

Proposed 12 Classroom at
Sn.Hithadhoo School
(03 Storey)

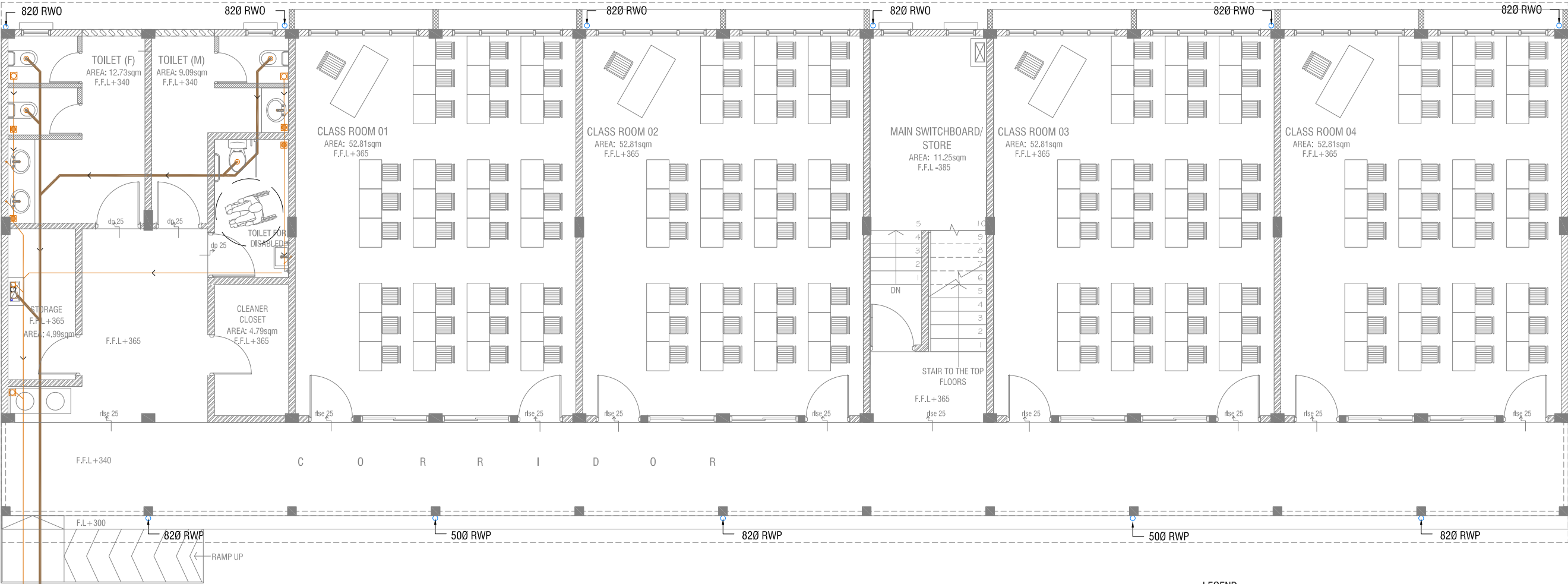
SERVICES DRAWINGS
Client: Ministry of Education



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

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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
 - MHPV 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.

