

Proposed Multipurpose Hall Building at F.Bilehdhoo School

SERVICES DRAWINGS
Client: Ministry of Education

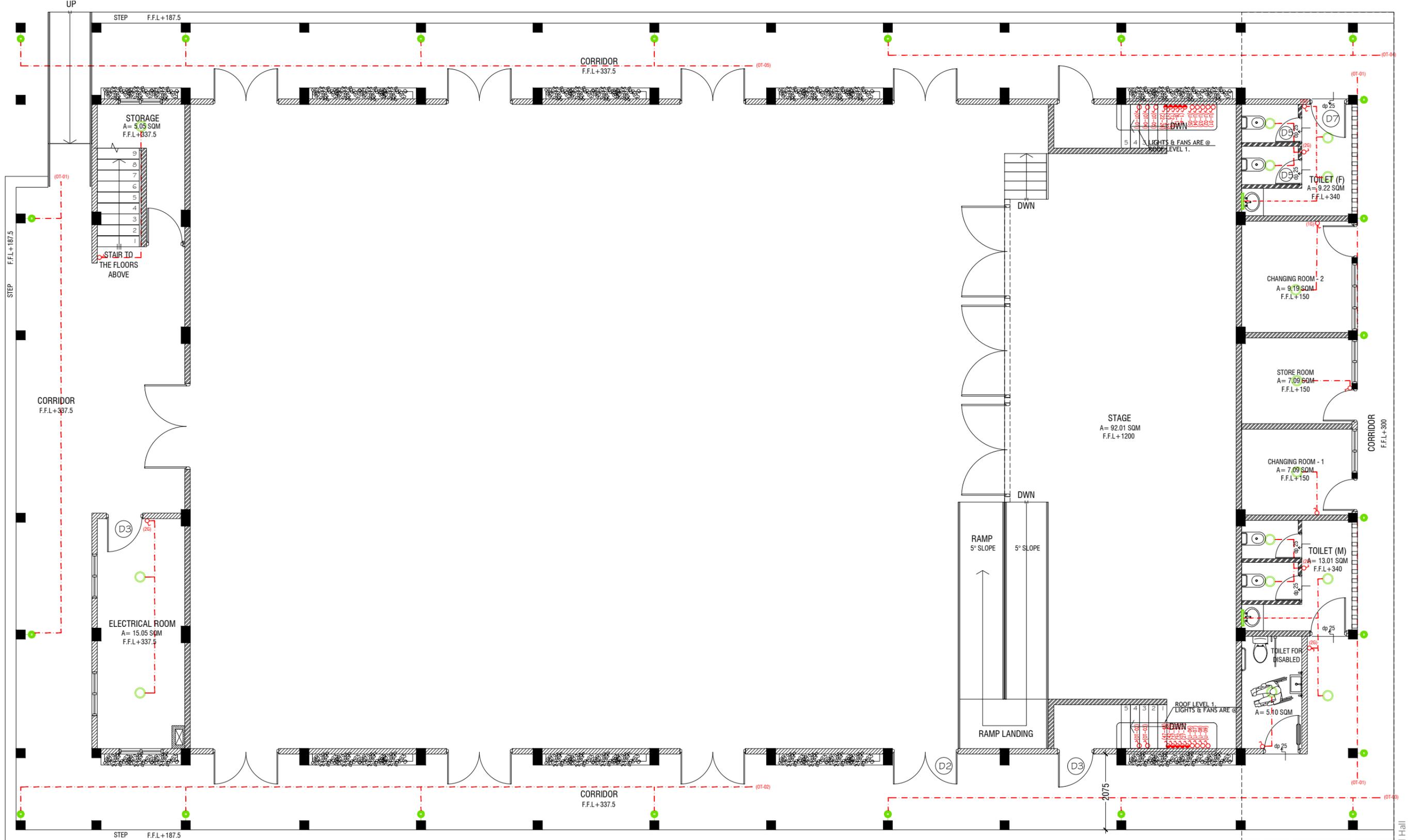


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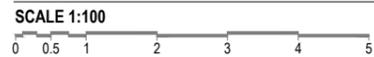
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3rd floor, H. Azum, Ameenemagui, Male'

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GROUND FLOOR LIGHTING LAYOUT



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"

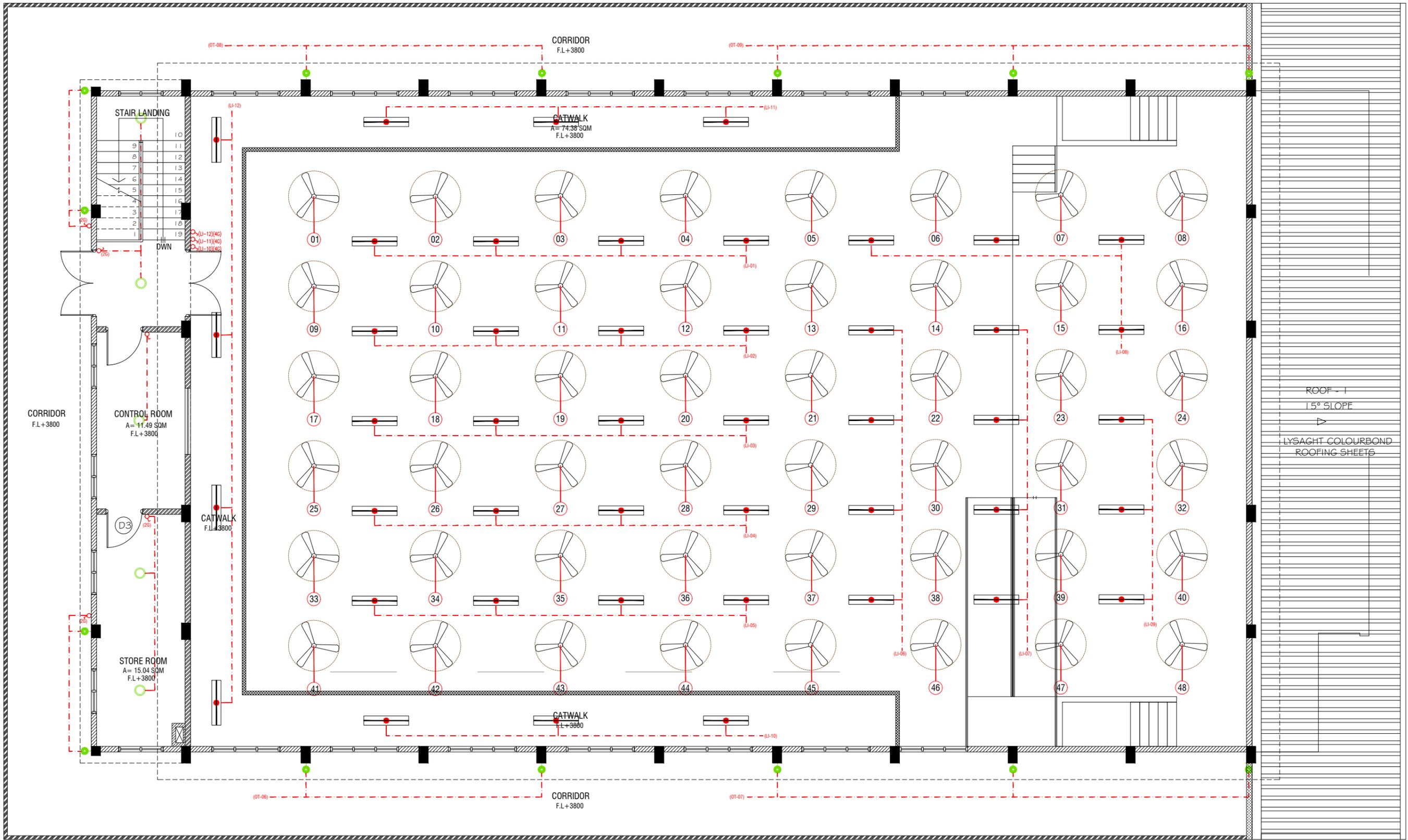
Project Number: R/2020/006
 Date: January 2021
 Architect: Muryam Toha Shams
 Drawn by: Muryam Toha Shams
 Services: Alhath Ahmed

