

BUILDING SERVICES DRAWINGS OF

PROPOSED 03 STOREY BUILDING AT

N.MANADHOO, 3 STOREY SCHOOL BUILDING
8 CLASSROOMS, LIBRARY, AV ROOM,
LABORATORY, COMPUTER LAB, HEALTH ROOM
AND COUNSELING ROOM

For Ministry Of Education, Maldives



















By Epoch Associates Pvt. Ltd



EPOCH

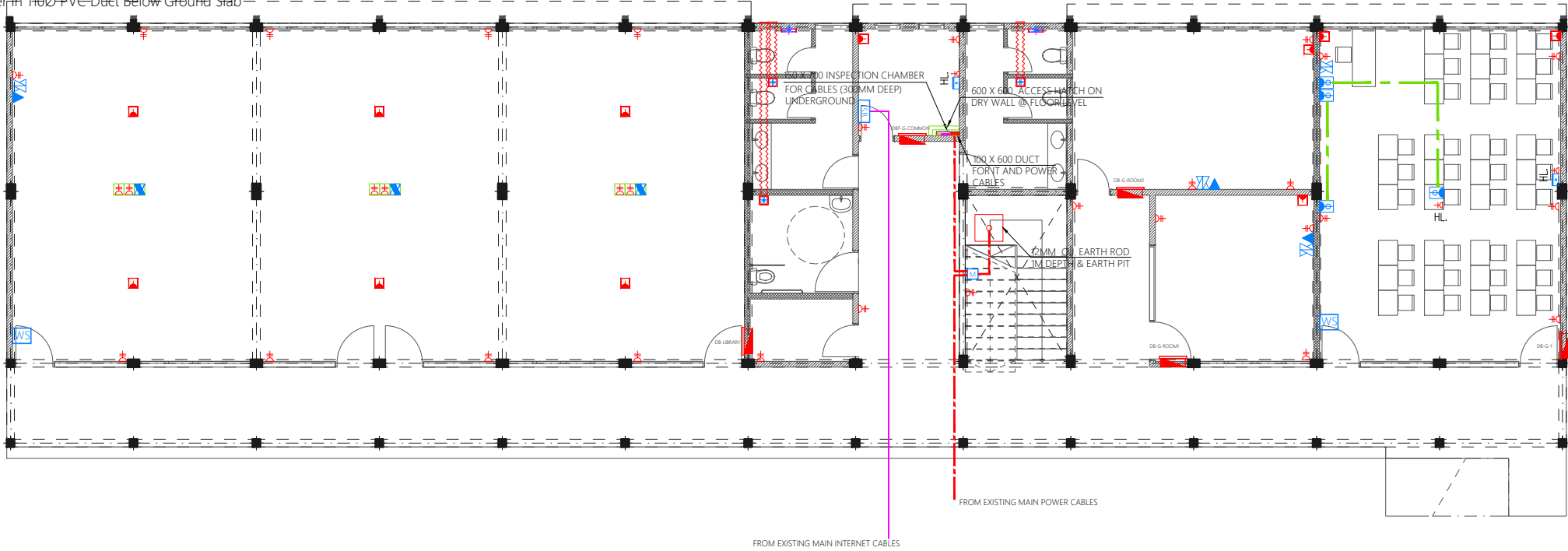
T: +960 333 3528 **E:** info@epoch.associates **W:** www.epoch.associates
A: 3rd Floor, G.Rosary West, Husnuheena Magu, Male' Republic of Maldives

Legend

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



GROUND FLOOR POWER AND ACV LAYOUT
1:150


















PROPOSED 03 STOREY
**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**
Client:
Ministry Of Education

March 2021
Services By: Mohamed Rassam
Checked By:
Drawn By: Hussain Rasheed


EPOCH
T: +960 333 3528, E: info@epoch.associates
W: www.epoch.associates, A: G.Rosary West,
Husnuheenaa Magu, Male' Republic of Maldives



