

Proposed 12 Classroom Block at
S.Maradhoo, Maradhoo Feydhoo
Irushadhiyya School
(04 Storey)

SERVICES DRAWING
Client: Ministry of Education

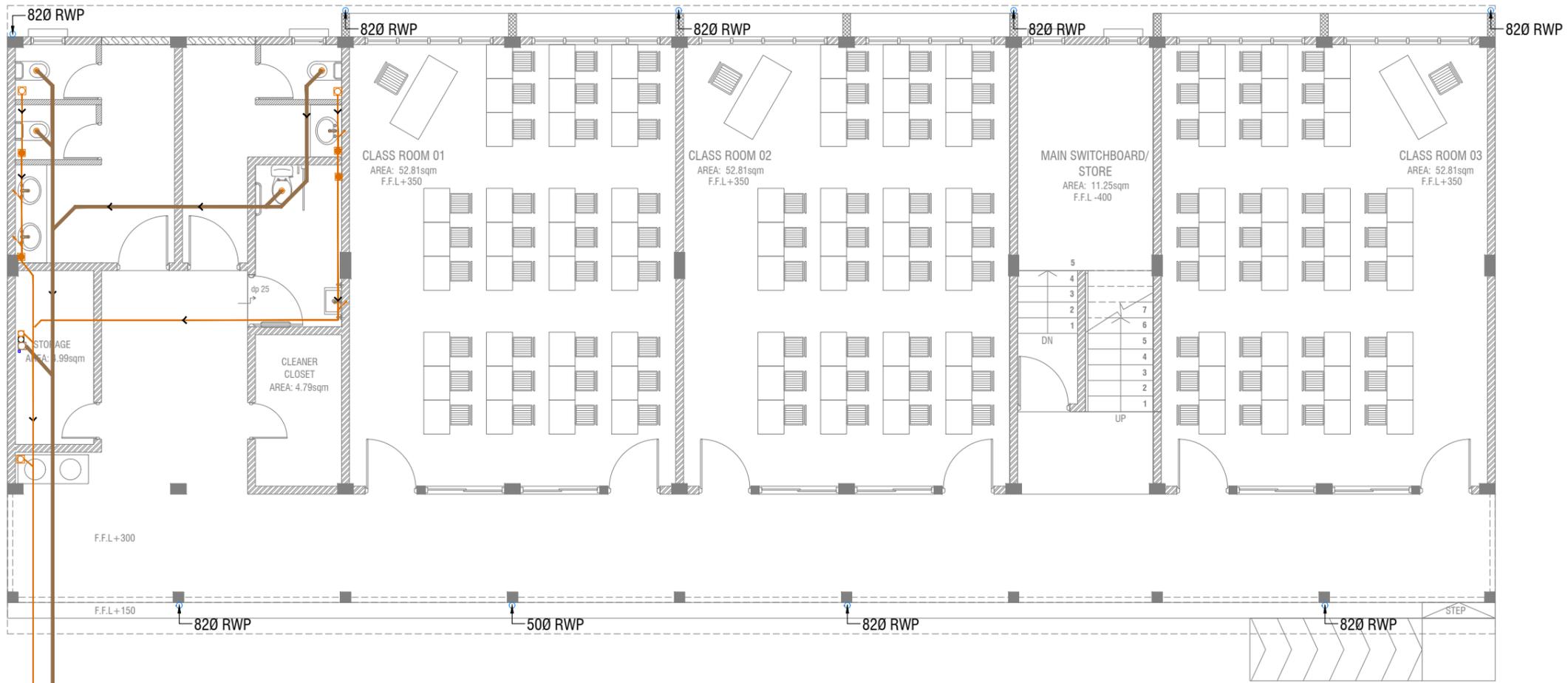


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3rd floor, H. Azum, Ameenemaguu, Male'

TABLE OF CONTENTS

DRAWING No.	TITLE	REVISION No.	DATE	REMARKS
S E R V I C E S				
DR - 01 /03	GROUND FLOOR DRAINAGE LAYOUT	---	---	---
DR - 02 /03	FIRST - THIRD FLOOR DRAINAGE LAYOUT	---	---	---
DR - 03 /03	ROOF DRAINAGE LAYOUT	---	---	---
PL - 01 / 02	GROUND FLOOR PLUMBING LAYOUT	---	---	---
PL - 02 / 02	FIRST - THIRD FLOOR PLUMBING LAYOUT	---	---	---
EL - 01 / 02	GROUND FLOOR LIGHTING LAYOUT	---	---	---
EL - 02 / 02	FIRST - THIRD FLOOR LIGHTING LAYOUT	---	---	---
EP - 01 / 02	GROUND FLOOR POWER LAYOUT	---	---	---
EP - 02 / 02	FIRST - THIRD FLOOR POWER LAYOUT	---	---	---
FDP - 01 / 02	GROUND FLOOR FDP LAYOUT	---	---	---
FDP - 02 / 02	FIRST - THIRD FLOOR FDP LAYOUT	---	---	---
SC - 01 / 01	TEMPORARY TOILET SERVICES	---	---	---
DETAIL - 01 / 01	GROUND WATER WELL DETAILS	---	---	---



CONNECTED TO EXISTING SEWER PIPES

GROUND 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 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.

S.Maradhoo, Maradhoo Feydhoo
 Irushadhiyya School - 12 Classroom (04 Storey)
 Client: Ministry of Education

Rev no	Date
1	
2	
3	
4	

Project Number: RI/2017/012
 Date: January 2021
 Architect: Mariyam Krasha Shareef
 Engineer: Mohamed Muththalib Waleed
 Drawn by: Mariyam Leeran Jaleel
 Services: Alishah Ahmed