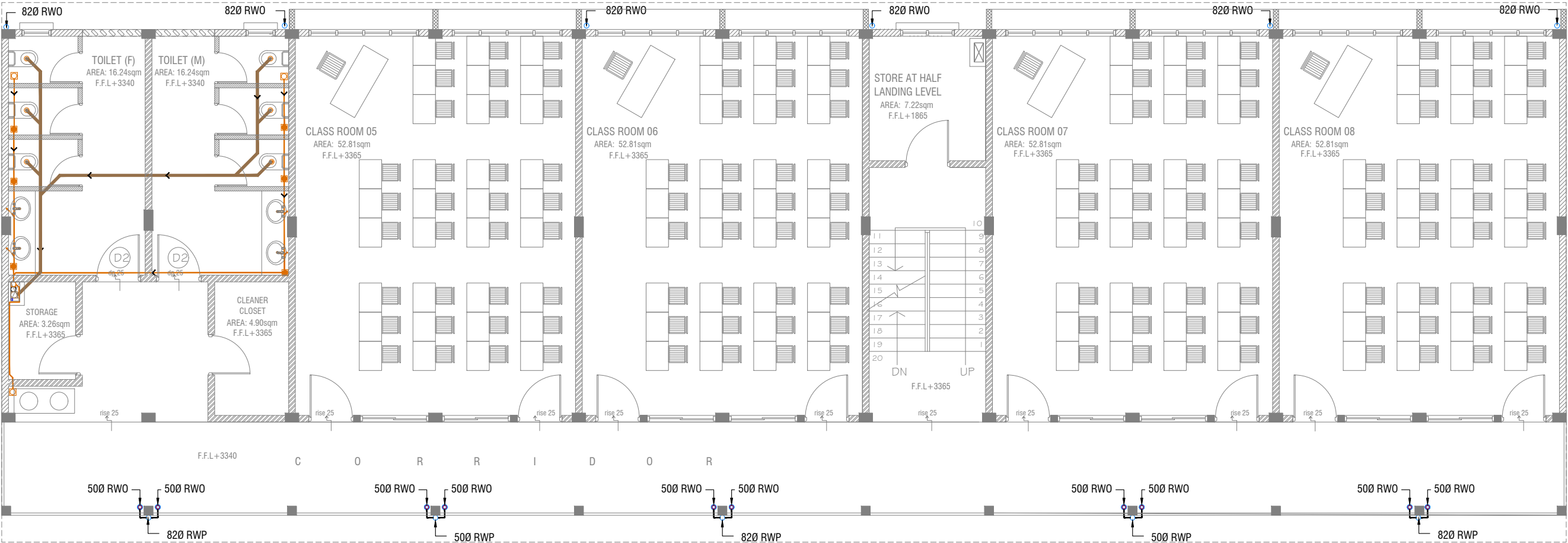
GROUND FLOOR DRAINAGE LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

Sn.Hithadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: April 2021	1	1
Architect: Nanyam Trasha Shareef	2	2
Engineer: Mohamed Muhtalib Waleed	3	3
Drawn by: Nanyam Leevan Jaleel	4	4
Services: Alshath Ahmed	5	5
Interior: -	6	6



