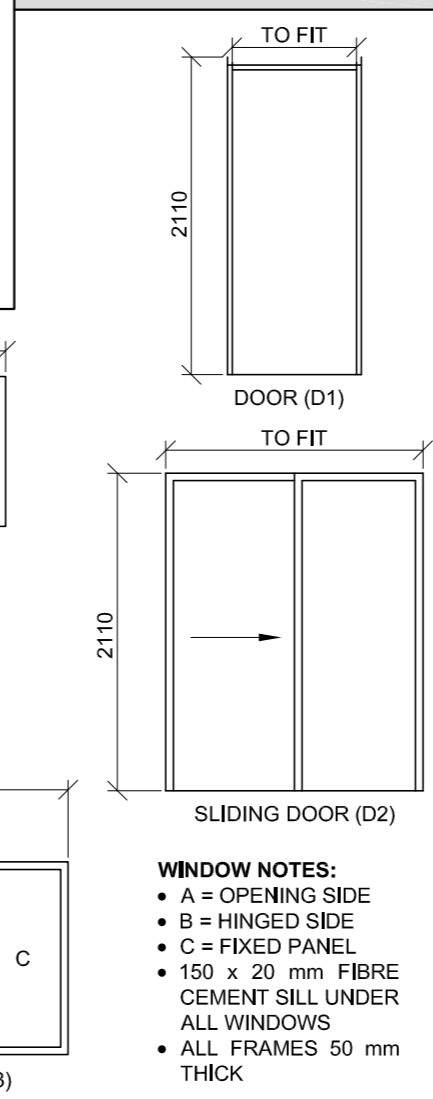


DOOR AND WINDOW SCHEDULE



QUESTION 4: CIVIL DRAWING

Given:

- The incomplete west elevation of a **new house** showing the walls, the sliding door and window openings, the roof and notes
- The incomplete floor plan showing the walls, positions of the doors, windows, fixtures and the electrical layout
- A schematic diagram of a roof truss and roof notes
- The incomplete detail of the foundations and walls for the veranda
- Room designations and floor finishes
- A table of electrical symbols
- A door and window schedule
- A table of roof components
- A table of fixtures
- The incomplete floor plan of the **new house**, drawn to scale 1 : 50, and the incomplete foundation and break line of the detailed section, drawn to scale 1 : 20, on page 6

Instructions:

Answer this question on page 6.

4.1 Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1 : 50, the following views of the **new house**:

4.1.1 THE COMPLETE FLOOR PLAN

Add the following features to the drawing:

- ALL doors and windows
- The fixtures as indicated by the abbreviations
- ALL electrical fittings as indicated by the numbers
- ALL hatching detail

4.1.2 THE COMPLETE WEST ELEVATION

Show the following features on the drawing:

- The outside walls, sliding door and window detail
- The veranda detail
- The roof detail, including the roof cap, barge boards, fascia board, gutter and rainwater down-pipe
- The finished floor level

4.2 Using the incomplete foundation and break line on page 6, draw, to scale 1 : 20, a **DETAILED SECTION** on cutting plane C-C of the area in the ellipse shown on the incomplete floor plan.

Show the following features on the drawing:

- The complete detail of the foundations and walls for the veranda
- The door detail
- The roof detail, including the fascia board, gutter and barge board
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

Label the following:

- The west elevation
- The room designations and floor finishes
- Ground level, finished floor level and damp-proof course (use the correct abbreviations and show them on ALL the relevant views)

NOTE:

ALL drawings must comply with the **guidelines** and **graphical symbols** as contained in the **SANS 10143**. [93]

FEATURES

- D1** DOOR
- D2** SLIDING DOOR
- W1 TO W3** WINDOWS

FIXTURES

- WC** TOILET
- WB** WASHBASIN
- SH** SHOWER
- S** SINK

ELECTRICAL FITTINGS

- ONE-WAY SWITCH - SINGLE-POLE
- ONE-WAY SWITCH - DOUBLE-POLE
- FLUORESCENT LIGHT 2 x 40 W
- WALL-MOUNTED LIGHT
- CEILING LIGHT
- SWITCHED SOCKET OUTLET
- DISTRIBUTION BOARD

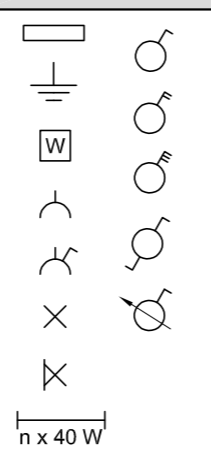
NOTE:

THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.

FLOOR FINISHES

- BEDROOM: CARPET
- VERANDA: GRANO
- LIVING AREA: WOOD
- KITCHEN: TILE
- BATHROOM: TILE

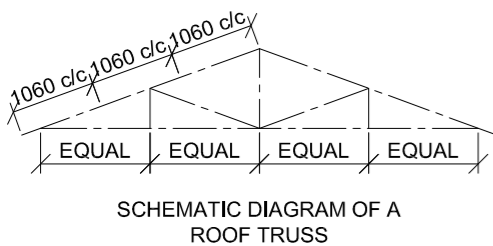
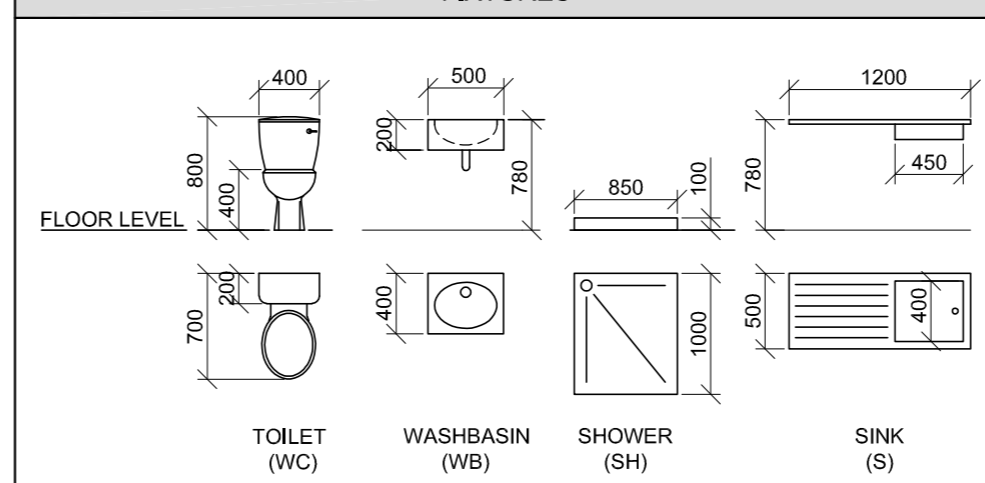
ELECTRICAL SYMBOLS



ROOF COMPONENTS

	114 x 38 mm WALL PLATE		300 x 75 x 10 mm FIBRE CEMENT BARGE BOARD
	200 x 20 mm FASCIA BOARD		ROOF CAP

FIXTURES



ROOF NOTES:

20° ROOF PITCH

114 x 38 mm ROOF TRUSSES ON 114 x 38 mm WALL PLATES

240 mm ROOF OVERHANG TO END OF ROOF TRUSSES

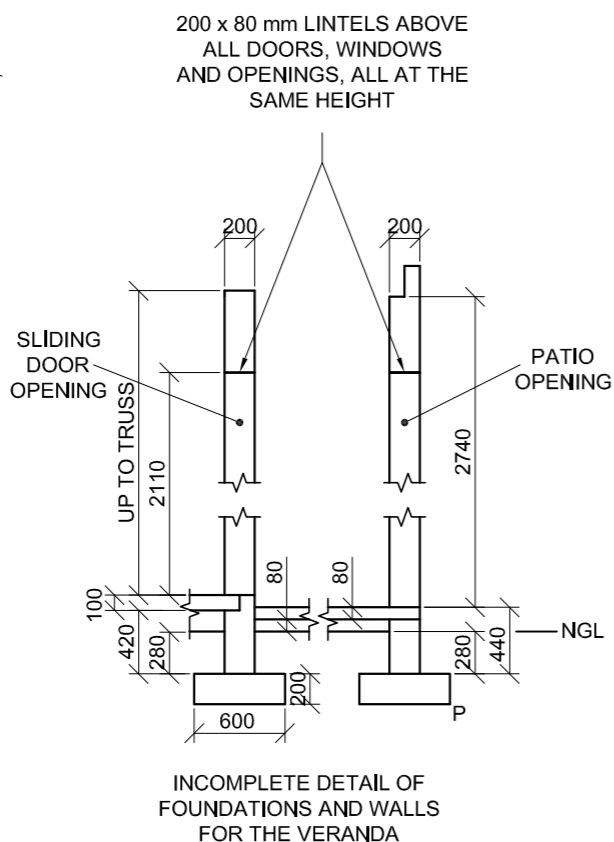
30 mm CORRUGATED ROOF SHEETING ON 75 x 50 mm PURLINS @ 1060 mm c/c

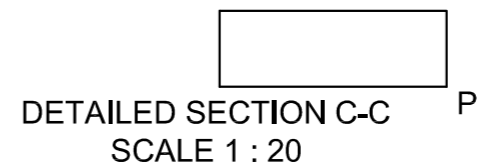
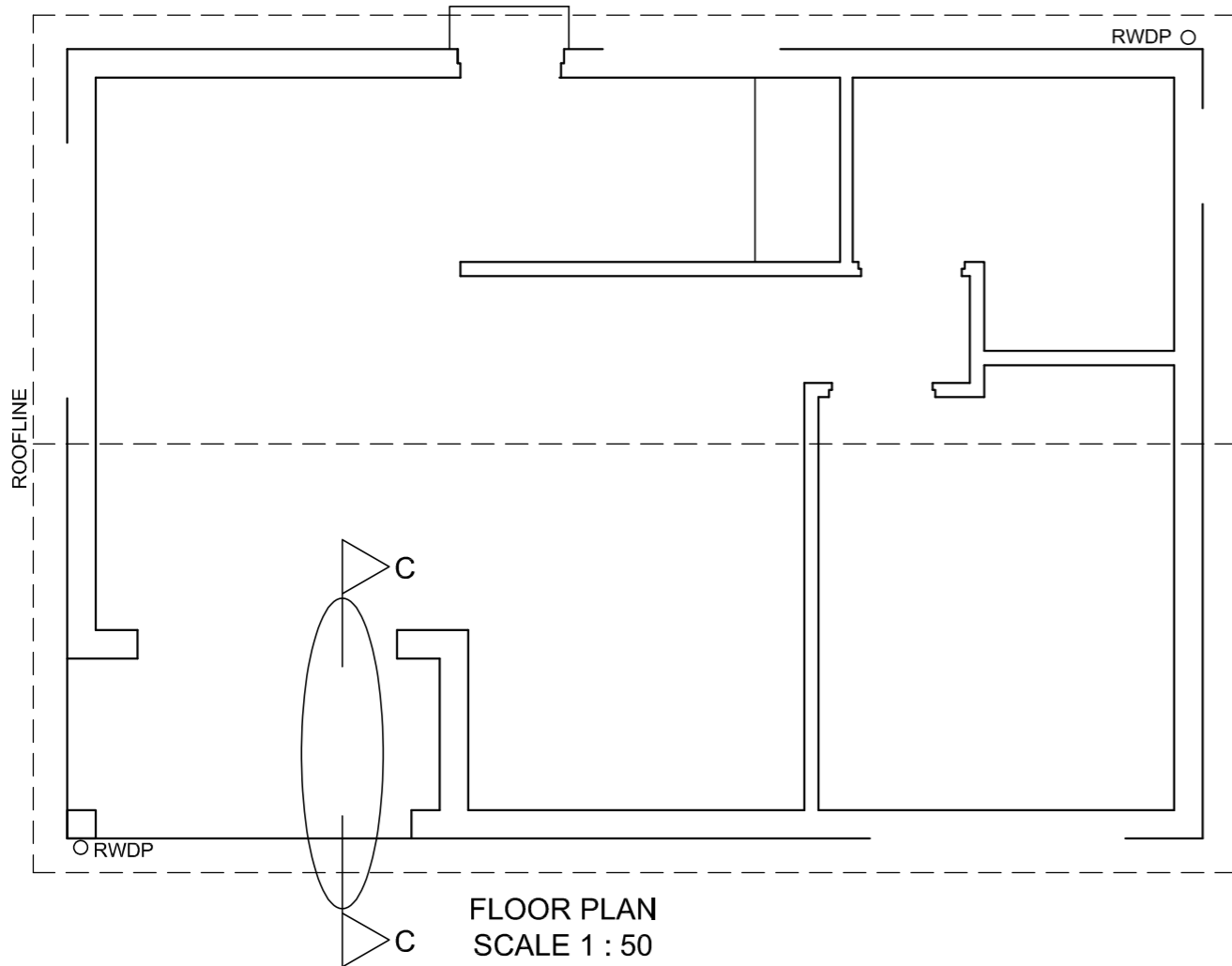
300 x 75 x 10 mm BARGE BOARD ON GABLE ENDS, 20 mm PAST THE GUTTER

200 x 20 mm FASCIA BOARD ON BOTH SIDES

150 x 100 mm GUTTER ON BOTH SIDES WITH Ø100 RAINWATER DOWN-PIPES

10 mm CEILING BOARD ON 38 x 38 mm BRANDING STRIPS @ 460 mm c/c

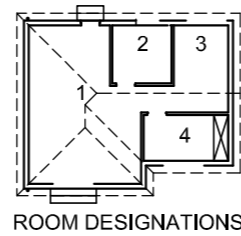
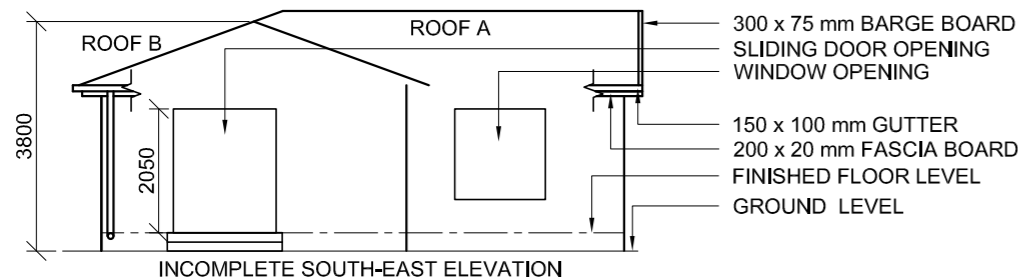




MARK ALLOCATION FOR ROOF SECTION (4.2)		FOR OFFICIAL USE ONLY	
A (1)		INCORRECT SCALE	
B (1)		NON-ALIGNMENT OF VIEWS	
C (2)		VIEW(S) ROTATED	
D (3)		SECTION VIEWED INCORRECTLY	
E (2)		INCORRECT LETTERING	
F (1)			
G (1)			
H (2)			
I (1)			
J (1)			
TOTAL		TOTAL	

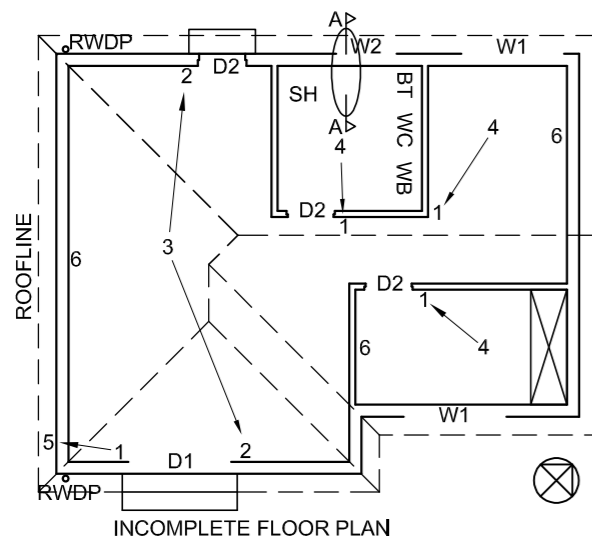
ASSESSMENT CRITERIA				
FLOOR PLAN				
		POSSIBLE	OBTAINED	MARKS
1	DOORS + WINDOWS	13 1/2		
2	FIXTURES	7		
3	ELECTRICAL	9 1/2		
4	HATCHING	4		
5	LABELS	5		
SUBTOTAL		39		
WEST ELEVATION				
1	ROOF + RWDP	5 1/2		
2	WALLS + FFL + STEP	4		
3	DOOR + WINDOW	7 1/2		
4	LABELS	1 1/2		
SUBTOTAL		18 1/2		
DETAILED SECTION				
1	ROOF	12		
2	FOUNDATION + WALL + SLAB + DOOR + LINTEL	13 1/2		
3	HATCHING	9		
4	LABELS	1		
SUBTOTAL		35 1/2		
TOTAL		93		
TOTAL PENALTIES (-)				
GRAND TOTAL				
EXAMINATION NUMBER				
EXAMINATION NUMBER				6





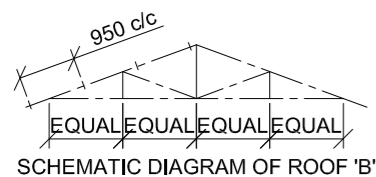
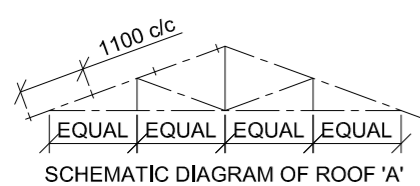
ROOF COMPONENTS	
	300 x 75 mm BARGE BOARD
	200 x 20 mm FASCIA BOARD
	ROOF CAP

ELECTRICAL SYMBOLS	

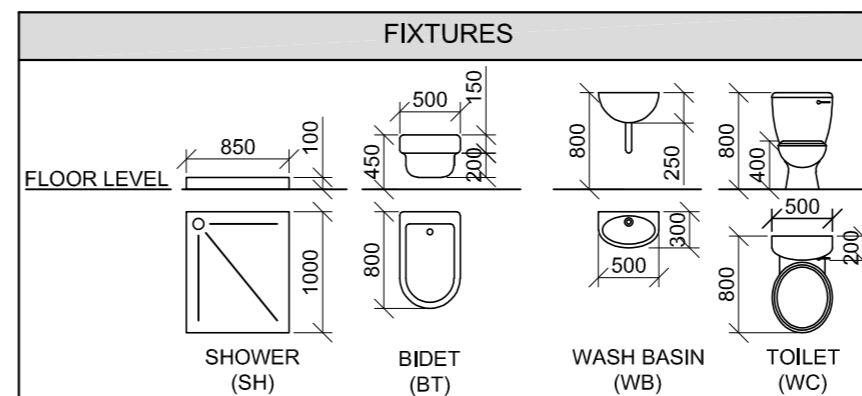
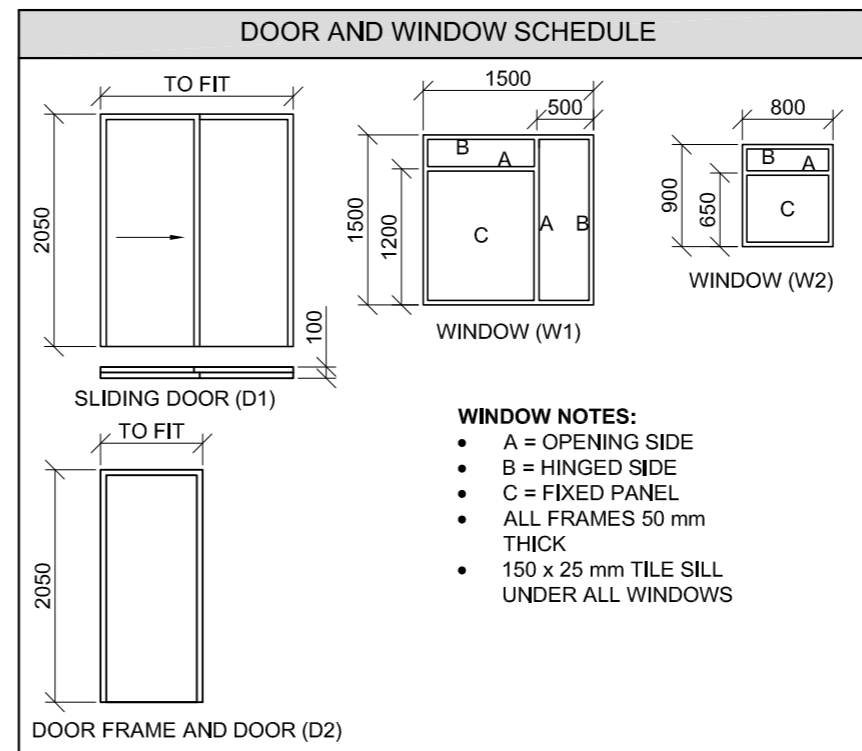
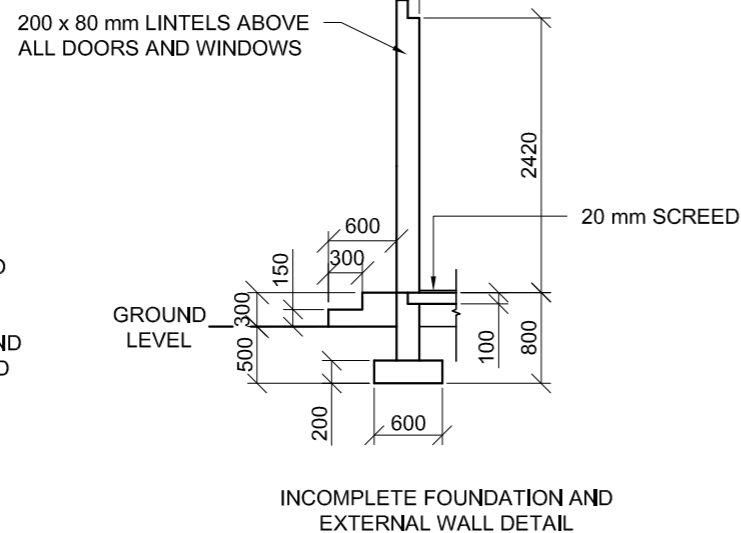


- FEATURES**
D1 SLIDING DOOR
D2 DOOR
W1 AND W2 WINDOWS
- FIXTURES**
WC TOILET
WB WASH BASIN
BT BIDET
SH SHOWER
- ELECTRICAL FITTINGS**
 1. ONE-WAY SWITCH - SINGLE POLE
 2. TWO-WAY SWITCH - SINGLE POLE
 3. FLUORESCENT LIGHT 2 x 40 W
 4. CEILING LIGHT
 5. WALL-MOUNTED LIGHT
 6. SWITCHED SOCKET OUTLET
- FLOOR FINISHES**
 1 LIVING AREA CARPET
 2 BATHROOM TILE
 3 HOBBY ROOM TILE
 4 BEDROOM CARPET

NOTE:
 THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



- ROOF NOTES:**
 20° ROOF PITCH
 114 x 38 mm ROOF TRUSSES ON
 114 x 38 mm WALL PLATES
 300 mm ROOF OVERHANG TO END OF ROOF TRUSSES
 10 mm FIBRE CEMENT ROOF SHEETING ON
 75 x 50 mm PURLINS SPACED ACCORDING TO SCHEMATIC DIAGRAMS
 200 x 20 mm FASCIA BOARD ON ALL SIDES AND
 300 x 75 mm BARGE BOARDS ON THE GABLED END, 20 mm PAST THE GUTTER
 150 x 100 mm GUTTERS WITH Ø75 RWDP ON ALL SIDES
 10 mm CEILING BOARDS ON 38 x 38 mm BRANDING STRIPS @ 450 c/c



QUESTION 4: CIVIL DRAWING

Given:

- The incomplete south east elevation of a **new house**, showing the walls, the sliding door and window openings, the roof and notes
- The incomplete floor plan showing the walls, positions of steps, doors, windows, fixtures and the electrical layout
- Schematic diagrams of the roof trusses and roof notes
- The incomplete foundation and external wall detail
- Room designations and floor finishes
- A table of roof components
- A table of electrical symbols
- A door and window schedule
- A table of fixtures
- The incomplete floor plan of the **new house**, drawn to scale 1 : 50, and the incomplete foundation and the breakline of the detailed section, drawn to scale 1 : 20, on page 6

Instructions:

Answer this question on page 6.

4.1 Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1 : 50 the following views of the **new house**:

4.1.1 THE COMPLETE FLOOR PLAN

Add the following features to the drawing:

- ALL doors and windows
- ALL fixtures as indicated by the abbreviations
- ALL electrical fittings as indicated by the numbers
- ALL hatching detail

4.1.2 THE COMPLETE SOUTH-EAST ELEVATION

Show the following features on the drawing:

- The outside walls, sliding door, steps and window detail
- The roof detail, including the fascia boards, gutters, barge board, roof cap and rainwater downpipe
- The finished floor level

4.2 Using the incomplete foundation and breakline on page 6, draw, to scale 1 : 20, a **DETAILED SECTION** on cutting plane A-A of the area in the ellipse shown on the incomplete floor plan.

Show the following features on the drawing:

- The complete foundation and external wall detail
- The window detail
- The roof detail, including the fascia board, gutter and barge board
- The bidet
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

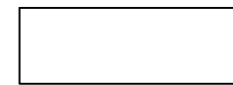
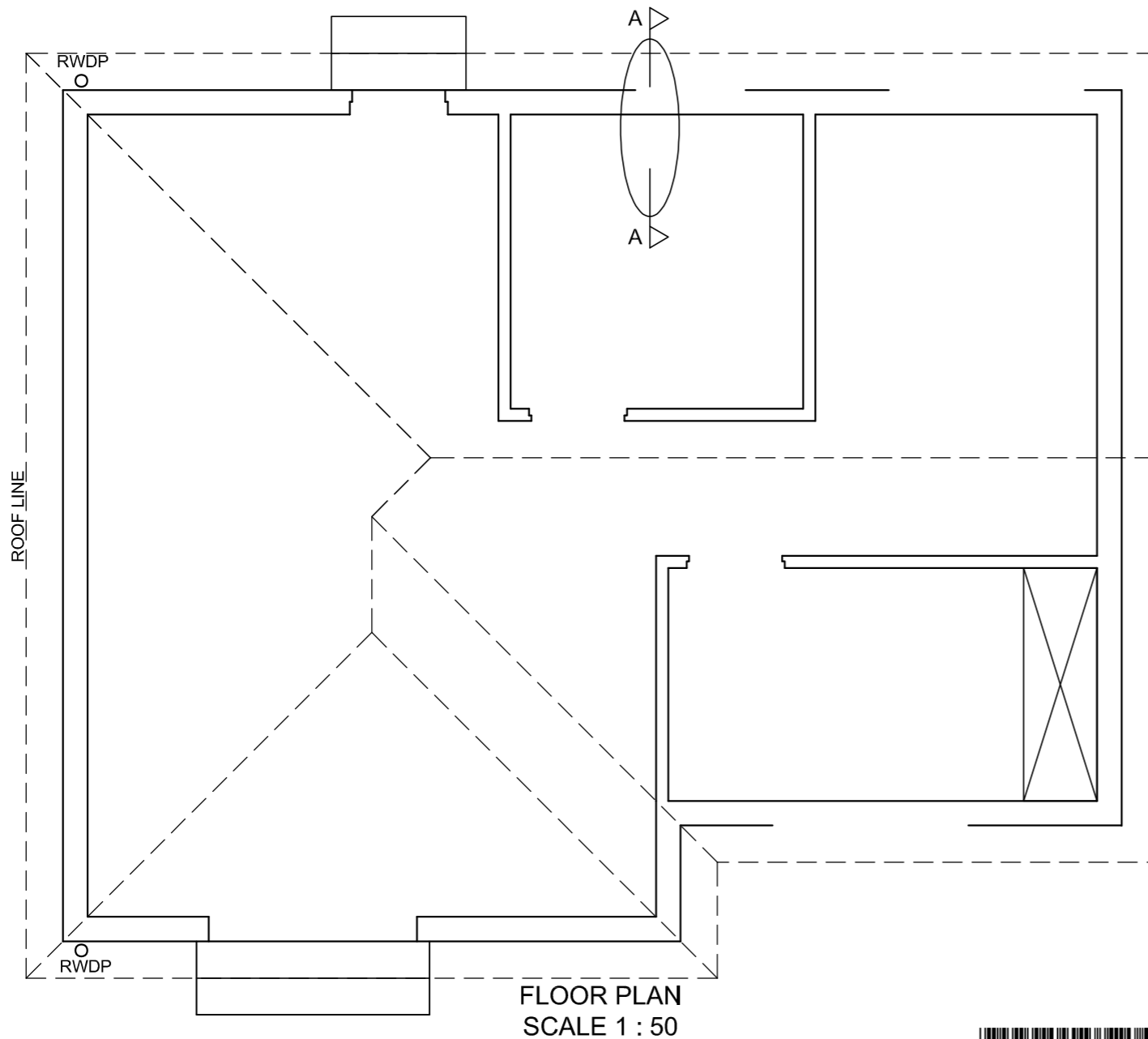
Label the following:

- The south-east elevation
- The room designations and floor finishes
- Ground level, finished floor level, damp-proof course and built-in cupboard (use the correct abbreviations and show them on all the relevant views)

NOTE:

ALL drawings must comply with the **guidelines** and **graphical symbols** as contained in the **SANS 10143**. [95]



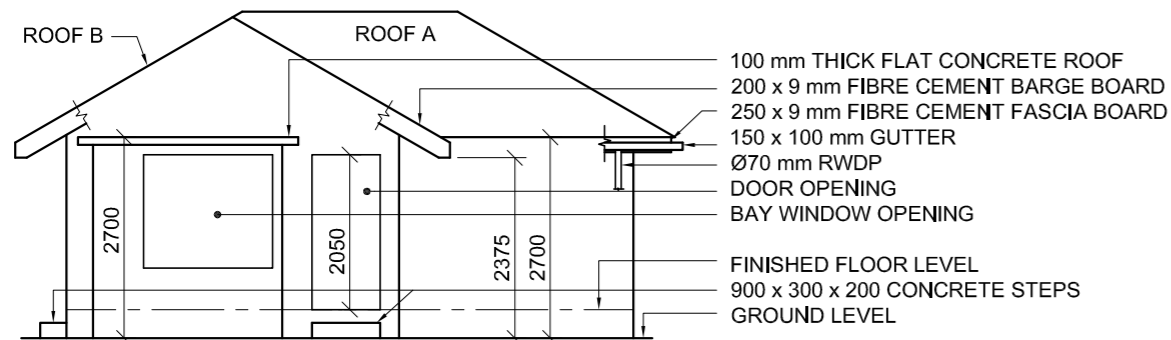


SECTION A - A
SCALE 1 : 20

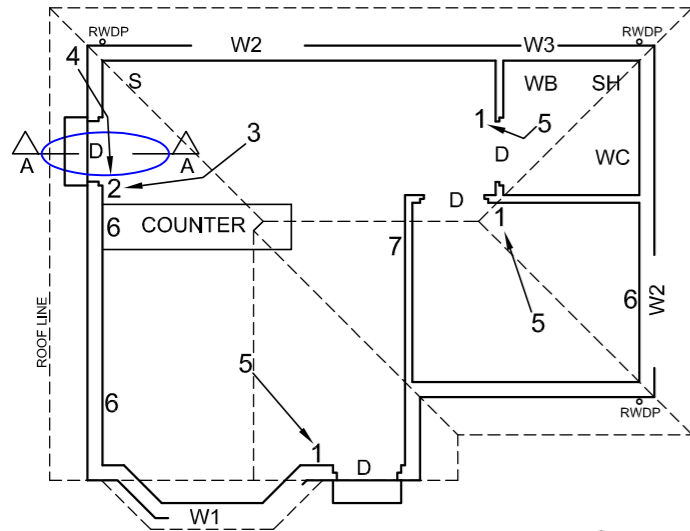
1. MARK ALLOCATION FOR ROOF SECTION		FOR OFFICIAL USE ONLY	
A (1)		INCORRECT SCALE(S) USED	
B (1)		NON-ALIGNMENT OF VIEWS	
C (2)		VIEW(S) ROTATED	
D (3)		SECTION VIEWED INCORRECTLY	
E (2)		INCORRECT LETTERING	
F (1)			
G (1)			
H (1)			
I (1)			
TOTAL		TOTAL	

ASSESSMENT CRITERIA				
FLOOR PLAN				
		POSSIBLE	OBTAINED	MARKS
1	DOORS + WINDOWS	11		
2	FIXTURES	7		
3	ELECTRICAL	10 1/2		
4	HATCHING	4		
5	LABELS	4 1/2		
SUBTOTAL		37		
SOUTH EAST ELEVATION				
1	ROOF + RWDP	9 1/2		
2	WALLS + FFL + STEPS	4 1/2		
3	DOOR + WINDOW	8		
4	LABELS	1 1/2		
SUBTOTAL		23 1/2		
DETAILED SECTION				
1	ROOF DETAIL	13		
2	FOUNDATION + WALL + SLAB	7		
3	WINDOW + SILL	3 1/2		
4	FIXTURES	3 1/2		
5	HATCHING	6		
6	LABELS	1 1/2		
SUBTOTAL		34 1/2		
TOTAL		95		
PENALTIES (-)				
GRAND TOTAL				
EXAMINATION NUMBER				
EXAMINATION NUMBER				6





INCOMPLETE WEST ELEVATION



INCOMPLETE FLOOR PLAN

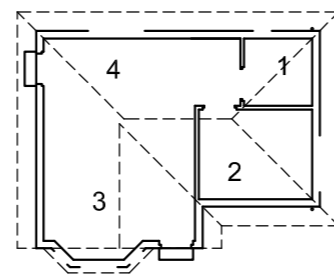


- FEATURES**
D DOOR
W1 TO W3 WINDOWS
- FIXTURES**
WC TOILET
WB WASHBASIN
SH SHOWER
S SINK

- ELECTRICAL FITTINGS**
 1. ONE-WAY SWITCH - SINGLE-POLE
 2. ONE-WAY SWITCH - DOUBLE-POLE
 3. FLUORESCENT LIGHT 3 x 40 W
 4. WALL-MOUNTED LIGHT
 5. CEILING LIGHT
 6. SWITCHED SOCKET OUTLET
 7. DISTRIBUTION BOARD

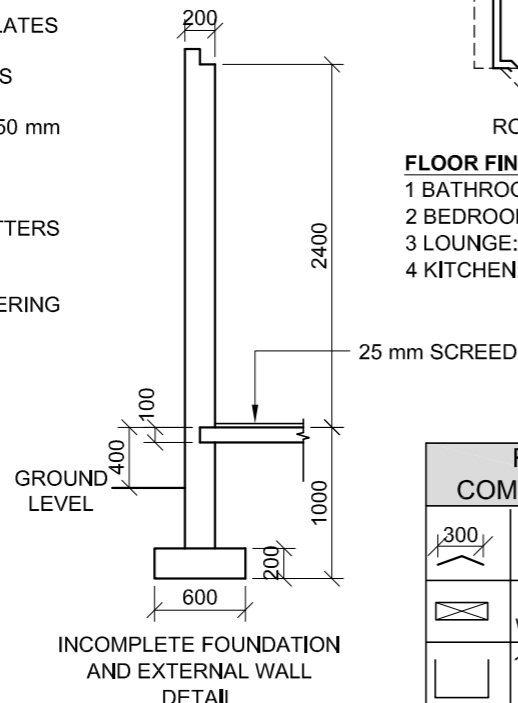
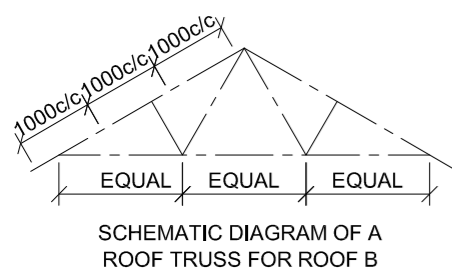
NOTE:
 THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.

ELECTRICAL SYMBOLS	DOOR AND WINDOW SCHEDULE
	DOOR FRAME AND DOOR (D) DOOR NOTE: TWO 75 x 100 mm LINTELS ABOVE THE DOOR
	WINDOW (W3) 500 x 500
	BAY WINDOW (W1) 1320 x 550 (135° angle)
	WINDOW (W2) 1500 x 1000
	WINDOW NOTES: • A = OPENING SIDE • B = HINGED SIDE • C = FIXED PANEL • 150 x 20 mm FIBRE CEMENT SILL UNDER ALL WINDOWS



- FLOOR FINISHES**
 1 BATHROOM: TILE
 2 BEDROOM: CARPET
 3 LOUNGE: CARPET
 4 KITCHEN: TILE

- ROOF NOTES:**
 30° ROOF PITCH
- 114 x 38 mm ROOF TRUSS ON 114 x 38 mm WALL PLATES
- 500 mm ROOF OVERHANG TO END OF ROOF TRUSS
- 10 mm FIBRE CEMENT ROOF SHEETING ON 75 x 50 mm PURLINS @ 1000 mm c/c
- 200 x 9 mm BARGE BOARD ON GABLE ENDS
 250 x 9 mm FASCIA BOARD WITH 150 x 100 mm GUTTERS ON ALL SIDES
- 9 mm CEILING BOARD ON 38 x 38 mm BRANDING STRIPS @ 400 mm c/c



ROOF COMPONENTS	
	ROOF CAP
	114 x 38 mm WALL PLATE
	150 x 100 mm GUTTER

FIXTURES		
SHOWER (SH) 900 x 900	SINK (S) 400 x 450	WASHBASIN (WB) 500 x 400
		TOILET (WC) 600 x 400

QUESTION 4: CIVIL DRAWING

Given:

- The incomplete west elevation of a **new house**, showing the walls, the door and window openings, the roof and notes
- The incomplete floor plan showing the walls, positions of the doors, windows, fixtures and the electrical layout
- A schematic diagram of a roof truss and roof notes
- Room designations and floor finishes
- The incomplete foundation and external wall detail
- A table of roof components
- A table of electrical symbols
- A door and window schedule
- A table of fixtures
- The incomplete floor plan of the **new house**, drawn to scale 1 : 50, and the incomplete foundation of the detailed section, drawn to scale 1 : 20, on page 6

Instructions:

Answer this question on page 6.