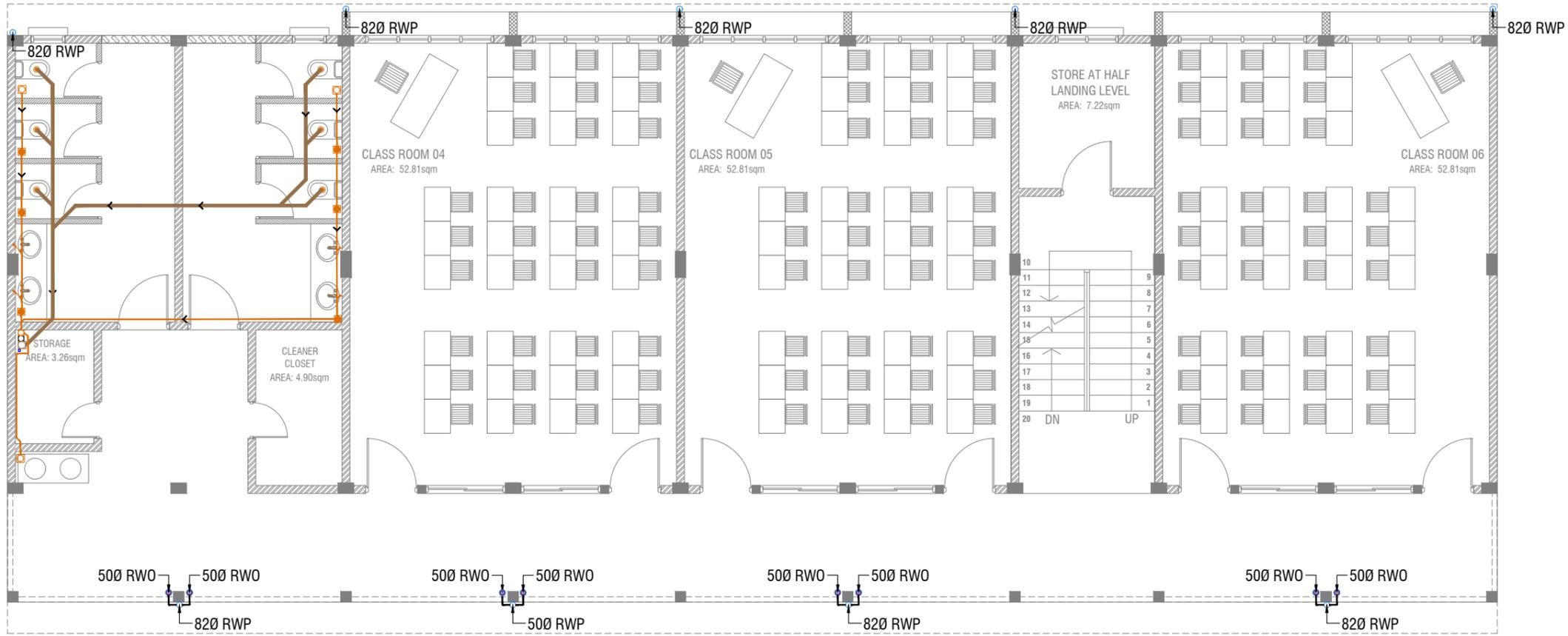


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Title: Ground Floor
 Drainage Layout

Page: DR 01-03



FIRST - THIRD 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.

S.Maradhoo, Maradhoo Feydhoo
Irushadhiyya School - 12 Classroom (04 Storey)
Client: Ministry of Education

Rev no	Date
1	10/01/2021
2	10/01/2021
3	10/01/2021
4	10/01/2021

Project Number: RI/2017/012
Date: January 2021
Architect: Mariyam Krasha Shareef
Engineer: Mohamed Muththallib Waleed
Drawn by: Mariyam Leeran Jaleel
Services: Alshath Ahmed

