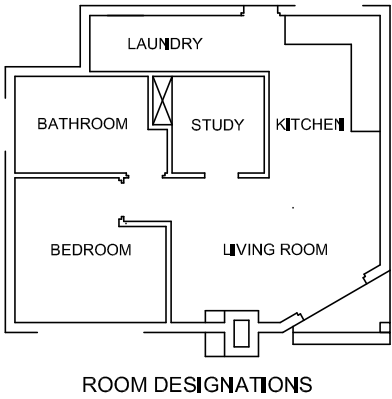
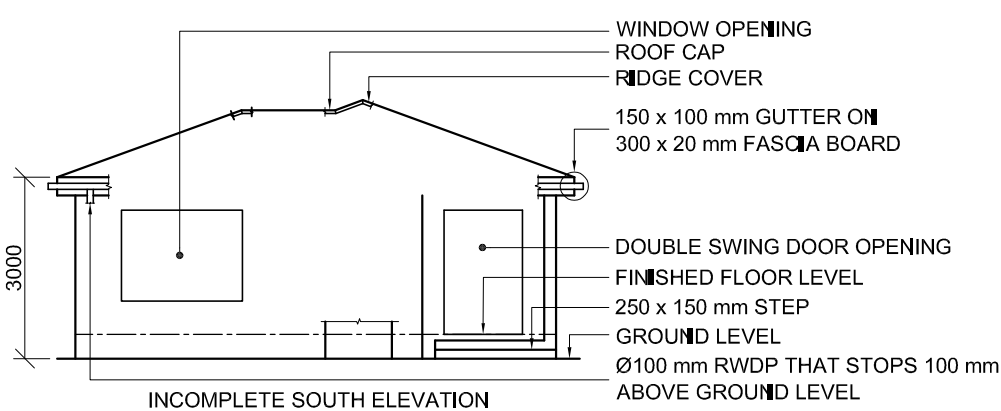


# SA-STUDENT

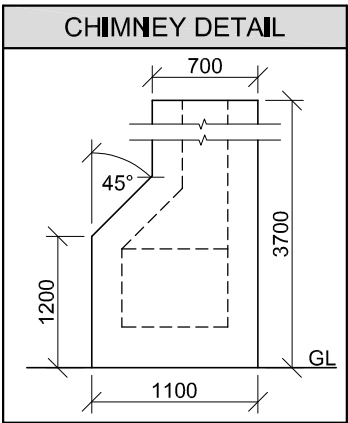
To pass high school please visit us at:  
<https://sa-student.com/>

aahh... EGD Don't You Just Love It ;)





**FLOOR FINISHES**  
LAUNDRY: TILES  
BATHROOM: TILES  
STUDY: CARPET  
KITCHEN: TILES  
BEDROOM: CARPET  
LIVING ROOM: WOOD



QUESTION 4: CIVIL DRAWING

Given:

- The incomplete south elevation of a new house, showing the walls, window and double swing door openings, step, position of the chimney, roof and labels
- The incomplete floor plan showing the walls, step, positions of the doors, windows, chimney and fixtures, as well as electrical layout
- An incomplete schematic diagram of a roof truss and roof notes
- The incomplete foundation and external wall detail
- Room designations and floor finishes
- A table with chimney detail
- A door and window schedule
- A table of electrical symbols
- A table of fixtures
- The incomplete floor plan and position of the ground level of the new house, drawn to scale 1 : 50, and the incomplete foundation and a break line for 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 and ground level, draw, 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 the roof lines
- ALL hatching detail

4.1.2 THE COMPLETE SOUTH ELEVATION

Show the following features on the drawing:

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

4.2 Using the given 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:

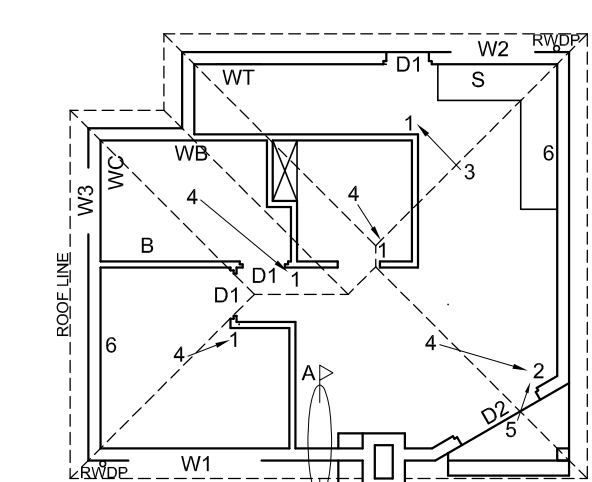
- The complete foundation and external wall detail
- The roof detail, including the fascia board and gutter
- The chimney and the double swing door and frame to the right (east) of cutting plane A-A
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

Label the following:

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

NOTE:

All drawings must comply with the guidelines and graphical symbols as contained in the SANS 10143.

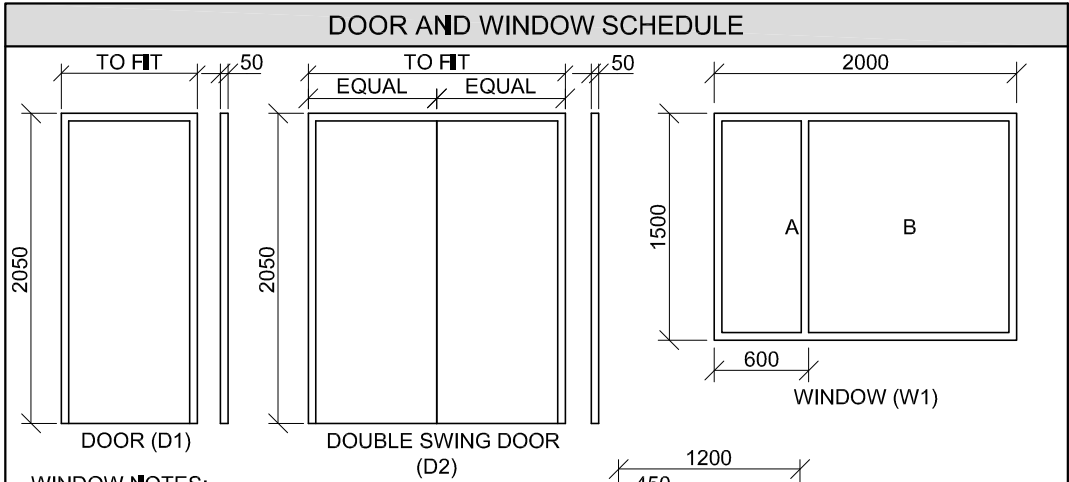


**FEATURES**  
D1 DOOR  
D2 DOUBLE SWING DOOR  
W1 WINDOW  
W2 WINDOW  
W3 WINDOW

**FIXTURES**  
WC TOILET  
WB WASH BASIN  
WT WASH TUB  
S SINK  
B BATH

**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

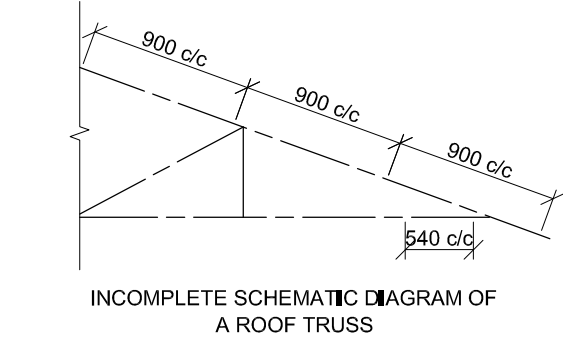
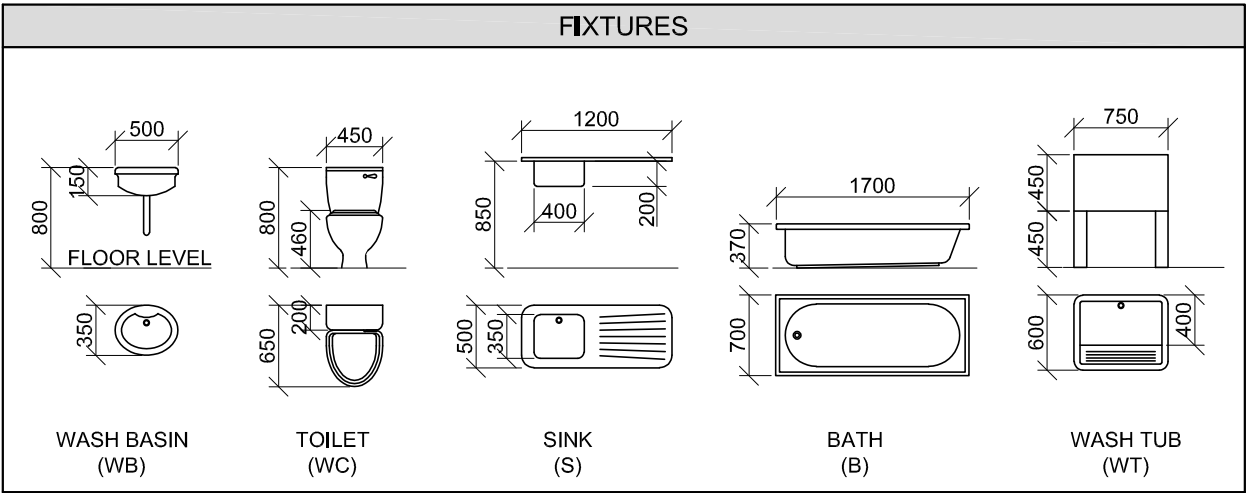
**NOTE:**  
THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



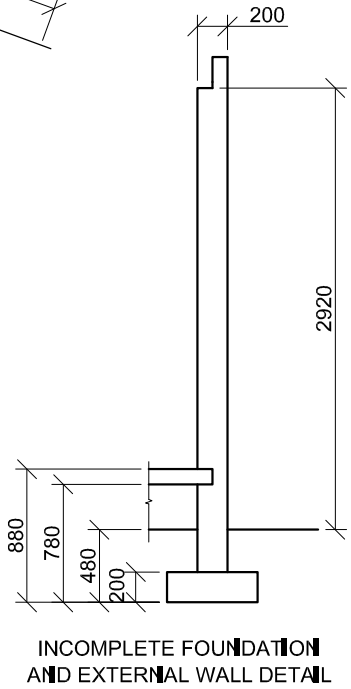
**WINDOW NOTES:**  
• A = OPENING SIDE  
• B = FIXED PANEL  
• ALL FRAMES = 50 mm  
• 150 x 20 mm FIBRE CEMENT SILL UNDER ALL WINDOWS

ELECTRICAL SYMBOLS	

ROOF COMPONENTS	
	300 x 20 mm FASCIA BOARD
	150 x 100 mm GUTTER
	ROOF CAP AND RIDGE COVER

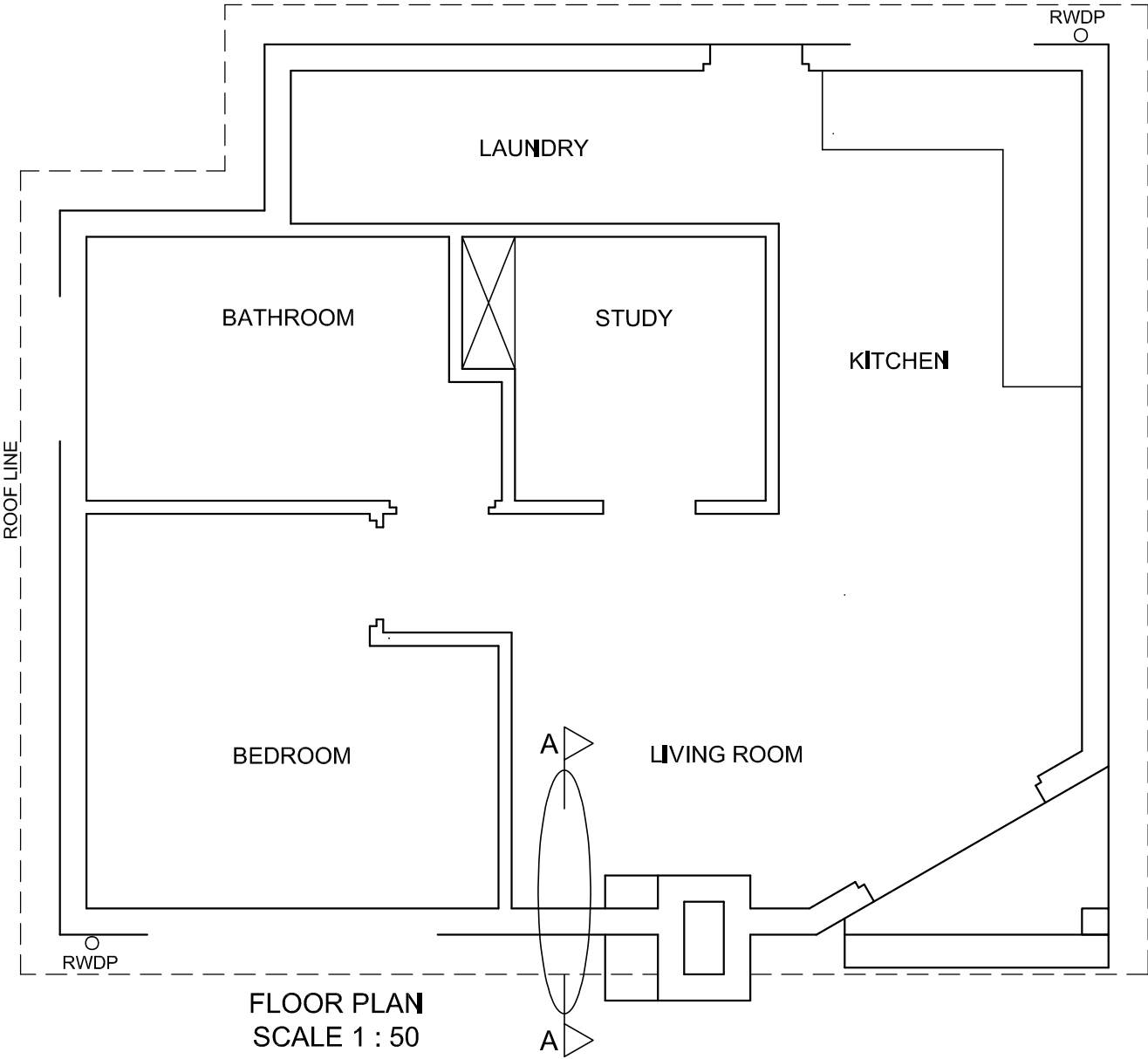


**ROOF NOTES:**  
20° ROOF PITCH  
114 x 40 mm ROOF TRUSSES ON  
114 x 40 mm WALL PLATES  
300 mm ROOF OVERHANG TO END OF ROOF TRUSS  
20 mm CORRUGATED ROOF SHEETING ON  
75 x 50 mm PURLINS @ 900 mm c/c  
300 x 20 mm FASCIA BOARDS WITH  
150 x 100 mm GUTTERS ON ALL SIDES  
10 mm CEILING BOARD ON 40 x 40 mm  
BRANDING STRIPS @ 540 mm c/c





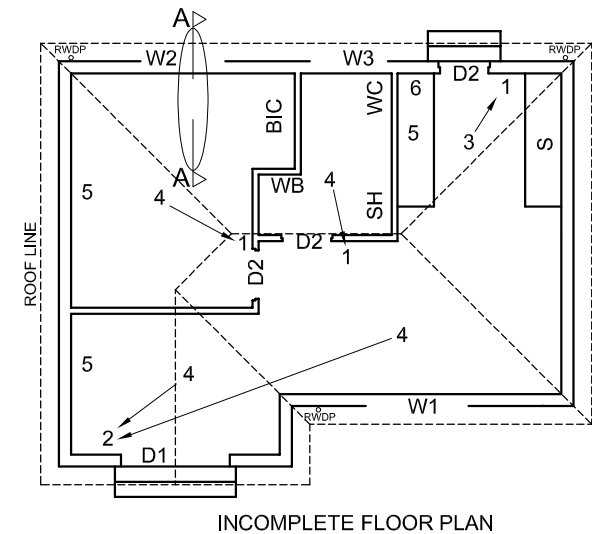
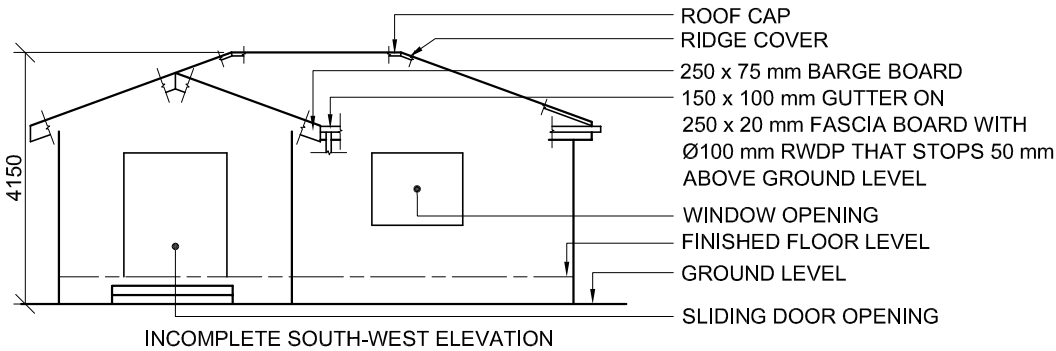
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SECTION A-A  
SCALE 1 : 20

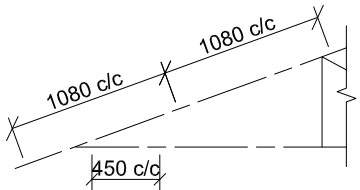
MARK ALLOCATION FOR SECTION OF ROOF		FOR OFFICIAL USE ONLY	
A		INCORRECT SCALE(S) USED	
B		NON-ALIGNMENT OF VIEWS	
C		VIEW(S) ROTATED	
D		SECTION VIEWED INCORRECTLY	
E		INCORRECT LETTERING	
F			
G			
H			
TOTAL		TOTAL	

ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATED
1	DOORS + WINDOWS	11			
2	FIXTURES + ROOF LINES	15			
3	ELECTRICAL	10			
4	HATCHING	3			
5	LABELS	3			
SUBTOTAL		42			
SOUTH ELEVATION					
1	ROOF + RWDP	8 1/2			
2	WALLS + STEP + CHIMNEY + FFL	7			
3	DOOR + WINDOW	7			
4	LABELS	1			
SUBTOTAL		23 1/2			
DETAILED SECTION					
1	ROOF DETAIL	11 1/2			
2	SLAB + WALL + CHIMNEY	8			
3	HATCHING	3 1/2			
4	DOOR	2 1/2			
5	LABELS	1			
SUBTOTAL		26 1/2			
TOTAL		92			
PENALTIES (-)					
GRAND TOTAL					
EXAMINATION NUMBER					
EXAMINATION NUMBER					6



