

Proposed 12 Classroom at
L.Fonadhoo AEC School
(03 Storey)

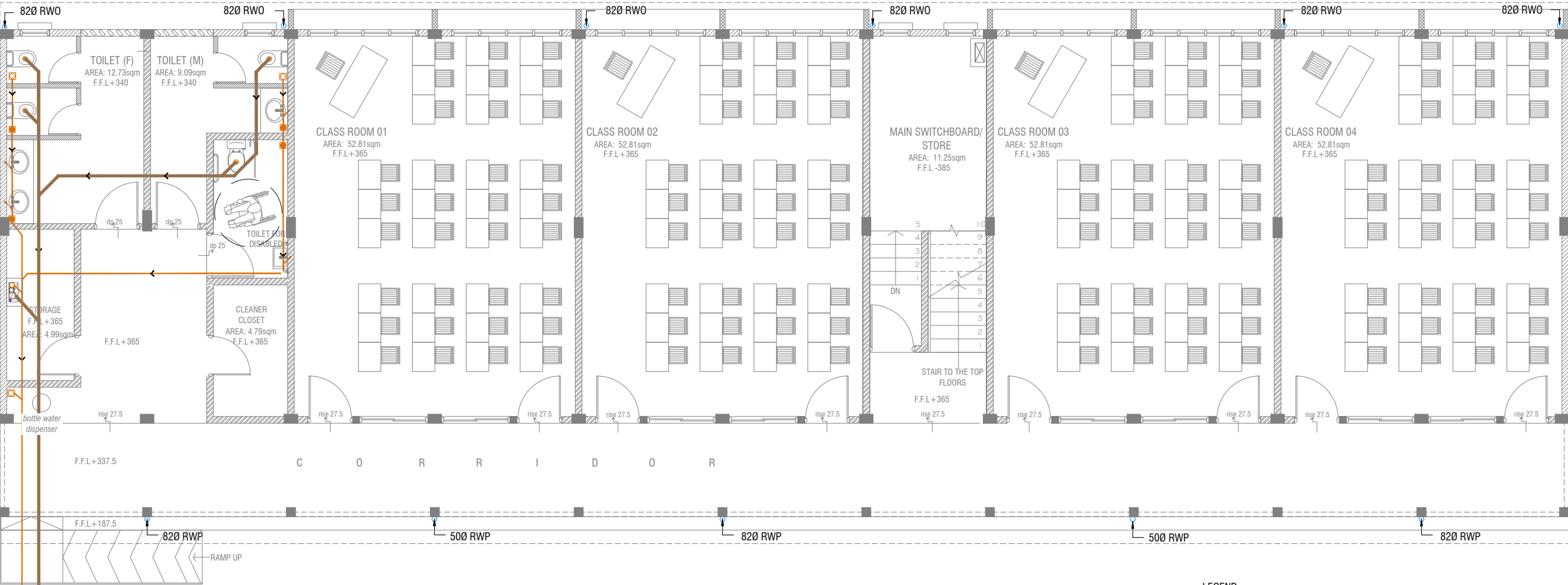
SERVICES DRAWINGS
Client: Ministry of Education



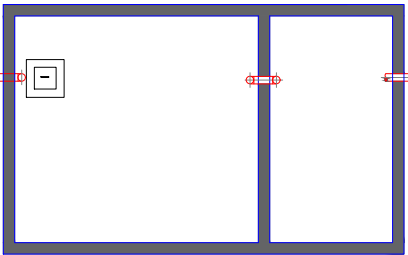
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3rd floor, H. Azum, Arneeneemagu, Male'

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CONNECTED TO PROPOSED SEPTIC TANK



- 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

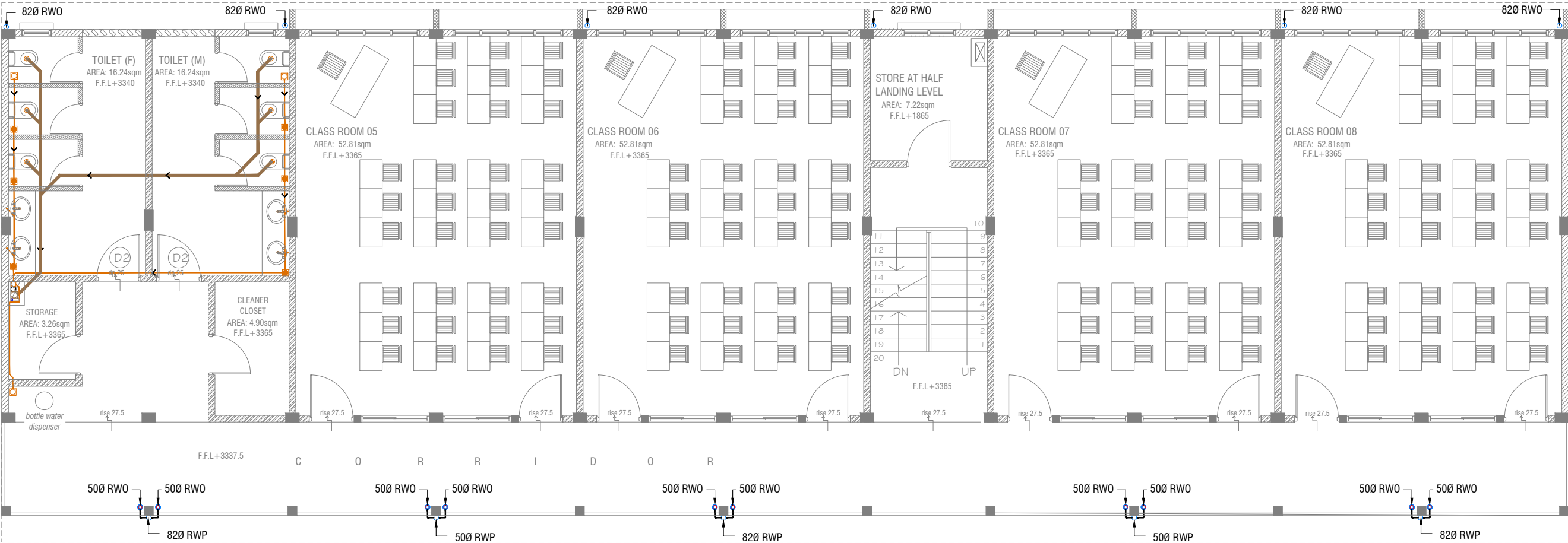
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L.Fonadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