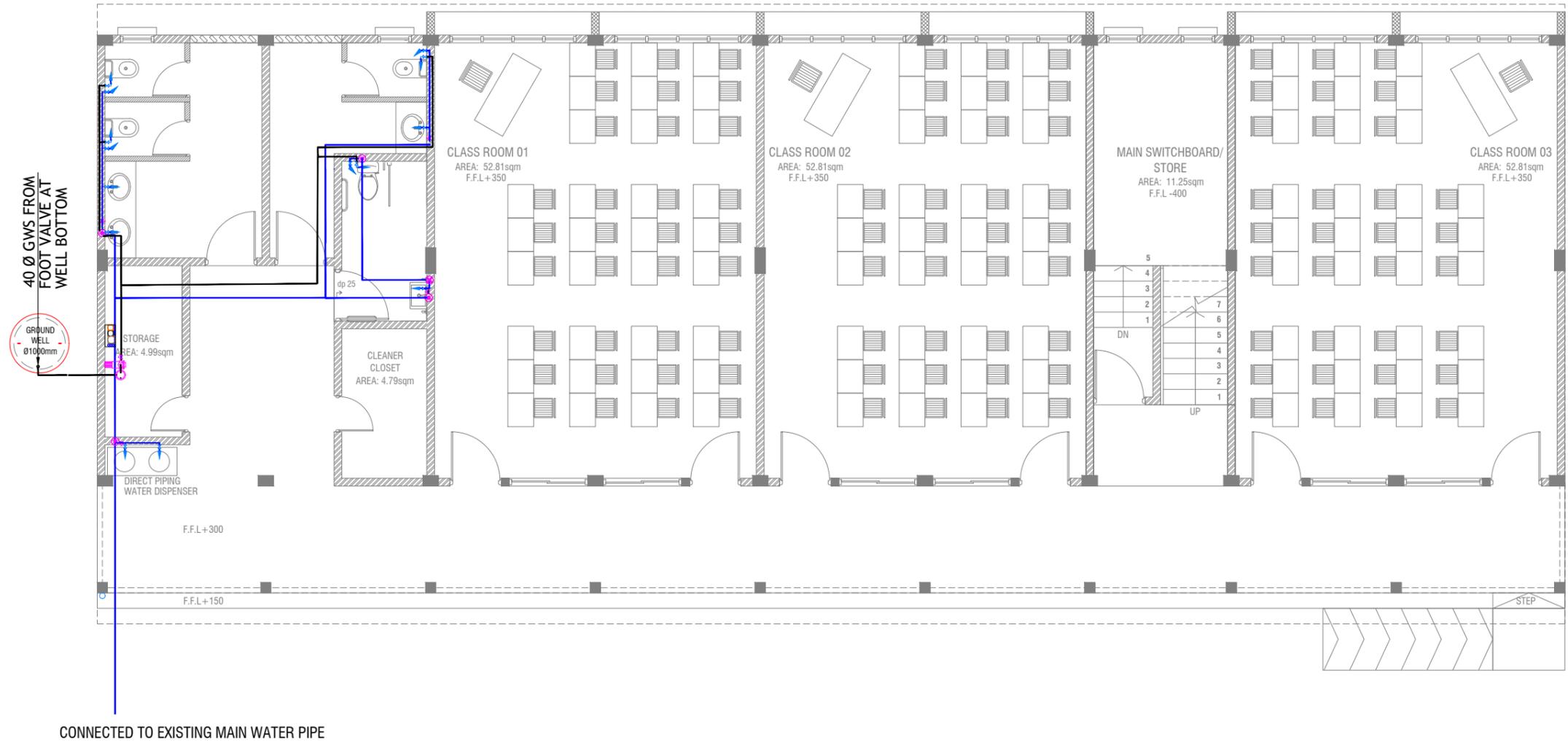


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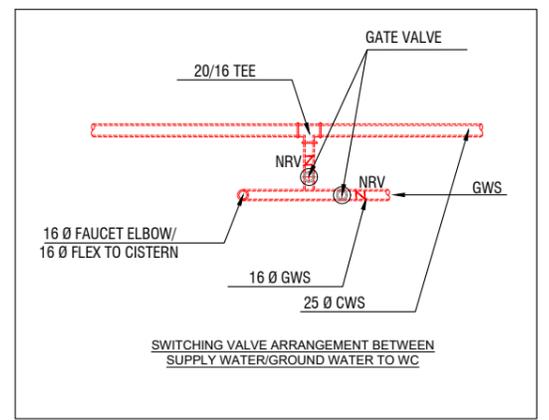
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Title: First - Third Floor
Drainage Layout

Page: DR 02- 03



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

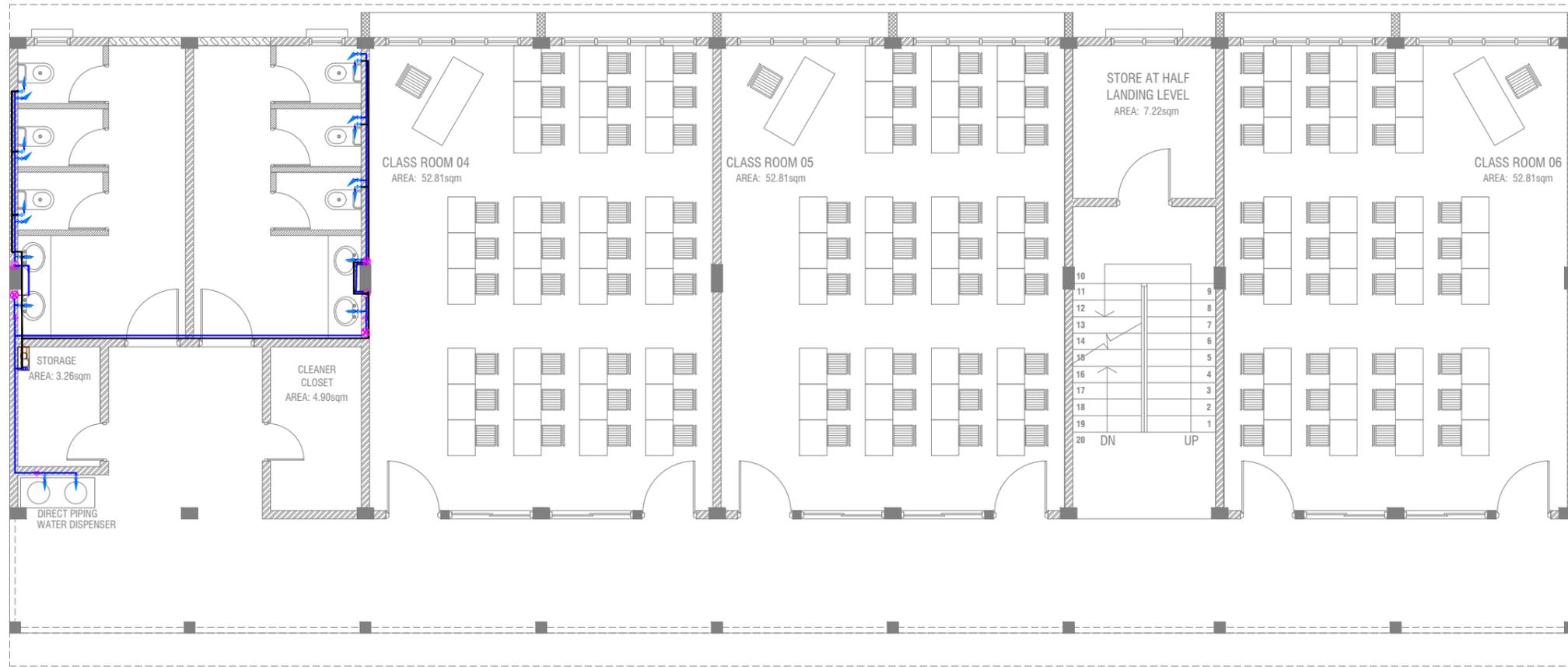
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 Irushadhiyya School - 12 Classroom (04 Storey)
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FIRST - THIRD FLOOR PLUMBING LAYOUT

SCALE 1:100



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
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- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
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- RISE IN WALL
- DROP IN WALL
- CWS** COLD WATER SUPPLY
- HWS** HOT WATER SUPPLY
- GROUND WATER SUPPLY