4.1 Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1 : 50, the following views of the **new house**:

4.1.1 THE COMPLETE FLOOR PLAN

Add the following features to the drawing:

- ALL doors and windows
- The fixtures as indicated by the abbreviations
- ALL electrical fittings as indicated by the numbers
- ALL hatching detail

4.1.2 THE COMPLETE WEST ELEVATION

Show the following features on the drawing:

- The outside walls, door and window detail
- The roof detail, including the barge boards, fascia boards, gutters and rainwater down-pipe
- The finished floor level

4.2 Using the incomplete foundation on page 6, draw, to scale 1 : 20, a **DETAILED SECTION** on cutting plane A-A of the area in the ellipse shown on the incomplete floor plan.

Show the following features on the drawing:

- The foundation and external wall detail
- The door detail
- The roof detail, including the fascia board and gutter
- The sink
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

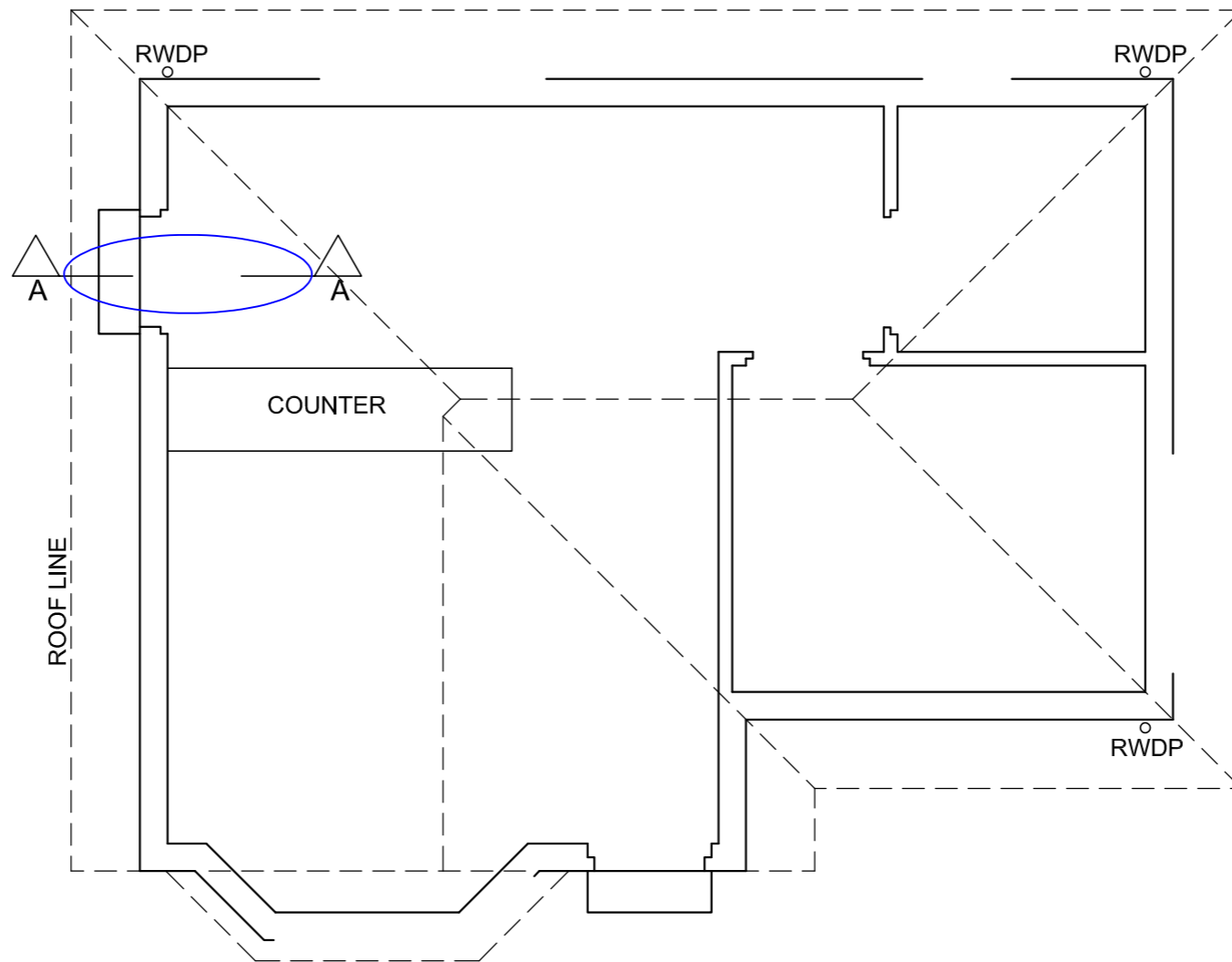
Label the following:

- The west elevation
- The room designations and floor finishes
- Ground level, finished floor level and damp-proof course (use the correct abbreviations and show it on ALL the relevant views)

NOTE:

ALL drawings must comply with the **guidelines** and **graphical symbols** as contained in the **SANS 10143. [95]**





DETAILED SECTION A-A
SCALE 1 : 20

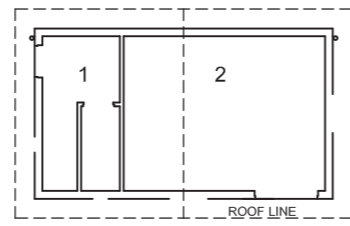
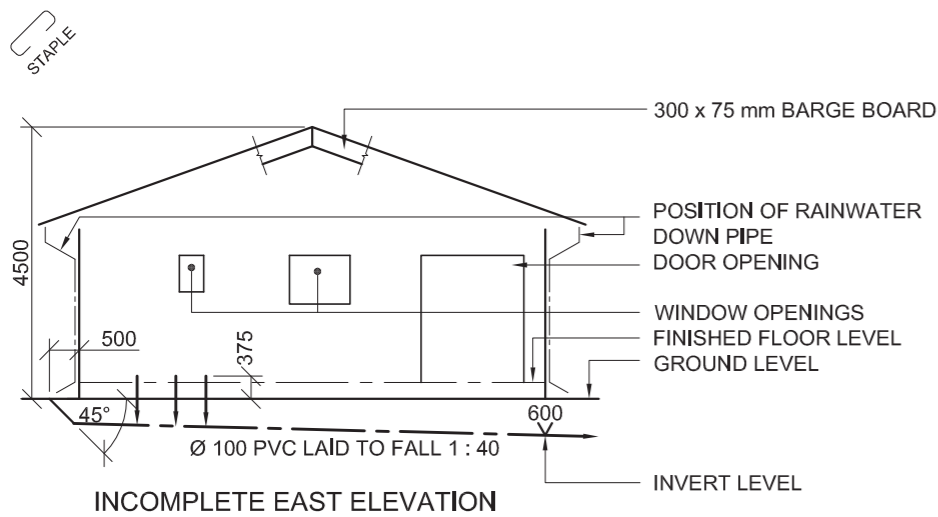
FLOOR PLAN
SCALE 1 : 50

FOR OFFICIAL USE ONLY	
INCORRECT SCALE	
NON-ALIGNMENT OF VIEWS	
VIEW(S) ROTATED	
SECTION VIEWED INCORRECTLY	
INCORRECT LETTERING	
TOTAL	

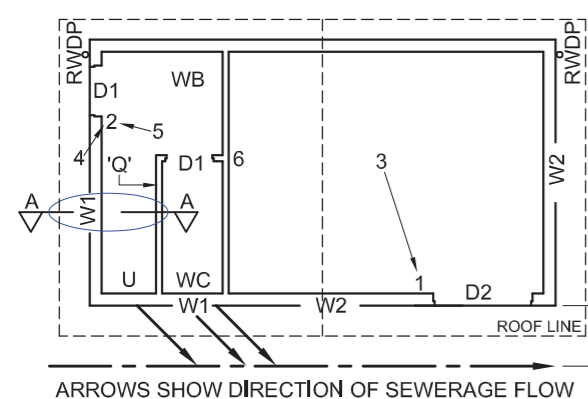
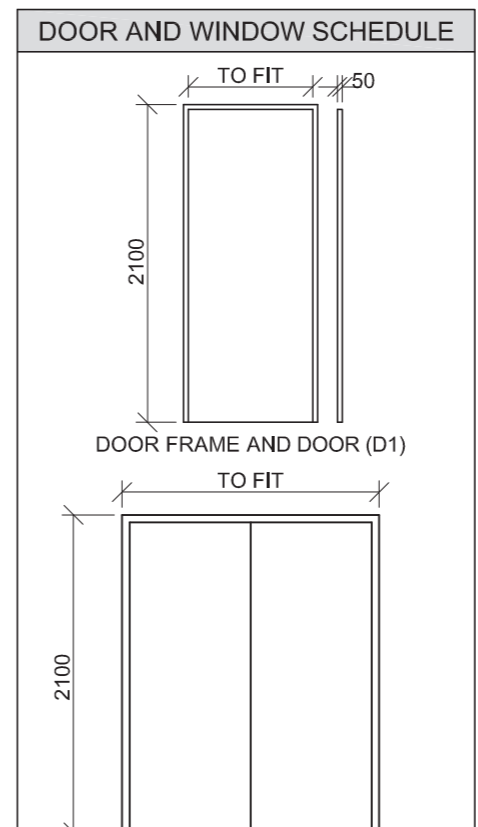
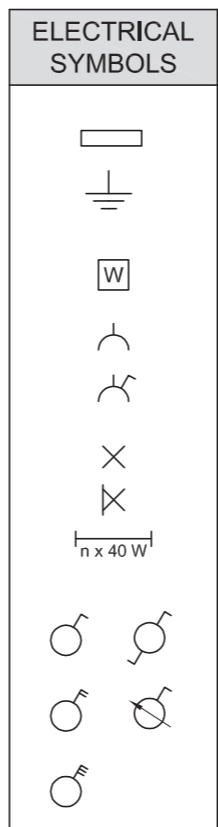
MARK ALLOCATION FOR ROOF SECTION										
A	B	C	D	E	F	G	H	I	J	

ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATED
1	DOORS + WINDOWS	13½			
2	ELECTRICAL	9½			
3	FIXTURES	8½			
4	HATCHING	3			
5	LABELS	4			
SUBTOTAL		38½			
WEST ELEVATION					
1	ROOF + RWDP	12			
2	WALLS + FFL	6½			
3	DOOR + WINDOW	8			
4	LABELS	1½			
SUBTOTAL		28			
DETAILED SECTION					
1	ROOF DETAIL	11			
2	FOUNDATION + WALL + DOOR	9			
3	SINK	3			
4	HATCHING	4½			
5	LABELS	1			
SUBTOTAL		28½			
TOTAL		95			
PENALTIES (-)					
GRAND TOTAL					
EXAMINATION NUMBER					
EXAMINATION NUMBER					





ROOM DESIGNATIONS
FLOOR FINISHES
 1. TOILET: TILE
 2. CHANGE ROOM: TILE

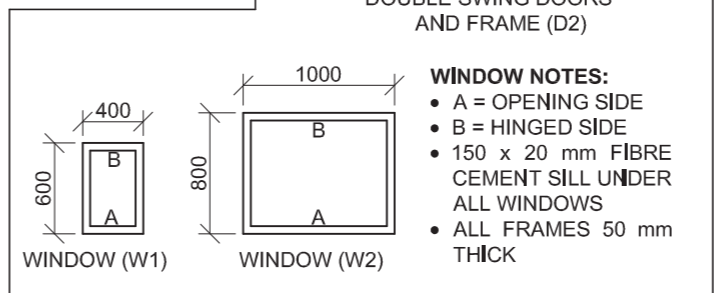
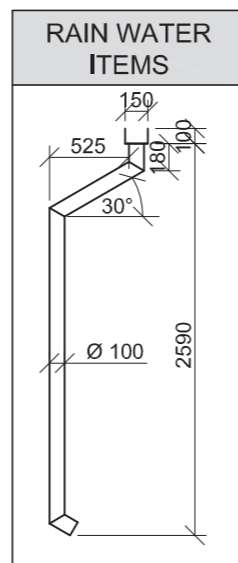


FEATURES
 D1 DOOR
 D2 DOUBLE DOOR
 W1 & W2 WINDOWS

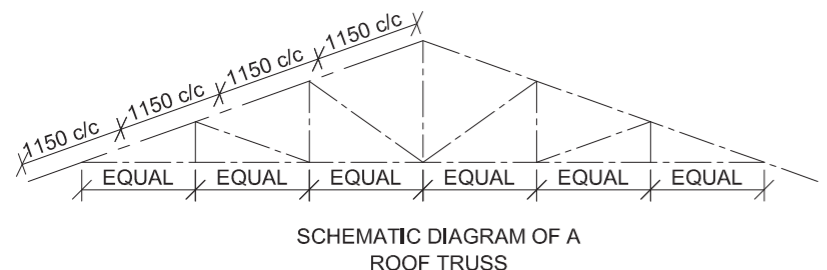
FIXTURES
 WC TOILET
 WB WASH BASIN
 U SINGLE WALL-MOUNTED URINAL

ELECTRICAL FITTINGS
 1. ONE-WAY SWITCH - SINGLE-POLE
 2. ONE-WAY SWITCH - DOUBLE-POLE
 3. FLUORESCENT LIGHT 4 x 40 W
 4. WALL-MOUNTED LIGHT
 5. CEILING LIGHT
 6. SWITCHED SOCKET OUTLET

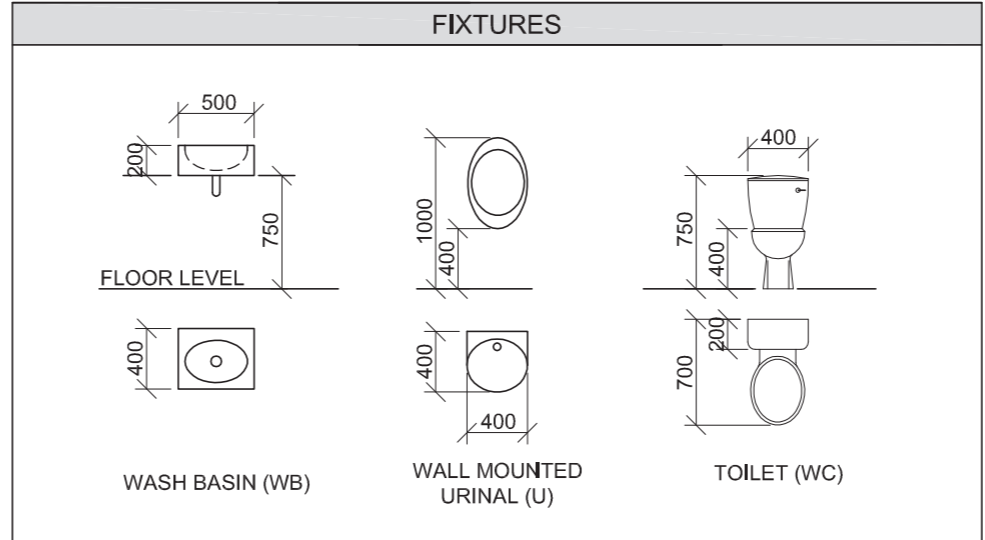
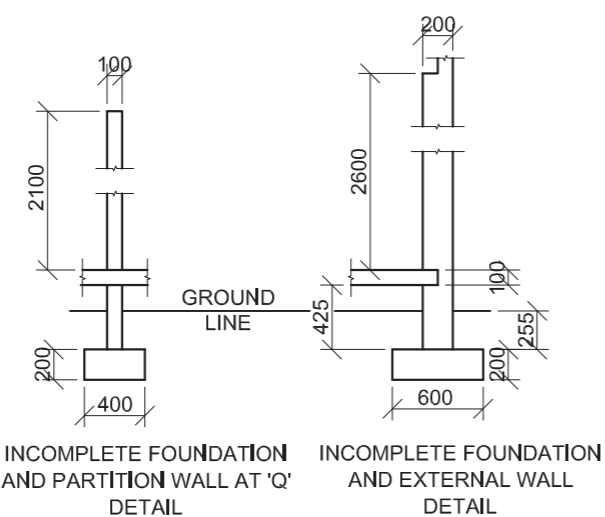
NOTE:
 THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



ROOF COMPONENTS			
	114 x 38 mm WALL PLATE		300 x 75 x 9 mm FIBRE CEMENT BARGE BOARD
	220 x 20 mm FASCIA BOARD		ROOF CAP



ROOF NOTES:
 ROOF PITCH 20°
 114 x 38 mm ROOF TRUSS ON 114 x 38 mm WALL PLATES
 500 mm ROOF OVERHANG TO END OF ROOF TRUSS
 30 mm CORRUGATED ROOF SHEETING ON 75 x 50 mm PURLINS @ 1150 mm c/c
 300 x 75 x 9 mm BARGE BOARD ON GABLE ENDS AND 220 x 20 mm FASCIA BOARD ON BOTH SIDES
 100 x 150 mm GUTTER ON BOTH SIDES
 9 mm CEILING BOARD ON 38 x 38 mm BRANDING STRIPS @ 450 mm c/c



QUESTION 4: CIVIL DRAWING

Given:

- The incomplete east elevation of a **new change room and toilet** showing the walls, the door and window openings, the roof and notes
- The incomplete floor plan showing the walls, positions of the doors, windows, fixtures and the electrical layout
- Schematic diagram of a roof truss and roof notes
- The incomplete foundation and wall detail
- Room designations and floor finishes
- A table of rainwater items
- A table of electrical symbols
- A door and window schedule
- A table of roof components
- A table of fixtures
- The incomplete floor plan of the **new change room and toilet**, drawn to scale 1 : 50, and the incomplete foundation of the external wall, drawn to scale 1 : 20, on page 6

Instructions:

Answer this question on page 6.

4.1 Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1 : 50, the following views of the **new change room and toilet**:

- 4.1.1 THE COMPLETE FLOOR PLAN**
Add the following features to the drawing:
- ALL doors and windows
 - The fixtures as indicated by the abbreviations
 - ALL electrical fittings as indicated by the numbers
 - The sewer lines
 - ALL hatching detail
- 4.1.2 THE COMPLETE EAST ELEVATION**
Show the following features on the drawing:
- The outside walls, door and window detail
 - The roof detail, including the barge boards and the rainwater down-pipes
 - The finished floor level
 - The sewer line

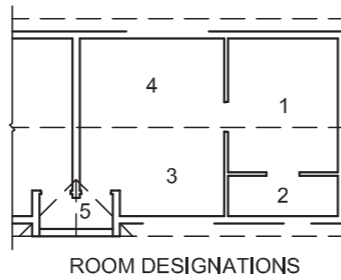
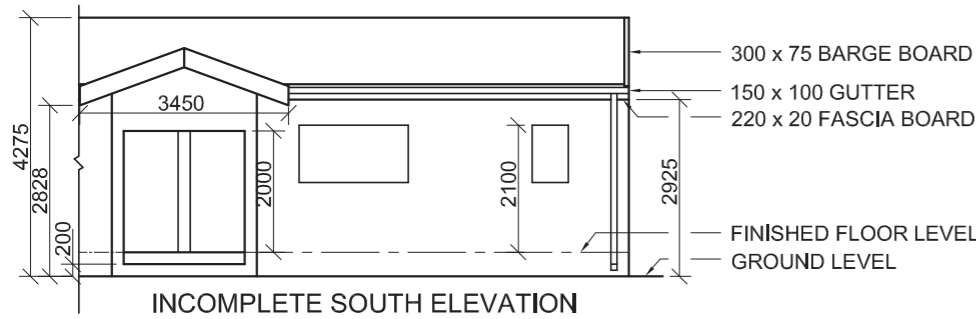
- 4.2 Using the incomplete foundation, draw, to **scale 1 : 20**, a **DETAILED SECTION** on cutting plane A-A of the area in the ellipse shown on the incomplete floor plan.
- Show the following features on the drawing:**
- The complete foundation and external wall detail
 - The complete foundation and partition wall detail
 - The window detail
 - The roof detail, including the fascia board, gutter, rainwater down-pipe and barge board
 - ALL features and fixtures in front of the section
 - ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

Label the following:

- The east elevation
- The room designations and floor finishes
- Ground level, finished floor level, rodding eye and damp-proof course (use the correct abbreviations and show it on ALL the relevant views)

NOTE:
 ALL drawings must comply with the **guidelines** and **graphical symbols** as contained in the **SANS 10143**. [92]





FLOOR FINISHES

- 1 BEDROOM: CARPET
- 2 BATHROOM: TILE
- 3 KITCHEN: TILE
- 4 LOUNGE: TILE
- 5 ENTRANCE: TILE

ELECTRICAL SYMBOLS			

QUESTION 4: CIVIL DRAWING

Given:

- The incomplete south elevation of the eastern unit and entrance of a **new cluster house**, showing the walls, the door and window openings, the roof and notes
- The incomplete floor plan showing the walls, positions of the doors, windows, fixtures and electrical layout
- Roof notes, a table of roof components and a schematic diagram of a roof truss
- Room designations and floor finishes
- The incomplete wall and foundation detail
- The rainwater down-pipe
- A table of electrical symbols
- A door and window schedule
- A table of fixtures
- The incomplete floor plan of the eastern unit and entrance of the **new cluster house**, drawn to scale 1 : 50, and the incomplete external wall foundation and the break line of the detailed section, drawn to scale 1 : 20, on page 6

Instructions:

Answer this question on page 6.

4.1 Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1 : 50, the following views of the given eastern unit and entrance of the **new cluster house**:

4.1.1 THE COMPLETE FLOOR PLAN

Add the following features to the drawing:

- ALL doors and windows
- ALL fixtures as indicated by the abbreviations
- ALL electrical fittings as indicated by the numbers
- ALL hatching detail

4.1.2 THE COMPLETE SOUTH ELEVATION

Show the following features on the drawing:

- The outside walls, windows and door detail
- The roof detail, including the fascia board, barge boards, gutter and rainwater down-pipe
- The finished floor level

4.2 Using the incomplete foundation and break line on page 6, draw, to scale 1 : 20, a **DETAILED SECTION** on cutting plane A-A of the area in the ellipse shown on the incomplete floor plan.

Show the following features on the drawing:

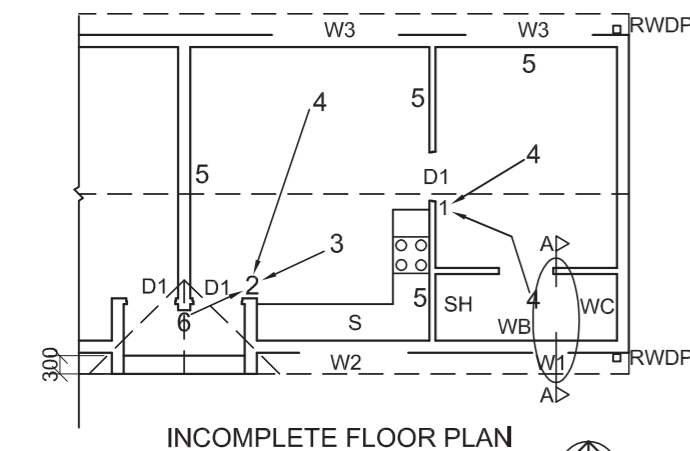
- The wall and foundation detail of the internal and external wall
- The window detail
- The roof detail, including the fascia board, gutter and rainwater down-pipe
- ALL features and fixtures to the right (east) of the ellipse
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

Label the following:

- The south elevation
- The room designations and floor finishes
- Ground level, finished floor level and damp-proof course (use the correct abbreviations and show it on ALL the relevant views)

NOTE:

ALL drawings must comply with the **guidelines** and **graphical symbols** contained in the **SANS 10143**.



FEATURES

- D1 DOOR
- W1 WINDOW
- W2 WINDOW
- W3 WINDOW

FIXTURES

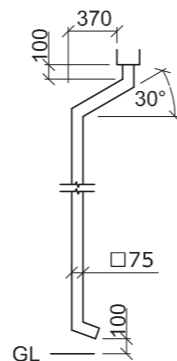
- WC TOILET
- WB WASH BASIN
- SH SHOWER
- S SINK

ELECTRICAL FITTINGS

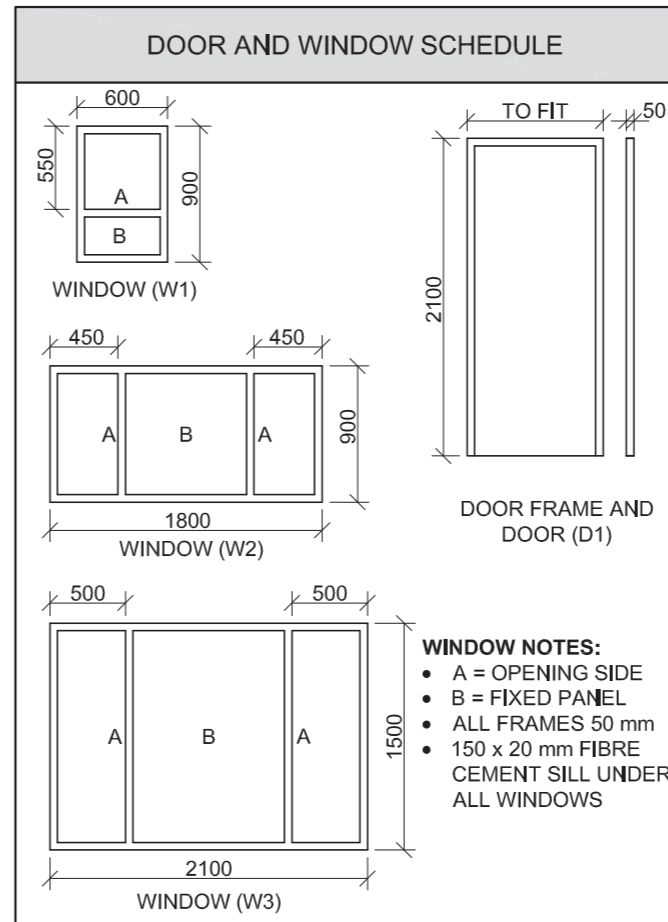
- 1 ONE-WAY SWITCH - DOUBLE-POLE
- 2 ONE-WAY SWITCH - THREE-POLE
- 3 FLUORESCENT LIGHT 2 x 40 W
- 4 CEILING LIGHT
- 5 SWITCHED SOCKET OUTLET
- 6 WALL-MOUNTED LIGHT

NOTE:

THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



RAINWATER DOWN-PIPE



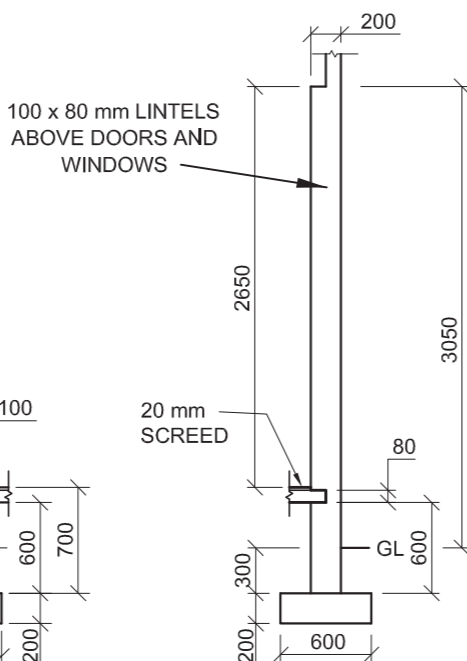
WINDOW NOTES:

- A = OPENING SIDE
- B = FIXED PANEL
- ALL FRAMES 50 mm
- 150 x 20 mm FIBRE CEMENT SILL UNDER ALL WINDOWS

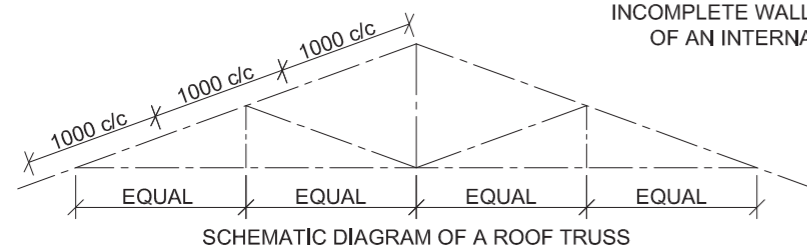
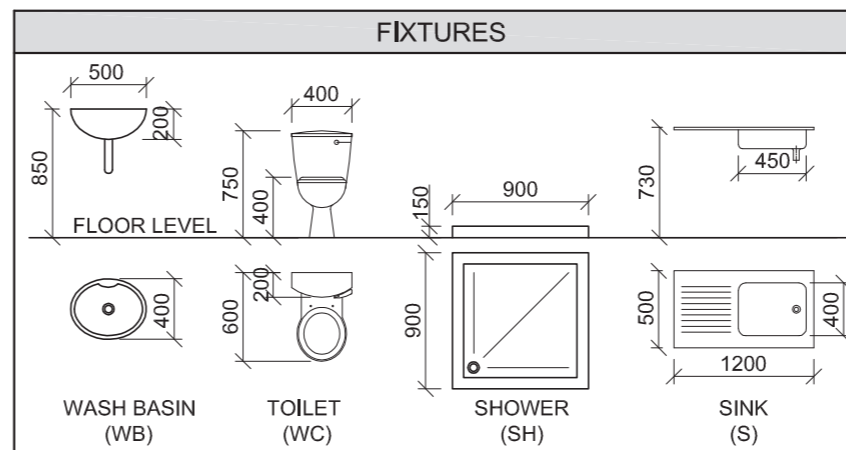
ROOF NOTES:

- ROOF PITCH 20°
- 115 x 38 mm ROOF TRUSSES ON 115 x 38 mm WALL PLATES
- ROOF OVERHANG 350 mm TO END OF ROOF TRUSSES
- ROOF COVER 15 mm FIBRE CEMENT SHEETING ON 75 x 50 mm PURLINS @ 1000 mm c/c
- 220 x 20 mm FASCIA BOARD ON ALL SIDES AND 300 x 75 mm BARGE BOARD ON GABLED ENDS
- 150 x 100 mm GUTTERS ON ALL SIDES
- 9 mm CEILING BOARD ON 38 x 38 mm BRANDING STRIPS @ 450 mm c/c

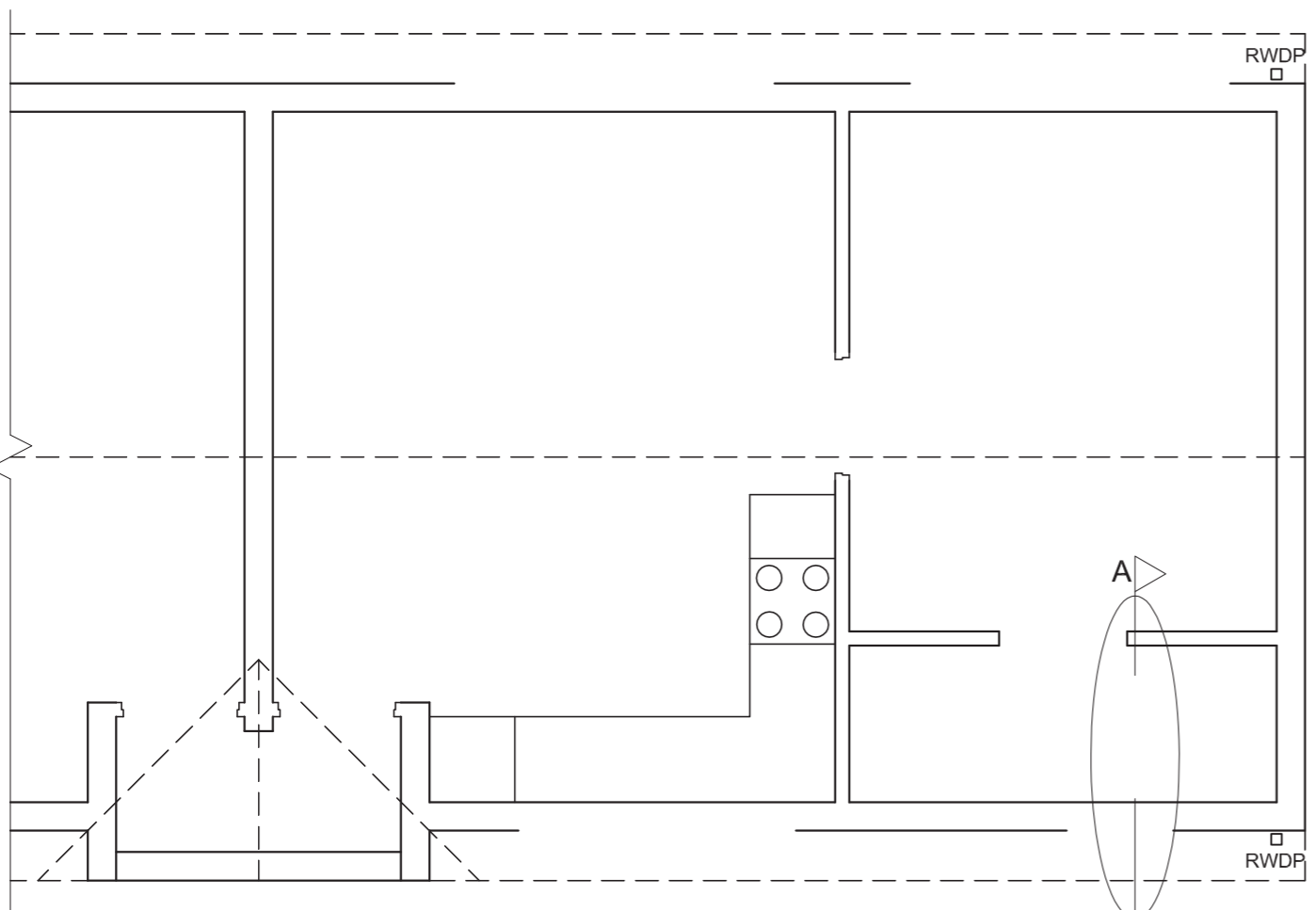
ROOF COMPONENTS	
	300 x 75 mm BARGE BOARD
	220 x 20 mm FASCIA BOARD



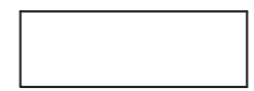
INCOMPLETE WALL AND FOUNDATION DETAIL OF AN INTERNAL AND EXTERNAL WALL



STAPLE



FLOOR PLAN
SCALE 1 : 50



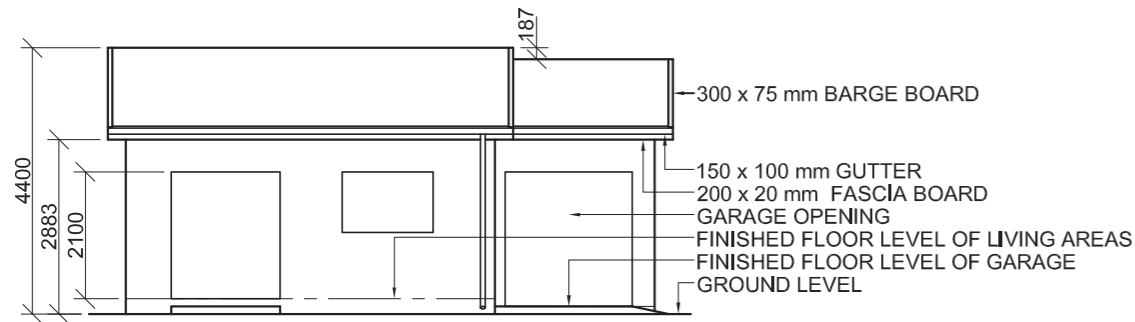
SECTION A-A
SCALE 1 : 20

1. MARK ALLOCATION FOR SECTION OF ROOF	
A (1)	
B (1)	
C (2)	
D (3)	
E (1)	
F (1)	
G (1)	
H (1)	
I (3)	
TOTAL	

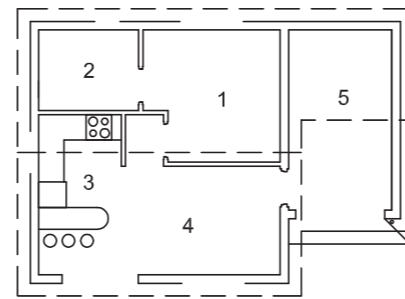
FOR OFFICIAL USE ONLY	
INCORRECT SCALE	
INCORRECT POSITIONING OF VIEWS	
ROTATED VIEWS	
PRINTED CAPITAL LETTERS	
TOTAL	

ASSESSMENT CRITERIA			
FLOOR PLAN			
1	DOORS + WINDOWS	11	
2	ELECTRICAL	8 1/2	
3	FIXTURES	7 1/2	
4	HATCHING	4	
5	LABELS	4	
SUBTOTAL		35	
SOUTH ELEVATION			
1	ROOF	6 1/2	
2	WALLS + RWDP + FFL + GUTTER	7 1/2	
3	DOORS + WINDOWS	11 1/2	
4	LABELS	1	
SUBTOTAL		26 1/2	
DETAILED SECTION			
1	ROOF	14	
2	FOUNDATIONS + WALLS + SLAB	13 1/2	
3	WINDOW + LINTELS	3 1/2	
4	FIXTURE	3	
5	LABELS	1 1/2	
SUBTOTAL		35 1/2	
TOTAL		97	
PENALTIES (-)			
GRAND TOTAL			
EXAMINATION NUMBER			
EXAMINATION NUMBER			6





INCOMPLETE SOUTH ELEVATION



ROOM DESIGNATIONS

ROOF COMPONENTS	
	300 x 75 mm BARGE BOARD
	220 x 20 mm FASCIA BOARD

ELECTRICAL SYMBOLS	

FLOOR FINISHES	
1 BEDROOM:	CARPET
2 BATHROOM:	TILE
3 KITCHEN:	TILE
4 LOUNGE/DINING ROOM:	WOOD
5 GARAGE:	GRANO

QUESTION 4: CIVIL DRAWING

Given:

- The incomplete south elevation of a **new house**, showing the walls, the door, window and garage openings, the roof and notes
- The incomplete floor plan showing the walls, positions of the doors, windows, fixtures and the electrical layout
- A schematic diagram of a roof truss and roof notes
- The incomplete foundation and external wall details of the living areas and the garage
- Room designations and floor finishes
- The rainwater down-pipe
- A table of roof components
- A table of electrical symbols
- A door and window schedule
- A table of fixtures
- The incomplete floor plan of the **new house**, drawn to scale 1 : 50, and the incomplete foundation and the break line of the detailed section, drawn to scale 1 : 20, on page 6

Instructions:

Answer this question on page 6.

