

Proposed 04 Classroom at
Adh.Fenfushee School
(02 Storey)

SERVICES DRAWINGS
Client: Ministry of Education



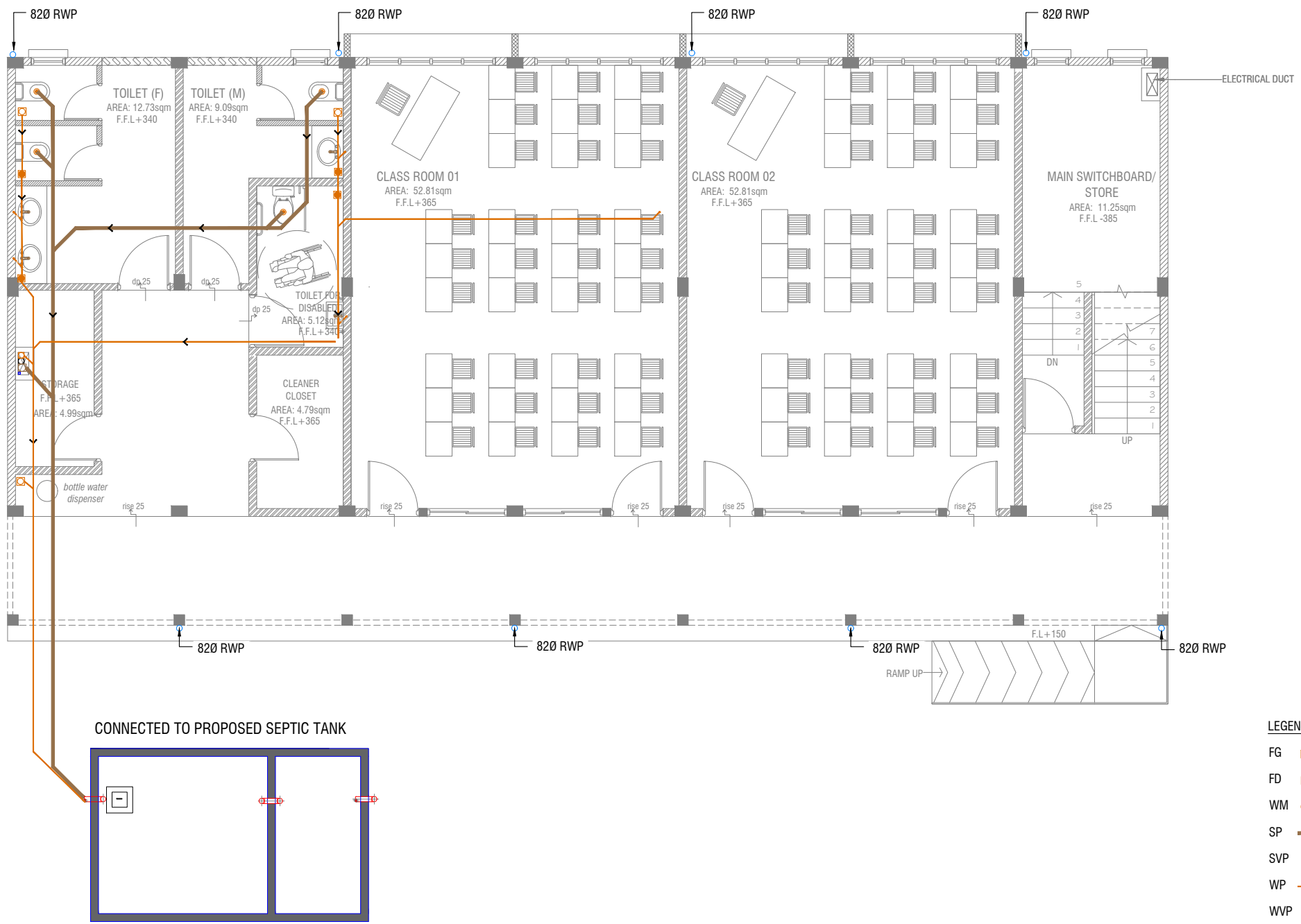
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3rd floor, H. Azum, Amereemaguu, Male'

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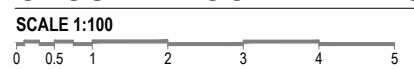
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DR - 03 / 03	ROOF DRAINAGE LAYOUT	---	---	---
PL - 01 / 02	GROUND FLOOR PLUMBING LAYOUT	---	---	---
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- LEGEND**
- FG FLOOR GULLY
 - FD FLOOR DRAIN
 - WM 40 Ø STUB FOR WASHING MACHINE
 - SP 110 Ø SOIL 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.

GROUND FLOOR DRAINAGE LAYOUT



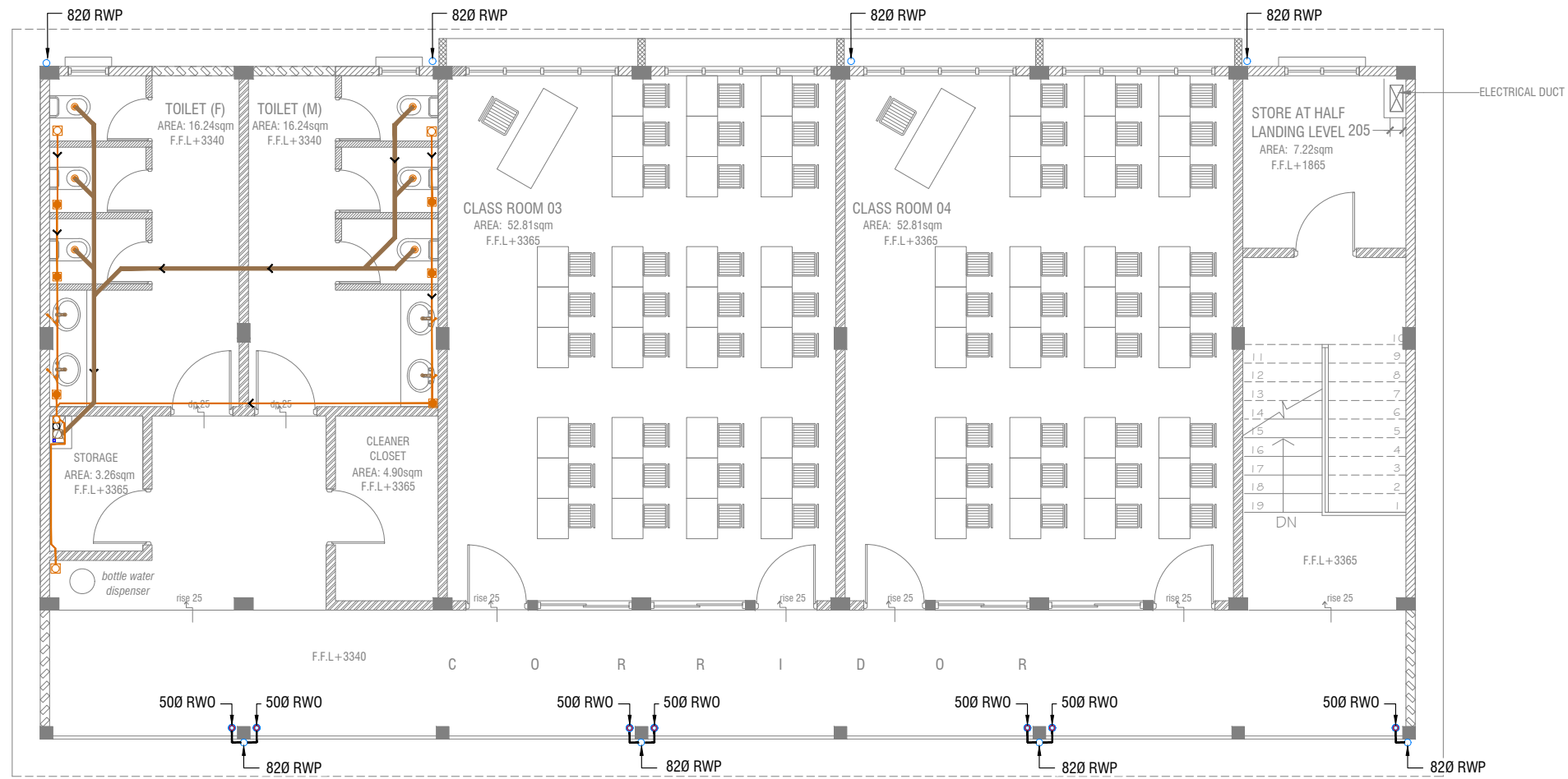
Adh.Fenfushee School 4 Classroom Block (2 story)
 Client: Ministry of Education

