

Client: INTERNATIONAL ORGANIZATION FOR MIGRATION (IOM)

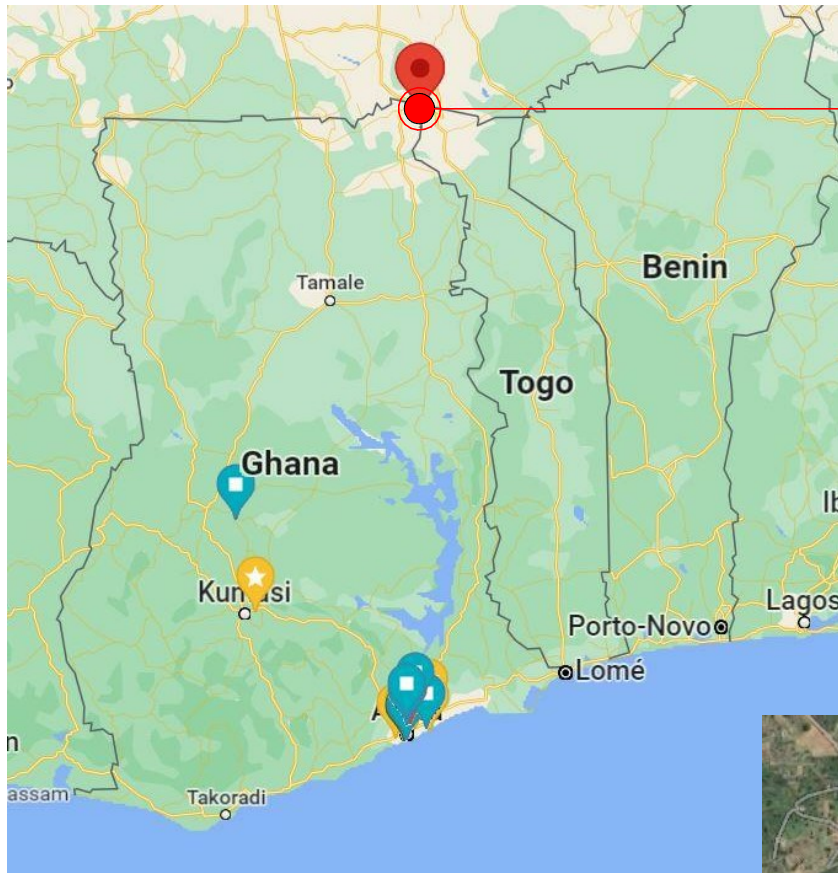
Project: PROPOSED REFURBISHMENT OF BORDER POST AND CONSTRUCTION
OF WASH FACILITY

Location: PULIMAKOM, UPPER EAST REGION, GHANA

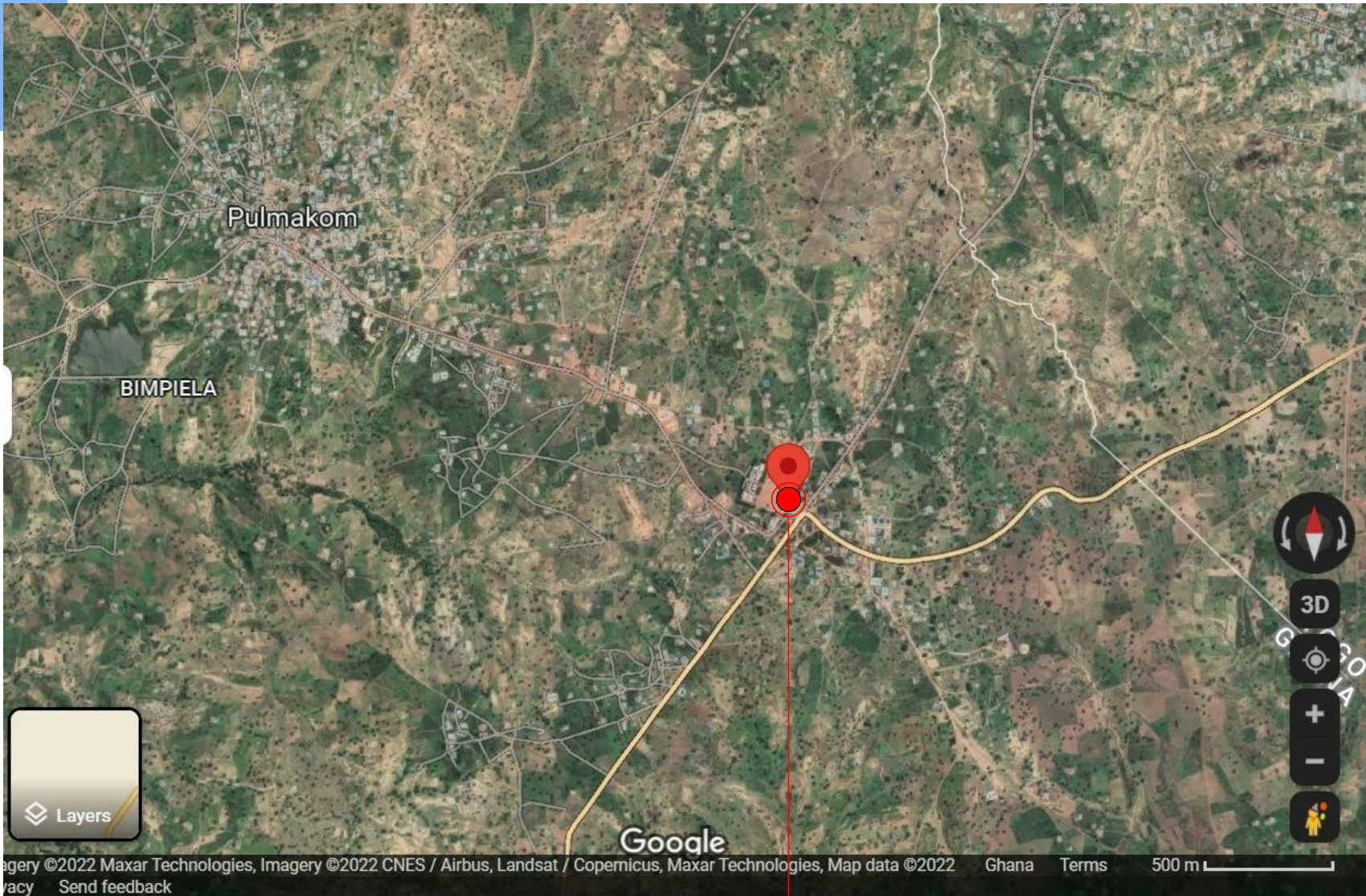
Beneficiary: GHANA IMMIGRATION SERVICE

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G . A . ROOF BEAM & R . C . COLUMN FOOTINGS DETAILS	S/003	WATER DISTRIBUTION LAYOUT	MP-04
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G.A .ROOF BEAM &R . C . COLUMN FOOTINGS DETAILS	S/002		
R . C . ROOF BEAM DETAILS	S/003		

ARCHITECTURAL DRAWINGS



Pulmakom, upper East Region of Ghana



Existing border post coordinate=
11°04'32.4"N 0°00'12.4"W

NOTES

DO NOT MEASURE DIRECTLY FROM DRAWINGS.
IF IN DOUBT, CONSULT THE ARCHITECT.
ALL DIMENSIONS ARE IN MILLIMETERS.
DO NOT DUPLICATE THE DRAWINGS WITHOUT THE CONSENT OF THE ARCHITECT

REVISIONS

DATE	DESCRIPTION

PROJECT:
PROPOSED WATER, SANITATION AND
HYGINE (WASH) FACILITY AND
RENOVATION OF EXISTING BORDER POST
LOCATION: PULMAKOM

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION

SHEET
TITLE:
SITE LOCATION

DESIGNED BY:
ELVIS. A

SCALE:
1 : 200

DRAWN BY:
George Hughes

JOB NO.:
TR/2022/4

CHECKED BY:
ELVIS ASIEDU

SHEET
NO:
A01

DATE: 7/20/2022 6:57:13 PM



NOTES

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PROJECT:
PROPOSED WATER, SANITATION AND
HYGINE (WASH) FACILITY AND
RENOVATION OF EXISTING BORDER POST
LOCATION: PULMAKOM

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION

SHEET
TITLE:
BLOCK PLAN

DESIGNED BY:
ELVIS. A

SCALE:
1 : 200

DRAWN BY:
ELVIS ASIEDU

JOB NO.:
TR/2022/4

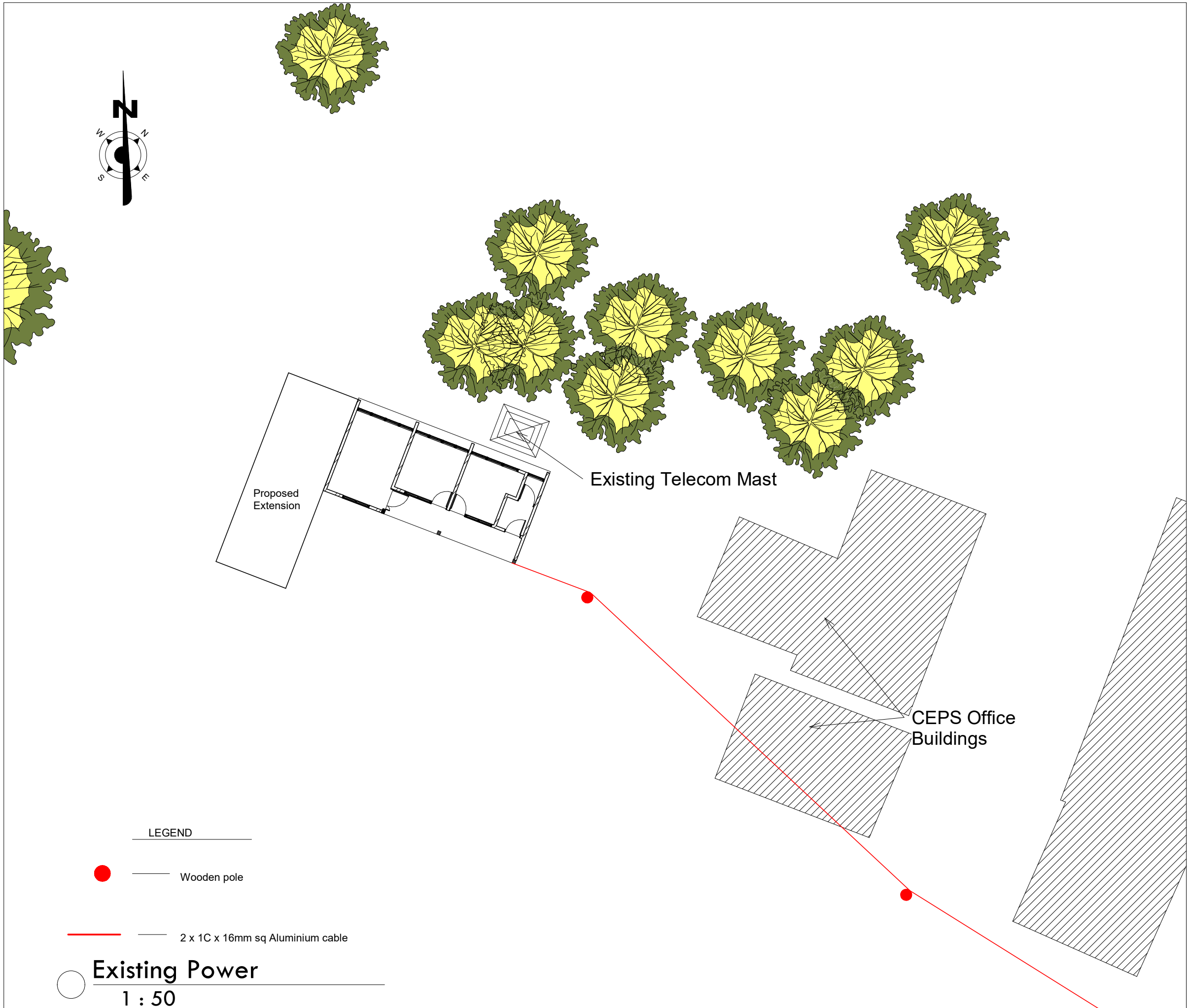
CHECKED BY:
ELVIS ASIEDU

SHEET
NO:
A02

DATE: 7/20/2022 6:57:14 PM

1 Block Plan
1 : 200

Boundary of Customs Excise and
Preventive Service (CEPS)



NOTES

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1. No Existing Municipal Gas supply lines on site or 50 meters radius of border post

2. No data or telephone lines exist on site or 50 meters radius of border post

3. No existing Municipal water lines on site or 100m radius of border post.

4. No existing surface/storm drain around border post

REVISIONS

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PROPOSED WATER, SANITATION AND
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RENOVATION OF EXISTING BORDER POST
LOCATION: PULMAKOM

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION

SHEET
TITLE:
**BLOCK PLAN_ EXISTING
UTILITIES**

DESIGNED BY:
ELVIS. A

DRAWN BY:
George Hughes

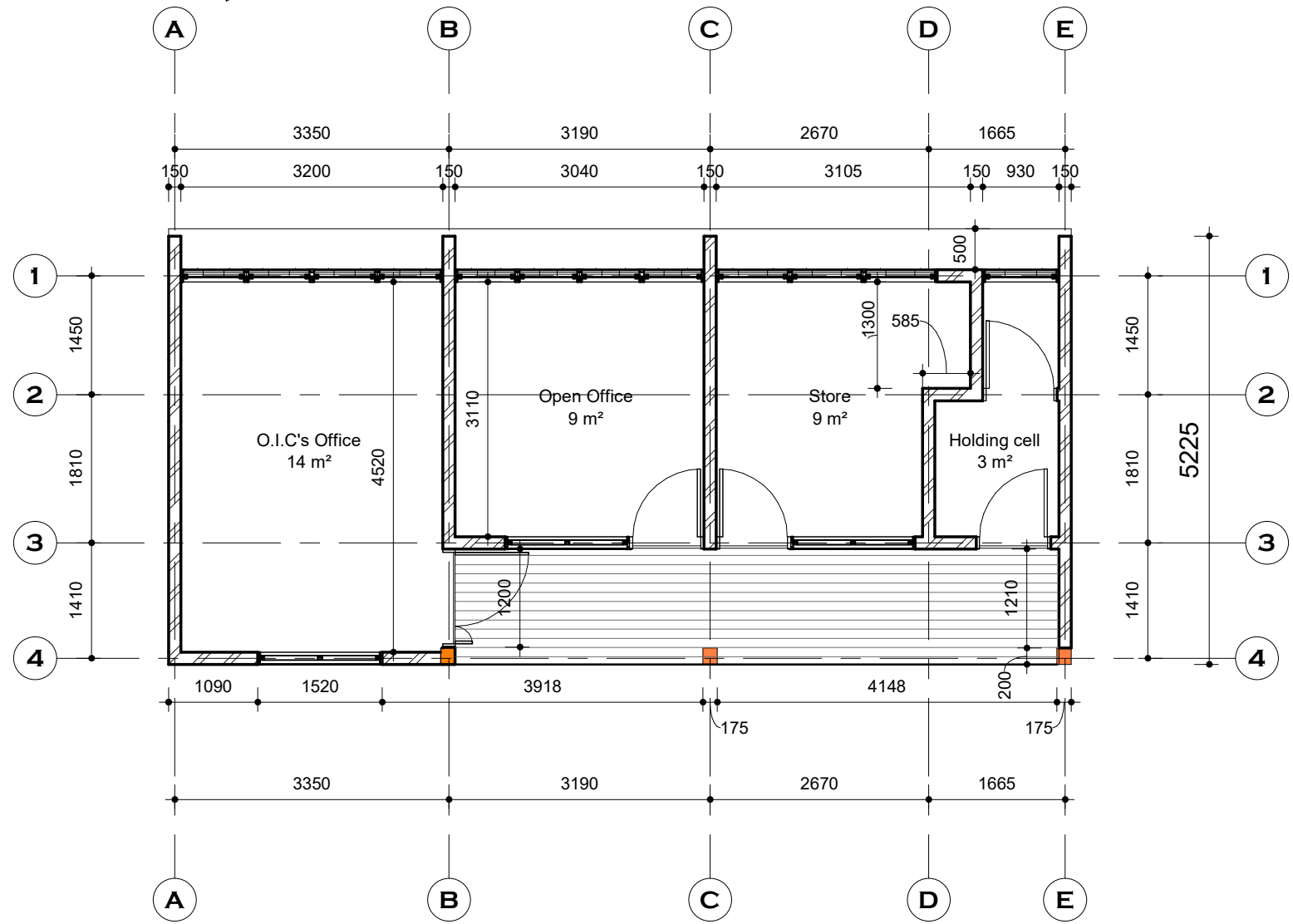
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SCALE:
As indicated

JOB NO.:
TR/2022/4

SHEET
NO:
A02e



LEGEND

- New wall to be introduced
- Existing wall to be maintained
- New column to be introduced
- Existing column to be maintained
- ww New Windows to be Installed
- ww Existing Windows to be replaced with new windows
- ww Existing Windows to be removed
- dd Existing Doors to be maintained
- dd New Windows to be Installed
- dd Existing door to be removed

NOTES

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PROPOSED WATER, SANITATION AND
HYGEINE (WASH) FACILITY AND
RENOVATION OF EXISTING BORDER POST
LOCATION: PULMAKOM

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION

SHEET
TITLE:
EXISTING FLOOR PLAN

DESIGNED BY:
ELVIS. A

SCALE:
As indicated

DRAWN BY:
George Hughes

JOB NO.:
TR/2022/4

CHECKED BY:
ELVIS ASIEDU

SHEET
NO:
A03

DATE: 7/20/2022 6:57:18 PM



LEGEND

- New wall to be introduced
- Existing wall to be maintained
- New column to be introduced
- Existing column to be maintained
- New Windows to be Installed
- Existing Windows to be replaced with new windows
- Existing Windows to be removed
- Existing Doors to be maintained
- New Windows to be Installed
- Existing door to be removed

NOTES

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**Carefully remove demolished works, clear and dispose debris off-site and make good of all defects. all materials for re-use shall be protected and remain the property of the client.*

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LOCATION: PULMAKOM

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION

SHEET
TITLE:
**GROUND FLOOR PLAN
(PROPOSED)**

DESIGNED BY:
ELVIS. A

SCALE:
As indicated

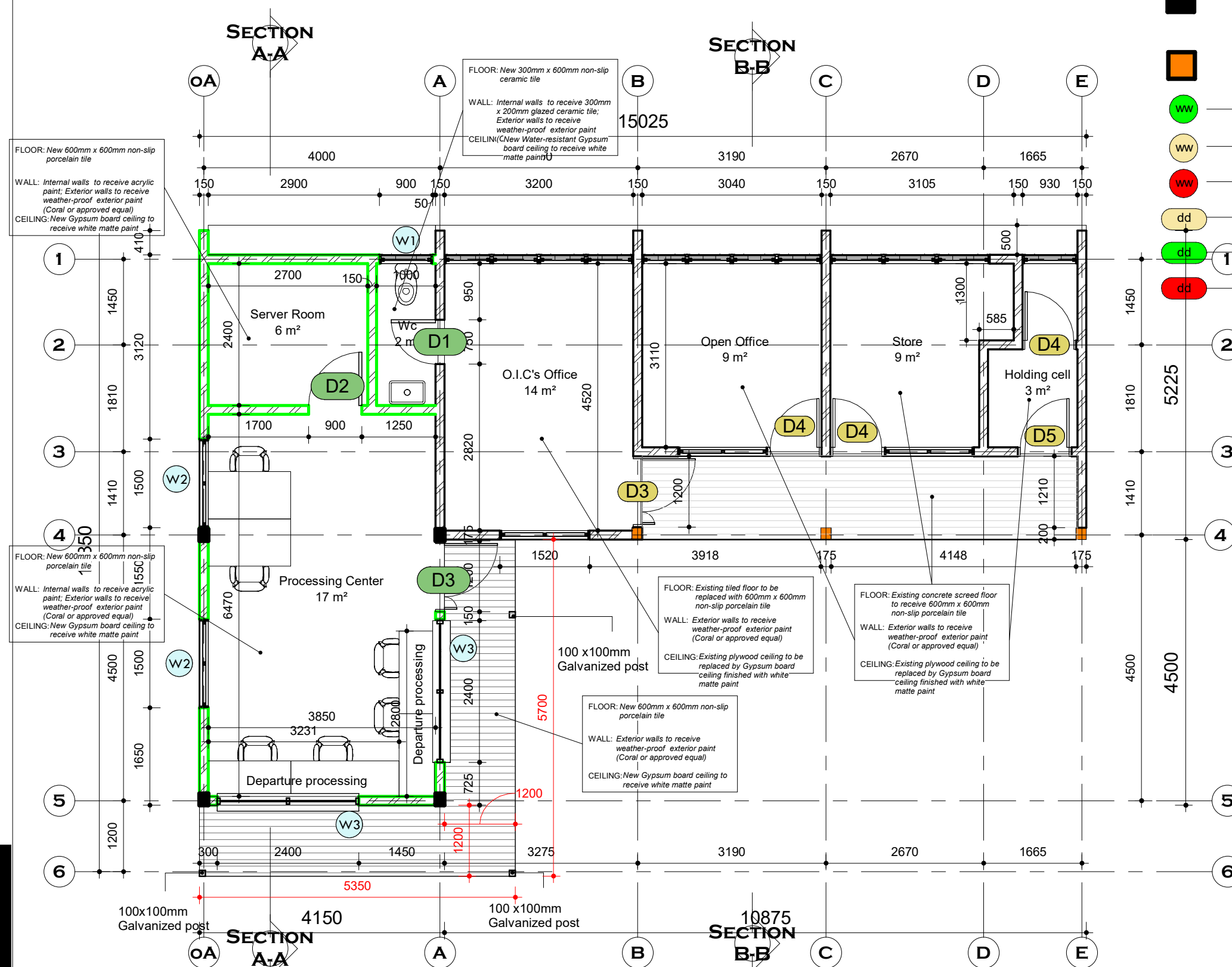
DRAWN BY:
George Hughes

JOB NO.:
TR/2022/4

CHECKED BY:
ELVIS ASIEDU

SHEET
NO:
A04

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Ground floor Plan

1:75

NOTES

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HYGINE (WASH) FACILITY AND
RENOVATION OF EXISTING BORDER POST
LOCATION: PULMAKOM

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION

SHEET
TITLE:
ROOF PLAN

DESIGNED BY:
ELVIS. A

DRAWN BY:
George Hughes

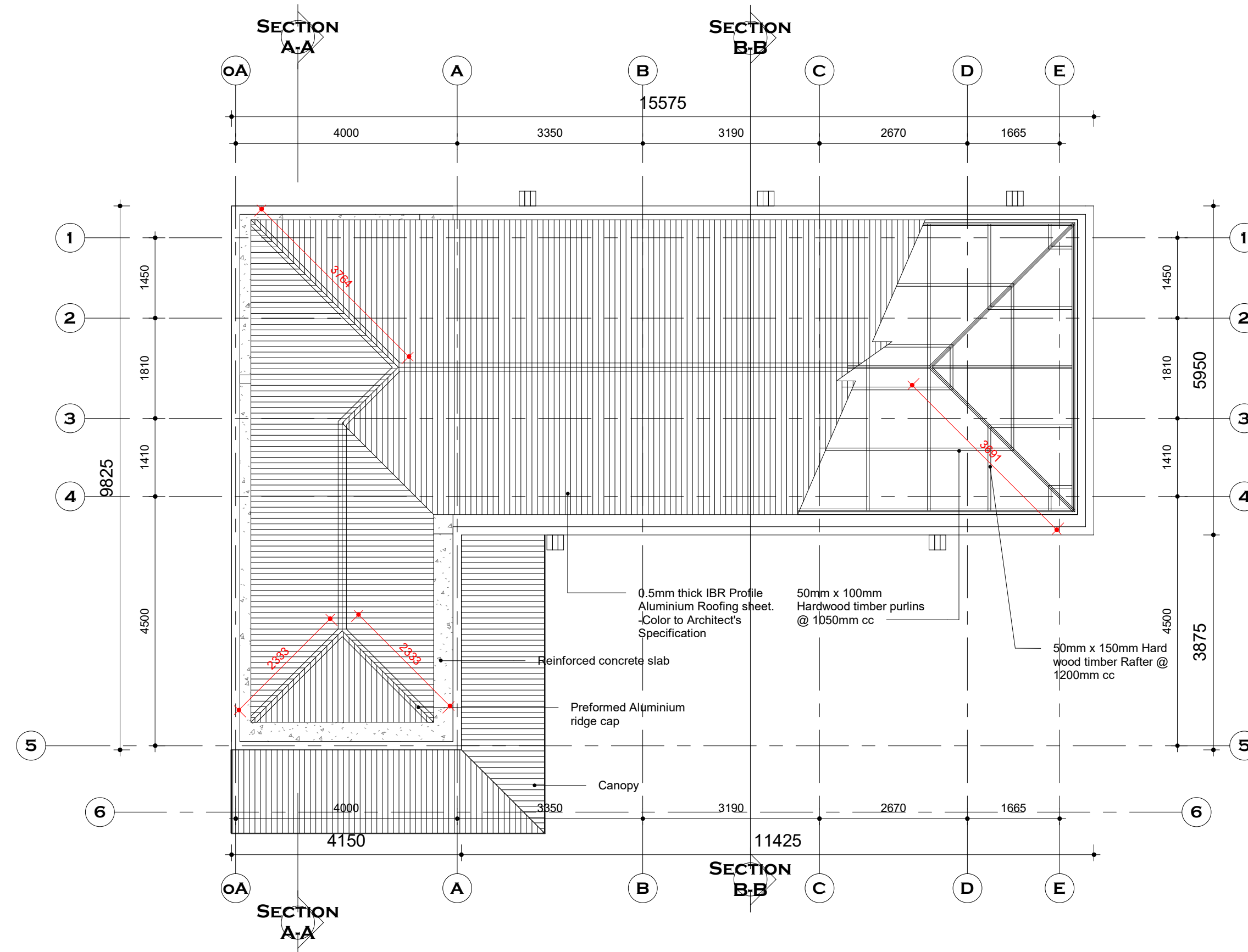
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DATE: 7/20/2022 6:57:20 PM

SCALE:
1 : 75

JOB NO.:
TR/2022/4

SHEET
NO:
A05



1 Roof Plan
1 : 75

NOTES

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HYGINE (WASH) FACILITY AND
RENOVATION OF EXISTING BORDER POST
LOCATION: PULMAKOM