| Rev no | Date |
|--------|------|
| 1 | |
| 2 | |
| 3 | |
| 4 | |

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



FIRST - SECOND FLOOR DRAINAGE LAYOUT

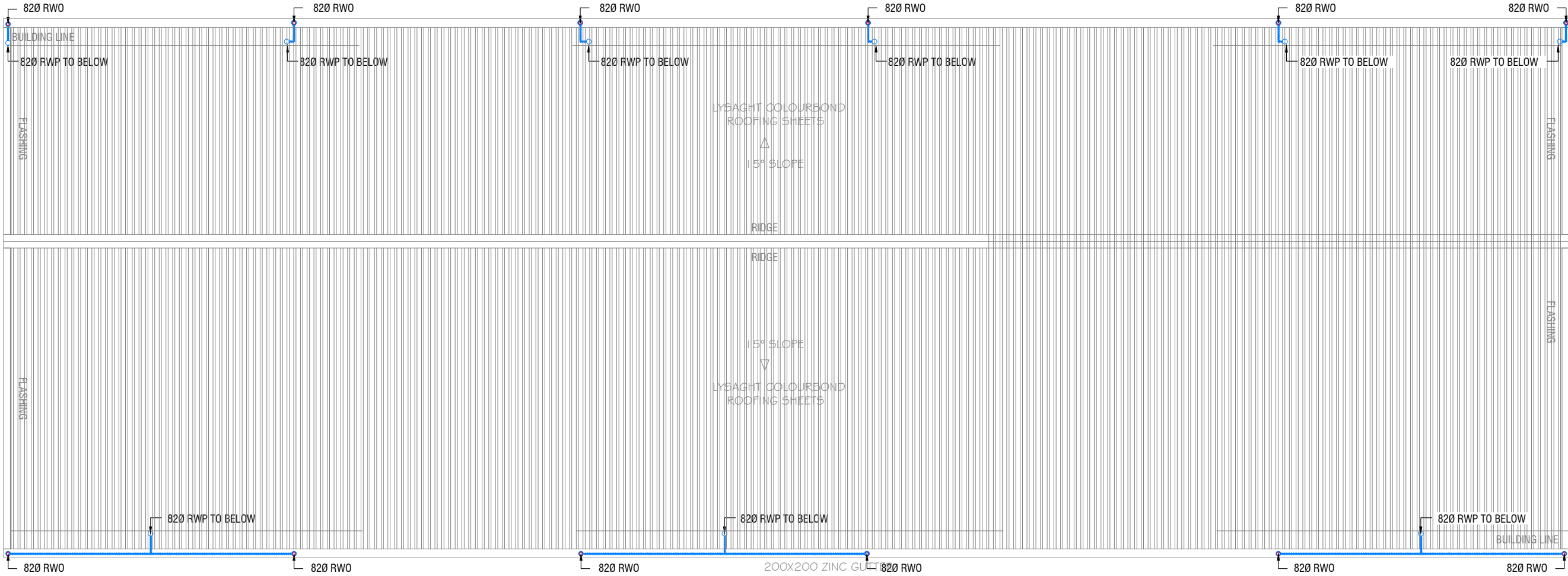


- LEGEND
- FG FLOOR GULLY
 - FD FLOOR DRAIN
 - WM 40 Ø STUB FOR WASHING MACHINE
 - SP 110 Ø SOIL PIPE
 - SVP 110 Ø SOIL VENT PIPE
 - WP 82 Ø WASTE PIPE
 - WVP 82 Ø WASTE VENT PIPE
 - WP 40 Ø WASTE PIPE
 - RWP 82/50 Ø RAINWATER PIPE
 - RWO 82/50 Ø DRAIN OUTLET
 - CD 25 Ø DRAIN PIPE
 - MHVP 50 Ø MANHOLE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













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

L.Fonadhoo School - 12 Classroom (03 Storey)
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| | | |
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| Date: January 2021 | 1 | 1 |
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| Engineer: Mohamed Muthalib Valeed | 3 | 3 |
| Drawn by: Maryam Leevan Jaleel | 4 | 4 |
| Services: Aishath Ahmed | 5 | 5 |
| Interior: - | 6 | 6 |