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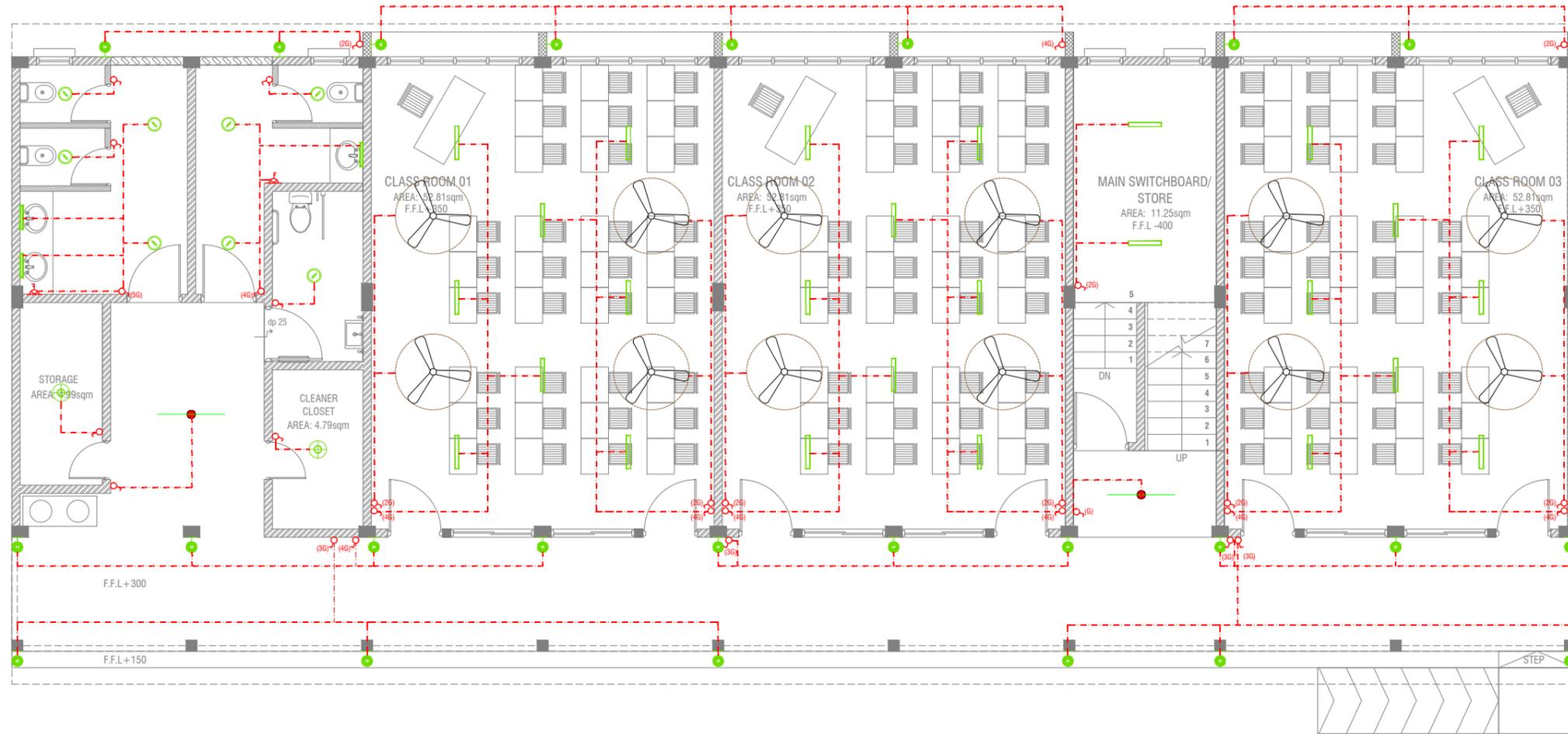


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Title: First - Third Floor
 Plumbing Layout

Page: PL 02-/02



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

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

S. Maradhoo, Maradhoo Feydhoo
Irushadhyya School - 12 Classroom (04 Storey)
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Rev no	Date
1	10/09/2021
2	
3	
4	

Project Number: RI/2017/012
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Drawn by: Mariyam Leeran Jaleel
Services: Alshath Ahmed

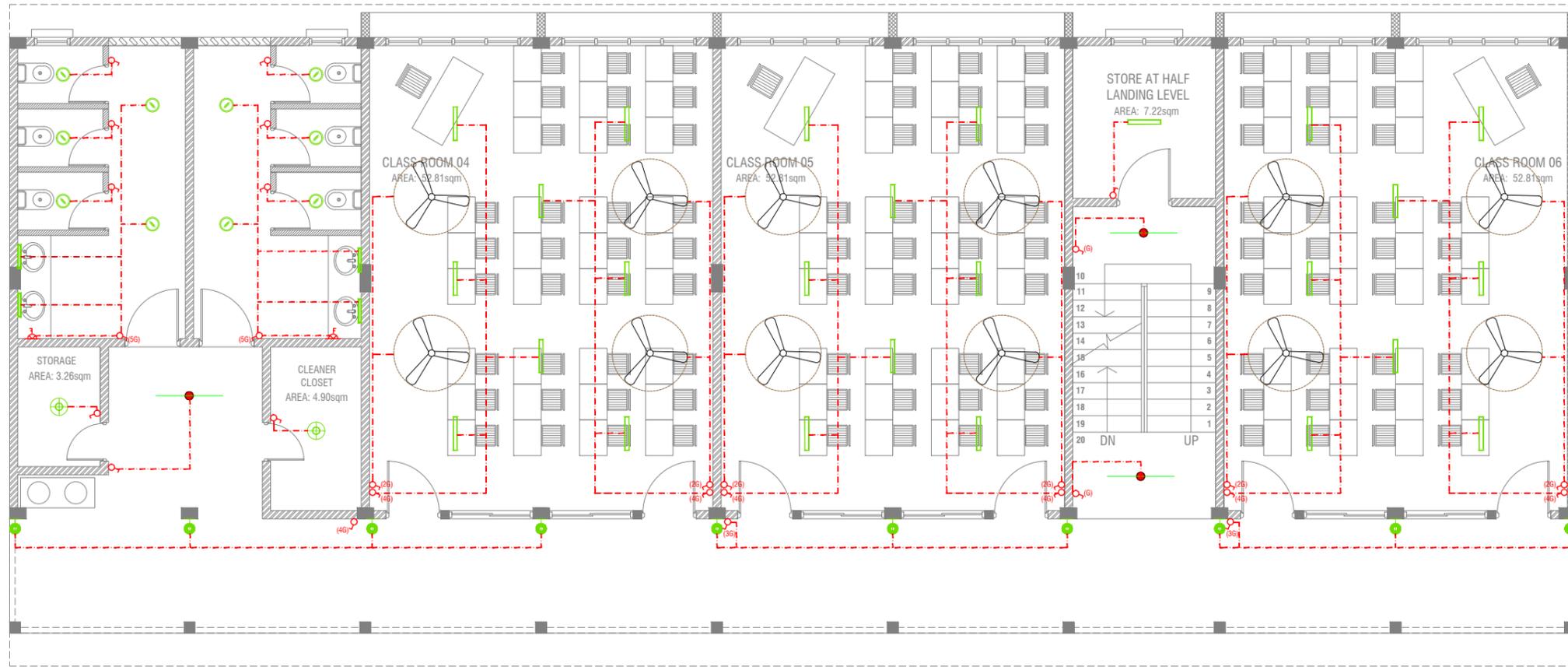


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Title: Ground Floor
Lighting Layout