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION

SHEET
TITLE:
SECTION A-A

DESIGNED BY:
ELVIS. A

DRAWN BY:
George Hughes

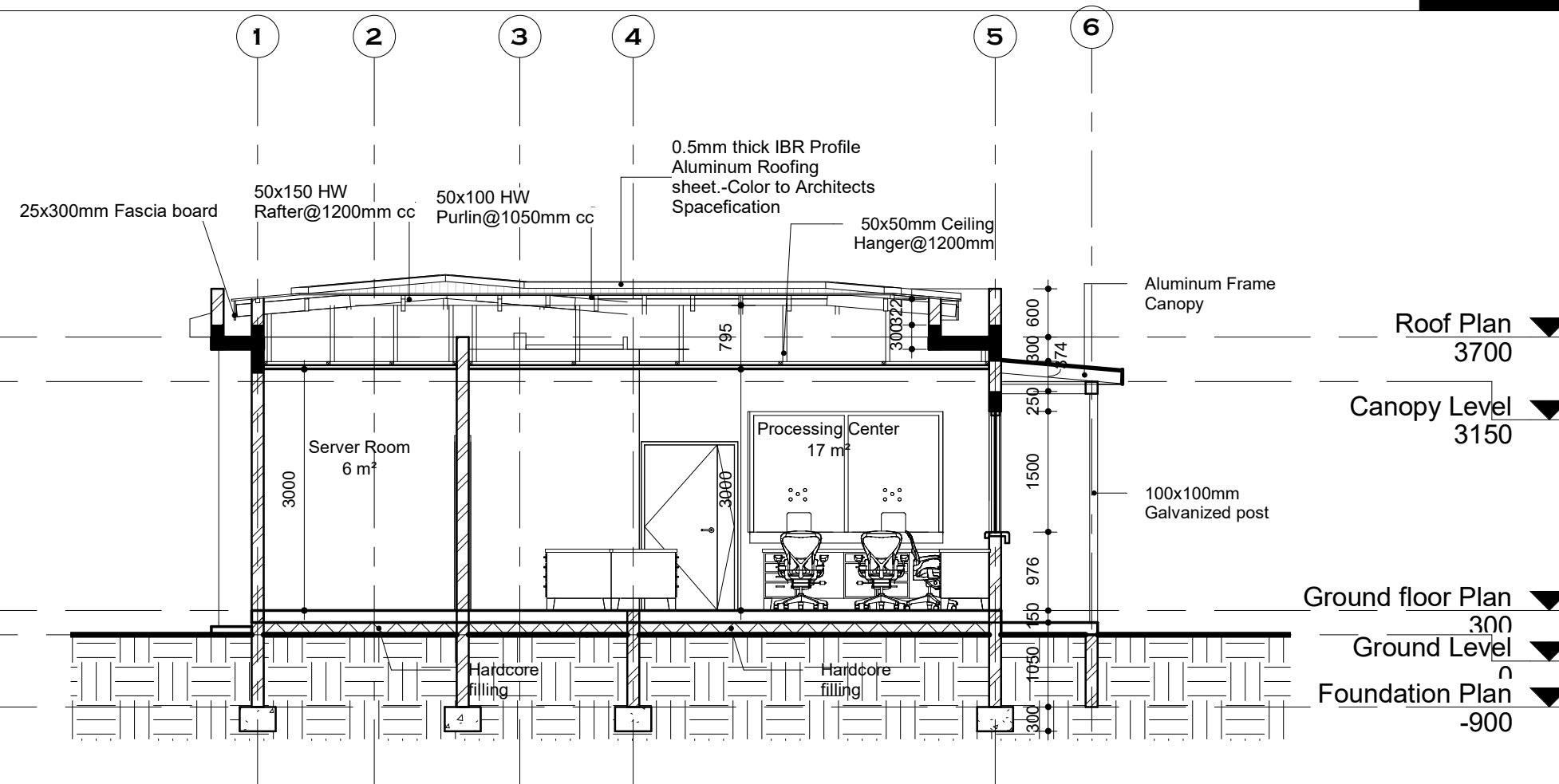
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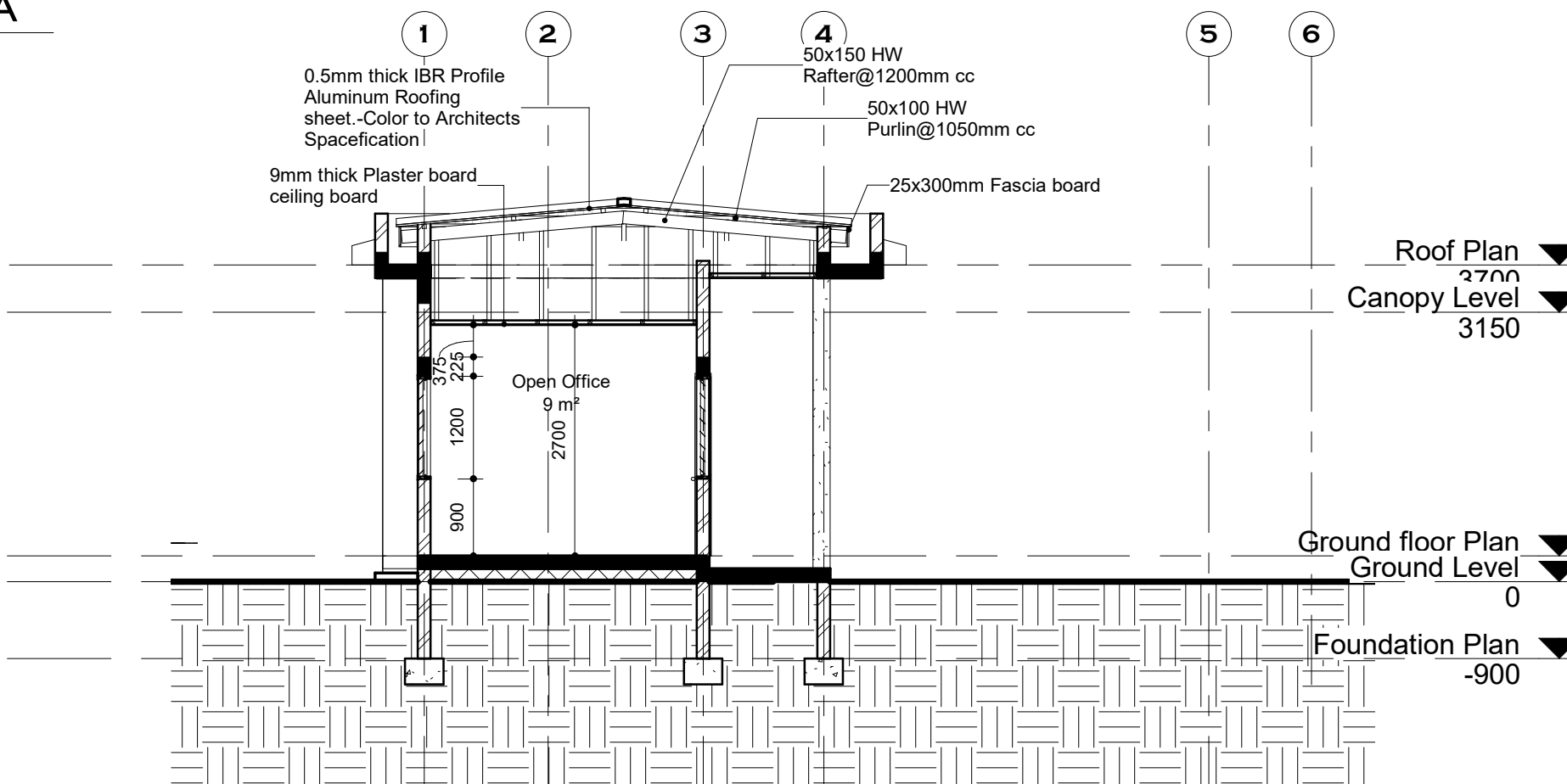
SCALE:
1 : 75

JOB NO.:
TR/2022/4

SHEET
NO:
A06



2 Section A-A
1 : 75



1 Section B-B
1 : 75

NOTES

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RENOVATION OF EXISTING BORDER POST
LOCATION: PULMAKOM

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION

SHEET
TITLE:
ELEVATIONS

DESIGNED BY:
ELVIS. A

DRAWN BY:
George Hughes

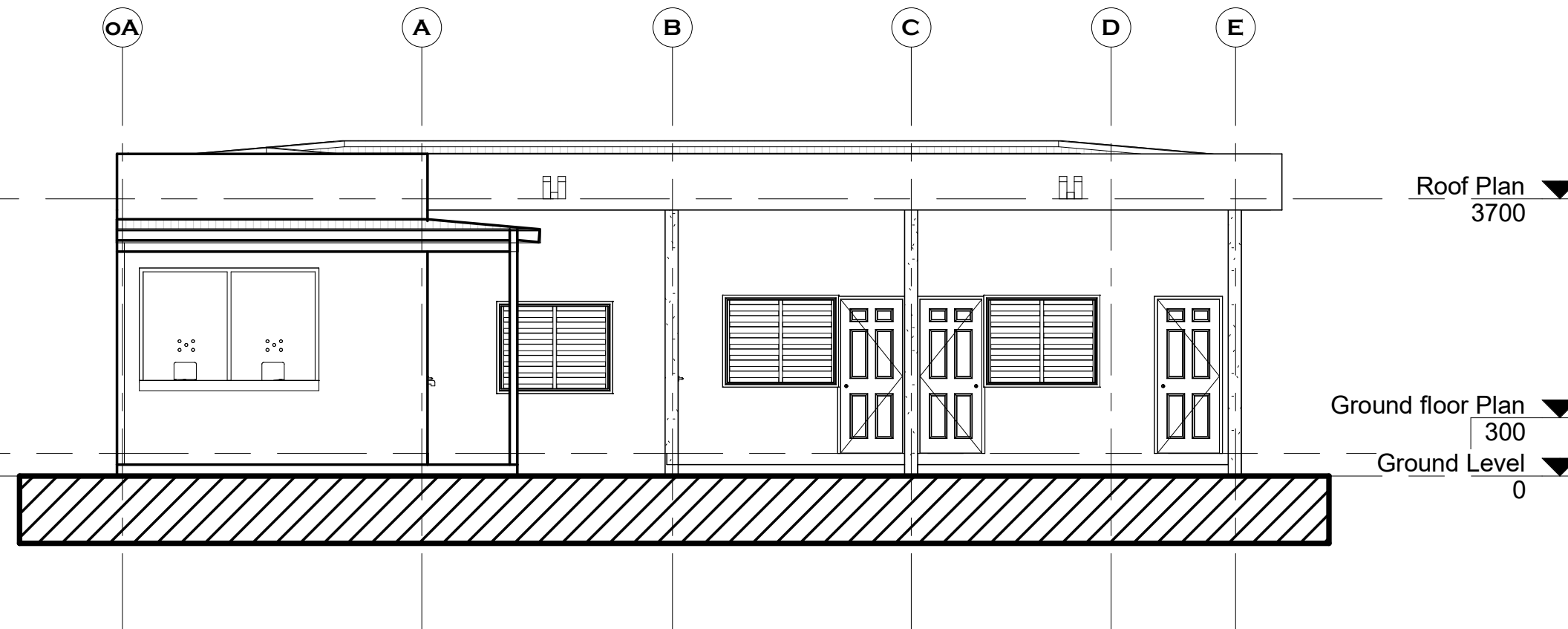
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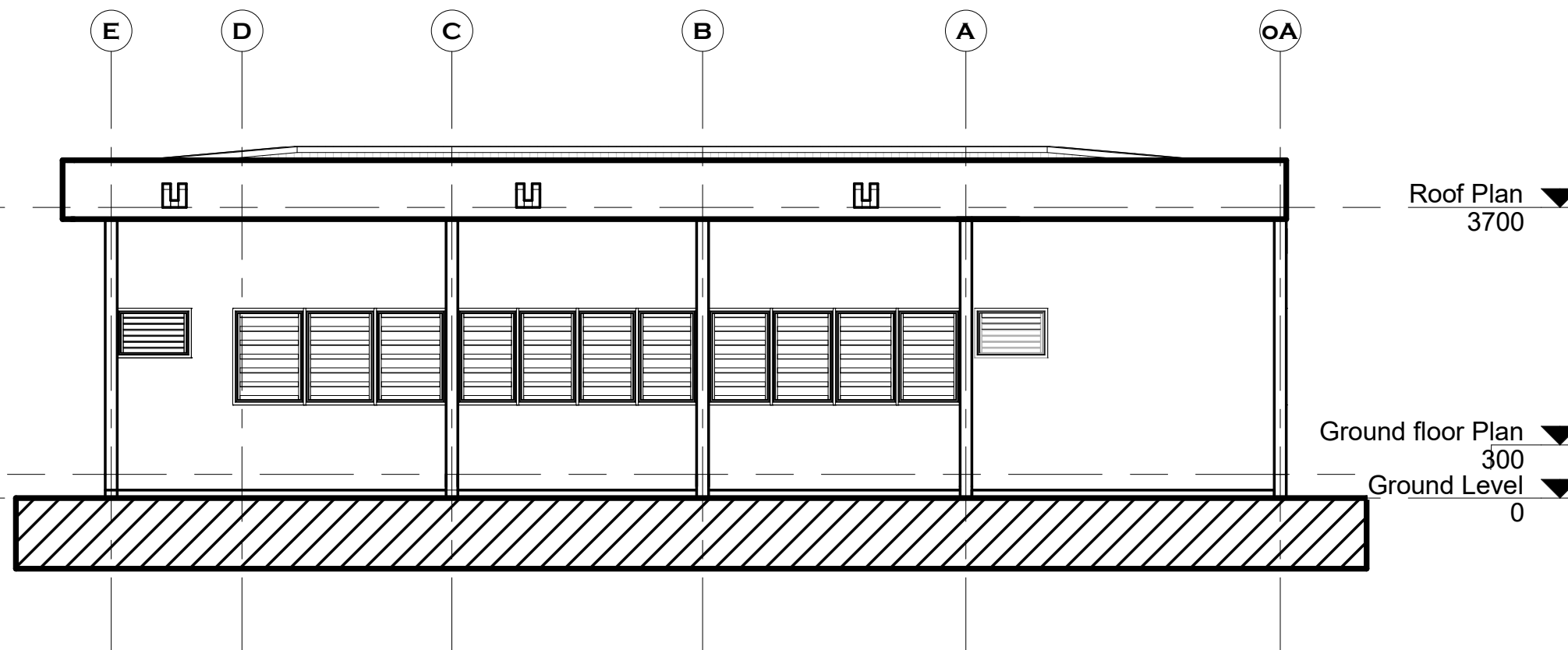
SCALE:
1 : 75

JOB NO.:
TR/2022/4

SHEET
NO:
A07



② South elevation
1 : 75



① North elevation
1 : 75

NOTES

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LOCATION: PULMAKOM

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION

SHEET
TITLE:
ELEVATIONS

DESIGNED BY:
ELVIS. A

SCALE:
1 : 75

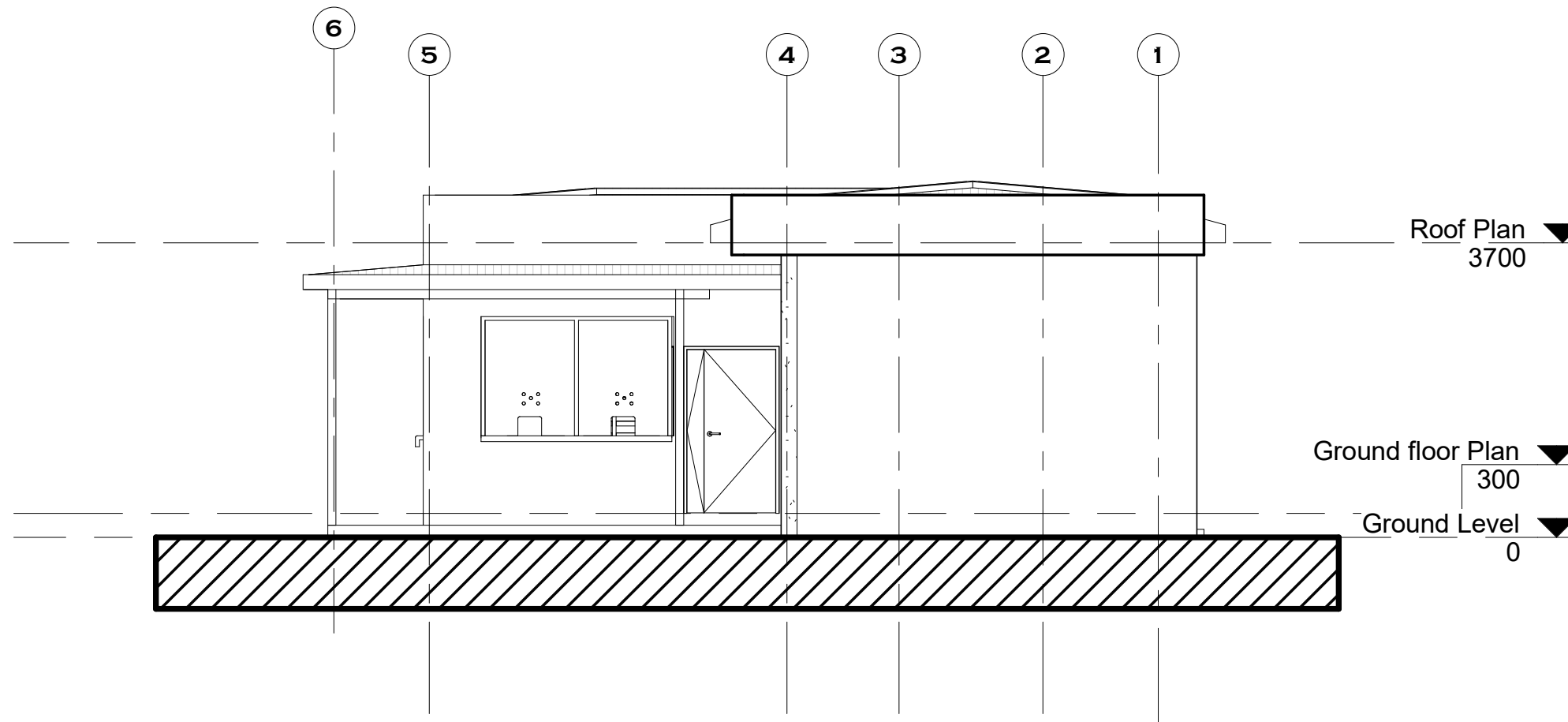
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George Hughes

JOB NO.:
TR/2022/4

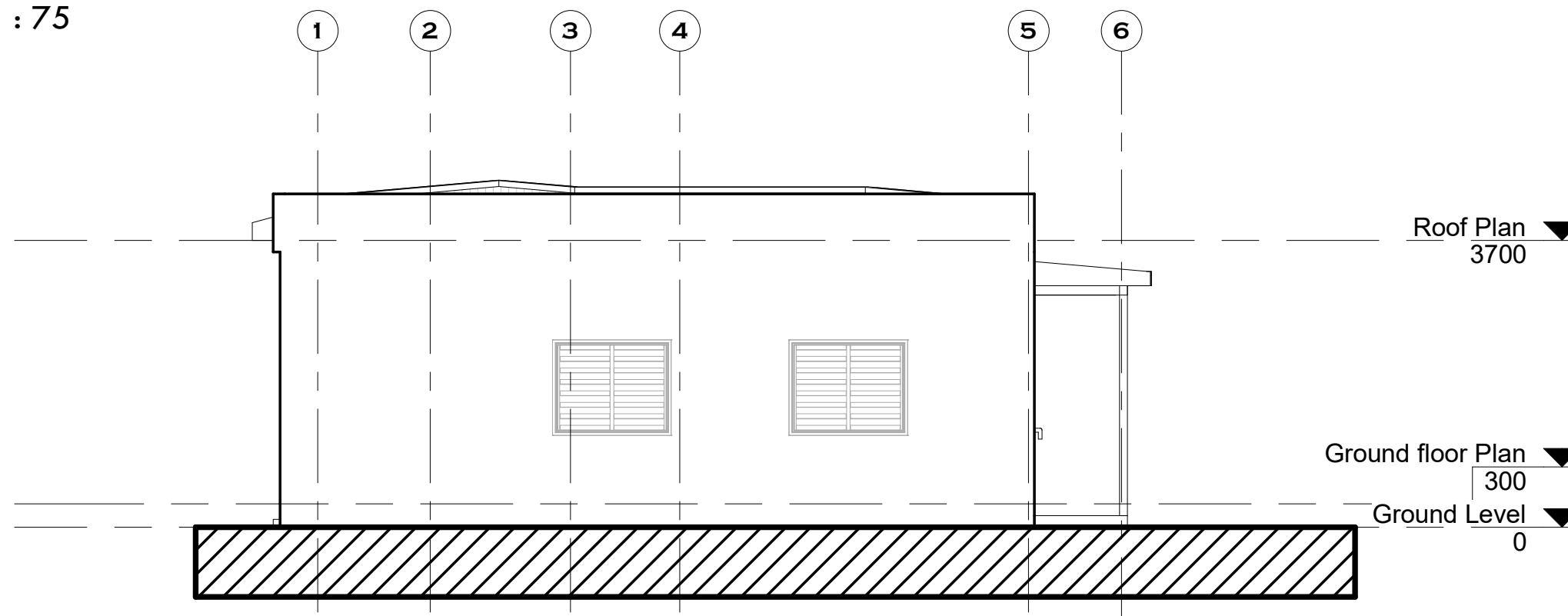
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ELVIS ASIEDU

SHEET
NO:
A08

DATE: 7/20/2022 6:57:24 PM



1 East elevation
1 : 75



2 West elevation
1 : 75

NOTES

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HYGINE (WASH) FACILITY AND
RENOVATION OF EXISTING BORDER POST
LOCATION: PULMAKOM

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION

SHEET
TITLE:
DOOR & WINDOW
SCHEDULES

DESIGNED BY:
ELVIS. A

SCALE:
1 : 50

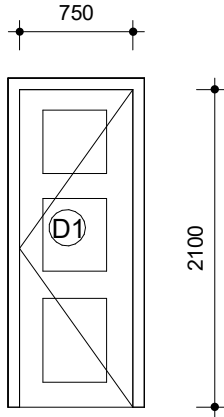
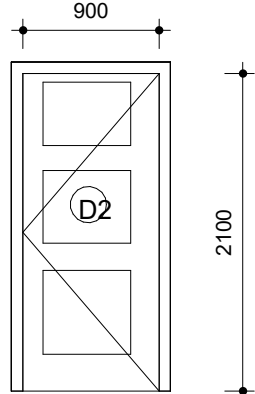
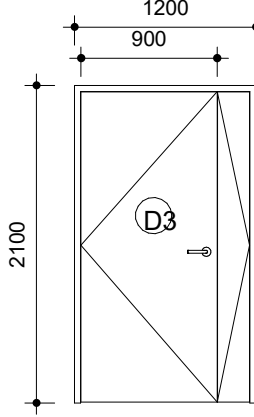
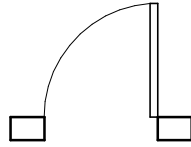
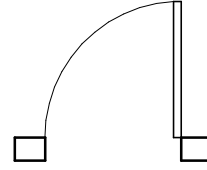
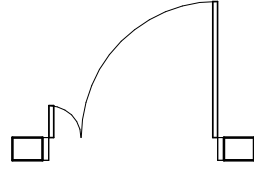
DRAWN BY:
George Hughes

JOB NO.:
TR/2022/4

CHECKED BY:
ELVIS ASIEDU

SHEET
NO:
A09

DATE: 7/20/2022 6:57:24 PM

		
		
Hardwood solid-core panel hinged single door	Single leaf security door with 1 hr Fire-proof rating	Double leaf uneven security door with 1 hr Fire-proof rating
QTY: 1	QTY: 1	QTY: 1

NOTES

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REVISIONS

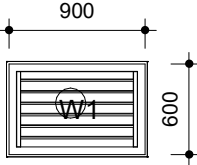
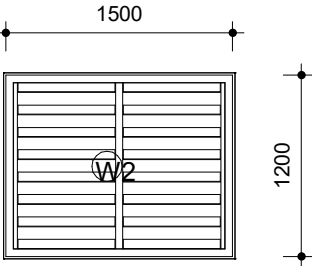
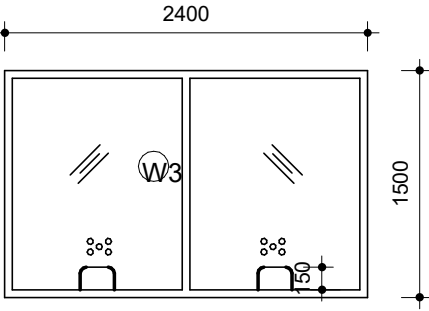
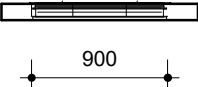
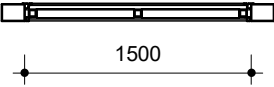
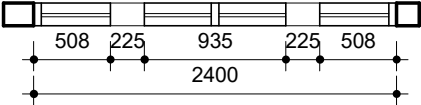
DATE	DESCRIPTION

PROJECT:
PROPOSED WATER, SANITATION AND
HYGINE (WASH) FACILITY AND
RENOVATION OF EXISTING BORDER POST
LOCATION: PULMAKOM

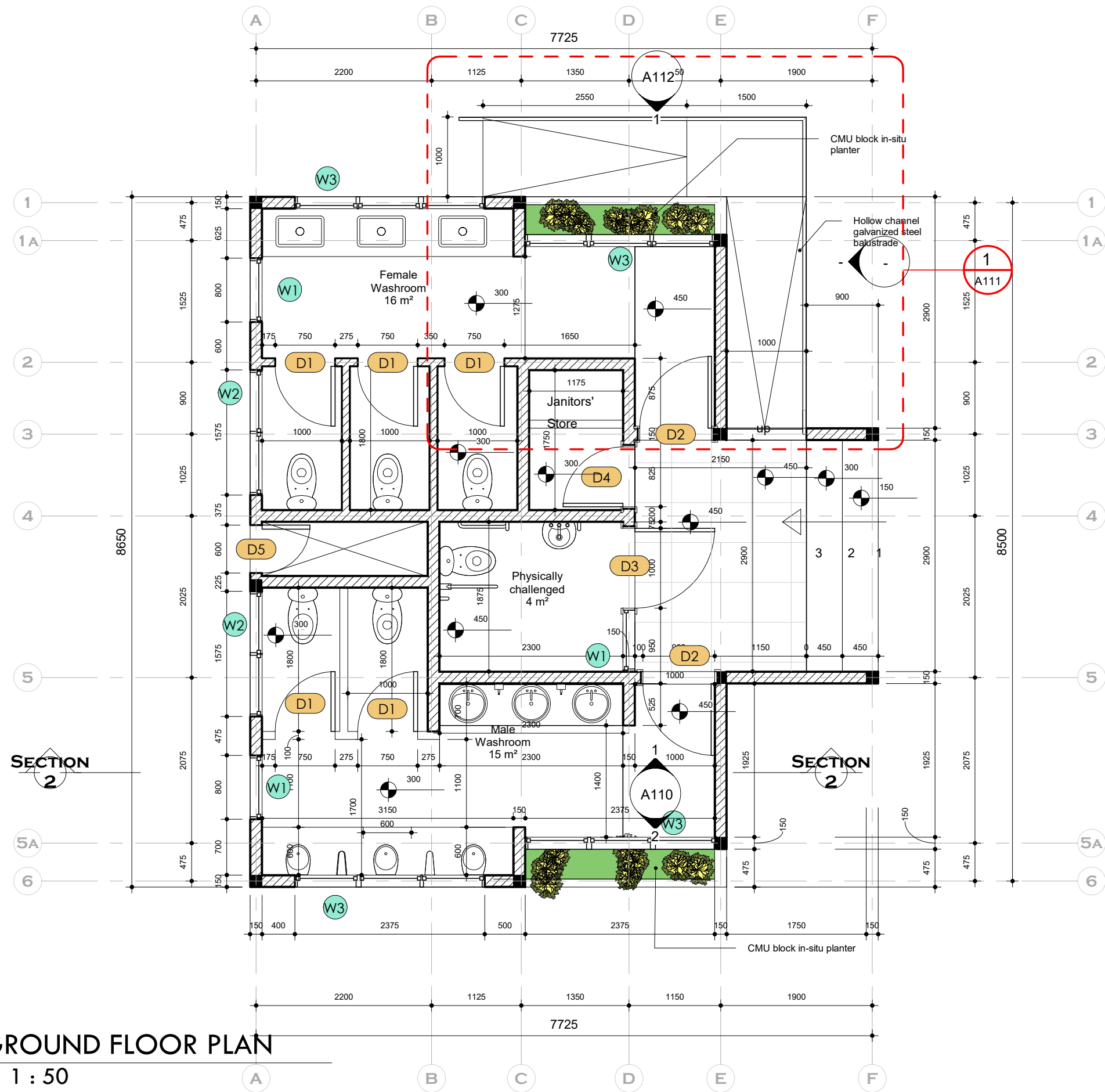
CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION

SHEET
TITLE:
DOOR & WINDOW
SCHEDULES

DESIGNED BY: ELVIS. A	SCALE: 1 : 50
DRAWN BY: George Hughes	JOB NO.: TR/2022/4
CHECKED BY: ELVIS ASIEDU	SHEET NO: A10
DATE: 7/20/2022 6:57:25 PM	

		
		
BAY ALUMINUM FRAME LOUVRE BLADE WINDOW	2 BAY ALUMINUM FRAME LOUVRE BLADE WINDOW	2 BAY ALUMINUM FRAME FIXED WINDOW WITH OPENS
QTY: 1	QTY: 2	QTY: 2

WASH FACILITY



1 GROUND FLOOR PLAN
1 : 50

NOTES

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REVISIONS

DATE	DESCRIPTION

PROJECT:
PROPOSED WATER, SANITATION
AND RENOVATION OF EXISTING
BORDER POST

LOCATION:

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE:
GROUND FLOOR PLAN

DESIGNED BY:
Elvis Asiedu

DRAWN BY:
George Hughes

CHECKED BY:
Elvis Asiedu

DATE: 7/20/2022 8:37:26 AM

SCALE:
1 : 50

JOB NO.:
TR/2022/11

SHEET
NO:
A102

NOTES

DO NOT MEASURE DIRECTLY FROM DRAWINGS.