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

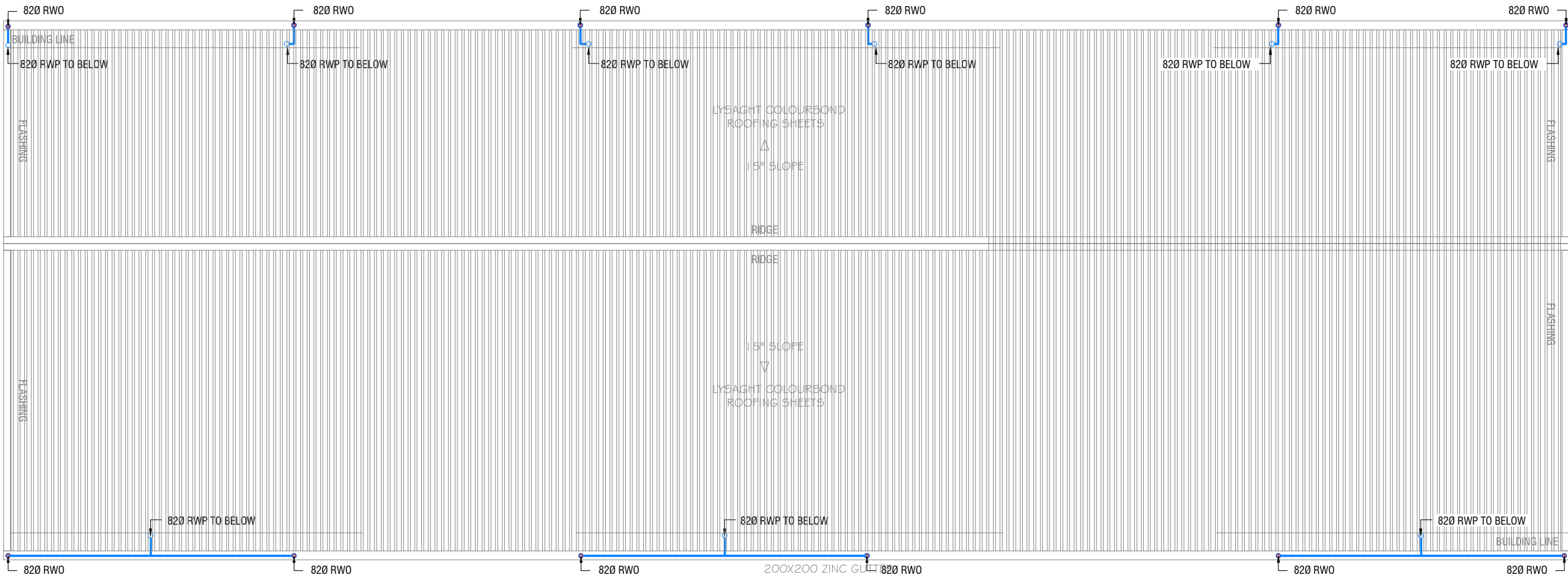
MHVP

50 Ø MANHOLE VENT PIPE

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

FIRST - SECOND 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

ROOF DRAINAGE LAYOUT

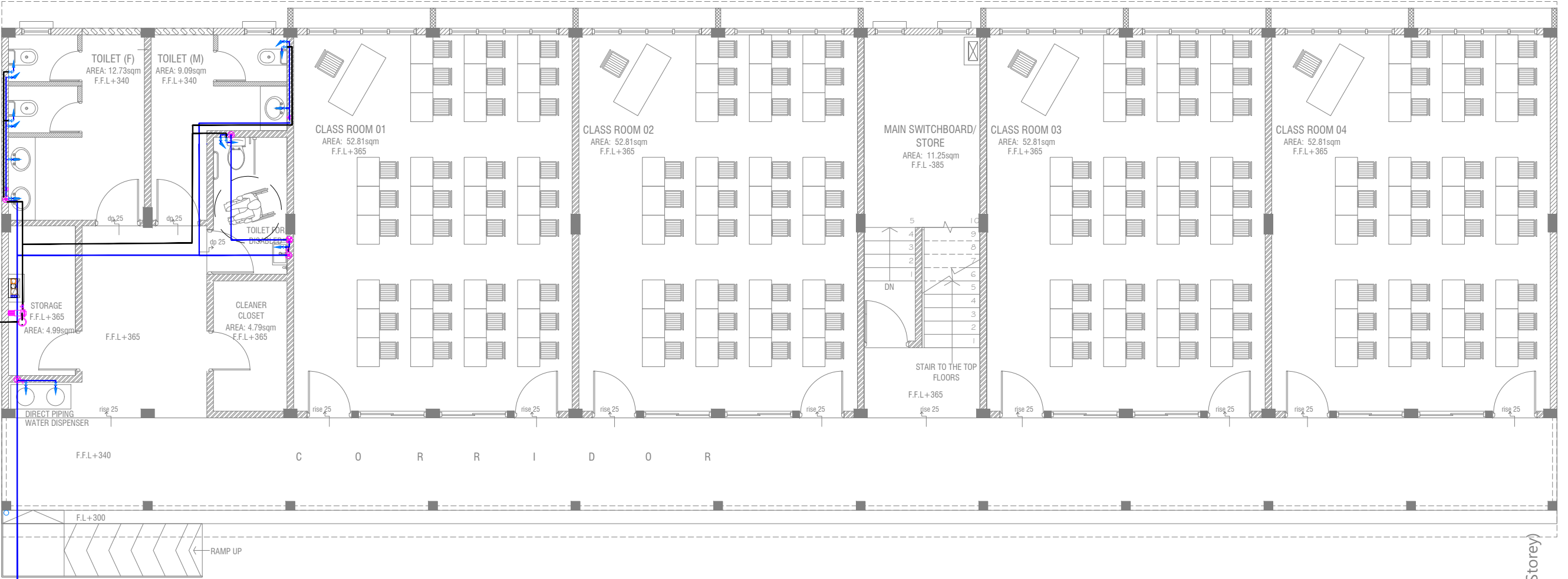


Sn.Hithadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Rev no	Date
1	2021
2	
3	
4	
5	