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

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



SCHEMATIC DIAGRAM OF A SECTION OF THE ROOF TRUSS AT CUTTING PLANE A-A

**ROOF NOTES:**  
20° ROOF PITCH

114 x 40 mm ROOF TRUSSES ON 114 x 40 mm WALL PLATES

300 mm ROOF OVERHANG TO END OF ROOF TRUSS

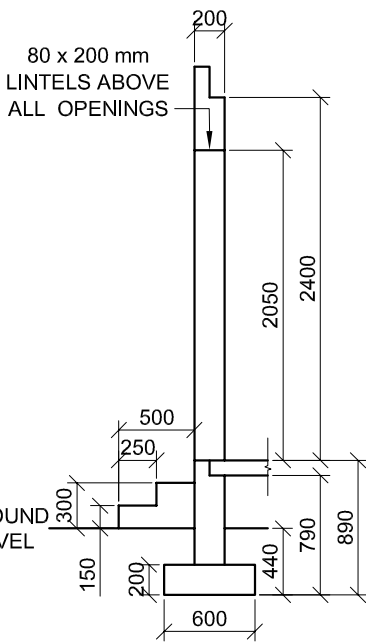
30 mm CORRUGATED ROOF SHEET ON 75 x 50 mm PURLINS @ 1080 mm c/c

250 x 75 mm FIBRE CEMENT BARGE BOARDS ON GABLE ENDS

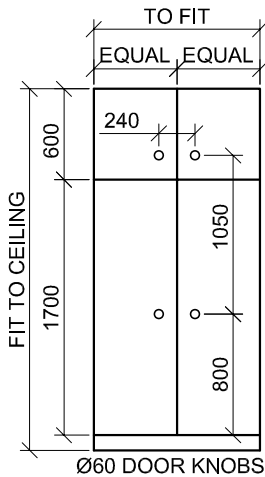
BARGE BOARDS END FLUSH WITH OUTSIDE EDGE OF GUTTERS

250 x 20 mm FASCIA BOARDS WITH 150 x 100 mm GUTTERS ON ALL SIDES

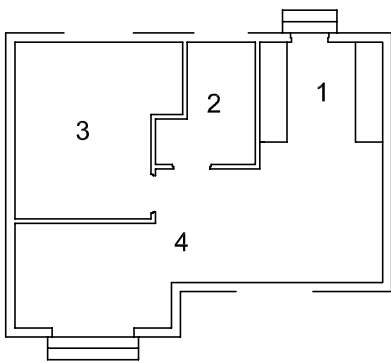
10 mm CEILING BOARD ON 40 x 40 mm BRANDERING STRIPS @ 450 mm c/c



INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL

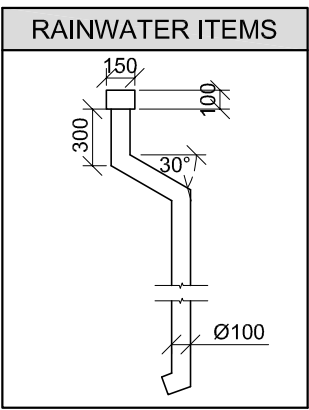


BUILT-IN CUPBOARD DETAIL



ROOM DESIGNATIONS

- FLOOR FINISHES**
- 1. KITCHEN: TILES
  - 2. BATHROOM: TILES
  - 3. BEDROOM: CARPET
  - 4. LIVING AREA: VINYL



DOOR AND WINDOW SCHEDULE			
TO FIT		TO FIT	50
SLIDING DOOR (D1)		DOOR FRAME AND DOOR (D2)	
WINDOW NOTES: <ul style="list-style-type: none"><li>A = OPENING SIDE</li><li>B = FIXED PANEL</li><li>ALL FRAMES = 50 mm</li><li>150 x 20 mm FIBRE CEMENT SILL UNDER ALL WINDOWS</li></ul>			
WINDOW (W1)		WINDOW (W2)	WINDOW (W3)

ROOF COMPONENTS		ELECTRICAL SYMBOLS	
	250 x 20 mm FASCIA BOARD		
	150 x 100 mm GUTTER		
	75 x 50 mm PURLINS		
	250 x 75 mm BARGE BOARD		
	ROOF CAP AND RIDGE COVER		

FIXTURES			
WASH BASIN (WB)	TOILET (WC)	SHOWER (SH)	SINK (S)

#### QUESTION 4: CIVIL DRAWING

**Given:**

- The incomplete south-west elevation of a **new house**, showing the walls, the window opening, the sliding door opening, the roof and labels
- The incomplete floor plan showing the walls, roof line, positions of the doors, windows and fixtures, as well as the electrical layout
- A schematic diagram of a section of a roof truss at cutting plane A-A and roof notes
- The incomplete foundation and external wall detail
- The built-in cupboard detail
- Room designations and floor finishes
- A table of rainwater items
- A door and window schedule
- A table of roof components
- A table of electrical symbols
- A table of fixtures
- The incomplete floor plan and position of the ground level of the **new house**, drawn to scale 1 : 50 and the incomplete foundation and a break line for 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 and ground level, draw 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 numbers
- ALL hatching detail

**4.1.2 THE COMPLETE SOUTH-WEST ELEVATION**

**Show the following features on the drawing:**

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

4.2 Using the given 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 complete foundation, external wall and window detail
- The roof detail, including the fascia board, gutter and rainwater items
- The steps, roof, wall and built-in cupboard detail to the right of cutting plane A-A
- ALL hatching detail. ONLY the substructure may be hatched in neat freehand.

**Label the following:**

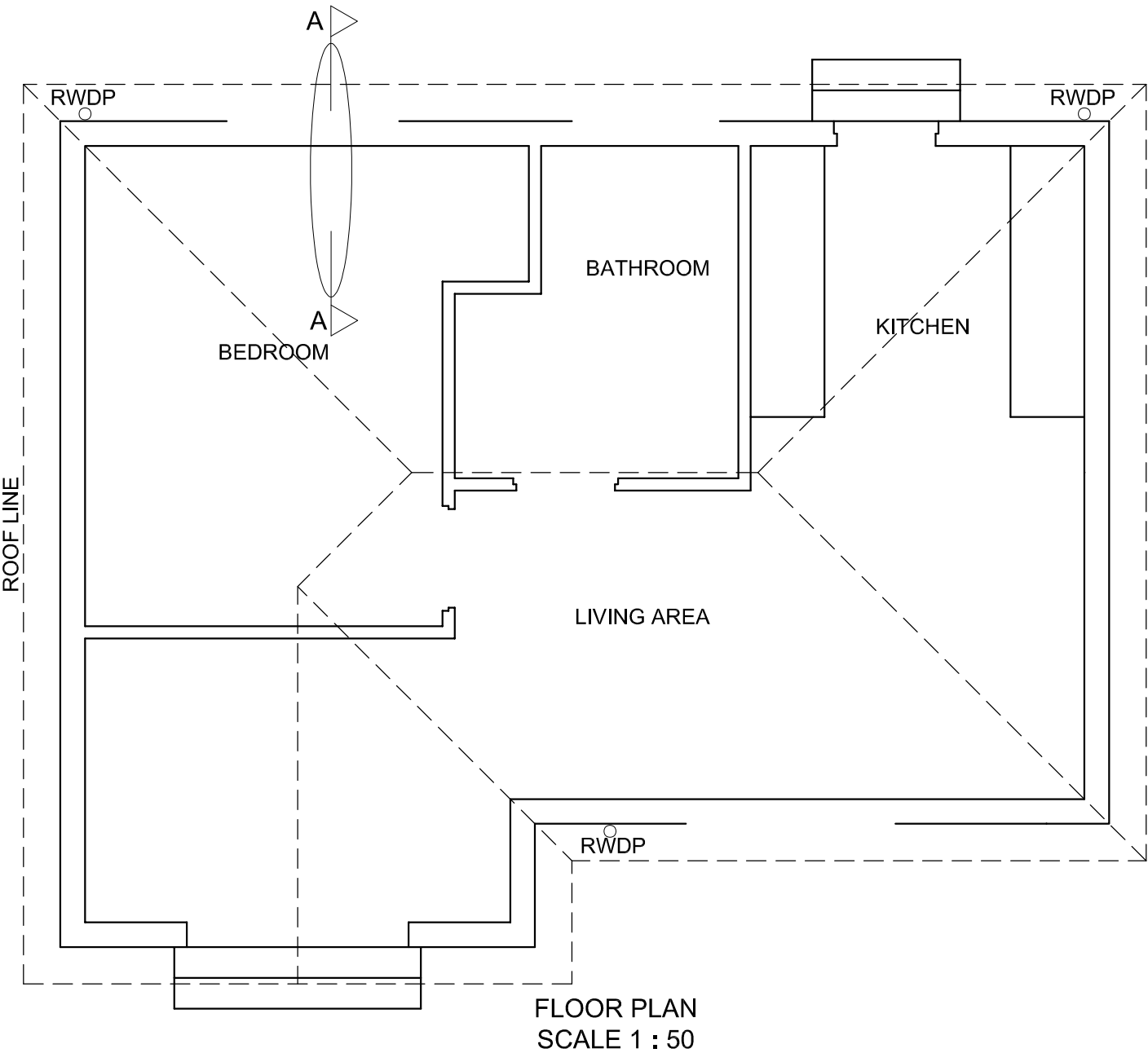
- The south-west elevation
- The floor finishes
- Ground level, finished floor level and damp-proof course (use the correct abbreviations and show them on ALL the relevant views)

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



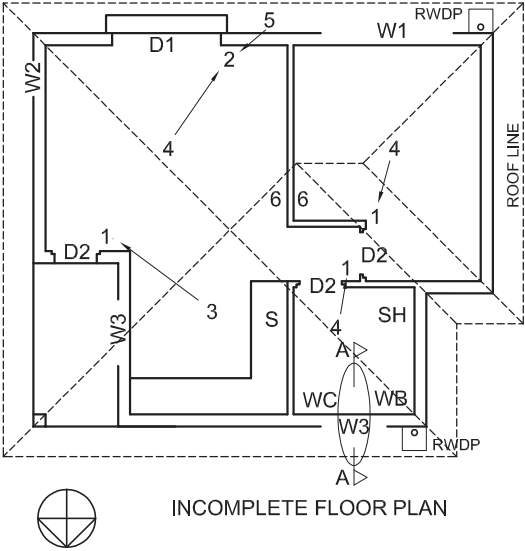
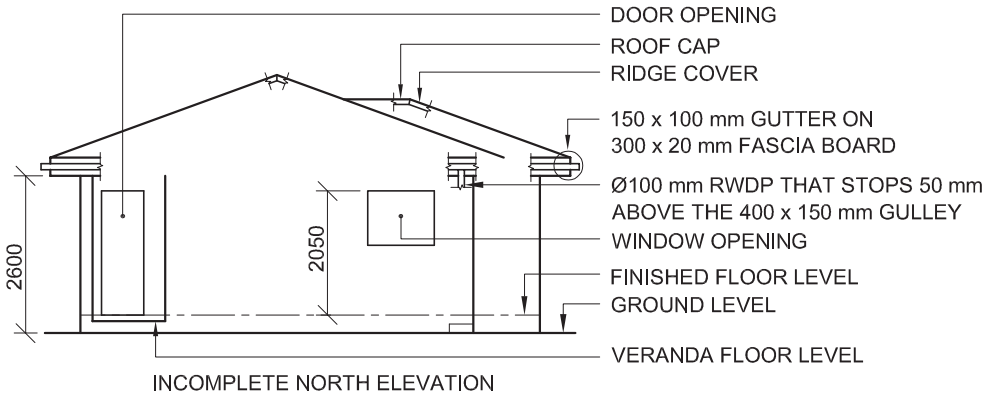


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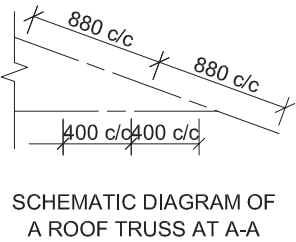


MARK ALLOCATION FOR SECTION OF ROOF		FOR OFFICIAL USE ONLY	
A		INCORRECT SCALE(S) USED	
B		NON-ALIGNMENT OF VIEWS	
C		VIEW(S) ROTATED	
D		SECTION VIEWED INCORRECTLY	
E		INCORRECT LETTERING	
F			
G			
H			
J			
TOTAL		TOTAL	

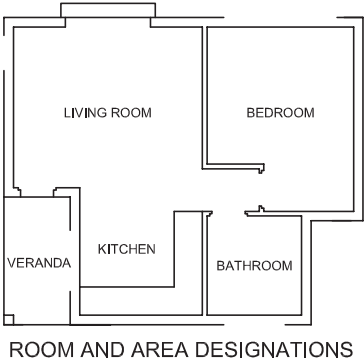
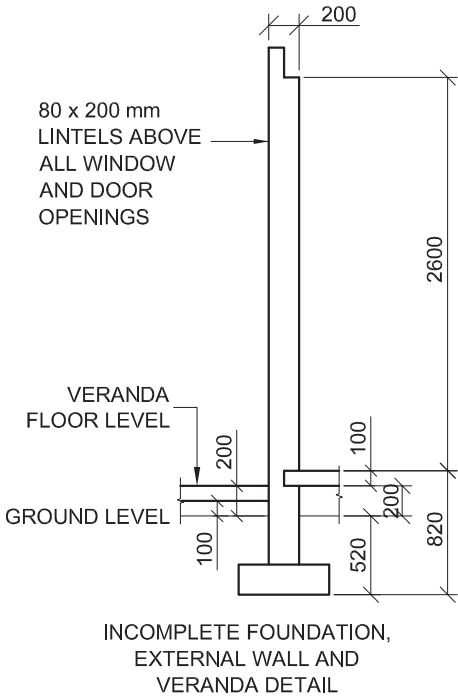
ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATED
1	DOORS + WINDOWS	11			
2	FIXTURES	9			
3	ELECTRICAL	9 1/2			
4	HATCHING	3			
5	LABELS	2			
SUBTOTAL		34 1/2			
SOUTH-WEST ELEVATION					
1	ROOF + RWDP	9 1/2			
2	WALLS + STEP + FFL	4 1/2			
3	DOOR + WINDOW	8 1/2			
4	LABELS	1			
SUBTOTAL		23 1/2			
DETAILED SECTION					
1	ROOF DETAIL	13			
2	SLAB + WALL + WINDOW + STEP	11 1/2			
3	HATCHING	5 1/2			
4	BIC	2 1/2			
5	LABELS	1 1/2			
SUBTOTAL		34			
TOTAL		92			
PENALTIES (-)					
GRAND TOTAL					
EXAMINATION NUMBER					
EXAMINATION NUMBER					6



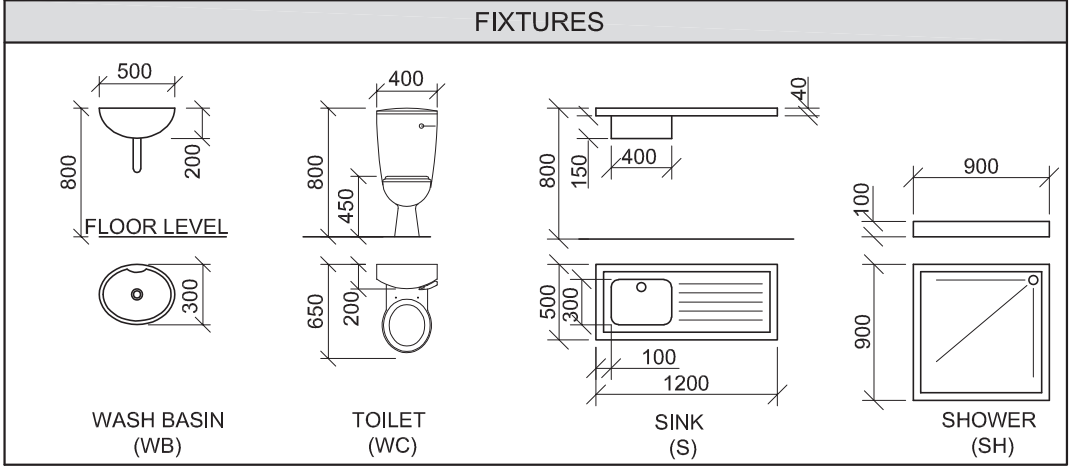
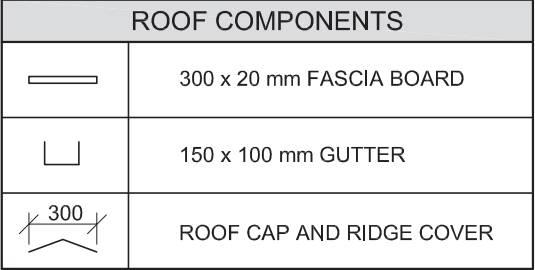
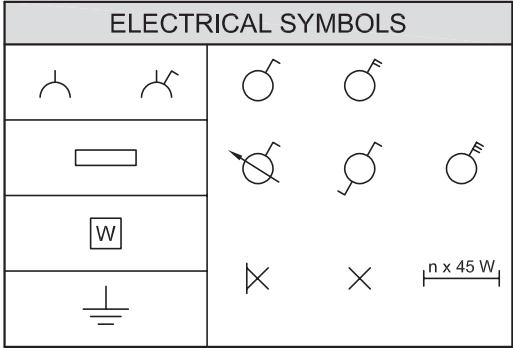
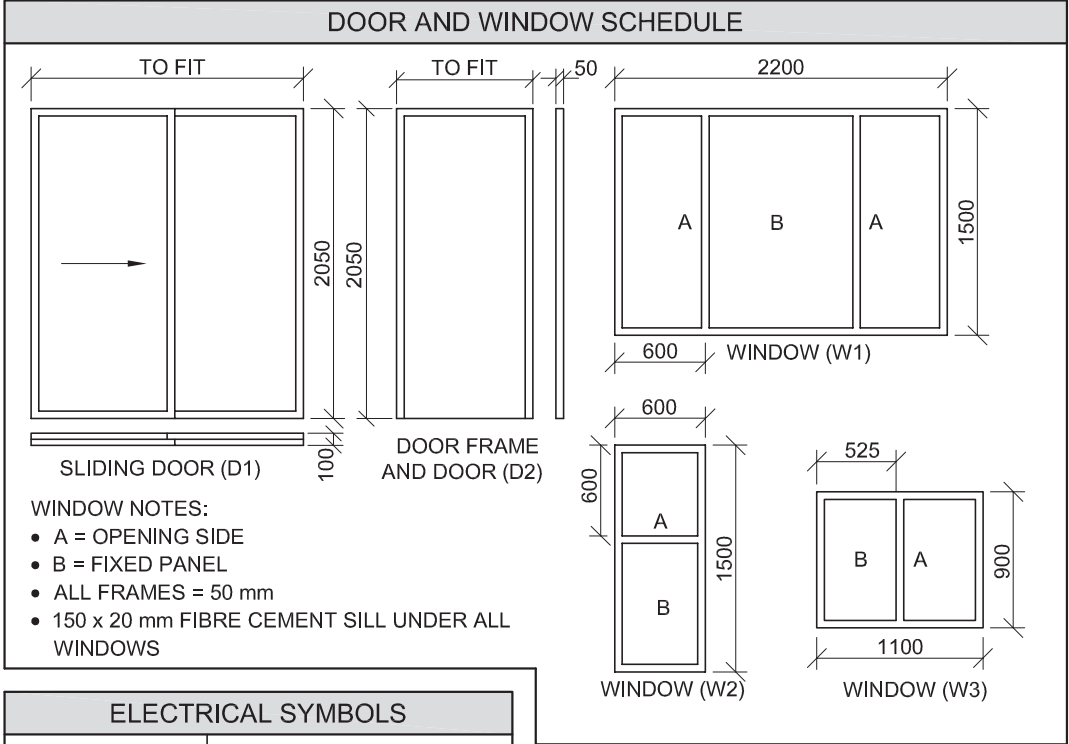
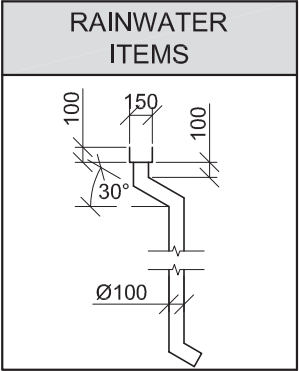
- FEATURES**  
D1 SLIDING DOOR  
D2 DOOR  
W1 WINDOW  
W2 WINDOW  
W3 WINDOW
- FIXTURES**  
WC TOILET  
WB WASH BASIN  
SH SHOWER  
S SINK
- ELECTRICAL FITTINGS**  
1. ONE-WAY SWITCH - SINGLE-POLE  
2. ONE-WAY SWITCH - DOUBLE-POLE  
3. FLUORESCENT LIGHT 3 x 45 W  
4. CEILING LIGHT  
5. WALL-MOUNTED LIGHT  
6. SWITCHED SOCKET OUTLET
- NOTE:**  
THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