F.Bilehdhoo School Hall
 Client: Ministry of Education



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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:

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NOTE:

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

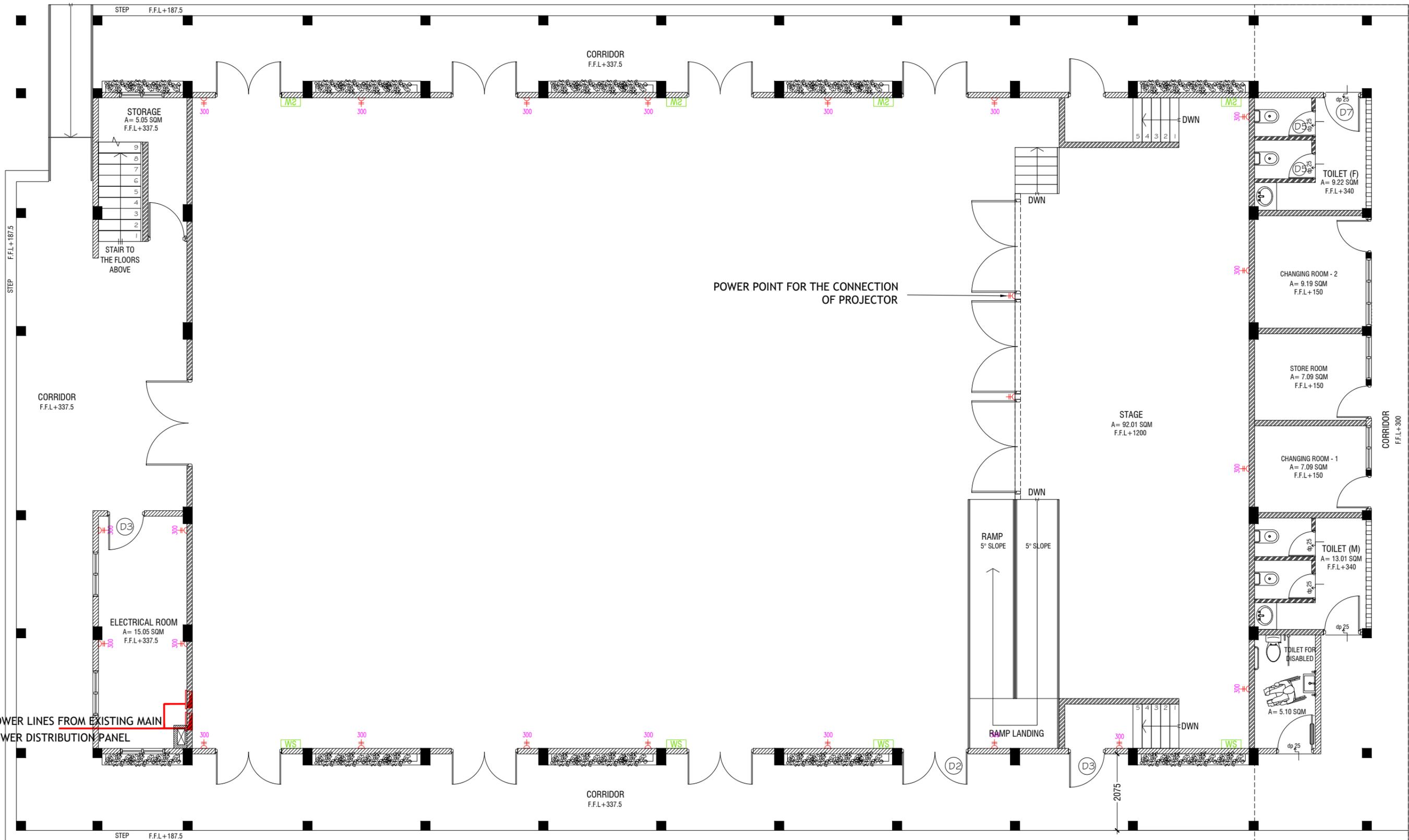
F. Bilehthoo School Hall
Client: Ministry of Education