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

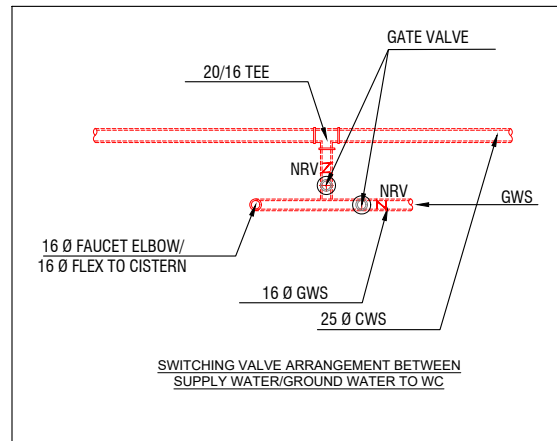
40 Ø GWS FROM
FOOT VALVE AT
WELL BOTTOM



CONNECTED TO EXISTING MAIN WATER PIPE

GROUND 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
- 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

Sn.Hithadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

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

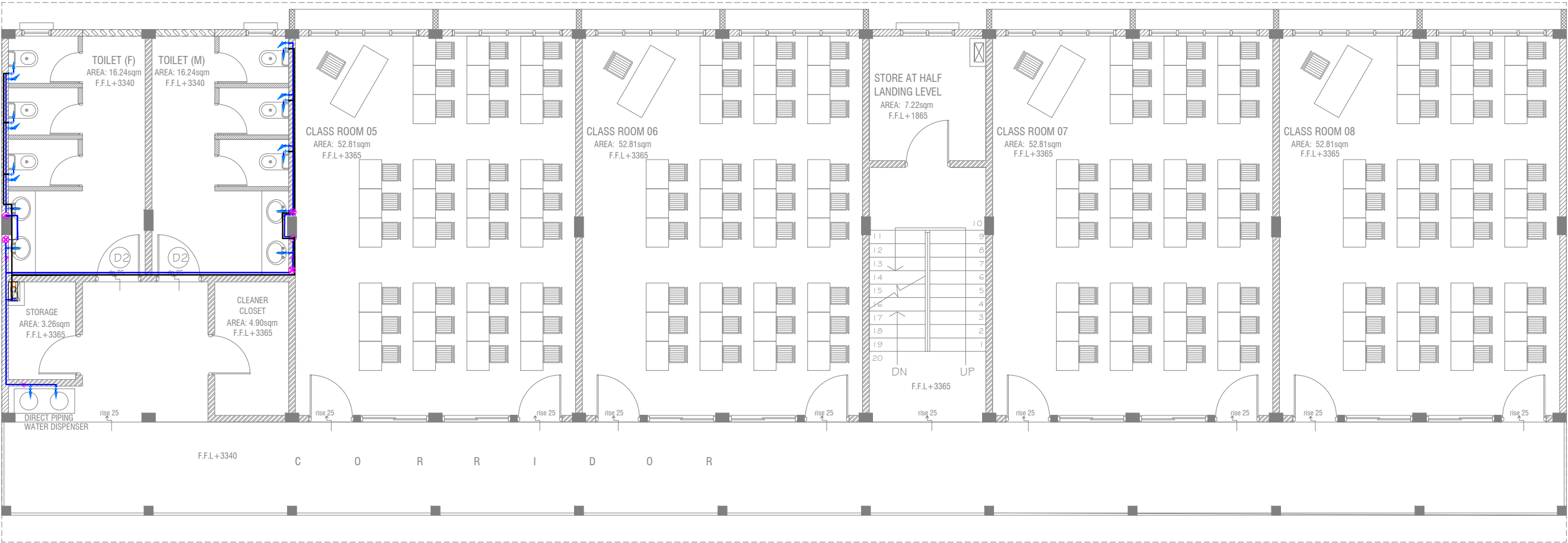
Project Number: RI/2020/006
Date: April 2021
Architect: Mariyam Trisha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Mariyam Leevan Jaleel
Services: Aishath Ahmed
Interior: -



