

# Proposed Multipurpose Hall & 8 Classroom Building at Adh.Maamigili, Atoll Madharusaa School

SERVICES *DRAWINGS*

Client: Ministry of Education



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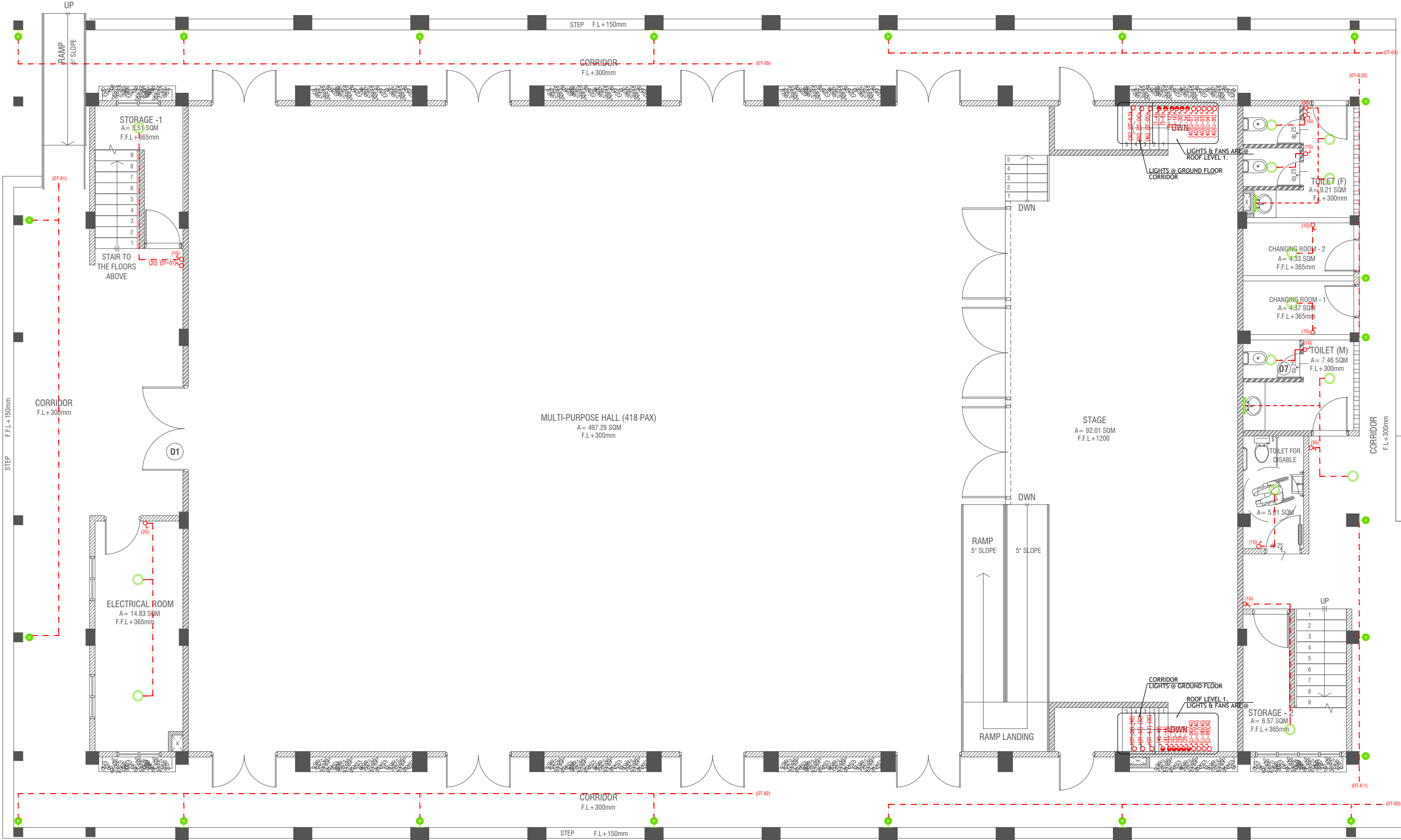
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3rd floor, H. Azum, Ameenemagu, Male'

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# GROUND FLOOR LIGHTING LAYOUT

SCALE 1:100



## LEGEND

- 4 x 55W PLL Lamps  
(Wire guard, Polycarbonate diffuser, Emergency and dimming versions)
- LED CEILING DOWN LIGHT ( 18W)
- CEILING FAN (52" - 54")
- 40W (IP 65) OUT DOOR WALL LIGHT
- MIRROR LIGHT (7W LED LIGHT)

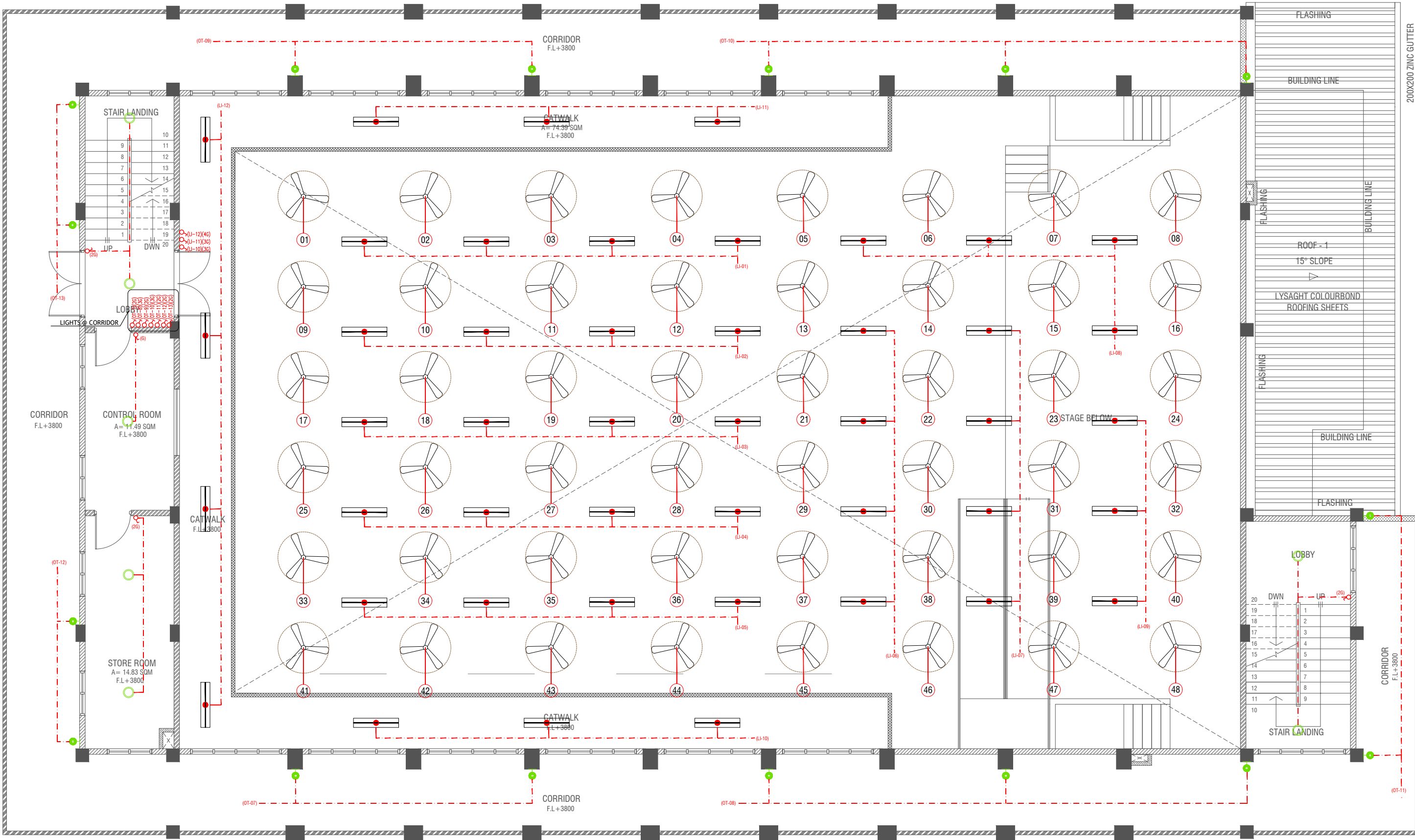
- LIGHT SWITCH
- CEILING FAN SWITCH (4G)
- CIRCUIT LINE
- SWITCHING LINE

## 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

## NOTE:

- THE DOWNROD OF THE FANS IN THE HALL SHOULD BE NOT LESS THAN 60"



