

ARCHITECTURAL NOTES.

1. All works to be carried out in accordance with Local Authority regulations.
2. All figured dimensions to be taken in preference to scaled dimensions.
3. All walls below 200mm to be reinforced with hoop iron at every alternative course.
4. Provide damp proof course (D.P.C.) under all walls.
5. P.V. indicates permanent ventilations.
6. All drainage passing under building and drive area to be of pvc pipe and encased in 150mm thick concrete surround.
7. All inspection chambers in drive area to have heavy duty covers.
8. Check all dimensions on site.
9. All sanitary work to be in accordance with MOH rules and regulations and NCC requirements.
10. 500g polythene sheeting and anti-termites treatment to be provided under ground floor concrete slab.
11. All reinforced concrete works to Structural Eng. detail.
12. Automatic booster pump for FHRs to be provided to the satisfaction of the Chief Fire Officer.
13. 4500 litres reserve for hose reel
14. Electrical fire alarm system to the approval of Chief Fire Officer.
15. Fire alarm and booster to be provided with secondary power supply.
16. 2x9 kg Dry Powder Fire Extinguishers at areas shown.
17. 2x9 litre water and 1x4.5 kg CO2 fire extinguishers to be provided per floor.

SUMMARY OF RENOVATION WORKS AT BASEMENT FLOOR LEVEL

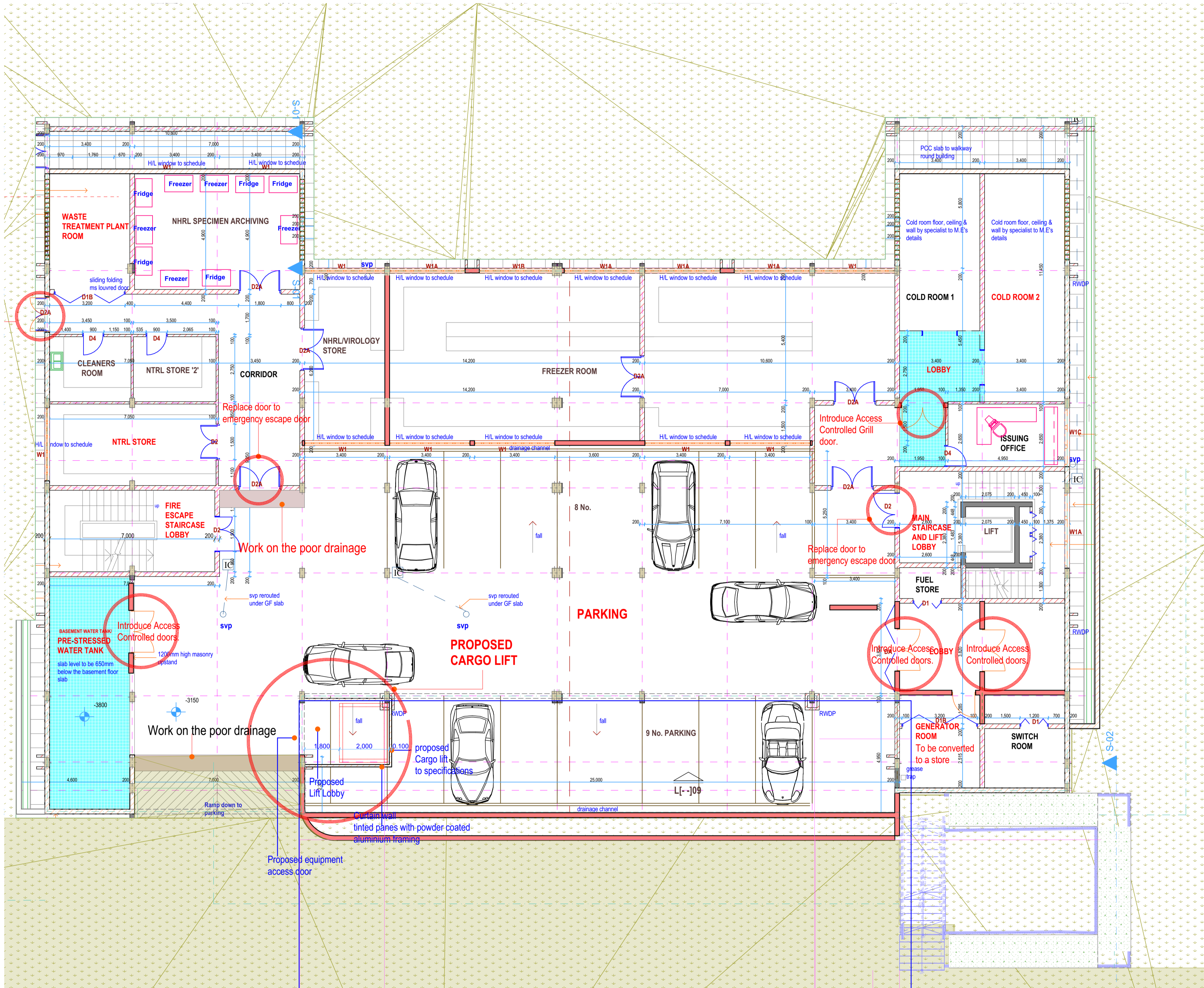
- Lab waste management plant system to be removed and carefully disposed of. The room to be converted into a store.
- Inspection and proposing a solution for the leakages in plumbing and drainage pipeworks.
- Proposing a solution for the poor drainage as highlighted.
- Introducing /creating/repairing emergency exit doors and clearly labelling them.
- Inspect for any existing cracks and repair as per the procedure in the specifications.
- Covert the existing generator room to a store, introduce doors as indicated.
- Inspect drainage pipeworks along the ceiling and wall for any leakages and repair accordingly, making good any affected walling plaster work or paint work as a result of leakages repair.

works as per the attached User requirement specification document

LEGEND

- Area highlight
- Areas to be worked on labelled in red
- Areas where no action is to be taken labelled in black

- C-BSC - CLEAN BIOSAFETY CABINET
- D-BSC - DIRTY BIOSAFETY CABINET
- B6 - BSC 6ft.
- B4 - BSC 4ft.
- HWS - HANDWASH SINK
- S - SINK
- Fr - FREEZER
- INCUBATOR
- C - CENTRIFUGE
- 960 - MGT960
- P - PASS THROUGH INCLUDING SPECIMEN PLACEMENT BASE TO REQUIREMENTS
- E - EQUIPMENT DOOR
- W - VIEWING SEALED WINDOW
- SH - SHOWER
- EEW-EMERGENCY EYE WASH
- ESH-EMERGENCY SHOWER
- DR - DRAWERS
- A - AUTOCLAVE
- PL - PRINTER LABEL
- HB - HIGH BENCH \_1050mm high
- LB - LOW BENCH \_900mm high
- E.O.T.ELBOW OPERATED TAPS
- F A- FREE STANDING AUTOCLAVE



**BASEMENT FLOOR LAYOUT**  
**SCALE 1:100**

Revision	Date

**TETRA DESIGNS LIMITED**  
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Architects signature.....

Client  
**NATIONAL PUBLIC HEALTH LABORATORY, DEPARTMENT OF LABORATORY SERVICES (DLS), MINISTRY OF HEALTH**  
P.O. BOX 20750-00202, NAIROBI.

MANAGED BY  
**AMREF HEALTH AFRICA IN KENYA**  
P.O BOX 30125-00100 WILSON AIRPORT, NAIROBI.

Client sign.....

Project Title  
**PROPOSED RENOVATION AND MAINTENANCE OF BSL III LABORATORIES AT NATIONAL PUBLIC HEALTH LABORATORY (BLOCK B) AT THE DEPARTMENT OF LABORATORY SERVICES, MINISTRY OF HEALTH.**

ON  
**KENYATTA NATIONAL HOSPITAL GROUNDS - OFF NGONG ROAD**

Project No.TD/NKU/22/04/125

Drawing Title

BASEMENT FLOOR

BASEMENT FLOOR PLINTH AREA:

Drawing Status

WORKING DRAWINGS

Drawn by Renovations/Design by Checked by Date

Arch. Boaz. Kim      JAN,2025

Scales

1:100

Drawing Number      Status      Revision

ARCHITECTURAL NOTES.

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5. P.V. indicates permanent ventilations.
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7. All inspection chambers in drive area to have heavy duty covers.
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16. 2x9 kg Dry Powder Fire Extinguishers at areas shown.
17. 2x9 litre water and 1x4.5 kg CO2 fire extinguishers to be provided per floor.

Revision	Date

SUMMARY OF RENOVATION WORKS AT GROUND FLOOR

- Main entrance layout changes and installation.
- BMS office layout changes and implementation
- Inspection and proposing a solution for the leakages in plumbing and drainage pipeworks.
- Lobby areas refurbishment work
- Introducing /creating/repairing emergency exit doors and clearly labelling them.
- Inspect for any existing cracks and repair as per the procedure in the specifications.
- Inspect drainage pipeworks along the ceiling and wall for any leakages and repair accordingly, making good any affected walling plaster work or paint work as a result of leakages repair.

works as per the attached User requirement specification document

LEGEND

- Area highlight
- Areas to be worked on labelled in red
- Areas where no action is to be taken labelled in black
- Granite Floor tiles finish cover area
- Epoxy floor finish cover area
- Leakages
- Ceramic Floor tiles finish cover area including skirting

- Existing BMS Office
- C-BSC - CLEAN BIOSAFETY CABINET
  - D-BSC - DIRTY BIOSAFETY CABINET
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  - B4 - BSC 4ft.
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 PROPOSED RENOVATION AND MAINTENANCE OF BSL III LABORATORIES AT  
 NATIONAL PUBLIC HEALTH LABORATORY (BLOCK B) AT THE DEPARTMENT OF  
 LABORATORY SERVICES, MINISTRY OF HEALTH.