Rev no	Date
1	02/02/2021
2	02/02/2021
3	02/02/2021
4	02/02/2021
5	02/02/2021



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GROUND FLOOR POWER LAYOUT

SCALE 1:100

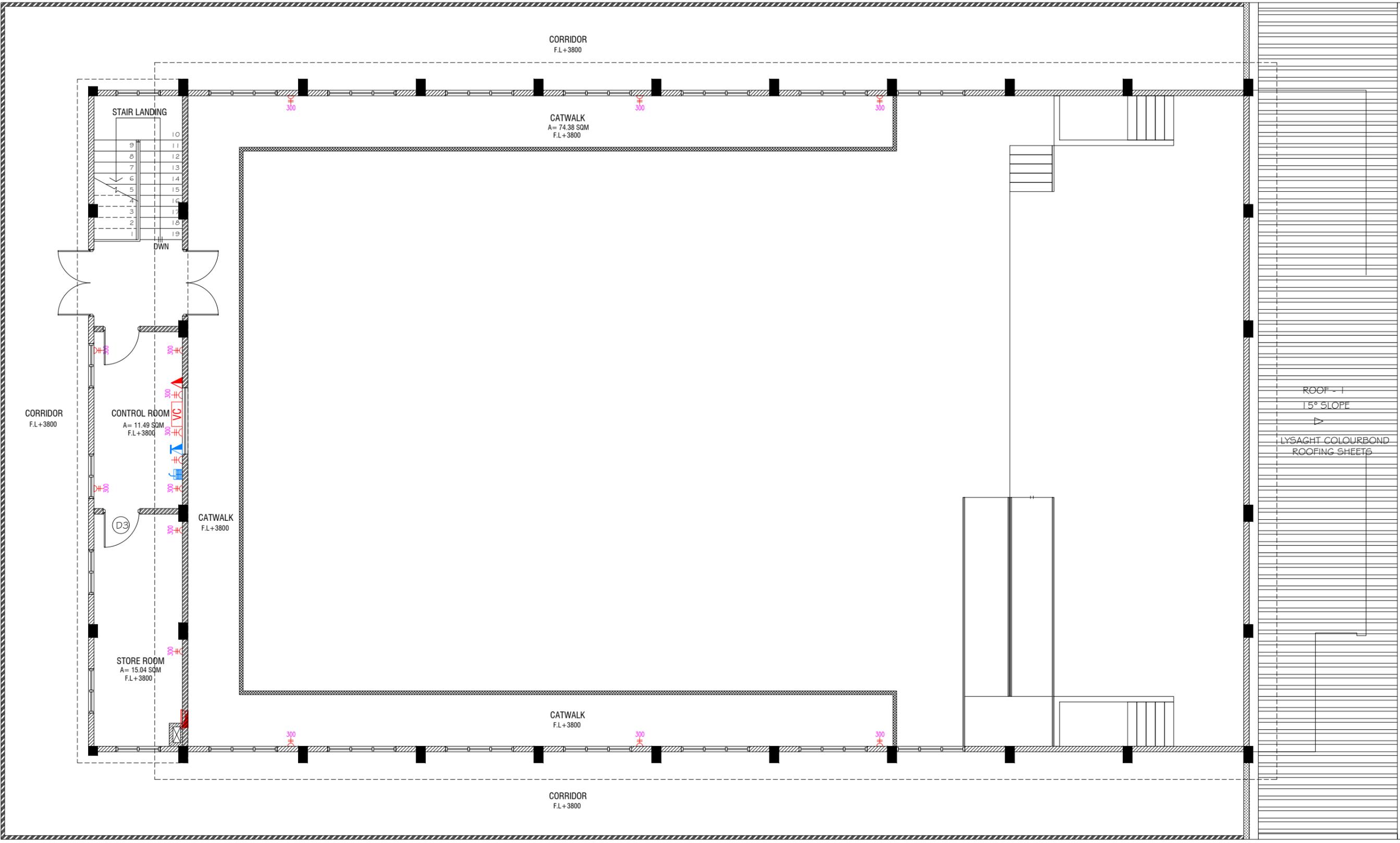


- ▲ PHONE EXTENSION
- ▲ COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- ▲ TELEPHONE OUTLET (RJ11, CONNECTOR)
- ⏏ 13A POWER POINT
- ⏏ 13A TWIN SOCKET OUTLET
- ⏏ 15A.SWITCHED/ SPUR UNIT @ H.L.
- ⏏ DISTRIBUTION BOX
- [WS] WALL SPEAKERS AT CEILING LEVEL

