



**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 RENOVATION OF MALINDI FISHERIES
OFFICE**

Employer: State Department for Blue Economy & Fisheries
Project: Kenya Marine Fisheries Socio-Economic
Development Project (KEMFSED)
Contract Title: **CONSTRUCTION RENOVATION OF
MALINDI FISHERIES OFFICE**
Country: Republic of Kenya
Loan No./Credit No./Grant No.: 6540-KE
RFBNo.: KE-MOMBE&MA-KLF-2024-015-CW
Issued on: 13TH FEBRUARY 2024

VOLUME 1 OF 4

DRAWINGS

PROJECT 07

PROPOSED REHABILITATION OF FISHERIES OFFICES IN MALINDI.

NO.	DRAWINGS/DOCUMENT.	DRAWING NO.	DRAWING SHEET SIZE.	DRAWING FORMAT.	DOCUMENT STATUS.
	PROJECT 07. ARCHITECTURAL DRAWINGS.				
01	LIST OF DRAWINGS.	07-001-000	3A.	PDF/DWG.	PROVIDED.
02	SITE PLAN.	07-001-001	3A.	PDF/DWG.	PROVIDED.
03	SCOPE OF DEMOLITIONS.	07-001-002	3A.	PDF/DWG.	PROVIDED.
04	SCOPE OF DEMOLITIONS.	07-001-003	3A.	PDF/DWG.	PROVIDED.
05	PLANS: GROUND & ROOF.	07-001-004	3A.	PDF/DWG.	PROVIDED.
06	PART PLAN (I)	07-001-005	3A.	PDF/DWG.	PROVIDED.
07	PART PLAN (II)	07-001-006	3A.	PDF/DWG.	PROVIDED.
08	ELEVATION & SECTION	07-001-007	3A.	PDF/DWG.	PROVIDED.
09	WINDOW & DOOR SCHEDULE	07-001-008	3A.	PDF/DWG.	PROVIDED.

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 polytheneen 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. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVP's or waste pipes. All bends and junctions to have inspection 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 BSS 4514 and 5255. cast iron to comply to BSS 497 table 6 grade C except ones in the driveway which shall comply to BSS 556.
18. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C except
19. Storm water drain shall comply to BSS 556.
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 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. 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

Project :
PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT

Plot L . R. No.:

Location :
REHABILITATION OF FISHERIES OFFICE MALINDI

Client :
STATE DEPARTMENT FOR FISHERIES AQUACULTURE AND THE BLUE ECONOMY

Signature :

Subject :

WORKING DRAWINGS.

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

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B. Arch. (Hons)

Date:NOV 2023

Scale 1:100

Checked by :-
F. TUNDULI
B. Arch. (Hons)
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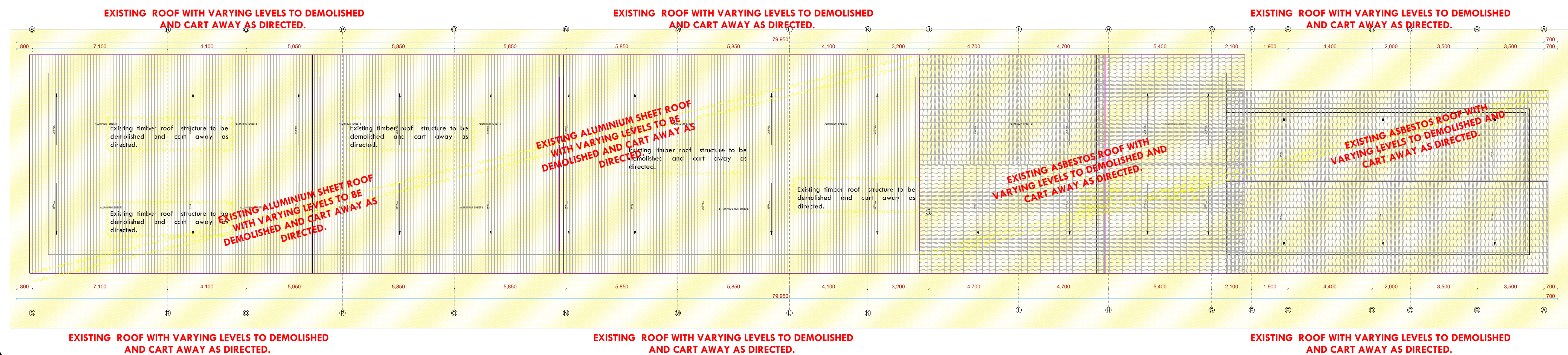
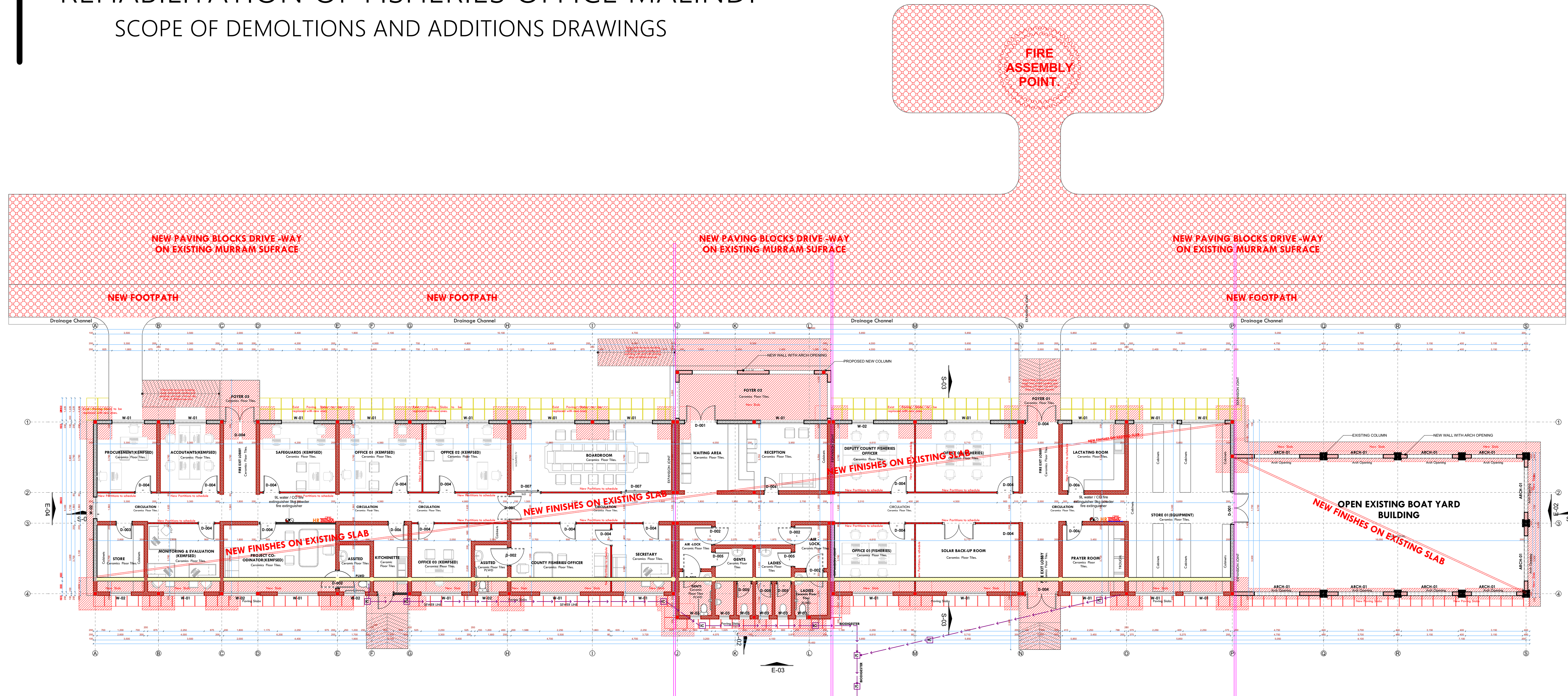
Job No . 2023/Nov/KILIFI

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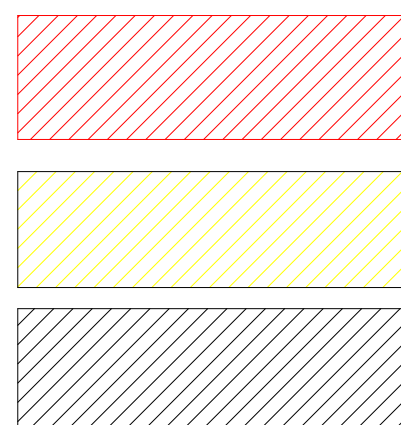
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REHABILITATION OF FISHERIES OFFICE MALINDI

SCOPE OF DEMOLTIONS AND ADDITIONS DRAWINGS



LEGEND



PROPOSED NEW WALLS AND PARTITIONS.

EXISTING WALLS TO BE DEMOLISHED.

EXISTING WALLS TO BE RETAINED.

**FIRE
ASSEMBLY
POINT.**

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. 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 transition plastered.
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 457 and 5255, cast iron to comply to BS 855 497 table 6 grade C except ones in the street which shall comply to BS 855 497 table 6 grade C.
18. All inspection chambers covers and frames shall be cast iron to comply to BS5 497 table 6 grade C.
19. Storm water drain shall comply to BS 556.
20. Minimum slopes for 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. 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 FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT

Plot L. R. No.:

Location : **REHABILITATION OF
FISHERIES OFFICE MALINDI**

Client:

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

Signature

Subject :

WORKING DRAWINGS.

Consultancy :

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

P. MOMANYI B. Arch. (Hons).	F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)
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	Checked
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F. TUNDULI
B. Arch. (Hons)
M. Arch.
(reg. No. A1552)

	Checked
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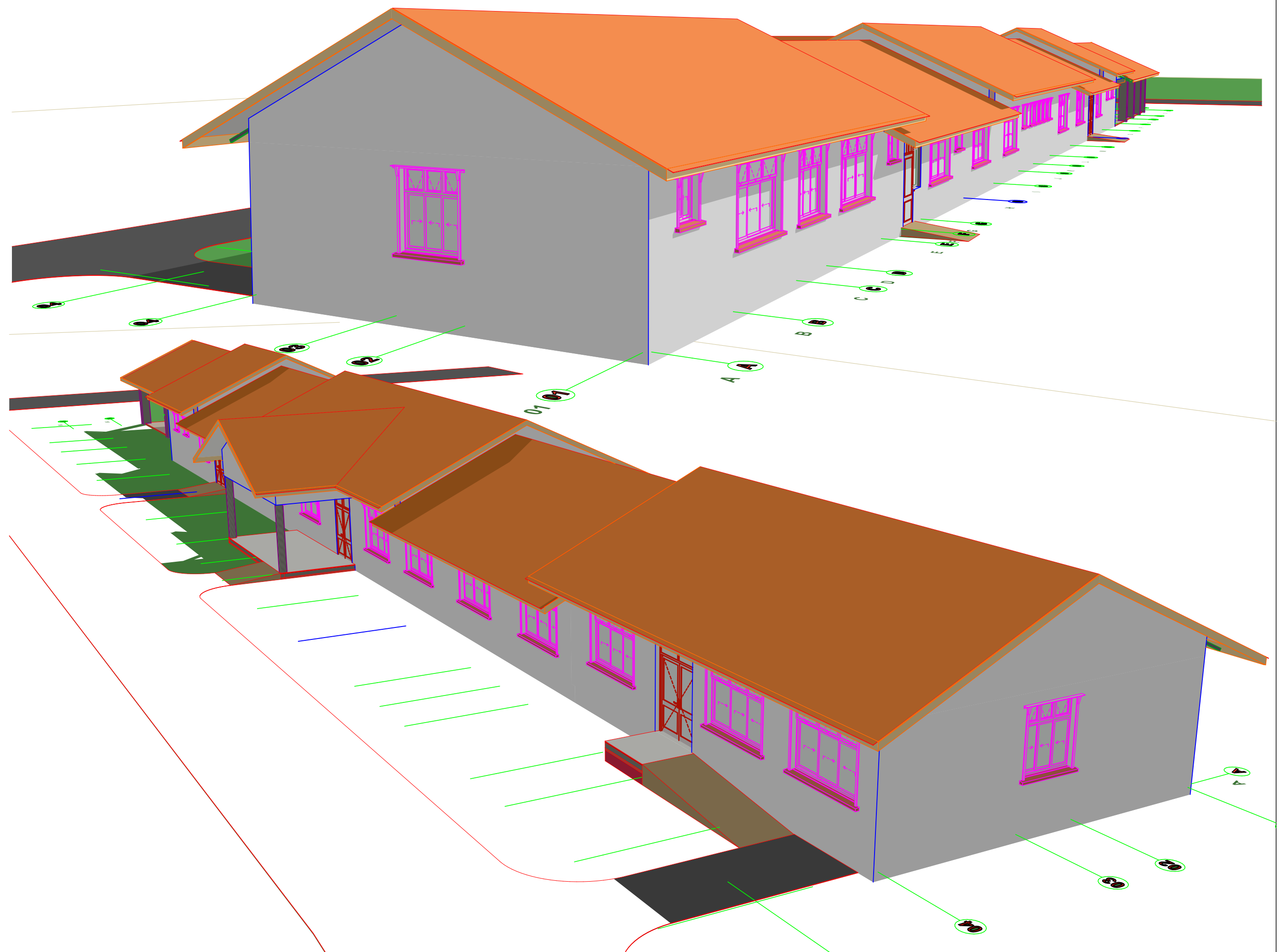
F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
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ate: NOV 2023

3	Job No . 2023/Nov/KILIFI
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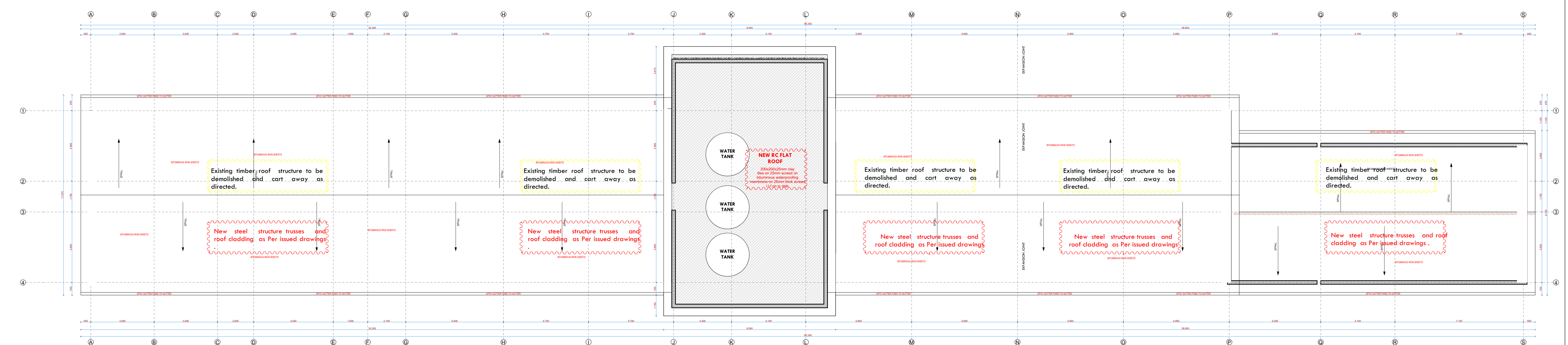
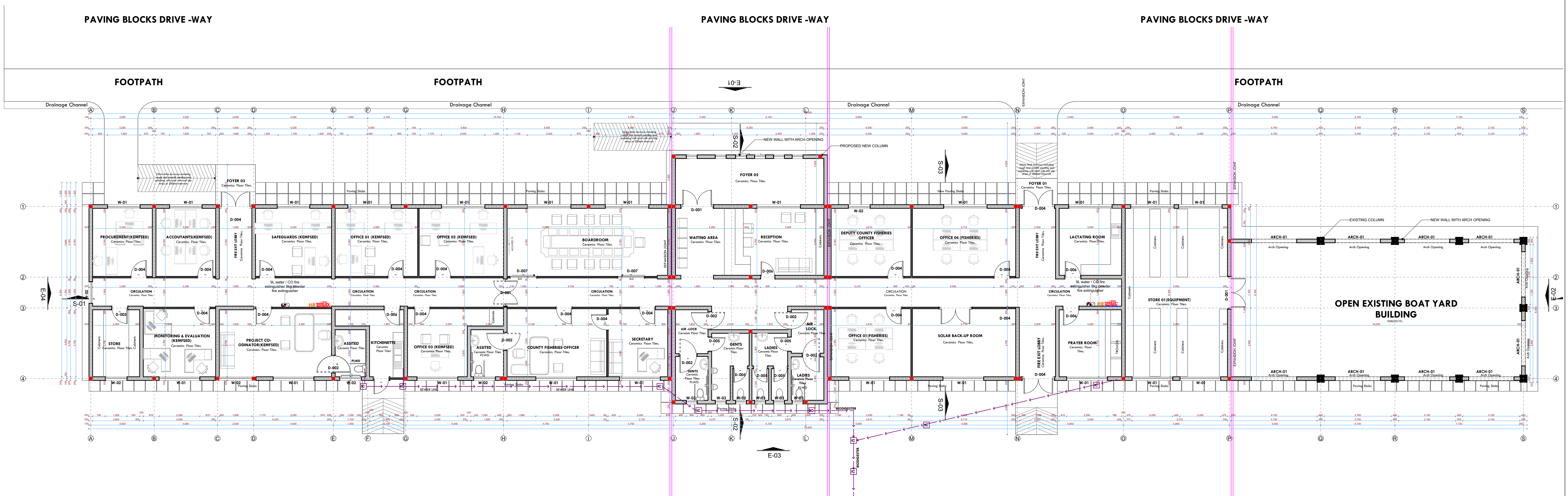
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REHABILITATION OF FISHERIES OFFICE MALINDI

GROUND AND ROOF PLAN



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 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 approval local authority's specifications.
13. Service ducts to be installed in the ceiling or on all floors.
14. Deep seal or anti-vac to all fittings connected to the SVP or septic waste. All bends and junctions to have inspection 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 454 and 5255, cast iron to comply to BS5 497 table 6 grade C except ones in the driveway which shall comply to BS 550.
18. All manholes to have proper covers and frames shall be cast iron to comply to BS5 497 table 6 grade C except.
19. Storm water drain shall comply to BS 556.
20. Minimum slope of 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 other trades 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 5kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :

PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT

Plot L. R. No.:

Location : **REHABILITATION OF
FISHERIES OFFICE MALINDI**

Client:

STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY

Signature

Subject :

WORKING DRAWINGS.

Consultancy :

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Website : www.arprimconsultants.com

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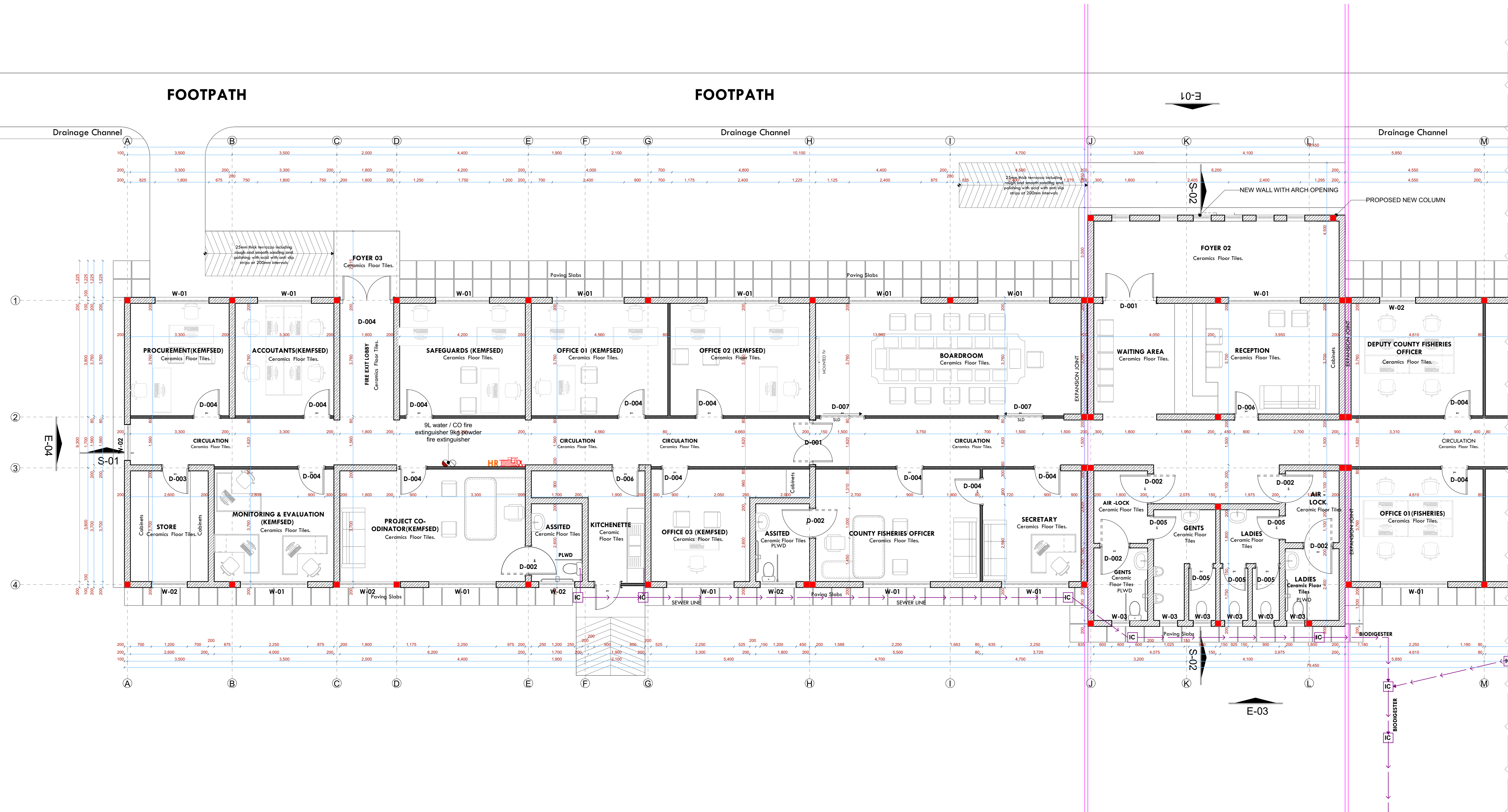
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PAVING BLOCKS DRIVE -WAY



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BLOCKS DRIVE -WAY

PAVING BLOCKS DRIVE -WAY



NOTES:

GENERAL

1. All measurements are shown in millimeters. Measurements should not be scaled off the drawing.
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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

CML

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. 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 transition plastered.
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 451 and S255. cast iron to comply to BS85 497 table 6 grade C except ones in the street which shall comply to BS85 497 table 6 grade C.
18. All inspection chambers covers and frames shall be cast iron to comply to BS85 497 table 6 grade C
19. Storm water drain shall comply to BS85 566.
20. Minimum slopes for 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

REVISIONS

[illegible]

Project :

PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT

Plot L. R. No.:

Location : **REHABILITATION OF
FISHERIES OFFICE MALINDI**

Client :

STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
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Signature

Subject :

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F. TUNDULI

B. Arch. (Hons)

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ate:NOV 2023

Job No . 2023/Nov/KILIFI

scale 1:100

07-001-006



07-001-007

WINDOW DESIGN

WINDOW DESIGN					
NAME	W-01	W-02	W-03	ARCH-01	
QUANTITY	21 N0	7 N0	6 N0	10 N0	
LOCATION	OFFICE SPACE	OFFICE SPACE	WASHROOM AREA	BOAT YARD SHED	
SPECIFICATIONS	2400X1700 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 andinternally; panes fixed with 6mm thick one way glass fixed withbeadings.	1200X 900 Powder coated aluminium windows; standard hollow sections;100 x 50 x 2.5mm thick RHS horizontal and vertical frame members frames mited at corners including all necessary intermediate reinforcing cleats/elements and all necessaryrubber glazing strips, couplings ironmongery including hinges, fasteners and stays, sliding rails	675X 600 Powder coated aluminium windows; standard hollow sections;100 x 50 x 2.5mm thick RHS horizontal and vertical frame members frames mited at corners including all necessary intermediate reinforcing cleats/elements and all necessaryrubber glazing strips, couplings ironmongery including hinges, fasteners and stays, sliding rails	2400x 1650 mm arch opening moulded and painted to architect's approval.	