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

Title: Ground Floor
Plumbing Layout
Page: PL 01-/02



FIRST - SECOND 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

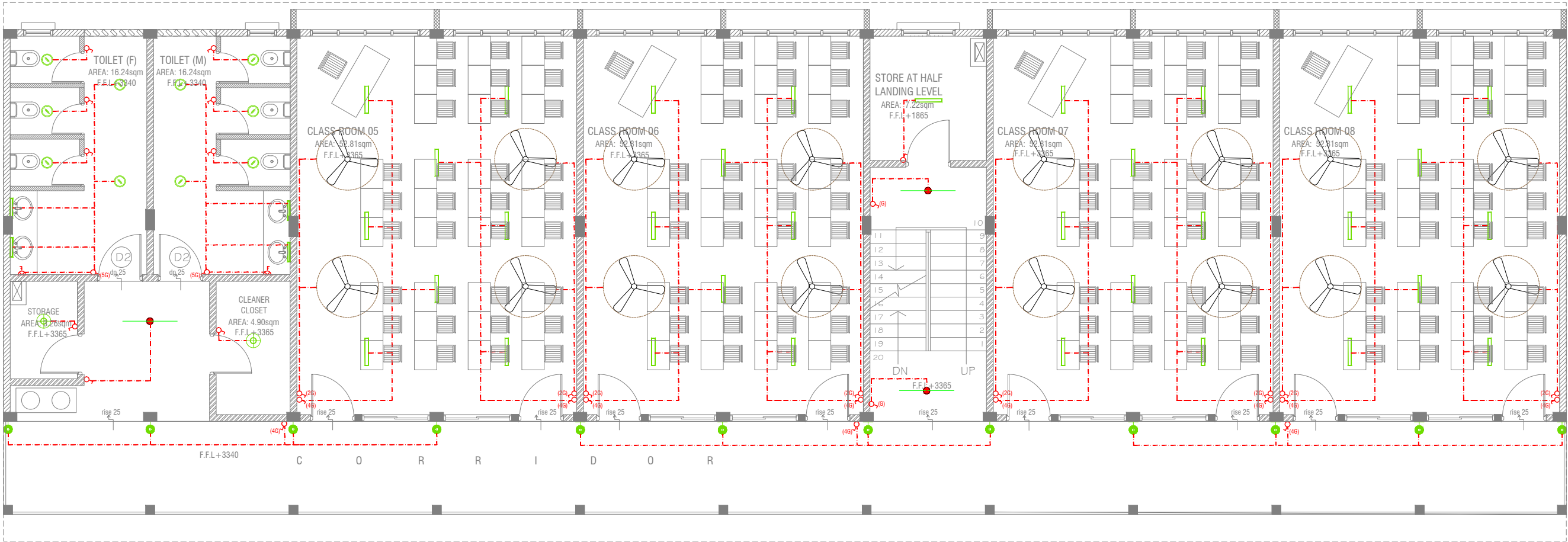
Sn.Hithadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

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

Rev no	Date
-	-
-	-
-	-
-	-

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FIRST - SECOND 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
- EXHAUST

CL2 LED TUBE LIGHT WITH OPAL CASING



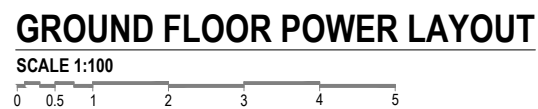
NOTE:











- 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

Sn.Hithadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Rev no	Date
1	1
2	2
3	3
4	4
5	5

