Proposed 06 Classroom, Health Room and Counselling room at Th.Guraidhoo Atoll Mahdharusaa School

(03 Storey)

SERVICES DRAWINGS

Client: Ministry of Education

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3rd floor, H. Azum, Ameeneemagu, Male'

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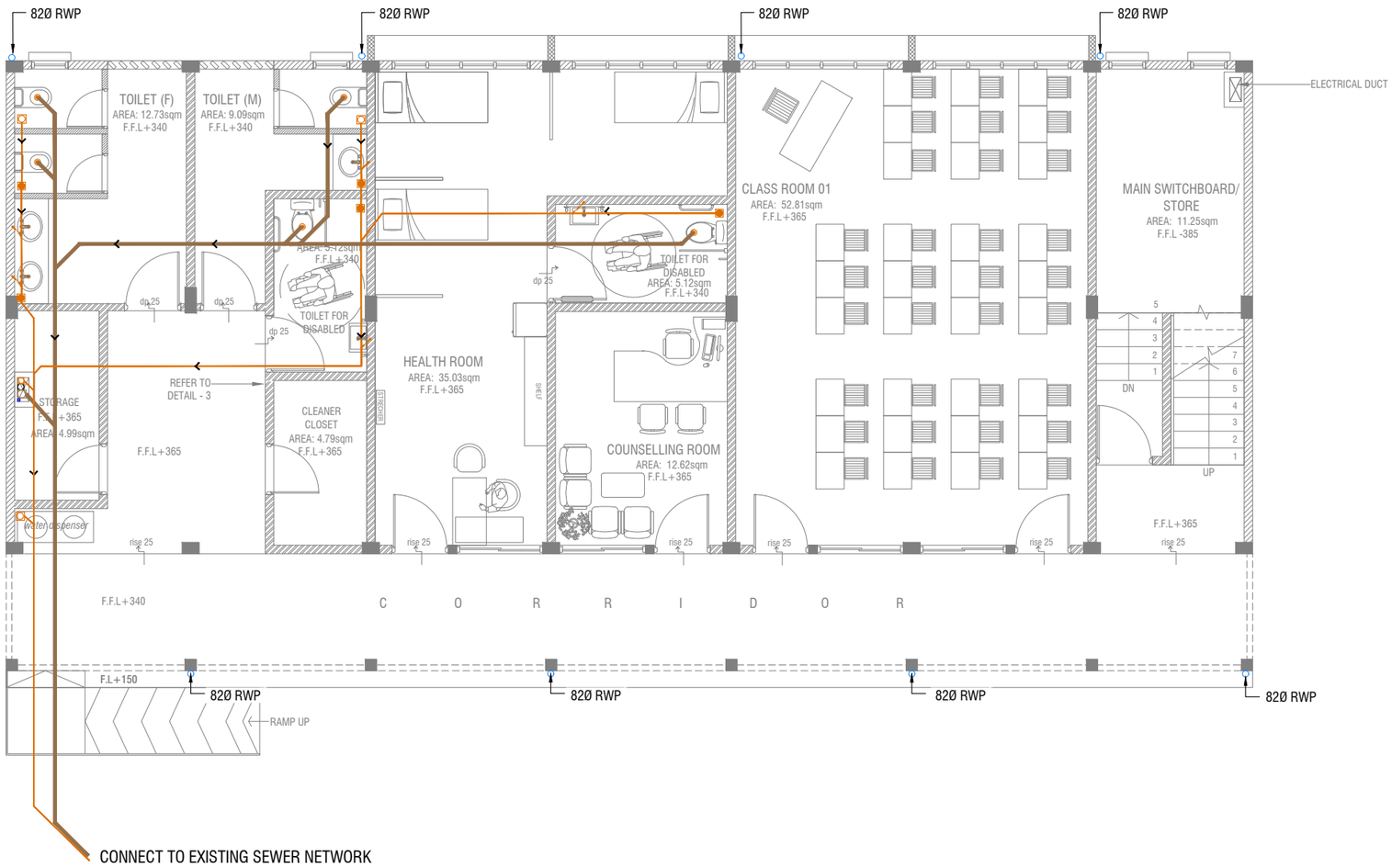

GROUND FLOOR DRAINAGE LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

FG		FLOOR GULLY
FD		FLOOR DRAIN
WM		40 Ø STUB FOR WASHING MACHINE
SP		110 Ø SOIL PIPE
SVP		110 Ø SOIL VENT PIPE
WP		82 Ø WASTE PIPE
WVP		82 Ø WASTE VENT PIPE
WP		40 Ø WASTE PIPE
RWP		82/50 Ø RAINWATER PIPE
RWO		82/50 Ø DRAIN OUTLET
CD		25 Ø DRAIN PIPE
MHVP		50 Ø MANHOLE VENT PIPE

NOTE:
- ALL RAINWATER PIPES TO BE AT GROUND LEVEL DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT
- ALL SOIL AND WASTE PIPES TO BE AT GROUND LEVEL, UNDER THE SLAB.

Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: July 2021

Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Leevan Jaleel
Services : Aishath Ahmed
Interior : -

Rev no	Date
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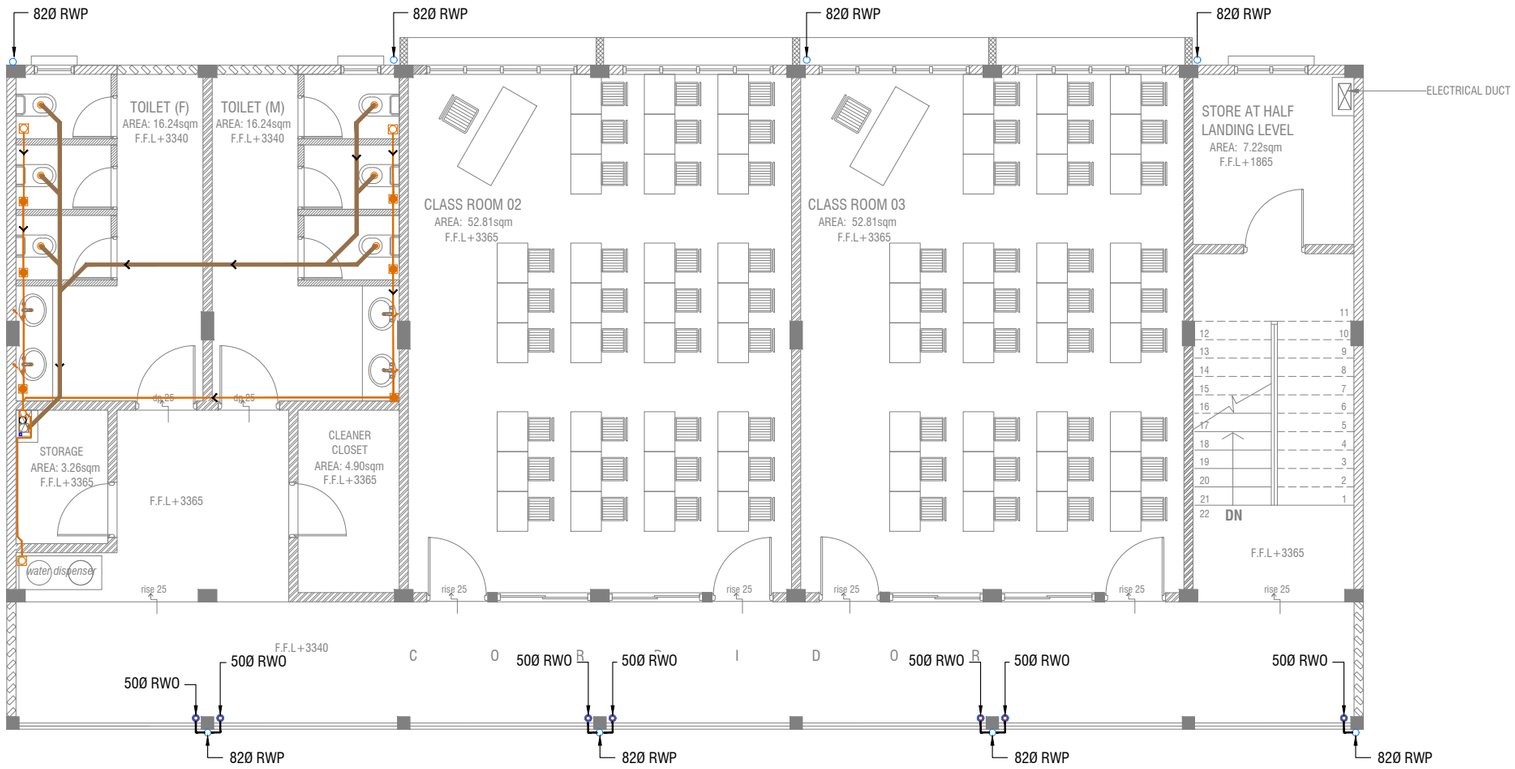
3rd floor, H. Azum, Ameeneemagu, Male'

Title: Ground Floor Drainage Layout

Page: DR 01-/04



FIRST FLOOR DRAINAGE LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

FG		FLOOR GULLY
FD		FLOOR DRAIN
WM		40 Ø STUB FOR WASHING MACHINE
SP		110 Ø SOIL PIPE
SVP		110 Ø SOIL VENT PIPE
WP		82 Ø WASTE PIPE
WVP		82 Ø WASTE VENT PIPE
WP		40 Ø WASTE PIPE
RWP		82/50 Ø RAINWATER PIPE
RWO		82/50 Ø DRAIN OUTLET
CD		25 Ø DRAIN PIPE
MHVP		50 Ø MANHOLE VENT PIPE

NOTE:

- ALL SOIL AND WASTE PIPES TO BE UNDER THE SLAB LEVEL.