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REVISIONS

DATE	DESCRIPTION

PROJECT:
PROPOSED WATER, SANITATION
AND RENOVATION OF EXISTING
BORDER POST

LOCATION:

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE:
ROOF PLAN

DESIGNED BY:
Elvis Asiedu

DRAWN BY:
George Hughes

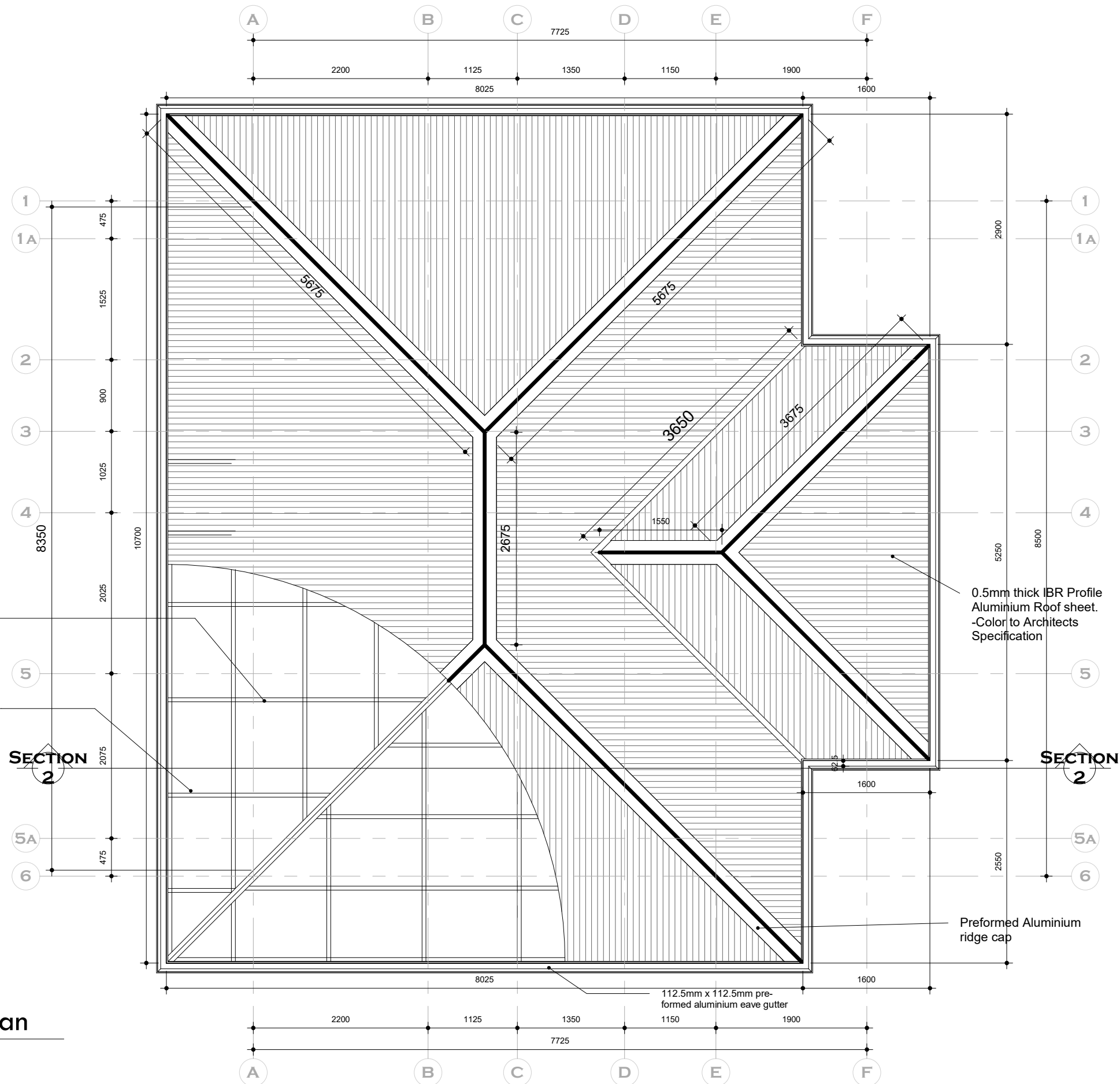
CHECKED BY:
Elvis Asiedu

DATE:7/20/2022 8:37:26 AM

SCALE:
1 : 50

JOB NO.:
TR/2022/11

SHEET
NO:
A103



1 Roof Plan
1 : 50

NOTES

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PROPOSED WATER, SANITATION
AND RENOVATION OF EXISTING
BORDER POST

LOCATION:

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE:
SECTIONS

DESIGNED BY:
Elvis Asiedu

SCALE:
1 : 50

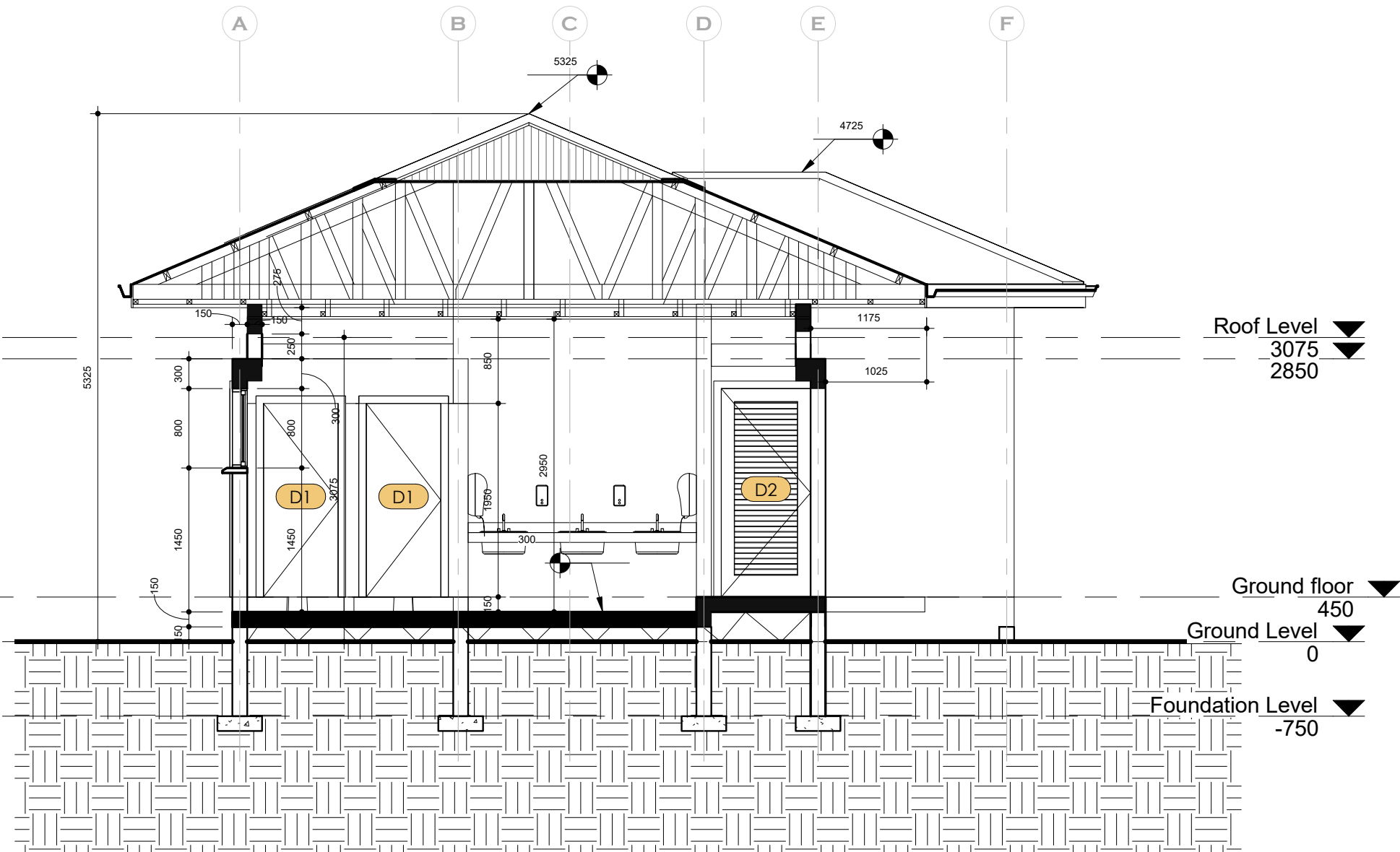
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George Hughes

JOB NO.:
TR/2022/11

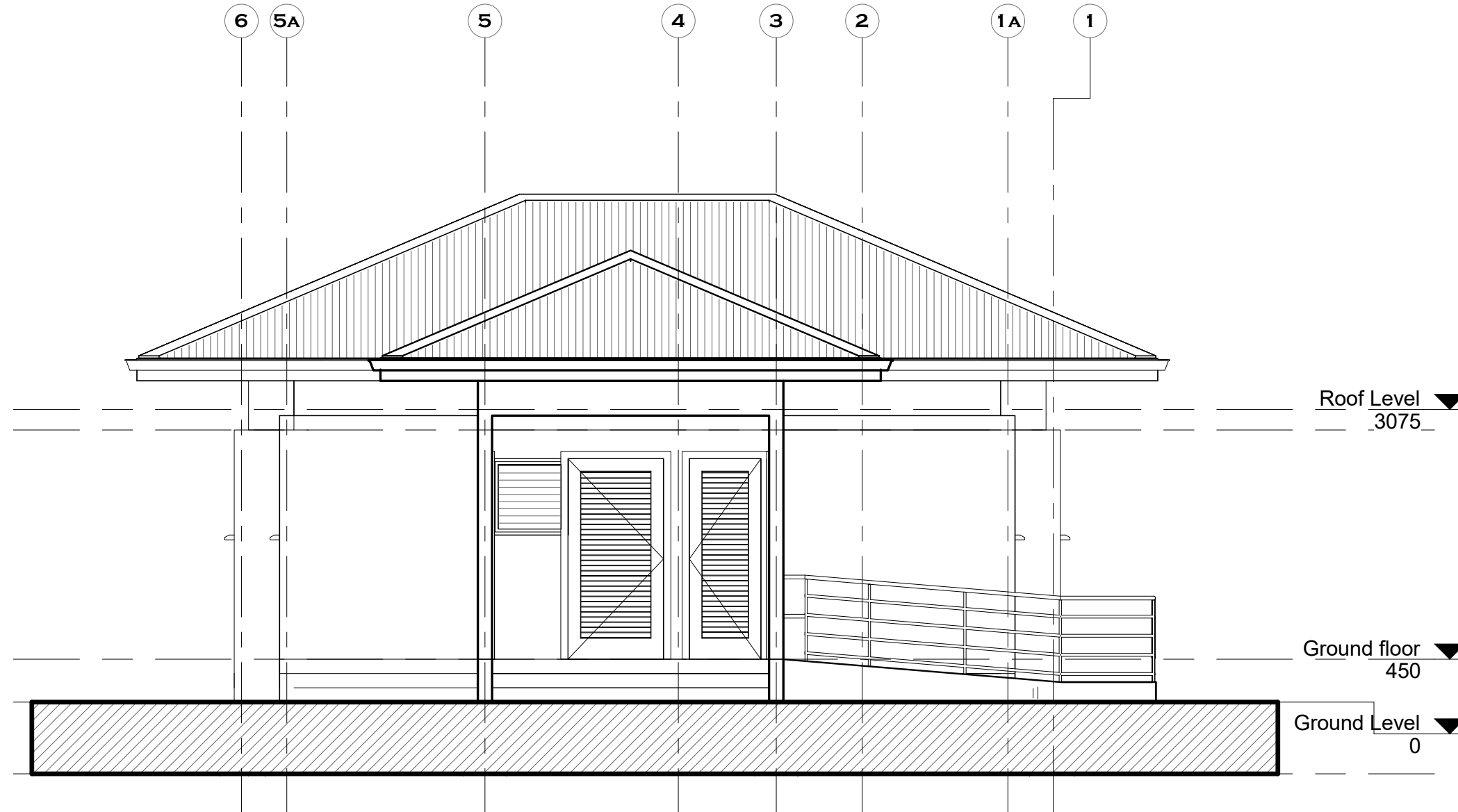
CHECKED BY:
Elvis Asiedu

SHEET
NO:
A104

DATE:7/20/2022 8:37:27 AM



1 Section 2
1 : 50



1 East elevation
1 : 50

NOTES

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PROJECT:
PROPOSED WATER, SANITATION
AND RENOVATION OF EXISTING
BORDER POST

LOCATION:

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE:
ELEVATIONS

DESIGNED BY:
Elvis Asiedu

DRAWN BY:
George Hughes

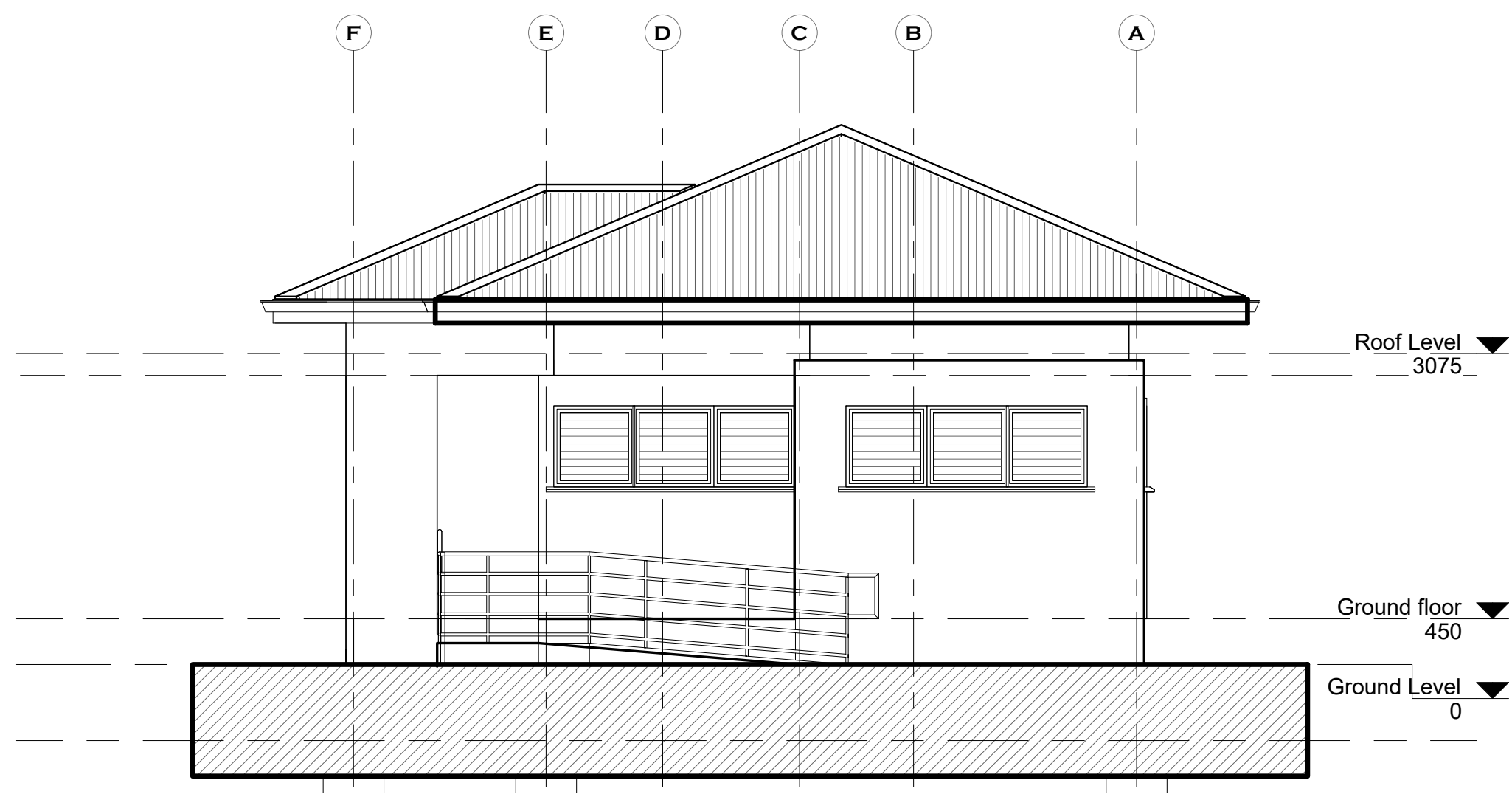
CHECKED BY:
Elvis Asiedu

DATE:7/20/2022 8:37:27 AM

SCALE:
1 : 50

JOB NO.:
TR/2022/11

SHEET
NO:
A105



① North elevation
1 : 50

NOTES

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AND RENOVATION OF EXISTING
BORDER POST
LOCATION:

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE:
ELEVATIONS

DESIGNED BY:
Elvis Asiedu

SCALE:
1 : 50

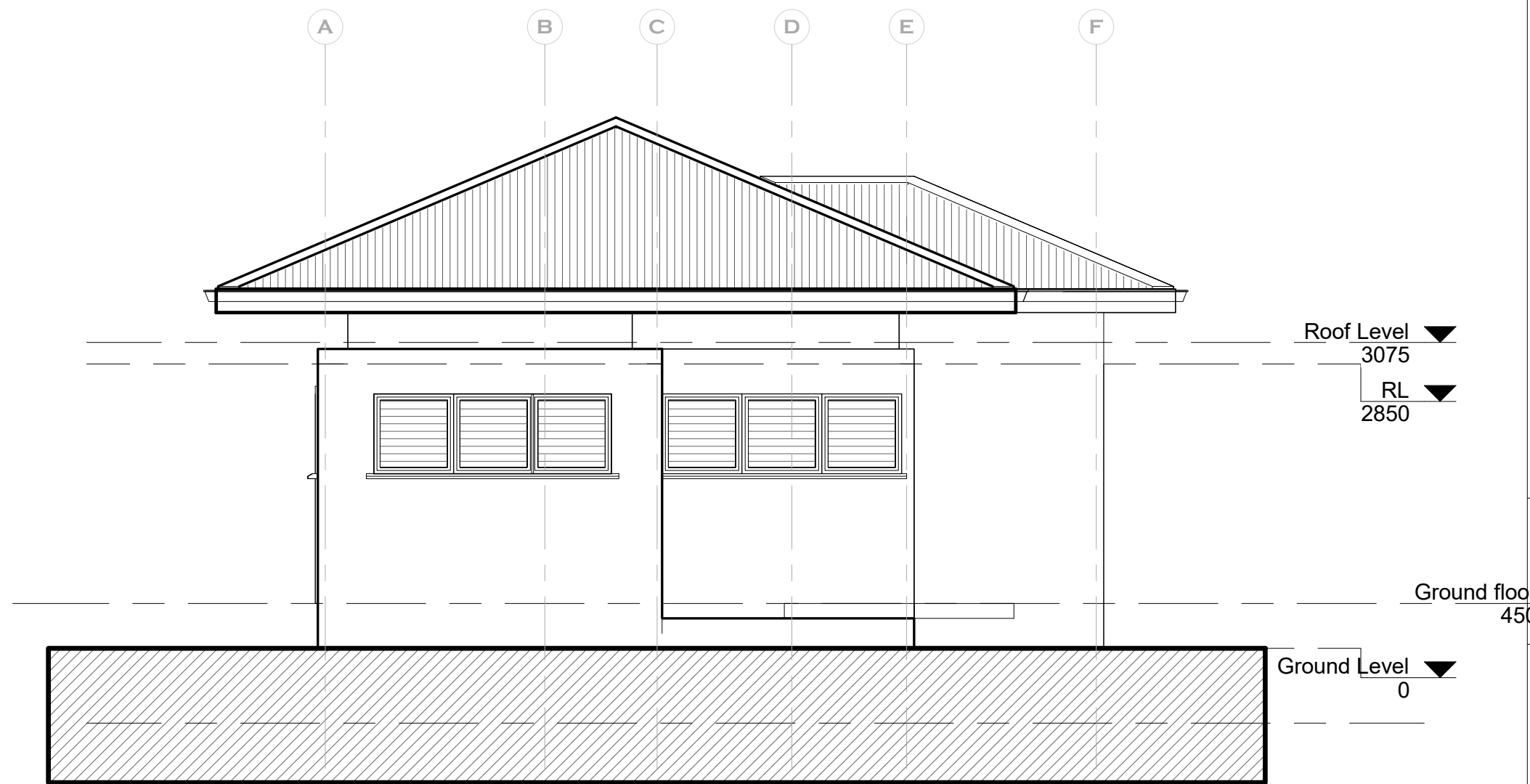
DRAWN BY:
George Hughes

JOB NO.:
TR/2022/11

CHECKED BY:
Elvis Asiedu

SHEET
NO:
A106

DATE:7/20/2022 8:37:28 AM



① South elevation
1 : 50

NOTES

DO NOT MEASURE DIRECTLY FROM DRAWINGS.

IF IN DOUBT, CONSULT THE ARCHITECT.

ALL DIMENSIONS ARE IN MILLIMETERS.

DO NOT DUPLICATE THE DRAWINGS WITHOUT THE CONSENT OF THE ARCHITECT

REVISIONS

DATE	DESCRIPTION

PROJECT:
PROPOSED WATER, SANITATION
AND RENOVATION OF EXISTING
BORDER POST

LOCATION:

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE:
ELEVATIONS

DESIGNED BY:
Elvis Asiedu

SCALE:
1 : 50

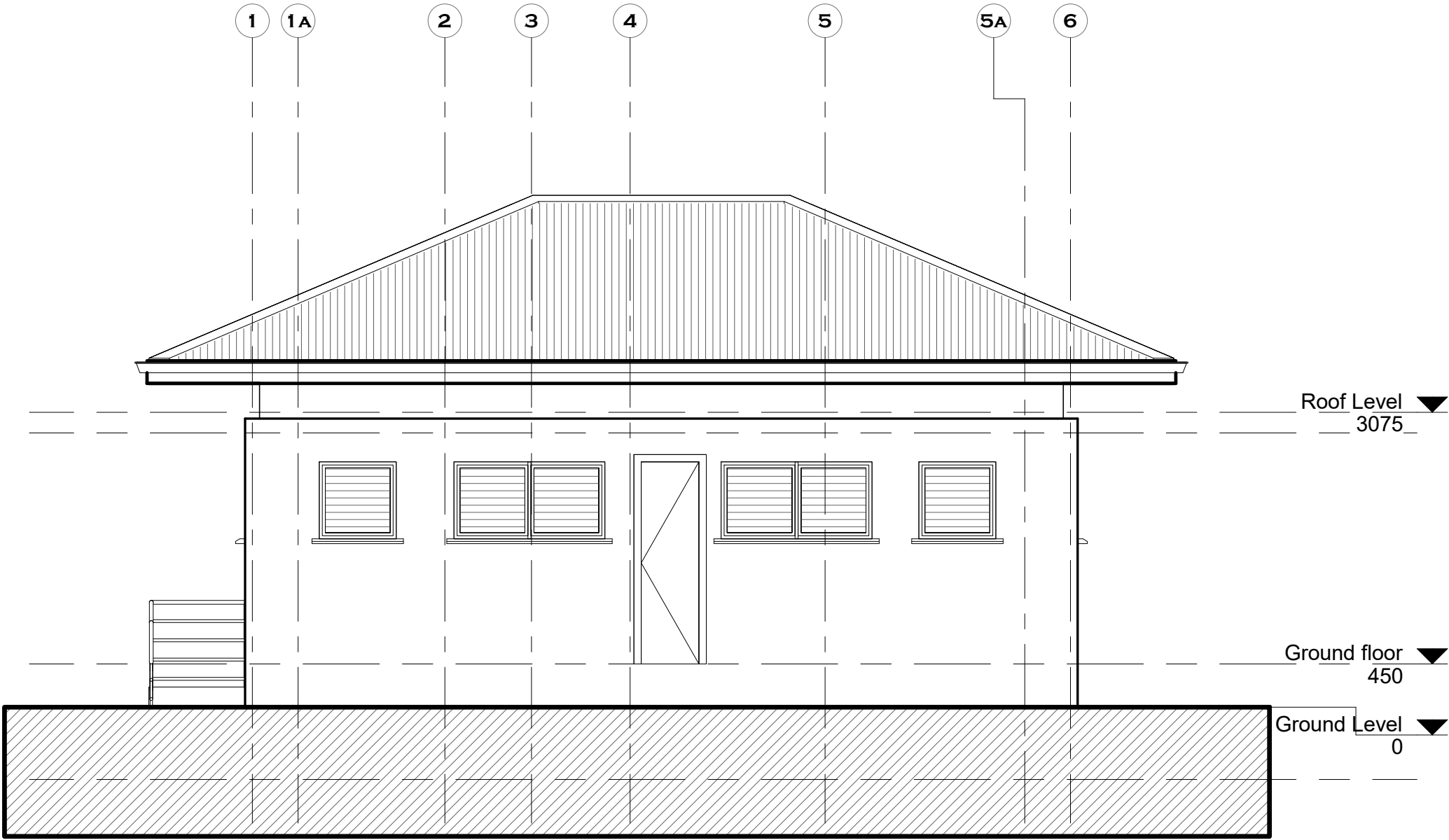
DRAWN BY:
George Hughes

JOB NO.:
TR/2022/11

CHECKED BY:
Elvis Asiedu

SHEET
NO:
A107

DATE:7/20/2022 8:37:28 AM



1 West elevation
1 : 50

NOTES

DO NOT MEASURE DIRECTLY FROM DRAWINGS.

IF IN DOUBT, CONSULT THE ARCHITECT.

ALL DIMENSIONS ARE IN MILLIMETERS.

DO NOT DUPLICATE THE DRAWINGS WITHOUT THE CONSENT OF THE ARCHITECT

REVISIONS

DATE	DESCRIPTION

PROJECT:
PROPOSED WATER, SANITATION
AND RENOVATION OF EXISTING
BORDER POST

LOCATION:

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE:
ELEVATIONS

DESIGNED BY:
Elvis Asiedu

DRAWN BY:
George Hughes

CHECKED BY:
Elvis Asiedu

DATE:7/20/2022 8:37:28 AM

SCALE:
1 : 50

JOB NO.:
TR/2022/11

SHEET
NO:
A108

NOTES

DO NOT MEASURE DIRECTLY FROM DRAWINGS.

IF IN DOUBT, CONSULT THE ARCHITECT.

ALL DIMENSIONS ARE IN MILLIMETERS.