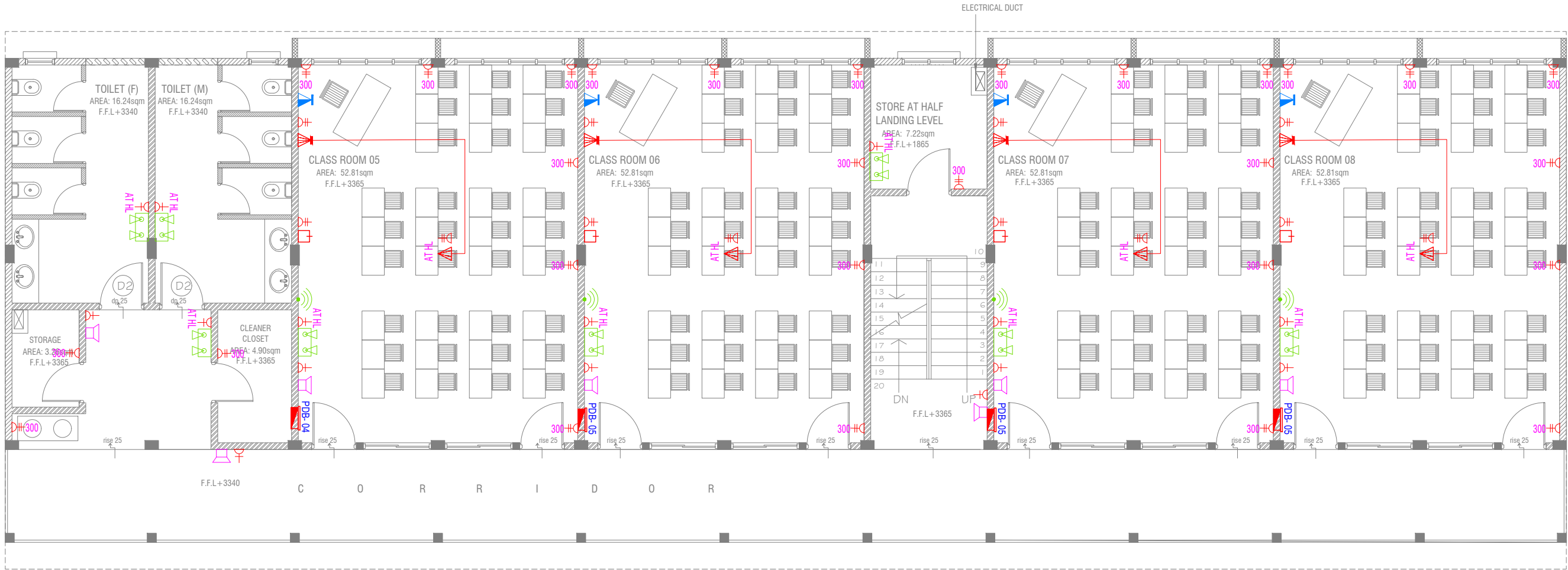
Project Number: RI/2020/006
Date: April 2021
Architect: Mariyam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Mariyam Leevan Jaleel
Services: Aishath Ahmed
Interior: -



- ### LEGEND
- | | |
|---------------------------------------------------------------------------------------|------------------------------------|
|  | TELEPHONE OUTLET (RJ11, CONNECTOR) |
|  | 13A POWER OUTLET |
|  | 13A TWIN SOCKET |
|  | HDMI,VGA & RAC AV SOCKET |
|  | DISTRIBUTION BOX |
|  | SPEAKERS |
|  | HDMI,VGA & RAC AV TWIN SOCKET |
|  | TWIN COMPUTER NETWORK OUTLET |
|  | DATA POINT |
|  | TWO GANG / TV SOCKET |

- ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB
- SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

- TO CHECK IF THE EXISTING MAIN PANEL BOARD CAN CATER THE PROPOSED BUILDING, IF NOT, 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