- 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

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

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



FIRST FLOOR POWER LAYOUT

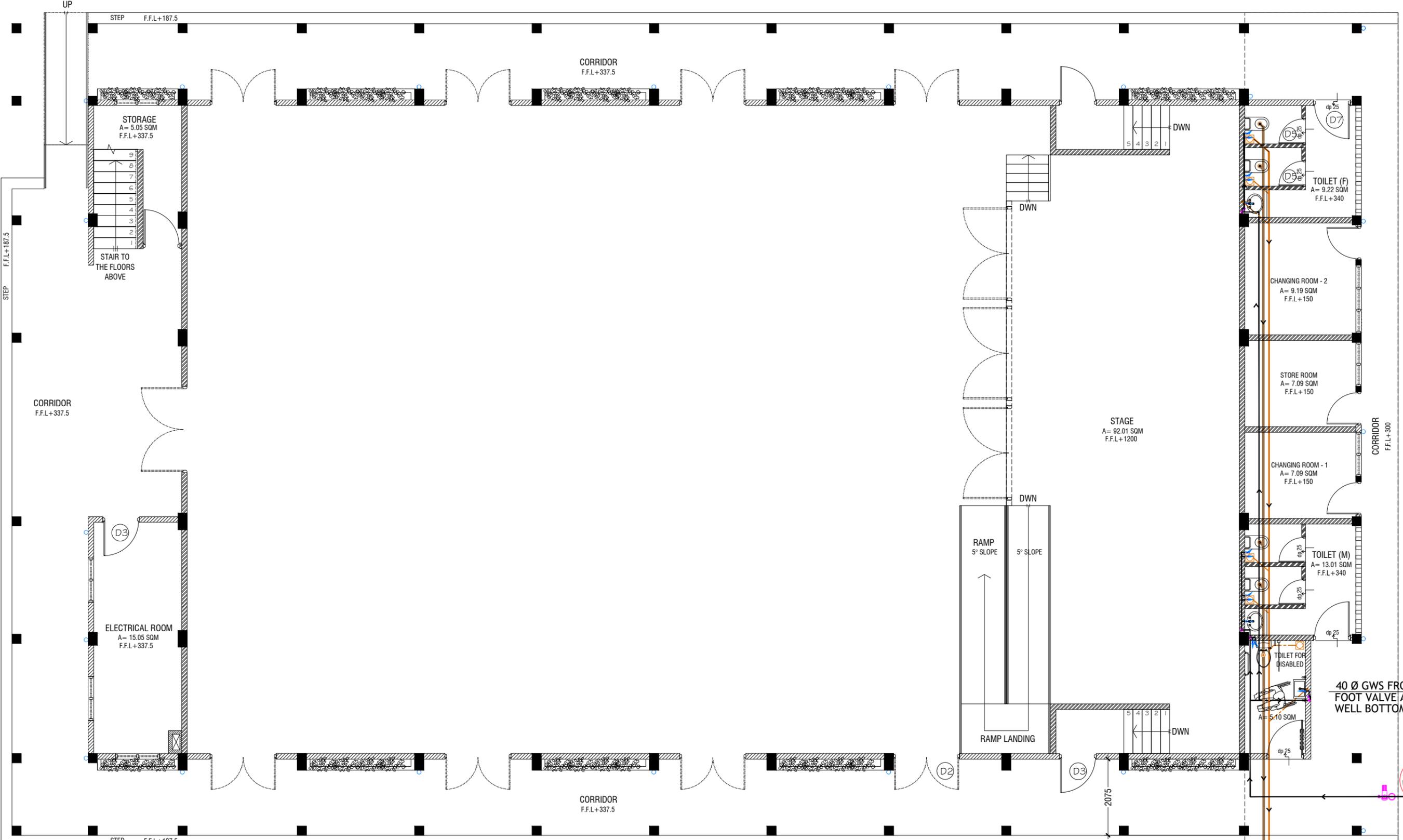
SCALE 1:100

- PUBLIC ADDRESS SYSTEM
- PHONE EXTENSION
- COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER POINT
- 13A TWIN SOCKET OUTLET
- 15A SWITCHED/ SPUR UNIT @ H.L.
- DISTRIBUTION BOX
- WALL SPEAKERS AT CEILING LEVEL
- VOLUME CONTROLLER

- 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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ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

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



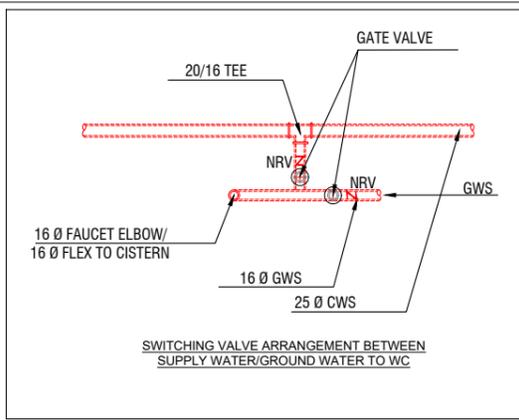
GROUND FLOOR PLUMBING & DRAINAGE LAYOUT

SCALE 1:100



LEGEND

- | | | | | |
|----|---|---|-----------------------------------|---------------------|
| FC | 16Ø COLD WATER SUPPLY FAUCET / WALL TAP/SINK | □ | FLOOR DRAIN | |
| ✓ | 16Ø COLD WATER SUPPLY TO CISTERN | ○ | FLOOR GULLY | |
| GV | GATE VALVE | — | 110Ø SOIL PIPE (CPVC PIPE) | |
| ⊕ | RISE IN WALL | — | 82Ø WASTE PIPE (CPVC PIPE) | |
| ⊖ | DROP IN WALL | — | 40Ø WASTE PIPE (CPVC PIPE) | |
| — | 32Ø COLD WATER SUPPLY PIPES RUNNING UNDERGROUND | — | 50Ø WASTE PIPE (CPVC PIPE) | |
| — | 25Ø COLD WATER SUPPLY PIPES RUNNING IN WALLS | — | 82Ø MANHOLE VENT PIPE (CPVC PIPE) | |
| — | 25Ø COLD WATER SUPPLY PIPES RUNNING UNDERGROUND | — | ○ | BOTTLE TRAP |
| — | 25Ø COLD WATER SUPPLY PIPES RUNNING ABOVE FALSE CEILING | — | — | 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:

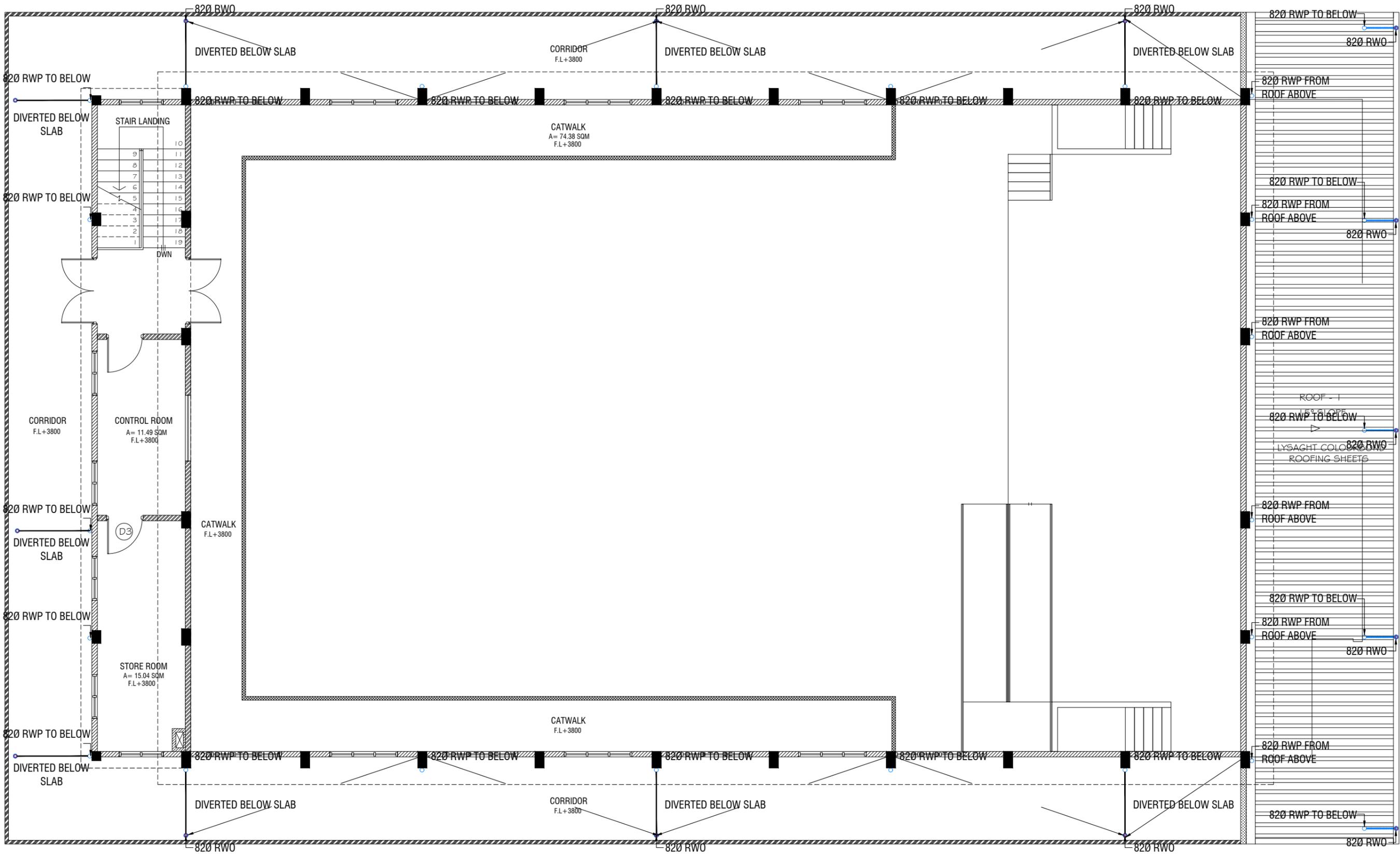
- THE WELL SHALL BE RELOCATED ACCORDING TO THE SALINITY OF THE GROUND WATER.
- BASED ON WELL LOCATION PUMP CAPACITY AND LOCATION TO BE DECIDED

Project Number: R/2020/006
 Date: January 2021
 Architect: Marjyam Iqbal Shabbir Waleed
 Drawn by: Marjyam Iqbal Shabbir Waleed
 Services: Aljathir Ahmed
 Interior:

F.Bitehdhoo School Hall
 Client: Ministry of Education
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Title: Ground Floor Plumbing & Drainage Layout
 Page: DR - 01/04

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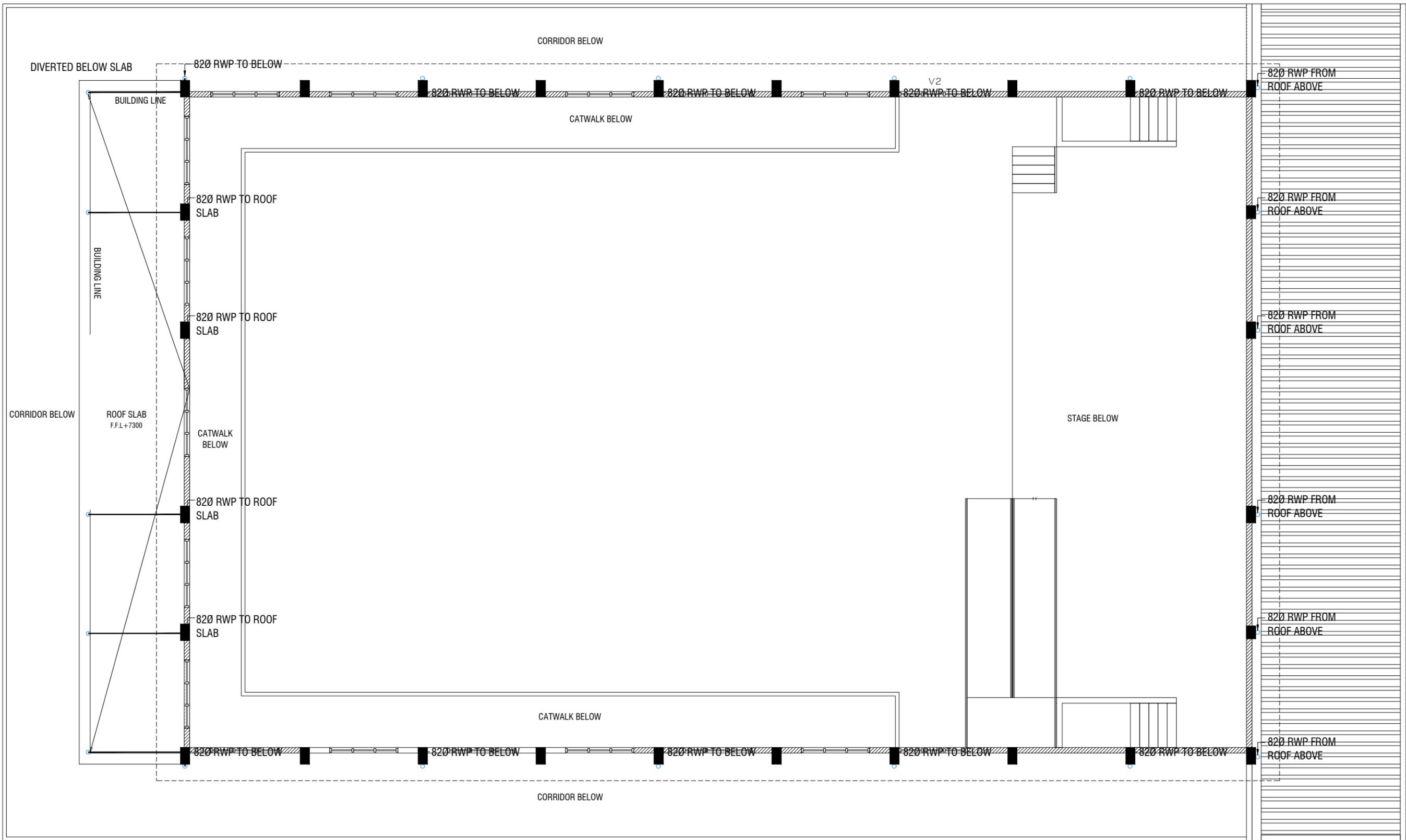
FIRST FLOOR DRAINAGE LAYOUT