Rev:	Page:
---	PAC-01
---	---
---	---

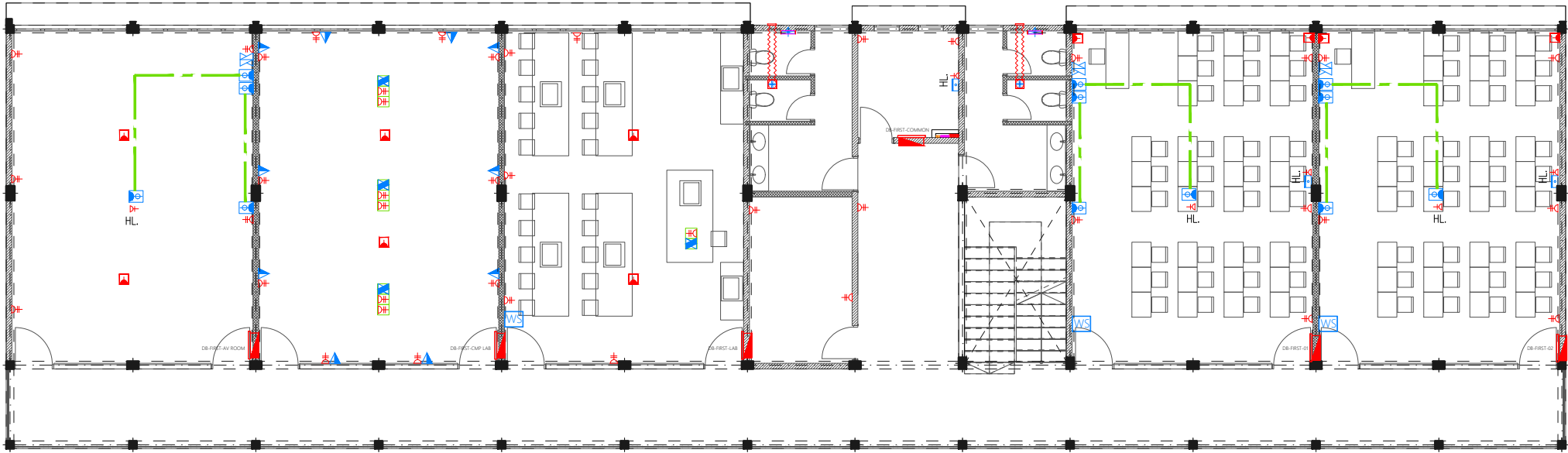
Legend

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

Legend

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



FIRST FLOOR POWER AND ACV LAYOUT
1:150

PROPOSED 03 STOREY
**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**
Client:
Ministry Of Education


March 2021


Services By: Mohamed Rassam
Checked By:
Drawn By: Hussain Rasheed



EPOCH
T: +960 333 3528, E: info@epoch.associates
W: www.epoch.associates, A: G.Rosary West,
Husnuheenaa Magu, Male' Republic of Maldives


Rev:	Page:
---	PAC-02


Legend

- 


13A Twin Socket
- 


13A Power Socket
- 


15A Switched Socket @ H.L.
- 


13A Twin Socket In Floor Mount Pop-up Box
- 


Distribution Board
- HL.


High Level
- 


Emergency Light
- 


Wall Mounted Speaker
- 


Electricity Meter
- 


Public Address System
- 


Computer Network Twin Outlet
- 

Computer Network Twin Outlet 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: -

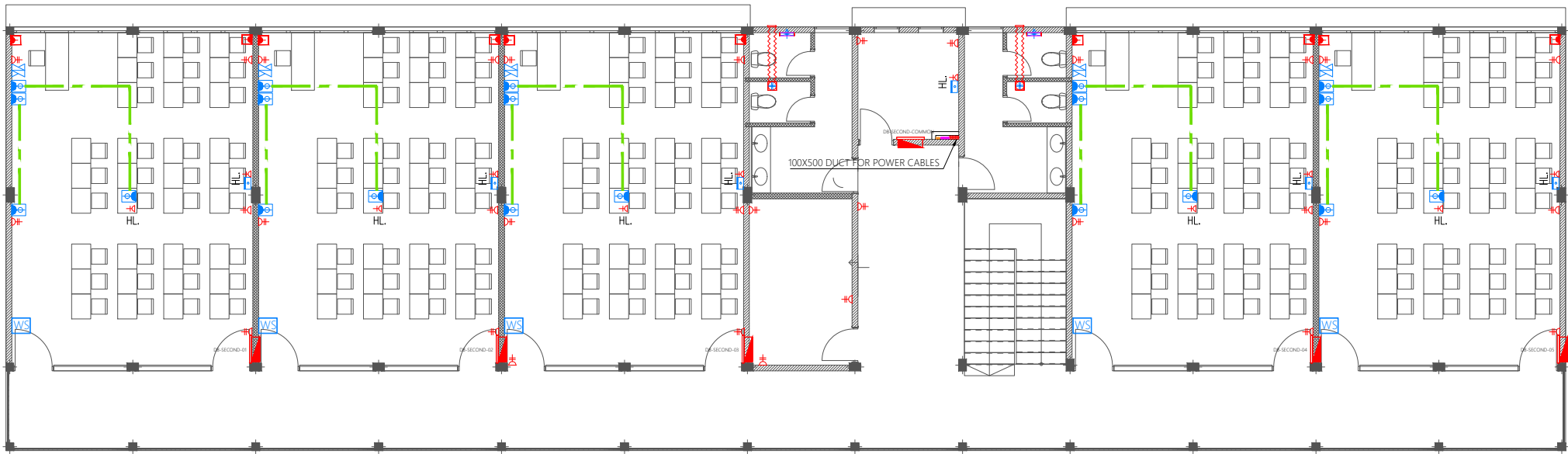
- All Twin Sockets At 300mm From F.F.L. Except Stated Otherwise
- All Computer, Telephone Points At 300mm From F.F.L.
- All electrical components shall be connected to respective Distribution Box in the same area as the component.
- All electrical components in common areas, corridors and staircase should be connected to Common Area DB
- Wall Speaker shall be connected to Public address system of school

Legend

- 

Ceiling Mounted Exhaust Fan 90m3/hr
- 

Wall Mounted Exhaust Fan



SECOND FLOOR POWER AND ACV LAYOUT
1:150











PROPOSED 03 STOREY
**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**
Client:
Ministry Of Education