## FIRST FLOOR LIGHTING LAYOUT

SCALE 1:100



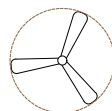
### LEGEND



4 x 55W PLL Lamps  
(Wire guard, Polycarbonate diffuser, Emergency and dimming versions)

C2

LED CEILING DOWN LIGHT ( 18W)



CEILING FAN (52" - 54")

WPD

40W (IP 65) OUT DOOR WALL LIGHT

ML

MIRROR LIGHT (7W LED LIGHT)



LIGHT SWITCH



CEILING FAN SWITCH



CIRCUIT LINE



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

### NOTE:

- THE DOWNROD OF THE FANS IN THE HALL SHOULD BE NOT LESS THAN 60"

200X200 ZINC GUTTER

Adh.Maamigili, Atoll Madharusaa School Multipurpose Hall, 7 Classroom & AV Room

Client: Ministry of Education

Project Number: B/2020/006  
Date: March 2021  
Architect: Fatimah Leena Jaleel  
Engineer: Mohamed Muthaib Valsad  
Services: Architectural, Structural, Mechanical, Electrical, Plumbing, Fire, and Safety  
Interior: -



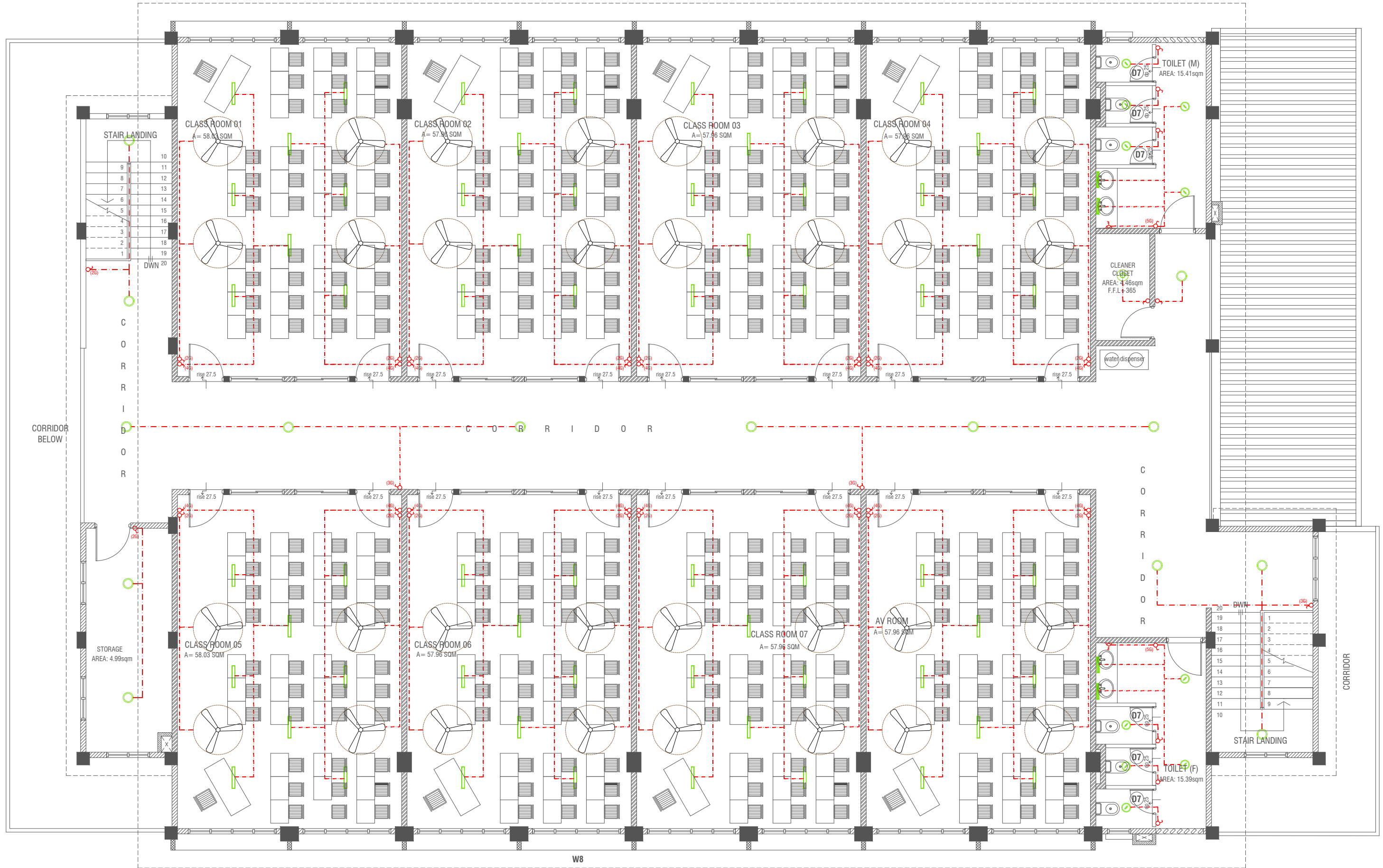
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3rd floor, H. Azam, Arvenemogga, Male'

Title: 1st Floor Lighting Layout

Page: EL - 02/03

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## SECOND FLOOR LIGHTING LAYOUT

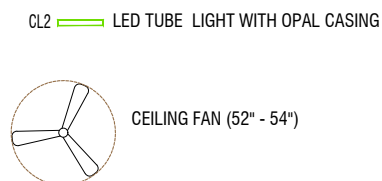
SCALE 1:100



### LEGEND

- WP 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



### 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.Maamigili, Atoll Madharusaa School Multipurpose Hall, 7 Classroom & AV Room  
Client: Ministry of Education

Project Number: B/2023/006  
Date: May/2023  
Architect: Fatimah Leena Jaleel  
Engineer: Mohamed Muthaib Valsad  
Services: Fatimah Leena Jaleel  
Interior: Ahamd Ahmed

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3rd floor, H. Azam, Ammanmaga, Malé