ON  
 KENYATTA NATIONAL HOSPITAL GROUNDS - OFF NGONG ROAD

Project No. TD/NKU/22/04/125

Drawing Title

GROUND FLOOR

GROUND FLOOR PLINTH AREA:

Drawing Status

WORKING DRAWINGS

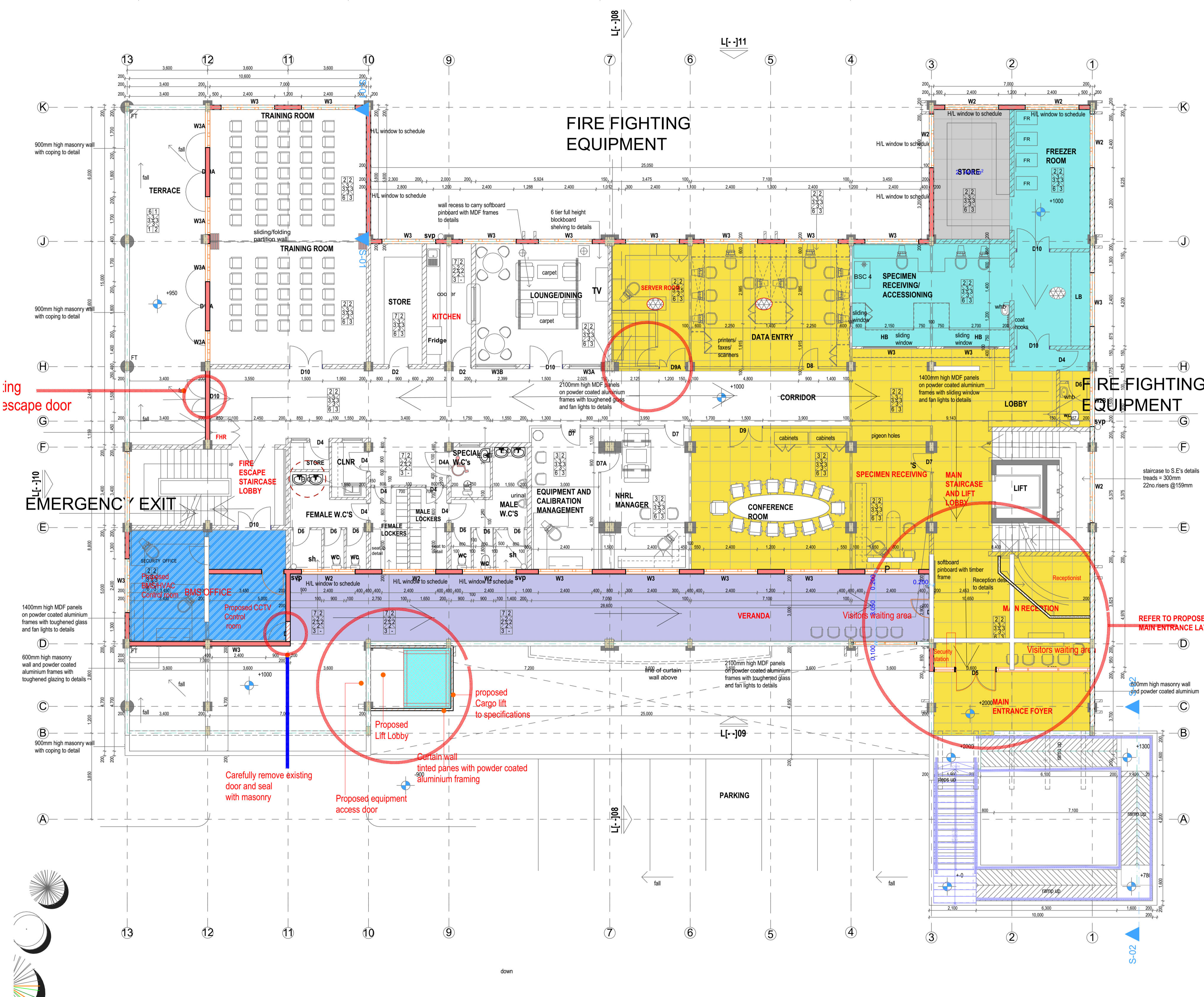
Drawn by Renovations/Design by Checked by Date

Arch. Boaz. Kim JAN, 2025

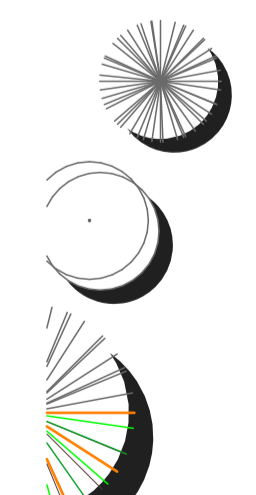
Scales

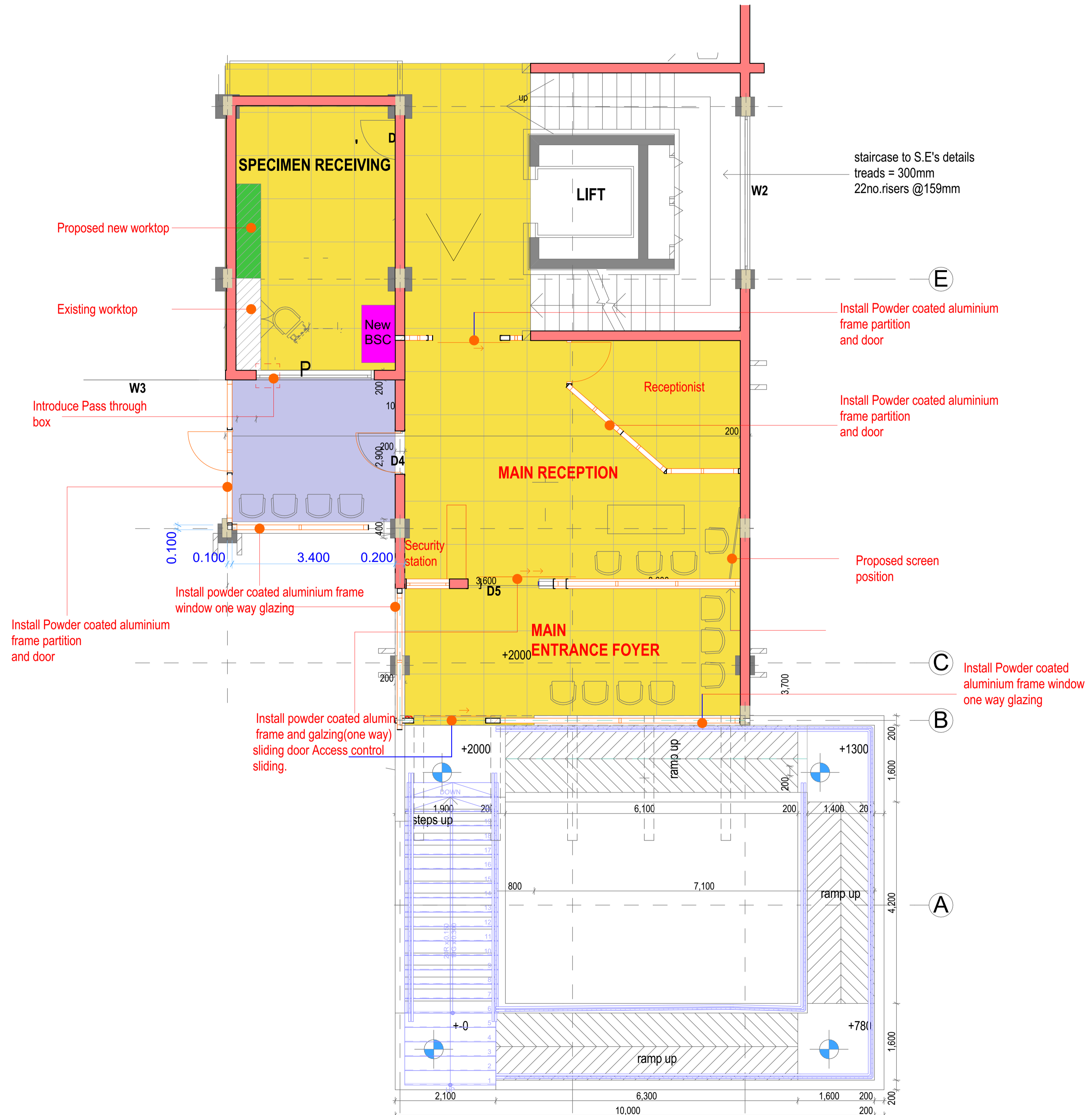
1:100

Drawing Number Status Revision



**GROUND FLOOR LAYOUT**  
**SCALE 1:100**





staircase to S.E's details  
treads = 300mm  
22no.risers @159mm

W2

E

Install Powder coated aluminium  
frame partition  
and door

Install Powder coated aluminium  
frame partition  
and door

Proposed screen  
position

Install Powder coated  
aluminium frame window  
one way glazing

B

Install powder coated aluminium  
frame and galzing(one way)  
sliding door Access control  
sliding.

A

Proposed new worktop

Existing worktop

Introduce Pass through  
box

Install Powder coated aluminium  
frame partition  
and door

Install powder coated aluminium frame  
window one way glazing

# PROPOSED MAIN ENTRANCE LAYOUT SCALE 1:100

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16. 2x9 kg Dry Powder Fire Extinguishers at areas shown.
17. 2x9 litre water and 1x4.5 kg CO2 fire extinguishers to be provided per floor.

Revision	Date

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MANAGED BY

AMREF HEALTH AFRICA IN KENYA  
 P.O. BOX 30125-00100 WILSON AIRPORT, NAIROBI.

Client sign.....

Project Title  
 PROPOSED RENOVATION AND MAINTENANCE OF BSL III LABORATORIES AT NATIONAL PUBLIC HEALTH LABORATORY (BLOCK B) AT THE DEPARTMENT OF LABORATORY SERVICES, MINISTRY OF HEALTH.

ON

KENYATTA NATIONAL HOSPITAL GROUNDS - OFF NGONG ROAD

Project No. TD/NKU/22/04/125

Drawing Title  
 GROUND FLOOR

GROUND FLOOR PLINTH AREA:

Drawing Status  
**WORKING DRAWINGS**

Drawn by	Renovations/Design by	Checked by	Date
	Arch. Boaz. Kim		JAN, 2025

Scales  
 1:100

Drawing Number	Status	Revision
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**SUMMARY OF RENOVATION WORKS AT FIRST FLOOR LEVEL**

Replace the indicated fourteen wash hand basin taps to elbow operated taps.