SLOPE DIRECTION

Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: July 2021

Architect : Maniyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Maniyam Leevan Jaleel
Services : Aishath Ahmed
Interior : -

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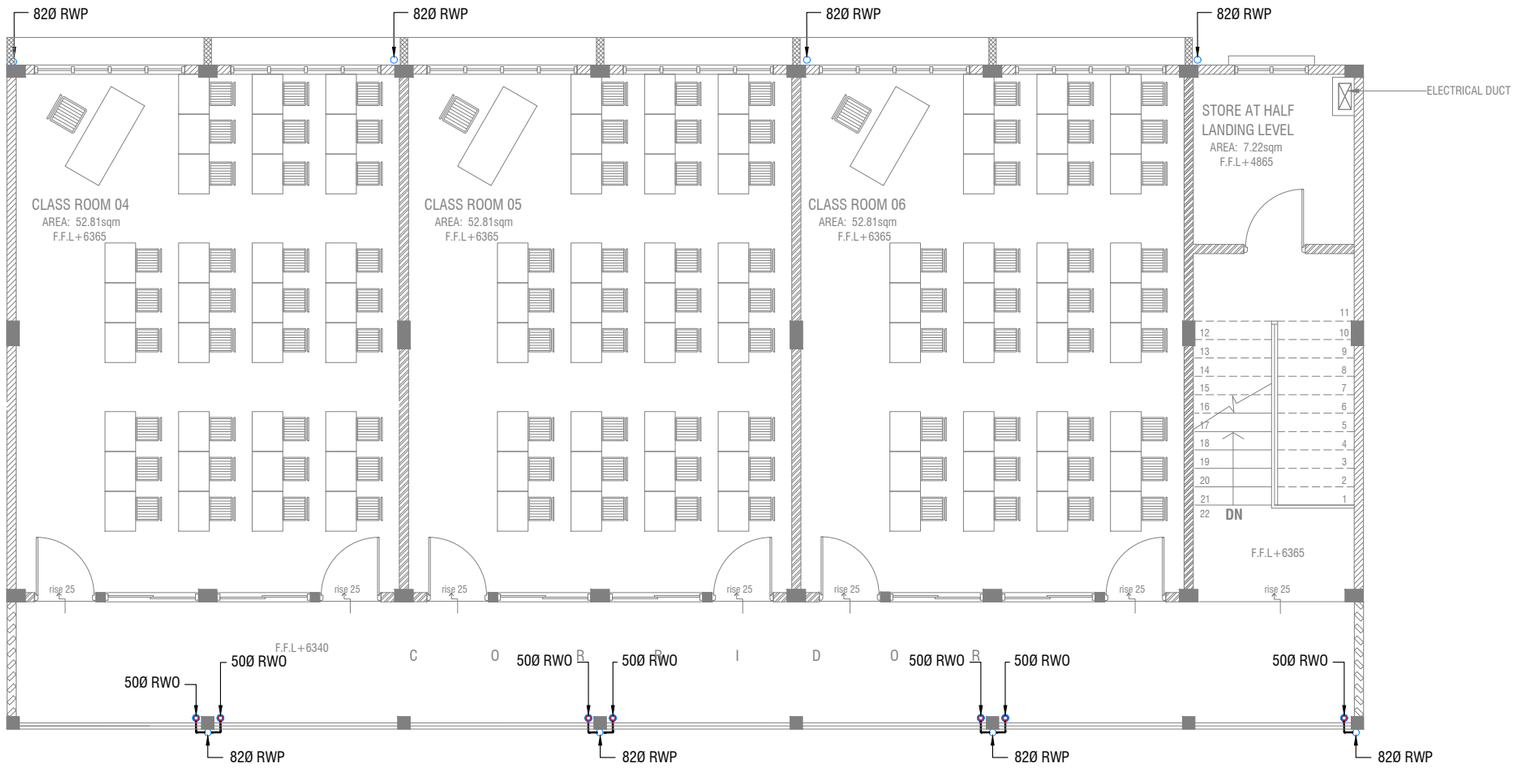
Title: First Floor Drainage Layout

Page: DR 02-/04



SECOND FLOOR DRAINAGE LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

FG		FLOOR GULLY
FD		FLOOR DRAIN
WM		40 Ø STUB FOR WASHING MACHINE
SP		110 Ø SOIL PIPE
SVP		110 Ø SOIL VENT PIPE
WP		82 Ø WASTE PIPE
WVP		82 Ø WASTE VENT PIPE
WP		40 Ø WASTE PIPE
RWP		82/50 Ø RAINWATER PIPE
RWO		82/50 Ø DRAIN OUTLET
CD		25 Ø DRAIN PIPE
MHVP		50 Ø MANHOLE VENT PIPE

NOTE:

- ALL SOIL AND WASTE PIPES TO BE UNDER THE SLAB LEVEL.

SLOPE DIRECTION

Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: July 2021

Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Leevan Jaleel
Services : Aishath Ahmed
Interior : -

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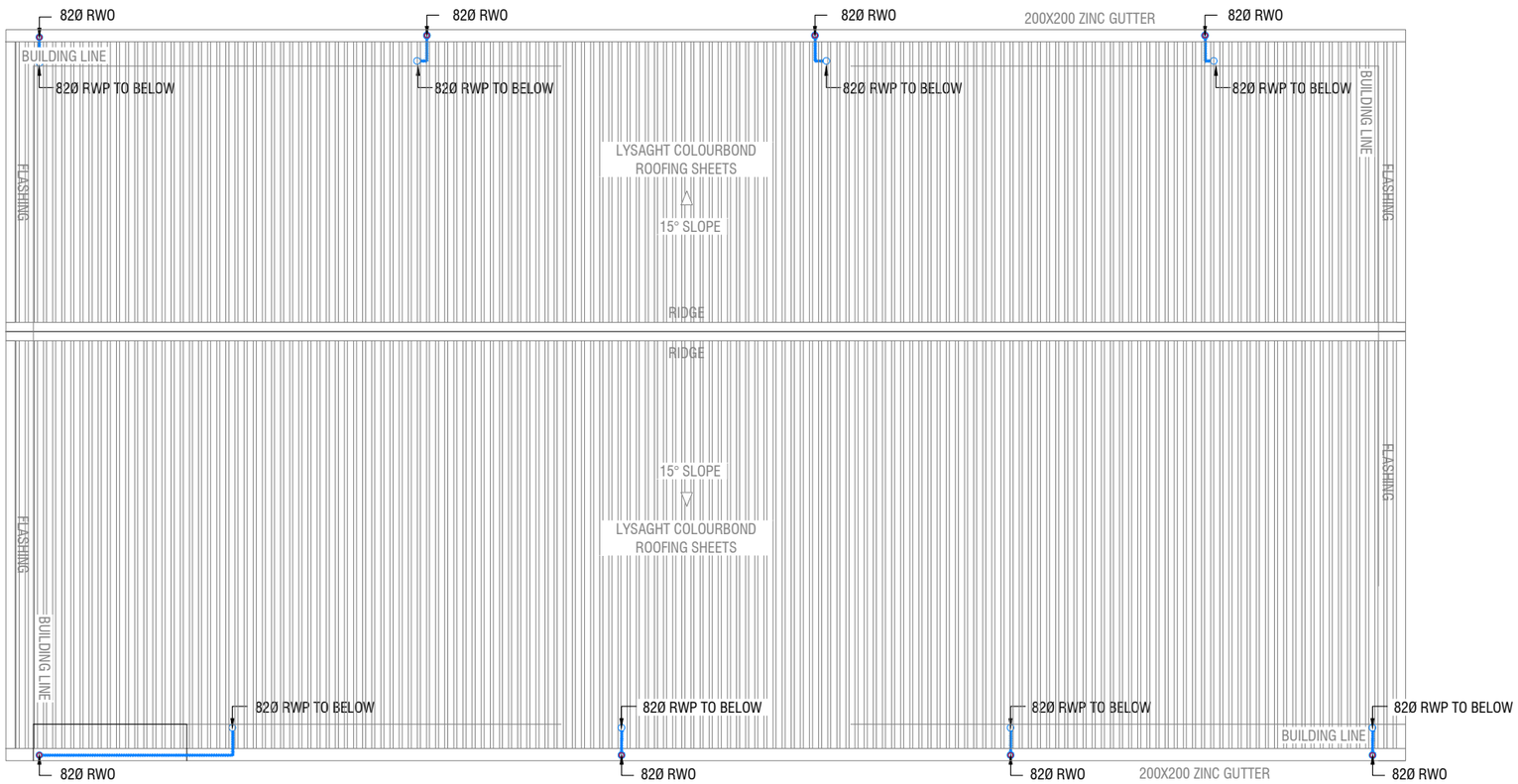
Title: Second Floor Drainage Layout