Title: Second Floor Lighting Layout  
Page: EL - 03/03

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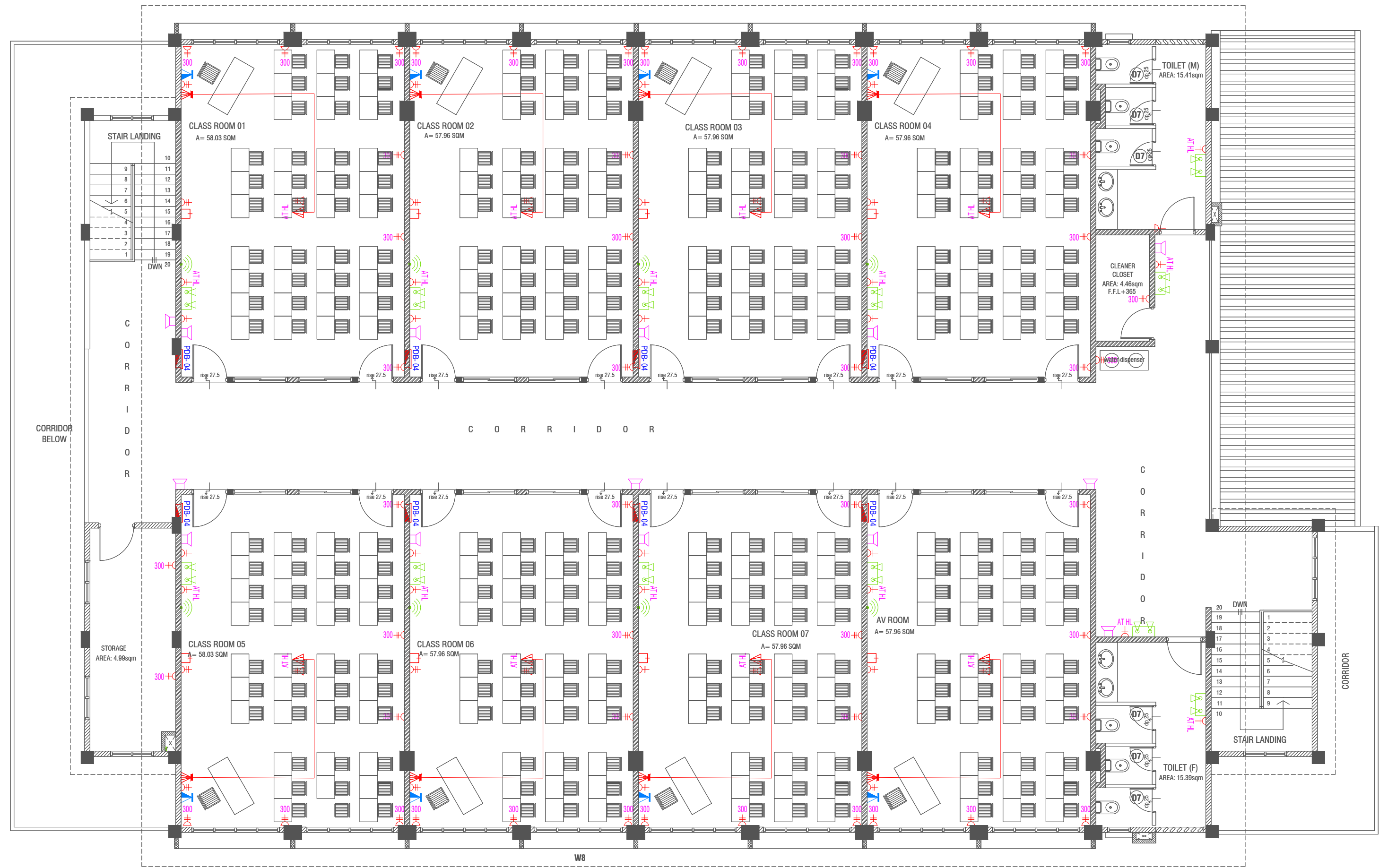






SECOND FLOOR POWER LAYOUT

SCALE 1:100



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 OUTLET

- 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

NOTE:

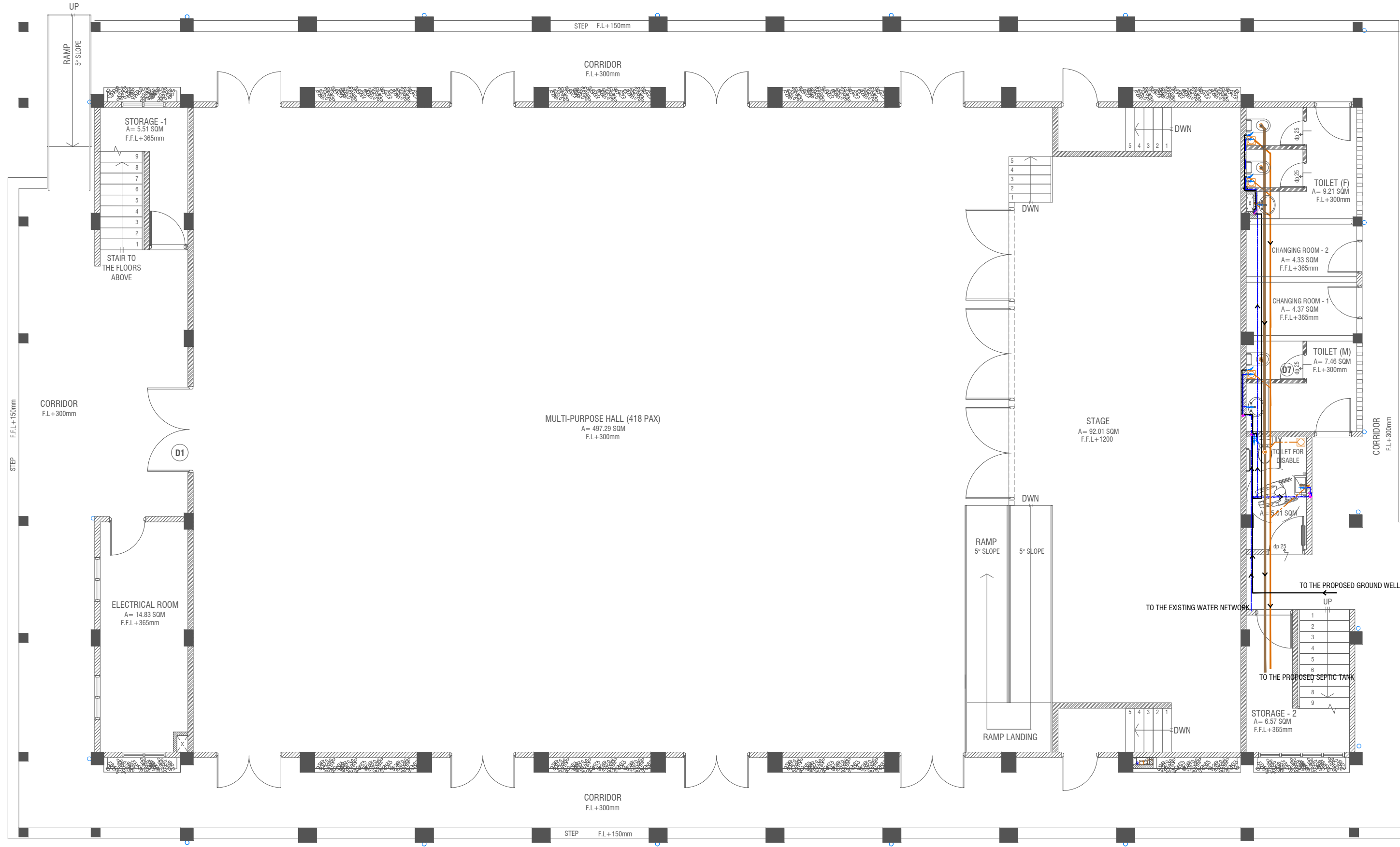
- ALL WIRING TO BE OF APPROVED STANDARDS
- POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
- SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
- KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
- AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

Adh.Maamigili, Atoll Madharusaa School Multipurpose Hall,7 Classroom & AV Room  
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1	2023/03/03
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# GROUND FLOOR PLUMBING & DRAINAGE LAYOUT

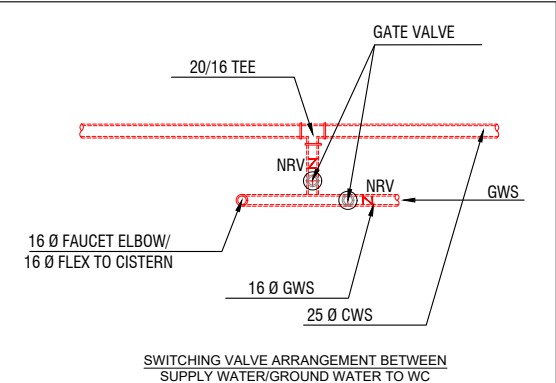
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## LEGEND