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



ROOF PLAN - 1 DRAINAGE LAYOUT

SCALE 1:100



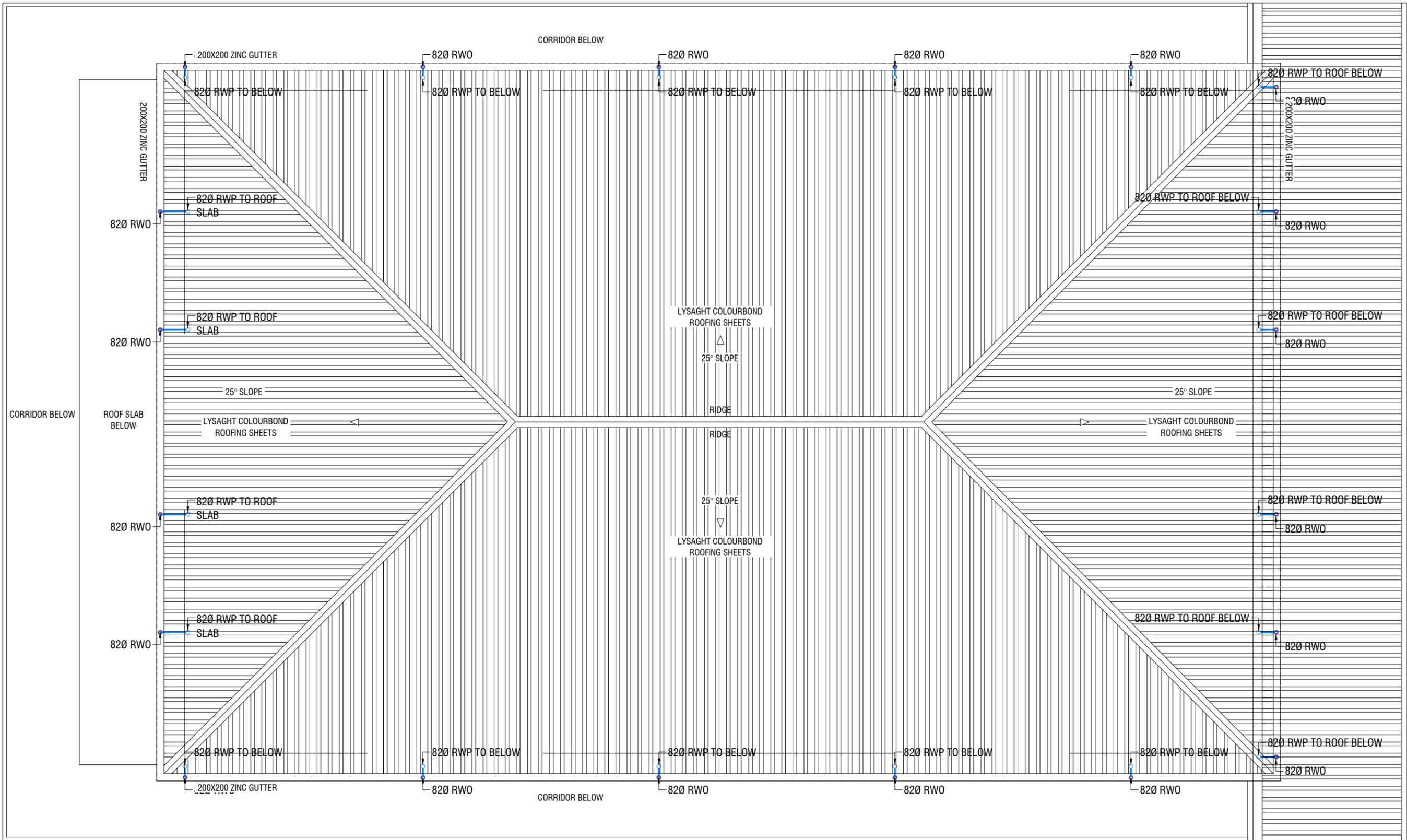
- RWP — 82/50 Ø RAINWATER PIPE
- RWO — 82/50 Ø DRAIN OUTLET
- CD — 25 Ø DRAIN PIPE
- MHVP — 50 Ø MANHOLE VENT PIPE

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

F. Bilehdhoo School Hall
 Client: Ministry of Education
 Project Number: B/2020/006
 Date: January 2021
 Architect: Muryam Taha Shams
 Drawn by: Muryam Leovan Jaleel
 Services: Aljathir Ahmed
 Interior: ..
 Rev no Date



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ROOF PLAN - 2 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