Page: DR 03-/04



ROOF DRAINAGE LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

FG		FLOOR GULLY
FD		FLOOR DRAIN
WM		40 Ø STUB FOR WASHING MACHINE
SP		110 Ø SOIL PIPE
SVP		110 Ø SOIL VENT PIPE
WP		82 Ø WASTE PIPE
WVP		82 Ø WASTE VENT PIPE
WP		40 Ø WASTE PIPE
RWP		82/50 Ø RAINWATER PIPE
RWO		82/50 Ø DRAIN OUTLET
CD		25 Ø DRAIN PIPE
MHVP		50 Ø MANHOLE VENT PIPE

Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: July 2021

Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Leevan Jaleel
Services : Aishath Ahmed
Interior : -

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Title: Roof Drainage Layout

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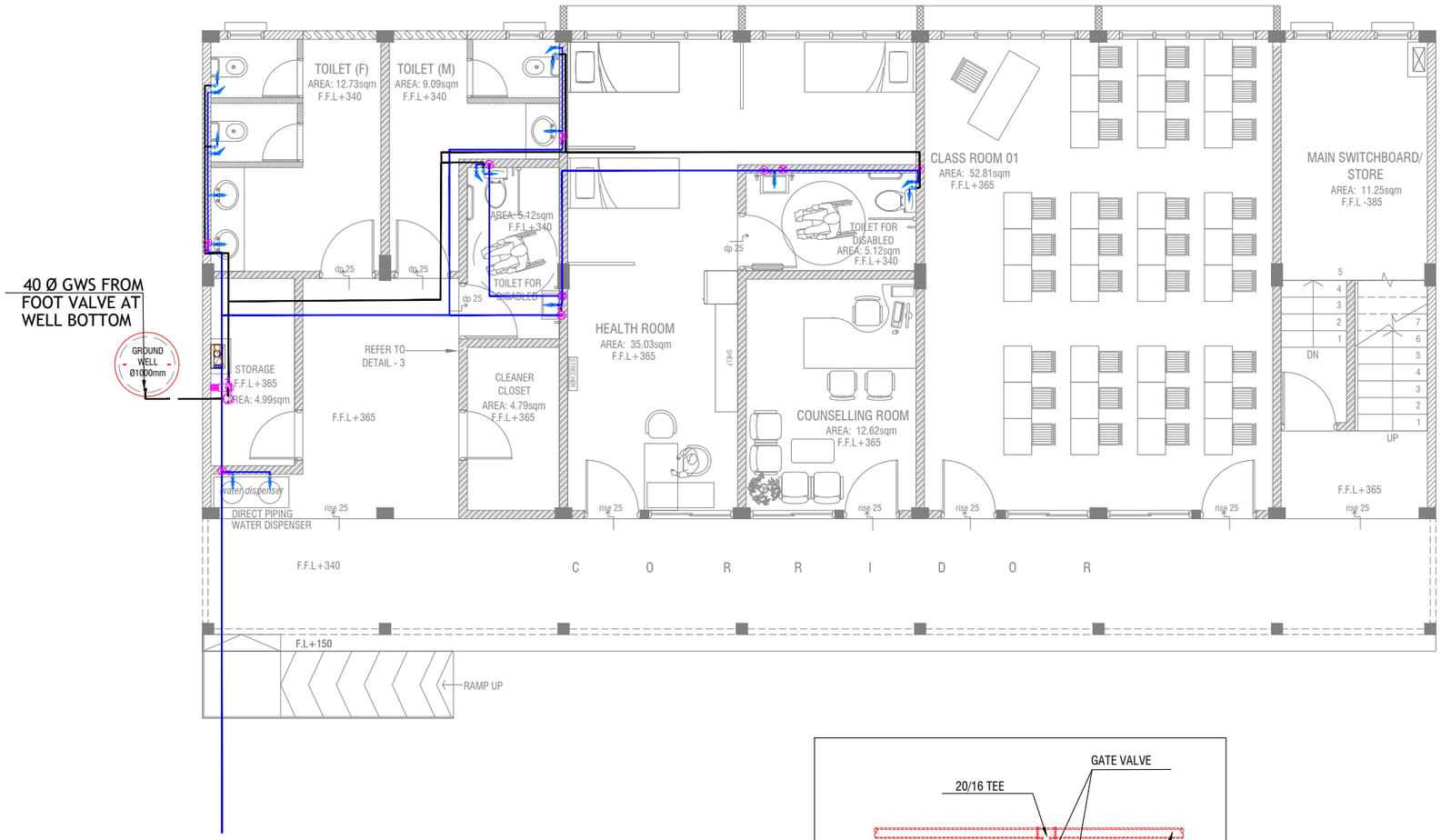

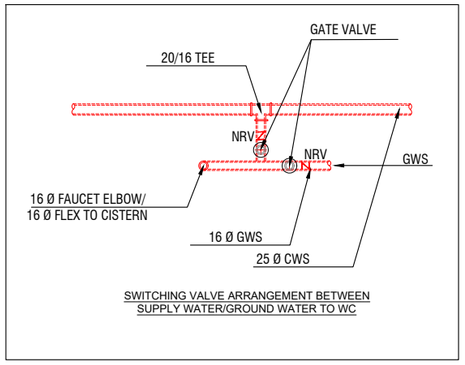

SWITCHING VALVE ARRANGEMENT BETWEEN SUPPLY WATER/GROUND WATER TO WC

GROUND FLOOR PLUMBING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

- 16 Ø COLD WATER SUPPLY TO CISTERN
- 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
- 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
- GV GATE VALVE
- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
- 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

NOTE:
- THE WELL SHALL BE RELOCATED ACCORDING TO THE SALINITY OF THE GROUND WATER.
- BASED ON WELL LOCATION PUMP CAPACITY TO BE DECIDED

Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: July 2021

Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Leevan Jaleel
Services : Aishath Ahmed
Interior : -

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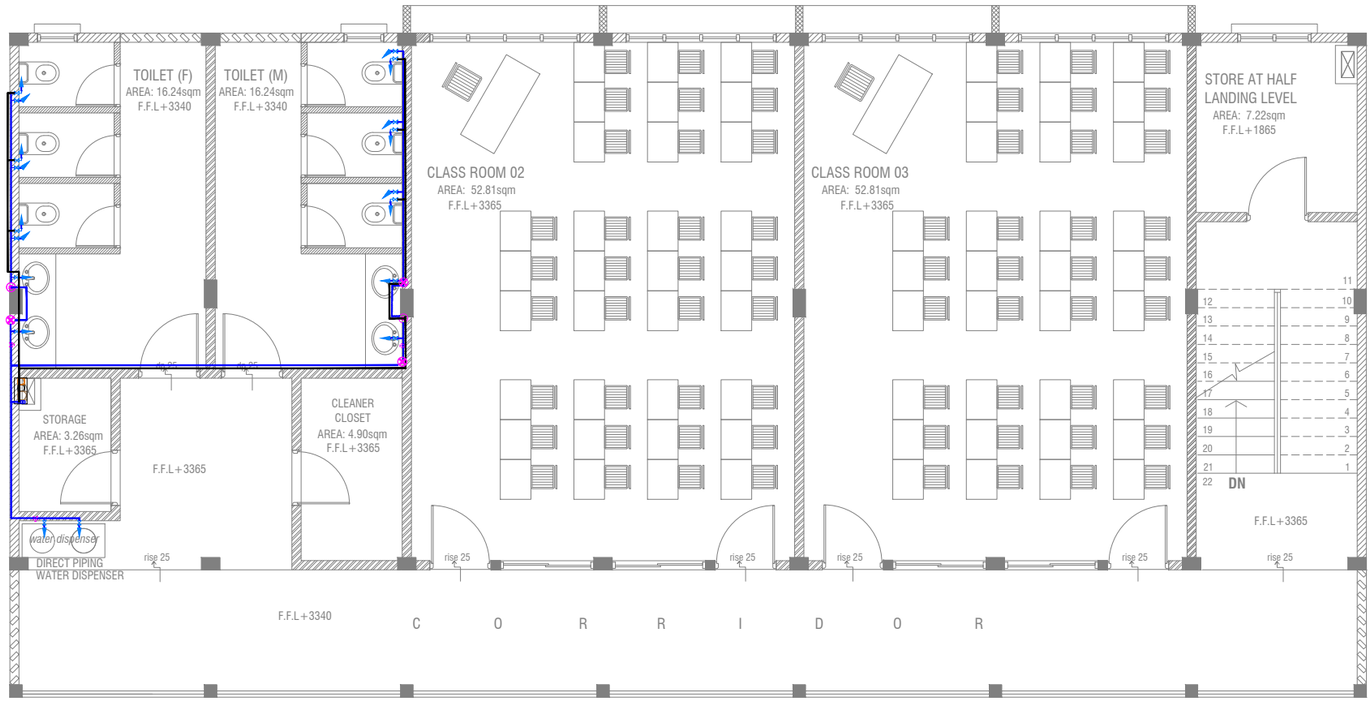
Title: Ground Floor Plumbing Layout