Carefully remove all the existing dilapidated epoxy floor finish including the underlying poor cement sand screed and dispose off the debris. Prepare the surface and install Epoxy floor finish according to manufactures requirements and as per the attached builders work specifications.

Introduce a cargo lift at the indicated area on the plan layout as per the attached builders work specifications.

Inspect for any cracked, broken or loose tiles, remove and dispose of the debris. Replace/fix tiles as per the attached builders work specifications and make good any affected walling, plaster work or paintwork.

Inspect for any existing cracks and repair as per the procedure in the specifications.

Inspect drainage pipeworks and AC ductwork along the ceiling and wall for any leakages indicated and not indicated, and repair accordingly, making good any affected walling, plaster work, ceiling panels or paint work as a result of leakages repair.

Inspect all aluminium windows for any locking and opening problems and repair accordingly as per the specifications.

Inspect all wooden doors locking mechanism and repair accordingly. Introduce an access control door from the main reception as indicated.

Specific BSL 3 renovation works as per the attached URS specifications.

Other works and details as per the attached User requirements Specifications.

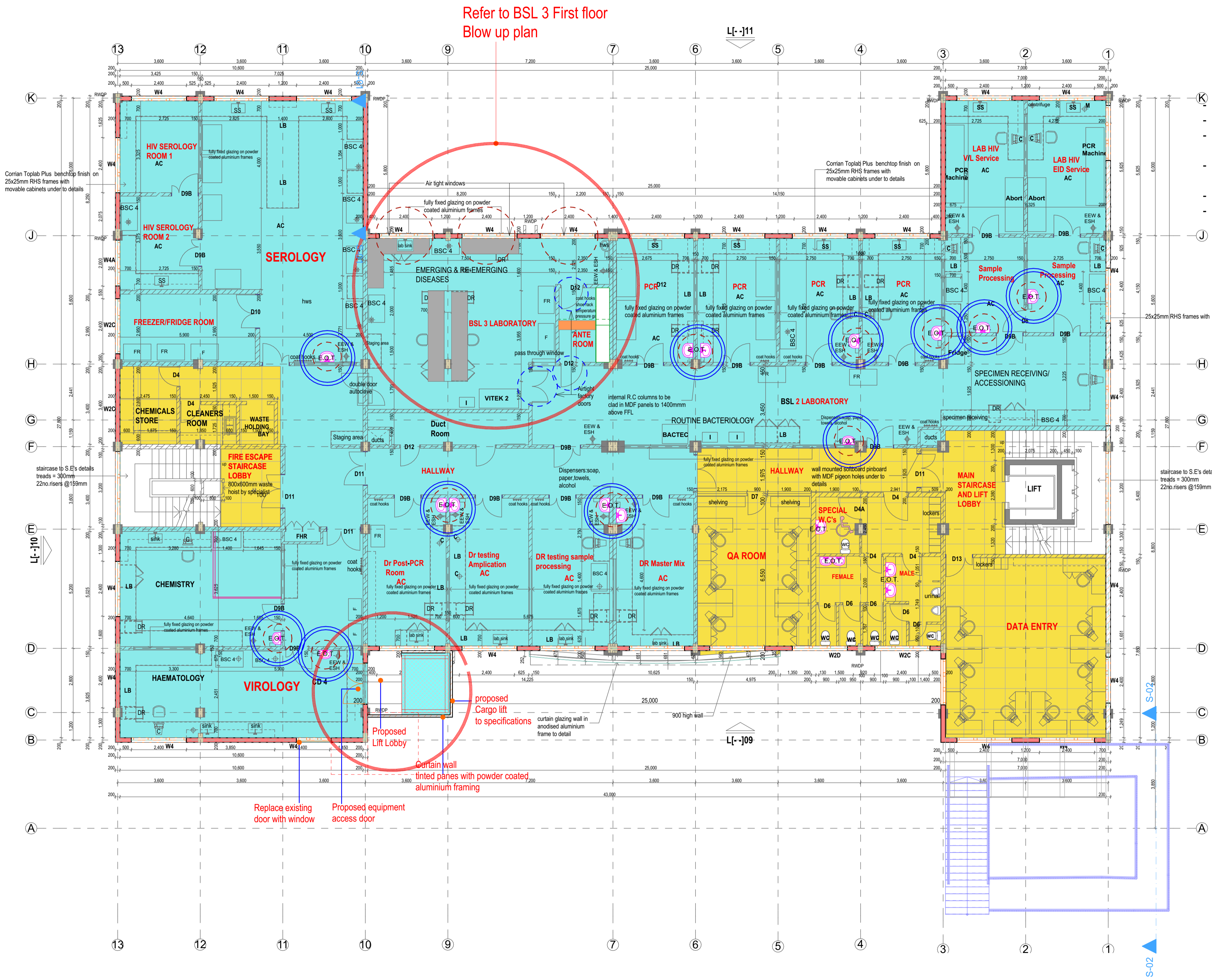
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Revision	Date

**LEGEND**

- Area highlight
- Areas to be worked on labelled in red
- Areas where no action is to be taken labelled in black
- Floor tiles finish cover area
- Epoxy floor finish cover area
- Leakages
- Bench top to be finished to BSL standards
- Bench section to be demolished to accommodate additional equipment/equipments access
- Step over bench to BSL 3 ante room requirements
- 2 tier rack/shelve to BSL3 Standards
- Cabinets/shelves for PPES, PCR/ Emergency kits to BSL3 Ante room Standards
- Marked wash hand basin taps to be changed

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**FIRST FLOOR LAYOUT  
SCALE 1:100**

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Architects signature.....  
Client  
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NAIROBI.**  
MANAGED BY  
**AMREF HEALTH AFRICA IN KENYA  
P.O BOX 30125-00100  
WILSON AIRPORT,  
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Client sign.....

Project Title  
**PROPOSED RENOVATION AND MAINTENANCE OF BSL III LABORATORIES AT  
NATIONAL PUBLIC HEALTH LABORATORY (BLOCK B) AT THE DEPARTMENT OF  
LABORATORY SERVICES, MINISTRY OF HEALTH.**  
ON  
**KENYATTA NATIONAL HOSPITAL GROUNDS- OFF NGONG ROAD**  
Project No. TD/INKU/22/04/125  
Drawing Title  
**FIRST FLOOR**

FIRST FLOOR PLINTH AREA:  
Drawing Status  
**WORKING DRAWINGS**  
Drawn by Renovations/Design by Checked by Date  
Arch. Boaz. Kim JAN, 2025  
Scales  
**1:100**  
Drawing Number Status Revision

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16. 2x9 kg Dry Powder Fire Extinguishers at areas shown.
17. 2x9 litre water and 1x4.5 kg CO2 fire extinguishers to be provided per floor.

**SUMMARY OF RENOVATION WORKS AT SECOND FLOOR LEVEL**

Replace the indicated eight wash hand basin taps to elbow operated taps.

Carefully remove all the existing dilapidated epoxy floor finish including the underlying poor cement sand screed and dispose off the debris. Prepare the surface and install Epoxy floor finish according to manufactures requirements and as per the attached builders work specifications.

Introduce a cargo lift at the indicated area on the plan layout as per the attached builders work specifications.

Inspect for any cracked, broken or loose tiles, remove and dispose of the debris. Replace/fix tiles as per the attached builders work specifications and make good any affected walling, plaster work or paintwork.

Inspect for any existing cracks and repair as per the procedure in the specifications.

Inspect drainage pipeworks and AC ductwork leakages, concrete gutters overflow, ingress through windows or openings, along the ceiling and wall, analyse the cause and repair accordingly, making good any affected walling, plaster work, ceiling panels or paint work as a result of leakages or its repair. Check all areas not only indicated areas.


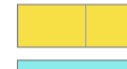





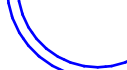
Inspect all aluminium windows for any locking and opening problems and repair accordingly.

Inspect all wooden doors locking mechanism and repair accordingly.

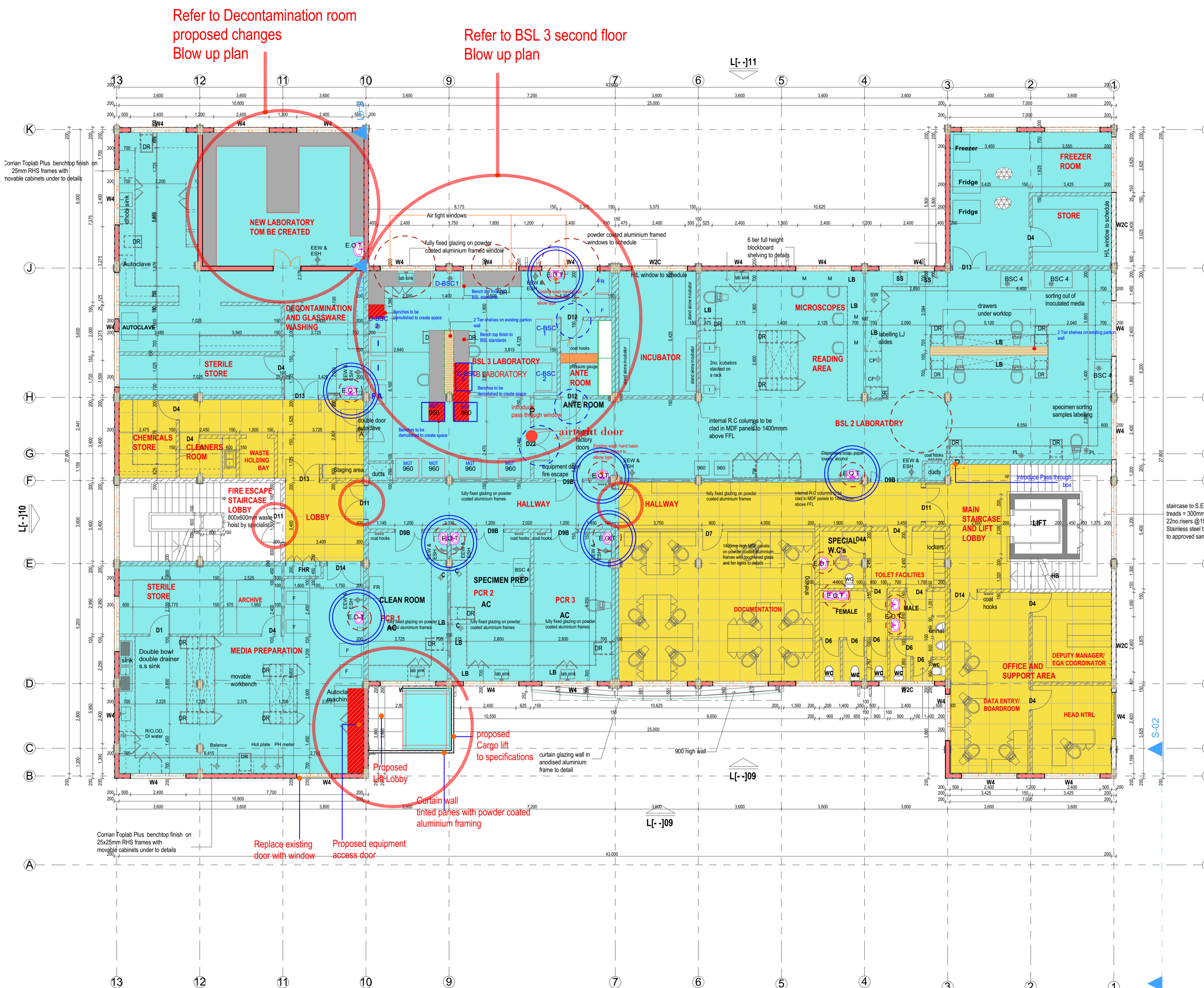
Specific BSL 3 renovation works as per the attached URS.