Page: EL 01-02



FIRST - THIRD 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

CL2 LED TUBE LIGHT WITH OPAL CASING



NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
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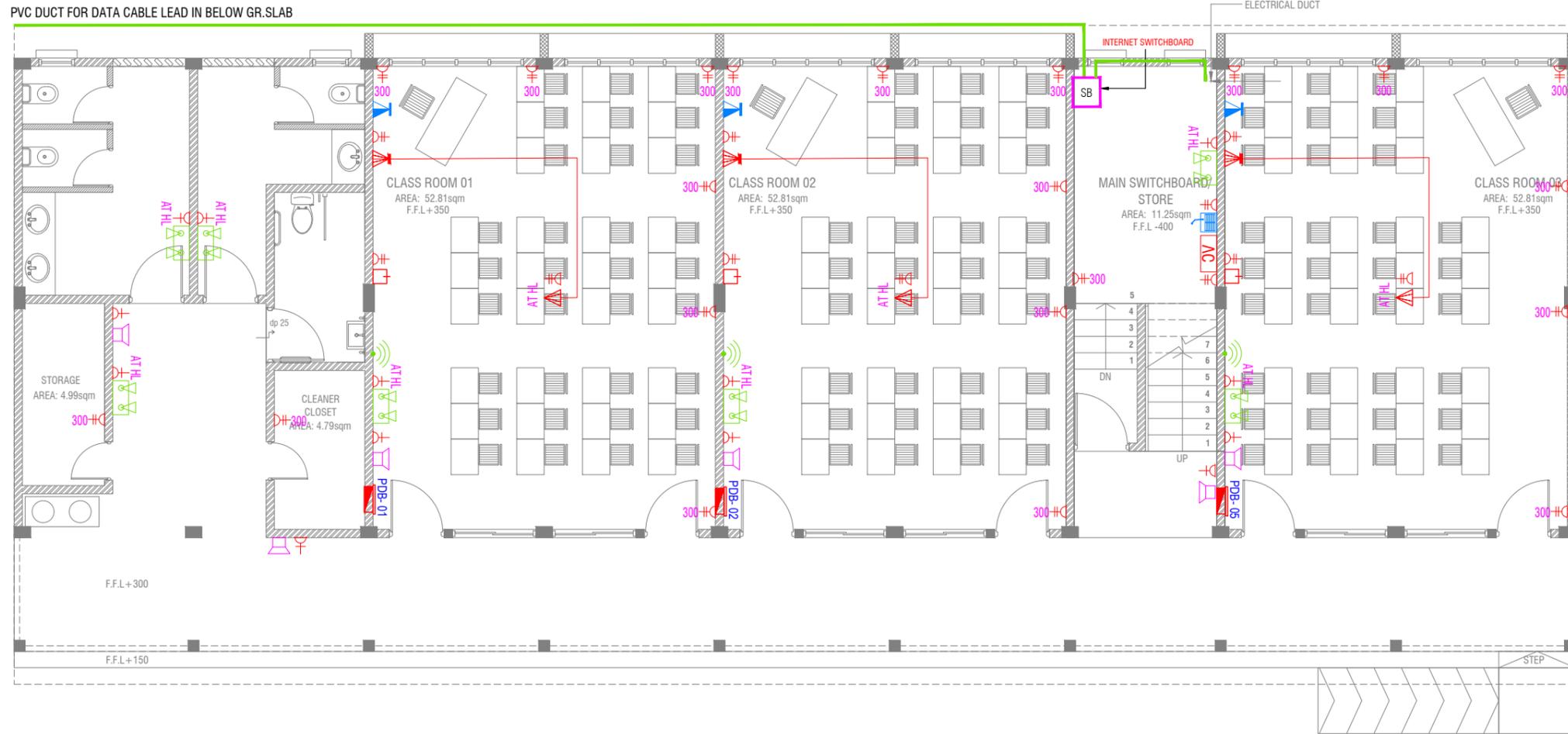


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Title: First - Third Floor
 Lighting Layout

Page: EL 02-02



GROUND FLOOR POWER LAYOUT

SCALE 1:100



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

- PAGING MIC
- 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

S. Maradhoo, Maradhoo Feydhoo
Irushadhyya School - 12 Classroom (04 Storey)
Client: Ministry of Education

Rev no	Date
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Project Number: RI/2017/012
Date: January 2021
Architect: Mariyam Krasha Shareef
Engineer: Mohamed Muththalib Waleed
Drawn by: Mariyam Leeran Jaleel
Services: Alshath Ahmed