4.1 Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1 : 50, the following views of the **new house**:

4.1.1 THE COMPLETE FLOOR PLAN

Add the following features to the drawing:

- ALL doors and windows
- ALL fixtures as indicated by the abbreviations
- ALL electrical fittings as indicated by the numbers
- ALL hatching detail

4.1.2 THE COMPLETE SOUTH ELEVATION

Show the following features on the drawing:

- The outside walls, door and window details and the garage opening
- The roof detail, including the fascia boards, barge boards, gutters and rainwater down-pipes
- The finished floor level

4.2 Using the incomplete foundation and break line on page 6, draw, to **scale 1 : 20**, a **DETAILED SECTION** on cutting plane A-A of the area in the ellipse shown on the incomplete floor plan.

Show the following features on the drawing:

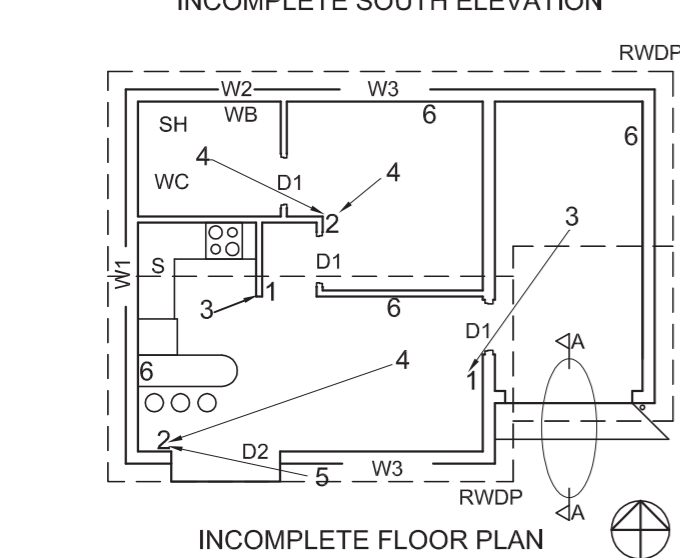
- The foundation, wall and garage opening detail
- The roof detail, including the fascia board and gutter
- ALL the external features of the **new house** to the left (west) of the ellipse
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

Label the following:

- The south elevation
- The room designations and floor finishes
- Ground level (use the correct abbreviation and show it on ALL the relevant views)

NOTE:

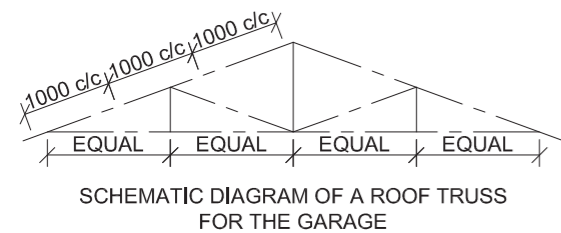
ALL drawings must comply with the **guidelines** and **graphical symbols** contained in the **SANS 10143**. [93]



INCOMPLETE FLOOR PLAN

- FEATURES**
 D1 DOOR
 D2 SLIDING DOOR
 W1 WINDOW
 W2 WINDOW
 W3 WINDOW
- FIXTURES**
 WC TOILET
 WB WASH BASIN
 SH SHOWER
 S SINK
- ELECTRICAL FITTINGS**
 1. ONE-WAY SWITCH - SINGLE-POLE
 2. ONE-WAY SWITCH - DOUBLE-POLE
 3. FLUORESCENT LIGHT 2 x 40 W
 4. CEILING LIGHT
 5. WALL-MOUNTED LIGHT
 6. SWITCHED SOCKET OUTLET

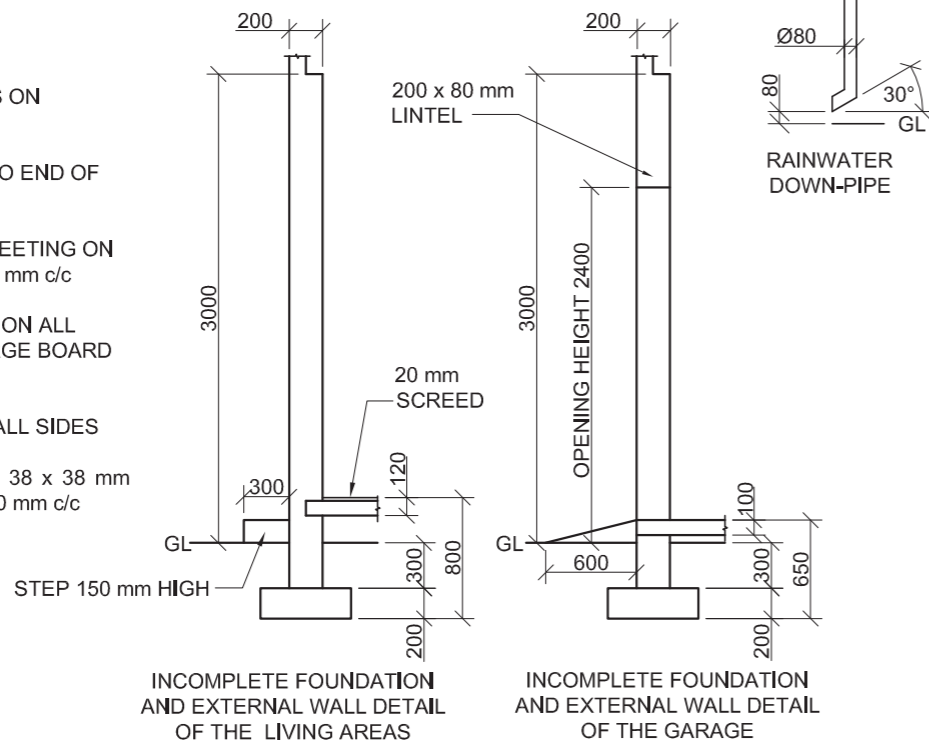
NOTE:
 THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



SCHEMATIC DIAGRAM OF A ROOF TRUSS FOR THE GARAGE

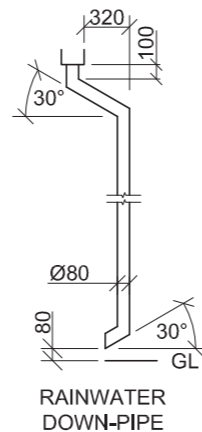
ROOF NOTES:

- ROOF PITCH 20°
- 115 x 38 mm ROOF TRUSSES ON 115 x 38 mm WALL PLATES
- ROOF OVERHANG 300 mm TO END OF ROOF TRUSSES
- ROOF COVER 40 mm IBR SHEETING ON 75 x 50 mm PURLINS @ 1000 mm c/c
- 220 x 20 mm FASCIA BOARD ON ALL SIDES AND 300 x 75 mm BARGE BOARD ON GABLED ENDS
- 100 x 150 mm GUTTERS ON ALL SIDES
- 9 mm CEILING BOARDS ON 38 x 38 mm BRANDING STRIPS @ 300 mm c/c



INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL OF THE LIVING AREAS

INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL OF THE GARAGE



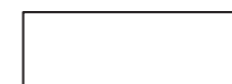
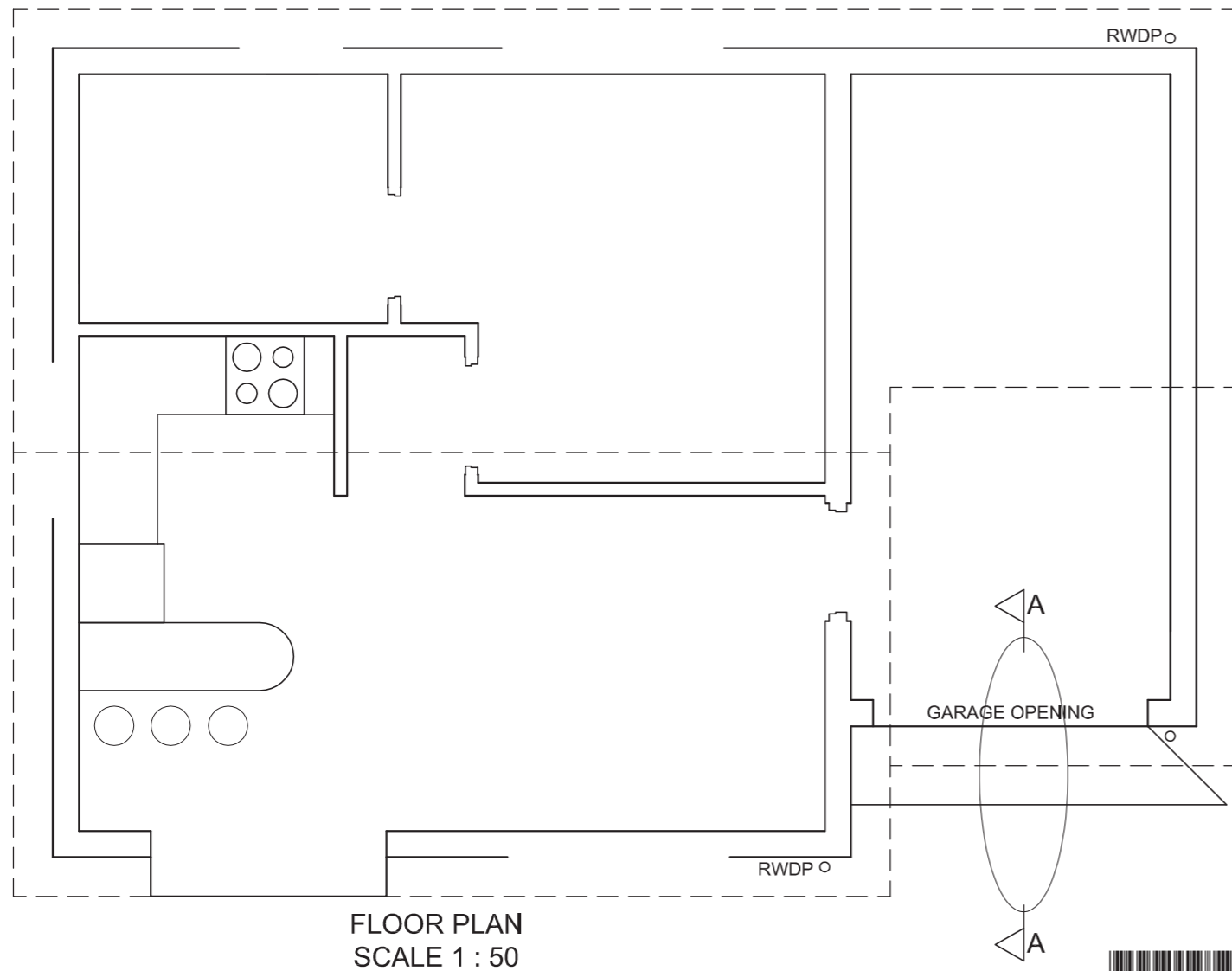
RAINWATER DOWN-PIPE

DOOR AND WINDOW SCHEDULE		

- WINDOW NOTES:**
- A = OPENING SIDE
 - B = FIXED PANEL
 - ALL FRAMES 40 mm
 - 150 x 20 mm FIBRE CEMENT SILL UNDER ALL WINDOWS

FIXTURES			



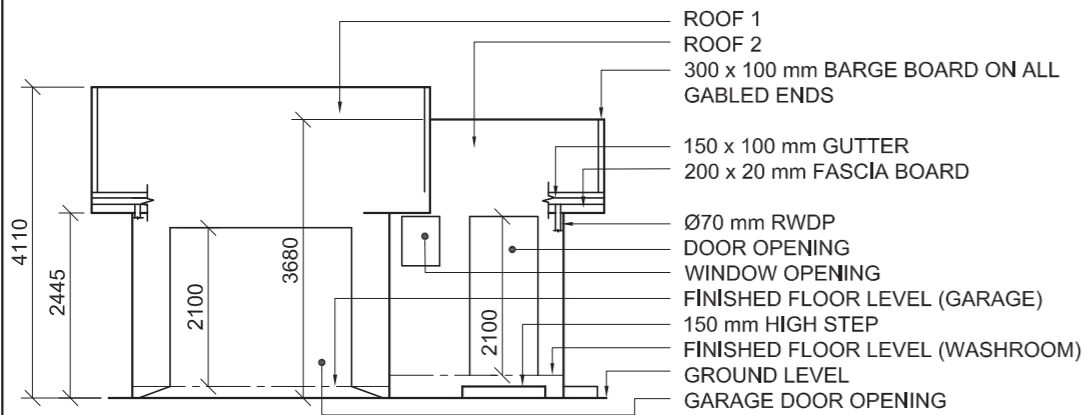


SECTION A-A
SCALE 1 : 20

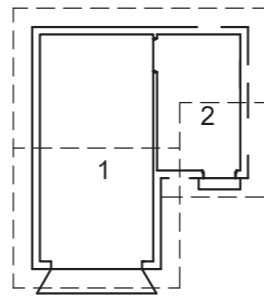


1. MARK ALLOCATION FOR SECTION OF ROOF		FOR OFFICIAL USE ONLY	
A (1)		INCORRECT SCALE	
B (1)		INCORRECT POSITIONING OF VIEWS	
C (1)		NON-ALIGNMENT OF VIEWS	
D (2)			
E (1)			
F (1)			
G (1)			
H (1)			
I (2)			
TOTAL		TOTAL	

ASSESSMENT CRITERIA				
FLOOR PLAN				
1	DOORS + WINDOWS	14		
2	ELECTRICAL	11		
3	FIXTURES	8		
4	HATCHING	4		
5	LABELS	5		
SUBTOTAL		42		
SOUTH ELEVATION				
1	ROOF	5 1/2		
2	WALLS + RWDP + FFL	7		
3	DOOR + WINDOW	10		
4	LABELS	1		
SUBTOTAL		23 1/2		
DETAILED SECTION				
1	ROOF	11		
2	FOUNDATION + WALLS + SLAB	7		
3	GUTTER + RWDP	4		
4	HATCHING	5		
5	LABELS	1/2		
SUBTOTAL		27 1/2		
TOTAL		93		
PENALTIES (-)				
GRAND TOTAL				
EXAMINATION NUMBER				
EXAMINATION NUMBER				6



INCOMPLETE SOUTH-EAST ELEVATION

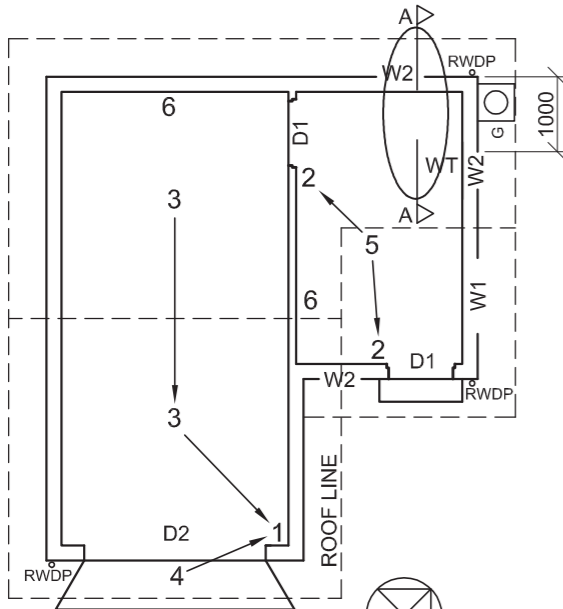


ROOM DESIGNATIONS

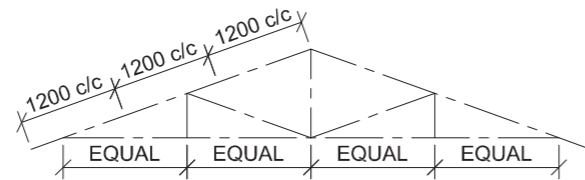
FLOOR FINISHES
 1 GARAGE: GRANO
 2 WASHROOM: TILE

- FEATURES**
 D1 DOOR
 D2 GARAGE DOOR
 W1 WINDOW
 W2 WINDOW
- FIXTURE**
 WT WASHTUB
- ELECTRICAL FITTINGS**
 1. ONE-WAY SWITCH - DOUBLE-POLE
 2. TWO-WAY SWITCH
 3. FLUORESCENT LIGHT 2 x 40 W
 4. WALL-MOUNTED LIGHT
 5. CEILING LIGHT
 6. SWITCHED SOCKET OUTLET

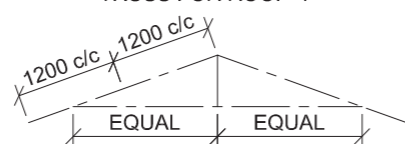
NOTE:
 THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



INCOMPLETE FLOOR PLAN



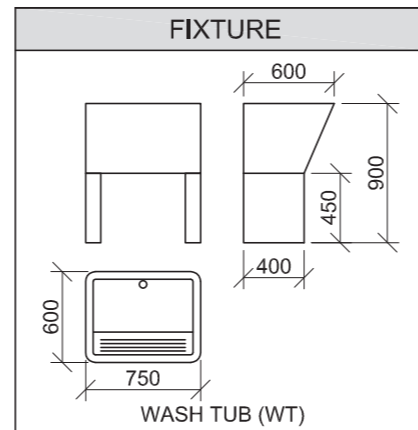
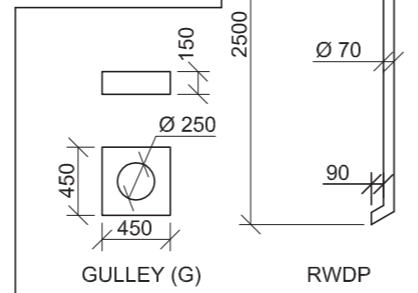
SCHEMATIC DIAGRAM OF A TRUSS FOR ROOF '1'



SCHEMATIC DIAGRAM OF A TRUSS FOR ROOF '2'

ELECTRICAL SYMBOLS	

RAINWATER ITEMS	



DOOR AND WINDOW SCHEDULE	
	DOOR FRAME
	DOOR (D1)
	WINDOW FRAME (W1)
	WINDOW FRAME (W2)
	ROLL-UP GARAGE DOOR (D2)

NOTE:
 150 x 20 mm FIBRE CEMENT SILL UNDER ALL WINDOWS

ROOF COMPONENTS	
	ROOF CAP
	WALL PLATE
	75 x 50 mm PURLIN
	150 x 100 mm GUTTER
	300 x 100 mm FIBRE CEMENT BARGE BOARD
	200 x 20 mm FASCIA BOARD

QUESTION 4: CIVIL DRAWING

Given:

- The incomplete south-east elevation of a **new garage and washroom** showing the walls, the garage door opening, the door and window openings, the roof and notes
- The incomplete floor plan showing the walls, position of the doors, windows, fixture and the electrical layout
- The incomplete foundation and external wall detail of the garage and of the washroom
- Room designations and floor finishes
- Schematic diagrams of the TWO types of roof trusses and roof notes
- A table of electrical symbols
- A table of rainwater items
- A table of the fixture
- A door and window schedule
- A table of roof components
- The incomplete floor plan of the **new garage and washroom**, drawn to scale 1 : 50, on page 6

Instructions:

Answer this question on page 6.

4.1 Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1 : 50, the following views of the **new garage and washroom**:

4.1.1 THE COMPLETE FLOOR PLAN

Add the following features to the drawing:

- ALL doors and windows
- The fixture as indicated by the abbreviation
- ALL electrical fittings as indicated by numbers
- ALL hatching detail

4.1.2 THE COMPLETE SOUTH-EAST ELEVATION

Show the following features on the drawing:

- The outside walls, door and window detail
- The roof detail, including the fascia boards, barge boards, gutters, rainwater down-pipe and gully
- The finished floor level

4.2 In the space provided, draw, to **scale 1 : 20**, a **DETAILED SECTION** on cutting plane A-A of the area in the ellipse shown on the incomplete floor plan.

Show the following features on the drawing:

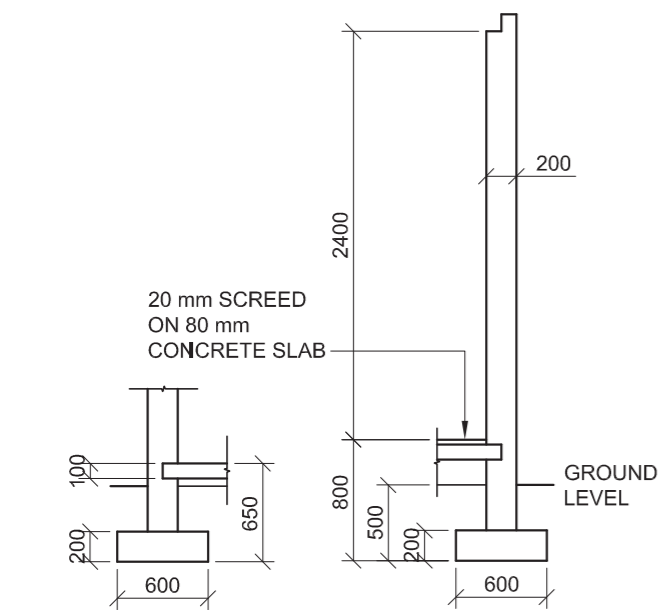
- The complete foundation and external wall detail
- The window detail, with a DOUBLE lintel
- The roof detail, including the fascia board and gutter
- ALL features and fixtures to the right of the section
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

Label the following:

- The south-east elevation
- The room designations and floor finishes
- Using the correct abbreviations, label the following features in the correct view: ground level, finished floor level and damp-proof course.

NOTE:

- Planning is essential.
- ALL drawings must comply with the **guidelines** and **graphical symbols** as contained in the **SANS 10143**.



INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL OF THE GARAGE

INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL OF THE WASHROOM

ROOF NOTES:
 ROOF PITCH 20°

200 x 20 mm FASCIA BOARD ON ALL SIDES AND 300 x 20 mm BARGE BOARD ON THE GABLED ENDS

ROOF COVER 15 mm FIBRE CEMENT SHEETING ON 75 x 50 mm PURLINS SPACED ACCORDING TO SCHEMATIC DIAGRAMS

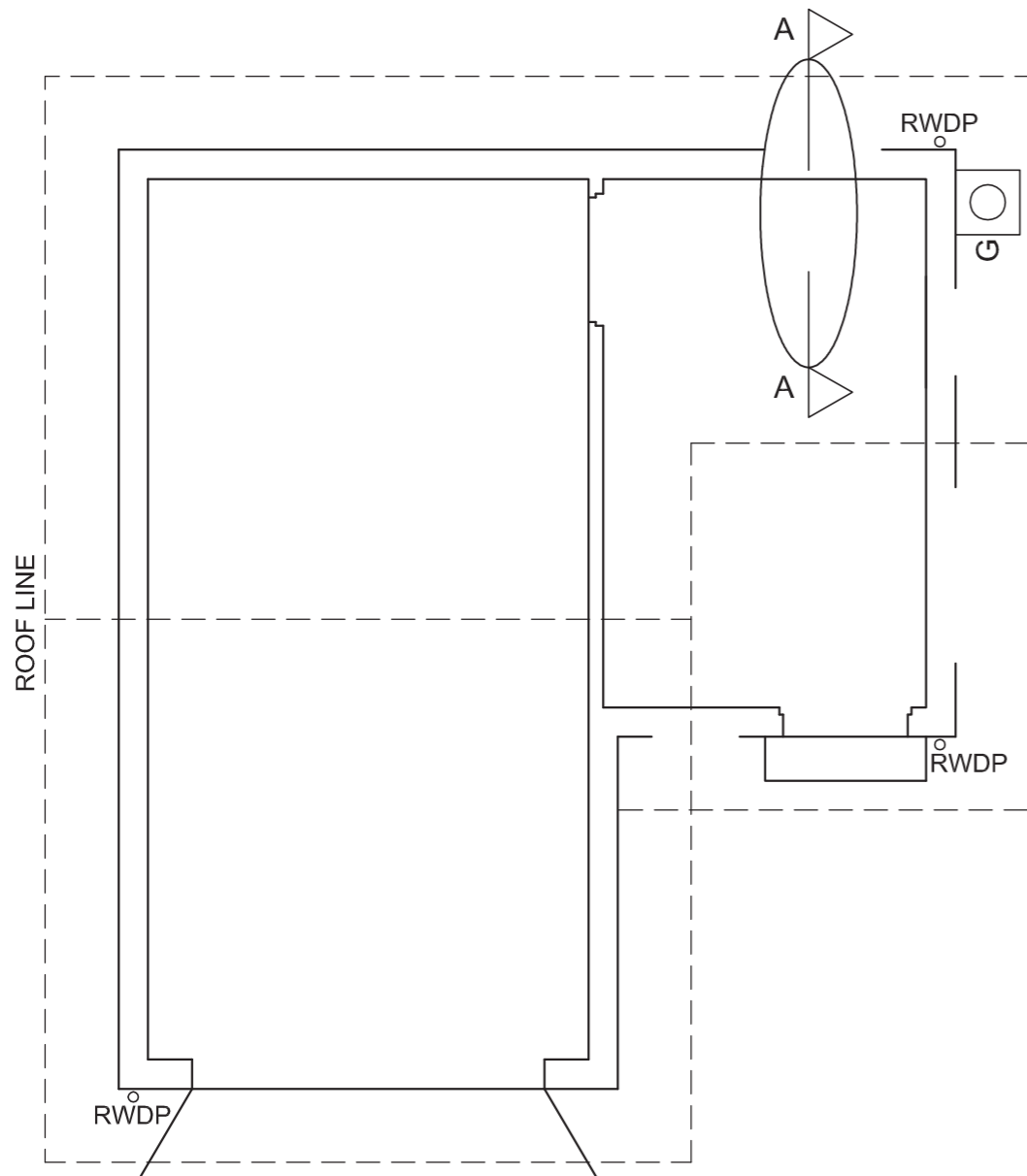
114 x 38 mm ROOF TRUSS ON 114 x 38 mm WALL PLATES

9 mm CEILING BOARD ON 38 x 38 mm BRANDING STRIPS @ 400 mm c/c

100 x 150 mm GUTTER ON ALL SIDES



STAPLE



FLOOR PLAN
SCALE 1 : 50

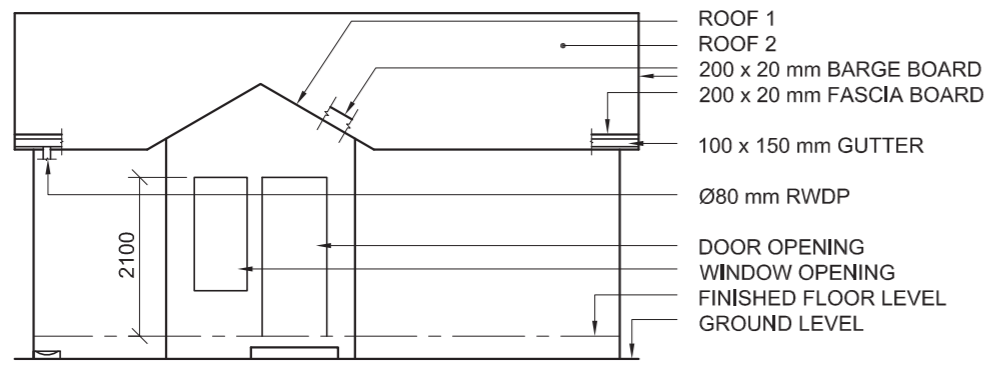
DETAILED SECTION ON A-A
SCALE 1 : 20

FOR OFFICIAL USE ONLY		
INCORRECT SCALE(S)		
NON-ALIGNMENT OF VIEWS		
VIEW(S) ROTATED		
SECTION VIEWED INCORRECTLY		
INCORRECT LETTERING		
TOTAL PENALTIES (-)		

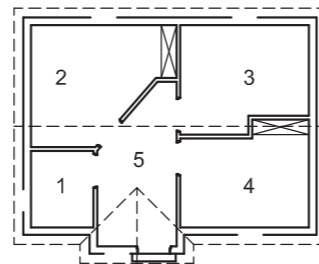
MARK ALLOCATION FOR SECTION OF ROOF (4.2 No 1)												
A	B	C	D	E	F	G	H	I	J	K	L	

ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATE
1	DOORS + WINDOWS	12			
2	ELECTRICAL	8			
3	FIXTURE	2			
4	HATCHING	4			
5	LABELS	2			
SUBTOTAL		28			
SOUTH-EAST ELEVATION					
1	ROOF + RWDP	9			
2	WALLS + FFL + GULLEY + STEP + RAMP	6½			
3	DOOR + WINDOW	7½			
4	LABELS	2			
SUBTOTAL		25			
DETAILED SECTION					
1	ROOF DETAIL + RWDP	16			
2	FOUNDATION + WALL + SLAB + LINE BREAK	9			
3	WINDOW + WT	8			
4	HATCHING	4			
5	LABELS	1			
SUBTOTAL		38			
TOTAL		91			
TOTAL PENALTIES (-)					
GRAND TOTAL					
EXAMINATION NUMBER					
				6	





INCOMPLETE NORTH ELEVATION



ROOM DESIGNATIONS

FLOOR FINISHES

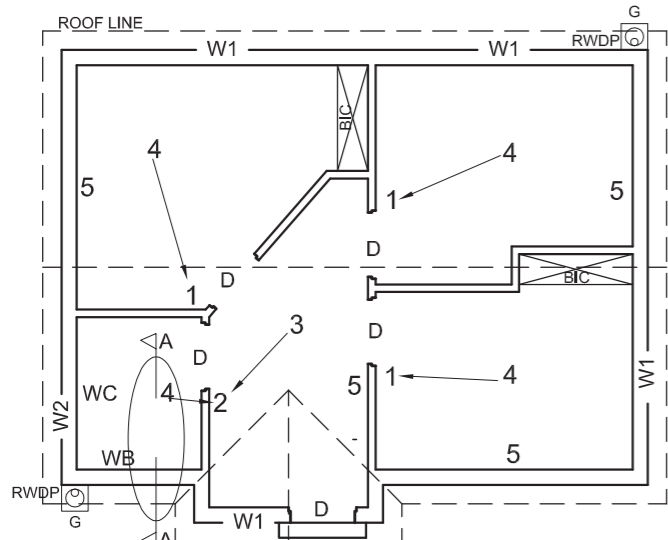
- 1 TOILET: TILE
- 2 ROOM 1: CARPET
- 3 ROOM 2: CARPET
- 4 ROOM 3: CARPET
- 5 RECEPTION: TILE

WINDOW AND DOOR SCHEDULE

WINDOW NOTES:

- A = OPENING SIDE
- B = HINGED SIDE
- C = FIXED PANEL
- 150 x 25 mm FIBRE CEMENT SILL UNDER ALL WINDOWS

GULLEY



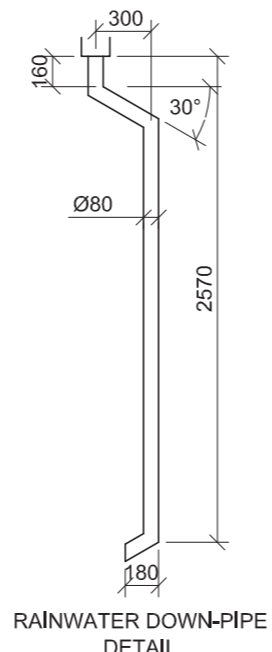
INCOMPLETE FLOOR PLAN

- FEATURES**
- D DOOR
 - W1 WINDOW
 - W2 WINDOW

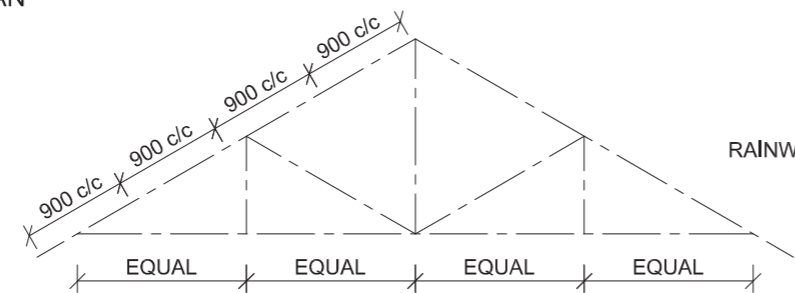
- FIXTURES**
- WC TOILET
 - WB WASH BASIN

- ELECTRICAL FITTINGS**
- 1. ONE-WAY SWITCH - SINGLE-POLE
 - 2. ONE-WAY SWITCH - DOUBLE-POLE
 - 3. FLUORESCENT LIGHT 2 x 40 W
 - 4. CEILING LIGHT
 - 5. SWITCHED SOCKET OUTLET

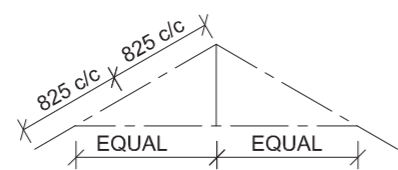
NOTE:
THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



RAINWATER DOWN-PIPE DETAIL



SCHEMATIC DIAGRAM OF A ROOF TRUSS FOR ROOF '2'



SCHEMATIC DIAGRAM OF A ROOF TRUSS FOR ROOF '1'

ROOF NOTES:
ROOF PITCH 30°

200 x 20 mm FASCIA BOARD ON ALL SIDES AND 200 x 20 mm BARGE BOARD ON THE GABLED ENDS

ROOF COVER 15 mm FIBRE CEMENT SHEETING ON 75 x 50 mm PURLINS SPACED ACCORDING TO SCHEMATIC DIAGRAMS

114 x 38 mm ROOF TRUSSES ON 114 x 38 mm WALL PLATES

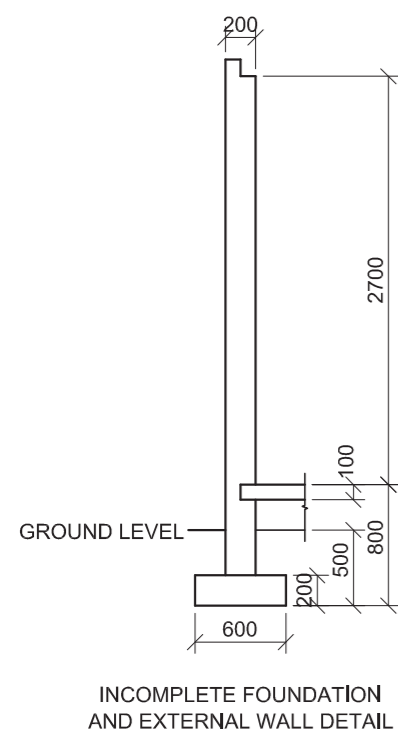
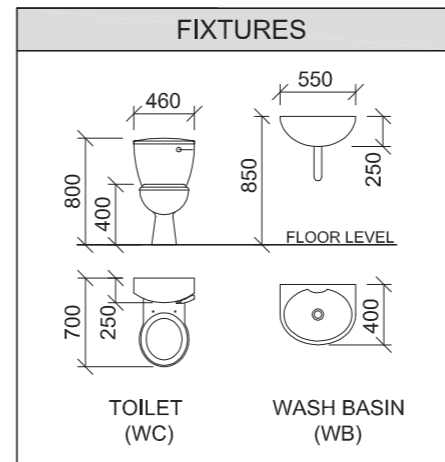
9 mm CEILING BOARD ON 38 x 38 mm BRANDERING STRIPS @ 600 mm c/c

100 x 150 mm GUTTER ON ALL SIDES

ROOF COMPONENTS

	38 x 38 mm BRANDERING
	114 x 38 mm WALL PLATE
	75 x 50 mm PURLINS

ELECTRICAL SYMBOLS



INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL

QUESTION 4: CIVIL DRAWING

Given:

- The incomplete north elevation of **new consulting rooms**, showing the walls, the door and window openings, the roof and notes
- The incomplete floor plan showing the walls, positions of the doors, windows, fixtures and electrical layout
- The incomplete foundation and external wall detail
- Room designations and floor finishes
- The rainwater down-pipe detail
- Schematic diagrams of the TWO types of roof trusses and roof notes
- A window and door schedule
- The gulley detail
- A table of roof components
- A table of electrical symbols
- A table of fixtures
- The incomplete floor plan of the **new consulting rooms**, drawn to scale 1 : 50, on page 6

Instructions:

Answer this question on page 6.