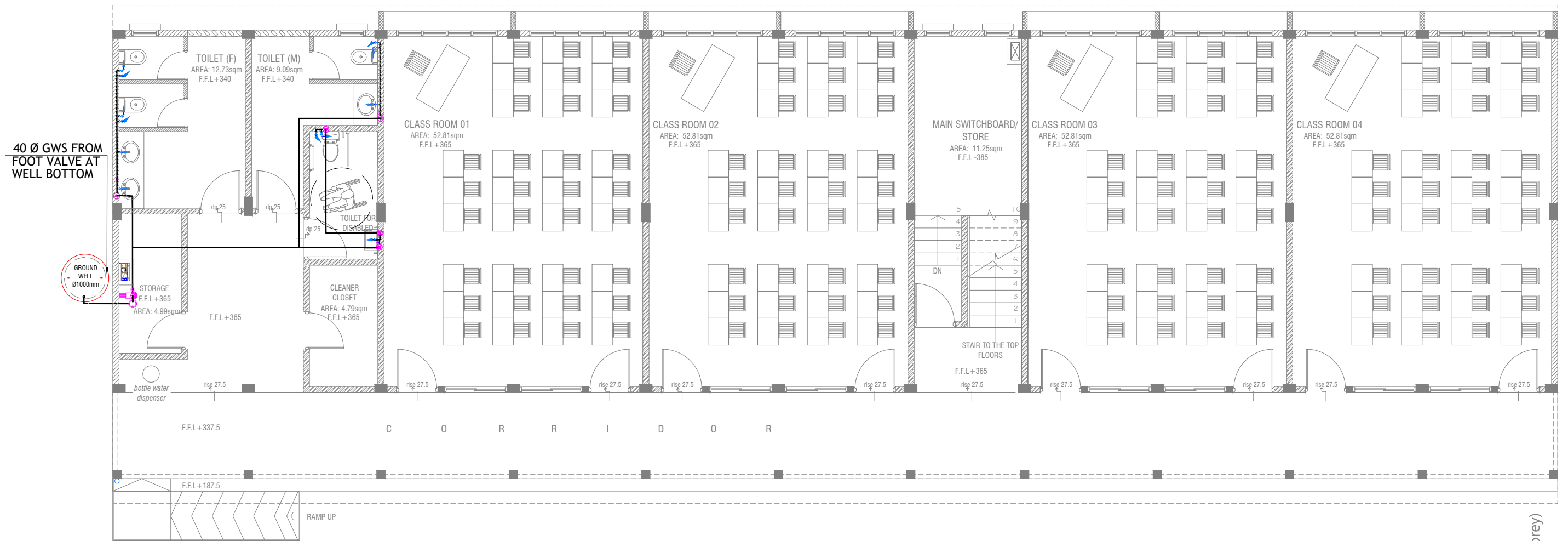


ROOF DRAINAGE LAYOUT
SCALE 1:100

- 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

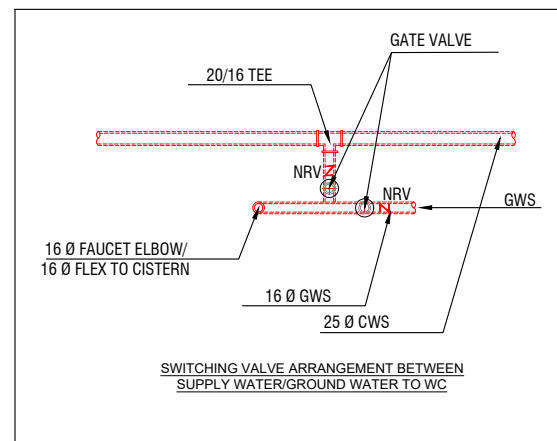
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| Drawn By: Maryam Leevan Jaleel | -- | ----- |
| Services: Aishath Ahmed | -- | ----- |
| Interior: - | -- | ----- |



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

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Date: January 2021

Architect: Maryam Trasha Shareef

Engineer: Mohamed Muthalib Waleed

Drawn by: Maryam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Rev no

Date

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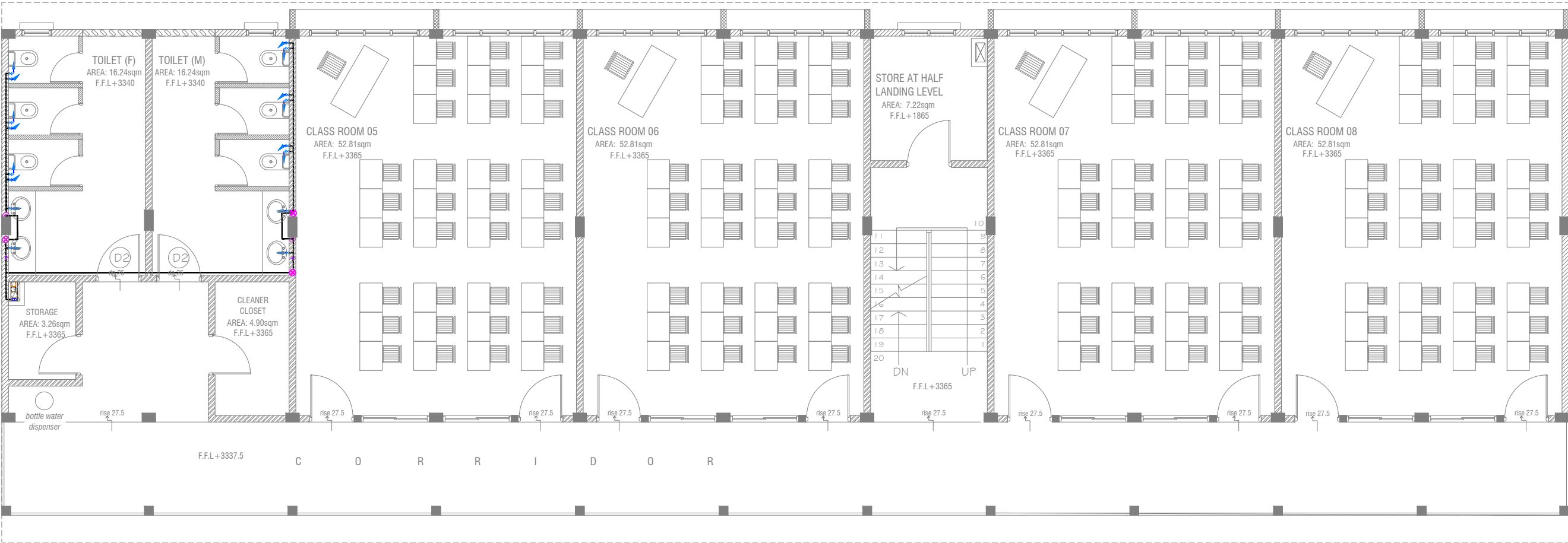
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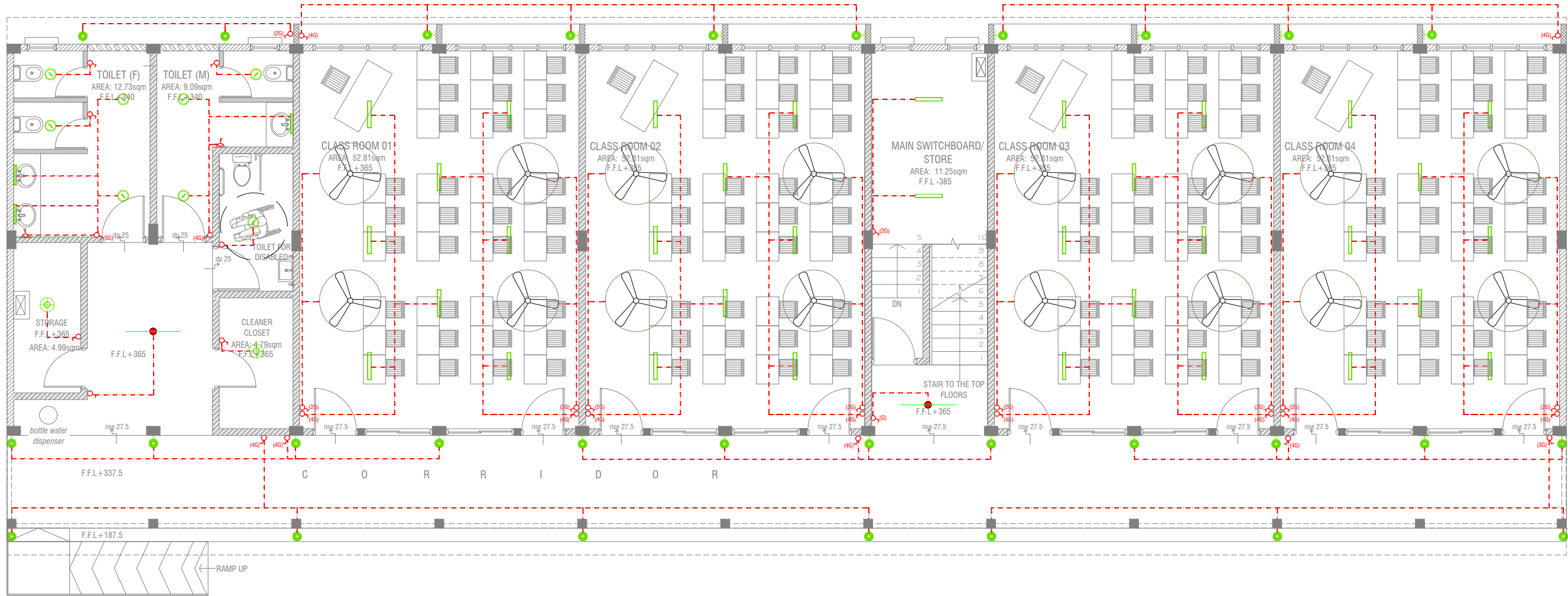