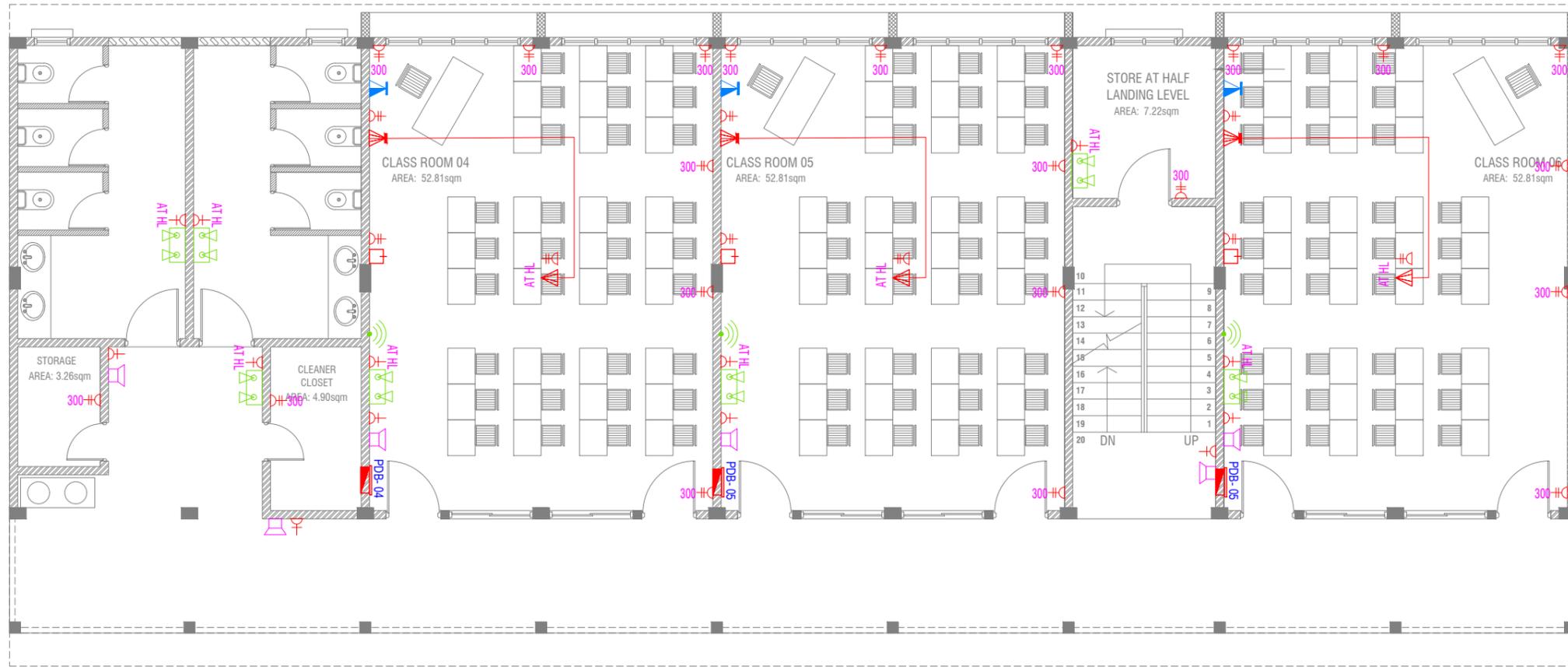


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Title: Ground Floor
Power Layout

Page: EP 01-02



FIRST - THIRD FLOOR POWER LAYOUT

SCALE 1:100



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
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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
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- PAGING MIC
- VOLUME CONTROLLER
- EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

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S. Maradhoo, Maradhoo Feydhoo
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Services: Alshath Ahmed

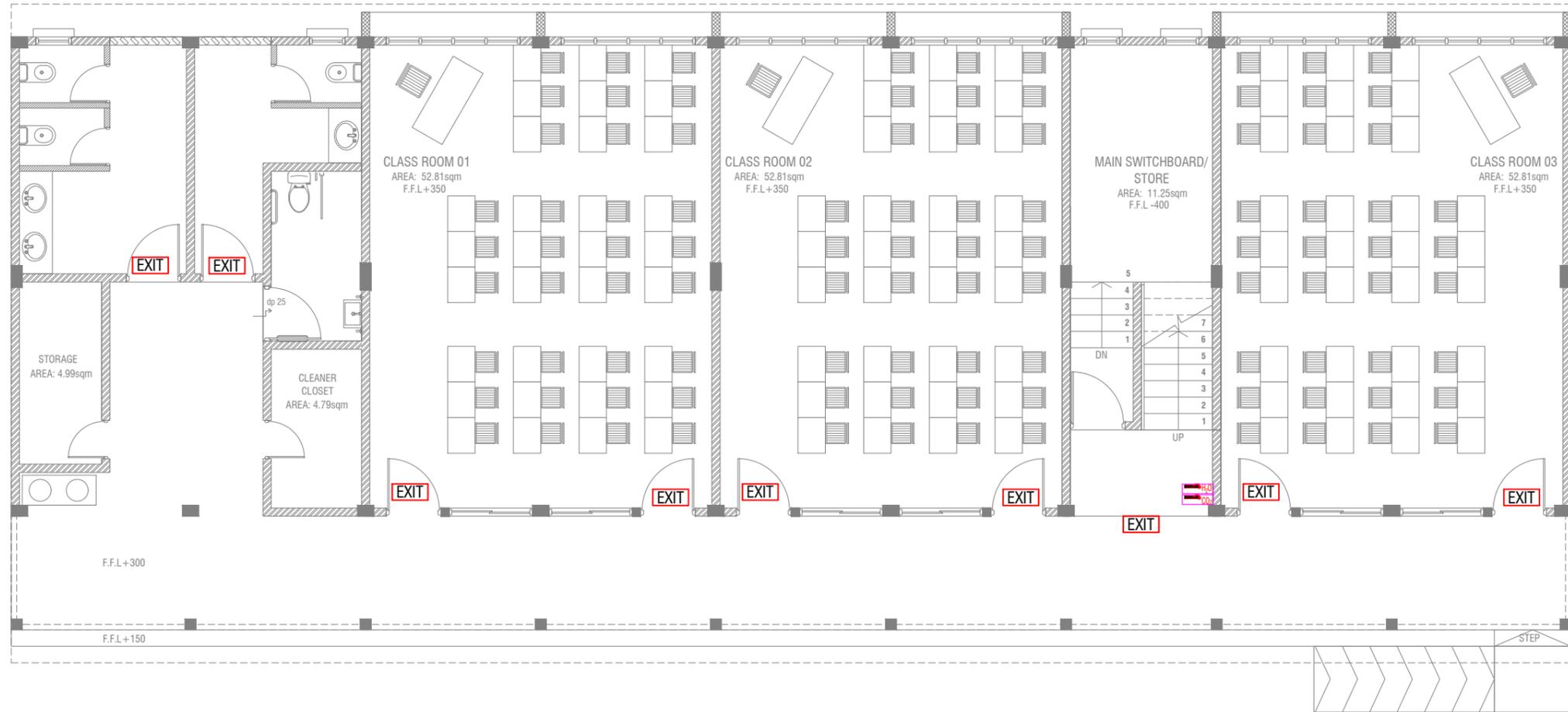


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Title: First - Third Floor
Power Layout

Page: EP 02-02



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/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