4.1 Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1 : 50, the following views of the **new consulting rooms**:

4.1.1 THE COMPLETE FLOOR PLAN

Add the following features to the drawing:

- ALL doors and windows
- ALL fixtures as indicated by abbreviations
- ALL electrical fittings as indicated by numbers
- ALL hatching detail

4.1.2 THE COMPLETE NORTH ELEVATION

Show the following features on the drawing:

- The outside walls, door and window detail
- The roof detail, including the fascia boards, barge boards, gutters, rainwater down-pipe and gulley
- The finished floor level

4.2 In the space provided, draw, to **scale 1 : 20**, a **DETAILED SECTION** on cutting plane A-A of the area in the ellipse shown on the incomplete floor plan.

Show the following features on the drawing:

- The complete foundation and external wall detail
- The roof detail, including the fascia board and gutter
- ALL features and fixtures to the left of the section
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

Label the following:

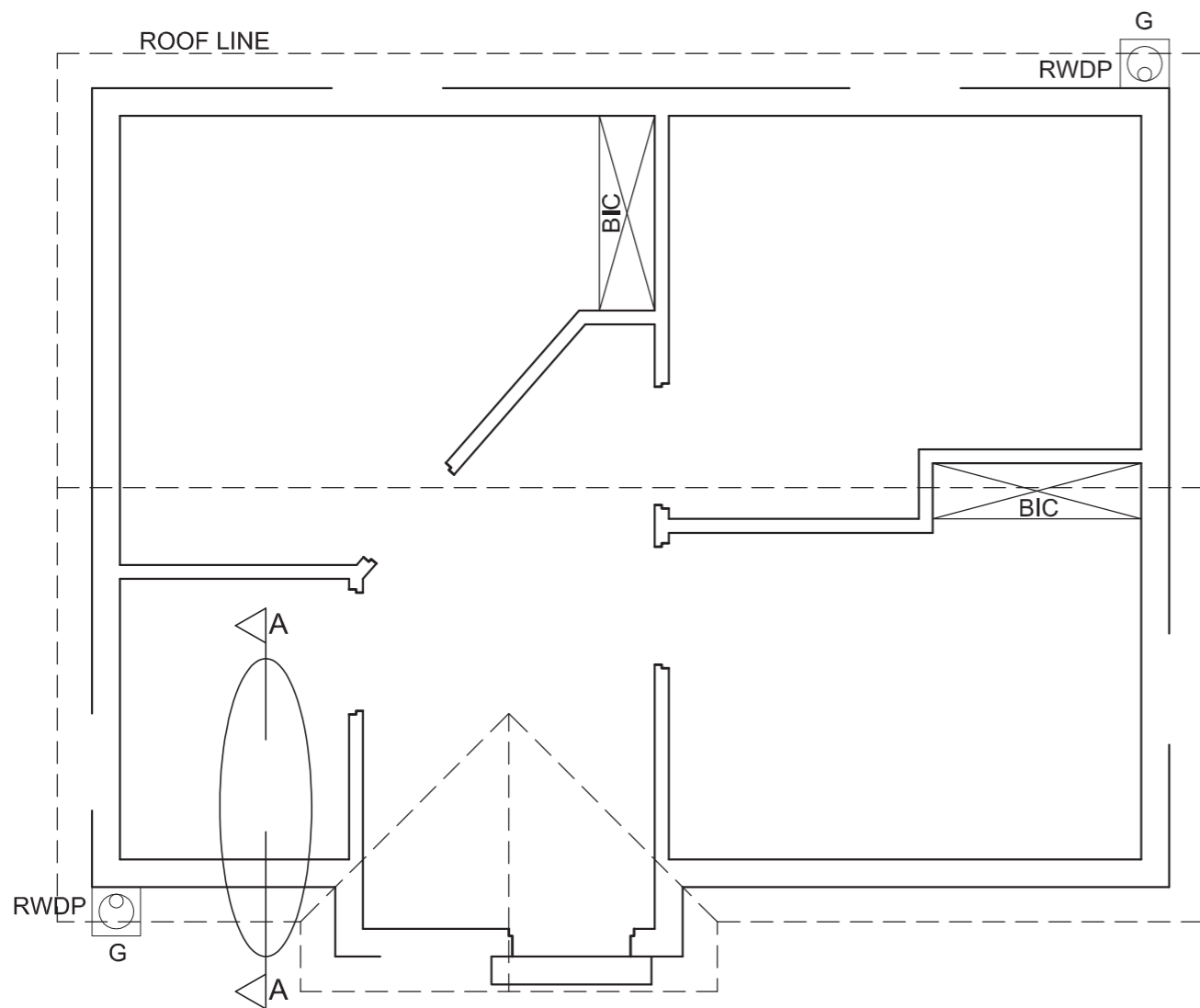
- The north elevation
- The room designations and floor finishes
- Using the correct abbreviations, label the following features in the correct view: ground level, damp-proof course and the finished floor level

NOTE:

- Planning is essential.
- ALL drawings must comply with the **guidelines** and **graphical symbols** as contained in the **SANS 10143**. [96]



STAPLE



FLOOR PLAN
SCALE 1 : 50

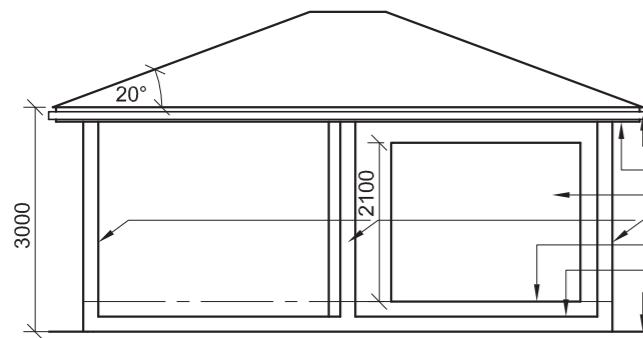
DETAILED SECTION ON A-A
SCALE 1 : 20

FOR OFFICIAL USE ONLY		
INCORRECT SCALE(S)		
NON-ALIGNMENT OF VIEWS		
FEATURES DRAWN IN FREEHAND		
TOTAL PENALTIES (-)		

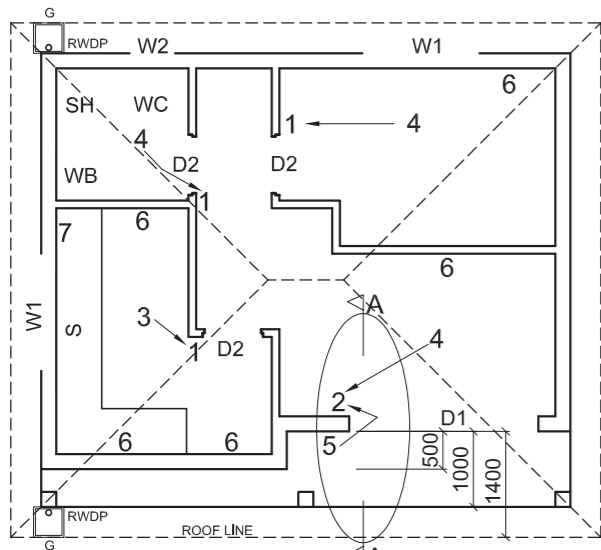
MARK ALLOCATION FOR SECTION OF ROOF (4.2 No. 1)										
A	B	C	D	E	F	G	H	I	J	

ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATE
1	DOORS + WINDOWS	15			
2	ELECTRICAL	9			
3	FIXTURES	4			
4	HATCHING	4			
5	LABELS	5			
SUBTOTAL		37			
NORTH ELEVATION					
1	ROOF	8½			
2	WALLS + RWDP + FFL + GULLEY	6½			
3	DOOR + WINDOW	6			
4	LABELS	1½			
SUBTOTAL		22½			
DETAILED SECTION					
1	ROOF DETAIL	11			
2	FOUNDATION + WALL + RWDP + GULLEY + LINE BREAK	11			
3	WINDOW + WC + WB	9½			
4	HATCHING	4			
5	LABELS	1			
SUBTOTAL		36½			
TOTAL		96			
TOTAL PENALTIES (-)					
GRAND TOTAL					
EXAMINATION NUMBER					
				6	





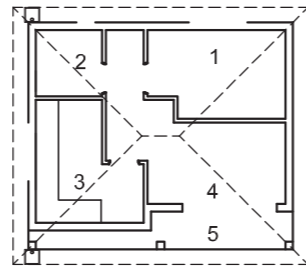
INCOMPLETE SOUTH-WEST ELEVATION



INCOMPLETE FLOOR PLAN

FLOOR FINISHES

- 1 BEDROOM: CARPET
- 2 BATHROOM: TILE
- 3 KITCHEN: TILE
- 4 LOUNGE: TILE
- 5 VERANDAH: GRANO



ROOM DESIGNATIONS

FEATURES

- D1 SLIDING DOOR
- D2 INTERNAL DOOR
- W1 WINDOW
- W2 WINDOW

FIXTURES

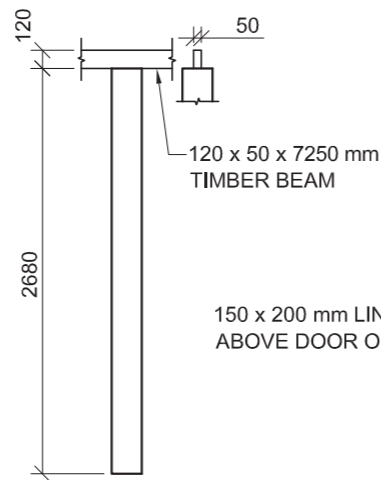
- WC TOILET
- WB WASH BASIN
- SH SHOWER
- S SINK

ELECTRICAL FITTINGS

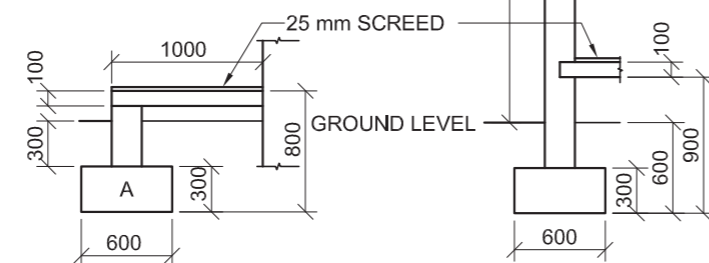
- 1. LIGHT SWITCH - SINGLE-POLE
- 2. LIGHT SWITCH - DOUBLE-POLE
- 3. FLUORESCENT LIGHT 2 x 40 W
- 4. CEILING LIGHT
- 5. WALL MOUNTED LIGHT
- 6. SWITCHED SOCKET OUTLET
- 7. DISTRIBUTION BOARD

NOTE:

THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



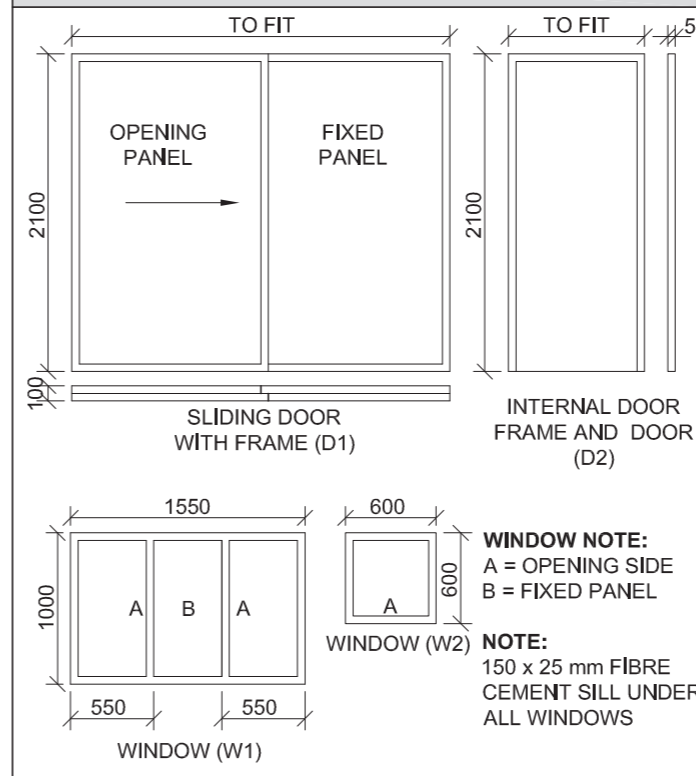
200 x 200 mm VERANDAH PILLAR AND BEAM DETAIL



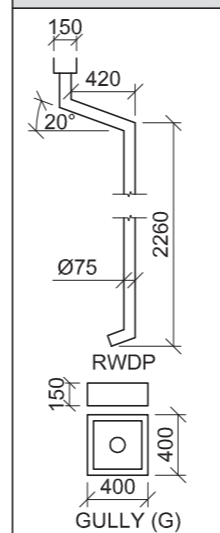
INCOMPLETE FOUNDATION 'A' AND VERANDAH DETAIL

INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL

DOOR AND WINDOW SCHEDULE



RAINWATER ITEMS

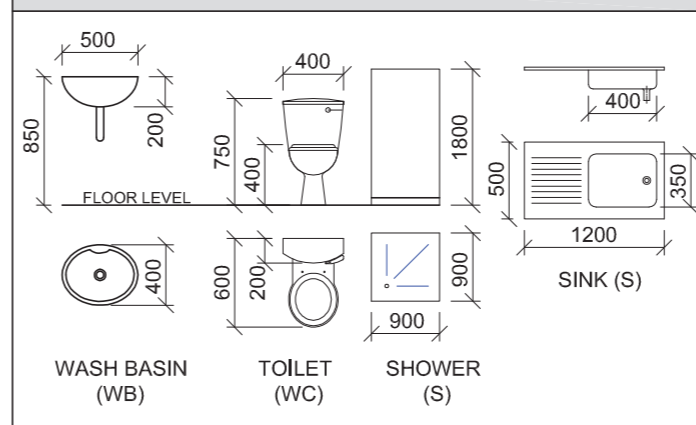


ROOF COMPONENTS

	200 x 20 mm FASCIA BOARD
	120 x 50 x 7250 mm TIMBER BEAM
	75 x 50 mm PURLINS

ELECTRICAL SYMBOLS

FIXTURES



WASH BASIN (WB)

TOILET (WC)

SHOWER (S)

SINK (S)

QUESTION 4: CIVIL DRAWING

Given:

- The incomplete south-west elevation of a **new cottage**, showing the walls, the verandah pillars, the sliding door opening, the roof and notes
- The incomplete floor plan showing the walls, position of the verandah pillars, doors, windows, fixtures and electrical layout
- Roof notes with a schematic diagram of a roof truss
- Room designations and floor finish
- Verandah pillar and beam detail
- The incomplete foundation 'A' and verandah detail
- The incomplete foundation and external wall detail
- A door and window schedule
- A table of rainwater items
- A table of roof components
- A table of electrical symbols
- A table of fixtures
- The incomplete foundation 'A' and floor plan of the **new cottage**, drawn to scale 1 : 50, on page 6

Instructions:

Answer this question on page 6.

4.1 Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1 : 50, the following views of the **new cottage**:

4.1.1 **THE COMPLETE FLOOR PLAN**

Add the following features to the drawing:

- ALL doors and windows
- ALL fixtures as indicated by abbreviations
- ALL electrical fittings as indicated by numbers
- ALL hatching detail

4.1.2 **THE SOUTH-WEST ELEVATION**

Show the following features on the drawing:

- The outside walls, verandah and sliding door detail
- The roof detail, including the fascia board, gutter, rainwater down pipe and gully
- The finished floor level

4.2 Using the given incomplete foundation 'A', draw, to **scale 1 : 20**, a **DETAILED SECTION** on cutting plane A-A of the area in the ellipse shown on the incomplete floor plan.

Show the following features on the drawing:

- The complete foundation 'A' and verandah detail
- The complete foundation, external wall and sliding door detail
- The roof detail, including the fascia board and gutter
- ALL features of the verandah to the left of cutting plane A-A, including the rainwater down pipe and gully
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

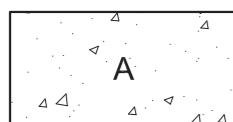
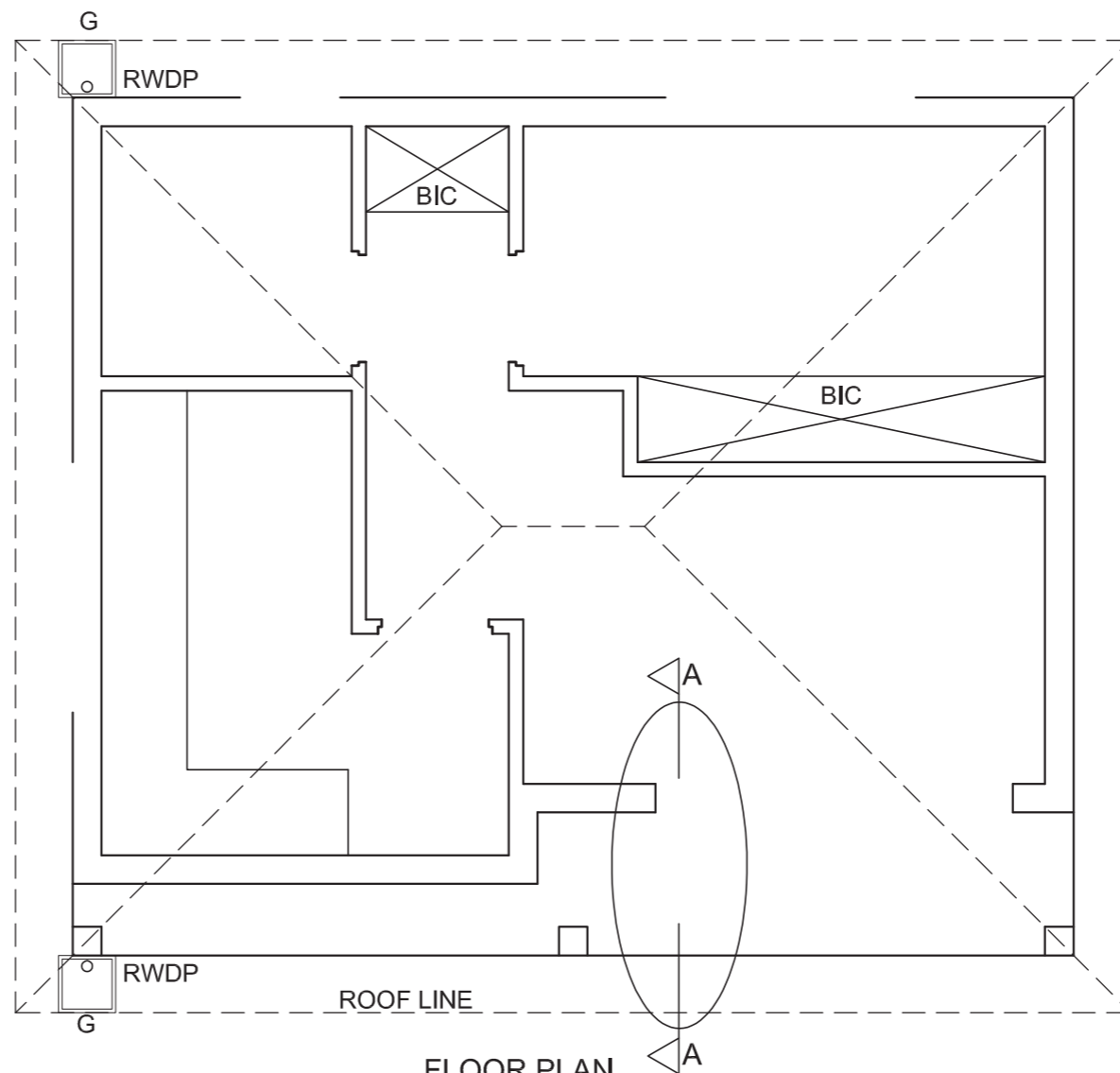
Label the following:

- The south-west elevation
- The room designations and floor finishes
- Using the correct abbreviations, label the following features in the correct view: ground level and finished floor level.

NOTE:

ALL drawings must comply with the **guidelines** and **graphical symbols** contained in the **SANS 10143**. [94]





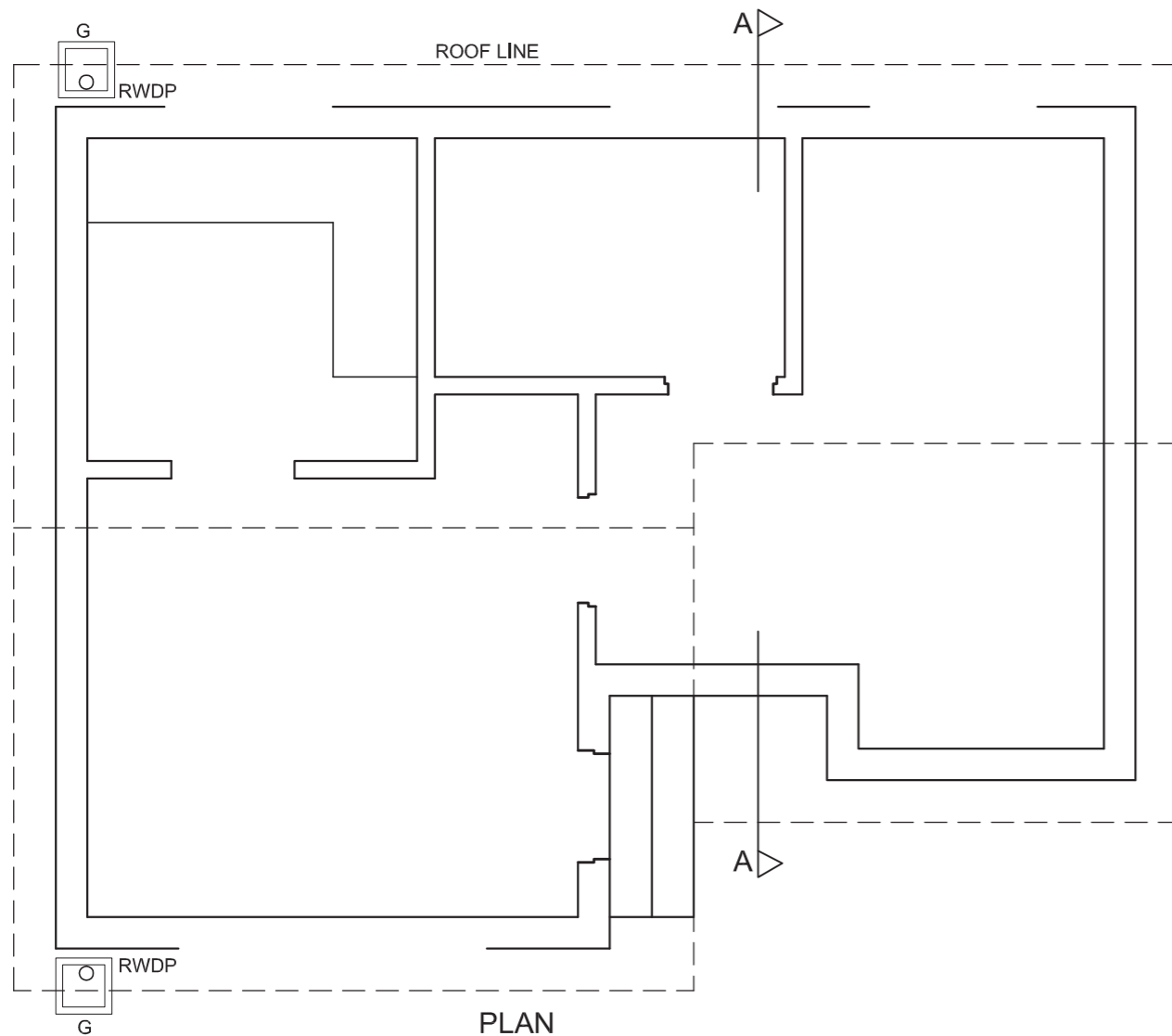
DETAILED SECTION
SCALE 1 : 20

FLOOR PLAN
SCALE 1 : 50

PENALTIES		
INCORRECT OVERALL SCALE		
INCORRECT POSITIONING OF VIEWS		
NON-ALIGNMENT OF VIEWS		
TOTAL PENALTIES (-)		

ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATE
1	DOORS + WINDOWS	12			
2	ELECTRICAL	10			
3	FIXTURES	4			
4	HATCHING	4			
5	LABELS	5			
SUBTOTAL		35			
SOUTH-WEST ELEVATION					
1	ROOF	6½			
2	WALLS + RWDP + FFL + GULLY	9			
3	DOOR	3			
4	LABELS	1½			
SUBTOTAL		20			
DETAILED SECTION					
1	ROOF DETAIL	12			
2	FOUNDATIONS + WALLS + SLAB	11½			
3	DOOR + GULLY RWDP + GUTTER	9			
4	HATCHING	6½			
SUBTOTAL		39			
TOTAL		94			
TOTAL PENALTIES (-)					
FINAL TOTAL					
EXAMINATION NUMBER					
EXAMINATION NUMBER					
EXAMINATION NUMBER				6	



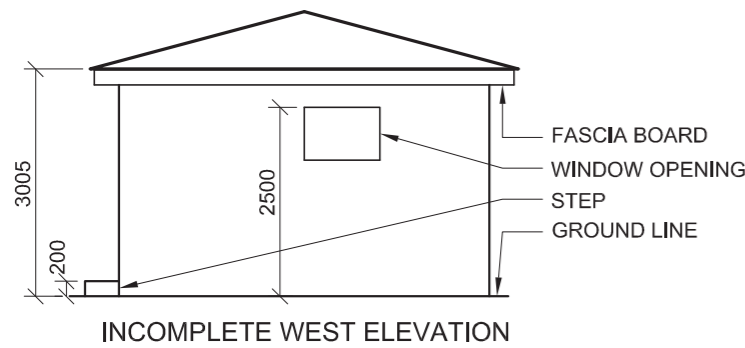


PLAN
SCALE 1 : 50

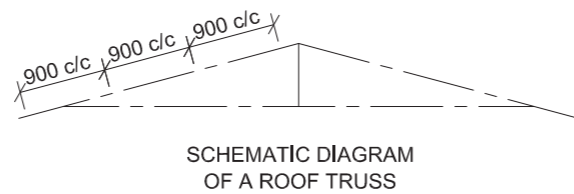
PENALTIES		
INCORRECT OVERALL SCALE		
INCORRECT POSITIONING OF VIEWS		
NON-ALIGNMENT OF VIEWS		
TOTAL		

ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATE
1	LABELS	4			
2	ELECTRICAL	9			
3	DOORS + WINDOWS	11			
4	FIXTURES	4			
5	HATCHING	4			
SUBTOTAL		32			
NORTH ELEVATION					
1	WALLS + FFL	5			
2	ROOF + FACIA BOARD + GUTTER + RWDP	7			
3	WINDOW	5½			
4	LABELS	1½			
SUBTOTAL		19			
SECTIONAL ELEVATION					
1	ROOF + FACIA BOARD + GUTTER + RWDP	15			
2	WALLS + FLOOR + FOUNDATION	18			
3	HATCHING	6½			
4	LABELS	2½			
SUBTOTAL		42			
PENALTIES (-)					
TOTAL		93			
EXAMINATION NUMBER					
EXAMINATION NUMBER					
6					





ROOF NOTES:
 ROOF PITCH 15° WITH 200 x 20 mm FASCIA BOARD ON ALL SIDES
 ROOF COVER 15 mm FIBRE CEMENT SHEET ON 75 x 50 mm PURLINS @ 900 mm c/c
 115 x 38 mm ROOF TRUSS ON 115 x 38 mm WALL PLATES
 PLASTER CEILING BOARD ON 38 x 38 mm BRANDING STRIPS @ 700 mm c/c
 100 x 100 mm GUTTER ON ALL SIDES



DOOR AND WINDOW SCHEDULE

TO FIT

1900

1700

DOOR FRAME AND DOOR FOR TOILETS

1000

500

900

OPEN OUT

HINGED

OPEN IN

WINDOW (W1)

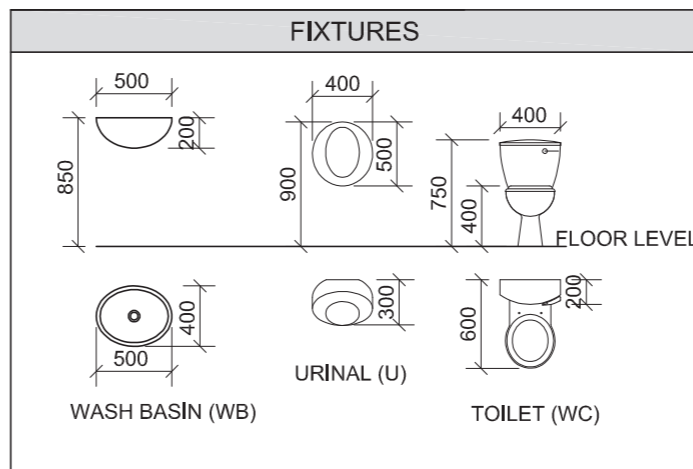
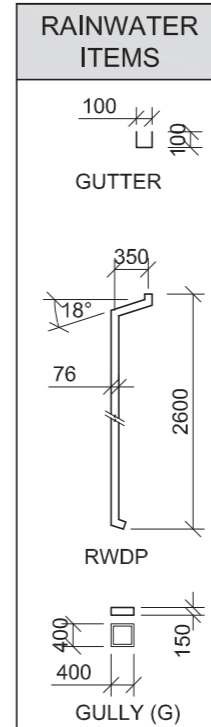
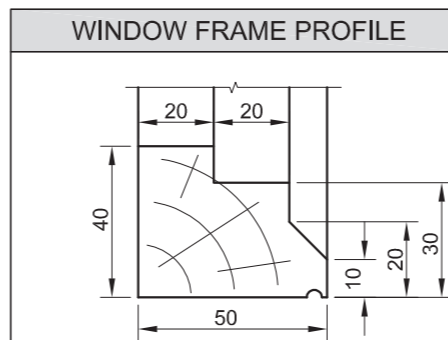
WINDOW (W2)

NOTES:
 150 x 20 FIBRE CEMENT SILL UNDER ALL WINDOWS

ELECTRICAL SYMBOLS

ROOF COMPONENTS

	ROOF CAP
	115 x 38 WALL PLATE
	75 x 50 PURLINS



QUESTION 4: CIVIL DRAWING

Given:

- The incomplete west elevation of a new public toilets, showing the walls, the roof and notes
- The incomplete floor plan showing the walls, position of the doors and windows, fixtures and electrical layout
- Roof notes and a schematic diagram of a roof truss
- The incomplete foundation/footing, slab and wall detail of the three walls to be used in the construction of the new public toilets
- A door and window schedule
- A table of roof components
- A table of the wooden window frame profile
- A table of fixtures
- A table of electrical symbols
- A table of rainwater items
- The incomplete plan of the new public toilets, drawn to scale 1 : 50, on page 6

Instructions:

Answer this question on page 6.

4.1 Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1 : 50, the following views of the new public toilets:

4.1.1 THE COMPLETE FLOOR PLAN

Add the following features to the drawing:

- ALL the doors and the window
- ALL fixtures as indicated by abbreviations
- The electrical layout as indicated by numbers
- ALL hatching detail

4.1.2 THE WEST ELEVATION

Show the following features on the drawing:

- The outside walls and window detail
- The roof detail including the fascia board, gutter, rainwater down pipe and gully
- The finished floor level

4.2 Draw, to scale 1 : 20, a DETAILED SECTION on cutting plane A-A of the area in the ellipse shown on the floor plan on page 6.

Show the following features on the drawing:

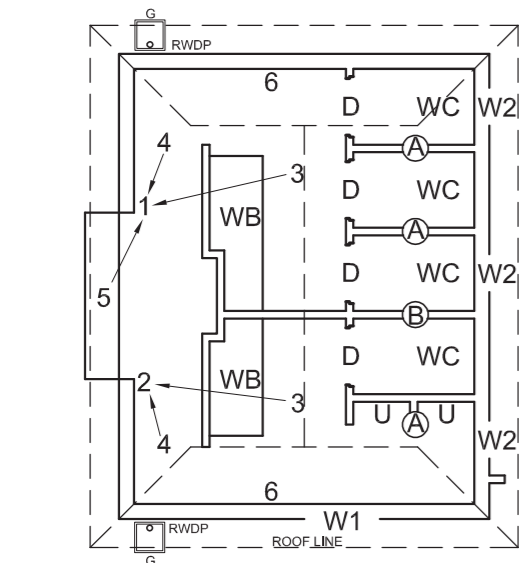
- The complete foundation and external wall detail
- The complete footing and wall A detail
- The roof detail
- The window detail with a double lintel
- ALL features to the east of the cutting plane A-A
- ALL hatching detail. ONLY the substructure hatching may be drawn in freehand.

Label the following:

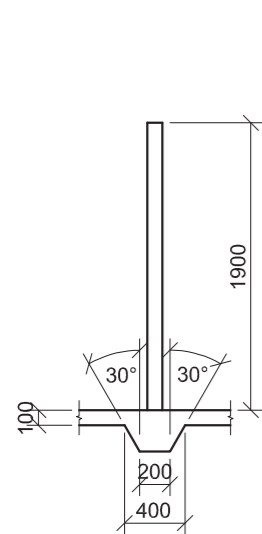
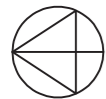
- The west elevation
- The room designations and floor finish (tiles)
- Using correct abbreviations, label the following features in the correct view: ground level, finished floor level and damp-proof course.