- ROOF NOTES:**  
20° ROOF PITCH
- 114 x 40 mm ROOF TRUSSES ON  
114 x 40 mm WALL PLATES
- 500 mm ROOF OVERHANG TO END OF  
ROOF TRUSS
- 20 mm FIBRE CEMENT ROOF SHEET  
ON 75 x 50 mm PURLINS @ 880 mm c/c
- 300 x 20 mm FASCIA BOARD WITH  
150 x 100 mm GUTTER ON ALL SIDES
- 10 mm CEILING BOARD ON 40 x 40 mm  
BRANDING STRIPS @ 400 mm c/c



- FLOOR FINISHES**  
BEDROOM: CARPET  
BATHROOM: TILES  
LIVING ROOM: WOOD  
KITCHEN: TILES  
VERANDA: TILES



QUESTION 4: CIVIL DRAWING

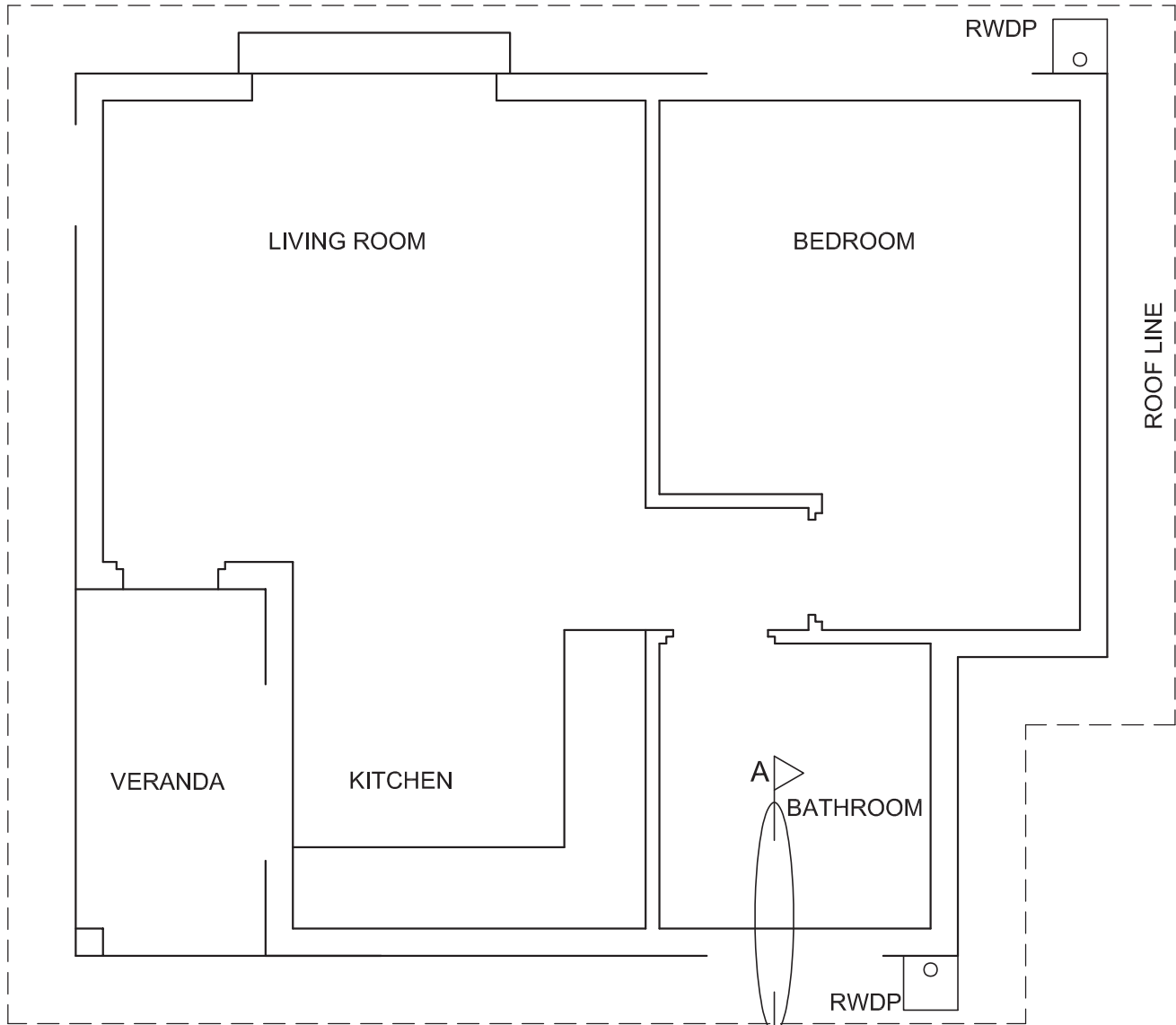
- Given:**
- The incomplete north elevation of a **new house**, showing the walls, the window and door openings, the veranda, the roof and labels
  - The incomplete floor plan showing the walls, positions of the doors, windows, fixtures and electrical layout
  - A schematic diagram of a roof truss at A-A and roof notes
  - The incomplete foundation, external wall and veranda detail
  - Room and area designations as well as floor finishes
  - A table of rainwater items
  - A door and window schedule
  - A table of electrical symbols
  - A table of roof components
  - A table of fixtures
  - The incomplete floor plan and the ground line of the **new house**, drawn to scale 1 : 50, and the incomplete foundation and a break line for 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, 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
  - The complete roof lines
  - ALL hatching detail
- 4.1.2 **THE COMPLETE NORTH ELEVATION**  
**Show the following features on the drawing:**
- The outside walls, veranda, window and door detail
  - The roof detail, including the fascia boards, gutters, rainwater down-pipe and gulley
  - The finished floor level
- 4.2 Using the given 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 complete foundation, external wall and window detail
  - The roof detail, including the fascia board, gutter, rainwater down-pipe and gulley
  - The wash basin to the west of cutting plane A-A
  - ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

- Label the following:**
- The north elevation
  - The 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**. [92]



GL



FLOOR PLAN  
SCALE 1 : 50

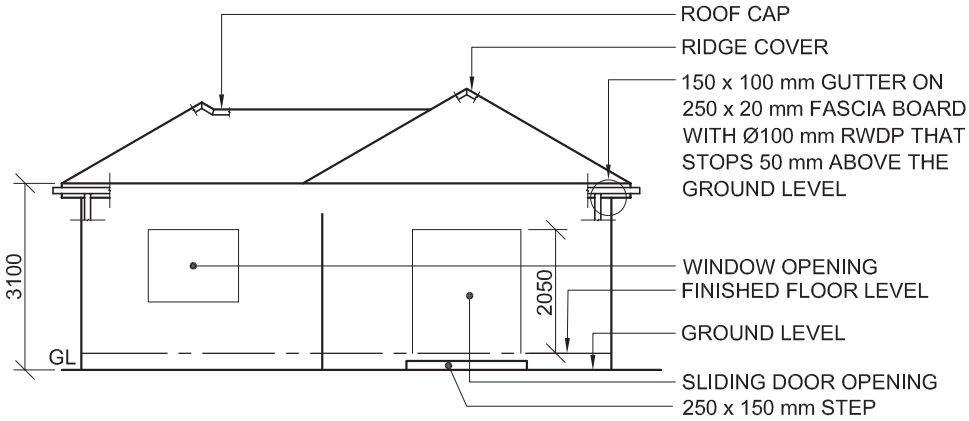


SECTION A-A  
SCALE 1 : 20

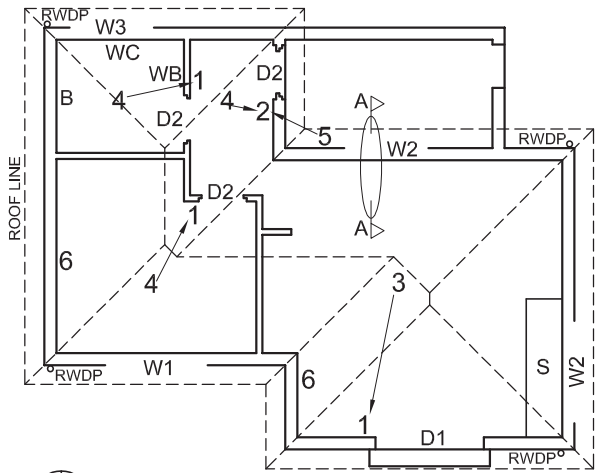
MARK ALLOCATION FOR SECTION OF ROOF		FOR OFFICIAL USE ONLY	
A		INCORRECT SCALE(S) USED	
B		NON-ALIGNMENT OF VIEWS	
C		VIEW(S) ROTATED	
D		SECTION VIEWED INCORRECTLY	
E		INCORRECT LETTERING	
F			
G			
H			
TOTAL		TOTAL	

ASSESSMENT CRITERIA				
FLOOR PLAN				
		POSSIBLE	OBTAINED	SIGN
1	DOORS + WINDOWS	13		
2	FIXTURES + ROOF LINES	11		
3	ELECTRICAL	8 1/2		
4	HATCHING	3		
5	LABELS	2 1/2		
SUBTOTAL		38		
NORTH ELEVATION				
1	ROOF + RWDP + GULLEY	10 1/2		
2	WALLS + STEP + FFL	4		
3	DOOR + WINDOW	6		
4	LABELS	1		
SUBTOTAL		21 1/2		
DETAILED SECTION				
1	ROOF DETAIL	13 1/2		
2	SLAB, WALL, WINDOW + BASIN	12		
3	HATCHING	5 1/2		
4	LABELS	1 1/2		
SUBTOTAL		32 1/2		
TOTAL		92		
PENALTIES (-)				
GRAND TOTAL				
EXAMINATION NUMBER				
EXAMINATION NUMBER				6





INCOMPLETE NORTH ELEVATION



INCOMPLETE FLOOR PLAN

FEATURES

- D1 SLIDING DOOR  
D2 DOOR  
W1 WINDOW  
W2 WINDOW  
W3 WINDOW

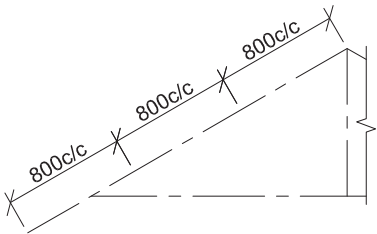
FIXTURES

- WC TOILET  
WB WASH BASIN  
B BATH  
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.



INCOMPLETE SCHEMATIC DIAGRAM OF A ROOF TRUSS AT CUTTING PLANE A-A

ROOF NOTES:

30° ROOF PITCH

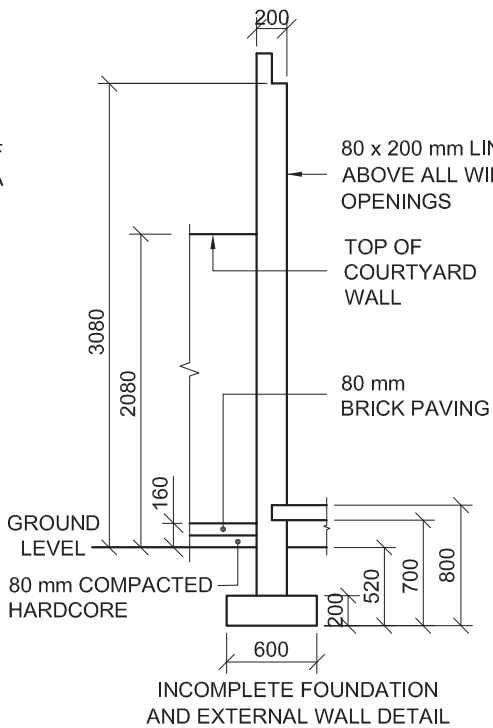
115 x 40 mm ROOF TRUSSES ON  
115 x 40 mm WALL PLATES

300 mm ROOF OVERHANG TO END OF  
ROOF TRUSS

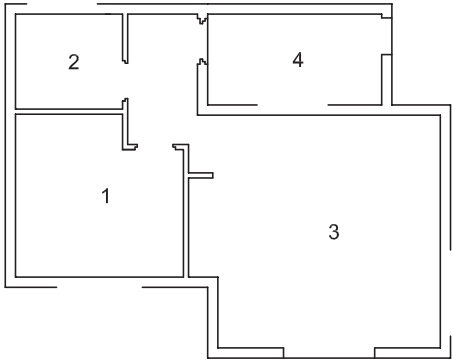
20 mm FIBRE CEMENT ROOF SHEET ON  
75 x 50 mm PURLINS @ 800 mm c/c

250 x 20 mm FASCIA BOARDS WITH  
150 x 100 mm GUTTERS ON ALL SIDES

10 mm CEILING BOARD ON 40 x 40 mm  
BRANDERING STRIPS @ 400 mm c/c



INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL

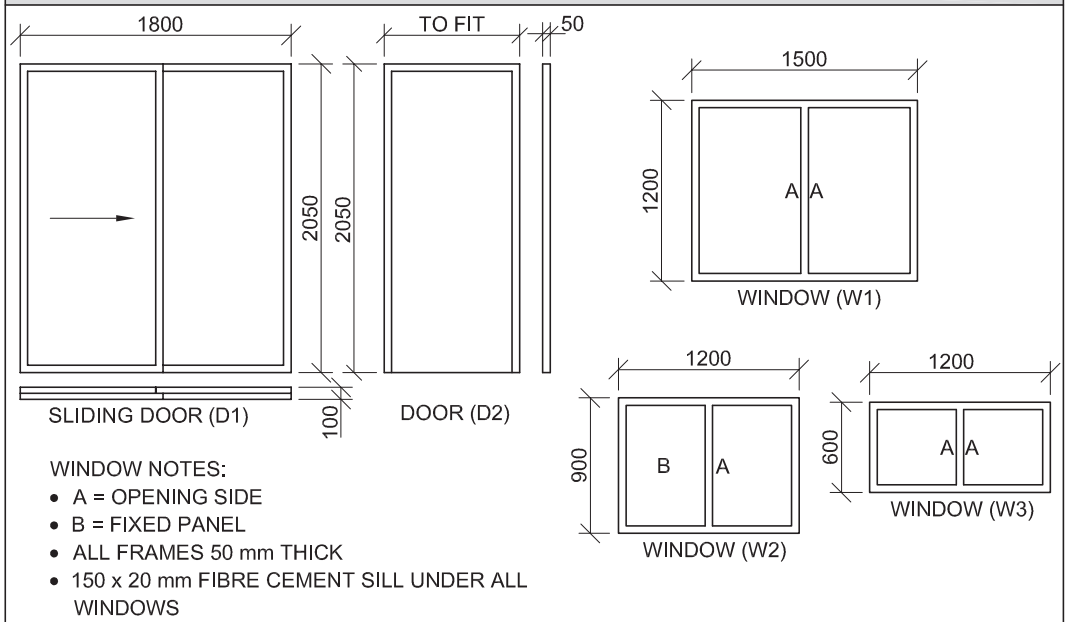


ROOM AND AREA DESIGNATIONS

FLOOR FINISHES

- 1 BEDROOM: VINYL  
2 BATHROOM: TILE  
3 LIVING AREA: TILE  
4 COURTYARD: PAVING

DOOR AND WINDOW SCHEDULE

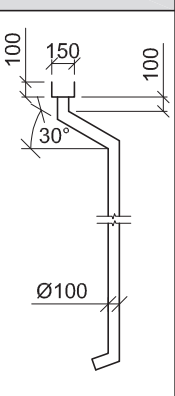


ROOF COMPONENTS

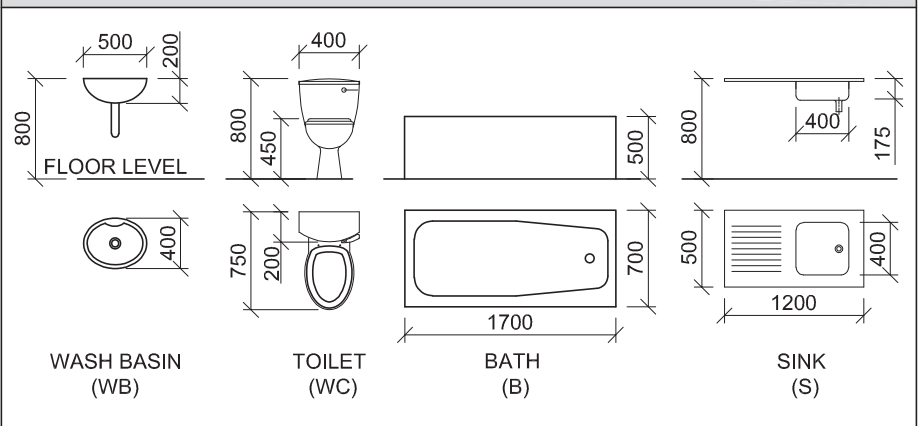
	250 x 20 mm FASCIA BOARD
	150 x 100 mm GUTTER
	75 x 50 mm PURLINS
	ROOF CAP AND RIDGE COVER