- FC

16Ø COLD WATER SUPPLY FAUCET / WALL TAP/SINK
- 16Ø COLD WATER SUPPLY TO CISTERN
- GV

GATE VALVE
- RISE IN WALL
- DROP IN WALL
- 32Ø COLD WATER SUPPLY PIPES RUNNING UNDERGROUND
- 25Ø COLD WATER SUPPLY PIPES RUNNING IN WALLS
- 25Ø COLD WATER SUPPLY PIPES RUNNING UNDERGROUND
- 25Ø COLD WATER SUPPLY PIPES RUNNING ABOVE FALSE CEILING
- FLOOR DRAIN
- FLOOR GULLY
- 11ØØ SOIL PIPE (CPVC PIPE)
- 82Ø WASTE PIPE (CPVC PIPE)
- 4ØØ WASTE PIPE (CPVC PIPE)
- 5ØØ WASTE PIPE (CPVC PIPE)
- 82Ø MANHOLE VENT PIPE (CPVC PIPE)
- BOTTLE TRAP
- GROUND WATER SUPPLY



**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.
- ALL COLD WATER PIPES SHOULD BE CPVC

**NOTE:**

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

**NOTE:**

- GROUND WATER WELL IS USED ONLY FOR FLUSHING, UNLESS FOR ANY OTHER PURPOSES, DUE TO THE ABSENCE OF SUPPLY WATER

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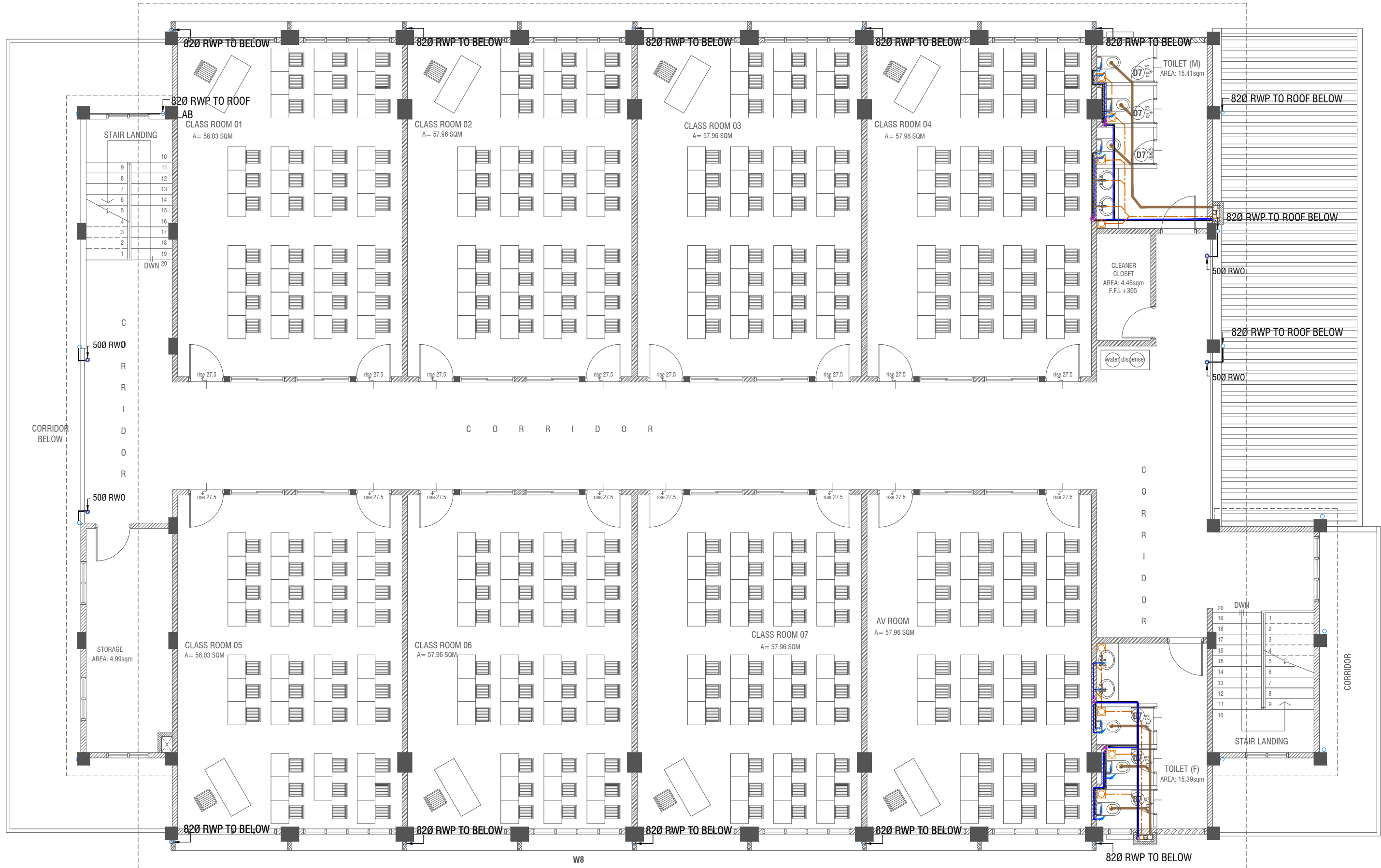
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Title: Ground Floor Plumbing & Drainage Layout  
Page: DR - 01/05

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SECOND FLOOR DRAINAGE LAYOUT

SCALE 1:100

- RWP 82/50 Ø RAINWATER PIPE
- RWO 82/50 Ø DRAIN OUTLET
- CD 25 Ø DRAIN PIPE
- MHVP 50 Ø MANHOLE VENT PIPE

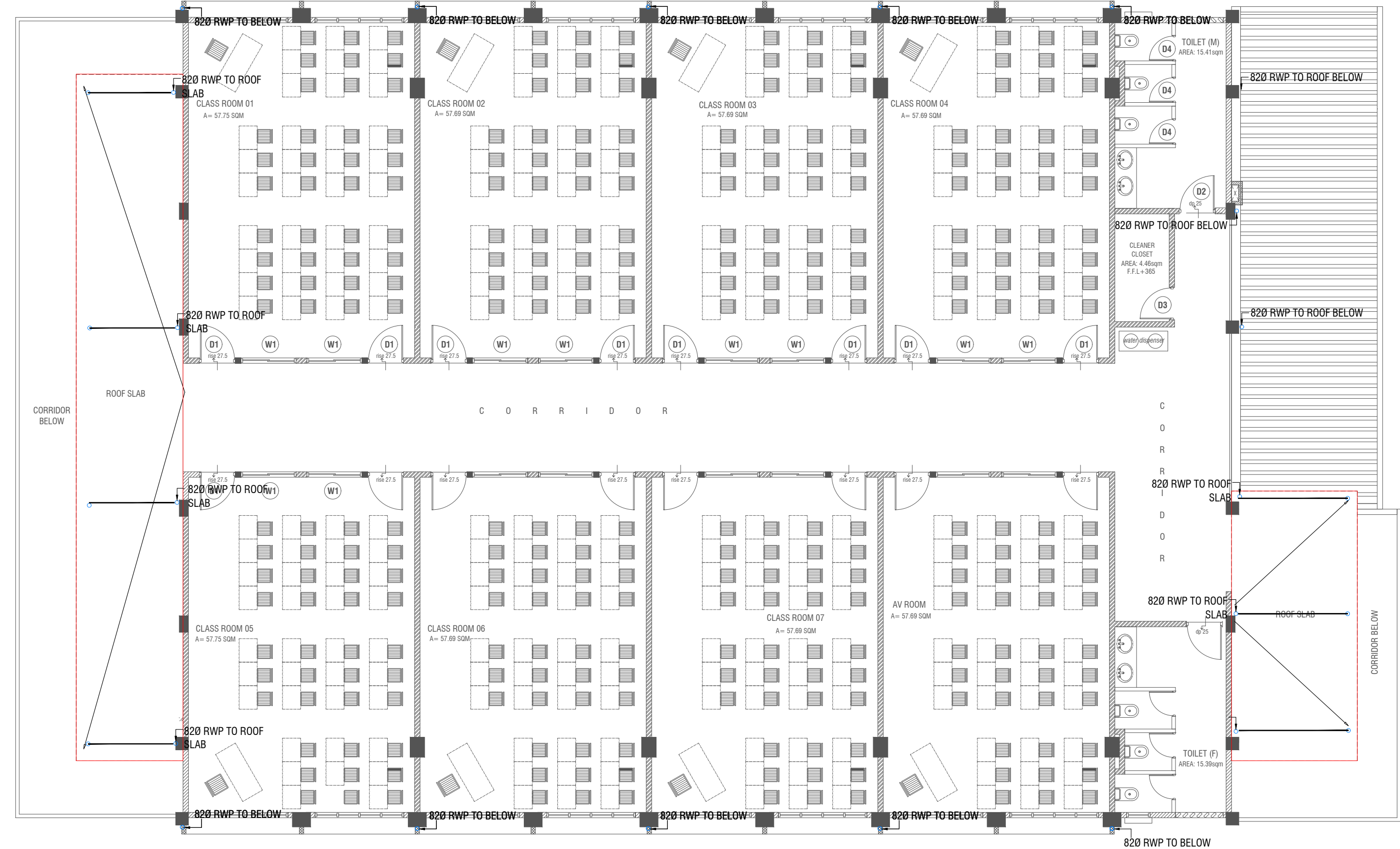
NOTE:  
- ALL RAINWATER PIPES TO BE AT GROUND LEVEL  
DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT

NOTE:  
- GROUND WATER WELL IS USED ONLY FOR FLUSHING, UNLESS FOR  
ANY OTHER PURPOSES, DUE TO THE ABSENCE OF SUPPLY WATER

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ROOF -1 DRAINAGE LAYOUT

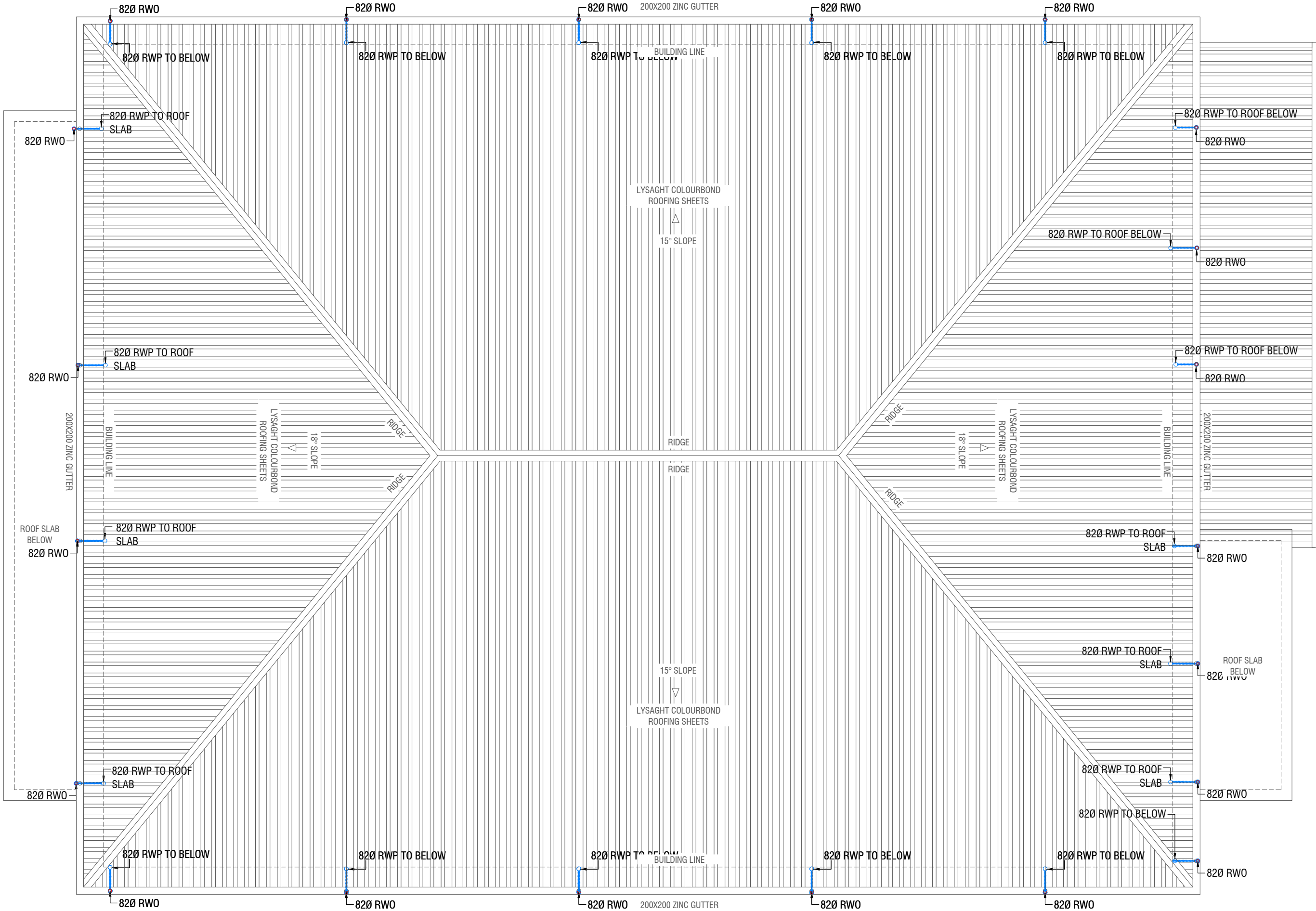


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## ROOF PLAN - 2 DRAINAGE LAYOUT

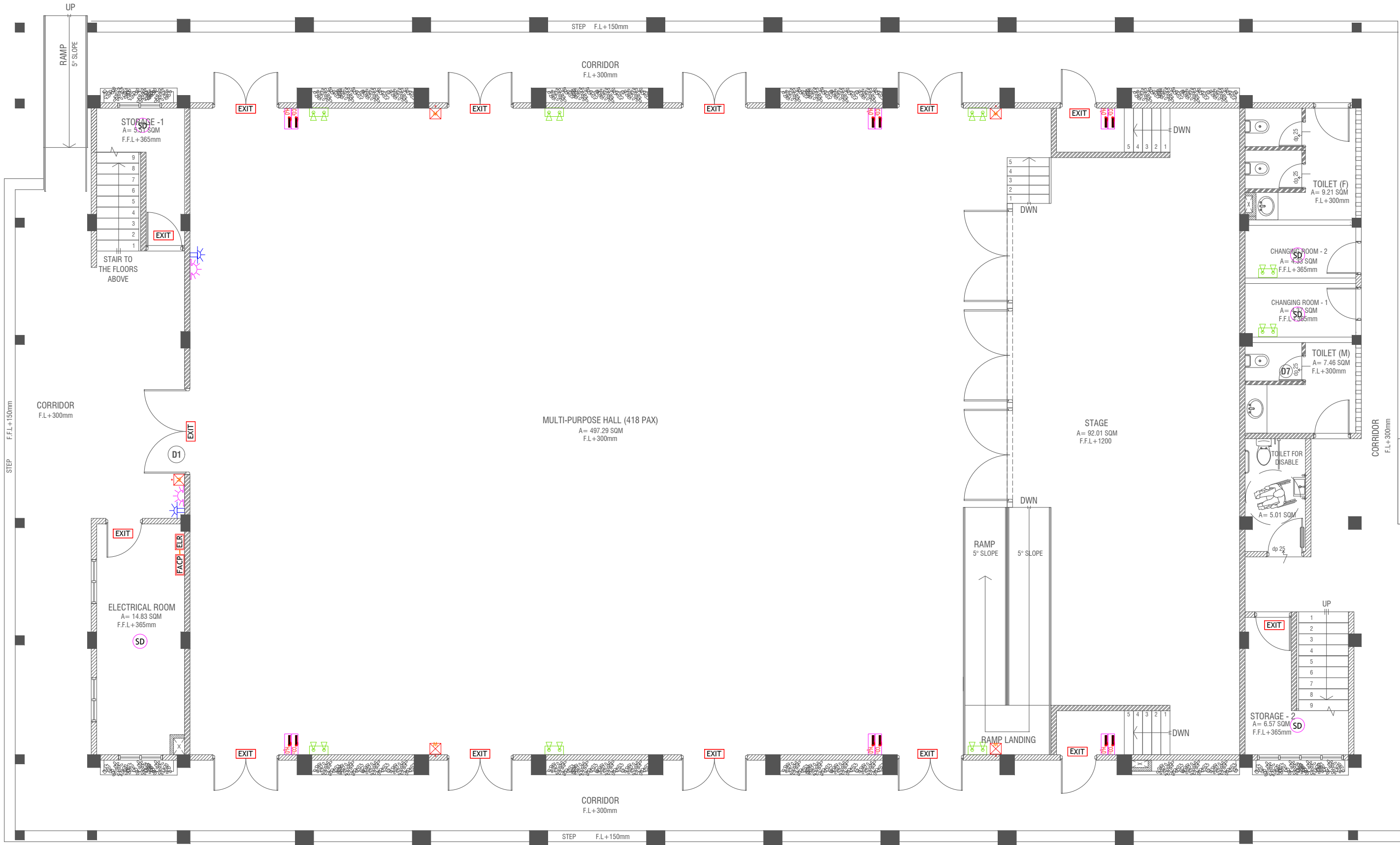
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0 0.5 1 2 3 4 5