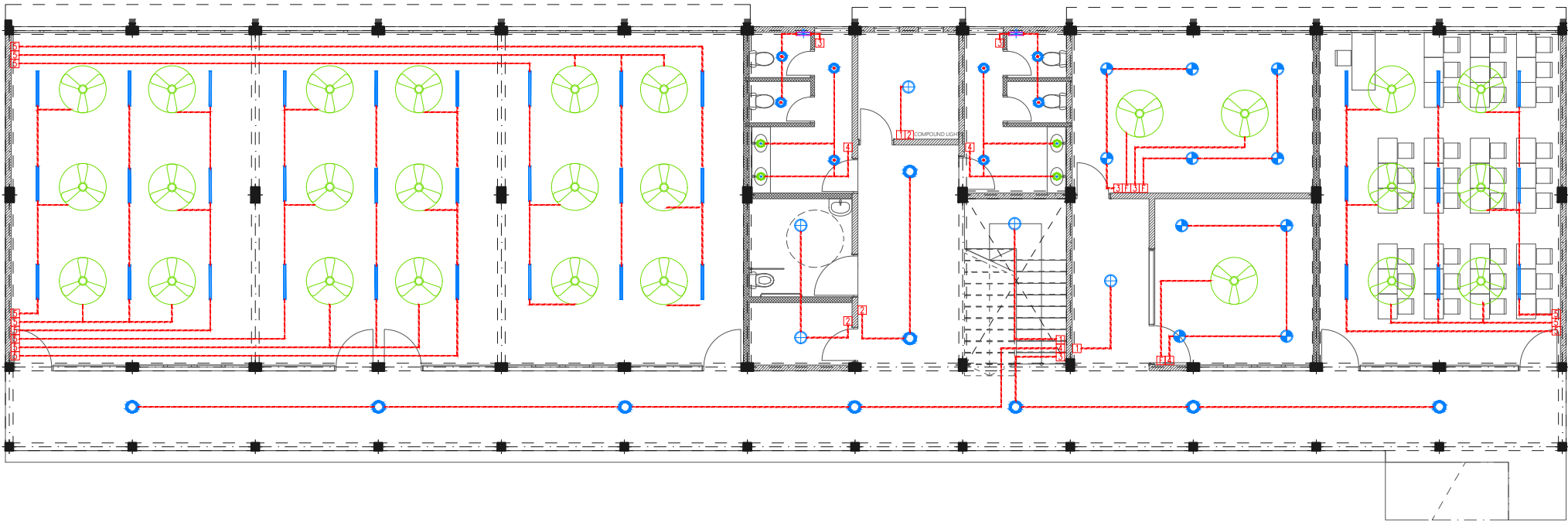
March 2021
Services By: Mohamed Rassam
Checked By:
Drawn By: Hussain Rasheed


EPOCH
T: +960 333 3528, E: info@epoch.associates
W: www.epoch.associates, A: G.Rosary West,
Husnuheenaa Magu, Male' Republic of Maldives

Rev:	Page:
---	PAC-03
---	---

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



PROPOSED 03 STOREY
**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**
Client:
Ministry Of Education











March 2021
Services By: Mohamed Rassam
Checked By:
Drawn By: Hussain Rasheed

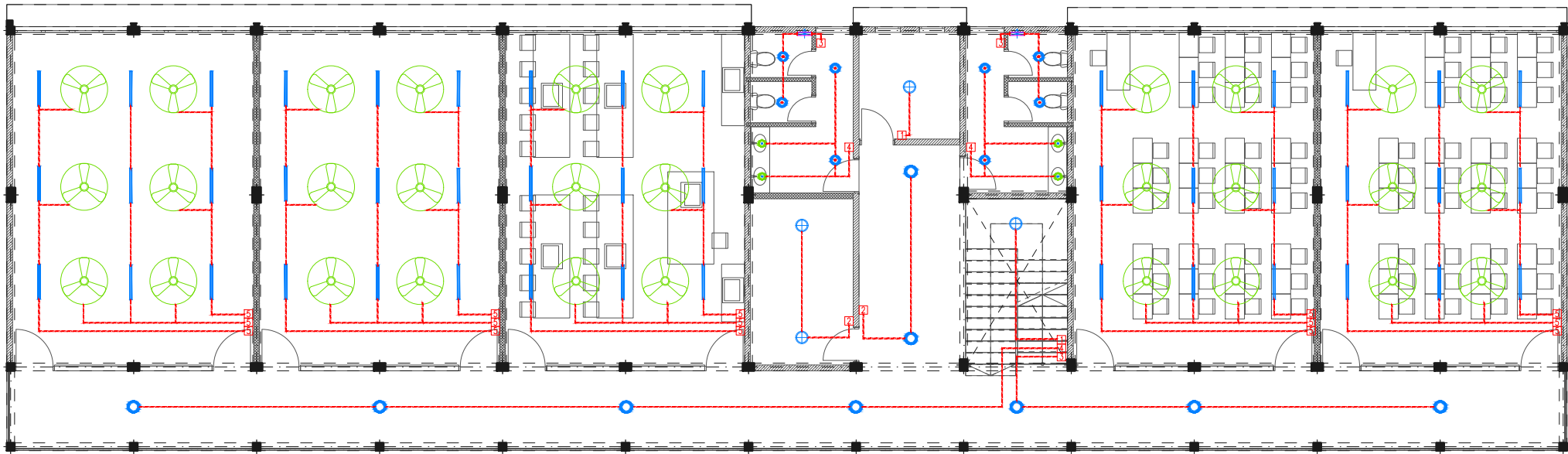

EPOCH
T: +960 333 3528, E: info@epoch.associates
W: www.epoch.associates, A: G.Rosary West,
Husnuheena Magu, Male Republic of Maldives

Rev:	Page:
---	FDP -01
---	1:150

GROUND FLOOR FDP 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



FIRST FLOOR FDP LAYOUT
1:150











PROPOSED 03 STOREY
**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**
Client:
Ministry Of Education