- LEGEND**
- 16 Ø COLD WATER SUPPLY TO CISTERN
 - 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
 - 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
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 - HWS HOT WATER SUPPLY
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| Drawn by: Maryam Leevan Jaleel | 4 | 4 |
| Services: Aishath Ahmed | 5 | 5 |
| Interior: - | 6 | 6 |



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

L.Fonadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

| Rev no | Date |
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| 1 | 10/01/2021 |
| 2 | 10/01/2021 |
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| 4 | 10/01/2021 |
| 5 | 10/01/2021 |

Project Number: RI/2020/006

Date: January 2021

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Drawn by: Maryam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

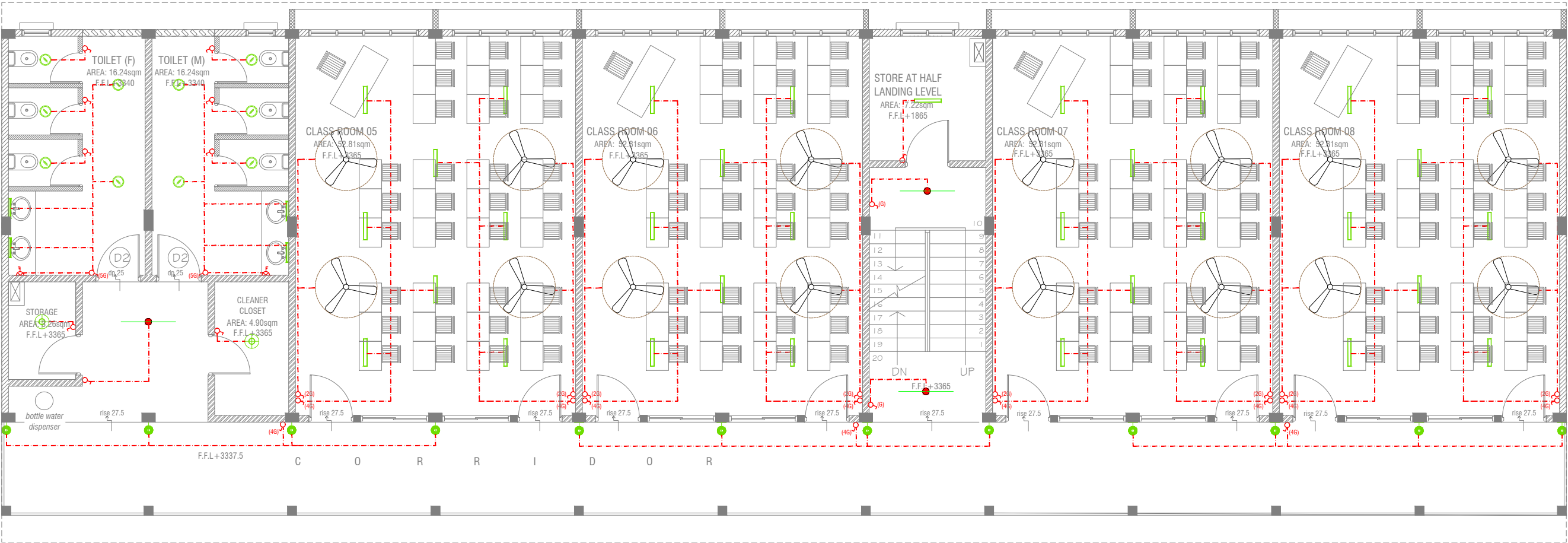


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3rd floor, H. Azum, Ameenemagu, Male'