ELECTRICAL SYMBOLS


RAINWATER ITEMS



FIXTURES



QUESTION 4: CIVIL DRAWING

Given:

- The incomplete north elevation of a **new house**, showing the walls, the window opening, the sliding door opening, the roof and labels
- The incomplete floor plan showing the walls, positions of the doors, windows, fixtures and electrical layout
- An incomplete schematic diagram of a roof truss at cutting plane A-A and roof notes
- The incomplete foundation and external wall detail
- Room and area designations and floor finishes
- A door and window schedule
- A table of roof components
- A table of electrical symbols
- A table of rainwater items
- A table of fixtures
- The incomplete floor plan and ground level of the **new house**, drawn to scale 1 : 50, and the incomplete foundation and break lines of a 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 and ground level, draw, 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 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, step, window and sliding door detail
- The roof detail, including the fascia boards, gutters and rainwater down-pipes
- The finished floor level

4.2 Using the incomplete foundation, draw, to scale 1 : 20 and between the break lines, the **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 paving, complete foundation, external wall and window detail
- The courtyard wall to the east of cutting plane A-A
- The roof detail, including all roof and rainwater items to the east of cutting plane A-A
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

Label the following:

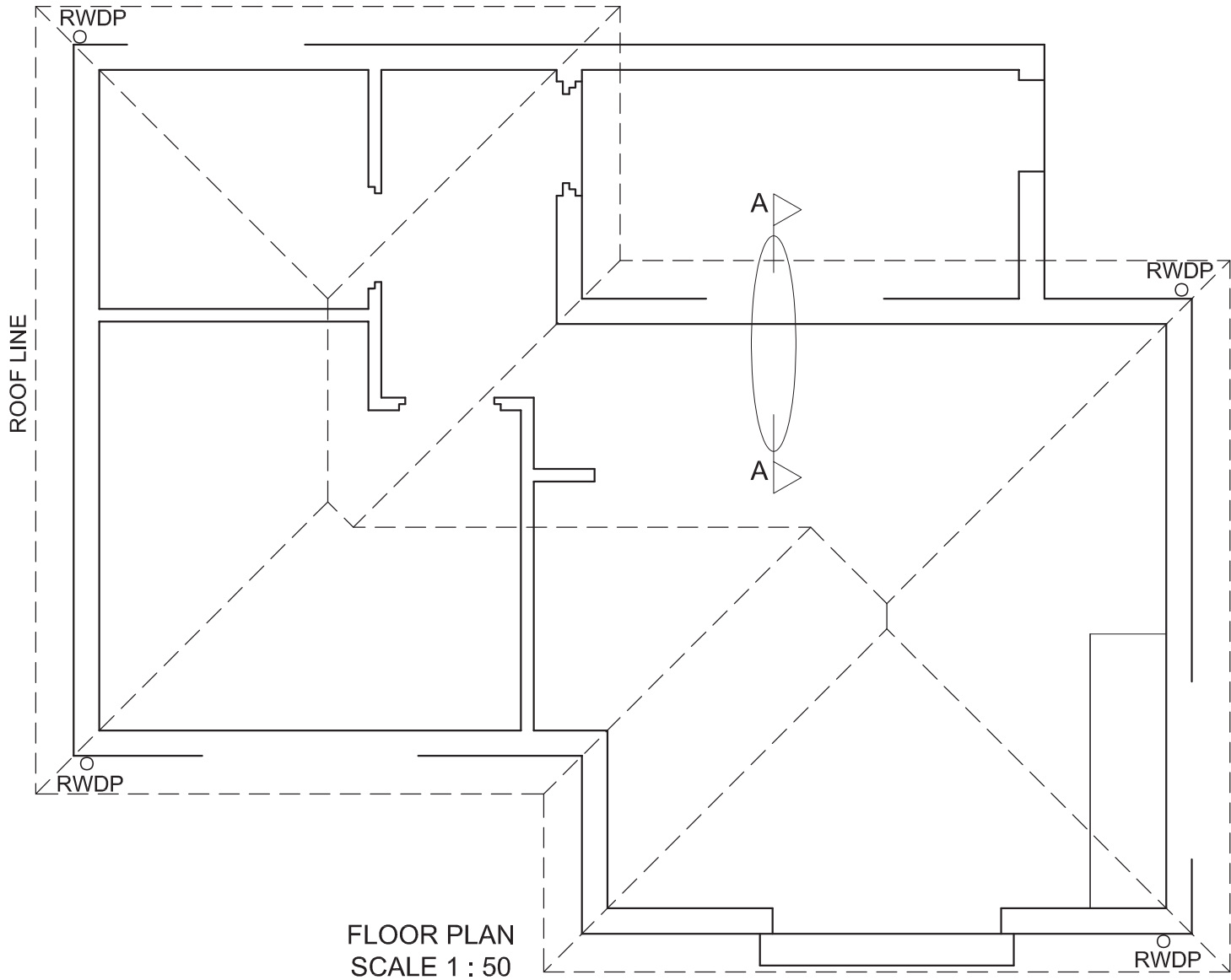
- The north elevation
- The room designations and floor finishes
- Ground level, finished floor level and damp-proof course (use the correct abbreviation and show it on ALL relevant views)

NOTE:

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



GL



SECTION A-A  
SCALE 1 : 20

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

ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATED
1	DOORS + WINDOWS	13			
2	FIXTURES	8			
3	ELECTRICAL	8 <sup>1</sup> / <sub>2</sub>			
4	HATCHING	3			
5	LABELS	4			
SUBTOTAL		36 <sup>1</sup> / <sub>2</sub>			
NORTH ELEVATION					
1	ROOF + RWDP	11 <sup>1</sup> / <sub>2</sub>			
2	WALLS + STEP + FFL	4			
3	DOOR + WINDOW	8			
4	LABELS	1			
SUBTOTAL		24 <sup>1</sup> / <sub>2</sub>			
DETAILED SECTION					
1	ROOF DETAIL	14 <sup>1</sup> / <sub>2</sub>			
2	SLAB + WALL + WINDOW	11 <sup>1</sup> / <sub>2</sub>			
3	HATCHING	6 <sup>1</sup> / <sub>2</sub>			
4	LABELS	1 <sup>1</sup> / <sub>2</sub>			
SUBTOTAL		34			
TOTAL		95			
PENALTIES (-)					
GRAND TOTAL					
EXAMINATION NUMBER					
EXAMINATION NUMBER					6





ROOF CAP  
RIDGE COVER

150 x 100 mm GUTTER ON 200 x 20 mm FASCIA BOARD WITH Ø100 mm RWDP THAT STOPS 50 mm ABOVE THE GULLY

WINDOW OPENING  
DOOR OPENING

FINISHED FLOOR LEVEL  
GROUND LEVEL

300 x 300 x 150 mm GULLY

INCOMPLETE SOUTH ELEVATION

INCOMPLETE FLOOR PLAN

SCHEMATIC DIAGRAM OF A COMPLETE ROOF TRUSS

SCHEMATIC DIAGRAM OF THE ROOF TRUSS AT A-A

**ROOF NOTES:**  
20° ROOF PITCH

114 x 40 mm ROOF TRUSS ON 114 x 40 mm WALL PLATES

300 mm ROOF OVERHANG TO END OF ROOF TRUSS

20 mm FIBRE CEMENT ROOF SHEETING ON 75 x 50 mm PURLINS @ 750 mm c/c

200 x 20 mm FASCIA BOARDS WITH 150 x 100 mm GUTTERS ON ALL SIDES

10 mm CEILING BOARD ON 40 x 40 mm BRANDING STRIPS @ 600 mm c/c

**FEATURES**

**D** DOOR  
**W1 TO W3** WINDOWS

**FIXTURES**

**WC** TOILET  
**WB** WASHBASIN  
**B** BATH  
**S** SINK  
**BIC** BUILT-IN CUPBOARD

**ELECTRICAL FITTINGS**

1. ONE-WAY SWITCH - SINGLE-POLE  
2. ONE-WAY SWITCH - DOUBLE-POLE  
3. FLUORESCENT LIGHT 2 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.

**ROOM DESIGNATIONS**

**FLOOR FINISHES**

1 BEDROOM: CARPET  
2 BATHROOM: TILE  
3 KITCHEN: WOOD  
4 LOUNGE: WOOD

**ELECTRICAL SYMBOLS**

**WINDOW NOTES:**

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

**DOOR AND WINDOW SCHEDULE**

50 mm DOOR FRAME AND DOOR (D)

WINDOW (W1)

WINDOW (W2)

WINDOW (W3)

**ROOF COMPONENTS**

	114 x 40 mm WALL PLATE
	ROOF CAP AND RIDGE COVER
	150 x 100 mm GUTTER
	200 x 20 mm FASCIA BOARD

**FIXTURES**

TOILET (WC)

WASHBASIN (WB)

BATH (B)

SINK (S)

BUILT-IN-CUPBOARD (BIC)

**NOTE:**  
KITCHEN CUPBOARD 850 mm HIGH

INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL

QUESTION 4: CIVIL DRAWING

- Given:**
- The incomplete south elevation of a **new house**, showing the walls, the door and window openings, the roof and labels
  - The incomplete floor plan showing the walls, positions of the doors, windows, fixtures and the electrical layout
  - Schematic diagrams of roof trusses and roof notes
  - The incomplete foundation and external wall detail
  - Room designations and floor finishes
  - 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 house**, drawn to scale 1 : 50, and corner 'B' of the foundation and the break line for the detailed section, drawn to scale 1 : 20, on page 6

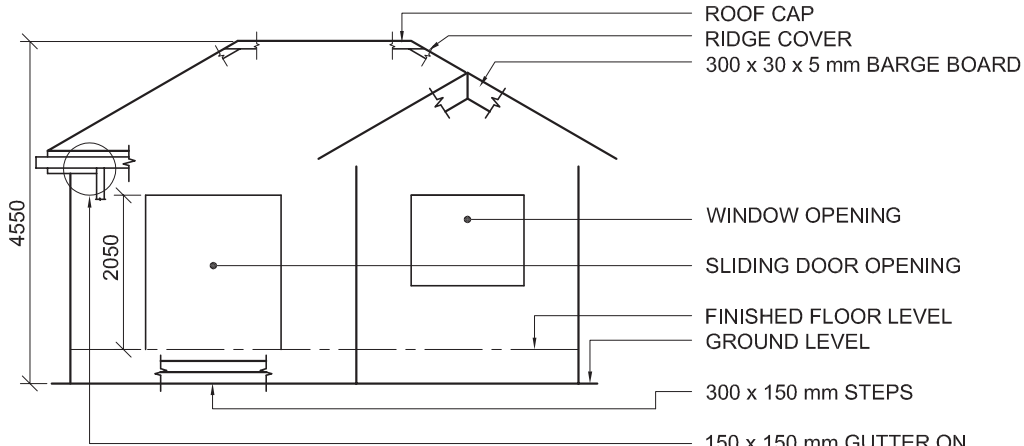
- Instructions:**
- Answer this question on page 6.
- 4.1 Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1 : 50, the following views of the **new house**:
- 4.1.1 **THE COMPLETE FLOOR PLAN**
- Add the following features to the drawing:**
- ALL doors and windows
  - The fixtures as indicated by the abbreviations
  - ALL electrical fittings as indicated by the numbers
  - ALL hatching detail
- 4.1.2 **THE COMPLETE SOUTH ELEVATION**
- Show the following features on the drawing:**
- The outside walls, step, door and window detail
  - The roof detail, including the fascia boards, gutters and rainwater down-pipe
  - The finished floor level
- 4.2 Using corner 'B' of the foundation and the 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 and external wall detail
  - The roof detail, including the fascia board and gutter
  - The door frame and kitchen cupboard north of (above) 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, damp-proof course and built-in cupboard (use the correct abbreviations and show it on ALL the relevant views)

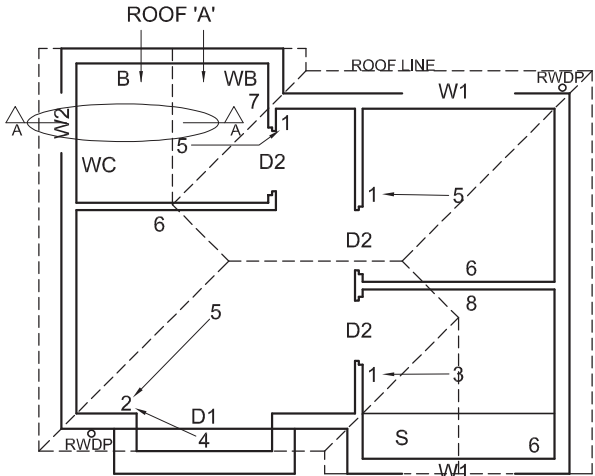
**NOTE:**  
ALL drawings must comply with the **guidelines** and **graphical symbols** as contained in the **SANS 10143**. [94]

6

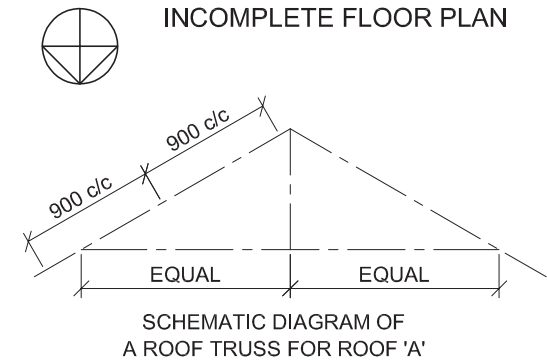




INCOMPLETE NORTH ELEVATION



INCOMPLETE FLOOR PLAN



**ROOF NOTES:**  
30° ROOF PITCH

115 x 40 mm ROOF TRUSSES ON 115 x 40 mm WALL PLATES

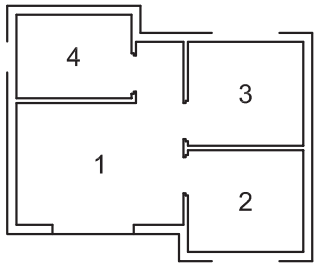
300 mm ROOF OVERHANG TO END OF ROOF TRUSS

20 mm FIBRE CEMENT ROOF SHEETING ON 75 x 50 mm PURLINS @ 900 mm c/c

300 x 20 mm FASCIA BOARD WITH 150 x 150 mm GUTTERS ON ALL SIDES

300 x 30 x 5 mm BARGE BOARDS ON GABLE ENDS, 40 mm PAST THE GUTTERS

8 mm CEILING BOARD ON 40 x 40 mm BRANDERING STRIPS @ 600 mm c/c



ROOM DESIGNATIONS

**FLOOR FINISHES**

- 1. LOUNGE: CARPET
- 2. KITCHEN: TILES
- 3. BEDROOM: CARPET
- 4. BATHROOM: TILES

**FEATURES**

- D1 + D2 DOORS
- W1 + W2 WINDOWS

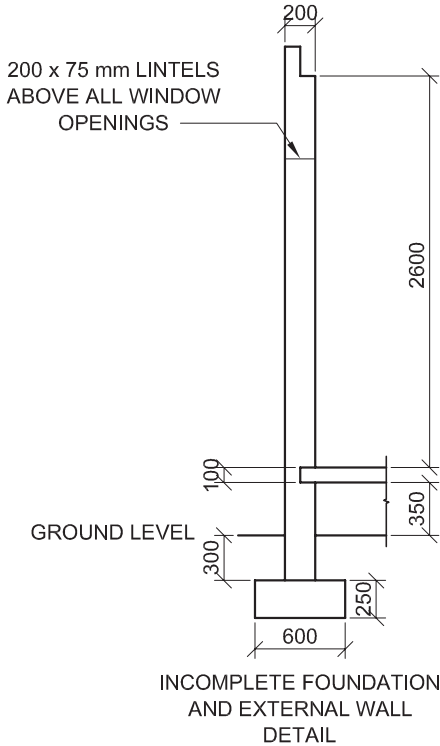
**FIXTURES**

- WC TOILET
- WB WASH BASIN
- B BATH
- S SINK

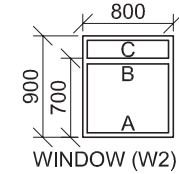
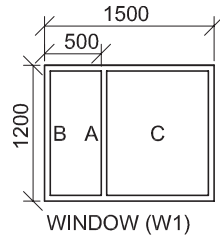
**ELECTRICAL FITTINGS**

- 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. SOCKET OUTLET
- 8. DISTRIBUTION BOARD

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



**WINDOW AND DOOR SCHEDULE**

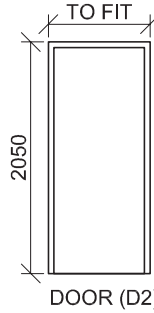
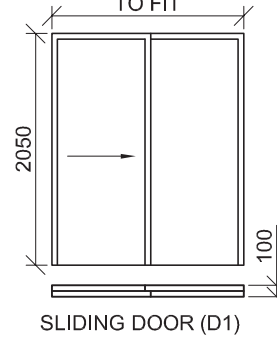


**WINDOW NOTES:**

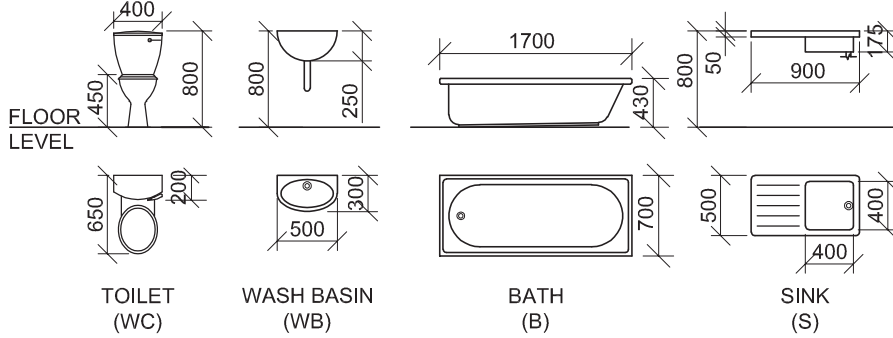
- A = OPENING SIDE
- B = HINGED SIDE
- C = FIXED PANEL
- ALL FRAMES 50 mm THICK
- 180 x 20 mm SILL TILE UNDER ALL WINDOWS