Page: PL 01-/02



FIRST FLOOR PLUMBING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

- 16 Ø COLD WATER SUPPLY TO CISTERN
- 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
- 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
- GV GATE VALVE
- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
- 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Rev no	Date
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Project Number: RI/2020/006
Date: July-2021

Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Leevan Jaleel
Services : Aishath Ahmed
Interior : -

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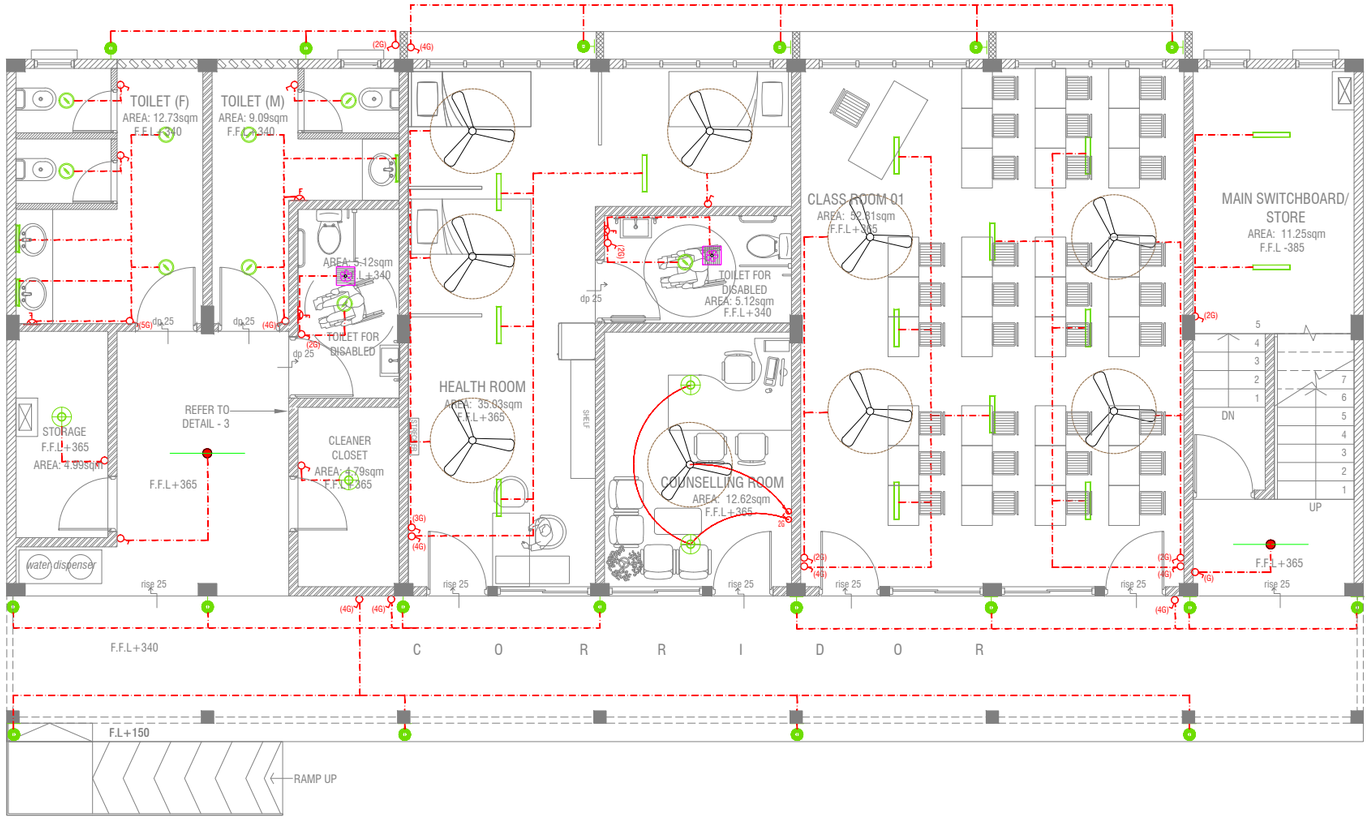
Title: First Floor Plumbing Layout

Page: PL 02-/02



GROUND FLOOR LIGHTING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

WPD	40W (IP 65) OUT DOOR WALL LIGHT
ML	MIRROR LIGHT (7W LED LIGHT)
H2	LED RECESSED DOWN LIGHT 12W
CL	LED CEILING LIGHT 18W
WP	LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
C2	LED CEILING DOWN LIGHT (18W)
	LIGHT SWITCH
	SWITCHING LINE
	FLEX OUTLET
	EXHAUST FAN (CEILING MOUNTED)
CL2	LED TUBE LIGHT WITH OPAL CASING
	CEILING FAN (52" - 54")

NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
-ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: July-2021

Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Leevan Jaleel
Services : Aishath Ahmed
Interior : -

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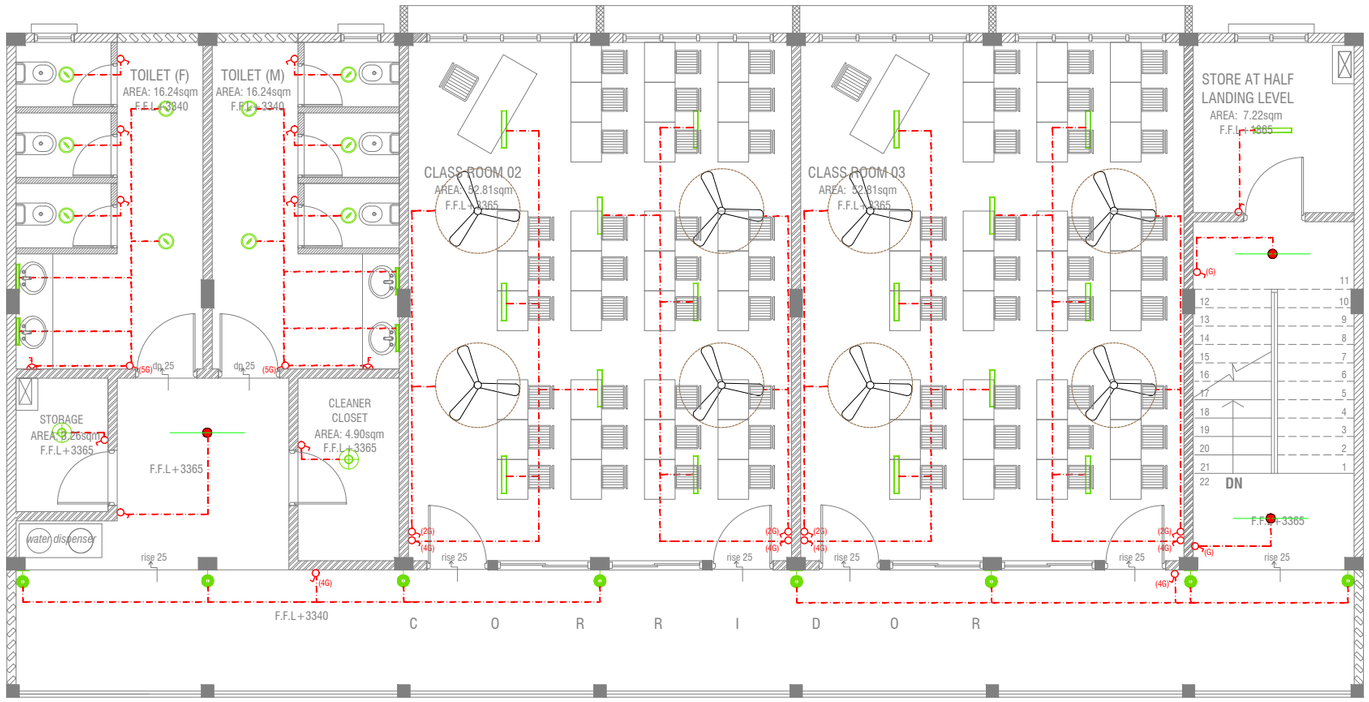
3rd floor, H. Azum, Ameeneemagu, Male'