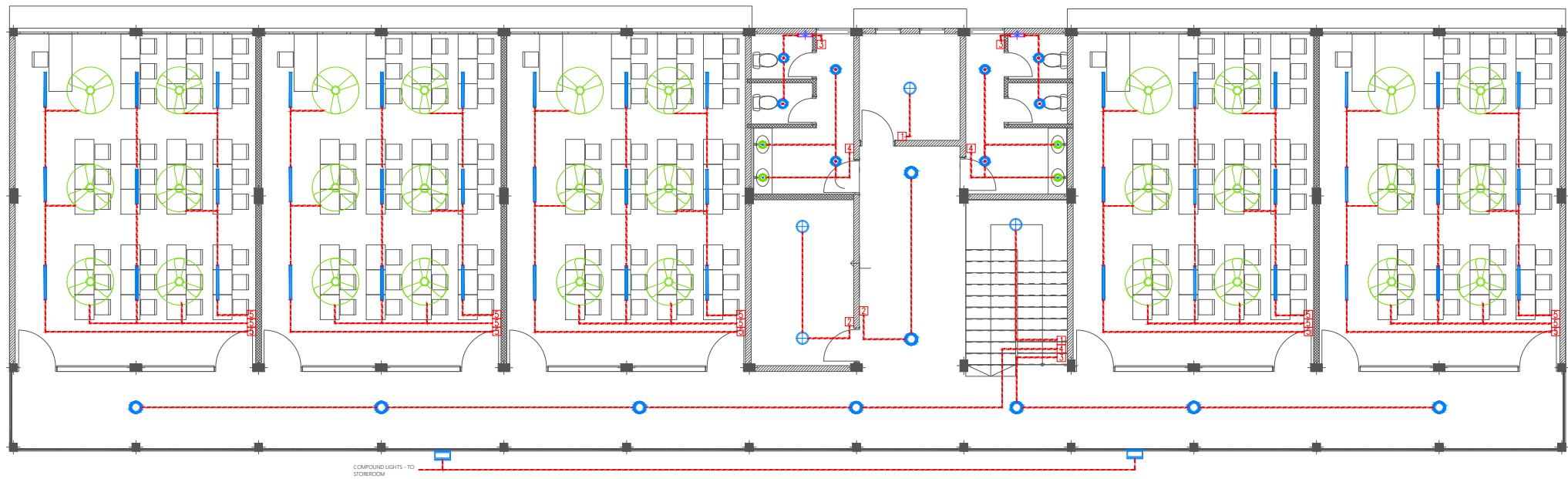
March 2021
Services By: Mohamed Rassam
Checked By:
Drawn By: Hussain Rasheed


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

Rev:	Page:
---	FDP -02
---	---
---	---

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



PROPOSED 03 STOREY

**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**

Client:
Ministry Of Education

March 2021

Services By: Mohamed Rassam
Checked By:
Drawn By: Hussain Rasheed



EPOCH











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

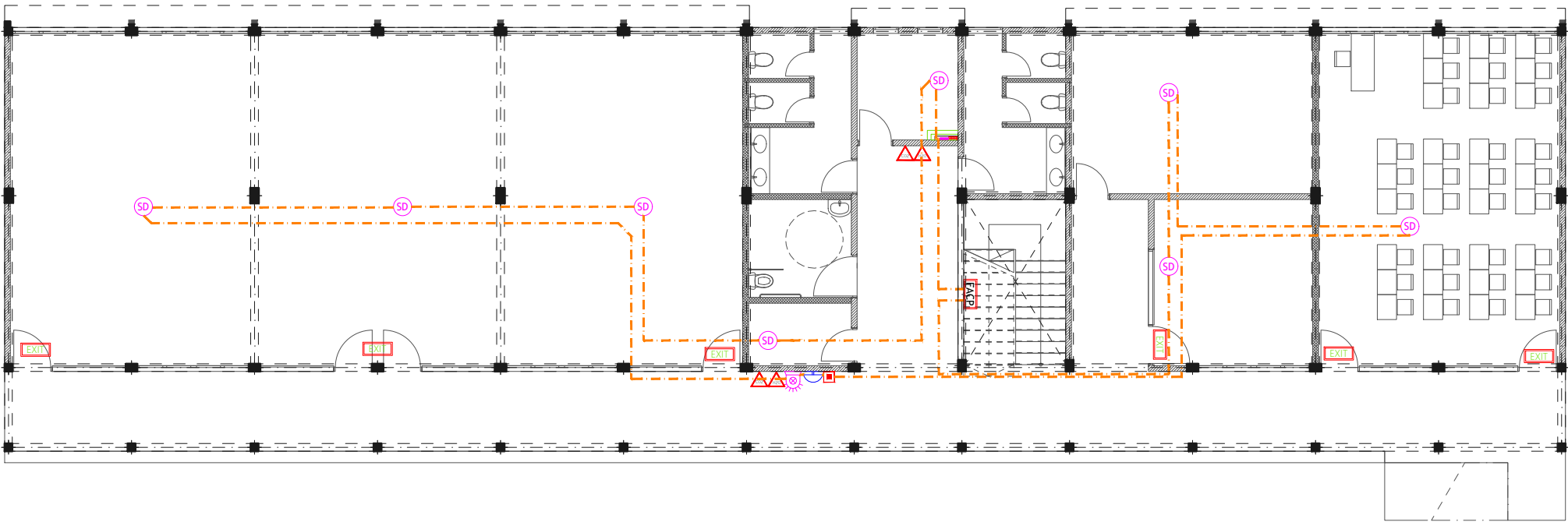
Rev:	Page:
---	FDP -03
---	1:150

SECOND FLOOR FDP 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



GROUND FLOOR LIGHTING LAYOUT
1:150











PROPOSED 03 STOREY
**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**
Client:
Ministry Of Education