Other works as per the attached user requirement specifications.

**LEGEND**

-  Area highlight
- Areas where no action is to be taken labelled in black
-  Floor tiles finish cover area
-  Epoxy floor finish cover area
-  Bench top to be finished to BSL standards
-  Bench section to be demolished to accommodate additional equipment/access for equipment
-  Step over bench to BSL 3 ante room requirements
-  2 tier rack/shelve to BSL3 Standards
-  Cabinets/shelves for PPES, PCR/ Emergency kits to BSL3 Ante room Standards
-  Marked wash hand basin taps to be changed

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- D-BSC - DIRTY BIOSAFETY CABINET
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Refer to Decontamination room proposed changes Blow up plan

Refer to BSL 3 second floor Blow up plan

Replace existing door with window

Proposed equipment access door

Proposed Cargo lift to specifications

Curtain wall tinted panes with powder coated aluminium framing

**SECOND FLOOR LAYOUT  
SCALE 1:100**

Architects signature.....	
Client NATIONAL PUBLIC HEALTH LABORATORY, DEPARTMENT OF LABORATORY SERVICES (DLS), MINISTRY OF HEALTH P.O. BOX 20750-00202, NAIROBI.	
MANAGED BY AMREF HEALTH AFRICA IN KENYA P.O. BOX 30125-00100 WILSON AIRPORT, NAIROBI.	
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ON KENYATTA NATIONAL HOSPITAL GROUNDS - OFF NGONG ROAD	
Project No. TD/INKU/22/04/125	
Drawing Title <b>SECOND FLOOR</b>	
SECOND FLOOR PLINTH AREA:	
Drawing Status <b>WORKING DRAWINGS</b>	
Drawn by	Renovations/Design by
Checked by	Date
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SUMMARY OF RENOVATION WORKS THIRD FLOOR LEVEL

Roof cover and details as existing to the indicated existing terraces.

Introduce a controll door to machine area( Air handling units)



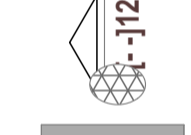
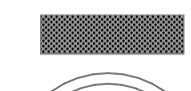

Introduce a cargo lift at the indicated area on the plan layout as per the attached builders work specifications.

Inspect for any existing cracks and repair as per the procedure in the specifications.

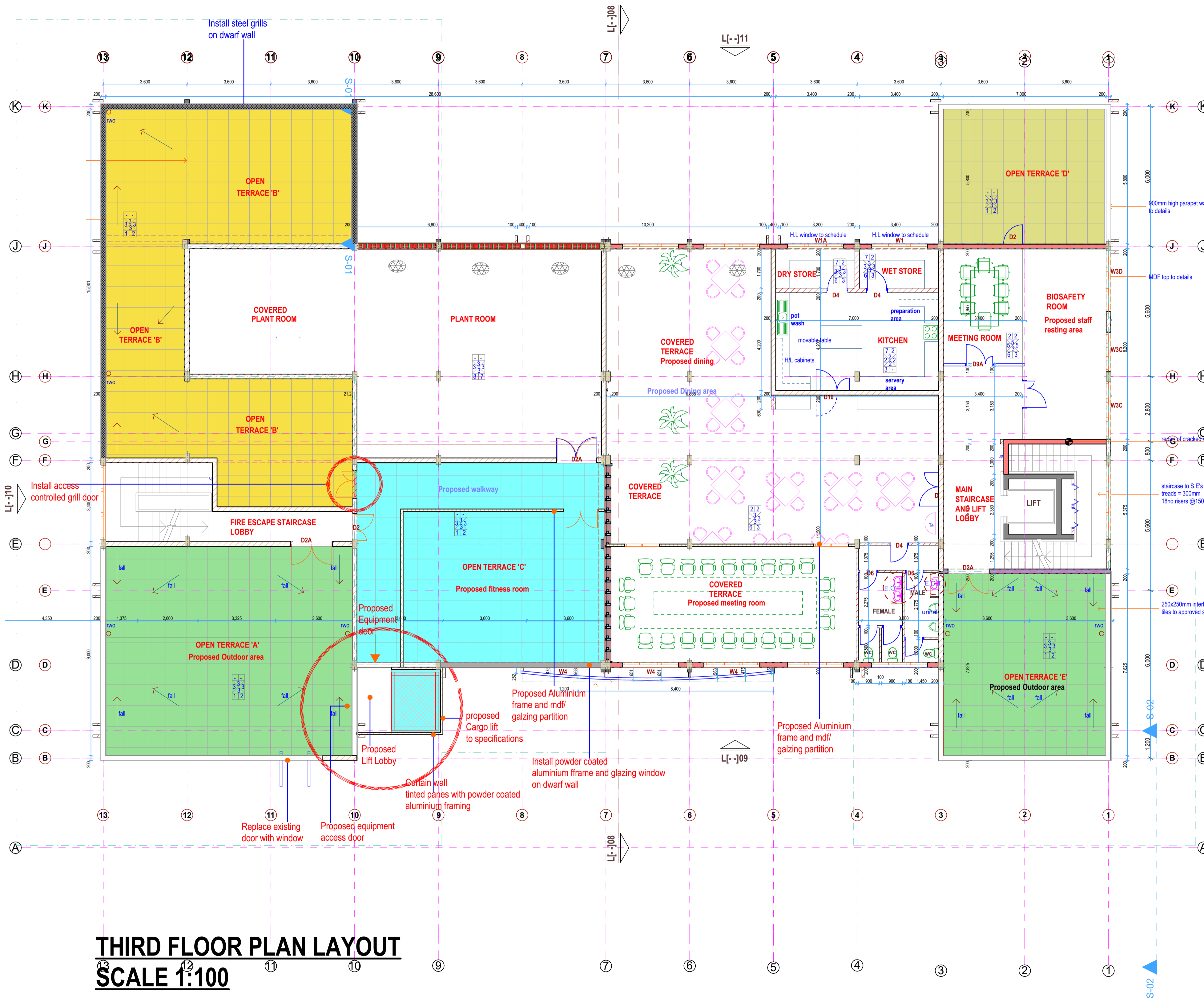
Inspect drainage pipeworks and roof leakages, concrete gutters overflow, ingress through windows or openings, along the ceiling and wall, analyse the cause and repair accordingly, making good any affected walling, plaster work, or paint work as a result of leakages or its repair. Check all areas.

Other works as per the attached User requirement specification document.

LEGEND

-  Area highlight
-  Areas to be worked on labelled in red
-  Proposed powder coated aluminium windows on dwarf wall
-  Proposed grills work area on dwarf walls
-  Proposed control door marker

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- F A- FREE STANDING AUTOCLAVE



**THIRD FLOOR PLAN LAYOUT**  
**SCALE 1:100**



**TETRA DESIGNS LIMITED**  
P.O BOX 12814-20100 NAKURU  
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EMAIL: info@tetradesigns.co.ke

Architects signature.....

Client  
NATIONAL PUBLIC HEALTH LABORATORY, DEPARTMENT OF  
LABORATORY SERVICES (DLS), MINISTRY OF HEALTH  
P.O. BOX 20750-00202,  
NAIROBI.

MANAGED BY  
AMREF HEALTH AFRICA IN KENYA  
P.O BOX 30125-00100  
WILSON AIRPORT,  
NAIROBI.

Client sign.....

Project Title  
PROPOSED RENOVATION AND MAINTENANCE OF BSL III LABORATORIES AT  
NATIONAL PUBLIC HEALTH LABORATORY (BLOCK B) AT THE DEPARTMENT OF  
LABORATORY SERVICES, MINISTRY OF HEALTH.  
ON  
KENYATTA NATIONAL HOSPITAL GROUNDS - OFF NGONG ROAD

Project No.TD/NKU/22/04/125

Drawing Title

THIRD FLOOR

THIRD FLOOR PLINTH AREA:

Drawing Status

WORKING DRAWINGS

Drawn by Renovations/Design by Checked by Date

Arch. Boaz. Kim JAN,2025

Scales

1:100

Drawing Number Status Revision

ARCHITECTURAL NOTES.