DOOR LEAF DESIGN

DOOR LEAF DESIGN	
NAME	D001
QUANTITY	3 NO
LOCATION	MAIN ENTRANCE/BOAT YARD STORE
DESCRIPTION	1500 x 2400x50mm thick mvule louvred double leaf door comprising of 50x3mm louvres set at 45 degrees at 50mm centres , solid blocking for iron mongery (m/s) .
NAME	D002
QUANTITY	6 NO
LOCATION	PLWD WASHROOMS
DESCRIPTION	1100 x 2400x50mm mvule panelled double acting door: comprised of 200 x 50mm thick stiles, top and middle rail: 200 x 50mm thick bottom rail ;solid blocking to iron mongery (m/s) to door
NAME	D003
QUANTITY	7NO
LOCATION	STORE ROOM/KITCHEN/WASHROOM
DESCRIPTION	900 x 2400x50mm thick mvule louvred Single leaf door comprising of 50x3mm louvres set at 45 degrees at 50mm centres , solid blocking for iron mongery (m/s) .
NAME	D004
QUANTITY	3 NO
LOCATION	FIRE EXITS
DESCRIPTION	1100 x 2400x50mm fire rated door to supplier details;solid blocking to iron mongery (m/s) to door.
NAME	D005
QUANTITY	18 NO
LOCATION	DEPARTMENTAL OFFICE
DESCRIPTION	900 x 2400x50mm Purpose made powder coated Aluminium framed door with 4mm thick .
NAME	D006
QUANTITY	5 NO
LOCATION	DEPARTMENTAL OFFICE
DESCRIPTION	900 x 2400 Single Leaf single swing door solid blocking to iron mongery (m/s) to door.

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

8. All soils on cut embankment to be stabilized. The slope 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 approved local authority's specifications.
13. All services to be installed in the floor.
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 beneath buildings and driveways to be encased in 150mm concrete surround.
17. All underground drainage to be installed in UPVC or to comply to BS5 451 and 5255, cast iron to comply to BS 857 497 table 6 grade C except ones in the cast iron manholes.
18. All inspection chamber covers and frames shall be cast iron to comply to BS 857 497 table 6 grade C except.
19. Storm water drain shall comply to BS 555.
20. Minimum cover to drain shall be 150mm.
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
30. provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :

**PROPOSED KENYA MARINE
FISHERIES AND SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location : **REHABILITATION OF
FISHERIES OFFICE MALINDI**

Client :

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

Signature

Subject

WORKING DRAWINGS.

Consultancy

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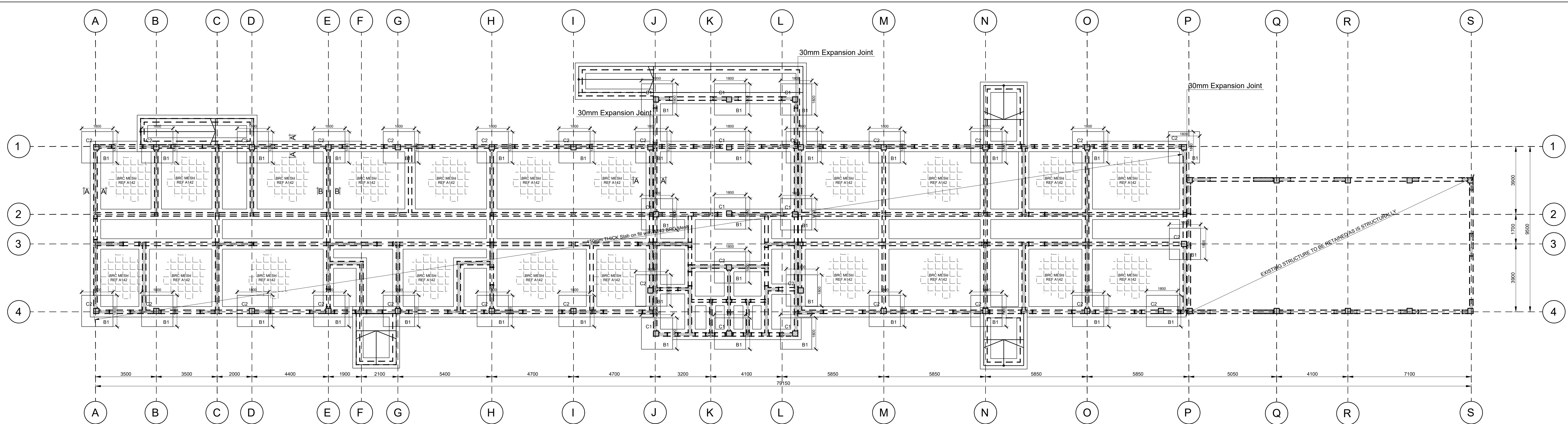
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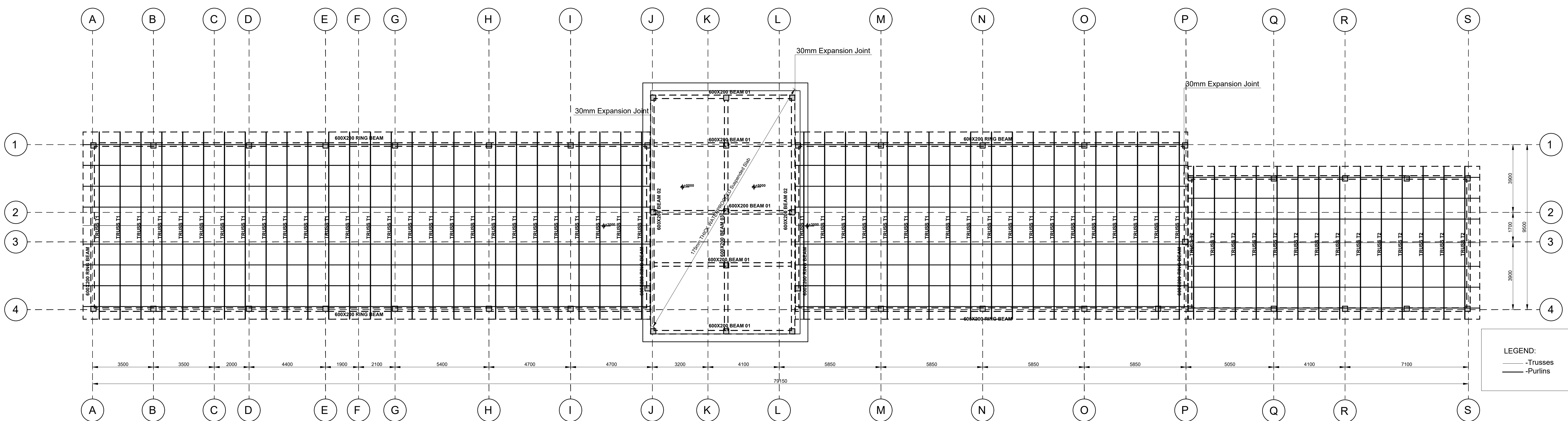
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07-001-008

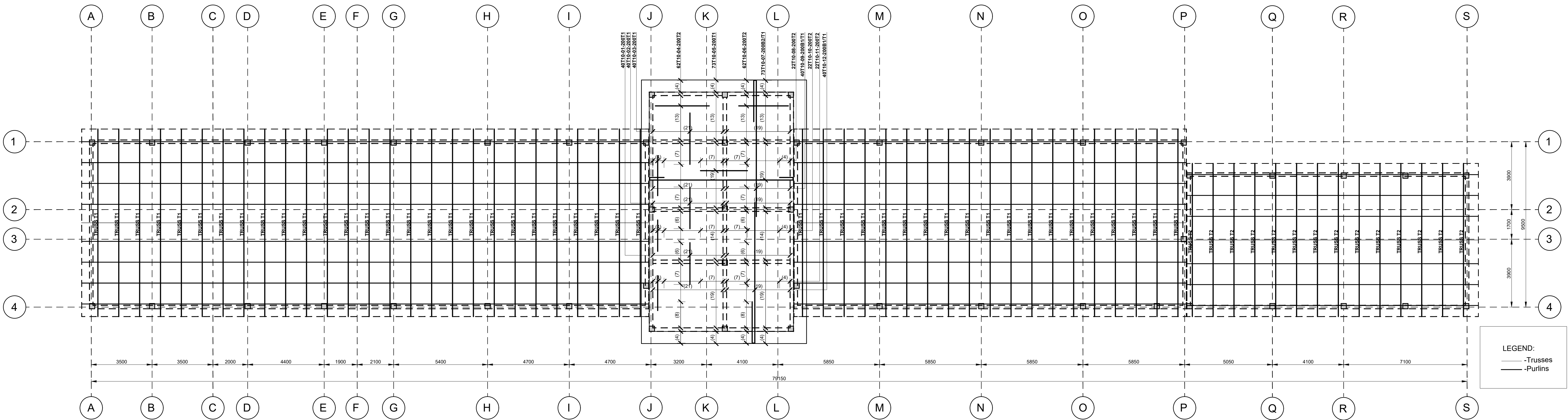
PROPOSED RENOVATIONS OF MALINDI FISHERIES OFFICE BLOCK STRUCTURAL DRAWINGS		
PAGE	DRAWING NUMBER	DRAWING TITLE
1	07-002S-001	DRAWING LIST
2	07-002S-002	FOUNDATION AND GROUND FLOOR LAYOUT, ROOF SLAB LAYOUT AND RC DETAILS
3	07-002S-003	BASES AND COLUMN DETAILS, EXPANSION JOINT AND WATERPROOFING DETAILS
4	07-002S-004	CIVIL WORKS-SITE LAYOUT
5	07-002S-005	CIVIL WORKS-TYPICAL ROAD SECTION AND DRAIN DETAILS
6	07-002S-006	CIVIL WORKS-INSPECTION CHAMBER DETAILS
7	07-002S-007	CIVIL WORKS-SOAK-AWAY DRAIN, HEADWALL AND WINGWALL DETAILS
8	07-002S-008	CIVIL WORKS-BIODIGESTER DETAILS (SHEET1)
9	07-002S-009	CIVIL WORKS-BIODIGESTER DETAILS (SHEET 2)



FOUNDATION AND GROUND FLOOR LAYOUT
(SCALE 1:100)



ROOF SLAB LAYOUT
(SCALE 1:100)



ROOF SLAB RC DETAILS
(SCALE 1:100)

CONSULTANT:-
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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 RENOVATIONS OF MALINDI FISHERIES OFFICE BLOCK.
MALINDI, KILIFI COUNTY.**

DRAWING TITLE:-
**PROPOSED RENOVATIONS OF MALINDI FISHERIES OFFICE BLOCK -
FOUNDATION AND GROUND FLOOR LAYOUT, ROOF SLAB LAYOUT AND RC DETAILS**

NOTES

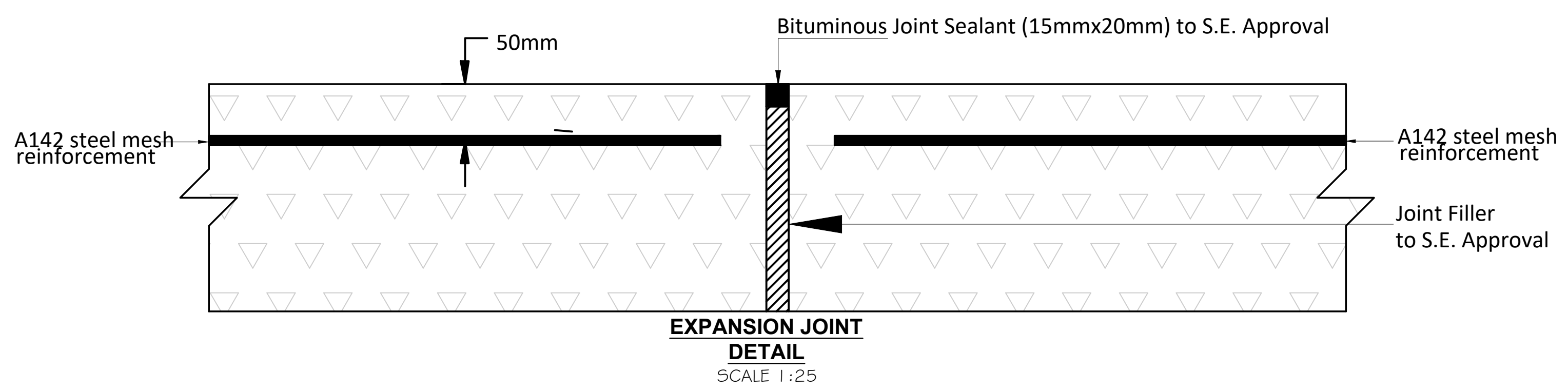
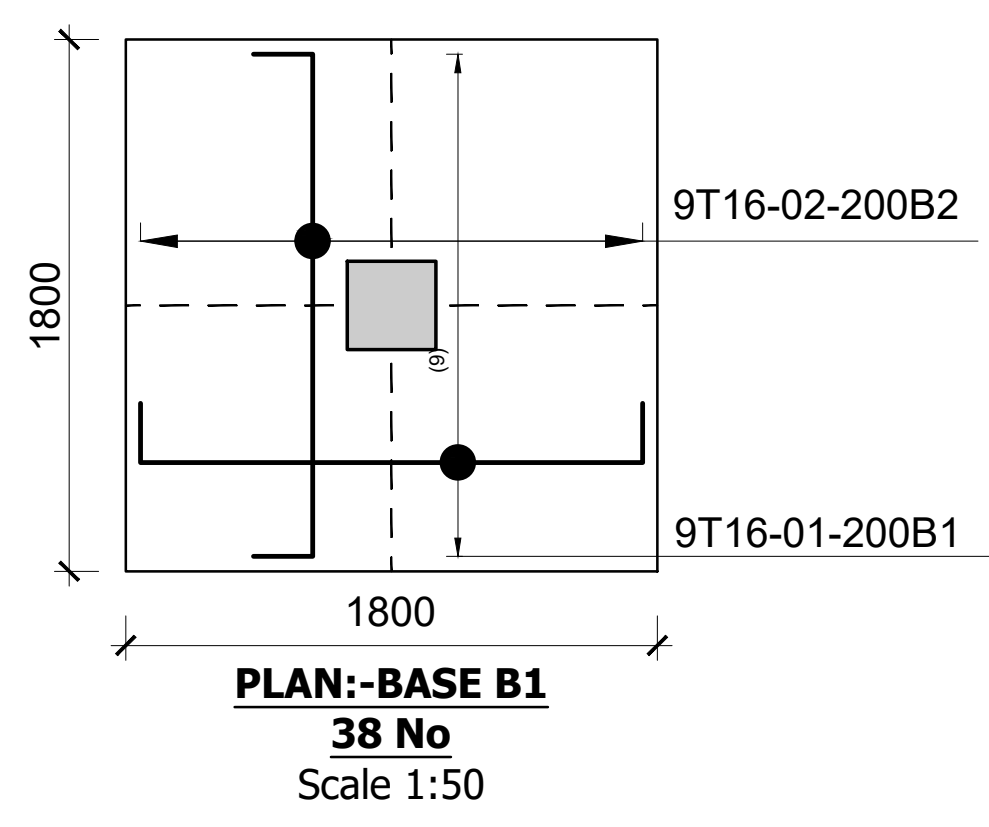
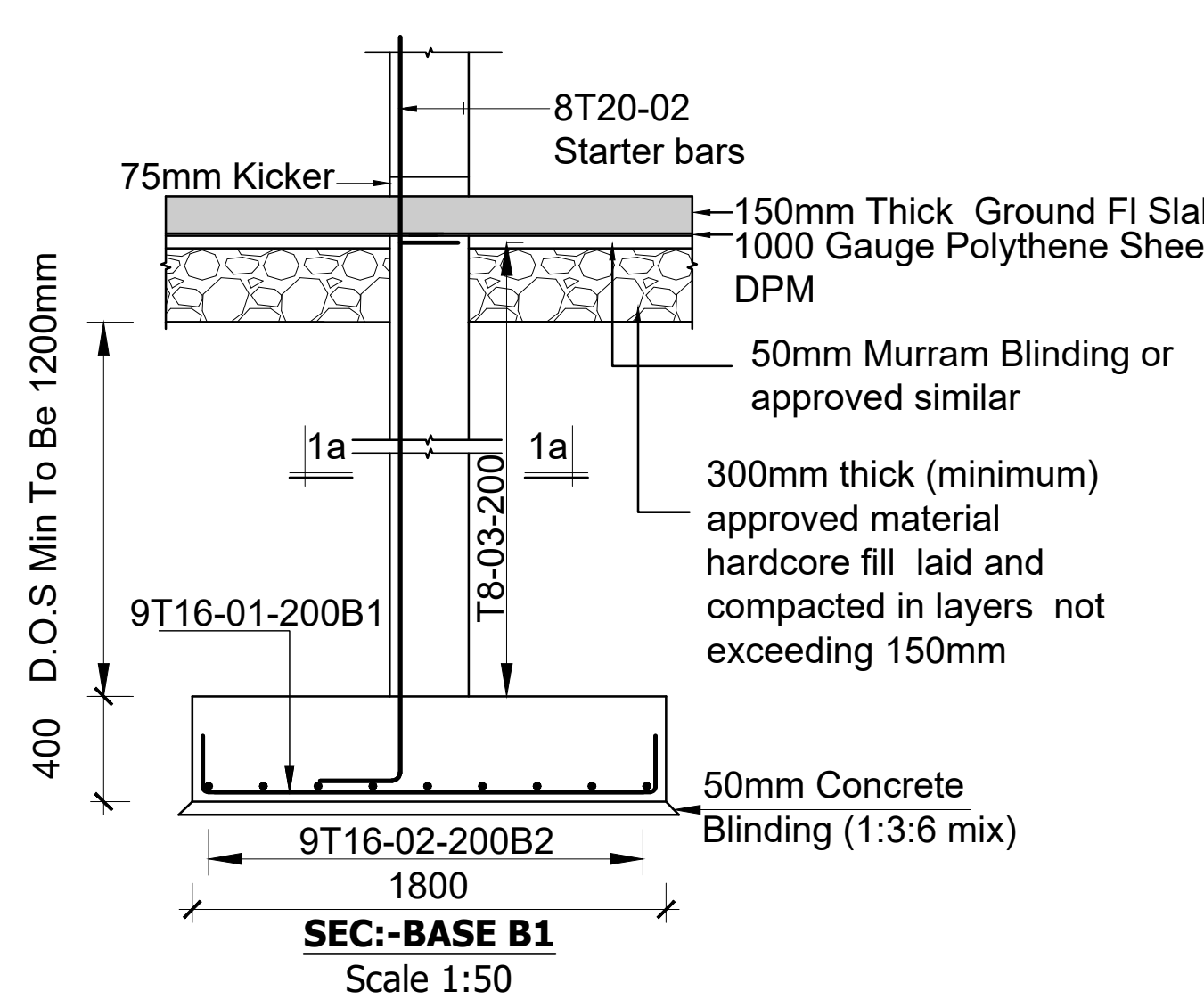
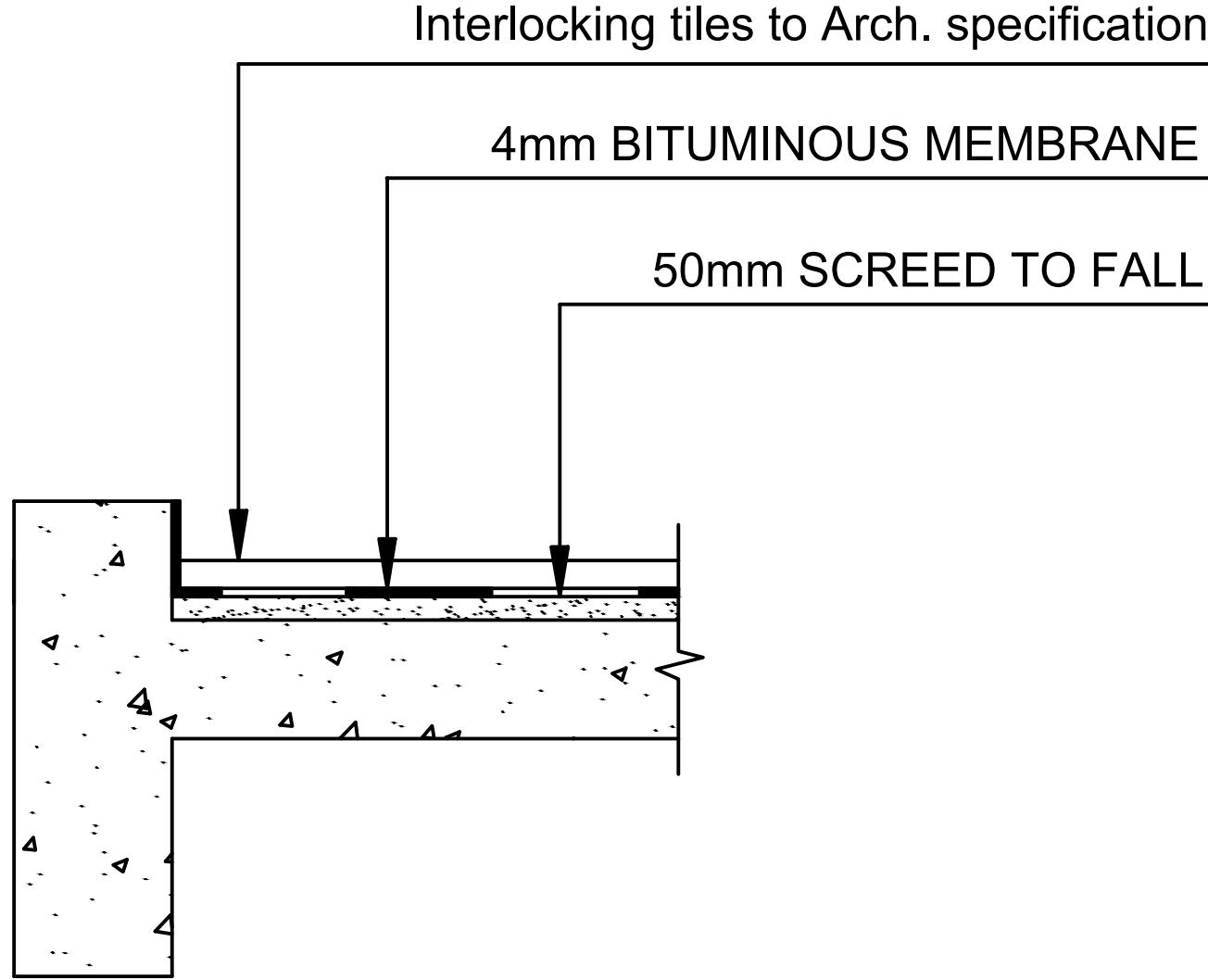
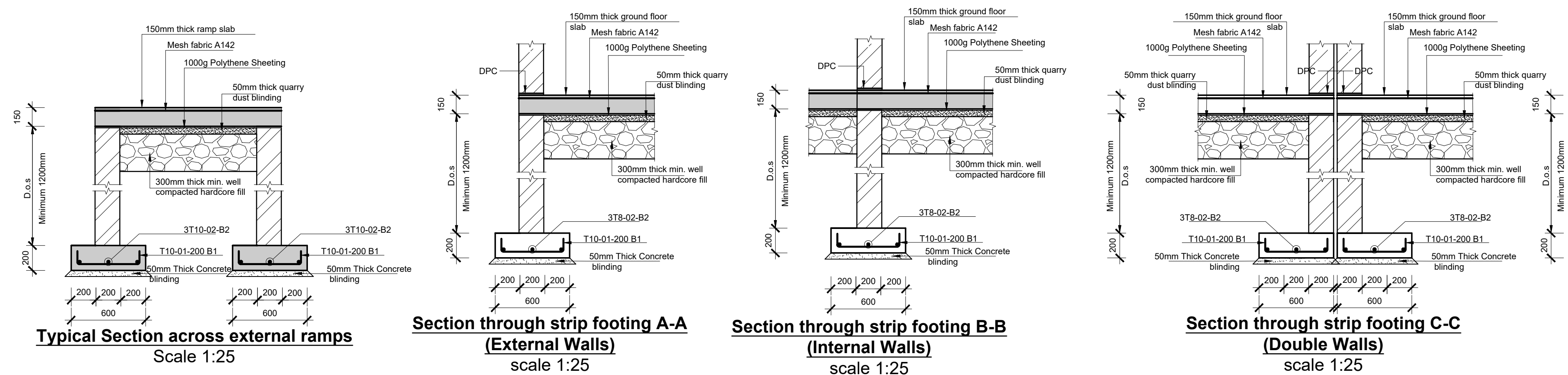
1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.
2. All dimensions are in millimetres unless specified otherwise.
3. All levels are indicated in mm unless specified otherwise.
4. Minimum cover to all reinforcement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

- Stairs, Slabs & Walls = 25mm
- Beams (main bars) = 25mm
- Post-tensioned beams = 40mm
- Columns (main bars) = 30mm
- Foundations = 50mm
- 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.