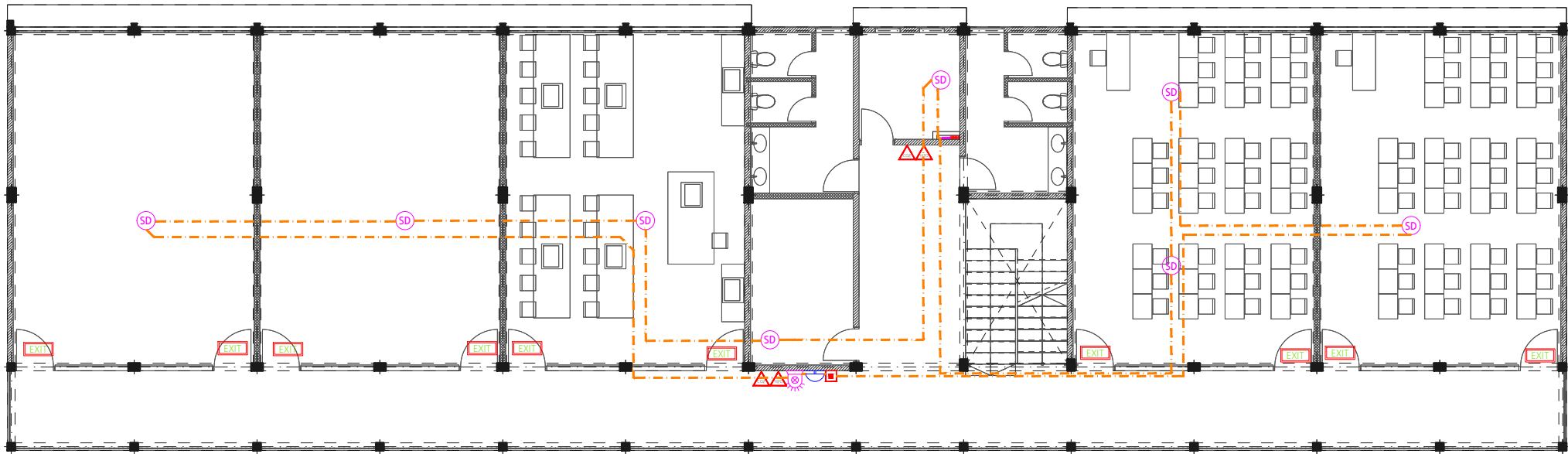
March 2021
Services By: Mohamed Rassam
Checked By:
Drawn By: Hussain Rasheed


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

Rev: ---
Page: EL -01

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



FIRST FLOOR LIGHTING LAYOUT

1:150

PROPOSED 03 STOREY

**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**

Client:
Ministry Of Education

March 2021

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













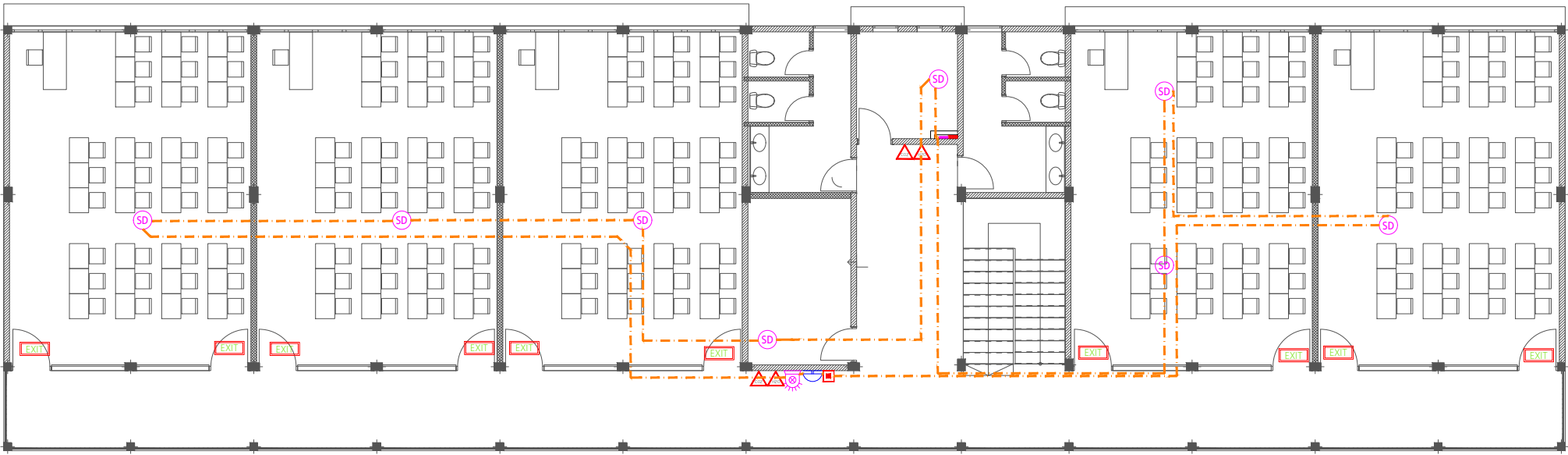
EPOCH

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

Rev:	Page:
---	EL -02
---	---
---	---

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



SECOND FLOOR LIGHTING LAYOUT
1:150

PROPOSED 03 STOREY
**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**
Client:
Ministry Of Education

March 2021
Services By: Mohamed Rassam
Checked By:
Drawn By: Hussain Rasheed


EPOCH
T: +960 333 3528, E: info@epoch.associates
W: www.epoch.associates, A: G.Rosary West,
Husnuheenaa Magu, Male' Republic of Maldives

