



Kenya Marine Fisheries Socioeconomic
Development Project (KEMFSED)
P.O. Box 58187-00200
NAIROBI



MINISTRY OF MINING, BLUE ECONOMY AND MARITIME AFFAIRS

Request for Bids

CONSTRUCTION OF LAMU FISHERIES OFFICE

Employer: State Department for Blue Economy & Fisheries
Project: Kenya Marine Fisheries Socio-Economic
Development Project (KEMFSED)
Contract Title: CONSTRUCTION OF LAMU FISHERIES OFFICE
Country: Republic of Kenya
Loan No./Credit No/Grant No.: 6540-KE
RFBNo.: KE-MOMBE&MA-LM-2024-011-CW
Issued on: 13TH FEBRUARY 2024

VOLUME 4 OF 4

DRAWINGS

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PROPOSED DEVELOPMENT OF FISHERIES OFFICES IN LAMU.

PROPOSED DEVELOPMENT OF FISHERIES OFFICES IN LAMU.					
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NOTES:

GENERAL

1. All measurements are shown in millimeters. Measurements should not be scaled off the drawing.
2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000 gauge polythene on 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURA

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICA

12. All plumbing and drainage to comply with the relevant standards.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or service pipes. All bends and junctions to have a minimum 100mm radius.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing between buildings and driveways to be protected by a concrete slab.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS8514 and S2255. cast iron to comply to BS85 497 table c grade C except ones in the basement which shall comply to BS8556.
18. All inspection chamber covers and frames shall be cast iron to comply to BS85 497 table c grade C except one to BS8556.
19. Storm water drain shall comply to BS8556.
20. Minimum sloping shall be 1 in 100.
21. No chasing will be allowed in the slabs for pipes.
22. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
23. All testing of pipes must be completed before plastering.
24. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :

PROPOSED KENYA MARINE & SOCIO-ECONOMIC DEVELOPMENT

Plot L. R. No.:

Location :
**LAMU FISHERIES OFFICE,
LAMU COUNTY**

Client :

**STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY**

DRAWING NO.

Signature

Subject :

WORKING DRAWINGS.

Consultancy

ARPRIM CONSULTANTS
P.O BOX 12969-0040 NAIROBI
TEL: 020-884312/8
Website :www.arprimconsultants.com

Drawn by: PETER MOMANYI B. Arch. (Hons).	Checked by: - F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by: - J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
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Date: NOV 2023

Job No . 2023/Nov/KIDONGC

Scale 1:100

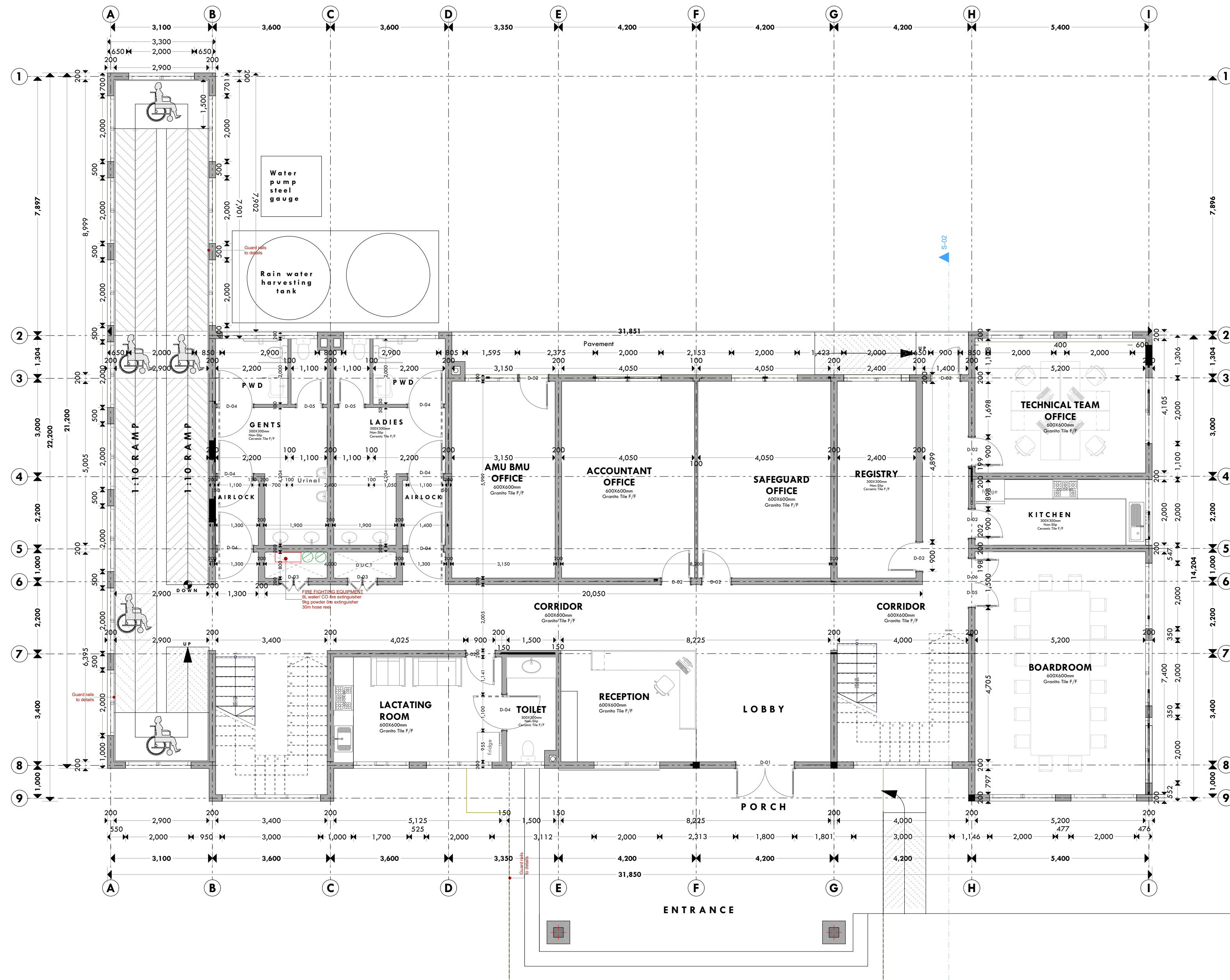
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23 Job No. 2023/Nov/KIDONGO

1000

GROUND FLOOR

03 ELEVATION



04 ELEVATION

02 ELEVATION

01 ELEVATION

NOTES:

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3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polythene on 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL
EVALUATION

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant approving local authority's specifications.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or waste pipes. All bends and junctions to have cleanout caps.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surround.
17. All underground drains and downpipes shall be UPVC and comply to BS 4514 and S285. Cast iron to comply to BS 497 taph 6 grade C except ones in the ground which shall comply to BS 497 taph 6 grade D.
18. All inspection chamber covers and frames shall cast iron to comply to BS 497 taph 6 grade C except cast iron to BS 497 taph shall comply to BS 556.
19. Storm water drain shall comply to BS 556.
20. Minimum slopes to be as follows:
 - a) Downpipes 1 in 40
21. No chasing will be allowed in the slabs for pipes. Sleeves will be allowed in the slabs with the written approval of the structural Engineer.
22. All testing of pipes must be completed before plastering.
23. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

- 24. All conduits must be laid before plastering.
 - 25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.
- FIRE**
- 26. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
 - 27. Provide underground water tank with automatic electric booster pump for ring main
 - 28. provide automatic push button fire alarm system
 - 29. provide heat and smoke detectors in each room
 - provide 9kg, dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :	
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**PROPOSED KENYA MARINE &
SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location :
**LAMU FISHERIES OFFICE,
LAMU COUNTY**

Client:

**STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY**

DRAWING NO.

04 - 001 - 002

Signature

Subject :

WORKING DRAWINGS.

Consultancy :

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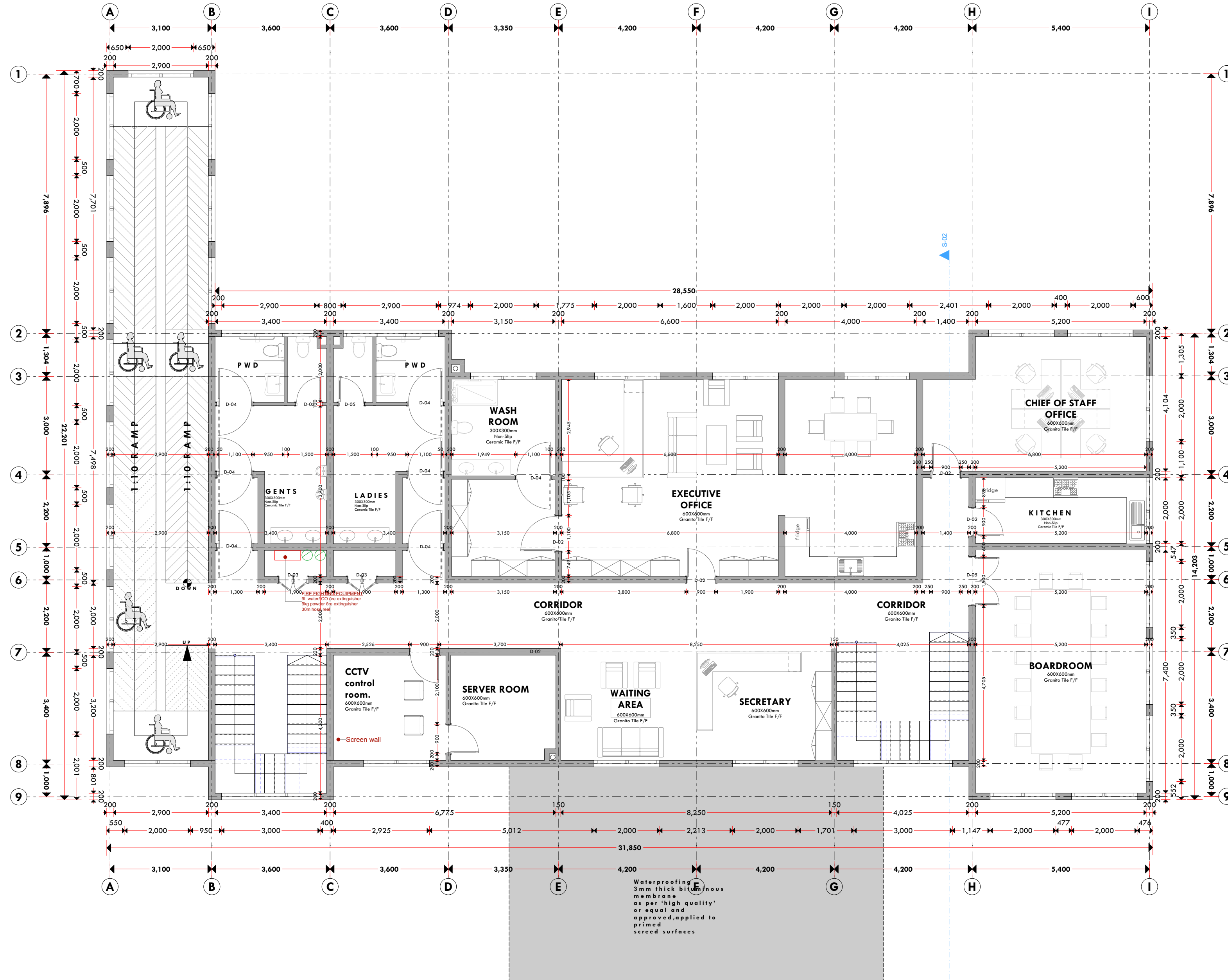
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10

2ND FLOOR

03 ELEVATION



04 ELEVATION

02 ELEVATION

01 ELEVATION

NOTES:

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3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

- ### CONSTRUCTION
4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
 5. All slab at grade to be poured on 1000gauge polythene on 50mm stone dust blinding on compacted hardcore.
 6. All soils under slab and around external foundation to be treated for termite control.
 7. Window cills must be finished before internal plastering

CIVIL
C. All calls

- CIVIL**
8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL
EVALUATION

- STRUCTURAL**
9. All RC works to Structural Engineer's details.
 10. Depth of foundation to be determined on site to SE approval.
 11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

- MECHANICAL
41. All plumbing and drainage to comply with the relevant approving local authority's specifications.
42. All service ducts to be accessible from all floors.
43. Deep seal or anti-vac to all fittings connecting to the SVPs or waste pipes. All bends and junctions to have inspection plates.
44. SVP to be provided at the head of the drainage.
45. Drain pipes passing beneath buildings & driveways to be encased in 150mm concrete surround.
46. All underground foul and waste drain pipes shall be cast in concrete to BS 4314 and 5255, cast iron to BS 4597 table 6 grade C except ones in the driveway which shall comply to BS 556.
48. All inspection chamber covers and frames shall be cast iron to comply to BS 4314 and 5255, except
49. Storm water drain shall comply to BS 556.
50. Minimum slopes to drains shall be 1%.
51. No chasing will be allowed in the slabs for pipes.
52. Joleys will be provided in the slabs with the written approval of the Structural Engineer.
53. All testing of pipes must be completed before plastering.
54. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

- ELECTRICAL**
24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

- FIRE**
26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

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Project :	
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**PROPOSED KENYA MARINE &
SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location :
**LAMU FISHERIES OFFICE,
LAMU COUNTY**

Client:

**STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY**

DRAWING NO.

04 - 001 - 004

Signature

Subject :

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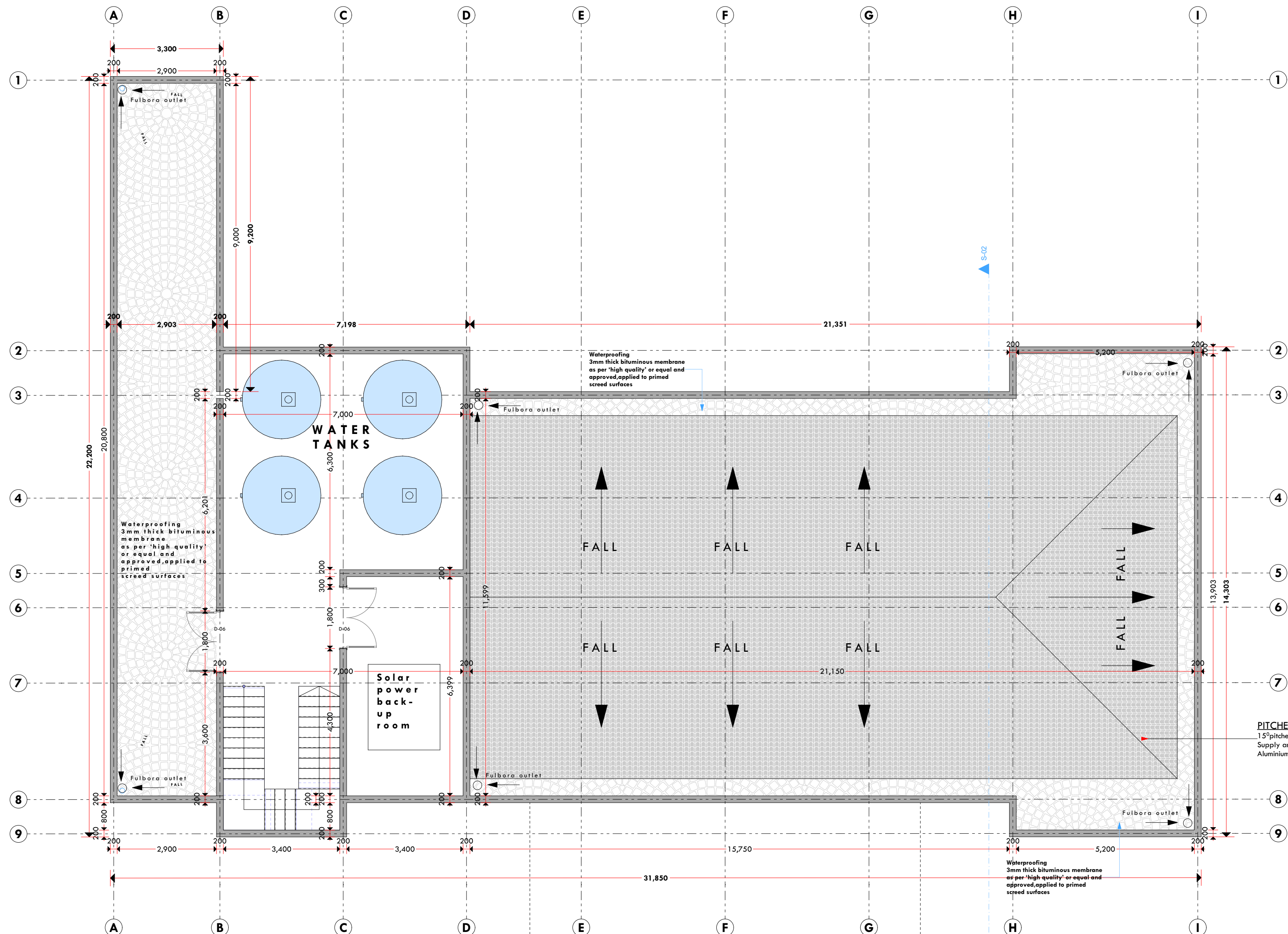
Date: NOV 2023	Job No. 2023/Nov/KIDONGO
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Scale 1:100

114

ROOF PLAN

03 ELEVATION



04 ELEVATION

02 ELEVATION

01 ELEVATION

NOTES:

GENERAL

1. All measurements are shown in millimeters. Measurements should not to be scaled off the drawing.
2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant approved local authority's specifications.
13. All cesspits to be located at least 10m from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or waste pipes. All bends and junctions to have inspection plates.
15. SVPs to be located at the head of the drainage.
16. Drain pipes passing beneath buildings and drains to be encased in 150mm concrete surround.
17. All underground drains to be cast iron pipes to be UPVC and comply with BS 85 4514 and S2525. cast iron to comply to BS5 497 table G grade C except ones in the driveway which shall comply to BS 556.
18. All underground drains under lawns and grass to be cast iron to comply to BS 497 table G grade C except iron storm water drain shall comply to BS 556.
19. Minimum 100mm cover to be provided over all drains.
20. No chasing will be allowed in the slabs for pipes. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
21. All test runs of pipes must be completed before plastering.
22. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :	
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PROPOSED KENYA MARINE & SOCIO-ECONOMIC DEVELOPMENT

Plot L. R. No.:

Location :
**LAMU FISHERIES OFFICE,
LAMU COUNTY**

Client: **STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY**

DRAWING NO.

04 - 001 - 005

Signature

Subject :

WORKING DRAWINGS.

Consultancy

ARPRIM CONSULTANTS
P.O BOX 12969-0040 NAIROBI
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Drawn by:

PETER MOMANYI B. Arch. (Hons), (reg. No.A1552)	F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A112)
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Date: NOV 2023	Job No. 2023/Nov/KIDONGO
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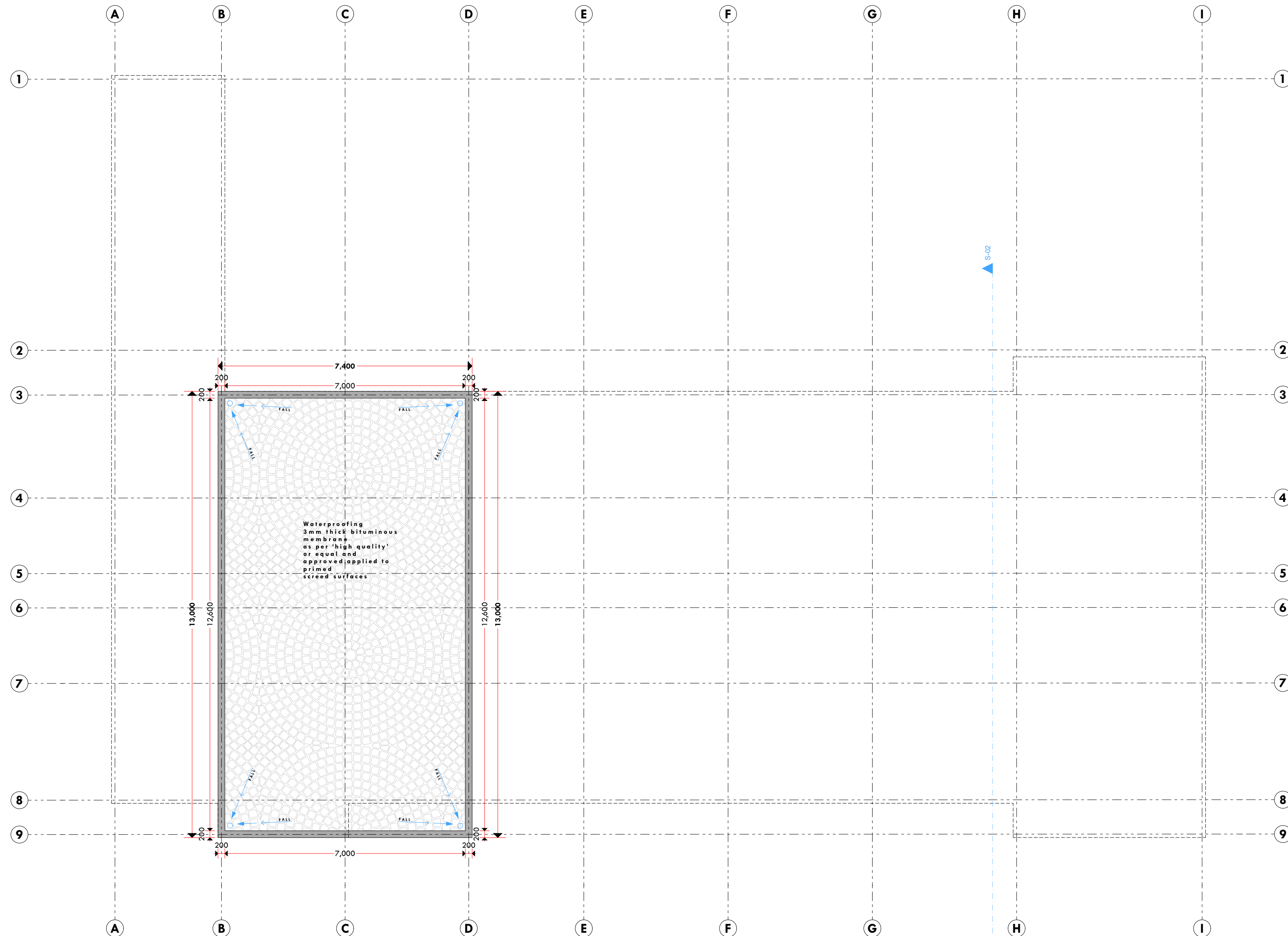
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ROOF PLAN

03 ELEVATION

04 ELEVATION

02 ELEVATION



01 ELEVATION

NOTES:

GENERAL

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3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000 gauge polythene on 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL
C. All

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL
EVALUATION

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant approving local authority's specifications.
13. All service ducts to be installed in all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or waste pipes. All bends and junctions to have a protection plate.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be laid in 150mm concrete surround.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS 4514 and 5255. cast iron to comply to BS 4597 table 6 grade C except ones in the slabs which shall comply to BS 4597 table 6 grade C except ones in the slabs.
18. All inspection chamber covers and frames shall be cast iron to comply to BS 4597 table 6 grade C except ones in the slabs which shall comply to BS 4597 table 6 grade C except ones in the slabs.
19. Storm water drain shall comply to BS 5556.
20. Minimum slopes to drains shall be 1%.
21. No chasing will be allowed in the slabs for pipes. Sleeves will be allowed in the slabs with the written approval from the Structural Engineer.
22. All testing of pipes must be completed before plastering.
23. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

- 24. All conduits must be laid before plastering.
 - 25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.
- FIRE**
- 26. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
 - 27. Provide underground water tank with automatic electric booster pump for ring main
 - 28. provide automatic push button fire alarm system
 - 29. provide heat and smoke detectors in each room
 - provide 9kg, dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :	
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**PROPOSED KENYA MARINE &
SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location :

LAMU FISHERIES OFFICE,
LAMU COUNTY

Client:

STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY

DRAWING NO.

04 - 001 - 006

Signature

Subject :

WORKING DRAWINGS.

Consultancy :

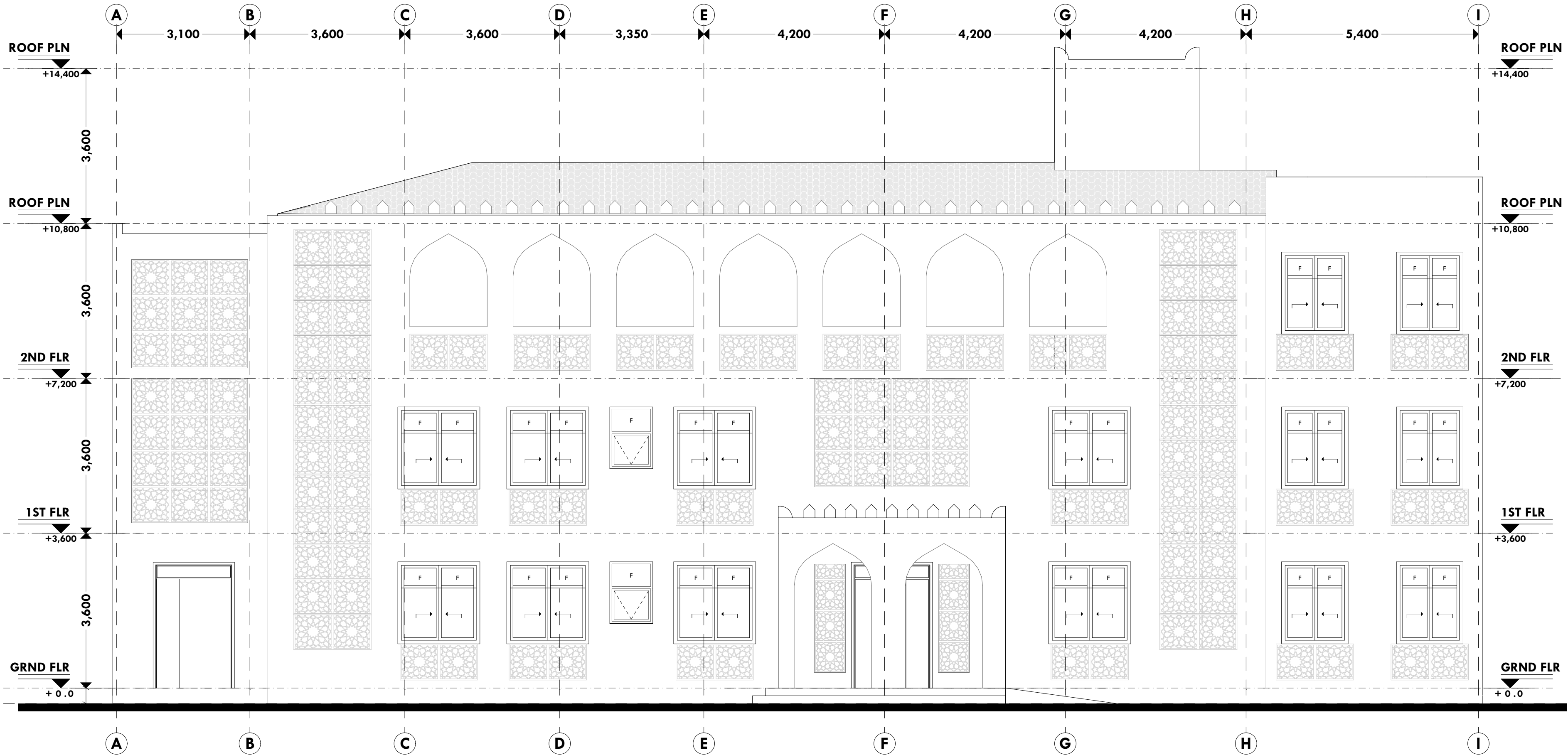
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Scale 1:100

01 ELEVATION



NOTES:

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CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL
C. All -

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant codes and local authority requirements.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or service pipes. All bends and junctions to have transition plates.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surrounds.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS8 497:14 and S255. cast iron to comply to BS8 497:14 and S255. cast iron to comply to BS8 497:14 grade C except ones in the manholes which shall be cast iron to comply to BS8 497:14 grade A.
18. All inspection chamber covers and frames shall be cast iron to comply to BS8 497:14 grade C except
19. Storm water drains shall be cast iron to comply to BS8 497:14 grade C except
20. Minimum slopes to drains shall be 1:60.
21. No chasing will be allowed in the slabs for pipes.
22. Sleeves will be allowed in the slabs with the written approval of The Structural Engineer.
23. All testing of pipes must be completed before plastering.
24. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
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- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :

PROPOSED KENYA MARINE & SOCIO-ECONOMIC DEVELOPMENT

Plot L. R. No.:

Location :
**LAMU FISHERIES OFFICE,
LAMU COUNTY**

Client:

**STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY**

DRAWING NO.

04 - 001 - 007

Signature

Subject :

WORKING DRAWINGS.

Consultancy :

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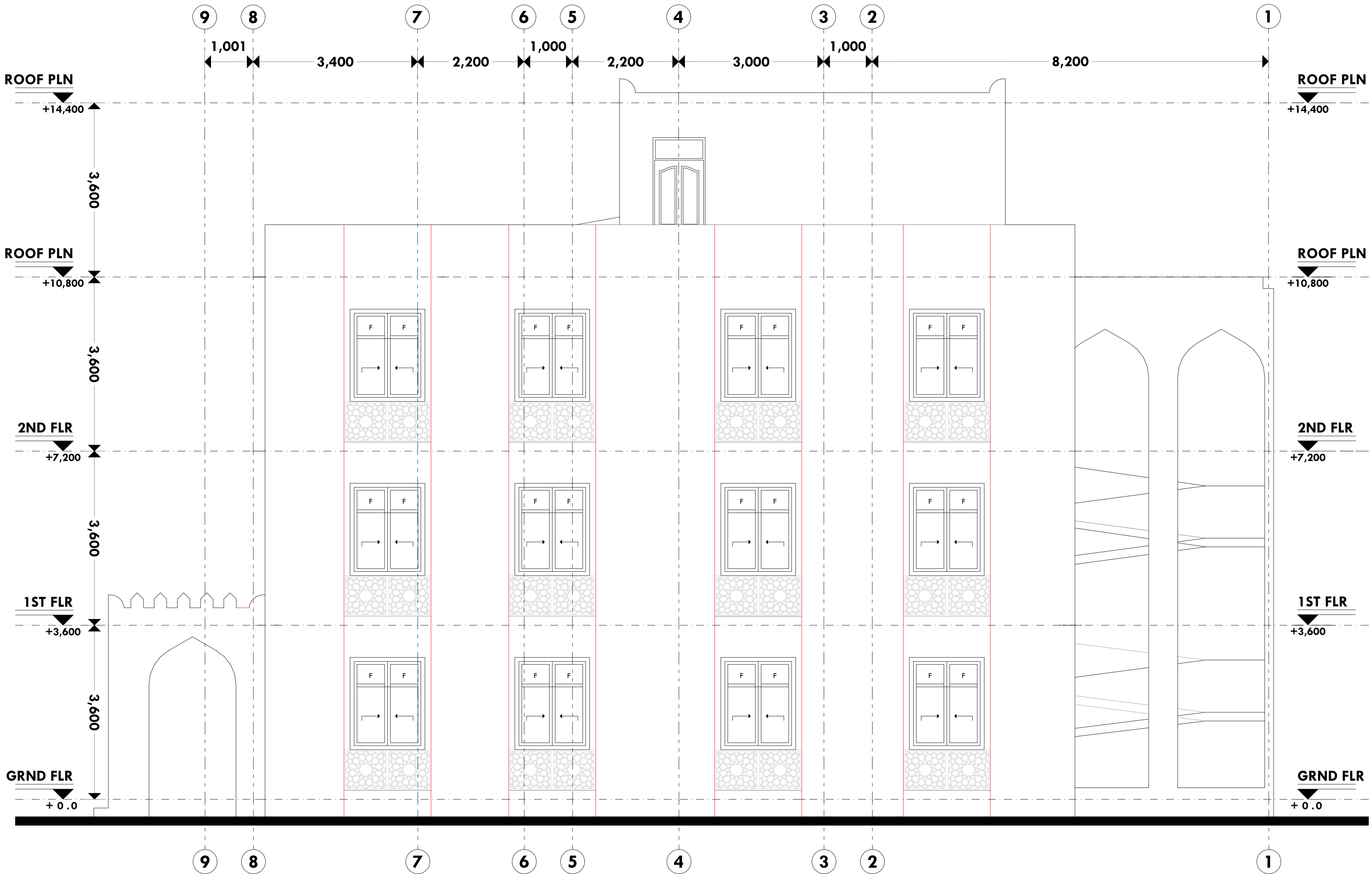
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Scale 1:100

Scale 1:100

0 2 ELEVATION



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CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

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MECHANICAL

12. All plumbing and drainage to comply with the relevant standards for local authority approval.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or service pipes. All bends and junctions to have protection plates.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surround.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS5 4514 and S255. cast iron to comply to BS5 4597 table 6 grade C except ones in the driveway which shall be cast iron to BS5 556.
18. All inspection chamber covers and frames shall be cast iron to comply to BS5 4597 table 6 grade C except
19. 2. Storm water drains shall be cast iron to BS5 556.
20. Minimum slopes to drains shall be 1:6.
21. No chasing will be allowed in the slabs for pipes.
22. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
23. All testing of pipes must be completed before plastering.
24. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.

25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors

27. Provide underground water tank with automatic electric booster pump for ring main

28. provide automatic push button fire alarm system

29. provide heat and smoke detectors in each room

provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :

**PROPOSED KENYA MARINE &
SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location :
**LAMU FISHERIES OFFICE,
LAMU COUNTY**

Client :
**STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY**

DRAWING NO.

04 - 001 - 008

Signature

Subject :

WORKING DRAWINGS.

Consultancy :

ARPRIM CONSULTANTS
P.O BOX 12969-0040 NAIROBI
TEL: 020-884312/8
Website :www.arprimconsultants.com

Drawn by: PETER MOMANYI B. Arch. (Hons),	Checked by: - F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by: - J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
---	--	--

Date: NOV 2023	Job No . 2023/Nov/KIDONGO
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Scale 1:100

03 ELEVATION



NOTES:

GENERAL

1. All measurements are shown in millimeters. Measurements should not be scaled off the drawing.
2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000 gauge polythene on 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant approving local authority's specifications.
13. Service ducts to be accessed from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or waste pipes. All bends and junctions to have cast iron or stainless steel plates.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surround.
17. All underground drainage pipes and manholes shall be UPVC and comply to BS5 4514 and S255, cast iron to comply to BS85 497 table 6 grade C except ones in the driveway which shall comply to BS85 497 table 6 grade A.
18. All inspection chamber covers and frames shall be cast iron to comply to BS5 497 table 6 grade C except.
19. Storm water drain shall comply to BS85 566.
20. Minimum slope shall be 1 in 100.
21. No chasing will be allowed in the slabs for pipes.
22. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
23. All testing of pipes must be completed before plastering.
24. All mechanical works must be co-ordinated with the electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :

PROPOSED KENYA MARINE & SOCIO-ECONOMIC DEVELOPMENT

Plot L. R. No.:

Location :
**LAMU FISHERIES OFFICE,
LAMU COUNTY**

Client:

**STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY**

DRAWING NO.

04 - 001 - 009

Signature

Subject :

WORKING DRAWINGS.

Consultancy :

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P.O BOX 12969-0040 NAIROBI
TEL: 020-884312/8
Website :www.arprimconsultants.com

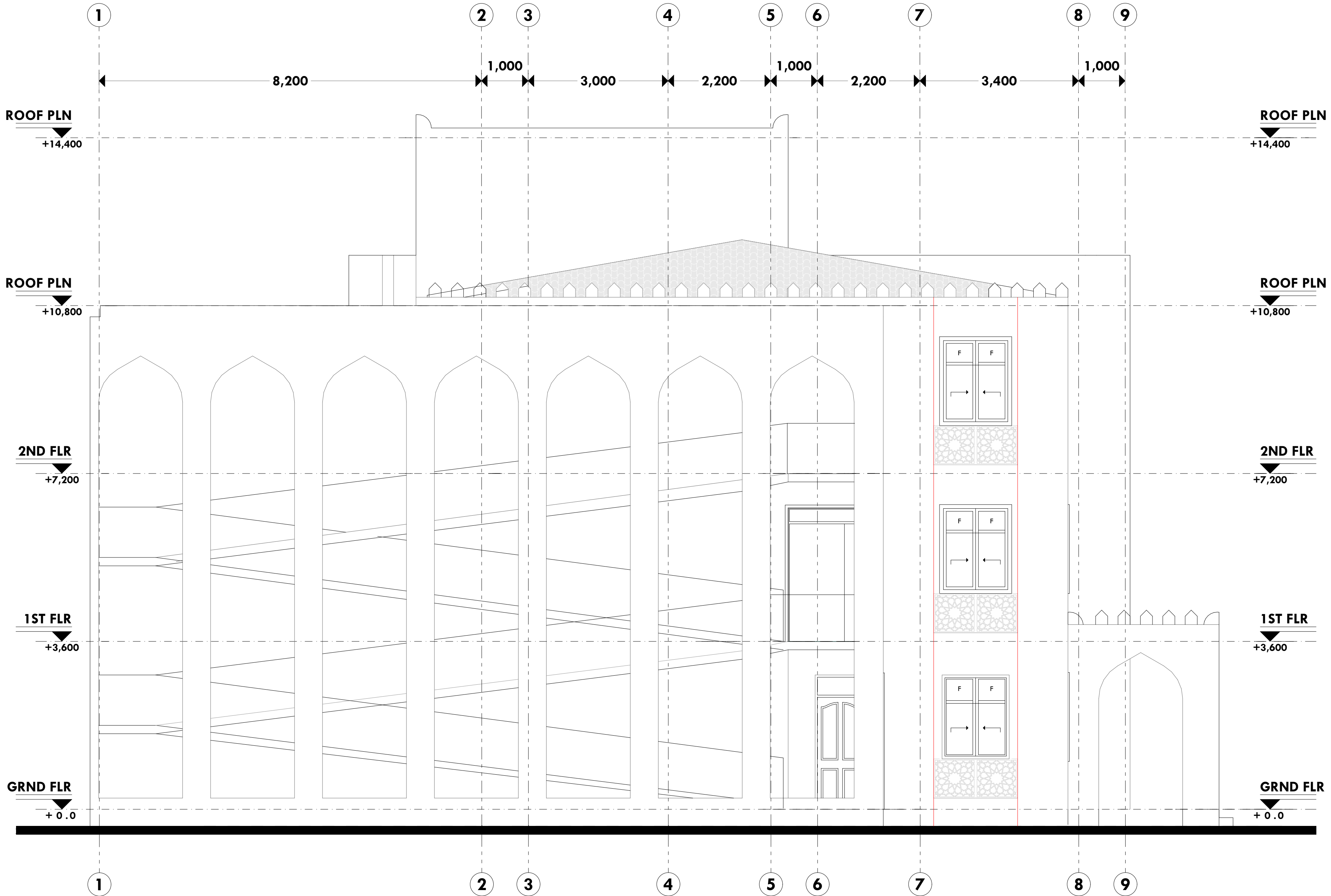
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---	--	--

ate: NOV 2023

3	Job No. 2023/Nov/KIDONGO
---	--------------------------

Scale 1:100

0 4 ELEVATION



NOTES:

GENERAL

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3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL
C. All -

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL
0. All RC work

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL
1.2 All plumbi

12. All plumbing and drainage to comply with the relevant standards for local authority approval.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vapour to all fittings connected to the SVPs or service pipes. All bends and junctions to have cast iron plates.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surrounds.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS8 4514 and S255. cast iron to comply to BS8 497 tank class C except ones in the driveway which shall comply to BS8 497 tank class B.
18. All inspection chamber covers and frames shall be cast iron to comply to BS8 497 tank class 6 grade C except storm water drains which shall comply to BS8 497 tank class 6 grade D.
19. Minimum slopes to drains shall be:
 - a) Storm water drains to be 1 in 100
 - b) Sewerage drains to be 1 in 50
20. No chasing will be allowed in the slabs for pipes.
21. Services will be allowed in the slabs with the written approval of the Structural Engineer.
22. All testing of pipes must be completed before plastering.
23. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :

PROPOSED KENYA MARINE & SOCIO-ECONOMIC DEVELOPMENT

Plot L. R. No.:

Location :
**LAMU FISHERIES OFFICE,
LAMU COUNTY**

Client : **STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY**

DRAWING NO.

04 - 001 - 010

Signature

Subject :

WORKING DRAWINGS.

Consultancy :

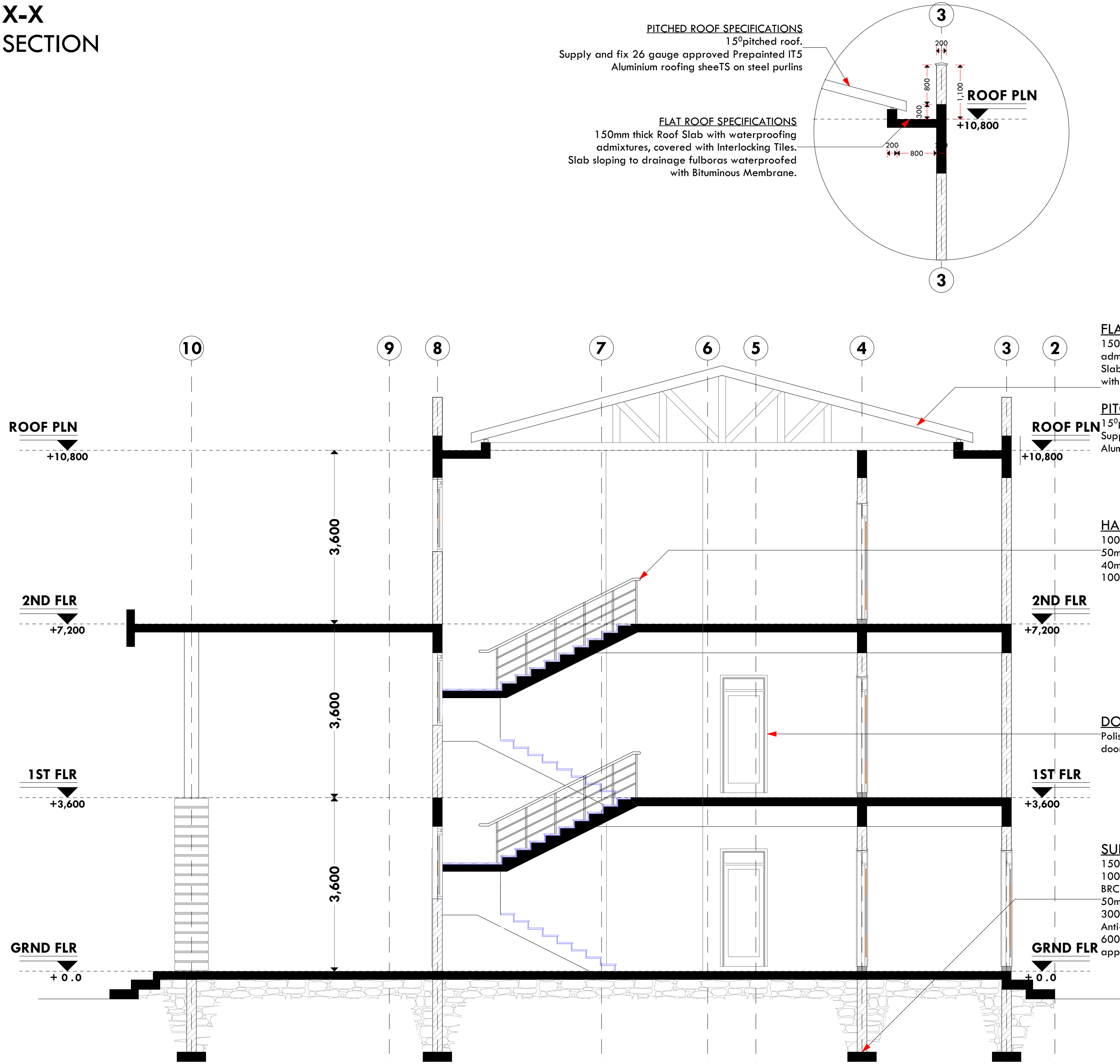
ARPRIM CONSULTANTS
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ate:NOV 2023	Job No . 2023/Nov/KIDONGO
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scale 1:100

X-X SECTION



GENERAL

millimeter

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3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

4. Damp proof the walls at grade. Do

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000 gauge polythene on 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

8. All s
not to

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

10. Depth of

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

12. All plumb

12. All plumbing and drainage to comply with the relevant codes and local authority requirements.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or service pipes. All bends and junctions to have transition plates.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surrounds.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS8 497:14 and S255. cast iron to comply to BS8 497:14 table 6 grade C except ones in the manholes which shall comply to BS8 497:14 table 6 grade D.
18. All inspection chamber covers and frames shall be cast iron to comply to BS8 497:14 table 6 grade C
19. Storm water drains shall be cast iron to comply to BS8 497:14 table 6 grade C
20. Minimum slopes to drains shall be 1:60
21. No chasing will be allowed in the slabs for pipes.
22. Sleeves will be allowed in the slabs with the written approval of The Structural Engineer.
23. All testing of pipes must be completed before plastering.
24. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

24. All conduits
25. All electric

- FIRE**
26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
 27. Provide underground water tank with automatic electric booster pump for ring main
 28. provide automatic push button fire alarm system
 29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

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[illegible]

PROPOSED KENYA MARINE & SOCIO-ECONOMIC DEVELOPMENT

LA

LAMU COUNTY

2

**STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY**

04 - 001 - 011

Subject :

10

ARPRIM CONSULTANTS
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DOOR SCHEDULE

NO.	D - 0 1	D - 0 2	D - 0 3	D - 0 4	D - 0 5	D - 0 6
DESIGN						
LOCATION	MAIN ENTRANCE EXIT	OFFICES	DUCTS	P W D	WASHROOM CUBICLES	BOARDROOM
DESCRIPTION	2,100 X 1,800mm 50mm thick mvule panelled door: comprised of 200 x 50mm thick stiles, top and middle rail: 200 x 50mm thick bottom rail ; complete with moulded grooves to door leaf on both sides ;solid blocking to iron mongery (m/s) to door	2,100 X 900mm 50mm thick mvule panelled door: comprised of 200 x 50mm thick stiles, top and middle rail: 200 x 50mm thick bottom rail ; complete with moulded grooves to door leaf on both sides ;solid blocking to iron mongery (m/s) to door	2,100 X 800mm 50mm thick mvule panelled door: comprised of 200 x 50mm thick stiles, top and middle rail: 200 x 50mm thick bottom rail ; complete with moulded grooves to door leaf on both sides ;solid blocking to iron mongery (m/s) to door	2,100 X 1,100mm 50mm thick mvule panelled door: comprised of 200 x 50mm thick stiles, top and middle rail: 200 x 50mm thick bottom rail ; complete with moulded grooves to door leaf on both sides ;solid blocking to iron mongery (m/s) to door	2,100 X 800mm Mvule Louvred Door Panel. 150 X 100mm Polished Mvule Door Frame.	2,100 X 1,500mm 50mm thick mvule panelled door: comprised of 200 x 50mm thick stiles, top and middle rail: 200 x 50mm thick bottom rail ; complete with moulded grooves to door leaf on both sides ;solid blocking to iron mongery (m/s) to door
QUANTITIES	1	2 2	6	2 0	6	5

NOTES:

GENERAL

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2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000 gauge polythene on 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant standards.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or waste pipes. All bends and junctions to have a maximum radius of 150mm.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surround.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS5451 4 and S225. cast iron to comply to BS85 479 table 6 grade C except ones in the driveway which may be cast iron.
18. All inspection chamber covers and frames shall be cast iron to comply to BS85 479 table 6 grade C except to Storm water drains which may be cast iron.
19. Minimum slopes to drains shall be 1%.
20. No chasing will be allowed in the slabs for pipes.
21. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
22. All testing of pipes must be completed before plastering.
23. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
 27. Provide underground water tank with automatic electric booster pump for ring main
 28. provide automatic push button fire alarm system
 29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :

PROPOSED KENYA MARINE & SOCIO-ECONOMIC DEVELOPMENT

Plot L. R. No.:

**LAMU FISHERIES OFFICE,
LAMU COUNTY**

Client :

**STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY**

DRAWING NO.

04 - 001 - 012

Signature

Subject :

WORKING DRAWINGS.

Consultancy

ARPRIM CONSULTANTS
P.O BOX 12969-0040 NAIROBI
TEL: 020-884312/8
Website :www.arprimconsultants.com

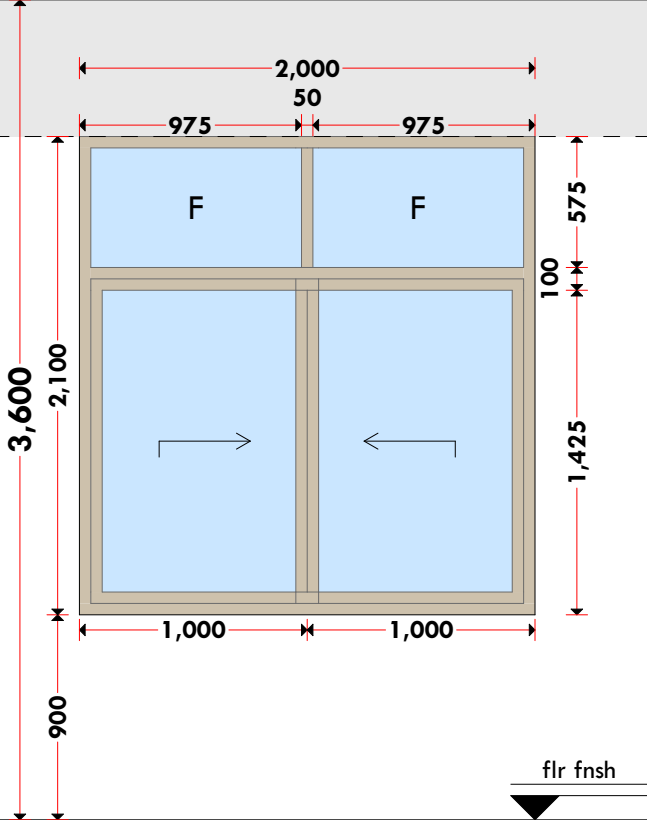
Drawn by: PETER MOMANYI B. Arch. (Hons),	Checked by :- F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by :- J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
---	--	--

ate: NOV 2023

Job No . 2023/Nov/KIDONGC

Scale 1:100

WINDOW SCHEDULE

WINDOW DESIGN		
NAME	W - 0 1	
QUANTITY	1 3	
LOCATION		
SPECIFICATIONS	Powder coated aluminium framed sliding windows complete with ironmongery, mullions, transomes, railing and necessary intermediate reinforcement elements including all weather strips, rubber glazing strips,couplings, sliding rails bars, window cills and window boards, quadrant & painted externally and internally; panes fixed with 6mm thick one way glass fixed with beadings.	

NOTES:

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3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000 gauge polythene on 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant standards for local authority approval.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or service pipes. All bends and junctions to have transition plates.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surrounds.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS8 497 class A and S255 cast iron to comply to BS8 497 table 6 grade C except ones in the basement which shall be cast iron to comply to BS8 497 table 6 grade C.
18. All inspection chamber covers and frames shall be cast iron to comply to BS8 497 table 6 grade C
19. Storm water drains shall be cast iron to comply to BS8 497 table 6 grade C
20. Minimum slopes to drains shall be 1%
21. No chasing will be allowed in the slabs for pipes.
22. Sleeves will be allowed in the slabs with the written approval of The Structural Engineer.
23. All testing of pipes must be completed before plastering.
24. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.
- FIRE**
26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

TELEVISIONS

[illegible]

Project :

**PROPOSED KENYA MARINE &
SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location :

**LAMU FISHERIES OFFICE,
LAMU COUNTY**

Client :

**STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY**

DRAWING NO.

04 - 001 - 013

Signature

Subject :

WORKING DRAWINGS.

Consultancy :

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---	--	--

ate: NOV 2023

Job No. 2023/Nov/KIDONGO

[illegible]

Scale 1:100

1000

3D VIEWS



NOTES:

GENERAL

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3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000 gauge polythene on 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant approving local authority's specifications.
13. Service ducts to be accessed from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or waste pipes. All bends and junctions to have cast iron or stainless steel plates.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surround.
17. All underground drainage pipes and SVPs shall be UPVC and comply to BS5 4514 and S255, cast iron to comply to BS85 497 table 6 grade C except ones in the driveway which shall comply to BS85 497 table 6 grade A.
18. All inspection chamber covers and frames shall be cast iron to comply to BS5 497 table 6 grade C except.
19. Storm water drain shall comply to BS85 566.
20. Minimum slope shall be 1 in 100.
21. No chasing will be allowed in the slabs for pipes.
22. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
23. All testing of pipes must be completed before plastering.
24. All mechanical works must be co-ordinated with the electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.
- FIRE**
26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :

PROPOSED KENYA MARINE & SOCIO-ECONOMIC DEVELOPMENT

Plot L. R. No.:

Location :
**LAMU FISHERIES OFFICE,
LAMU COUNTY**

Client:

**STATE DEPARTMENT FOR
FISHERIES AQUACULTURE &
THE BLUE ECONOMY**

DRAWING NO.