NOTE:

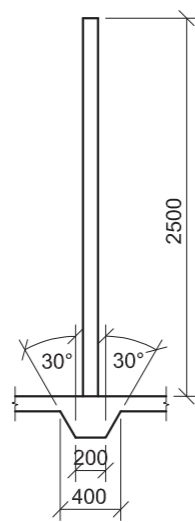
- ALL drawings must comply with the guidelines and graphic symbols contained in the SANS 10143. [92]



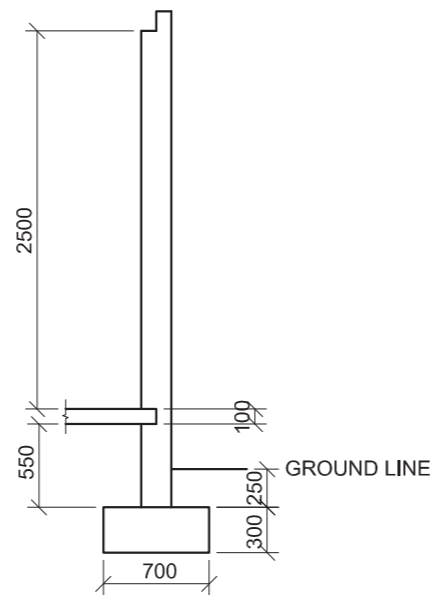
INCOMPLETE FLOOR PLAN



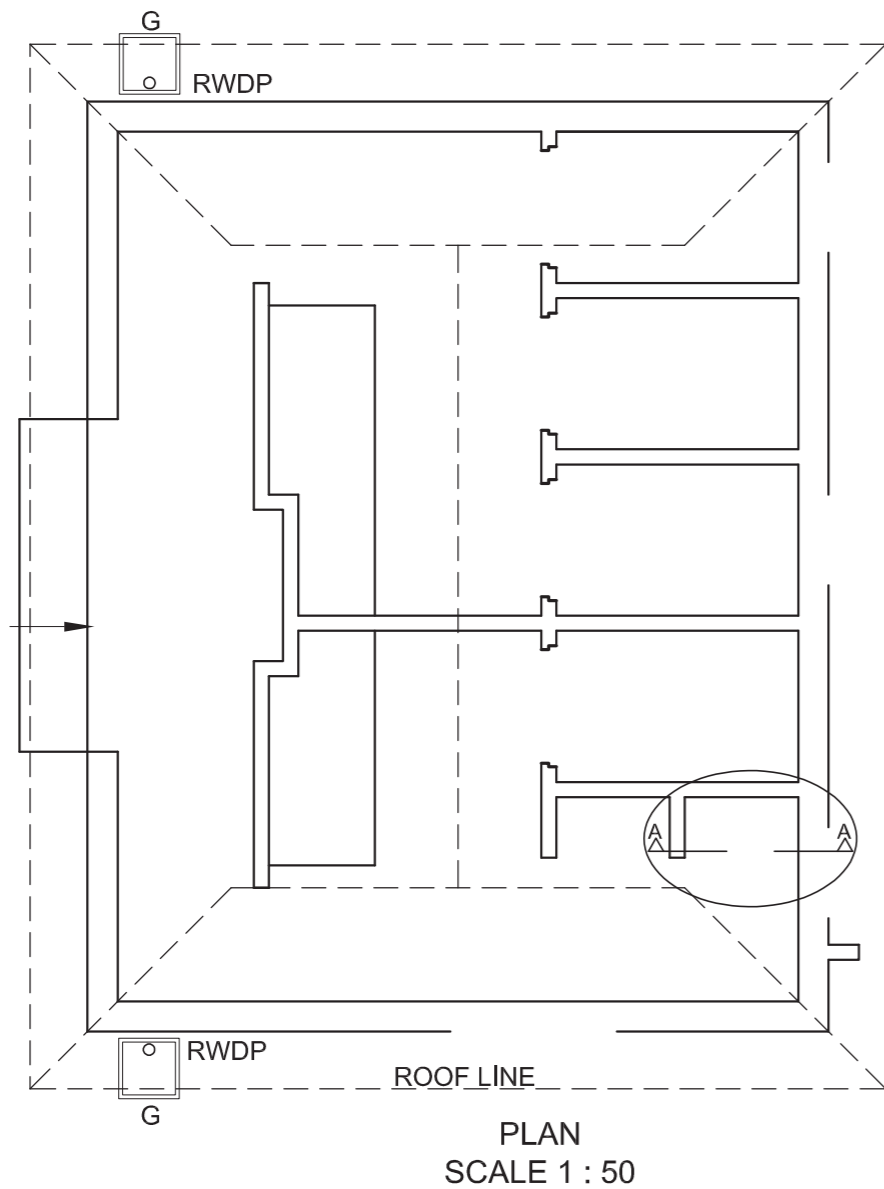
WALL (A)
 INCOMPLETE FOOTING, SLAB AND WALL DETAIL OF THE INTERNAL WALLS BETWEEN THE CUBICLES AND THE URINALS



WALL (B)
 INCOMPLETE FOOTING, SLAB AND INTERNAL WALL DETAIL

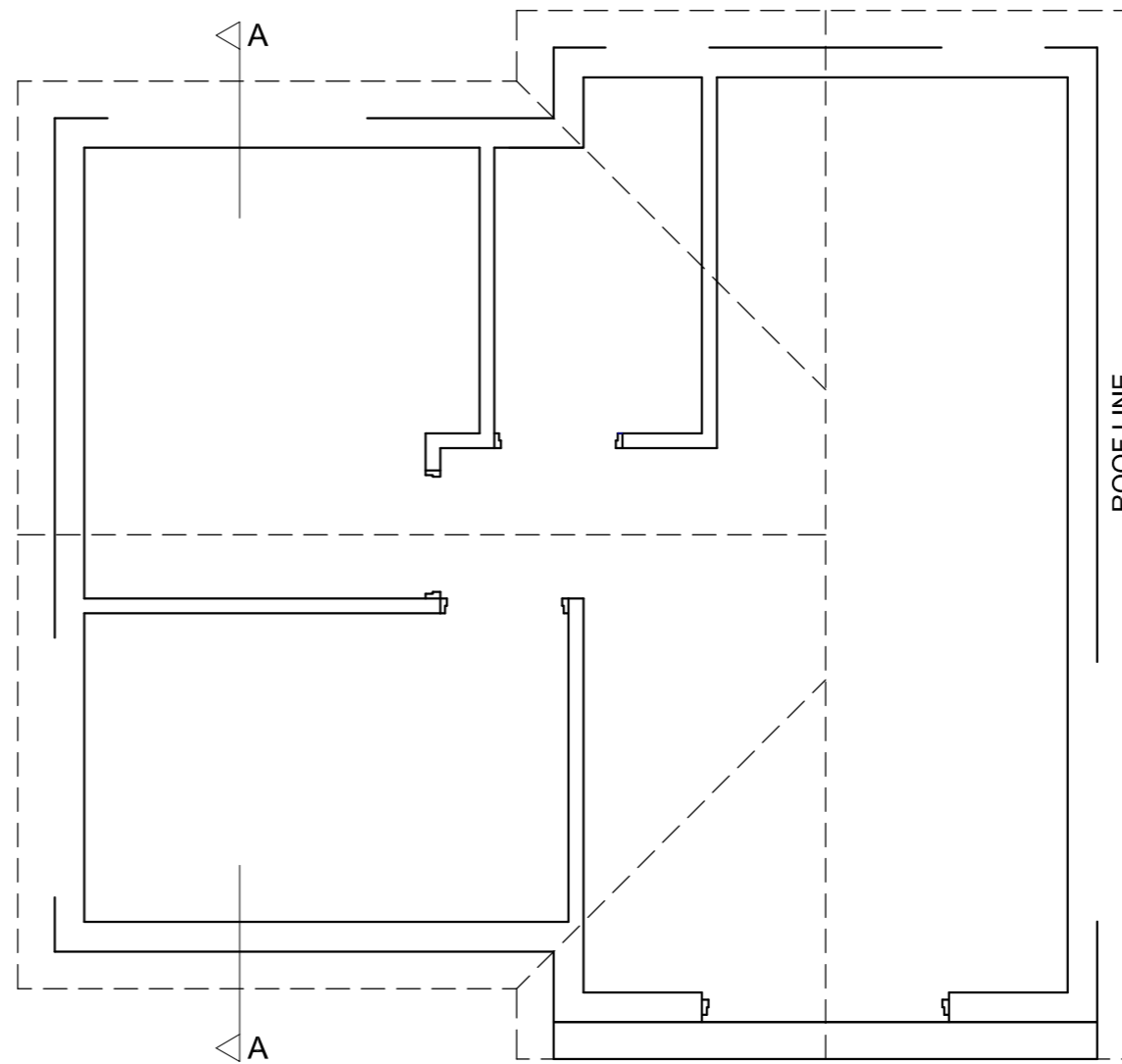


INCOMPLETE FOUNDATION, SLAB AND EXTERNAL WALL DETAIL



DETAILED SECTION
SCALE 1 : 20

ASSESSMENT CRITERIA					
PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATE
1	DOORS + WINDOWS	12			
2	ELECTRICAL	7			
3	FIXTURES	8			
4	HATCHING	4			
5	LABELS	1			
SUBTOTAL		32			
WEST ELEVATION					
1	ROOF	6			
2	WALLS + RWDP + FFL + G + STEP	5			
3	WINDOW	5			
4	LABELS	2			
SUBTOTAL		18			
DETAILED DRAWING					
1	ROOF	13			
2	WINDOW + SILL	8½			
3	FOUNDATIONS + WALLS + SLAB	10½			
4	HATCHING	5			
5	URINAL + LABELS	5			
SUBTOTAL		42			
PENALTIES (-)					
TOTAL		92			
EXAMINATION NUMBER					
EXAMINATION NUMBER					
6					



FLOOR PLAN
SCALE 1 : 50

ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATE
1	LABELS	5			
2	ELECTRICAL	11			
3	FIXTURES	11			
4	DOORS + WINDOWS	15			
5	HATCHING	3			
SUBTOTAL		45			
NORTH ELEVATION					
1	WALLS + FFL + STEP	3			
2	ROOF + FACIA GUTTER + RWDP	6½			
3	DOOR	2			
4	LABELS	1½			
SUBTOTAL		13			
SECTIONAL ELEVATION					
1	ROOF	12			
2	WALLS + FLOOR + FOUNDATION	11½			
3	WINDOWS	7			
4	HATCHING	5			
5	LABELS	2½			
SUBTOTAL		38			
TOTAL		96			
EXAMINATION NUMBER					
EXAMINATION NUMBER					
6					



DOOR AND WINDOW SCHEDULE

NOTE: 175 x 20 FIBRE CEMENT SILL UNDER ALL WINDOWS

WINDOW (W1)
FRONT AND LEFT VIEW OF FRONT DOOR FRAME WITH SIDE PANELS (D2)

INTERNAL DOOR AND FRAME (D1)
FRONT DOOR (D2)

ROOF COMPONENTS	
75 x 50 PURLINS	
200 x 20 FASCIA BOARD	
114 x 38 WALL PLATE	
125 x 100 GUTTER	
ROOF CAP	

ELECTRICAL SYMBOLS

SANITARY FIXTURES	
WASHBASIN (WB)	TOILET (WC)
BUILT-IN CUPBOARD (BIC)	

200 x 20 BARGE BOARD
125 x 100 GUTTER
Ø100 mm RWDP
W1 WINDOW
FRONT DOOR
FLOOR LEVEL
GROUND LEVEL

FIXTURES
D1 INTERIOR DOOR OPENINGS
D2 FRONT DOOR OPENING
W1 WINDOW OPENINGS
WC TOILET
WB WASHBASIN
BIC BUILT-IN CUPBOARD

ELECTRICAL FITTINGS
1. SINGLE-POLE LIGHT SWITCH
2. CEILING LIGHT
3. 2 x 40 W FLUORESCENT TUBES
4. SWITCH SOCKET OUTLET
NOTE: THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.

ROOF NOTES:
ROOF COVER 15 mm CORRUGATED IRON ON 75 x 50 mm PURLINS @ 1800 c/c
114 x 38 mm ROOF TRUSSES ON 114 x 38 mm WALL PLATES
ROOF PITCH 20° WITH 200 x 20 mm FASCIA BOARD ON BOTH ENDS
125 x 100 mm GUTTER ON BOTH ENDS
PLASTER CEILING BOARD ON 6 STRIPS OF 38 x 38 mm BRANDING, EVENLY SPACED

SOUTH-EAST ELEVATION
INCOMPLETE FLOOR PLAN

SCHMATIC DIAGRAM OF A ROOF TRUSS

FLOOR FINISH
ROOM 1: CARPET
ROOM 2: CARPET
TOILET: WOOD
RECEPTION: WOOD

ROOM DESIGNATIONS WITH FLOOR FINISHES

INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL
INCOMPLETE FOUNDATION AND INTERNAL WALL DETAIL

QUESTION 4: CIVIL DRAWING

Given:

- The complete south-east elevation of new **consulting rooms**, showing the walls, the window, the front door, the roof and notes
- The incomplete floor plan, showing the walls, position of the windows, doors, fixtures and the electrical fittings
- Roof notes and a schematic diagram of a roof truss
- Incomplete foundation and wall detail
- The floor finishes and a diagram showing the room designations
- A door and window schedule
- A table of roof components
- A table of electrical symbols
- A table of sanitary fixtures
- The incomplete floor plan of the new **consulting rooms**, drawn to scale 1 : 50, on page 6

Instructions:

- Answer this question on page 6.
- Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1 : 50, the following views of the new **consulting rooms**:
4.1 The complete floor plan
4.2 A sectional elevation on cutting plane A-A
4.3 The north-east elevation
- ALL drawings must comply with the **guidelines** and **graphical symbols** contained in the **SANS 10143**.

SPECIFICATIONS:

THE FLOOR PLAN
Add the following features to the drawing:

- ALL doors and windows
- ALL the sanitary fixtures as indicated by the abbreviations
- ALL the electrical fittings as indicated by the numbers
- ALL hatching detail

THE SECTIONAL ELEVATION

Show the following features on the drawing:

- The complete foundation, wall, slab, roof and ceiling detail
- The window detail, with a double lintel, and the door detail
- The sanitary fixtures
- ALL hatching detail

THE NORTH-EAST ELEVATION

Show the following features on the drawing:

- The outside walls and finished floor level
- The roof detail, including the gutter, fascia board and rain-water downpipe
- The window detail

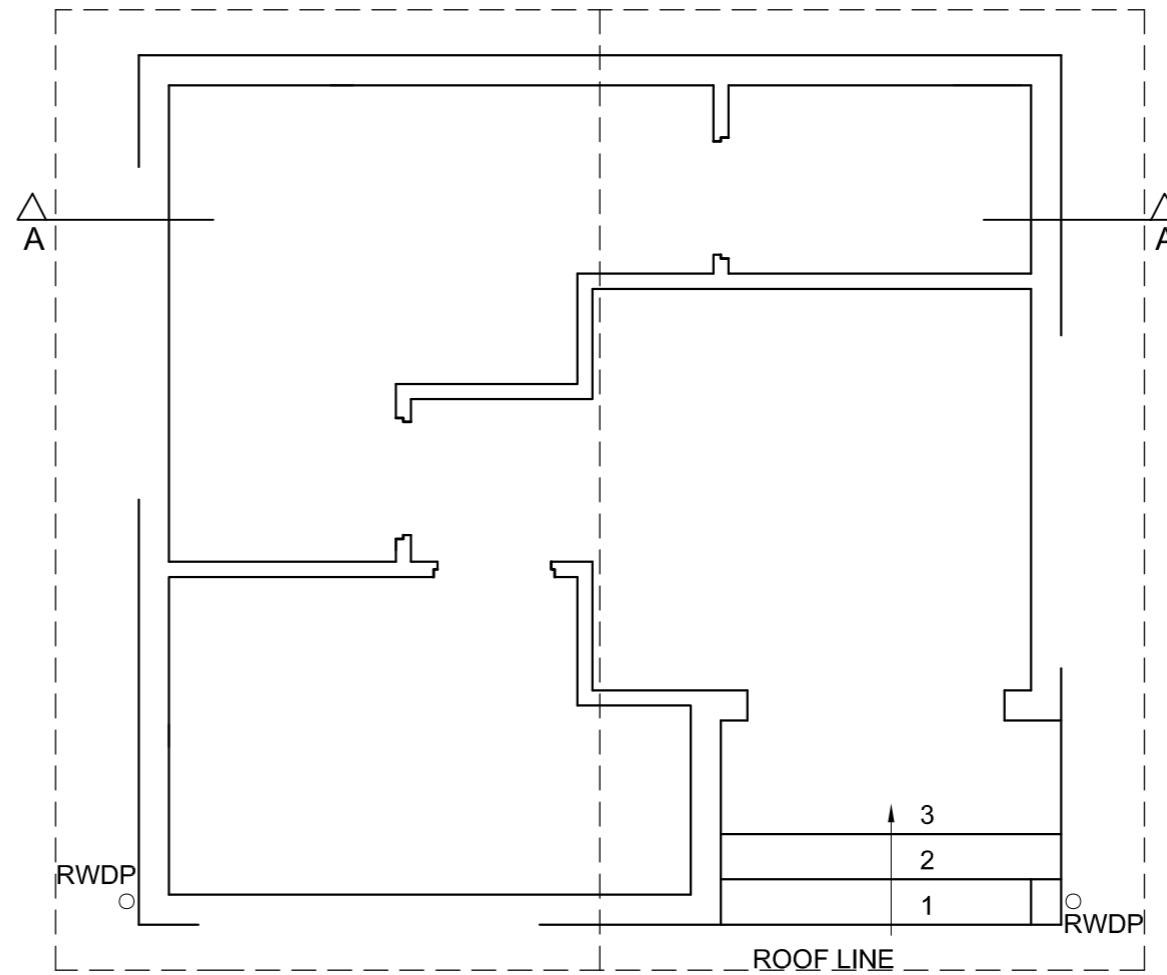
Label the following:

- The room designations with floor finishes
- The sectional elevation and north-east elevation
- Using the correct abbreviations, label the following features in the correct view: ground level and damp-proof course.

NOTE:

- ALL substructure hatching may be drawn in freehand. [96]



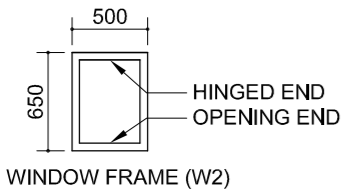
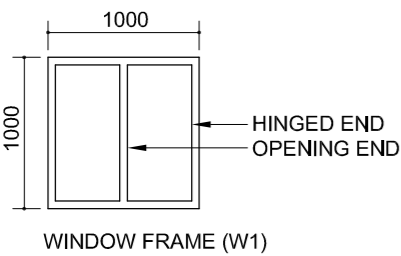
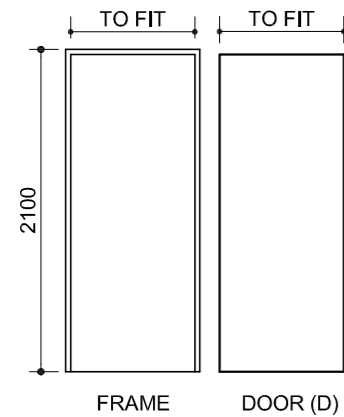


FLOOR PLAN
SCALE 1 : 50



ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATED
1	LABELS	4			
2	ELECTRICAL	11			
3	FITTINGS	6			
4	DOORS + WINDOWS	14			
5	HATCHING	3			
SUBTOTAL		38			
SECTIONAL ELEVATION					
1	ROOF	16			
2	WALLS + FLOOR + FOUNDATIONS	11			
3	WINDOW	2			
4	LABELS	3			
5	HATCHING	6			
6	FIXTURES	4			
SUBTOTAL		42			
NORTH-EAST ELEVATION					
1	WALLS + FFL	5			
2	ROOF + GUTTER + RWDP	5			
3	WINDOW	5			
4	LABELS	1			
SUBTOTAL		16			
TOTAL		96			
EXAMINATION NUMBER					
EXAMINATION NUMBER					
6					

DOOR AND WINDOW SCHEDULE

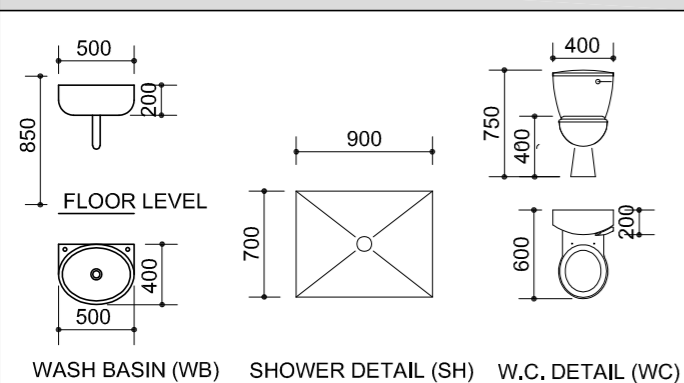


NOTES:
150 x 20 FIBRE CEMENT SILL UNDER ALL WINDOWS

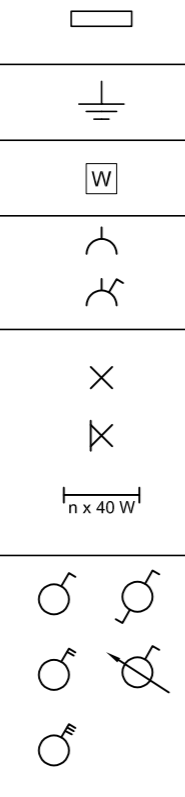
ROOF COMPONENTS

	ROOF CAP
	115 x 38 WALL PLATE
	75 x 50 PURLINS
	100 x 100 GUTTER

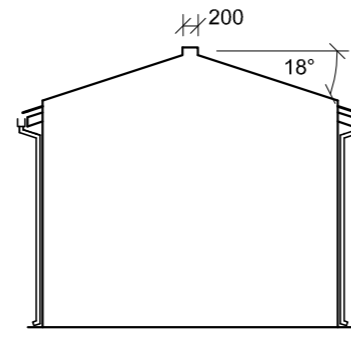
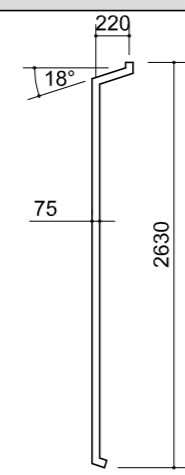
DIMENSIONS OF FIXTURES



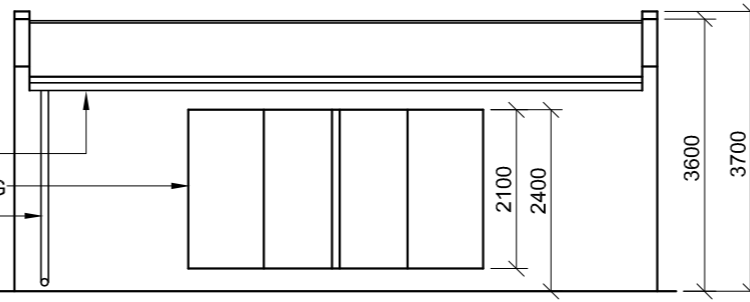
ELECTRICAL SYMBOLS



RAINWATER DOWNPIPE



EAST ELEVATION



INCOMPLETE SOUTH ELEVATION

FEATURES

- D DOOR
- W1 WINDOW
- W2 WINDOW

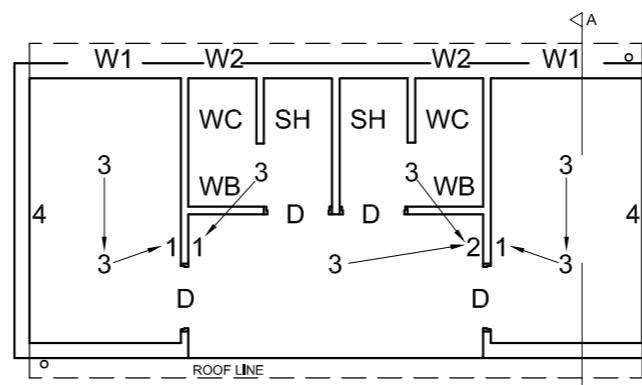
FIXTURES

- WC - TOILET
- SH - SHOWER
- WB - WASH BASIN

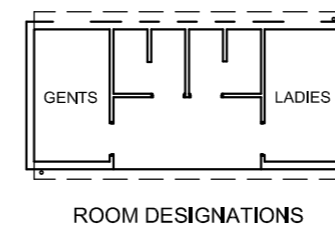
ELECTRICAL FIXTURES

- LIGHT SWITCH ONE-POLE
- LIGHT SWITCH TWO-POLE
- CEILING LIGHT
- SWITCHED SOCKET OUTLET

NOTE:
THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH



INCOMPLETE FLOOR PLAN



ROOM DESIGNATIONS

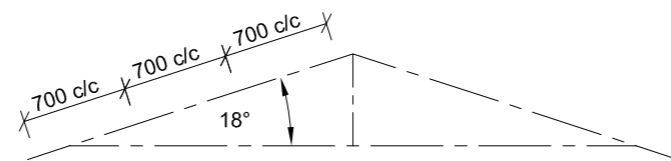
ROOF NOTES:

ROOF COVER 15 mm FIBRE CEMENT SHEET ON 75 x 50 mm PURLINS @ 700 mm c/c.

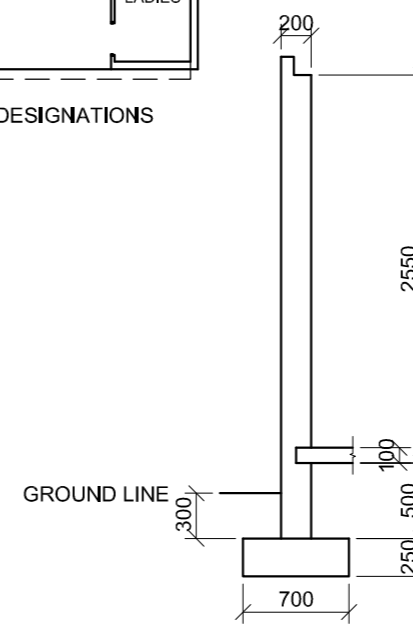
115 x 38 mm ROOF TRUSS ON 115 x 38 mm WALL PLATE.

ROOF PITCH 18°.

100 mm SQUARE GUTTER ON BOTH ENDS.



SCHEMATIC DIAGRAM OF A ROOF TRUSS



INCOMPLETE FOUNDATION, SLAB AND WALL DETAIL ON A-A

QUESTION 4: CIVIL DRAWING

Given:

- The incomplete south elevation of a new **change room**, showing the walls, the entrance opening, the roof, dimensions and notes
- The incomplete floor plans showing the walls, position of the doors, the windows, the fixtures, the electrical features and room designations
- The complete east elevation
- Roof notes and a schematic diagram of a roof truss
- The incomplete foundation, slab and wall detail
- A door and window schedule
- A table of electrical symbols
- A table of roof components and the rainwater downpipe
- A table of fixtures
- The incomplete plan of the new **change room**, drawn to scale 1 : 50, on page 6

Instructions:

- Answer this question on page 6.
- Using the given incomplete floor plan, draw to scale 1:50 and in first-angle orthographic projection, the following views of the new **change room**:
 - The complete floor plan
 - The south elevation
 - A sectional elevation on cutting plane A-A
- ALL drawings must comply with the **guidelines** and **conventions** contained in the *SABS 0143*.

SPECIFICATIONS:

THE FLOOR PLAN

Add the following features to the drawing:

- ALL the doors and windows
- ALL fixtures as indicated by abbreviations
- ALL electrical features as indicated by numbers
- ALL hatching detail

THE SOUTH ELEVATION

Show the following features on the drawing:

- The outside walls
- The roof detail including the gutter and rainwaterdown pipe
- ALL visible detail through the front entrance opening with the internal doors open
- The finished floor level

THE SECTIONAL ELEVATION

Show the following features on the drawing:

- The complete foundation, wall, slab and roof detail
- The window detail with a double lintel above the window
- ALL features to the west of the cutting plane A-A
- ALL hatching detail

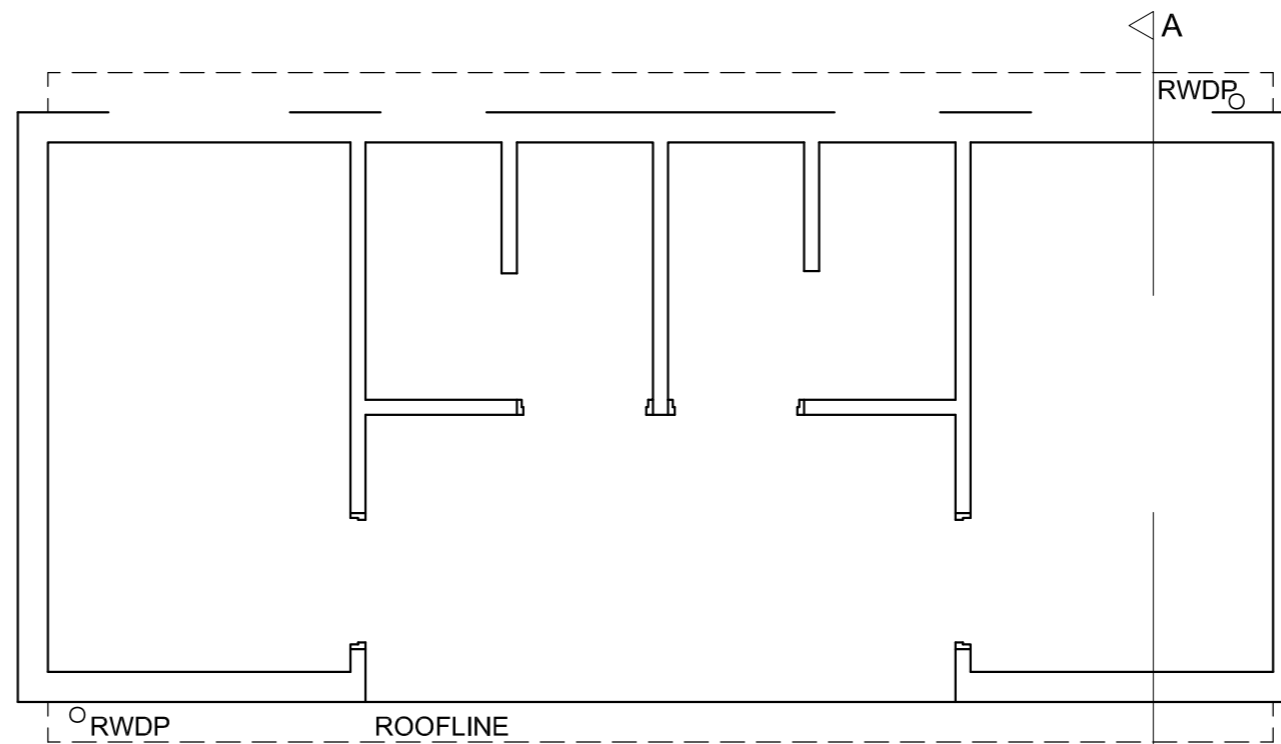
Label the following:

- The room designations and floor finish (tile)
- The south elevation and the sectional elevation
- Using correct abbreviations, label the following features in the correct view: ground level, finished floor level and damp-proof course.

NOTE:

- ONLY the substructure hatching may be drawn in freehand.





PLAN
SCALE 1:50

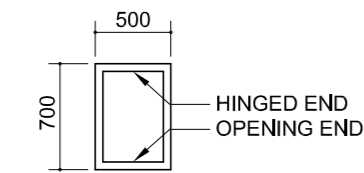
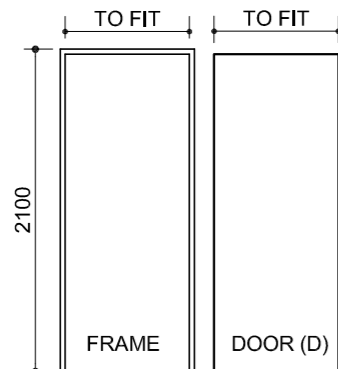
ASSESSMENT CRITERIA					
PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATE
1	LABELS	2			
2	ELECTRICAL	10			
3	FIXTURES	6			
4	DOORS + WINDOWS	14			
5	HATCHING	4			
SUBTOTAL		36			
SOUTH ELEVATION					
1	WALLS + FFL + DOOR + SH	11			
2	ROOF + GUTTER + RWDP	3			
3	LABELS	2			
SUBTOTAL		16			
SECTIONAL ELEVATION					
1	ROOF	15			
2	WALLS + FLOOR + FOUNDATION	13			
3	WINDOW + DOOR + FIXTUR'S	5			
4	HATCHING	6			
5	LABELS	3			
SUBTOTAL		42			
TOTAL		94			
EXAMINATION NUMBER					
EXAMINATION NUMBER					
6					



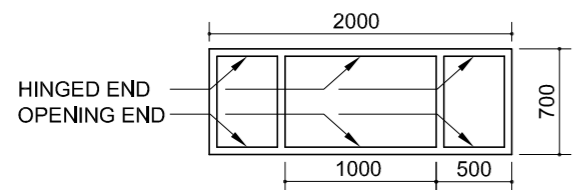
ELECTRICAL SYMBOLS	

ROOF COMPONENTS	
	75 x 50 PURLINS
	115 x 38 WALL PLATE
	ROOF CAP
	200 x 12 FASCIA BOARD

DOOR AND WINDOW SCHEDULE

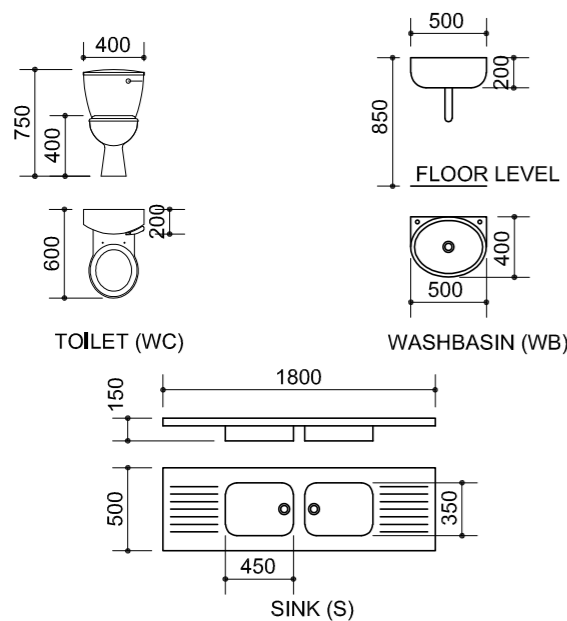


50 x 50 TIMBER WINDOW FRAME (W1)



50 x 50 TIMBER WINDOW FRAME (W2)

DIMENSIONS OF FIXTURES



FEATURES

- D - DOOR
- W1 - WINDOW
- W2 - WINDOW

FIXTURES

- WC - TOILET
- S - SINK
- WB - WASHBASIN

ELECTRICAL FITTINGS

1. SINGLE-POLE LIGHT SWITCH
2. TWO-POLE LIGHT SWITCH
3. 3 x 40 W FLUORESCENT TUBES
4. CEILING LIGHT
5. OUTSIDE LIGHT
6. SWITCHED SOCKET OUTLET
7. DISTRIBUTION BOARD

NOTE:
THE ARROWS SHOW THE LIGHT CONNECTION TO THE SWITCH.

ROOF NOTES:

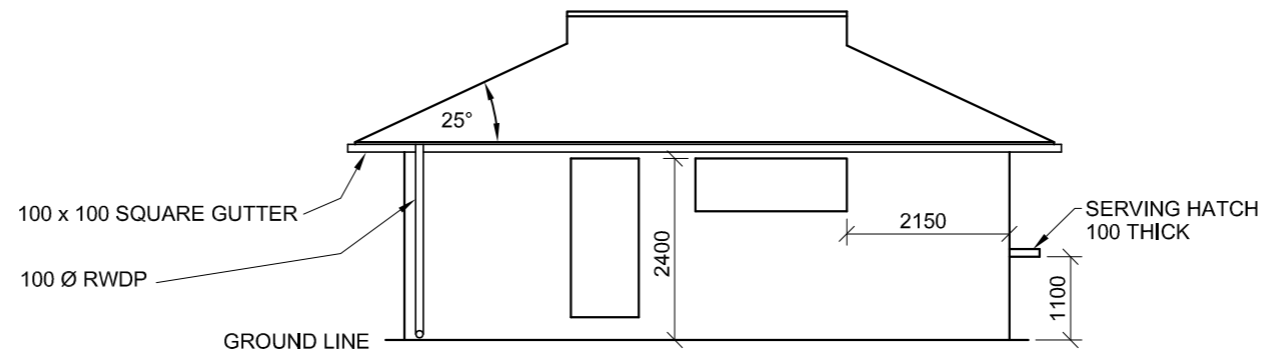
ROOF COVER 15 mm CORRUGATED IRON SHEET ON 75 x 50 mm PURLINS @ 1100 c/c

ROOF PITCH 25°

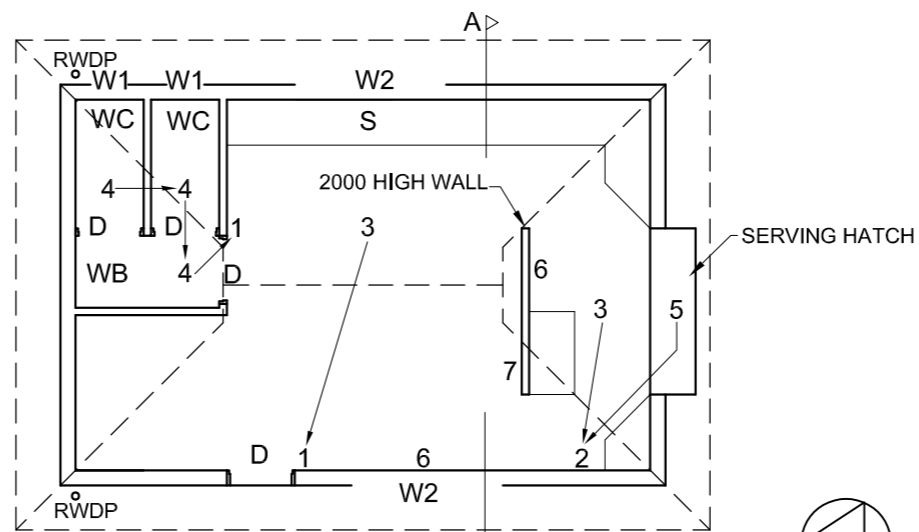
115 x 38 mm ROOF TRUSS ON 115 x 38 mm WALL PLATE

6 mm PLASTER BOARD ON 38 x 38 mm BRANDERING @ 1000 c/c

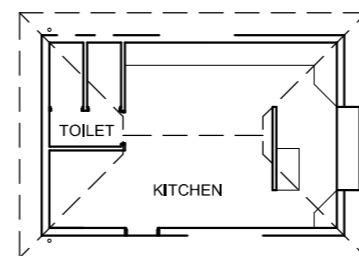
100 mm SQUARE GUTTER AROUND THE BUILDING



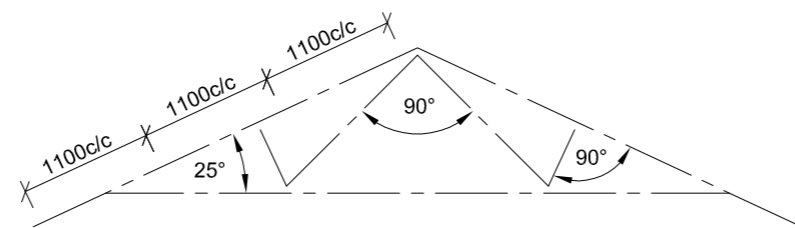
INCOMPLETE WEST ELEVATION



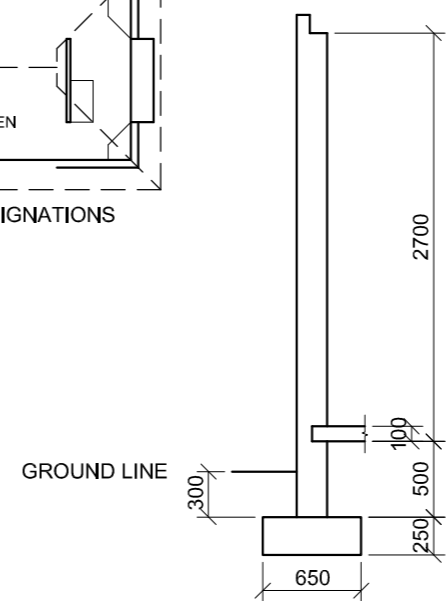
INCOMPLETE FLOOR PLAN



ROOM DESIGNATIONS



SCHEMATIC DIAGRAM OF A ROOF TRUSS



INCOMPLETE FOUNDATION AND WALL DETAIL ON A-A

QUESTION 4: CIVIL DRAWING

Given:

- The incomplete west elevation of a new **kitchen and tuck shop** showing the walls, the position of the window, the door, the roof, dimensions and notes
- The incomplete floor plan showing the walls, position of the windows, doors, fixtures and electrical features
- Roof notes and a schematic diagram of a roof truss
- The incomplete foundation and wall detail on cutting plane A-A
- A table of electrical symbols
- A table of roof components
- A door and window schedule
- A table of fixtures
- The incomplete floor plan of the new **kitchen and tuck shop**, drawn to scale 1 : 50, on page 6

Instructions:

- Answer this question on page 6.
- Using the given incomplete floor plan, draw in first-angle orthographic projection and to scale 1 : 50, the following views of the new **kitchen and tuck shop**:
 - 4.1 The complete floor plan**
 - 4.2 A sectional elevation** on cutting plane A-A
 - 4.3 The west elevation**
- ALL drawings must comply with the **guidelines** and **conventions** contained in the **SABS 0143**.