Project Number: RI/2020/006
 Date: March 2021
 Architect: Mariyam Trasha Shareef
 Engineer: Mohamed Muhtalib Waleed
 Drawn by: Mariyam Leevan Jaleel
 Services: Aishath Ahmed

Rev no	Date



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FIRST FLOOR DRAINAGE LAYOUT

SCALE 1:100



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.

Adh.Fenfushee School 4 Classroom Block (2 story)
Client: Ministry of Education

Project Number: RI/2020/006
Date: March 2021
Architect: Mariyam Trisha Shareef
Engineer: Mohamed Muhtalib Waleed
Drawn by: Mariyam Leevan Jaleel
Services: Aishath Ahmed

Rev no	Date

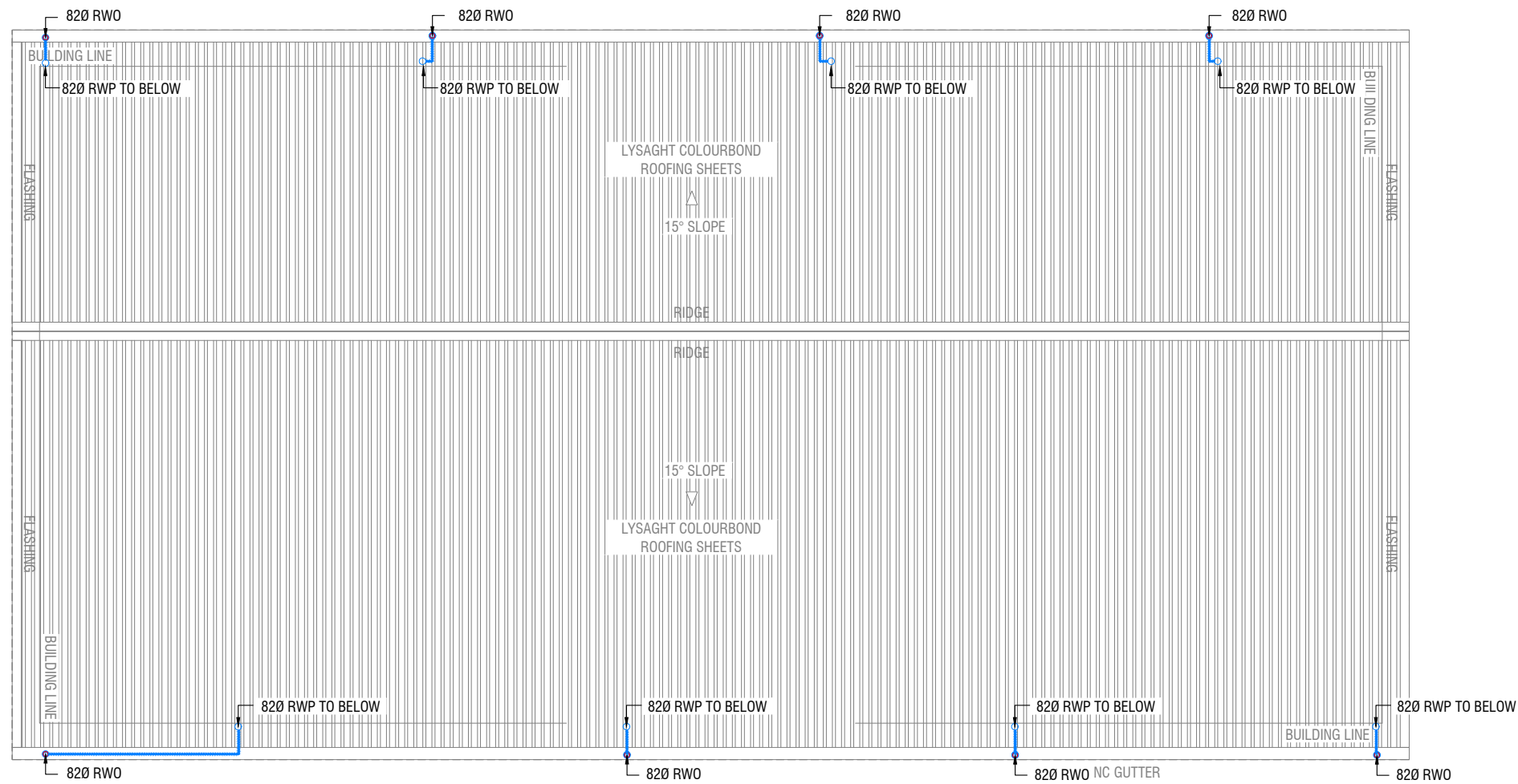


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Title: First Floor
Drainage Layout