Signature

Subject :

WORKING DRAWINGS.

Consultancy :

ARPRIM CONSULTANTS
P.O BOX 12969-0040 NAIROBI
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ate: NOV 2023	Job No. 2023/Nov/KIDONGO
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Scale 1:100

PROPOSED LAMU OFFICE BLOCK, LAMU COUNTY.

PAGE	DRAWING NUMBER	DRAWING TITLE
1	04-002-01	DRAWING LIST
2	04-002-02	SITE PLAN
3	04-002-03	OFFICE BLOCK - FOUNDATION LAYOUT AND DETAIL
4	04-002-04	OFFICE BLOCK - STAIRCASE, RAMP AND COLUMN DETAIL
5	04-002-05	OFFICE BLOCK - FIRST FLOOR LAYOUT
6	04-002-06	OFFICE BLOCK - FIRST FLOOR SLAB RC DETAIL
7	04-002-07	OFFICE BLOCK - SECOND FLOOR LAYOUT
8	04-002-08	OFFICE BLOCK - SECOND FLOOR SLAB RC DETAIL
9	04-002-09	OFFICE BLOCK - ROOF 01 LAYOUT
10	04-002-10	OFFICE BLOCK - ROOF 01 SLAB RC DETAIL
11	04-002-11	OFFICE BLOCK - ROOF 02 AND BEAM DETAIL
12	04-002-12	CIVIL WORKS 1
13	04-002-13	CIVIL WORKS 2
14	04-002-14	CIVIL WORKS 3
15	04-002-15	BIO-DIGESTER AND SOAK PIT DETAIL
16	04-002-16	SURFACE TANK PLINTHS

Consultant:-
ARPRIM CONSORTIUM
P.O. Box 12969-00100,
Nairobi, KENYA.
Tel: 02 608 906
Fax: 02 608 907
E-mail: info@arprimconsultants.com

CLIENT:-
**STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE AND THE BLUE ECONOMY.**

PROJECT:-
**PROPOSED KENYA MARINE FISHERIES AND
SOCIO-ECONOMIC DEVELOPMENT (KEMFSD) NATIONAL
AND COUNTY FISHERIES INFRASTRUCTURE.**

PROJECT TITLE:-
PROPOSED LAMU OFFICES, LAMU COUNTY.

DRAWING TITLE:-
GATE HOUSE

NOTES

1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.
2. All dimensions are in millimetres unless specified otherwise.
3. All levels are indicated in m unless specified otherwise.
4. Minimum cover to all reinforcement to be:

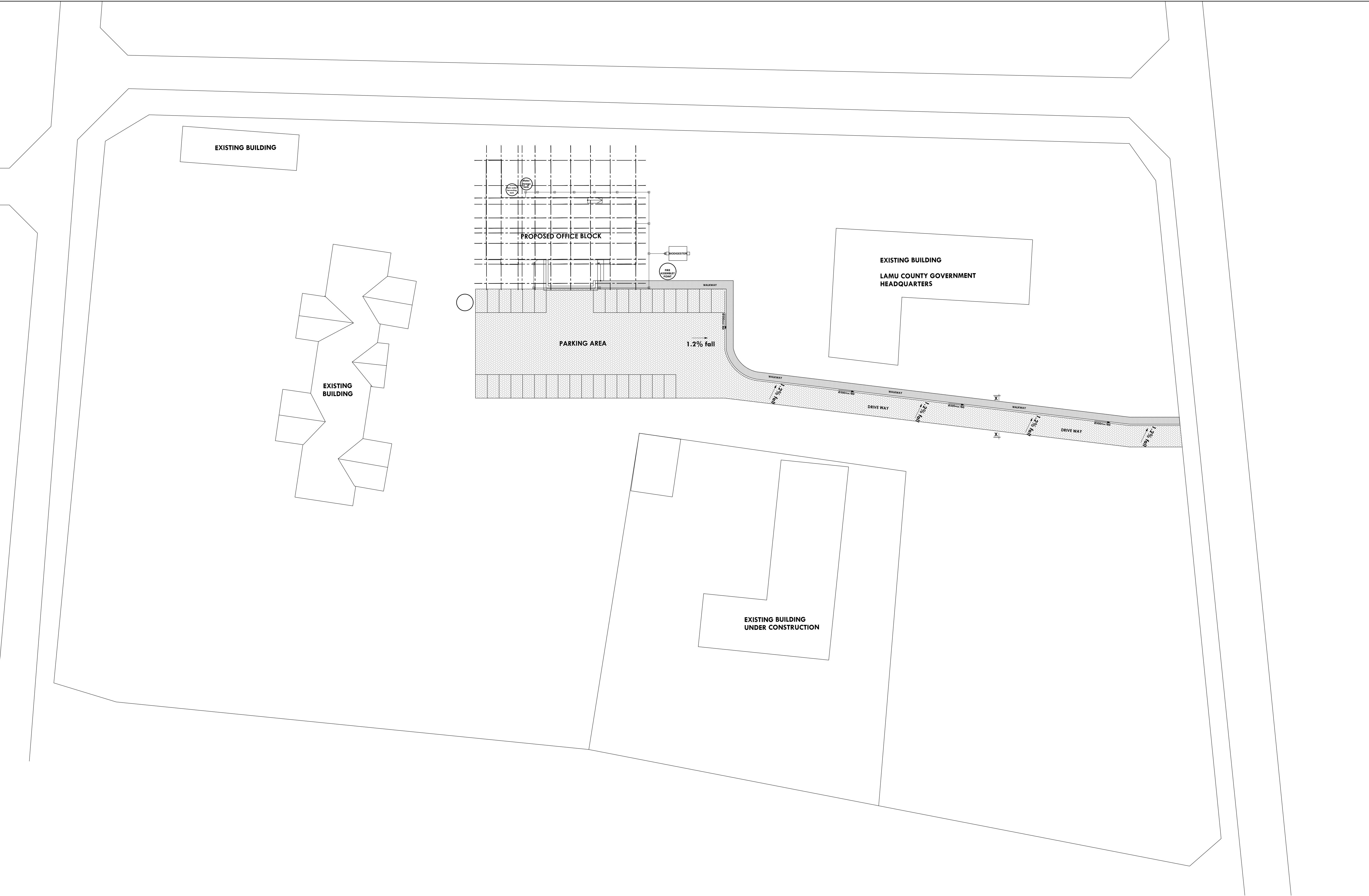
Stairs, Slabs & Walls = 35mm
Beams (main bars) = 35mm
Post-tensioned beams = 40mm
Columns (main bars) = 40mm
Foundations = 75mm
5. Maximum tolerance on concrete cover is +/- 5mm.
6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483.
7. Minimum laps to all bars to be 500 unless stated otherwise.

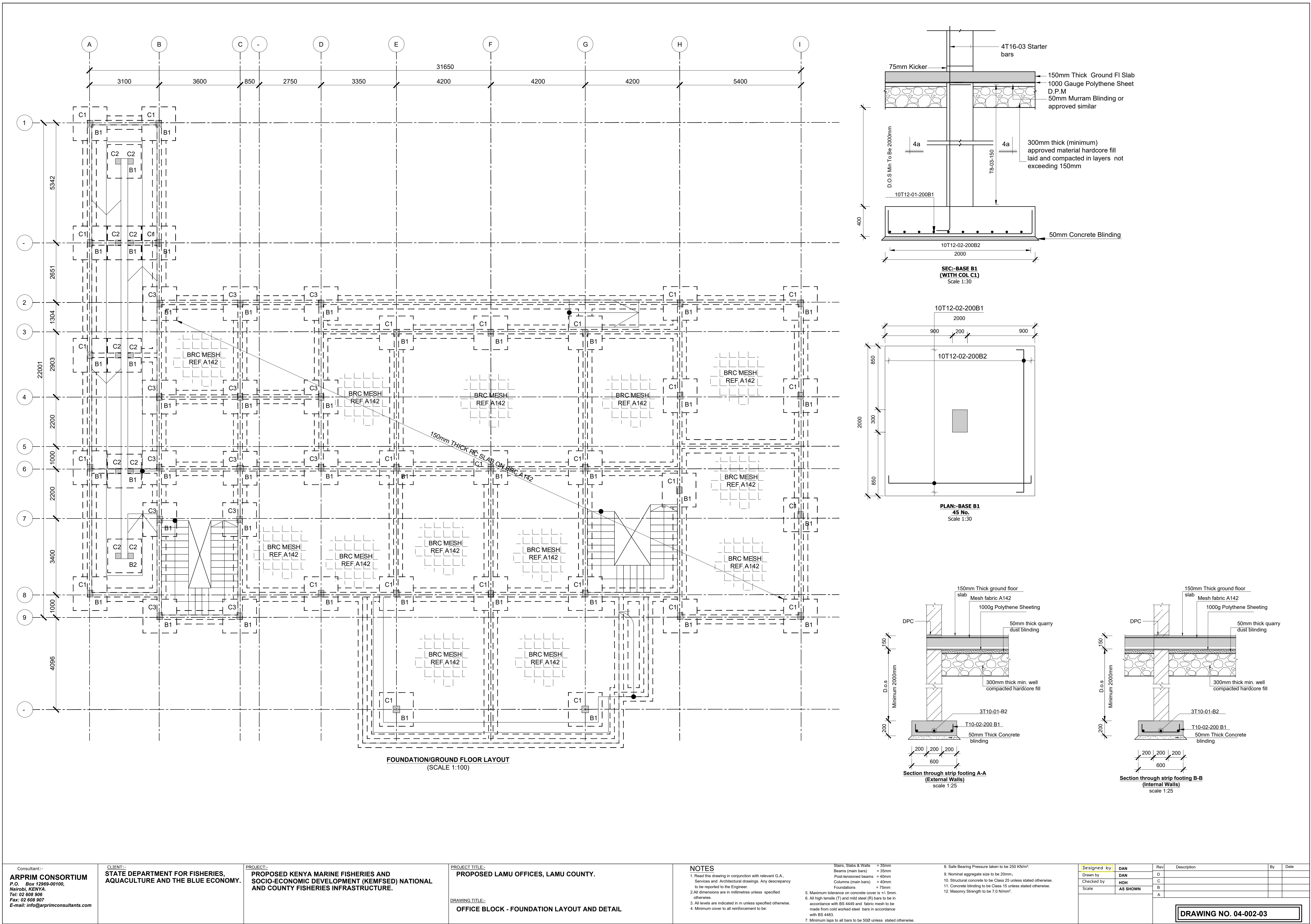
8. Safe Bearing Pressure taken to be 250 KN/m².
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm².

Designed by	DAN
Drawn by	DAN
Checked by	HOH
Scale	AS SHOWN

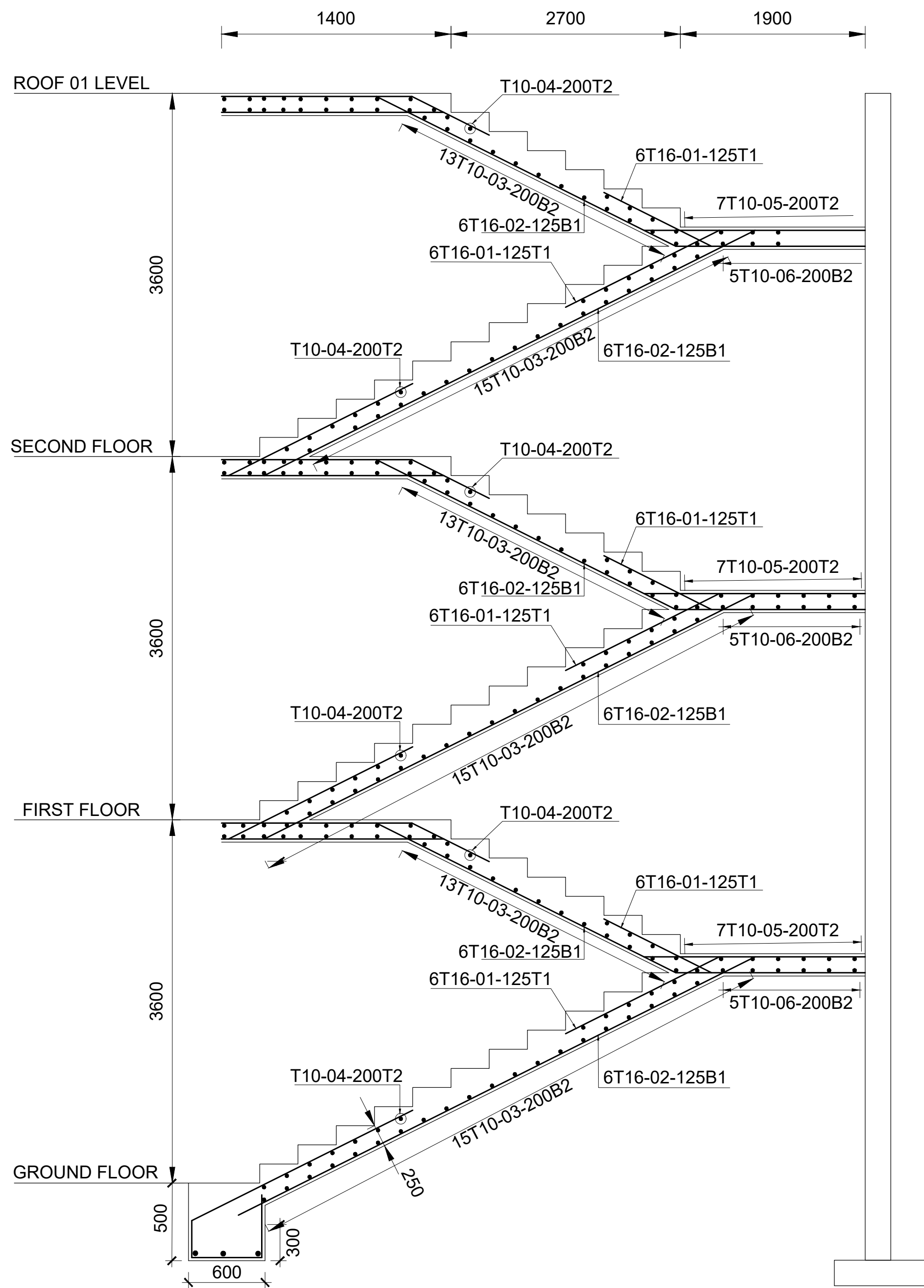
Rev	Description	By	Date
D			
C			
B			
A			

DRAWING NO. 04-002-12

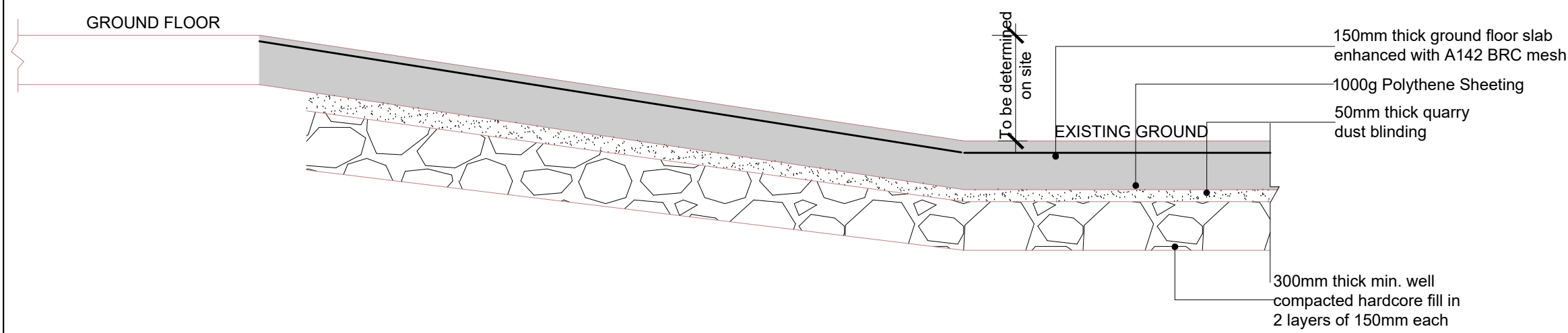




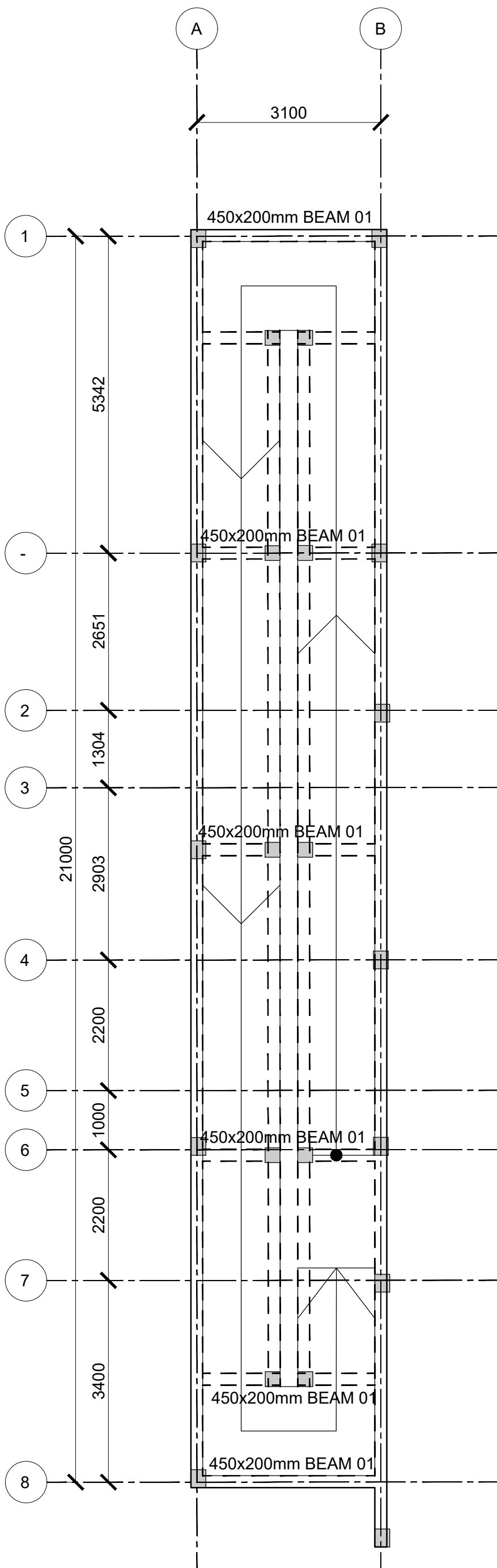
Consultant:- ARPRIM CONSORTIUM <i>P.O. Box 12969-00100, Nairobi, KENYA. Tel: 02 608 906 Fax: 02 608 907 E-mail: info@arprimconsultants.com</i>	CLIENT:- STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY.	PROJECT:- PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFSD) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.	PROJECT TITLE:-	NOTES	<table><tr><td>Designed by</td><td>DAN</td><td>Rev</td><td>Description</td><td>By</td><td>Date</td></tr><tr><td>Drawn by</td><td>DAN</td><td>D</td><td></td><td></td><td></td></tr><tr><td>Checked by</td><td>HOH</td><td>C</td><td></td><td></td><td></td></tr><tr><td>Scale</td><td>AS SHOWN</td><td>B</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>A</td><td></td><td></td><td></td></tr></table> <div>DRAWING NO. 04-002-03</div>	Designed by	DAN	Rev	Description	By	Date	Drawn by	DAN	D				Checked by	HOH	C				Scale	AS SHOWN	B						A			
			Designed by	DAN		Rev	Description	By	Date																										
			Drawn by	DAN		D																													
			Checked by	HOH		C																													
			Scale	AS SHOWN		B																													
		A																																	
PROPOSED LAMU OFFICES, LAMU COUNTY.	1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer. 2. All dimensions are in millimetres unless specified otherwise. 3. All levels are indicated in m unless specified otherwise. 4. Minimum cover to all reinforcement to be:	Stairs, Slabs & Walls = 35mm Beams (main bars) = 35mm Post-tensioned beams = 40mm Columns (main bars) = 40mm Foundations = 75mm 5. Maximum tolerance on concrete cover is +/- 5mm. 6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483. 7. Minimum laps to all bars to be 500 unless stated otherwise.	8. Safe Bearing Pressure taken to be 250 N/m ² . 9. Nominal aggregate size to be 20mm. 10. Structural concrete to be Class 25 unless stated otherwise. 11. Concrete blinding to be Class 15 unless stated otherwise. 12. Masonry Strength to be 7.0 N/m ² .																																
DRAWING TITLE:-																																			
OFFICE BLOCK - FOUNDATION LAYOUT AND DETAIL																																			



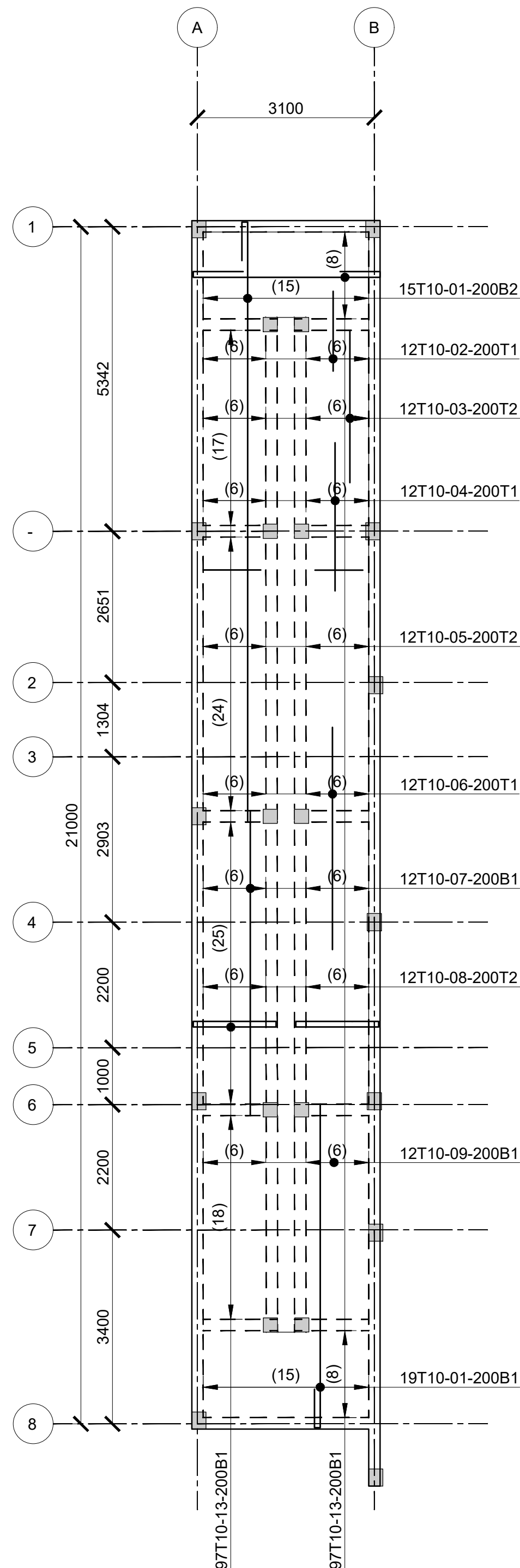
TYPICAL STAIRCASE SECTION
SCALE 1:50



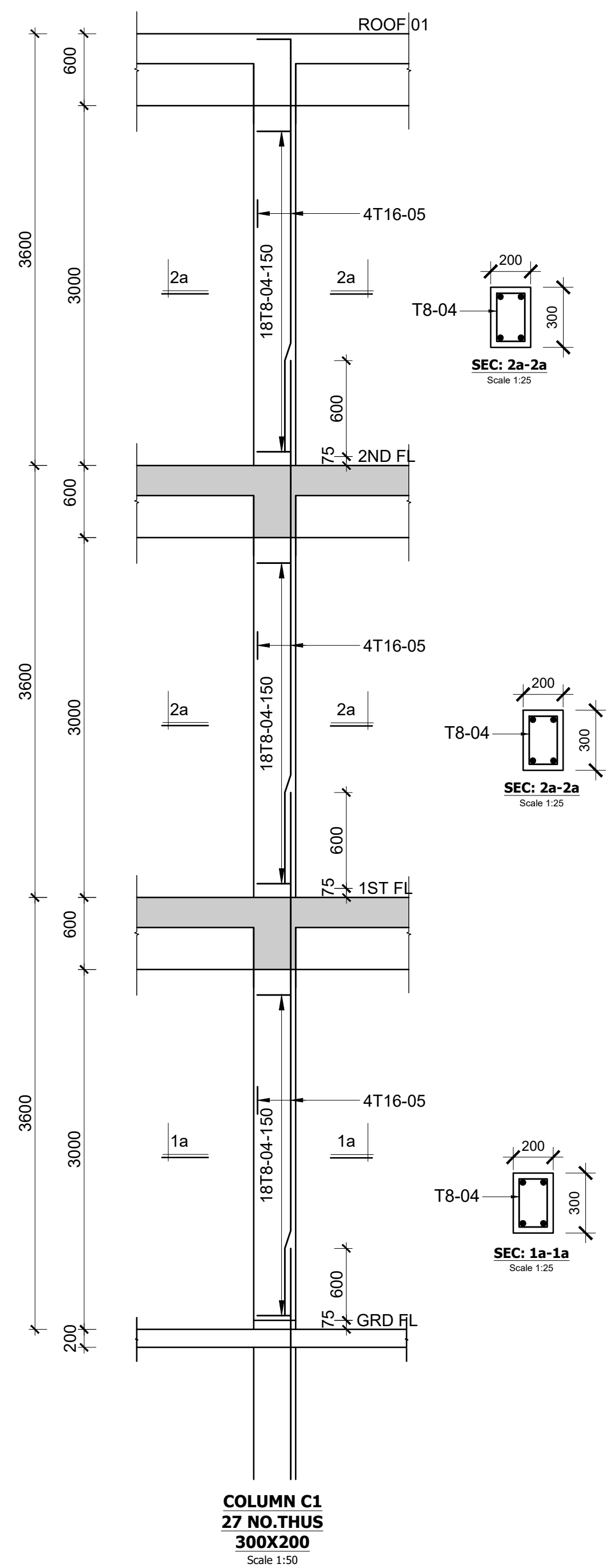
SECTION THROUGH RAMP (1 IN 12)
(SCALE 1 : 25)



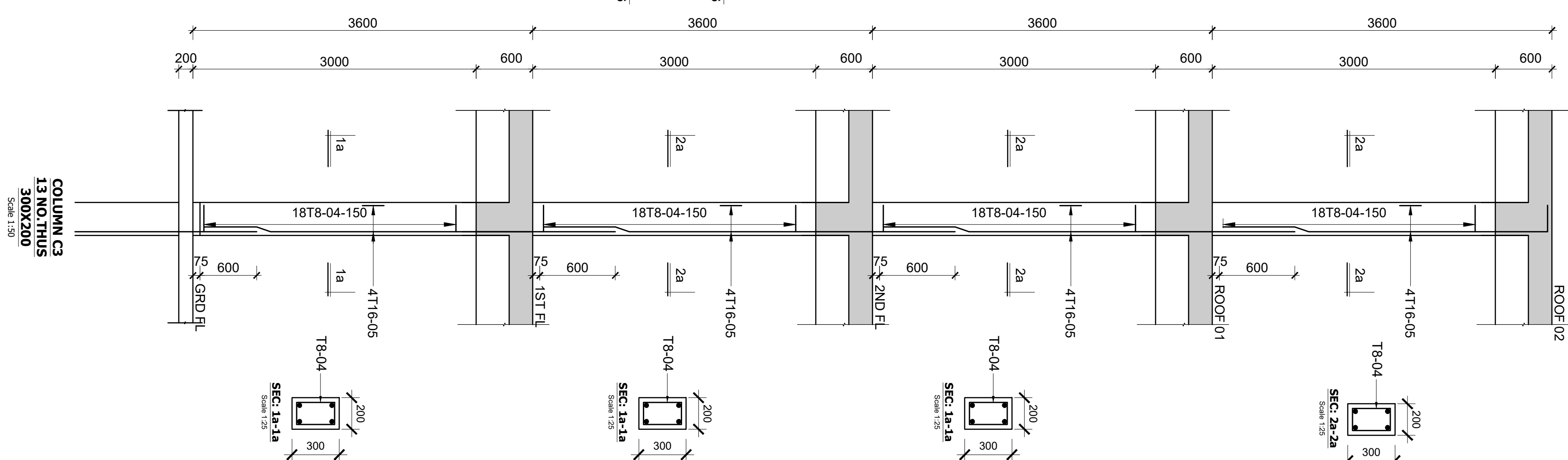
RAMP 02 LAYOUT
175mm THICK
(SCALE 1:100)



RAMP 02 SLAB RC DETAIL
(SCALE 1:100)



COLUMN C1
27 NO.THUS
300X200
Scale 1:50



COLUMN C3
13 NO.THUS
300X200
Scale 1:50

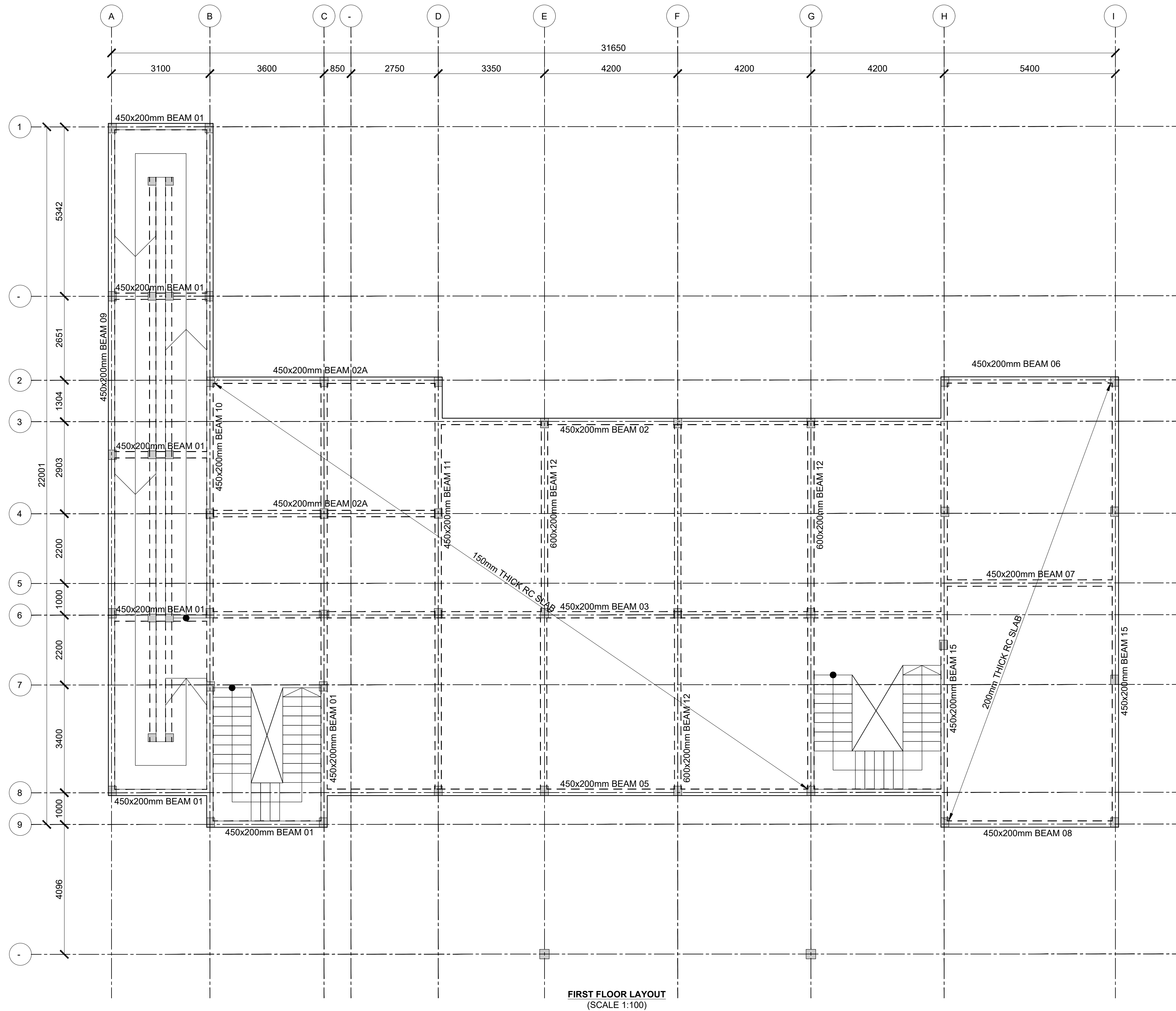
NOTES

- Read this drawing in conjunction with relevant G.A., Services and Architectural Drawings. Any discrepancy to be reported to the Engineer.
- All dimensions are in millimetres unless specified otherwise.
- All levels are indicated in m unless specified otherwise.
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- Minimum laps to all bars to be 500 unless stated otherwise.

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- Nominal aggregate size to be 20mm.
- Structural concrete to be Class 25 unless stated otherwise.
- Concrete blinding to be Class 15 unless stated otherwise.
- Masonry Strength to be 7.0 N/mm².

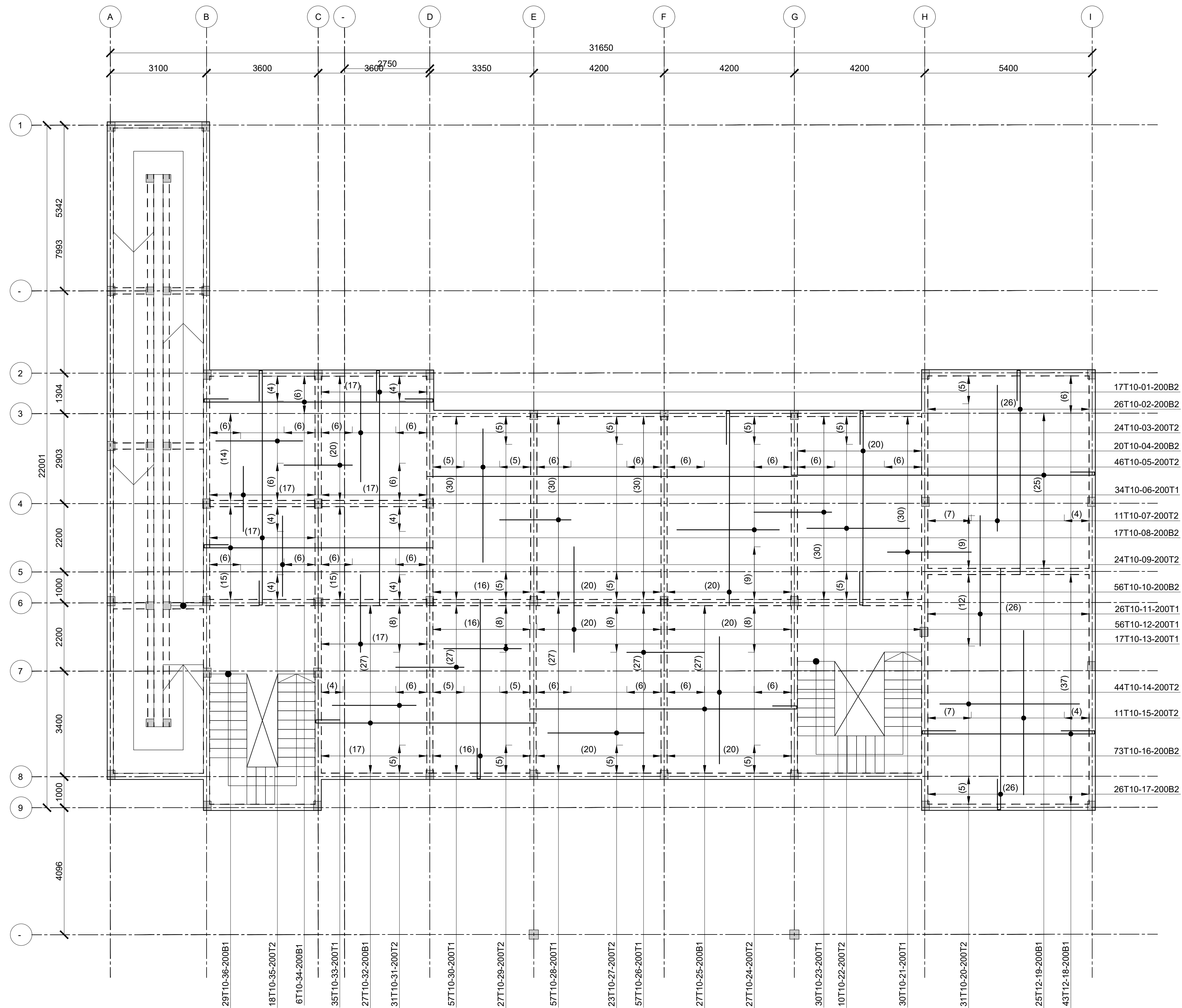
Designed by	DAN	Rev	Description	By	Date
Drawn by	DAN	D			
Checked by	HOH	C			
Scale	AS SHOWN	B			
		A			

DRAWING NO. 04-002-04



FIRST FLOOR LAYOUT
(SCALE 1:100)

<p>Consultant:- ARPRIM CONSORTIUM P.O. Box 12969-00100, Nairobi, KENYA. Tel: 02 608 906 Fax: 02 608 907 E-mail: info@arprimconsultants.com</p>	<p>CLIENT:- STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY.</p>	<p>PROJECT:- PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFSD) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.</p>	<p>PROJECT TITLE:- PROPOSED LAMU OFFICES, LAMU COUNTY.</p> <p>DRAWING TITLE:- OFFICE BLOCK - FIRST FLOOR LAYOUT</p>	<p>NOTES</p> <p>1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.</p> <p>2. All dimensions are in millimetres unless specified otherwise.</p> <p>3. All levels are indicated in m unless specified otherwise.</p> <p>4. Minimum cover to all reinforcement to be:</p> <p>5. Maximum tolerance on concrete cover is +/- 5mm.</p> <p>6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483.</p> <p>7. Minimum laps to all bars to be 500 unless stated otherwise.</p> <p>8. Safe Bearing Pressure taken to be 250 KN/m².</p> <p>9. Nominal aggregate size to be 20mm.</p> <p>10. Structural concrete to be Class 25 unless stated otherwise.</p> <p>11. Concrete blinding to be Class 15 unless stated otherwise.</p> <p>12. Masonry Strength to be 7.0 N/mm².</p> <p>Stairs, Slabs & Walls Beams (main bars) = 35mm Post-tensioned beams = 40mm Columns (main bars) = 40mm Foundations = 75mm</p>	<table><tr><td>Designed by</td><td>DAN</td><td>Rev</td><td>Description</td><td>By</td><td>Date</td></tr><tr><td>Drawn by</td><td>DAN</td><td>D</td><td></td><td></td><td></td></tr><tr><td>Checked by</td><td>HOH</td><td>C</td><td></td><td></td><td></td></tr><tr><td>Scale</td><td>AS SHOWN</td><td>B</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>A</td><td></td><td></td><td></td></tr></table> <div>DRAWING NO. 04-002-05</div>	Designed by	DAN	Rev	Description	By	Date	Drawn by	DAN	D				Checked by	HOH	C				Scale	AS SHOWN	B						A			
Designed by	DAN	Rev	Description	By	Date																														
Drawn by	DAN	D																																	
Checked by	HOH	C																																	
Scale	AS SHOWN	B																																	
		A																																	



FIRST FLOOR SLAB RC DETAIL
(SCALE 1:100)

Consultant:-
ARPRIM CONSORTIUM
P.O. Box 12969-00100,
Nairobi, KENYA.
Tel: 02 608 906
Fax: 02 608 907
E-mail: info@arprimconsultants.com

CLIENT:-
**STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE AND THE BLUE ECONOMY.**

PROJECT:-
**PROPOSED KENYA MARINE FISHERIES AND
SOCIO-ECONOMIC DEVELOPMENT (KEMFSD) NATIONAL
AND COUNTY FISHERIES INFRASTRUCTURE.**

PROJECT TITLE:-
PROPOSED LAMU OFFICES, LAMU COUNTY.

DRAWING TITLE:-
OFFICE BLOCK - FIRST FLOOR SLAB RC DETAIL

NOTES

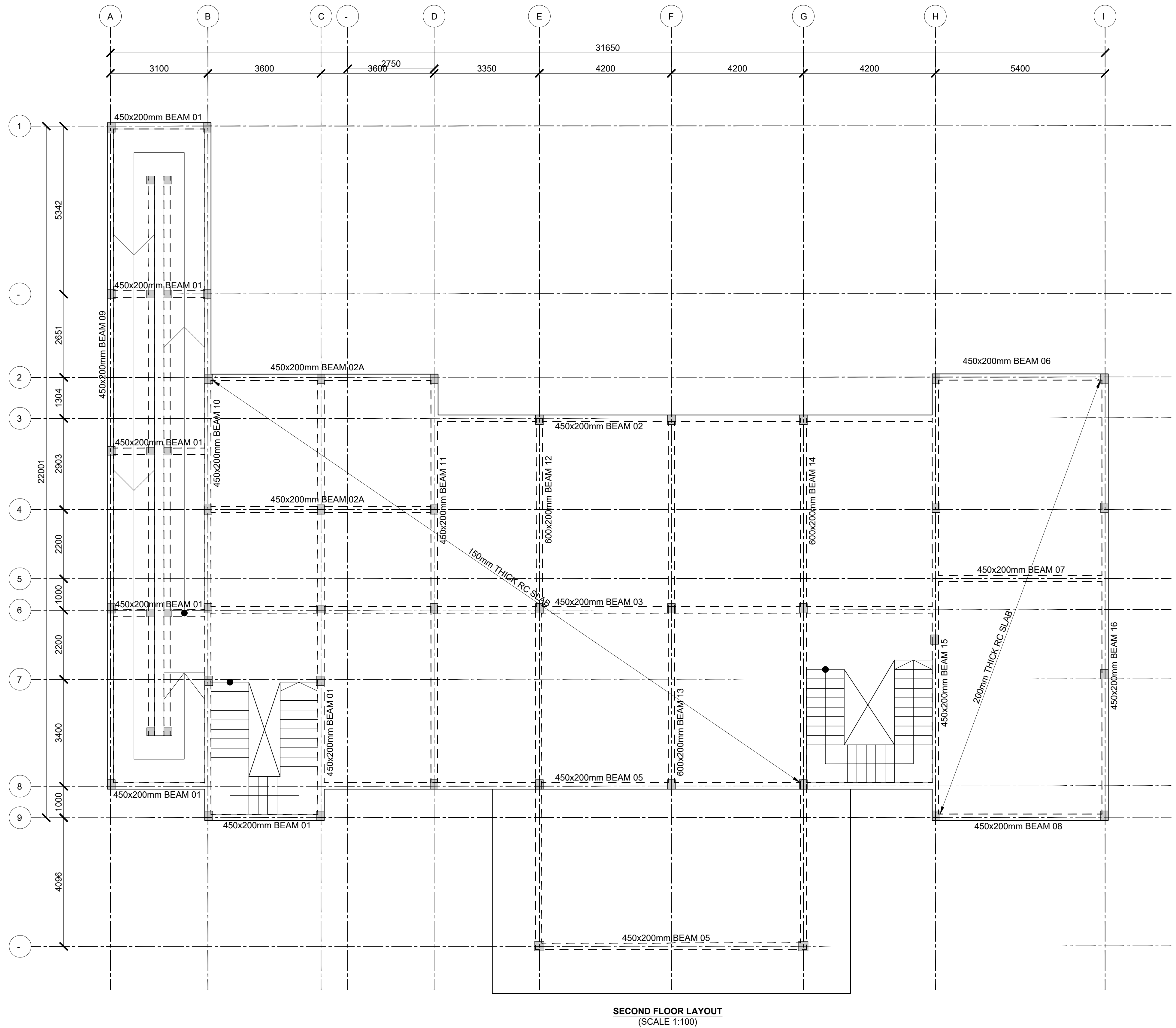
1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.
2. All dimensions are in millimetres unless specified otherwise.
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4. Minimum cover to all reinforcement to be:

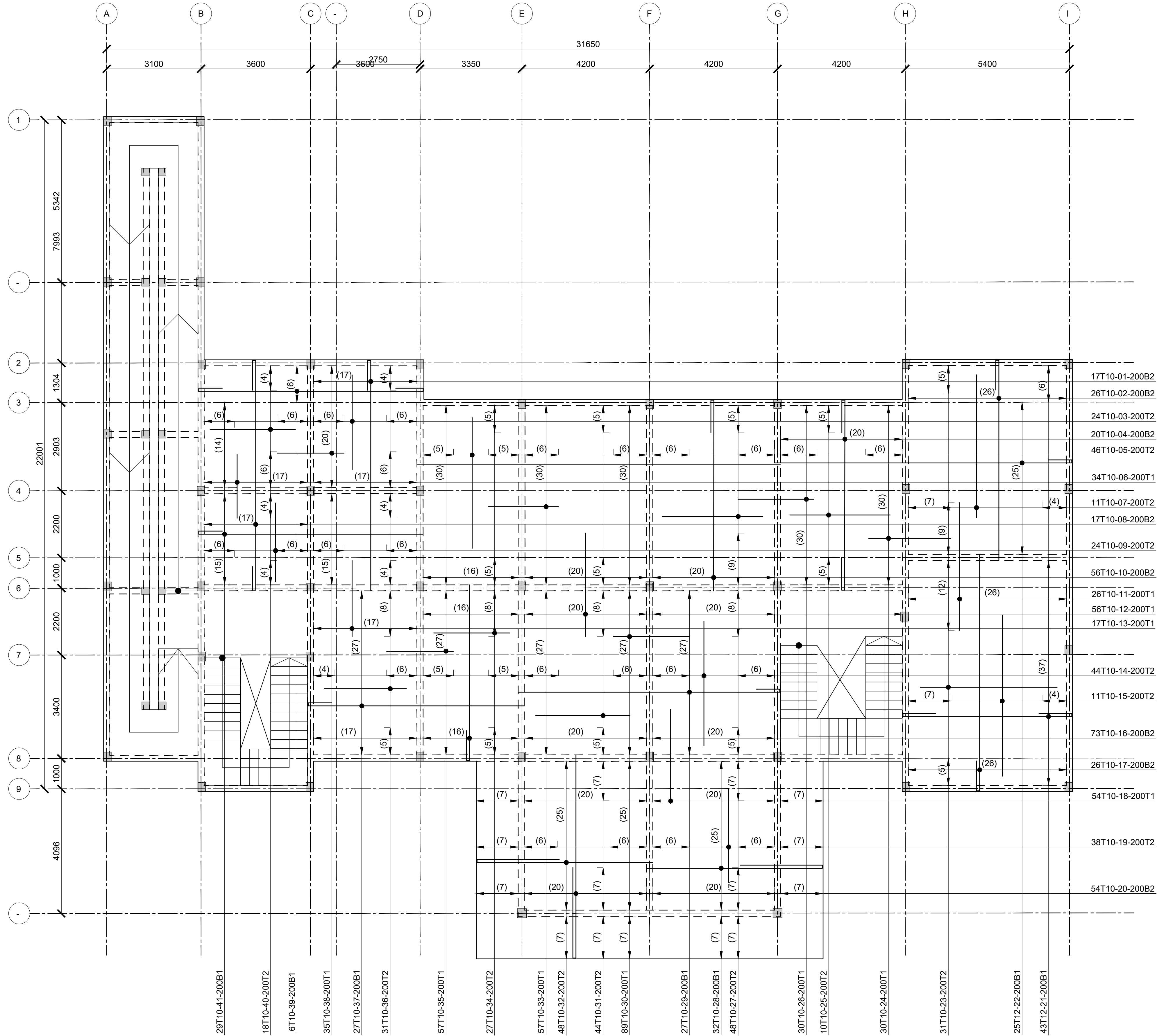
Stairs, Slabs & Walls
Beams (main bars) = 35mm
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Columns (main bars) = 40mm
Foundations = 75mm
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7. Minimum laps to all bars to be 500 unless stated otherwise.

8. Safe Bearing Pressure taken to be 250 KN/m².
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm².

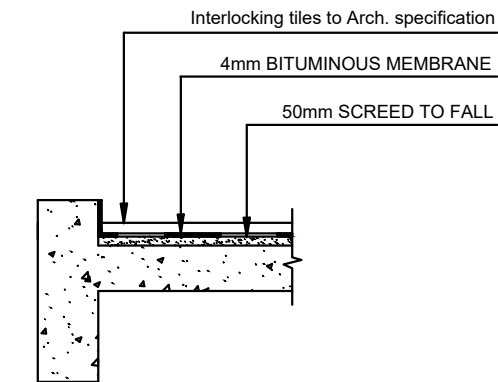
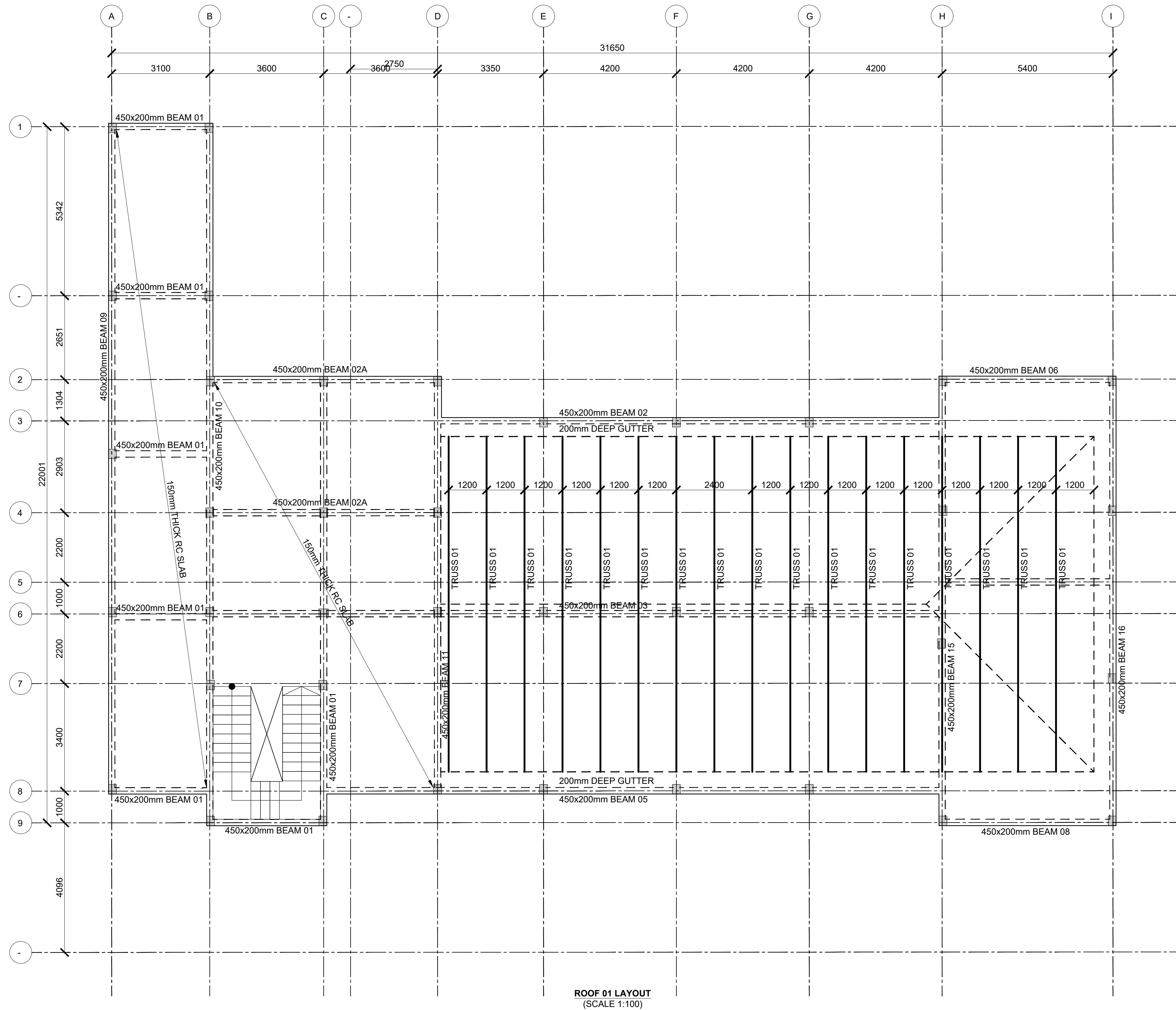
Designed by	DAN	Rev	Description	By	Date
Drawn by	DAN	D			
Checked by	HOH	C			
Scale	AS SHOWN	B			
		A			

DRAWING NO. 04-002-06

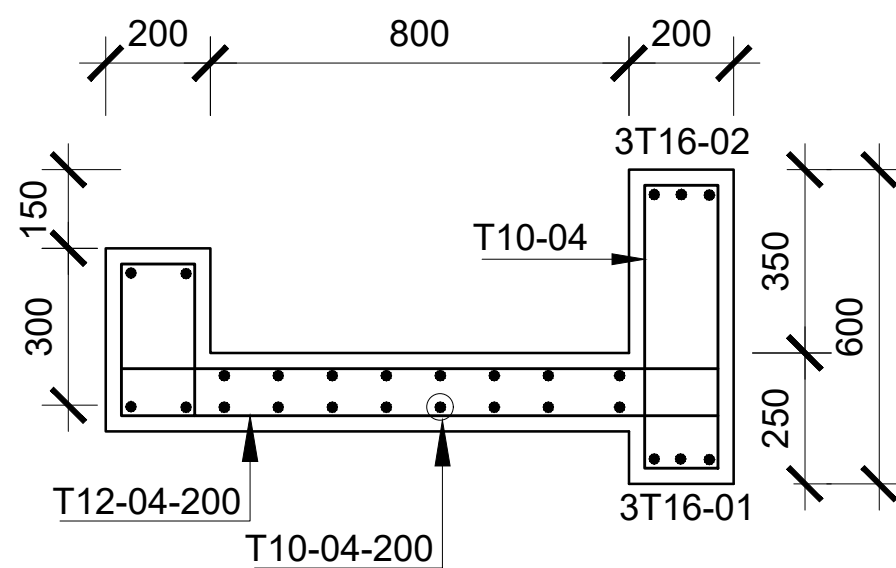




SECOND FLOOR SLAB RC DETAIL
(SCALE 1:100)



TYPICAL ROOF SLAB
W/POOFING DETAIL



GUTTER SECTION
(SCALE 1:25)

Consultant:-
ARPRIM CONSORTIUM
P.O. Box 12969-00100,
Nairobi, KENYA.
Tel: 02 608 906
Fax: 02 608 907
E-mail: info@arprimconsultants.com

CLIENT:-
**STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE AND THE BLUE ECONOMY.**

PROJECT:-
**PROPOSED KENYA MARINE FISHERIES AND
SOCIO-ECONOMIC DEVELOPMENT (KEMFSD) NATIONAL
AND COUNTY FISHERIES INFRASTRUCTURE.**

PROJECT TITLE:-
PROPOSED LAMU OFFICES, LAMU COUNTY.