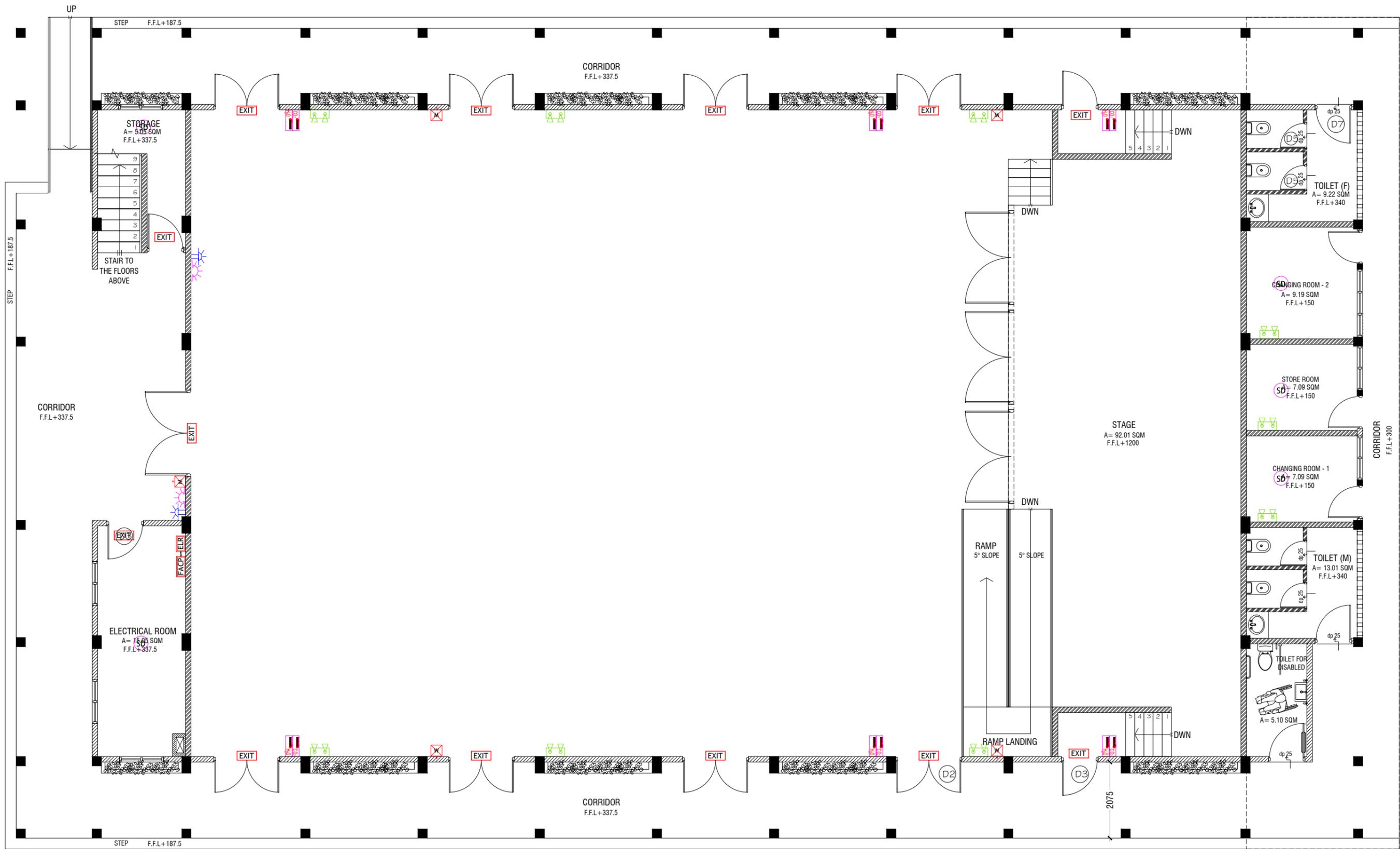
NOTE:
 - ALL RAINWATER PIPES TO BE AT GROUND LEVEL
 DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT

F. Bilehdhoo School Hall
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 Project Number: B/2020/006
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 Architect: Muryam Iqbal Shaukat
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 Services: Alshahh Ahmed
 Interior: ..



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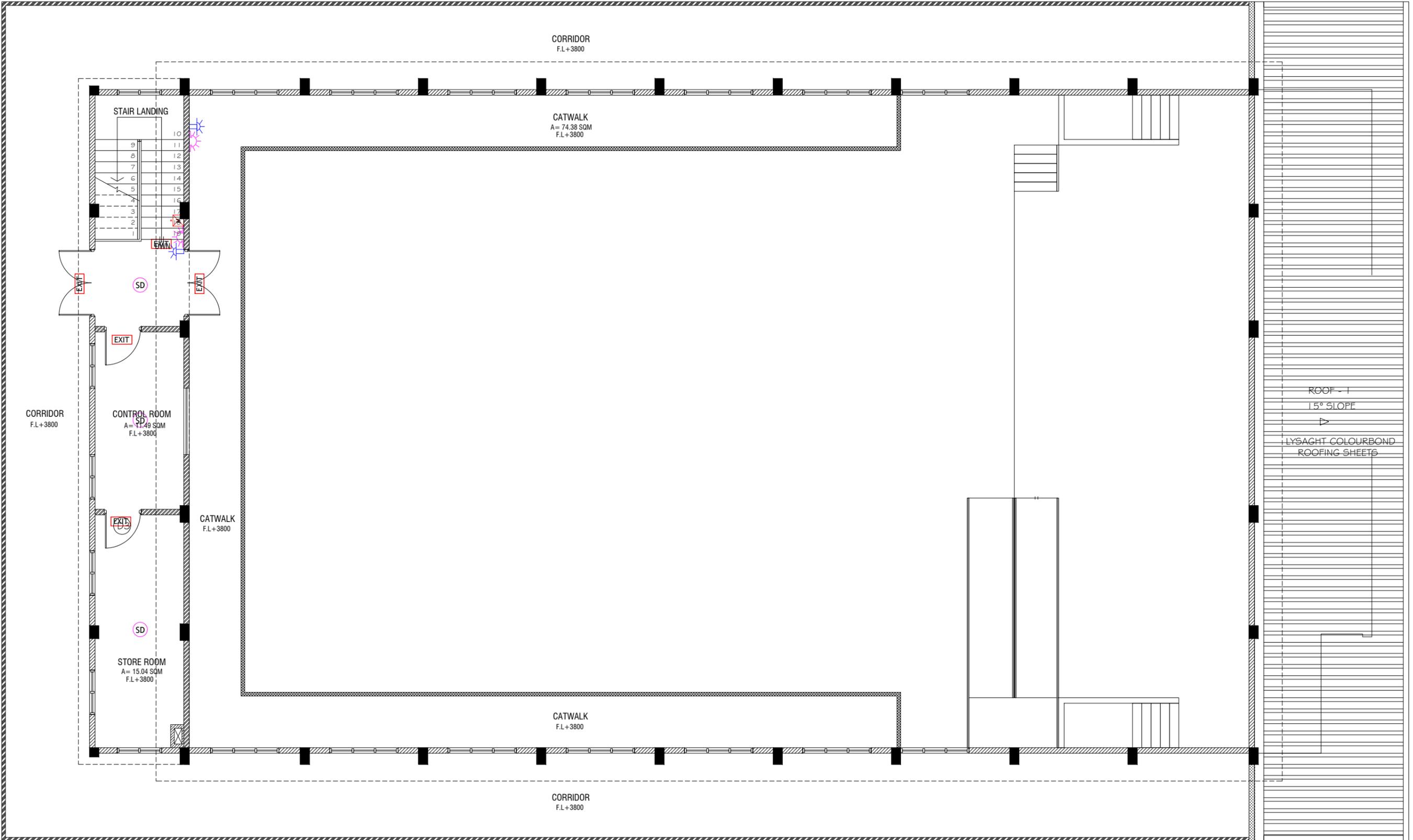