Page: DR 02- 03



ROOF DRAINAGE LAYOUT

SCALE 1:100



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

Adh.Fenfushee School 4 Classroom Block (2 story)
Client: Ministry of Education

Project Number: RI/2020/006

Date: March 2021

Architect: Maryam Trasha Shareef

Engineer: Mohamed Muhtalib Waleed

Drawn by: Maryam Laveyan Jaleel

Services: Aishath Ahmed

Rev no

Date



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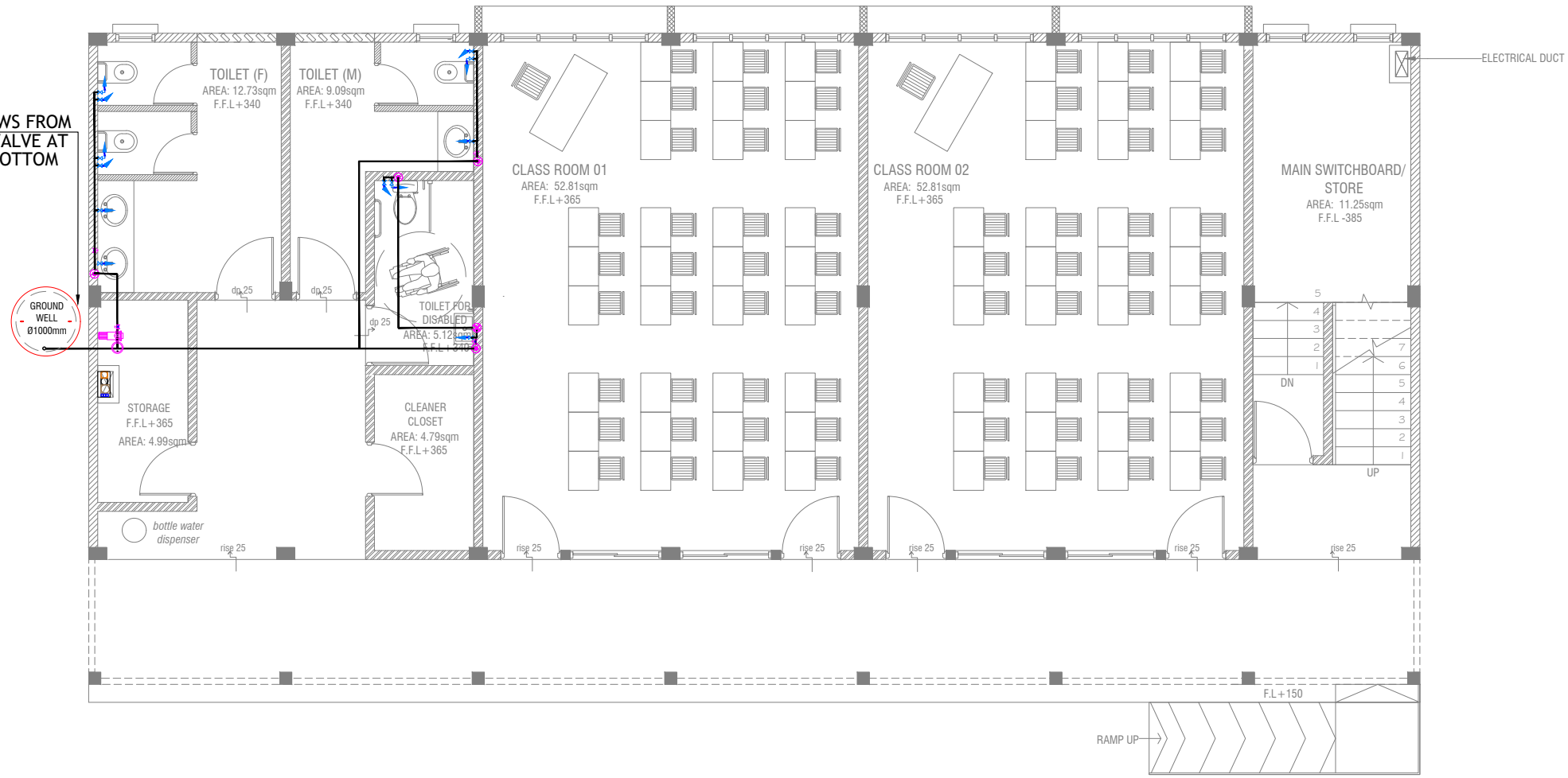
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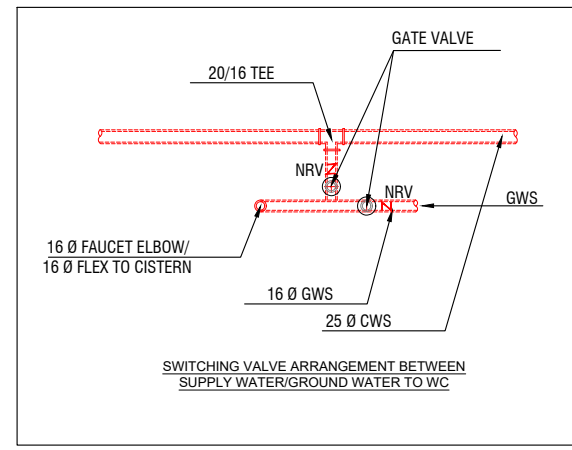
Title: Roof
Drainage Layout

Page: DR 03-03

40 Ø GWS FROM FOOT VALVE AT WELL BOTTOM



GROUND FLOOR PLUMBING LAYOUT



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

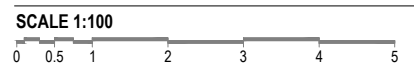
Adh.Fenfushee School 4 Classroom Block (2 story)
 Client: Ministry of Education

Project Number	Date	Rev no	Date
RI/2020/006	March 2021		
Architect: Maryam Trasha Shareef	Engineer: Mohamed Murtadha Waleed		
Drawn by: Maryam Leevan Jaleel	Services: Ashath Ahmed		





FIRST FLOOR PLUMBING LAYOUT



LEGEND

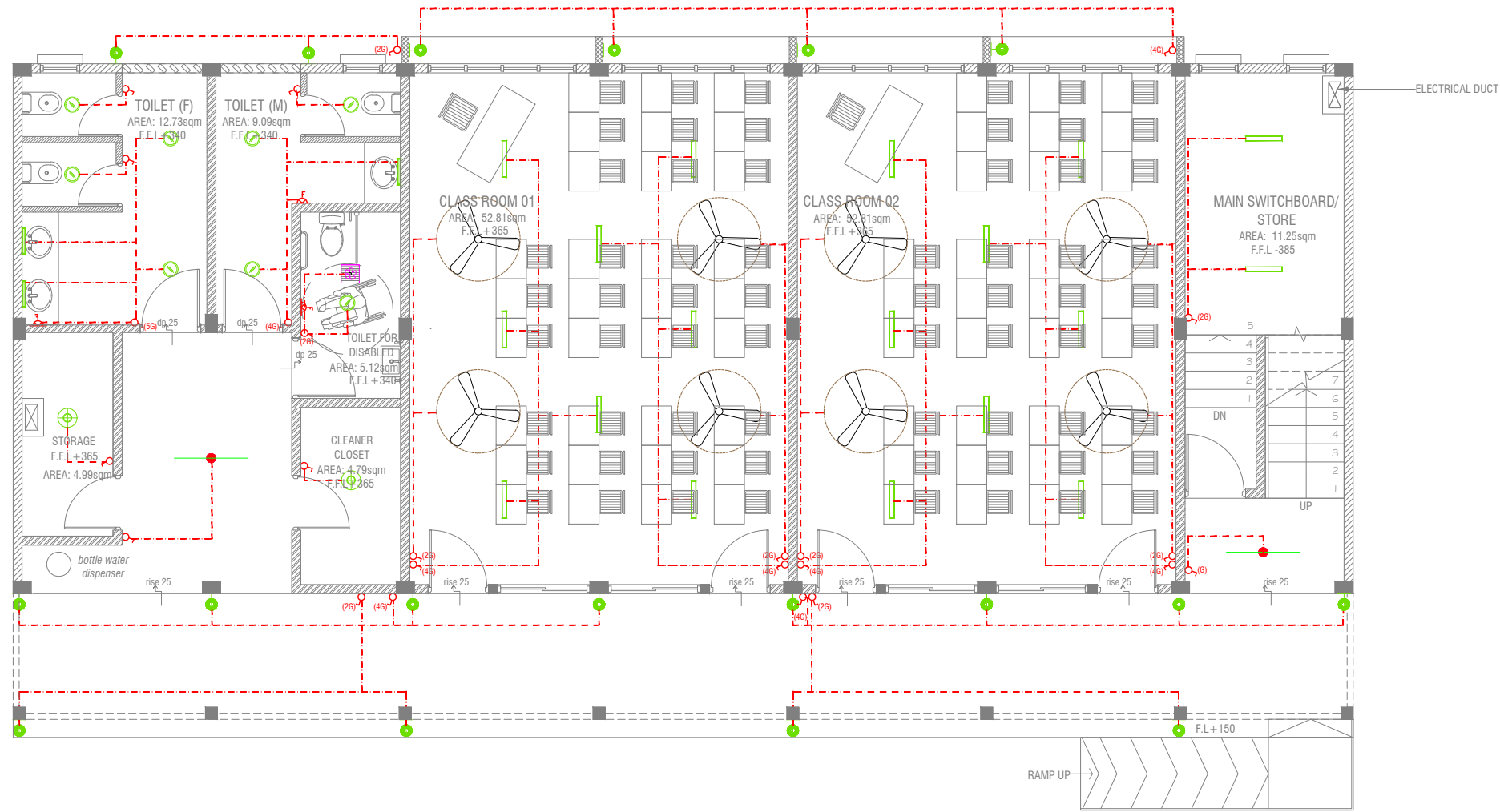
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- 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
- 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
- GV GATE VALVE
- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
- 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
- RISE IN WALL
- DROP IN WALL
-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