DO NOT DUPLICATE THE DRAWINGS WITHOUT THE CONSENT OF THE ARCHITECT

REVISIONS

DATE	DESCRIPTION

PROJECT:
PROPOSED WATER, SANITATION
AND RENOVATION OF EXISTING
BORDER POST

LOCATION:

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE:
DOOR AND WINDOW SCHEDULE

DESIGNED BY:
Elvis Asiedu

SCALE:
1 : 30

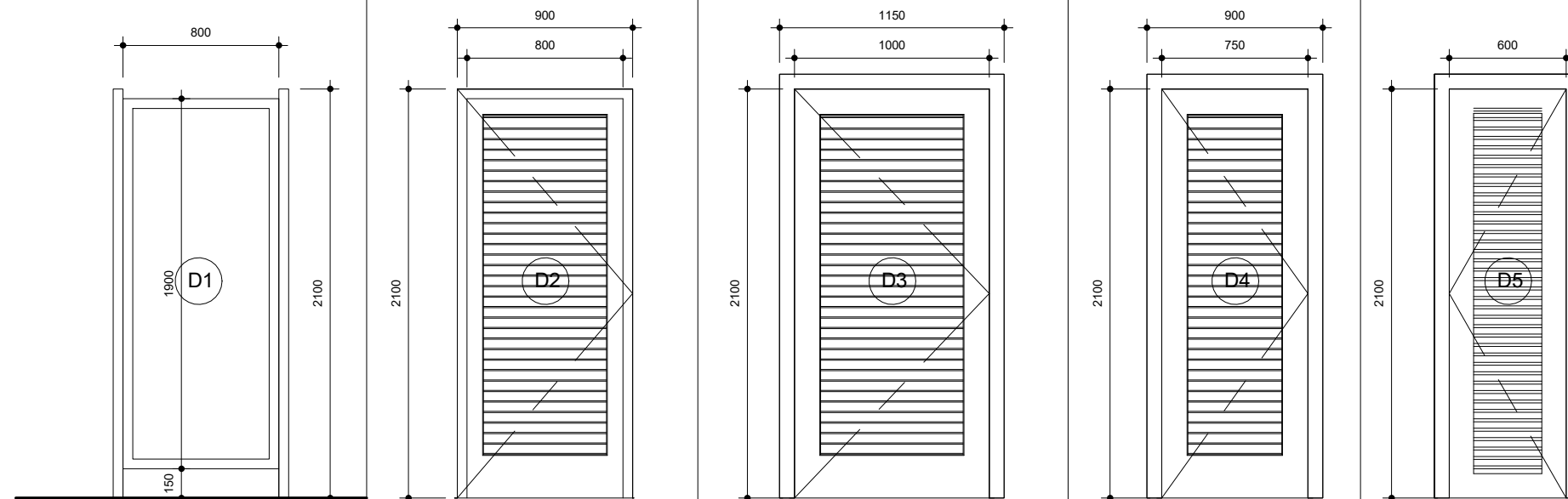
DRAWN BY:
George Hughes

JOB NO.:
TR/2022/11

CHECKED BY:
Elvis Asiedu

SHEET
NO:
A109

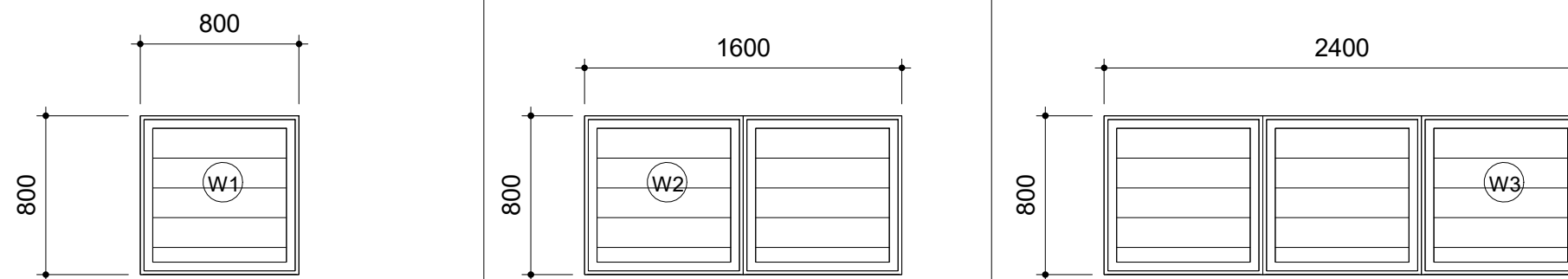
DATE: 7/20/2022 8:37:29 AM



Quantity	5	2	1	1	1
Material:	Aluminium jalousie door	Aluminium jalousie door	Aluminium jalousie door	Aluminium jalousie door	Galvanized steel jalousie door
Finish:	Sprayed Grey Semi-gloss oil paint	Sprayed Grey Semi-gloss oil paint	Sprayed Grey Semi-gloss oil paint	Sprayed Grey Semi-gloss oil paint	Sprayed Grey Semi-gloss oil paint
Locks:	indicator Locks	Stainless steel Mortise Lock to Architect's approval	Stainless steel Mortise Lock to Architect's approval	Stainless steel Mortise Lock to Architect's approval	Stainless steel Mortise Lock to Architect's approval

door schedule

1 : 30



Quantity	3	2	4
Material:	Aluminium frame window with opaque glass naco Louvre system	Aluminium frame window with opaque glass naco Louvre system	Aluminium frame window with opaque glass naco Louvre system
Finish:	Sprayed Grey Semi-gloss oil paint	Sprayed Grey Semi-gloss oil paint	Sprayed Grey Semi-gloss oil paint
Locks:	indicator Locks	Stainless steel Mortise Lock to Architect's approval	Stainless steel Mortise Lock to Architect's approval

window schedule

1 : 30

NOTES

DO NOT MEASURE DIRECTLY FROM DRAWINGS.

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DO NOT DUPLICATE THE DRAWINGS WITHOUT THE CONSENT OF THE ARCHITECT

REVISIONS

DATE	DESCRIPTION

PROJECT:
PROPOSED WATER, SANITATION
AND RENOVATION OF EXISTING
BORDER POST

LOCATION:

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE:
INTERIOR ELEVATIONS

DESIGNED BY:
Elvis Asiedu

DRAWN BY:
George Hughes

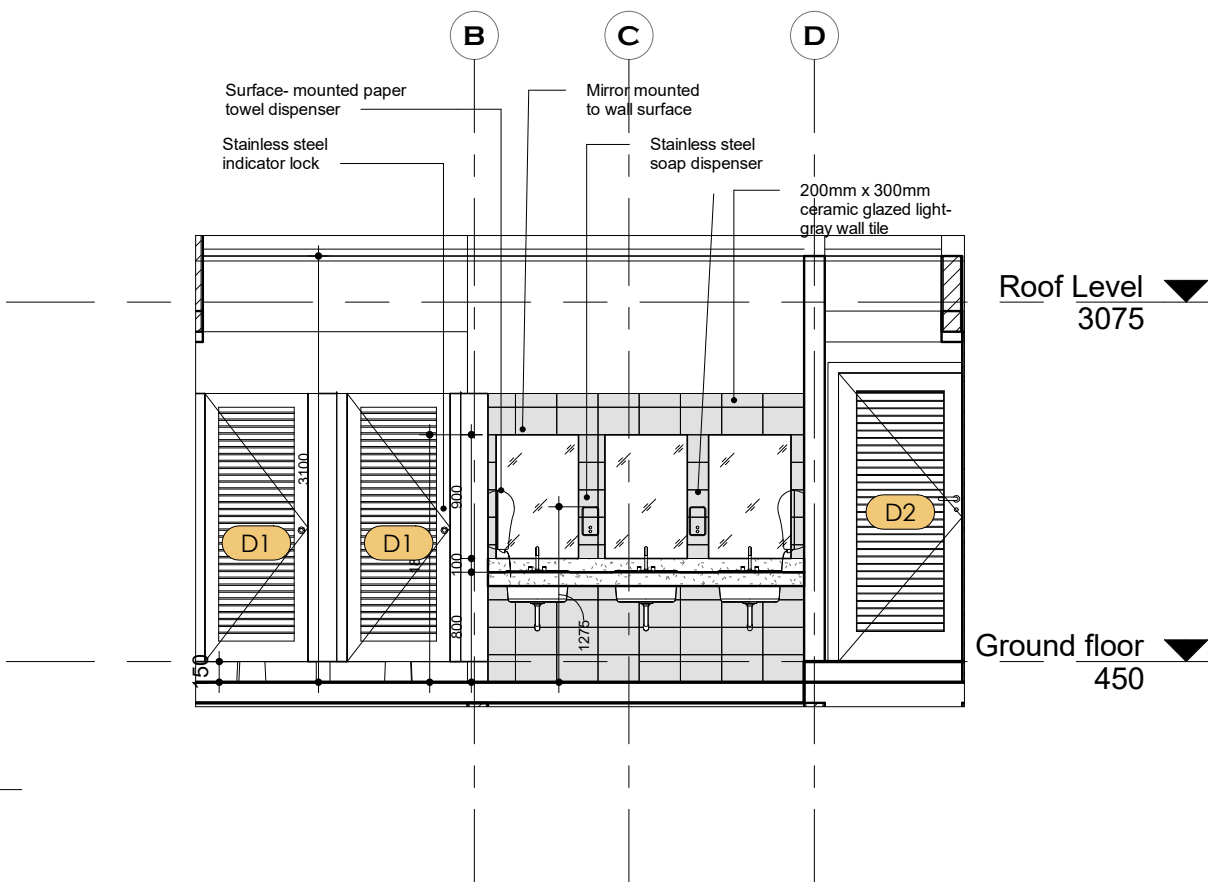
CHECKED BY:
Elvis Asiedu

DATE:7/20/2022 8:37:30 AM

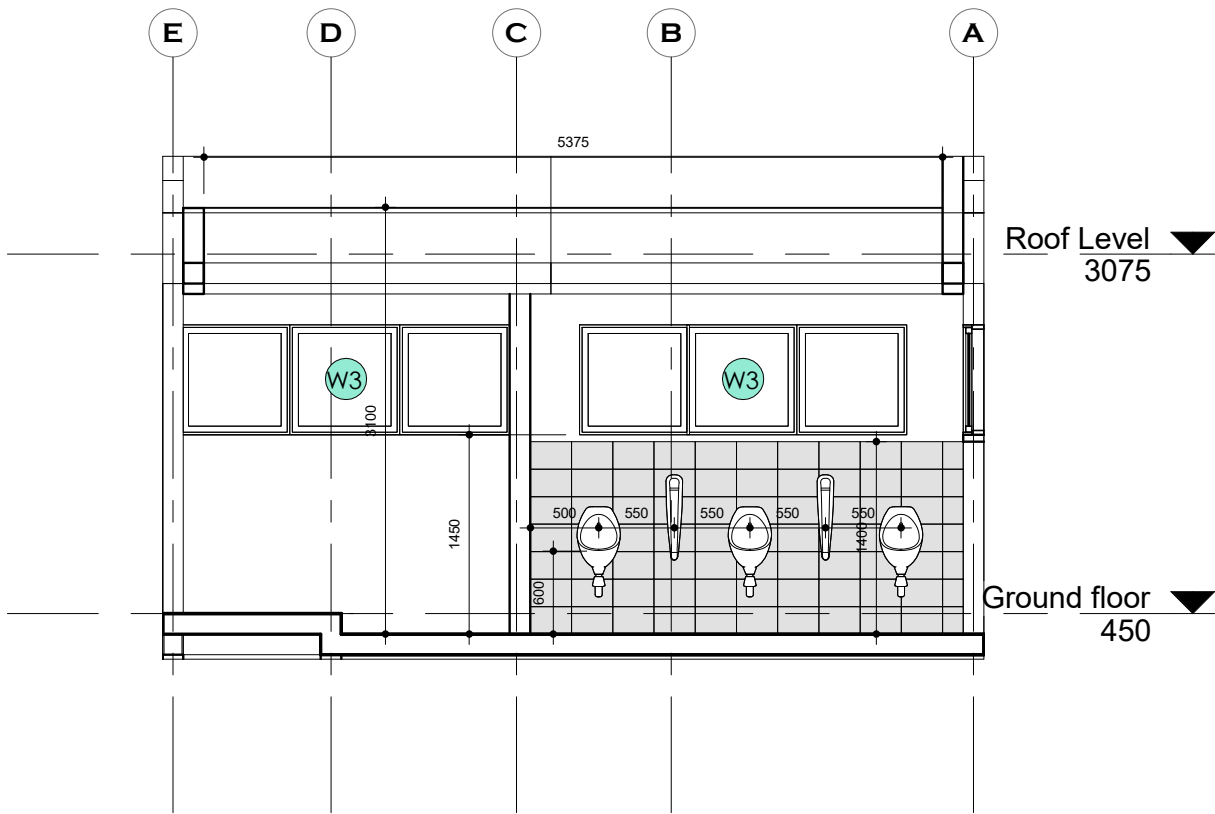
SCALE:
1 : 50

JOB NO.:
TR/2022/11

SHEET
NO:
A110



1 ELEVATION XX
1 : 50



2 ELEVATION YY
1 : 50

NOTES

DO NOT MEASURE DIRECTLY FROM DRAWINGS.

IF IN DOUBT, CONSULT THE ARCHITECT.

ALL DIMENSIONS ARE IN MILLIMETERS.

DO NOT DUPLICATE THE DRAWINGS WITHOUT THE CONSENT OF THE ARCHITECT

REVISIONS

DATE	DESCRIPTION

PROJECT:
PROPOSED WATER, SANITATION
AND RENOVATION OF EXISTING
BORDER POST

LOCATION:

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE:
BLAUSTRADE DETAILS

DESIGNED BY:
Elvis Asiedu

SCALE:
1 : 25

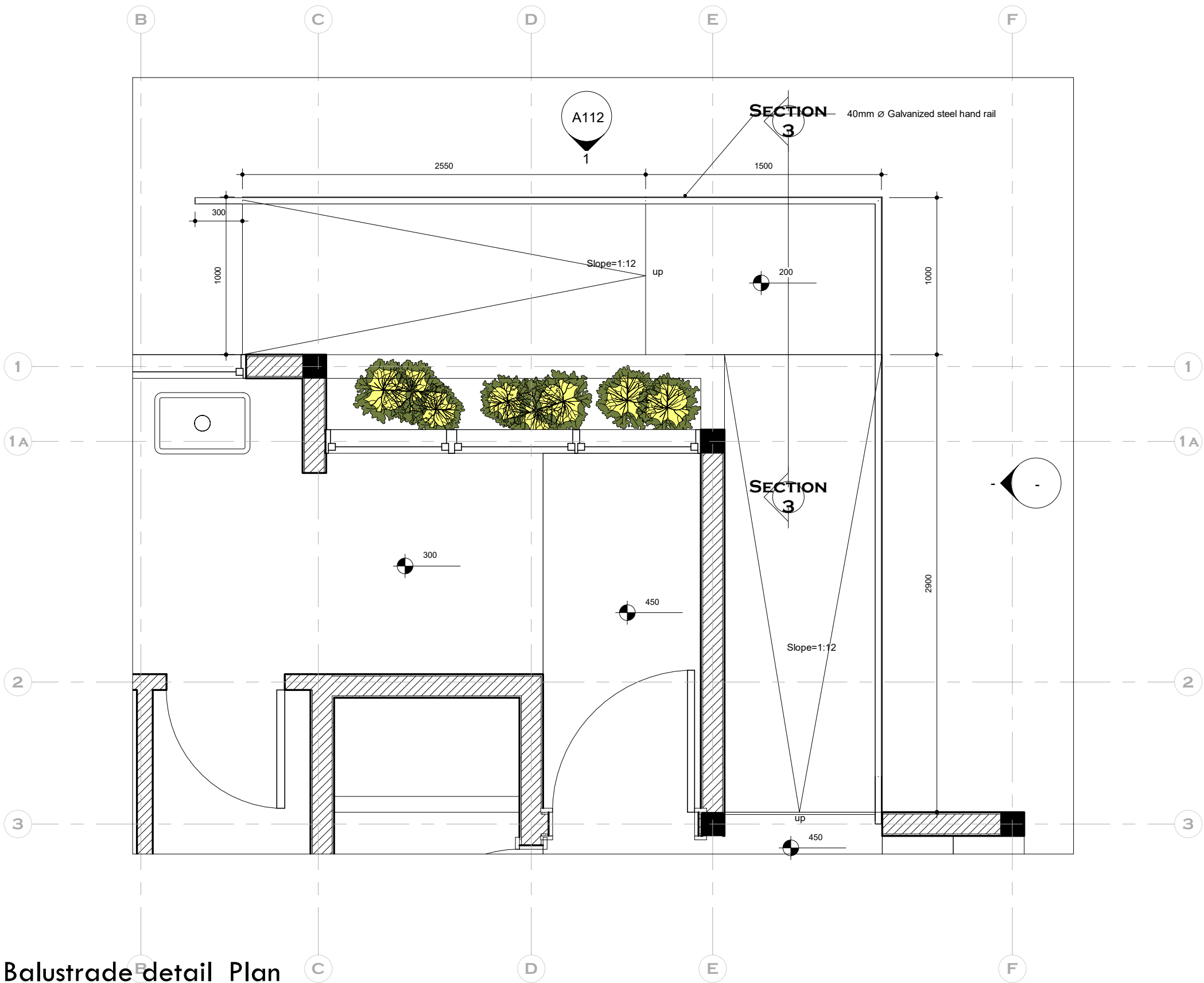
DRAWN BY:
George Hughes

JOB NO.:
TR/2022/11

CHECKED BY:
Elvis Asiedu

SHEET
NO:
A111

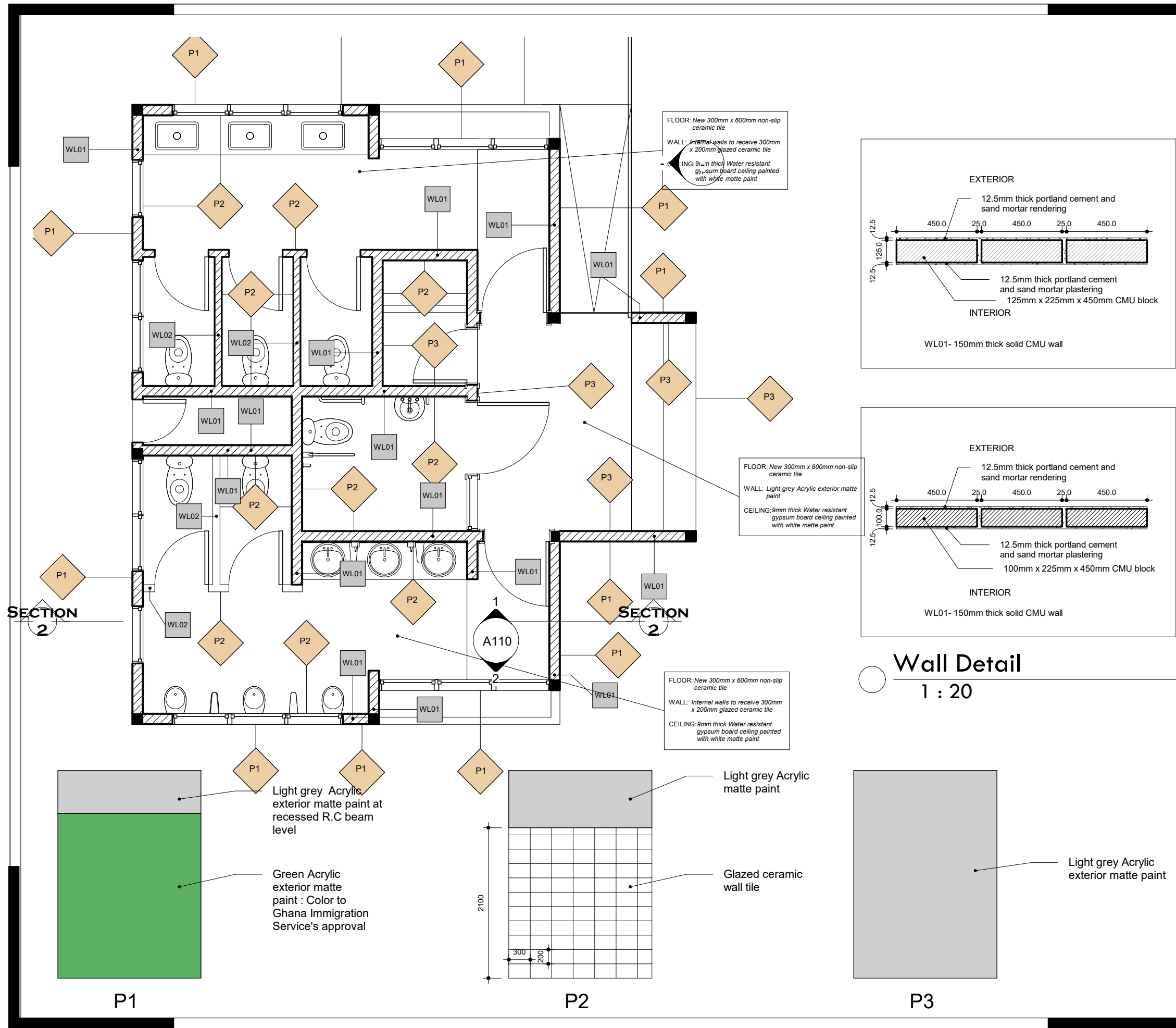
DATE:7/20/2022 8:37:31 AM



1 Balustrade detail_Plan
1 : 25



DATE: 7/20/2022 8:37:32 AM



NOTES

DO NOT MEASURE DIRECTLY FROM DRAWINGS.

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REVISIONS

DATE	DESCRIPTION

PROJECT: PROPOSED WATER, SANITATION AND RENOVATION OF EXISTING BORDER POST

LOCATION:

CLIENT: INTERNATIONAL ORGANIZATION FOR MIGRATION (IOM)

SHEET TITLE: FINISHES LAYOUT

DESIGNED BY: Elvis Asiedu

DRAWN BY: George Hughes

CHECKED BY: Elvis Asiedu

DATE: 7/20/2022 8:37:32 AM

SCALE: As indicated

JOB NO.: TR/2022/11

SHEET NO:

P 101

STRUCTURAL DRAWINGS

- Any specified product other than that recommended by the Structural Engineer should be accompanied by its Technical Literature for Structural Engineer's review and advice

- Where a non-slip surface is required to exposed concrete the surface is to be brushed with a stiff broom or wire brush while the concrete is still green, to produce a lightly textured surface.

- The slabs cast on ground will be cast above a polyethylene membrane

- The reinforcement must be anchored according to the Eurocodes and BS and relevant Ghanaian regulations. Minimum anchorage lapping length must be considered as 57ϕ for Laps, Tension Anchorages and Compression Anchorages.

 Vertical element (reinforced concrete) which starts or proceeds to the upper plan

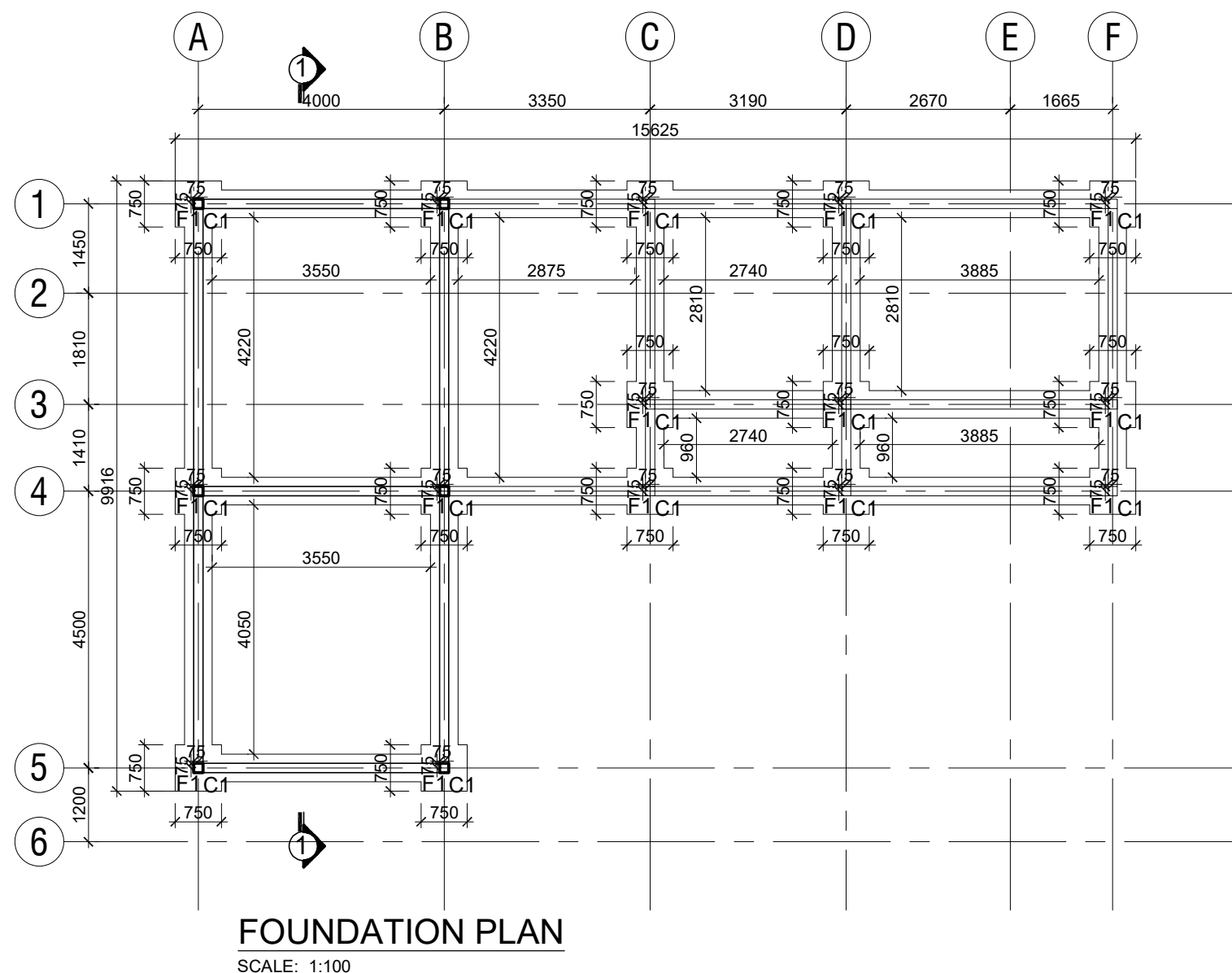
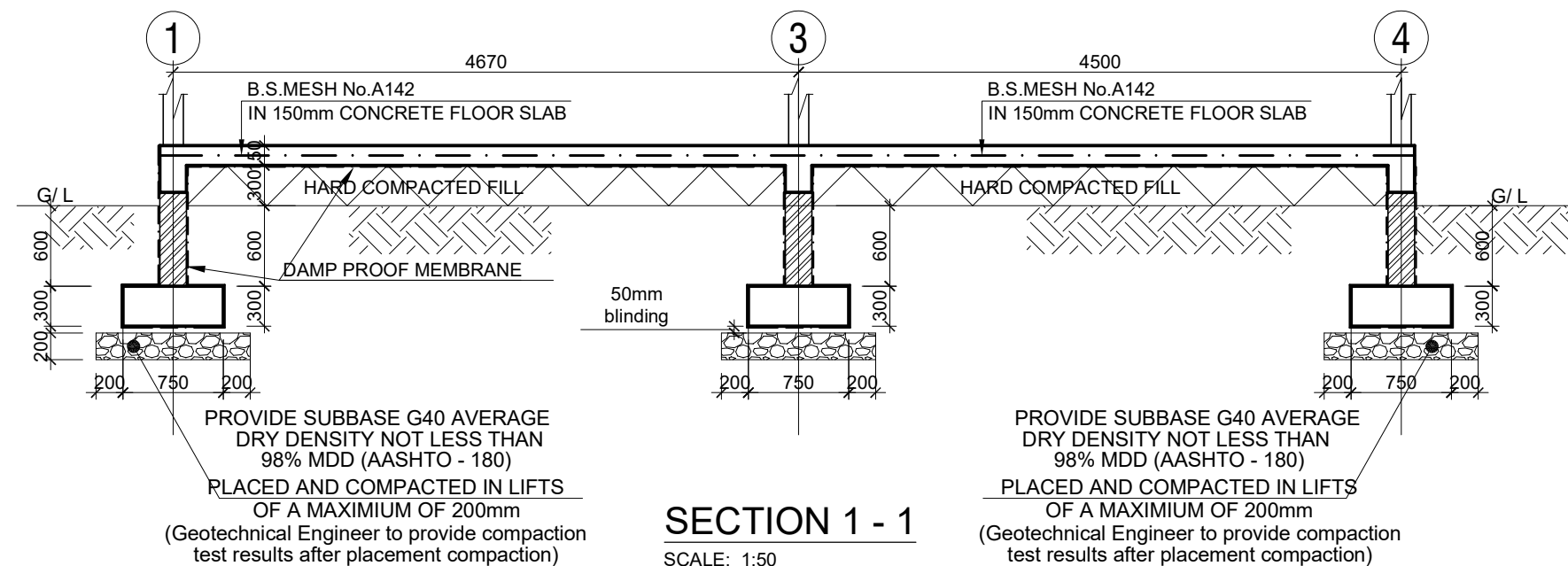
NOTE:
All columns, beams (steel or concrete) and pad footings are centred on grid lines unless dimensioned otherwise.

FOR PERMIT

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ich

REV. NO.	REVISION	BY: ENGR/TECH	DATE
<p>PROJECT TITLE</p> <h2 style="margin: 0;">PROPOSED WASH FACILITY AND RENOVATION OF EXISTING BORDER POST AT PULIMAKOM</h2>			
CLIENT :	INTERNATIONAL ORGANIZATION FOR MIGRATION (IOM)		
SHEET TITLE :	CONSTRUCTION GENERAL NOTES AND SPECIFICATIONS		
Scale:		Date:	MAY 2022
Designed: K.K	Drawing: K.K	Checked: K.N.K	
<div style="border: 2px solid black; padding: 5px; height: 100%;">Job No.</div>	Designed:	S/000	
REVISION No.			