Title: Ground Floor
Lighting Layout

Page: EL 01-02



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:

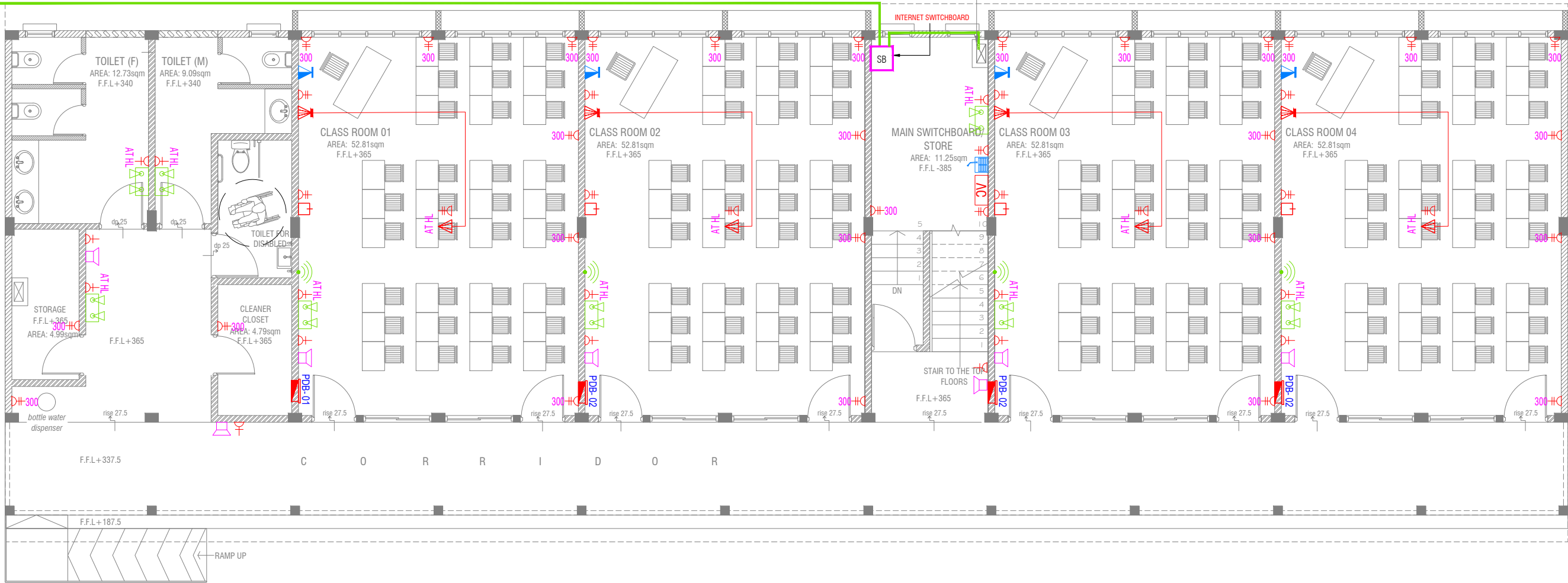
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Architect: Maryam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Maryam Leevan Jaleel
Services: Aishath Ahmed
Interior: -

PVC DUCT FOR DATA CABLE LEAD IN BELOW GR.SLAB



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
- EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

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

L'Fonadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect: Mariyam Irasha Shareef

Engineer: Mohamed Muththalib Waleed

Drawn by: Mariyam Leevan Jaleel

Services: Alshath Ahmed

Date

Rev no

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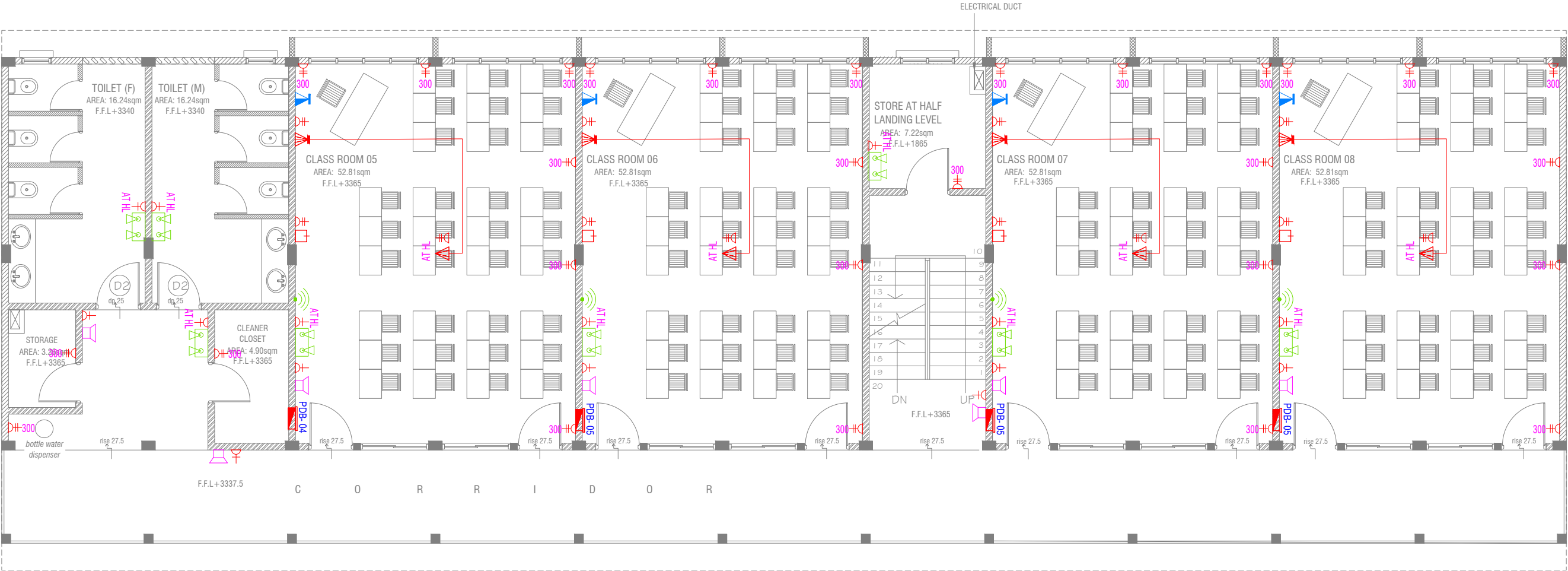
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FIRST - SECOND FLOOR POWER LAYOUT