**DOOR NOTE:**

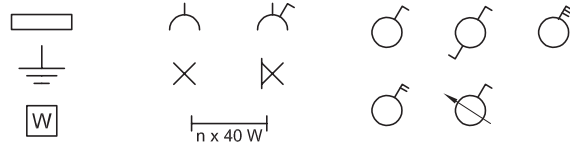
- ALL FRAMES 50 mm THICK



**FIXTURES**



**ELECTRICAL SYMBOLS**



**ROOF COMPONENTS**

	ROOF CAP AND RIDGE COVER
	150 x 150 mm GUTTER
	300 x 20 mm FASCIA BOARD
	300 x 30 x 5 mm BARGE BOARD

**QUESTION 4: CIVIL DRAWING**

**Given:**

- The incomplete north elevation of a **new self-contained flatlet**, showing the walls, the sliding door and window openings, the roof and labels
- The incomplete floor plan showing the walls, steps, position of the doors, windows, fixtures and the electrical layout
- A schematic diagram of a roof truss for roof 'A' and roof notes
- Room designations and floor finishes
- The incomplete foundation and external wall detail
- A window and door schedule
- A table of fixtures
- A table of electrical symbols
- A table of roof components
- The incomplete floor plan of the **new self-contained flatlet**, drawn to scale 1 : 50, and the incomplete foundation and break line for 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 self-contained flatlet**:

**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 NORTH ELEVATION**

**Show the following features on the drawing:**

- The outside walls, steps, window and sliding door detail
- The roof detail, including the barge boards, fascia boards, gutter 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 complete foundation and external wall detail
- The window detail
- The roof detail, including the fascia board, gutter and barge board
- The bath
- 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
- Ground level, finished floor level and damp-proof course (use the correct abbreviations and show it on ALL the relevant views)

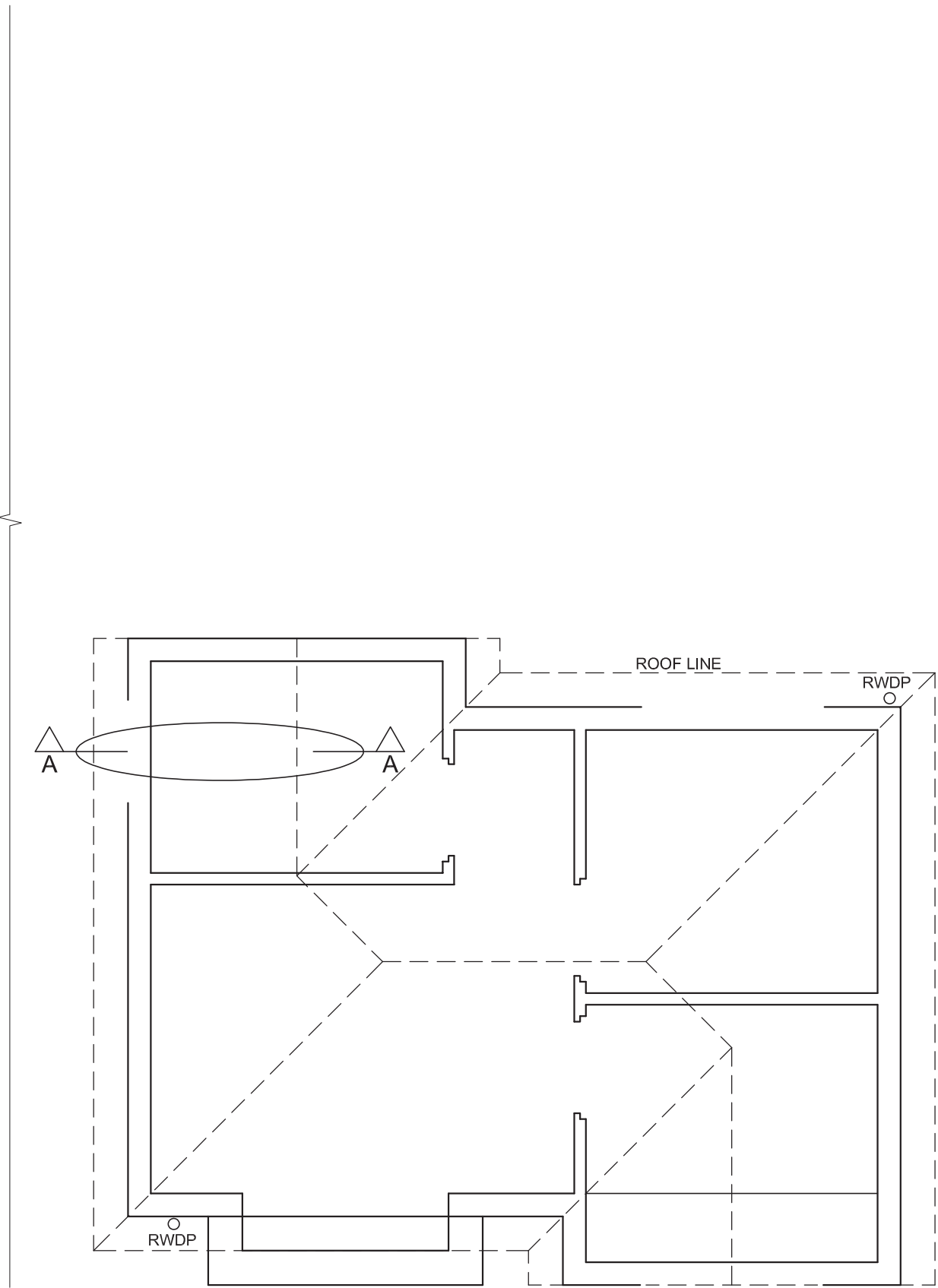
**NOTE:**

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



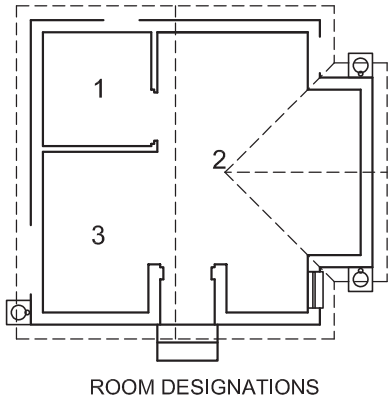
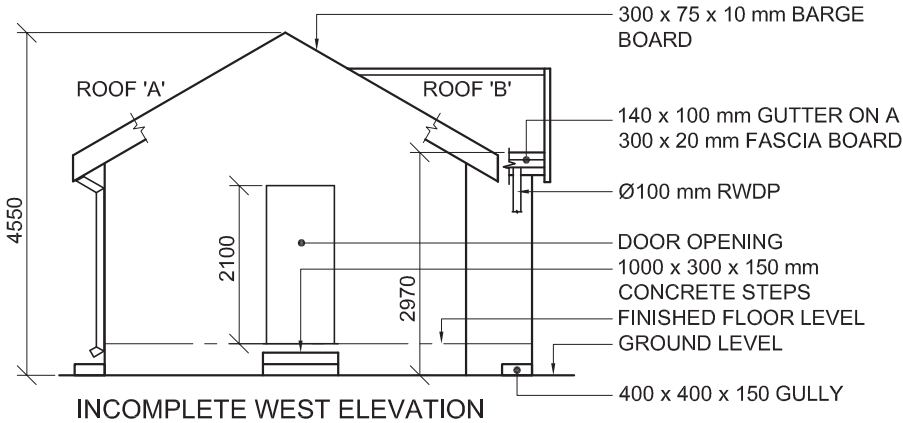
MARK ALLOCATION FOR SECTION OF ROOF		FOR OFFICIAL USE ONLY	
A (2)		INCORRECT SCALE(S) USED	
B (1)		NON-ALIGNMENT OF VIEWS	
C (1)		VIEW(S) ROTATED	
D (2)		SECTION VIEWED INCORRECTLY	
E (6)		INCORRECT LETTERING	
F (2)			
G (1)			
H (1)			
I (1)			
<b>TOTAL</b>		<b>TOTAL</b>	

ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATED
1	DOORS + WINDOWS	11			
2	FIXTURES	7			
3	ELECTRICAL	10			
4	HATCHING	3			
5	LABELS	4			
SUBTOTAL		35			
NORTH ELEVATION					
1	ROOF + RWDP	10 $\frac{1}{2}$			
2	WALLS + STEP + FFL	6			
3	DOOR + WINDOW	7			
4	LABELS	1 $\frac{1}{2}$			
SUBTOTAL		25			
DETAILED SECTION					
1	ROOF DETAIL	16			
2	FOUNDATION + WALL + WINDOW	10			
3	BATH	1			
4	HATCHING	5 $\frac{1}{2}$			
5	LABELS	1 $\frac{1}{2}$			
SUBTOTAL		34			
TOTAL		94			
PENALTIES (-)					
GRAND TOTAL					
EXAMINATION NUMBER					
EXAMINATION NUMBER					6



DETAILED SECTION A-A  
SCALE 1 : 20

FLOOR PLAN  
SCALE 1 : 50



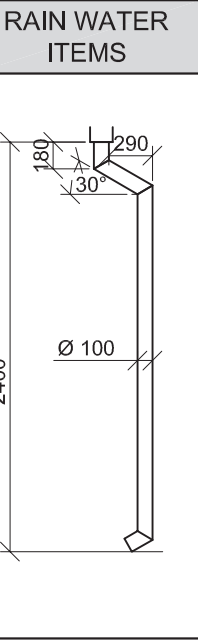
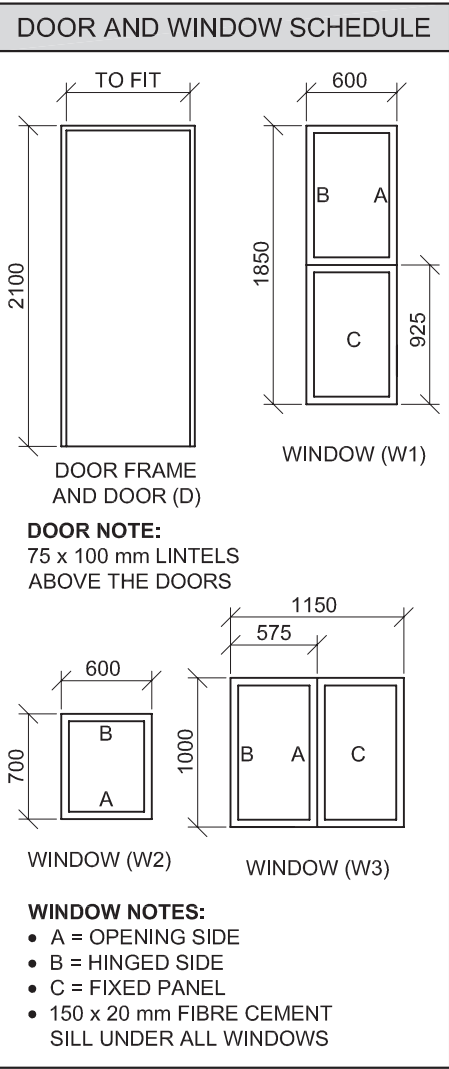
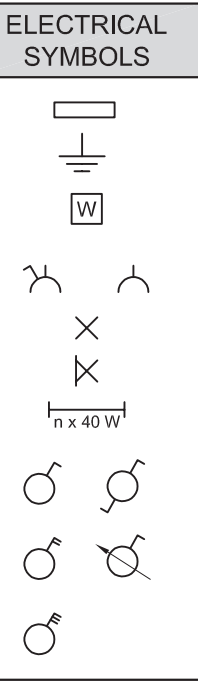
**FLOOR FINISHES**  
1 BATHROOM: TILE  
2 LIVING ROOM: CARPET  
3 KITCHEN: TILE

**FEATURES**  
D DOOR  
W1 TO W3 WINDOWS

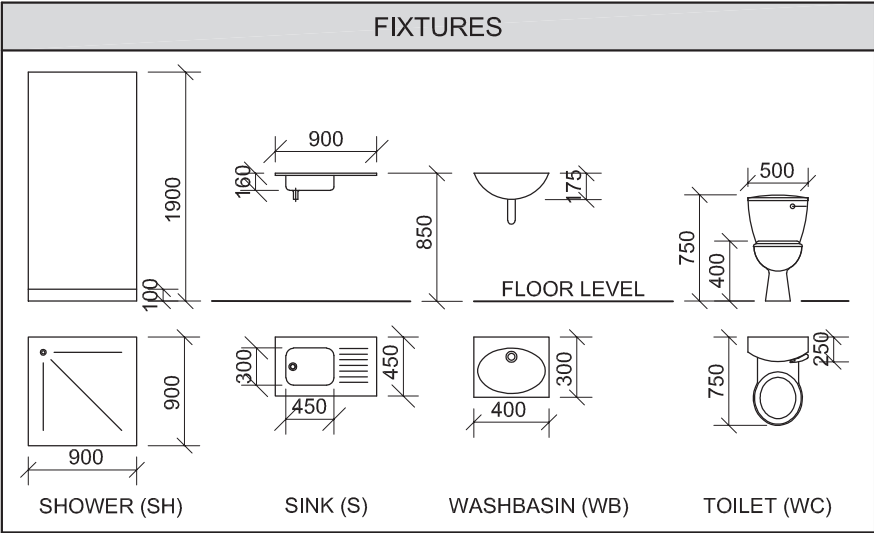
**FIXTURES**  
WC TOILET  
WB WASHBASIN  
SH SHOWER  
S SINK

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

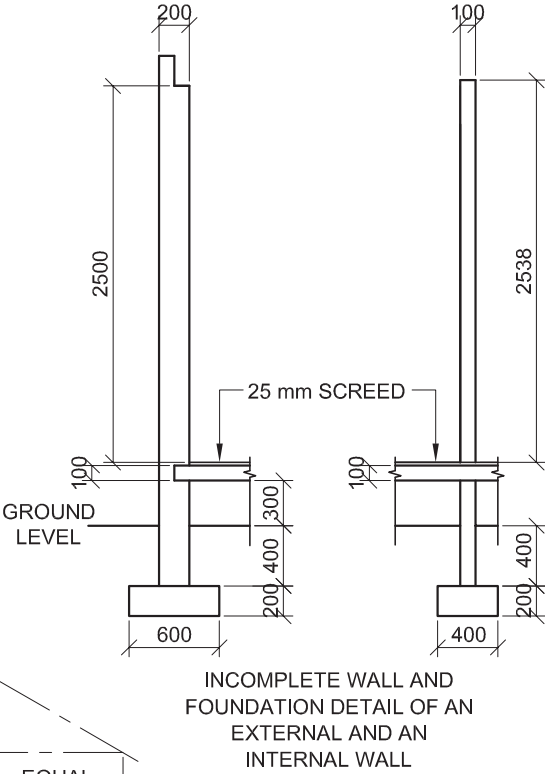
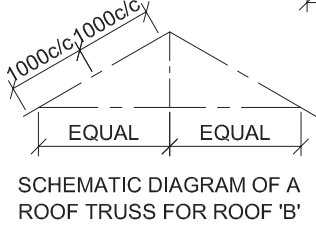
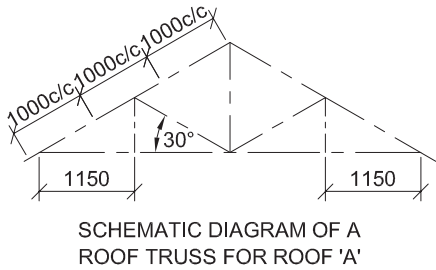
**NOTE:**  
THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



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



**ROOF NOTES:**  
30° ROOF PITCH  
114 x 38 mm ROOF TRUSS ON 114 x 38 mm WALL PLATES  
240 mm ROOF OVERHANG TO END OF ROOF TRUSS  
30 mm CORRUGATED ROOF SHEETING ON 75 x 50 mm PURLINS @ 1000 mm c/c  
300 x 75 x 10 mm BARGE BOARD ON GABLE ENDS, 20 mm PAST THE GUTTER  
300 x 20 mm FASCIA BOARD WITH 140 x 100 mm GUTTERS ON ALL SIDES  
9 mm CEILING BOARD ON 38 x 38 mm BRANDING STRIPS @ 400 mm c/c

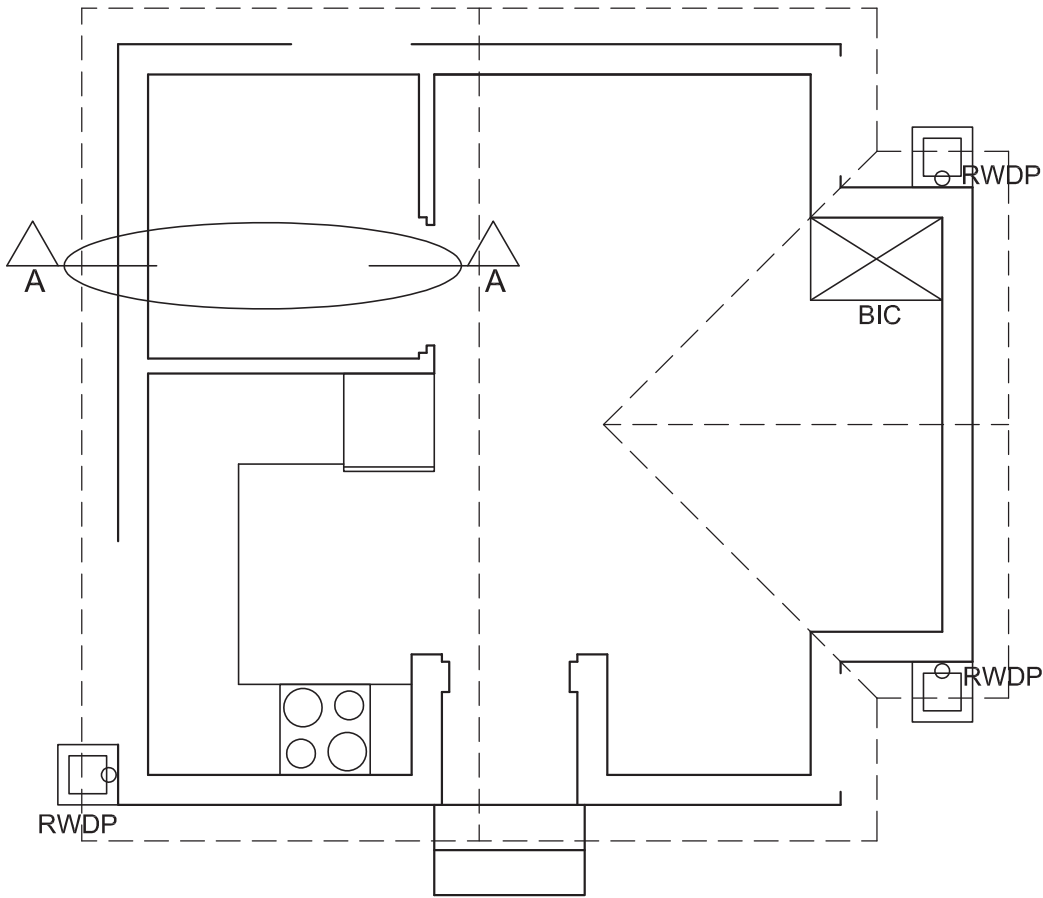


QUESTION 4: CIVIL DRAWING

- 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
  - Roof notes and a schematic diagram of roof truss 'A' and roof truss 'B'
  - Room designations and floor finishes
  - The incomplete wall and foundation detail of an external and an internal wall
  - A table of electrical symbols
  - A table of rain water items
  - 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 of a 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, gullies, steps and door detail
  - The roof detail, including the barge boards, fascia board, gutter and rainwater down-pipes
  - 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 wall and foundation detail of both walls
  - The door detail
  - The roof detail, including the fascia board, barge board and gutter
  - The shower, toilet and the window above the ellipse
  - 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**.