SPECIFICATIONS:

THE FLOOR PLAN

Add the following features to the drawing:

- ALL doors and windows
- ALL fixtures as indicated by the abbreviations
- ALL electrical fittings as indicated by the numbers
- ALL hatching detail

THE WEST ELEVATION

Show the following features on the drawing:

- The outside walls
- The roof detail, including the gutter and rainwater downpipe
- The window and door detail
- The finished floor level

THE SECTIONAL ELEVATION

Show the following features on the drawing:

- The complete foundation, wall and roof detail
- The window detail with a double lintel above the window
- The internal wall to the south of cutting plane A-A ONLY
- ALL hatching detail

Label the following:

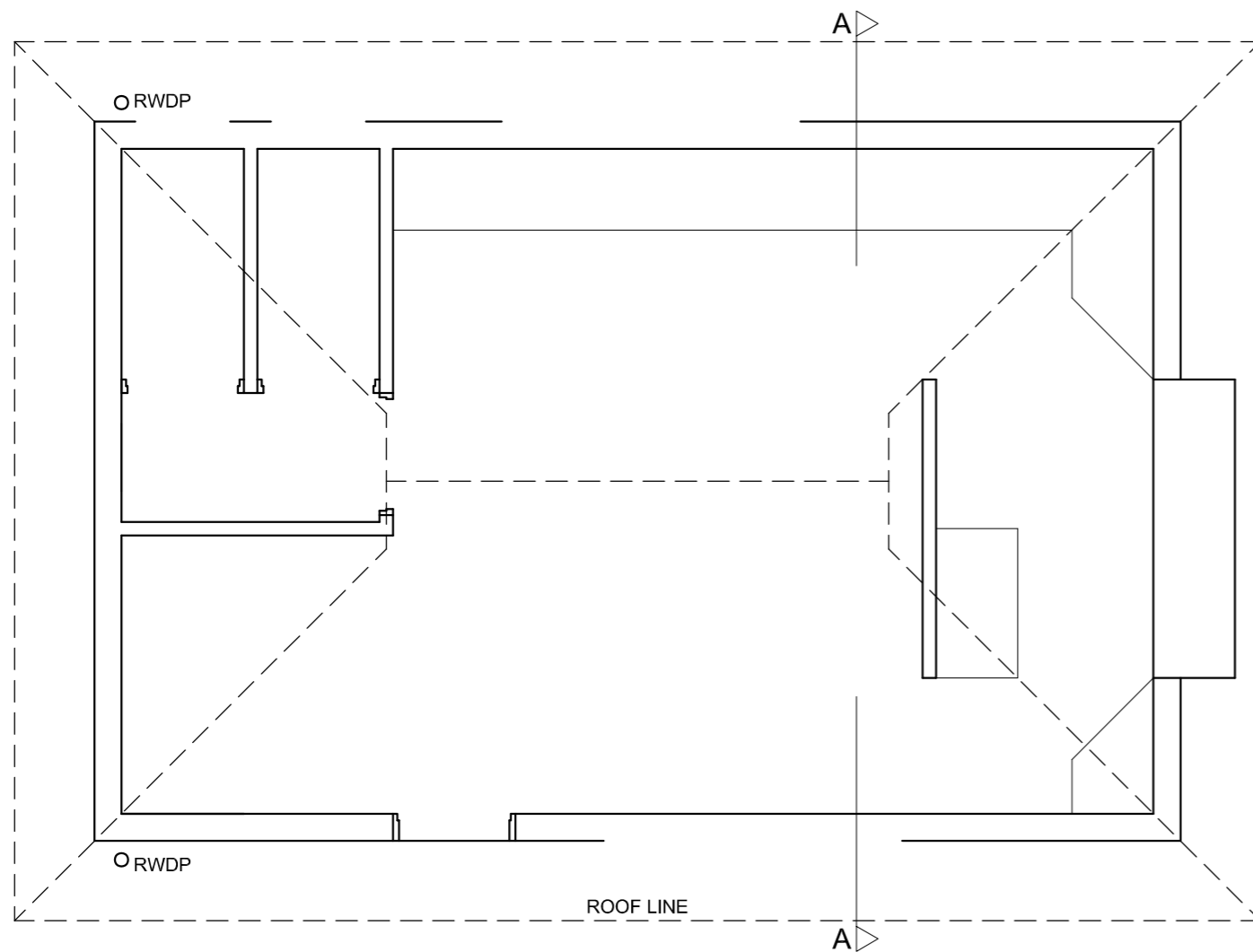
- The room designations and floor finish (tile)
- The west elevation and the sectional elevation
- Using correct abbreviations, label the following features in the correct view: ground level, finished floor level and damp-proof course.

NOTE:
ONLY the substructure hatching may be drawn in freehand.





NGL _____

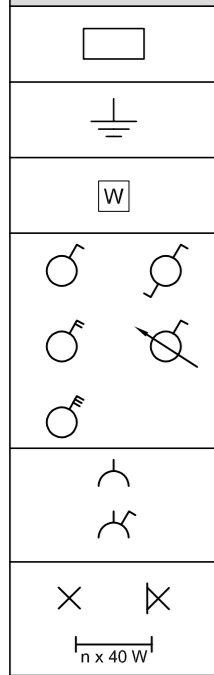


FLOOR PLAN
SCALE 1 : 50

ASSESSMENT CRITERIA				
FLOOR PLAN				
1	ELECTRICAL	9		
2	HATCHING	5		
3	DOORS + WINDOWS	14		
4	FIXTURES	4		
5	LABELS	2		
SUBTOTAL		34		
WEST ELEVATION				
1	WALLS + FFL + SERV' HATCH	3½		
2	ROOF + GUTTER + RWDP	7		
3	DOOR + WINDOW	6		
4	LABELS	1½		
SUBTOTAL		18		
SECTIONAL ELEVATION				
1	ROOF + CEILING	18		
2	WALLS + FLOOR + FOUNDATION	13		
3	WINDOW	3		
4	HATCHING	5		
5	LABELS	3		
SUBTOTAL		42		
TOTAL		94		
EXAMINATION NUMBER				
EXAMINATION NUMBER				
				6



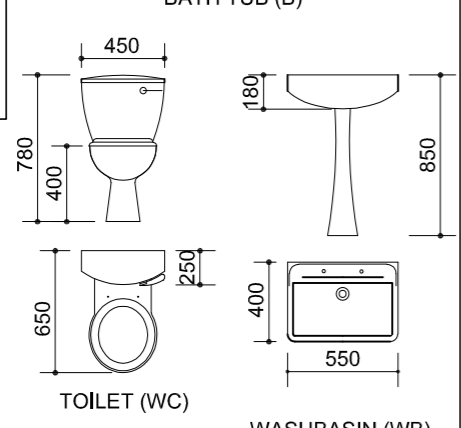
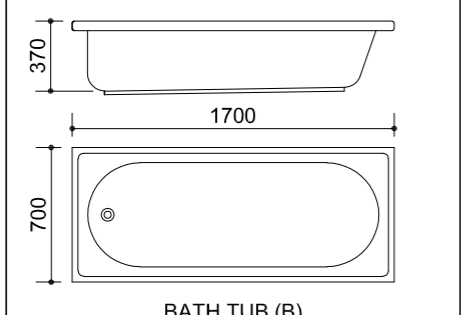
ELECTRICAL SYMBOLS



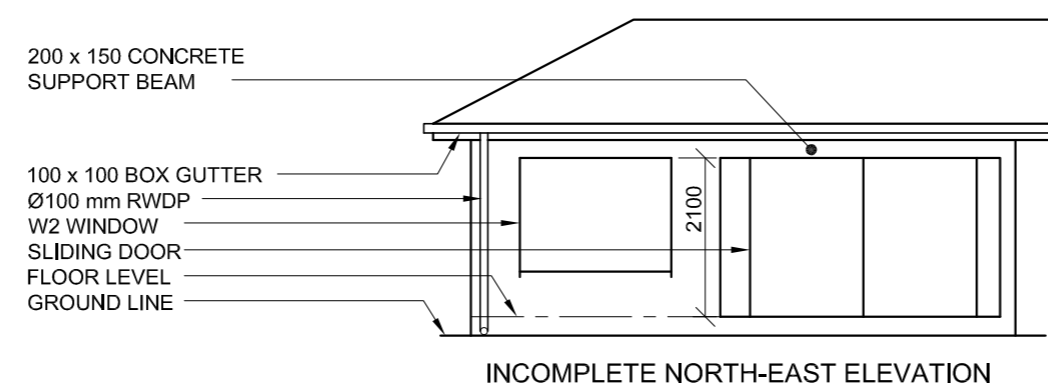
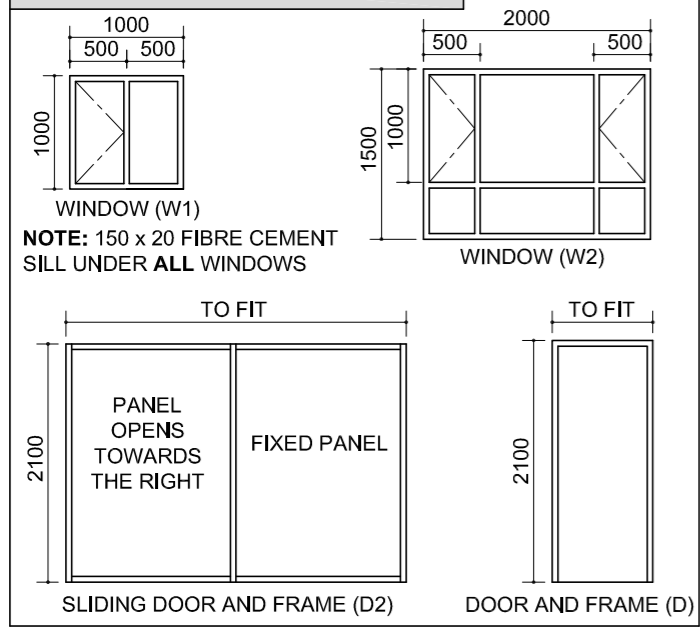
n x 40 W

ROOF COMPONENTS	
	75 x 50 PURLINS
	228 x 20 FASCIA BOARD
	114 x 38 WALL PLATE

FIXTURES



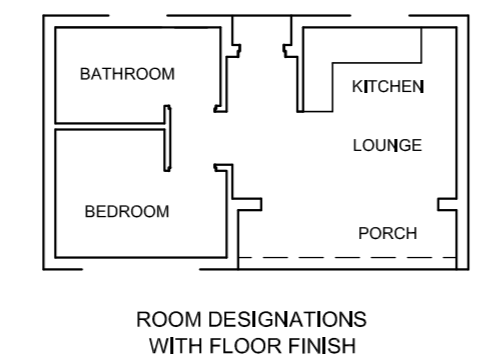
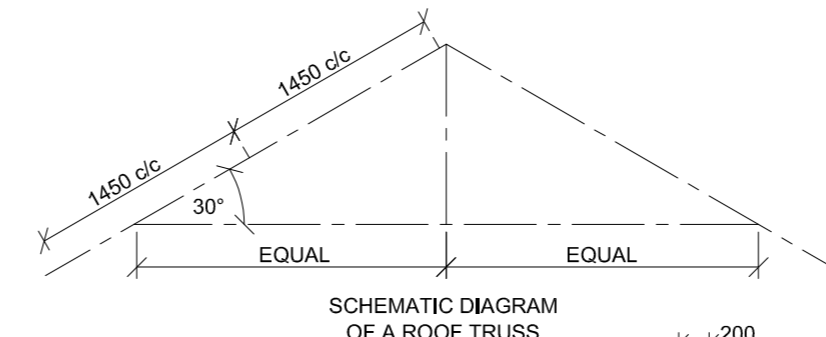
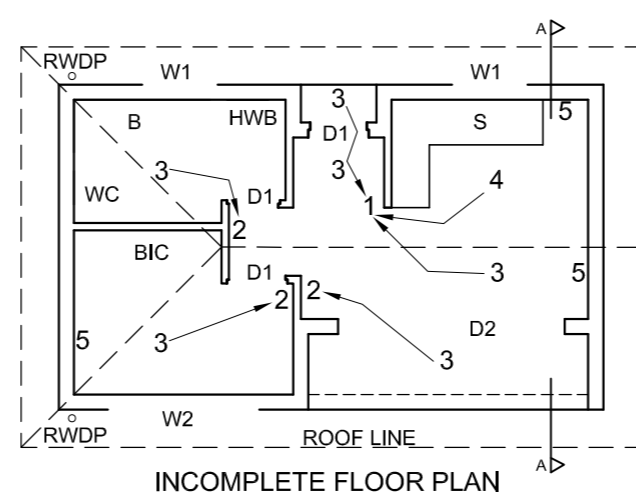
DOOR AND WINDOW SCHEDULE



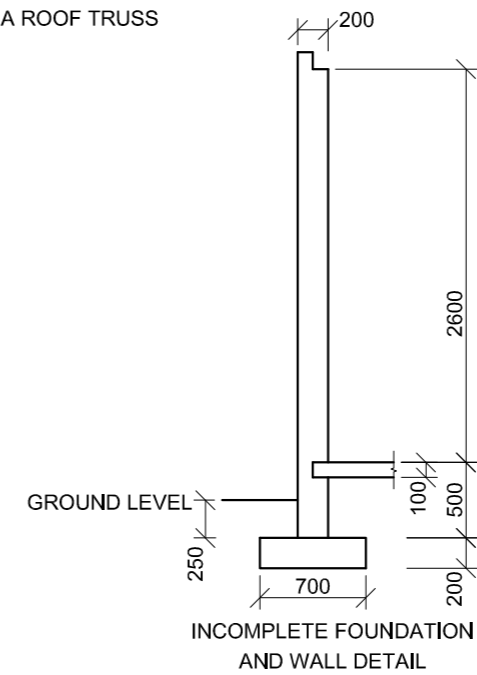
- FIXTURES**
D1 HINGED DOOR OPENINGS
D2 SLIDING DOOR OPENING
W1, W2 WINDOW OPENINGS
B BATH
S SINK
WC TOILET
WB WASHBASIN
BIC BUILT-IN CUPBOARD

- ELECTRICAL FIXTURES**
1. THREE-POLE LIGHT SWITCH
2. SINGLE-POLE LIGHT SWITCHES
3. CEILING LIGHT
4. 2 x 40 W FLUORESCENT TUBES
5. SWITCH SOCKET OUTLETS
- NOTE:**
THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.

ROOF NOTES:
 ROOF COVER 15 mm CORRUGATED IRON ON 75 x 50 mm PURLINS @ 1450 c/c.
 114 x 38 mm ROOF TRUSSES ON 114 x 38 mm WALL PLATES.
 ROOF PITCH 30° WITH 228 x 20 mm FASCIA BOARD ON BOTH ENDS.
 100 mm SQUARE BOX GUTTER
 PLASTER CEILING BOARD ON 4 STRIPS OF 38 x 38 mm BRANDING, EVENLY SPACED



- FLOOR FINISH**
 KITCHEN: TILES
 LOUNGE: TILES
 PORCH: TILES
 BEDROOM: CARPET
 BATHROOM: TILES



QUESTION 4: CIVIL DRAWING

Given:

- The incomplete north-east elevation of a new **cottage** showing the walls, the position of the windows, sliding door, the roof and notes
- The incomplete floor plan showing the walls, position of the windows, doors, fixtures and the electrical fixtures
- Roof notes and a schematic diagram of a roof truss
- A diagram showing the room designations and floor finishes
- The incomplete foundation and wall detail
- A table of electrical symbols
- A table of roof components
- A table of fixtures
- A door and window schedule
- The incomplete floor plan of the new **cottage**, drawn to scale 1 : 50, on page 6

Instructions:

- Answer this question on page 6.
- Using the given incomplete floor plan, draw, to scale 1 : 50 and to the specifications, the following views of the new **cottage**:
4.1 The complete floor plan
4.2 The north-east elevation
4.3 A sectional elevation on cutting plane A-A
- ALL drawings must comply with the guidelines and conventions contained in the *SABS 0143*.

SPECIFICATIONS:
 THE FLOOR PLAN
Add the following features to the drawing:

- ALL doors and windows. Show the direction of opening for the sliding door.
- ALL fixtures as indicated by the abbreviations
- ALL the electrical fixtures as indicated by the numbers
- ALL hatching detail

THE NORTH-EAST ELEVATION
Show the following features on the drawing:

- The outside walls
- The roof detail including the gutter, fascia board and rainwater downpipe
- The window and sliding door detail including all the directions of opening

THE SECTIONAL ELEVATION
Show the following features on the drawing:

- The complete foundation, wall, slab, roof and ceiling detail
- The sliding door detail
- ALL hatching detail

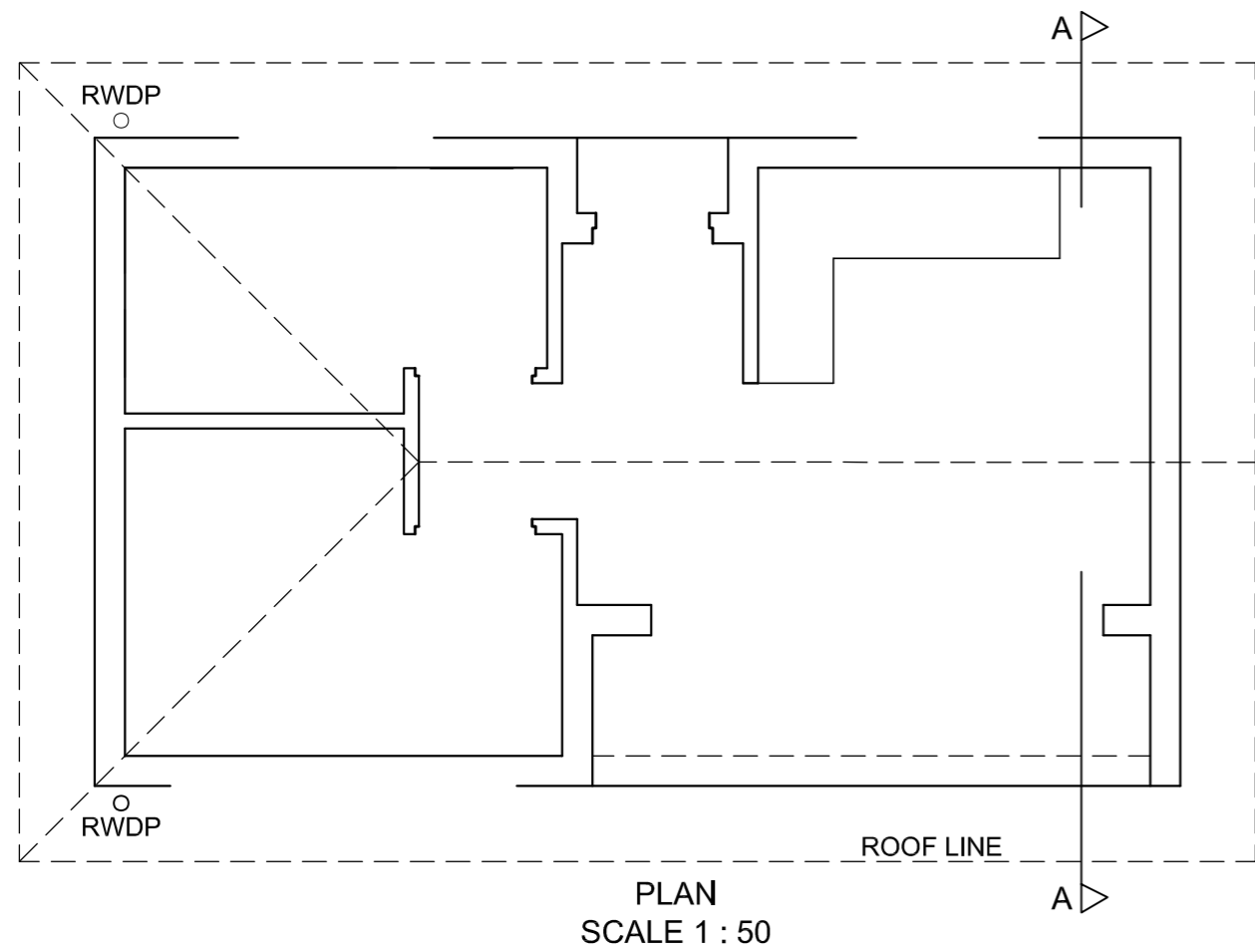
Label the following:

- The north-east elevation and the sectional elevation
- The room designations with floor finishes
- Using the correct abbreviations, label the following features in the correct view: ground level and damp-proof course.

NOTE:




- ALL substructure hatching may be drawn in freehand. [96]

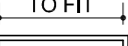
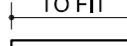
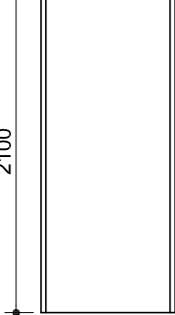
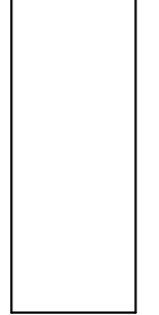


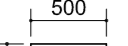
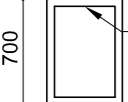


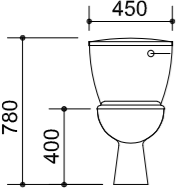
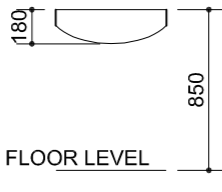
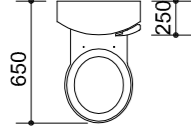
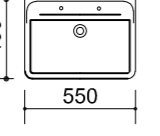
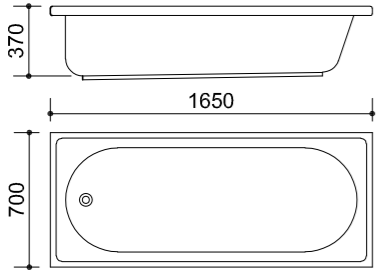
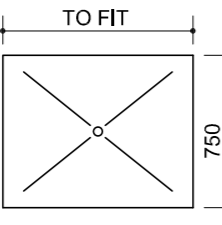
ASSESSMENT CRITERIA				
FLOOR PLAN				
1	LABELS	5		
2	ELECTRICAL	8		
3	FITTINGS	6		
4	DOORS + WINDOWS	12		
5	HATCHING	6		
SUBTOTAL		37		
NORTH-EAST ELEVATION				
1	WALLS + FFL	4		
2	ROOF + GUTTER + RWDP	6½		
3	WINDOWS + DOOR	9		
4	LABELS	1½		
SUBTOTAL		21		
SECTIONAL ELEVATION				
1	ROOF	13		
2	WALLS + FLOOR + FOUNDATIONS	15½		
3	SLIDING DOOR	1		
4	LABELS	1½		
5	HATCHING	7		
SUBTOTAL		38		
TOTAL		96		
EXAMINATION NUMBER				
EXAMINATION NUMBER				
				6













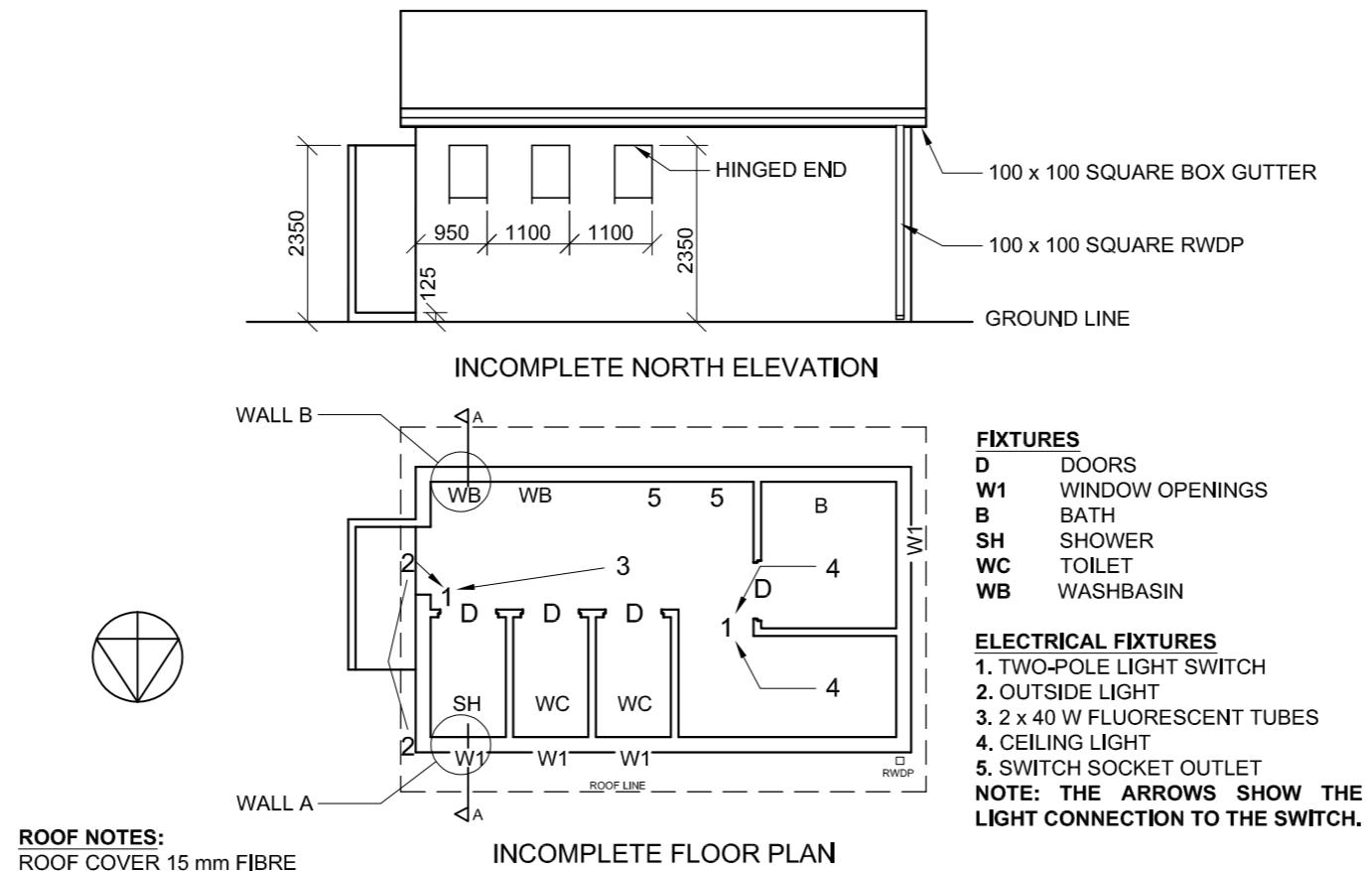
ROOF COMPONENTS	
	75 x 50 PURLINS
	228 x 20 FASCIA BOARD
	114 x 38 WALL PLATE

DOOR SCHEDULE	
	TO FIT
	TO FIT
	FRAME
	HOLLOW CORE DOOR (D)

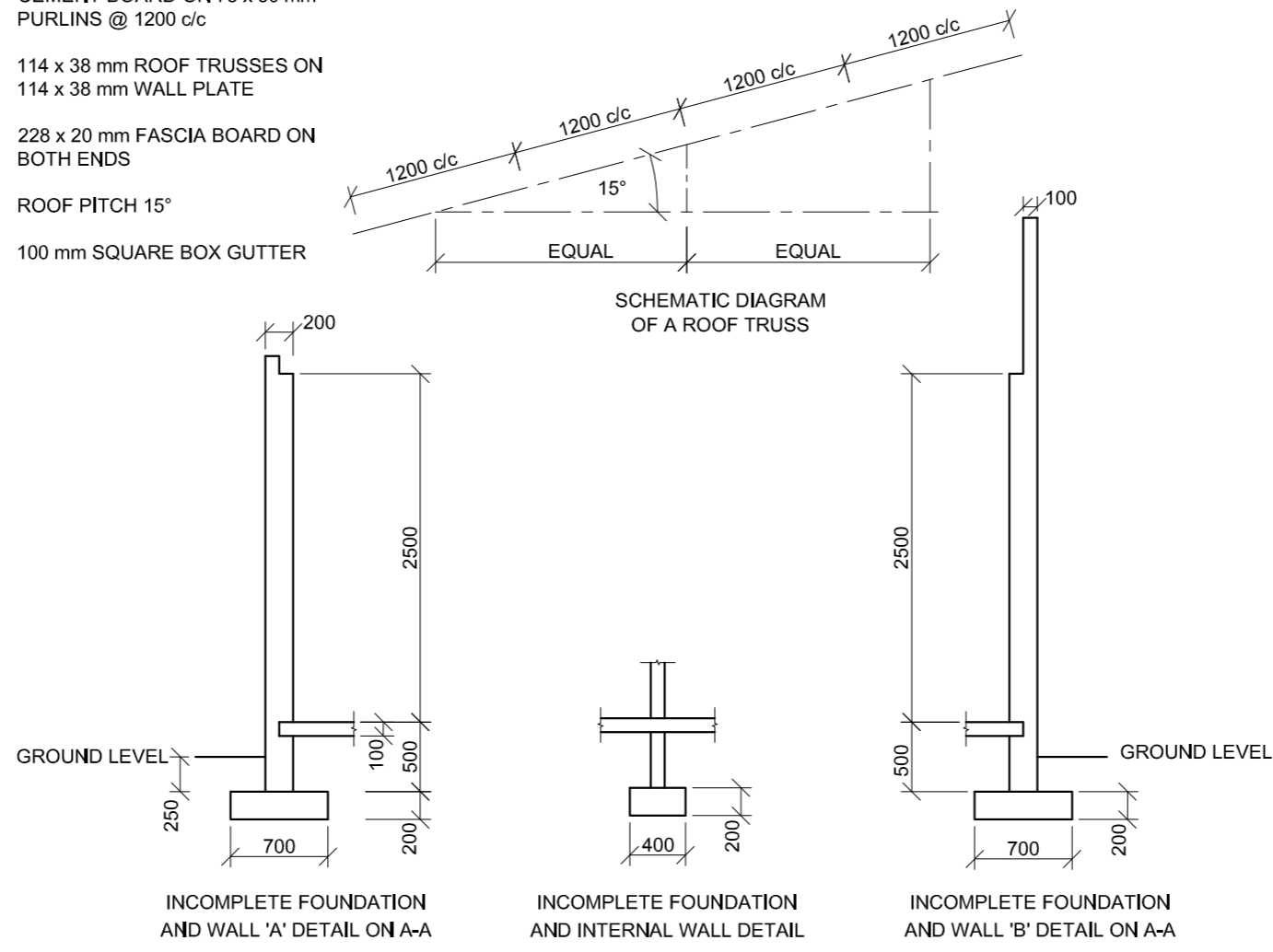
WINDOW SCHEDULE	
	HINGED END
	WOODEN FRAME (W1)
NOTE: 150 x 20 FIBRE CEMENT SILL UNDER ALL WINDOWS	

DIMENSIONS OF SANITARY FIXTURES	
	TOILET (WC)
	WASHBASIN (WB)
	TOILET (WC)
	WASHBASIN (WB)
	BATH TUB (B)
	SHOWER (SH)

ELECTRICAL SYMBOLS	
	
	
	
	
	
	
	
	
	
	



ROOF NOTES:
 ROOF COVER 15 mm FIBRE CEMENT BOARD ON 75 x 50 mm PURLINS @ 1200 c/c
 114 x 38 mm ROOF TRUSSES ON 114 x 38 mm WALL PLATE
 228 x 20 mm FASCIA BOARD ON BOTH ENDS
 ROOF PITCH 15°
 100 mm SQUARE BOX GUTTER



QUESTION 4: CIVIL DRAWING

Given:

- The incomplete north elevation of a new **ablution block** for a campsite showing the walls, the position of the windows, the roof and notes
- The incomplete floor plan showing the walls, position of the windows, doors, sanitary fixtures and the electrical fixtures
- Roof notes and a schematic diagram of a roof truss
- The incomplete foundation and wall detail of wall 'A' and wall 'B' on cutting plane A-A
- A table of roof components
- A door and window schedule
- A table of electrical symbols
- A table of sanitary fixtures
- The incomplete floor plan of the new **ablution block**, drawn to scale 1 : 50, on page 6

Instructions:

- Answer this question on page 6.
- Using the given incomplete floor plan, draw, to scale 1 : 50 and to the specifications, the following views of the new **ablution block**:
4.1 The complete floor plan
4.2 The north elevation
4.3 A sectional elevation on cutting plane A-A
- ALL drawings must comply with the guidelines and conventions contained in the *SABS 0143*.