DRAWING TITLE:-
OFFICE BLOCK - ROOF 01 LAYOUT

NOTES

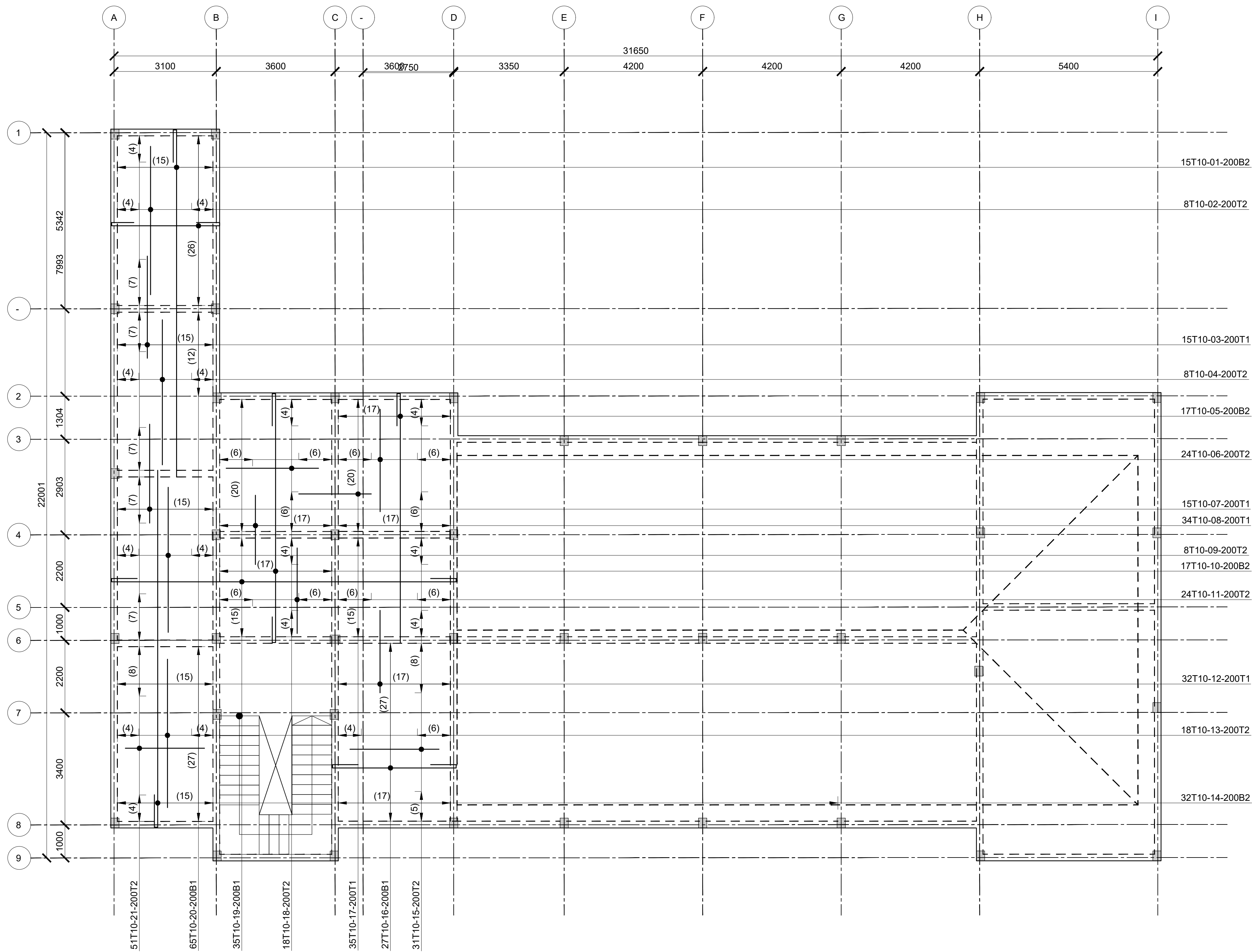
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12. Masonry Strength to be 7.0 N/mm².

Designed by	DAN	Rev	Description	By	Date
Drawn by	DAN	D			
Checked by	HOH	C			
Scale	AS SHOWN	B			
		A			

DRAWING NO. 04-002-09



ROOF 01 SLAB RC DETAIL
(SCALE 1:100)

Consultant:-
ARPRIM CONSORTIUM
P.O. Box 12969-00100,
Nairobi, KENYA.
Tel: 02 608 906
Fax: 02 608 907
E-mail: info@arprimconsultants.com

CLIENT:-
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PROJECT:-
**PROPOSED KENYA MARINE FISHERIES AND
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AND COUNTY FISHERIES INFRASTRUCTURE.**

PROJECT TITLE:-
PROPOSED LAMU OFFICES, LAMU COUNTY.

DRAWING TITLE:-
OFFICE BLOCK - ROOF 01 SLAB RC DETAIL

NOTES

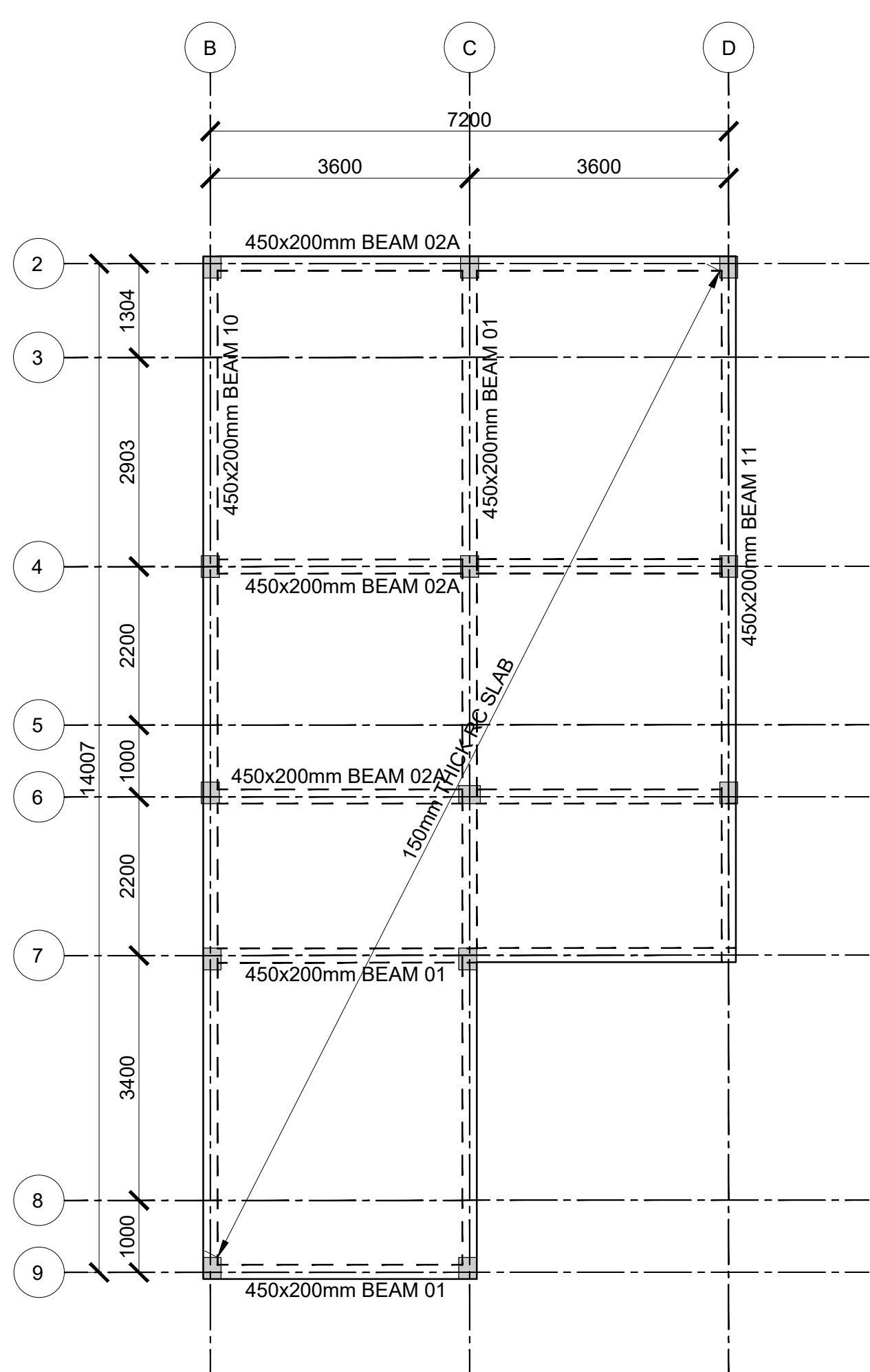
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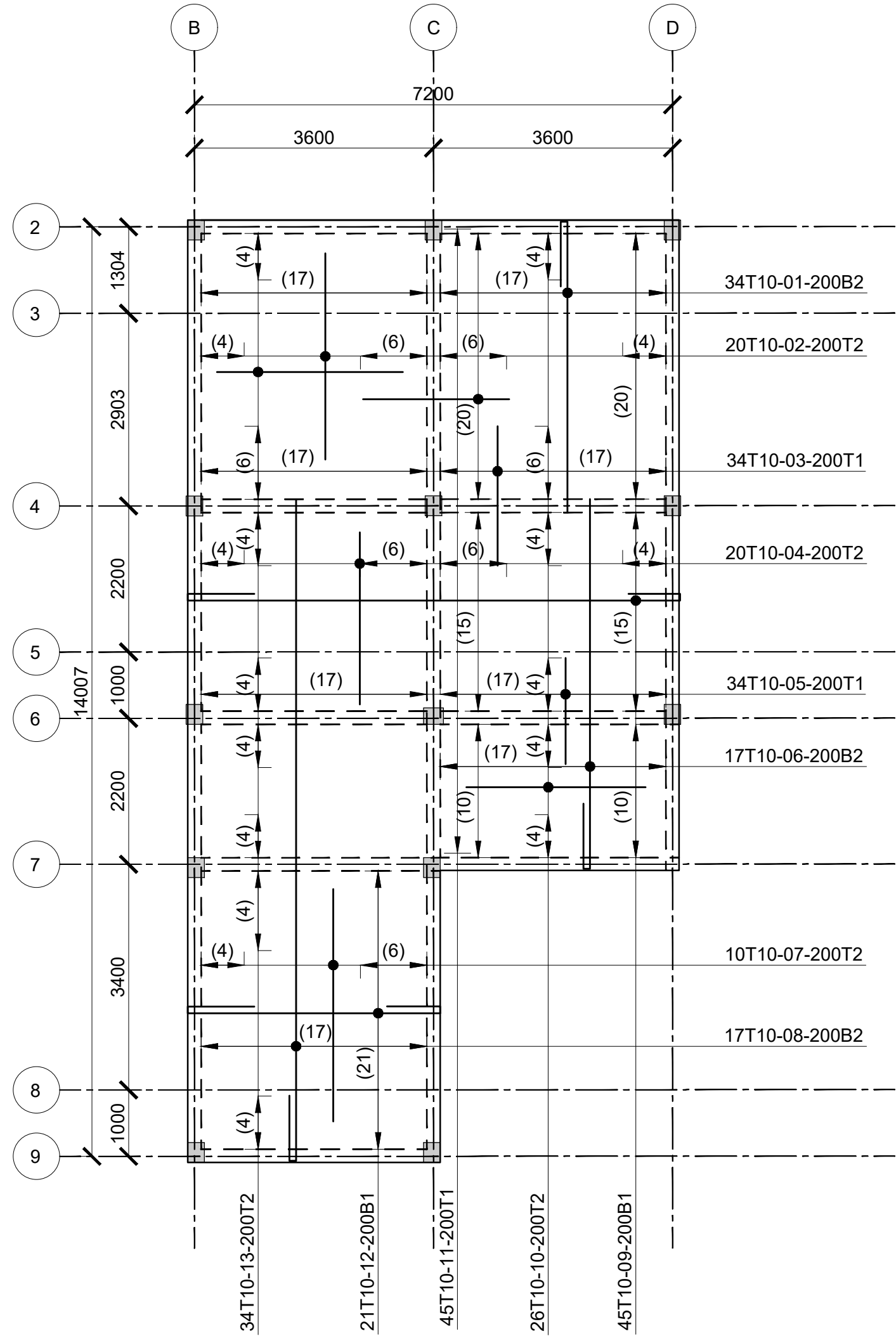
8. Safe Bearing Pressure taken to be 250 KN/m².
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm².

Designed by	DAN	Rev	Description	By	Date
Drawn by	DAN	D			
Checked by	HOH	C			
Scale	AS SHOWN	B			
		A			

DRAWING NO. 04-002-10

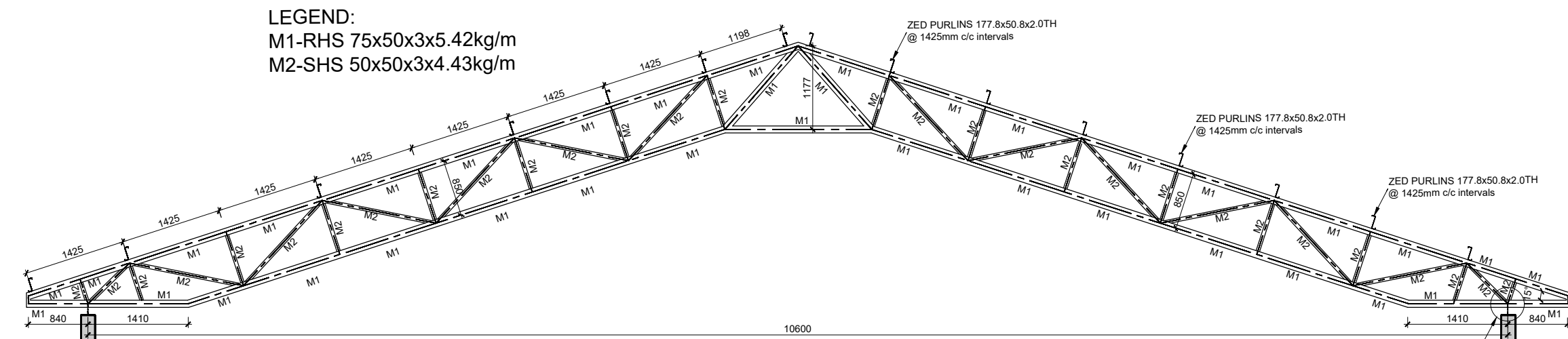


ROOF 02 LAYOUT
(SCALE 1:100)

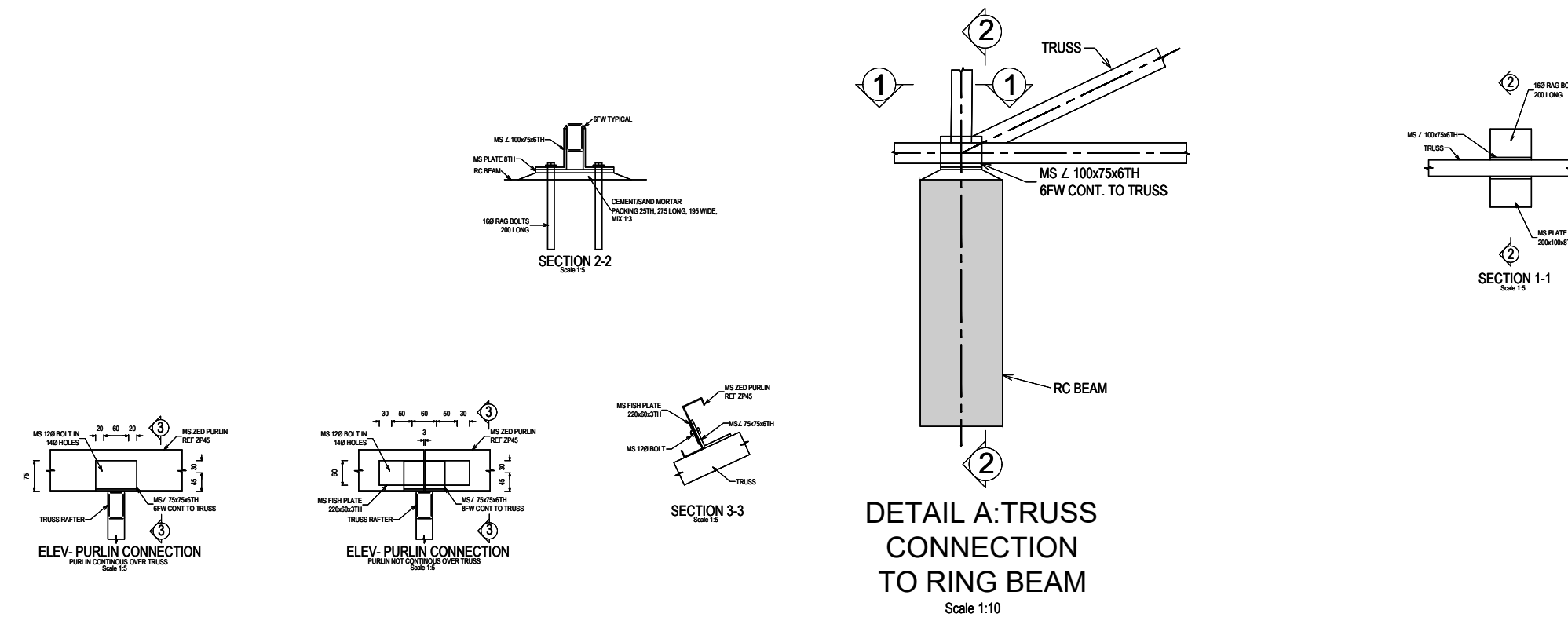


ROOF 02 SLAB RC DETAIL
(SCALE 1:100)

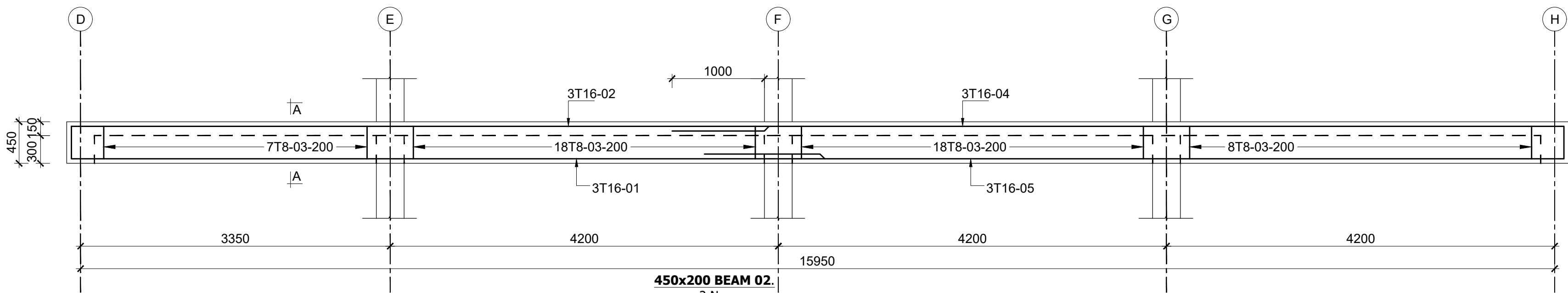
LEGEND:
M1-RHS 75x50x3x5.42kg/m
M2-SHS 50x50x3x4.43kg/m



TRUSS 01
17 Nos
Scale 1:50

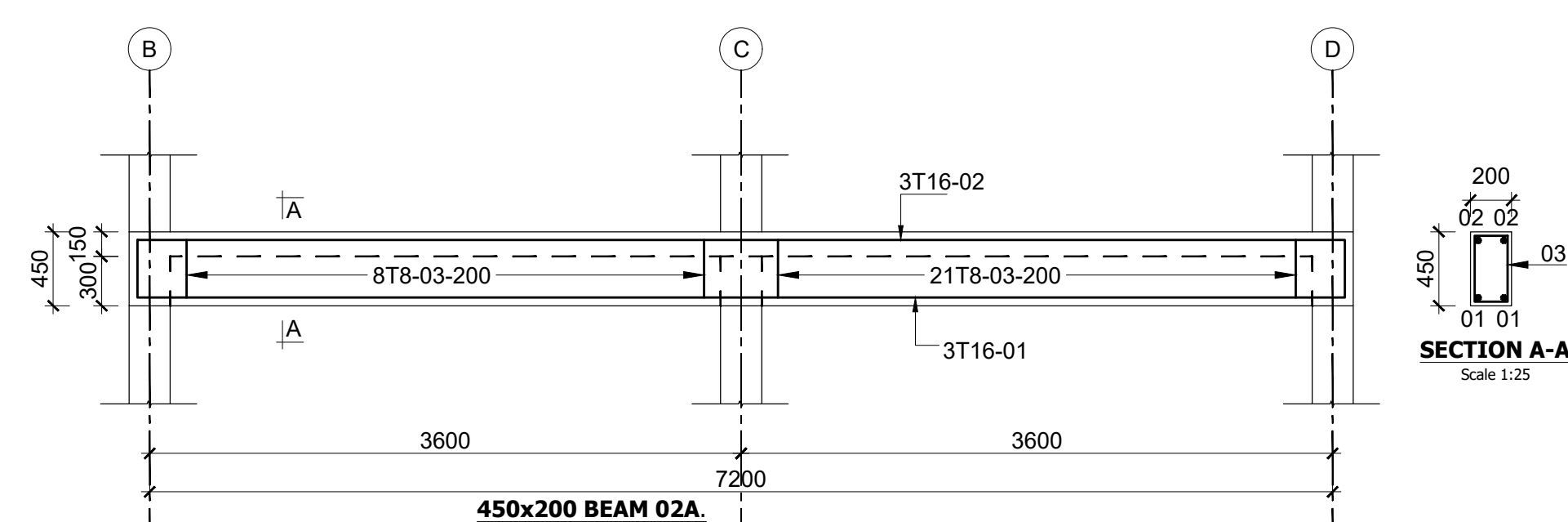


DETAIL A: TRUSS
CONNECTION
TO RING BEAM
Scale 1:10



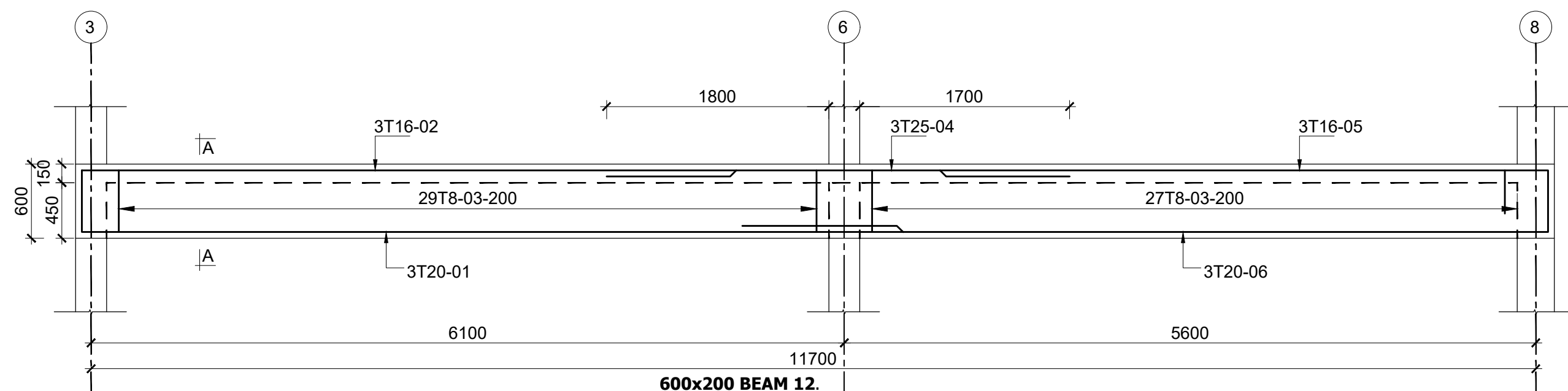
450x200 BEAM 02.
2 No.
Scale 1:25

SECTION A-A
Scale 1:25



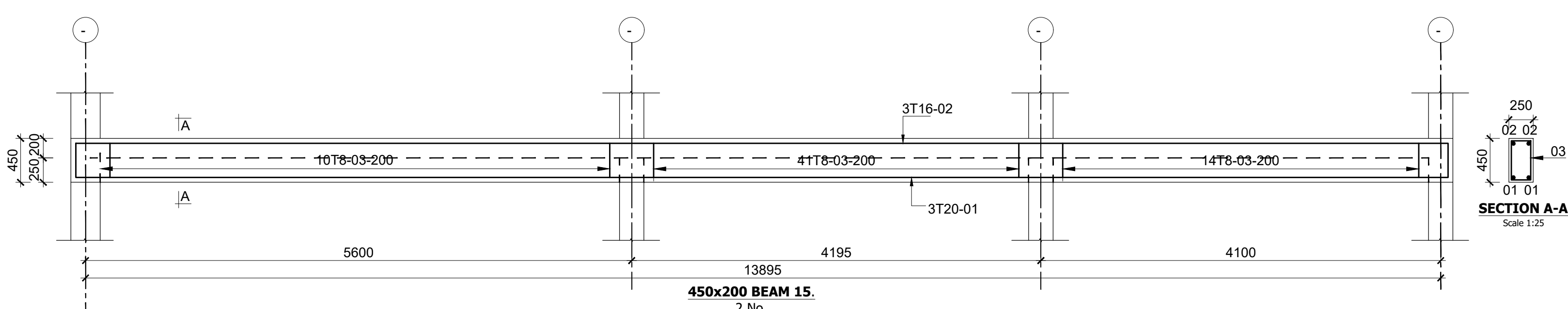
450x200 BEAM 02A.
1 No.
Scale 1:25

SECTION A-A
Scale 1:25



600x200 BEAM 12.
3 No.
Scale 1:25

SECTION A-A
Scale 1:25



450x200 BEAM 15.
2 No.
Scale 1:25

SECTION A-A
Scale 1:25

Consultant:-
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PROJECT:-
**PROPOSED KENYA MARINE FISHERIES AND
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AND COUNTY FISHERIES INFRASTRUCTURE.**

PROJECT TITLE:-
PROPOSED LAMU OFFICES, LAMU COUNTY.

DRAWING TITLE:-
OFFICE BLOCK - ROOF 02 AND BEAM DETAIL

NOTES

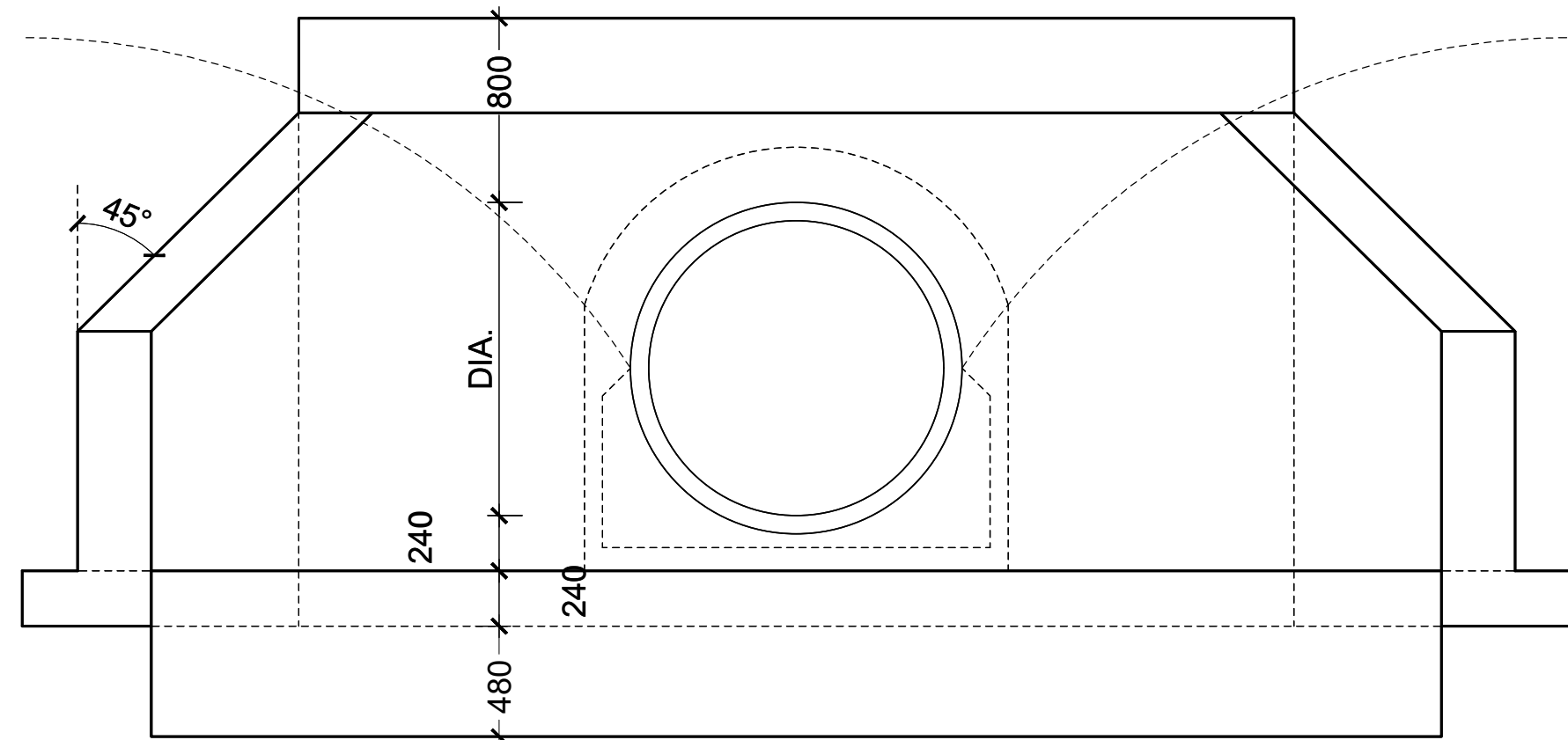
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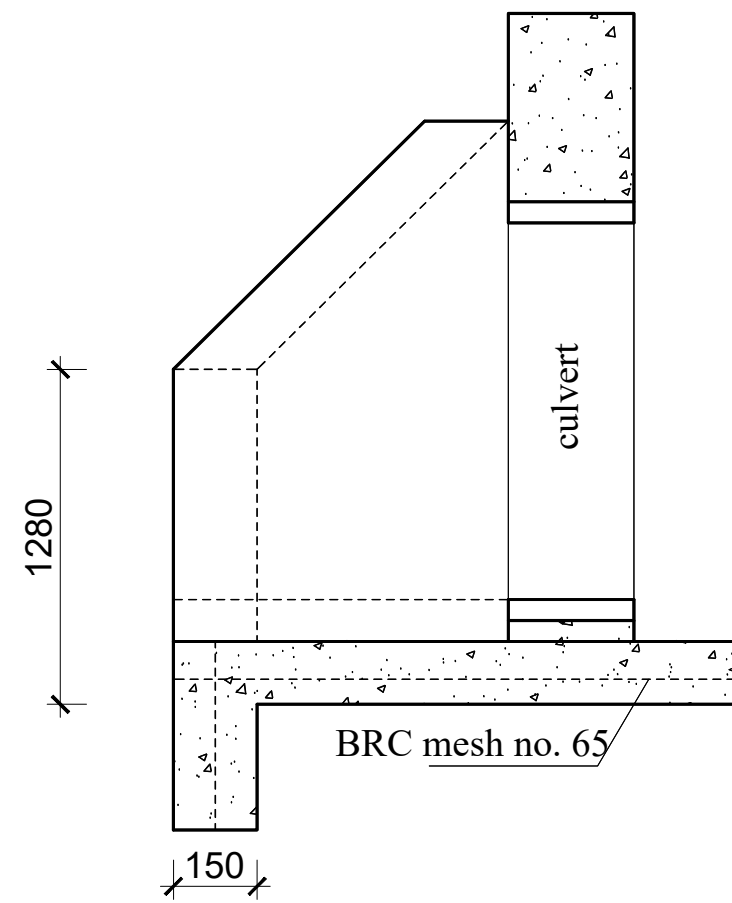
8. Safe Bearing Pressure taken to be 250 N/mm².
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm².

Designed by	DAN	Rev	Description	By	Date
Drawn by	DAN	D			
Checked by	HOH	C			
Scale	AS SHOWN	B			
		A			

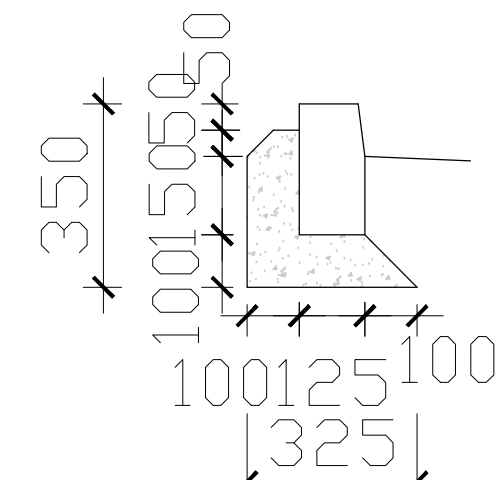
DRAWING NO. 04-002-11



ELEVATION

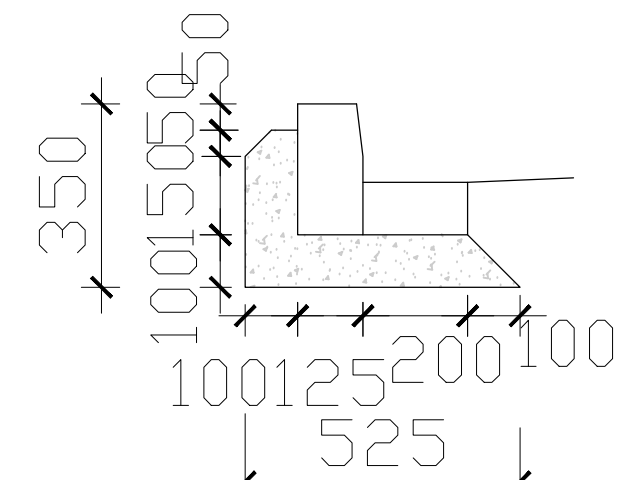


SECTION



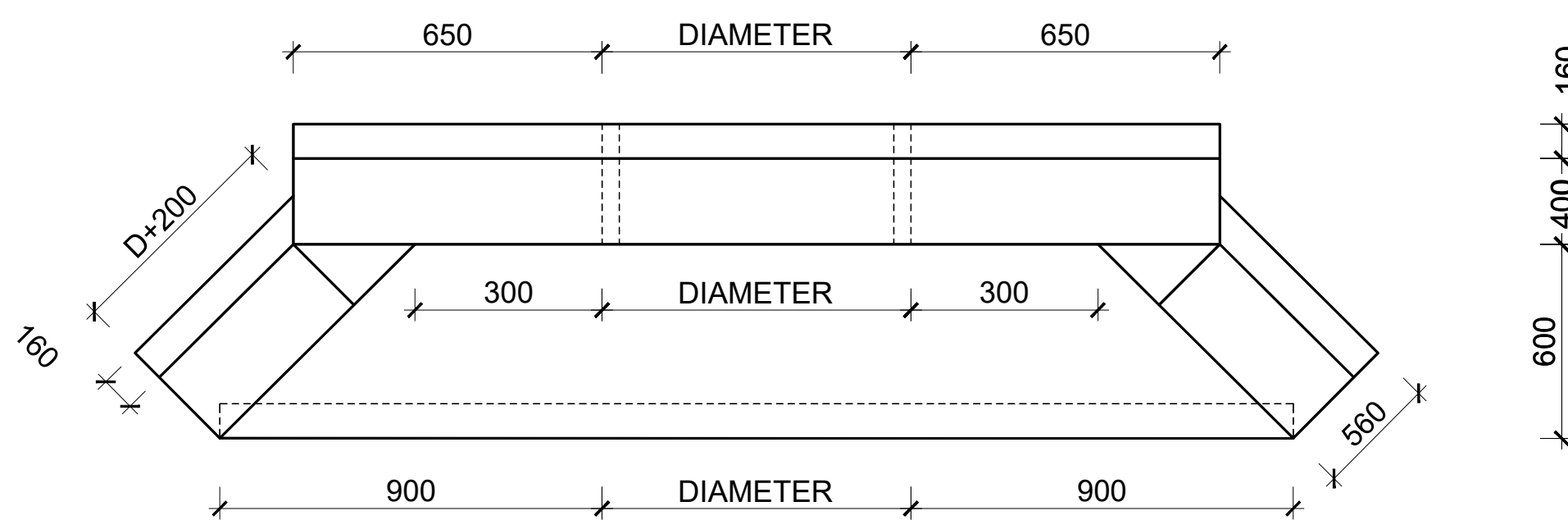
KERB ONLY

Scale 1:25

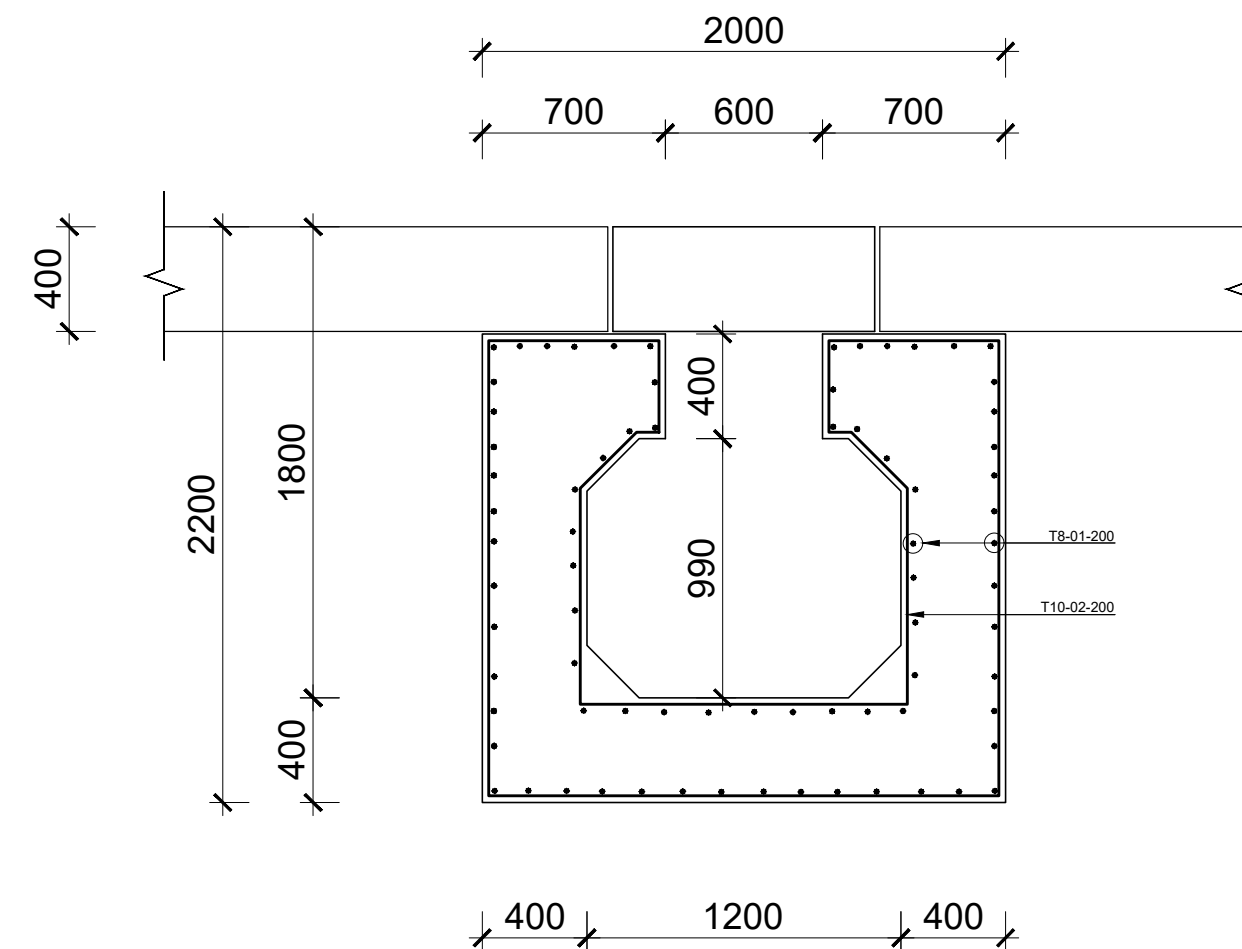


250x125 KERB AND
200x100 CHANNEL

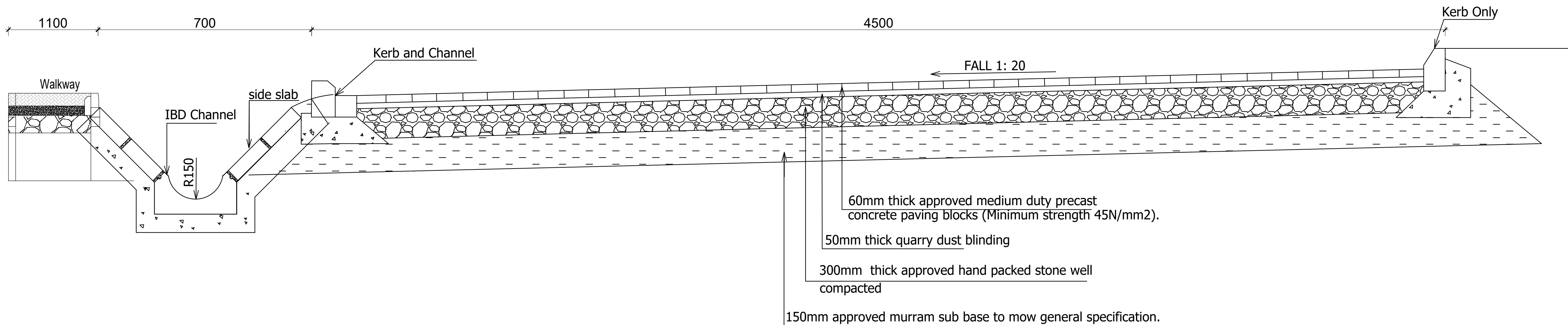
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PLAN



DRAIN TYPE A: R.C COVERED OPEN DRAIN

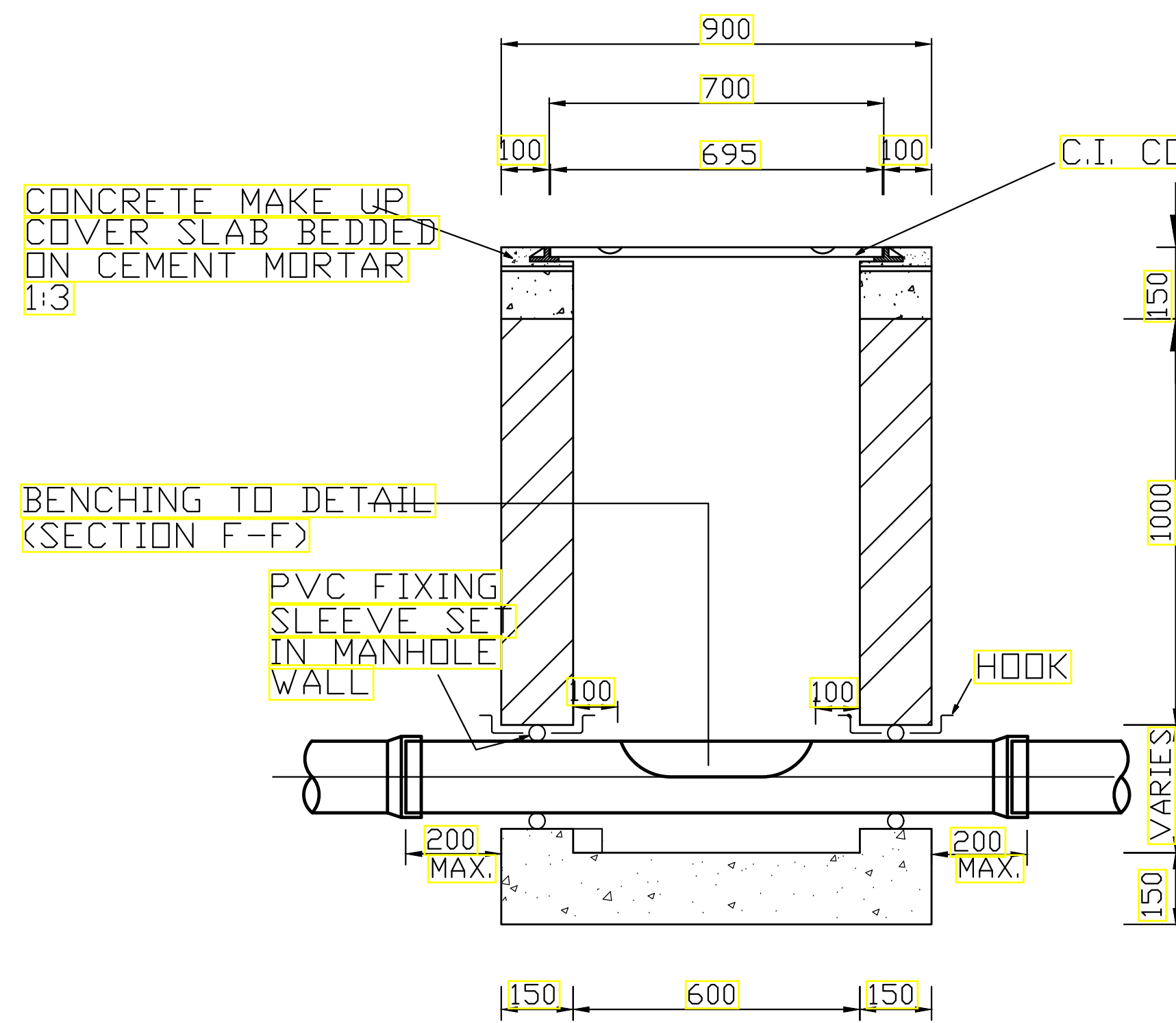


ROAD SECTION X-X (ONE WAY FALL)

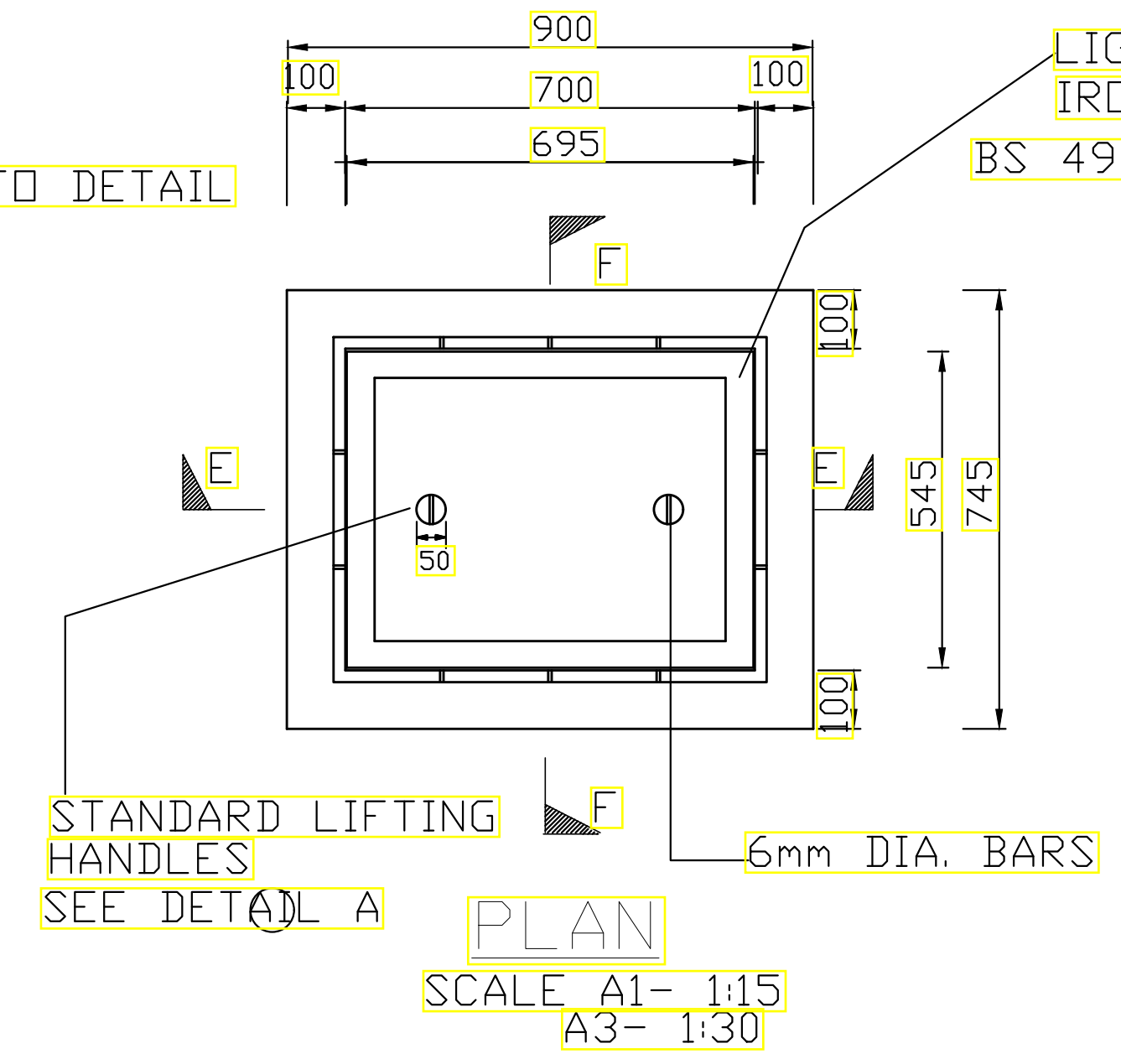
SCALE 1:50

<div>Consultant:-</div> <div>ARPRIM CONSORTIUM</div> <div>P.O. Box 12969-00100,</div> <div>Nairobi, KENYA.</div> <div>Tel: 02 608 906</div> <div>Fax: 02 608 907</div> <div>E-mail: info@arprimconsultants.com</div>	<div>CLIENT:-</div> <div>STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY.</div>	<div>PROJECT:-</div> <div>PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFSD) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.</div>	<div>PROJECT TITLE:-</div> <div>PROPOSED LAMU OFFICES, LAMU COUNTY.</div> <div>DRAWING TITLE:-</div> <div>OFFICE BLOCK - CIVIL WORKS 1</div>	<div>NOTES</div> <div>1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.</div> <div>2. All dimensions are in millimetres unless specified otherwise.</div> <div>3. All levels are indicated in m unless specified otherwise.</div> <div>4. Minimum cover to all reinforcement to be:</div> <div>Stairs, Slabs & Walls = 35mm</div> <div>Beams (main bars) = 35mm</div> <div>Post-tensioned beams = 40mm</div> <div>Columns (main bars) = 40mm</div> <div>Foundations = 75mm</div> <div>5. Maximum tolerance on concrete cover is +/- 5mm.</div> <div>6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483.</div> <div>7. Minimum laps to all bars to be 500 unless stated otherwise.</div> <div>8. Safe Bearing Pressure taken to be 250 KN/m².</div> <div>9. Nominal aggregate size to be 20mm.</div> <div>10. Structural concrete to be Class 25 unless stated otherwise.</div> <div>11. Concrete blinding to be Class 15 unless stated otherwise.</div> <div>12. Masonry Strength to be 7.0 N/mm².</div>	<div>Designed by</div> <div>DAN</div> <div>Rev</div> <div>Description</div> <div>By</div> <div>Date</div>			
					<div>Drawn by</div> <div>DAN</div> <div>D</div> <td></td> <td></td> <td></td>			
					<div>Checked by</div> <div>HOH</div> <div>C</div> <td></td> <td></td> <td></td>			
					<div>Scale</div> <div>AS SHOWN</div> <div>B</div> <td></td> <td></td> <td></td>			
					<div></div> <div></div> <div>A</div> <td></td> <td></td> <td></td>			