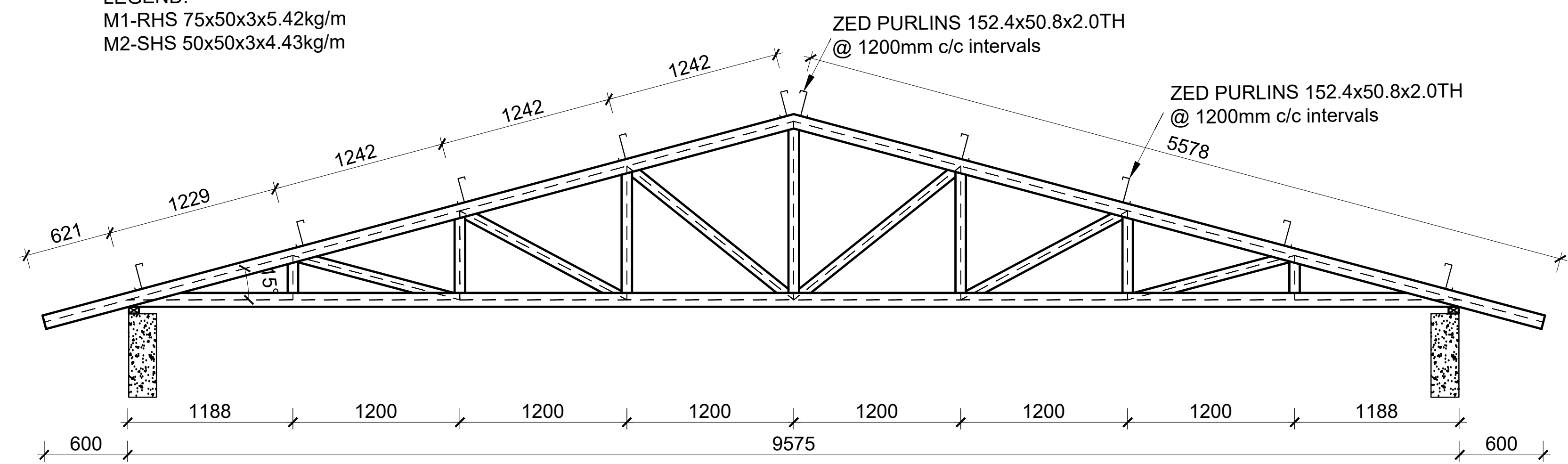
- 8. Safe Bearing Pressure taken to be 150 KN/m².
- 9. Nominal aggregate size to be 20mm.
- 10. Structural concrete to be Class 25 unless stated otherwise.
- 11. Masonry Strength to be 7.0 N/mm².

Designed by	BMN	Rev	Description	By	Date
Drawn by	BMN	C			
Checked by	H.O.H.	C			
Scale	AS SHOWN	B			
		A			

DRAWING NO: 07-002S-002

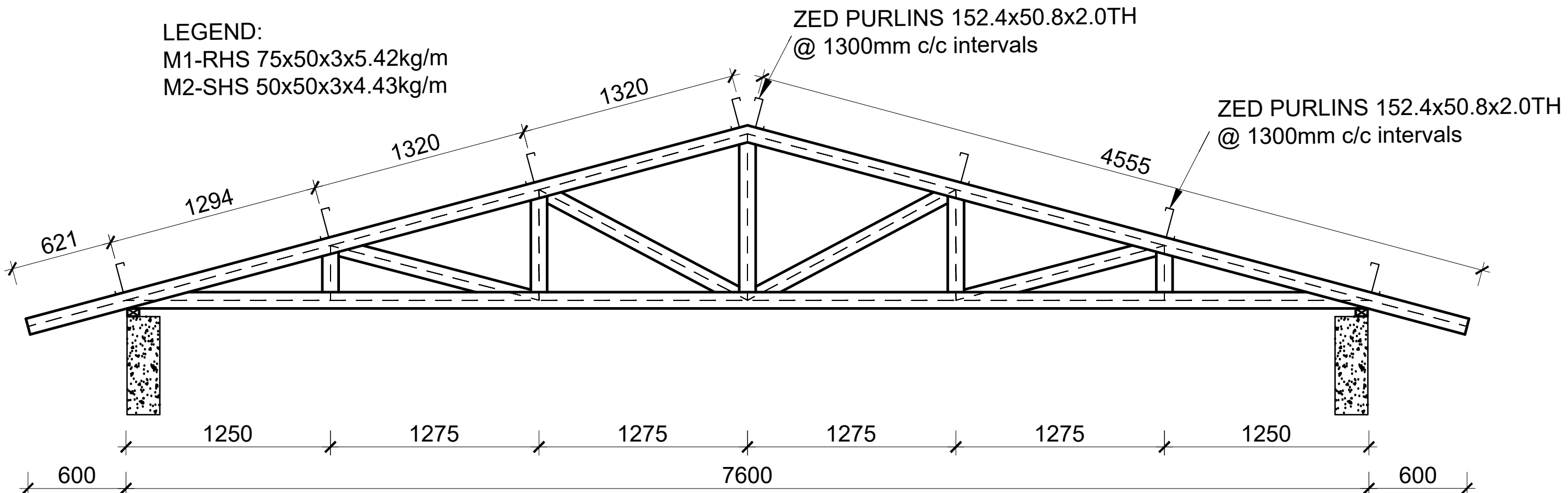


LEGEND:
M1-RHS 75x50x3x5.42kg/m
M2-SHS 50x50x3x4.43kg/m



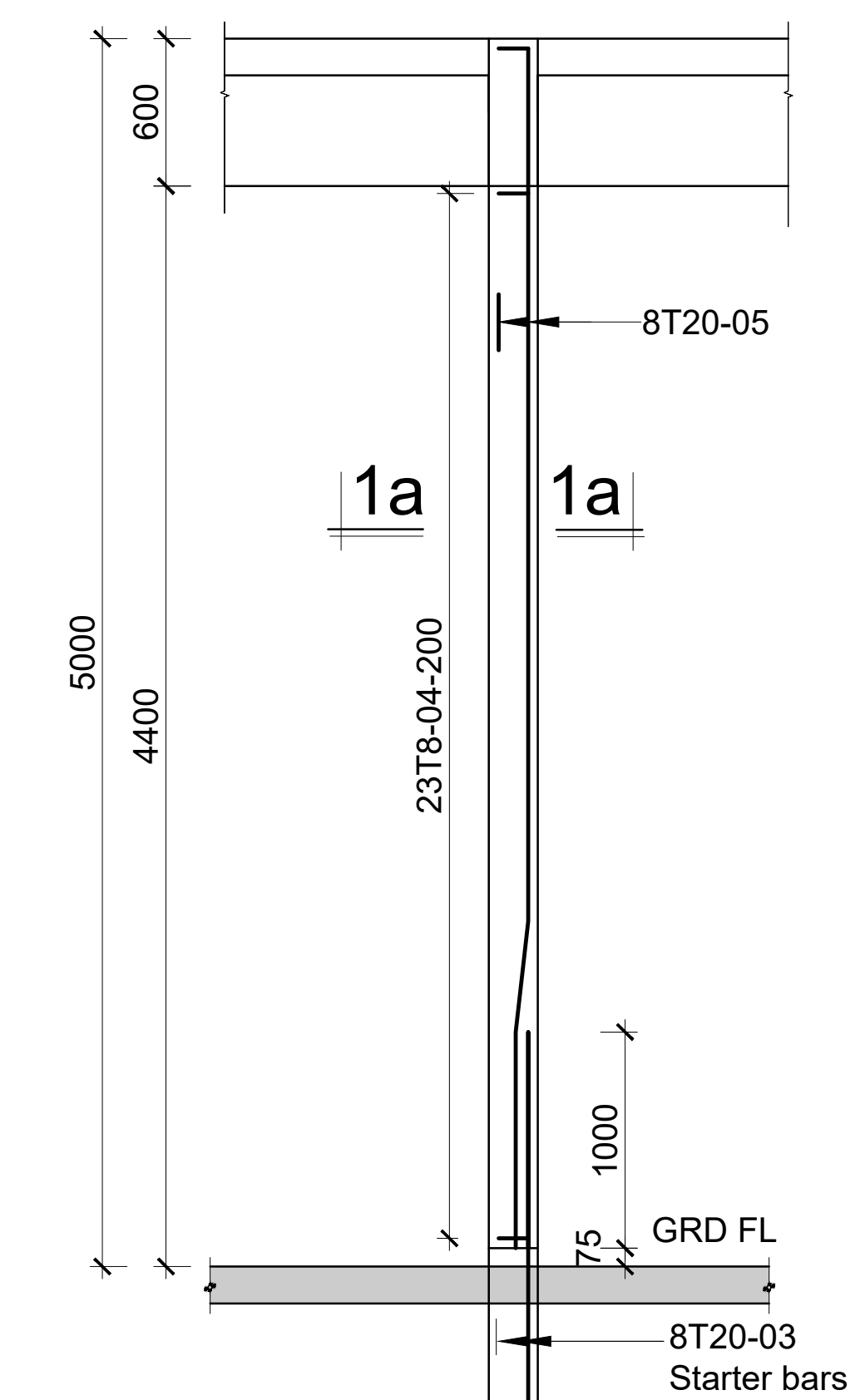
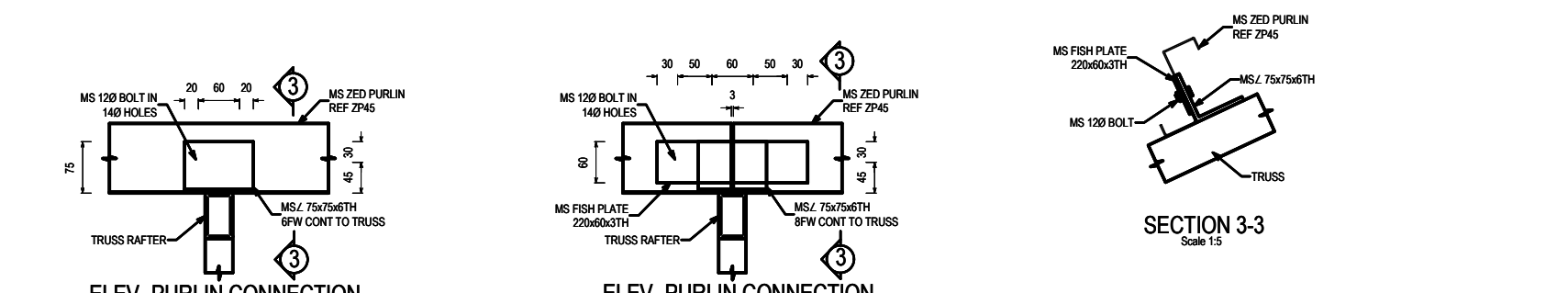
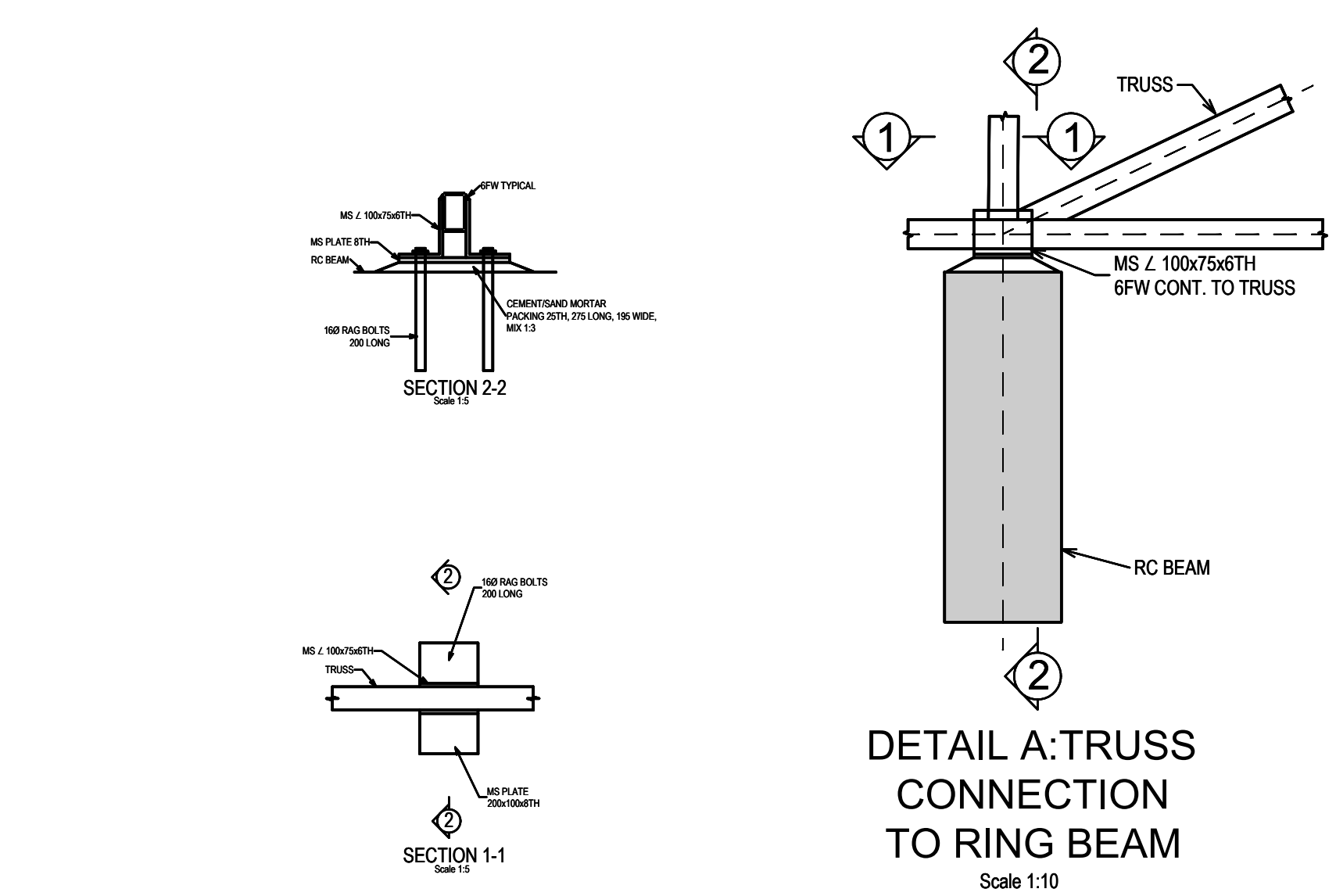
Truss Externals: Steel Members 75x50x3 RHS
Truss Internals: Steel Members 50x50x3 RHS

TRUSS T1
46 No.
Scale 1:50

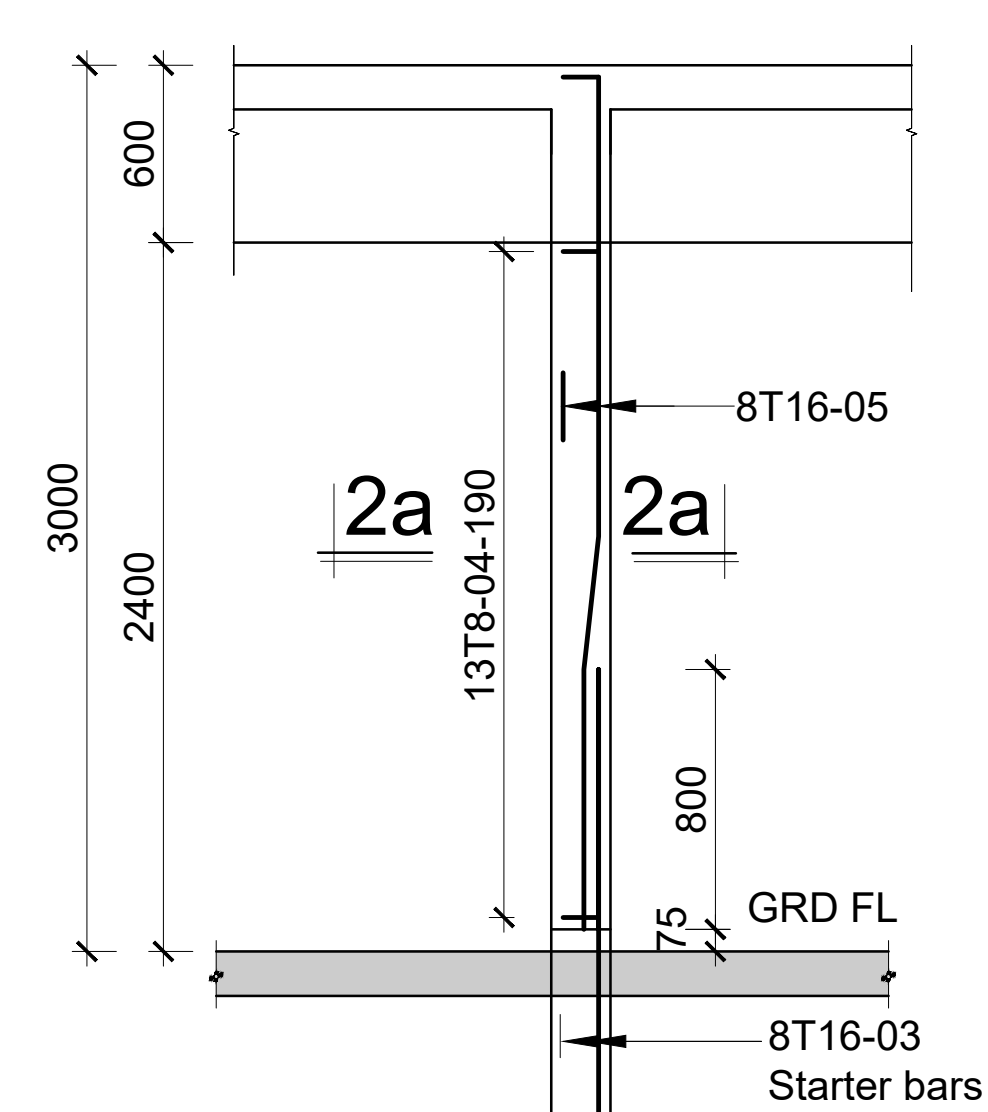


Truss Externals: Steel Members 75x50x3 RHS
Truss Internals: Steel Members 50x50x3 RHS

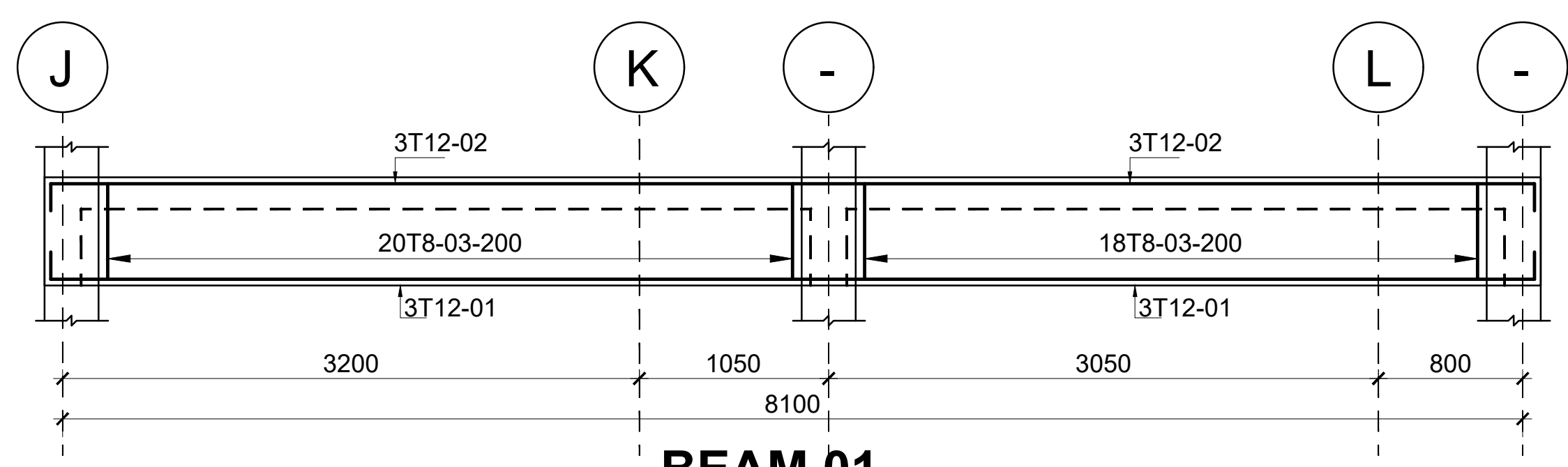
TRUSS T2
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Scale 1:50