Adh.Fenfushee School 4 Classroom Block (2 story)
 Client: Ministry of Education

Project Number: RI/2020/006
 Date: March 2021
 Architect: Maryam Irasha Shareef
 Engineer: Mohamed Muhtalib Waleed
 Drawn by: Maryam Leevan Jaleel
 Services: Aishath Ahmed

Rev no	Date





GROUND FLOOR LIGHTING LAYOUT

SCALE 1:100



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
- EXHAUST FAN (CEILING MOUNTED)
- FLEX OUTLET

CL2 LED TUBE LIGHT WITH OPAL CASING



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

Adh.Fenfushee School 4 Classroom Block (2 story)
Client: Ministry of Education

Rev no	Date
1	March 2021
2	
3	
4	
5	

Project Number: RI/2020/006
Date: March 2021
Architect: Maryam Trasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Maryam Lievean Jaleel
Services: Aishath Ahmed

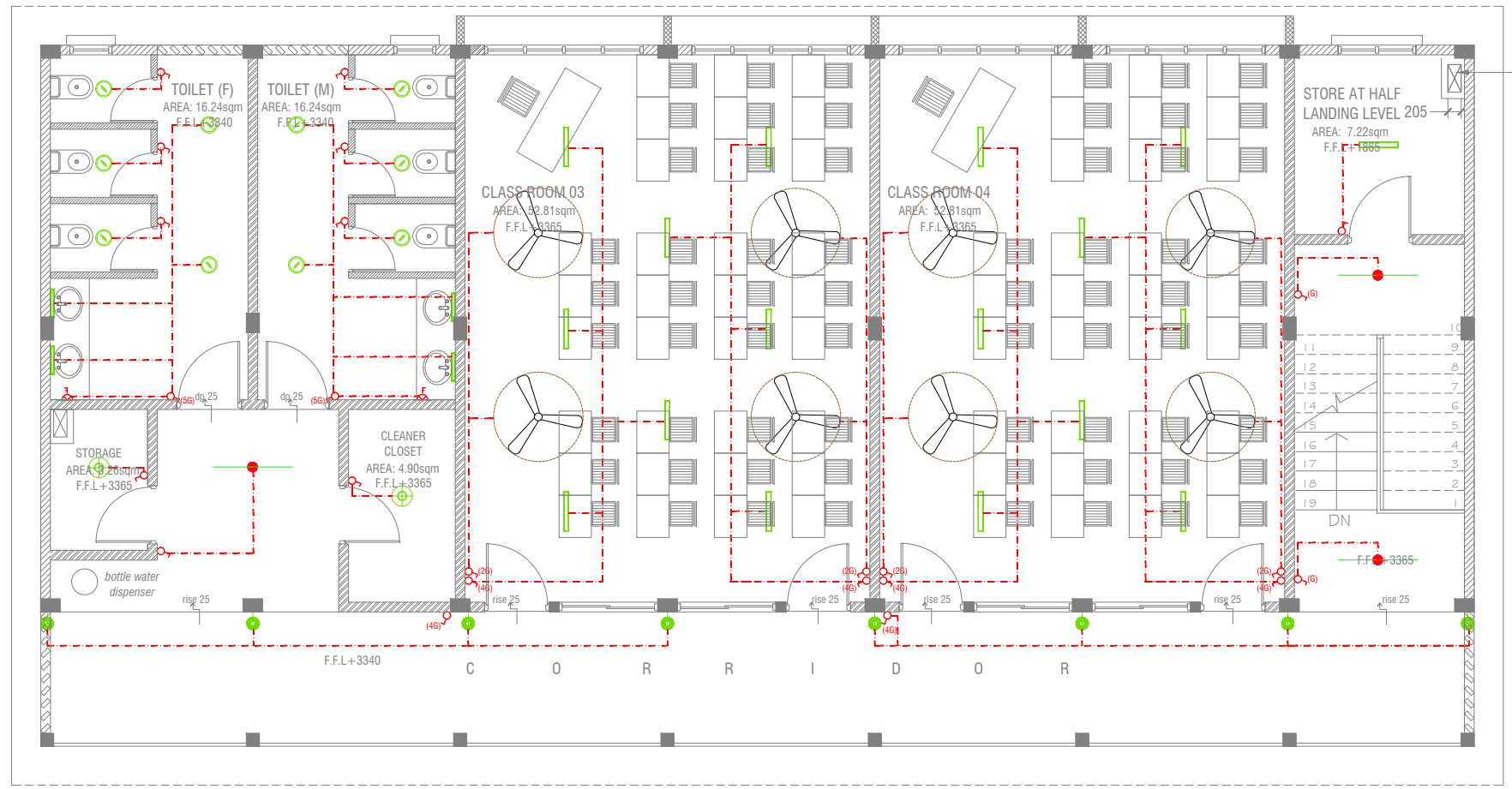


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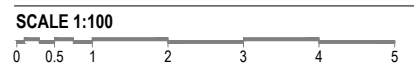
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Title: Ground Floor Lighting Layout

Page: EL 01-02



FIRST FLOOR LIGHTING LAYOUT



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



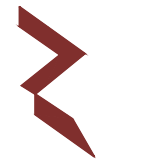
NOTE:

- 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

Adh.Fenfushee School 4 Classroom Block (2 story)
 Client: Ministry of Education

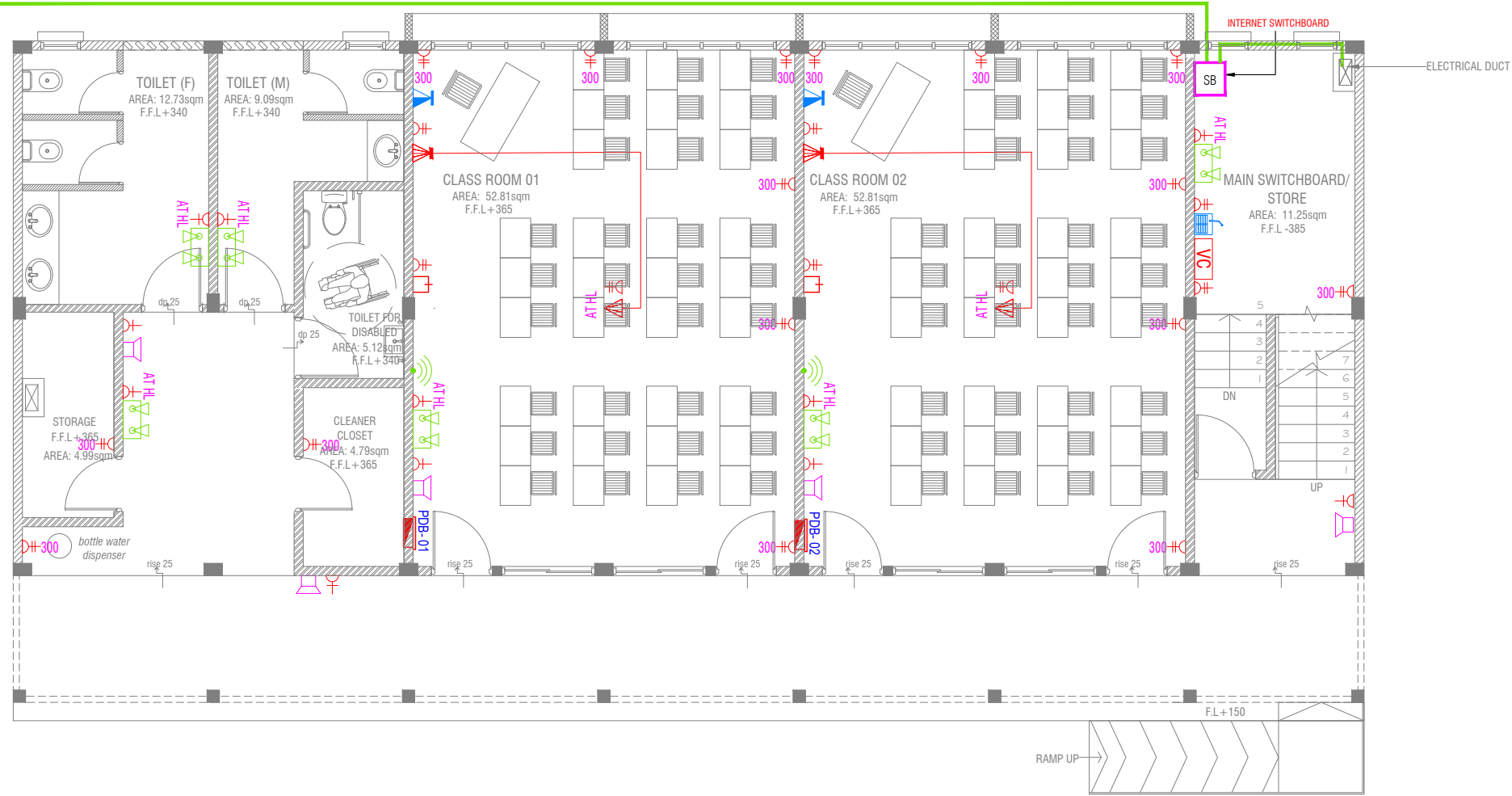
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Project Number: RI/2020/006
 Date: March 2021
 Architect: Maryam Trasha Shareef
 Engineer: Mohamed Muhtalib Waleed
 Drawn by: Maryam Lavevan Jaleel
 Services: Aishath Ahmed



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PVC DUCT FOR DATA CABLE LEAD IN BELOW GR.SLAB



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
- 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
- VOLUME CONTROLLER
- 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 (LOCATED AT MAIN SWITCH BOARD / STORE)

GROUND FLOOR POWER LAYOUT

SCALE 1:100



Adh.Fenfushee School 4 Classroom Block (2 story)
Client: Ministry of Education

Rev no	Date

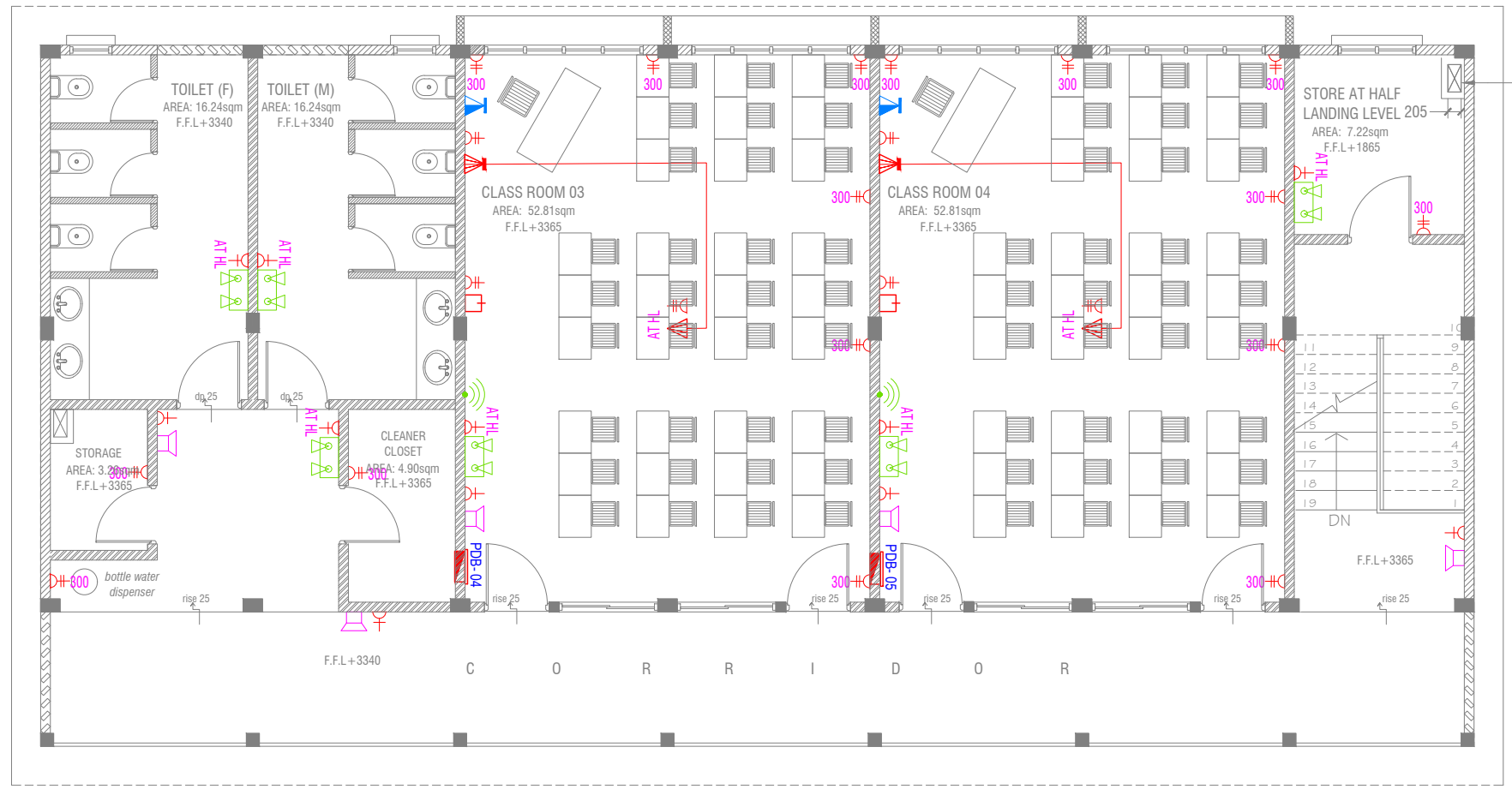
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Date: March 2021
Architect: Maryam Trasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Maryam Leevan Jaleel
Services: Aishath Ahmed



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Title: Ground Floor Power Layout
Page: EP 01-02



FIRST FLOOR POWER LAYOUT



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
- 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
- VOLUME CONTROLLER
- EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