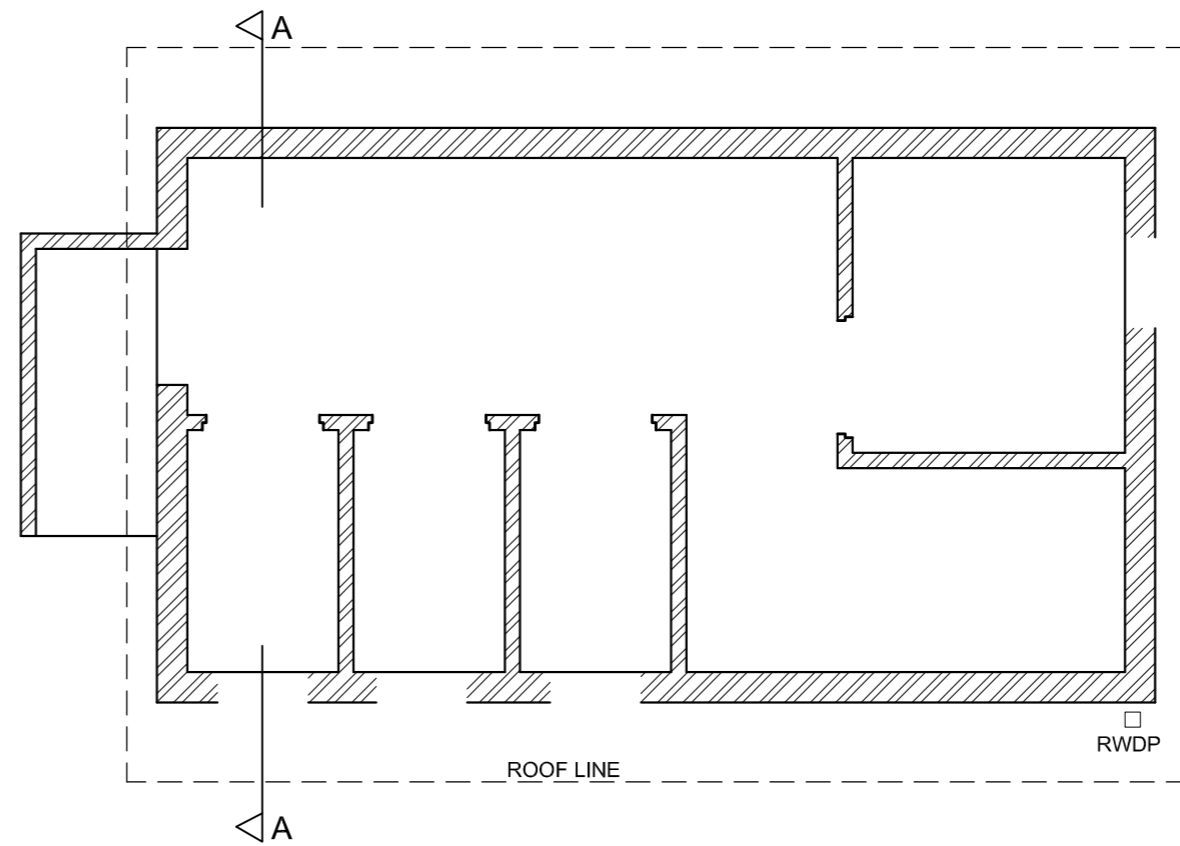
SPECIFICATIONS:

- THE FLOOR PLAN**
Add the following features to the drawing:
- ALL the doors and windows
 - The sanitary fixtures as indicated with the abbreviations
 - ALL the electrical fixtures as indicated with the numbers
- THE NORTH ELEVATION**
Show the following features on the drawing:
- The outside walls
 - The roof detail including the gutter, fascia board and rainwater downpipe
 - The window detail
 - The finished floor level

- THE SECTIONAL ELEVATION**
Show the following features on the drawing:
- The complete foundation, wall, slab and roof detail
 - The window, with a single lintel, and door detail
 - ALL features and fixtures on and to the east of cutting plane A-A
 - ALL hatching detail

- Label the following:**
- The floor plan, including the scale
 - The room designation and floor finish (ceramic tile)
 - The north elevation and the sectional elevation
 - Using the correct abbreviations, label the following features in the correct view: ground level, finished floor level and damp-proof course.
- NOTE:**
- ALL substructure hatching may be drawn in freehand. [95]



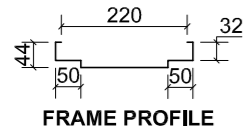


ASSESSMENT CRITERIA				
FLOOR PLAN				
1	LABELS	2		
2	ELECTRICAL	7		
3	FIXTURES	8		
4	DOORS + WINDOWS	14		
SUBTOTAL		31		
NORTH ELEVATION				
1	WALLS + FFL	4		
2	ROOF + FACIA + GUTTER + RWDP	5		
3	WINDOWS	10½		
4	LABELS	1½		
SUBTOTAL		21		
SECTIONAL ELEVATION				
1	ROOF	11		
2	WALLS + FLOOR + FOUNDATION	14½		
3	WINDOW + DOORS + FIXTURES	8		
4	HATCHING	7		
5	LABELS	2½		
SUBTOTAL		43		
TOTAL		95		
EXAMINATION NUMBER				
EXAMINATION NUMBER				6

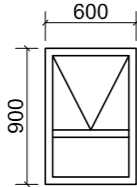


DOOR AND WINDOW SCHEDULE

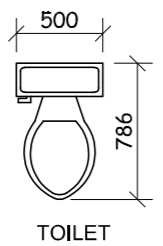
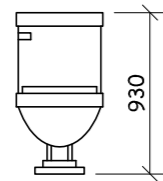
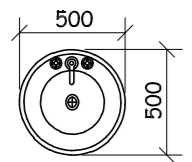
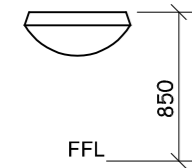
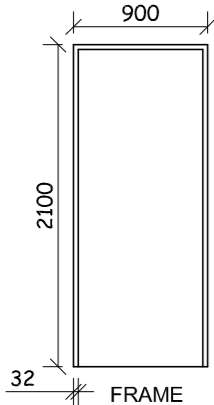
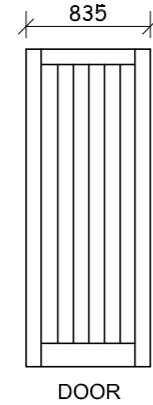
DOOR FRAME
STANDARD, EXTERNAL,
MILD STEEL



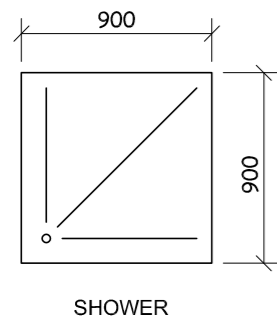
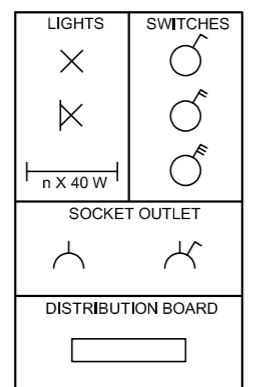
WINDOW
STANDARD W0609
TIMBER FRAME



DOOR
H/W FRAMED, LEDGED
AND BATTENED

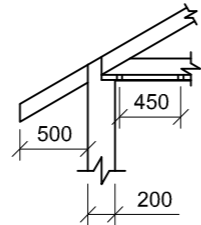


ELECTRICAL SYMBOLS

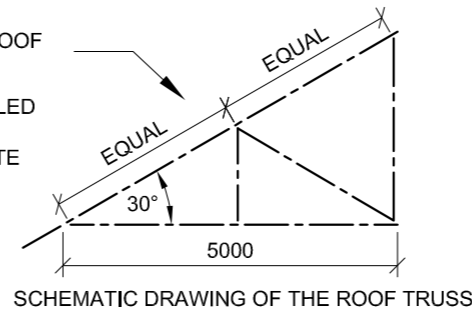


ROOF NOTE
37 x 740 IFR SHEETS LAID
ON 75 x 50 PURLINS @
1250 C/C ON 114 x 38 ROOF
TRUSSES

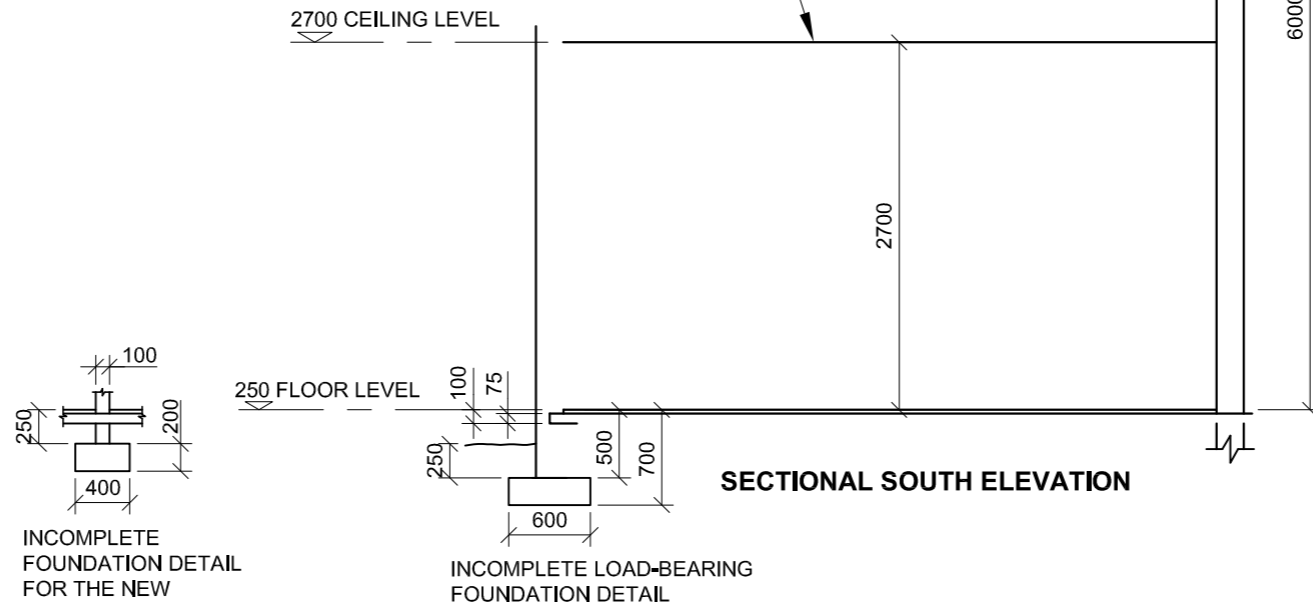
114 x 38 mm GANG-NAILED
ROOF TRUSS ON A
114 x 38 mm WALL PLATE



INCOMPLETE ROOF TRUSS,
WALL AND CEILING DETAIL



6 mm CEILING BOARD
ON 38 x 38 mm BATTENS
@ 450 mm C/C

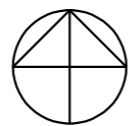


INCOMPLETE
FOUNDATION DETAIL
FOR THE NEW
INTERIOR WALLS

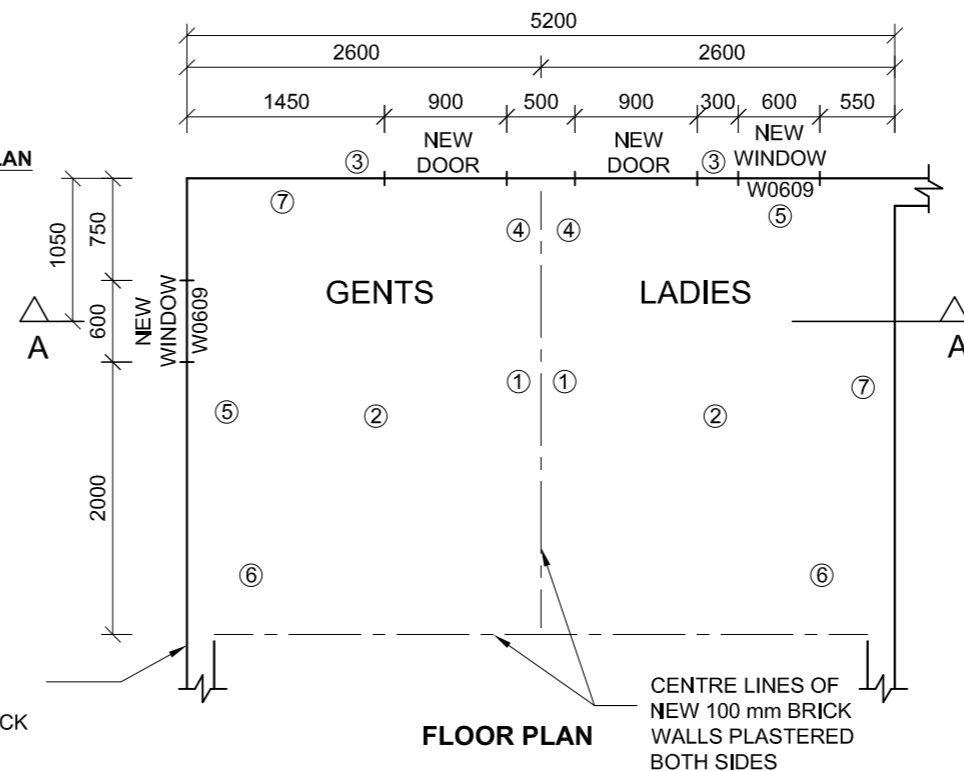
INCOMPLETE LOAD-BEARING
FOUNDATION DETAIL

KEY TO NUMBERED FEATURES ON PLAN

- DOUBLE INSULATED SWITCH
- 2 x 40 W FLUORESCENT TUBES
- OUTSIDE LIGHTS
- TWO-POLE LIGHT SWITCH
- TOILET
- SHOWER
- WASH BASIN



OUTSIDE LINE OF
EXISTING 200 mm
LOAD-BEARING BRICK
WALLS



CENTRE LINES OF
NEW 100 mm BRICK
WALLS PLASTERED
BOTH SIDES

QUESTION 4: CIVIL DRAWING

Given:

- The incomplete sectional south elevation of a part of an previous extension to a clubhouse showing the outside line of the existing outer wall, the incomplete load-bearing foundation detail, the ceiling level and an existing 200 mm load-bearing wall
- The incomplete floor plan of proposed new **ladies and gents change rooms**, that will be developed inside the given part of the previous extension, showing the outside lines of the exterior walls, the centre lines of the new interior walls, the position of all the fixtures and features, relevant notes and dimensions
- A door and window schedule
- The fixtures for the change rooms
- A table of electrical symbols
- The incomplete roof truss, wall and ceiling detail
- A schematic drawing of the roof truss, drawn to a different scale
- The incomplete foundation detail for the new interior walls

Instructions:

- Answer this question on page 6.
- Draw, to scale 1 : 50 and to the given specifications, the following views of the proposed new **ladies and gents change rooms**:
 - The complete floor plan
 - The complete sectional south elevation on cutting plane A-A
- ALL drawings must comply with the guidelines contained in the SABS 0143.

SPECIFICATIONS:

THE FLOOR PLAN

Show the following features on the drawing:

- ALL the walls with hatching detail
- ALL the doors and windows
- The conventions of ALL the fixtures as indicated with the numbers
- ALL the electrical features as indicated with the numbers. Each change room's outside light and florescent tubes must be connected to the two-pole light switch.
- The cutting plane A-A

THE SECTIONAL SOUTH ELEVATION

Show the following features on the drawing:

- The complete foundation, floor, wall, window, ceiling and roof detail. The window must have two lintels.
- The doors and window to the north of cutting plane A-A
- The conventions of the fixtures to the north of cutting plane A-A
- ALL hatching detail

Label the following:

- The floor plan, including the scale
- The sectional south elevation
- The change rooms and floor finish (ceramic tiles)

NOTE:

ALL substructure hatching may be drawn in freehand

[97]



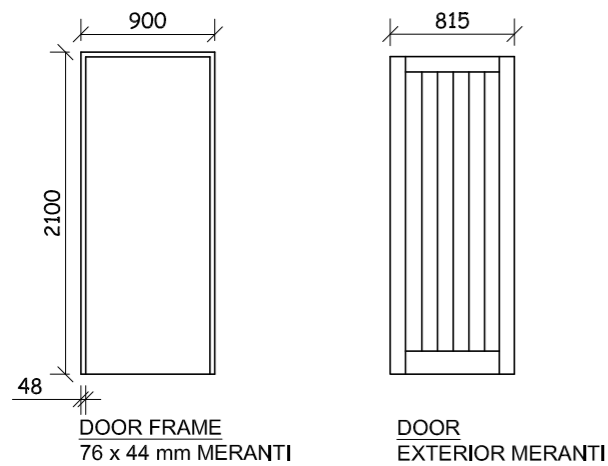
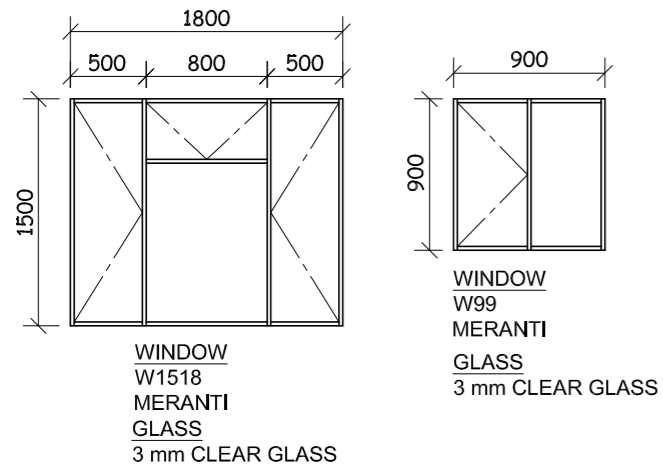


ASSESSMENT CRITERIA				
SECTIONAL SOUTH ELEVATION				
	POSSIBLE	OBTAINED	SIGN	MODERATE
1. WALLS + HATCHING	16			
2. WINDOWS + DOORS	10			
3. FIXTURES	5			
4. ROOF + CEILING	15			
5. LABELS	1			
SUBTOTAL	47			
FLOOR PLAN				
1. WALLS + HATCHING	12			
2. WINDOWS + DOORS	9			
3. FEATURES	11			
4. ELECTRIC	10			
5. LABELS	6			
6. CUTTING PLANE A-A	2			
SUBTOTAL	50			
TOTAL	97			

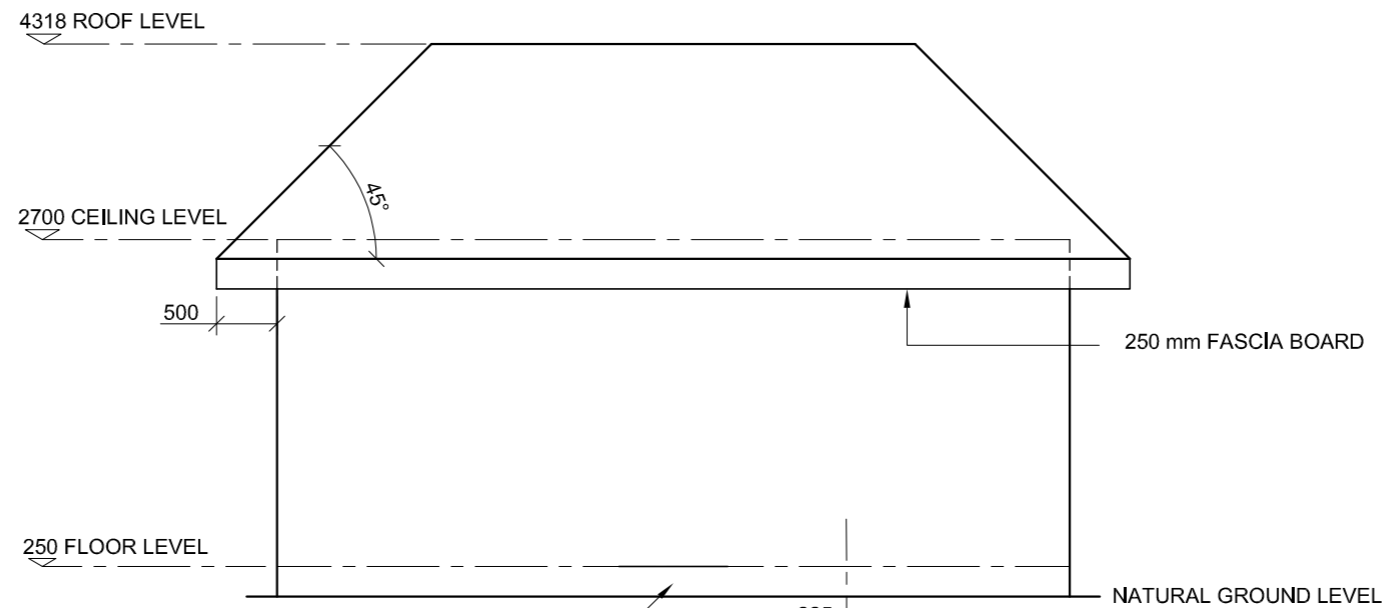
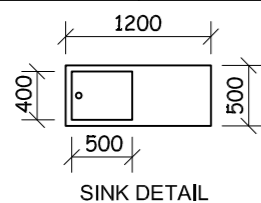
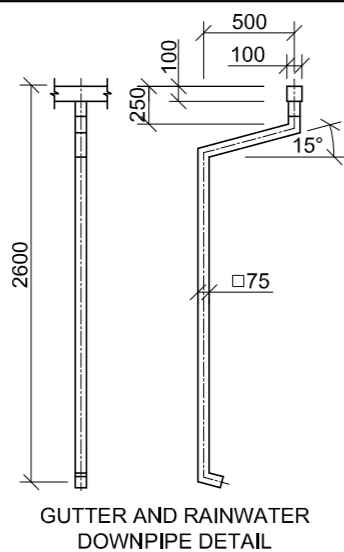
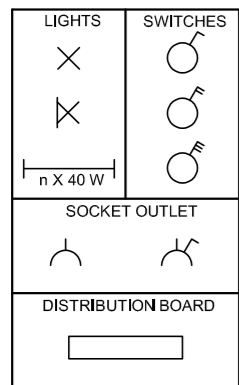
EXAMINATION NUMBER	
EXAMINATION NUMBER	6



DOOR AND WINDOW SCHEDULE

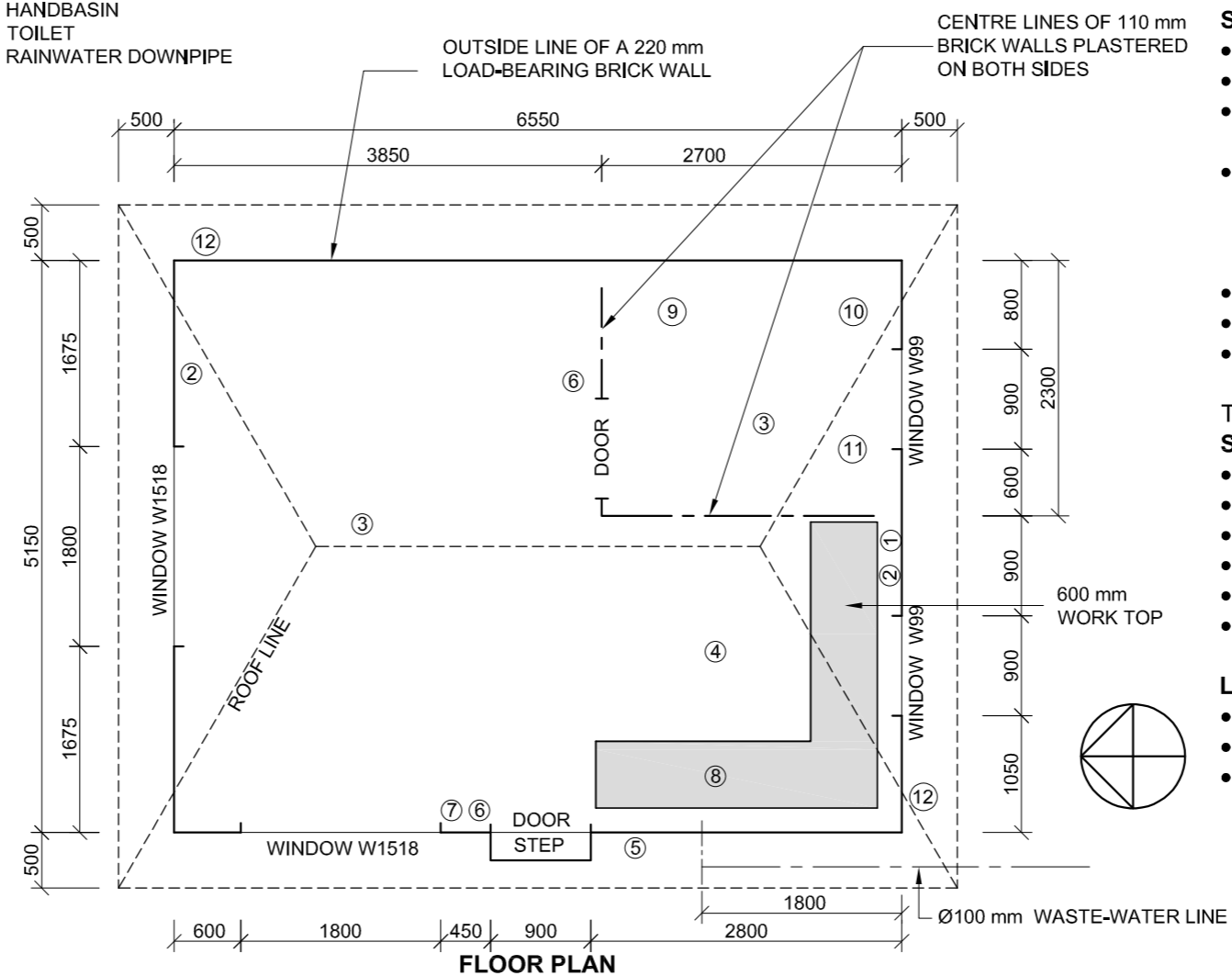


ELECTRICAL SYMBOLS



KEY TO NUMBERED FEATURES ON PLAN

1. DISTRIBUTION BOARD
2. SWITCH SOCKET OUTLET
3. LIGHTS
4. 2 x 40 W FLUORESCENT TUBES
5. OUTSIDE LIGHT
6. ONE-POLE LIGHT SWITCH
7. TWO-POLE LIGHT SWITCH
8. SINK
9. SHOWER
10. HANDBASIN
11. TOILET
12. RAINWATER DOWNPIPE



QUESTION 4: CIVIL DRAWING

Given:

- The incomplete west elevation of a new **granny flat** showing the outlines of the walls and roof, as well as the position of the kitchen's waste-water disposal system
- The incomplete floor plan of the new **granny flat** showing the outside lines of the exterior walls, the centre lines of the interior walls, the position of all the features, relevant notes and dimensions
- A door and window schedule
- A table of electrical symbols
- A detailed drawing of the gutter and the rainwater downpipe
- A detailed drawing of the sink

Instructions:

- Answer this question on page 6.
- Draw, to scale 1 : 50 and the given specifications:
 - 4.1 The complete floor plan**
 - 4.2 The complete west elevation**
- ALL drawings must comply with the guidelines contained in the *SABS 0143*.

SPECIFICATIONS:

THE FLOOR PLAN

Show the following features on the drawing:

- ALL the walls with hatching detail
- The doors, step and windows
- The conventions of ALL the bathroom fixtures as indicated with numbers on the incomplete floor plan
- ALL the electrical features as indicated with numbers on the incomplete floor plan. The light in the living area and the fluorescent tubes in the kitchen must be connected to the two-pole light switch.
- The work top and the sink detail
- The waste-water disposal system for the kitchen
- The roof line

THE WEST ELEVATION

Show the following features on the drawing:

- The outlines of the walls and roof
- The door, step and window
- The finished floor level
- The gutter
- Rainwater downpipes
- The waste-water disposal system for the kitchen

Label the following:

- The floor plan, including the scale
- The west elevation
- Using the correct abbreviations, label the following features on the correct view: finished floor level, sink, the fall of the waste-water line, inspection eye, bathroom designation and floor finish (ceramic tiles).

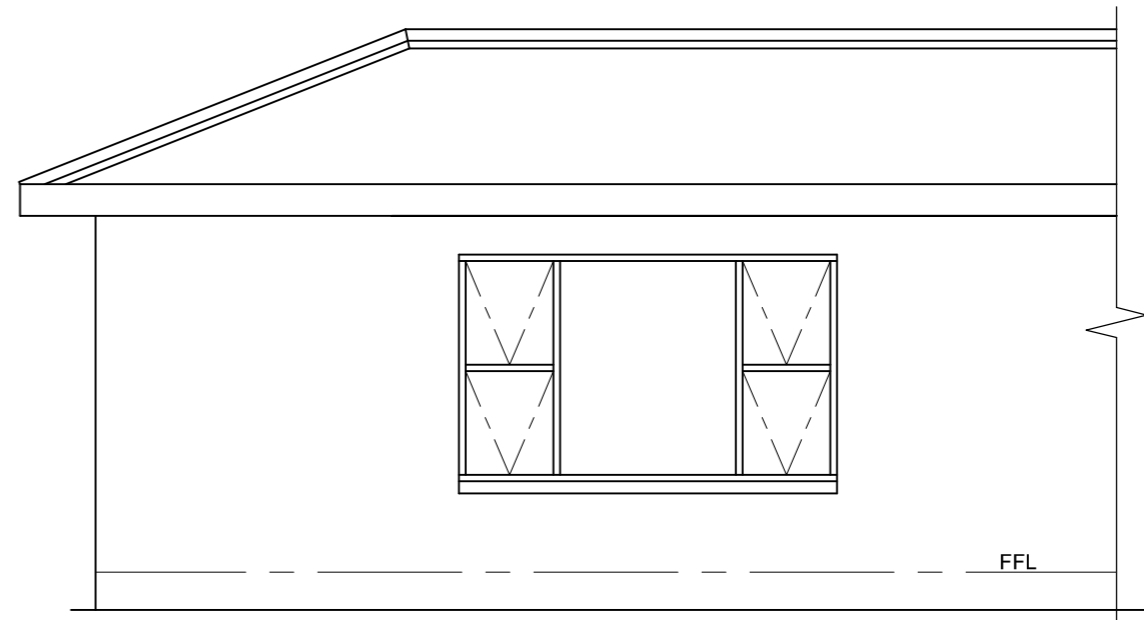


ASSESSMENT CRITERIA				
WEST ELEVATION				
	POSSIBLE	OBTAINED	SIGN	MODERATE
1. ROOF + FASCIA	5			
2. GUTTER + RWDP	6			
3. WALLS + FFL	3½			
4. WINDOWS + DOOR + STEP	13½			
5. WASTE-WATER	2			
6. LABELS	4			
SUBTOTAL	34			
FLOOR PLAN				
1. ROOF	4½			
2. WALLS	6½			
3. WINDOW + DOOR + STEP	16			
4. KITCHEN + BATHROOM	11½			
5. ELECTRIC	12			
6. WASTE-WATER	2			
7. HATCHING	4½			
8. LABELS	6			
SUBTOTAL	63			
TOTAL	97			

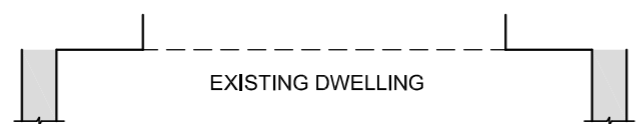
EXAMINATION NUMBER	
EXAMINATION NUMBER	6



STAPLE






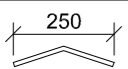
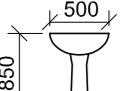
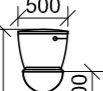
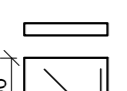
NORTH ELEVATION



ASSESSMENT CRITERIA					
SECTIONAL WEST ELEVATION					
		POSSIBLE	OBTAINED	SIGN	MODERATE
1	ROOF + CEILING	24½			
2	WINDOW + DOOR	14			
4	WALLS + FLOOR + FOUNDATION	11½			
5	HATCHING	5½			
6	LABELS	3½			
SUBTOTAL		59			
FLOOR PLAN					
1	ROOF	4			
2	WINDOWS + DOOR	7			
3	WALLS	9			
4	ELECTRICAL	8½			
5	HATCHING	3½			
6	LABELS + A-A	6			
SUBTOTAL		38			
TOTAL		97			
EXAMINATION NUMBER					
EXAMINATION NUMBER					
6					

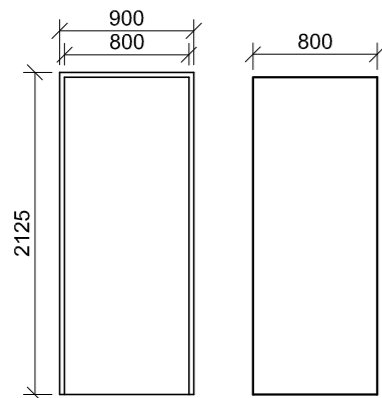


SCHEDULE OF COMPONENTS

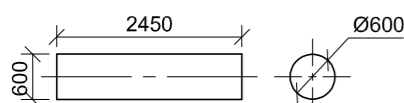
ROOF COMPONENTS	
	75 x 50 PURLINS
	200 x 18 FASCIA BOARD
	115 x 38 WALL PLATE
	ROOF CAP
FIXTURES	
	a - WASH BASIN
	b - WC
	c - SHOWER

DOOR SCHEDULE

DOOR
1 x STANDARD-SIZED DOOR



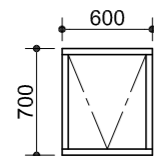
STEEL DOOR FRAME SECTION



ROLL-UP GARAGE DOOR

WINDOW SCHEDULE

WINDOW
1 x STANDARD D1-SIZED STEEL FRAME



LIST OF FEATURES

- 200 mm LOAD-BEARING WALL
- 100 mm INTERNAL WALL WITH A 400 x 200 mm BRICK PILLAR
- WINDOW OPENING
- DOOR OPENING
- 100 x 1800 mm HIGH SHOWER WALL
- GARAGE DOOR OPENING









FIXTURES

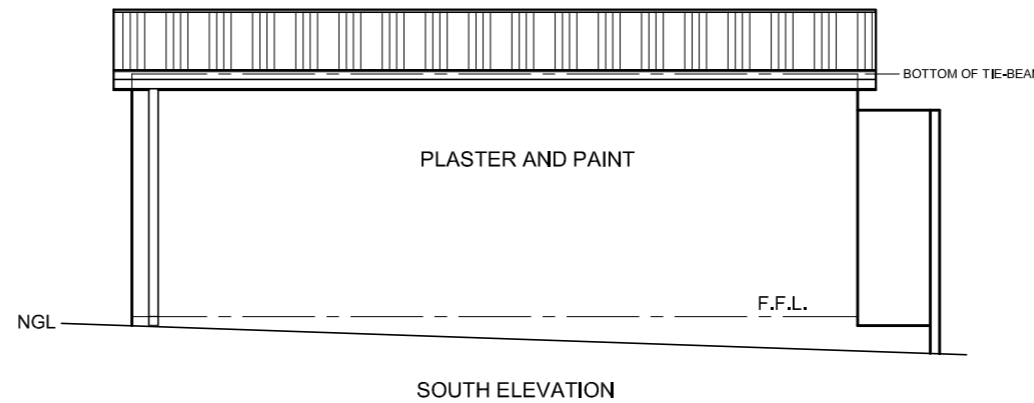
- a. WASH BASIN
- b. TOILET
- c. SHOWER

ELECTRICAL FEATURES

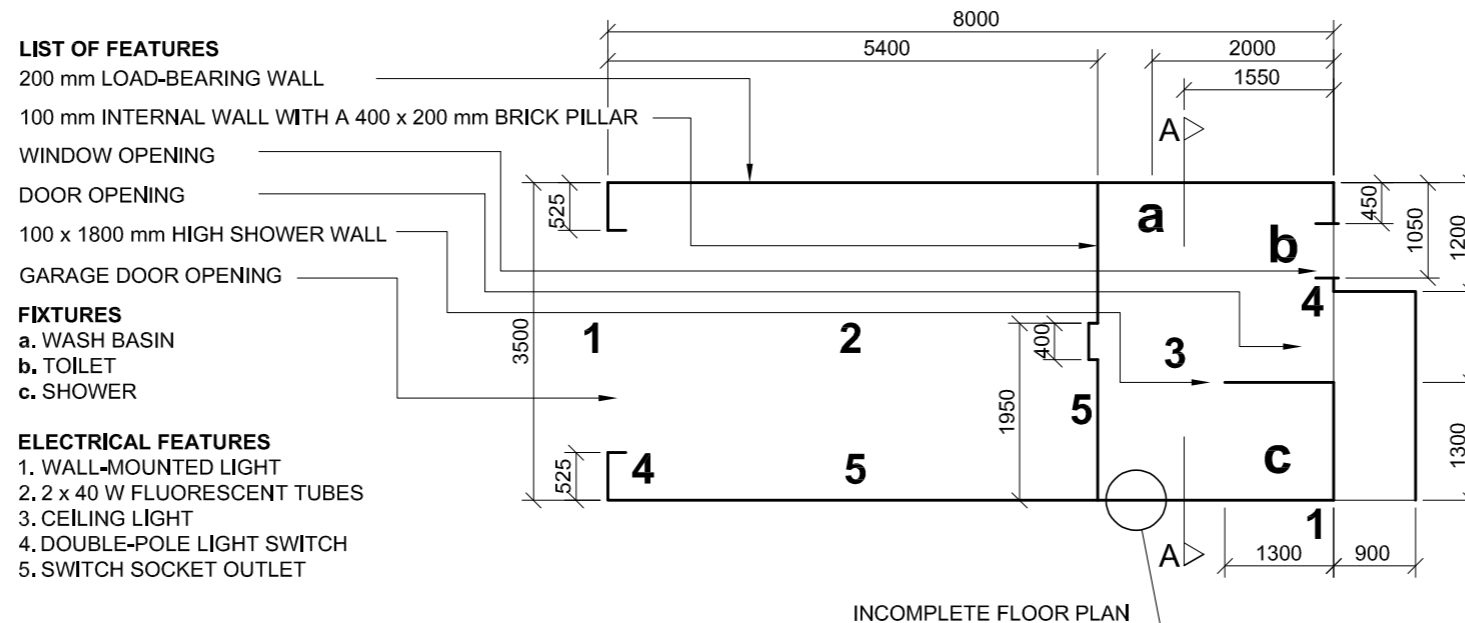
1. WALL-MOUNTED LIGHT
2. 2 x 40 W FLUORESCENT TUBES
3. CEILING LIGHT
4. DOUBLE-POLE LIGHT SWITCH
5. SWITCH SOCKET OUTLET

ELECTRICAL SYMBOLS

LIGHTS	SWITCHES
	
	
	
SOCKET OUTLETS	
	



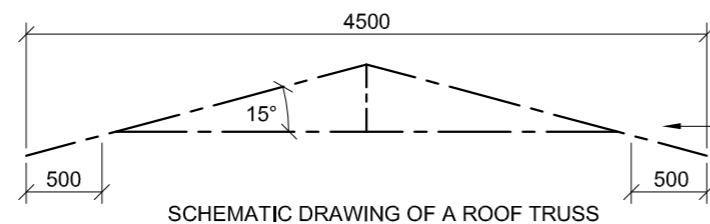
SOUTH ELEVATION



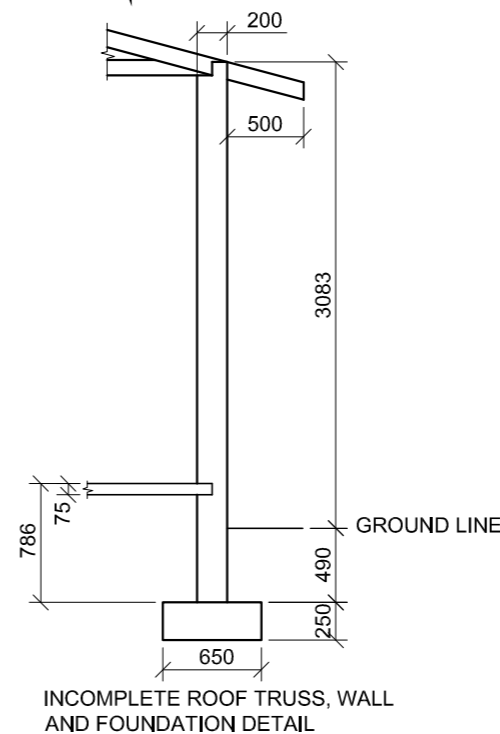
INCOMPLETE FLOOR PLAN

ROOF NOTE

37 x 740 IBR SHEETS LAID ON 75 x 50 PURLINS @ 1100 C/C ON 115 x 38 ROOF TRUSSES WITH 100 x 100 BOX GUTTERS ON 200 x 18 FASCIA BOARDS



SCHMATIC DRAWING OF A ROOF TRUSS



INCOMPLETE ROOF TRUSS, WALL AND FOUNDATION DETAIL

QUESTION 4: CIVIL DRAWING

Given:

- The complete south elevation of a proposed **free-standing garage with a bathroom** showing the walls and the visible features
- An incomplete floor plan of the proposed **free-standing garage with a bathroom** showing the outline of the walls, the positions of all the features with notes and dimensions
- A schedule of the components
- A table with electrical symbols
- A schematic drawing of a roof truss
- The incomplete roof truss, wall and foundation detail
- The complete south elevation of the proposed new garage with bathroom, drawn to scale, on page 6

Instructions:

- Answer this question on page 6
- Using the given south elevation as a guide, draw, to scale 1:50 and according to the given specifications:
 - 4.1 The complete floor plan**
 - 4.2 The complete sectional elevation** on cutting plane A-A
- ALL drawings must comply with the guidelines contained in the SABS 0143.

