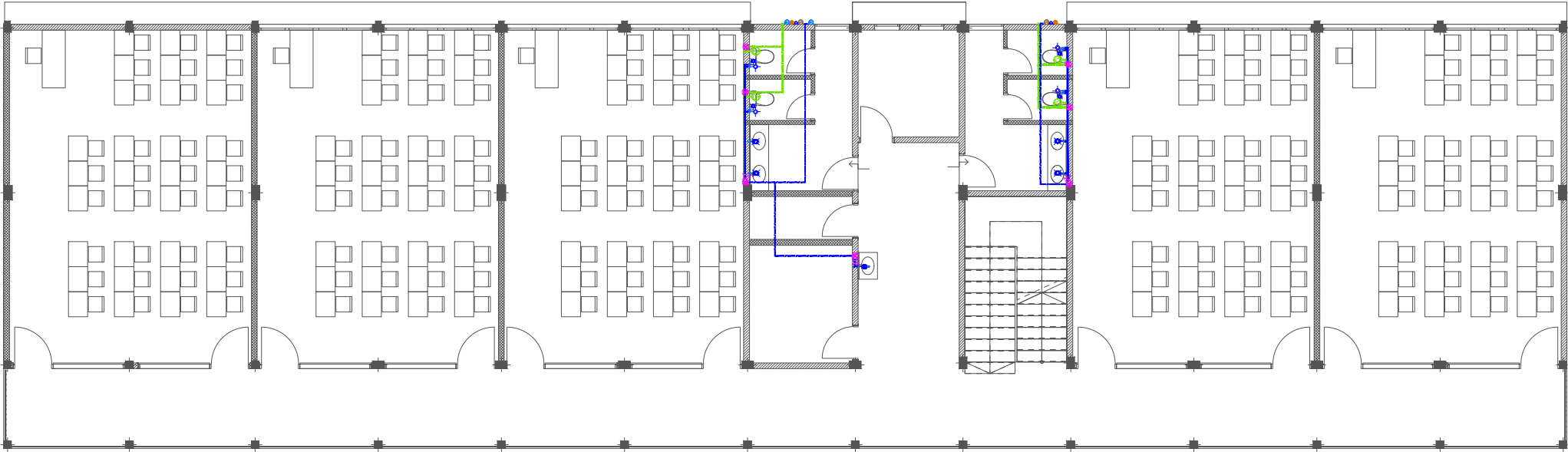
200 Cold Water Supply Pipes Running In Wall
- 

200 Cold Water Supply Pipes Running Above False Ceiling
- 

250 Ground Water Supply Pipes

Notes: -

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



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Project :

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Client :

Ministry of Education, Maldives

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T: +960 333 3528, E: info@epoch.associates,

W: www.epoch.associates, A:G.Rosary West, 3rd Floor, Husnuheena Magu, Male', Maldives

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Page Title

First Floor Plan

Scale : A3 1:150

Doc No : -


Date :Monday, May 08, 2023


Rev No :