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

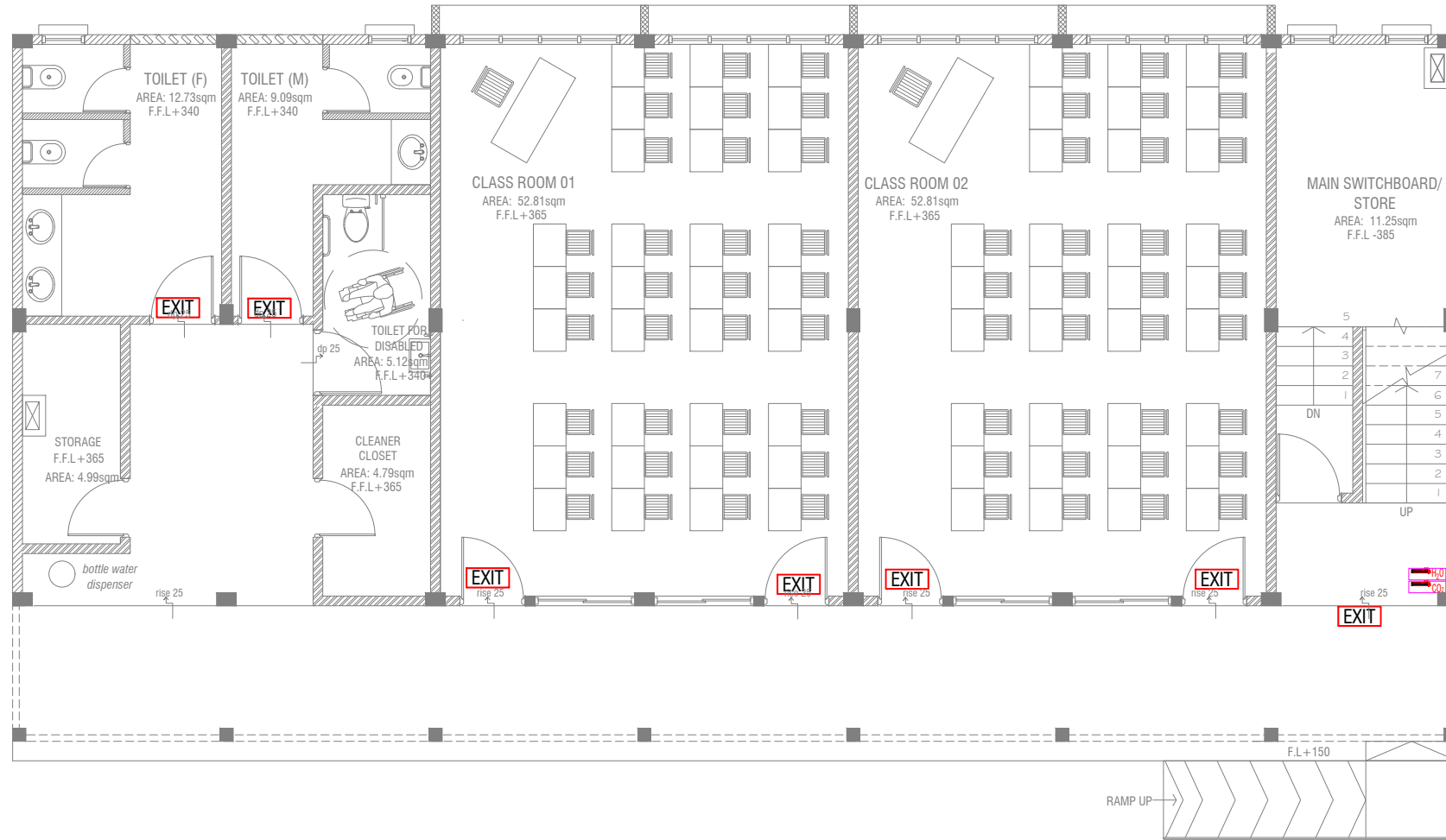
Adh.Fenfushee School 4 Classroom Block (2 story)
Client: Ministry of Education

Rev no	Date
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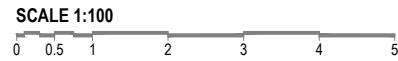
Project Number: RI/2020/006
Date: March 2021
Architect: Maryam Trasha Shareef
Engineer: Mohamed Muhtalib Waleed
Drawn by: Maryam Leevan Jaleel
Services: Aishath Ahmed






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GROUND FLOOR FDP LAYOUT



LEGEND

-  EXIT SIGN
-  CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
-  H₂O 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/BACKET 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

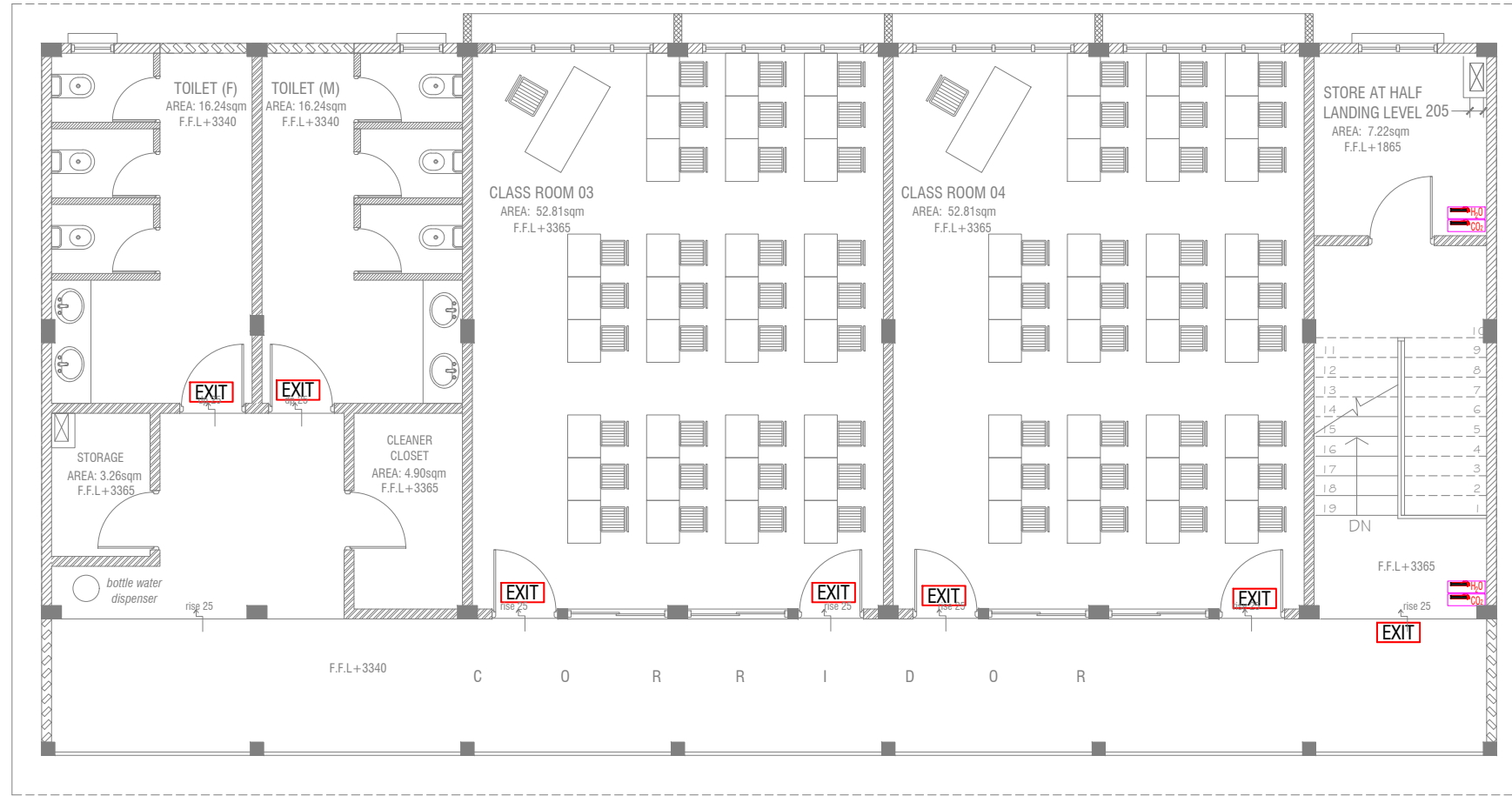
Adh.Fenfushie School 4 Classroom Block (2 story)
 Client: Ministry of Education