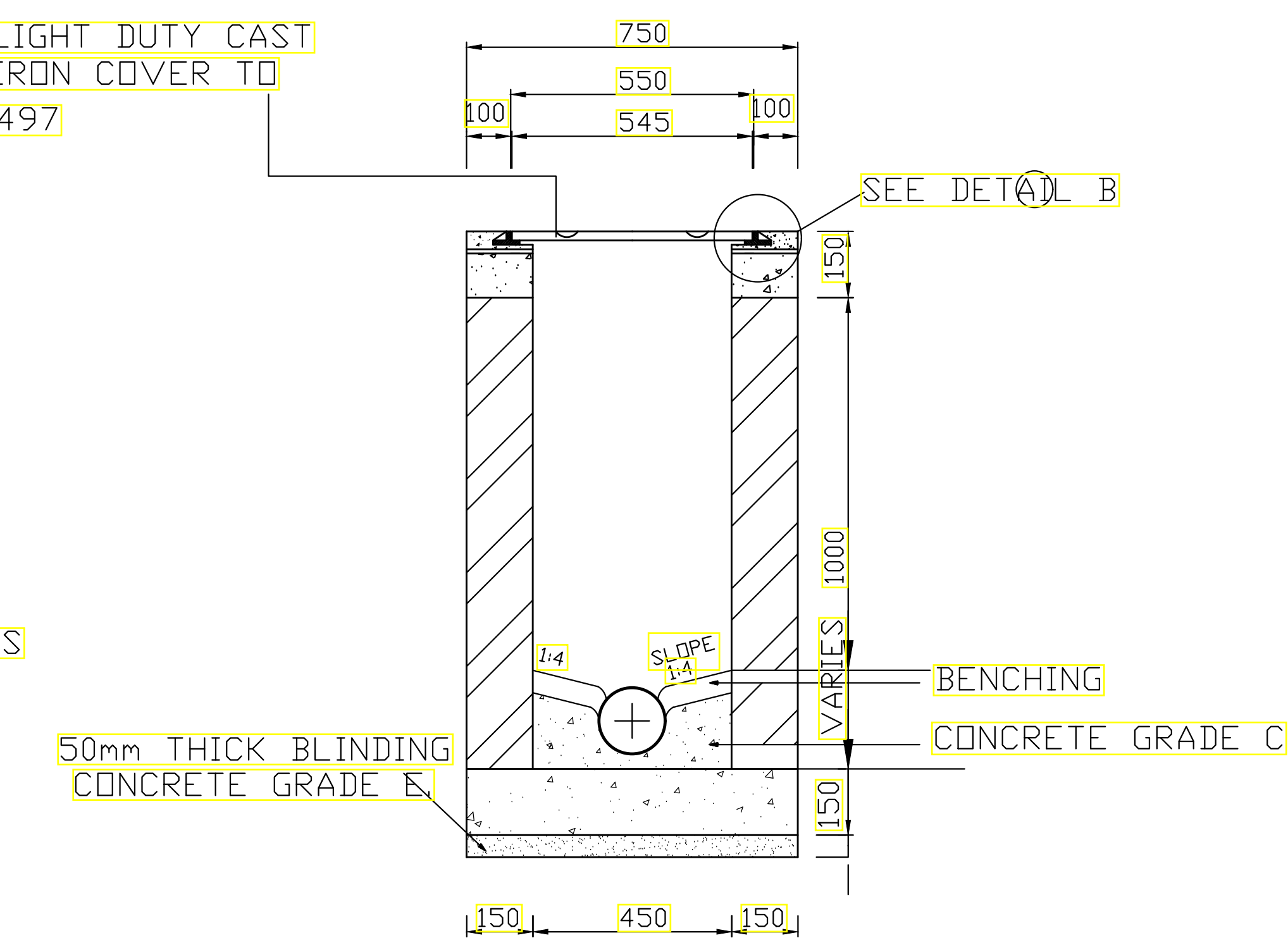
DRAWING NO. 04-002-12



SECTION E-E
SCALE A1- 1:15
A3- 1:30



PLAN
SCALE A1- 1:15
A3- 1:30

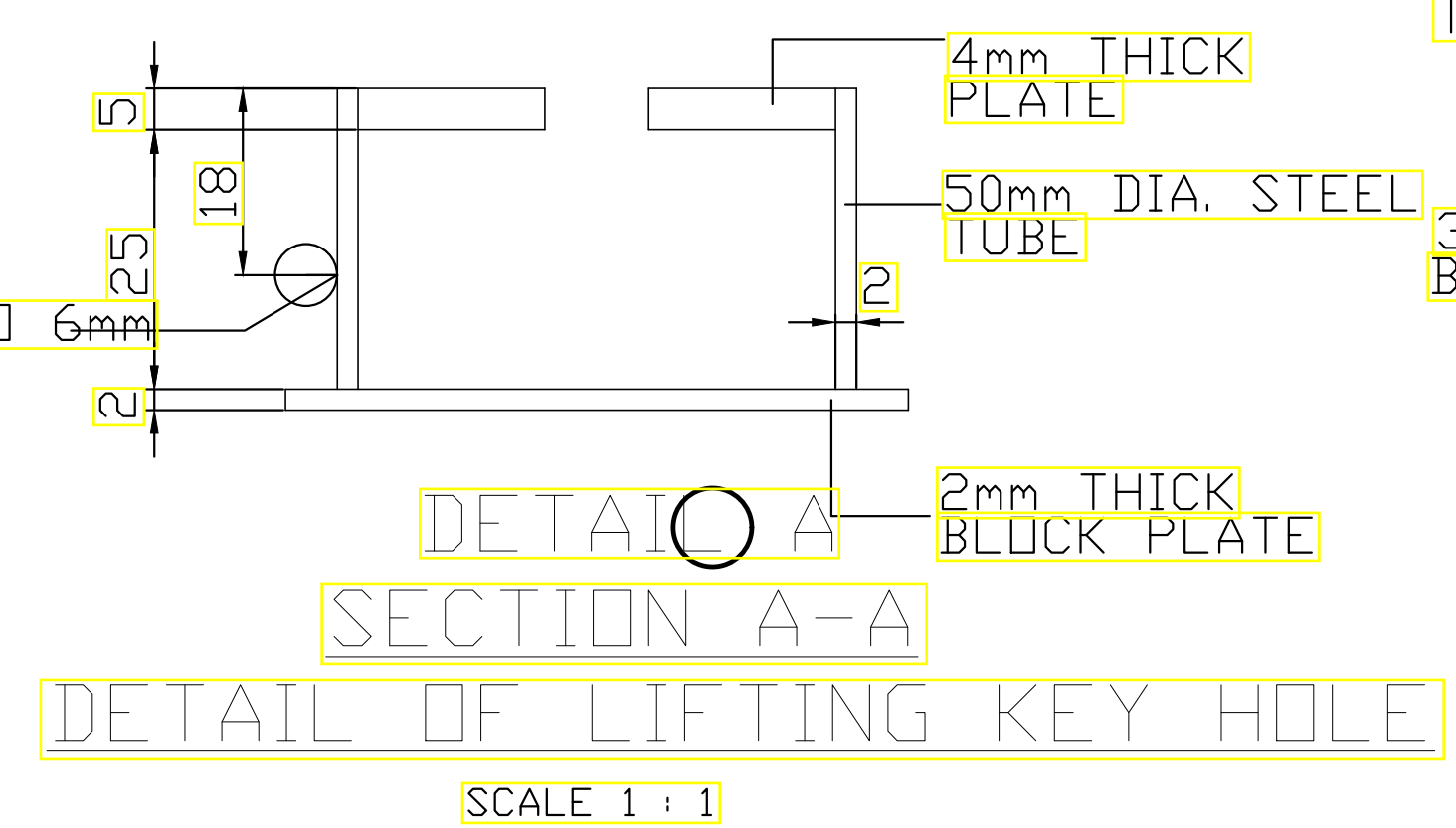
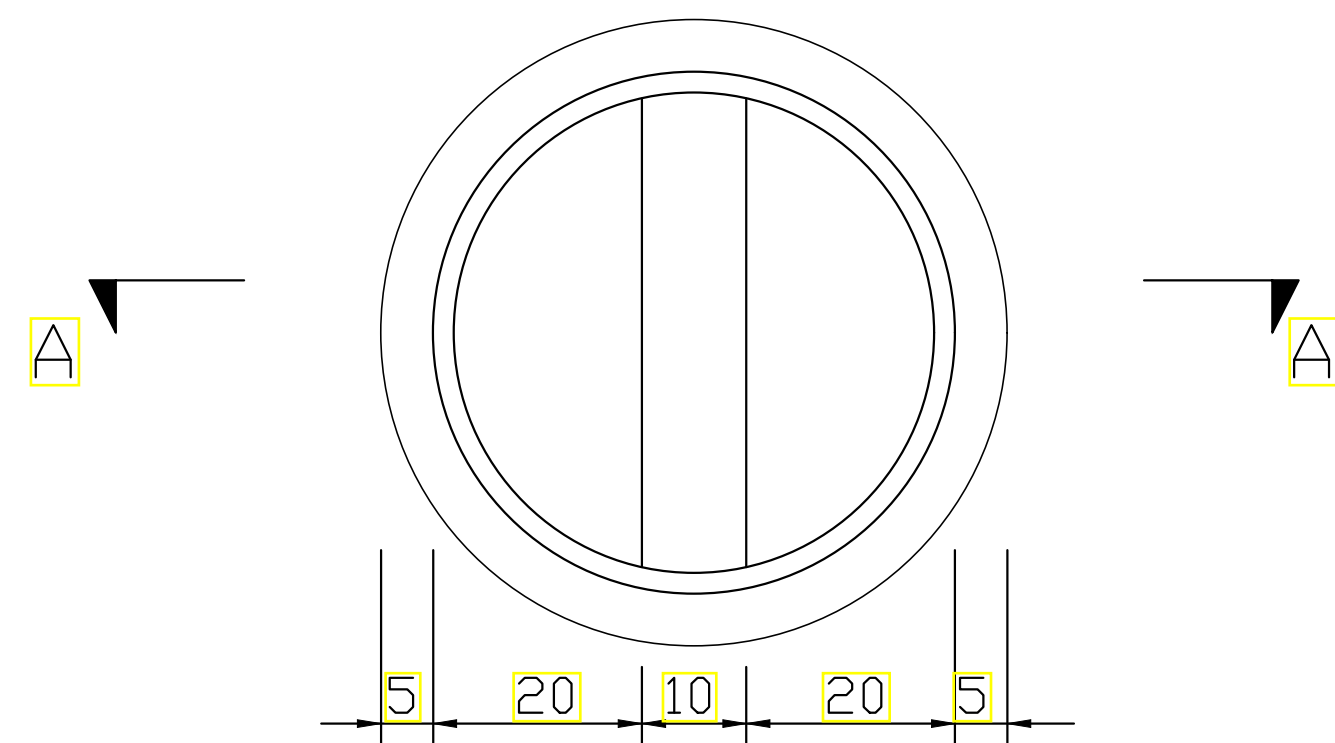


SECTION F-F
SCALE A1- 1:15
A3- 1:30

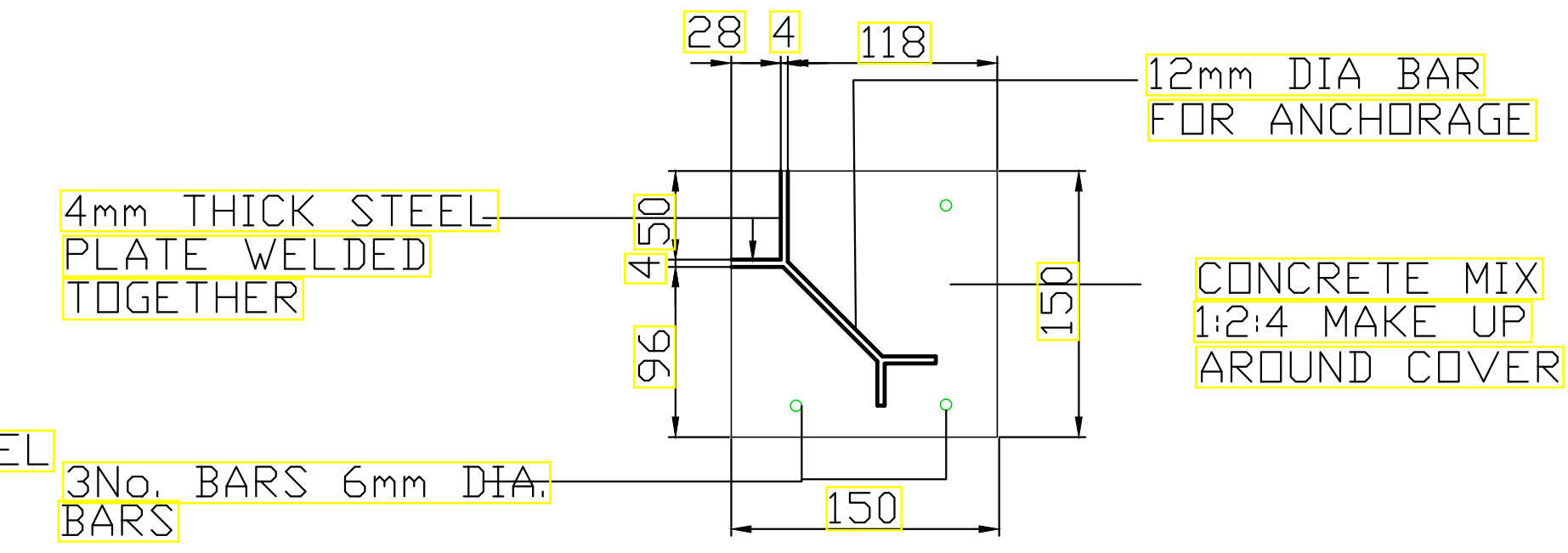
INSPECTION CHAMBER DETAILS

NOTES:

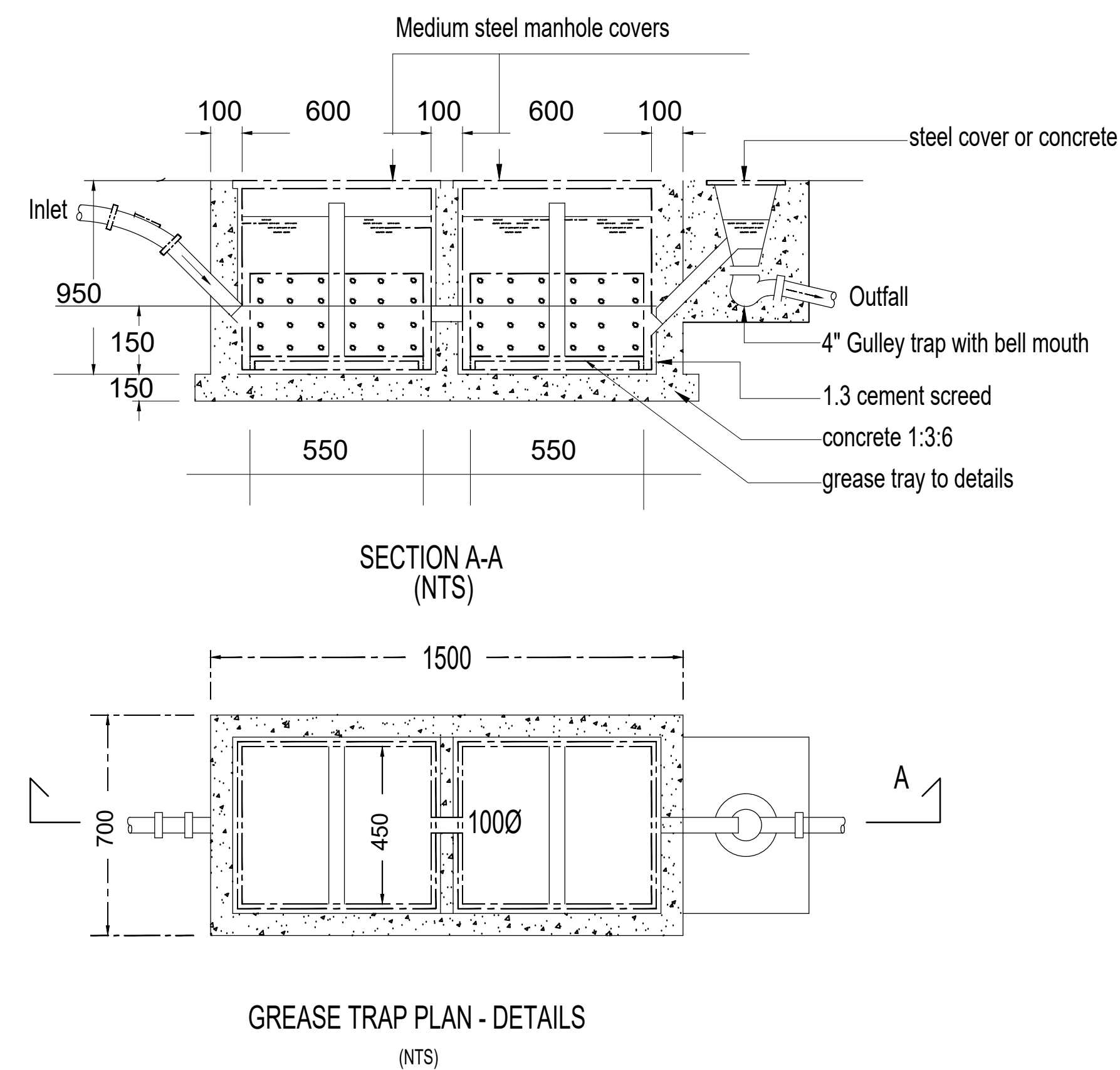
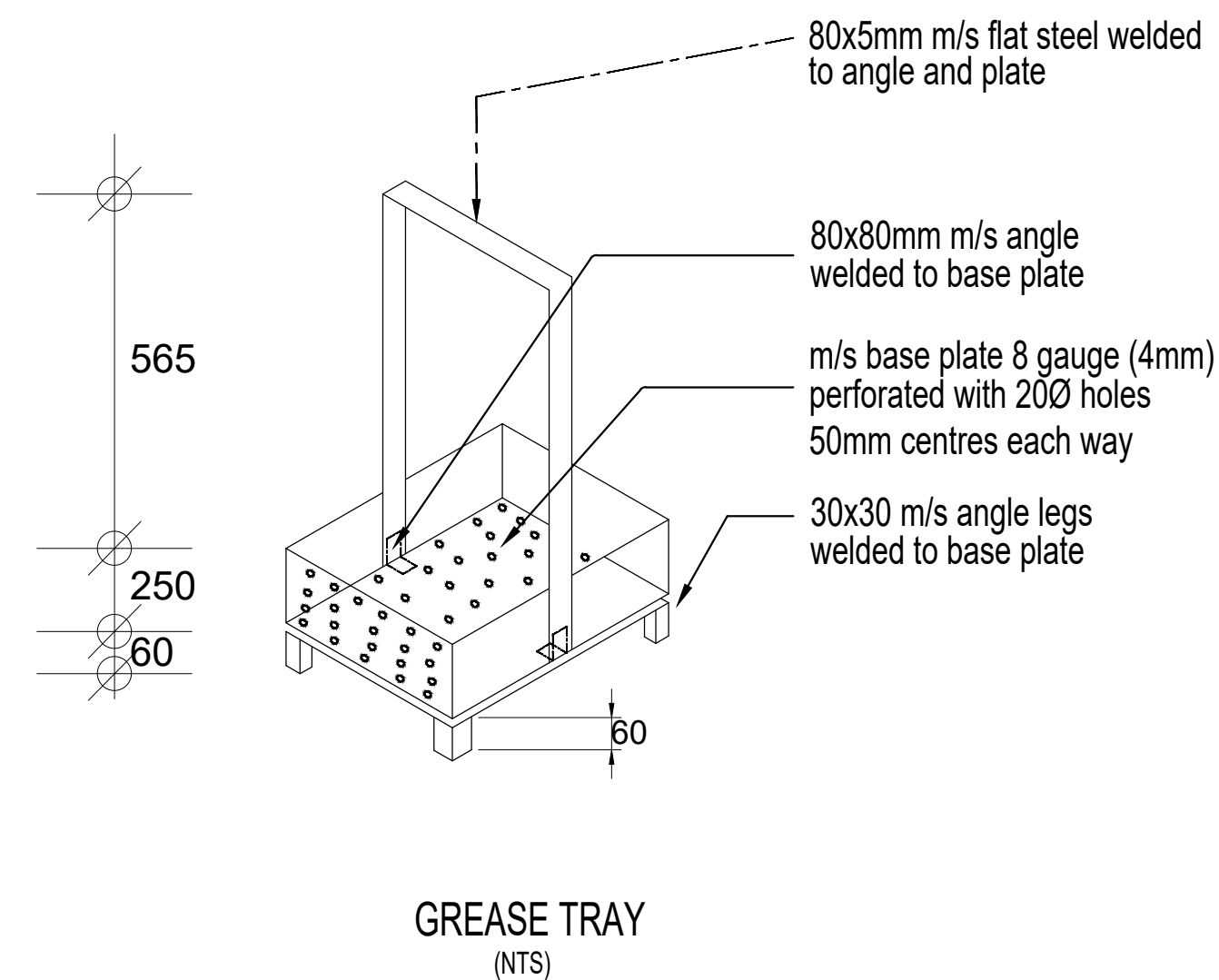
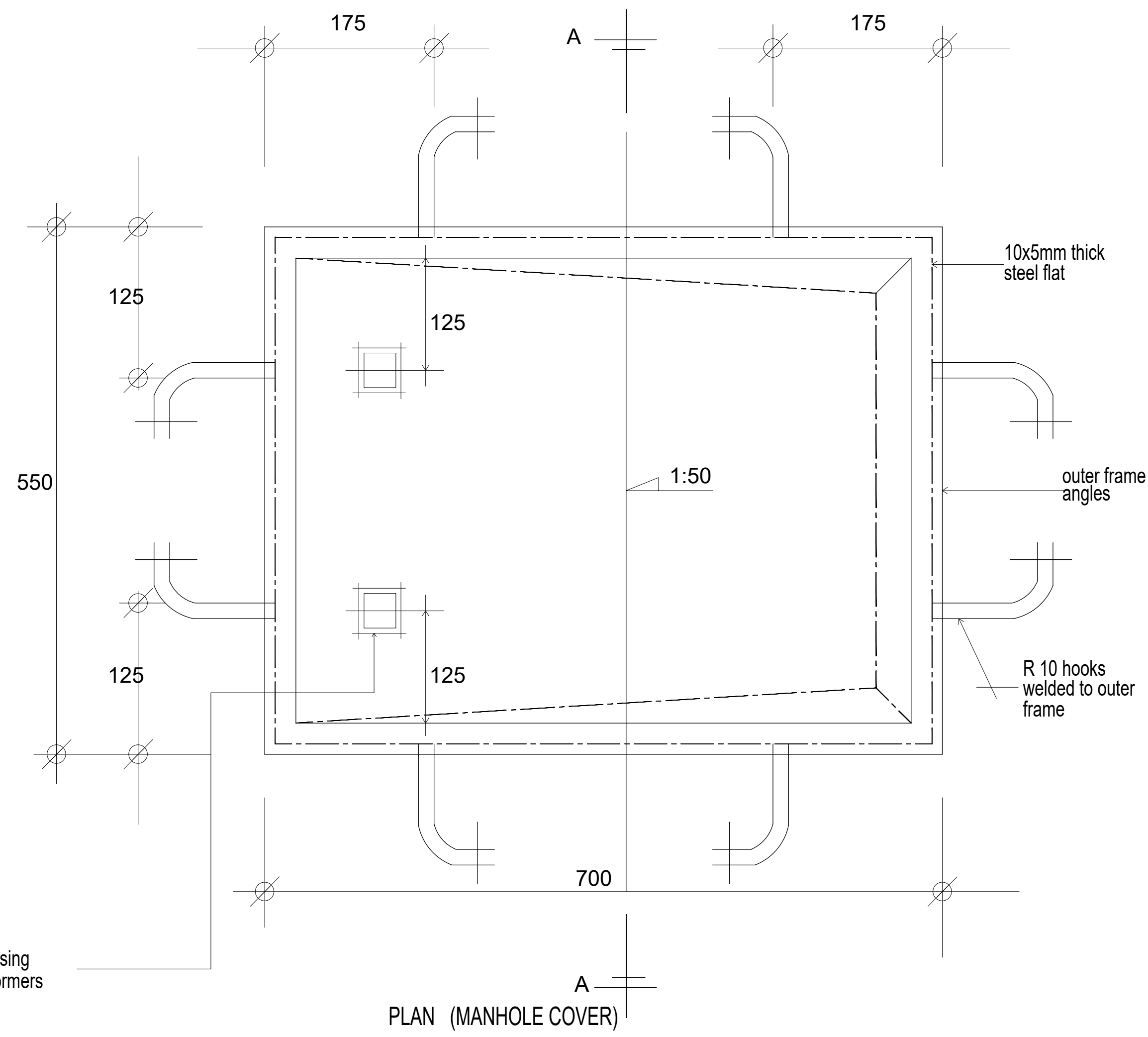
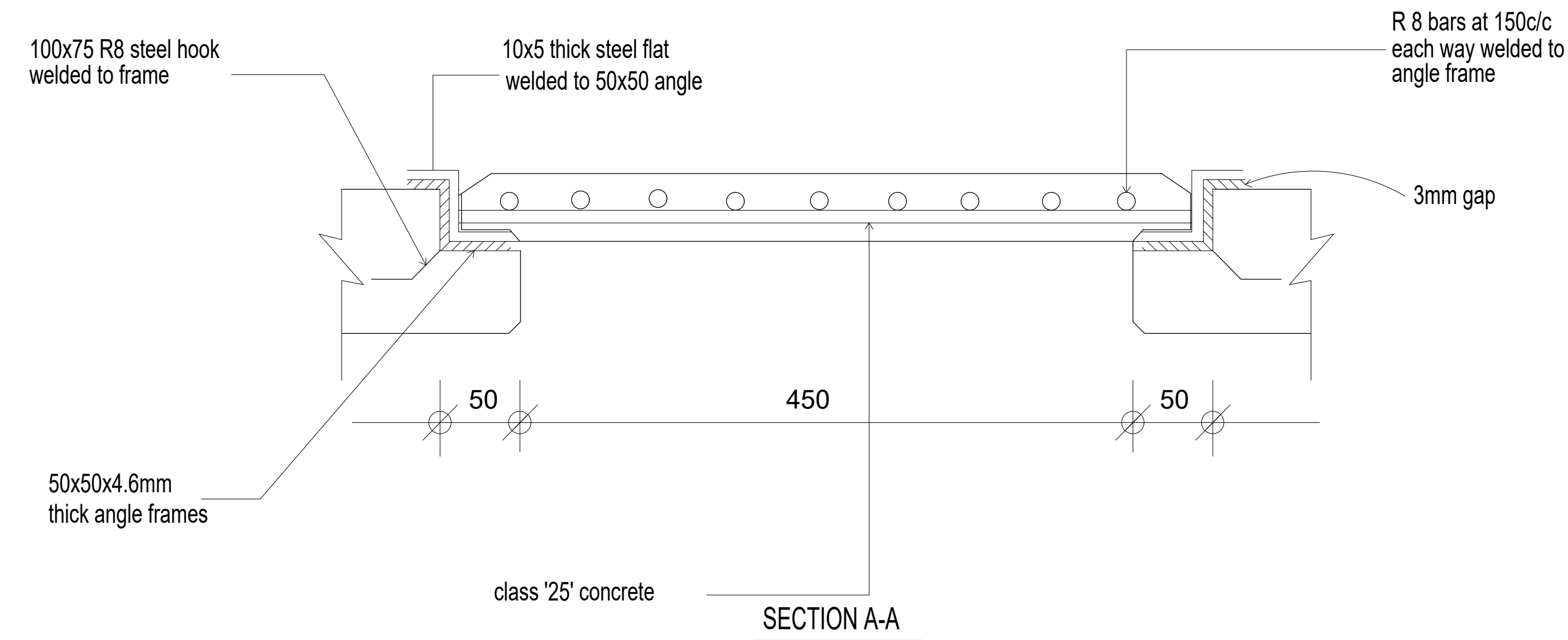
1. INSPECTION CHAMBER SHOULD BE SIZE 600x450mm UPTO DEPTH OF 1000mm
2. FOR INSPECTION CHAMBER EXCEEDING DEPTH 1000mm SIZE SHOULD BE 850x1200mm
3. WALLS OF INSPECTION CHAMBER TO BE OF MASONRY



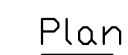
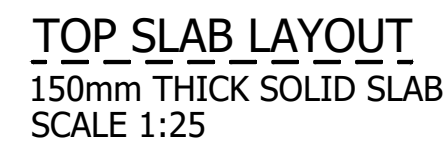
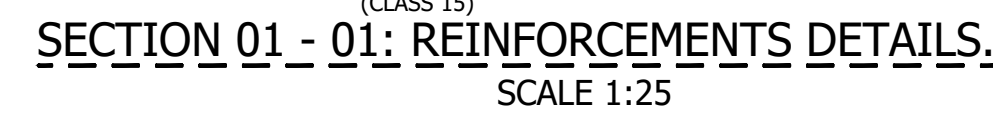
DETAIL A
SECTION A-A
DETAIL OF LIFTING KEY HOLE
SCALE 1 : 1



DETAIL B
SECTION SHOWING DETAIL OF FRAME FOR P.C.C - I.C COVER
SCALE 1 : 5



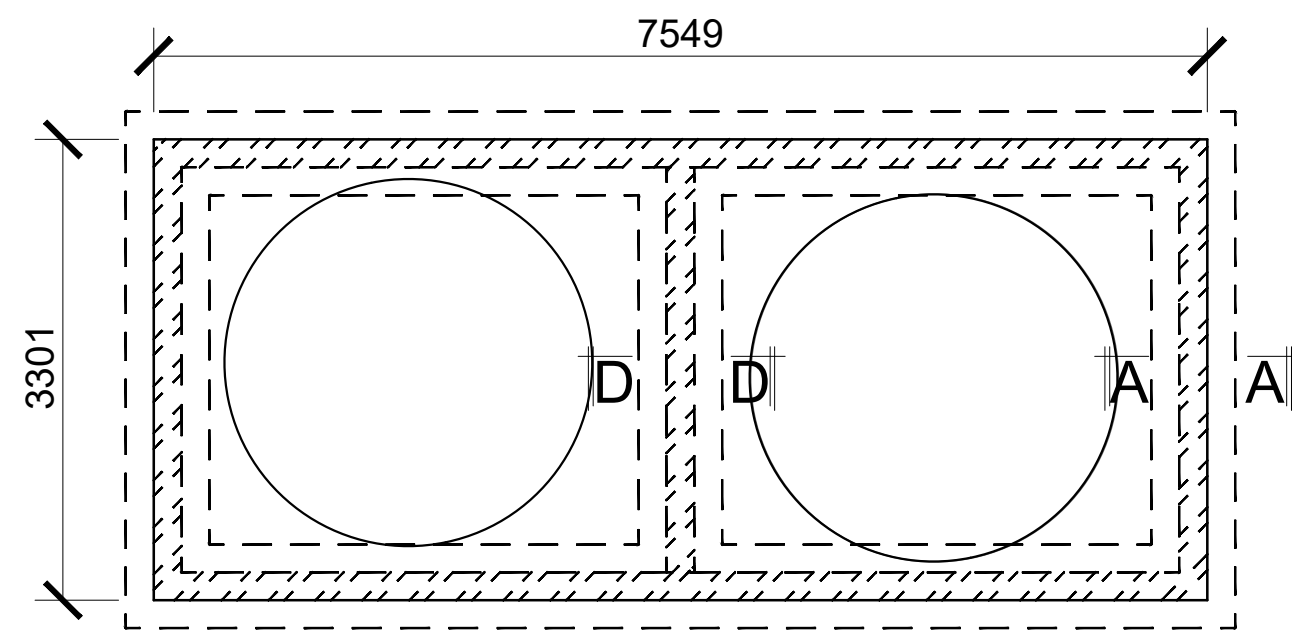
<div>Consultant:- ARPRIM CONSORTIUM P.O. Box 12969-00100, Nairobi, KENYA. Tel: 02 608 906 Fax: 02 608 907 E-mail: info@arprimconsultants.com</div>	<div>CLIENT:- STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY.</div>	<div>PROJECT:- PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFSED) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.</div>	<div>PROJECT TITLE:- PROPOSED LAMU OFFICES, LAMU COUNTY.</div> <div><div>DRAWING TITLE:- OFFICE BLOCK - CIVIL WORKS 3</div></div>	<div><div>NOTES</div><div><div>1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.</div><div>2. All dimensions are in millimetres unless specified otherwise.</div><div>3. All levels are indicated in m unless specified otherwise.</div><div>4. Minimum cover to all reinforcement to be:</div><div>Stairs, Slabs & Walls = 35mm Beams (main bars) = 35mm Post-tensioned beams = 40mm Columns (main bars) = 40mm Foundations = 75mm</div><div>5. Maximum tolerance on concrete cover is +/- 5mm.</div><div>6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483.</div><div>7. Minimum laps to all bars to be 500 unless stated otherwise.</div></div></div> <div><div>8. Safe Bearing Pressure taken to be 250 KN/m².</div><div>9. Nominal aggregate size to be 20mm.</div><div>10. Structural concrete to be Class 25 unless stated otherwise.</div><div>11. Concrete blinding to be Class 15 unless stated otherwise.</div><div>12. Masonry Strength to be 7.0 N/mm².</div></div> <table><tr><td>Designed by</td><td>DAN</td><td>Rev</td><td>Description</td><td>By</td><td>Date</td></tr><tr><td>Drawn by</td><td>DAN</td><td>D</td><td></td><td></td><td></td></tr><tr><td>Checked by</td><td>HOH</td><td>C</td><td></td><td></td><td></td></tr><tr><td>Scale</td><td>AS SHOWN</td><td>B</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>A</td><td></td><td></td><td></td></tr></table> <div>DRAWING NO. 04-002-14</div>	Designed by	DAN	Rev	Description	By	Date	Drawn by	DAN	D				Checked by	HOH	C				Scale	AS SHOWN	B						A			
Designed by	DAN	Rev	Description	By	Date																													
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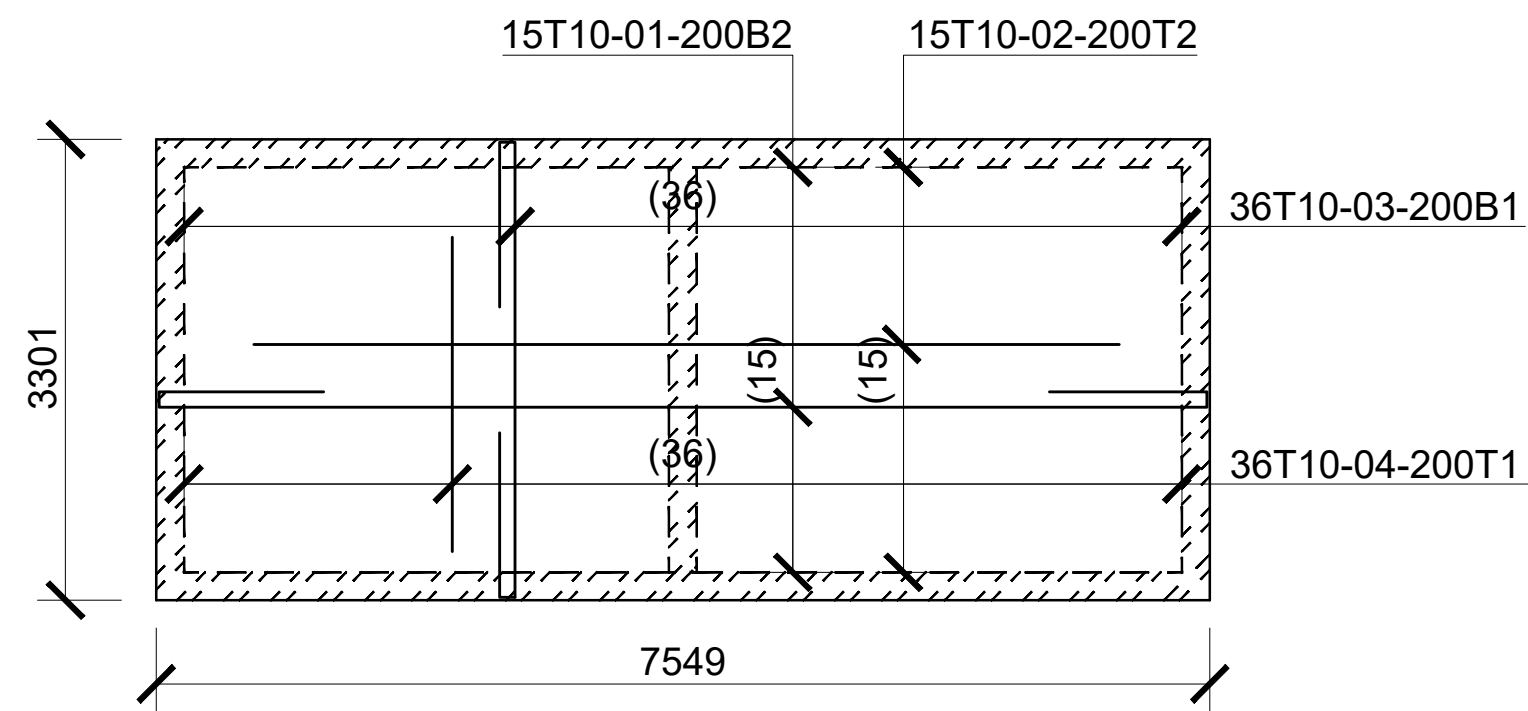
(Depth of Soak pit to be determined on site)

SOAK PIT DETAILS

<div>Consultant:-</div> <div>APRPRIM CONSORTIUM</div> <div>P.O. Box 12959-00100,</div> <div>Nairobi, KENYA</div> <div>Tel: 02 608 906</div> <div>Fax: 02 608 907</div> <div>E-mail: info@aprimconsultants.com</div>	CLIENT:-	PROJECT:-	PROJECT TITLE:-	NOTES	8. Safe Bearing Pressure taken to be 250 KN/m ² .	
	STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY.	PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFED) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.	PROPOSED LAMU OFFICES, LAMU COUNTY.	Stairs, Slabs & Walls = 35mm Beams (main bars) = 35mm Post-tensioned beams = 40mm Columns (main bars) = 40mm Foundations = 75mm 5. Maximum tolerance on concrete cover is +1.5mm. 6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4443. 7. Minimum laps to all bars to be 500 unless stated otherwise.	9. Nominal aggregate size to be 20mm. 10. Structural concrete to be Class 25 unless stated otherwise. 11. Concrete binding to be Class 15 unless stated otherwise. 12. Masonry Strength to be 7.0 N/mm ² .	
				1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer. 2. All dimensions are in millimetres unless specified otherwise. 3. All levels are indicated in m unless specified otherwise. 4. Minimum cover to all reinforcement to be:		
				DRAWING TITLE:- OFFICE BLOCK - BIO-DIGESTER AND SOAK PIT DETAIL		
				Designed by: DAN Drawn by: DAN Checked by: HOH Scale: AS SHOWN	Rev Description D C B A	By Date
					DRAWING NO. 04-002-15	



2No 10,000 LTRS
FRESH WATER RC SLAB PLATFORM LAYOUT.



2No 10,000 LTRS
FRESH WATER RC SLAB PLATFORM RC DETAILS.

DRAWING TITLE: PROPOSED CONSTRUCTION OF OFFICE & RELATED INFRASTRUCTURE- LAMU**DRAWING NUMBER: 04-003E- 001**

No.	DRAWING/ DOCUMENT TITLE	DRAWING NUMBER	DRAWING SHEET	DRAWING FORMAT	DOCUMENT STATUS
D	ELECTRICAL ENGINEERING DRAWINGS				
1	LIST OF DRAWINGS	04- 003E- 001	A3	PDF/ EXCEL	Provided
2	LIGHTING & POWER SYSTEM GENERAL NOTES	04- 003E- 002	A3	PDF/ DWG	Provided
3	ELECTRICAL SCHEDULE OF SYMBOLS	04- 003E- 003	A3	PDF/ DWG	Provided
4	GROUND FLOOR LIGHTING LAYOUT	04- 003E- 004	A2	PDF/ DWG	Provided
5	GROUND FLOOR POWER LAYOUT	04- 003E- 005	A2	PDF/ DWG	Provided
6	GROUND FLOOR FIRE ALARM LAYOUT	04- 003E- 006	A2	PDF/ DWG	Provided
7	GROUND FLOOR CCTV LAYOUT	04- 003E- 007	A2	PDF/ DWG	Provided
8	GROUND FLOOR FANS LAYOUT	04- 003E- 008	A2	PDF/ DWG	Provided
9	GROUND FLOOR SCHEMATICS	04- 003E- 009	A2	PDF/ DWG	Provided
10	FIRST FLOOR LIGHTING LAYOUT	04- 003E- 010	A2	PDF/ DWG	Provided
11	FIRST FLOOR POWER LAYOUT	04- 003E- 011	A2	PDF/ DWG	Provided
12	FIRST FLOOR FIRE ALARM LAYOUT	04- 003E- 012	A2	PDF/ DWG	Provided
13	FIRST FLOOR CCTV LAYOUT	04- 003E- 013	A2	PDF/ DWG	Provided
14	FIRST FLOOR FANS LAYOUT	04- 003E- 014	A2	PDF/ DWG	Provided
15	FIRST FLOOR SCHEMATICS	04- 003E- 015	A2	PDF/ DWG	Provided
16	SECOND FLOOR LIGHTING LAYOUT	04- 003E- 016	A2	PDF/ DWG	Provided
17	SECOND FLOOR POWER LAYOUT	04- 003E- 017	A2	PDF/ DWG	Provided
18	SECOND FLOOR FIRE ALARM LAYOUT	04- 003E- 018	A2	PDF/ DWG	Provided
19	SECOND FLOOR CCTV LAYOUT	04- 003E- 019	A2	PDF/ DWG	Provided
20	SECOND FLOOR FANS LAYOUT	04- 003E- 020	A2	PDF/ DWG	Provided
21	SECOND FLOOR SCHEMATICS	04- 003E- 021	A2	PDF/ DWG	Provided
22	ROOF FLOOR ELECTRICAL LAYOUT	04- 003E- 022	A2	PDF/ DWG	Provided
23	ROOF SLAB LIGHTNING ARRESTORS LAYOUT	04- 003E- 023	A2	PDF/ DWG	Provided
24	SITE PLAN ELECTRICAL LAYOUT	04- 003E- 024	A2	PDF/ DWG	Provided
25	STREET LIGHT DETAIL	04- 003E- 025	A2	PDF/ DWG	Provided
26	MAIN SCHEMATIC	04- 003E- 026	A2	PDF/ DWG	Provided
27	SOLAR SCHEMATIC	04- 003E- 027	A2	PDF/ DWG	Provided
28	EARTHING DETAIL	04- 003E- 028	A2	PDF/ DWG	Provided
29	SOCKET & SWITCHES DETAIL	04- 003E- 029	A2	PDF/ DWG	Provided
30	CONDUIT SUPPORT DETAIL	04- 003E- 030	A2	PDF/ DWG	Provided
31	CABLE TRAY DEATIL	04- 003E- 031	A2	PDF/ DWG	Provided

GENERAL NOTES

1. ALL ELECTRICAL WORKS CARRIED OUT SHALL COMPLY WITH THE LATEST EDITION OF IEEE WIRING REGULATIONS, BS 7671 AND RELEVANT LOCAL AUTHORITY REQUIREMENTS.
2. FARTHING INSTALLATION SYSTEM SHALL COMPLY WITH SECTION 5 OF WIRING REGULATION. SECTION 6 & 7 SHALL BE REFERENCED FOR ALL WIRING SYSTEMS. WIRING SHALL BE IN CONCEALED CONDUIT/TRUNKING UNLESS OTHERWISE SPECIFIED BY THE EE.
3. THE MOUNTING HEIGHT OF ALL SWITCH SOCKET OUTLET SHALL BE AT 300mm FROM FINISHED FLOOR LEVEL EXCEPT IN WET AREAS WHERE IT SHALL BE 1500mm FROM FINISHED FLOOR LEVEL OR UNLESS OTHERWISE STATED.
4. THE POSITIONING OF ALL LIGHTING LUMINAIRES, SWITCH SOCKET OUTLETS, DISTRIBUTION BOARDS ETC. AS SHOWN IN THE DRAWINGS ARE APPROXIMATE ONLY. THE EXACT POSITIONS SHALL BE DETERMINED AT SITE.
5. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL LOAD BALANCING, AND LABELING OF ALL EQUIPMENT AND SWITCHBOARDS THROUGHOUT THE INSTALLATION.
6. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO LIAISE WITH KPIC AND THE LOCAL AUTHORITIES FOR ALL CLEARANCES, CABLE JOINTING, TESTING AND ELECTRICITY METERING FOR THE INSTALLATION.
7. THE OVERALL RESISTANCE FOR THE FARTHING SYSTEM (ELECTRICAL) SHALL BE LESS THAN 1 OHM AND IN ANY CASE SHALL COMPLY WITH KPIC REQUIREMENTS.
8. ALL DISCHARGE LIGHTING LUMINAIRES, IF ANY, SHALL BE COMPLETE WITH BUILT-IN CONTROL GEAR, LAMP, LOW LOSS BALLAST, AND AUXILIARY QUARTZ LAMP FOR DISCHARGE LAMP RE-STRIKING.
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING OF ALL CABLE PENETRATION OPENINGS BETWEEN FLOOR SLAB AND WALLS ETC. WITH APPROVED FIRE RATING MATERIAL/SEALANT TO CONSULTANT'S APPROVAL.
10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING OF ALL CABLE PENETRATION OPENINGS THROUGH ROOF FLOOR SLABS, WALLS WITH APPROVED WATERPROOF MATERIALS AFTER THE INSTALLATION OF CABLES.
11. ALL FLUORESCENT LIGHTING LUMINAIRES SHALL BE COMPLETE WITH LOW LOSS BALLAST, TUBE LAMPS ETC. COLOR OF LIGHT OUTPUT SHALL BE AS SPECIFIED BY THE CONSULTANT OR INTERIOR DECORATOR.
12. THE ELECTRICAL SUB-CONTRACTOR SHALL BACKFILL WITH SANDBAG THE MANHOLES AND DRAW FITS TO COMPLY TO TECHNICAL SPECIFICATIONS.
13. ALL CABLES TO BE LAID IN HD UPVC PIPES SHALL BE ENCASED IN CONCRETE WHEN LAID ACROSS THE DRIVEWAY.
14. ALL UNDERGROUND WIRING SHALL BE OF XLPE/SWA/PVC CABLE (IN HD UPVC PIPE FOR HARD GROUND / PAVEMENT).
15. IT IS THE ELECTRICAL SUB-CONTRACTOR'S RESPONSIBILITY TO PROVIDE EARTH FAULT AND OVERCURRENT TRIPPING DISCRIMINATION BETWEEN THE SWITCHBOARD AND THE INCOMING FEEDER TO COMPLY WITH THE LOCAL POWER UTILITY COMPANY AND THE CONSULTANT'S REQUIREMENTS.
16. THE ELECTRICAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPOTENTIAL FARTHING, BONDING TO ALL METAL PARTS COMPLETED BY THE OTHER TRADES TO THE NEAREST ELECTRICAL PANEL / EARTH BAR.
17. ALL WIRING TO LIGHTING LUMINAIRES SHALL COMPRISE OF APPROVED CEILING ROSE FOR INDOOR INSTALLATION AND WEATHERPROOF JUNCTION BOX FOR OUTDOOR INSTALLATION. CONNECTION TO LIGHT FIXTURE SHALL BE BY MEANS OF PVC SHEATHED FLEXIBLE CABLE FOR NORMAL SUPPLY, FR CABLE FOR EMERGENCY SUPPLY AND ARMoured CABLE FOR OUTDOOR INSTALLATION.
18. ALL LIGHTING POLE SPECIFIED SHALL COMPRISE OF RAIL MOUNTED 10A MCB IN THE COMPARTMENT. ALL POLE SHALL HAVE ITS OWN LIGHTNING ELECTRODES. OUTDOOR INSTALLATION SHALL BE IN HEAVY DUTY UPVC PIPES OF 100mm DIAMETER (MINIMUM).
19. MCB'S RATED < 100A PROTECTING CABLES SUPPLYING LOADS WITH HIGH SWITCH-ON CURRENT (E.G. MOTORS, HID LAMPS, ETC.) SHALL HAVE TYPE 'C' MAGNETIC CURVE RATING UNLESS OTHERWISE INDICATED IN THE PLANS. UNLESS OTHERWISE STATED, ALL BUSBAR ARE OF 100 COPPER AND SHALL BE RATED AT A CURRENT DENSITY OF NO MORE THAN 1.55A/sq. mm.
20. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL NECESSARY LABOUR, MATERIALS AND EQUIPMENT FOR SATISFACTORY COMPLETION OF THE ENTIRE ELECTRICAL INSTALLATION AS GENERALLY DESCRIBED IN THE SPECIFICATION AND/OR SHOWN ON DRAWINGS.
21. ALL LOCATIONS OF EQUIPMENT AND CABLE ROUTES SHOWN ON THE DRAWING ARE APPROXIMATE. THE EXACT LOCATIONS MUST BE CO-ORDINATED ON SITE BEFORE INSTALLATION. FULLY CO-ORDINATED SHOP DRAWINGS MUST BE SUBMITTED TO THE CONSULTANT FOR APPROVAL BEFORE COMMENCEMENT OF WORK.
22. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DEWA REGULATIONS AND THE APPROVAL OF POWER UTILITY COMPANY. THEY SHALL BE PAINTED WITH A COAT OF ANTI-RUST PAINT AND TWO COATS OF SEMI-GLOSS TEAK PAINT OF BEST QUALITY TO THE APPROVAL OF THE CONSULTANT.
23. ALL POWER CONDUITS AND TRUNKING WHICH ARE EXPOSED SHALL BE PAINTED WITH A COAT OF RUST-RESISTING PRIMER AND TWO COATS OF ELECTRIC ORANGE.
24. ALL CONDUITS SHALL BE G.I. G.I. CONDUITS SHALL COMPLY WITH THE LATEST DEWA REGULATIONS ON ELECTRICAL INSTALLATIONS. MINIMUM SIZE SHALL NOT BE LESS THAN 20mm (INSIDE DIAMETER). ALL THREADS IN CONDUITS SHALL BE TREATED WITH ALUMINIUM PAINT OR SIMILAR ANTI-RUST PAINT TO PREVENT CORROSION AT JOINTS AND TERMINATION CONNECTIONS SHALL BE BY MEANS OF COUPLER, SHALL BE USED FOR DIFFERENT CIRCUITS.
25. PHASE SEGREGATION SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE IEEE WIRING REGULATIONS. SEPARATE CONDUITS SHALL BE USED FOR CABLES OF DIFFERENT CIRCUIT CATEGORIES. FOR 3 PHASE FINAL CIRCUITS, SEPARATE CONDUITS SHALL BE USED FOR DIFFERENT CIRCUITS.
26. ALL LIGHTING POINTS SHALL BE PROVIDED WITH CIRCUIT PROTECTIVE CONDUCTORS AND ALL METAL PARTS SHALL BE CONTINUOUSLY EARTHED THROUGHOUT.
27. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL LIGHT LUMINAIRES AS SHOWN ON THE DRAWINGS. EACH FITTING SHALL HAVE ITS OWN INDEPENDENT SUPPORT REGARDLESS OF SURFACE, RECESSED OR SUSPENDED MOUNTING.
28. EACH CIRCUIT SHALL BE TESTED FOR GROUNDS AND SHORTS BY MEANS OF A MEGGER. INSULATION RESISTANCE TESTING INSTRUMENT APPLYING A VOLTAGE OF NOT LESS THAN 500V D.C. UPON CIRCUIT UNDER TEST.
29. CABLES FOR ESSENTIAL CIRCUITS SUCH AS EMERGENCY LIGHTING CIRCUITS AND FIRE FIGHTING EQUIPMENT CIRCUITS ETC. SHALL NOT BE DRAWN INTO THE SAME CONDUIT, DUCT OR TRUNKING INTENDED FOR NORMAL CIRCUITS AS PER IEC 364 WIRING REGULATION. ALL CABLES AND WIRES FOR LIFE SAFETY AND ESSENTIAL CIRCUIT SHALL BE OF 2HRS FIRE RATED.
30. FOR SINGLE PHASE SUPPLY, CIRCUITS OF DIFFERENT PHASES SHALL NOT SHARE THE SAME CONDUIT.
31. ALL SHUNT TRIP RELEASES OF ACR'S IN THE MAIN ELECTRICAL SWITCHBOARD SHALL BE RATED AT 50V D.C. A BATTERY SUPPLY OF SUFFICIENT CAPACITY SHALL BE PROVIDED FOR THE TRIPPING OF ACR'S. CAPACITY OF BATTERY SHALL BE SUBMITTED FOR THE CONSULTANT'S APPROVAL PRIOR TO INSTALLATION.
32. ALL EARTH TESTS SHALL BE CARRIED OUT WITH A 1000V MEGGER TEST INSTRUMENT AND IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF DEWA WIRING REGULATIONS.
33. THE LIGHTNING PROTECTION SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST DEWA REGULATIONS PRACTICE AND BS-EN 62305 AND INSTALLED TO THE SATISFACTION OF THE CONSULTANT.
34. THE ELECTRICAL CONTRACTOR SHALL LIAISE WITH EHV SYSTEMS CONTRACTOR VIA THE MAIN CONTRACTOR TO ENSURE THAT POWER SUPPLIES FOR ALL EQUIPMENT ARE ADEQUATELY PROVIDED TO SUIT THE SYSTEM REQUIREMENTS.
35. EQUIPOTENTIAL BONDING SHALL BE PROVIDED FOR ALL TOILETS.
36. ALL POWER OUTLET, LIGHTING, ETC., LOCATIONS SHOWN ARE APPROXIMATE ONLY AND THE ELECTRICAL SUB-CONTRACTOR MUST CO-ORDINATE WITH LIAISON AND/OR THE INTERIOR DESIGNER, AS WELL AS EQUIPMENT SUPPLIERS.