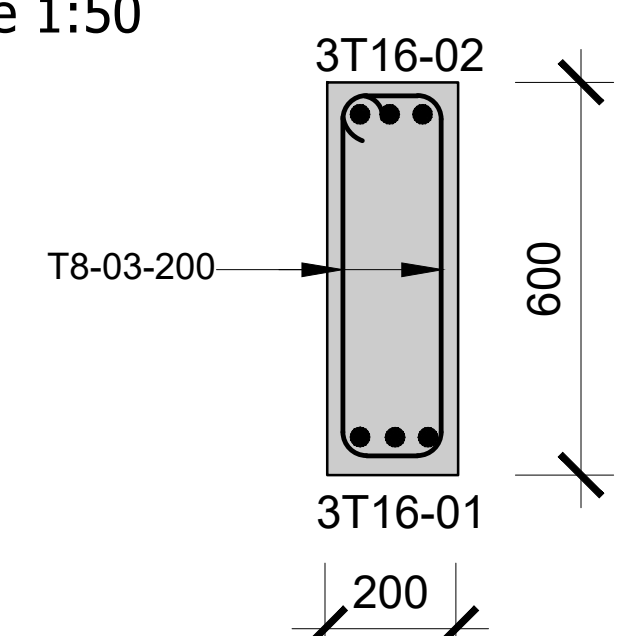
COLUMN C1
2 NO.THUS
300X300
Scale 1:50



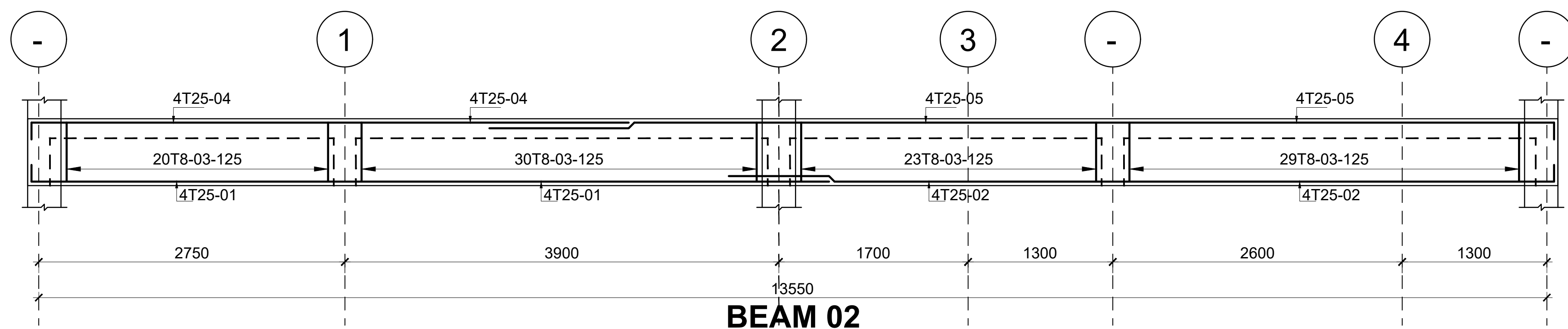
COLUMN C2
28 NO.THUS
300X300
Scale 1:50



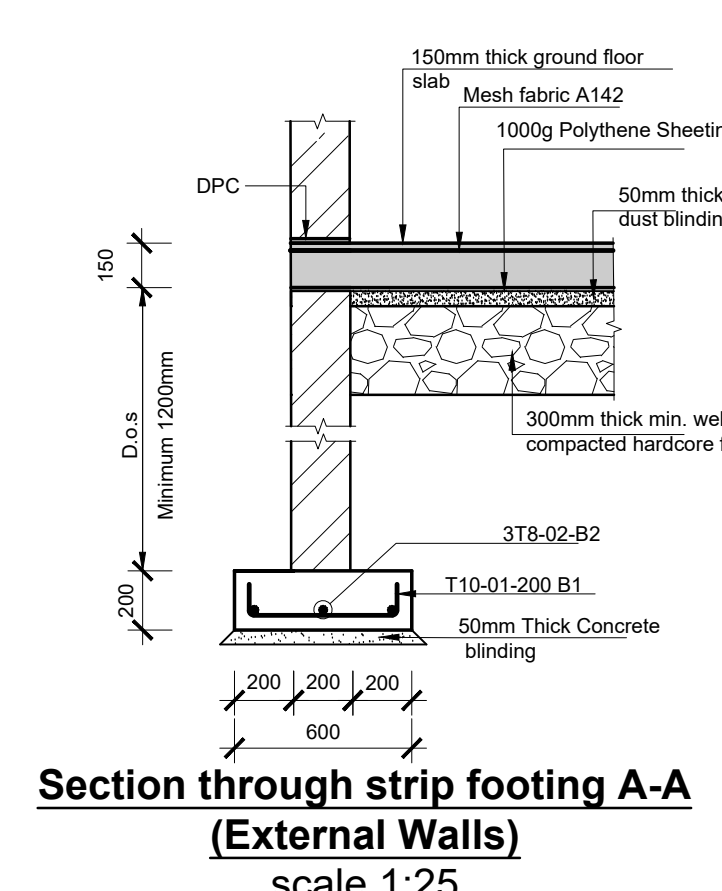
BEAM 01
600X200
SCALE 1:50



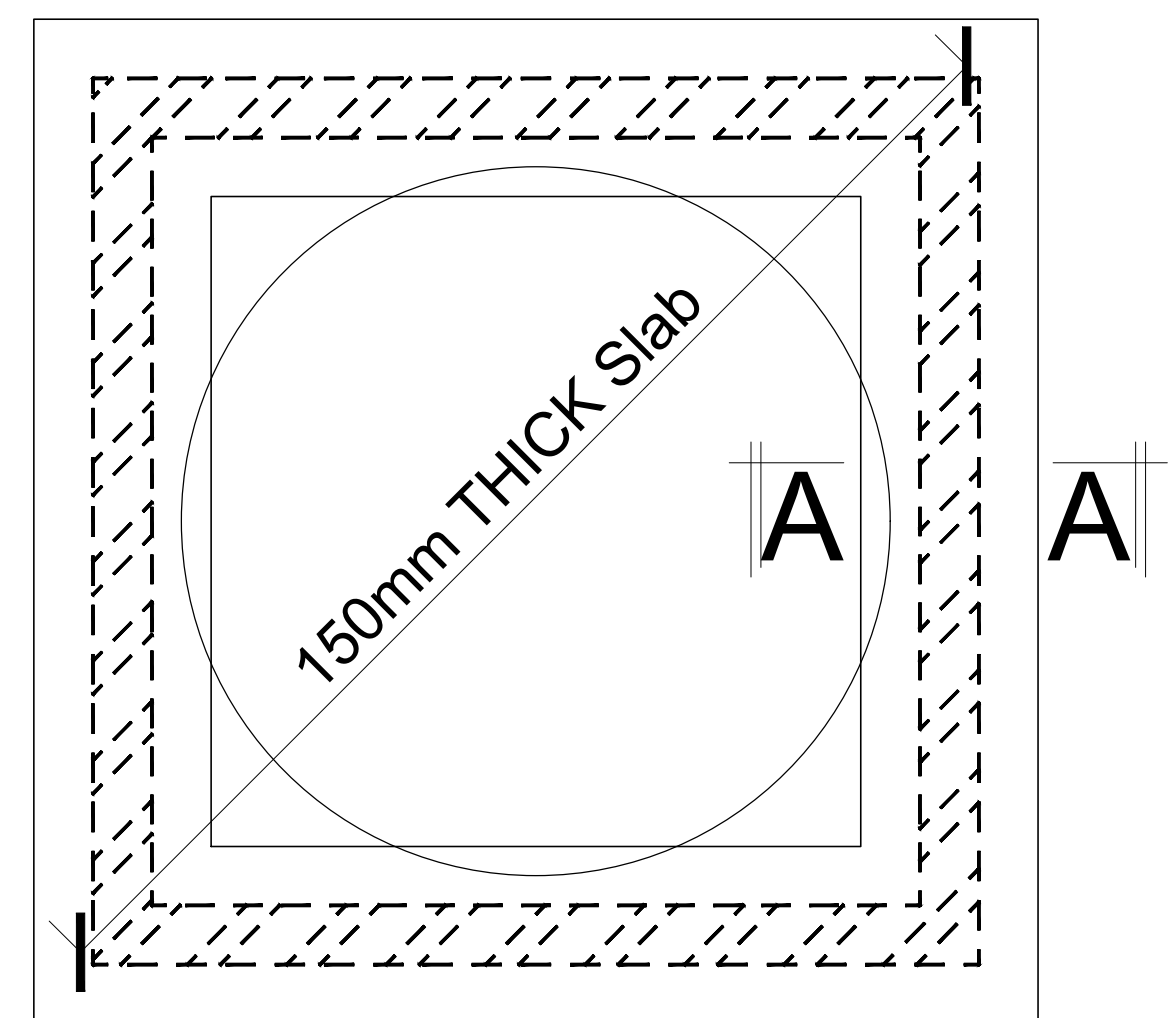
TYPICAL RING
BEAM SECTION
scale 1:25



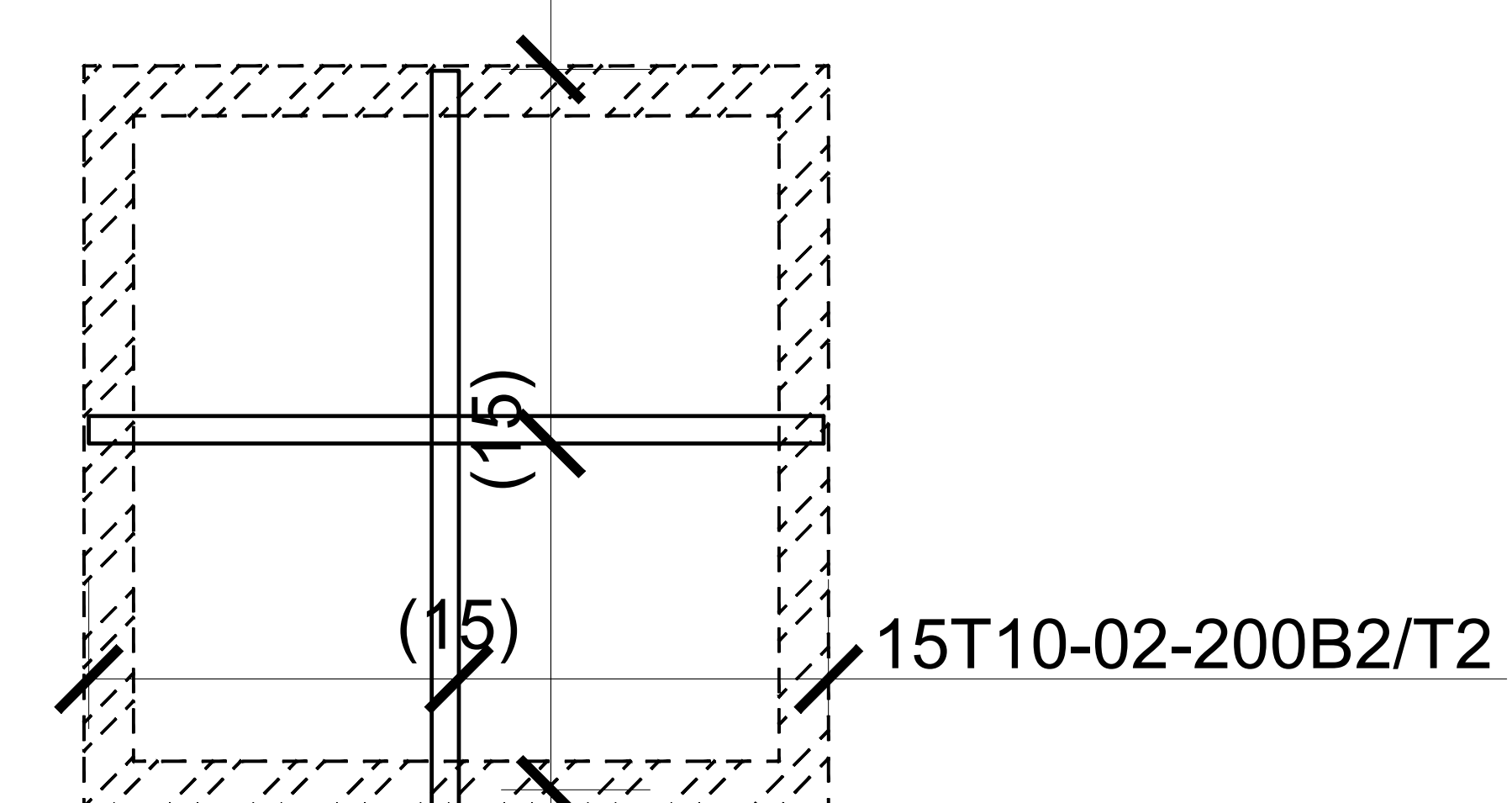
BEAM 02
600X200
SCALE 1:50



Section through strip footing A-A
(External Walls)
scale 1:25



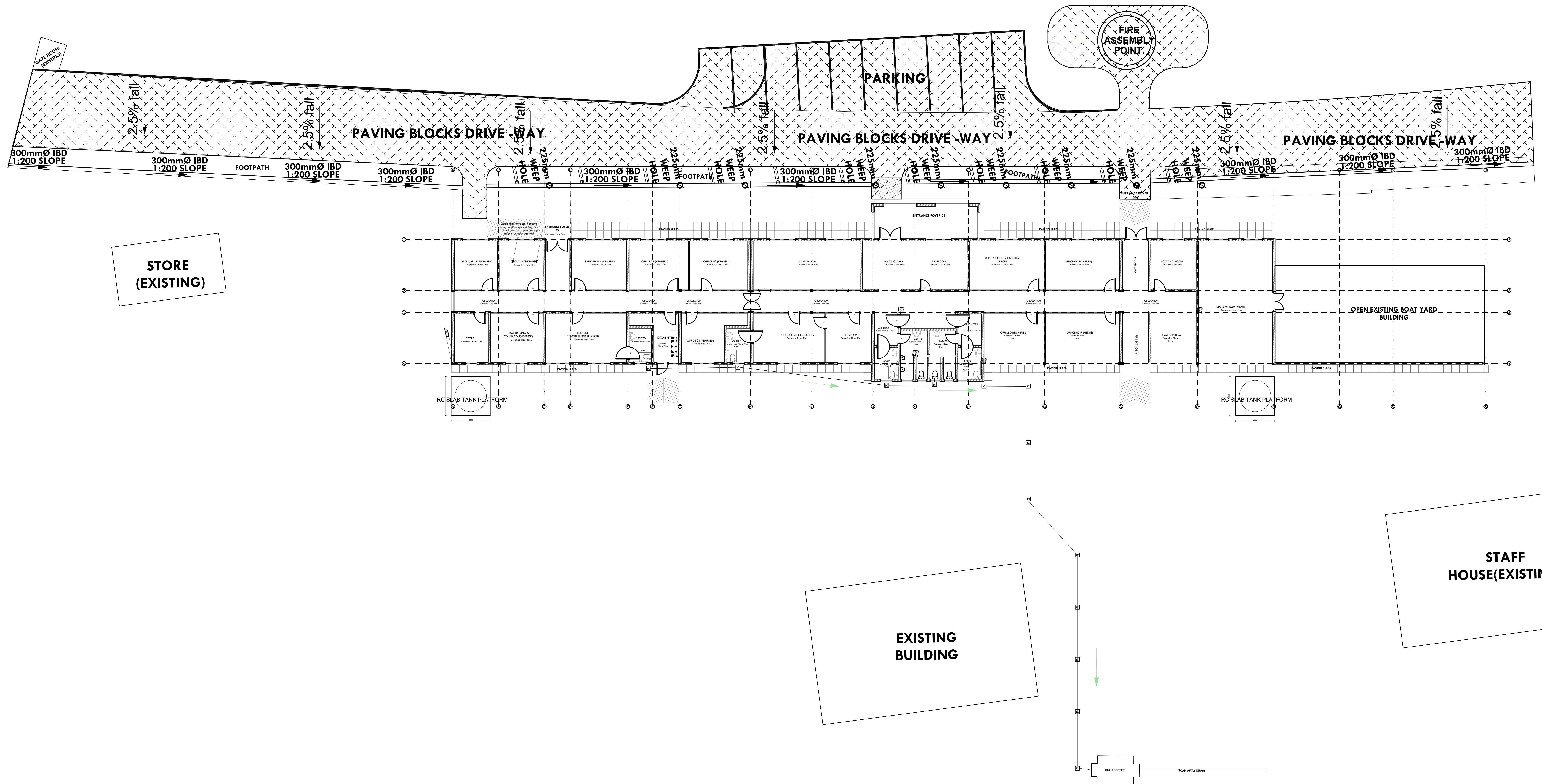
RC SLAB TANK PLATFORM
2 No.
Scale: 1:25



RC SLAB TANK PLATFORM
REINFORCEMENT DETAILS
Scale: 1:25

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:- PROPOSED RENOVATIONS OF MALINDI FISHERIES OFFICE BLOCK. MALINDI, KILIFI COUNTY.	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 mm unless specified otherwise. 4. Minimum cover to all reinforcement to be: Stairs, Slabs & Walls = 25mm Beams (main bars) = 25mm Post-tensioned beams = 40mm Columns (main bars) = 30mm Foundations = 50mm 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 150 KN/m². 9. Nominal aggregate size to be 20mm. 10. Structural concrete to be Class 25 unless stated otherwise. 11. Masonry Strength to be 7.0 N/mm².																														
	DRAWING TITLE:- PROPOSED RENOVATIONS OF MALINDI FISHERIES OFFICE BLOCK - BASES AND COLUMN DETAILS, EXPANSION JOINT AND WATERPROOFING DETAILS																																	
	<table><tr><td>Designed by</td><td>BMN</td><td>Rev</td><td>Description</td><td>By</td><td>Date</td></tr><tr><td>Drawn by</td><td>BMN</td><td>D</td><td></td><td></td><td></td></tr><tr><td>Checked by</td><td>H.O.H.</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>				Designed by	BMN	Rev	Description	By	Date	Drawn by	BMN	D				Checked by	H.O.H.	C				Scale	AS SHOWN	B						A			
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<div><div></div><div>DRAWING NO: 07-002S-003</div></div>																																		

DRAWING NO: 07-002S-003



CONSULTANT:-

ARPRIM CONSORTIUM

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Nairobi, KENYA.

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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 (KEMFSED)
NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.

PROJECT TITLE:-

PROPOSED RENOVATIONS OF MALINDI FISHERIES OFFICE BLOCK.
MALINDI, KILIFI COUNTY.

NOTES

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3. All levels are indicated in mm unless specified otherwise.

4. Minimum cover to all reinforcement to be:

Stairs, Slabs & Walls

Beams (main bars)

Post-tensioned beams

Columns (main bars)

Foundations

= 25mm

= 25mm

= 40mm

= 30mm

= 50mm

5. Maximum tolerance on concrete cover is +/- 5mm.

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7. Minimum laps to all bars to be 500 unless
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8. Safe Bearing Pressure taken to be 150 KN/m².

9. Nominal aggregate size to be 20mm.

10. Structural concrete to be Class 25 unless stated otherwise.

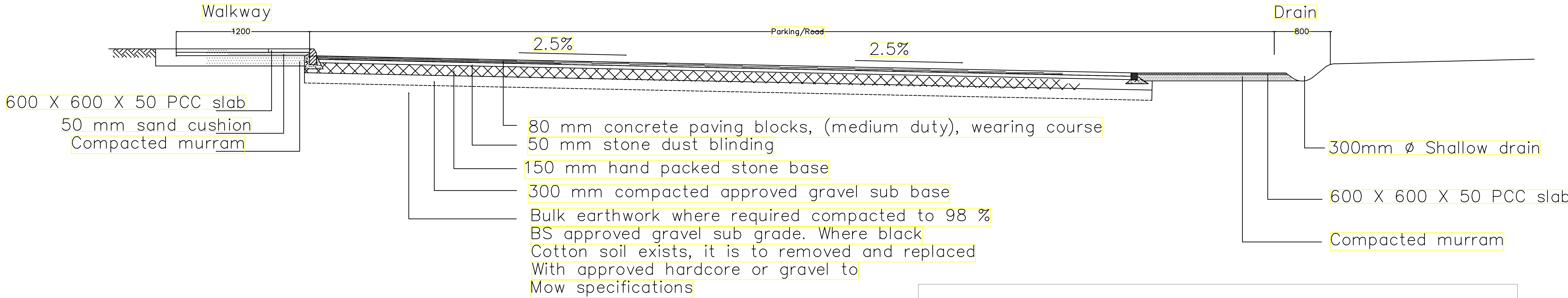
11. Masonry Strength to be 7.0 N/mm².