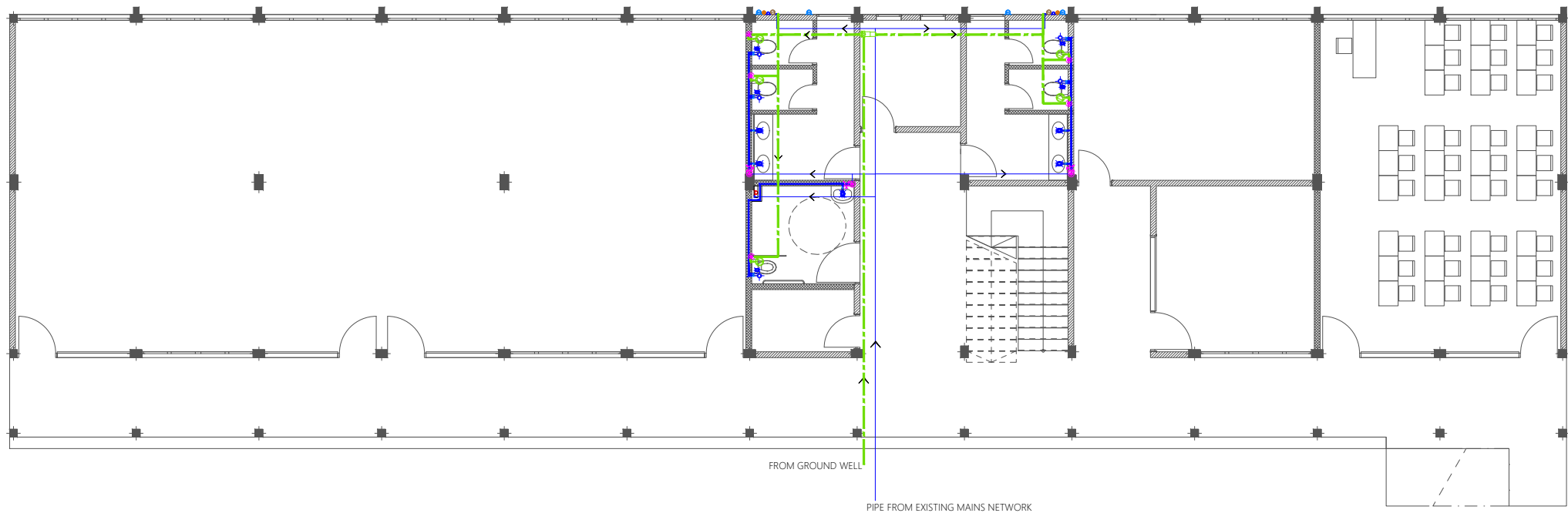
Rev:	Page:
---	EL -03
---	---
---	---

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
- Well Water Pump

Notes: -

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



GROUND FLOOR PLUMBING LAYOUT

1:150

PROPOSED 03 STOREY

**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**

Client:
Ministry Of Education

March 2021

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



EPOCH

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

Rev: ---

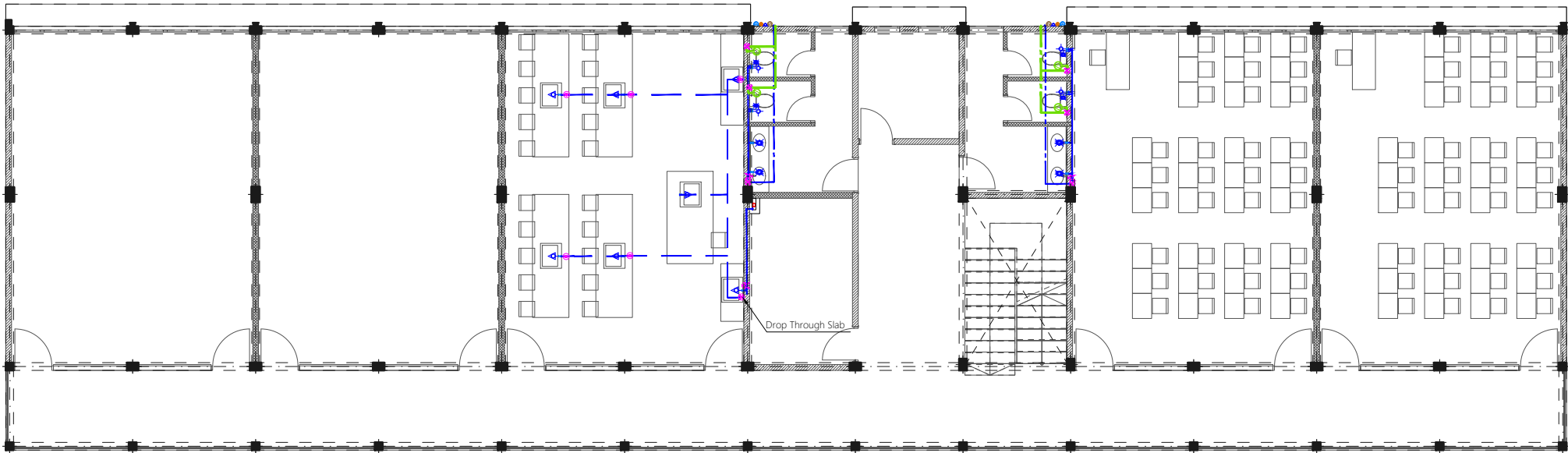
Page: PL -01

Legend

- 16Ø Cold Water Supply To Basin Faucet
- 16Ø Cold Water Supply To Bidet Shower
- 16Ø Cold Water Supply To Cistern
- Gate Valve
- Rise Through Slab
- 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

Notes: -

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



PROPOSED 03 STOREY
**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**

Client:
Ministry Of Education

March 2021

Services By: Mohamed Rassam
Checked By:
Drawn By: Hussain Rasheed



EPOCH

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

Rev: ---
Page: PL -02

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

Notes: -

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



SECOND FLOOR PLUMBING LAYOUT

1:150
















PROPOSED 03 STOREY
**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**
Client:
Ministry Of Education