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 (5)		SECTION VIEWED INCORRECTLY	
E (2)		INCORRECT LETTERING	
F (1)			
G (1)			
H (1)			
I (1)			
TOTAL		TOTAL	

ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATED
1	DOORS + WINDOWS	10			
2	ELECTRICAL	6			
3	FIXTURES	8			
4	HATCHING	3			
5	LABELS	3			
SUBTOTAL		30			
WEST ELEVATION					
1	ROOF + RWDP	10			
2	WALLS + FFL	6 1/2			
3	DOOR	2			
4	LABELS	1 1/2			
SUBTOTAL		20			
DETAILED SECTION					
1	ROOF DETAIL	15			
2	FOUNDATION + WALL + DOOR	14 1/2			
3	WC + SHOWER + WINDOW	7			
4	HATCHING	7 1/2			
5	LABELS	1			
SUBTOTAL		45			
TOTAL		95			
PENALTIES (-)					
GRAND TOTAL					
EXAMINATION NUMBER					
EXAMINATION NUMBER					6



DETAILED SECTION A-A  
SCALE 1 : 20

FLOOR PLAN  
SCALE 1 : 50





INCOMPLETE WEST ELEVATION

ROOM DESIGNATIONS

TO FIT	
DOOR (D1)	
TO FIT	
SLIDING DOOR (D2)	
WINDOW (W1)	
WINDOW (W2)	
WINDOW (W3)	
WINDOW NOTES:	
• A = OPENING SIDE	
• B = HINGED SIDE	
• C = FIXED PANEL	
• 150 x 20 mm FIBRE CEMENT SILL UNDER ALL WINDOWS	
• ALL FRAMES 50 mm THICK	

D1	DOOR
D2	SLIDING DOOR
W1 TO W3	WINDOWS

WC	TOILET
WB	WASHBASIN
SH	SHOWER
S	SINK

1.	ONE-WAY SWITCH - SINGLE-POLE
2.	ONE-WAY SWITCH - DOUBLE-POLE
3.	FLUORESCENT LIGHT 2 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.

1. BEDROOM:	CARPET
2. VERANDA:	GRANO
3. LIVING AREA:	WOOD
4. KITCHEN:	TILE
5. BATHROOM:	TILE


n x 40 W

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

TOILET (WC)	WASHBASIN (WB)	SHOWER (SH)	SINK (S)

SCHEMATIC DIAGRAM OF A ROOF TRUSS

**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

INCOMPLETE DETAIL OF FOUNDATIONS AND WALLS FOR THE VERANDA

QUESTION 4: CIVIL DRAWING

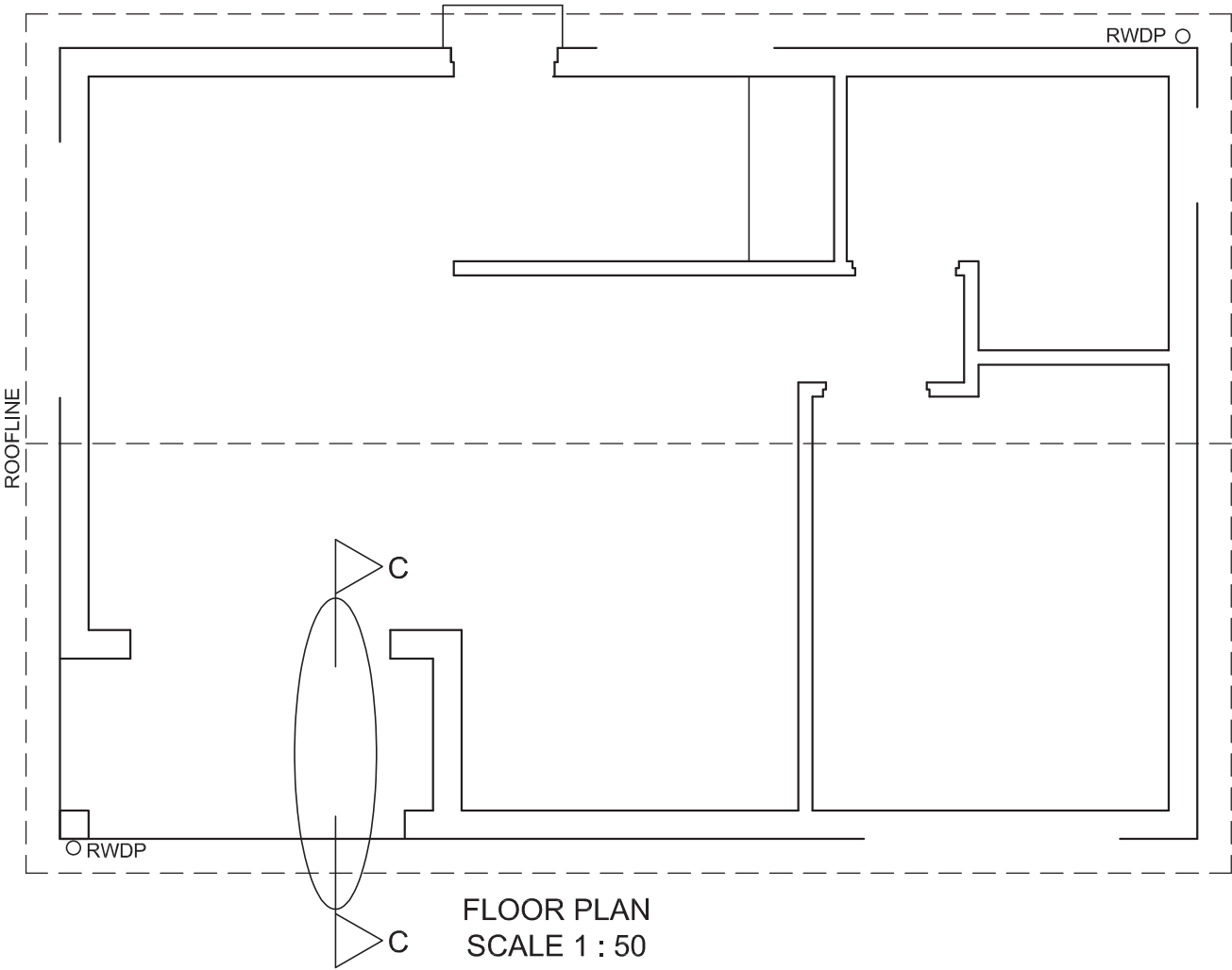
- Given:**
- The incomplete west elevation of a **new house** showing the walls, the sliding door and window openings, the roof and notes
  - The incomplete floor plan showing the walls, positions of the doors, windows, fixtures and the electrical layout
  - A schematic diagram of a roof truss and roof 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)

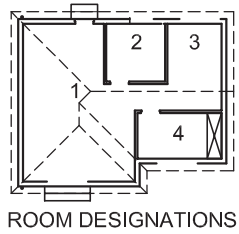
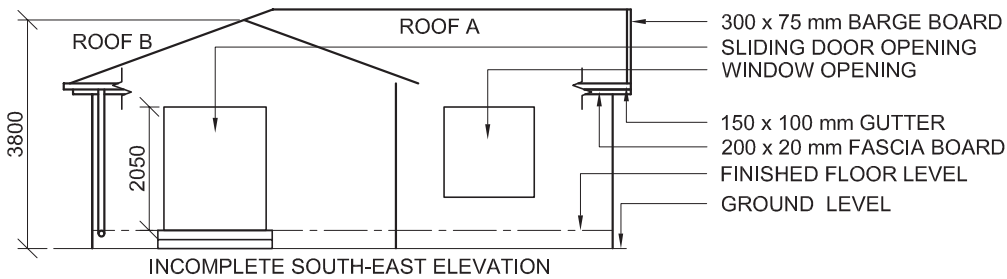
**NOTE:**  
ALL drawings must comply with the **guidelines** and **graphical symbols** as contained in the **SANS 10143**. [93] 5



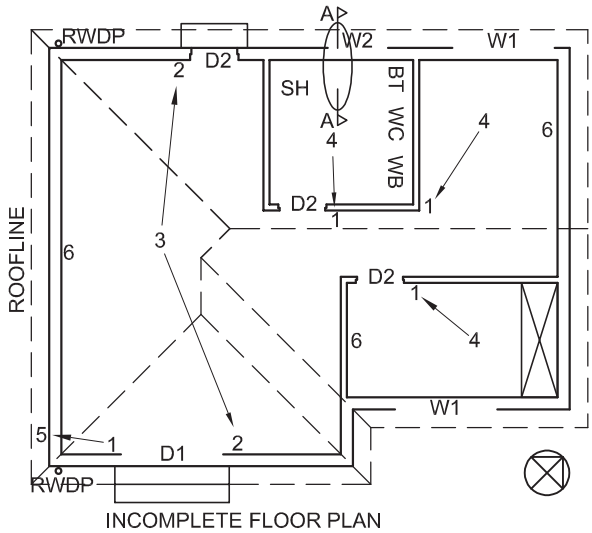
MARK ALLOCATION FOR ROOF SECTION (4.2)		FOR OFFICIAL USE ONLY	
A (1)		INCORRECT SCALE	
B (1)		NON-ALIGNMENT OF VIEWS	
C (2)		VIEW(S) ROTATED	
D (3)		SECTION VIEWED INCORRECTLY	
E (2)		INCORRECT LETTERING	
F (1)			
G (1)			
H (2)			
I (1)			
J (1)			
TOTAL		TOTAL	

ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATED
1	DOORS + WINDOWS	13 <sup>1</sup> / <sub>2</sub>			
2	FIXTURES	7			
3	ELECTRICAL	9 <sup>1</sup> / <sub>2</sub>			
4	HATCHING	4			
5	LABELS	5			
SUBTOTAL		39			
WEST ELEVATION					
1	ROOF + RWDP	5 <sup>1</sup> / <sub>2</sub>			
2	WALLS + FFL + STEP	4			
3	DOOR + WINDOW	7 <sup>1</sup> / <sub>2</sub>			
4	LABELS	1 <sup>1</sup> / <sub>2</sub>			
SUBTOTAL		18 <sup>1</sup> / <sub>2</sub>			
DETAILED SECTION					
1	ROOF	12			
2	FOUNDATION + WALL + SLAB + DOOR + LINTEL	13 <sup>1</sup> / <sub>2</sub>			
3	HATCHING	9			
4	LABELS	1			
SUBTOTAL		35 <sup>1</sup> / <sub>2</sub>			
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



**FEATURES**  
**D1** SLIDING DOOR  
**D2** DOOR  
**W1 AND W2** WINDOWS

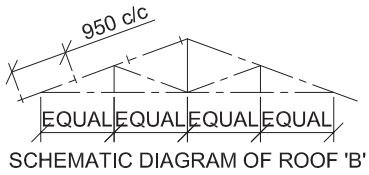
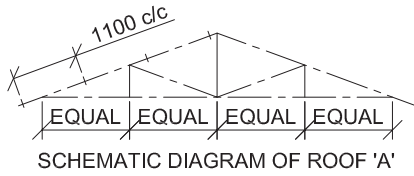
**FLOOR FINISHES**  
1 LIVING AREA CARPET  
2 BATHROOM TILE  
3 HOBBY ROOM TILE  
4 BEDROOM CARPET

**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

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

ELECTRICAL SYMBOLS	



**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

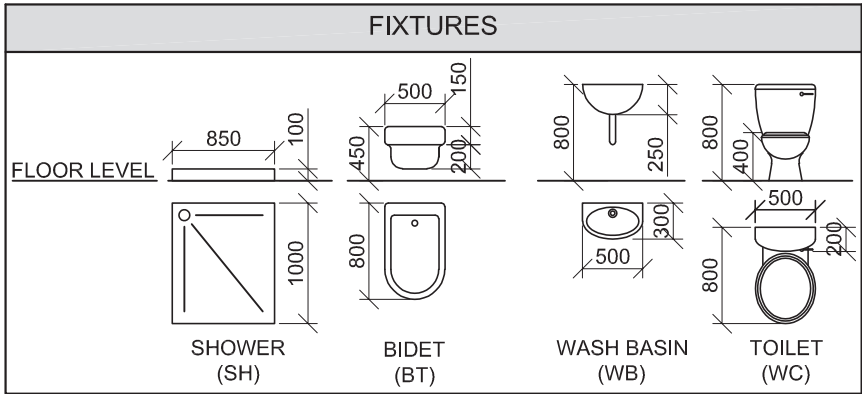
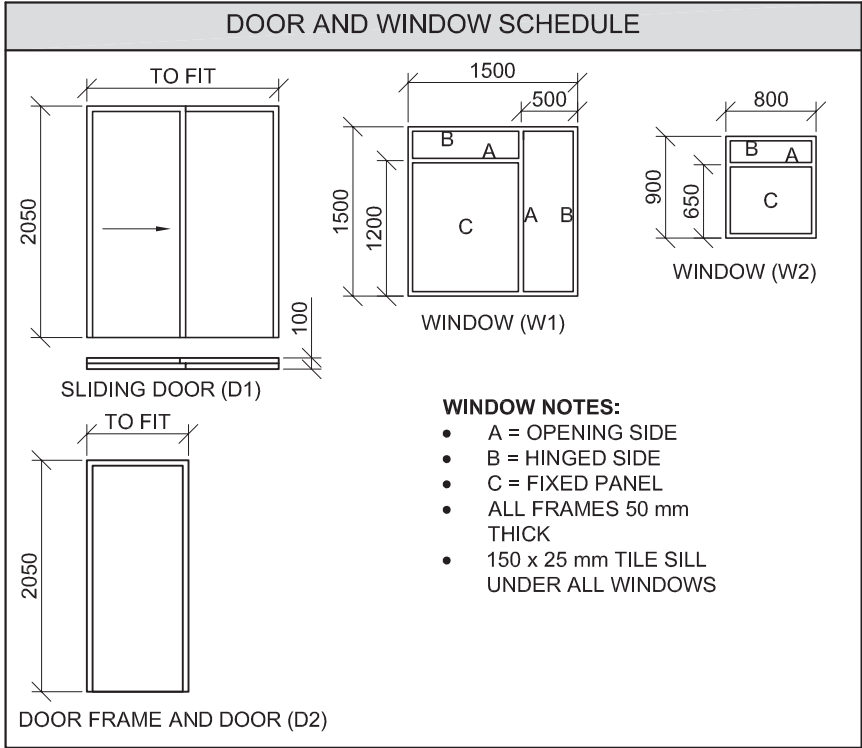
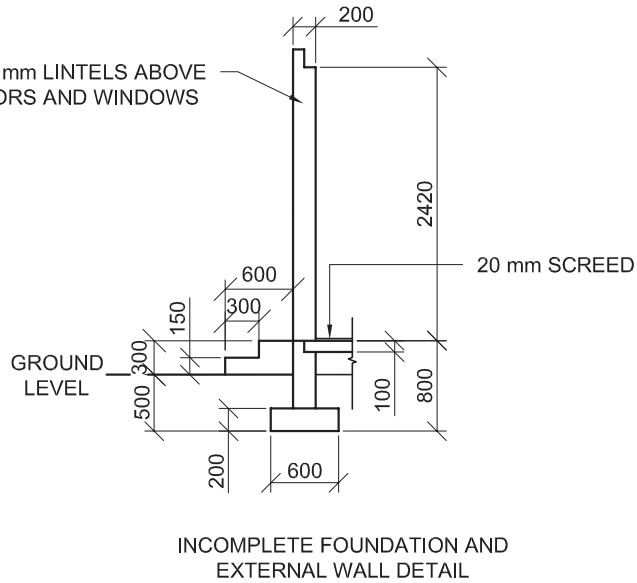
10 mm FIBRE CEMENT ROOF SHEETING ON  
75 x 50 mm PURLINS SPACED ACCORDING TO  
SCHEMATIC DIAGRAMS

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  
BRANDERING STRIPS @ 450 c/c