Title: Ground Floor Lighting Layout

Page: EL 01-03



FIRST FLOOR LIGHTING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

WPD	40W (IP 65) OUT DOOR WALL LIGHT
ML	MIRROR LIGHT (7W LED LIGHT)
H2	LED RECESSED DOWN LIGHT 12W
CL	LED CEILING LIGHT 18W
WP	LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
C2	LED CEILING DOWN LIGHT (18W)
	LIGHT SWITCH
	SWITCHING LINE
	FLEX OUTLET
CL2	LED TUBE LIGHT WITH OPAL CASING
	CEILING FAN (52" - 54")

NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
-ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: July-2021

Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Leevan Jaleel
Services : Aishath Ahmed
Interior : -

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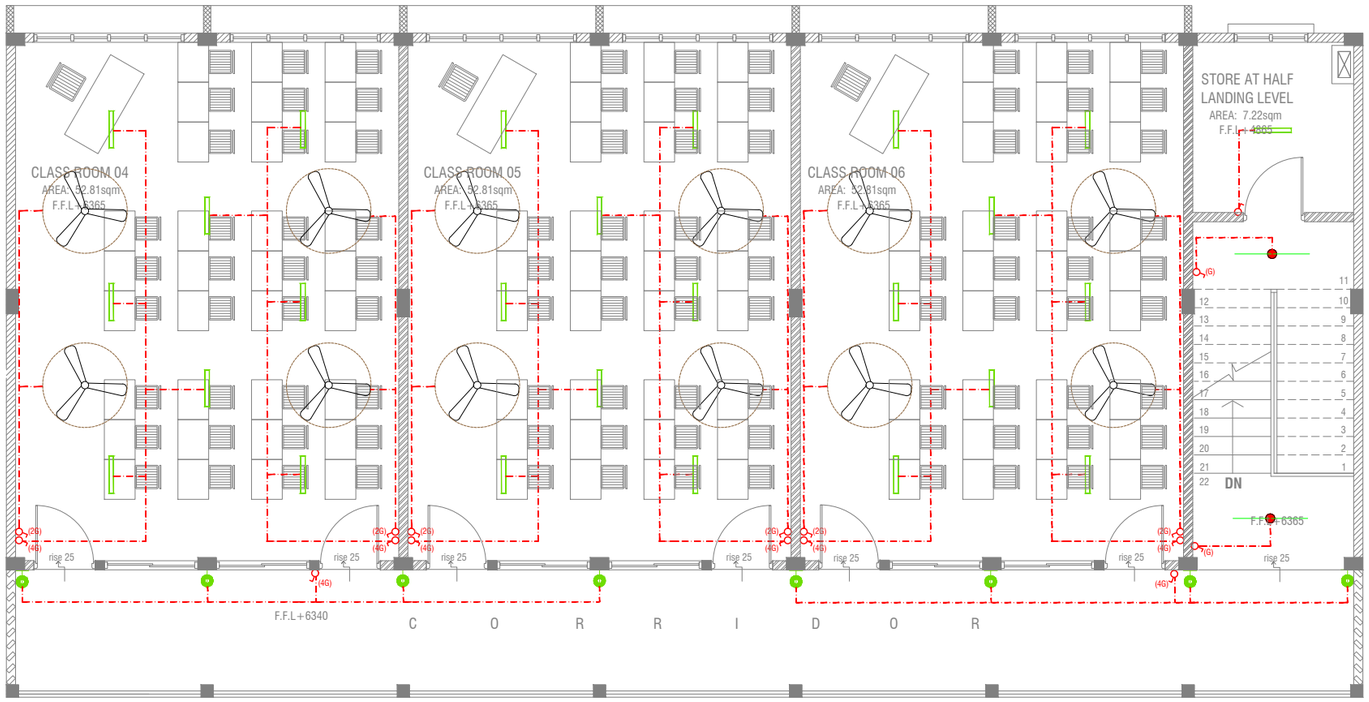
3rd floor, H. Azum, Ameeneemagu, Male'

Title: First Floor Lighting Layout

Page: EL 02-03



SECOND FLOOR LIGHTING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

- WPD — 40W (IP 65) OUT DOOR WALL LIGHT
- ML — MIRROR LIGHT (7W LED LIGHT)
- H2 — LED RECESSED DOWN LIGHT 12W
- CL — LED CEILING LIGHT 18W
- WP — LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 — LED CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE
- FLEX OUTLET
- CL2 — LED TUBE LIGHT WITH OPAL CASING
- CEILING FAN (52" - 54")

NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
-ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: July 2021

Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Leevan Jaleel
Services : Aishath Ahmed
Interior : -

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Title: Second Floor Lighting Layout

Page: EL 03-03

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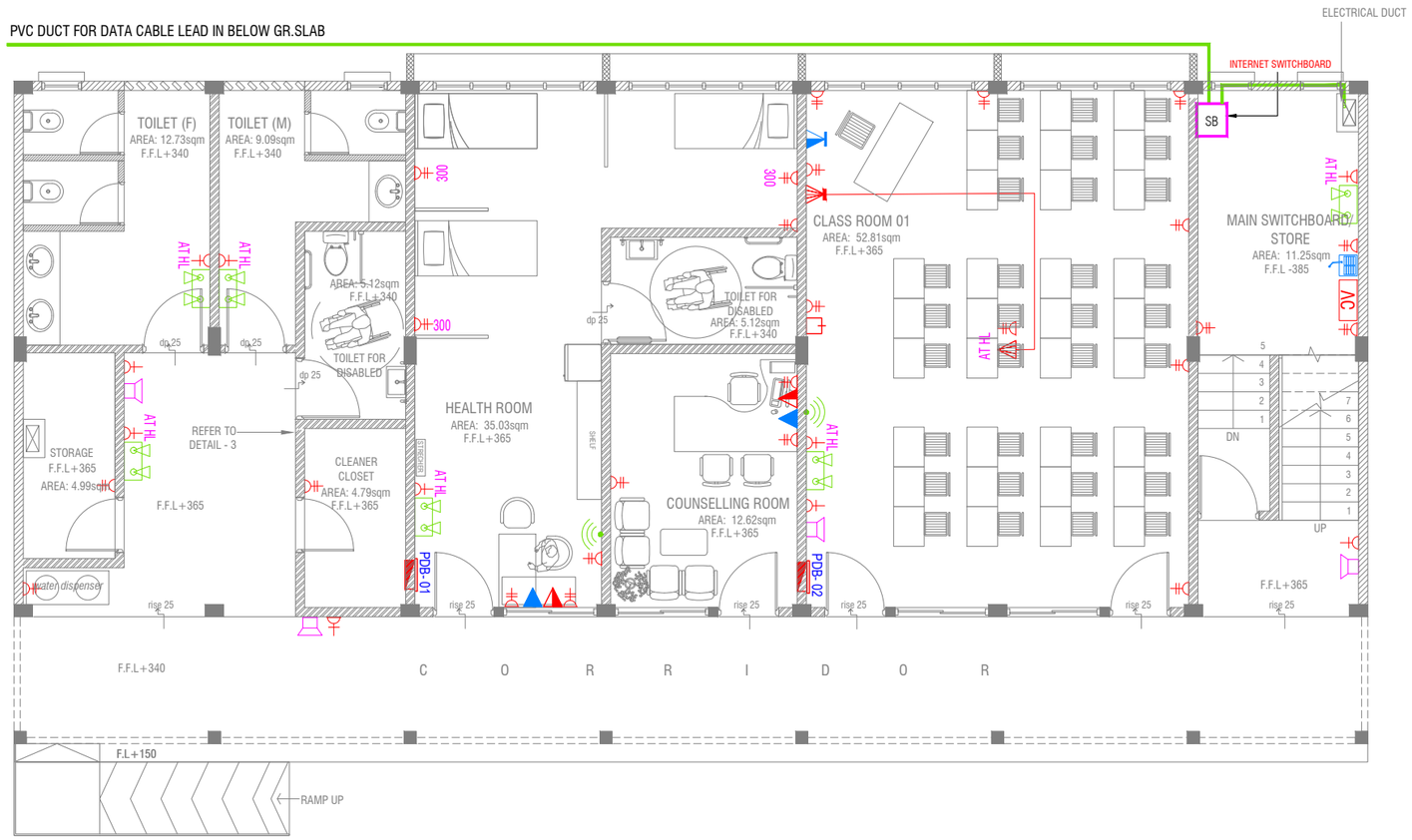