1. All works to be carried out in accordance with Local Authority regulations.
2. All figured dimensions to be taken in preference to scaled dimensions.
3. All walls below 200mm to be reinforced with hoop iron at every alternative course.
4. Provide damp proof course (D.P.C.) under all walls.
5. P.V. indicates permanent ventilations.
6. All drainage passing under building and drive area to be of pvc pipe and encased in 150mm thick concrete surround.
7. All inspection chambers in drive area to have heavy duty covers.
8. Check all dimensions on site.
9. All sanitary work to be in accordance with MOH rules and regulations and NCC requirements.
10. 500g polythene sheeting and anti-termite treatment to be provided under ground floor concrete slab.
11. All reinforced concrete works to Structural Eng. detail.
12. Automatic booster pump for FHRs to be provided to the satisfaction of the Chief Fire Officer.
13. 4500 litres reserve for hose reel
14. Electrical fire alarm system to the approval of Chief Fire Officer.
15. Fire alarm and booster to be provided with secondary power supply.
16. 2x9 kg Dry Powder Fire Extinguishers at areas shown.
17. 2x9 litre water and 1x4.5 kg CO2 fire extinguishers to be provided per floor.

**SUMMARY OF RENOVATION WORKS AT FOURTH FLOOR/ROOF PLAN LEVEL**

Roof cover and details as existing to the indicated existing terraces.

Proposed cargo lift roof cover, water drainage control to down pipes

All terrace space to have adequate gradient for water to flow, downpipes to be properly opened where applicable.

Inspect for any existing cracks and repair as per the procedure in the specifications.

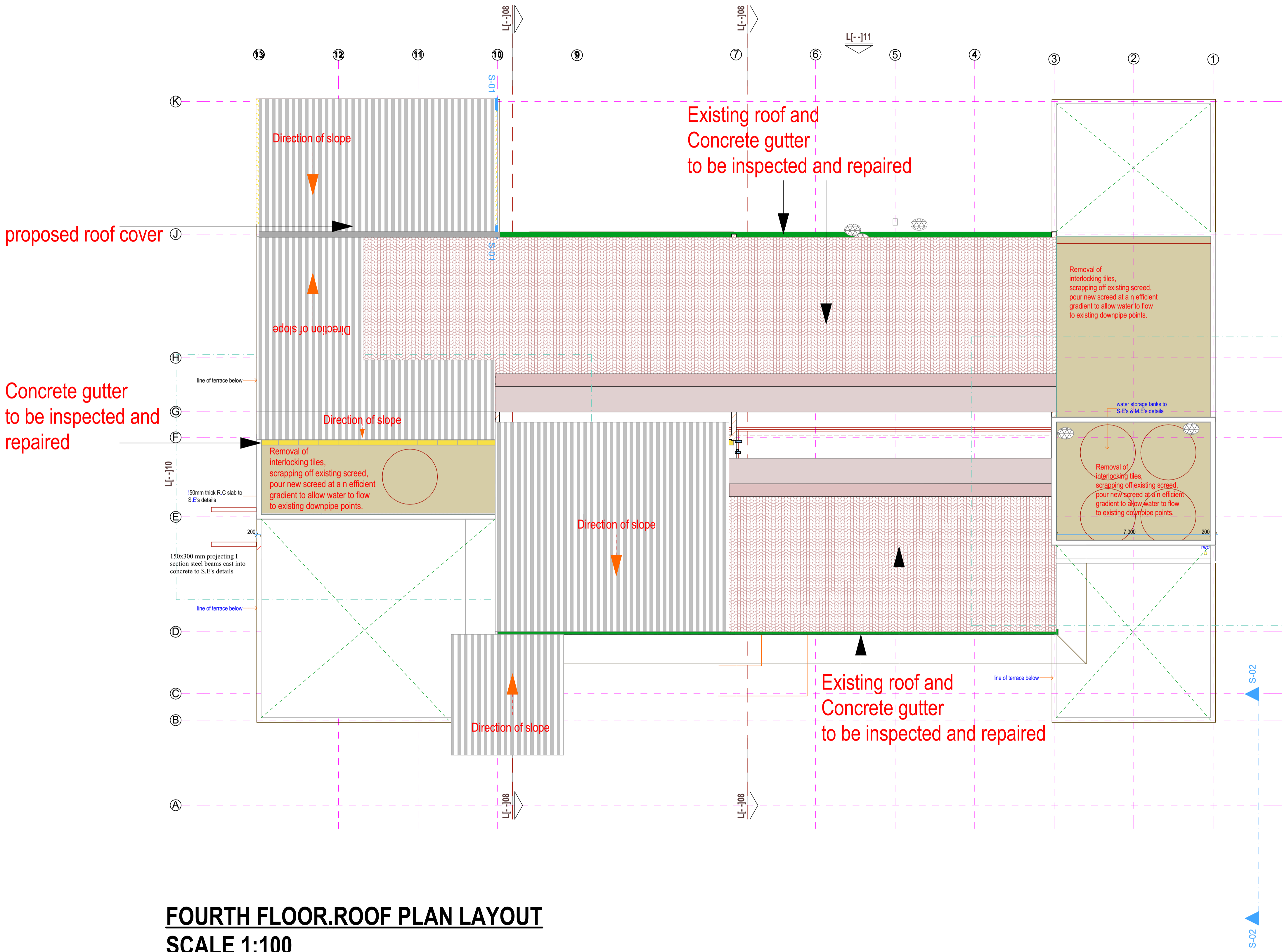
Inspect drainage pipeworks and roof leakages, concrete gutters overflow, ingress through windows or openings, along the ceiling and wall, analyse the cause and repair accordingly, making good any affected walling, plaster work, or paint work as a result of leakages or its repair. Check all areas.

Other works as per the attached User requirement specifications.

**LEGEND**

- Proposed new roof cover on existing on terrace
- Existing interlocking tiles to be repaired to an efficient gradient to allow water to flow to existing downpipe points.
- Concrete gutter
- Direction of new roof slope

- C-BSC - CLEAN BIOSAFETY CABINET
- D-BSC - DIRTY BIOSAFETY CABINET
- B6 - BSC 6ft.
- B4 - BSC 4ft.
- HWS - HANDWASH SINK
- S - SINK
- F - FRIDGE
- Fr - FREEZER
- I - INCUBATOR
- C - CENTRIFUGE
- 960 - MGT960
- P - PASS THROUGH INCLUDING SPECIMEN PLACEMENT BASE TO REQUIREMENTS
- E - EQUIPMENT DOOR
- W - VIEWING SEALED WINDOW
- SH - SHOWER
- EEW-EMERGENCY EYE WASH
- ESH-EMERGENCY SHOWER
- DR - DRAWERS
- A - AUTOCLAVE
- PL - PRINTER LABEL
- HB - HIGH BENCH\_1050mm high
- LB - LOW BENCH\_ 900mm high
- E.O.T. ELBOW OPERATED TAPS
- F A- FREE STANDING AUTOCLAVE



**FOURTH FLOOR.ROOF PLAN LAYOUT**  
**SCALE 1:100**

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Client sign.....

Project Title  
PROPOSED RENOVATION AND MAINTENANCE OF BSL III LABORATORIES AT NATIONAL PUBLIC HEALTH LABORATORY (BLOCK B) AT THE DEPARTMENT OF LABORATORY SERVICES, MINISTRY OF HEALTH.