Pg : PL-02


FIRST FLOOR PLUMBING LAYOUT


1:150


- Legend
- 


160 Cold Water Supply To Basin Faucet
- 


160 Cold Water Supply To Bidet Shower
- 


160 Cold Water Supply To Sink Tap
- 


160 Cold Water Supply To Cistern
- 


160 Cold Water Supply To Water Filter Tap
- 


Gate Valve
- 


Rise In Wall
- 


Drop In Wall
- 

Angle Valve with cap for Ground Water Supply
- 

250 Cold Water Supply Pipes Running Underground
- 

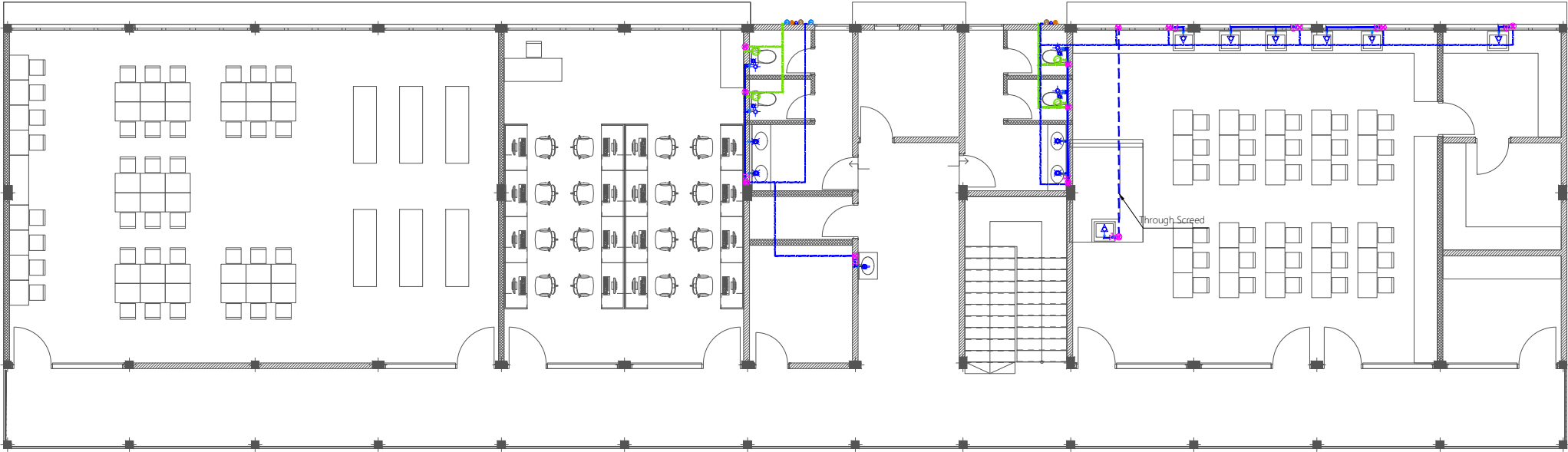
200 Cold Water Supply Pipes Running In Wall
- 

200 Cold Water Supply Pipes Running Above False Ceiling
- 

250 Ground Water Supply Pipes
- 

200 Cold Water Supply Pipes Running Through Screed

Notes: -
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-Sll Hot Water Pipes Should Be PPR



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Page Title
Second Floor Plan

Scale : A3 1:150

Doc No : -

Date :Monday, May 08, 2023

Rev No : | **Pg :** PL-03

SECOND FLOOR PLUMBING LAYOUT

1:150

Legend

Floor Drain

Floor Gully

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)