March 2021
Services By: Mohamed Rassam
Checked By:
Drawn By: Hussain Rasheed

EPOCH
T: +960 333 3528, E: info@epoch.associates
W: www.epoch.associates, A: G.Rosary West,
Husnuheenaa Magu, Male' Republic of Maldives

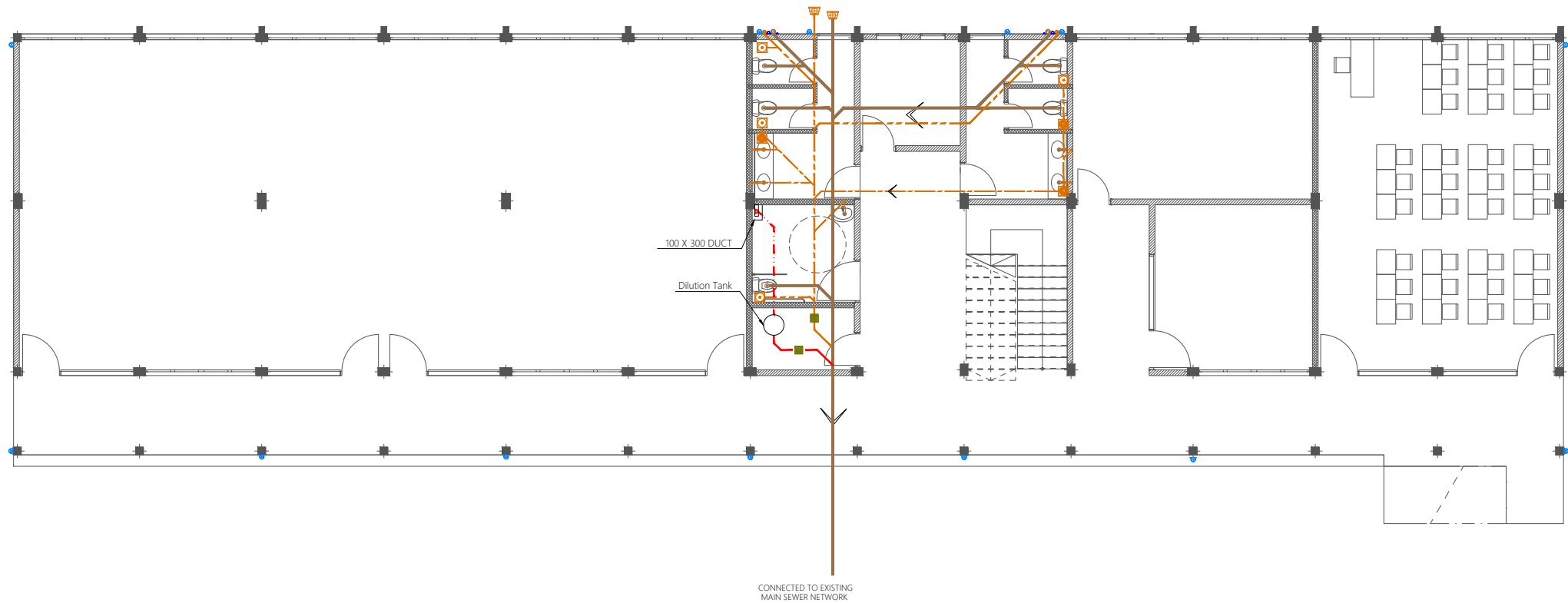
Rev: ---
Page: PL -03

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
-  Clean Out Point
-  Bottle Trap

Notes: -

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



GROUND FLOOR DRAINAGE LAYOUT
1:150

PROPOSED 03 STOREY
**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**
Client:
Ministry Of Education