Rev no	Date
1	2020/03/01
2	2020/03/01
3	2020/03/01
4	2020/03/01
5	2020/03/01

Project Number: R/2020/006
 Date: March 2021
 Architect: Mariyam Irasha Shareef
 Engineer: Mohamed Muthalib Waleed
 Drawn by: Mariyam Leevan Jaleel
 Services: Aishath Ahmed
 Interior: -



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FIRST FLOOR FDP LAYOUT

SCALE 1:100



LEGEND

-  EXIT SIGN
-  CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
-  H₂O 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/BACKET 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

Adh.Fenfushee School 4 Classroom Block (2 story)
Client: Ministry of Education

Rev no	Date
1	2020/03/06
2	2020/03/06
3	2020/03/06
4	2020/03/06
5	2020/03/06

Project Number: RI/2020/006
Date: March 2021
Architect: Mariyam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Mariyam Leevan Jaleel
Services: Aishath Ahmed
Interior :-

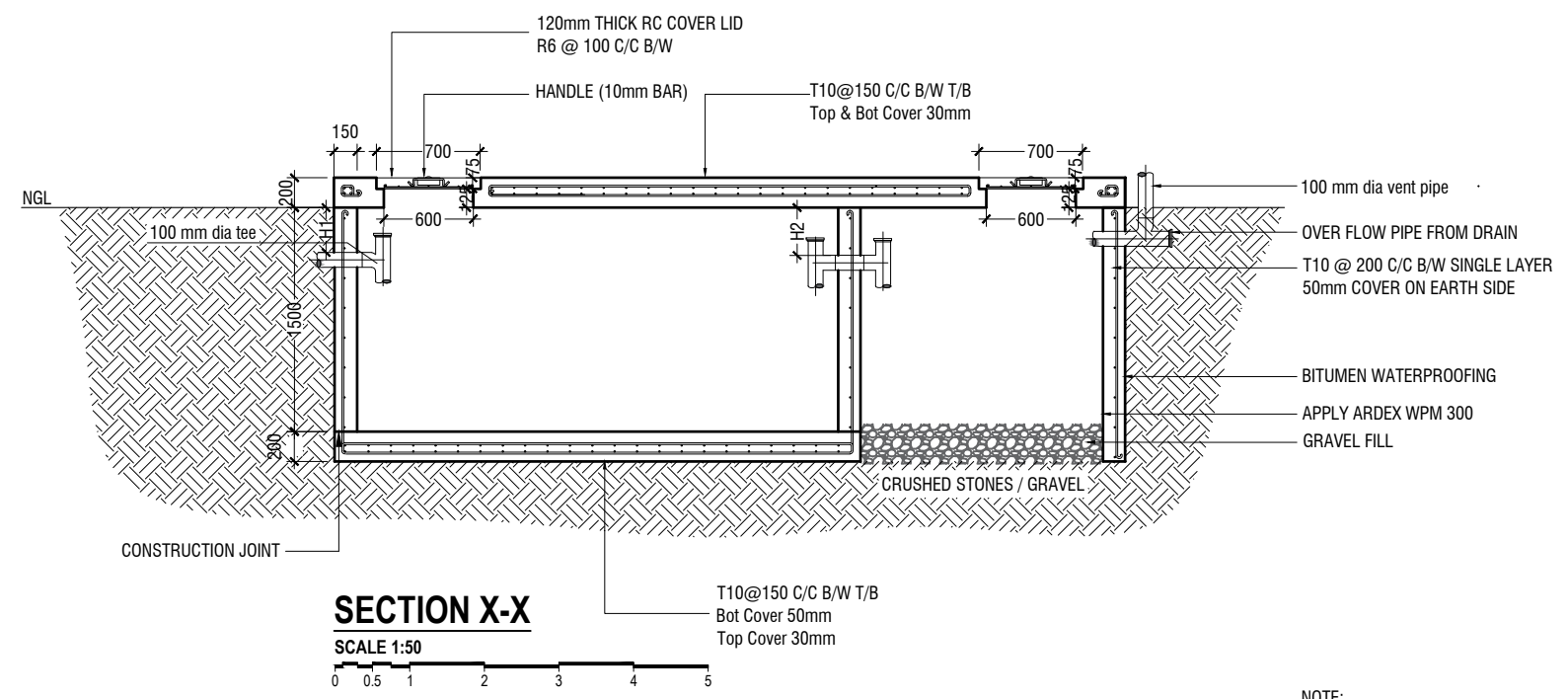
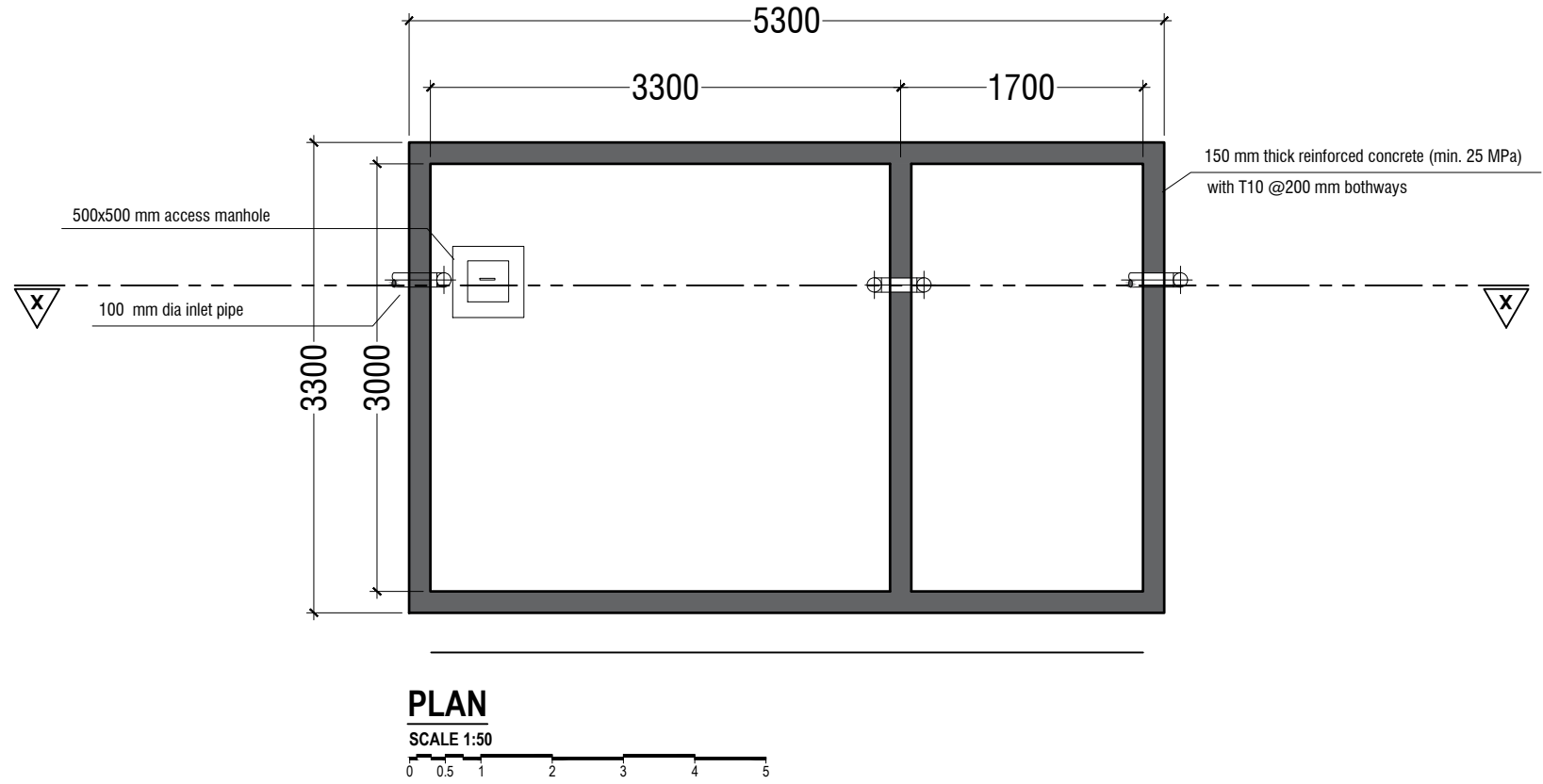