DRAWING TITLE:-

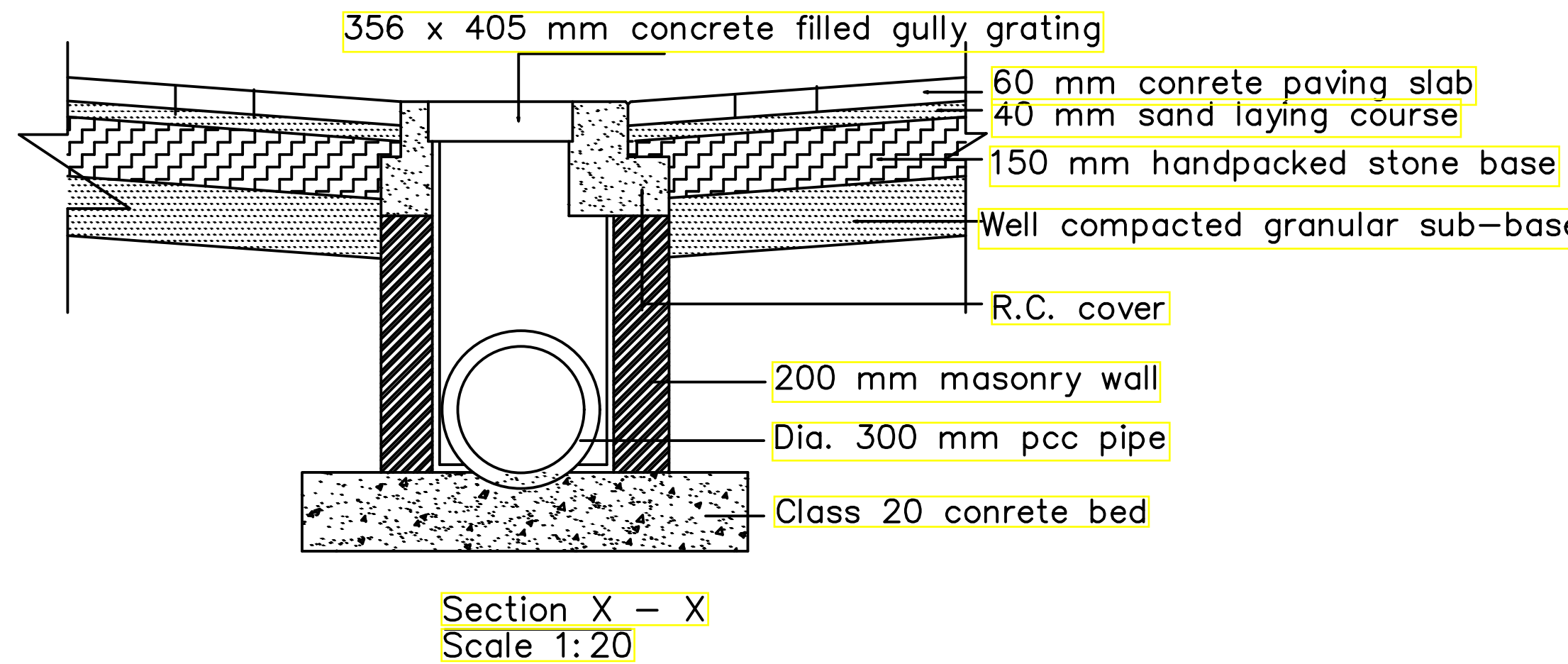
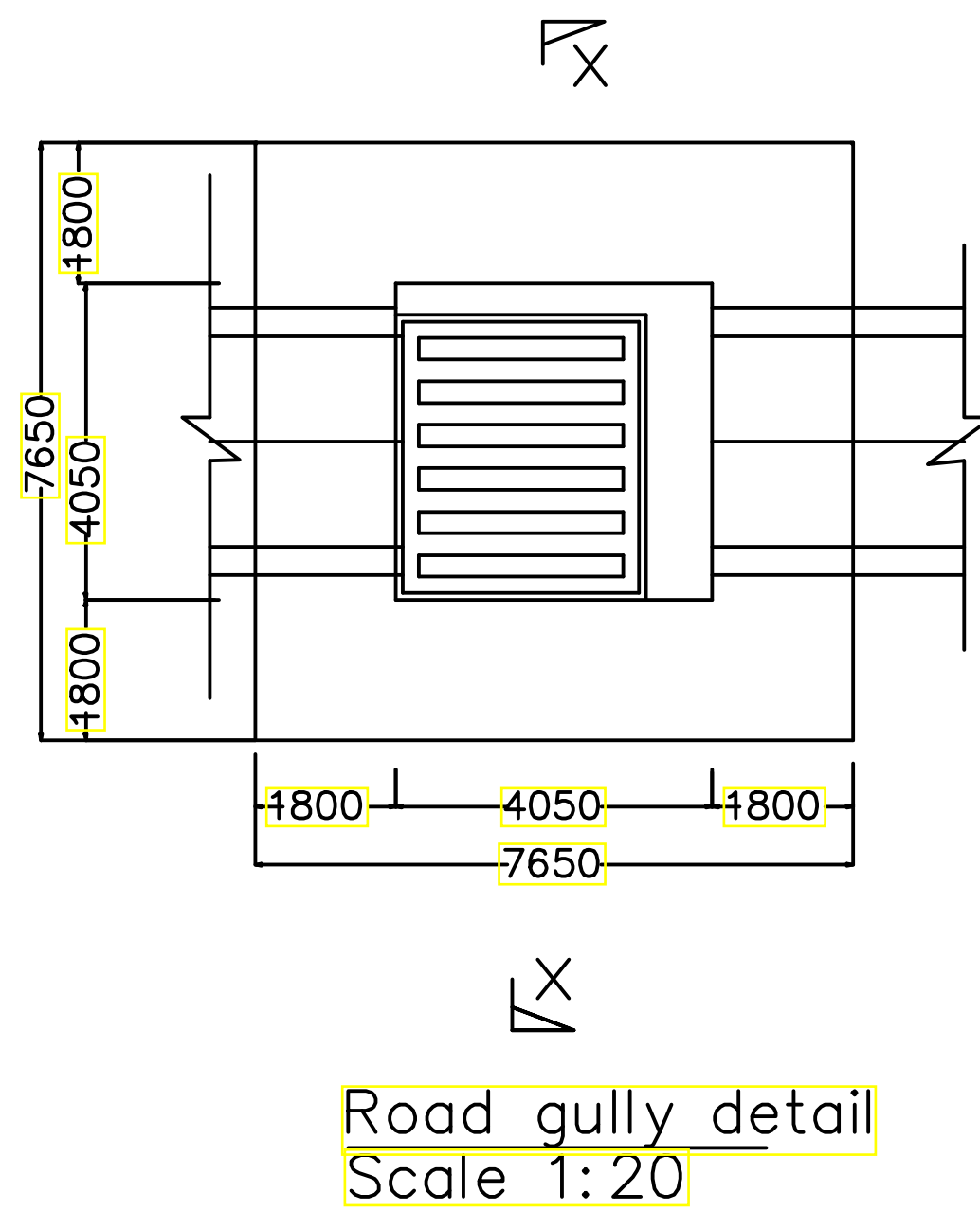
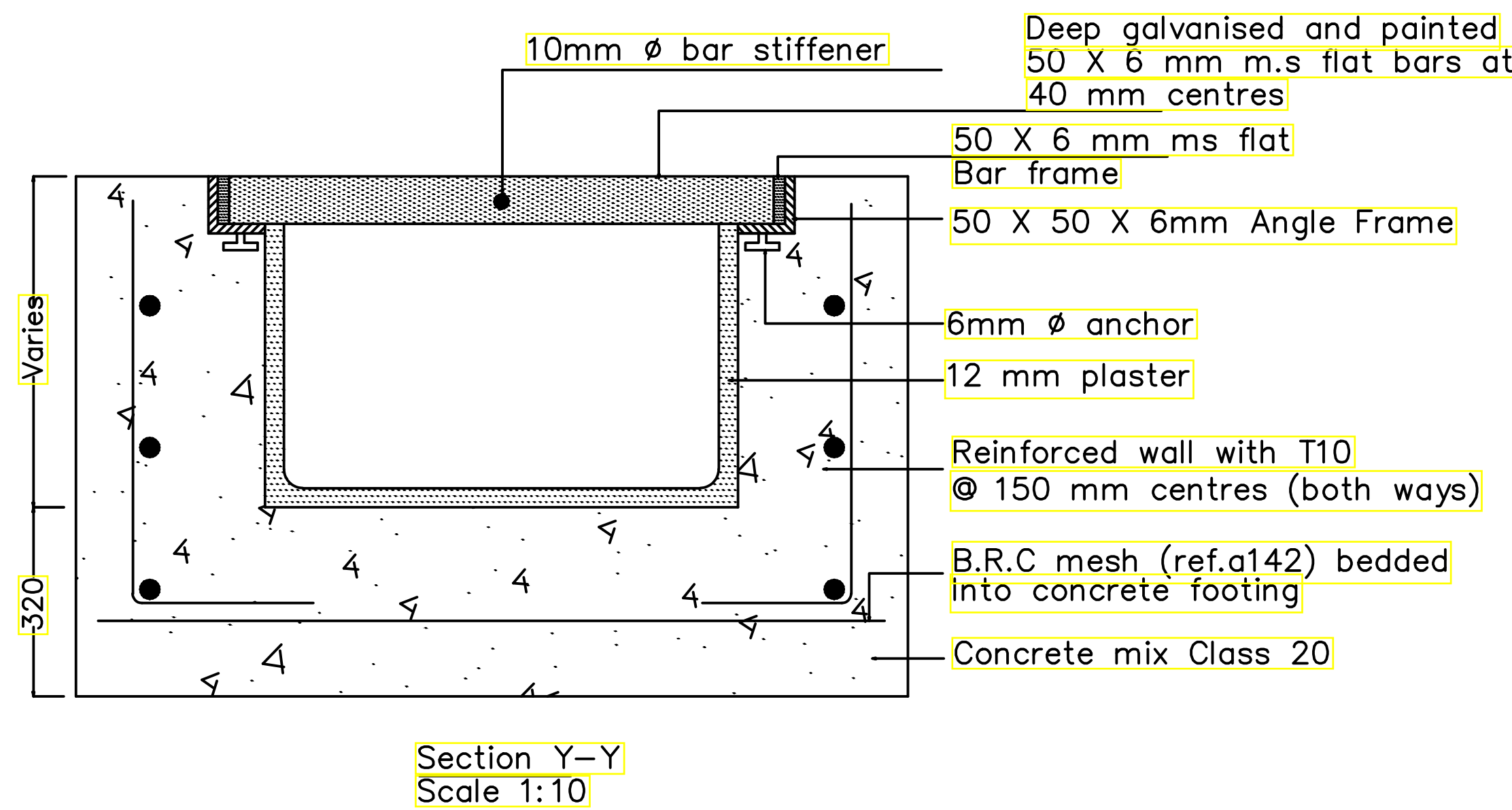
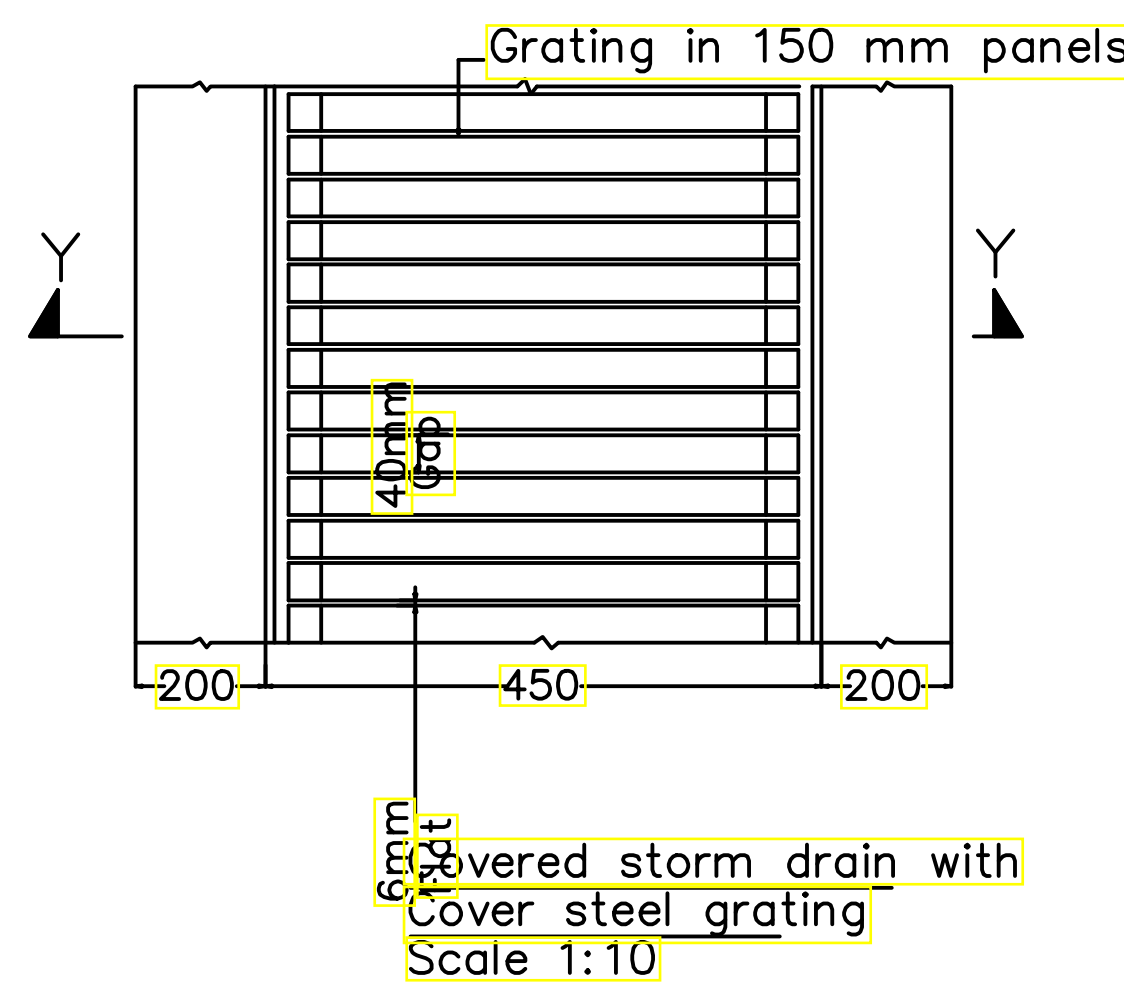
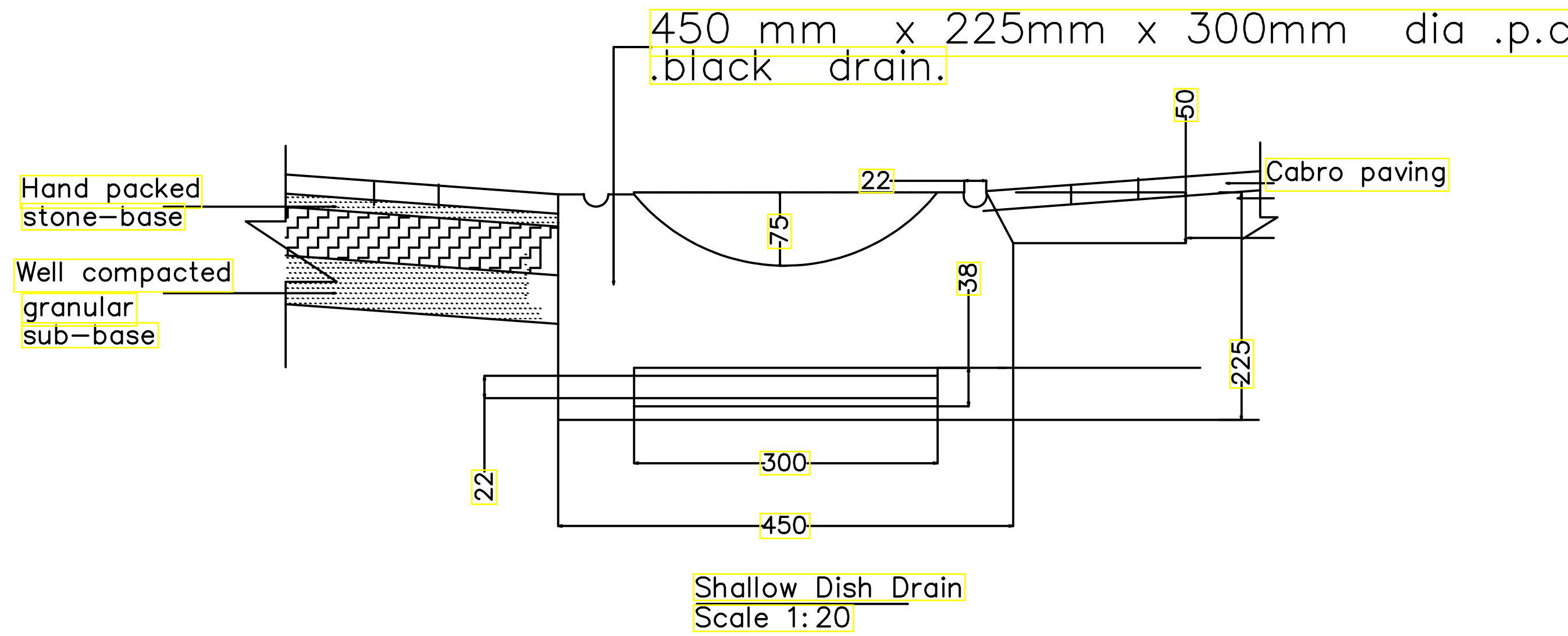
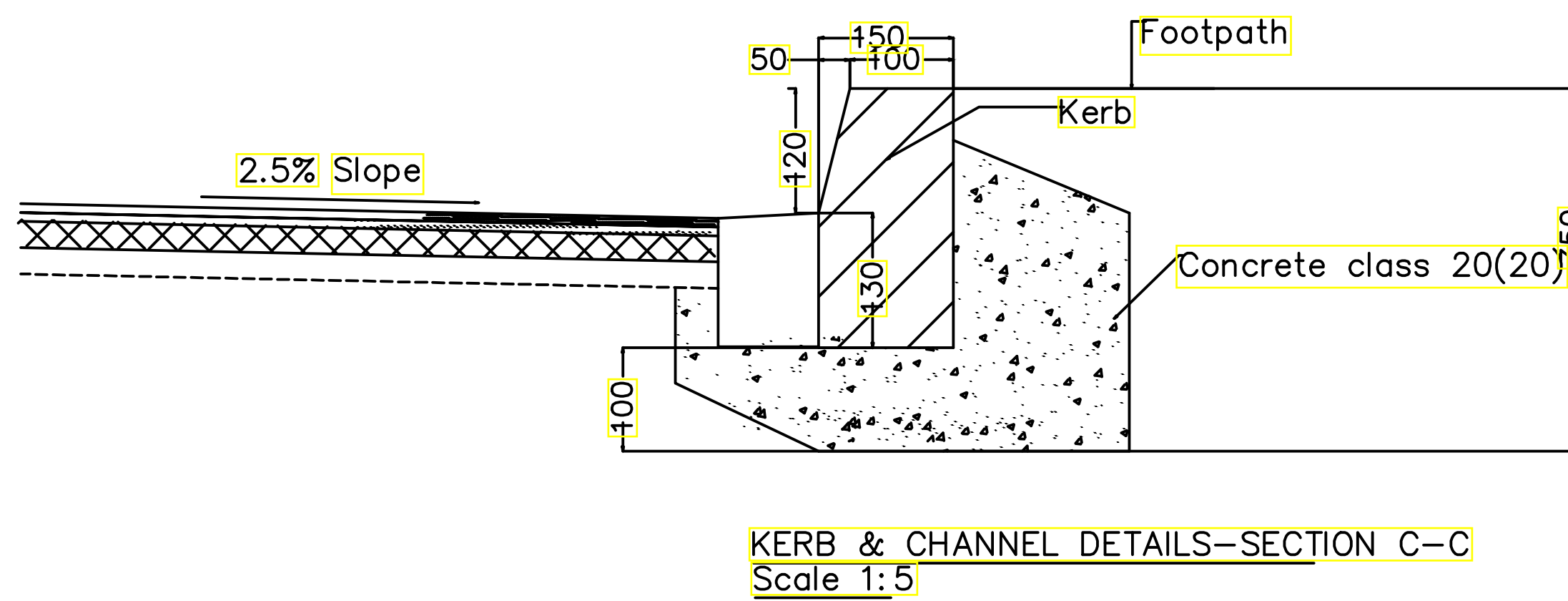
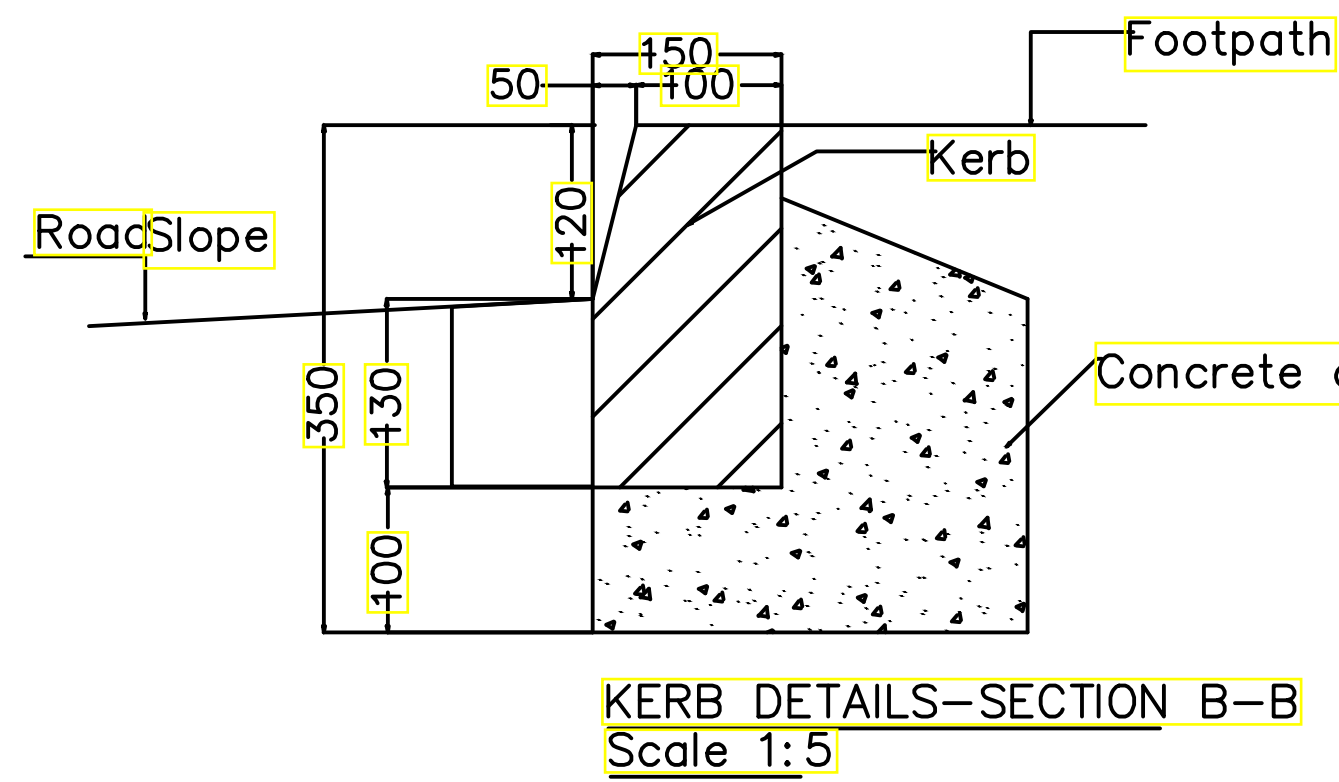
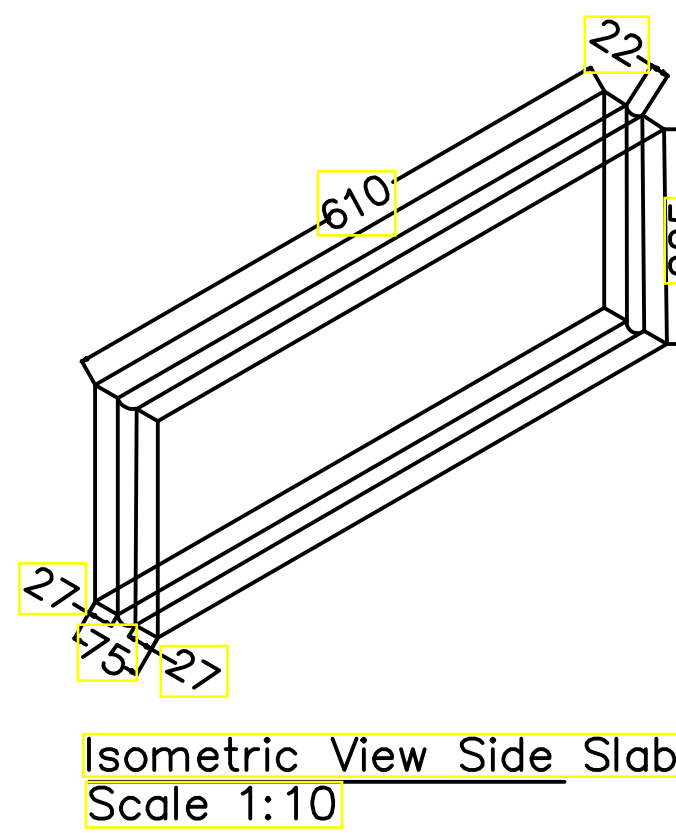
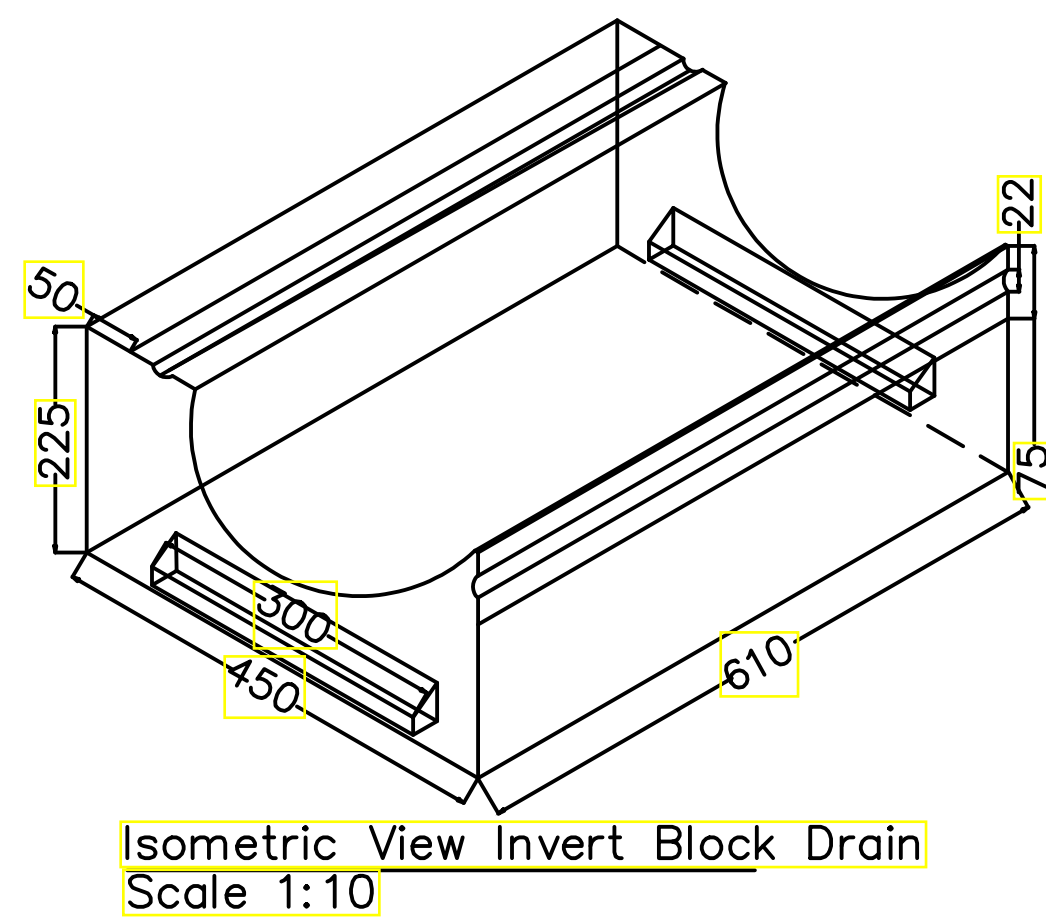
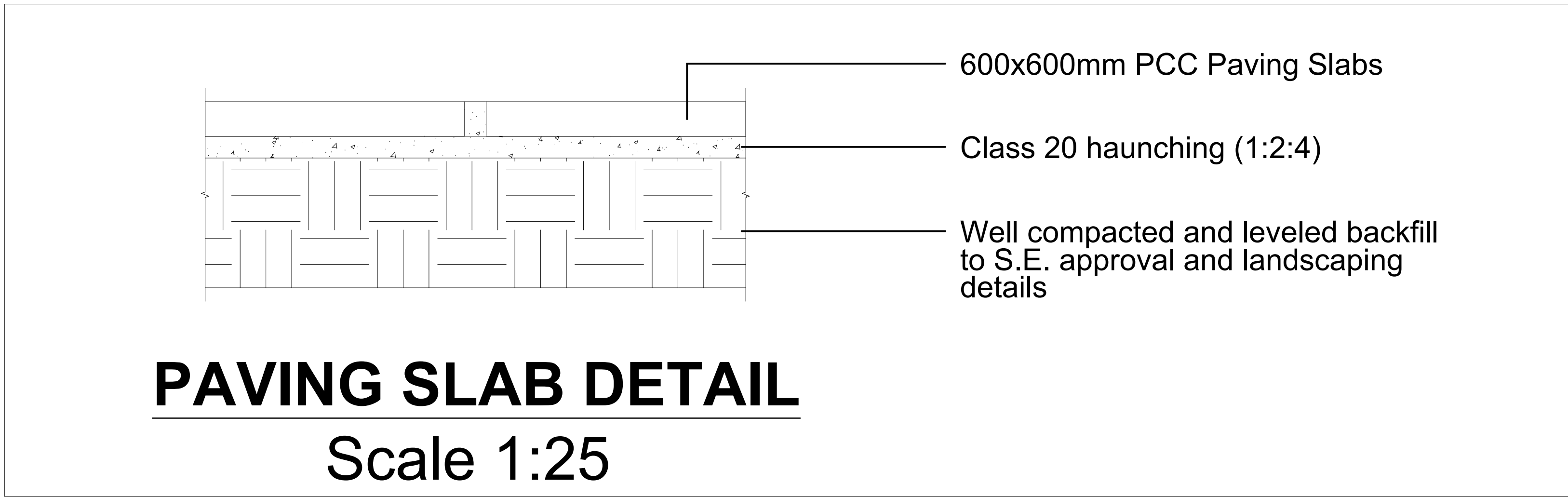
PROPOSED RENOVATIONS OF MALINDI FISHERIES OFFICE BLOCK -
CIVIL WORKS-SITE LAYOUT

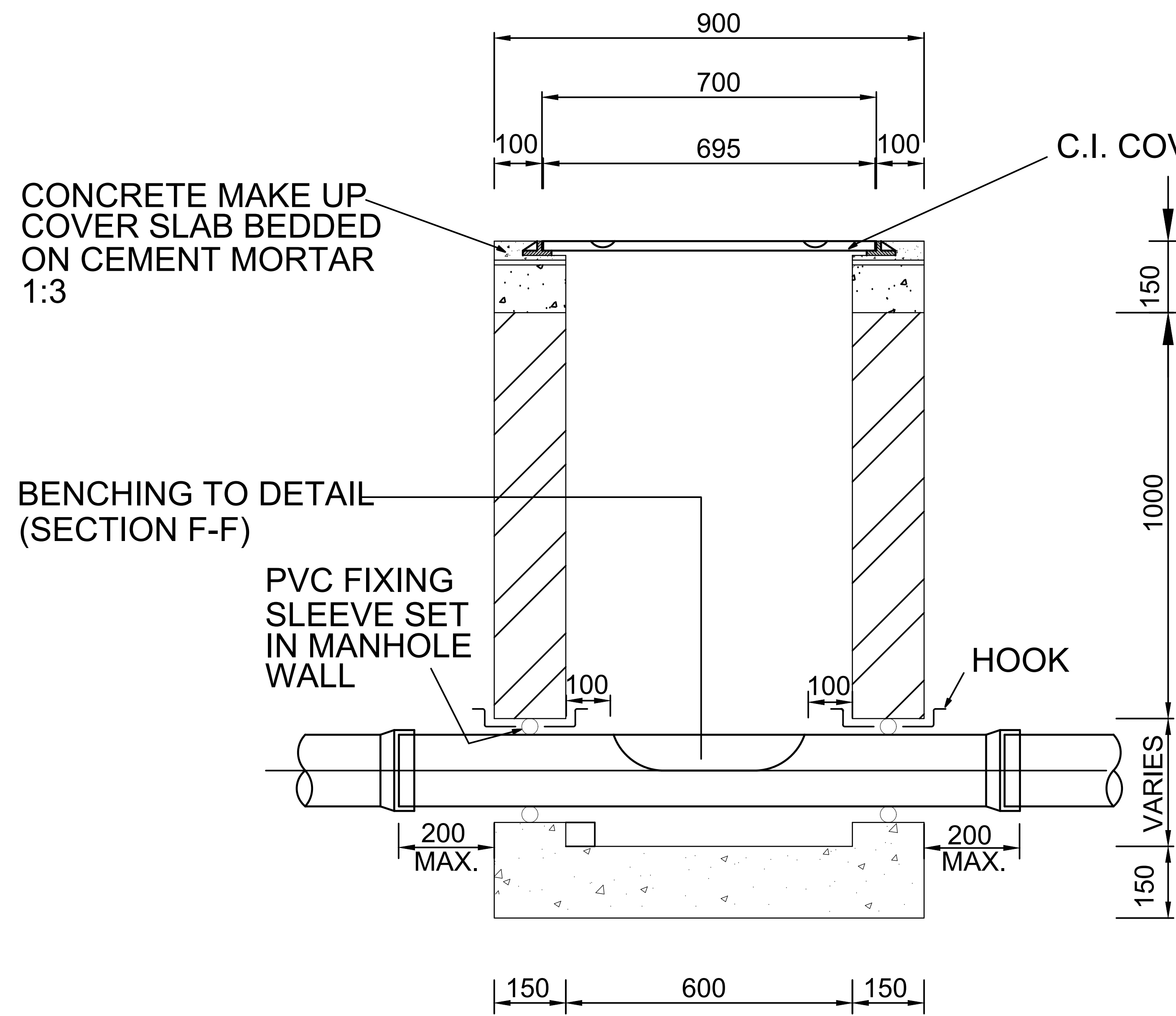
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DRAWING NO: 07-002S-004