37. THE DISTRIBUTION AND SIZE OF THE TRUNKING/CABLE TRAY SHOWN ON THE DRAWINGS ARE MEANT TO FACILITATE THE CONTRACTOR THE PROPOSED ROUTING OF THE MAIN AND SUB MAIN. THE CONTRACTOR SHALL SIZE THE TRUNKING/CABLE TRAY BASED ON THE EXACT CABLE SPACE AND CODE REQUIREMENTS. THE CONTRACTOR SHALL ALLOW 20% SPARE SPACE FOR FUTURE CABLE LAYING.
38. ALL ISOLATORS INSIDE MECHANICAL PLANTROOMS AND OTHER POTENTIALLY WET LOCATIONS SHALL BE PROVIDED WITH WEATHERPROOF ENCLOSURE (IP65).
39. CONTRACTOR TO CROSS REFER TO FIRE ALARM CAUSE AND EFFECT MATRIX. ALL DEVICES, INTERFACE, TERMINAL BLOCKS, WIRING ETC. NECESSARY FOR SATISFACTORY OPERATION OF FIRE ALARM AND FIRE STRATEGY SHALL BE DEEM INCLUDED IN THIS CONTRACT.

ELECTRICAL BOARD AND COMPONENTS

1. ALL MCCB'S INSTALLED SHALL COMPLETE WITH ADJUSTABLE THERMAL AND MAGNETIC SETTING OF APPROPRIATE RANGE.
2. ALL MCBs USED FOR PROTECTION OF LIGHTING AND SMALL POWER SHALL BE OF TYPE C CHARACTERISTIC. ALL MCCB/MPCBs USED FOR PROTECTION OF MOTOR LOADS SHALL BE OF TYPE D CHARACTERISTIC. HOWEVER, MOTOR PROTECTION COORDINATION STUDY SHALL BE SUBMITTED BY THE CONTRACTOR FOR ENGINEER'S/CONSULTANT'S REVIEW AND APPROVAL.
3. MCCBs/MCBs IN THE MAIN SWITCHBOARDS, SUB-SWITCHBOARDS, DISTRIBUTION BOARDS SHOWN HEREIN AND OTHER DRAWINGS PROTECTING MOTOR CIRCUITS FOR PUMPS, FANS, AIR'S, ETC. SHALL BE OF THE TYPE SUITABLE FOR MOTOR PROTECTION INCORPORATING OVERLOAD AND SHORT CIRCUIT PROTECTIVE DEVICES (ALSO EARTH FAULT PROTECTION WHERE SHOWN IN THE DRAWINGS) AND THEY SHALL BE SO SELECTED THAT THEY ARE ABLE TO COORDINATE WITH BOTH THE UPSTREAM AND DOWNSTREAM PROTECTION DEVICES.
4. ALL PROTECTION CTs SHALL BE OF CLASS COMPLYING TO DEWA REQUIREMENT OR BETTER.
5. ALL METERING CTs SHALL BE OF CLASS COMPLYING TO DEWA REQUIREMENT OR BETTER.
6. BUSBAR MARKINGS, ARRANGEMENTS, CONNECTIONS AND GRADE OF COPPER SHALL COMPLY AS APPROPRIATE WITH BS:159, 1433 AND 1577.
7. ALL ELECTRICAL BOARDS BUSBARS SHALL BE OF HARD DRAWN TINNED COPPER AND SHALL HAVE A CURRENT DENSITY OF NOT LESS THAN 1.55A/SQ.MM. WHEN MORE THAN ONE SET OF BUSBARS ARE USED PER PHASE, APPROPRIATE DERATING FACTOR SHALL APPLY.
8. ALL NON-CURRENT CARRYING METALLIC PARTS OF THE DISTRIBUTION BOARDS SHALL BE BONDED TO SYSTEM EARTH.
9. THERE SHALL BE A COMMON EARTH BAR IN EACH ELECTRICAL BOARD.
10. THE NEUTRAL LINKS AND EARTH BARS IN THE ELECTRICAL BOARDS SHALL BE LOCATED AT AN EASILY ACCESSIBLE POSITION AND SHALL BE KEPT CLEAR OF ANY OBSTRUCTIONS.
11. NEUTRAL AND EARTH BARS SHALL HAVE SUFFICIENT NUMBER OF WAYS TO MATCH THE NUMBER OF SUB-CIRCUITS WITH SPARES.
12. THE MINIMUM CLEARANCE AROUND THE NEUTRAL LINKS SHALL BE 50mm.
13. THE ELECTRICAL SUB-CONTRACTOR IS REQUIRED TO CARRY OUT HIS OWN FAULT LEVEL CALCULATIONS BASED ON THE CHARACTERISTICS OF THE EQUIPMENT OFFERED AND THE ACTUAL/AGREED ROUTING (SUBJECT TO THE SUPERVISING CONSULTANT APPROVAL) OF THE ACTUAL/AGREED ROUTING (SUBJECT TO THE SUPERVISING CONSULTANT APPROVAL) OF THE CABLES AND THEREAFTER SELECT THE MOST APPROPRIATE RATING CAPACITY OF SUB-SWITCHBOARDS, BUSBAR TRUNKING AND DISTRIBUTION BOARDS TO MEET THE PROSPECTIVE FAULT LEVELS. ALL COSTS IN CONNECTION THEREWITH SHALL BE DEEMED TO BE INCLUDED IN THE SUB-CONTRACT SUM. THE ELECTRICAL SUB-CONTRACTOR SHALL SUBMIT DETAILED CALCULATION & SELECTION FOR ELECTRICAL CONSULTANT'S APPROVAL.
14. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES THAT ARE EXPOSED TO WEATHER SHALL BE OF WEATHERPROOF TYPE TO IP65, UNLESS OTHERWISE STATED.
15. IDMTL OVERCURRENT AND EARTH FAULT RELAYS SPECIFIED SHALL BE COMPLETE WITH HIGH SET ELEMENT.
16. ALL OVERCURRENT, EARTH FAULT RELAYS AND EARTH LEAKAGE RELAYS SHALL BE TESTED ON SITE BY ELECTRICAL INSPECTION TESTER AND ALL COSTS CONNECTED THEREWITH SHALL BE DEEM TO BE INCLUDED IN THE SUB-CONTRACT SUM.
17. THE ELECTRICAL SUB-CONTRACTOR IS REQUIRED TO SUBMIT DETAILS OF FINAL ARRANGEMENT AND DIMENSIONAL LAYOUT OF ALL THE ITEMS OF EQUIPMENT IN RESPECTIVE ROOMS TO SUIT SITE CONDITIONS, ETC FOR REVIEW BY THE CONSULTANT BEFORE COMMENCEMENT OF INSTALLATION.
18. ALL MOTOR SHALL BE PROVIDED WITH EMERGENCY STOP BUTTON RIGHT NEXT TO THE EQUIPMENT.
19. UNLESS OTHERWISE INDICATED, THE MCCBs/MCBs INSTALLED FOR ANY MAIN SWITCHBOARDS, SUB-BOARDS AND DISTRIBUTION BOARDS SHALL HAVE THE FOLLOWING MINIMUM BREAKING CAPACITY:

MAIN SWITCHBOARD	: 50KA RMS, 1 SEC.
SUB-BOARDS	: 30KA RMS, 1 SEC.
DISTRIBUTION BOARDS	: 10KA RMS, 1 SEC.

CO-ORDINATION AND INSTALLATION

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN APPROVAL FROM STRUCTURAL ENGINEERS FOR PENETRATION THROUGH R.C. BEAMS AND FLOOR SLABS PRIOR TO CONSTRUCTION.
2. ALL CONDUITS LAYOUT AND INSTALLATION METHODS SHALL BE IDENTICAL IN ALL ROOMS AS MUCH AS POSSIBLE.
3. ALL MATERIALS/ CABLES TO BE USED AND INSTALLATION METHOD SHALL COMPLY WITH THE TECHNICAL SPECIFICATION, STANDARDS, CODE OF PRACTICE AND AUTHORITY REQUIREMENT.
4. THE ELECTRICAL CONTRACTOR IS REQUIRED TO SUBMIT DETAILS OF FINAL ARRANGEMENT AND DIMENSIONAL LAYOUT OF ALL ITEMS OF EQUIPMENT IN RESPECTIVE ROOMS TO SUIT SITE CONDITIONS, ETC. FOR REVIEW BY THE SUPERVISING CONSULTANT BEFORE COMMENCEMENT OF INSTALLATION.
5. ALL ELECTRICAL AND EHV DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE LATEST ARCHITECTURAL DRAWINGS, INTERIOR DESIGN DRAWINGS, OTHER SERVICES DRAWINGS AND SPECIFICATIONS.

LIGHTNING PROTECTION SYSTEM

1. LIGHTNING PROTECTION SYSTEM SHALL COMPLY WITH IEC CODE OF BS EN 62305.
2. THE POSITIONS OF THE ELECTRODES FOR LIGHTNING PROTECTION SYSTEM ARE APPROXIMATE ONLY. THE EXACT LOCATIONS ON SITE SHALL BE DETERMINED SUCH THAT THE SPECIFIED REQUIREMENTS OF EARTHING SYSTEM ARE COMPLIED.
3. ELECTRICAL CONTRACTOR SHALL LIAISE WITH MAIN CONTRACTOR FOR INSTALLATION OF EARTH ELECTRODE PITS. WATER PROOFING FOR ELECTRODES THROUGH R.C. SLAB SHALL BE PROVIDED UNDER THIS CONTRACT.
4. ALL PENETRATIONS THROUGH ROOF TO BE MADE WATER TIGHT AFTER INSTALLATION OF DOWN CONDUCTOR CABLES, ETC.

TENDER ISSUE

EARTHING SYSTEM

1. EARTH RESISTANCE WILL BE TESTED UPON COMPLETION OF EACH EARTHING POINT INSTALLATION BEFORE INTERCONNECTION OF THE EARTH POINT.
2. EARTH RESISTIVITY TEST SHALL BE CARRIED AT EACH EARTHING POINT.
3. ALL TAPE/CABLES/CLAMP CONTACT SURFACE SHALL BE HEAVILY TINNED PRIOR TO CONNECTION.
4. PRECAUTIONARY MEASURES SHALL BE TAKEN SO AS NOT TO OVER EXCAVATE THE EARTHING PIT.
5. PROPRIETARY CAD WELD CONNECTION SHALL BE EMPLOYED FOR CONNECTING EARTH CABLE TO EARTHING POINT STRICTLY IN ACCORDANCE TO THE INSTRUCTION OF THE SUPPLIER.
6. IMMEDIATELY UPON COMPLETION OF EACH GROUP OF EARTH POINT INSTALLATION, TEST SHALL BE CARRIED OUT TO ESTABLISH THE EARTH RESISTANCE. THE TEST RESULTS SHALL BE SUBMITTED TO CONSULTANT FOR APPROVAL.
7. AFTER COMPLETION OF THE EARTHING INSTALLATION AND SATISFACTORY TESTING, EACH OF THE EARTHING PIT SHALL BE SUITABLY GROUTED TO SUPERVISING CONSULTANT REQUIREMENT TO PREVENT INGRESS OF GROUND WATER. GROUTING MATERIALS USED SHALL BE SUBJECT TO CONSULTANT'S APPROVAL.

CABLES AND ANCILLARY PRODUCTS

1. ALL CABLES / WIRES FOR FINAL SUB-CIRCUIT WIRINGS SHALL BE PVC, MULTI-STRAND COPPER CONDUCTORS.
2. NO PVC CONDUIT/TRUNKING SHALL BE ALLOWED FOR THE WHOLE ELECTRICAL INSTALLATION UNLESS OTHERWISE STATED. IN GENERAL, ALL WIRING SHALL BE DONE WITHIN CONDUIT EMBEDDED IN SLAB FOR ALL SERVICES. EXPOSED CONDUIT/ WIRE SHALL NOT BE ACCEPTED.
3. SEPARATE CONDUIT/MULTI-OMC SWITCH BOX SHALL BE PROVIDED FOR FINAL SUB-CIRCUIT OF DIFFERENT PHASES. ALSO A SIGN SHALL BE PROVIDED TO INDICATE THE VOLTAGE BETWEEN THEM IN ACCORDANCE WITH DEWA REGULATION FOR THE INSTALLATIONS.
4. ALL EXTERNAL/LANDSCAPE LIGHTING POINTS SHALL BE PROVIDED WITH CABLES WITH ADDITIONAL LENGTH OF 5m.
5. SPACE FACTOR OF CONDUIT & TRUNKING SHALL COMPLY WITH DEWA REGULATION OF PRACTICE FOR WIRING OF ELECTRICAL EQUIPMENT OF BUILDINGS.
6. ALL SUB-MAINS CIRCUITS TO BE COMPLETE WITH CIRCUIT PROTECTIVE CONDUCTOR (CPC) COMPLYING TO DEWA REGULATION FOR THE INSTALLATIONS.
7. NEUTRAL & EARTH CABLES FOR EACH DIFFERENT CIRCUIT SHALL BE BROUGHT BACK TO THE SOURCE PANEL AND SHALL NOT BE LOOPED TOGETHER OUTSIDE THE PANEL.
8. ALL ELECTRICAL CONDUITS AND CONDUIT BOXES TO CAST WITHIN R.C. SLAB AT WET AREAS MUST HAVE TIGHTLY SEALED AND WATERPROOF JOINTS.
9. ALL UNDERGROUND JUNCTION BOXES SHALL BE OF G.I., TYPE. KNOCK OUT BOXES SHALL NOT BE USED AS UNDERFLOOR JUNCTION BOXES.
10. THE SIZES OF CABLE TRAY/TRUNKING/CONDUIT AS SHOWN IN DRAWINGS ARE APPROXIMATE ONLY. ELECTRICAL SUB-CONTRACTOR IS DEEMED TO HAVE ALLOWED IN HIS TENDER PRICE FOR ALL NECESSARY ADJUSTMENT TO ACCOMMODATE THE CABLES AND SHALL SUBMIT ALL DETAILED CO-ORDINATED CABLE CONDUIT/TRUNKING/IRAT/ JUNCTION BOXES IN PLANS AND SECTION DRAWINGS TO THE SUPERVISING CONSULTANT FOR CLEARANCE PRIOR TO STARTING WORK ON SITE.
11. ALL UNDERGROUND CABLES CROSSING DRIVEWAYS OR HARDCORE AREAS ARE TO BE PROVIDED WITH HEAVY DUTY PVC PIPES, ENCASED IN CONCRETE WITH FULL HAUNCHING.
12. ALL STRAIGHT CONDUIT RUNS EXCEEDING 8 METERS SHALL BE PROVIDED WITH JUNCTION BOX TO FACILITATE EASY WIRE / CABLE PULLING.
14. ALL FEEDER CABLES SHALL BE XLPE / SWA / LSOH FOR NORMAL CIRCUIT AND XLPE / SWA / FR FOR EMERGENCY CIRCUITS.

LUMINAIRES

1. ALL LIGHTING SWITCHES SHALL COMPLY WITH CIBSE STANDARD, KENYA GREEN BUILDING REGULATION AND SHALL BE OF THE APPROVED TYPE.
2. FLUORESCENT LAMP TUBES USED AT PUBLIC AREAS SHALL BE OF COLOUR 83 WARM WHITE AND INSTANT START UNLESS OTHERWISE STATED AND OF LOW LOSS ENERGY SAVING TYPE.
3. ELECTRICAL CONTRACTOR SHALL REFER TO LIGHTING CONSULTANT - FOR FURTHER NOTES AND LEGENDS.
4. ALL EXIT LIGHTINGS SHALL BE POSITIONED NOT MORE THAN 2.4m ABOVE FFL TO CENTRE OF FITTING.

POWER OUTLETS

1. SWITCH SOCKET OUTLETS AND SWITCHES MOUNTED SURFACE AT PLANTROOMS, STORES AND SIMILAR AREAS SHALL BE OF WEATHER PROOF TYPE UNLESS OTHERWISE STATED.
2. ALL ELECTRICAL EQUIPMENT & ACCESSORIES THAT ARE EXPOSED OR LESS THAN 2.0M AWAY FROM WET AREA SHALL BE OF WATERPROOF TYPE.
3. COLOUR FOR ALL SWITCHES, SWITCH SOCKET OUTLETS SHALL BE AS PER SUPERVISING CONSULTANT'S / ARCHITECT'S / INTERIOR DESIGNER'S SELECTION.
4. UNLESS OTHERWISE INDICATED, THE MOUNTING HEIGHTS FROM FINISHED FLOOR LEVELS FOR VARIOUS ITEMS OF ELECTRICAL WIRING ACCESSORIES/ EQUIPMENT SHALL BE AS FOLLOWS:

LIGHTING SWITCHES	= 1400mm TO CENTRELINE
SWITCH SOCKET OUTLETS	= 750mm TO CENTRELINE
DISTRIBUTION BOARDS	= GENERALLY 1800mm TO TOP OF BOARD
WALL/COLUMN LIGHTS	= 2500mm TO CENTRELINE
5. THE ELECTRICAL CONTRACTOR SHALL NOTE THAT THE POSITIONS OF ELECTRICAL POINTS, LUMINAIRES, LIGHTING SWITCHES, SWITCH SOCKET OUTLETS ETC. ARE INDICATIVE AND APPROXIMATE AS SHOWN ON DRAWINGS. THE ACTUAL POSITIONS SHALL BE BASED ON THE CONSULTANT'S OR INTERIOR DESIGNER'S DRAWING. THE ELECTRICAL SUB-CONTRACTOR IS DEEMED TO HAVE ALLOWED IN HIS TENDER PRICE FOR ALL NECESSARY SITE ADJUSTMENT TO SUIT THE FINAL POSITIONS.
6. LOCATIONS FOR ELECTRICAL DISTRIBUTION BOARDS SHOWN IN THE PLANS ARE INDICATIVE ONLY. ELECTRICAL SUB-CONTRACTOR SHALL VERIFY ON SITE AND PROPOSE THEIR ACTUAL LOCATIONS ON THE SHOP DRAWING FOR CLEARANCE.
7. ELECTRICAL DISTRIBUTION BOARD SHALL NOT BE MOUNTED MORE THAN 1800mm ABOVE FFL. (MEASURED FROM FFL TO TOP OF DISTRIBUTION BOARD).
8. ALL ISOLATOR SHALL BE IP-65, IN METAL CABINET AND PAD-LOCKABLE.
9. FINAL LOCATION AND MOUNTING HEIGHT OF WIRING DEVICES SHALL BE COORDINATED WITH ARCHITECT AND ID CONSULTANT.
10. MOTORIZED DAMPER AND MOTORIZED VALVE WHERE REQUIRED BY MECHANICAL SHALL BE PROVIDED WITH RESPECTIVE FUSE CONNECTION UNIT TO BE CONNECTED TO RELATED EQUIPMENT LAMP OR AS OTHERWISE SHOWN ON PLAN.

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE-LAMU

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

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DRAWING TITLE:

ELECTRICAL DRAWINGS
NOTES

Dwg. No. **04- 003E- 002**

Scale: NTS

Drawn by

Chek'd By

Project no.:

Date:

04

24.11.2023

SCHEDULE OF SYMBOLS AND LIGHTING LUMINAIRES



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DRAWING TITLE:

SCHEDULE OF SYMBOLS
AND LIGHTING
LUMINAIRES

Dwg. No.	04- 003E- 003		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:	Date:		
04	24.11.2023		



10A 1 GANG 1 WAY white moulded switch plates



10 2 GANG 1 WAY white moulded switch plates



10A 3 GANG 1 WAY white moulded switch plates



10A 3 GANG 1 WAY white moulded switch plates



10A 1 GANG 2 WAY white moulded switch plates



10A 2 GANG 2 WAY white moulded switch plates



Outlet for 13A twin switched socket outlet complete with concealed conduit, box wiring in 3 x 2.5 mm² SC-PVC-CU cables and 13A twin switched socket outlet plate for raw power



Outlet for 13A twin switched socket outlet complete with concealed conduit, box wiring in 3 x 2.5 mm² SC-PVC-CU cables and 13A twin switched socket outlet plate for clean power



TPN Distribution Board
Complete with 100A TP integral isolator and all accessories including lockable cover with the the required MCB's and Blanking plates



SPN Consumer Unit
complete with 100A SPN integral isolator and all accessories including lockable cover with the the required MCB's and Blanking plates



Outlet for RJ45 face plate, complete with concealed HG PVC conduit, square PVC box, draw wire and blanking plate



Outlet for Television coaxial cable outlet point, complete with concealed HG PVC conduit, square PVC box, draw wire and TV outlet point



Outlet for cooker control unit comprising wiring in 3x6.0mm2 SC-PVC CU cables, twin box Dia. 25mm socket with neon lamp



Outlet for 15A round pin socket outlet complete with concealed conduit, box wiring in 3 x 4 mm² SC-PVC-CU cables and all accessories including 15A round pin socket outlet plate



Extra Low Voltage manhole
HG PVC conduit link, and all accessories including 45A DP cooker control unit with neon lamp, and 13A integral



Power manhole



Outlet point for instant water heaters, AC, Fans and under- sink water heater comprising 20mm diameter conduit, wiring in 3 x 4.0 mm² SC-PVC-CU cables and all accessories including 20A DP switch with neon light



400mm Wide Cable Ladder



400mm Wide Cable Tray for Power



400mm Wide Cable Tray for Data



Addressable Heat Detector



Addressable Fire Alarm Control Panel



Addressable Smoke Detector



Addressable Push Button, Electric Sounder & Beacon



1200mm 12W LED Mirror Front Light, surface mounted, 4000K Bathroom Mirror Light



High Quality Ultra Thin 12W Led Panel 300X300Mm Square Panel Light Indoor Lighting For Bathroom Type 2



Type 'N' 12W LED 2D fixture for installation in stairwells and corridors



Type Maintained LED fixture for Emergency installation with 3 - hour autonomy



Type '4C' 34W 1200mm High performance LED IP65, dust and moisture resistant luminaire



Type '4' 40W 1200mmX300mm High performance dust and moisture resistant luminaire



Type 'C' 12W super efficient LED downlighter



Type 'M' 50W Solar Floodlight for security lighting, mounted on building's walls



600x600mm, 36W, super efficient Surface LED modular luminaries with curved diffuser



Type 'X' Bulkhead wall mounted light for the lift shaft



8W maintained LED Exit Emergency Light. Minimum 3-hour autonomy.



PIR Motion Sensor



25mm x 3mm tinned annealed copper tape for both roof & down conductors



15mm multiple point copper air terminal complete with base



Type 'F2' 1500W High Volume Low Speed (HVLS) 5 blade ceiling fan for auditorium.
Blade size: 12 feet; Fan Speed: 50RPM; Noise Level: 50DB



Type 'F1' 49W 3 Blade Basic Ceiling Sweep Fan .
Sweep: 1200mm; Fan Speed: 350RPM



IP 67- Water & Dust Resistant, 4MP, Excellent low- light performance, $\frac{24}{7}$ colourful imaging, Efficient Compression Technology Bullet CCTV Camera



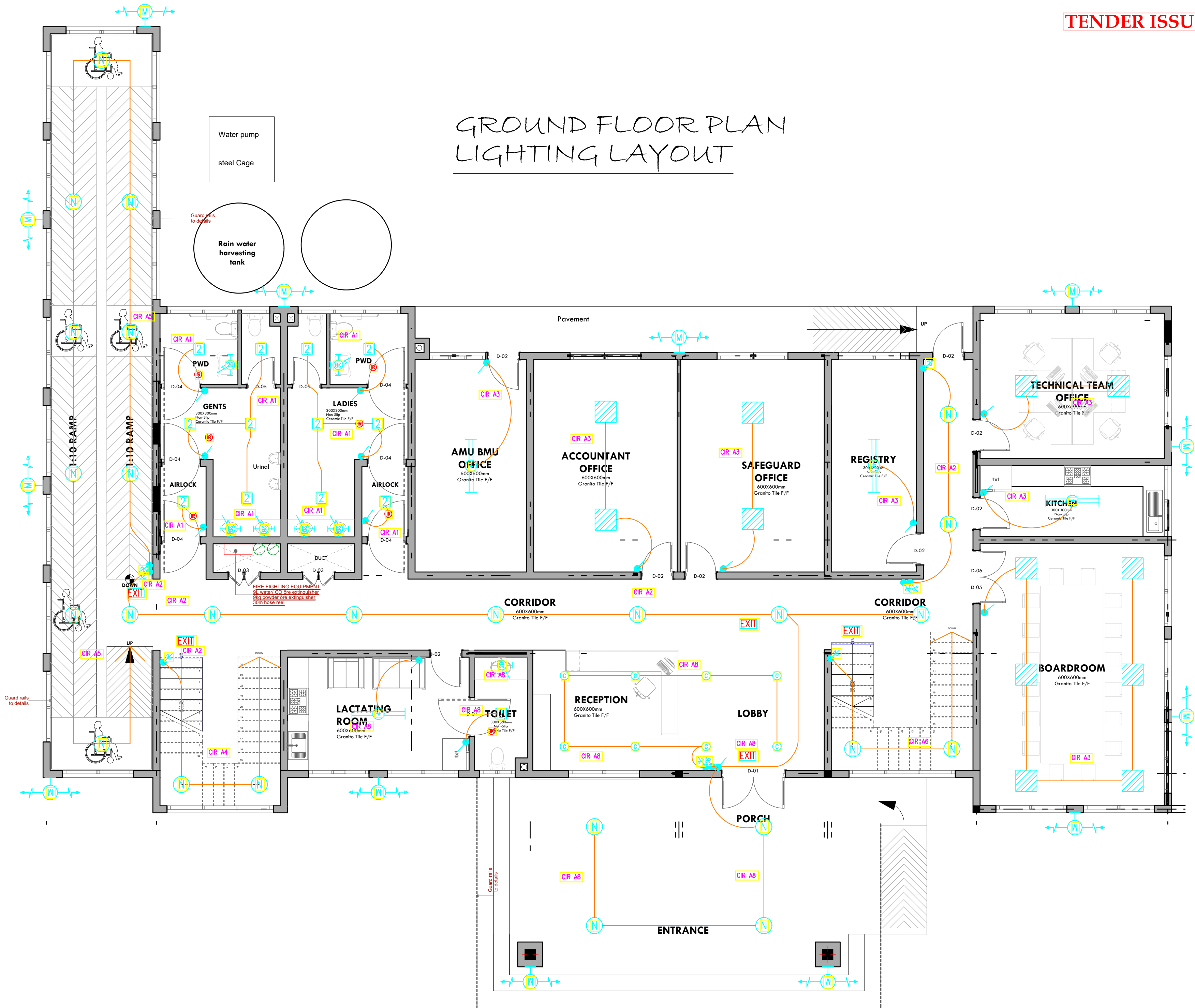
IP 67- Water & Dust Resistant, 4MP, Excellent low- light performance, $\frac{24}{7}$ colourful imaging, Efficient Compression Technology DOME CCTV Camera



Type '4U' 34W 1200mm High performance LED UV IP65, dust and moisture resistant luminaire

TENDER ISSUE

GROUND FLOOR PLAN LIGHTING LAYOUT



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DRAWING TITLE: GROUND FLOOR LIGHTING LAYOUT

Dwg. No. **04- 003E- 004**

Scale: NTS

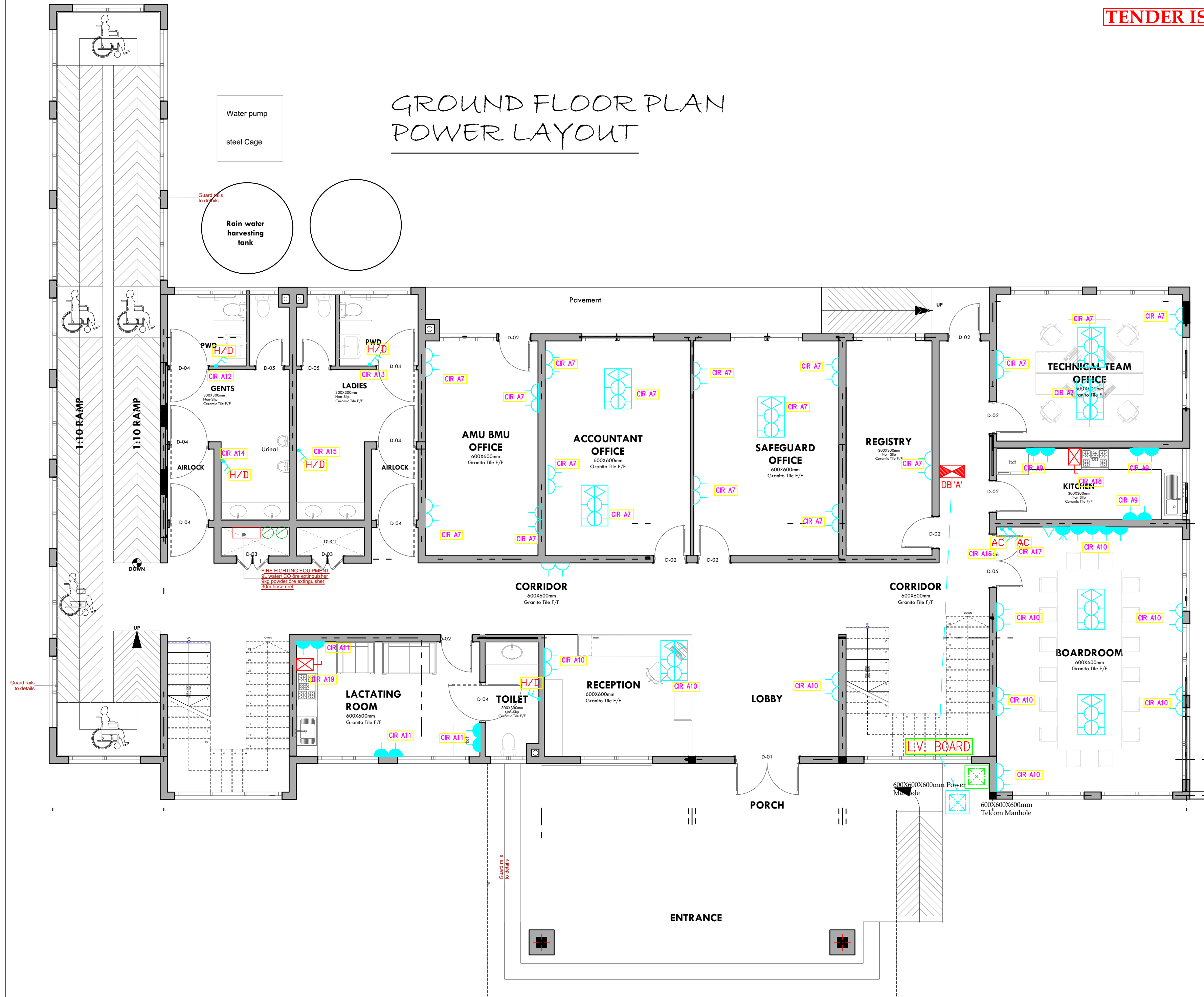
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TENDER ISSUE

GROUND FLOOR PLAN
POWER LAYOUT



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DRAWING TITLE:
GROUND FLOOR POWER
LAYOUT

Dwg. No. **04- 003E- 005**

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TENDER ISSUE

GROUND FLOOR PLAN
FIRE ALARM LAYOUT



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GROUND FLOOR FIRE
ALARM LAYOUT

Dwg. No. **04- 003E- 006**

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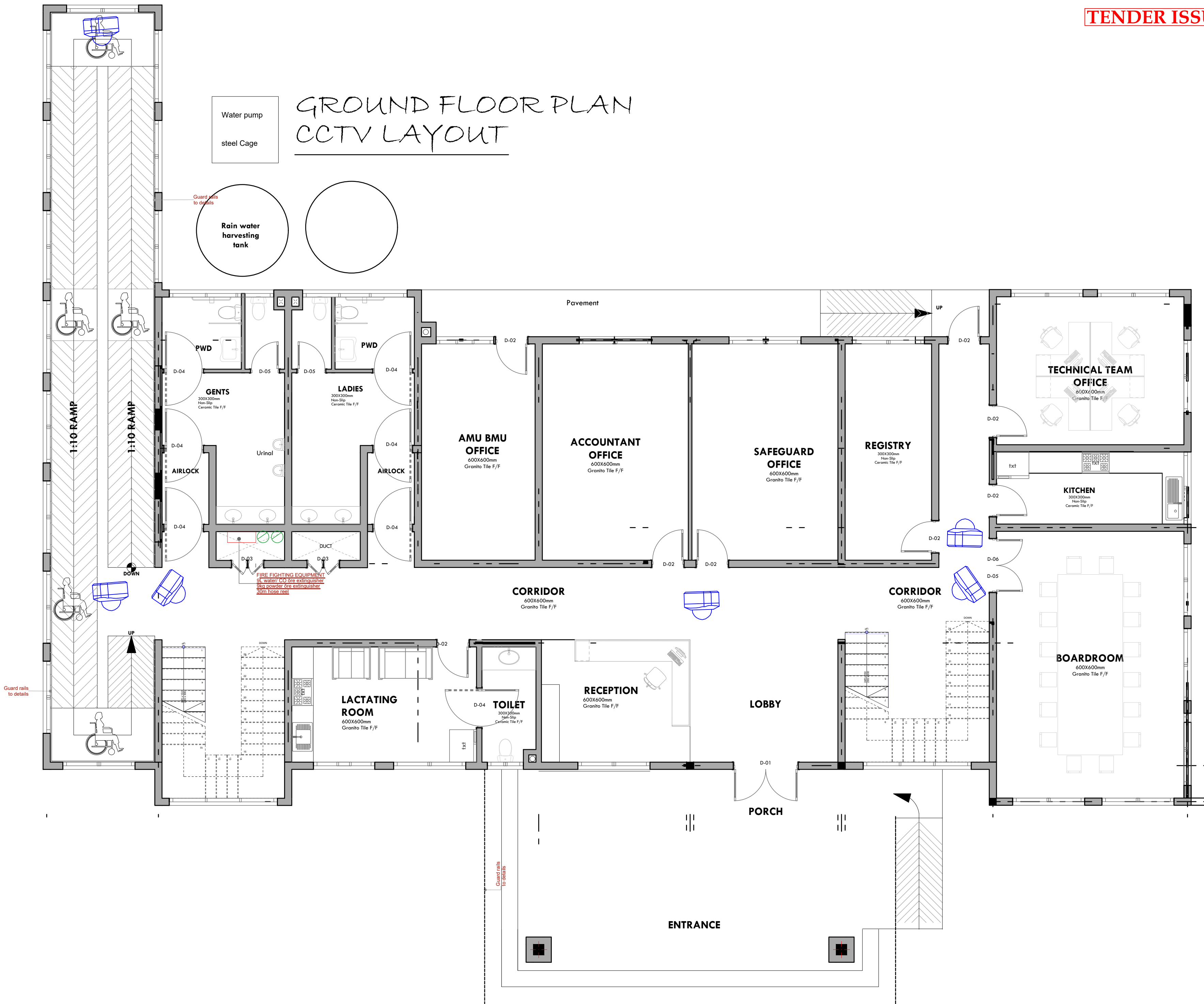
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TENDER ISSUE

GROUND FLOOR PLAN
CCTV LAYOUT



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DRAWING TITLE:

GROUND FLOOR CCTV
LAYOUT

Dwg. No. **04- 003E- 007**

Scale: NTS

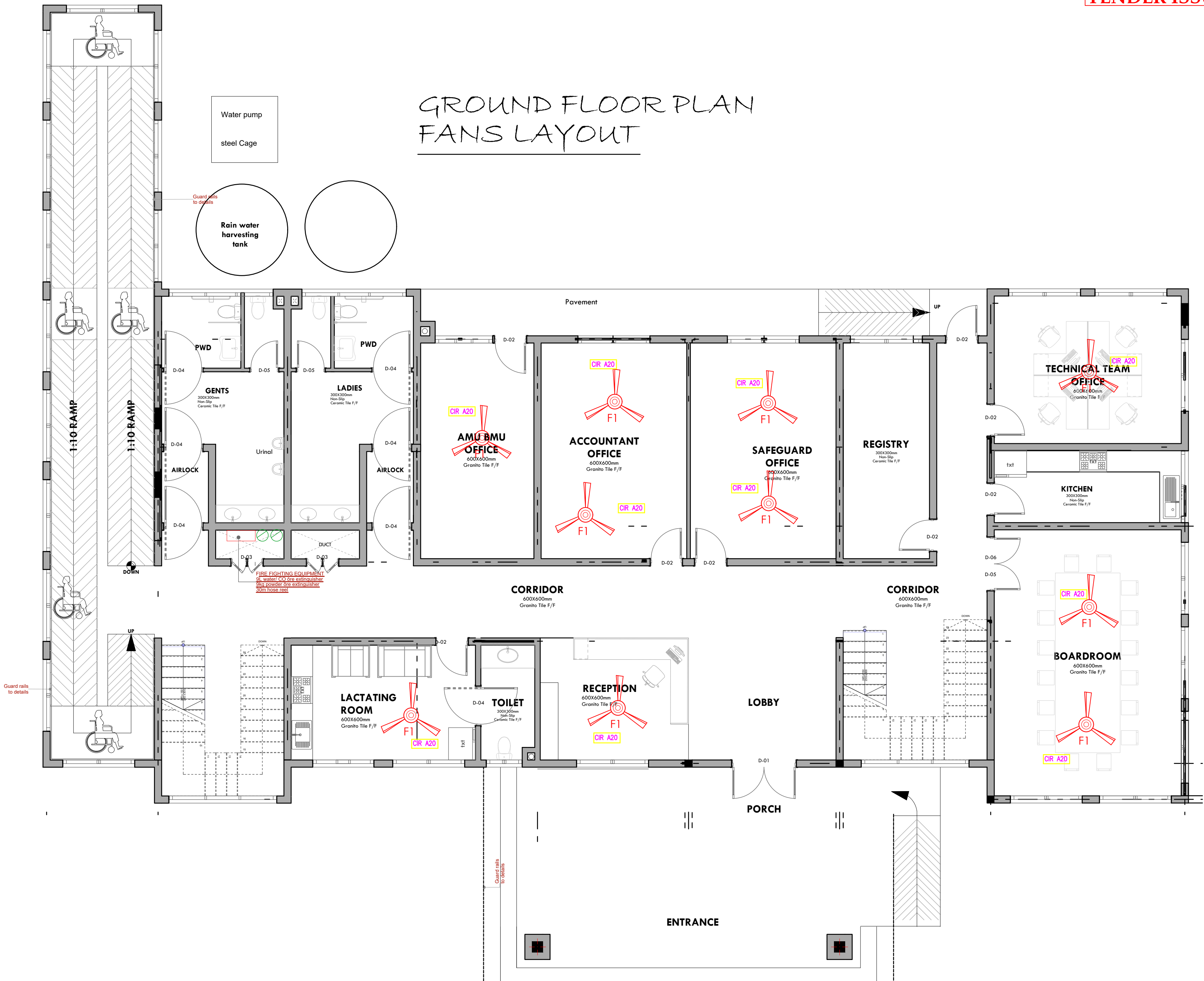
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GROUND FLOOR PLAN
FANS LAYOUT



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- LAMU

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign: _____

DRAWING TITLE:
GROUND FLOOR FANS
LAYOUT

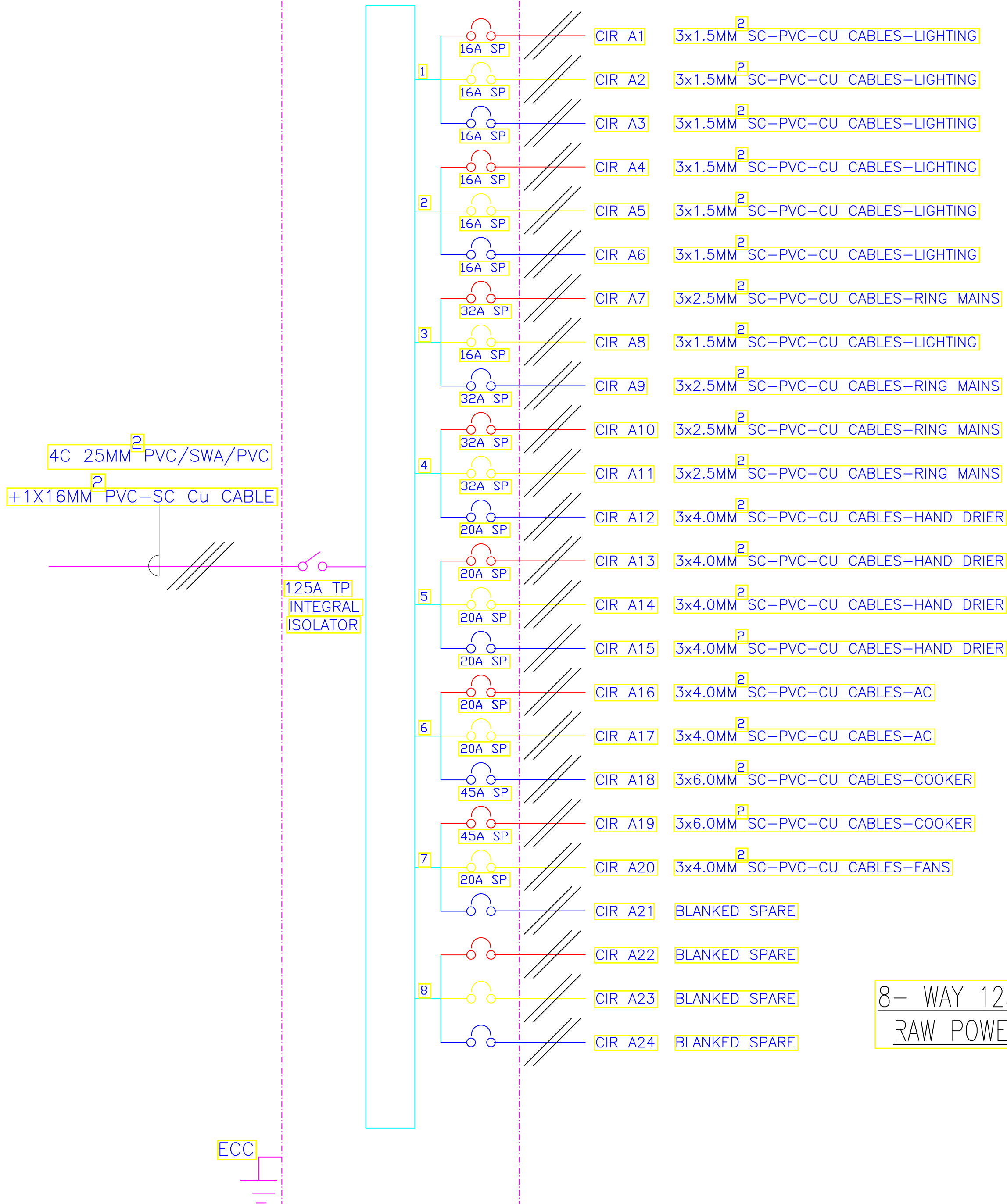
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REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- LAMU

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

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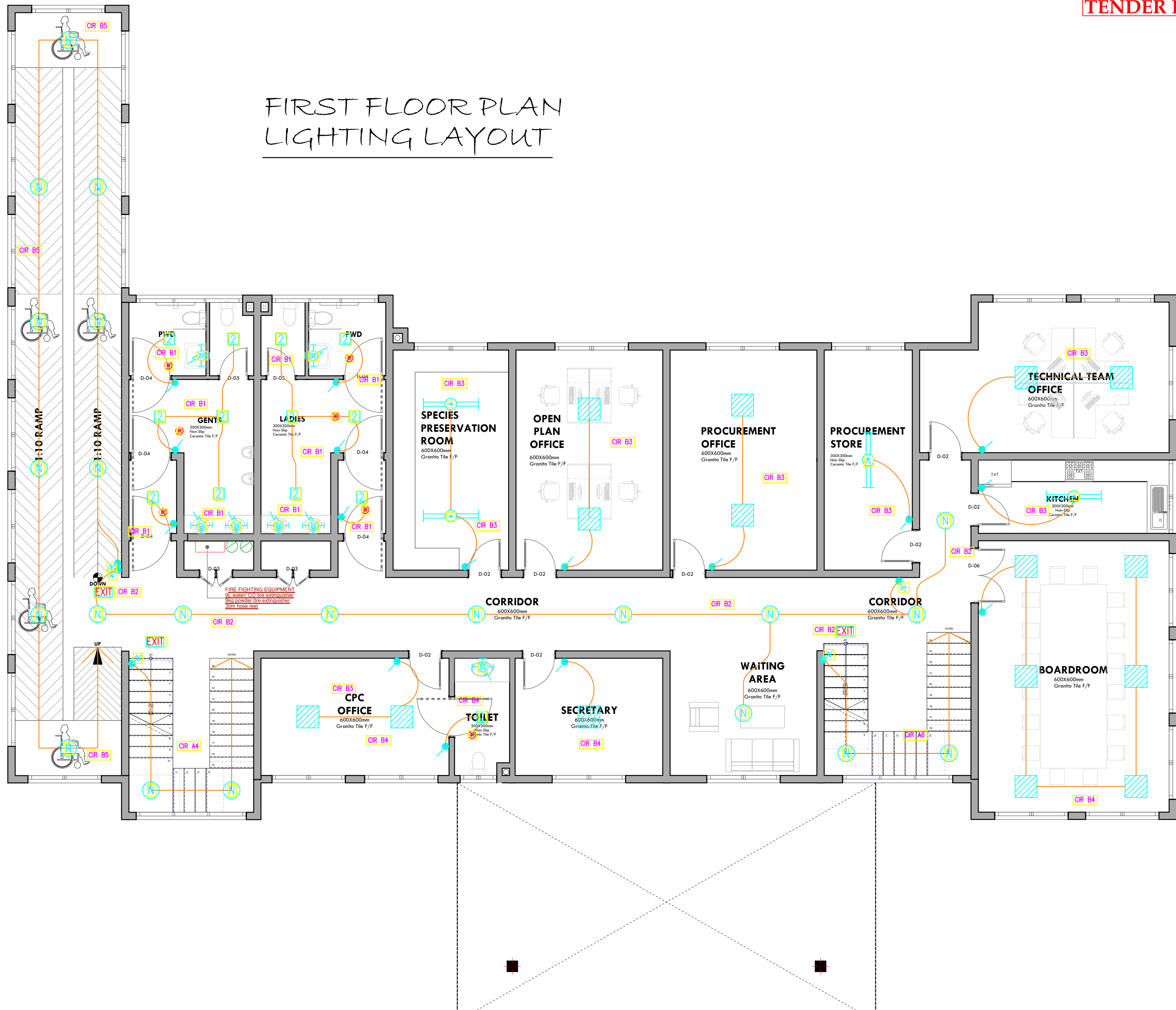
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**GROUND FLOOR
SCHEMATIC**

Dwg. No.	04- 003E- 009
Scale:	NTS
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TENDER ISSUE

FIRST FLOOR PLAN LIGHTING LAYOUT



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ECONOMY

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DRAWING TITLE:

FIRST FLOOR LIGHTING
LAYOUT

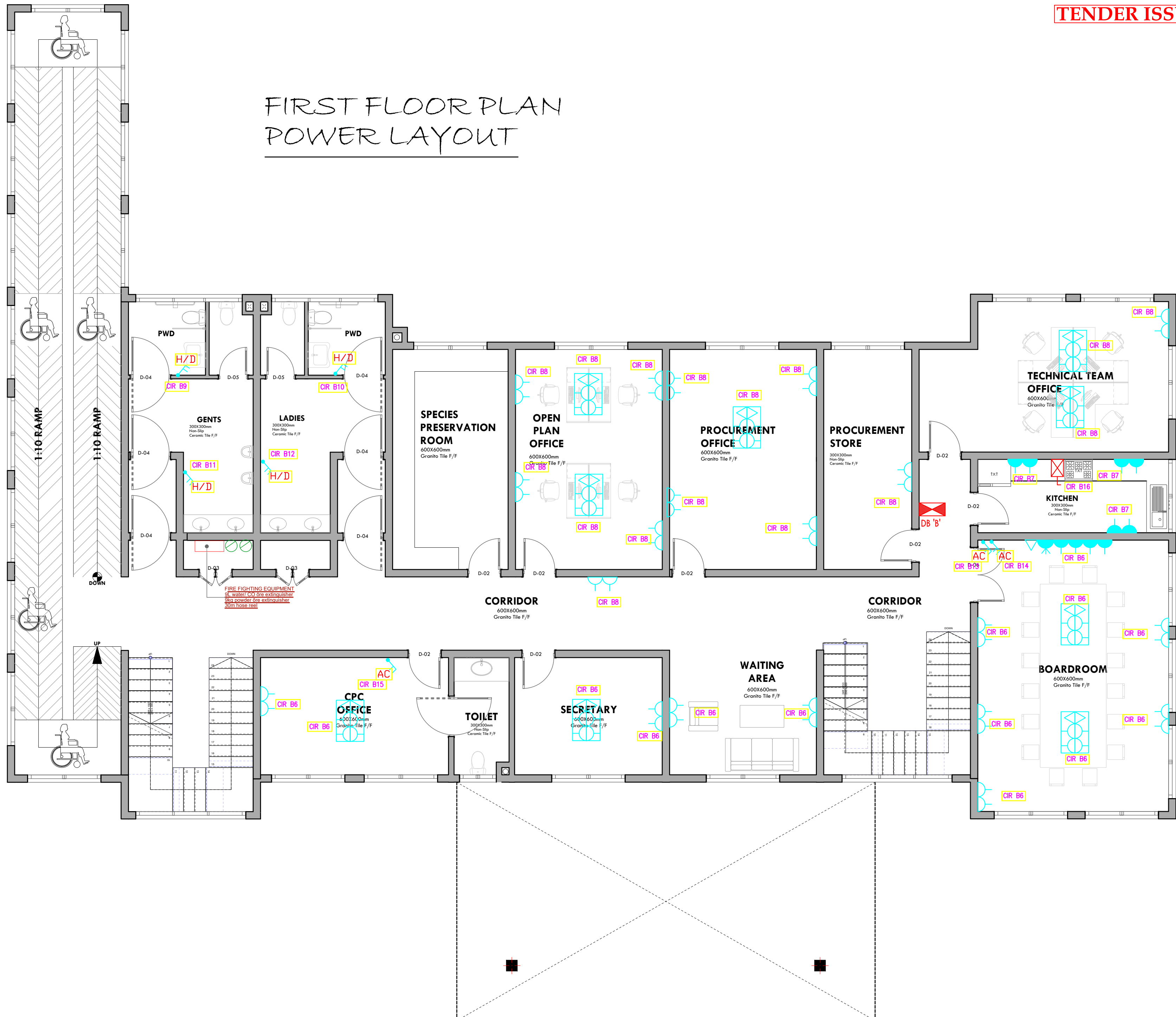
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FIRST FLOOR PLAN
POWER LAYOUT