SPECIFICATIONS:

THE FLOOR PLAN

Show the following features on the drawing:

- ALL the walls with hatching detail
- The bathroom door, garage door and the window
- ALL the electrical features as indicated with numbers on the incomplete floor plan
- ALL the sanitary fixtures as indicated with letters on the incomplete floor plan
- The cutting plane A-A

THE SECTIONAL ELEVATION

Show the following features on the drawing:

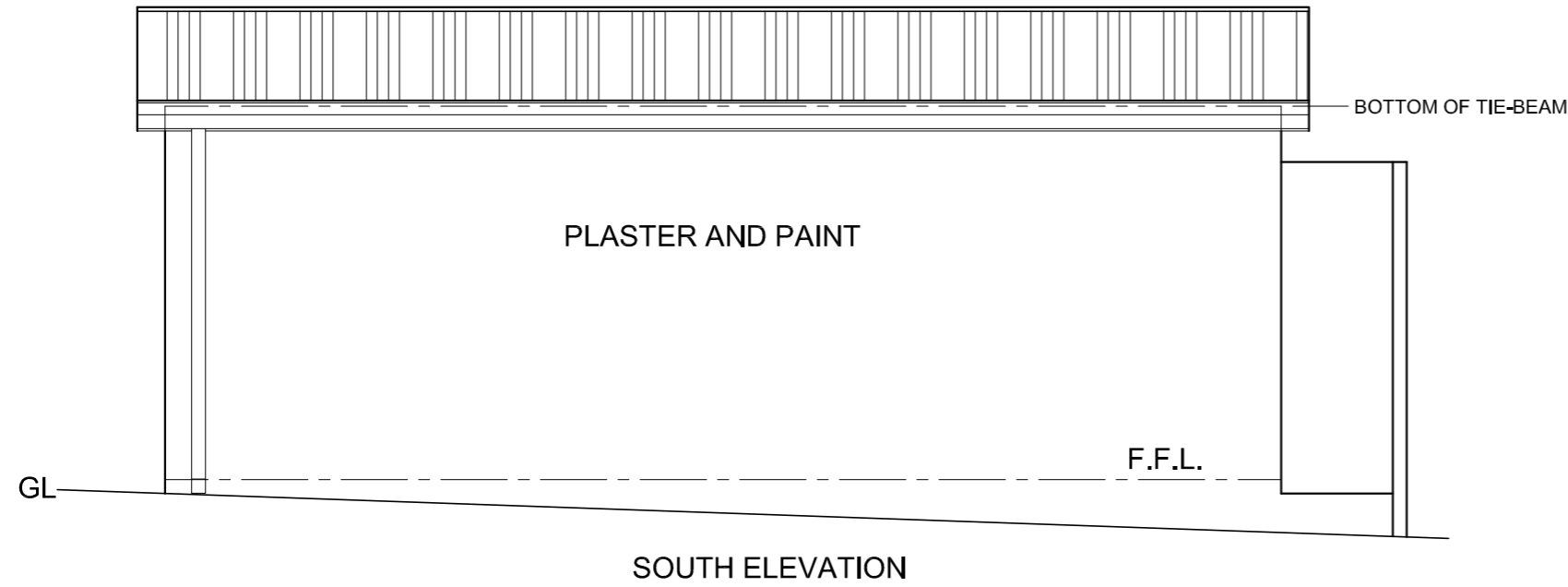
- The complete foundation, wall, slab and roof truss detail
- The door and window detail
- The WC and shower detail
- ALL hatching detail

Label the following:

- The floor plan including the scale
- The sectional elevation
- Using the correct abbreviations, label the following features on the correct view: natural ground level, damp-proof course, room designations (garage and bathroom) and floor finishes (grano in the garage and ceramic tiles in the bathroom)

NOTE:

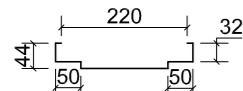
ALL substructure hatching may be drawn in freehand. [90]



ASSESSMENT CRITERIA				
PLAN				
	POSSIBLE	OBTAINED	SIGN	MODERATE
1 CORRECT SCALE	1			
2 WALLS + HATCHING	17½			
3 WINDOW + DOORS	7			
4 FIXTURES	5			
5 ELECTRICAL	10			
6 LABELS + C'PLANE	5			
SECTIONAL ELEVATION				
1 CORRECT SCALE	1			
2 WALLS + FOUNDATION + HATCHING	19			
3 WINDOW + DOORS	8			
4 FIXTURES	3			
5 ROOF	10½			
6 LABELS	3			
TOTAL	90			
EXAMINATION NUMBER				
EXAMINATION NUMBER				
EXAMINATION NUMBER				6

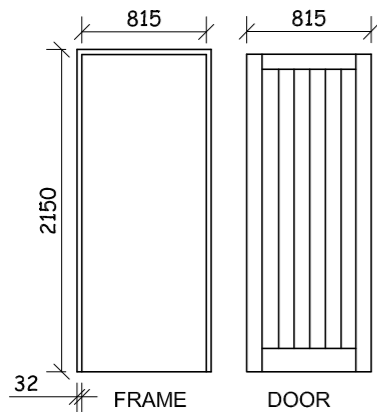
FEATURE SCHEDULE

DOOR FRAME
STANDARD, EXTERNAL,
MILD STEEL

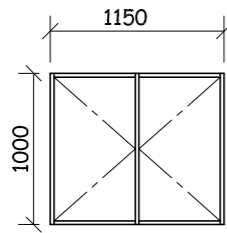


FRAME PROFILE

DOOR
H/W FRAMED, LEDGED
AND BATTENED

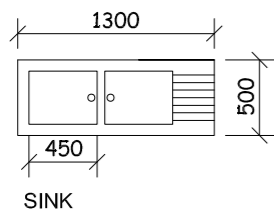


WINDOW
STANDARD C2 TIMBER
FRAME



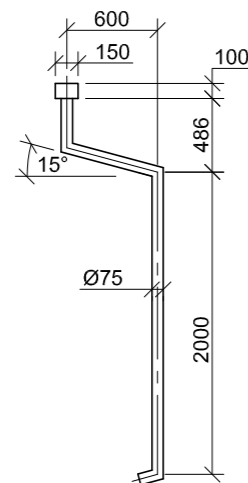
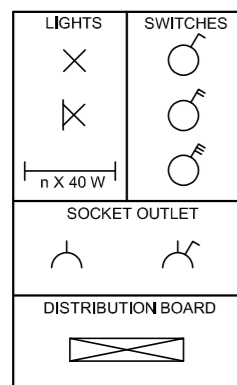
KEY TO NUMBERED FEATURES

1. DISTRIBUTION BOARD
2. SWITCHED SOCKET OUTLET
3. FLOURESCENT LIGHT FITTING (3 x 40 W TUBES)
4. OUTSIDE LIGHT FITTINGS
5. LIGHT SWITCH
6. SINK
7. RAINWATER DOWNPIPE

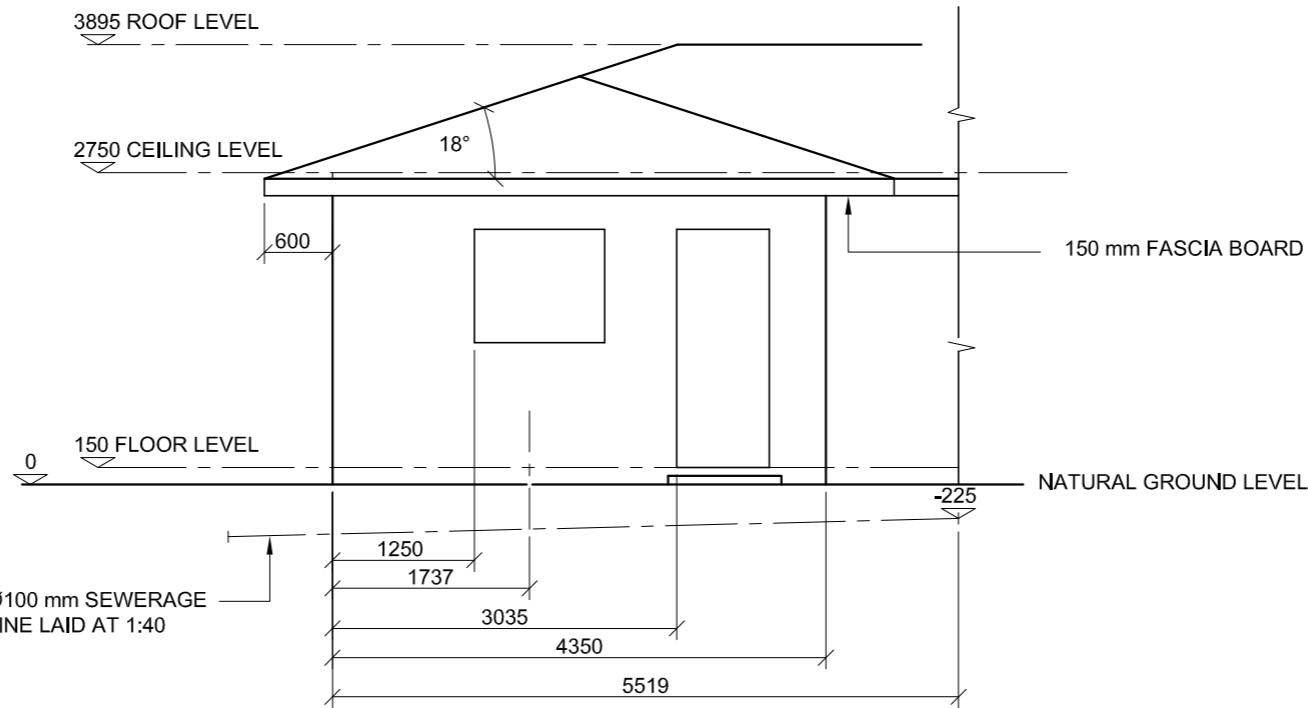


SINK

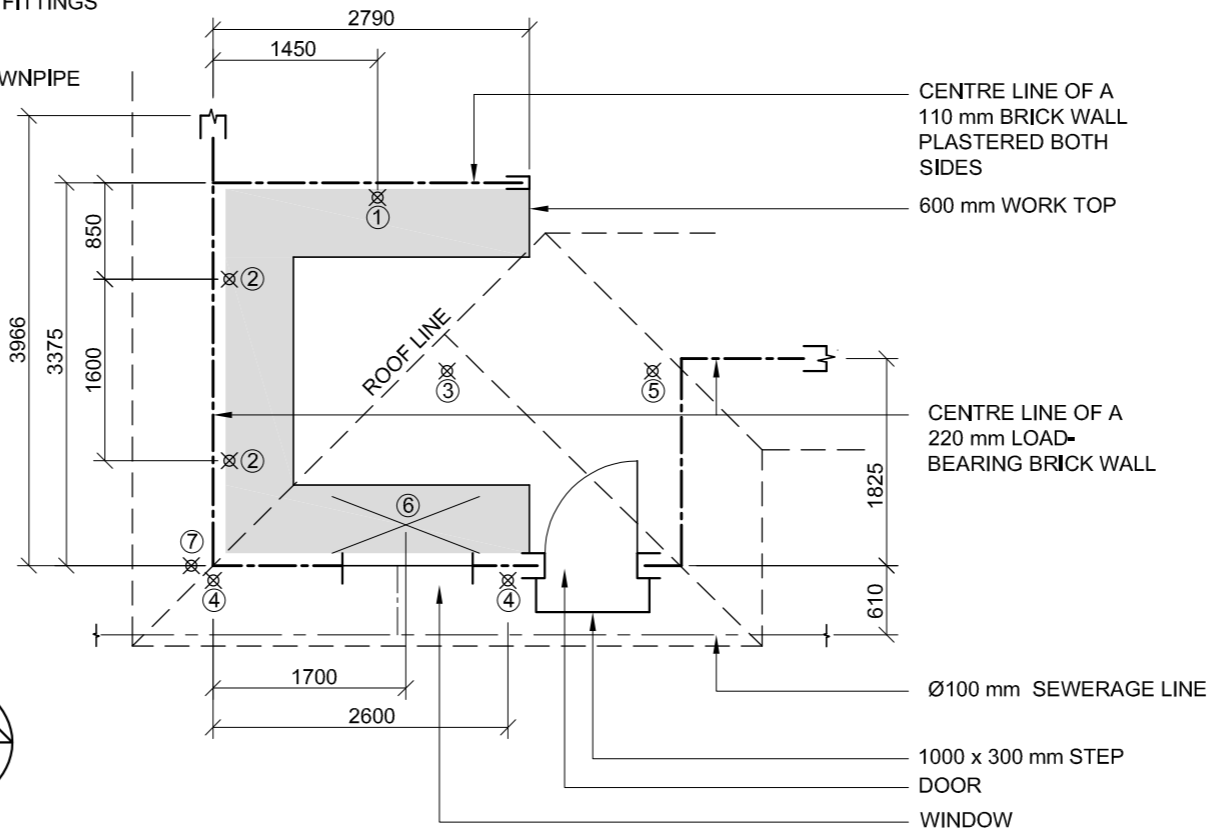
ELECTRICAL LEGEND



GUTTER AND RAINWATER DOWNPIPE DETAIL



Ø100 mm SEWERAGE LINE LAID AT 1:40



QUESTION 4: CIVIL DRAWING

Given:

- A schematic floor plan of a **kitchen** showing the centre lines of the walls with dimensions, the positions of all the features and notes.
- The incomplete south elevation of the **kitchen** showing the outside lines of the walls and the positions of some of the features.
- A schedule of features.
- A detailed drawing of the sink.
- A detailed drawing of the gutter and rainwater downpipe.
- A legend of electrical symbols.

Instructions:

- Answer this question on ANSWER SHEET 4 on page 6.
- Draw to scale 1:50 the complete floor plan and complete southern elevation of the kitchen to the given specifications.
- ALL drawing must comply with the guidelines contained in the SABS 0143.

SPECIFICATIONS:

THE FLOOR PLAN

Add the following features as indicated:

- ALL the walls with hatching detail
- The step
- The door and the window detail
- The distribution board
- ALL lights connected to ONE two pole light switch
- TWO outside lights and ONE flourescent light
- TWO switched socket outlets
- The work surfaces and the sink
- The waste-water disposal system (sewerage)
- The roof line

THE SOUTH ELEVATION

Add the following features as indicated:

- The complete wall and roof detail
- The step 75 mm high
- The door and complete window detail
- The gutter
- Rainwater downpipe detail on the west side of the building ONLY
- The waste-water disposal system (sewerage)

Label the following:

- The floor plan and include the scale
- The elevation
- Using the correct abbreviations, label the following features on the correct view: natural ground level, finished floor level, rainwater downpipe (RWDP), sink, waste-water disposal system, inspection eye, room designation and floor finish (ceramic tiles). **[97]**



ANSWER SHEET 4



ASSESSMENT CRITERIA

ELEVATION	POSSIBLE	OBTAINED
1 ROOF	4	
2 GUTTER / FACIA	7½	
3 WINDOW / DOOR	11	
4 WALLS / FFL / STEP	8½	
5 WASTE PIPES	3	
6 LABELS	6	
PLAN	POSSIBLE	OBTAINED
1 ROOF	4	
2 ELECTRICAL	9	
3 WINDOW / DOOR	7½	
4 WALLS / STEP	14	
5 WASTE PIPES / RWDP	5	
6 SINK / WORK AREA	6	
HATCHING	5½	
LABELS	6	
TOTAL	97	

EXAMINATION NUMBER

EXAMINATION NUMBER

6

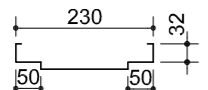




DOOR AND WINDOW SCHEDULE

PROPOSED NEW TV ROOM ON ERF 329 EAST LONDON	DRAWING NUMBER DOE 2-08	DOOR DEN 7 SIDE ROAD EAST LONDON 043 708 5555
---------------------------------------------	-------------------------	--------------------------------------------------------

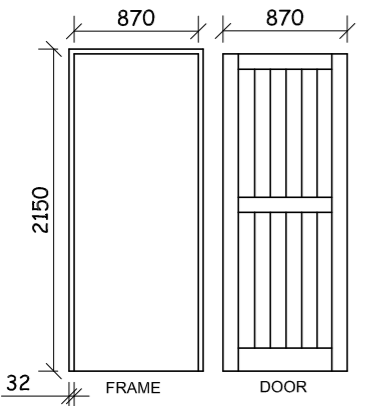
DOOR FRAME
STANDARD, EXTERNAL,
MILD STEEL



FRAME PROFILE

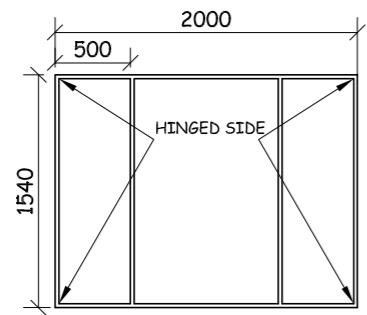
DOOR
H/W FRAMED, LEDGED
AND BATTENED

IRONMONGERY
1 PAIR 75 mm BOLTS and
HINGES
TWO-LEVER LOCKSET

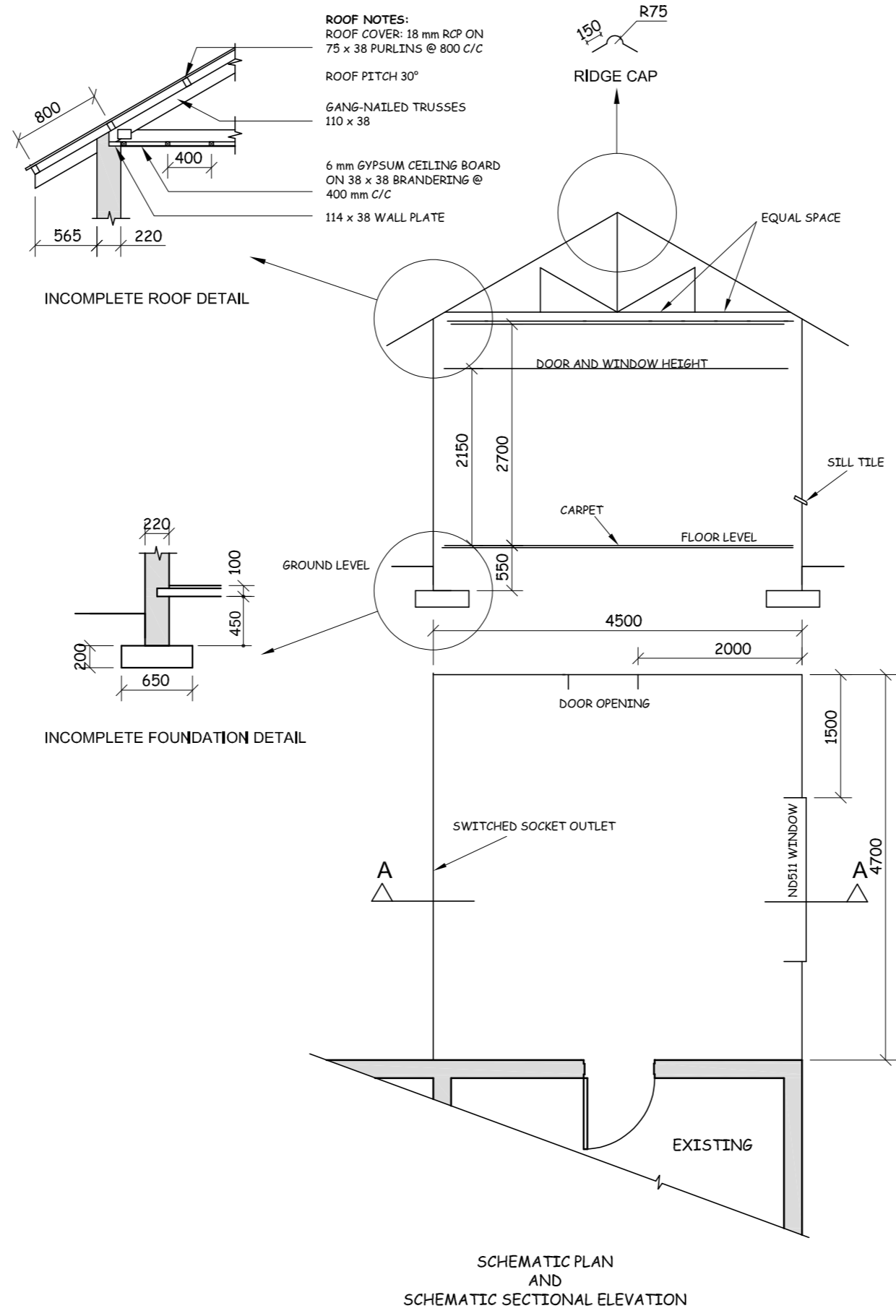
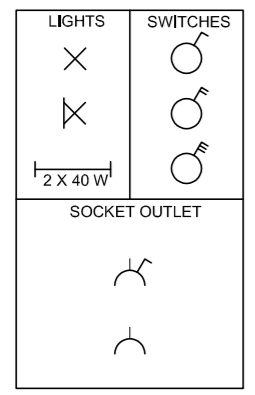


WINDOW
STANDARD, MILD STEEL,
ND 511

GLAZING
3 mm CLEAR GLASS



ELECTRICAL LEGEND



QUESTION 4: CIVIL DRAWING

Given:

- A schematic floor plan and schematic sectional elevation of the outer perimeter of a **proposed new TV room** to an existing dwelling, and the position of all the features.
- A door and incomplete window schedule.
- Sketches of the roof and incomplete foundation detail.
- An electrical legend.

Instructions:

- Answer this question on ANSWER SHEET 4 on page 6.
- Draw, to scale 1:50, the complete floor plan and complete sectional elevation to the given specifications.
- Attach the drawing of the **proposed new TV room** to the given information on ANSWER SHEET 4.

SPECIFICATIONS:

THE FLOOR PLAN

Add the following features to the floor plan:

- ALL the walls with hatching detail
- The door and the window detail
- ONE light outside the room and near to the door and ONE light in the centre of the ceiling of the **proposed new TV room**
- A separate switch for each light
- ONE switched socket outlet in the middle of the indicated wall
- The cutting plane. Label the plane A-A.
- Label the floor plan and include the scale

A SECTIONAL ELEVATION

Add the following features to the sectional elevation:

- The complete foundation, wall, floor slab and roof detail
- The door and complete window detail
- ALL necessary hatching
- Label the sectional elevation: SECTIONAL ELEVATION A-A

NOTE:

- Label ONLY the following features and on the correct view: natural ground level, damp proof course, proposed room designation and floor finish.
- ALL substructure hatching may be done in freehand.
- ALL drawing must comply with the guidelines contained in the SABS 0143. [97]

TERMINOLOGY

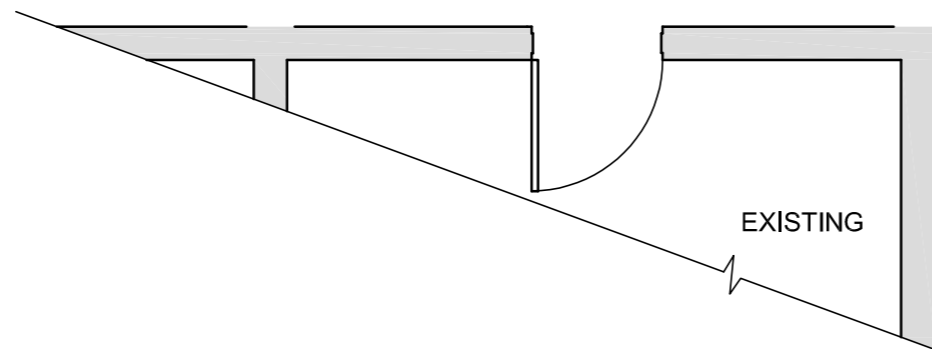
Schematic diagram: a diagram that shows the main features or relationships but not the details.

ANSWER SHEET 4



ASSESSMENT CRITERIA

	TOTAL	
	POSSIBLE	OBTAINED
FLOOR PLAN		
1 OUTLINE	5	
2 WINDOW & DOOR	7	
3 HATCHING	3	
4 LIGHTS & SWITCH & SOCKET OUTLET	8	
5 LABELS & CUTTING PLANE	8	
6 JOIN	1	
SECTIONAL ELEVATION		
7 FOUNDATION, SLAB & WALL	12	
8 HATCHING	9	
9 DOOR	3	
10 WINDOW	7	
11 ROOF TRUSS, CAP, GANGNAILS & COVER	17	
12 CEILING, PURLINS & BRANDING	12	
13 LABELS	5	
TOTAL 97		



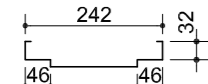
EXAMINATION NUMBER	
EXAMINATION NUMBER	6

STAPLE

DOOR SCHEDULE AND WINDOW SCHEDULE

PROPOSED NEW LAUNDRY ON STAND 354 PHOENIX MR K NAIDOO	DRAWING NUMBER DOE 1-08	D & W 7 ZIBI ROAD DURBAN 031 708 5555
-------------------------------------------------------	-------------------------	--------------------------------------------------------

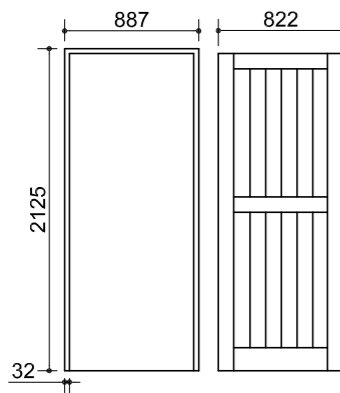
DOOR FRAME
STANDARD, EXTERNAL, MILD STEEL



FRAME PROFILE

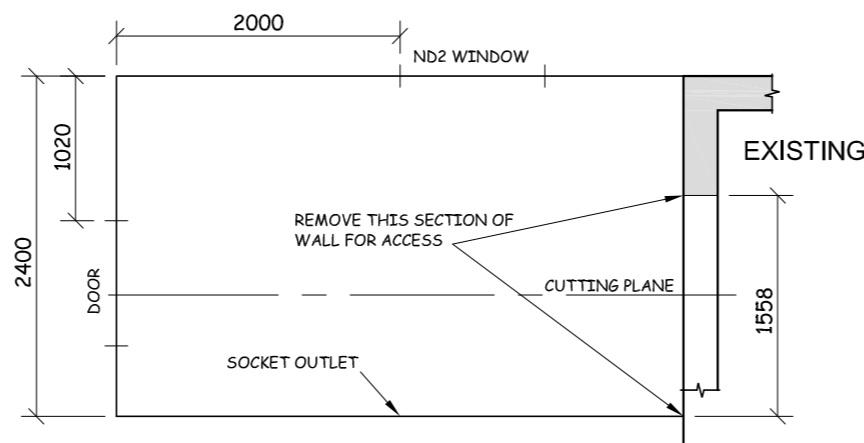
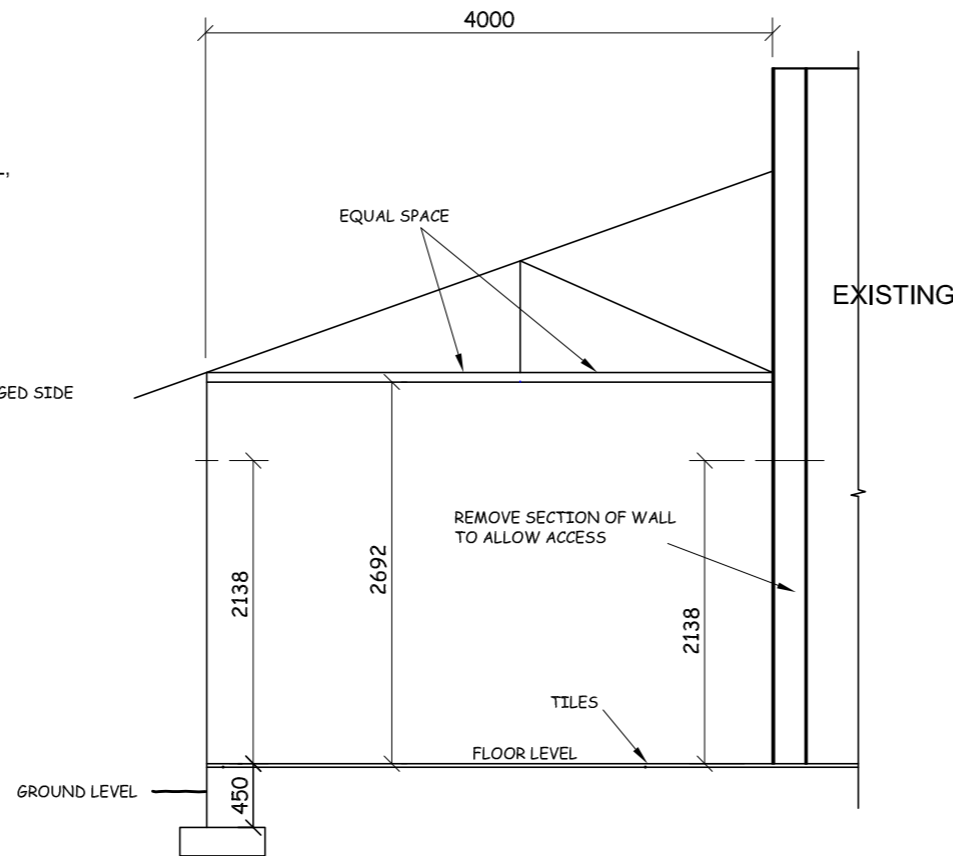
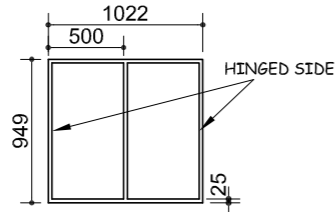
DOOR
H/W FRAMED, LEDGED AND BATTENED

IRONMONGERY
1 PAIR 75 mm BOLTS, HINGES
TWO-LEVER LOCKSET

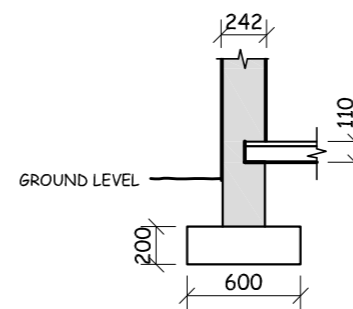


WINDOW
STANDARD, MILD STEEL, ND 2

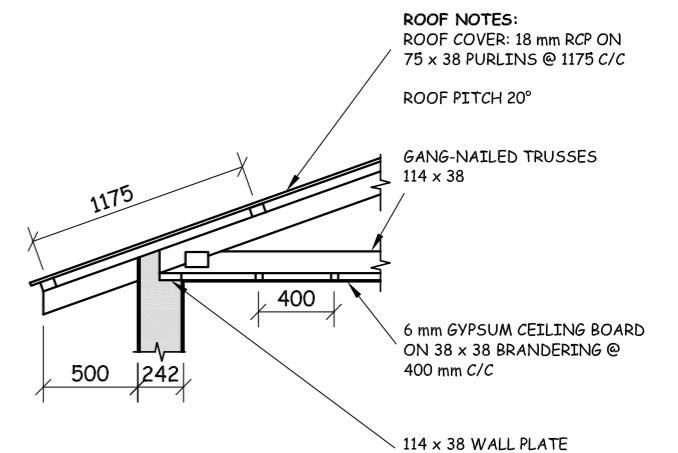
GLAZING
3 mm CLEAR GLASS



SCHEMATIC PLAN AND SCHEMATIC SECTIONAL ELEVATION



INCOMPLETE FOUNDATION DETAIL



INCOMPLETE ROOF DETAIL

QUESTION 4: CIVIL DRAWING

Given:

- A schematic floor plan and schematic elevation showing the outer perimeter of a **proposed new laundry** to an existing dwelling detailing the positions of all the features.
- A door and incomplete window schedule.
- Sketches of the roof and incomplete foundation detail.
- An electrical legend.

Instructions:

- Answer this question on ANSWER SHEET 4 on page 5.
- Draw, to scale 1:40, the complete floor plan and complete sectional elevation to the given specifications.
- Attach the drawings of the **proposed new laundry** to the given information on ANSWER SHEET 4.

Specifications:

THE FLOOR PLAN

Add the following features to the floor plan:

- ALL the walls with hatching detail
- The door and the window detail
- The removed section of the wall of the existing dwelling
- ONE light outside the door and a single TWO, 40 watt fluorescent tube fitting in the centre of the ceiling of the laundry
- ONE switch for both lights
- ONE switched socket outlet in the middle of the indicated wall
- The cutting plane. Label the plane A-A
- Label the floor plan and include the scale

THE SECTIONAL ELEVATION

Add the following features to the sectional elevation:

- The complete foundation, wall, floor slab and roof detail
- The door and complete window detail
- The removed section of the wall of the existing dwelling
- ALL necessary hatching
- Label the sectional elevation: SECTIONAL ELEVATION ON A-A

Note:

- Label ONLY the following features on the correct view: natural ground level, damp proof course, window code, room designation and floor finish.
- ALL drawing must comply with the guidelines contained in the SABS 0143.

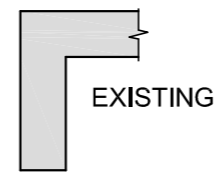
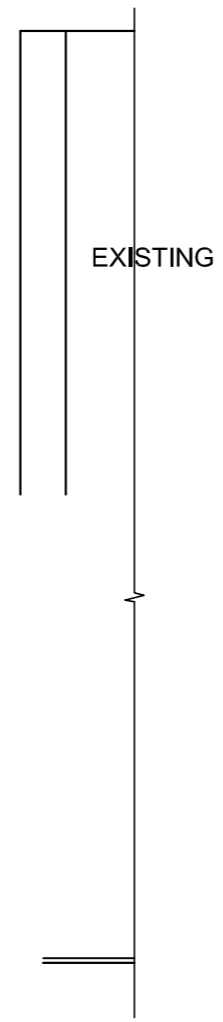
[95]

ELECTRICAL LEGEND

LIGHTS 	SWITCHES
SOCKET OUTLET 	

ANSWER SHEET 4

STAPLE



ASSESSMENT CRITERIA

	TOTAL	
	POSSIBLE	OBTAINED
FLOOR PLAN		
1 OUTLINE	9	
2 WINDOW & DOOR	9	
3 HATCHING	3	
4 LIGHTS & SWITCH & PLUG POINT	8	
5 LABELS AND CUTTING PLANE	9	
6 REMOVED WALL	2	
SECTIONAL ELEVATION		
7 FOUNDATION	2	
8 WALL & SLAB	8	
9 HATCHING	9	
10 DOOR & WINDOW	13	
11 ROOF & CEILING	17	
12 LABELS	3	
13 REMOVED WALL	3	
TOTAL 95		

EXAMINATION NUMBER	
EXAMINATION NUMBER	5