ON  
KENYATTA NATIONAL HOSPITAL GROUNDS -OFF NGONG ROAD

Project No.TD/NKU/22/04/125

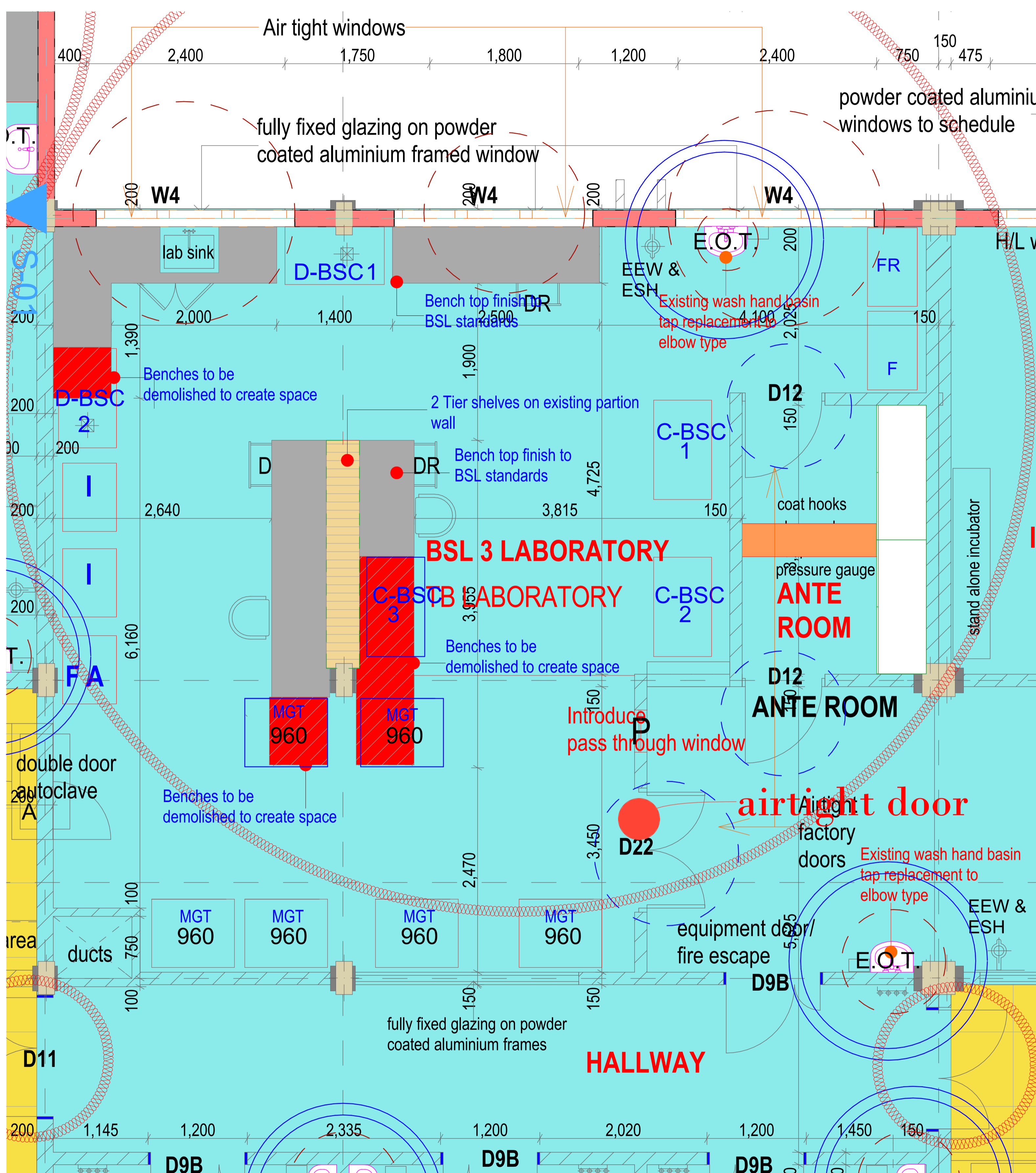
Drawing Title  
FOURTH FLOOR

FOURTH FLOOR PLINTH AREA:  
Drawing Status  
**WORKING DRAWINGS**

Drawn by Renovations/Design by Checked by Date  
Arch. Boaz. Kim JAN,2025

Scales  
1:100

Drawing Number Status Revision



### SUMMARY OF RENOVATION WORKS IN BSL3 AT SECOND FLOOR LEVEL

Carefully remove all the existing dilapidated epoxy floor finish including the underlying poor cement sand screed and dispose off the debris. Prepare the surface and install Epoxy floor finish according to manufacturers requirements and as per the attached builders work specifications or an equivalent floor finish that is cost effective, durable, chemical resistant and easy to clean.

Inspect for any existing cracks and repair as per the procedure in the specifications.

Inspect for drainage/supply pipework leakages, water ingress through windows or openings, along the ceiling and wall, analyse the root cause and repair accordingly, making good any affected walling, plaster work, or paint work as a result of leakages or its repair. Check all areas within the BSL3.

Inspect and ensure that the dilution trap under the laboratory sink exists and /or is fully functional in treatment of the laboratory waste before connecting to the main drainage line.

Carefully Remove part of the benches as indicated in the layout and dispose off to accommodate additional equipment, making good all the affected areas.

Carefully stripping off the peeling of wall and ceiling paintwork, prepare the surface and apply epoxy paint as per the manufacturers requirements to suit BSL3, or wall and ceiling finish that is functional equivalent in a BSL3 that is cost effective, durable, chemical resistant and easy to clean.

Replace the existing worktop/bench finish with either epoxy or functionally equivalent finish in a BSL3 bench finish that is cost effective, durable, chemical resistant and easy to clean.

Introduce a pass through window at the indicated area in the layout.

Inspect and ensure that the existing aluminium windows are airtight.

Inspect and ensure that the equipment access door and ante room doors are airtight, or can be repaired to be airtight or replaced with airtight doors of similar sizes applicable within BSL3 and ante room.

Introduce applicable storage cabinets and step over bench in the ante room at the areas indicated in the layout.

Other works as per the attached URS

- LEGEND**
- Floor tiles finish cover area
  - Epoxy floor finish cover area
  - Leakages
  - Bench top finish to be cost effective, durable, chemical resistant and easy to clean
  - Bench section to be carefully demolished and carefully disposed off to accommodate additional equipment.
  - 1600mm long x 400mm wide x 400mm high and fully open on one side for shoe storage. Stainless steel stepover bench or equivalent
  - 2750mm long x 400mm wide x 600mm high stainless steel shelf.
  - 3200mm long x 600mm wide x 2100mm high stainless steel cupboard for PPES, PCR/ Emergency kits storage
  - Marked wash hand basin tap to be changed or supply or drainage pipe leakages to be inspected and rectified.
- C-BSC - CLEAN BIOSAFETY CABINET  
 D-BSC - DIRTY BIOSAFETY CABINET  
 B6 - BSC 6ft.  
 B4 - BSC 4ft.  
 HWS - HANDWASH SINK  
 S - SINK  
 F - FRIDGE  
 Fr. - FREEZER  
 I - INCUBATOR  
 C - CENTRIFUGE  
 960 - MGT960  
 P - PASS THROUGH INCLUDING SPECIMEN PLACEMENT BASE TO REQUIREMENTS  
 E - EQUIPMENT DOOR  
 W - VIEWING SEALED WINDOW  
 SH - SHOWER  
 EEW-EMERGENCY EYE WASH  
 ESH-EMERGENCY SHOWER  
 DR - DRAWERS  
 A - AUTOCLAVE  
 PL - PRINTER LABEL  
 HB - HIGH BENCH\_1050mm high  
 LB - LOW BENCH\_900mm high  
 E.O.T-ELBOW OPERATED TAPS  
 F A- FREE STANDING AUTOCLAVE

### ARCHITECTURAL NOTES.

1. All works to be carried out in accordance with Local Authority regulations.
2. All figured dimensions to be taken in preference to scaled dimensions.
3. All walls below 200mm to be reinforced with hoop iron at every alternative course.
4. Provide damp proof course (D.P.C.) under all walls.
5. P.V. indicates permanent ventilations.
6. All drainage passing under building and drive area to be of pvc pipe and encased in 150mm thick concrete surround.
7. All inspection chambers in drive area to have heavy duty covers.
8. Check all dimensions on site.
9. All sanitary work to be in accordance with MOH rules and regulations and NCC requirements.
10. 500g polythene sheeting and anti-termite treatment to be provided under ground floor concrete slab.
11. All reinforced concrete works to Structural Eng. detail.
12. Automatic booster pump for FHRs to be provided to the satisfaction of the Chief Fire Officer.
13. 4500 litres reserve for hose reel
14. Electrical fire alarm system to the approval of Chief Fire Officer.
15. Fire alarm and booster to be provided with secondary power supply.
16. 2x9 kg Dry Powder Fire Extinguishers at areas shown.
17. 2x9 litre water and 1x4.5 kg CO2 fire extinguishers to be provided per floor.

Revision	Date

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Architects signature.....

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P.O. BOX 20750-00202, NAIROBI.  
MANAGED BY  
**AMREF HEALTH AFRICA IN KENYA**  
P.O BOX 30125-00100 WILSON AIRPORT, NAIROBI.

Project Title  
**PROPOSED RENOVATION AND MAINTENANCE OF BSL 3 LABORATORIES AT NATIONAL PUBLIC HEALTH LABORATORY (BLOCK B) AT THE DEPARTMENT OF LABORATORY SERVICES, MINISTRY OF HEALTH.**  
OR  
**KENYATTA NATIONAL HOSPITAL GROUNDS- OFF NGONG ROAD**  
Project No. TD/IKU/22/04/125  
Drawing Title  
**BSL 3 FLOOR PLAN LAYOUT(SECOND FLOOR)**

FOURTH FLOOR PLINTH AREA:  
Drawing Status  
**WORKING DRAWINGS**

Drawn by Renovations/Design by Checked by Date  
Arch. Boaz. Kim JAN,2025

Scales  
**1:100**

Drawing Number Status Revision

**BSL 3 FLOOR PLAN LAYOUT(SECOND FLOOR)  
SCALE 1:100**



1. All works to be carried out in accordance with Local Authority regulations.
2. All figured dimensions to be taken in preference to scaled dimensions.
3. All walls below 200mm to be reinforced with hoop iron at every alternative course.
4. Provide damp proof course (D.P.C.) under all walls.
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13. 4500 litres reserve for hose reel.
14. Electrical fire alarm system to the approval of Chief Fire Officer.
15. Fire alarm and booster to be provided with secondary power supply.
16. 2x9 kg Dry Powder Fire Extinguishers at areas shown.
17. 2x9 litre water and 1x4.5 kg CO2 fire extinguishers to be provided per floor.

SUMMARY OF RENOVATION WORKS IN BSL3 AT FIRST FLOOR LEVEL

Carefully remove all the existing dilapidated epoxy floor finish including the underlying poor cement sand screed and dispose off the debris. Prepare the surface and install Epoxy floor finish according to manufacturers requirements and as per the attached builders work specifications or an equivalent floor finish that cost effective, durable, chemical resistant and easy to clean.

Inspect for any existing cracks and repair as per the procedure in the specifications.

Inspect for drainage/supply pipework leakages, water ingress through windows or openings, along the ceiling and wall, analyse the root cause and repair accordingly, making good any affected walling, plaster work, or paint work as a result of leakages or its repair. Check all areas within the BSL3.

Inspect and ensure that the dilution trap under the laboratory sink exists and /or is fully functional in treatment of the laboratory waste before connecting to the main drainage line.

Carefully stripping off the peeling of wall and ceiling paintwork, prepare the surface and apply epoxy paint as per the manufacturers requirements to suit BSL3, or wall and ceiling finish that is functionally equivalent in a BSL3 facility, that is cost effective, durable, chemical resistant and easy to clean.

Replace the existing worktop/bench finish with either epoxy or functionally equivalent finish in a BSL3 bench finish that is cost effective, durable, chemical resistant and easy to clean.

Introduce a pass through window at the indicated area in the layout.

Inspect and ensure that the existing aluminium windows are airtight.

Inspect and ensure that the equipment access door and ante room doors are airtight, or can be repaired to be airtight or replaced with airtight doors of similar sizes applicable within BSL3 and ante room.