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FIRST FLOOR POWER
LAYOUT

Dwg. No. 04- 003E- 011

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FIRST FLOOR PLAN
FIRE ALARM LAYOUT



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DRAWING TITLE:

FIRST FLOOR FIRE ALARM
LAYOUT

Dwg. No. **04- 003E- 012**

Scale: NTS

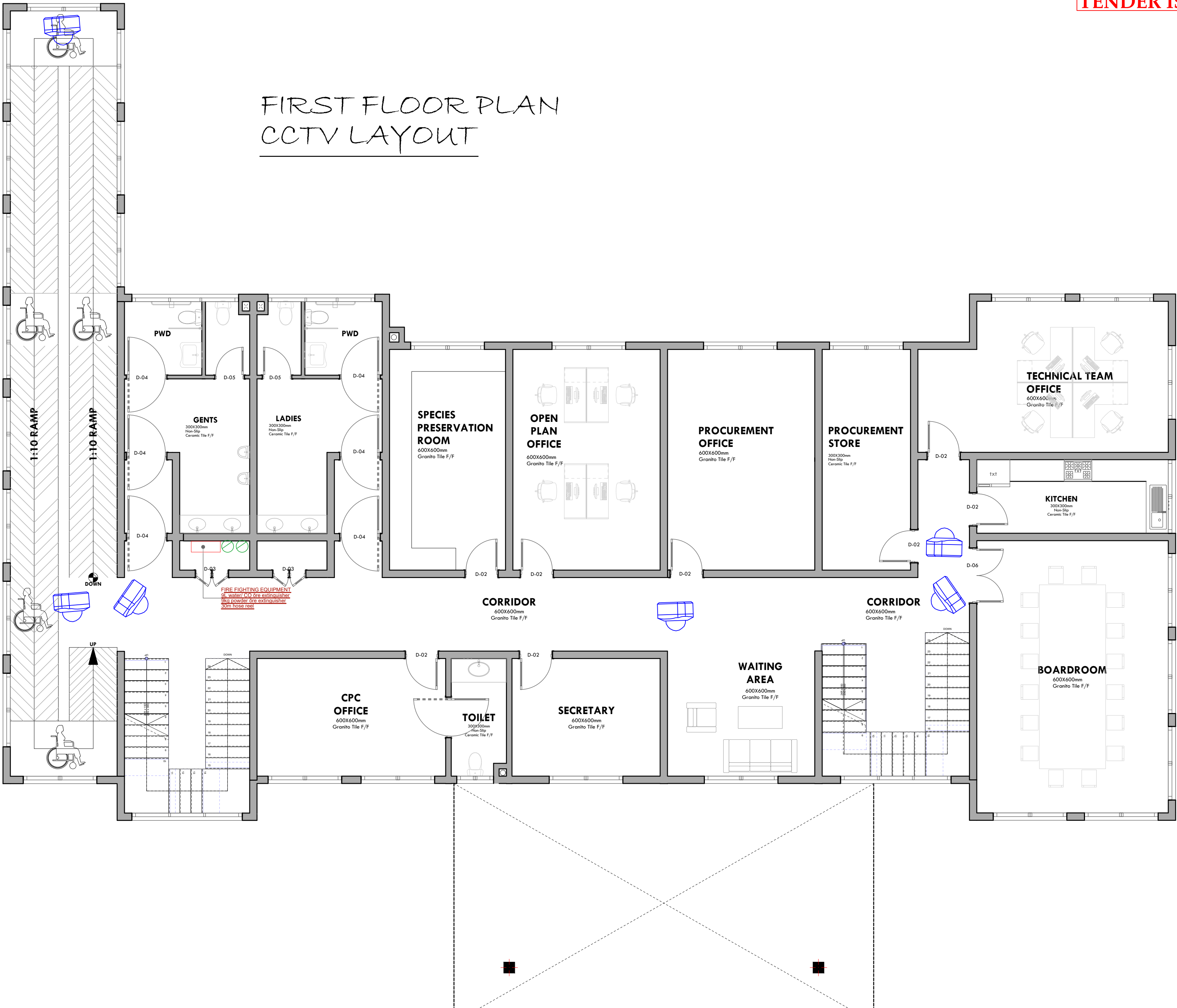
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FIRST FLOOR PLAN
CCTV LAYOUT



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DRAWING TITLE:

FIRST FLOOR CCTV LAYOUT

Dwg. No. 04- 003E- 013

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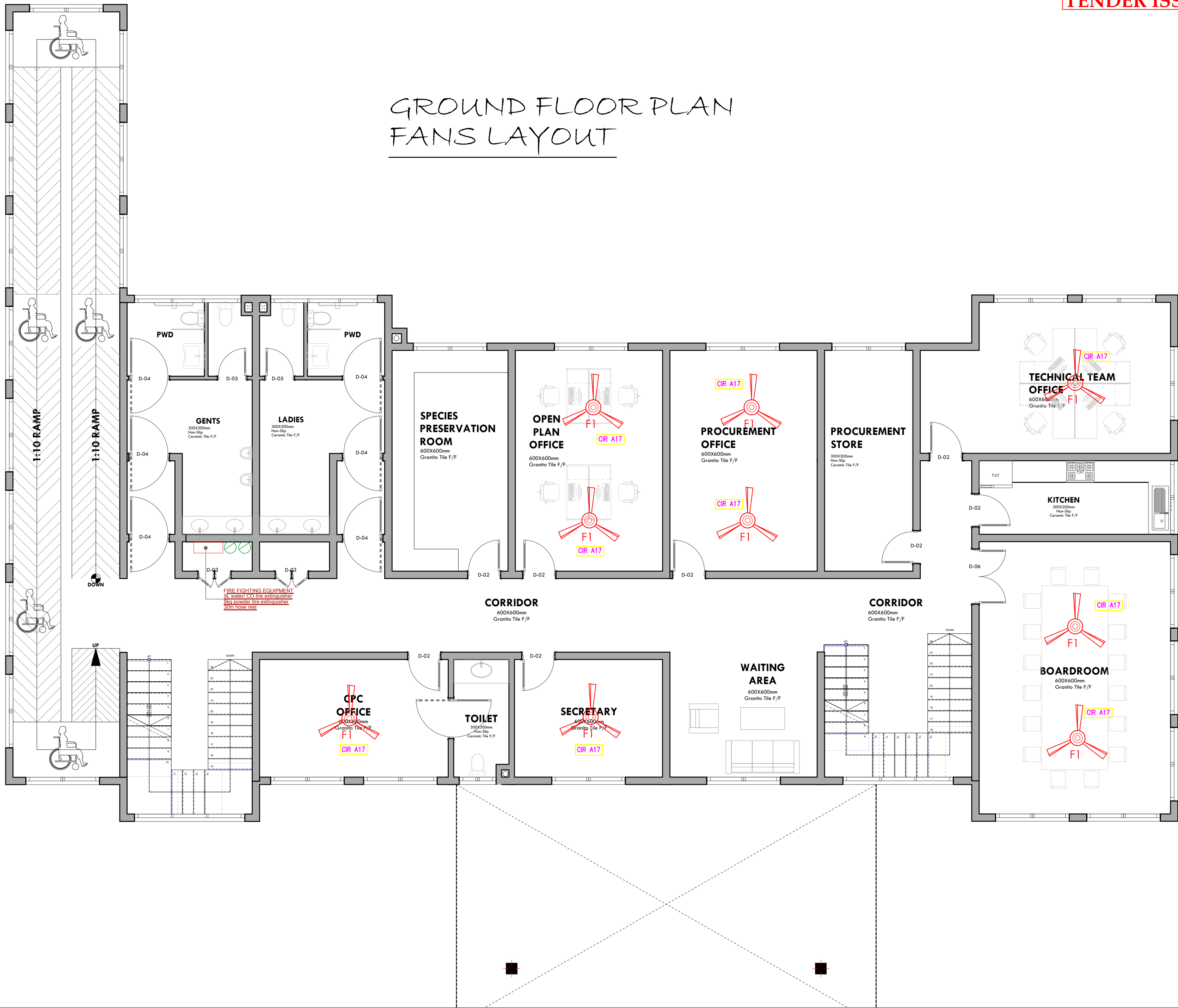
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GROUND FLOOR PLAN
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CLIENT:

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DRAWING TITLE:

FIRST FLOOR FANS LAYOUT

Dwg. No. **04- 003E- 014**

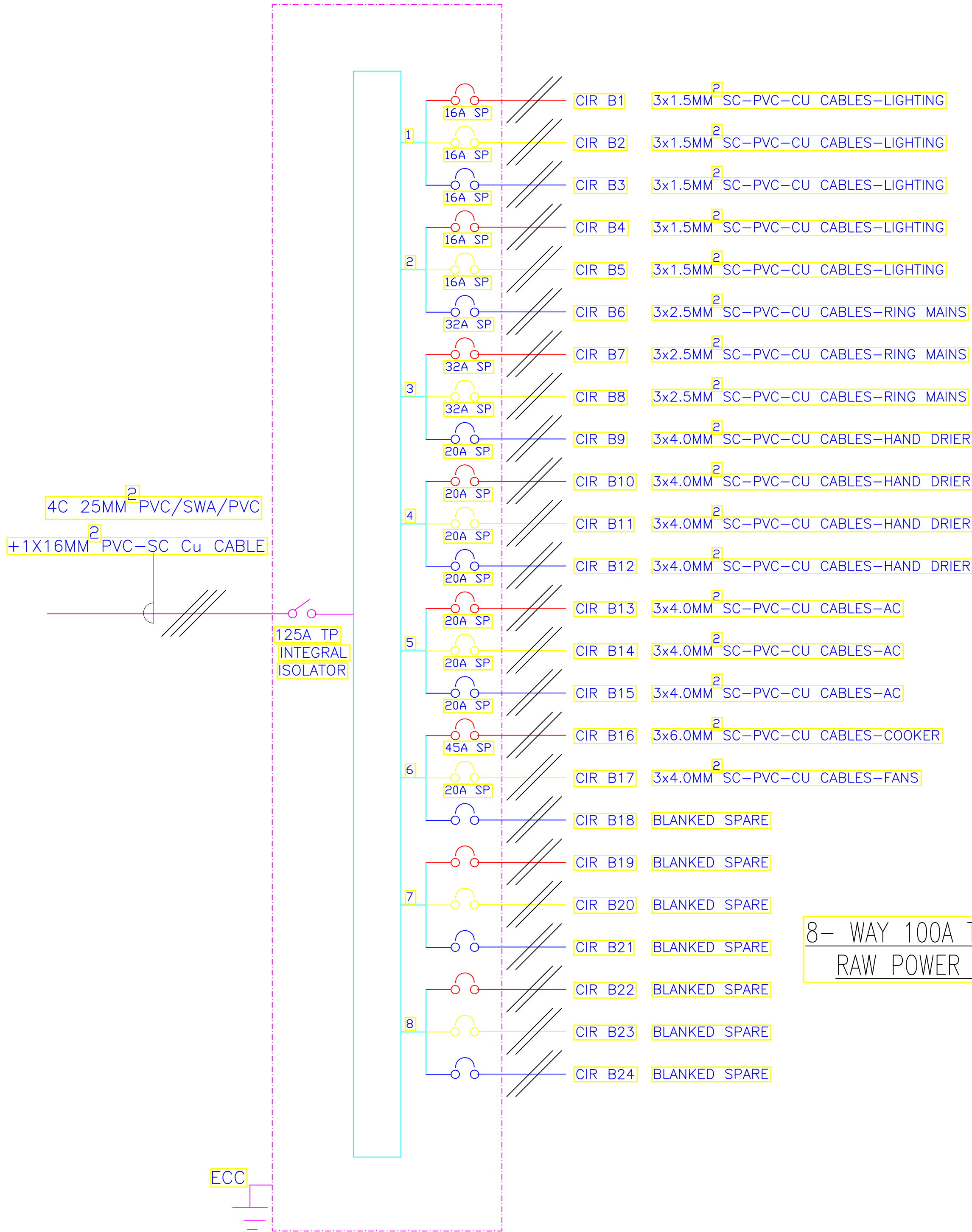
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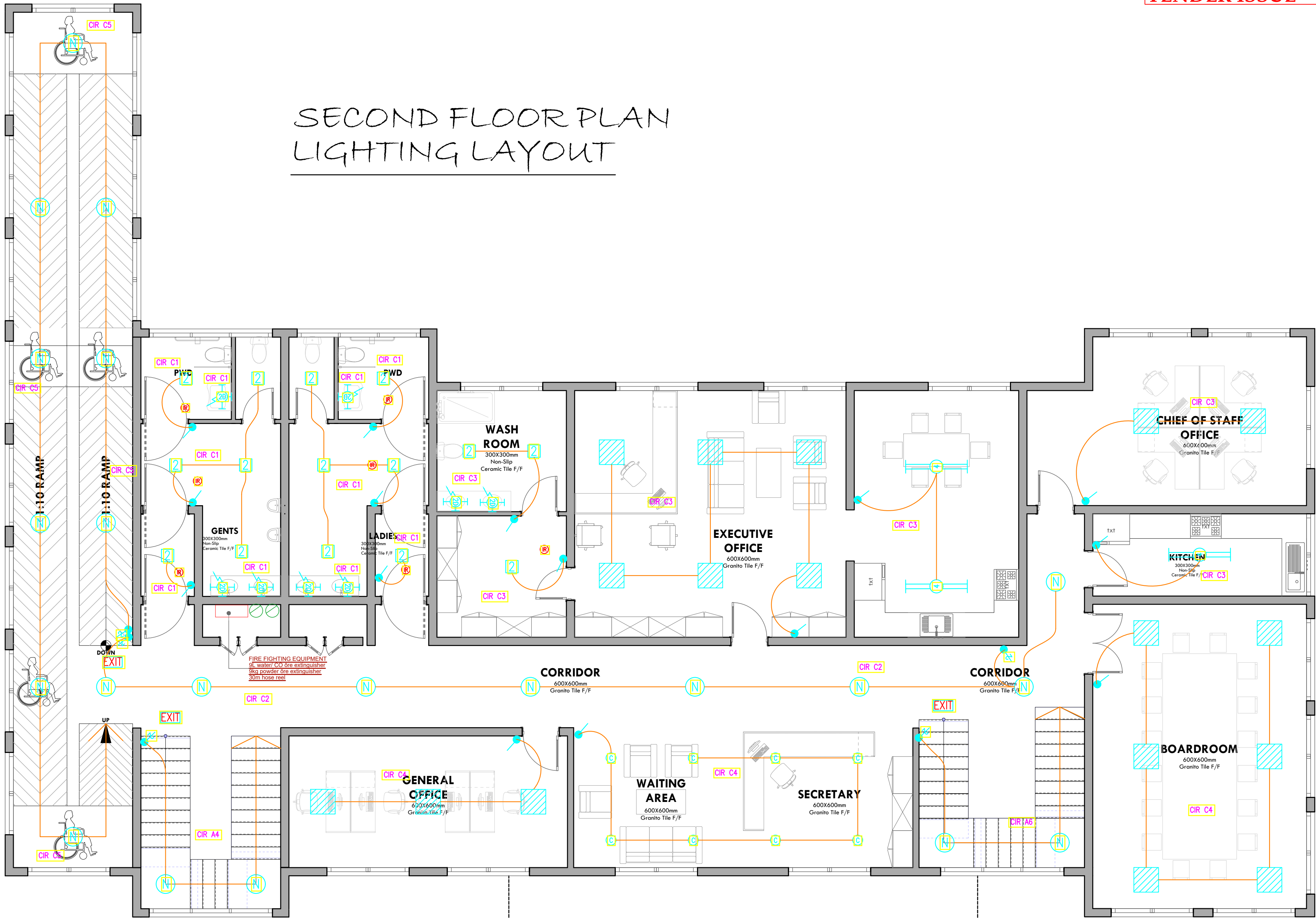
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Project no.:	Date:
04	20.01.2024

SECOND FLOOR PLAN
LIGHTING LAYOUT



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DRAWING TITLE:

SECOND FLOOR LIGHTING
LAYOUT

Dwg. No. **04- 003E- 016**

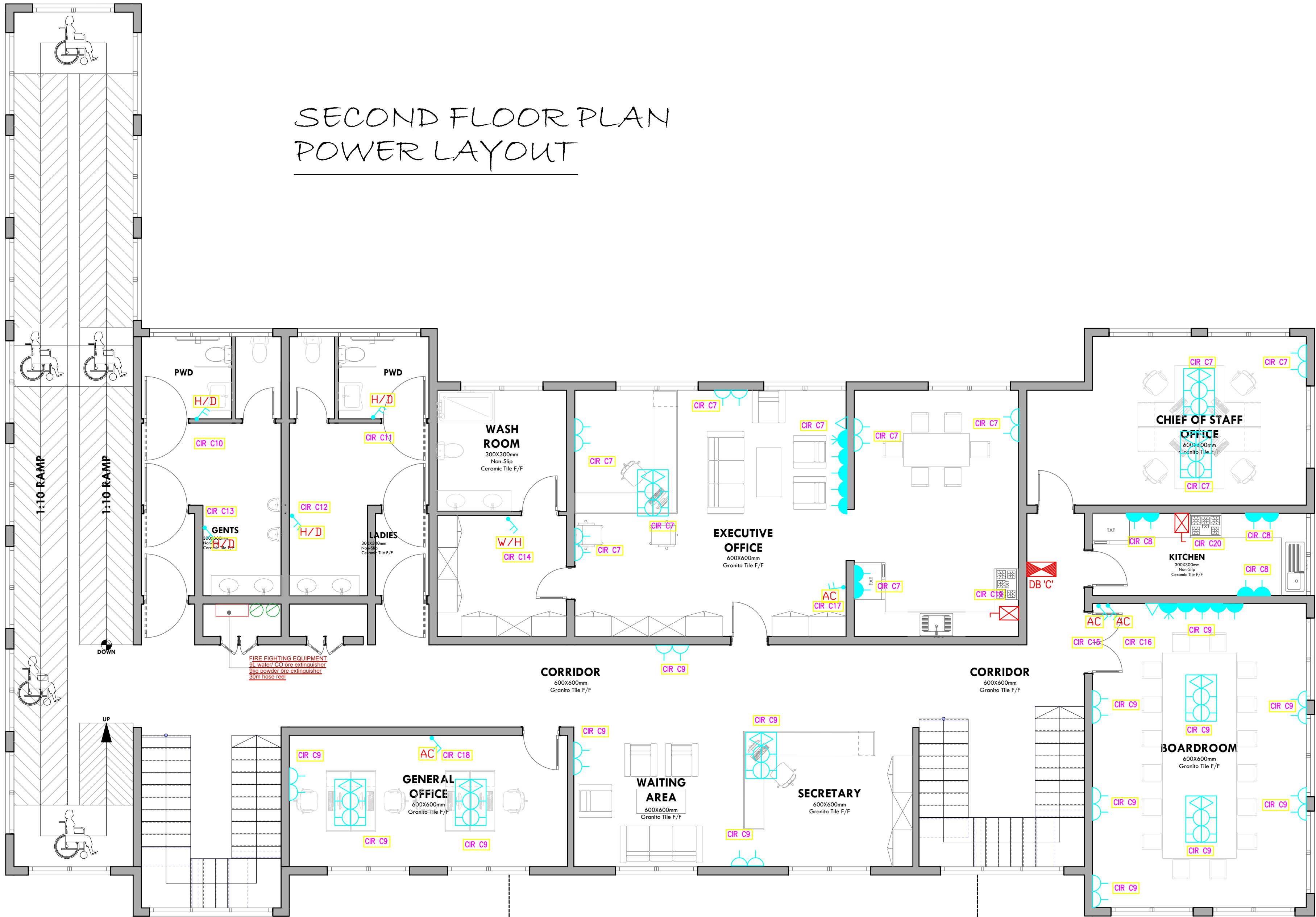
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POWER LAYOUT



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CLIENT:

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DRAWING TITLE:
SECOND FLOOR POWER
LAYOUT

Dwg. No. **04- 003E- 017**

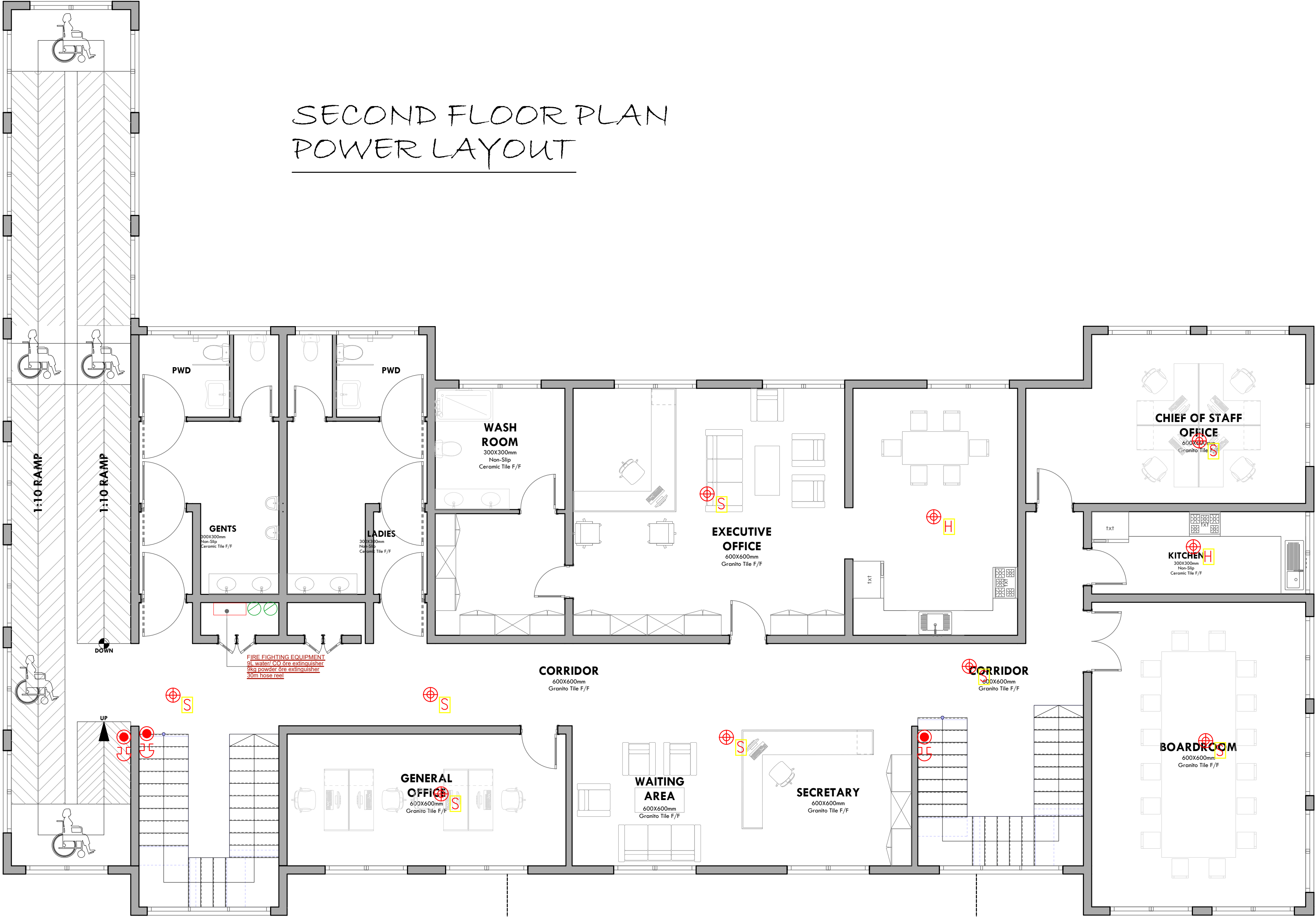
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SECOND FLOOR FIRE
ALARM LAYOUT

Dwg. No. 04- 003E- 018

Scale: NTS

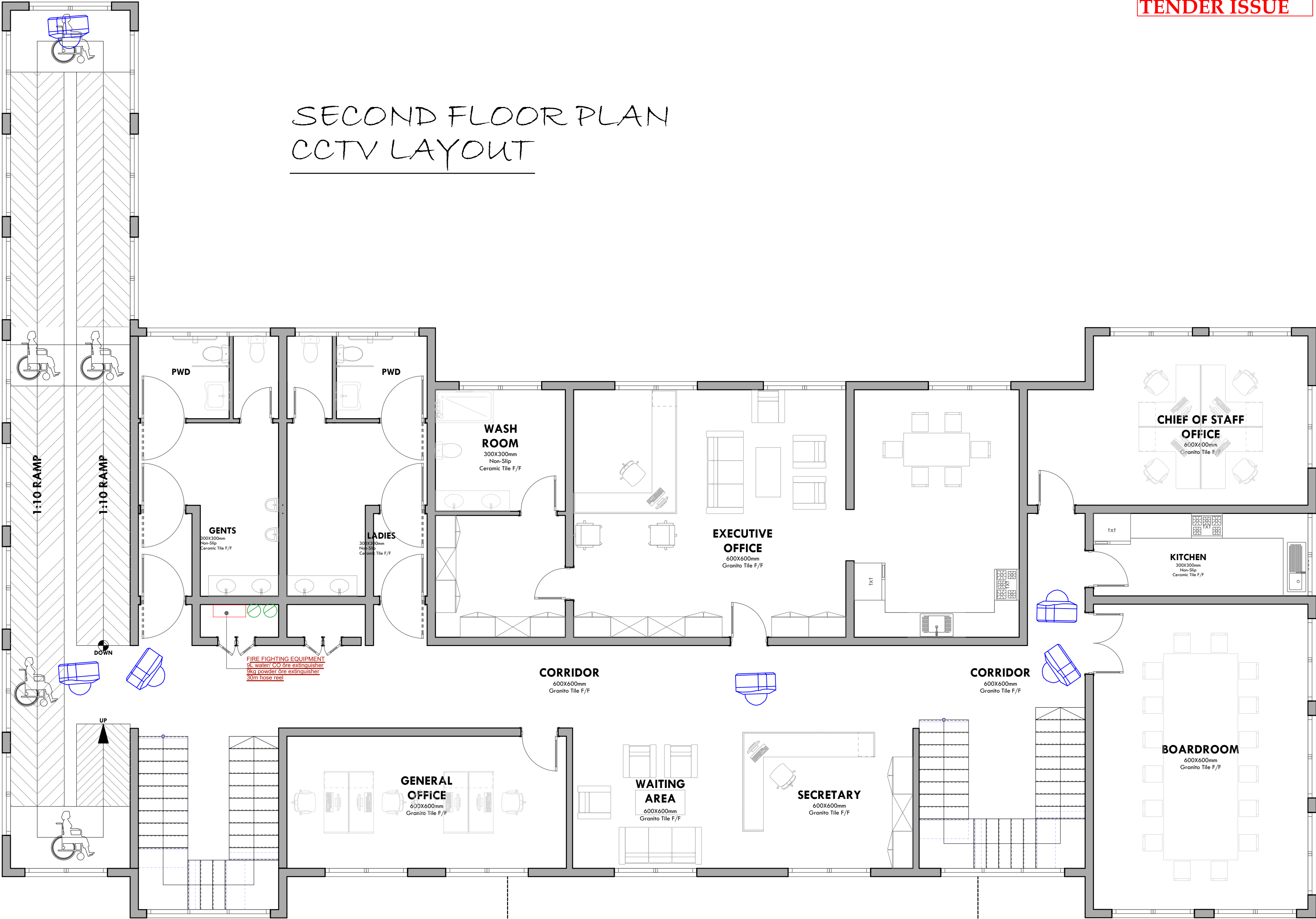
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SECOND FLOOR PLAN
CCTV LAYOUT



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DRAWING TITLE:
SECOND FLOOR CCTV
LAYOUT

Dwg. No. 04- 003E- 019

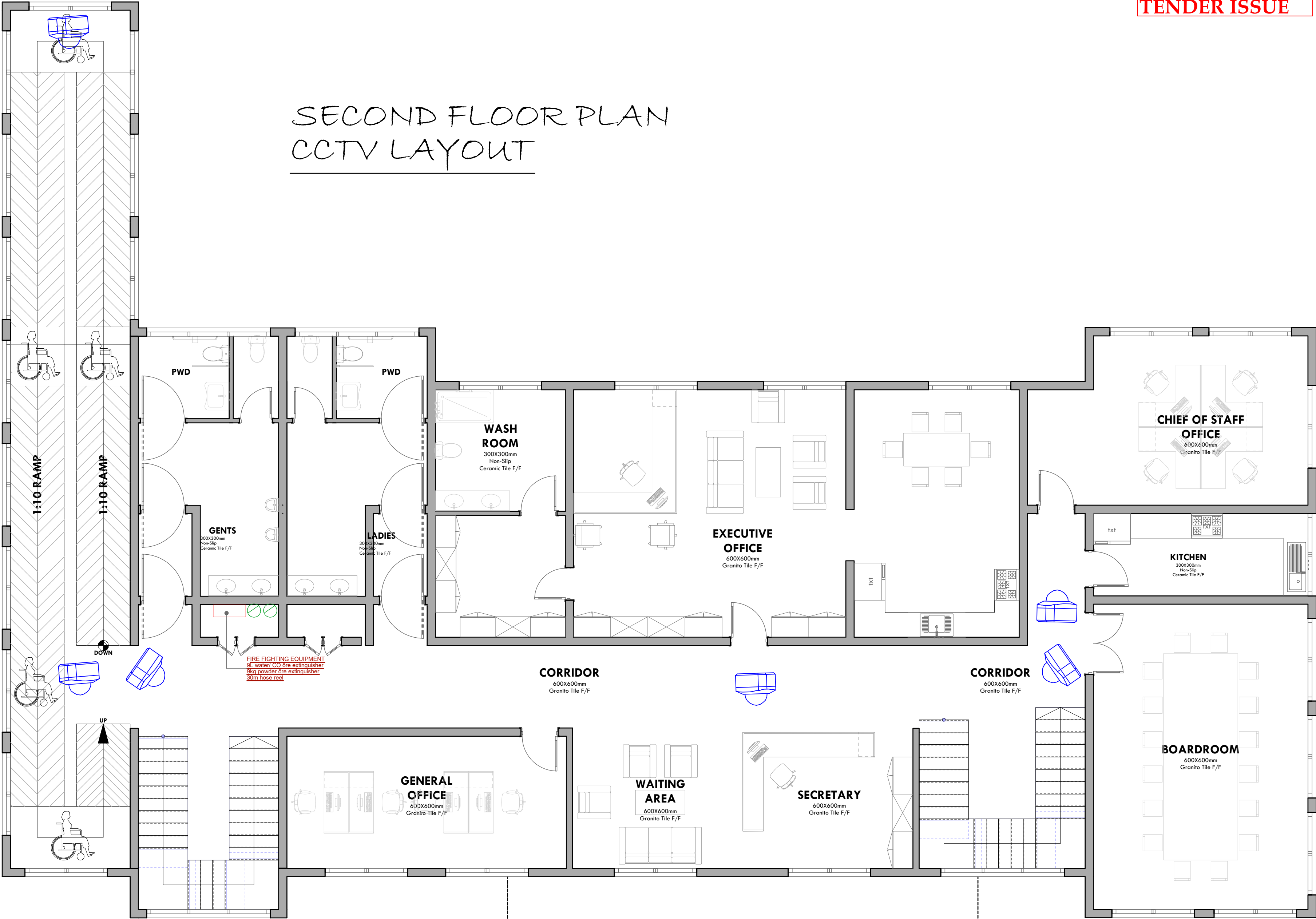
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Project no.: Date:

04 20.01.2024

SECOND FLOOR PLAN
CCTV LAYOUT



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- LAMU

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
SECOND FLOOR FANS
LAYOUT

Dwg. No. 04- 003E- 020

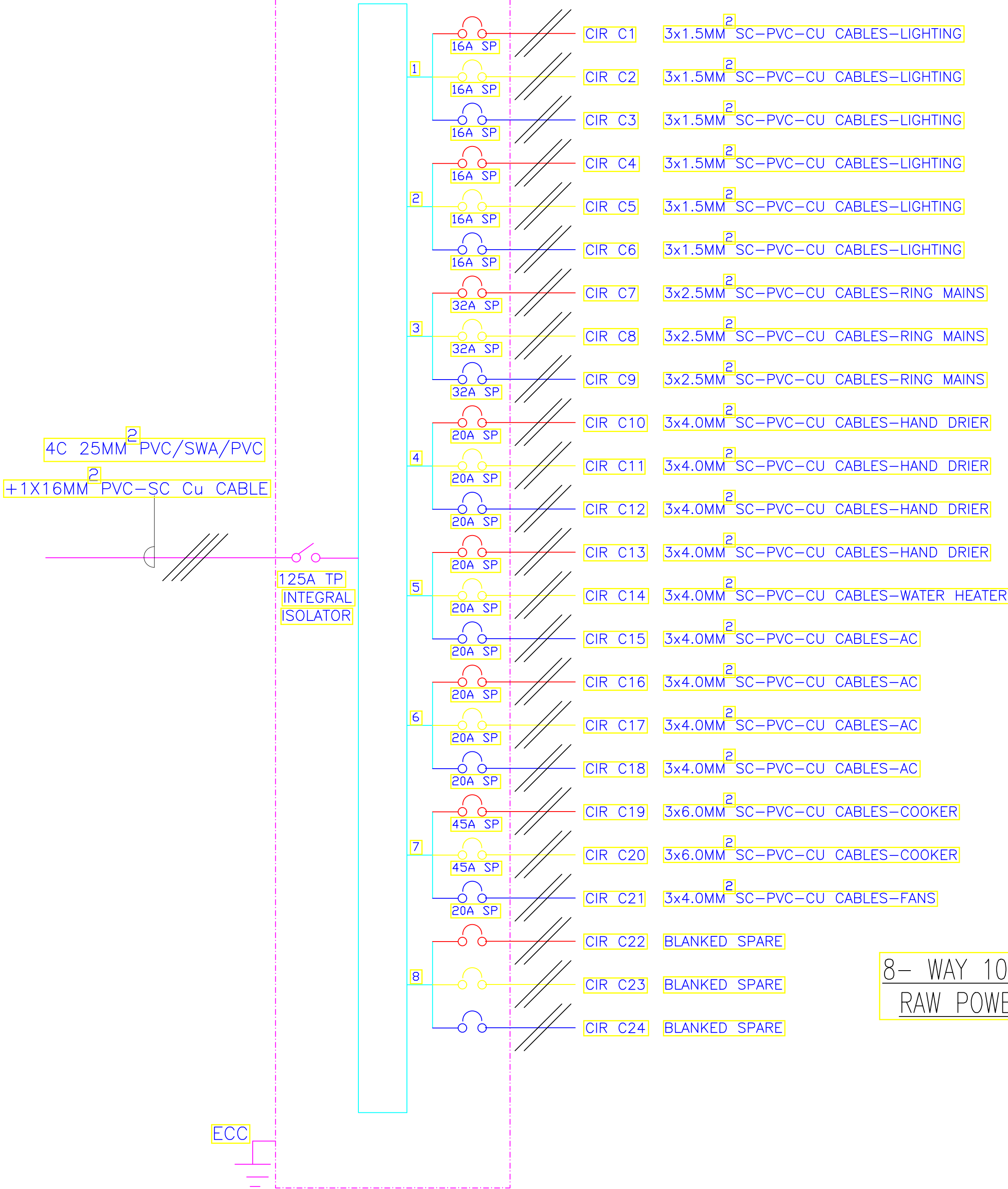
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF
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INFRASTRUCTURE- LAMU

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

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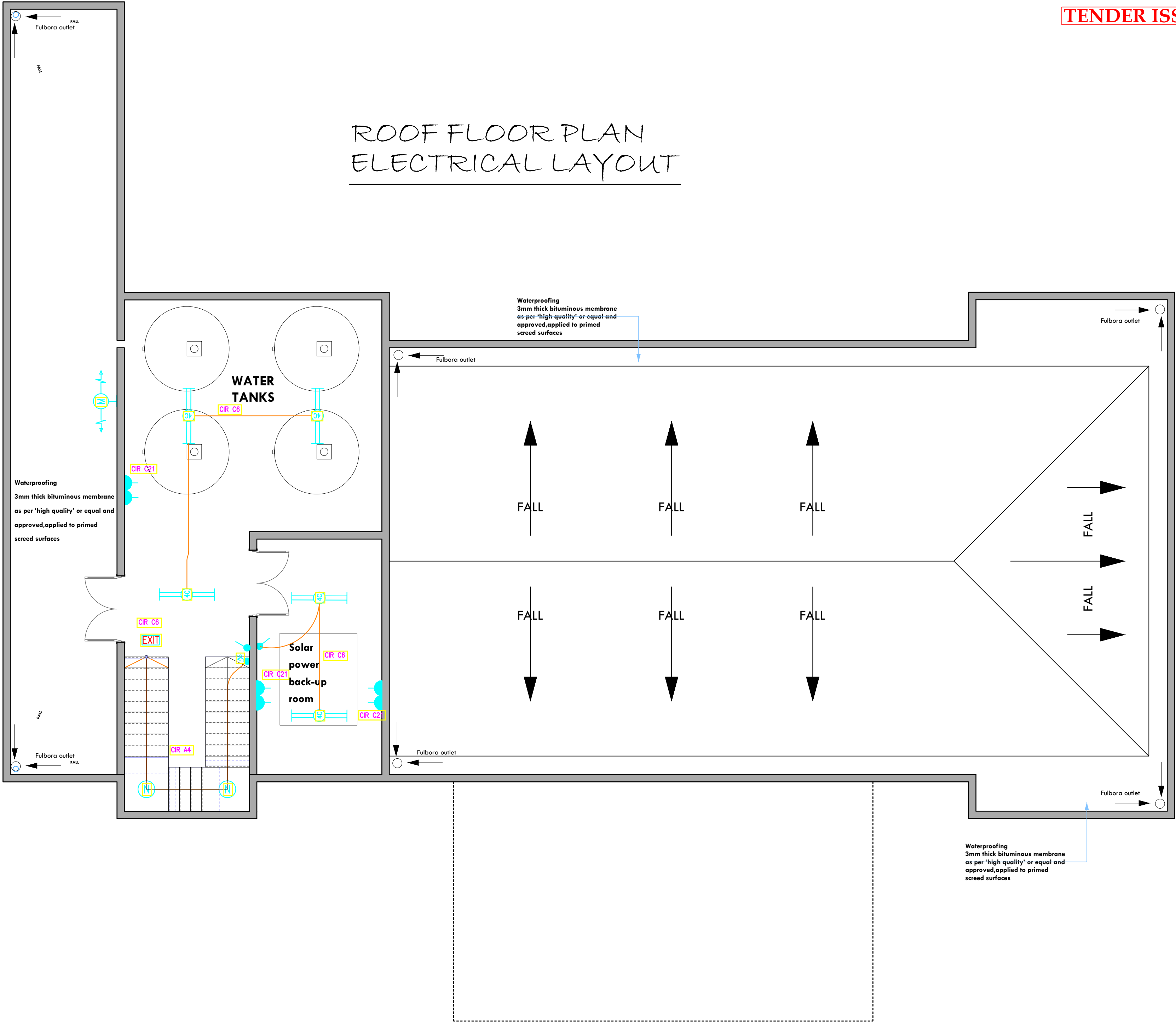
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**SECOND FLOOR
SCHEMATIC**

Dwg. No.	04- 003E- 021
Scale:	NTS
Drawn by	Chek'd By
Project no.:	Date:
04	20.01.2024

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ROOF FLOOR PLAN
ELECTRICAL LAYOUT



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

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STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

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Sign:

DRAWING TITLE:

ROOF ELECTRICAL LAYOUT

Dwg. No. 04- 003E- 022

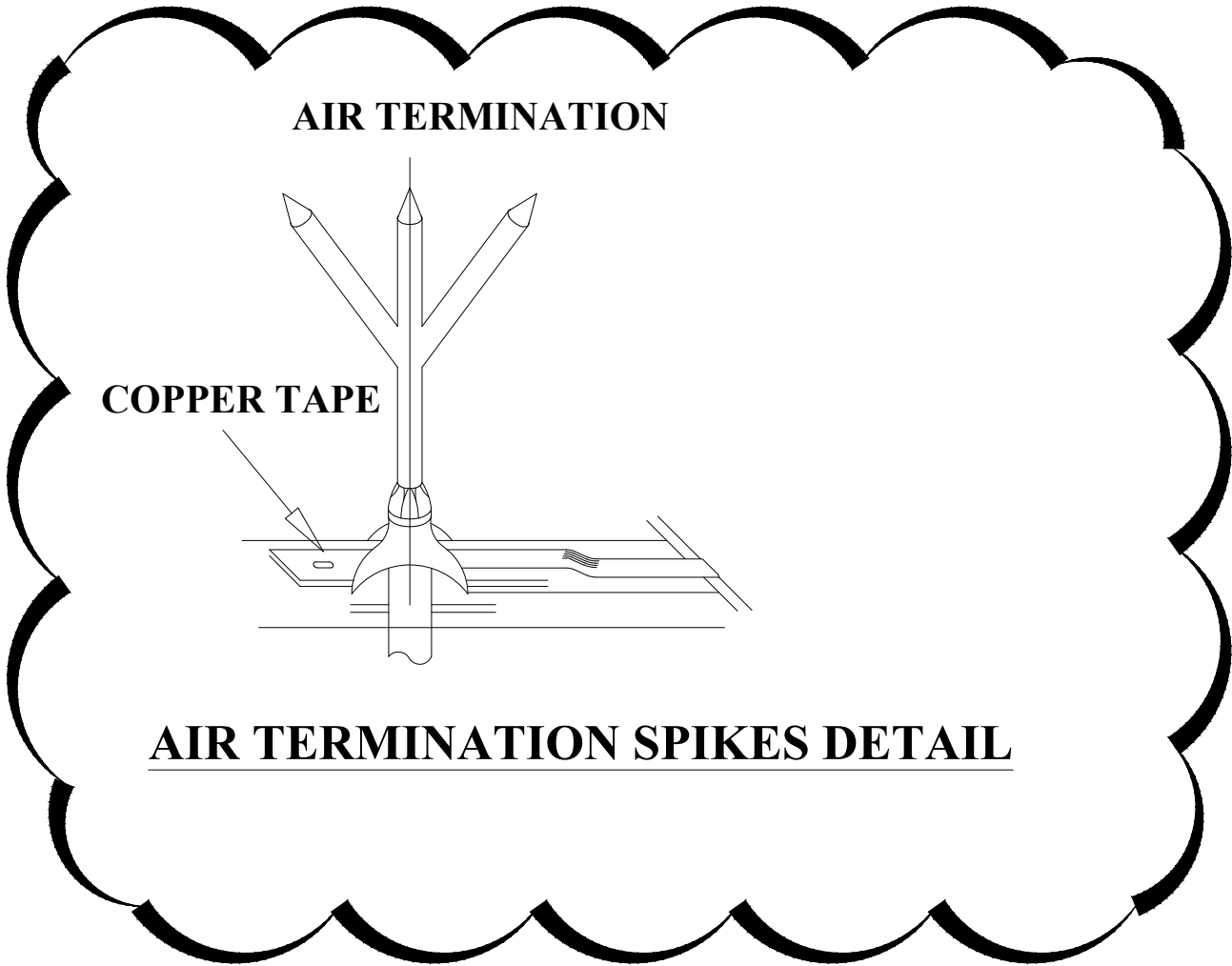
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Drawn by Chek'd By

Project no.: Date:

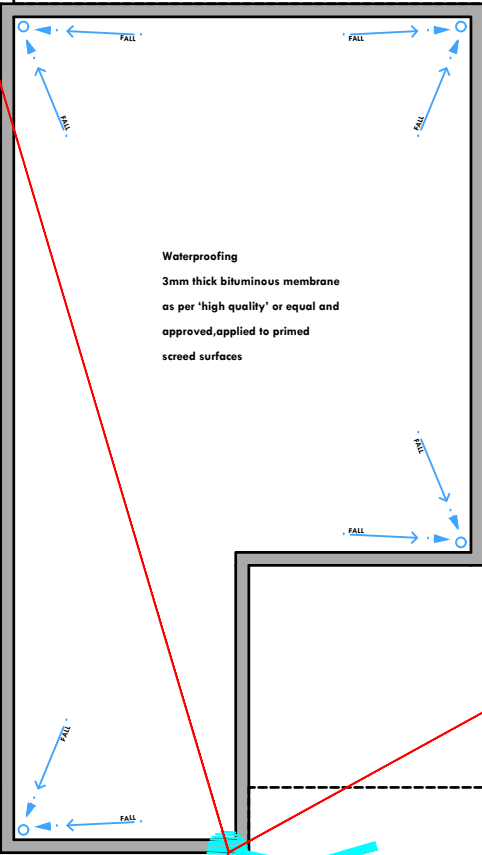
04 20.01.2024

TENDER ISSUE



EARTH MAT ON GROUND LEVEL

EARTH MAT ON GROUND LEVEL



EARTH MAT ON GROUND LEVEL

ROOF

LIGHTNING ARRESTORS

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REV. No.	Details of Revision

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ECONOMY

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DRAWING TITLE:

ROOF LIGHTNING
ARRESTORS LAYOUT

Dwg. No.	04- 003E- 023
Scale:	NTS
Drawn by	Chek'd By
Project no.:	Date:
04	20.01.2024

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REV. No.	Details of Revision

PROJECT TITLE:

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AQUACULTURE & THE BLUE
ECONOMY

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Sign:

DRAWING TITLE:

**SITE PLAN ELECTRICAL
LAYOUT**

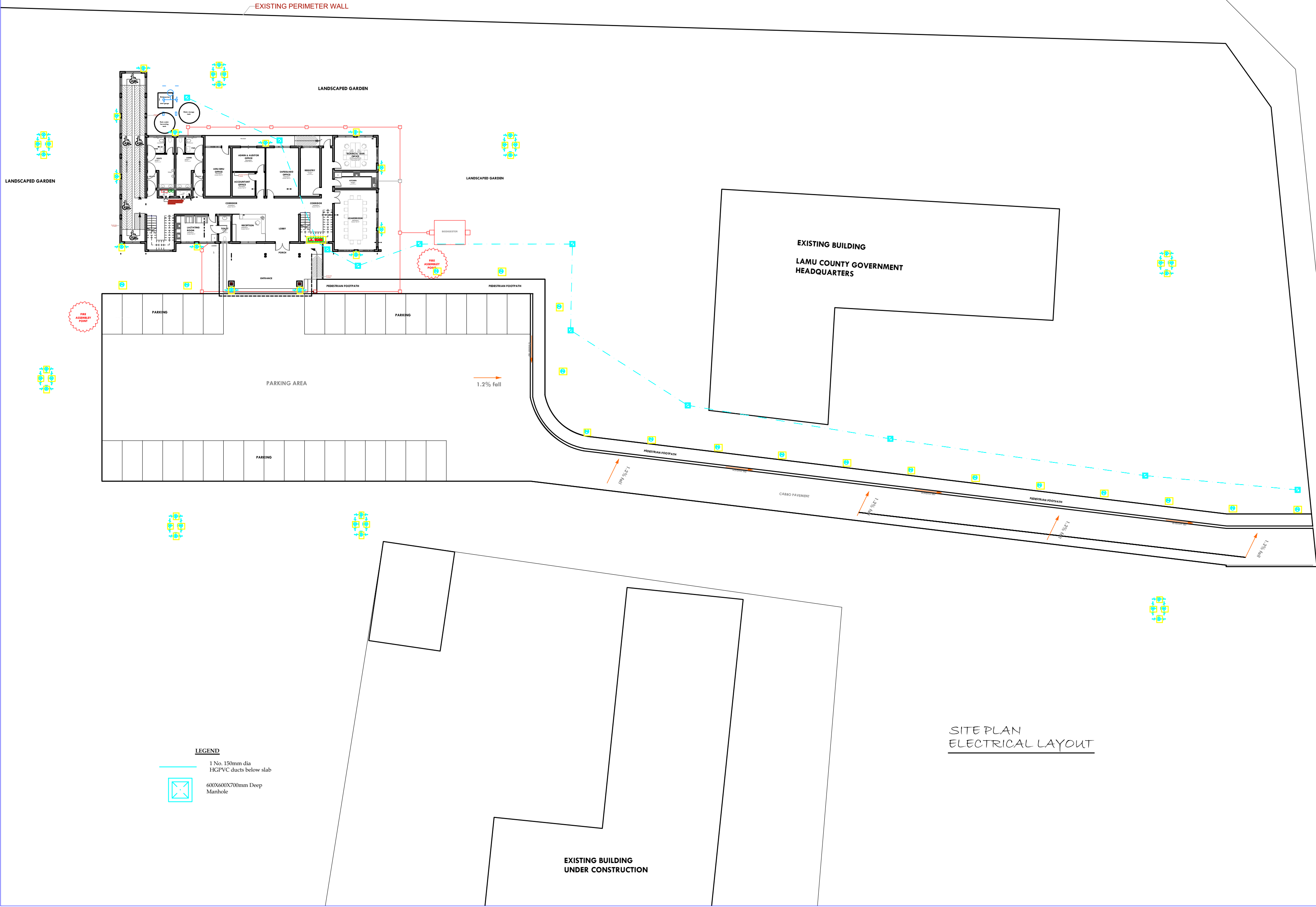
Dwg. No. **04- 003E- 024**

Scale: NTS

Drawn by Chek'd By

Project no.: Date:

04 20.01.2024



LEGEND

1 No. 150mm dia
HGPVC ducts below slab



600X600X700mm Deep
Manhole

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REV. No.	Details of Revision

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CLIENT:

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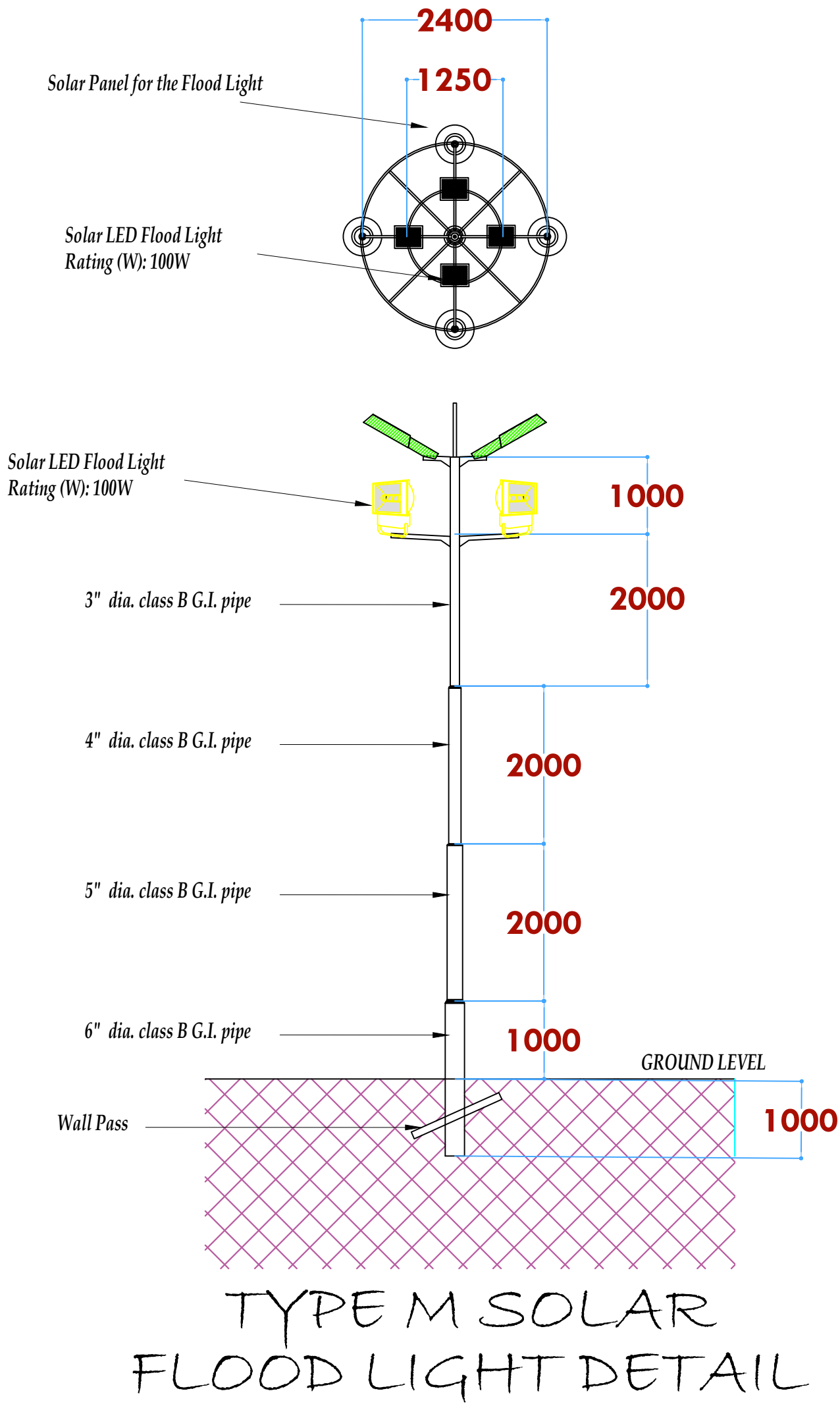
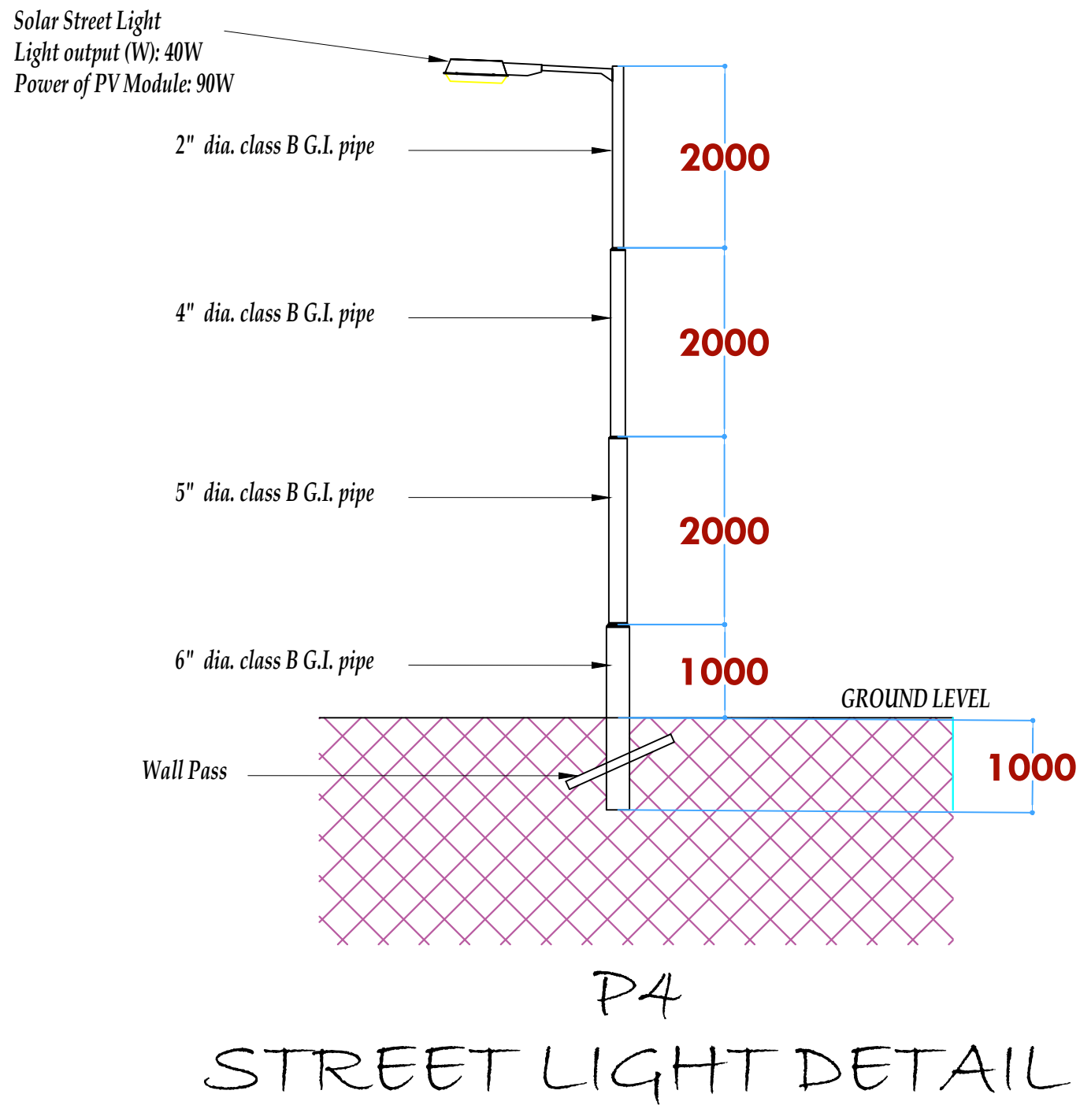
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DRAWING TITLE:

STREET LIGHT DETAIL

Dwg. No.	04- 003E- 025
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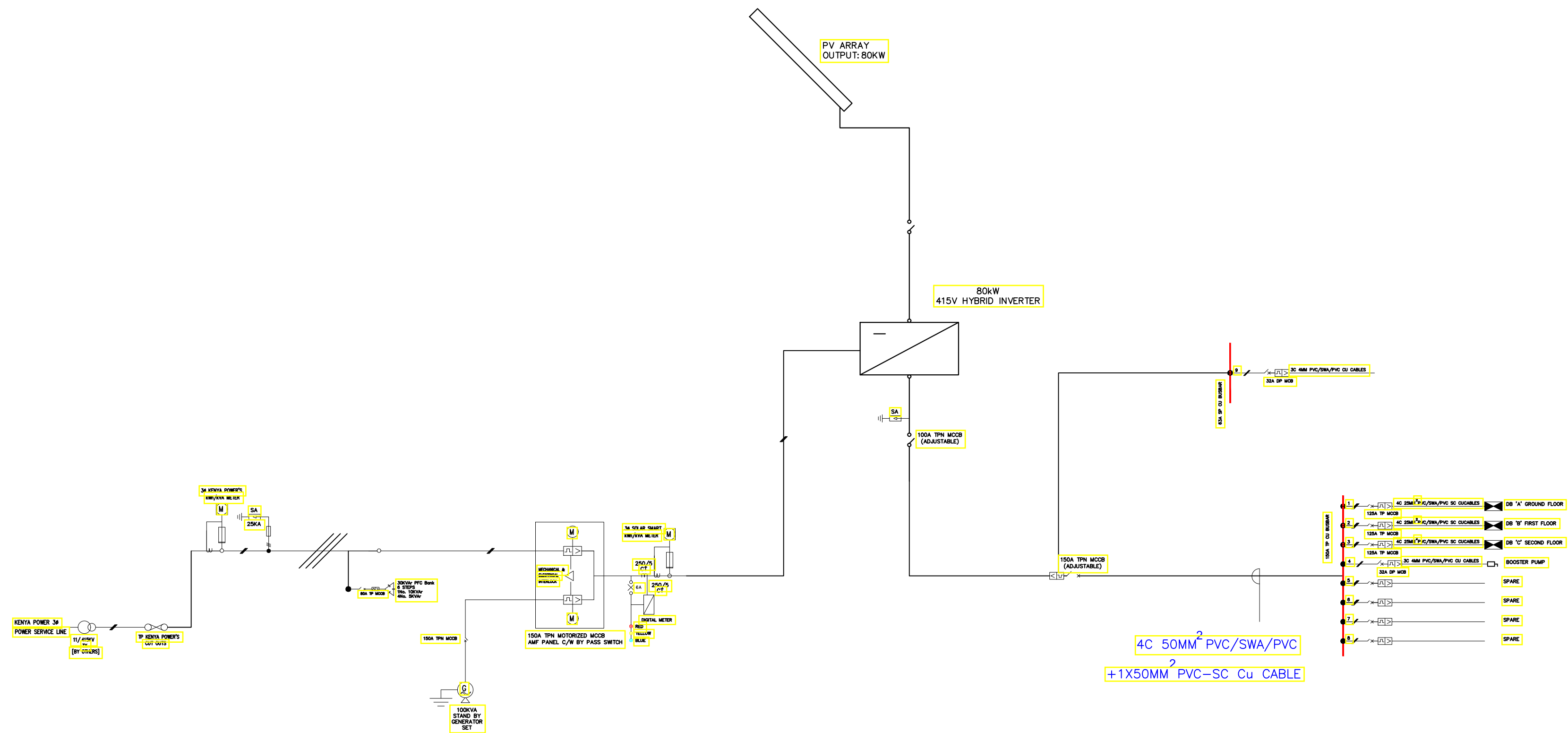
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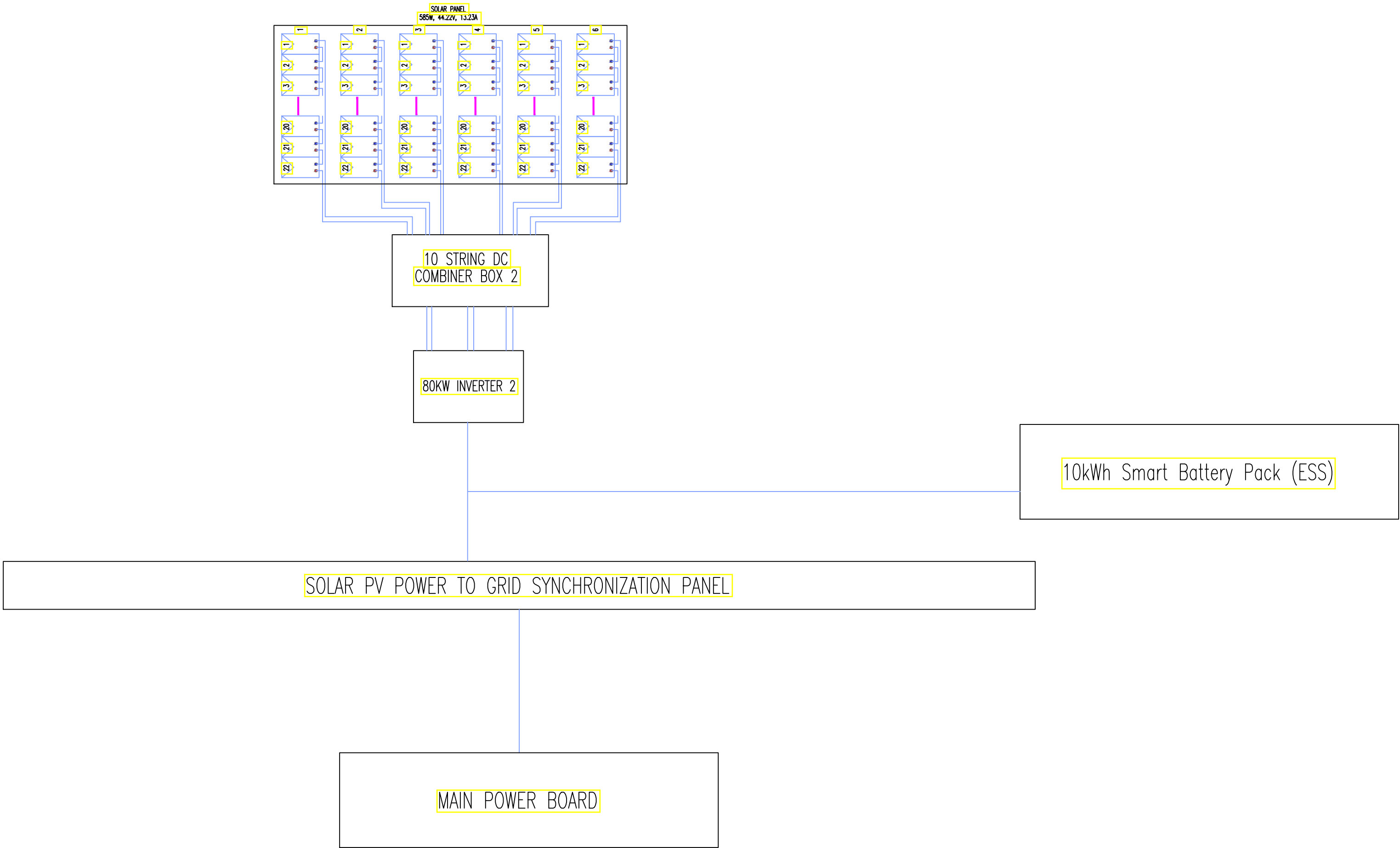
DRAWING TITLE:

MAIN SCHEMATIC

Dwg. No.	04- 003E- 026		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:	Date:		
04	20.01.2024		



OFFICE SUB-BOARD BELOW STAIRS



POWER SYSTEM
SOLAR SCHEMATIC



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CLIENT:

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DRAWING TITLE:

POWER SYSTEM SOLAR
SCHEMATIC

Dwg. No. 04- 003E- 027

Scale: NTS

Drawn by Chek'd By

Project no.: 04 Date: 24.11.2023

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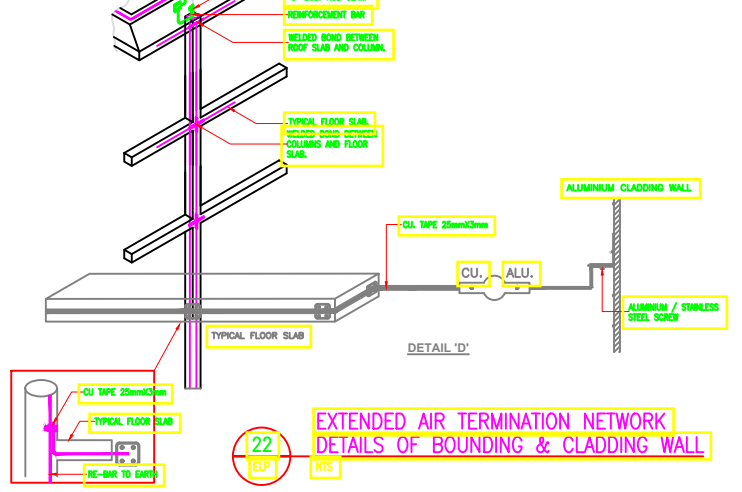
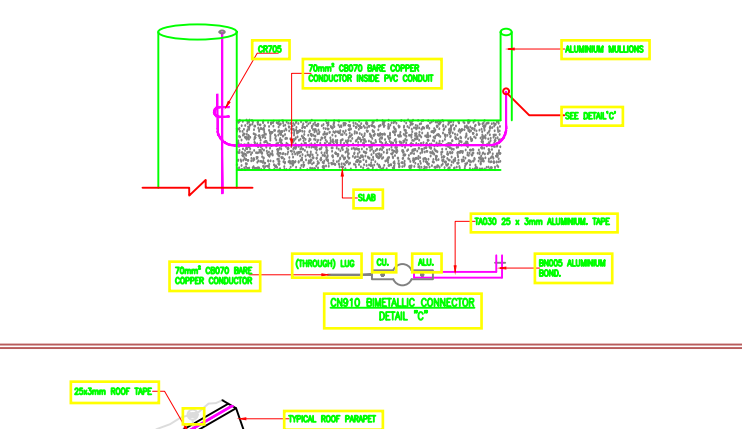
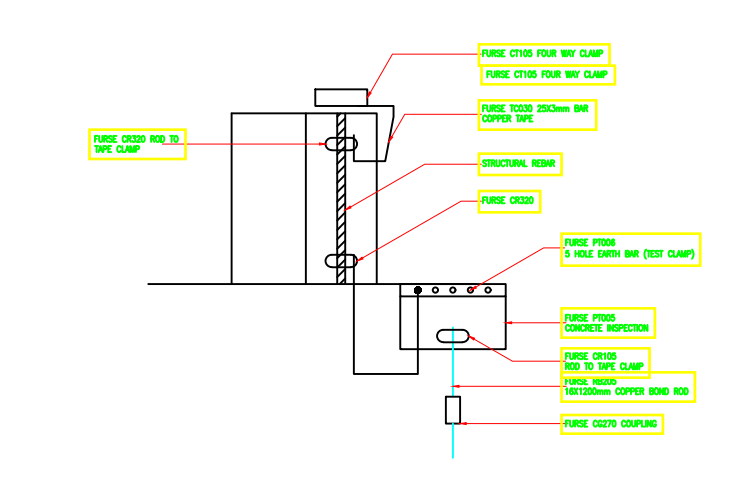
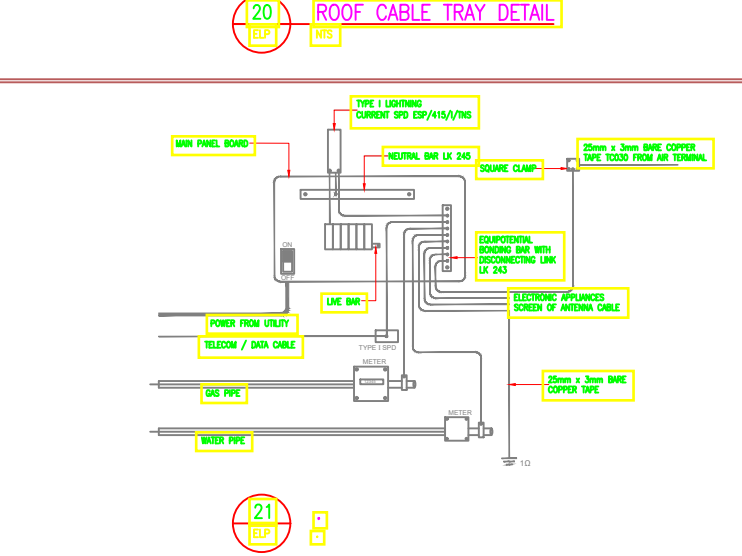
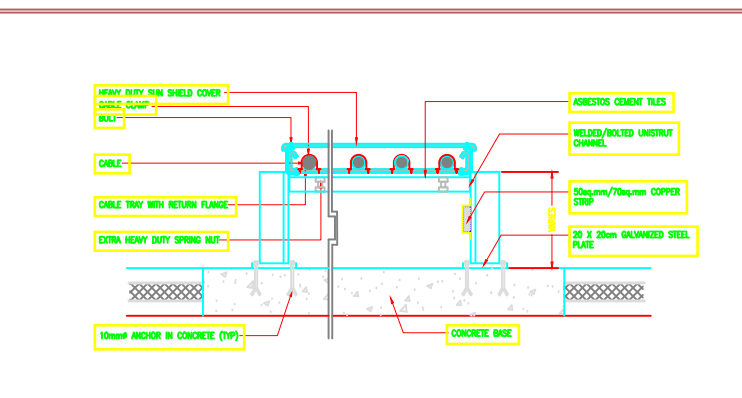
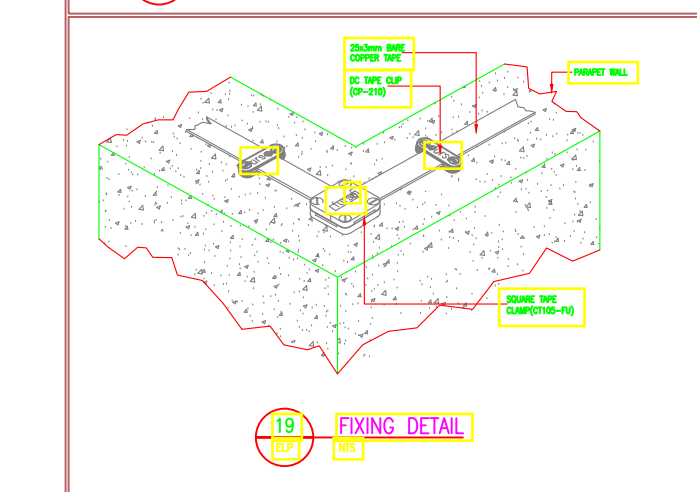
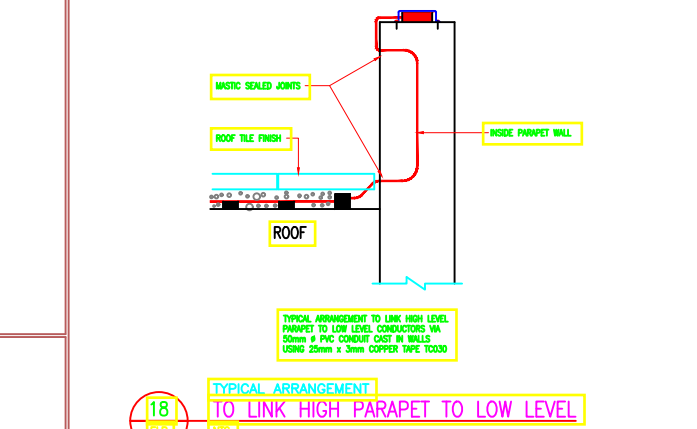
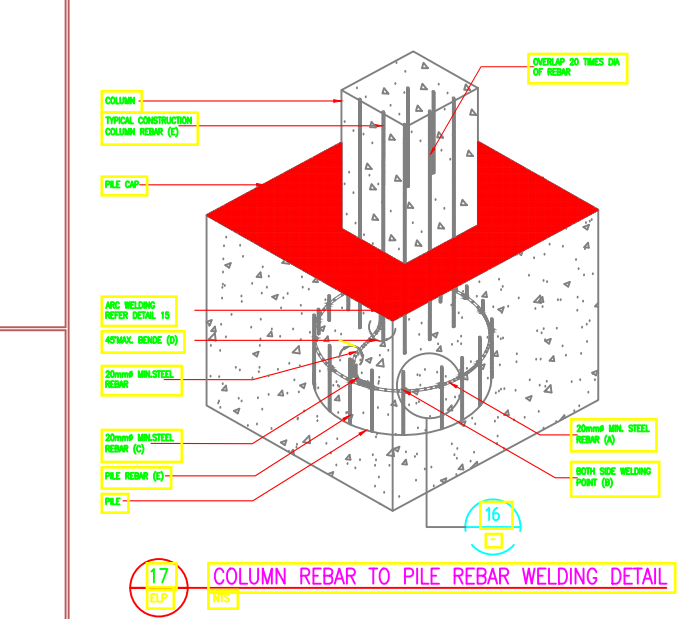
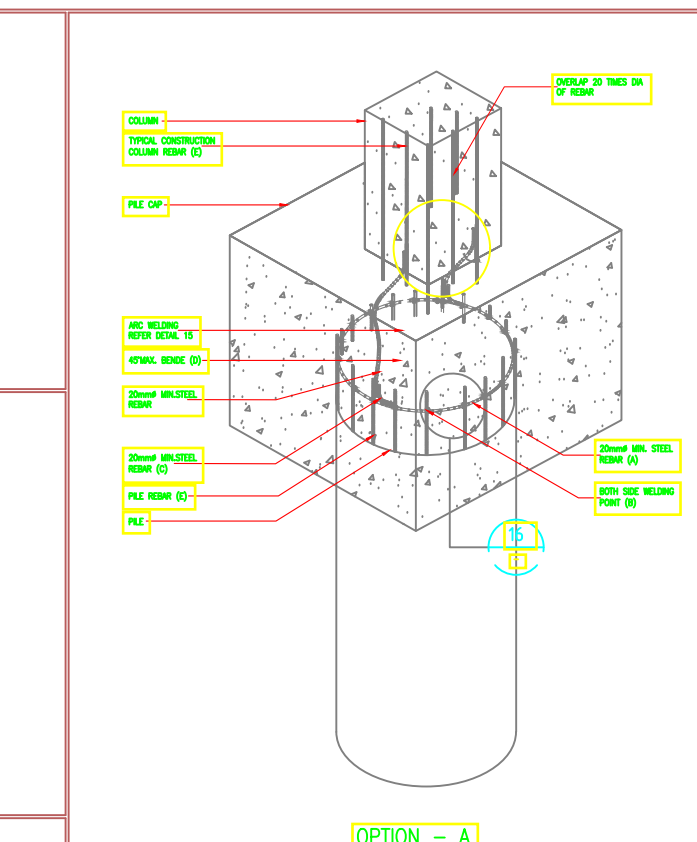
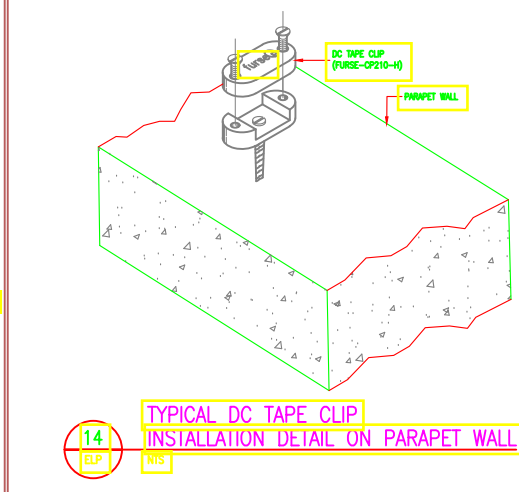
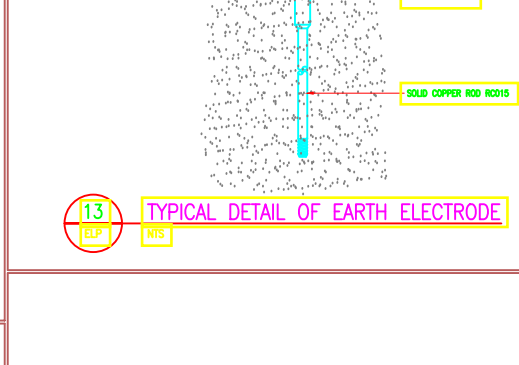
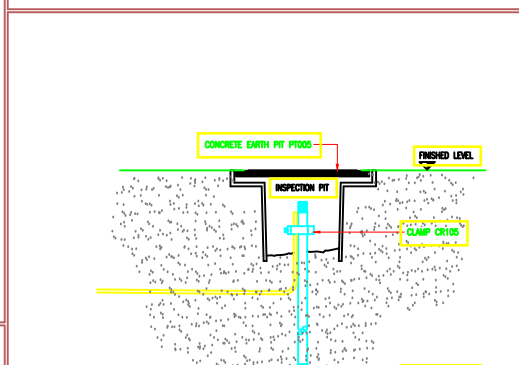
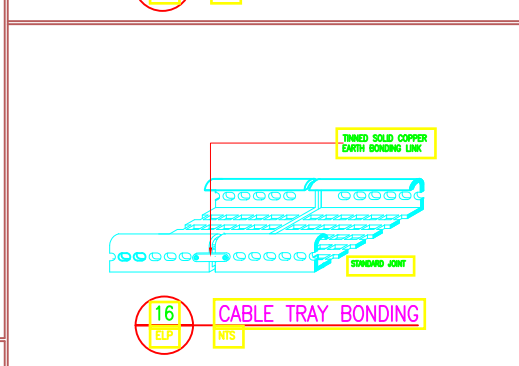
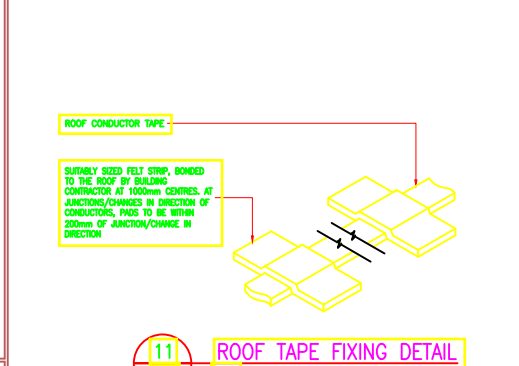
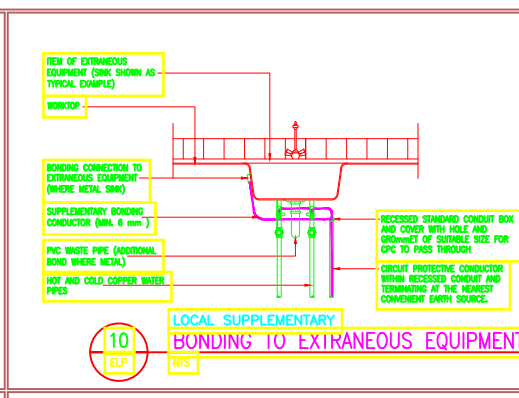
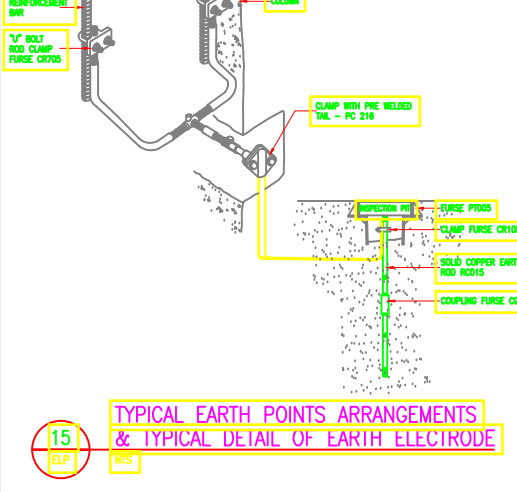
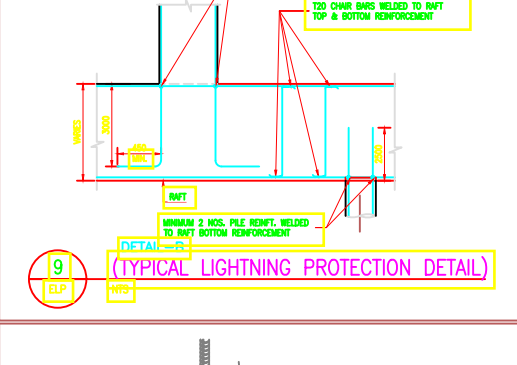
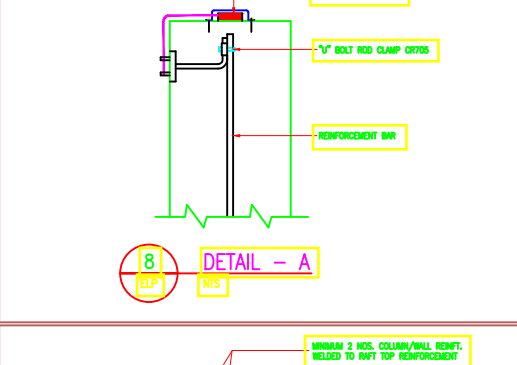
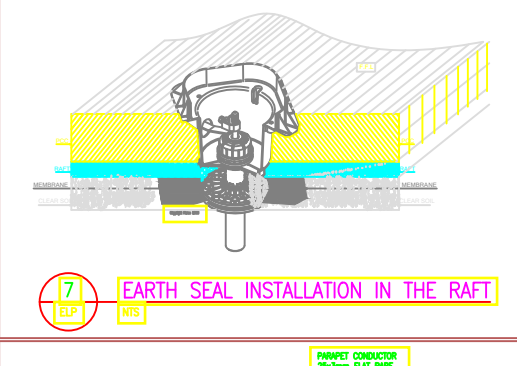
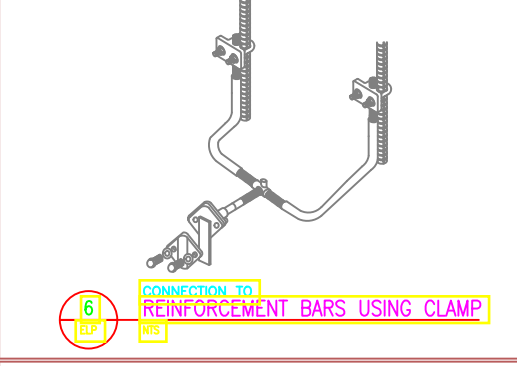
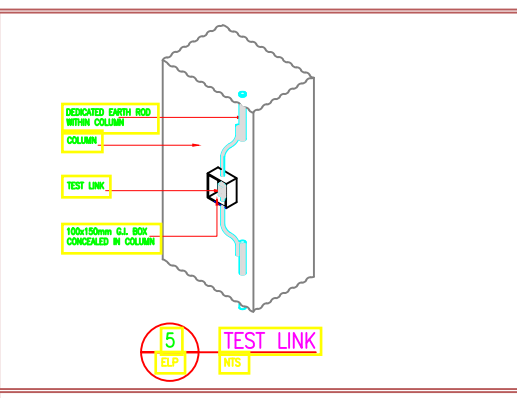
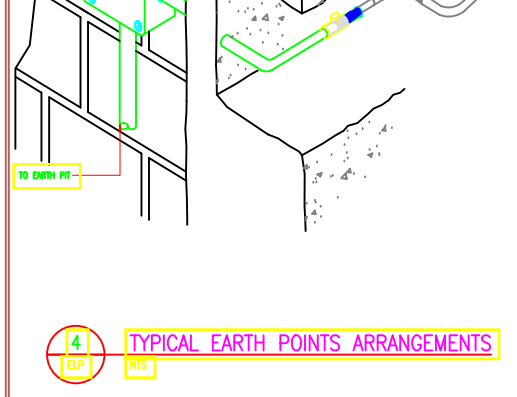
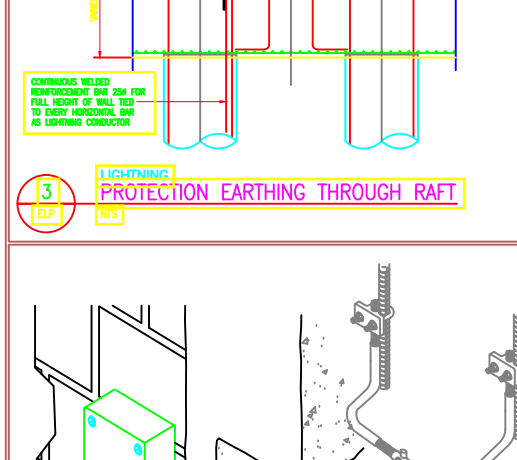
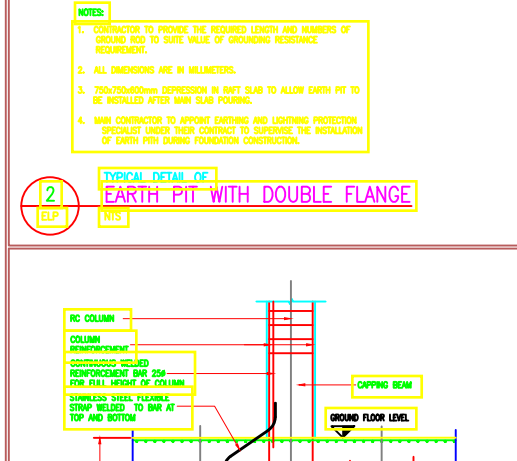
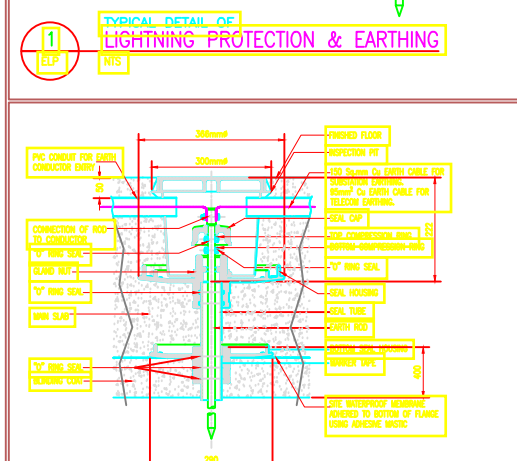
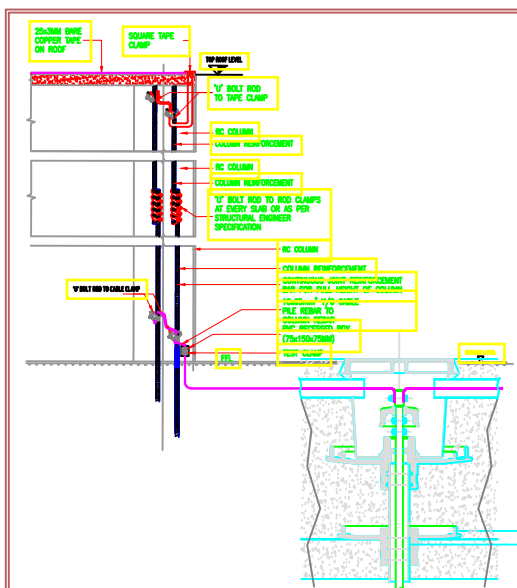
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POWER SYSTEM EARTHING
& LIGHTNING
PROTECTION DETAIL

Dwg. No. **04- 003E- 028**

Scale: NTS

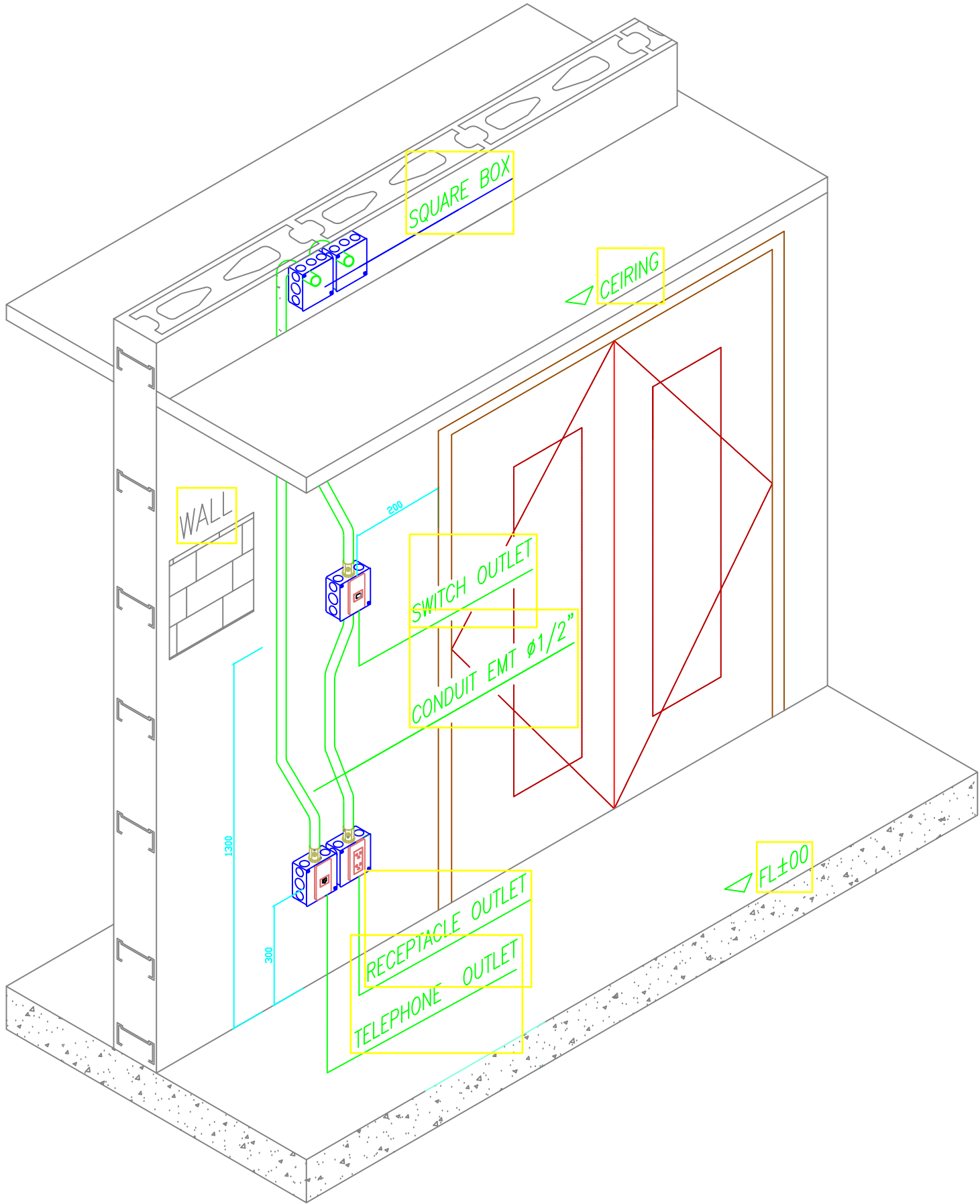
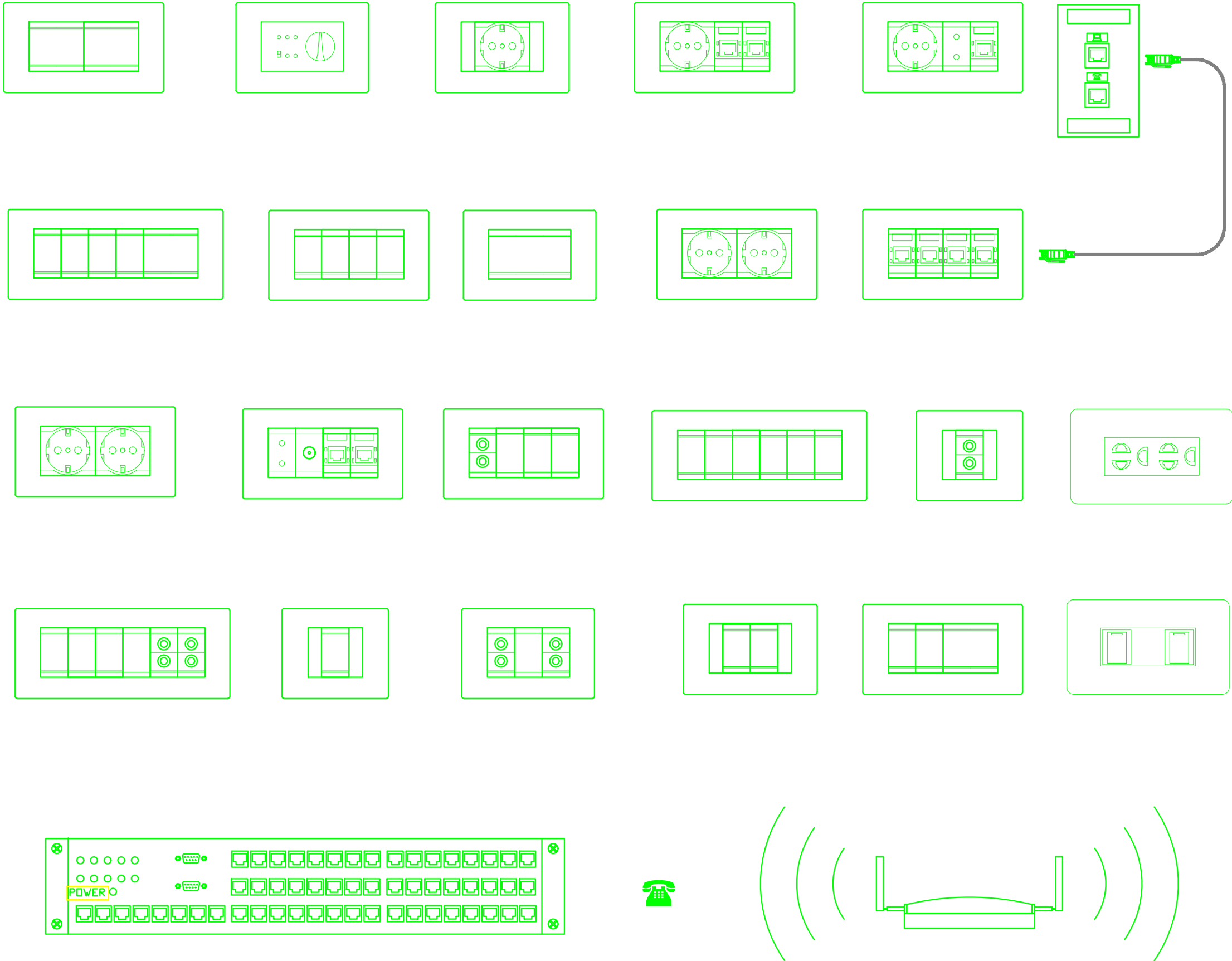
Drawn by Chek'd By

Project no.: 04
Date: 24.11.2023



- GENERAL NOTES:
1. DO NOT SCALE FROM THE DRAWING.
 2. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVEL IN METERS UNLESS NOTED OTHERWISE.
 3. ALL DIMENSIONS TO BE VERIFIED ON SITE AND APPROVED BY THE ENGINEERS.
 4. THE DRAWING SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWING AND RELEVANT SECTION OF THE SPECIFICATION.
 5. THE SPECIALIST LIGHTNING PROTECTION INSTALLER SHALL PROVIDE A LIGHTNING PROTECTION SYSTEM COMPLETELY IN ACCORDANCE WITH:
BS EN 62305-1 (1 - 3) : 2011 DESIGN STANDARDS
BS EN 62305-2 : 2010 MANUFACTURING STANDARDS FOR STRUCTURAL COMPONENTS
BS EN 62305-3 (PART 1-7) : 2010 MANUFACTURING STANDARDS FOR SURGE PROTECTION DEVICES
BS EN 61843-1 : 2010 MANUFACTURING STANDARDS FOR SURGE PROTECTION DEVICES
 6. THE SPECIALIST LIGHTNING PROTECTION INSTALLER SHALL SUBMIT THE RISK EVALUATION AND THE ACHIEVED LIGHTNING PROTECTION LEVEL (LPL) CALCULATION BASED ON BS EN 62305 - PART 2. NOTE DO NOT USE BS EN 62305-3 PARAMETERS & CALCULATIONS.
 7. THE SPECIALIST LIGHTNING PROTECTION INSTALLER SHALL USE 2500MM DIAMETER COPPER PIPE OF 90.80% PURITY (COMPLYING WITH BS EN 13601), (OR PVC COATED AS THE CASE MAY REQUIRE, COMPLYING WITH THE SAME) TO FORM THE AIR-TERMINATION MESH ON THE UPPERMOST PART OF THE STRUCTURE AND RING CONDUCTOR AROUND THE STRUCTURE.
 8. THE SPECIALIST LIGHTNING PROTECTION INSTALLER SHALL USE 2500MM COPPER PIPE AS RING CONDUCTOR AND THIS PIPE SHOULD BE BONDED TO ALL DOWN CONDUCTORS AROUND THE PERIMETER AND A BRANCH CONDUCTOR TO BE TAKEN HORIZONTALLY. ALSO ALL THESE DOWN CONDUCTORS TO BE BONDED TO THE ALUMINUM CLADDING WALL USING B-METALLIC CLAMPS (IN COMPLIANCE TO BS EN 62305-3).
 9. ALL THE FRINGE CLIPS FOR THE COPPER PIPE SHALL BE METALLIC (COMPLYING WITH CLASS 'Y' OF THE ELECTRICAL TESTING BASED ON BS EN 50144) AND SHALL BE FIXED AT AN INTERVAL OF 500MM (1000 MM FRINGE DISTANCE FOR FRINGE CONDUCTORS ON VERTICAL SURFACE UP TO 20M FROM THE GROUND LEVEL AND ON THE HORIZONTAL SURFACE I.E. ROOFS).
 10. A MINIMUM OF TWO RE-INFORCING BARS SHALL BE USED AS DOWN CONDUCTORS IN EACH COLUMN.
 11. THE MINIMUM OVERLAP DIMENSION TO CONNECT TWO RE-BARS SHALL BE AT LEAST 20 TIMES THE DIAMETER OF THE RE-BAR AND PRESTRESSING AND WELDING IF IT IS NOT PRACTICAL TO WELD, WELD STAINLESS STEEL CLAMPS SHOULD BE USED TO OVERLAP THE REBARS EACH 100MM SPACING TILL THE ABOVE DIMENSION IS ACHIEVED.
 12. THE ELECTRICAL CONTINUITY OF THE REINFORCING BARS SHALL BE DETERMINED BY ELECTRICAL TESTING BETWEEN THE UPPERMOST PART OF THE STRUCTURE AND THE OVERALL ELECTRICAL RESISTANCE SHOULD NOT BE GREATER THAN 0.20 OHM. MEASURED USING TEST EQUIPMENT SUITABLE FOR THIS PURPOSE. THE SPECIALIST LIGHTNING PROTECTION INSTALLER SHOULD SUBMIT TEST REPORTS BEFORE COMMENCEMENT OF THE INSTALLATION.
 13. THE COMPOSITE GLASS - ALUMINUM PANEL SHALL BE BONDED TO ALL THE DOWN CONDUCTORS AT THE WINDOW SILL LEVELS AS PER THE ROLLING SPHERE SPACING BY USING B-METALLIC CLAMPS (COMPLYING TO BS EN 62305-3).
 14. A MINIMUM OF 2400 MM LENGTH OF SOLID COPPER ROD WITH NICKEL PLATING SHALL BE PROVIDED WITH EACH DOWN CONDUCTOR SEPARATELY. THE SPECIALIST LIGHTNING PROTECTION INSTALLER SHALL SUBMIT THE CALCULATION FOR DETERMINING THE NUMBER OF EARTH RODS IN EACH EARTH PIT TO ACHIEVE THE REQUIRED RESISTANCE TO EARTH VALUE.
 15. THE COMPLETE LIGHTNING PROTECTION SYSTEM MEASURED AT ANY POINT, SHOULD NOT EXCEED 10 OHMS.
 16. THE RESISTANCE TO EARTH FOR ELECTRICAL AND TELECOM PITS SHOULD NOT EXCEED 1 OHM.
 17. IF CLEAR EARTH IS NOT AVAILABLE, THEN THE SPECIALIST LIGHTNING PROTECTION INSTALLER HAS TO INSTALL THE EARTH PIT INSIDE THE BUILDING USING COMPRESSION TYPE MEMBRANE SEALANT EARTH ELECTRODE SEAL.
 18. THE SEAL WILL WITHSTAND WATER PRESSURE UP TO 70 PSI (EQUAL TO A 50 METER HEAD OF WATER). THE EARTH SEAL FLANGE SHALL BE FREE FROM DUST / DEBRIS, GREASE/PART BEFORE POURING OF THE CONCRETE. TEST REPORT TO BS EN 62305-3/BS EN 62305-3 MUST BE SUBMITTED.
 19. A SPECIALIST INSTALLER SHOULD BE EMPLOYED TO DO THE INSTALLATION OR SHALL BE DONE UNDER THE SUPERVISION OF THE MANUFACTURER OR THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
 20. SPECIALIST LIGHTNING PROTECTION INSTALLER ALSO HAS TO ENSURE, BASED ON BS EN 62305-3 - 11, THAT SUITABLE CO-ORDINATED OVER-VOLTAGE SURGE PROTECTION DEVICES WITH AN EXTRA LOW LET-THROUGH VOLTAGE AND TO EXCEED 500V ARE USED FOR PROTECTING ANY TERMINAL DEVICES I.E. DBs FEEDING CRITICAL SERVICES OR EVEN THE LOCAL CRITICAL ELECTRICAL GOODS.
 21. THE SERVICE EQUIPMENTS ON THE ROOF (I.E. CHILLER UNITS ETC) TO BE PROTECTED USING VERTICAL AIR TERMINALS INSTALLED AT A SUITABLE SEPARATION DISTANCE. THE CABLE FROM THE EQUIPMENT SHALL BE PROTECTED USING AN OVER - VOLTAGE PROTECTION SPD.
 22. THE EQUIPMENT SHALL NOT BE BONDED TO THE AIR TERMINATION NETWORK.
 23. SPECIALIST LIGHTNING PROTECTION INSTALLER SHALL GIVE THE CALCULATION OF THE SUITABLE SEPARATION DISTANCE.
 24. PROTECTORS SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF:
BS EN 61643-11/111, BS 2014/15/27, & IEC 62305-3-1/101
THE PERMANENT LET-THROUGH VOLTAGE SHALL NOT EXCEED 400 VOLTS, FOR SPDs WITH A NORMAL WORKING VOLTAGE OF 230 OR 240 VOLTS, (80V 1.2/50 μ S OPEN CIRCUIT VOLTAGE, 30KA 8/20 μ S SHORT CIRCUIT CURRENT).
 25. ALL SURGE PROTECTION DEVICES TO BE USED SHALL BE FROM THE SAME MANUFACTURER WHO SUPPLIES THE STRUCTURAL LIGHTNING PROTECTION.
 26. THE SPECIALIST LIGHTNING PROTECTION INSTALLER SHALL ENSURE PROPER CO-ORDINATION BETWEEN THE STRUCTURAL, CIVIL, ELECTRICAL AND THE CLADDING INSTALLER.
 27. ALL INSTALLATION DETAILS SHALL BE AGREED WITH THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.
 28. THE SPECIALIST LIGHTNING PROTECTION INSTALLER SHALL OBTAIN AN INSPECTION CERTIFICATE FROM THE MANUFACTURER OR ITS AUTHORIZED REPRESENTATIVE TOWARDS THE SATISFACTORY INSTALLATION OF THE SYSTEM AND THAT PROPER MATERIAL IN ACCORDANCE TO THE ABOVE STANDARD HAS BEEN USED.
 29. THE SHOP DRAWINGS MUST BE APPROVED BY THE MANUFACTURER OR THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE WHICH HAS TO BE USED FOR INSTALLATION AFTERWORKS TO ENSURE TOTAL ADHERENCE TO THE STANDARDS AND REQUIREMENTS.
 30. THE MANUFACTURER OR THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE WILL HAVE TO SURVEY AND CERTIFY THE INSTALLATION TO ENSURE THE STANDARDS.
 31. THE MANUFACTURER OR THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE WILL CERTIFY THE BILL OF MATERIALS, PROVIDED BY THE SPECIALIST LIGHTNING PROTECTION INSTALLER FOR THE PROJECT.
 32. THE SPECIALIST LIGHTNING PROTECTION INSTALLER MUST SUBMIT THE TEST CERTIFICATES OF THE MATERIALS USED AS PER BS EN 50144, WHICH SHOULD BE ATTESTED IN ORIGINAL BY THE MANUFACTURER OR THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
 33. THE PERIODIC INSPECTIONS AND TESTS HAVE TO BE REPEATED AT FIXED INTERVALS, AS ADVISORY IN THE BS EN 62305-3 - PART 10.
 34. PRE-WELDED EARTH POINTS SUITABLE FOR USE WITH THIN REBAR IS USED TO CONNECT THE AIR TERMINATION NETWORK TO THE DOWN CONDUCTORS.
 35. LIGHT WEIGHT INSPECTION EARTH PIT WITH CONCRETE LD SHOULD BE PLACED AS CLOSE AS POSSIBLE (500 - 1000MM) FROM FINISHED WALL.
 36. CONTRACTION TO ENSURE ELECTRICAL CONTINUITY THROUGH OUT THE PINNACLE STEEL STRUCTURE.