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
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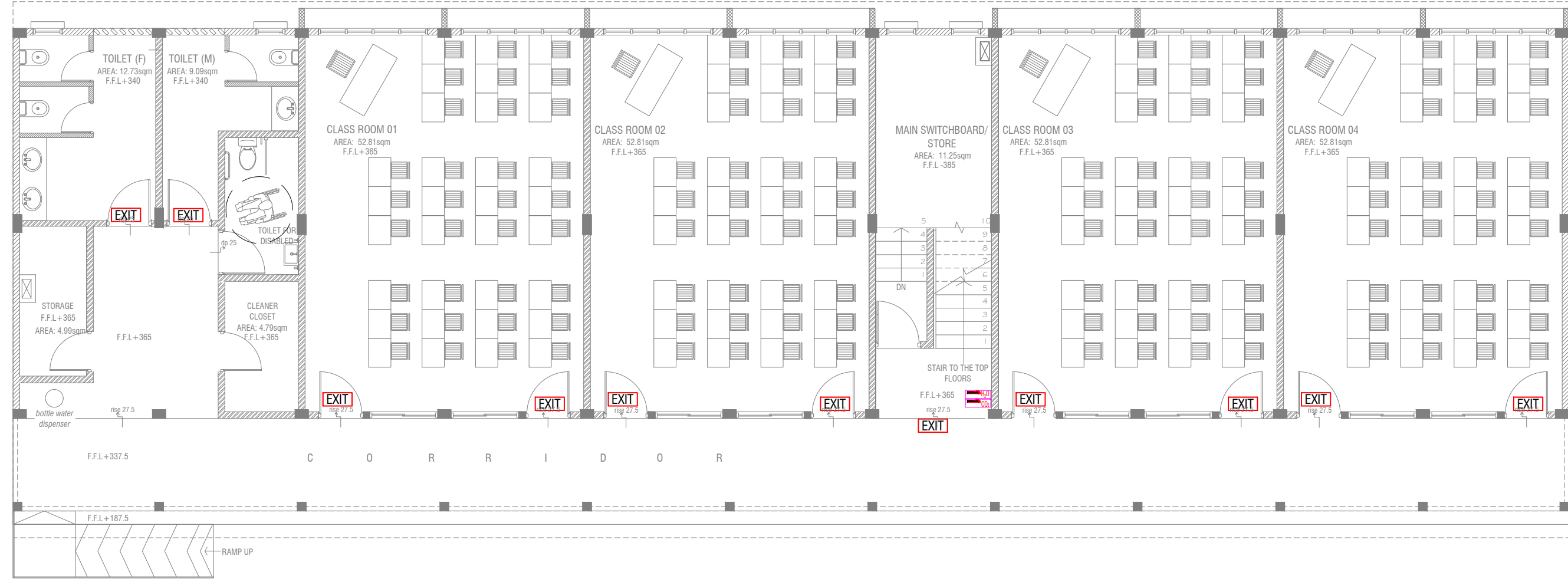
ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

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

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Drawn by: Maryam Leevan Jaleel
Services: Aishath Ahmed
Interior: -



GROUND 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/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