GROUND FLOOR FDP LAYOUT



- LEGEND**
- SMOKE DETECTOR
 - HEAT DETECTOR
 - EXIT SIGN
 - EMERGENCY LIGHT
 - CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE (TYP.)
 - WET CHEMICAL FIRE EXTINGUISHER (LOAD: 7.2KG)
 - H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE (TYP.)
 - END OF LINE RESISTANCE
 - 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 100μM.
 4. ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)



FIRST FLOOR FDP LAYOUT

SCALE 1:100



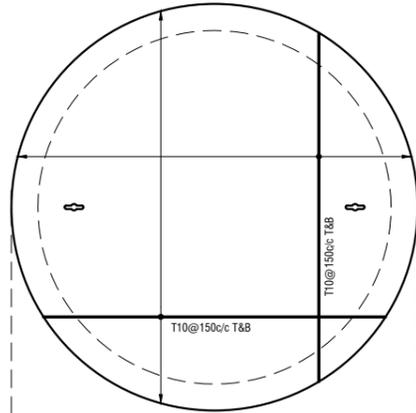
- LEGEND**
- SMOKE DETECTOR
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 - CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE (TYP.)
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 - FIRE ALARM CONTROL PANEL
 - MANUAL CALL POINT (RESETTABLE)
 - BEACON
 - SOUNDER BELL (85 DB)

- 1. ALL FIRE RATED DOOR SHOULD COME WITH PACKING (EXPANSION SEAL TRAP)
- 2. ALL PIPES SHALL BE GALVANIZED SCHEDULE 40.
- 3. ALL SUPPORT BRACKET SHALL BE HOT DIPPED GALVANIZED TO 100µM.
- 4. ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

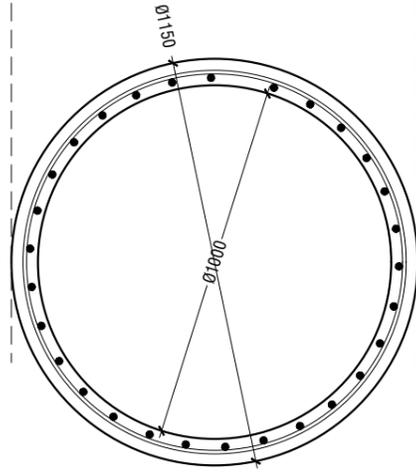
F. Bilehdhoo School Hall
 Client: Ministry of Education
 Project Number: B/02/02/006
 Date: January 2021
 Architect: Marjyam Iqbal Shaukat
 Engineer: Marjyam Iqbal Shaukat
 Drawn by: Marjyam Iqbal Shaukat
 Services: Alshahh Ahmed
 Interior: ..

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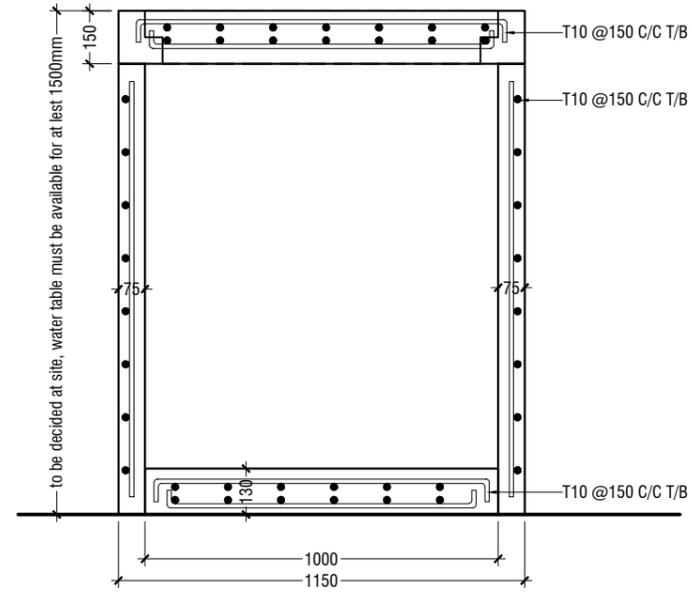
WATER TANK WALL TOP & BOTTOM SLAB



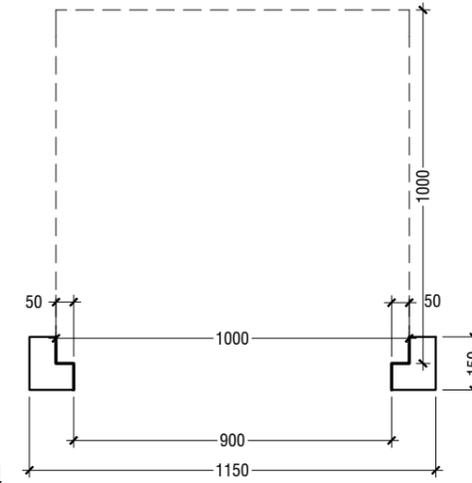
WATER TANK WALL REINF.



WATER TANK SECTION

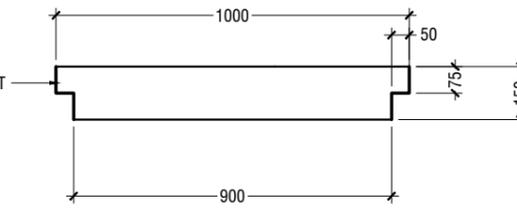


ELEVATION



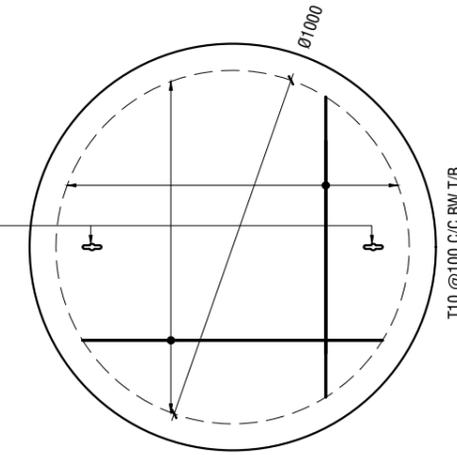
SIKA SEALANT

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 DETAILS

SCALE 1:20



WATER TANK LID DETAILS

SCALE 1:20