200 x 80 mm LINTELS ABOVE  
ALL DOORS AND WINDOWS



#### 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:

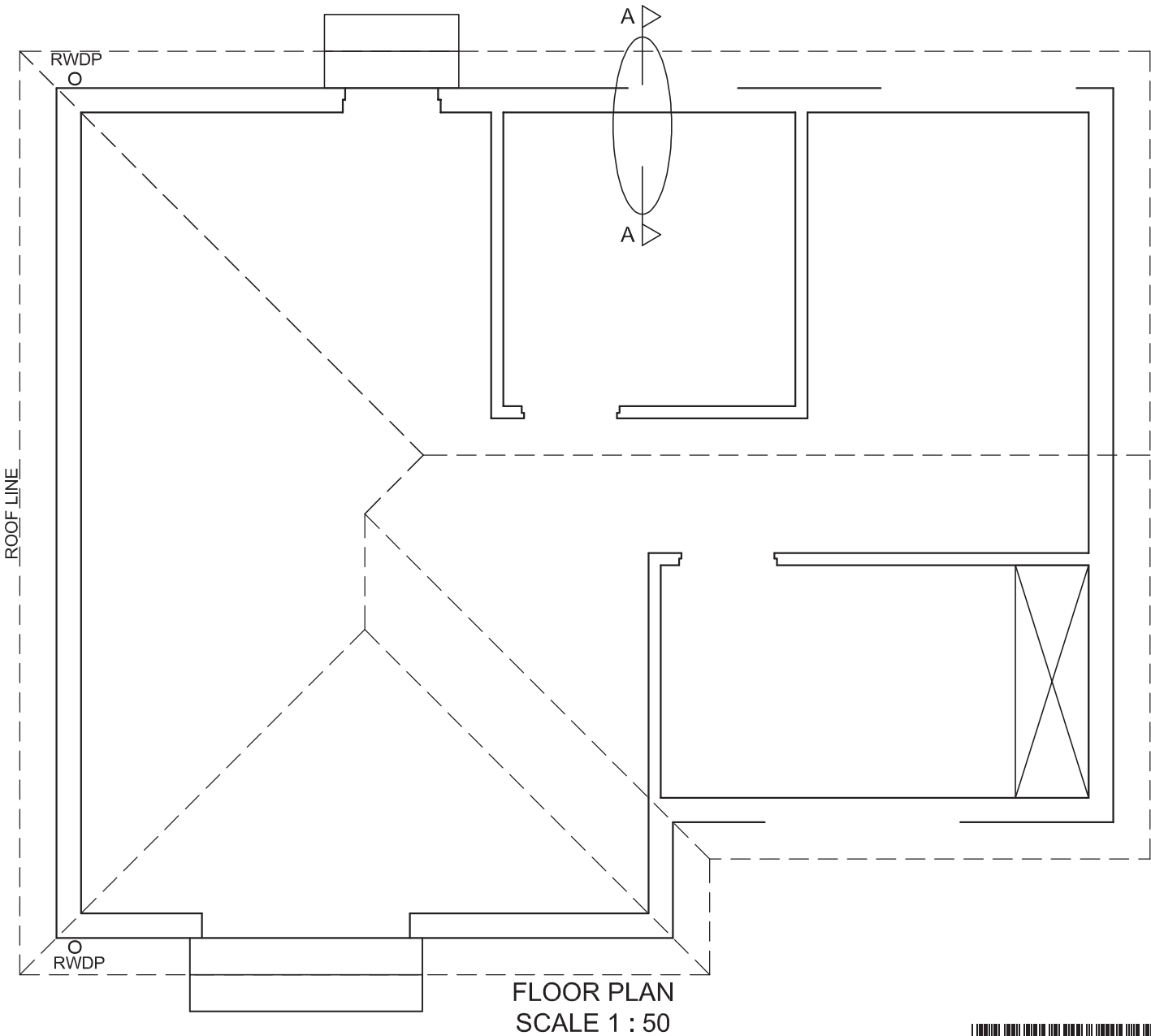
- The south-east elevation
- The room designations and floor finishes
- Ground level, finished floor level, damp-proof course and built-in cupboard (use the correct abbreviations and show them on all the relevant views)

##### NOTE:

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



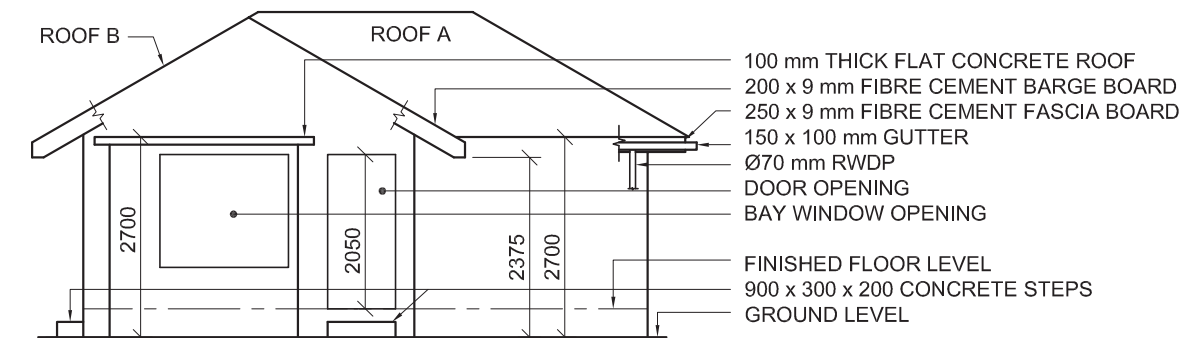




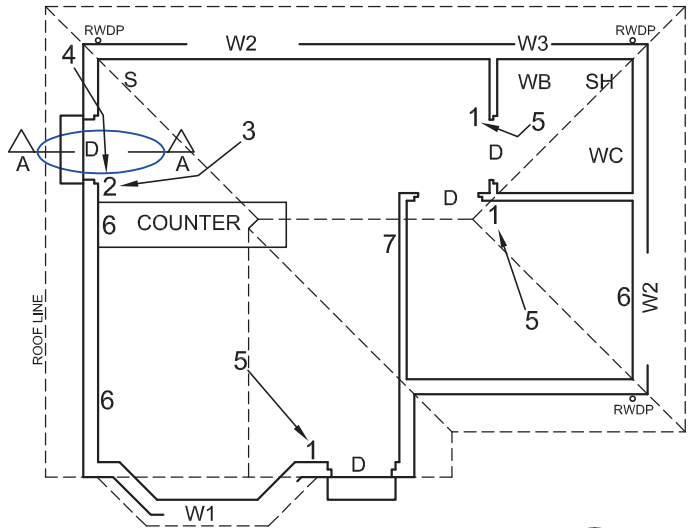
1. MARK ALLOCATION FOR ROOF SECTION		FOR OFFICIAL USE ONLY	
A (1)		INCORRECT SCALE(S) USED	
B (1)		NON-ALIGNMENT OF VIEWS	
C (2)		VIEW(S) ROTATED	
D (3)		SECTION VIEWED INCORRECTLY	
E (2)		INCORRECT LETTERING	
F (1)			
G (1)			
H (1)			
I (1)			
TOTAL		TOTAL	

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





INCOMPLETE WEST ELEVATION



INCOMPLETE FLOOR PLAN



FEATURES

D DOOR  
W1 TO W3 WINDOWS

FIXTURES

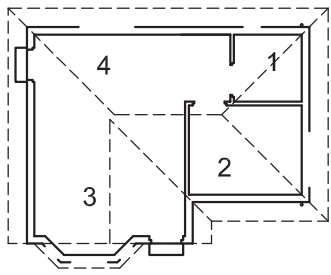
WC TOILET  
WB WASHBASIN  
SH SHOWER  
S SINK

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.

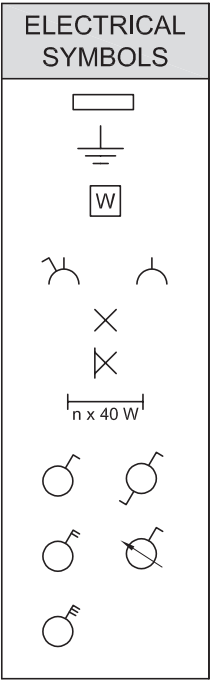


ROOM DESIGNATIONS

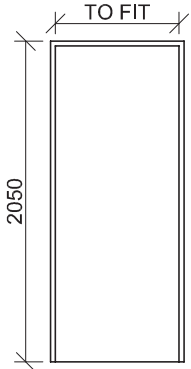
FLOOR FINISHES

1 BATHROOM: TILE  
2 BEDROOM: CARPET  
3 LOUNGE: CARPET  
4 KITCHEN: TILE

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

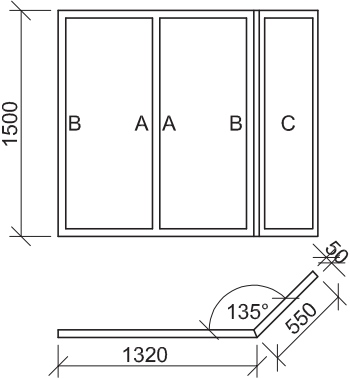


DOOR AND WINDOW SCHEDULE

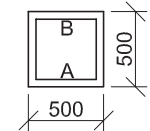


DOOR FRAME AND DOOR (D)

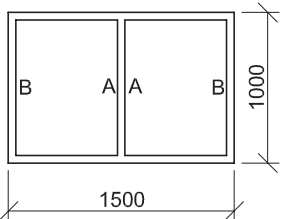
DOOR NOTE:  
TWO 75 x 100 mm LINTELS ABOVE THE DOOR



BAY WINDOW (W1)



WINDOW (W3)



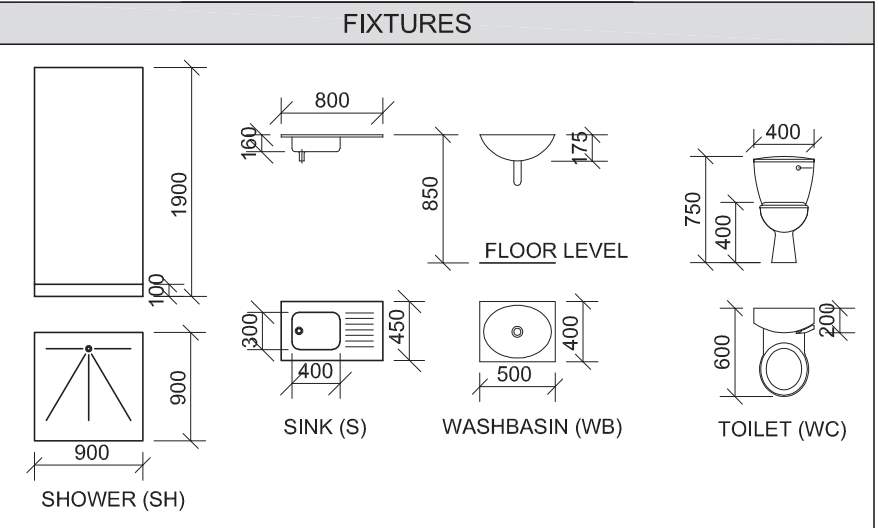
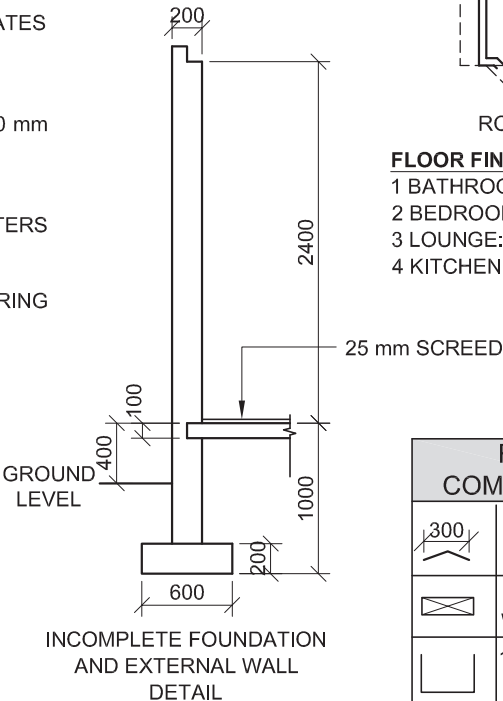
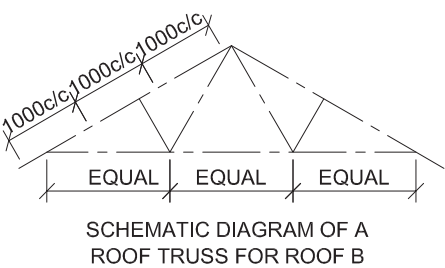
WINDOW (W2)

WINDOW NOTES:

A = OPENING SIDE  
B = HINGED SIDE  
C = FIXED PANEL  
150 x 20 mm FIBRE CEMENT SILL UNDER ALL WINDOWS

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



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.

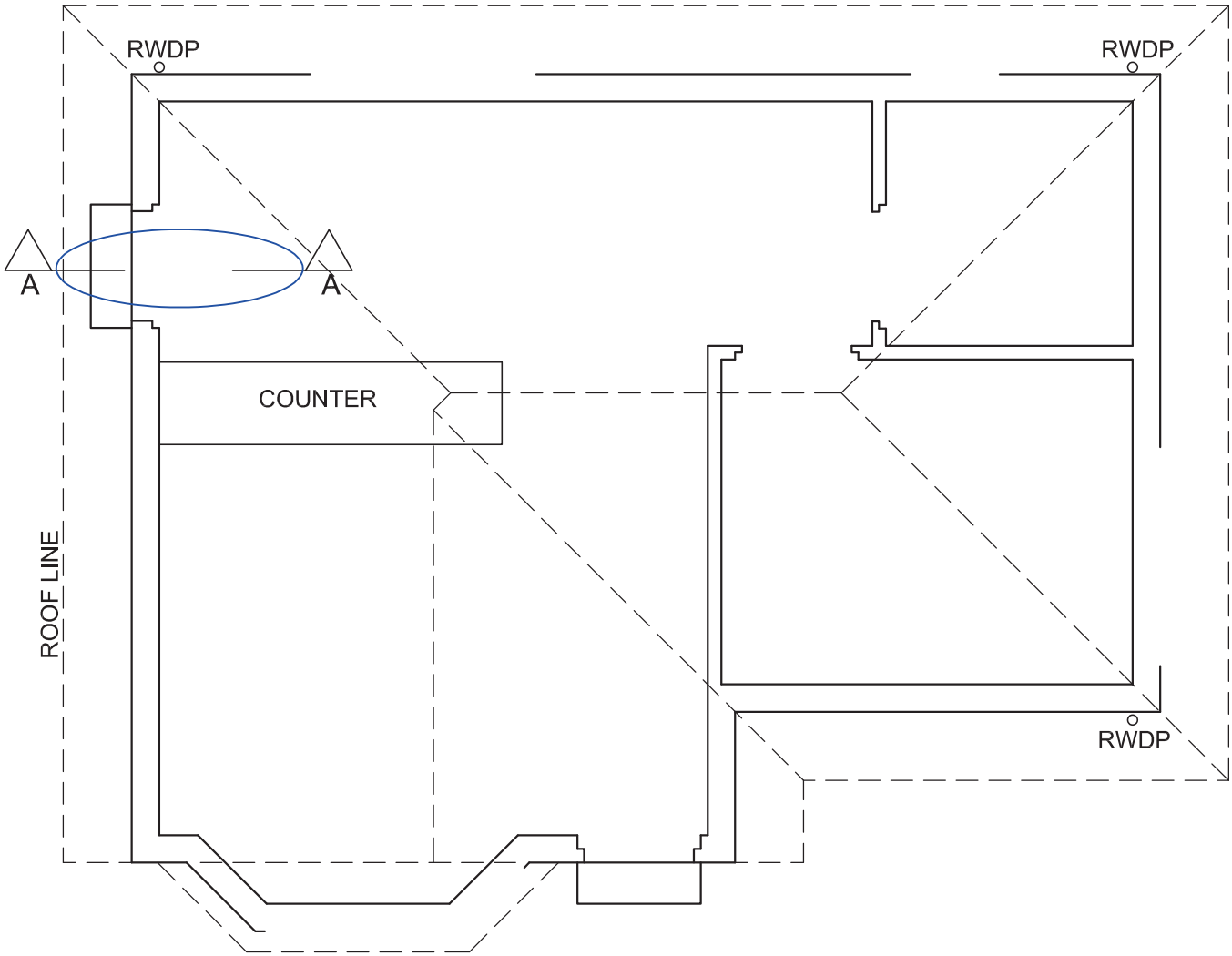
Label the following:

- 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

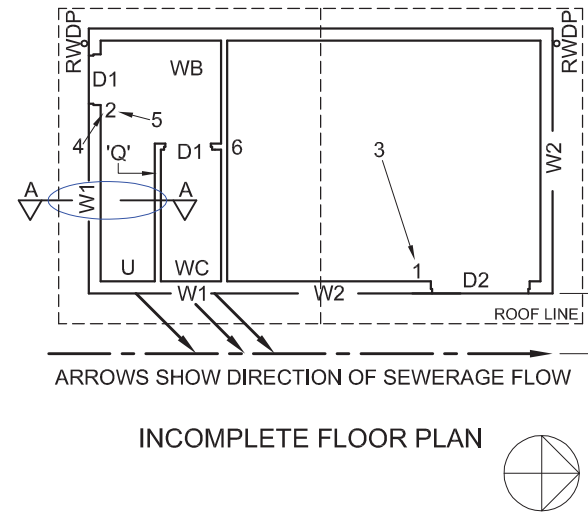
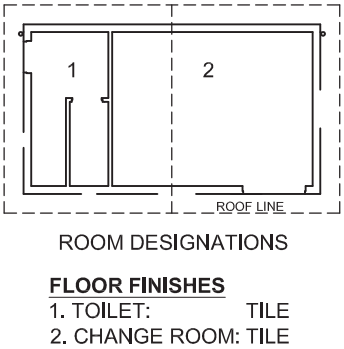
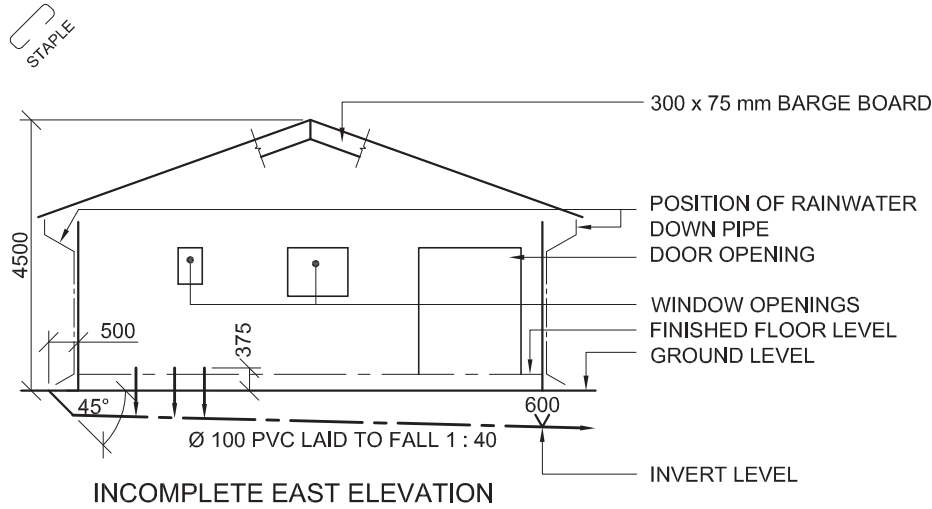
FLOOR PLAN  
SCALE 1 : 50

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

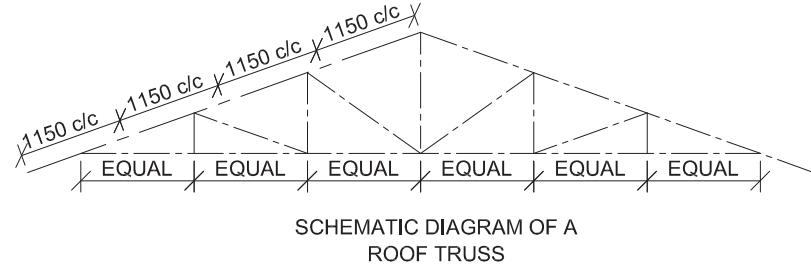
MARK ALLOCATION FOR ROOF SECTION										
A	B	C	D	E	F	G	H	I	J	