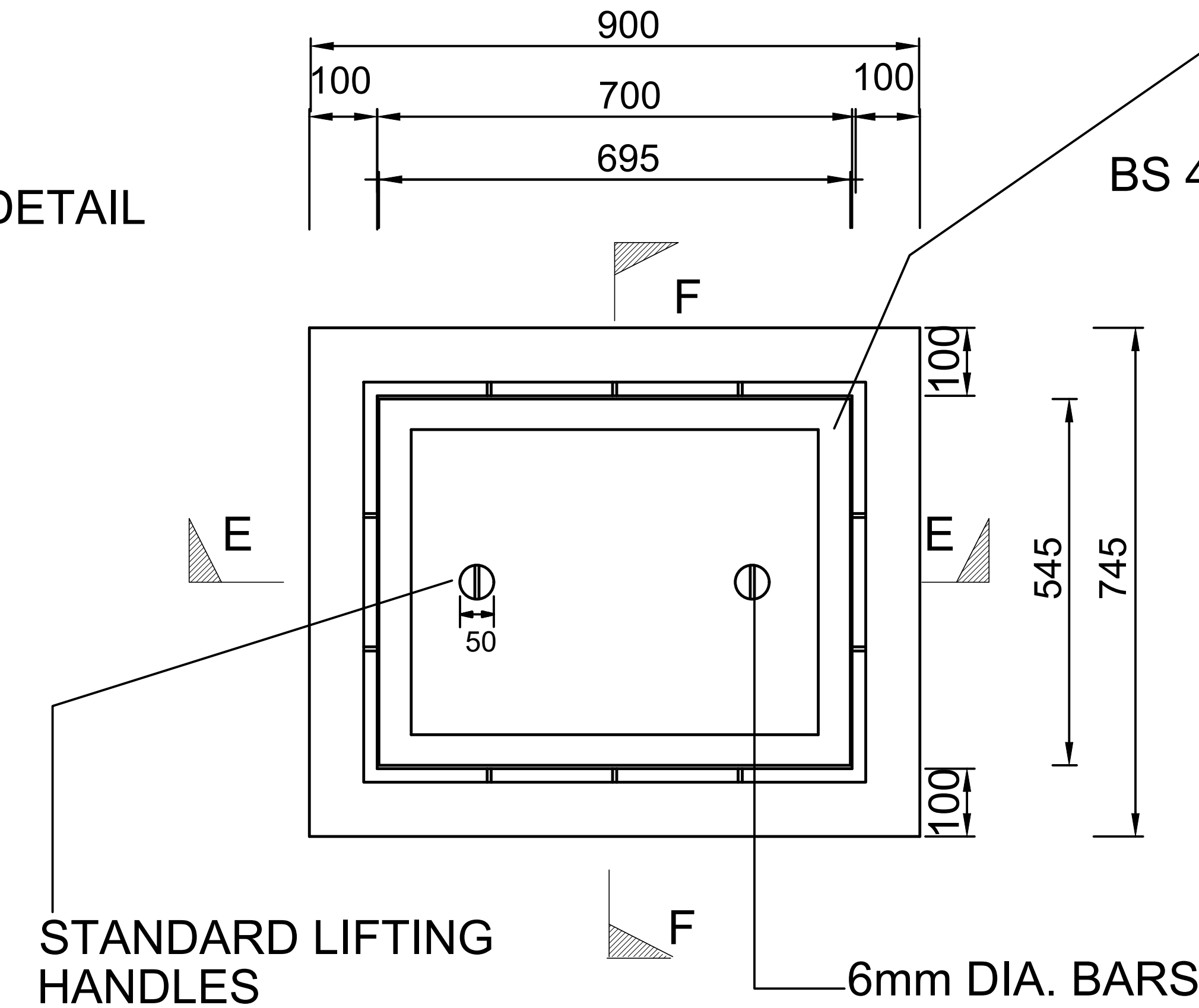
PARKING & DRIVEWAY
One Way Fall
Scale 1:50





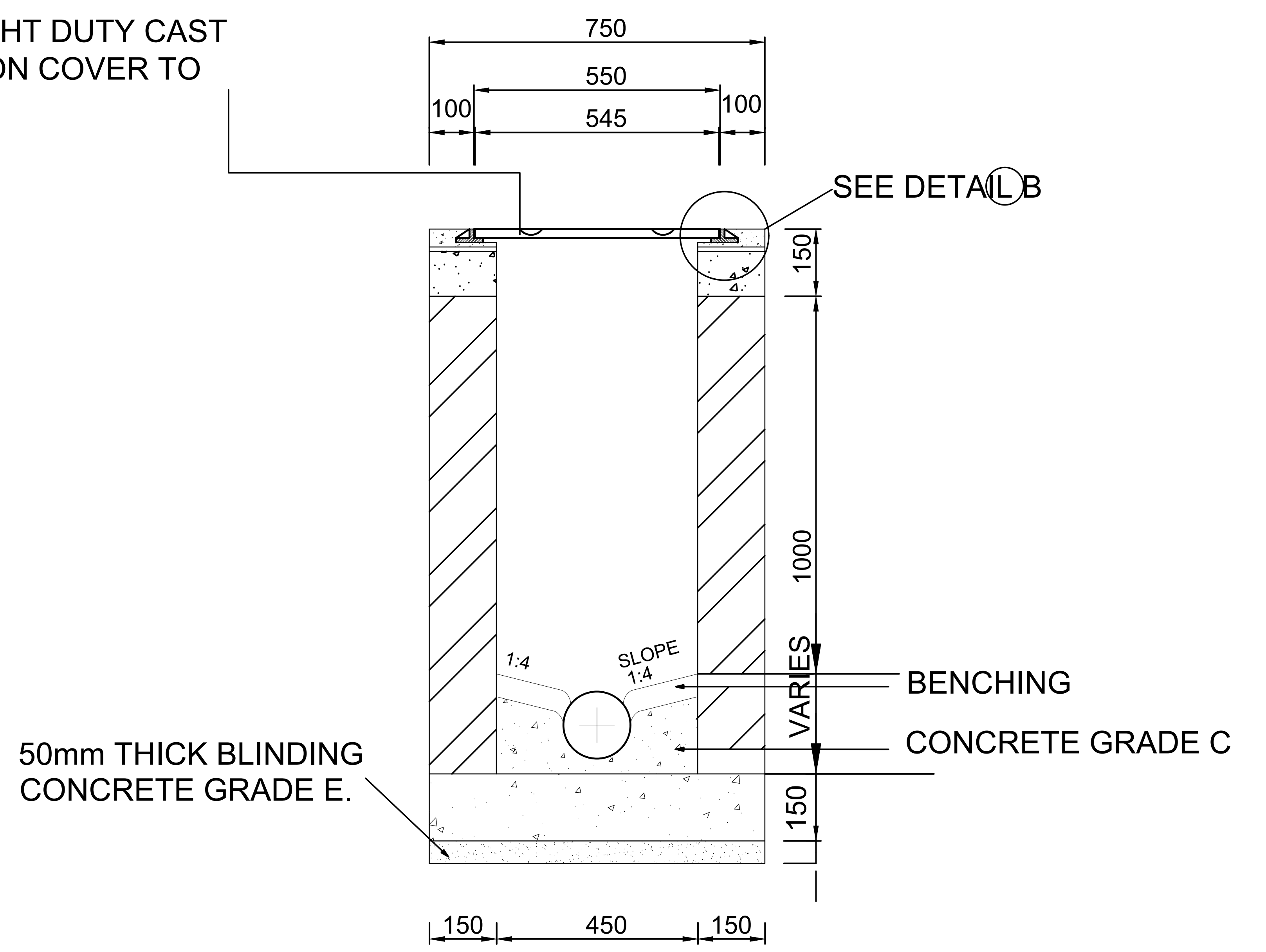
SECTION E-E

SCALE A1- 1:15
A3- 1:30



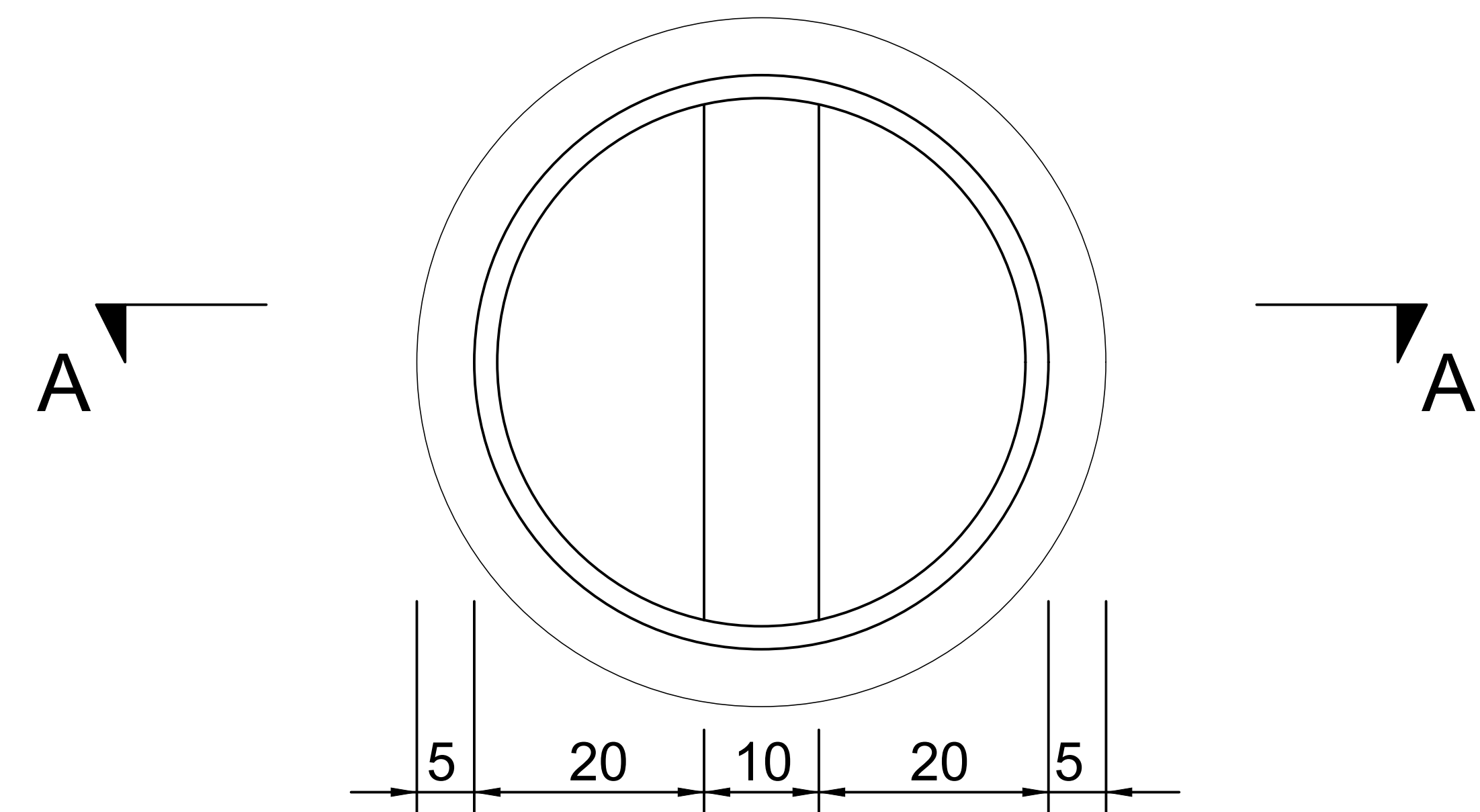
PLAN

SCALE A1- 1:15
A3- 1:30



SECTION F-F

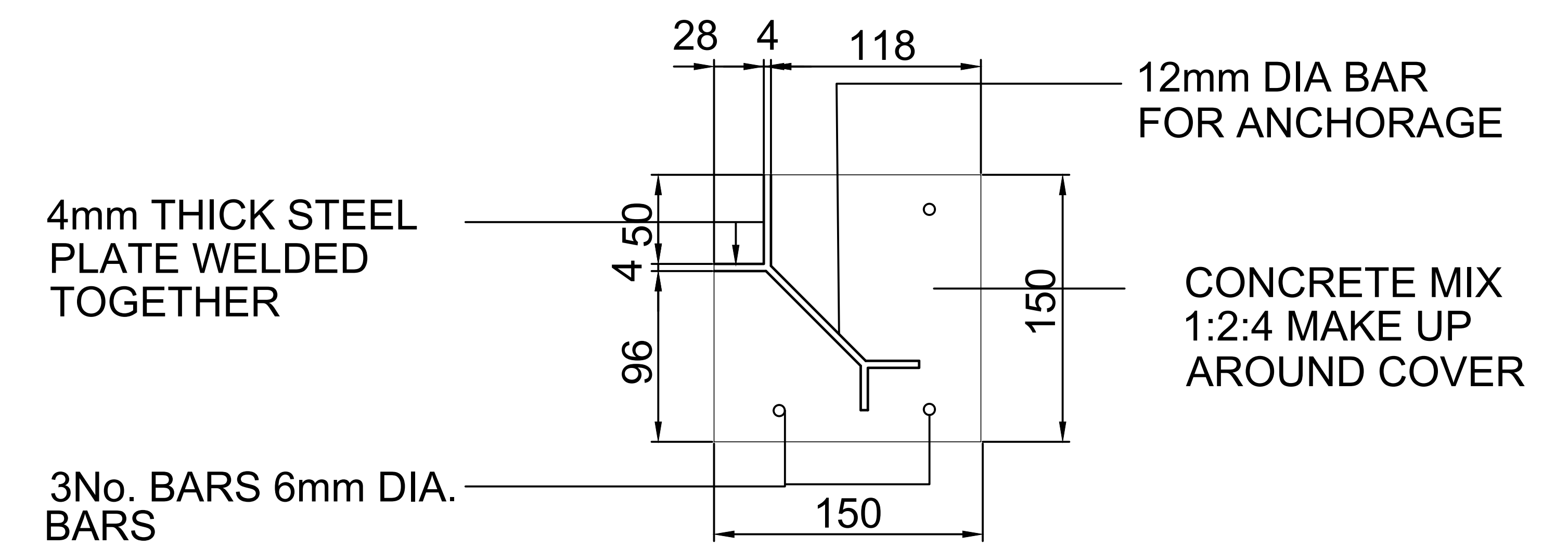
SCALE A1- 1:15
A3- 1:30



DETAIL A
SECTION A-A

DETAIL OF LIFTING KEY HOLE

SCALE 1 : 1



DETAIL B

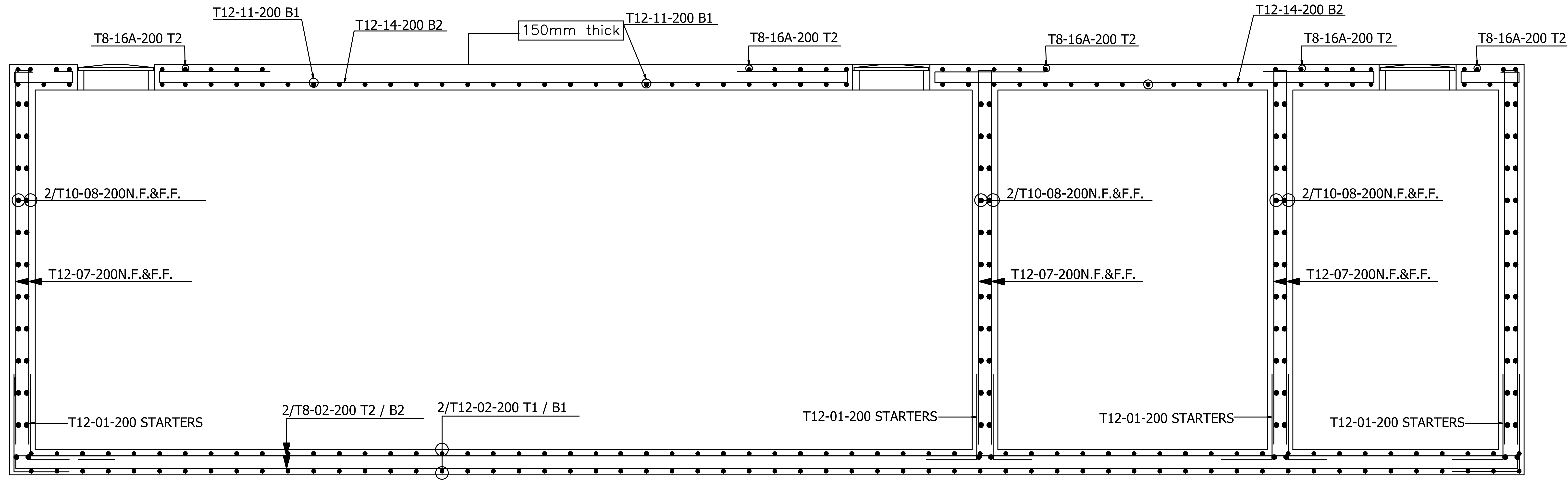
SECTION SHOWING DETAIL
OF FRAME FOR P.C.C - I.C COVER

SCALE 1 : 5

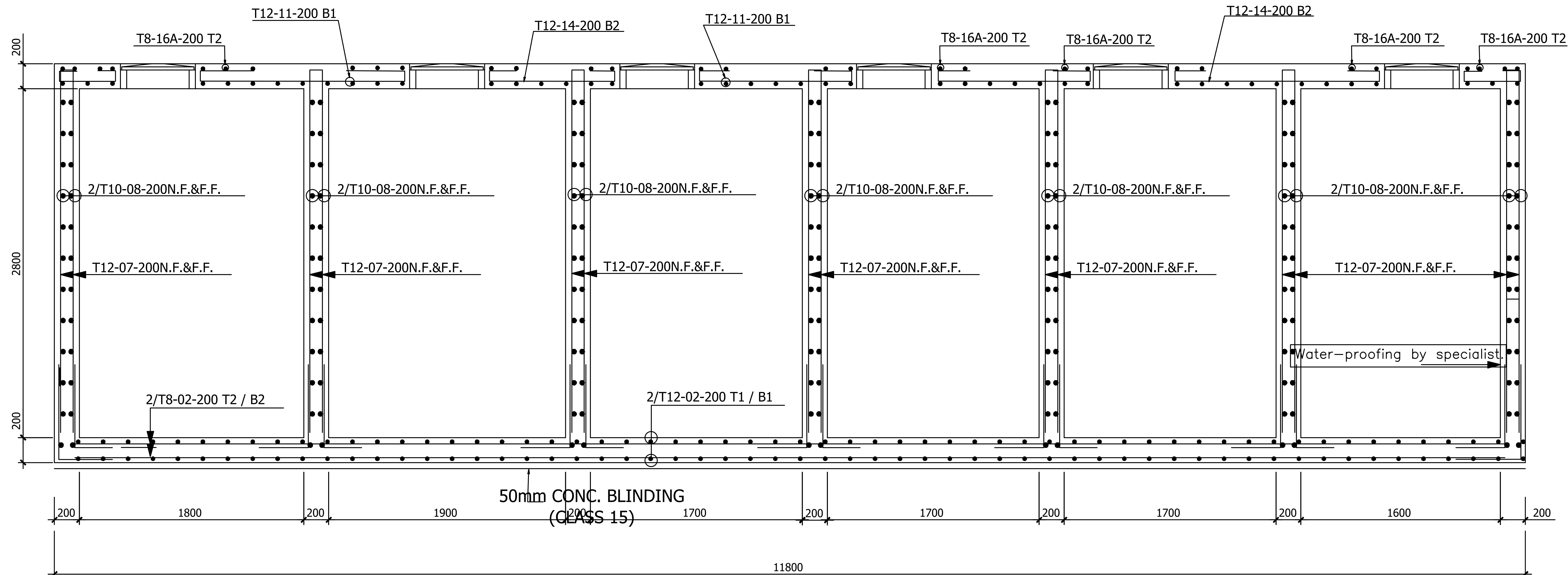
NOTES:

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

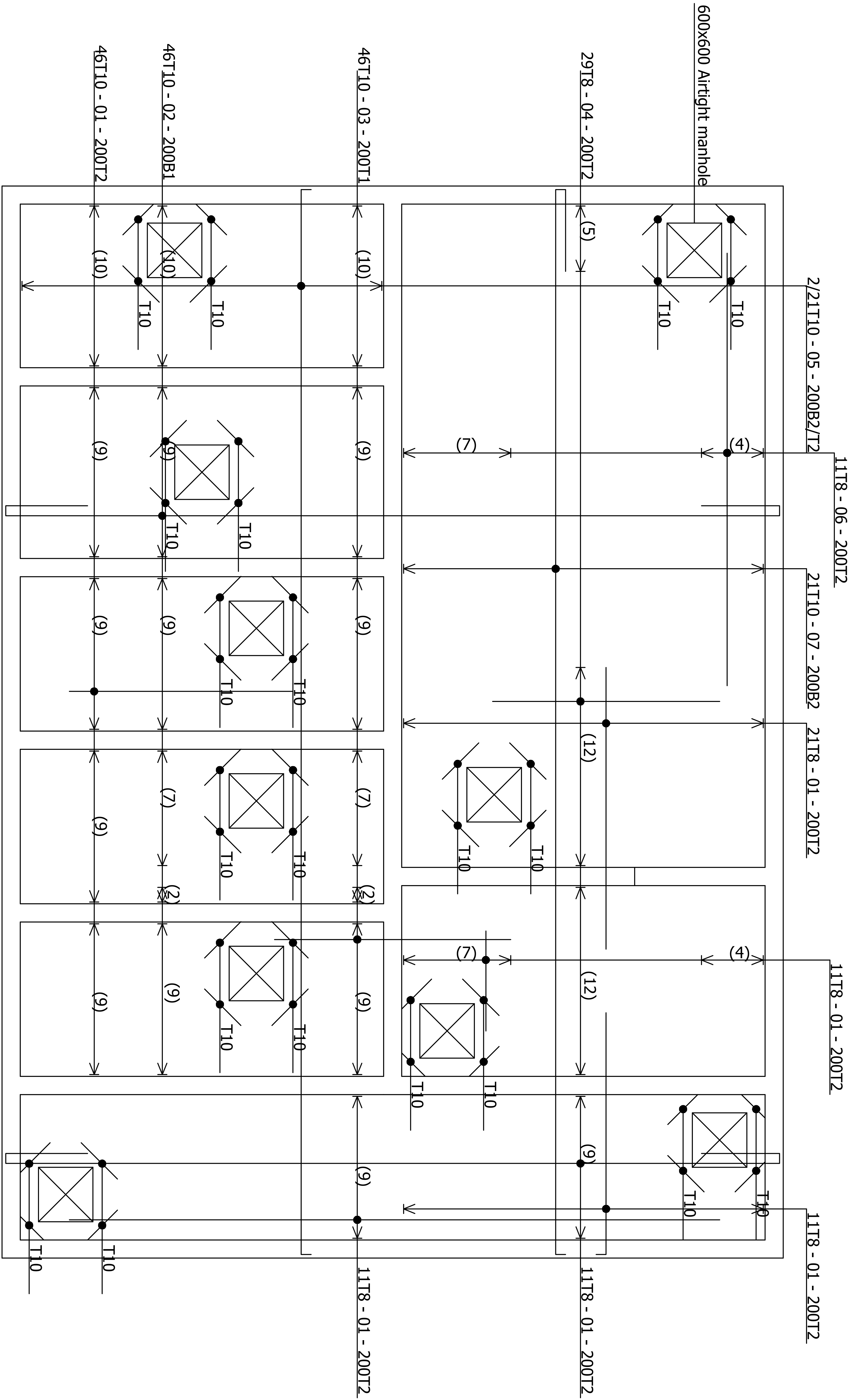
TACK WELDING TO 6mm DIA. STEEL BARS



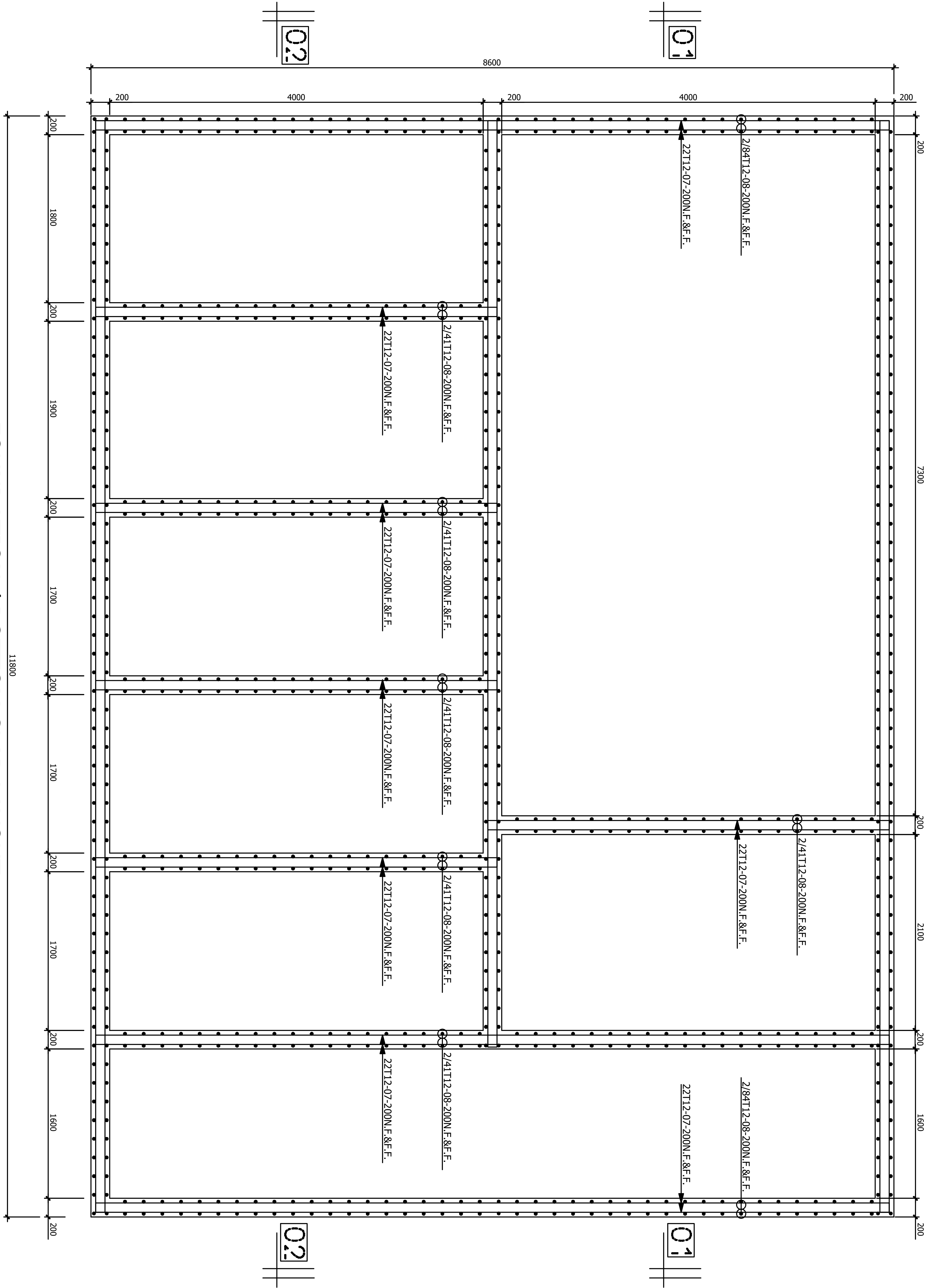
SECTION 01 - 01: REINFORCEMENTS DETAILS.
SCALE 1:25



SECTION 02 - 02: REINFORCEMENTS DETAILS.
SCALE 1:25



TOP SLAB LAYOUT
150mm THICK SOLID SLAB
SCALE 1:25



FOUNDATION / BOTTOM SLAB LAYOUT
SCALE 1:25

DRAWING TITLE: PROPOSED REHABILITATION OF FISHERIES OFFICE - MALINDI**DRAWING NUMBER: 07-003E- 001**

No.	DRAWING/ DOCUMENT TITLE	DRAWING NUMBER	DRAWING SHEET	DRAWING FORMAT	DOCUMENT STATUS
D	ELECTRICAL ENGINEERING DRAWINGS				
1	LIST OF DRAWINGS	07- 003E- 001	A3	PDF/ EXCEL	Provided
2	LIGHTING & POWER SYSTEM GENERAL NOTES	07- 003E- 002	A3	PDF/ DWG	Provided
3	ELECTRICAL SCHEDULE OF SYMBOLS	07- 003E- 003	A3	PDF/ DWG	Provided
4	GROUND FLOOR LIGHTING LAYOUT	07- 003E- 004	A2	PDF/ DWG	Provided
5	GROUND FLOOR POWER LAYOUT	07- 003E- 005	A2	PDF/ DWG	Provided
6	GROUND FLOOR FIRE ALARM LAYOUT	07- 003E- 006	A2	PDF/ DWG	Provided
7	GROUND FLOOR CCTV LAYOUT	07- 003E- 007	A2	PDF/ DWG	Provided
8	GROUND FLOOR FANS LAYOUT	07- 003E- 008	A2	PDF/ DWG	Provided
9	GROUND FLOOR SCHEMATICS	07- 003E- 009	A2	PDF/ DWG	Provided
10	SITE PLAN ELECTRICAL LAYOUT	07- 003E- 010	A2	PDF/ DWG	Provided
11	STREET LIGHT DETAIL	07- 003E- 011	A2	PDF/ DWG	Provided
12	SOLAR SCHEMATIC	07- 003E- 012	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 KPLC 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 KPLC 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. 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/MPCB 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. MCCB/MCBs IN THE MAIN SWITCHBOARDS, SUB-SWITCHBOARDS, DISTRIBUTION BOARDS SHOWN HEREIN AND OTHER DRAWINGS PROTECTING MOTOR CIRCUITS FOR PUMPS, FANS, AMHS, 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 1977.
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 MCCB's/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 LNPH OR AS OTHERWISE SHOWN ON PLAN.

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REVISIONS:

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PROJECT TITLE:

PROPOSED REHABILITATION OF
FISHERIES OFFICE - MALINDI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

ELECTRICAL DRAWINGS
NOTES

Dwg. No. **07- 003E- 002**

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Drawn by

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Project no.:

Date:

07

24.11.2023

SCHEDULE OF SYMBOLS AND LIGHTING LUMINAIRES



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SCHEDULE OF SYMBOLS
AND LIGHTING
LUMINAIRES

Dwg. No.	07- 003E- 003		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:	Date:		
07	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



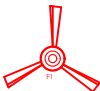
25mm x 3mm tinned annealed copper tape for both roof & down conductors



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, 24/7 colourful imaging, Efficient Compression Technology Bullet CCTV Camera



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



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GROUND FLOOR LIGHTING
LAYOUT

Dwg. No. **07- 003E- 004**

Scale: NTS

Drawn by Chek'd By

Project no.: Date:

07 10.01.2024

FIRE
ASSEMBLY
POINT.

PAVING BLOCKS DRIVE -WAY

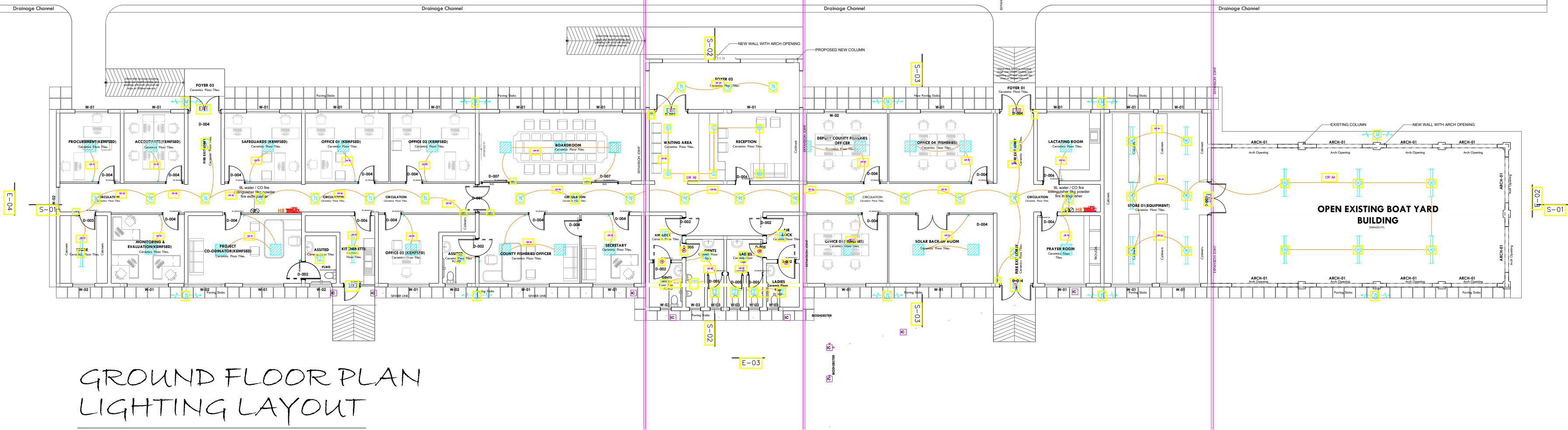
PAVING BLOCKS DRIVE -WAY

PAVING BLOCKS DRIVE -WAY

FOOTPATH

FOOTPATH

FOOTPATH



GROUND FLOOR PLAN
LIGHTING LAYOUT



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GROUND FLOOR POWER
LAYOUT

Dwg. No. **07- 003E- 005**

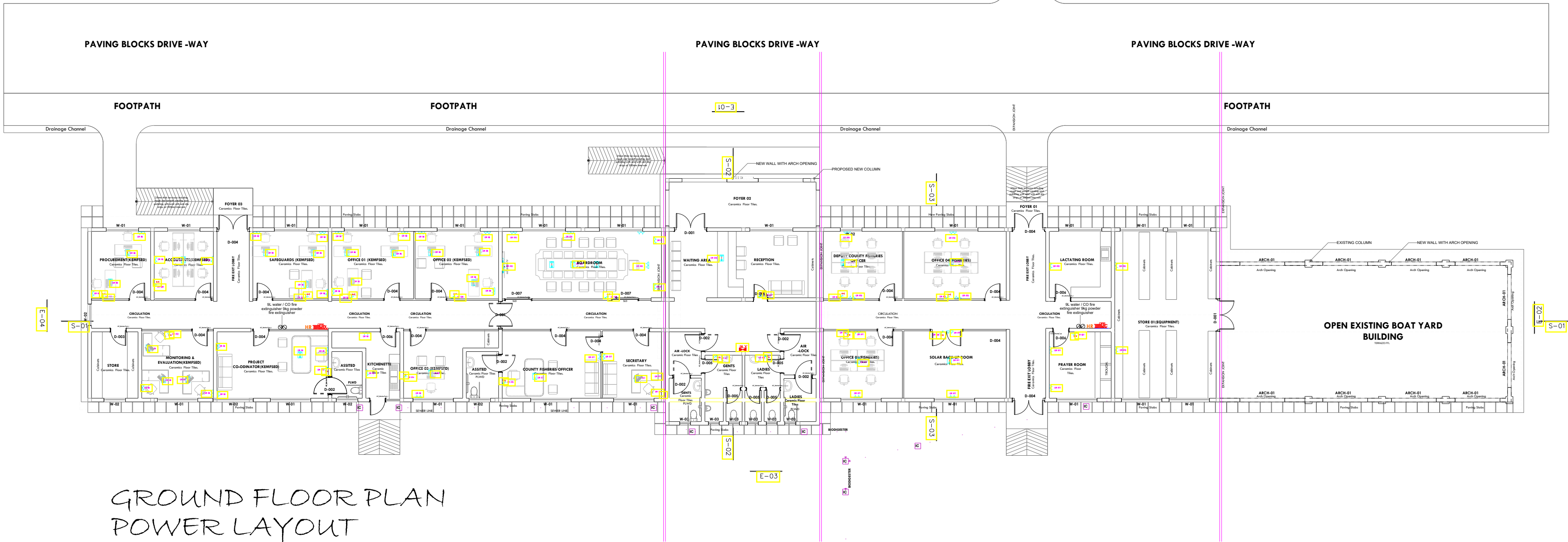
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Drawn by Chek'd By

Project no.: Date:

07 10.01.2024

FIRE
ASSEMBLY
POINT.





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PO. BOX 12969-0040,
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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED REHABILITATION OF
FISHERIES OFFICE - MALINDI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

GROUND FLOOR FIRE
ALARM LAYOUT

Dwg. No. **07- 003E- 006**

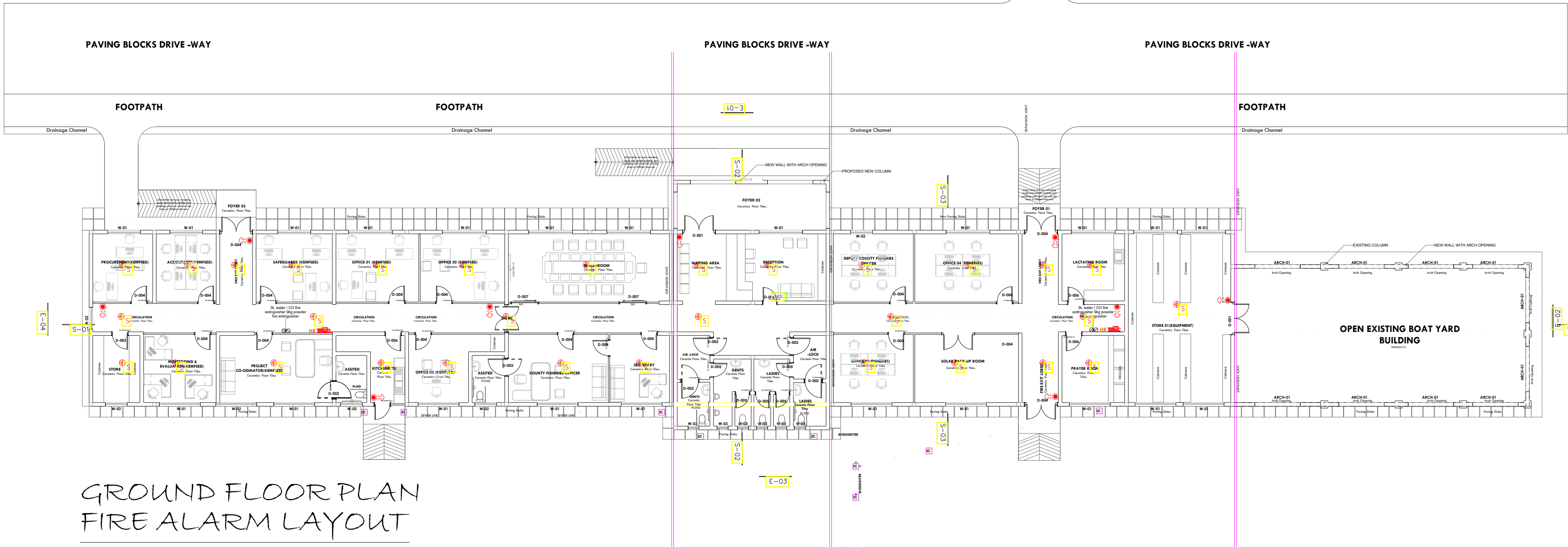
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Project no.: Date:

07 10.01.2024

FIRE
ASSEMBLY
POINT.



TENDER ISSUE

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED REHABILITATION OF
FISHERIES OFFICE - MALINDI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
GROUND FLOOR CCTV
LAYOUT

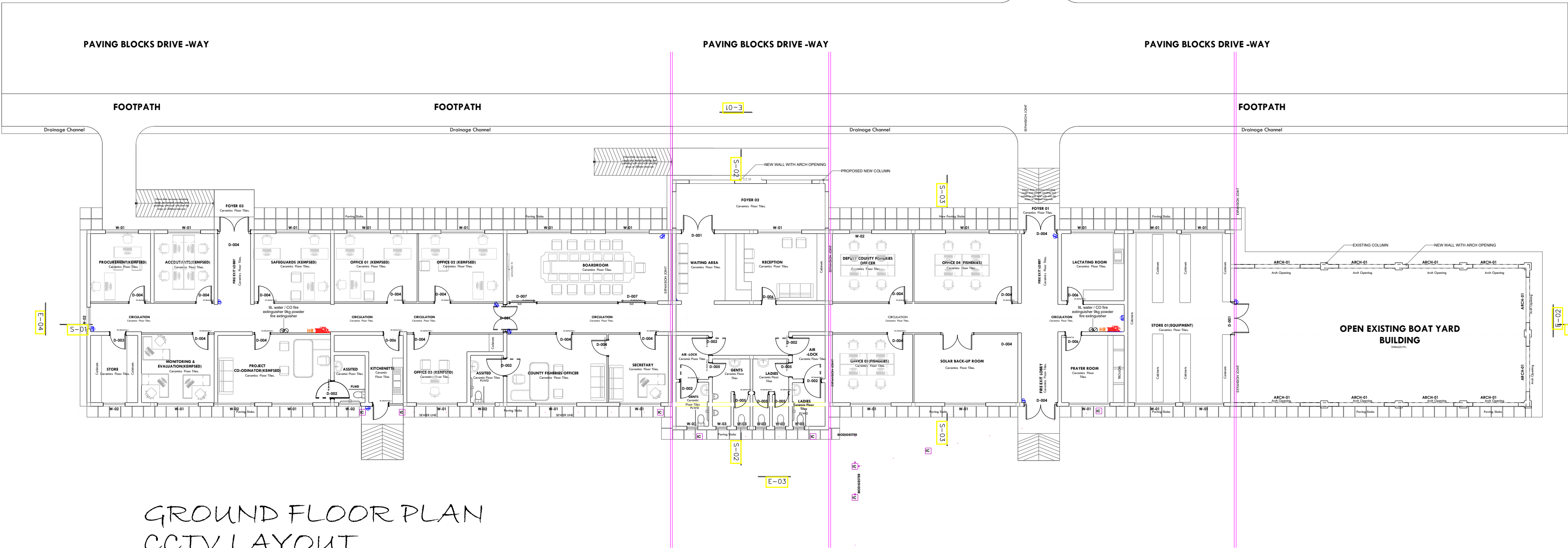
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Project no.: 07
Date: 10.01.2024

FIRE
ASSEMBLY
POINT.



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED REHABILITATION OF FISHERIES OFFICE - MALINDI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
GROUND FLOOR FANS
LAYOUT

Dwg. No.	07- 003E- 008
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Scale:	NTS
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Drawn by	
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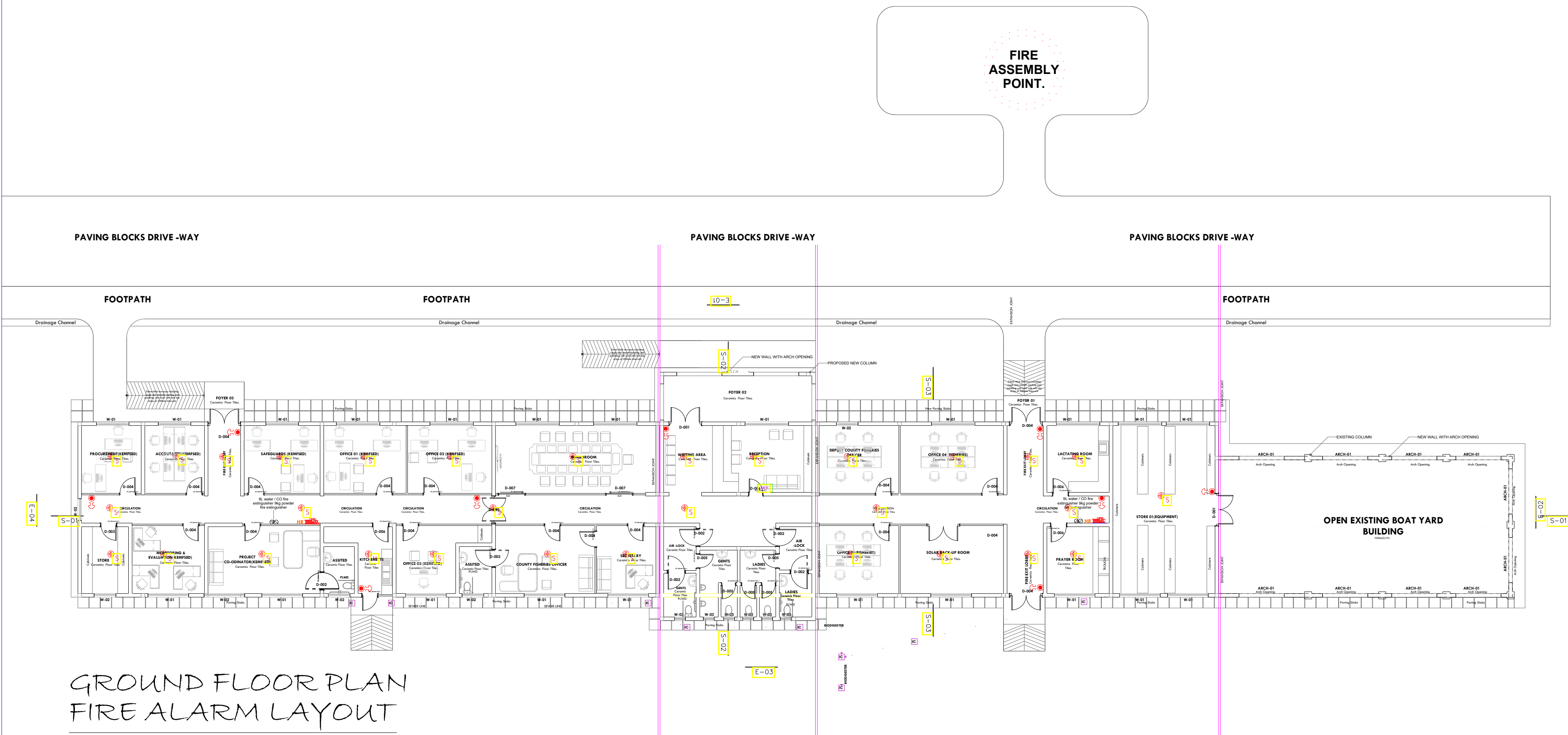
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Project no.:

Date:

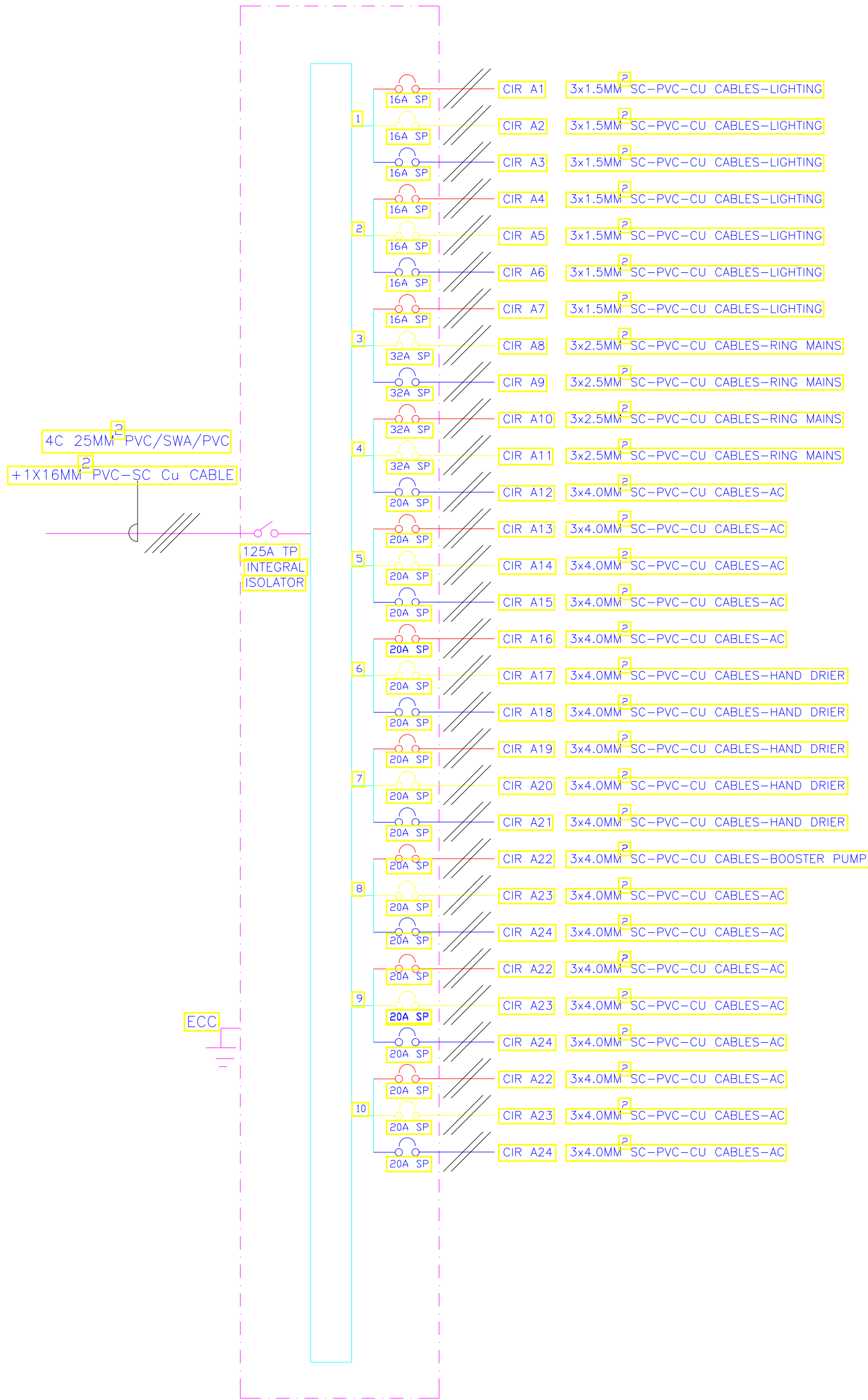
07

10.01.2024



GROUND FLOOR PLAN FIRE ALARM LAYOUT

TENDER ISSUE



10- WAY 125A TPN DISTRIBUTION BOARD 'A' FOR
RAW POWER DISTRIBUTION ON GROUND FLOOR

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED REHABILITATION OF
FISHERIES OFFICE - MALINDI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