110Ø Rainwater Outlet Perforated Cowl

Gully Trap

Manhole

Clean Out Point

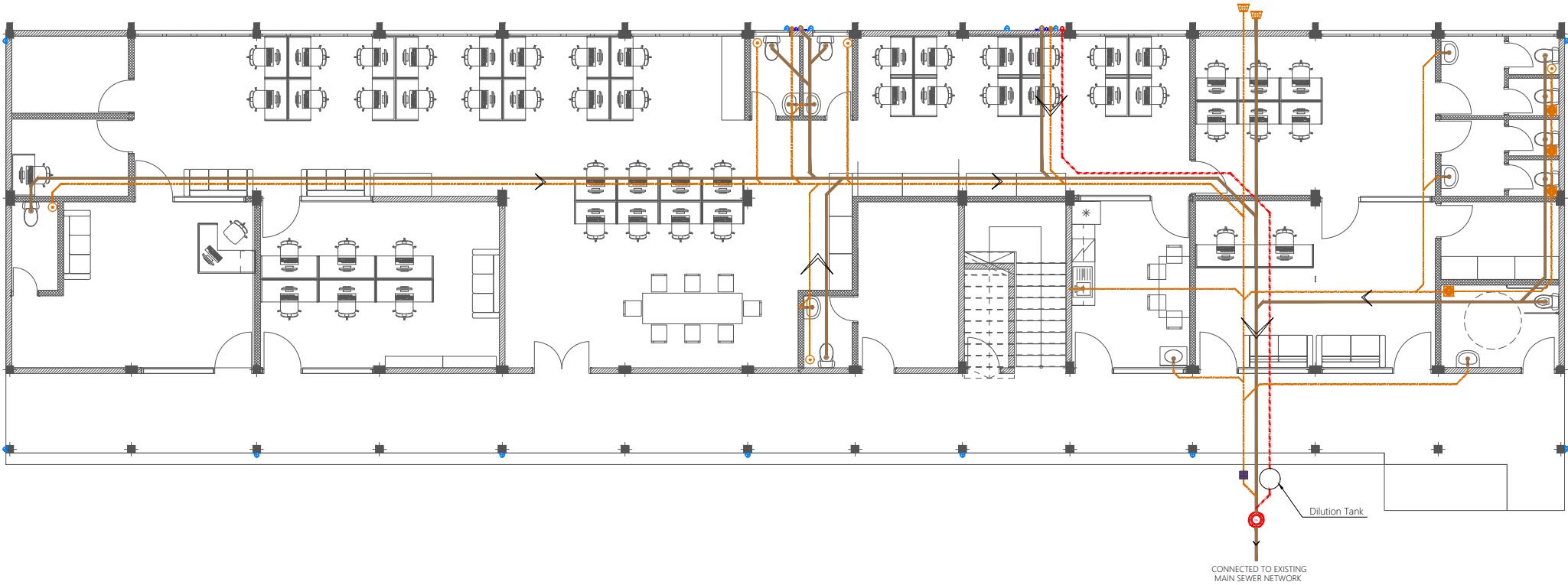
Bottle Trap

Bottle Trap For Sink

Notes : -

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

-All Floor Drains Should Have 'P' Traps



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Page Title
Ground Floor Plan

Scale : A3 1:150

Doc No : -

Date :Monday, May 08, 2023

Rev No : | **Pg :** DR-01

GROUND FLOOR DRAINAGE LAYOUT

1:150

Legend

Floor Drain

Floor Gully

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

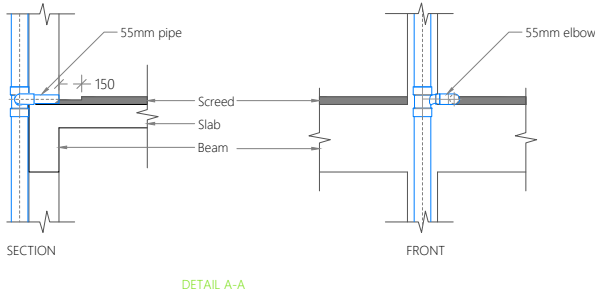
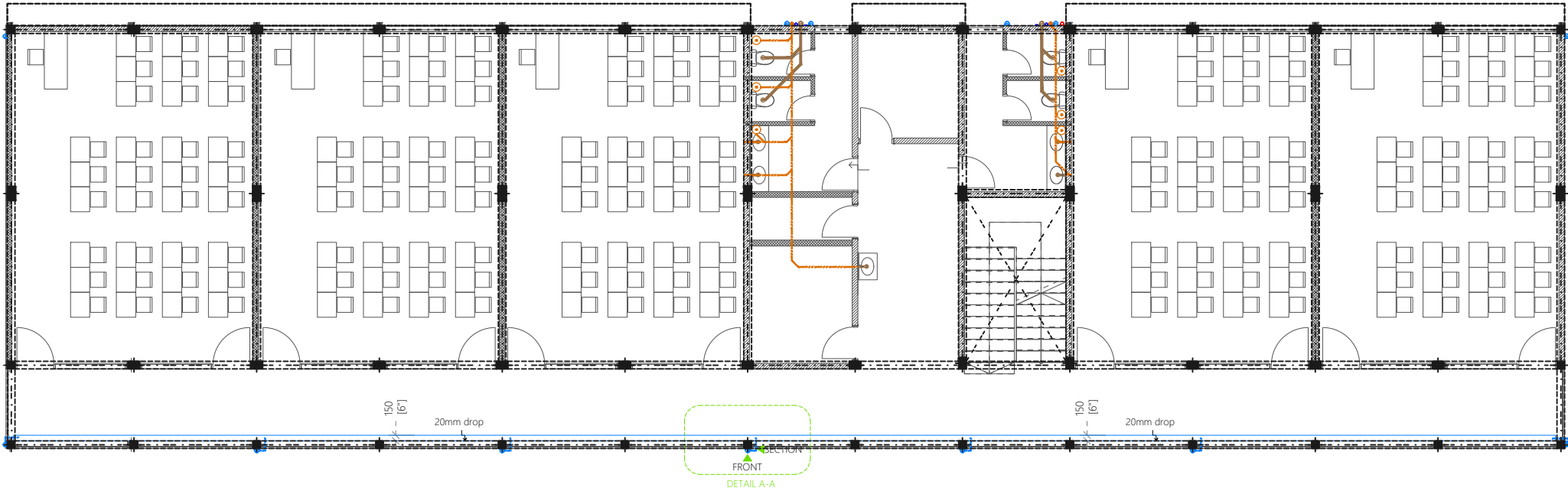
Gully Trap