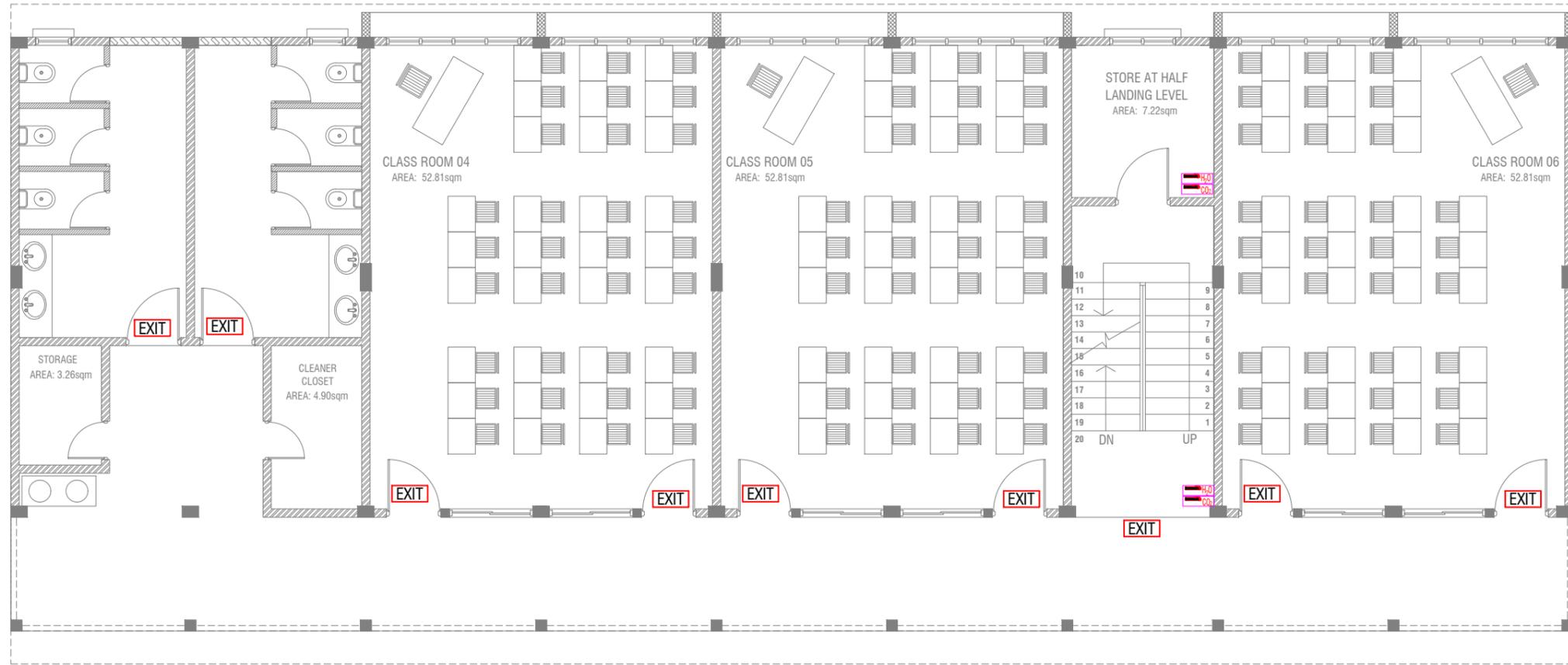
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 Client: Ministry of Education

Rev no	Date
1	10/01/2021
2	10/01/2021
3	10/01/2021
4	10/01/2021



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FIRST - THIRD 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.)

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-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM, SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.
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S. Maradhoo, Maradhoo Feydhoo
 Irushadhiya School - 12 Classroom (04 Storey)
 Client: Ministry of Education

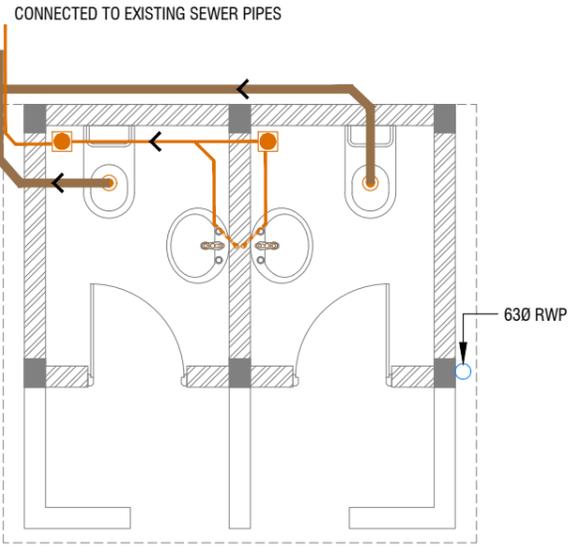
Rev no	Date
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Project Number: B/2017/012
 Date: January 2021
 Architect: Maryam Irasha Shareef
 Engineer: Mohamed Muthalib Waleed
 Drawn by: Maryam Leevan Jaleel
 Services: Alshadi Altmied

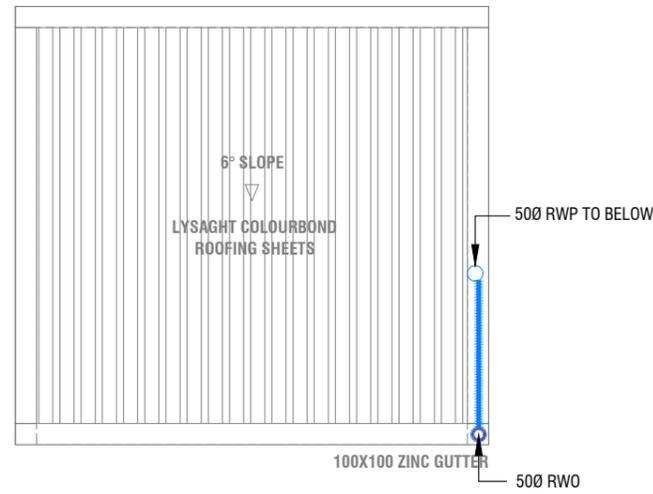


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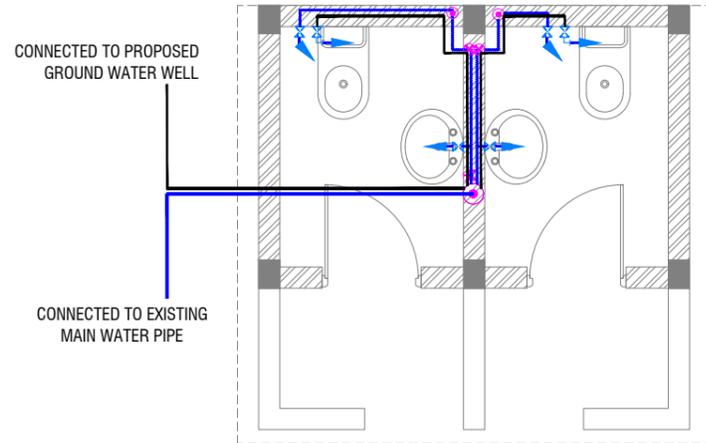
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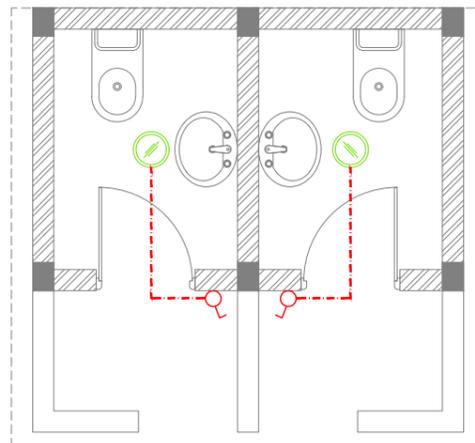
DRAINAGE LAYOUT



ROOF DRAINAGE LAYOUT



PLUMBING LAYOUT



LIGHTING LAYOUT

LEGEND

- FG FLOOR GULLY
- SP 110 Ø SOIL PIPE
- WP 82 Ø WASTE PIPE
- WP 40 Ø WASTE PIPE
- RWP 82/50 Ø RAINWATER PIPE
- RWO 82/50 Ø DRAIN OUTLET

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.