- 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





GROUND FLOOR FDP LAYOUT

SCALE 1:100

- LEGEND
- SD SMOKE DETECTOR
  - HD HEAT DETECTOR
  - EXIT EXIT SIGN
  - EM EMERGENCY LIGHT

- CO<sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- WET CHEMICAL FIRE EXTINGUISHER (LOAD: 7.2KG)
- H<sub>2</sub>O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

- ELR END OF LINE RESISTANCE
- FACP FIRE ALARM CONTROL PANEL
- MANUAL CALL POINT (RESETTABLE)
- BEACON
- SOUNDER/BELL (85 DB)

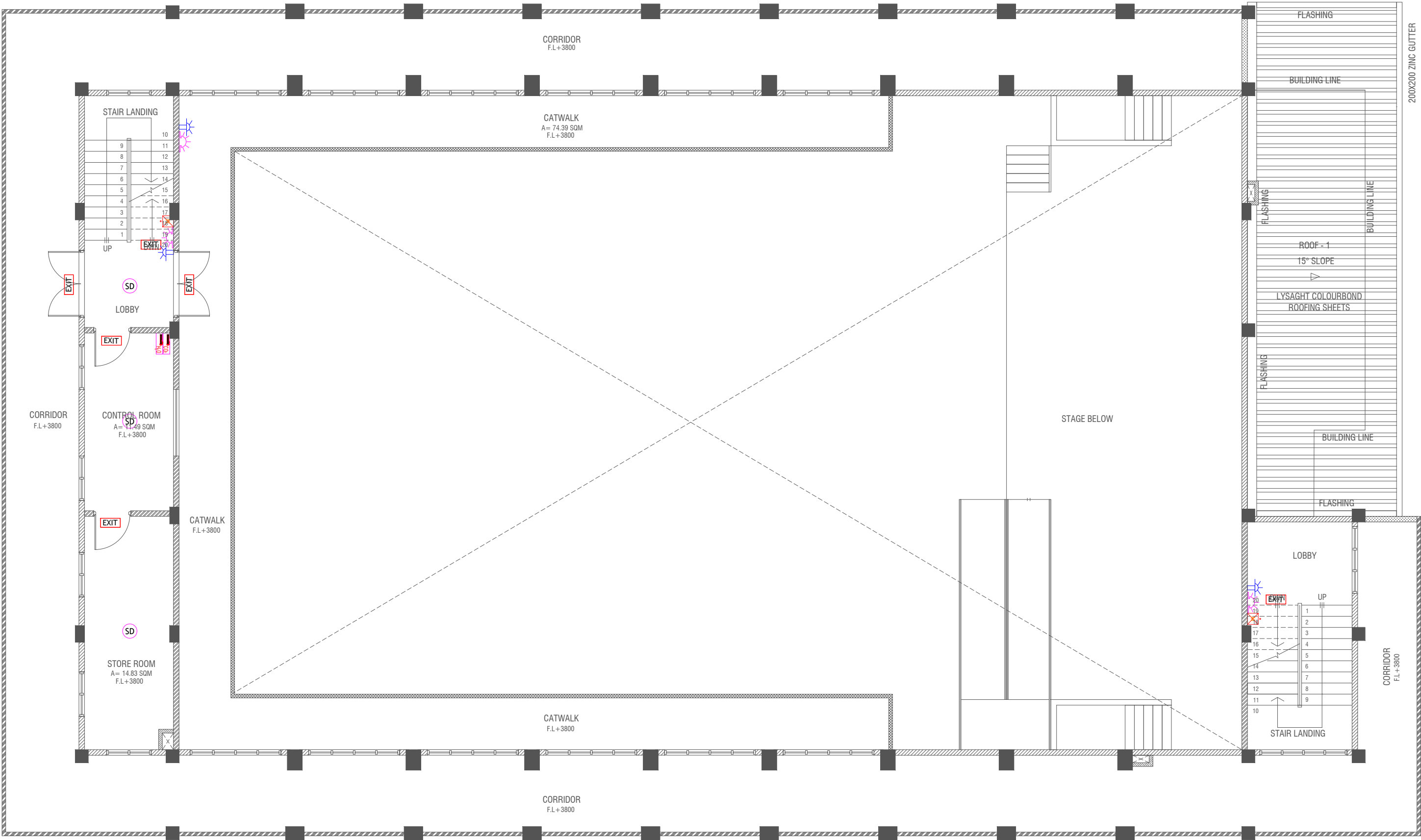
- ALL FIRE RATED DOOR SHOULD COME WITH PACKING/EXPANSION SEAL TRUMP
1. ALL PIPES SHOULD BE GALVANIZED SCHEDULE 40.  
2. ALL PIPES SHALL BE PAINTED IN RED AS PER REGULATION.  
3. ALL SUPPORT/BRAKETS SHALL BE HOT DIPPED GALVANIZED TO 100MM.  
4. ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

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Client: Ministry of Education

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## FIRST FLOOR FDP LAYOUT

SCALE 1:100



### LEGEND

- SD SMOKE DETECTOR
- HD HEAT DETECTOR
- EXIT EXIT SIGN
- EM EMERGENCY LIGHT

- CO<sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- WET CHEMICAL FIRE EXTINGUISHER (LOAD: 7.2KG)
- H<sub>2</sub>O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

- ELR END OF LINE RESISTANCE
- FACP FIRE ALARM CONTROL PANEL
- MANUAL CALL POINT (RESETTABLE)
- BEACON
- SOUNDER/BELL (85 DB)

- 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 100% OF
- 4. ALL FIRE EXTINGUISHER INSIDE CABINETS, (CABINET SHOULD BE PROVIDED)