Bottle Trap

Notes :-

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-All Floor Drains Should Have "P" Traps



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Page Title
First Floor Plan

Scale : A3 1:150

Doc No : -

Date :Monday, May 08, 2023

Rev No : | **Pg :** DR-02

FIRST FLOOR DRAINAGE LAYOUT

1:150

Legend

Floor Drain

Floor Gully

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)

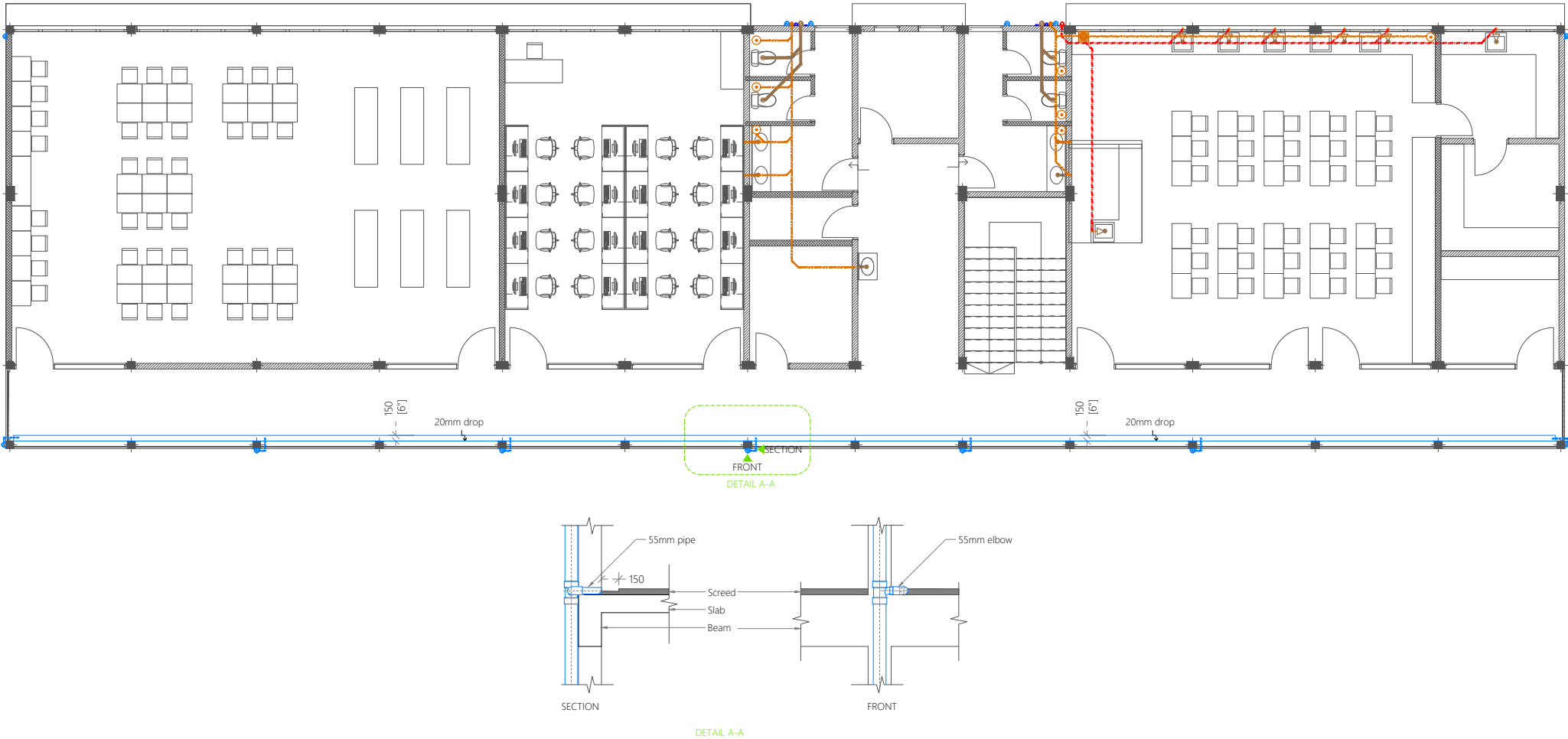
Bottle Trap For Sink

Bottle Trap

Notes: -

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-All Floor Drains Should Have 'P' Traps



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T: +960 333 3528, E: info@epoch.associates,