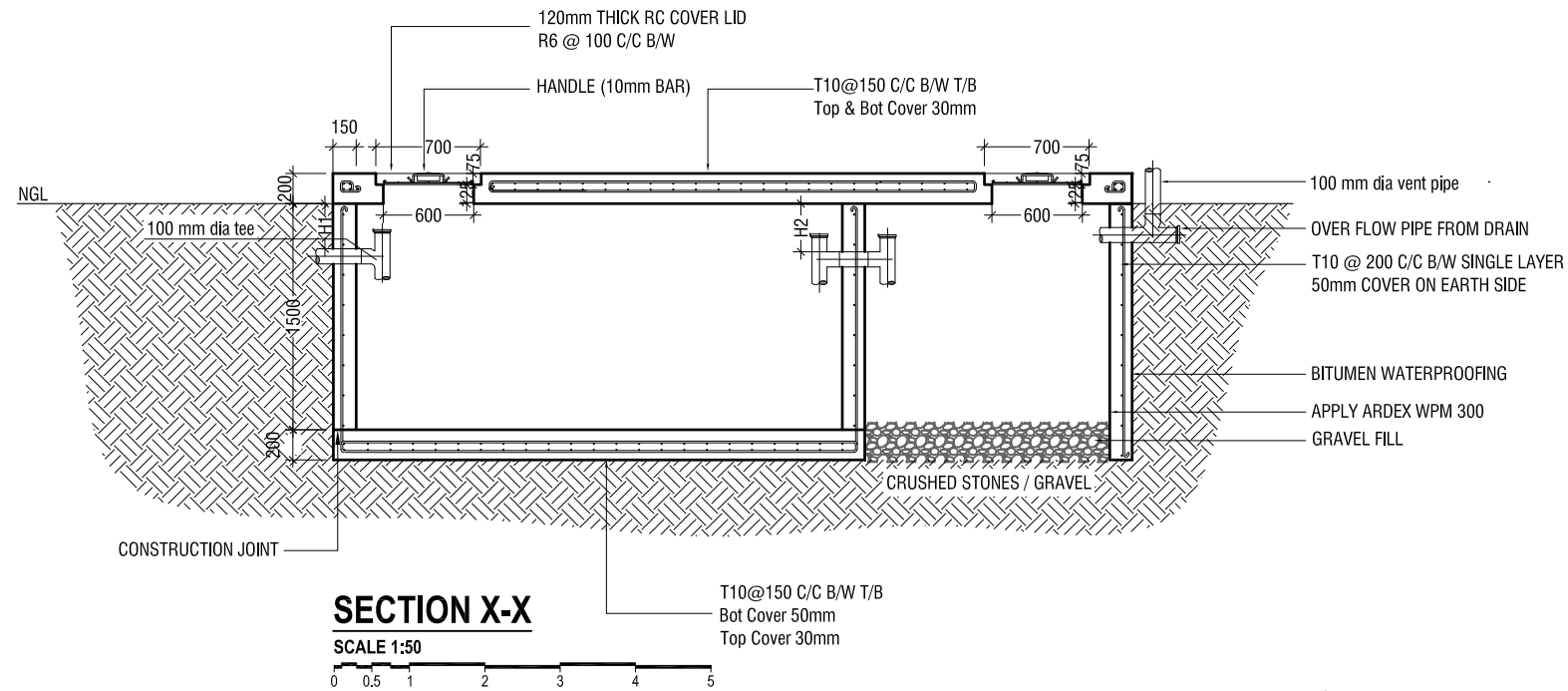
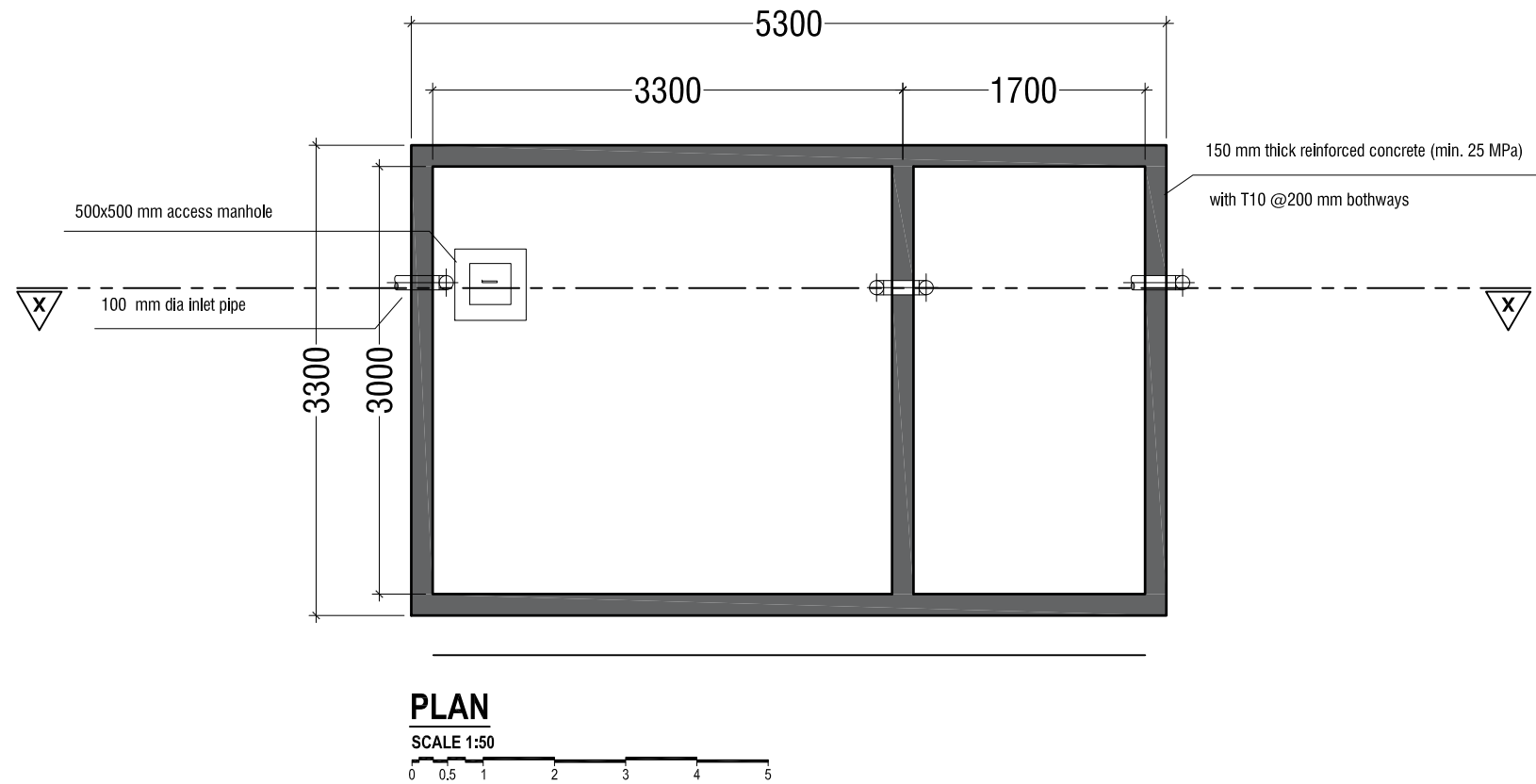
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Engineer : Mohamed Muthalib Waleed
Drawn by : Maryam Leevan Jaleel
Interior : -

SEPTIC TANK DETAIL

SCALE 1:50



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

L.Fonadhoo School - 12 Classroom (03 Storey)
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Architect: Maryam Irasha Shareef