FOR PERMIT

REV. NO.	REVISION	BY:ENGR/TECH	DATE

PROJECT TITLE
**PROPOSED WASH FACILITY AND
RENOVATION OF EXISTING
BORDER POST AT PULIMAKOM**

CLIENT : INTERNATIONAL ORGANIZATION
FOR MIGRATION (IOM)

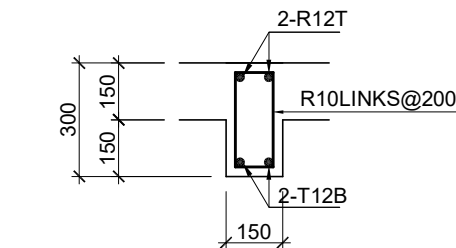
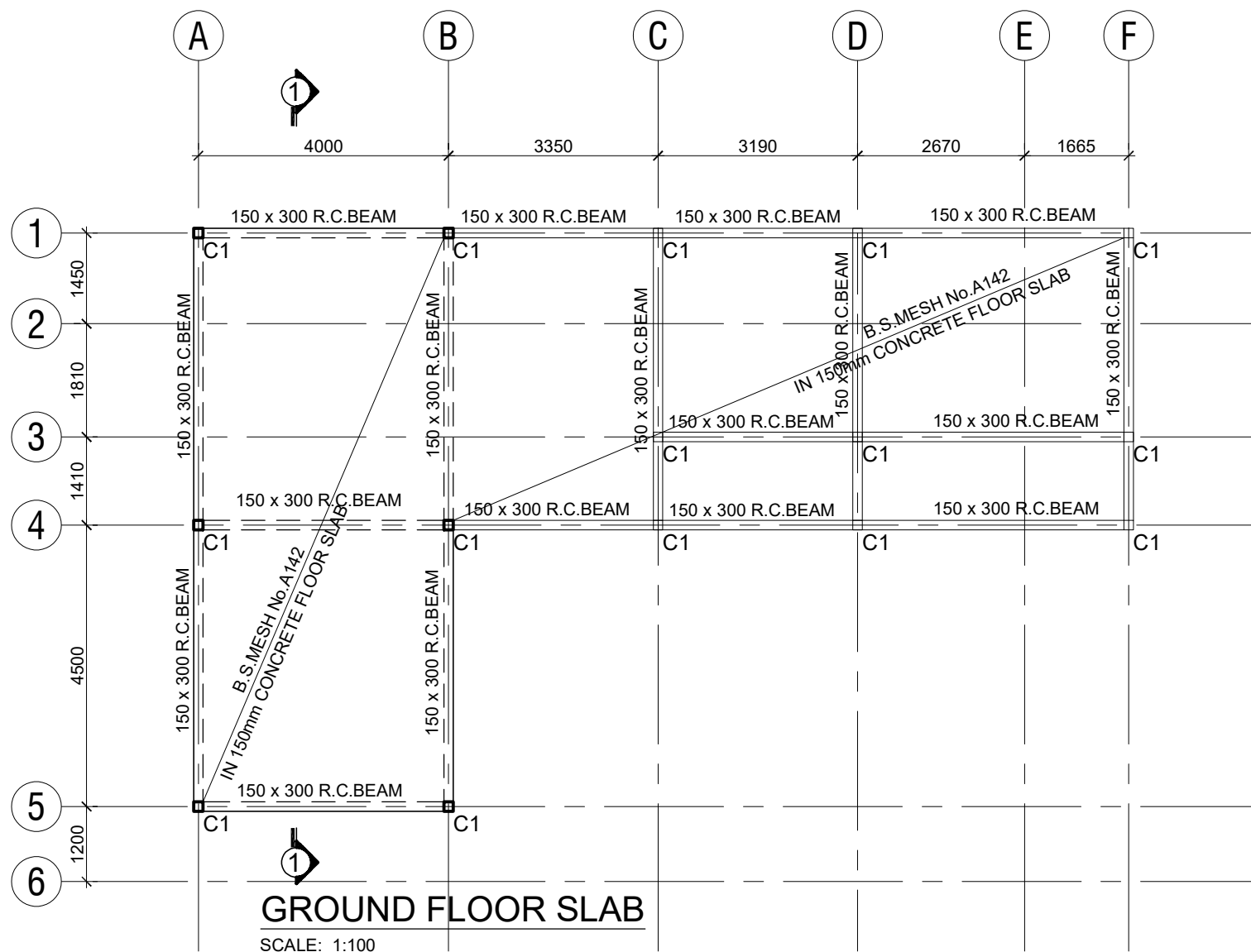
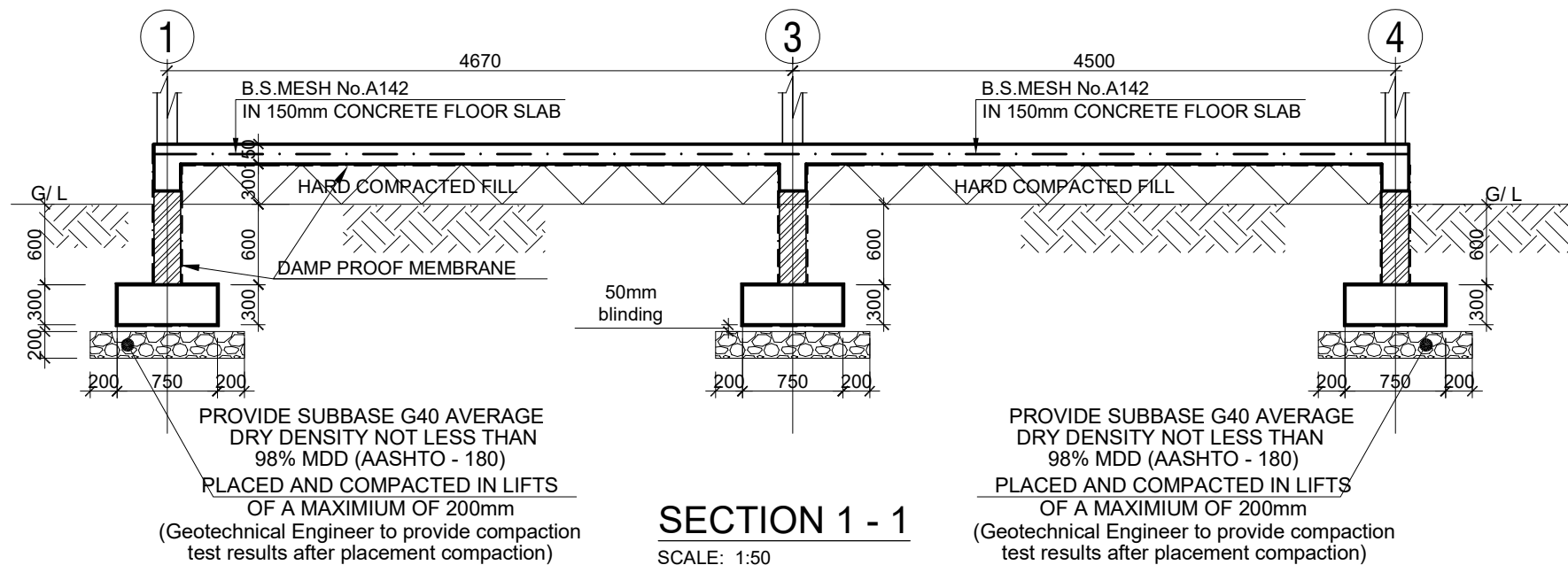
SHEET TITLE : **FOUNDATION LAYOUT**

Scale: AS SHOWN Date: MAY 2022

Designed: K.K. Drawing: K.K. Checked: K.N.K.

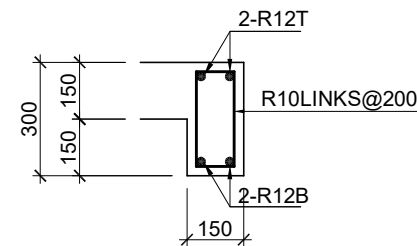
Job No. Designed: S/001

REVISION No.



TYPICAL INTERNAL
GROUND BEAM DETAILS

SCALE 1 : 20



TYPICAL EXTERNAL
GROUND BEAM DETAILS

SCALE 1 : 20

FOR PERMIT

REV. NO.	REVISION	BY:ENGR/TECH	DATE

PROJECT TITLE
**PROPOSED WASH FACILITY AND
RENOVATION OF EXISTING
BORDER POST AT PULIMAKOM**

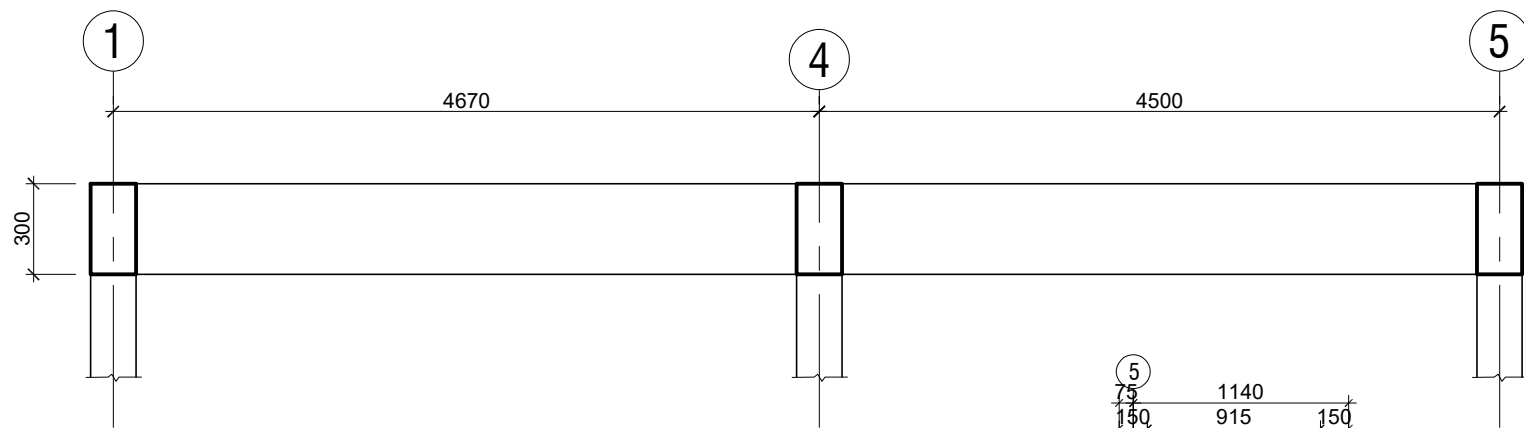
CLIENT : INTERNATIONAL ORGANIZATION
FOR MIGRATION (IOM)

SHEET TITLE : **G . A . GROUND FLOOR SLAB**

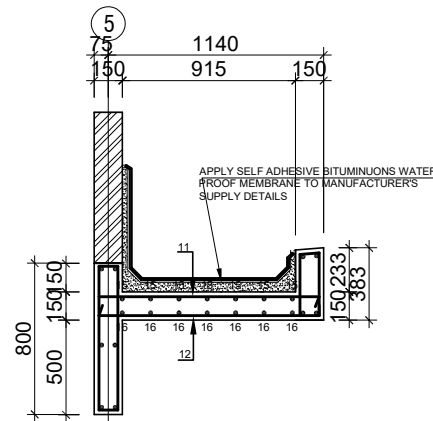
Scale: AS SHOWN Date: MAY 2022
Designed: K.K. Drawing: K.K. Checked: K.N.K.

Job No. Designed: **S/002**

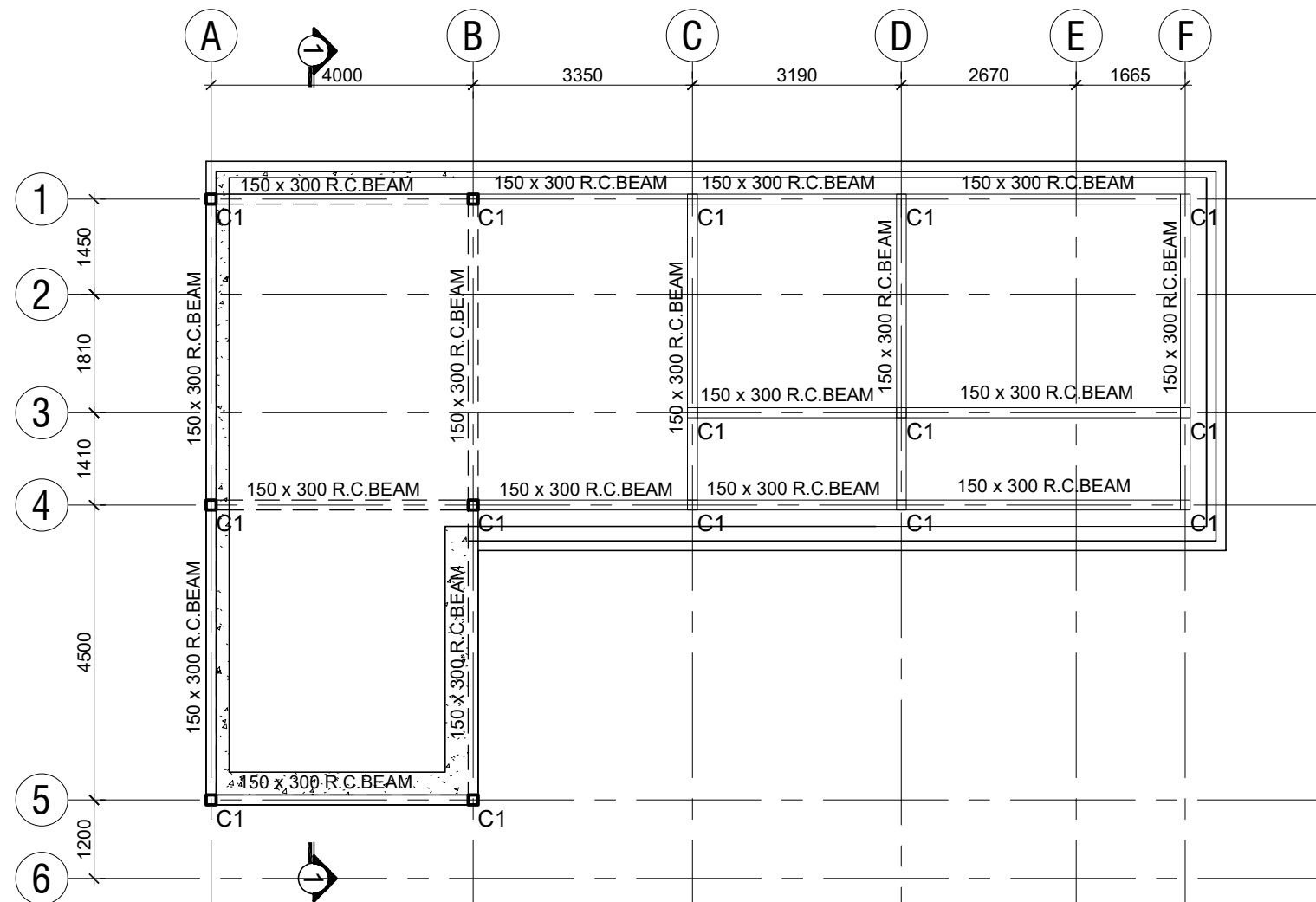
REVISION No.



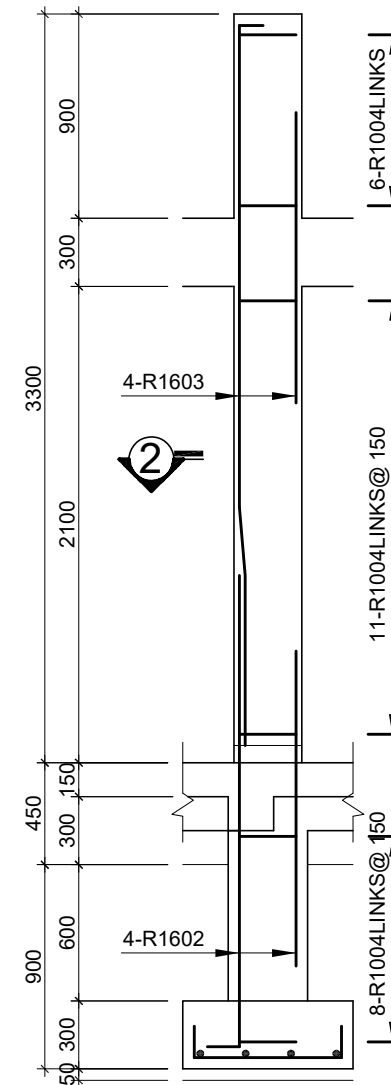
SECTION 1 - 1
SCALE: 1:50



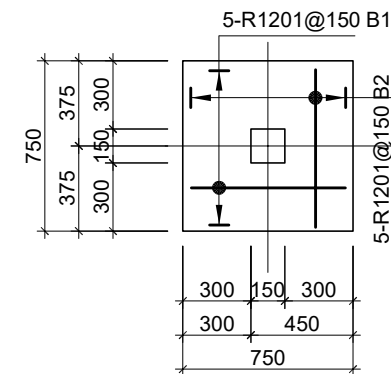
TYPICAL ROOF GUTTER DETAILS
SCALE 1 : 40



ROOF BEAM
SCALE: 1:100



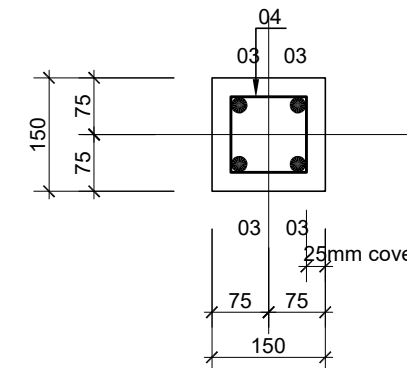
ELEVATION



COLUMN DETAILS
6 OFF. SCALE: 1 : 30

BENDING SCHEDULE

COLUMN	BAR MARK	BAR SIZE	TOTAL	LENGTH	SHAPE
	01	R12	60	950	650 150
	02	R16	24	2650	2350
	03	R16	24	4025	2825 300 750
	04	R10	150	600	(O . D) 100 100



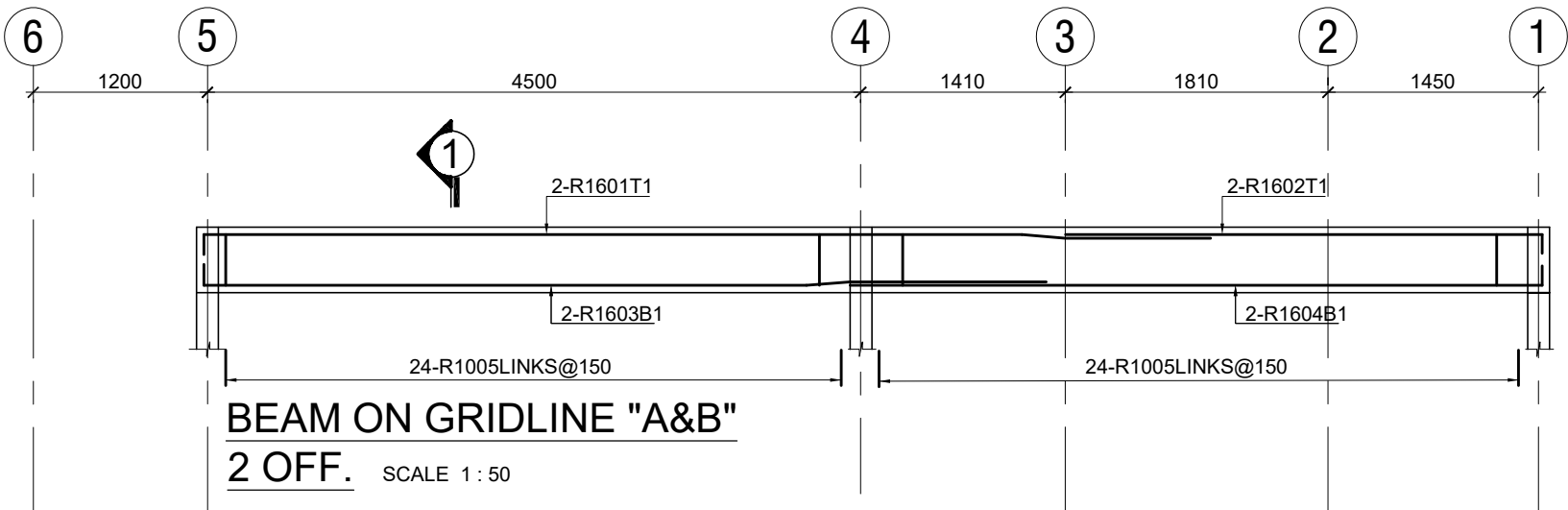
SECTION 2 - 2
SCALE 1 : 10

FOR PERMIT

REV. NO.	REVISION	BY:ENGR/TECH	DATE
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PROJECT TITLE
**PROPOSED WASH FACILITY AND
RENOVATION OF EXISTING
BORDER POST AT PULIMAKOM**

CLIENT :		INTERNATIONAL ORGANIZATION FOR MIGRATION (IOM)																	
SHEET TITLE :		G . A . ROOF BEAM & R . C . COLUMN FOOTINGS DETAILS Sheet 1 of 1																	
Scale:				AS SHOWN				Date:				MAY 2022							
Designed: K.K				Drawing: K.K				Checked: K.N.K											
Job No.		Designed:				S/003													
												REVISION No.							



Technical drawing of Section 1 - 1 of a rectangular structure. The drawing shows a cross-section with a total height of 300 and a total width of 150. The width is divided into two equal sections of 75. A 25mm cover is indicated on the right side. The drawing includes dimension lines and labels for the section cut.

FOR PERMIT

REV. NO.	REVISION	BY:ENGR/TECH	DATE

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PROJECT TITLE
**PROPOSED WASH FACILITY AND
RENOVATION OF EXISTING
BORDER POST AT PULIMAKOM**

CLIENT :		INTERNATIONAL ORGANIZATION FOR MIGRATION (IOM)												
SHEET TITLE :		R . C . ROOF BEAM DETAILS Sheet 1 of 2												
Scale:					Date:									
AS SHOWN					MAY 2022									
Designed: K.K			Drawing: K.K					Checked: K.N.K						
Job No.			Designed:					S/004						
			REVISION No.											

- These drawings must be completed with MEP and Architectural Drawings/ Design.

- All drawings shall be read in conjunction with all relevant architectural, and all other disciplines (drawings and Specifications).

- Contractor must coordinate and implement the construction details in conjunction with Architectural, Plumbing, Electrical and Mechanical drawings. Any identified discrepancy must be communicated before execution to the Architects and Engineers.

- All the levels and distances must be checked on site by the Contractor.

- For the definition of the finishes, Architectural Drawings must be consulted.

- The contractor shall comply with the specifications of Eurocode, BS and the relevant Ghanaian regulations.

- Unless otherwise stated, all dimensions are in millimeters.

- All materials and finishes shall be consistent throughout the project unless approved otherwise.

- All MEP ducts and concrete embedded elements must be done as first fixes before casting of concrete. All the locations and dimensions are to be checked by the Contractor prior to casting the concrete. Architects and Engineers must be informed of any discrepancies observed.

- No ducts or openings are allowed in beams or in columns, except if indicated very clearly on the structural drawings.

- For elements with concrete final finish, formwork must be prepared in accordance with provisions of section 5 (Falsework & Formwork) of EN 13670:2009 (E): Execution of Concrete Works.

- Blinding concrete (minimum 50mm layer) must be provided in contact with soil on the bottom surface of foundations and foundation beams.

- Any specified product other than that recommended by the Structural Engineer should be accompanied by its Technical Literature for Structural Engineer's review and advice

- Contractor must provide cementitious spacers and steel chairs for the reinforcement in accordance with provisions of BS 7973-1:2001 in order to achieve the requested cover, position and rigidity. The centres of the spacers and chairs shall not exceed 1000mm in two directions in right angles. Steel chair must have high yield strength of reinforcement bars and cementitious spacers must have cube strength of 50N/mm2 at 28days when cast, cured and tested in accordance with BS-1881-124.

- A camber of L/300 shall be applied at the mid span of the slab, for slabs with a span (L) greater than 6100mm, and L/150 for cantilever slabs with span (L) greater than 1500mm.

- The nominal cover for the reinforcement must be ensured on all elements.

- All existing levels shall be confirmed on site prior to start of construction.

- Prior to fabrication of any miscellaneous metalwork items, all 'as-built' concrete dimensions and levels must be determined by the contractor, and adjustments to the drawing information made to suit.

- Where a non-slip surface is required to exposed concrete the surface is to be brushed with a stiff broom or wire brush while the concrete is still green, to produce a lightly textured surface.

- The assumed soil bearing pressure at foundation level is 200kPa. Ground improvement works have been indicated to obtain an expected 350kPa soil bearing pressure. A plate loading test should be conducted to ensure expected soil bearing pressure has been achieved.

- The excavation for the footings must be large enough to allow the works to be done below ground, in perfectly safe conditions.

- The minimum level for all the foundations must be 1500mm below the existing ground level.

- Excavations shall be kept open for the minimum period as possible. Immediately before the construction of foundations, and other elements under the soil, the sides of the excavation must be trimmed and the bottom shall be cleaned and, if in loose or disturbed soil, shall be very well rammed and the whole shall be approved before blinding concrete is cast.

- All backfilling around foundations, ducts, etc is to be carried out in accordance with provisions in EN 1997-1: 2004 BS (Eurocode 7: Geotechnical Design, Part 1: General Rules), section 5.3.

- If the foundation depth is higher by 600mm than the estimated one, the Contractor must immediately alert the Engineers.

- The Contractor shall record the depth of every foundations as constructed on a suitable plan, and submit to the engineer when all the foundation work is done.

- Foundations can be cast at different levels if it is determined that the distance between the foundations ensures that the angle between levels is less than 30°.

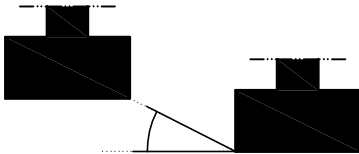
- If a strip foundation must have different levels, the transition between levels cannot be bigger than 1500mm, unless detailed on the drawings. If that is not possible, the Contractor must inform the Engineer immediately.

- The areas placed under the foundations or raft slab should be compacted to achieve minimum Modified Proctor density and OMC as specified in the drawings.

- When the excavation reaches the foundation level, and with the approval of the checker, a layer of blinding concrete, of 50mm minimum thickness must be immediately placed.

- The slabs cast on ground will be cast above a polyethylene membrane

Foundations can be cast at different levels if it is determined that the distance between the foundations ensures that the angle between levels is less than 30°.



- Foundation block wall thickness shall be:
- 200mm for external wall
- 150mm for internal wall

- Superstructure block wall shall be as indicated in architectural drawings

If anchorage length is not referred in the drawing, it should be considered as follows:

- The reinforcement must be anchored according to the Eurocodes and BS and relevant Ghanaian regulations. Minimum anchorage lapping length must be considered as 57Ø for Laps, Tension Anchorages and Compression Anchorages.

- CONCRETE
C12/15 Blinding concrete
C25/30 Concrete in slabs and beams
C25/30 Concrete elsewhere

- REINFORCEMENT STEEL
High yield reinforcement (Ductility B) with minimum characteristic strength of 460 N/mm² - S500 (EN1992-1-1)

- NOMINAL COVER TO ALL STEEL
50mmFootings
50mmWalls in contact with soil or water
25mmWalls not in contact with soil or water
25mmColumns
25mmBeams
25mmSlabs and Stairs
25mmSlab on grade and stairs on grade

☐ Vertical element (reinforced concrete) which ends at the represented plan

☐ Vertical element (reinforced concrete) which starts or proceeds to the upper plan

- Structural levels generally refer to top of concrete or top of steelwork and are shown as next:



NOTE:
All columns, beams (steel or concrete) and pad footings are centred on grid lines unless dimensioned otherwise.