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Page Title
Second Floor Plan

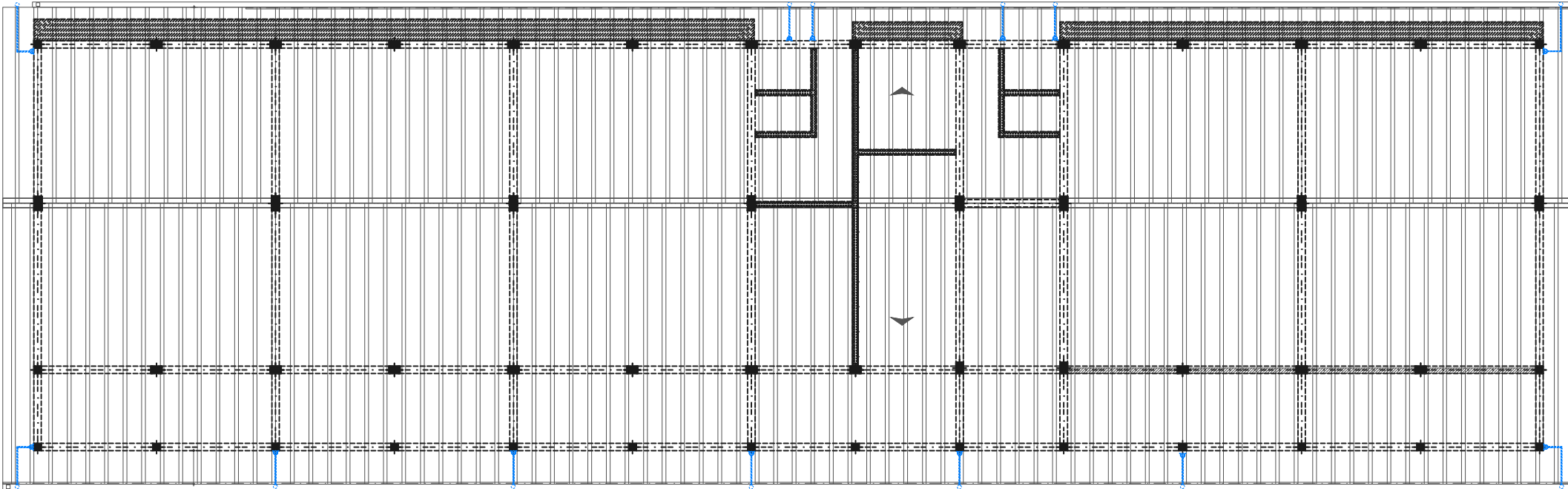
Scale : A3 1:150

Doc No : -

Date :Monday, May 08, 2023

Rev No :	Pg : DR-03
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SECOND FLOOR DRAINAGE LAYOUT



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W: www.epoch.associates, A:G.Rosary West, 3rd
Floor, Husnuheena Magu, Male', Maldives

DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
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Page Title
Roof Plan

Scale : A3 1:150

Doc No : –

Date :Monday, May 08, 2023

Rev No :	Pg : DR-04
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ROOF DRAINAGE LAYOUT

1:150