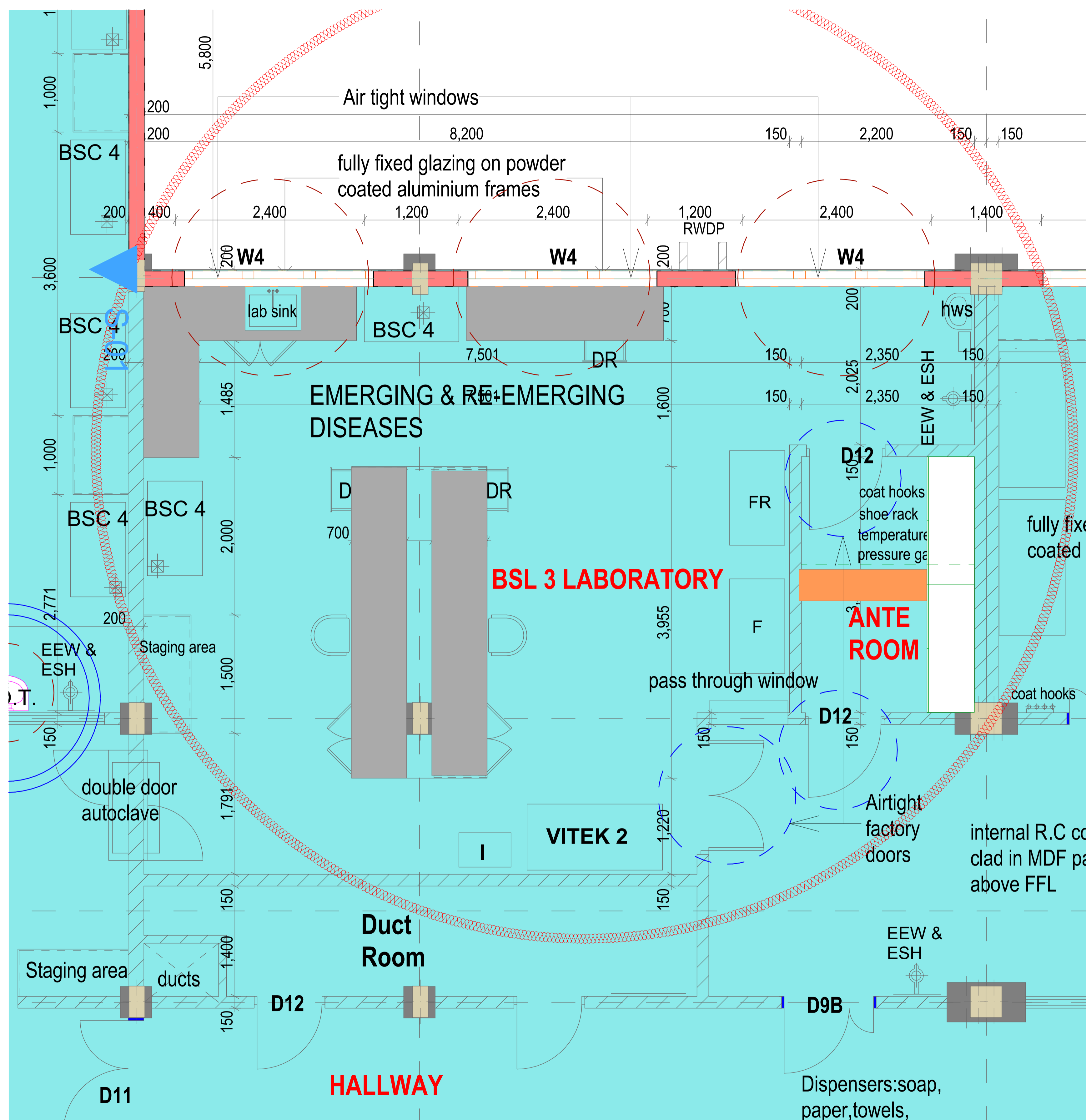
Introduce applicable storage cabinets and step over bench in the ante room at the areas indicated in the layout.

Other works as per the attached URS.

**LEGEND**

- Floor tiles finish cover area
- Epoxy floor finish cover area
- Leakages
- Bench top finish to be cost effective, durable, chemical resistant and easy to clean
- 1600mm long x 400mm wide x 400mm high and fully open on one side for shoe storage  
Stainless steel stepover bench or equivalent
- 3200mm long x 600mm wide x 2100mm high Stainless steel cupboard for PPES, PCR/  
Emergency kits storage
- Equipment access door/ante room doors

- C-BSC - CLEAN BIOSAFETY CABINET
- D-BSC - DIRTY BIOSAFETY CABINET
- B6 - BSC 6ft.
- B4 - BSC 4ft.
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- F A- FREE STANDING AUTOCLAVE



**BSL 3 FLOOR PLAN LAYOUT(FIRST FLOOR)  
SCALE 1:100**

Revision	Date

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Architects signature.....

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Client sign.....

Project Title  
 PROPOSED RENOVATION AND MAINTENANCE OF BSL III LABORATORIES AT  
 NATIONAL PUBLIC HEALTH LABORATORY (BLOCK B) AT THE DEPARTMENT OF  
 LABORATORY SERVICES, MINISTRY OF HEALTH.

ON  
 KENYATTA NATIONAL HOSPITAL GROUNDS -OFF NGONG ROAD

Project No.TD/NKU/22/04/125

Drawing Title  
**FOURTH FLOOR**

FOURTH FLOOR PLINTH AREA:

Drawing Status  
**WORKING DRAWINGS**

Drawn by Renovations/Design by Checked by Date  
 Arch. Boaz. Kim JAN,2025

Scales  
 1:100

Drawing Number Status Revision

**ARCHITECTURAL NOTES.**

1. All works to be carried out in accordance with Local Authority regulations.
2. All figured dimensions to be taken in preference to scaled dimensions.
3. All walls below 200mm to be reinforced with hoop iron at every alternative course.
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Revision	Date



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Client sign.....

Project Title  
 PROPOSED RENOVATION AND MAINTENANCE OF BSL III LABORATORIES AT NATIONAL PUBLIC HEALTH LABORATORY (BLOCK B) AT THE DEPARTMENT OF LABORATORY SERVICES, MINISTRY OF HEALTH.

ON  
**KENYATTA NATIONAL HOSPITAL GROUNDS -OFF NGONG ROAD**

Project No TD/NKU/22/04/125

Drawing Title  
**EXTERNAL WORKS (SITE PLAN)**

Drawing Status  
**WORKING DRAWINGS**

Drawn by Renovations/Design by Checked by Date  
 Arch. Boaz. Kim JAN,2025

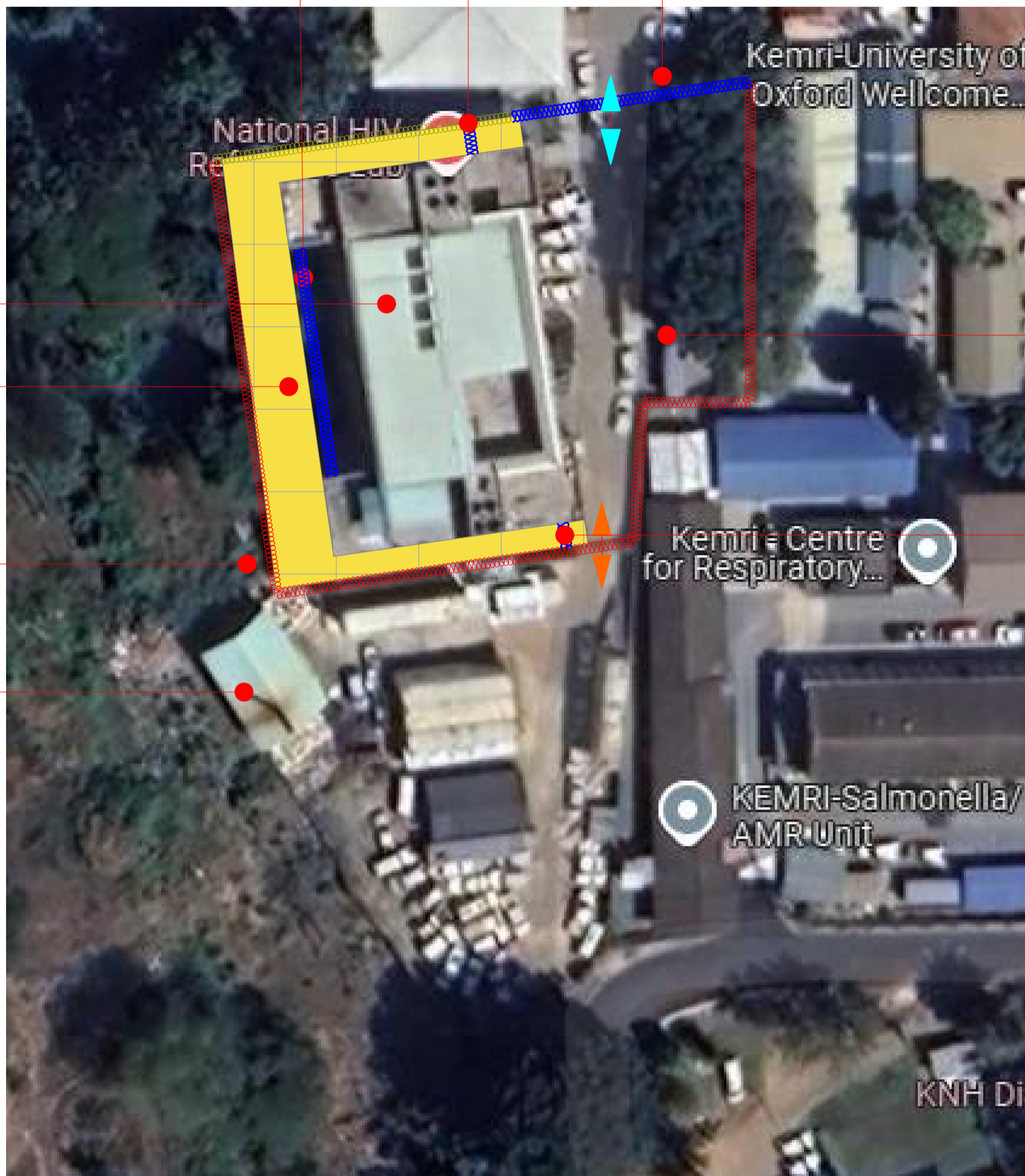
Scales  
 1:100

Drawing Number Status Revision

**GRILLS BARRIER AND ACCESS CONTROL GATE**

**GRILLS BARRIER AND GATE TO BE DONE AT THE BACK**

**GRILLS AND SLIDING GATE**



**BLOCK B**

**AREA TO BE PAVED**

**EXISTING MASONRY PERIMETER WALL TO BE EXTENDED**

**INCINERATOR**

**NEW GENERATOR HOUSE POSITION**

**GRILLS BARRIER AND GATE TO BE DONE AT THE BACK**

**SUMMARY OF OTHER EXTERNAL RENOVATION WORKS**

Masonry boundary wall construction/extension, Grills and access controlled gates construction as described in the attached USR, including electric fence and razor wire.