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DRAWING TITLE:

GROUND FLOOR
SCHEMATIC LAYOUT

Dwg. No.	07- 003E- 009	
Scale:	NTS	
Drawn by	Chek'd By	
Project no.:		Date:
07		10.01.2024

TENDER ISSUE

SITE PLAN ELECTRICAL LAYOUT



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED REHABILITATION OF FISHERIES OFFICE - MALINDI

CLIENT:

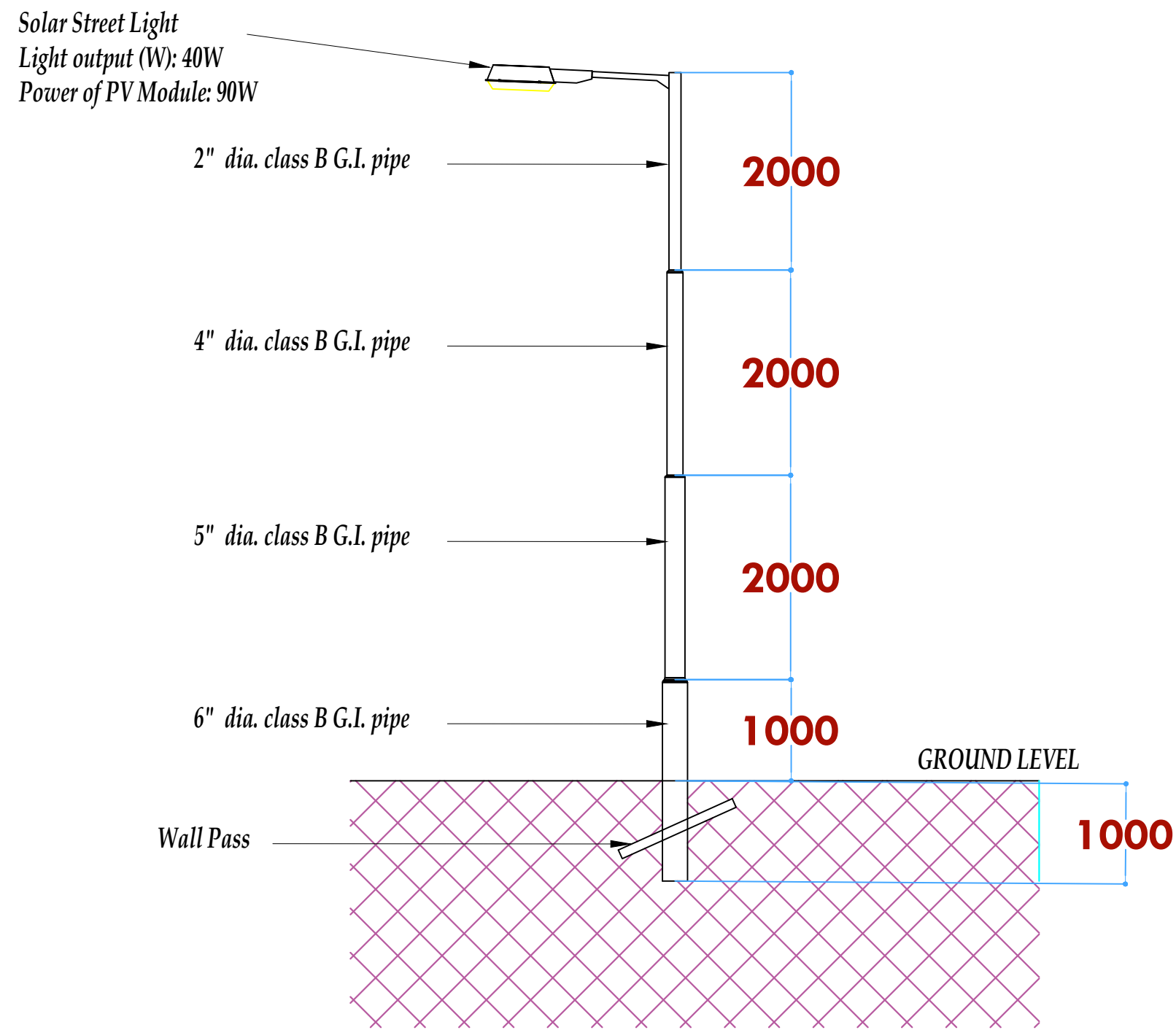
STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

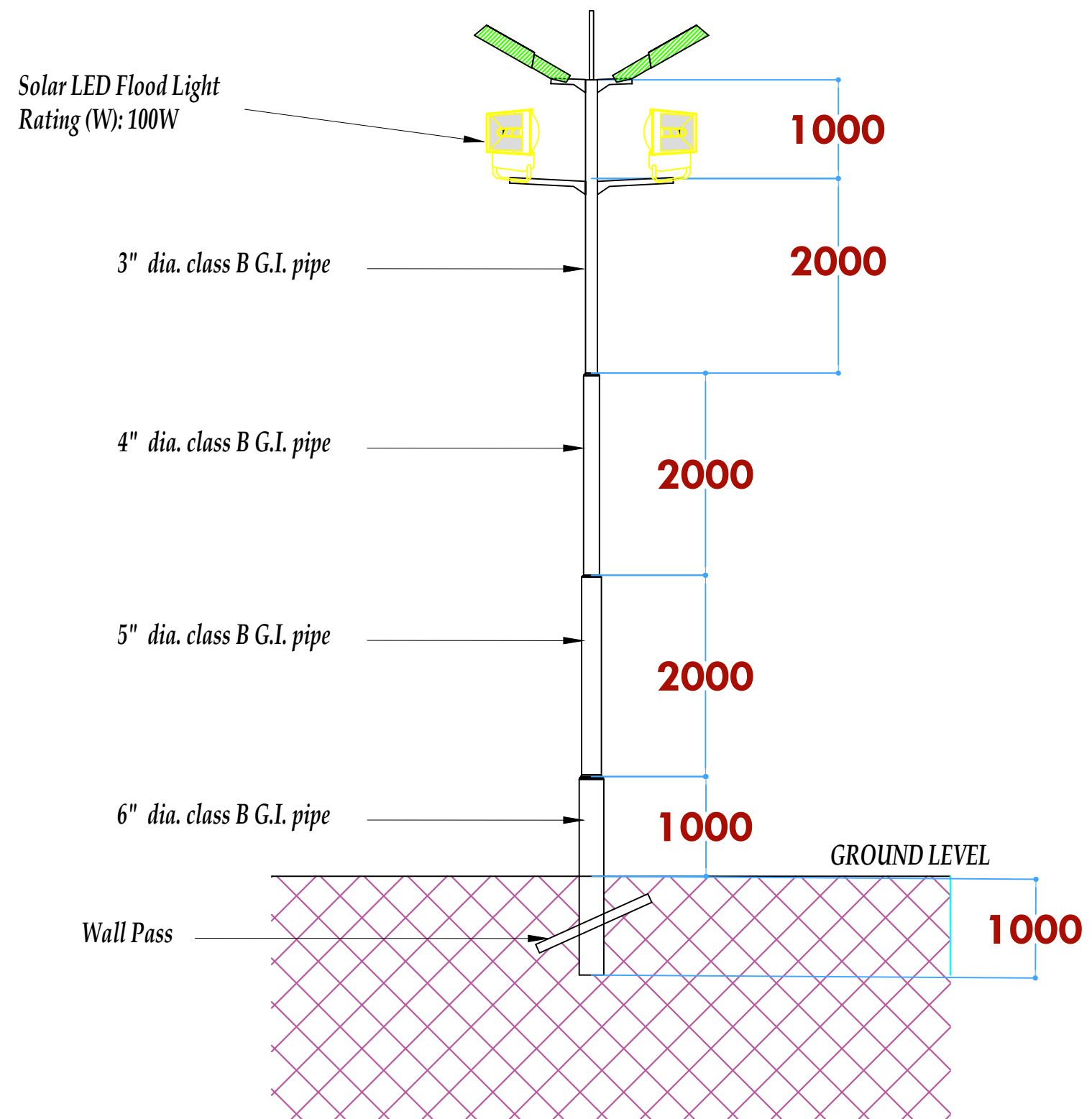
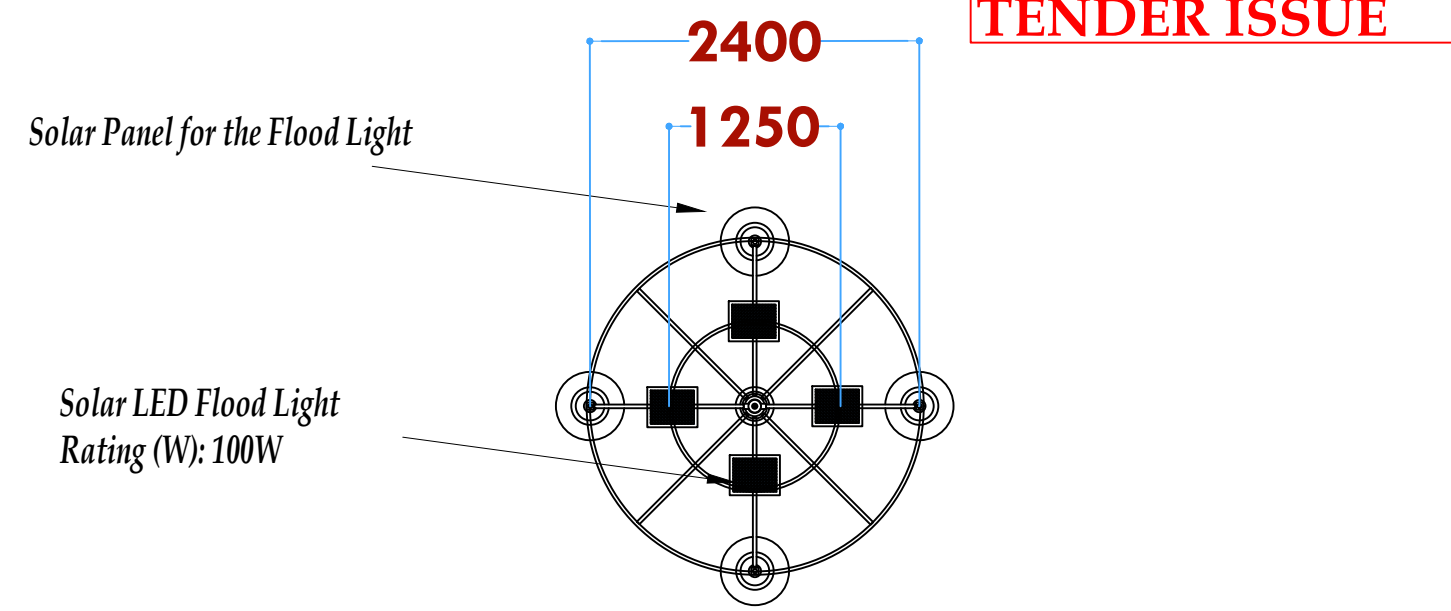
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DRAWING TITLE:
SITE PLAN ELECTRICAL
LAYOUT

Dwg. No.	07- 003E- 010		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:	Date:		
07	20.01.2024		



P4
STREET LIGHT DETAIL



TYPE M SOLAR
FLOOD LIGHT DETAIL

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED REHABILITATION OF
FISHERIES OFFICE - MALINDI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

STREET LIGHT DETAIL

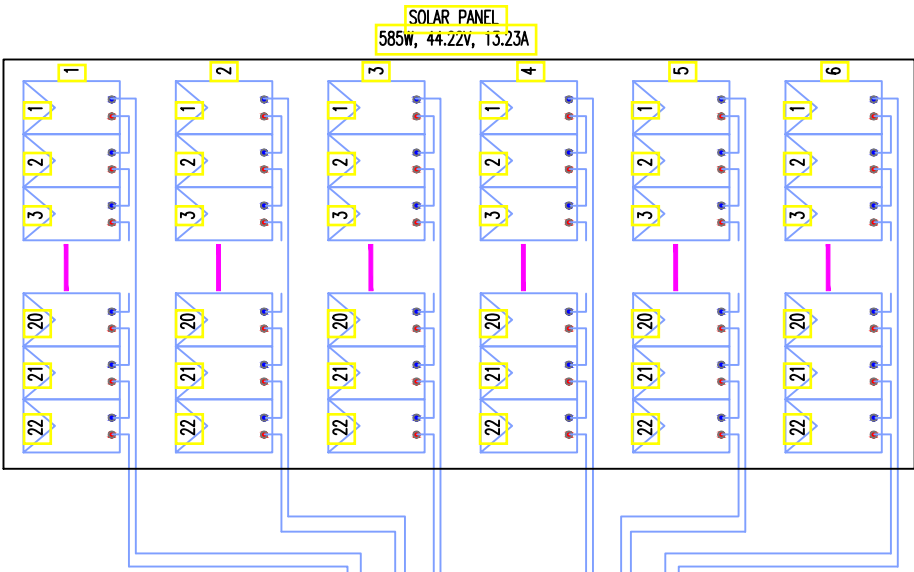
Dwg. No. **07- 003E- 011**

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 REHABILITATION OF
FISHERIES OFFICE - MALINDI
-

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:	
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DRAWING TITLE:

POWER SYSTEM SOLAR
SCHEMATIC

Dwg. No.	07- 003E- 012		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:		Date:	
07		24.01.2024	

POWER SYSTEM
SOLAR SCHEMATIC

DRAWING TITLE: PROPOSED REHABILITATION OF FISHERIES OFFICE - MALINDI

DRAWING NUMBER: 07-003M- 001

No.	DRAWING/ DOCUMENT TITLE	DRAWING NUMBER	DRAWING SHEET	DRAWING FORMAT	DOCUMENT STATUS
D	ELECTRICAL ENGINEERING DRAWINGS				
1	LIST OF DRAWINGS	07- 003M- 001	A3	PDF/ EXCEL	Provided
2	GROUND FLOOR DRAINAGE	07- 003M- 002	A2	PDF/ DWG	Provided
3	GROUND FLOOR PLUMBING	07- 003M- 003	A2	PDF/ DWG	Provided
4	ROOF MECHANICAL LAYOUT	07- 003M- 004	A2	PDF/ DWG	Provided
5	SITE PLAN WATER RETICULATION	07- 003M- 005	A2	PDF/ DWG	Provided

DETAILED DESIGN

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF RESOURCE CENTER & RELATED INFRASTRUCTURE-MALINDI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

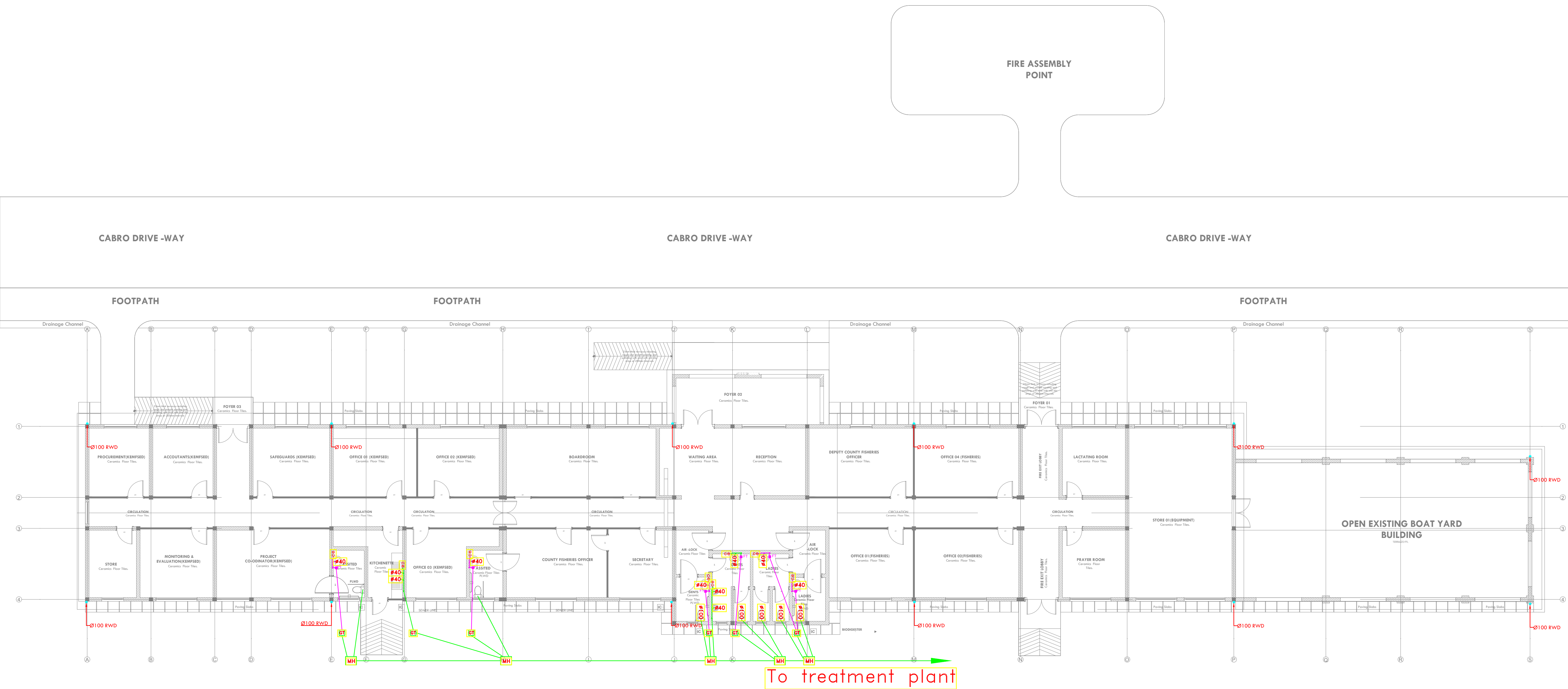
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Sign:

DRAWING TITLE:

GROUND FLOOR DRAINAGE

Dwg. No.	07-003M-002		
Scale:	NTS		
Drawn by	E.M.	Chek'd By	G.O.
Project no.:	Date:		
P.2103	20.01.2024		





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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
RESOURCE CENTER & RELATED
INFRASTRUCTURE-MALINDI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign: _____

DRAWING TITLE:

GROUND FLOOR WATER
SUPPLY

Dwg. No. **07-003M-003**

Scale: NTS

Drawn by **E.M.** Chek'd By **G.O.**

Project no.: Date:

P.2103 20.01.2024

FIRE ASSEMBLY
POINT

CABRO DRIVE -WAY

CABRO DRIVE -WAY

CABRO DRIVE -WAY

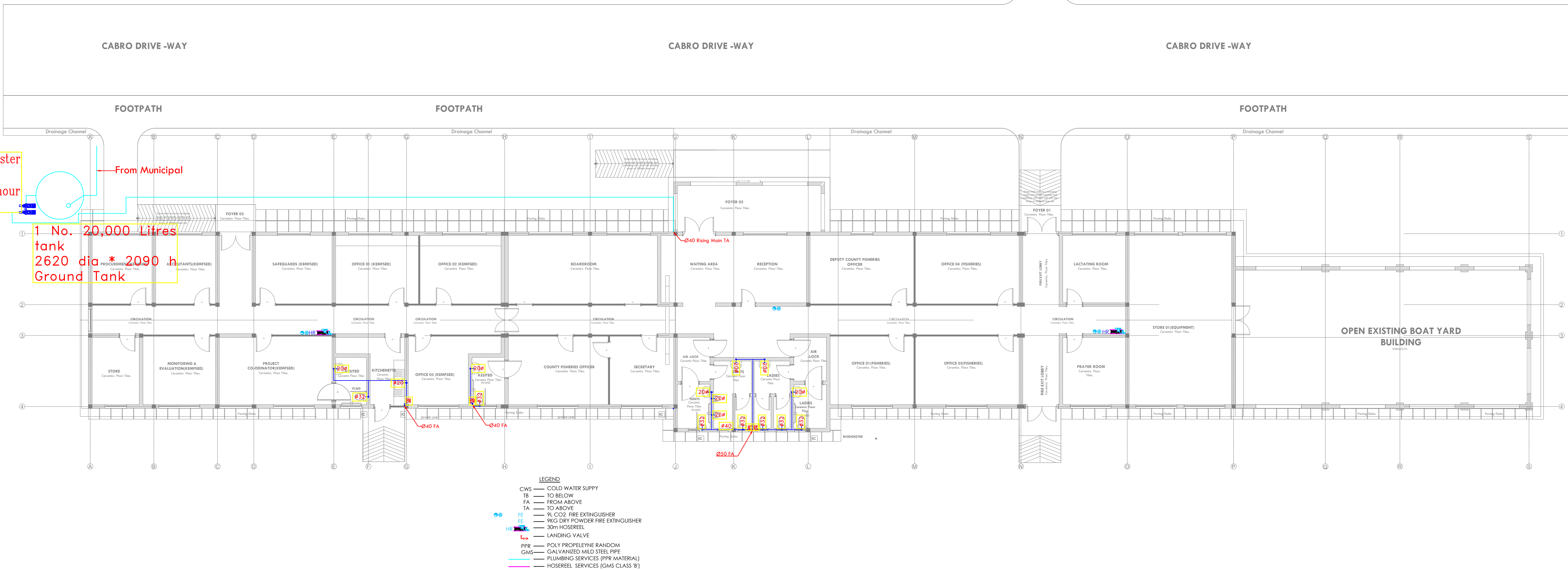
FOOTPATH

FOOTPATH

FOOTPATH

Duty- Stand- by Booster
Pump
Flow Rate: 4,000lts/ hour
Head: 25m

1 No. 20,000 Litres
tank
2620 dia * 2090 h
Ground Tank





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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
RESOURCE CENTER & RELATED
INFRASTRUCTURE- MALINDI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

ROOF WATER
SUPPLY

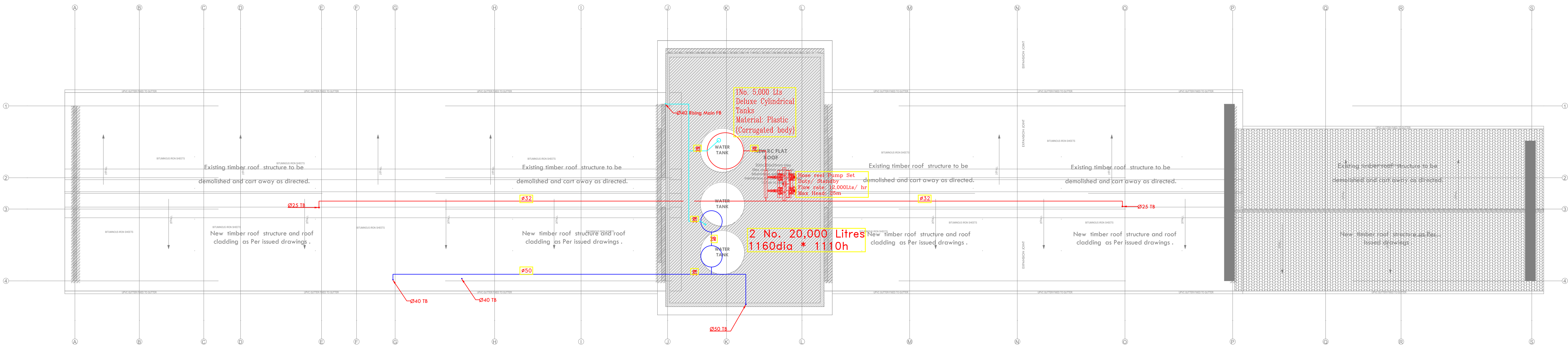
Dwg. No. **07-003M-004**

Scale: NTS

Drawn by **E.M.** Chek'd By **G.O.**

Project no.: Date:

P.2103 20.01.2024



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED REHABILITATION OF FISHERIES OFFICE - MALINDI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:	
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DRAWING TITLE:
SITE PLAN WATER
RETICULATION LAYOUT

Dwg. No.	07- 003M- 005		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:	Date:		
04	20.01.2024		

SITE PLAN WATER RETICULATION LAYOUT