- 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

- LED RECESSED DOWN LIGHT 12W
- LIGHT SWITCH
- SWITCHING LINE

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

TEMPORARY TOILET SERVICES



S.Maradhoo, Maradhoo Feydhoo
 Irushadhiya School - 12 Classroom (04 Storey)
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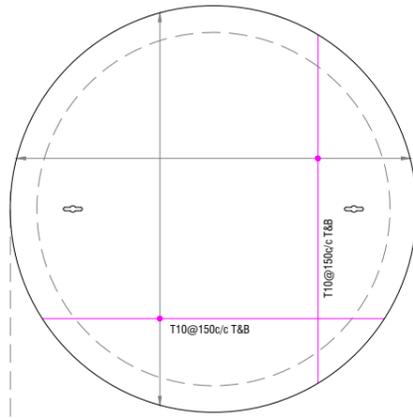
Project Number: RI/2017/012	Rev no	Date
Date: January 2021	-	-
Architect: Mariyam Ibrahim Shareef	-	-
Engineer: Mohamed Muhtalib Waleed	-	-
Drawn By: Mariyam, Leevan, Jaleel	-	-
Services: Alshath Alimmed	-	-



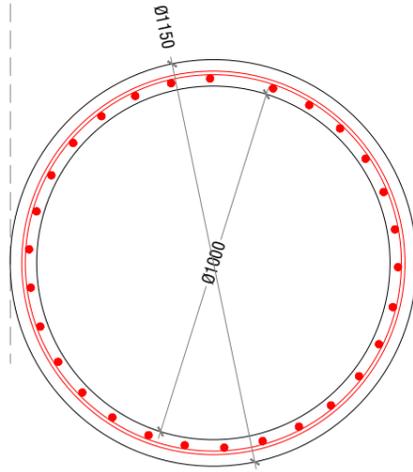
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Title: Temporary Toilet Services
 Page: SC 01-01

WATER TANK WALL TOP & BOTTOM SLAB



WATER TANK WALL REINF.

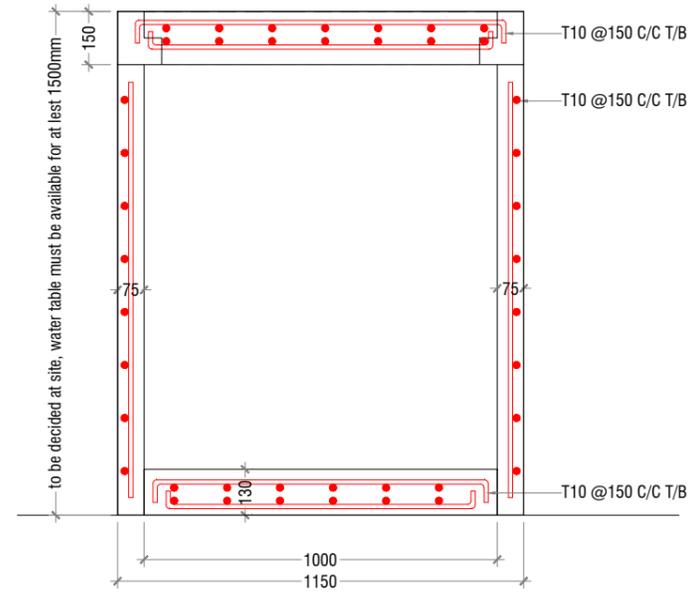


WATER TANK DETAILS

SCALE 1:20

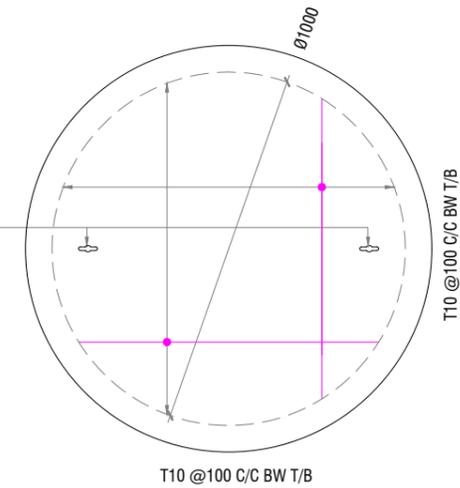


WATER TANK SECTION



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

PLAN



NOTE:

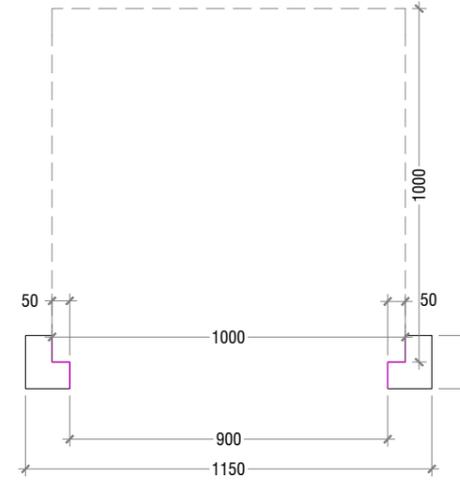
- ALL CONCRETE WORKS BELOW GROUND AND AT TERRACE LEVEL TO BE TREATED WITH 'SIKA' WATERPROOFING CHEMICAL OR EQUIVALENT
- PROVIDE PROVISION FOR WATER ENTRANCE THROUGH THE BASE

WATER TANK LID DETAILS

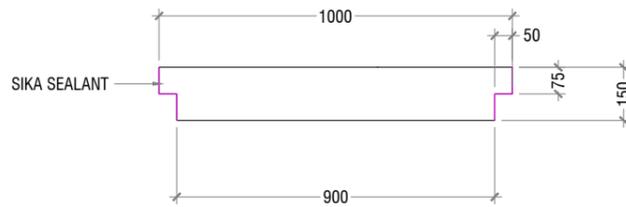
SCALE 1:20



ELEVATION



SECTION



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Title: Ground Water Well Detail
Page: Detail 01-01

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