TENDER ISSUE



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- LAMU

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
SOCKET & SWITCHES
DETAIL

Dwg. No. 04- 003E- 029

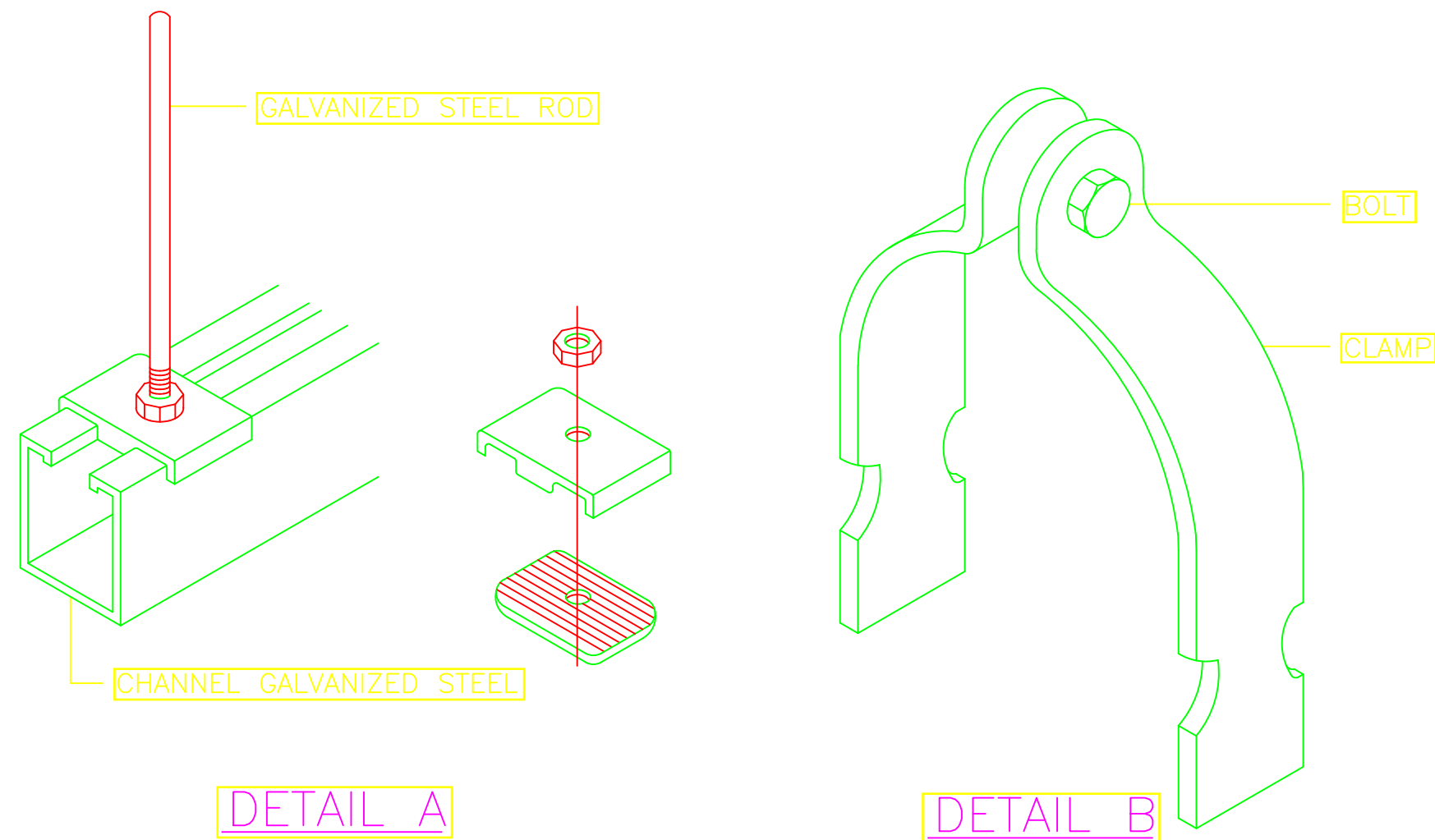
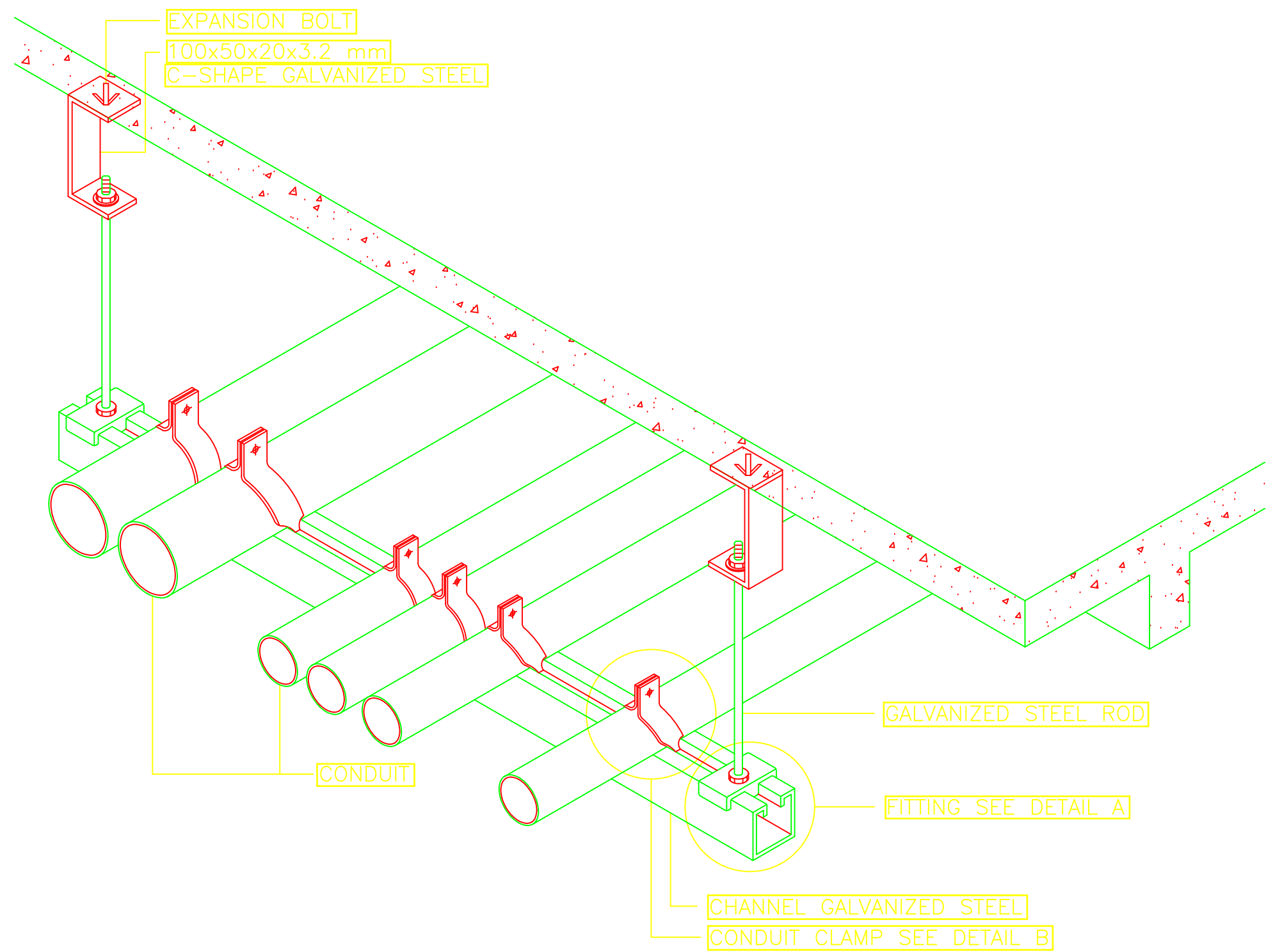
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Project no.: 04 Date: 24.11.2023

CONDUIT SUPPORT

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
RESOURCE CENTER & RELATED
INFRASTRUCTURE- SHIMONI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

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CONDUIT SUPPORT DETAIL

Dwg. No. 04- 003E- 030

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Project no.: 04 Date: 24.11.2023



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- LAMU

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
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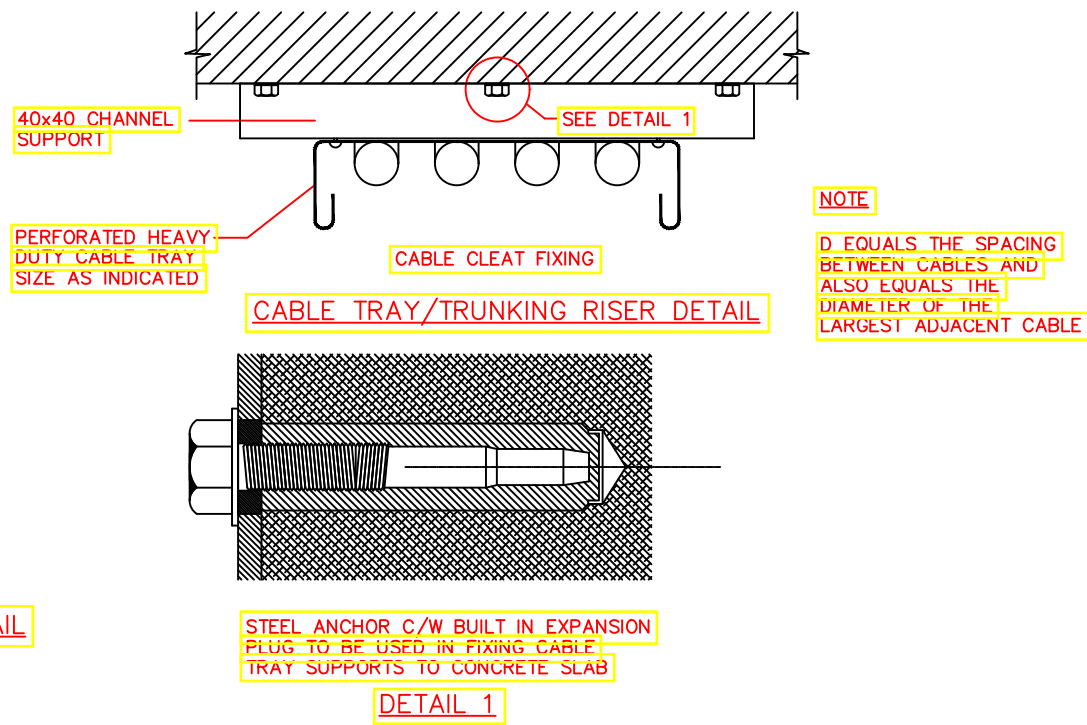
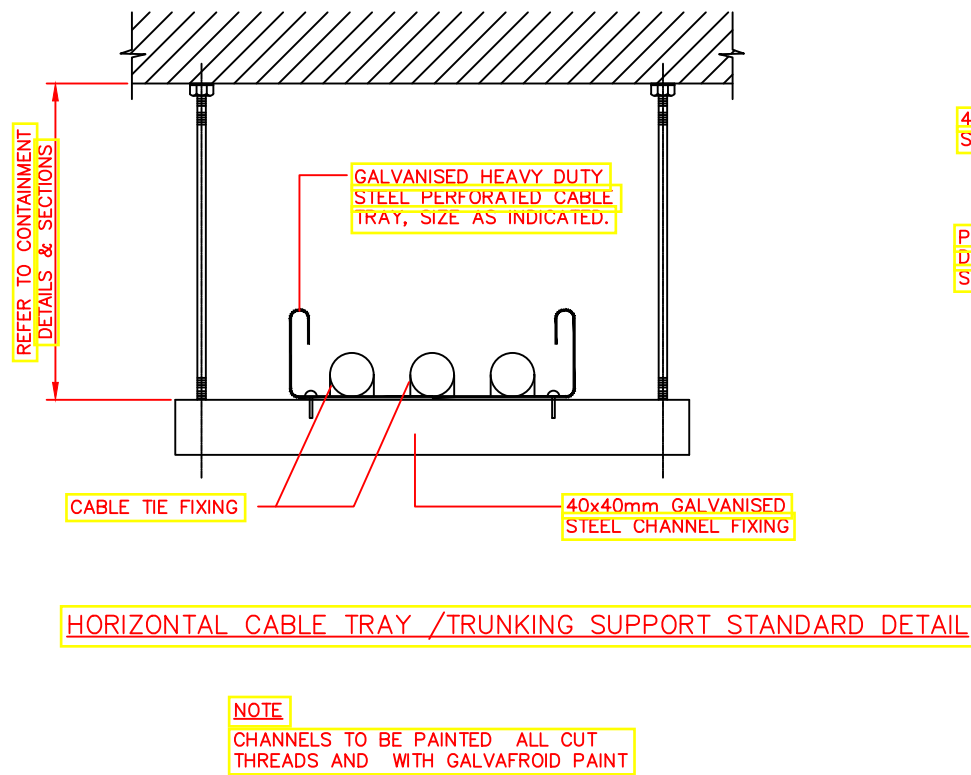
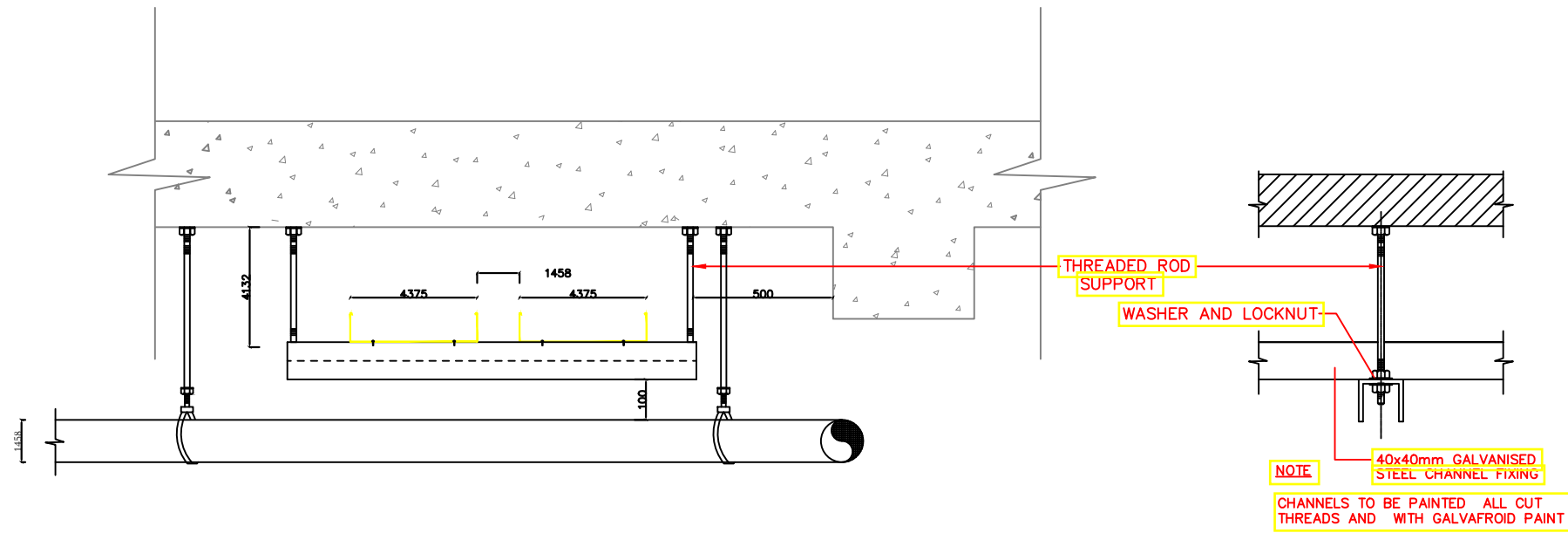
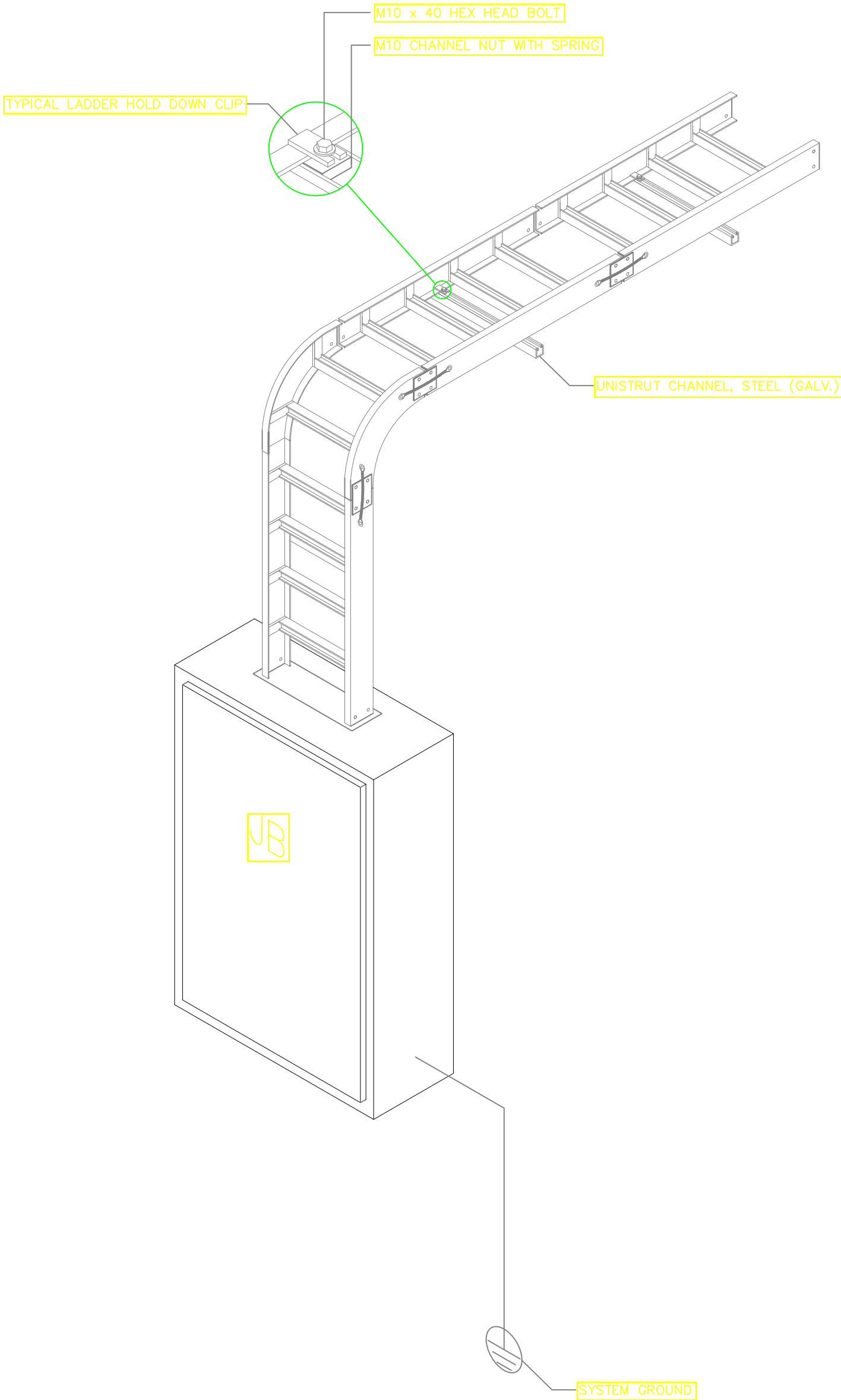
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Dwg. No. **04- 003E- 031**

Scale: NTS

Drawn by Chek'd By

Project no.: Date: 24.11.2023



DRAWING TITLE: PROPOSED CONSTRUCTION OF OFFICE & RELATED INFRASTRUCTURE, LAMU

DRAWING NUMBER: 04-003M- 001

No.	DRAWING/ DOCUMENT TITLE	DRAWING NUMBER	DRAWING SHEET	DRAWING FORMAT	DOCUMENT STATUS
D	ELECTRICAL ENGINEERING DRAWINGS				
1	LIST OF DRAWINGS	04- 003M- 001	A3	PDF/ EXCEL	Provided
2	GROUND FLOOR DRAINAGE	04- 003M- 002	A2	PDF/ DWG	Provided
3	GROUND FLOOR PLUMBING	04- 003M- 003	A2	PDF/ DWG	Provided
4	FIRST FLOOR DRAINAGE	04- 003M- 004	A2	PDF/ DWG	Provided
5	FIRST FLOOR PLUMBING	04- 003M- 005	A2	PDF/ DWG	Provided
6	SECOND FLOOR DRAINAGE	04- 003M- 006	A2	PDF/ DWG	Provided
7	SECOND FLOOR PLUMBING	04- 003M- 007	A2	PDF/ DWG	Provided
8	ROOF SLAB MECHANICAL DRAWING	04- 003M- 008	A2	PDF/ DWG	Provided
9	ROOF SLAB DRAINAGE DRAWING	04- 003M- 009	A2	PDF/ DWG	Provided
10	SITE PLAN MECHANICAL DRAWING	04- 003M- 010	A2	PDF/ DWG	Provided

TENDER ISSUE



NOTES

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04	20.01.2024
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NOTES

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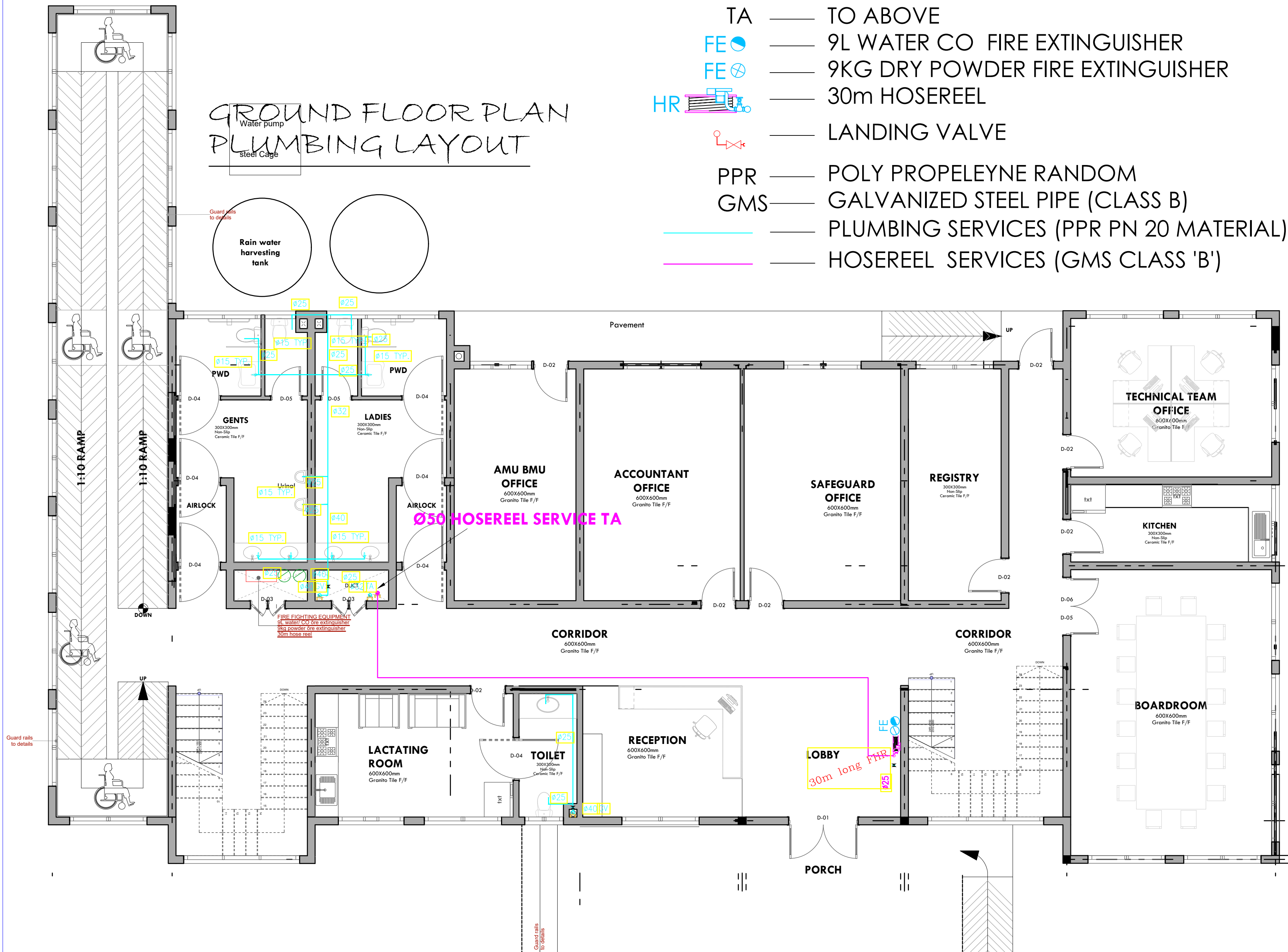
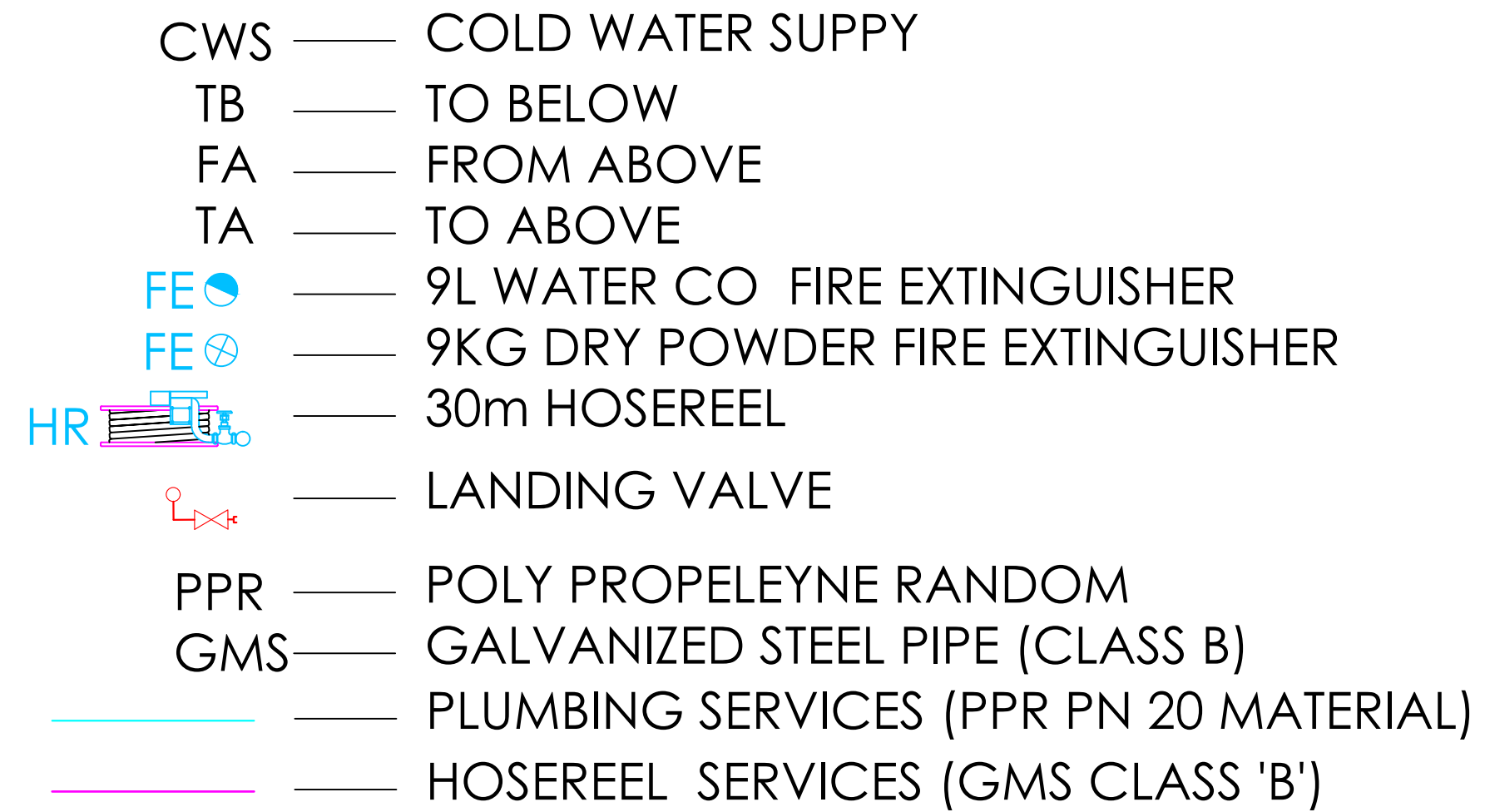
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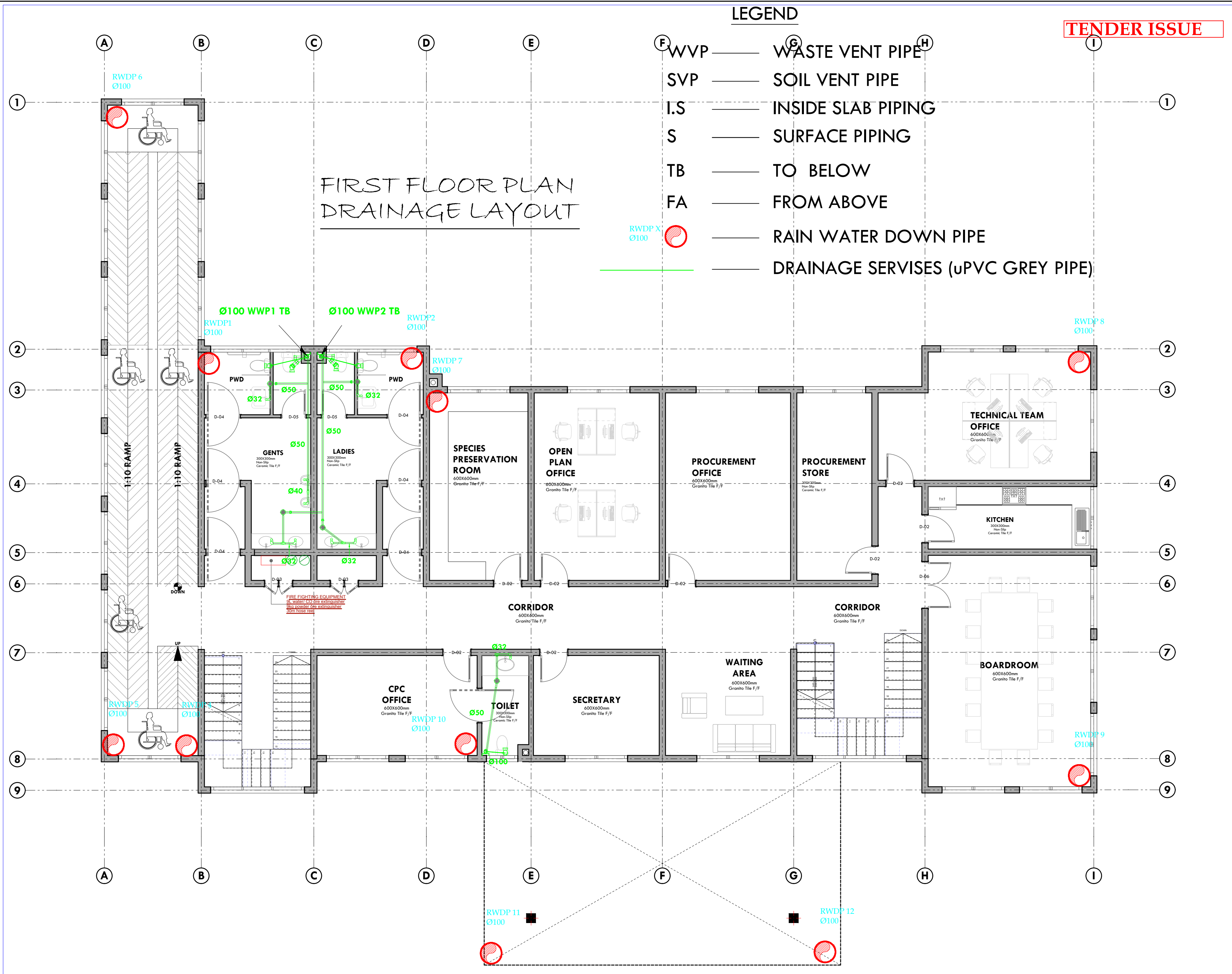
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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

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INFRASTRUCTURE- LAMU

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

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DRAWING TITLE:

**FIRST FLOOR DRAINAGE
LAYOUT**

Dwg. No. **04- 003M- 004**

Scale: NTS

Drawn by _____ Chek'd By _____

Project no.: _____ Date: _____

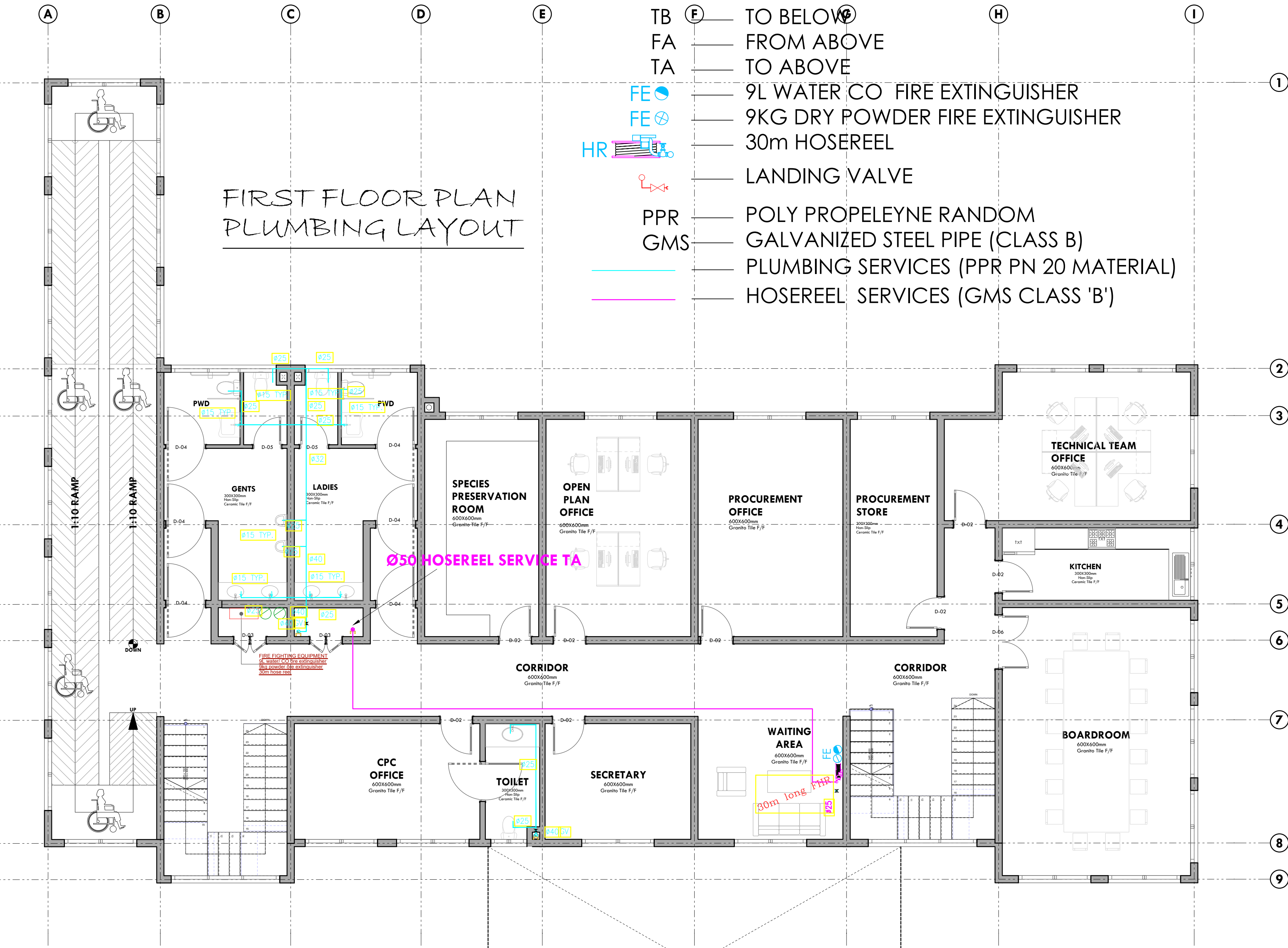
04 20.01.2024

LEGEND

TENDER ISSUE

- CWS — COLD WATER SUPPLY
TB — TO BELOW
FA — FROM ABOVE
TA — TO ABOVE
FE — 9L WATER CO FIRE EXTINGUISHER
FE — 9KG DRY POWDER FIRE EXTINGUISHER
HR — 30m HOSEREEL
— LANDING VALVE
PPR — POLY PROPELEYNE RANDOM
GMS — GALVANIZED STEEL PIPE (CLASS B)
— PLUMBING SERVICES (PPR PN 20 MATERIAL)
— HOSEREEL SERVICES (GMS CLASS 'B')

FIRST FLOOR PLAN
PLUMBING LAYOUT



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
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CLIENT:

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AQUACULTURE & THE BLUE
ECONOMY

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DRAWING TITLE:

FIRST FLOOR POWER
LAYOUT

Dwg. No. 04- 003M- 005

Scale: NTS

Drawn by _____ Chek'd By _____

Project no.: _____ Date: _____

04 20.01.2024

LEGEND

TENDER ISSUE

- WVP

—

WASTE VENT PIPE
- SVP

—

SOIL VENT PIPE
- I.S

—

INSIDE SLAB PIPING
- S

—

SURFACE PIPING
- TB

—

TO BELOW
- FA

—

FROM ABOVE
- RWDP X

Ø100

—

RAIN WATER DOWN PIPE
- DRAINAGE SERVICES (uPVC GREY PIPE)

SECOND FLOOR PLAN
DRAINAGE LAYOUT



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- LAMU

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

SECOND FLOOR DRAINAGE
LAYOUT

Dwg. No. 04- 003M- 006

Scale: NTS

Drawn by Chek'd By

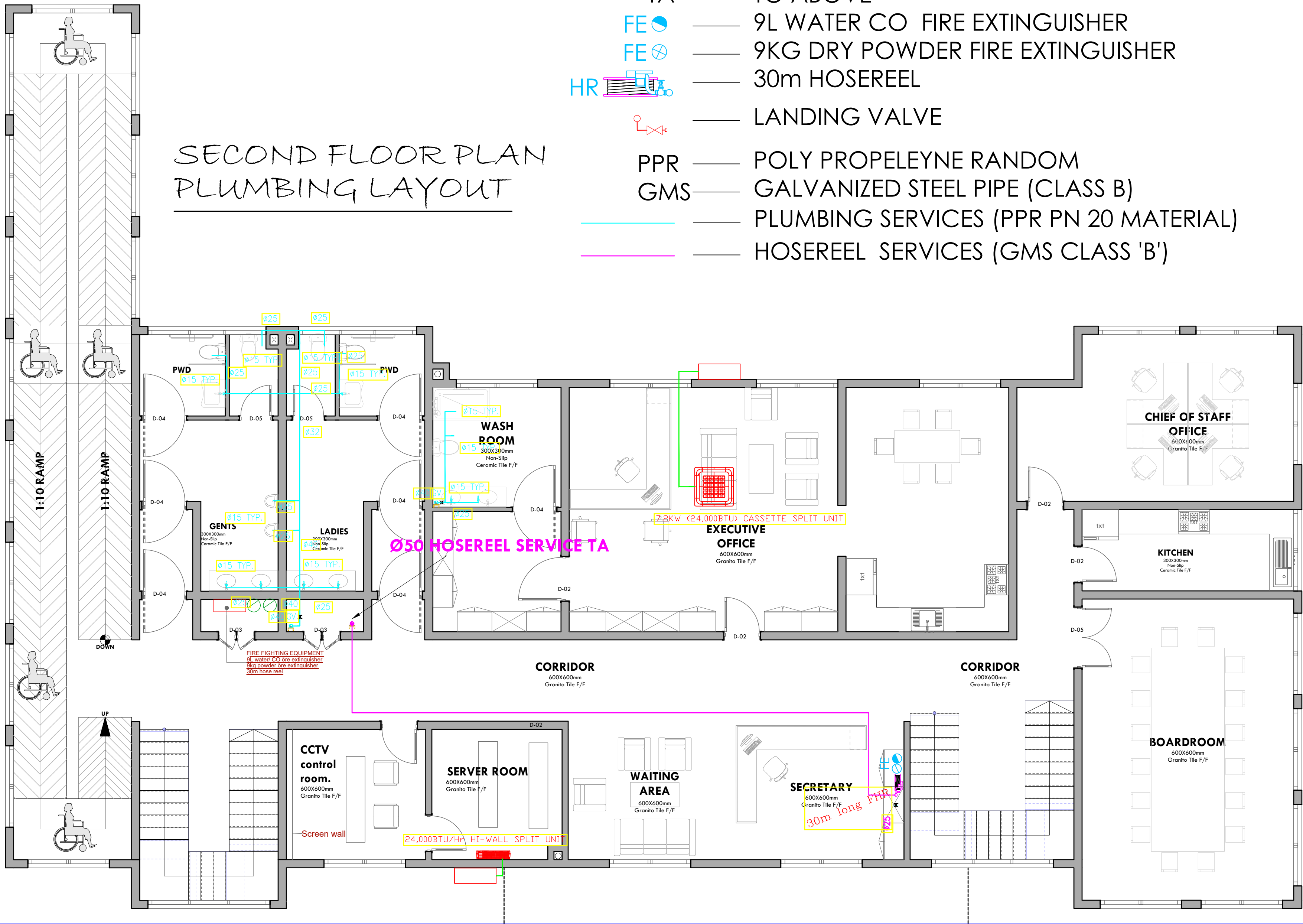
Project no.: 04 Date: 20.01.2024

LEGEND

TENDER ISSUE

- CWS — COLD WATER SUPPLY
TB — TO BELOW
FA — FROM ABOVE
TA — TO ABOVE
FE — 9L WATER CO FIRE EXTINGUISHER
FE — 9KG DRY POWDER FIRE EXTINGUISHER
HR — 30m HOSEREEL
— LANDING VALVE
PPR — POLY PROPELEYNE RANDOM
GMS — GALVANIZED STEEL PIPE (CLASS B)
— PLUMBING SERVICES (PPR PN 20 MATERIAL)
— HOSEREEL SERVICES (GMS CLASS 'B')

SECOND FLOOR PLAN
PLUMBING LAYOUT



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NAIROBI. KENYA.

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REV. No.	Details of Revision

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ECONOMY

CLIENT'S SIGNATURE:

Sign: _____

DRAWING TITLE:

SECOND FLOOR PLUMBING
LAYOUT

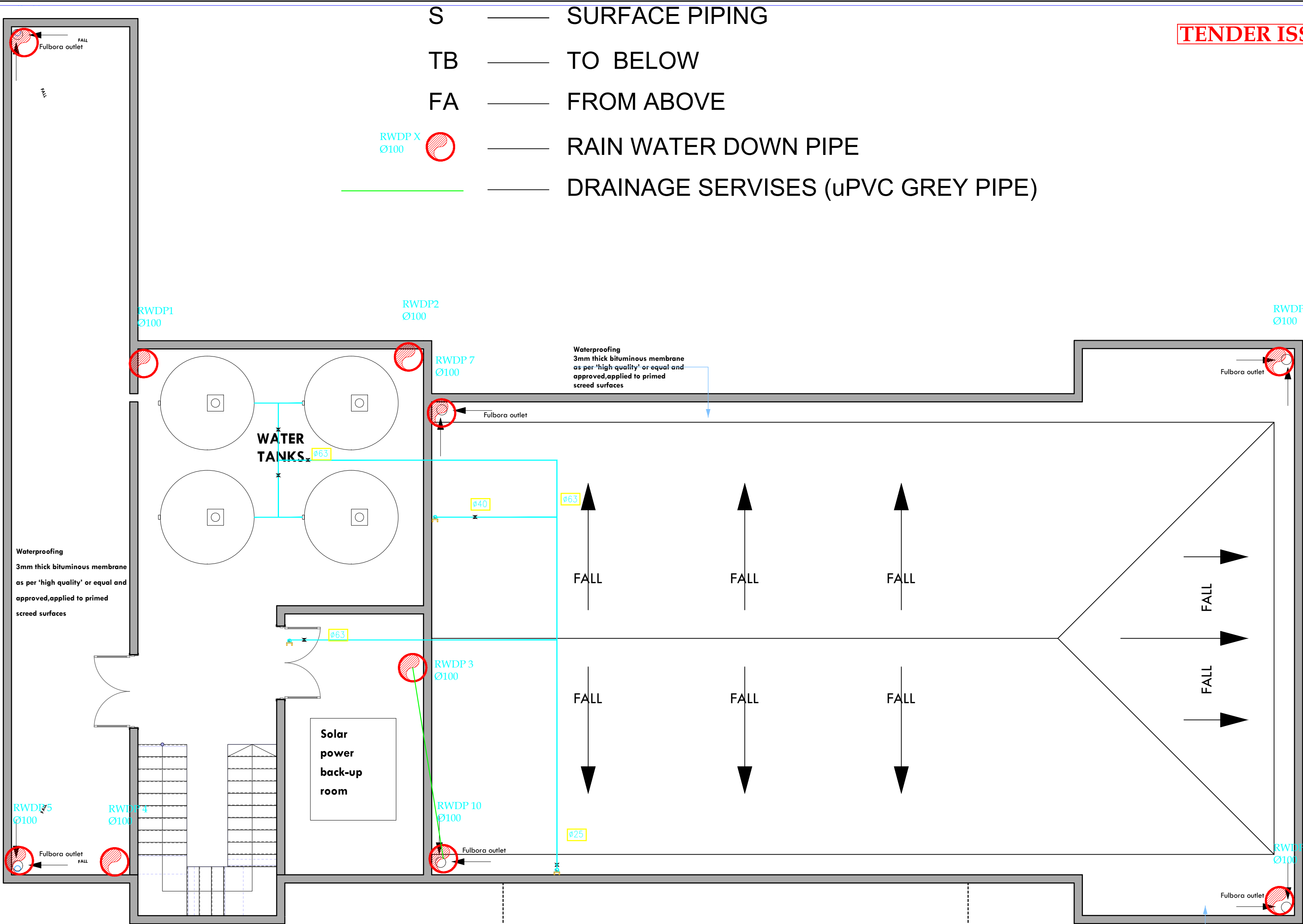
Dwg. No. 04- 003M- 007

Scale: NTS

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Project no.: _____ Date: _____

04 20.01.2024



ROOF FLOOR PLAN
ELECTRICAL LAYOUT

- S — SURFACE PIPING
- TB — TO BELOW
- FA — FROM ABOVE
- RWDP X Ø100 — RAIN WATER DOWN PIPE
- DRAINAGE SERVICES (uPVC GREY PIPE)

TENDER ISSUE

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REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
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CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
ROOF MECHANICAL
LAYOUT

Dwg. No. 04- 003E- 022

Scale: NTS

Drawn by Chek'd By

Project no.: Date:

04 20.01.2024



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
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STATE DEPARTMENT FOR FISHERIES,
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ECONOMY

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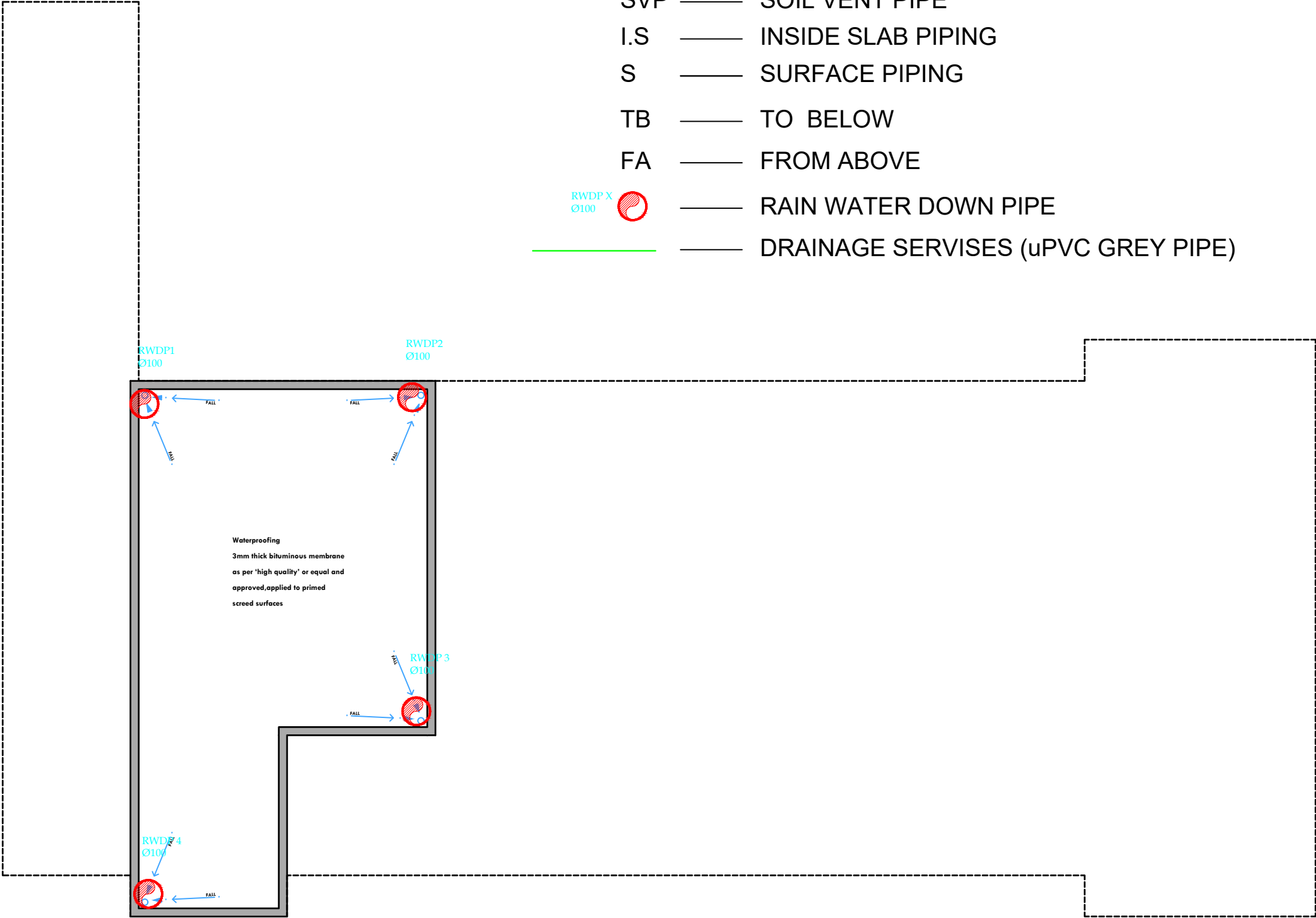
DRAWING TITLE:

ROOF DRAINAGE LAYOUT

Dwg. No.	04- 0039- 009
Scale:	NTS
Drawn by	Chek'd By
Project no.:	Date:
04	20.01.2024

LEGEND

- WVP ——— WASTE VENT PIPE
SVP ——— SOIL VENT PIPE
I.S ——— INSIDE SLAB PIPING
S ——— SURFACE PIPING
TB ——— TO BELOW
FA ——— FROM ABOVE
RWDP X Ø100 ——— RAIN WATER DOWN PIPE
————— DRAINAGE SERVICES (uPVC GREY PIPE)



ROOF
DRAINAGE

TENDER ISSUE

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PROPOSED CONSTRUCTION OF
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STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

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Sign:

DRAWING TITLE:

SITE PLAN MECHANICAL
LAYOUT

Dwg. No. 04- 003M- 010

Scale: NTS

Drawn by Chek'd By

Project no.: 04 Date: 20.01.2024

Duty- Stand- by Booster Pump
Flow Rate: 5,000lts/hour
Head: 15m

LANDSCAPED GARDEN

LANDSCAPED GARDEN

LANDSCAPED GARDEN

EXISTING BUILDING
LAMU COUNTY GOVERNMENT
HEADQUARTERS

EXISTING PERIMETER

EXISTING PERIMETER

Fire Hydrant

Fire Hydrant

2 way Breaching Inlet

SITE PLAN WATER MECHANICAL DRAWING

EXISTING BUILDING
UNDER CONSTRUCTION