GROUND FLOOR POWER LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
5. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

LEGEND

- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER OUTLET
- 13A TWIN SOCKET OUTLET
- TWO GANG TV/SAT SOCKET OUTLET
- HDMI,VGA & RAC AV SOCKET
- DISTRIBUTION BOX
- SPEAKERS
- HDMI,VGA & RAC AV TWIN SOCKET
- TWIN COMPUTER NETWORK OUTLET
- DATA POINT
- TWO GANG / TV SOCKET
- COMPUTER NETWORK OUTLET
- PAGING MIC
- VC — VOLUME CONTROLLER
- EM — EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

TO SUPPLY AND INSTALL PANEL BOARD WITH KWh METER. WIRING AND CONNECTION TO MAIN PANEL BOARD FROM MAIN ELECTRICAL NETWORK TO BE DECIDED ON SITE (LOCATION TO BE AT THE MAIN SWITCH BOARD STORE)

Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: July 2021

Rev no	Date
-	-
-	-

Architect : Mariyam Iradha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Leevan Jaleel
Services : Aishath Ahmed

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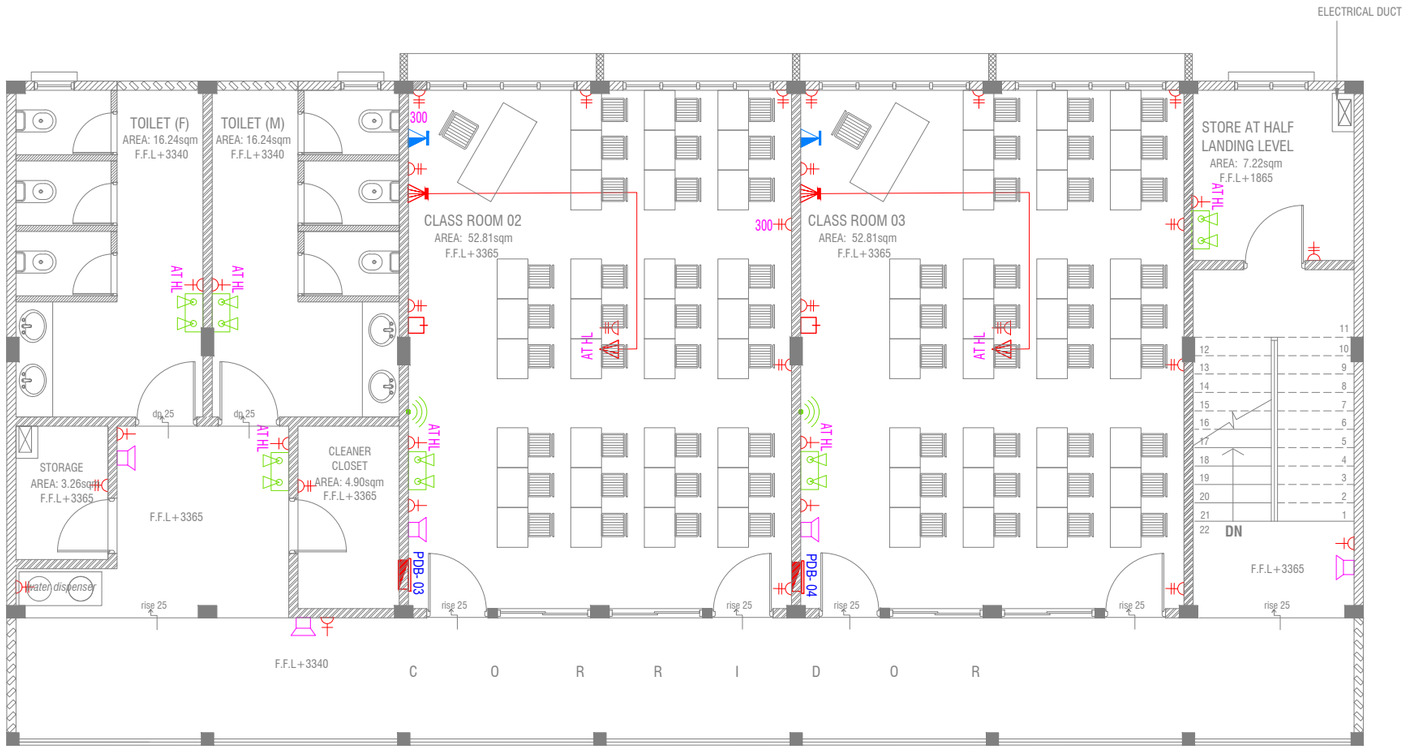
3rd floor, H. Azum, Ameeneemagu,

Title: Ground Floor Power Layout

Page: EP 01-03



FIRST FLOOR POWER LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
5. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

LEGEND

- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER OUTLET
- 13A TWIN SOCKET OUTLET
- TWO GANG TV/SAT SOCKET OUTLET
- HDMI,VGA & RAC AV SOCKET
- DISTRIBUTION BOX
- SPEAKERS
- HDMI,VGA & RAC AV TWIN SOCKET
- TWIN COMPUTER NETWORK OUTLET
- DATA POINT
- TWO GANG / TV SOCKET
- PAGING MIC
- VC — VOLUME CONTROLLER
- EM — EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

TO SUPPLY AND INSTALL PANEL BOARD WITH KWh METER. WIRING AND CONNECTION TO MAIN PANEL BOARD FROM MAIN ELECTRICAL NETWORK TO BE DECIDED ON SITE

Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: July-2021

Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Leevan Jaleel
Services : Aishath Ahmed
Interior : -

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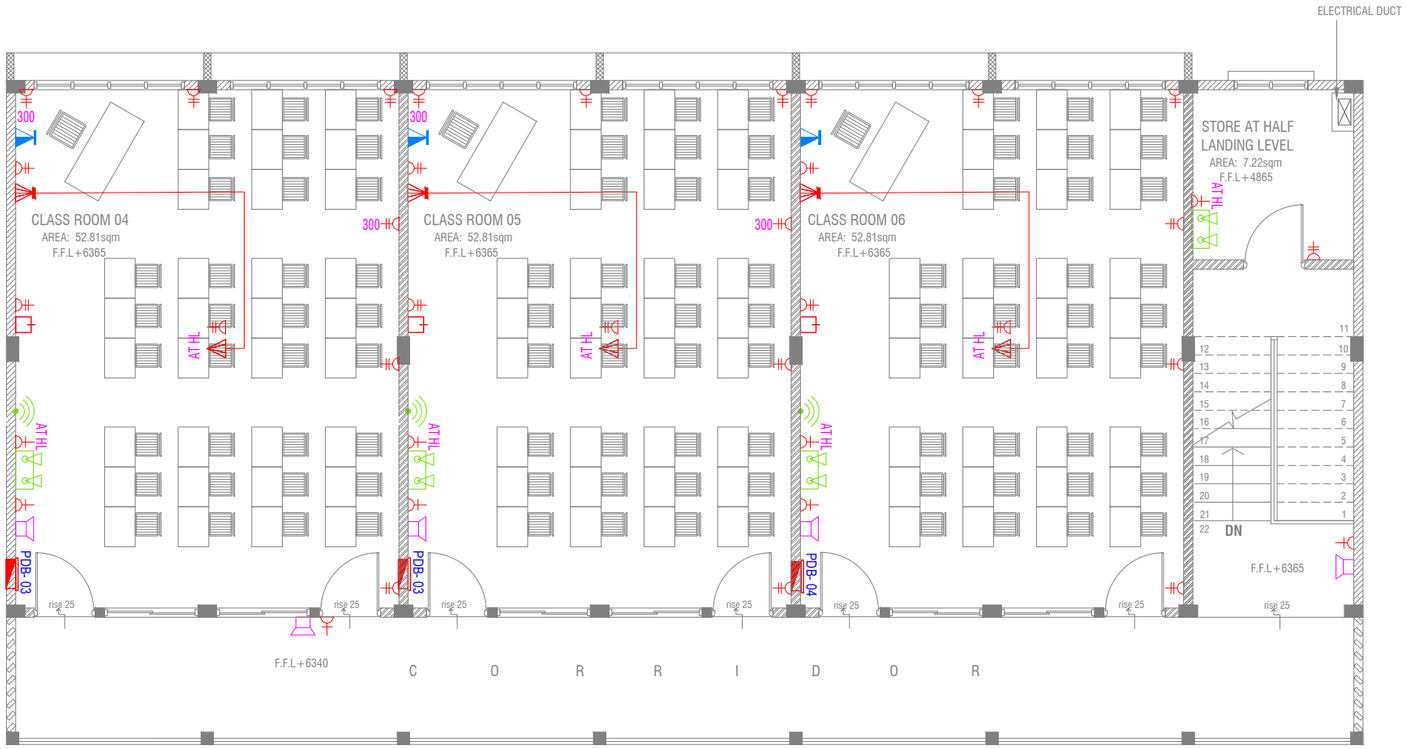
3rd floor, H. Azum, Ameeneemagu, Male'