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Title: First Floor
FDP Layout

Page: FDP 02-02



SEPTIC TANK DETAIL
SCALE 1:50

0 0.5 1 2 3 4 5

- NOTE:**
- H1 < H2
- TOP AND BOTTOM OF SEPTIC TANK SHOULD BE OF 200mm THICK
 - BITUMINOUS WATERPROOFING TO BE APPLIED BELOW GROUND SURFACE
 - REINFORCEMENT TO HAVE A COVER OF 50mm FROM EARTH

Adh.Fenfushee School 4 Classroom Block (2 story)
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Drawn by: Mariyam Leevan Jaleel
Services: Aishath Ahmed Interior



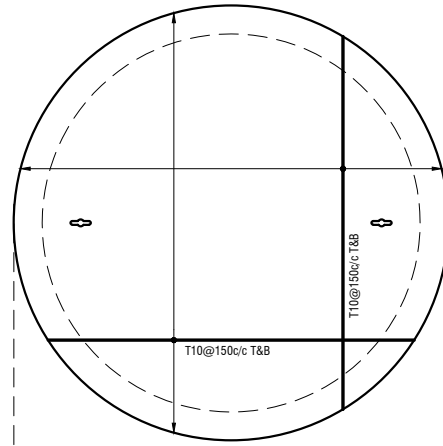
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Title: Septic Tank Detail

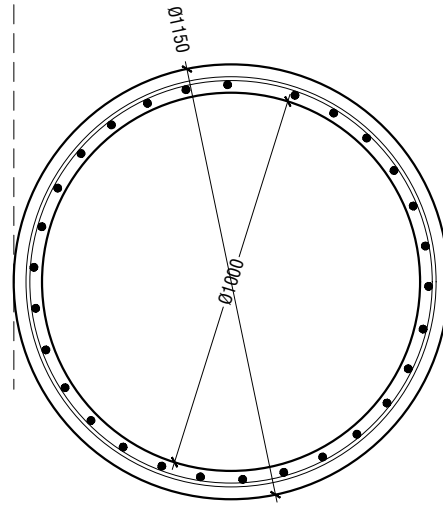
Page: Detail- 01-02

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WATER TANK WALL TOP & BOTTOM SLAB



WATER TANK WALL REINF.

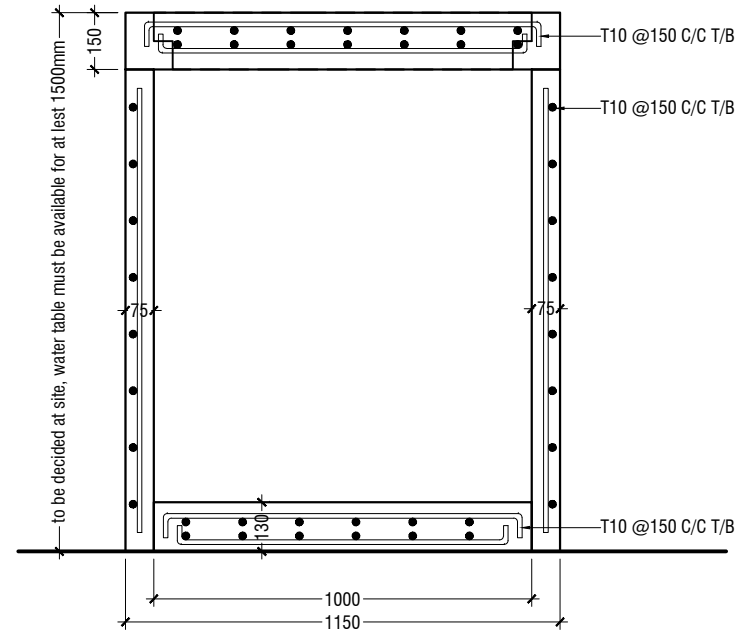


WATER TANK DETAILS

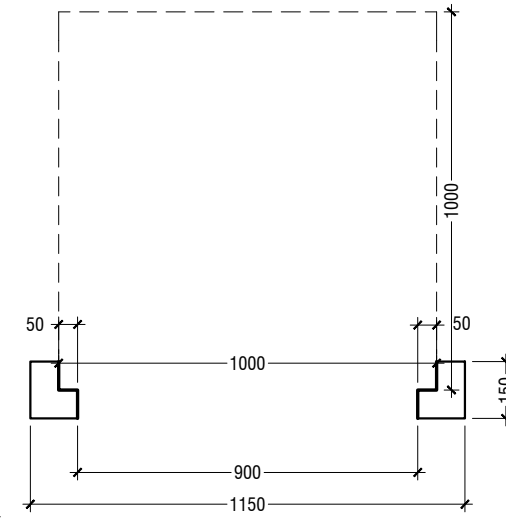
SCALE 1:20



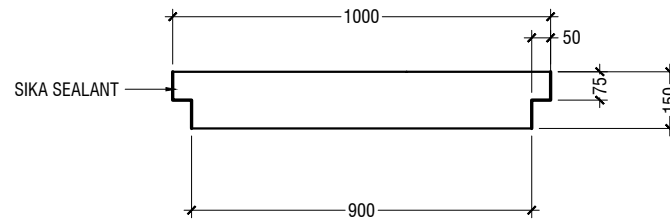
WATER TANK SECTION



ELEVATION

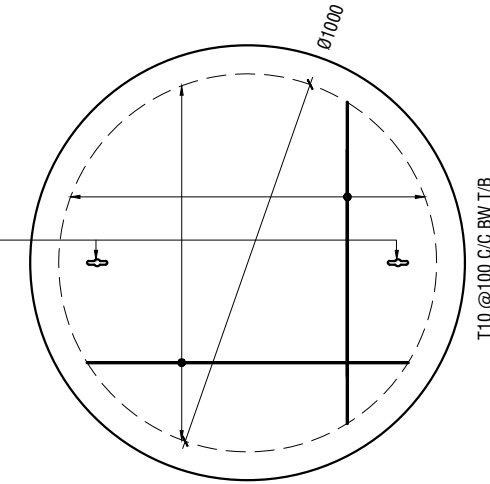


SECTION



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 LID DETAILS

SCALE 1:20



Adh.Fenfushee School 4 Classroom Block (2 story)
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1	March 2021
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Project Number: RI/2020/006
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Interior: -



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Title: Ground Water Well Detail

Page: Detail- 02-02