FOR PERMIT

REV. NO.	REVISION		BY:ENGR/TECH	DATE

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PROJECT TITLE
PROPOSED WASH FACILITY AND RENOVATION OF EXISTING BORDER POST

CLIENT : INTERNATIONAL ORGANIZATION FOR MIGRATION (IOM)

SHEET TITLE : **CONSTRUCTION GENERAL NOTES AND SPECIFICATIONS**

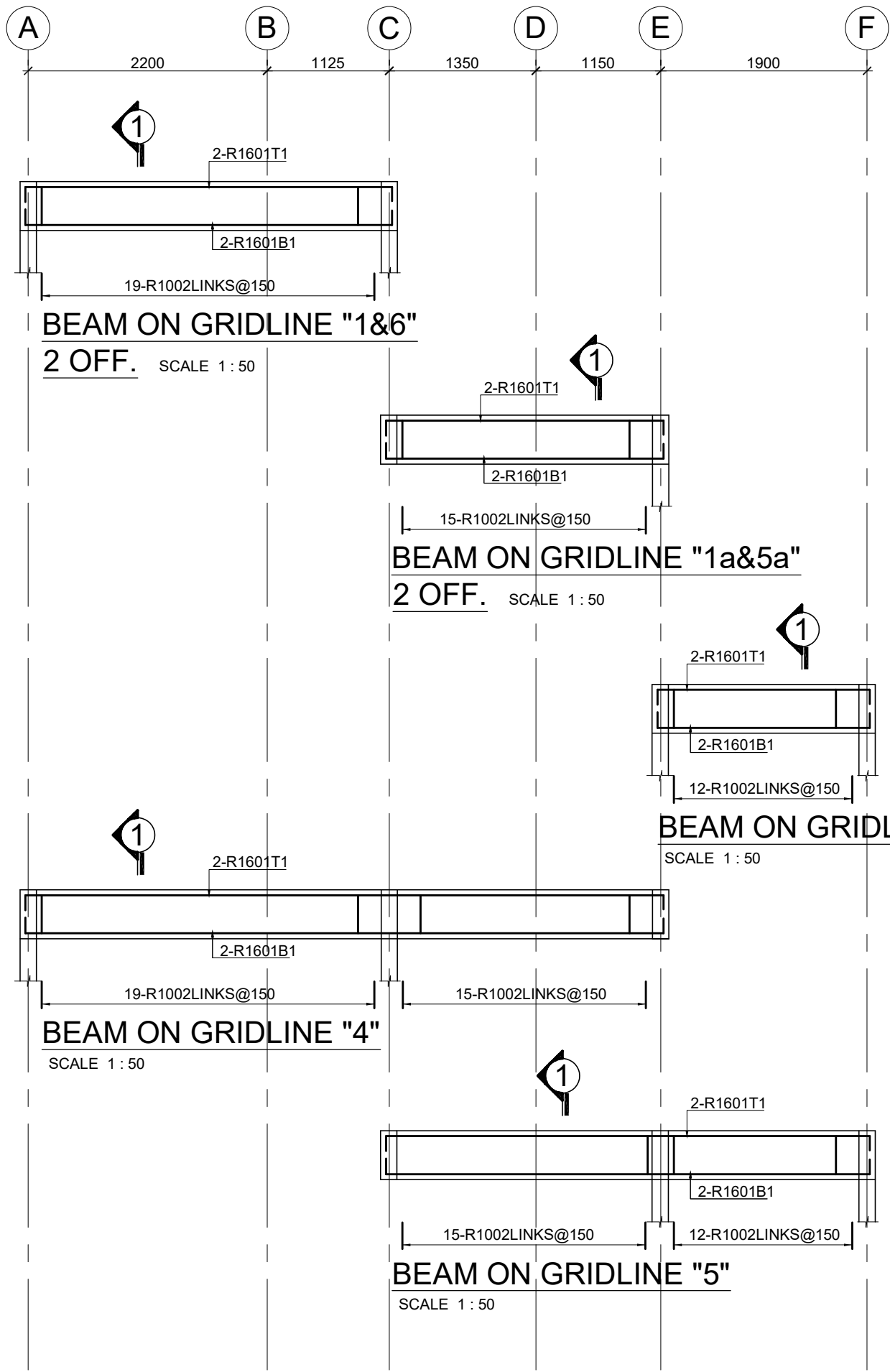
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Designed: K.K	Drawing: K.K		Checked: K.N.K
Job No.	Designed:		S/000
REVISION No.			



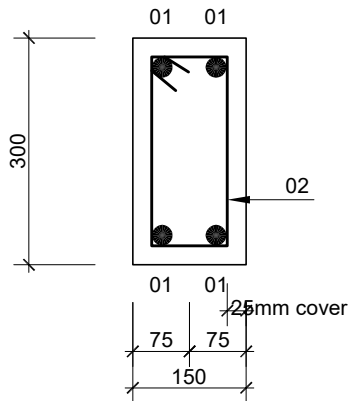
FOR PERMIT

REV. NO.	REVISION	BY:ENGR/TECH	DATE
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REVISION No.



BENDING SCHEDULE					
BEAM ON GRIDLINE "1&6"	BAR MARK	BAR SIZE	TOTAL	LENGTH	SHAPE
	01	R16	8	3925	
	02	R10	38	900	(O . D) 100
BEAM ON GRIDLINE "1a&5a"	01	R16	8	3150	
	02	R10	30	900	(O . D) 100
BEAM ON GRIDLINE "3"	01	R16	4	2550	
	02	R10	12	900	(O . D) 100
BEAM ON GRIDLINE "4"	01	R16	8	6470	
	02	R10	34	900	(O . D) 100
BEAM ON GRIDLINE "5"	01	R16	4	5050	
	02	R10	27	900	(O . D) 100



SECTION 1 - 1
SCALE 1 : 10

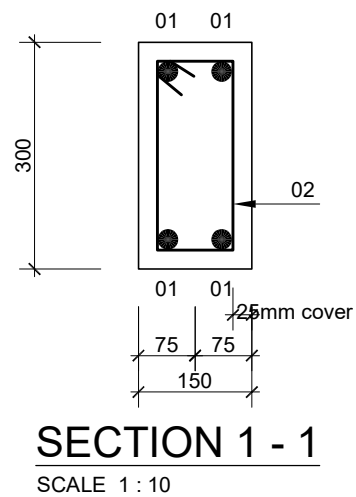
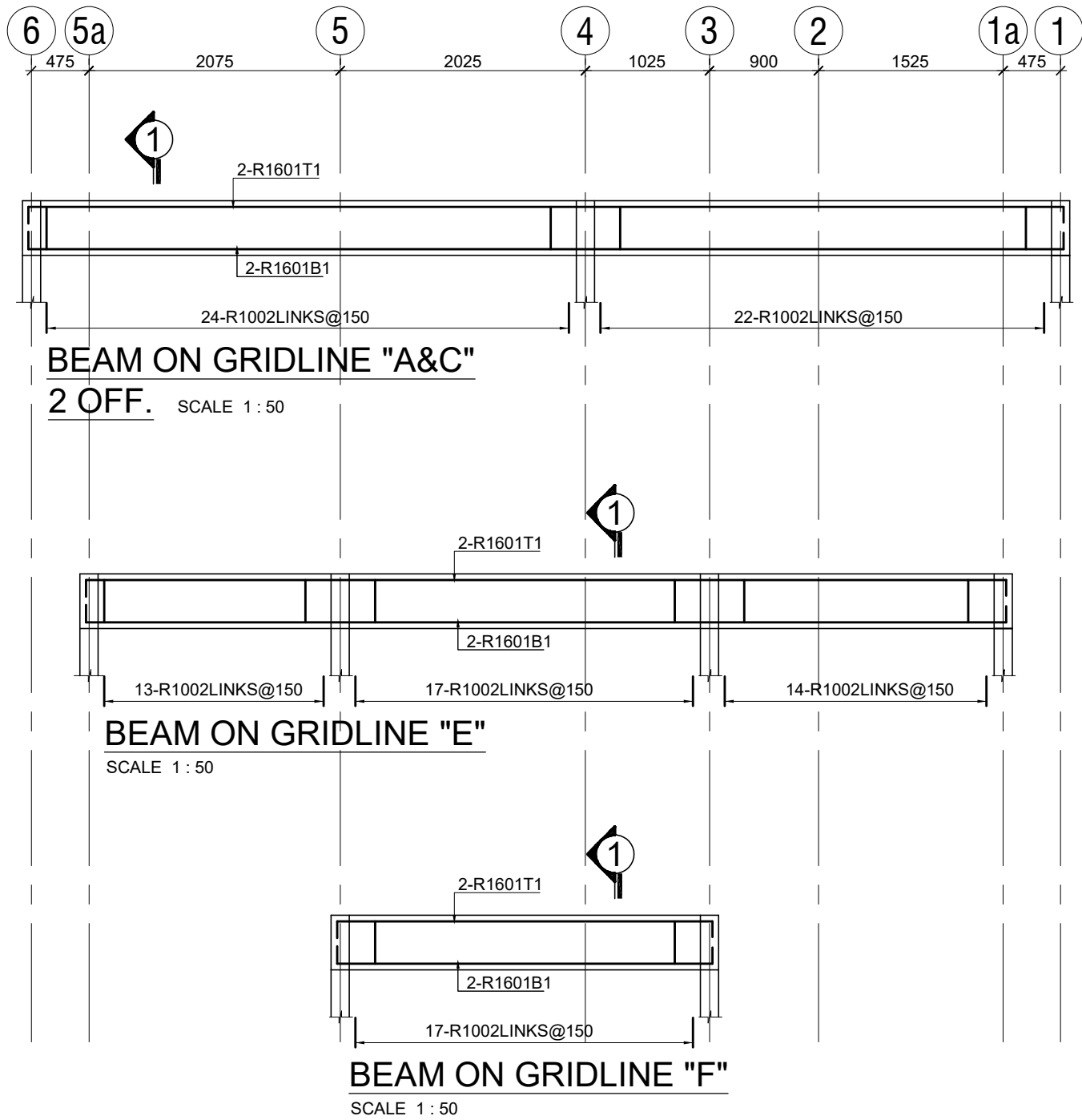
FOR PERMIT

REV. NO.	REVISION	BY:ENGR/TECH	DATE
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PROJECT TITLE
PROPOSED WASH FACILITY AND RENOVATION OF EXISTING BORDER POST

CLIENT :	INTERNATIONAL ORGANIZATION FOR MIGRATION (IOM)
SHEET TITLE :	R . C . ROOF BEAM DETAILS Sheet 1 of 2

Scale:		AS SHOWN		Date:		MAY 2022	
Designed: K.K		Drawing: K.K		Checked: K.N.K			
Job No.		Designed:		S/003			
		REVISION No.					



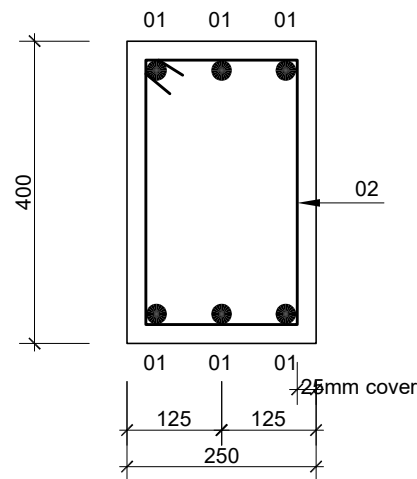
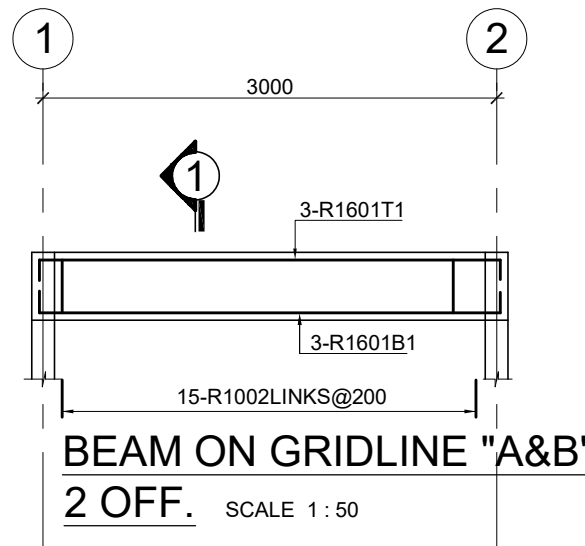
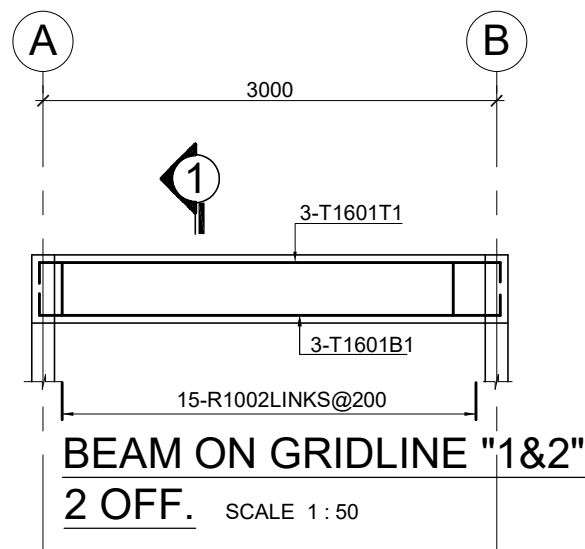
BENDING SCHEDULE					
BEAM ON GRIDLINE "A&C"	BAR MARK	BAR SIZE	TOTAL	LENGTH	SHAPE
	01	R16	8	8950	8550 J200
	02	R10	92	900	(O . D) 100 250
BEAM ON GRIDLINE "E"	BAR MARK	BAR SIZE	TOTAL	LENGTH	SHAPE
	01	R16	4	8000	7600 J200
	02	R10	44	900	(O . D) 100 250
BEAM ON GRIDLINE "F"	BAR MARK	BAR SIZE	TOTAL	LENGTH	SHAPE
	01	R16	4	3500	3100 J200
	02	R10	17	900	(O . D) 100 250

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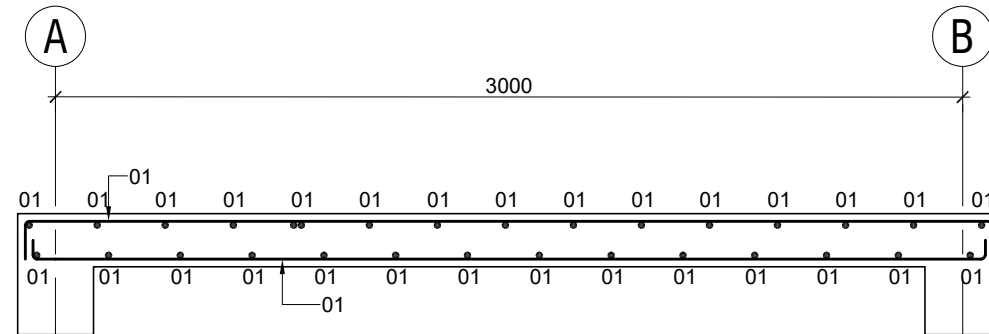
REV. NO.	REVISION	BY:ENGR/TECH	DATE
PROJECT TITLE PROPOSED WASH FACILITY AND RENOVATION OF EXISTING BORDER POST			
CLIENT :	INTERNATIONAL ORGANIZATION FOR MIGRATION (IOM)		
SHEET TITLE :	R . C . ROOF BEAM DETAILS Sheet 2 of 2		
Scale:	AS SHOWN	Date:	MAY 2022
Designed: K.K	Drawing: K.K	Checked: K.N.K	
Job No.	Designed:	S/004	
REVISION No.			



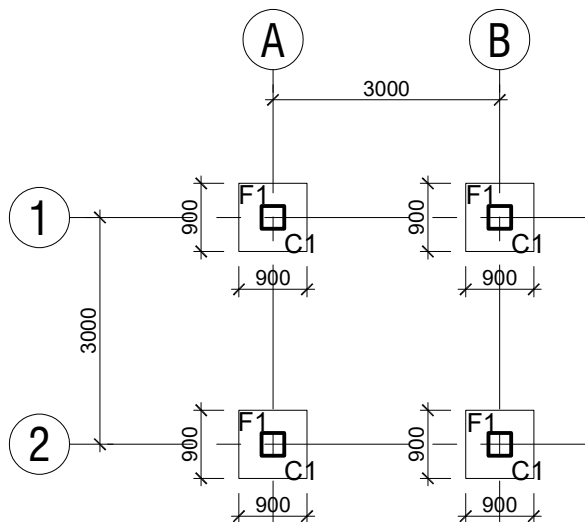
REVISION No.



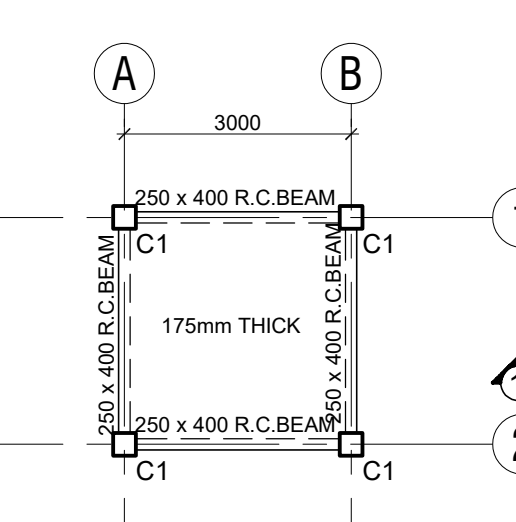
SECTION 1 - 1
SCALE 1 : 10



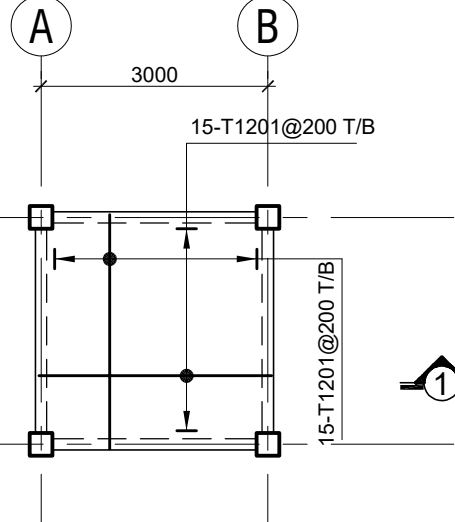
SECTION 3 - 3
SCALE 1 : 25



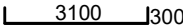

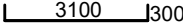

FOUNDATION PLAN
SCALE: 1:100

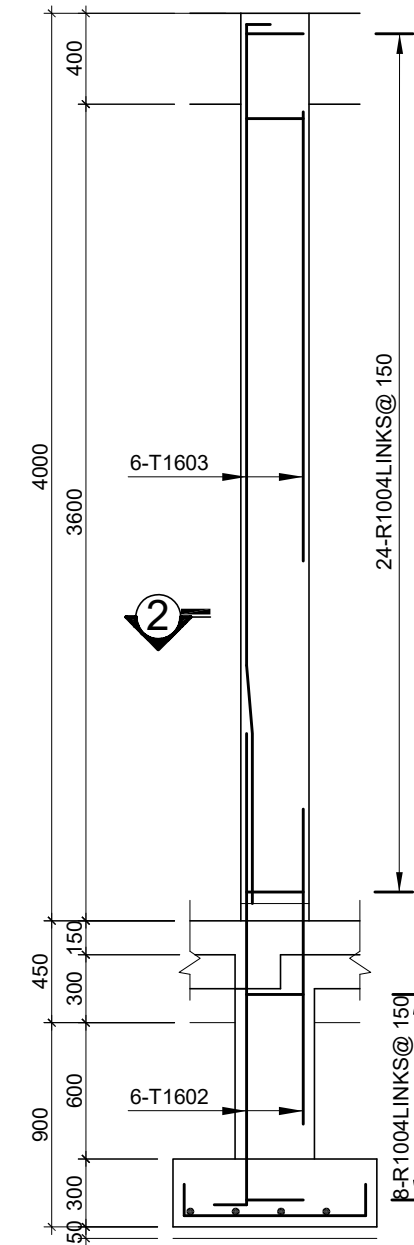


ELEVATED TANK BEAMS
SCALE: 1:100

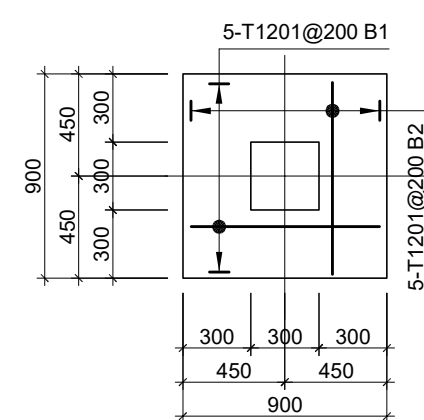


SLAB DETAILS
SCALE: 1:100

BENDING SCHEDULE					
BEAM ON GRIDLINE "1&2"	BAR MARK	BAR SIZE	TOTAL	LENGTH	SHAPE
	01	R16	8	3700	
	02	R10	30	1350	(O . D) 200 
BEAM ON GRIDLINE "A&B"	01	R16	8	3700	
	02	R10	30	1350	(O . D) 200 

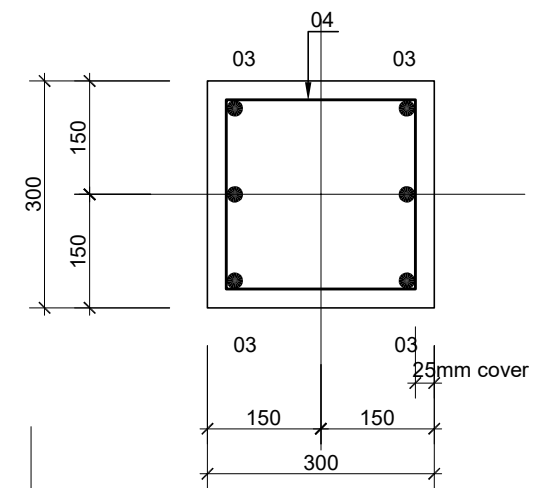


ELEVATION



COLUMN DETAILS
4 OFF. SCALE: 1 : 30

BENDING SCHEDULE					
BAR MARK	BAR SIZE	TOTAL	LENGTH	SHAPE	
01	T12	40	1150	850 150	
02	T16	24	2650	2350	
03	T16	24	4025	2825 300 750	
04	R10	128	1150	(O . D) 250 250	



SECTION 2 - 2
SCALE 1 : 10

REV. NO.	REVISION	BY:ENGR/TECH	DATE

PROJECT TITLE	
PROPOSED WASH FACILITY AND RENOVATION OF EXISTING BORDER POST AT KULUNGUGU	

CLIENT :	INTERNATIONAL ORGANIZATION FOR MIGRATION (IOM)
----------	--

SHEET TITLE :	FOUNDATION LAYOUT & G . A . GROUND FLOOR SLAB
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Scale:	AS SHOWN	Date:	MAY 2022
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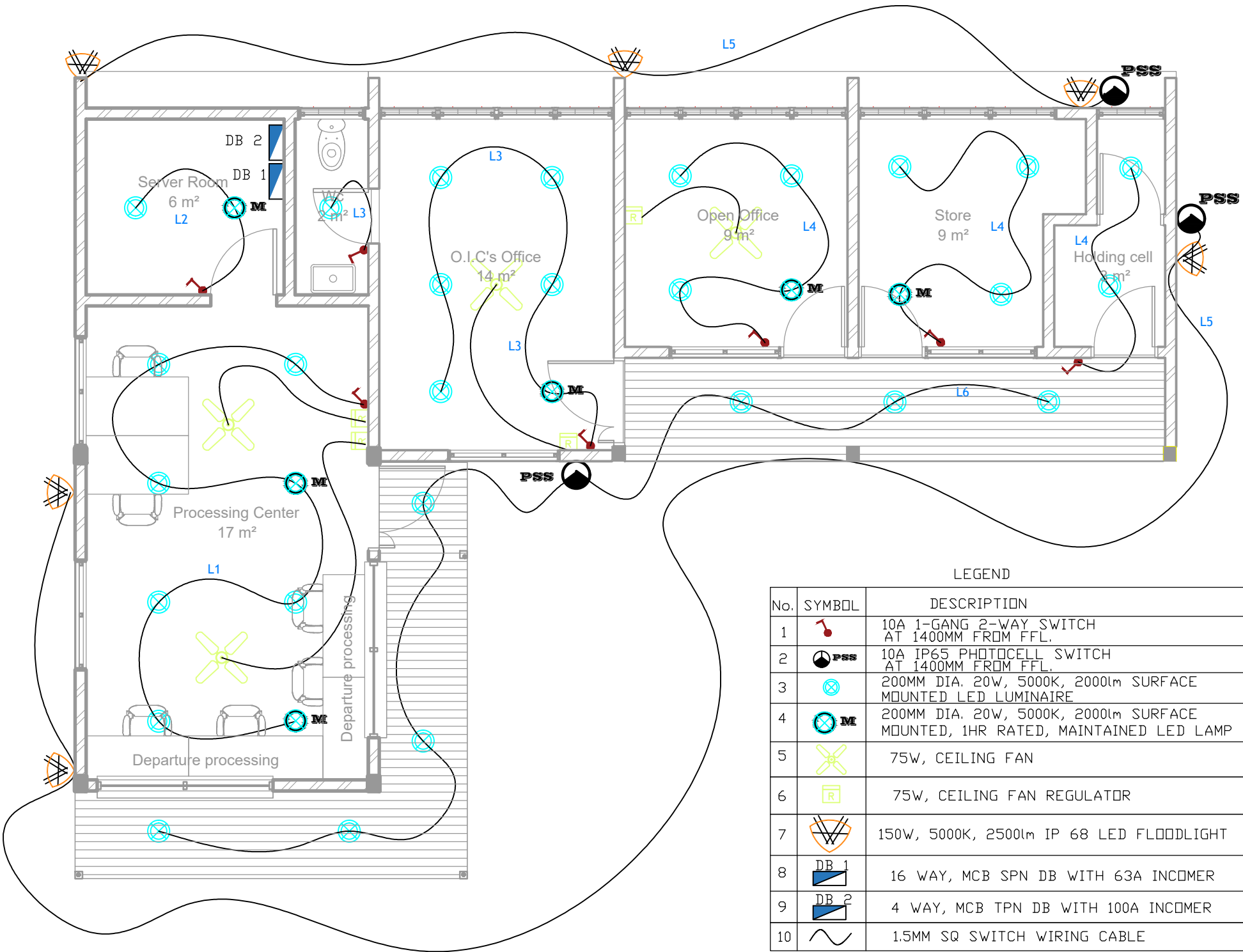
Designed: K.K.	Drawing: K.K.	Checked: K.N.K.
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Job No.	Designed:	S/001
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REVISION No.