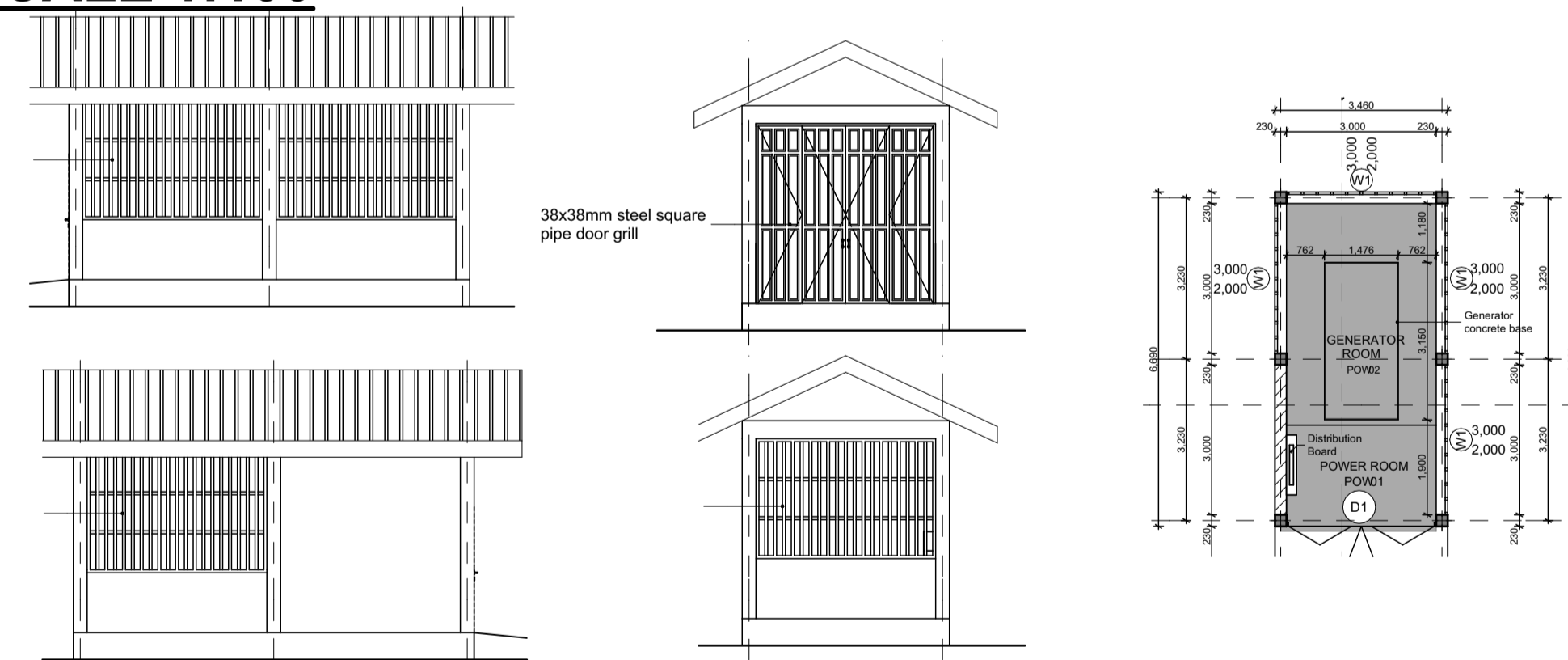
Installing paving blocks at the back and sides of the building. Installation of a new generator house at the specified position.

**LEGEND**

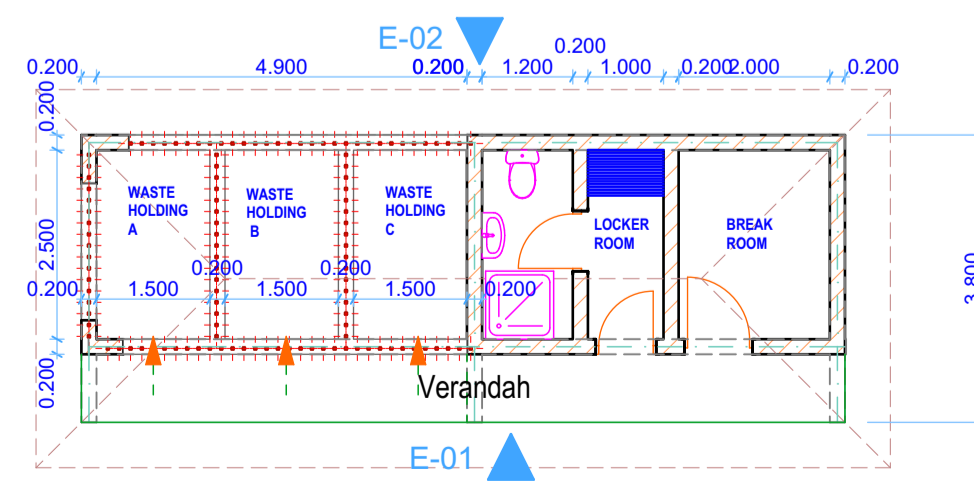
- EXISTING BOUNDARY WALL TO BE EXTENDED AS PER THE USER REQUIREMENTS
- NEW ADDITIONAL WALLING ON EXISTING RETAINING WALL
- NEW SECURITY GRILL AND GATE TO BE DONE
- SLIDING GRILL GATE
- STEEL DOUBLE SWING GATE
- AREA TO BE PAVED

**GENERATOR HOUSE PROPOSAL**

**SCALE 1:100**

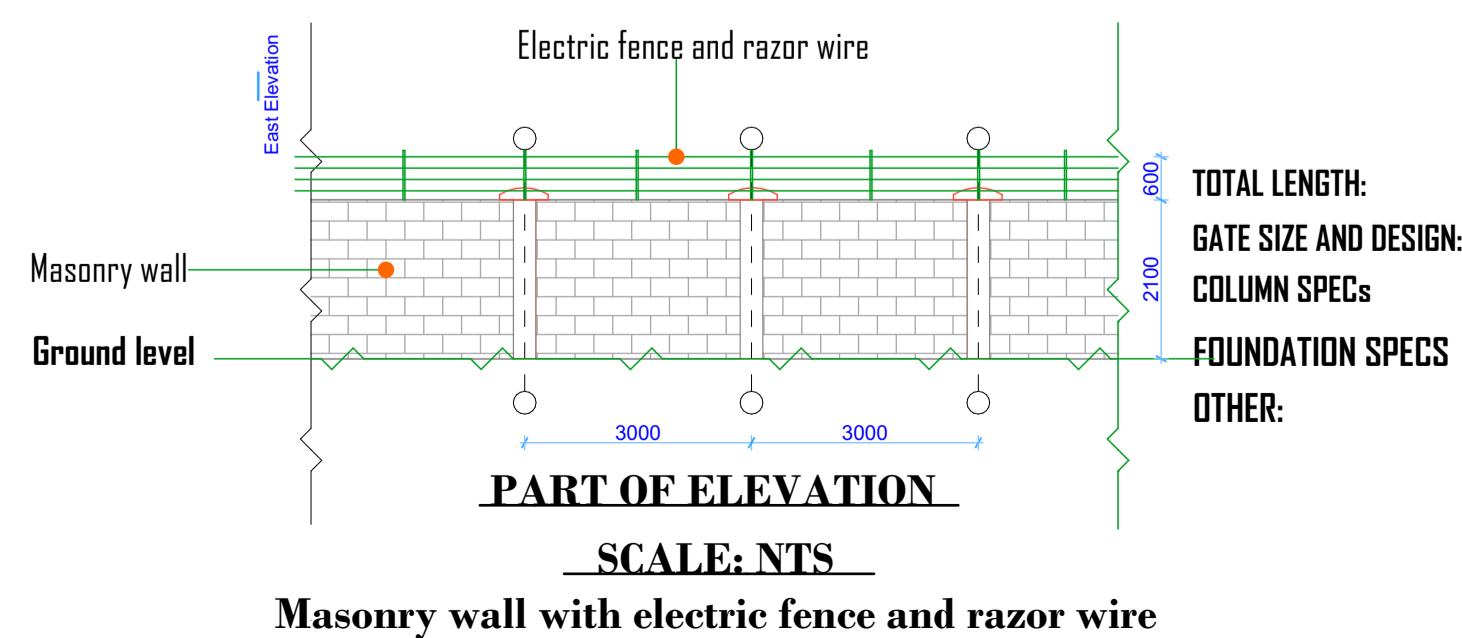


metal grills at 150mm centres

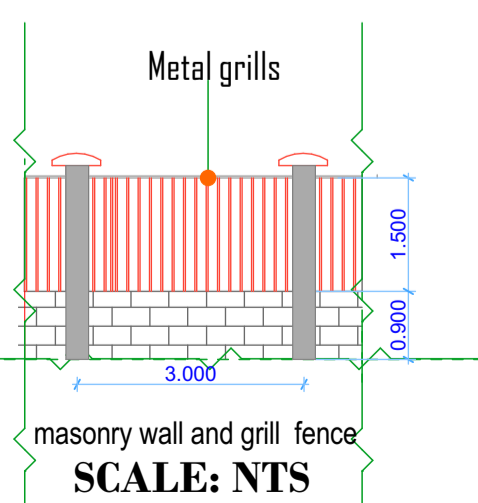


**Waste Holding area, w/locker room and break room SKETCH SCALE: NTS**

**EXTERNAL WORKS (SITE PLAN) SCALE 1:100**



To be determined upon site measurement as per the marked areas  
 Double swing Grill steel gate of width 4800mm.  
 300 x 200 mm columns at 3,000mm centre to centre  
 Details to be determined upon site visit, analysis of soil conditions  
 As per the attached specifications



SCALE: NTS