Title: First Floor Power Layout

Page: EP 02-03



SECOND FLOOR POWER LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
5. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

LEGEND

- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER OUTLET
- 13A TWIN SOCKET OUTLET
- TWO GANG TV/SAT SOCKET OUTLET
- HDMI,VGA & RAC AV SOCKET
- DISTRIBUTION BOX
- SPEAKERS
- HDMI,VGA & RAC AV TWIN SOCKET
- TWIN COMPUTER NETWORK OUTLET
- DATA POINT
- TWO GANG / TV SOCKET
- PAGING MIC
- VC — VOLUME CONTROLLER
- EM — EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

TO SUPPLY AND INSTALL PANEL BOARD WITH KWh METER. WIRING AND CONNECTION TO MAIN PANEL BOARD FROM MAIN ELECTRICAL NETWORK TO BE DECIDED ON SITE

Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Rev no	Date
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Project Number: RI/2020/006
Date: July 2021

Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Leevan Jaleel
Services : Aishath Ahmed
Interior : -

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3rd floor, H. Azum, Ameeneemagu, Male'

Title: Second Floor Power Layout

Page: EP 03-03

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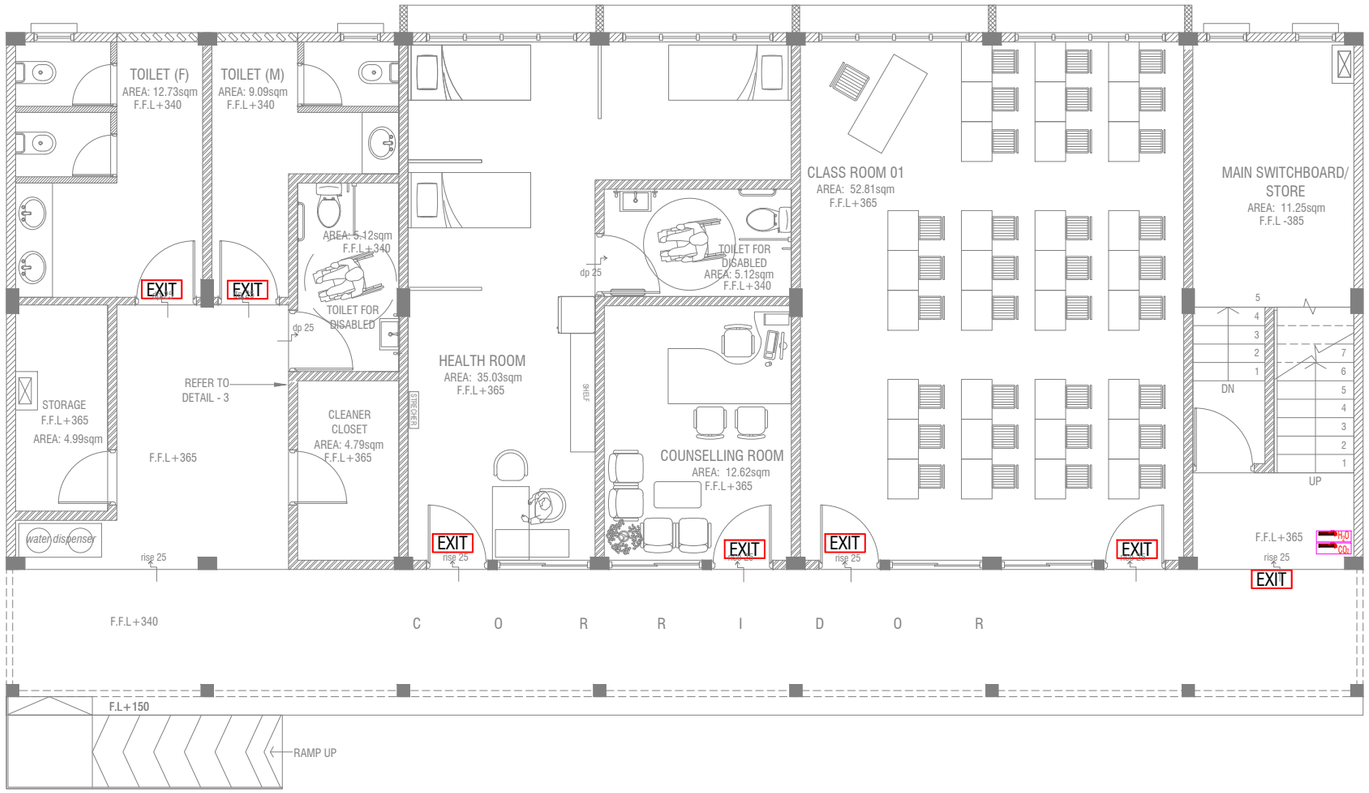

GROUND FLOOR FDP LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

EXIT — EXIT SIGN

CO_2 EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOUSURE(TYP.)

H_2O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

ALL FIRE CABLES AND CONDUITS SHOULD BE FIRE RETARDANT LOW SMOKE (FRLS) TYPE.

ALL FIRE RATED DOOR SHOULD COME WITH PACKING (EXPANSION SEAL TRAP)

1.ALL PIPES SHOULD BE GALVANIZED,SCHEDULE 40.
2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
3. ALL SUPPORT/BRACKET SHALL BE HOT DIPPED GALVANIZED TO 100MM 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM ,SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.
-ALTERNATIVELY IF THE INSTALLATION OF CEILING IS CARRIED OUT EQUAL TO BEAM BOTTOM OR IF THE CEILING IS NOT INSTALLED , SMOKE DETECTORS ARE TO BE PLACED IN BETWEEN EACH BEAM

Th.Guraidhoo School (03 Storey)
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Project Number: RI/2020/006
Date: July 2021

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Services : Aishath Ahmed
Interior : -

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Title: Ground Floor FDP Layout

Page: FDP 01-03

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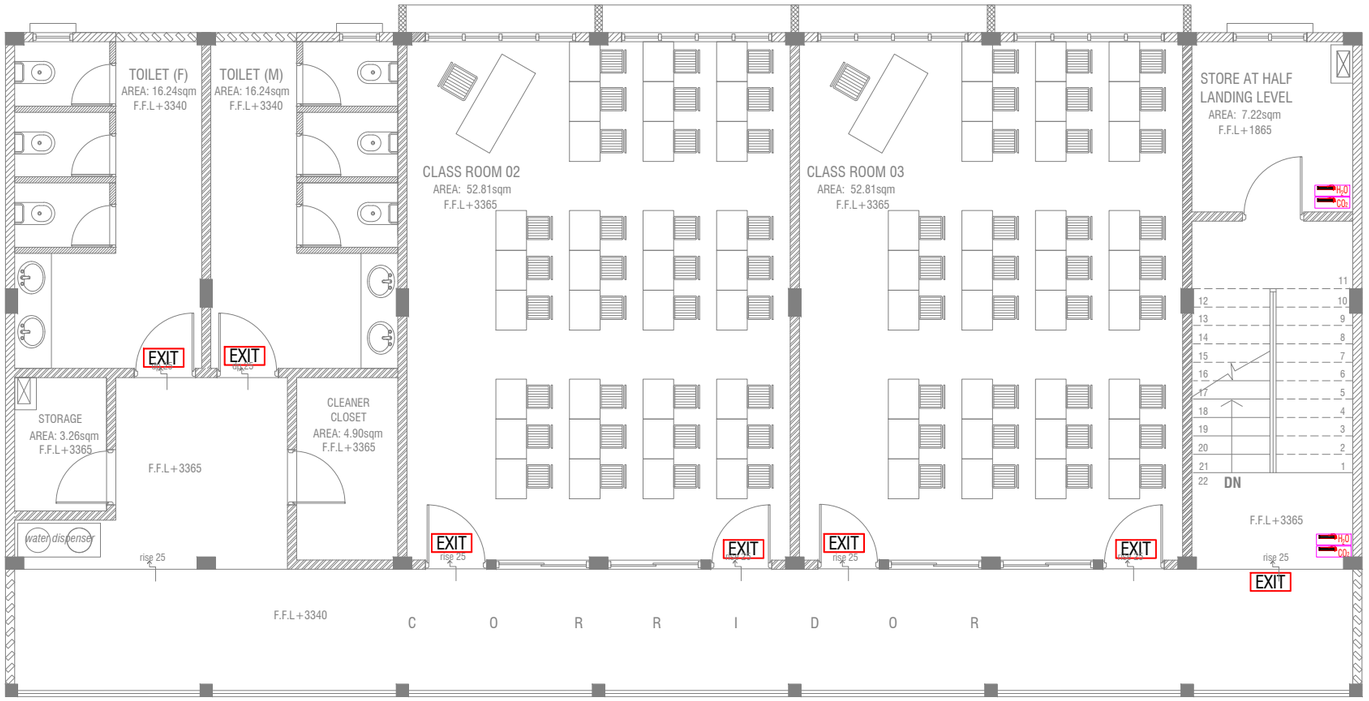

FIRST FLOOR FDP LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

EXIT — EXIT SIGN

CO_2 EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOUSURE(TYP.)