BUILDING SERVICES DRAWINGS



LEGEND

No.	SYMBOL	DESCRIPTION
1		10A 1-GANG 2-WAY SWITCH AT 1400MM FROM FFL.
2		10A IP65 PHOTOCELL SWITCH AT 1400MM FROM FFL.
3		200MM DIA. 20W, 5000K, 2000lm SURFACE MOUNTED LED LUMINAIRE
4		200MM DIA. 20W, 5000K, 2000lm SURFACE MOUNTED, 1HR RATED, MAINTAINED LED LAMP
5		75W, CEILING FAN
6		75W, CEILING FAN REGULATOR
7		150W, 5000K, 2500lm IP 68 LED FLOODLIGHT
8		16 WAY, MCB SPN DB WITH 63A INCOMER
9		4 WAY, MCB TPN DB WITH 100A INCOMER
10		1.5MM SQ SWITCH WIRING CABLE

NOTES

14 ANKOBI STR, DANSOMAN
thgar@gmail.com

#	REV	DATE

CLIENT

INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

LOCATION:

GHANA

DRAWING NUMBER:

E01

DRAWING TITLE:

ELECTRICAL LIGHTING
SWITCHING SCHEME GROUND
FLOOR, PULMAKOM GIS POE

SCALE :

NTS

DRAWN BY:

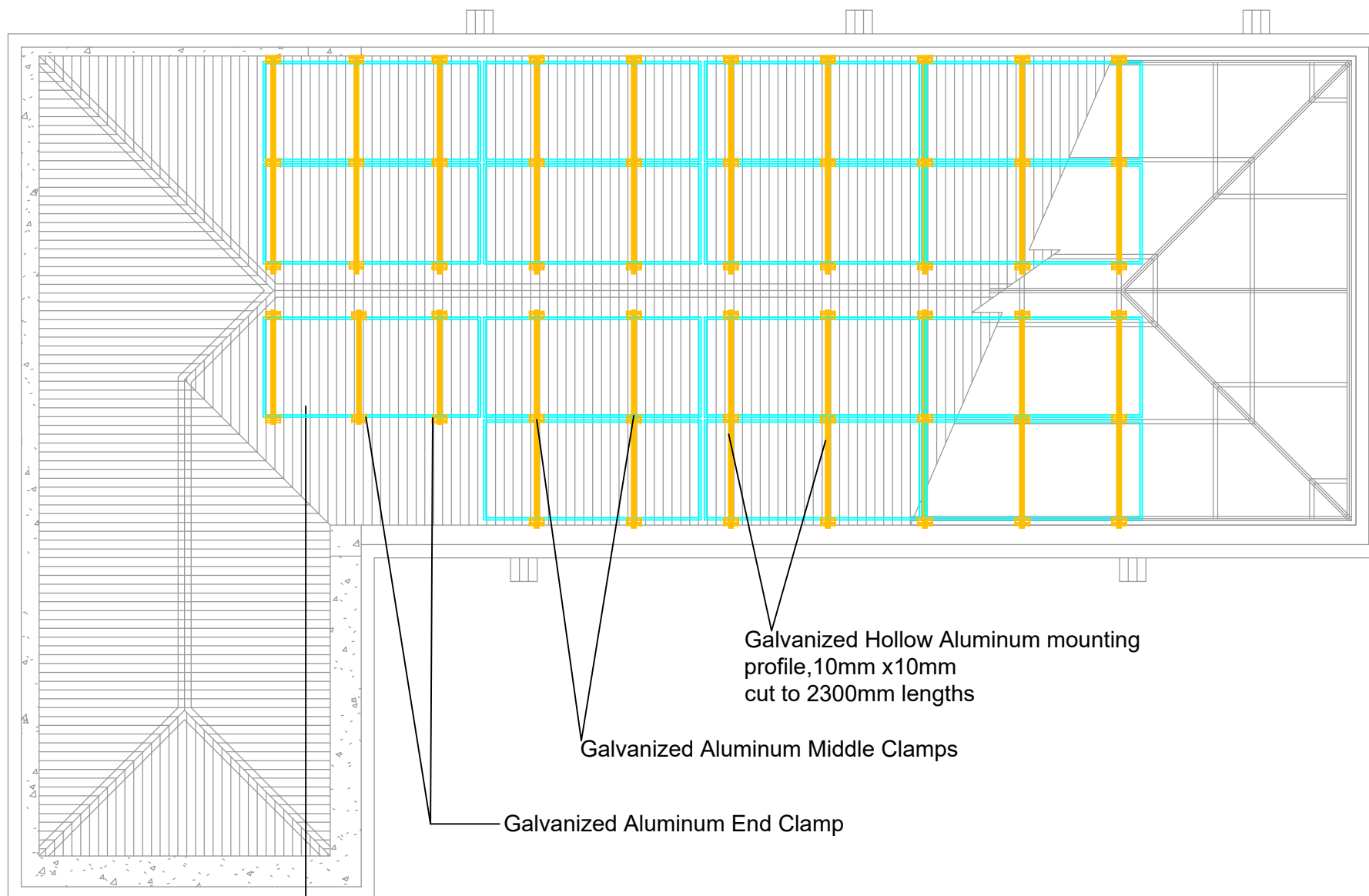
L.A.K FARHAT

CHECKED BY:

O.ASEMPA

DATE:

JULY, 2022



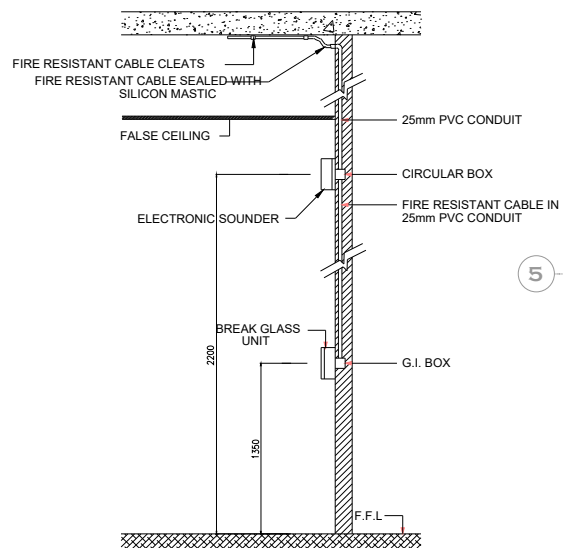
Galvanized Hollow Aluminum mounting
profile,10mm x10mm
cut to 2300mm lengths

Galvanized Aluminum Middle Clamps

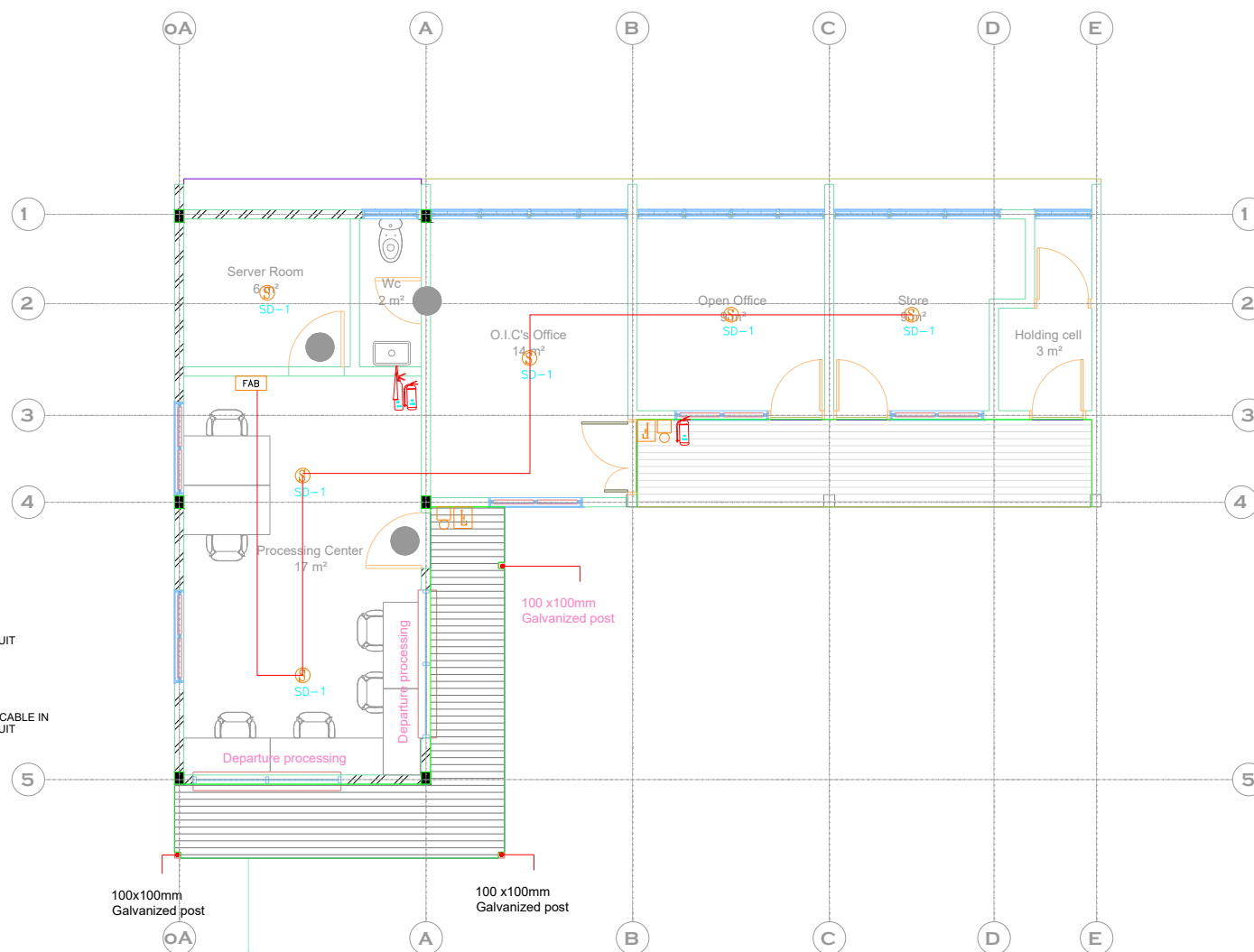
- Galvanized Aluminum End Clamp

15 pcs x 550Wp Monocrystalline PV solar modules, 2200mmx 1100mm,
affixed to roofing members with galvanized extruded aluminum mounting system

SECTION
A-A



TYPICAL MOUNTING DETAIL OF
SOUNDER AND BREAK GLASS NITS



LEGEND

SYMBOL	DESIGNATION
	SMOKE DETECTOR CABLING
	SMOKE DETECTOR
	FIRE ALARM BOX @1600 AFFL
	CARBON DIOXIDE FIRE EXTINGUISHER
	DRY POWDER FIRE EXTINGUISHER
	BREAK GLASS
	FIRE ALARM
ACL	ABOVE CEILING LEVEL

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PROJECT:
**CONSTRUCTION OF WASH FACILITY
AND RENOVATION OF OFFICE**

LOCATION: PULMAKON

CLIENT:
**INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)**

SHEET
TITLE: **OFFICE BUILDING FIRE
SAFETY SYSTEM**

DESIGNED BY: W.G

SCALE:
1 : 100

DRAWN BY: J.A

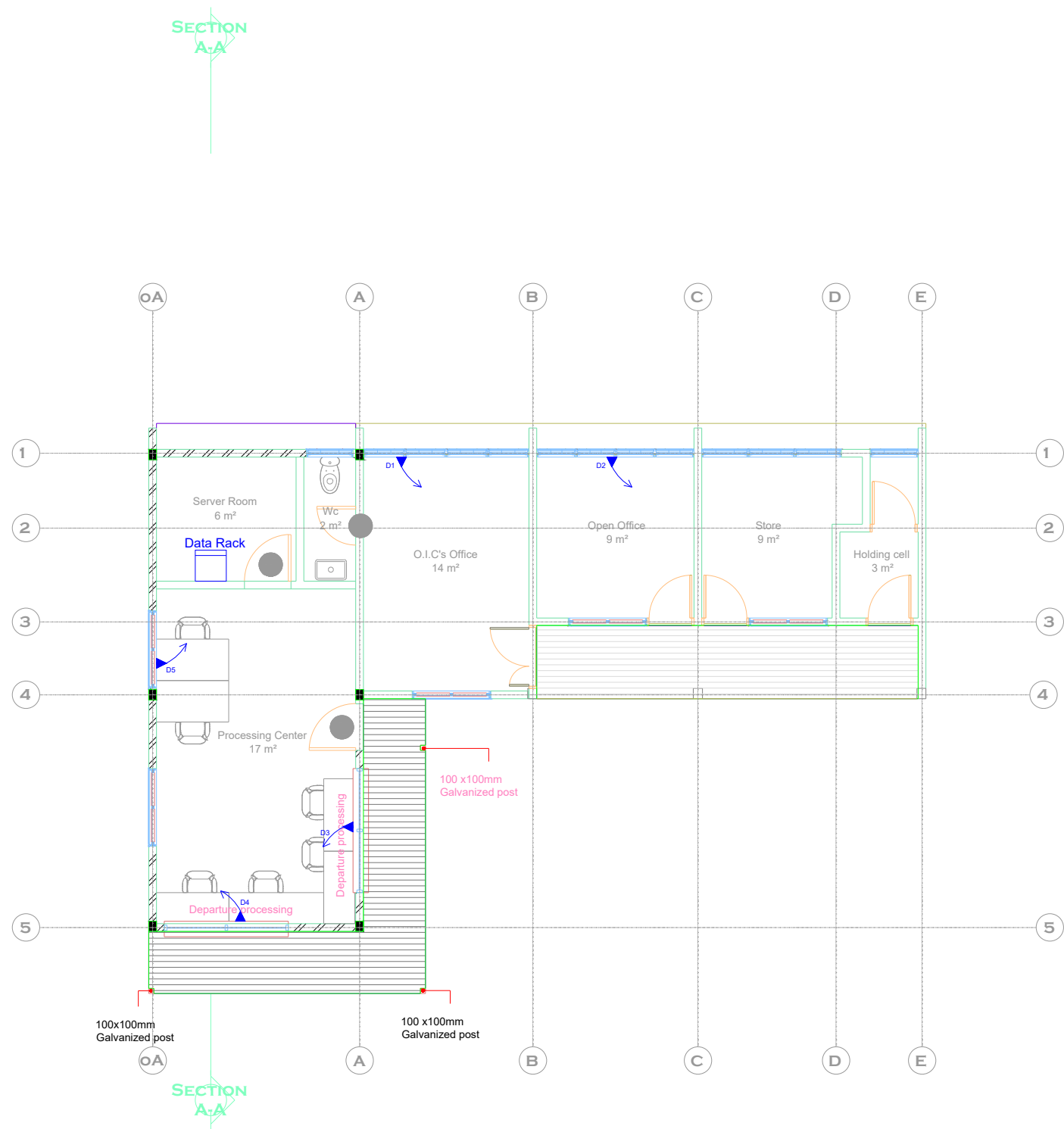
JOB NO.:

CHECKED BY: W.G

SHEET
NO:

DATE: APRIL 2022

E-09



LEGEND

SYMBOL DESIGNATION

	DATA RACK
	DOUBLE DATA OUTLET

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PROJECT:
CONSTRUCTION OF WASH FACILITY
AND RENOVATION OF OFFICE

LOCATION: PULMAKON

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

**SHEET
TITLE:** OFFICE BUILDING DATA SYSTEM

DESIGNED BY: W.G

SCALE:
1 : 100

DRAWN BY: J.A

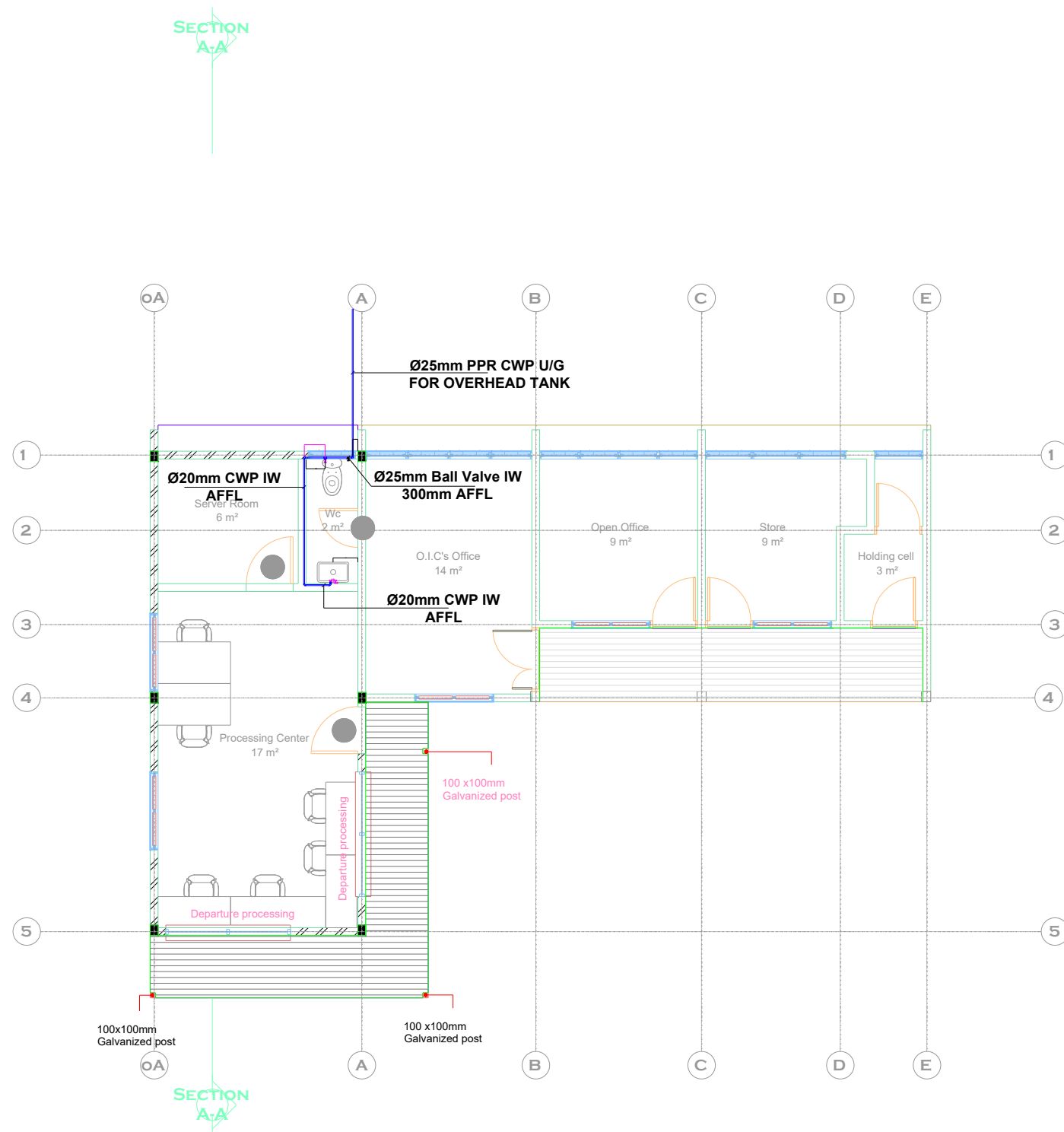
JOB NO.:

CHECKED BY: W.G

**SHEET
NO:**

DATE: APRIL 2022

E-10



LEGEND

SYMBOL	DESIGNATION
	COLD WATER PIPE
	ANGLE VALVE
	FAUCET
	GATE VALVE
CWP	COLD WATER PIPE
IW	IN WALL
FFL	FINISH FLOOR LEVEL
UG	UNDER GROUND

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PROJECT:
CONSTRUCTION OF WASH FACILITY
AND RENOVATION OF OFFICE

LOCATION: PULMAKON

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE: OFFICE GROUND FLOOR WATER
SUPPLY LAYOUT

DESIGNED BY: NOAH

SCALE:
1 : 100

DRAWN BY: FIKANDY

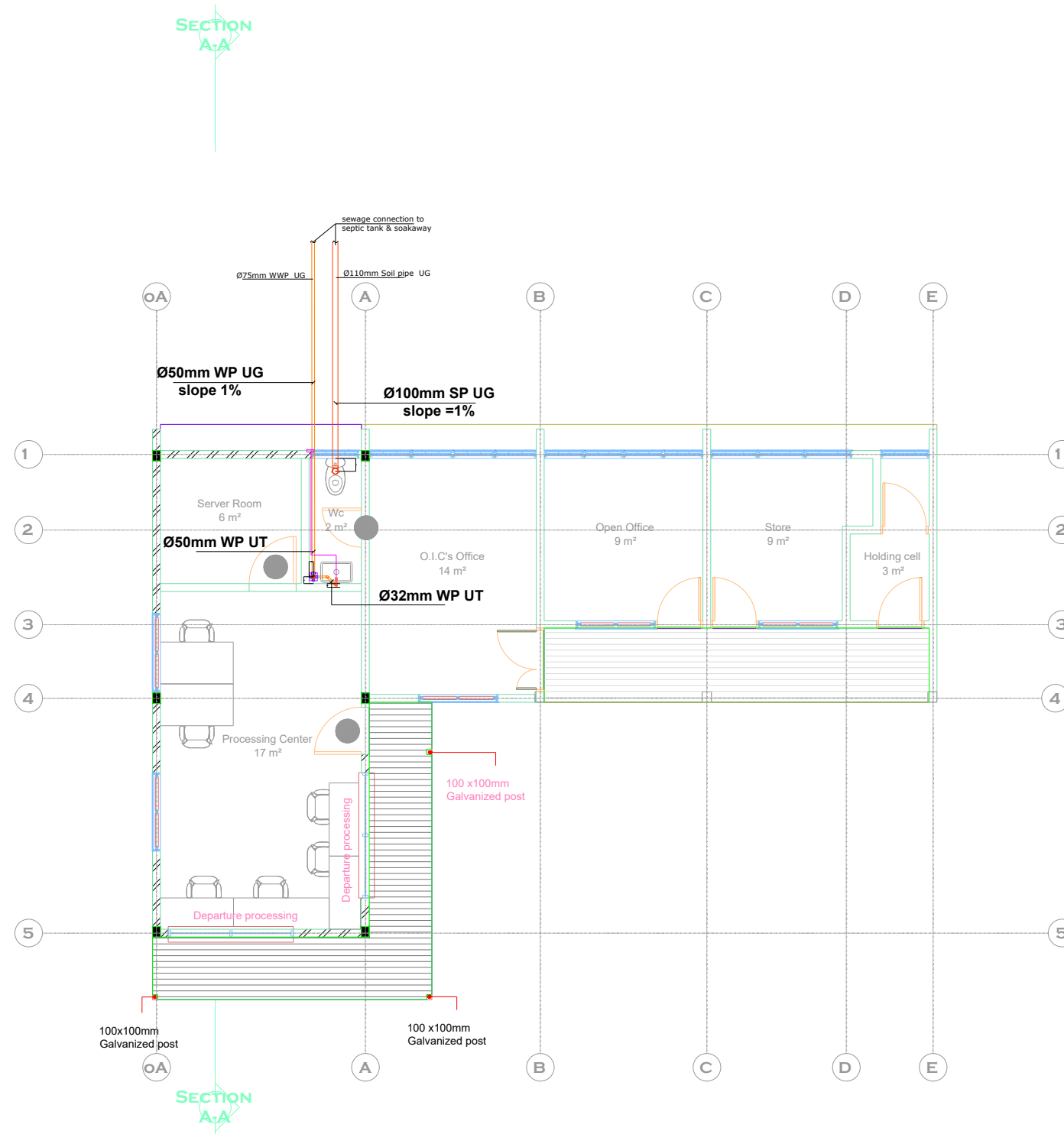
JOB NO.:

CHECKED BY: NOAH

SHEET
NO:

DATE: APRIL 2022

MP-01



LEGEND

SYMBOL	DESIGNATION
	WASTE WATER PIPE
	SOIL WASTE PIPE
	FLOOR DRAIN
WWP	WASTE WATER PIPE
SP	SOIL WASTE PIPE
IW	IN WALL
FFL	FINISH FLOOR LEVEL
UT	UNDER TILE
UG	UNDER GROUND

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PROJECT:
CONSTRUCTION OF WASH FACILITY
AND RENOVATION OF OFFICE

LOCATION: PULMAKON

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE: OFFICE GROUND FLOOR SOIL AND
WASTE DRAINAGE SYSTEM

DESIGNED BY: NOAH

SCALE:
1 : 100

DRAWN BY: FIKANDY

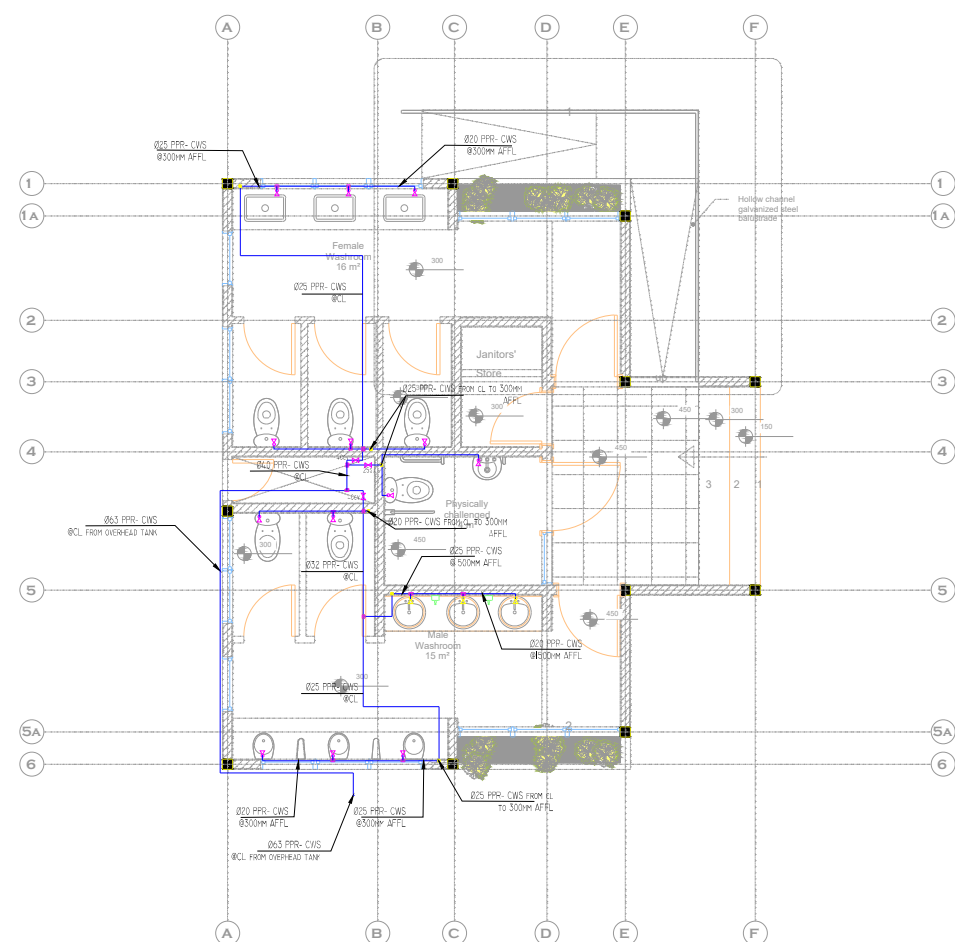
JOB NO.:

CHECKED BY: NOAH

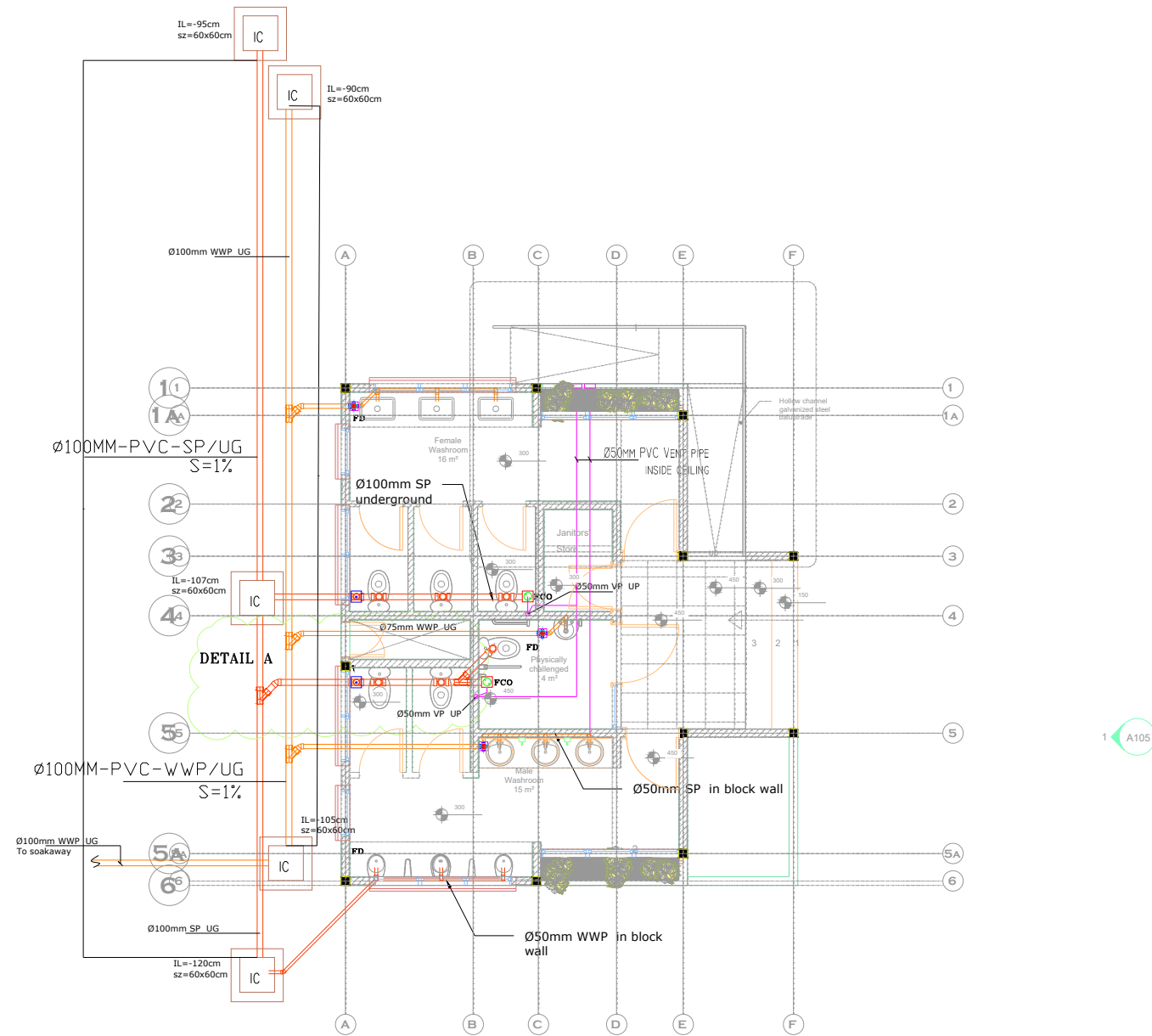
SHEET
NO:

DATE: APRIL 2022

MP-02



LEGEND	
SYMBOL	DESIGNATION
	COLD WATER PIPE LINE
	VALVE
CWS	COLD WATER SUPPLY
IL	INVERT LEVEL
CL	FROM CEILING LEVEL
AFFL	ABOVE FINISH FLOOR LEVEL
	URINAL VALVE
	ANGLE VALVE
	STRAIGHT TEE
<div>KREAT ENGINEERING SERVICES Building service Engineers Mechanical Electrical and Plumbing(MEP) Phone: +233 270 270 004 Email: kreatengineering@gmail.com</div>	
<div><h1>Terraform</h1><p>Design Studio</p><p>Tel: +233 242 035 872 e-mail: info@terraformstudio.net</p></div>	
<div>PROJECT: CONSTRUCTION OF WASH FACILITY AND RENOVATION OF OFFICE</div> <div>LOCATION: PULMAKON</div>	
<div>CLIENT: INTERNATIONAL ORGANIZATION FOR MIGRATION (IOM)</div>	
<div>SHEET TITLE: WASH BUILDING WATER DISTRIBUTION LAYOUT</div>	
<div>DESIGNED BY: NOAH</div>	<div>SCALE: 1 : 100</div>
<div>DRAWN BY: FIKANDY</div>	<div>JOB NO.:</div>
<div>REVISION NO. 1 BY: NOAH</div>	<div>SHEET NO: MP-04</div>
<div>DATE: APRIL 2022</div>	



LEGEND	
SYMBOL	DESIGNATION
	WASTE WATER PIPE
	VENT PIPE
	SOIL WASTE PIPE
UG	UNDER GROUND
S	SLOPE
VP	VENT PIPE
IC	INSPECTION CHAMBER
	FLOOR CLEAN OUT
FD	FLOOR DRAIN
WWP	WASTE WATER PIPE

K
E
S

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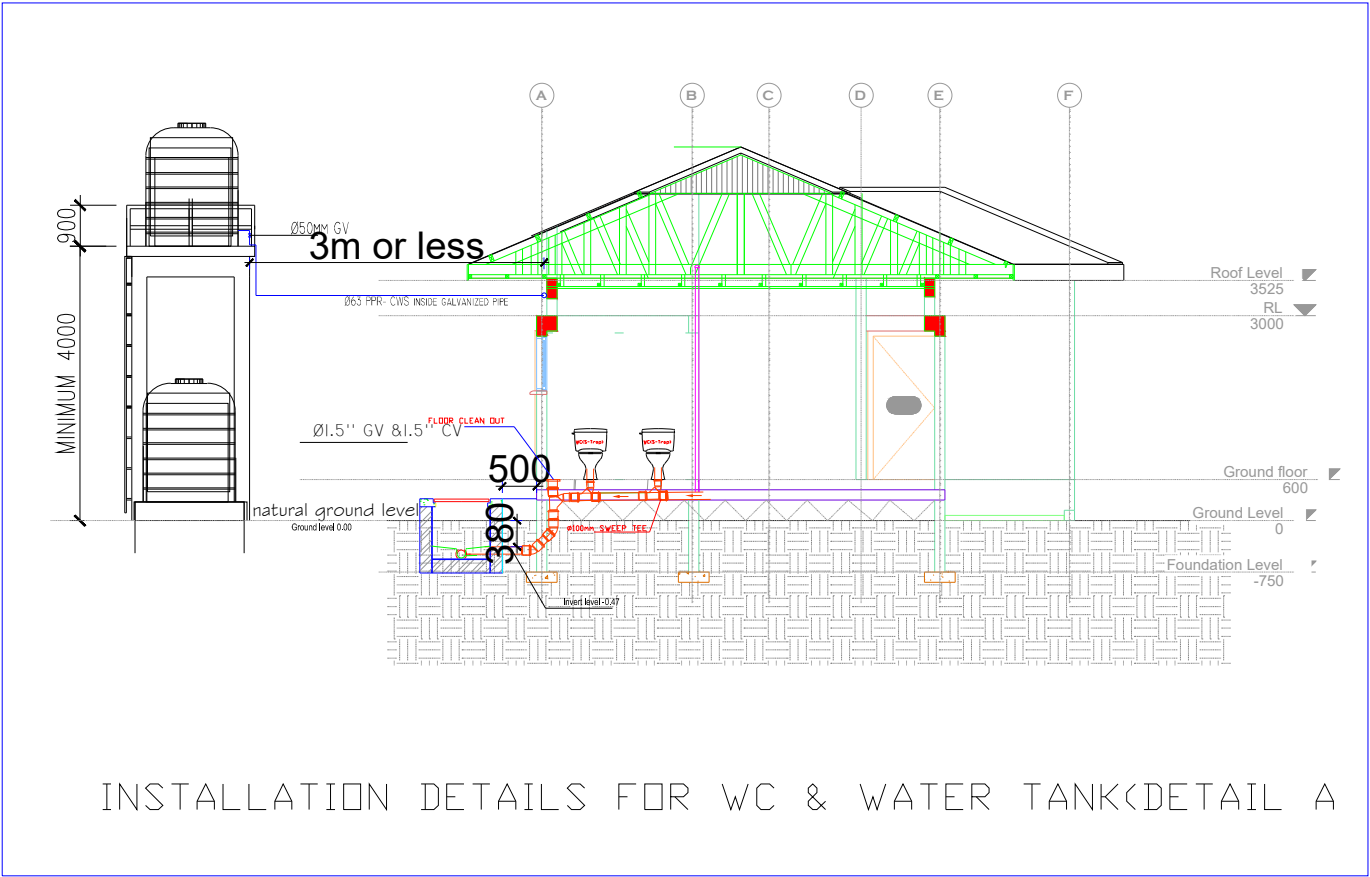
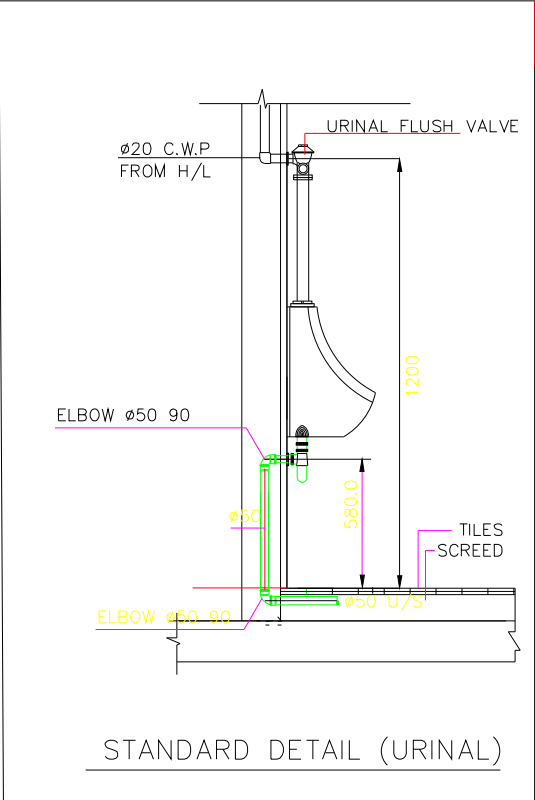
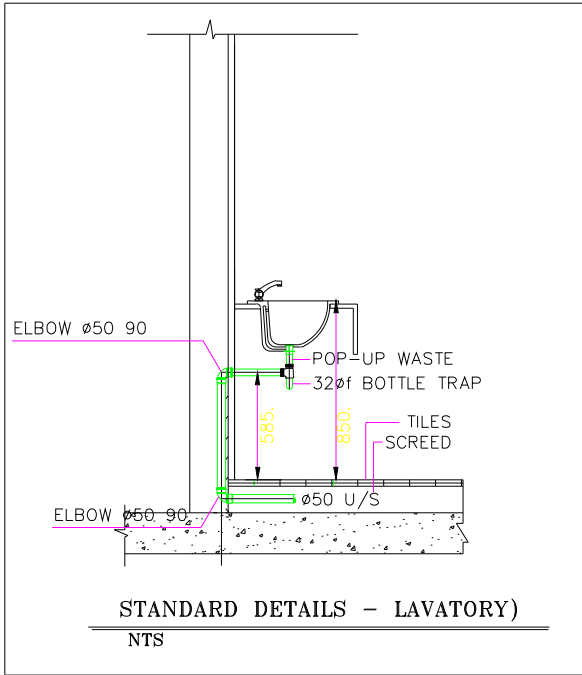
PROJECT:
CONSTRUCTION OF WASH FACILITY
AND RENOVATION OF OFFICE

LOCATION: PULMAKON

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE: WASH BUILDING WASTE DRAINAGE
LAYOUT

DESIGNED BY: NOAH	SCALE: 1 : 100
DRAWN BY: FIKANDY	JOB NO.:
REVIEWED BY: NOAH	SHEET NO: MP-05
DATE: APRIL 2022	



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PROJECT:
CONSTRUCTION OF WASH FACILITY
AND RENOVATION OF OFFICE
LOCATION: PULMAKON

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE: PLUMBING INSTALLATION DETAILS

DESIGNED BY: NOAH

SCALE:
1 : 100

DRAWN BY: FIKANDY

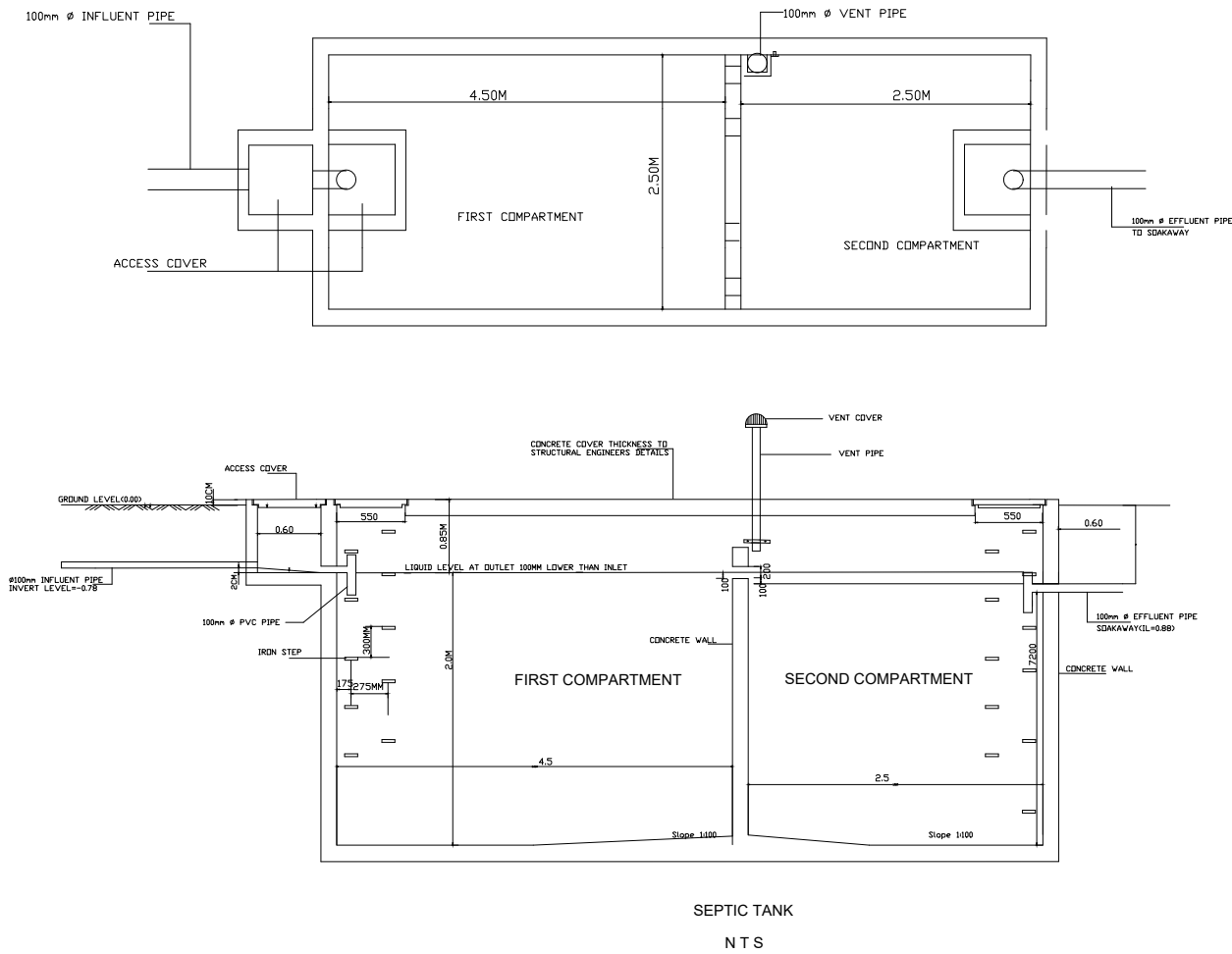
JOB NO.:

DESIGNED BY: NOAH

SHEET
NO:

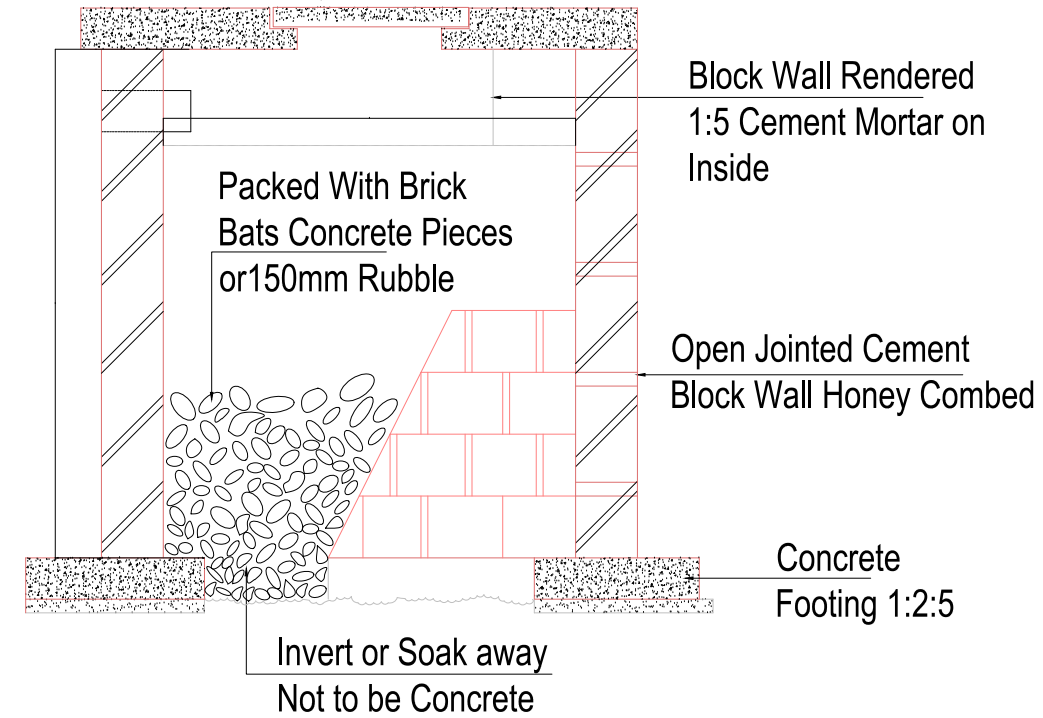
DATE: APRIL 2022

MP-06



50mm Pre cast Concrete
Access Cover

SOAKAWAY SIZE=3Mx3M



*Septic tank shall be Dislodged every two years

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PROJECT:
CONSTRUCTION OF WASH FACILITY
AND RENOVATION OF OFFICE

LOCATION: PULMAKON

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE: PLUMBING INSTALLATION DETAILS

DESIGNED BY: NOAH

DRAWN BY: FIKANDY

CHECKED BY: NOAH

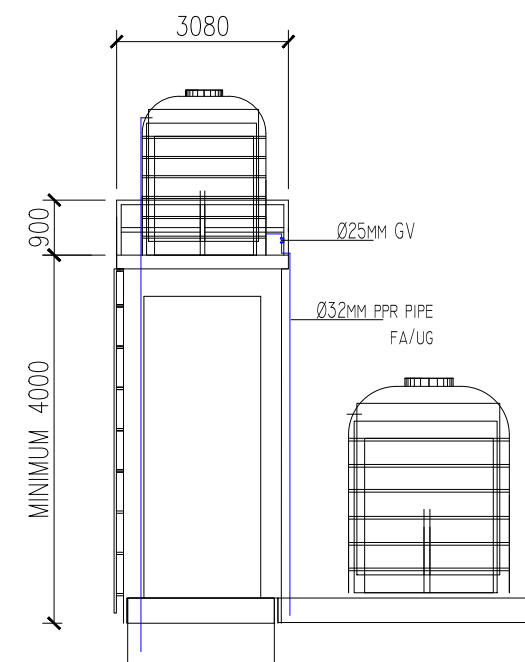
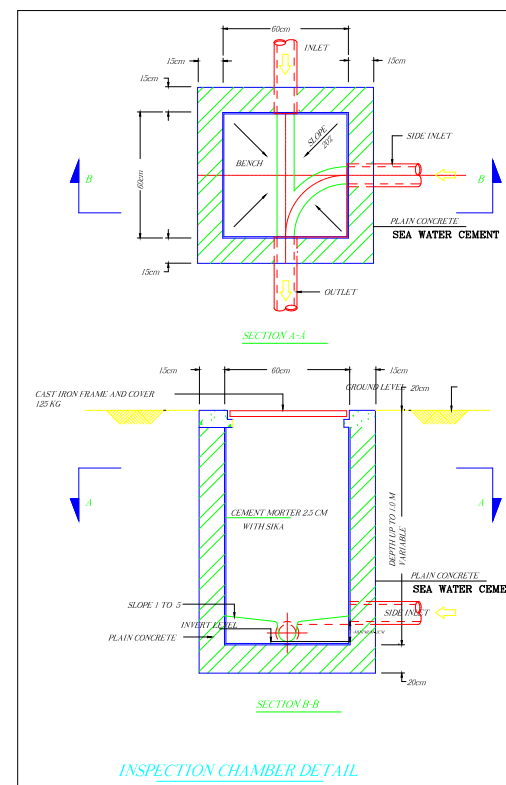
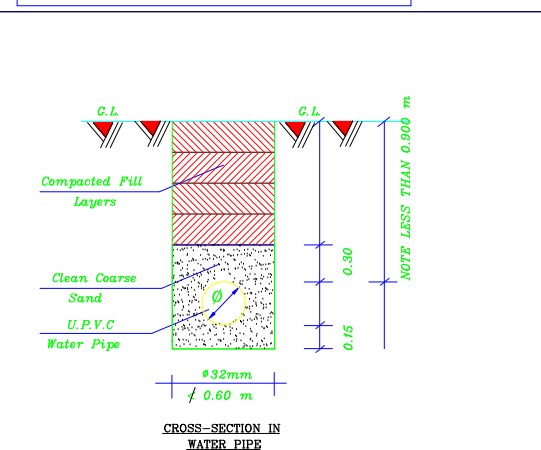
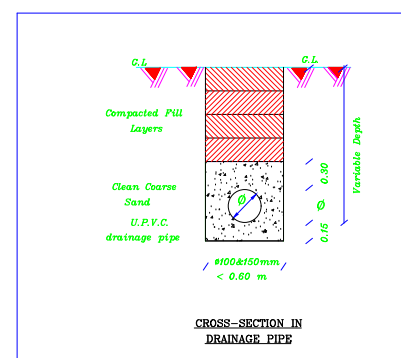
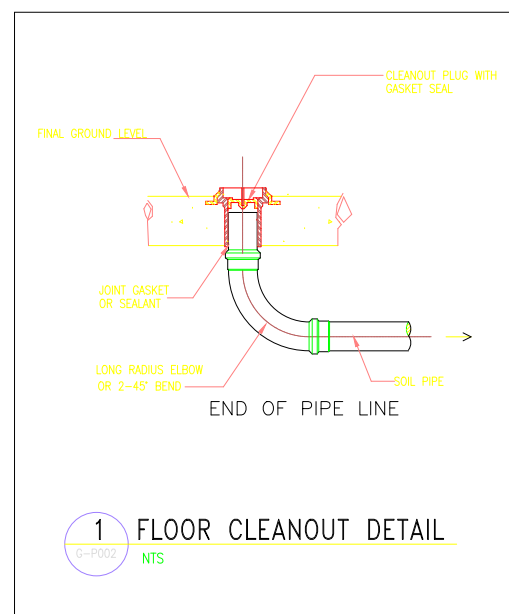
DATE: APRIL 2022

SCALE:
1 : 100

JOB NO.:

SHEET
NO:

MP-07





LEGEND	
SYMBOL	DESIGNATION
	WASTE WATER PIPE
	VENT PIPE
	SOIL WASTE PIPE
UG	UNDER GROUND
VP	VENT PIPE
IC	INSPECTION CHAMBER
	FLOOR CLEAN OUT
WWP	WASTE WATER PIPE

K
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S

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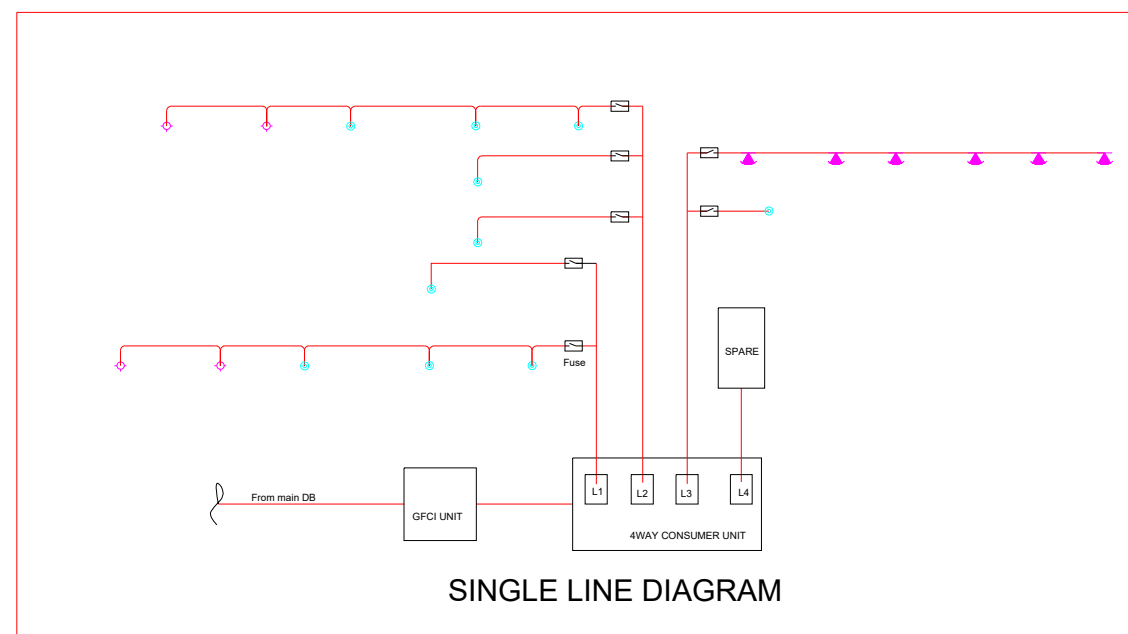
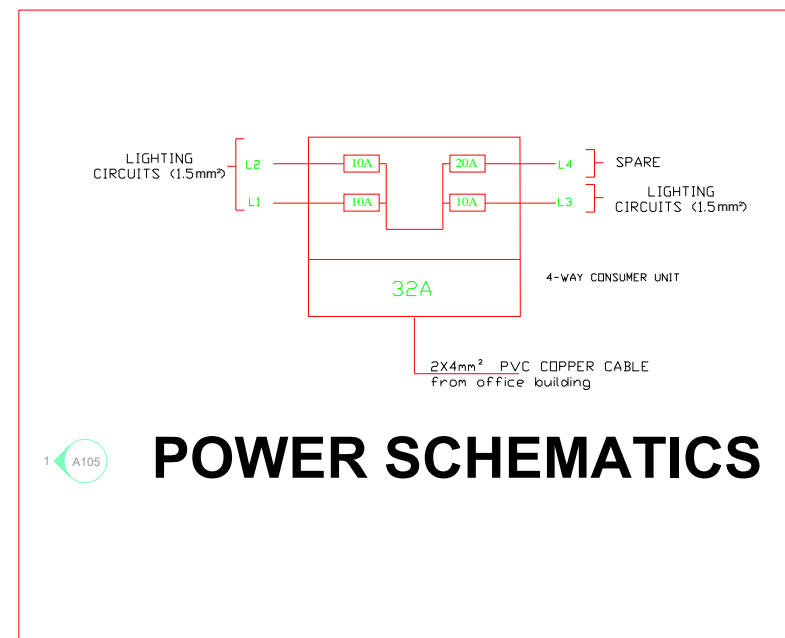
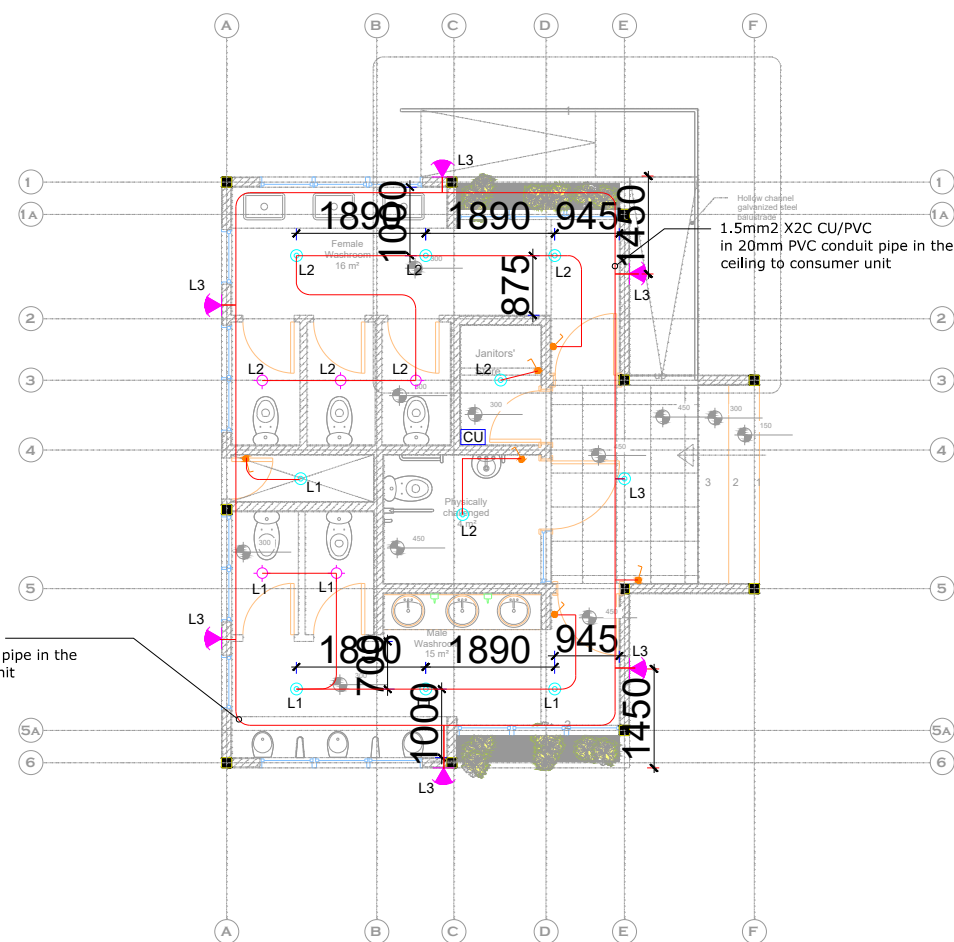
PROJECT:
CONSTRUCTION OF WASH FACILITY
AND RENOVATION OF OFFICE

LOCATION: PULMAKON

CLIENT:
INTERNATIONAL ORGANIZATION FOR
MIGRATION (IOM)

SHEET
TITLE:
EXTERNAL PLUMBING LAYOUT

DESIGNED BY: NOAH	SCALE: 1 : 100
DRAWN BY: FIKANDY	JOB NO.:
DATE: APRIL 2022	SHEET NO: MP-08



SYMBOL	DESCRIPTION
	18w Surface Mounted LED Down Lighter with acrylic diffuser
	12w Surface Mounted LED Down Lighter with acrylic diffuser
	26w, Wall Mounted LED External Light Fitting-Water proof IP65
	10A One Way One Gang Switch
	4WAY Consumer unit
	1.5mm² x 2c electrical cable

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PROJECT:
 CONSTRUCTION OF WASH FACILITY
 AND RENOVATION OF OFFICE

LOCATION: PULMAKON

CLIENT:
 INTERNATIONAL ORGANIZATION FOR
 MIGRATION (IOM)

SHEET TITLE: WASH FACILITY ELECTRICAL
 SYSTEM

DESIGNED BY: W.G

SCALE:
1 : 100

DRAWN BY: J.A

JOB NO.:

CHECKED BY: W.G

SHEET NO:

DATE: APRIL 2022

MP-09