Adh.Maamigili, Atoll Madharusaa School Multipurpose Hall,7 Classroom & AV Room

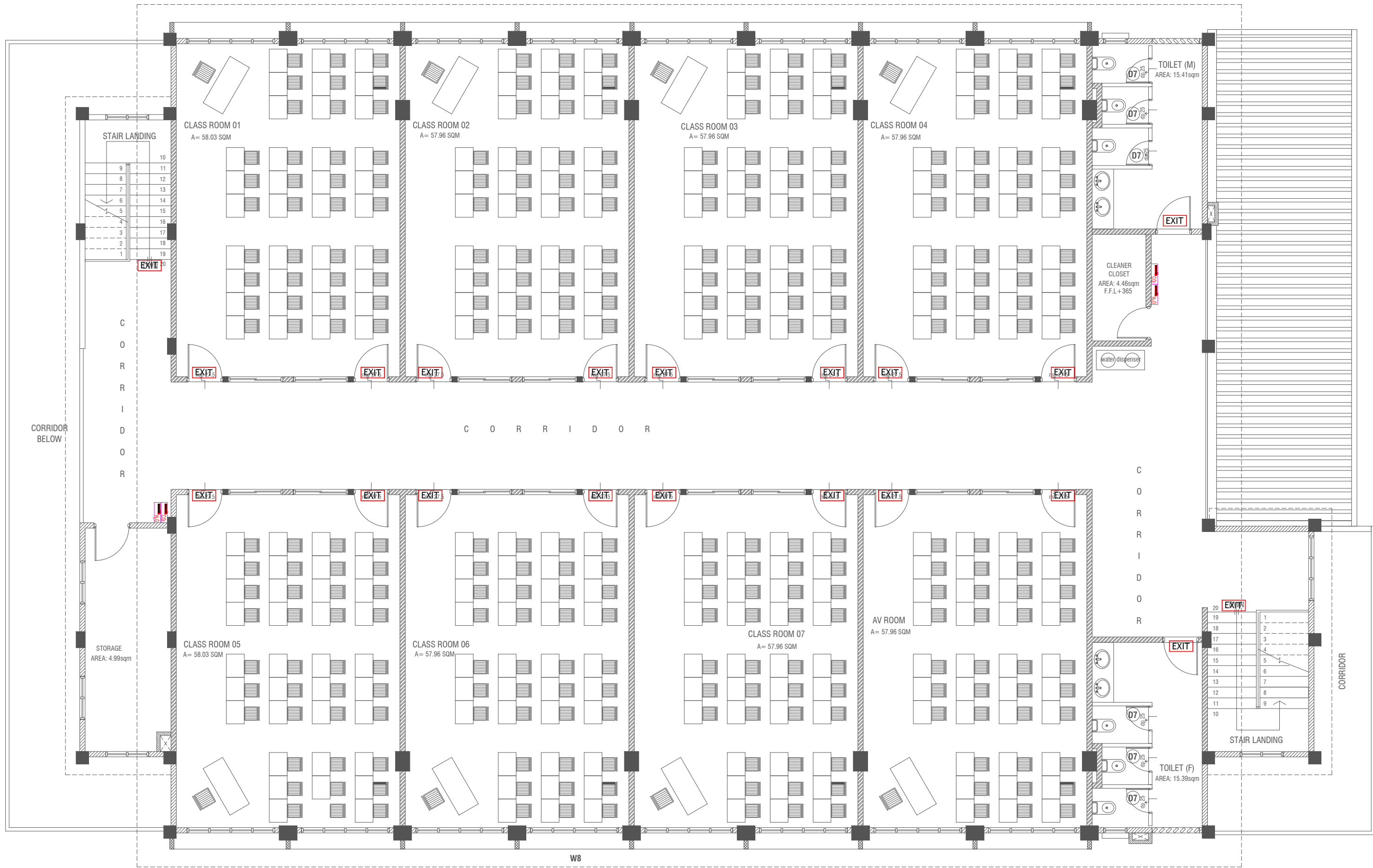
Client: Ministry of Education

Project Number: B/2020/006  
Date: March 2021  
Architect: Fatimah Leena Jaleel  
Engineer: Mohamed Muthaib Valsed  
Services: Ahamad Jaleel  
Interior: -

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3rd floor, H. Azam, Amersomogai, Male'

Title: 1st Floor FDP Layout  
Page: FDP - 02/03

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SECOND FLOOR FDP LAYOUT

SCALE 1:100

LEGEND

- EXIT SIGN
- CO<sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- H<sub>2</sub>O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

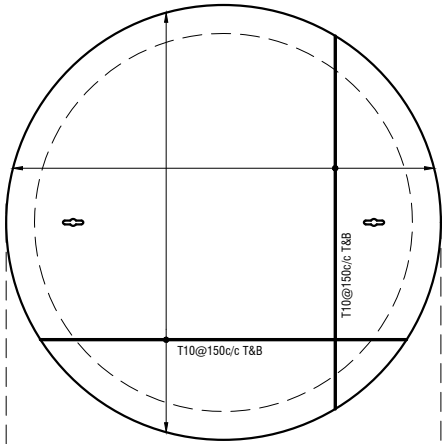
ALL FIRE CABLES AND CONDUITS SHOULD BE FIRE RETARDANT LOW SMOKE (FRLS) TYPE.

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

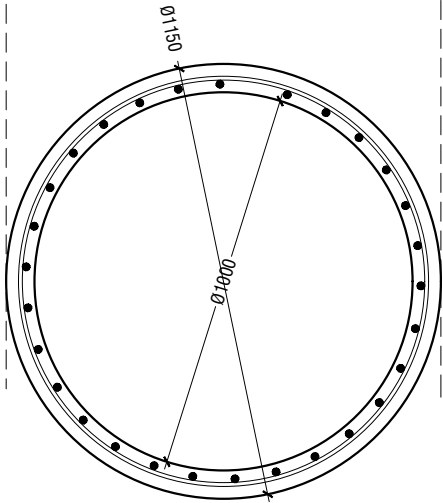
- 1.ALL PIPES SHOULD BE GALVANIZED,SCHEDULE 40.
2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
3. ALL SUPPORT/BRAKET SHALL BE HOT DIPPED GALVANIZED TO 100MM
- 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

-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

WATER TANK WALL TOP & BOTTOM SLAB



WATER TANK WALL REINF.

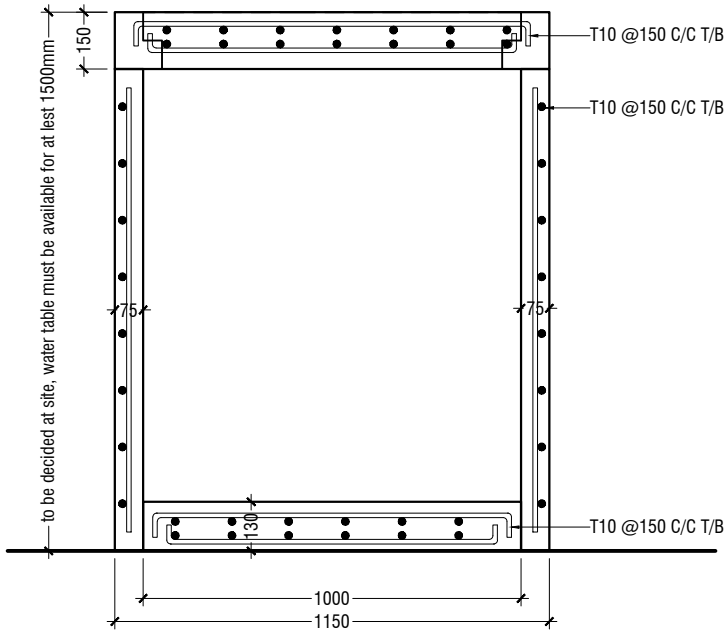


WATER TANK DETAILS

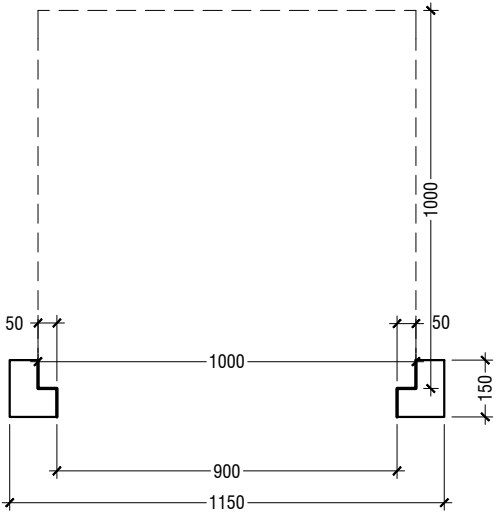
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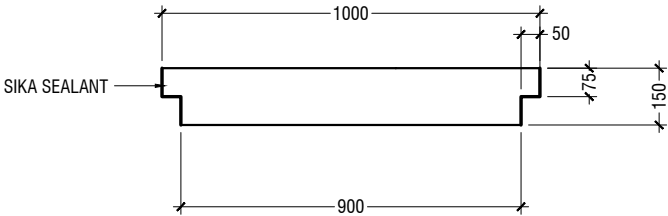
WATER TANK SECTION