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Services : Aishath Ahmed
Interior : -

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Title: First Floor FDP Layout

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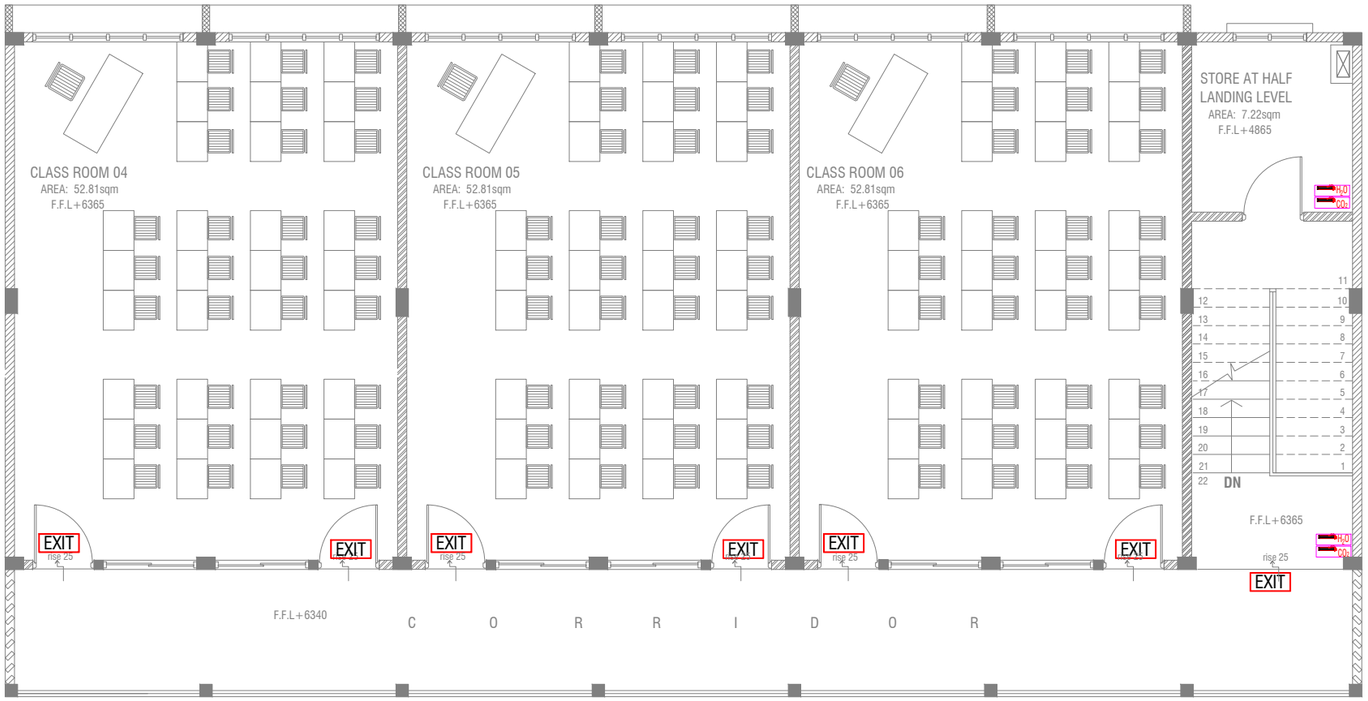

SECOND FLOOR FDP LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

EXIT — EXIT SIGN

CO_2 EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOUSURE(TYP.)

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Th.Guraidhoo School (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: July 2021

Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
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Title: Second Floor FDP Layout

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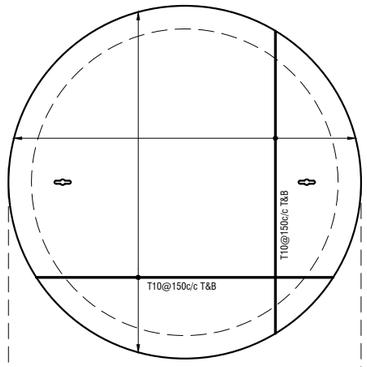
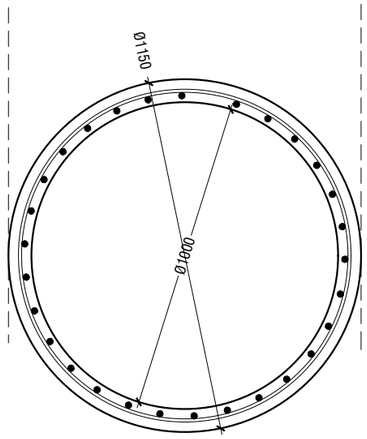
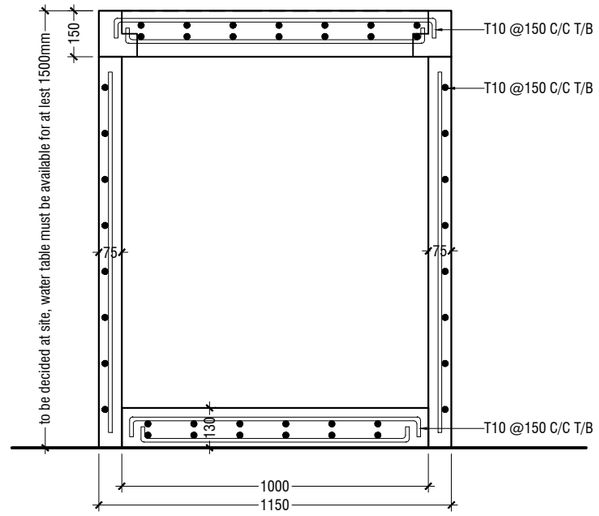
WATER TANK WALL TOP & BOTTOM SLAB

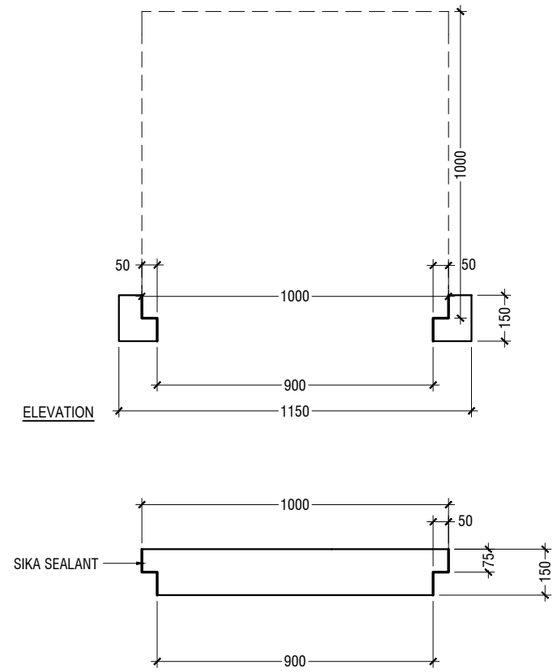


WATER TANK WALL REINF.





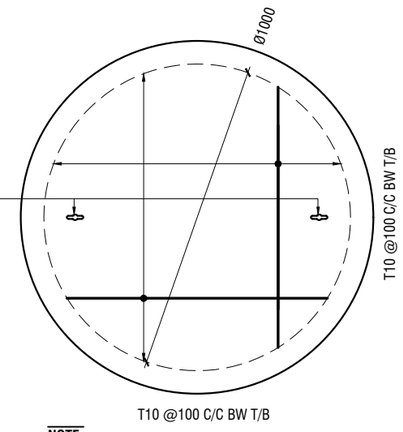
WATER TANK SECTION



ELEVATION

SECTION

KEYHOLES (THE KEYHOLES SHALL BE COVERED FROM A RUBBER SEALER ON TOP OF IT)



PLAN

NOTE:

- ALL CONCRETE WORKS BELOW GROUND AND AT TERRACE LEVEL TO BE TREATED WITH 'SIKA' WATERPROOFING CHEMICAL OR EQUIVALENT
- PROVIDE PROVISION FOR WATER ENTRANCE THROUGH THE BASE

WATER TANK DETAILS

SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1

WATER TANK LID DETAILS

SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1

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Title: Ground Water Well Detail

Page: Detail 01-01

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