March 2021
Services By: Mohamed Rassam
Checked By:
Drawn By: Hussain Rasheed


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

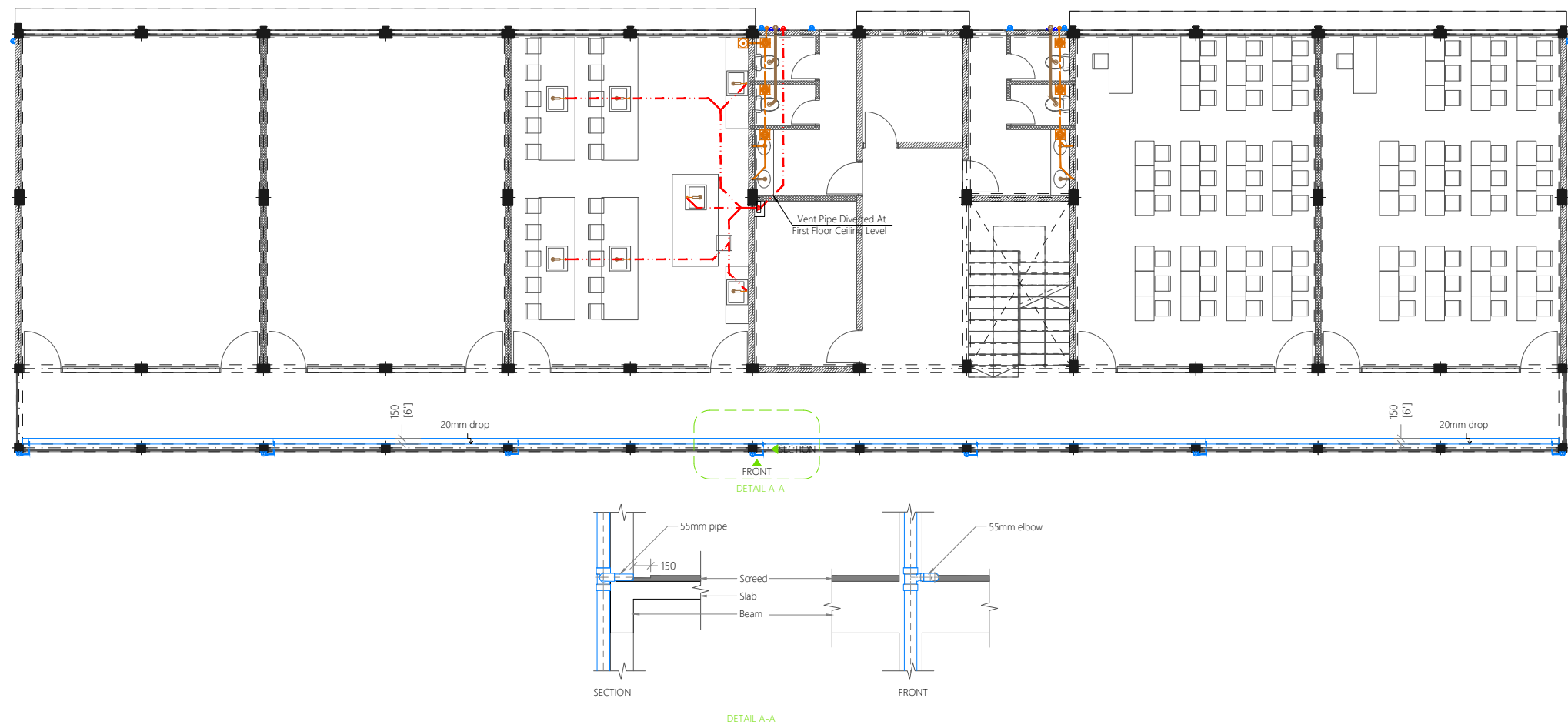
Rev:	Page:
---	DR -01

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
- Clean Out Point
- Bottle Trap

Notes: -

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



FIRST FLOOR DRAINAGE LAYOUT

1:150

PROPOSED 03 STOREY

**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**

Client:
Ministry Of Education

March 2021

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



EPOCH

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

Rev:	Page:
---	DR -02

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
- Clean Out Point
- Bottle Trap

Notes: -

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



SECOND FLOOR DRAINAGE LAYOUT
1:150

PROPOSED 03 STOREY
**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**
Client:
Ministry Of Education
















March 2021
Services By: Mohamed Rassam
Checked By:
Drawn By: Hussain Rasheed

EPOCH
T: +960 333 3528 . E: info@epoch.associates
W: www.epoch.associates, A: G.Rosary West,
Husnuheenaa Magu, Male' Republic of Maldives

Rev: ---

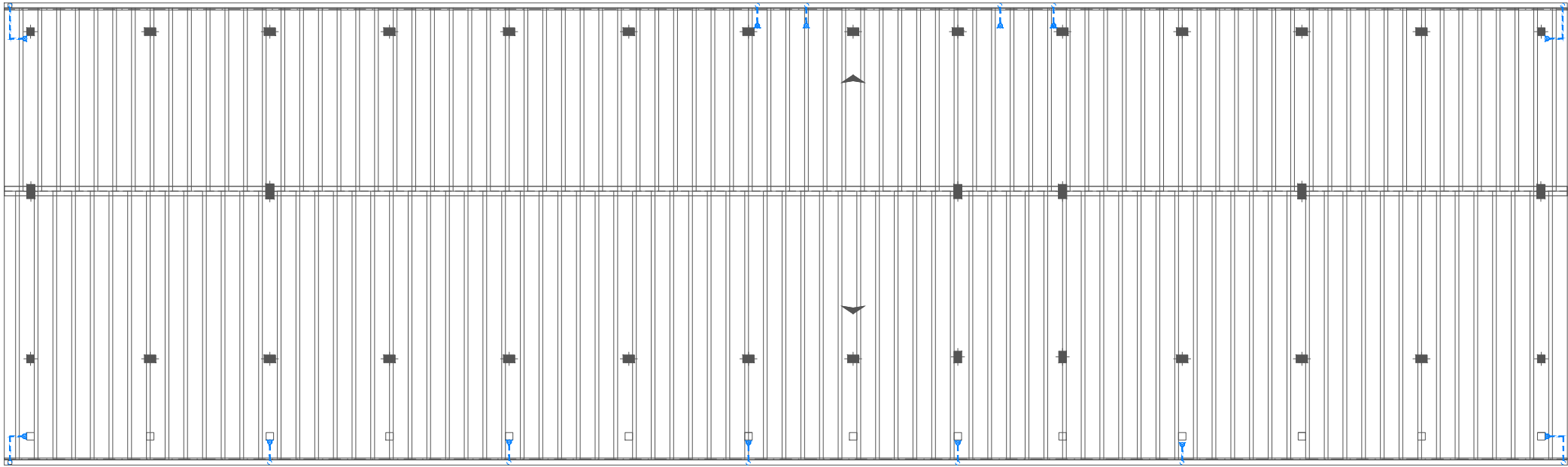
Page: DR -03

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
-  Clean Out Point
-  Bottle Trap

Notes: -

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



PROPOSED 03 STOREY

**8 Classrooms,
Library, AV Room,
Laboratory,
Computer Lab,
Health Room and
Counseling Room,
N.Manadhoo**

Client:
Ministry Of Education

March 2021

Services By: **Mohamed Rassam**

Checked By:

Drawn By: **Hussain Rasheed**


EPOCH

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

Rev:	Page:
---	DR -04