Engineer: Mohamed Muhtalib Walleed

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Services: Aishath Ahmed

Interior: -

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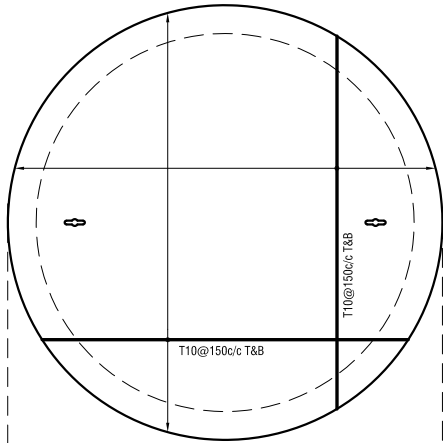
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3rd floor, H. Azumi, Ameenemoguu, Male'

Title: Septic Tank Detail

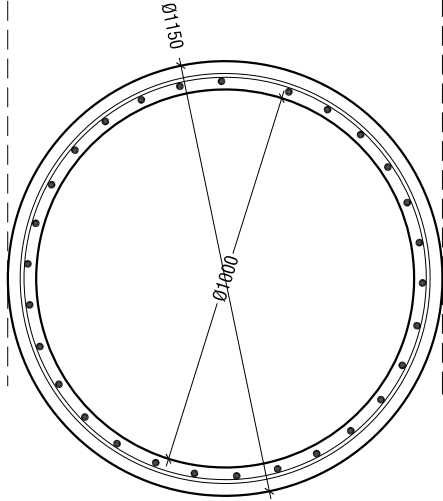
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WATER TANK WALL TOP & BOTTOM SLAB



WATER TANK WALL REINF.

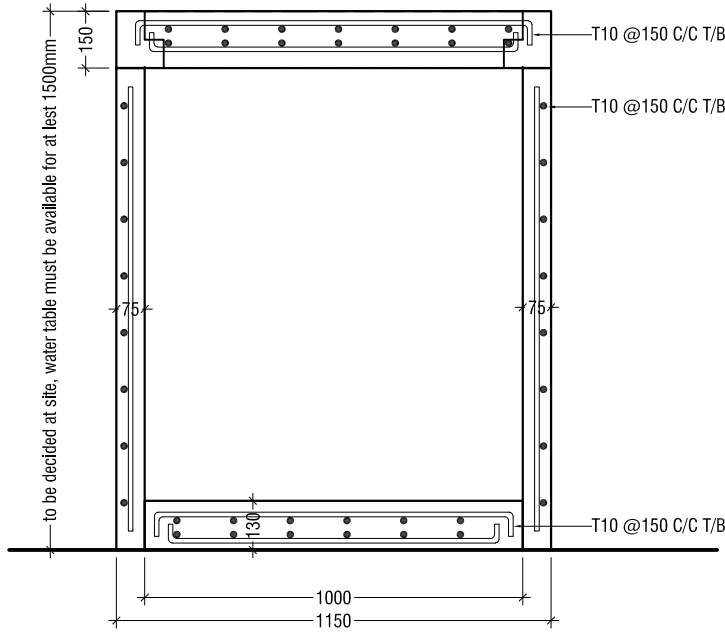


WATER TANK DETAILS

SCALE 1:20

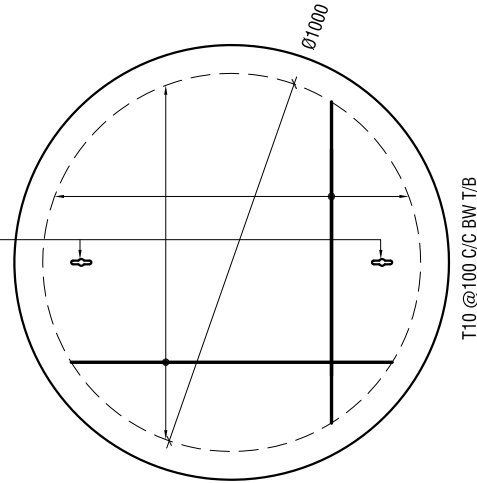


WATER TANK SECTION



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

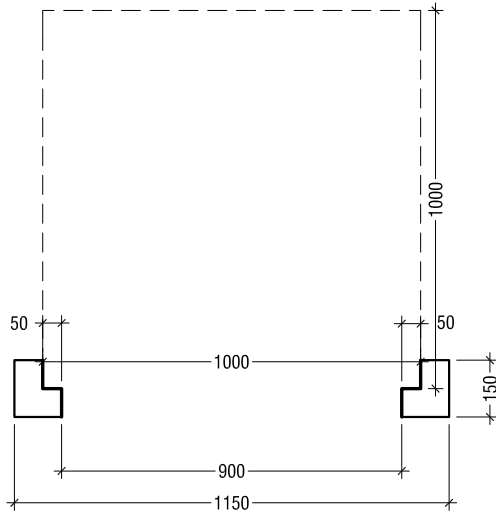
PLAN



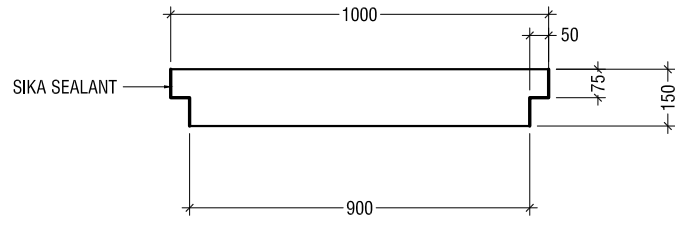
NOTE:

- 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

ELEVATION



SECTION



WATER TANK LID DETAILS

SCALE 1:20



L.Fonadhoo School - 12 Classroom (03 Storey)
Client: Ministry of Education

| Project Number | Rev no | Date |
|--------------------------------------|--------|------|
| RY/2020/006 | --- | --- |
| Date: January 2021 | --- | --- |
| Architect : Mariyam Irasha Shareef | --- | --- |
| Engineer : Mohamed Muthirallo Waleed | --- | --- |
| Drawn by : Mariyam Leevan Jaleel | --- | --- |
| Services : Alshath Ahmed | --- | --- |
| Interior : - | --- | --- |



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w : www.ryan.com.mv
3rd floor, H. Azum, Ameenemoguu, Male'

Title: Ground Water Well
Detail

Page: Detail 02-02