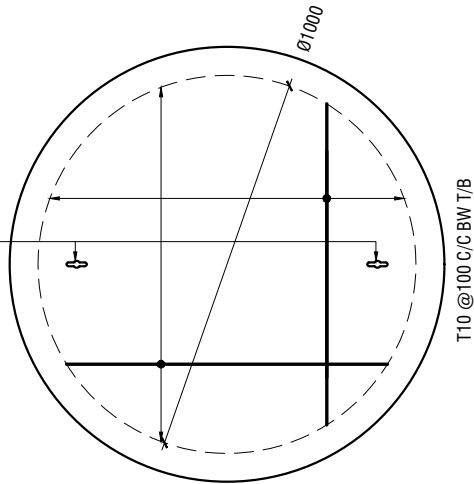
ELEVATION



SECTION



PLAN



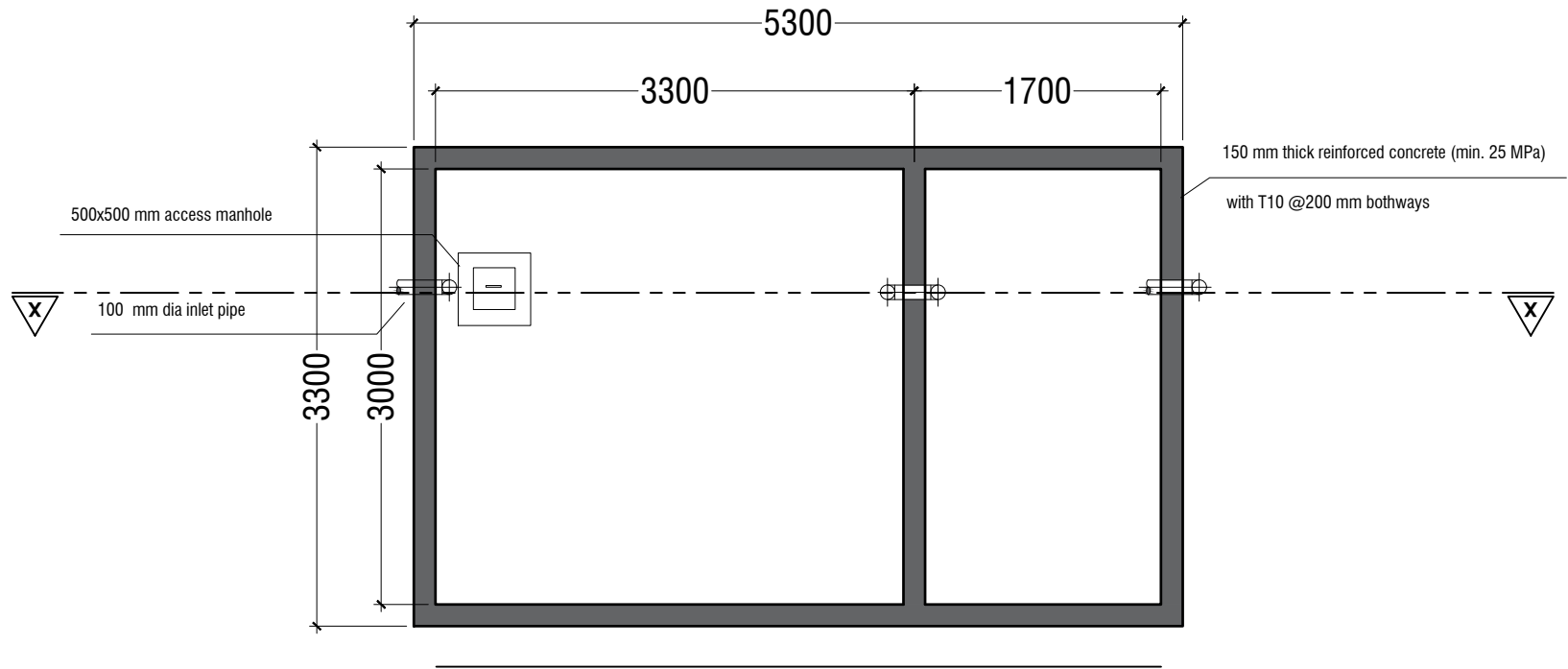
NOTE:

- 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

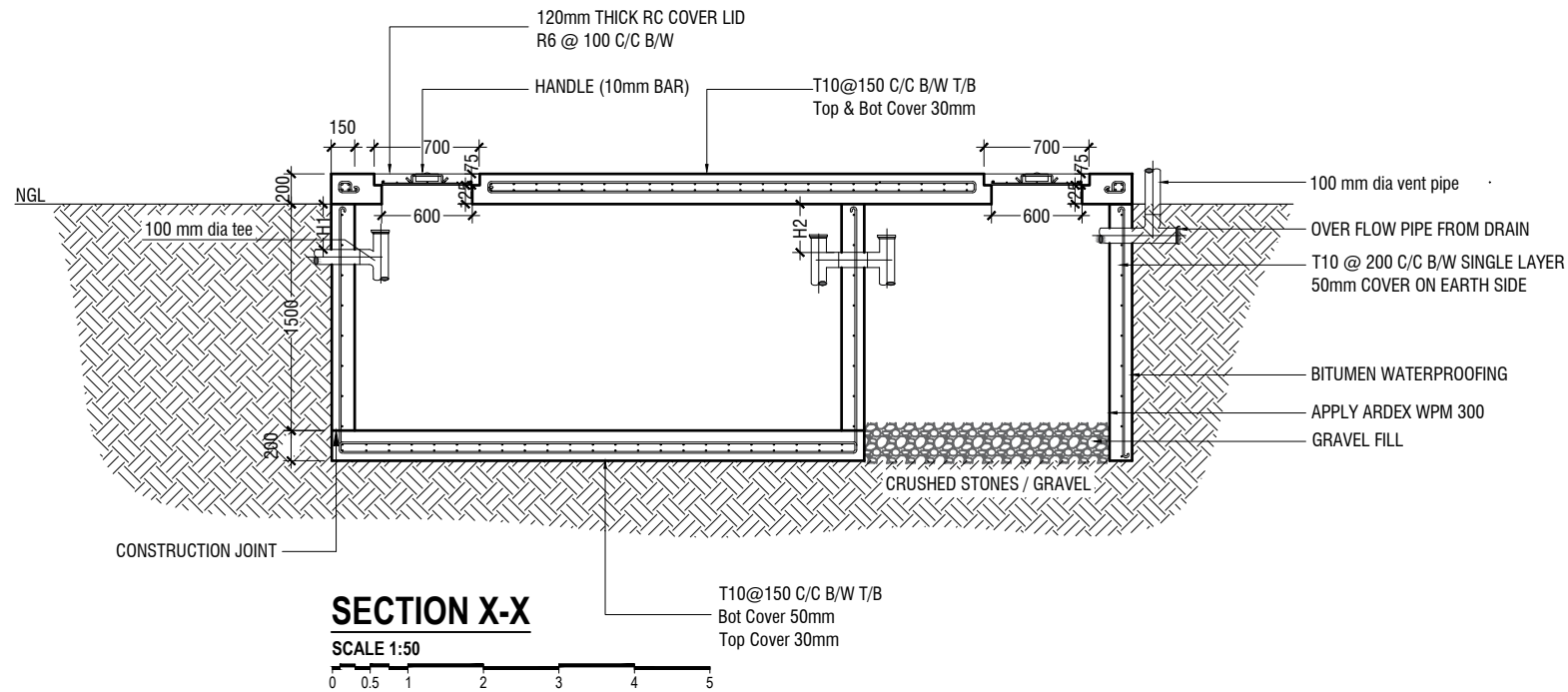
SCALE 1:20





### PLAN

SCALE 1:50



### SECTION X-X

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

### SEPTIC TANK DETAIL

SCALE 1:50