FIRST - SECOND 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

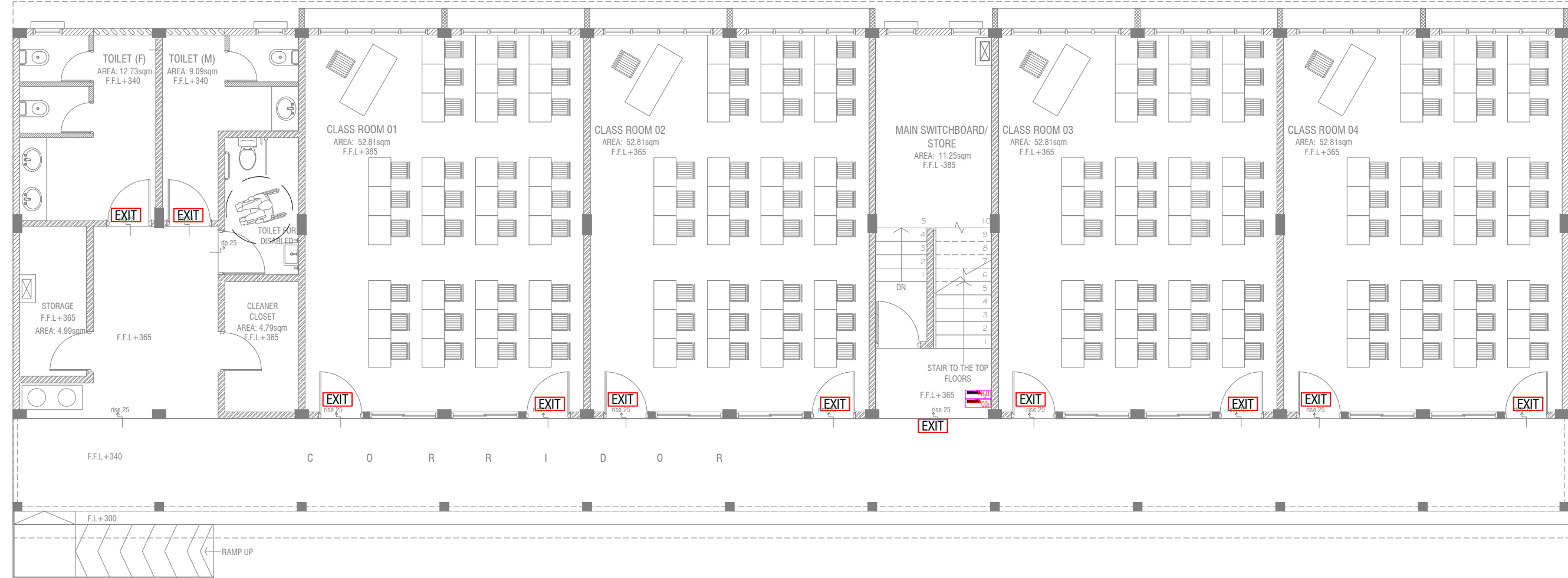
SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

TO CHECK IF THE EXISTING MAIN PANEL BOARD CAN CATER THE PROPOSED BUILDING, IF NOT, 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

Sn.Hithadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

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

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



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)

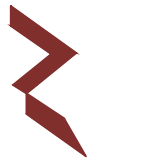
- 1.ALL PIPES SHOULD BE GALVANIZED,SCHEDULE 40.
2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
3. ALL SUPPORT/BACKET SHALL BE HOT DIPPED GALVANIZED TO 100MM
- 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

-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

Sn.Hithadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006
Date: April 2021
Architect : Maryam Irasha Shareef
Engineer : Mohamed Muthalib Waleed
Drawn by : Maryam Leeyan Jaleel
Interior : -

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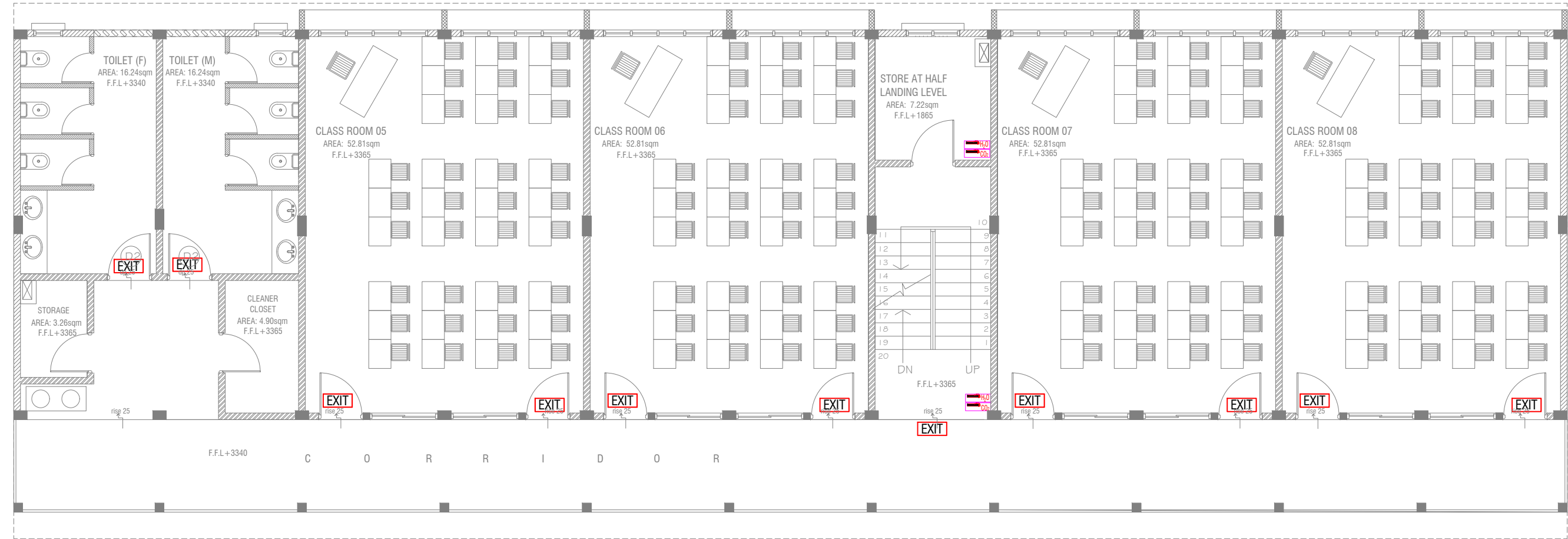
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3rd floor, H. Azum, Ammeenemagu, Male'

Title: Ground Floor
FDP Layout

Page: FDP 01-02

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FIRST - SECOND 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/BRAKET 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

Sn.Hithadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: April 2021	-	-
Architect : Mariyam Irasha Shareef	-	-
Engineer : Mohamed Muththailb Waleed	-	-
Drawn by : Mariyam Leevan Jaleel	-	-
Services : Aishath Ahmed	-	-
Interior : -	-	-



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Title: First - Second Floor
FDP Layout

Page: FDP 02-02

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Technical drawing of a circular part. It features two concentric circles. The outer circle is labeled with a diameter of $\varnothing 1150$. The inner circle is labeled with a diameter of $\varnothing 1000$. There are 16 small circles (holes) arranged in a ring between the two main circles. A vertical dashed line is shown on the left side of the drawing.

SCALE 1:20



Technical drawing of a rectangular water table. The drawing shows a cross-section of the structure with the following dimensions and details:

- Overall Dimensions:**
 - Overall width: 1150
 - Overall height: 1500
- Internal Dimensions and Spacing:**
 - Internal width: 1000
 - Internal height: 1300
 - Top and bottom reinforcement spacing: 150
 - Side reinforcement spacing: 75
- Reinforcement Details:**
 - Top and bottom reinforcement: T10 @ 150 C/C T/B
 - Side reinforcement: T10 @ 150 C/C T/B
- Notes:**
 - to be decided at site, water table must be available for at least 1500mm

Technical drawing of a cross-section of a concrete slab. The drawing shows a rectangular slab with a total width of 1000 and a total height of 150. The bottom reinforcement is located at a depth of 75 from the bottom edge. The top reinforcement is located at a depth of 50 from the top edge. The slab is supported by a base of 900. The label 'SIKA SEALANT' points to the top edge of the slab.

- 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

SCALE 1:20



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Page: Detail 01-01

Sn.Hithadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: April 2021	0001	01-04-2021 10:00:00 AM
Architect : Manyam Irasha Shareef	0002	01-04-2021 10:00:00 AM
Engineer : Mohamed Muthalib Waleed	0003	01-04-2021 10:00:00 AM
Drawn by : Manyam Laveen Jaleel	0004	01-04-2021 10:00:00 AM
Services : Alshath Ahmed	0005	01-04-2021 10:00:00 AM
Interior : -	0006	01-04-2021 10:00:00 AM

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