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					6

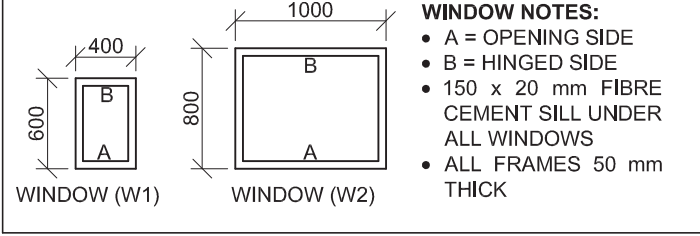
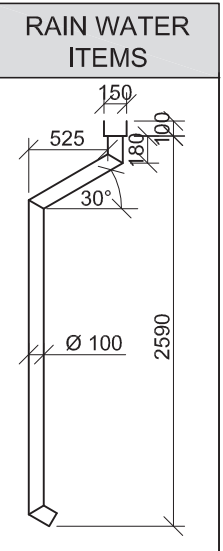
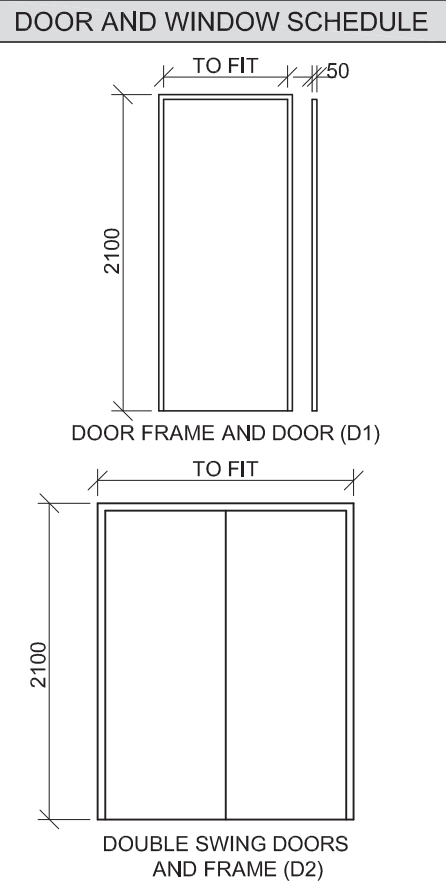
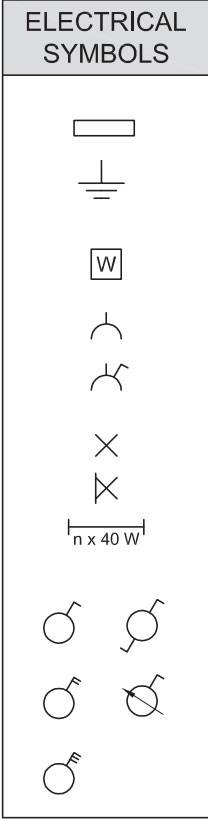
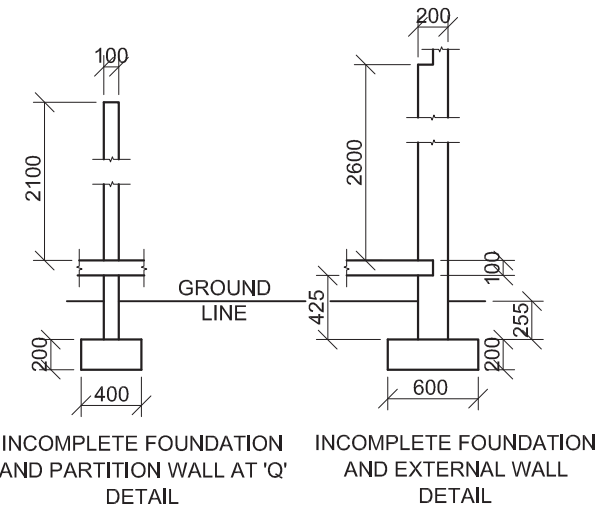




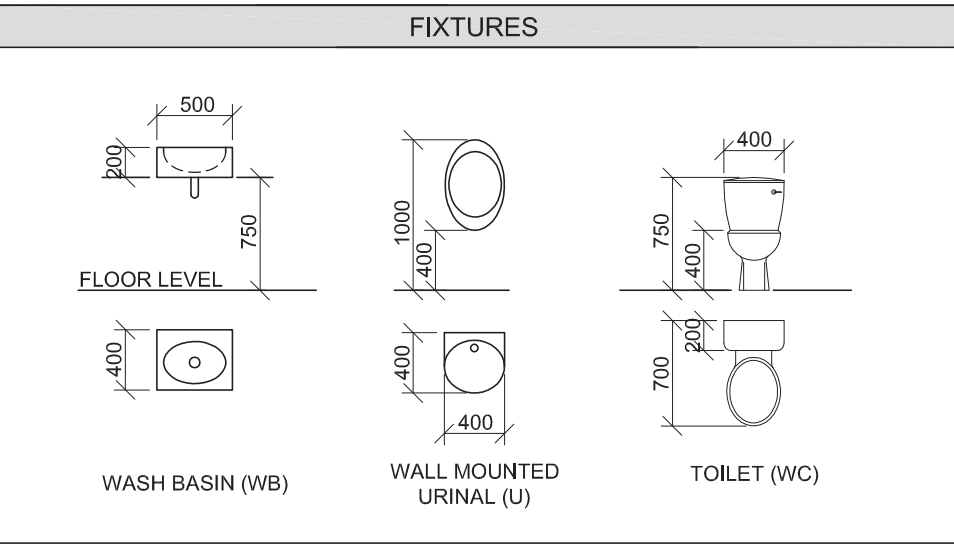
- FEATURES**
- D1 DOOR
  - D2 DOUBLE DOOR
  - W1 & W2 WINDOWS
- FIXTURES**
- WC TOILET
  - WB WASH BASIN
  - U SINGLE WALL-MOUNTED URINAL
- ELECTRICAL FITTINGS**
- 1. ONE-WAY SWITCH - SINGLE-POLE
  - 2. ONE-WAY SWITCH - DOUBLE-POLE
  - 3. FLUORESCENT LIGHT 4 x 40 W
  - 4. WALL-MOUNTED LIGHT
  - 5. CEILING LIGHT
  - 6. SWITCHED SOCKET OUTLET
- NOTE:**
- THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



- ROOF 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



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



**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:

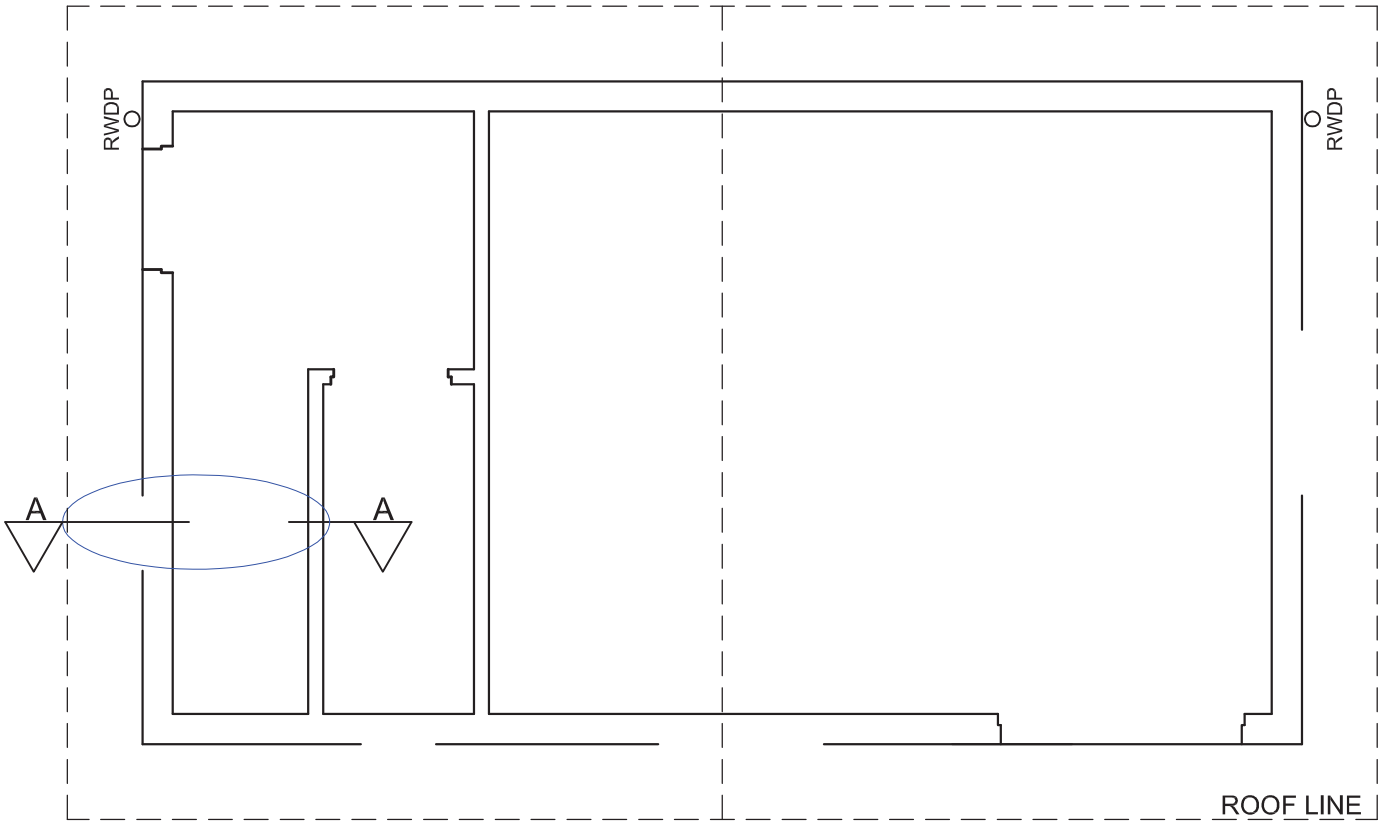
- The complete foundation and external wall detail
- The complete foundation and partition wall detail
- The window detail
- The roof detail, including the fascia board, gutter, rainwater down-pipe and barge board
- ALL features and fixtures in front of the section
- ALL hatching detail. ONLY the substructure 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 PLAN  
SCALE 1 : 50

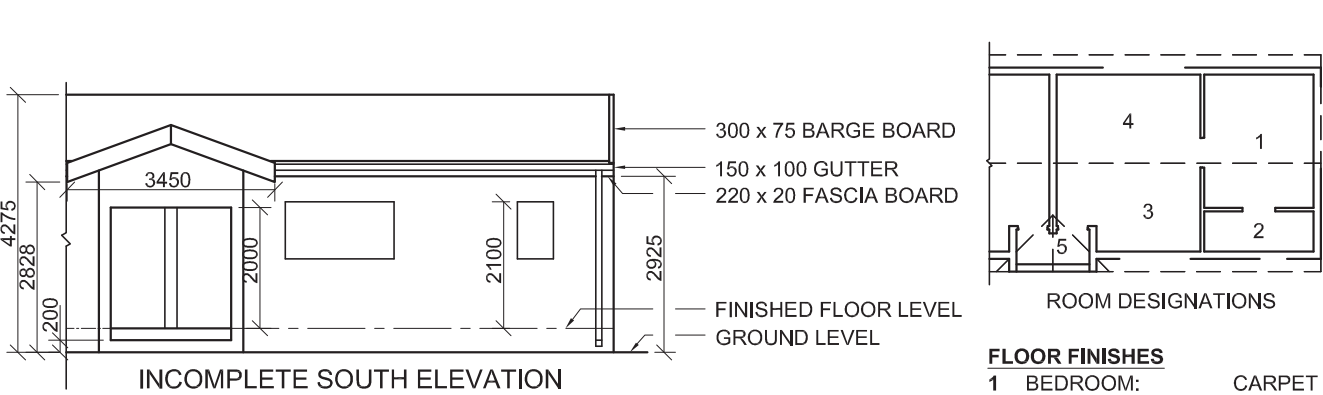


DETAILED SECTION A-A  
SCALE 1 : 20

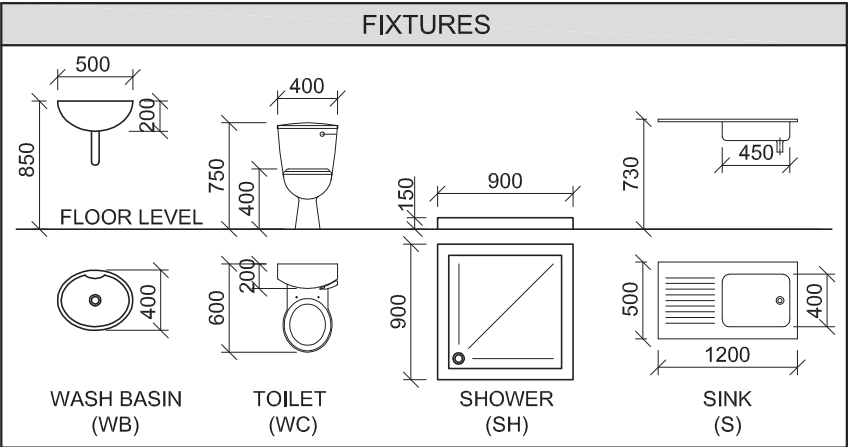
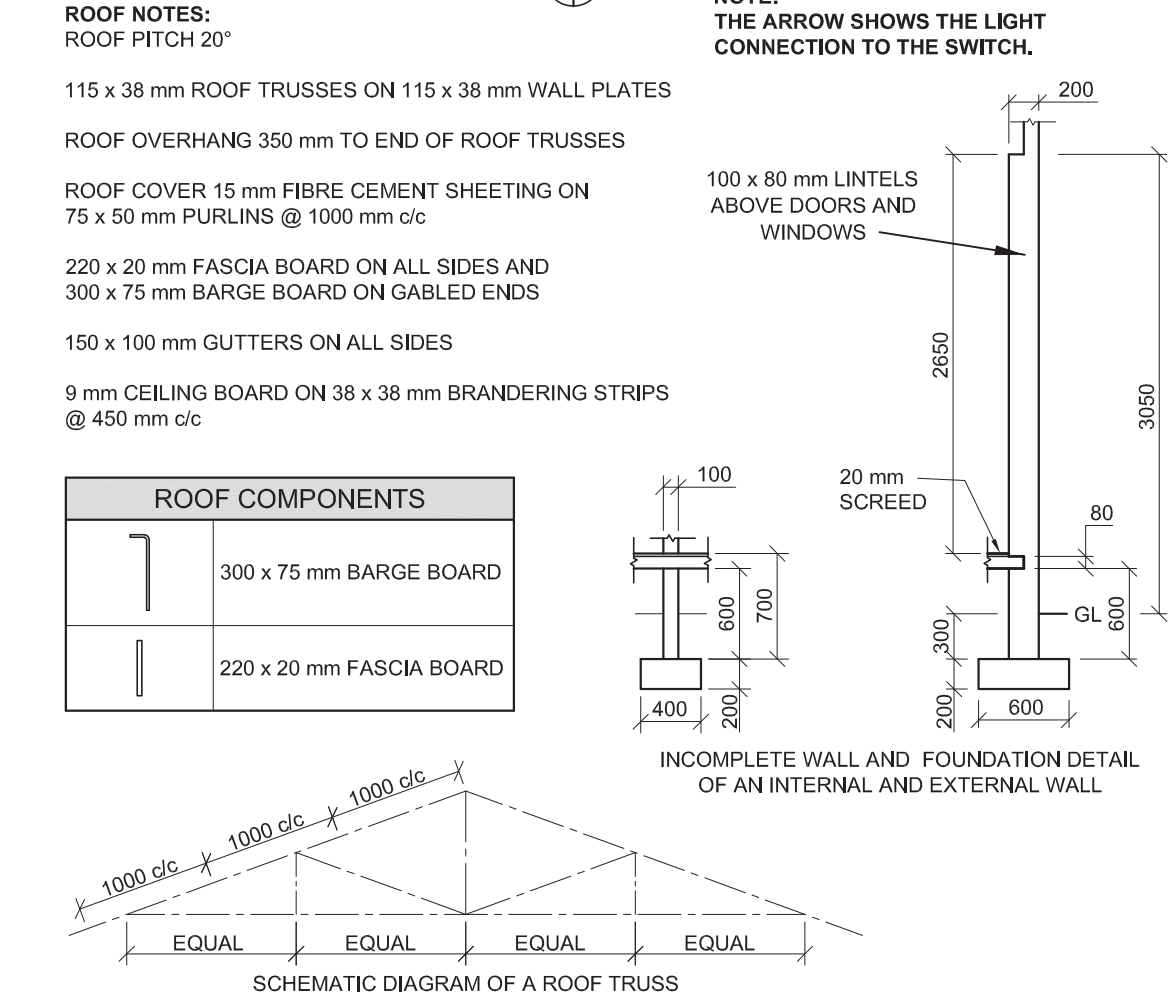
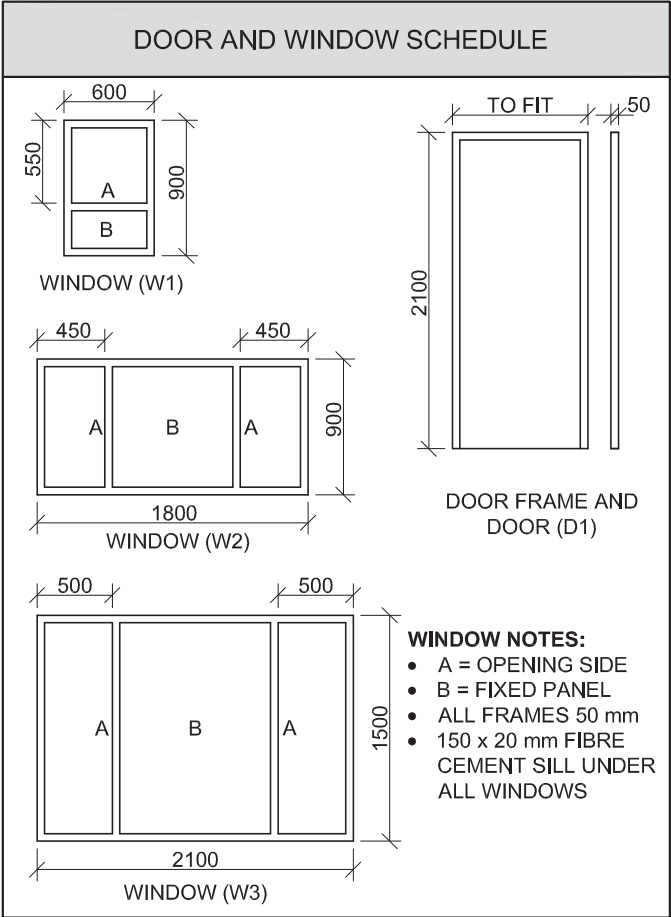
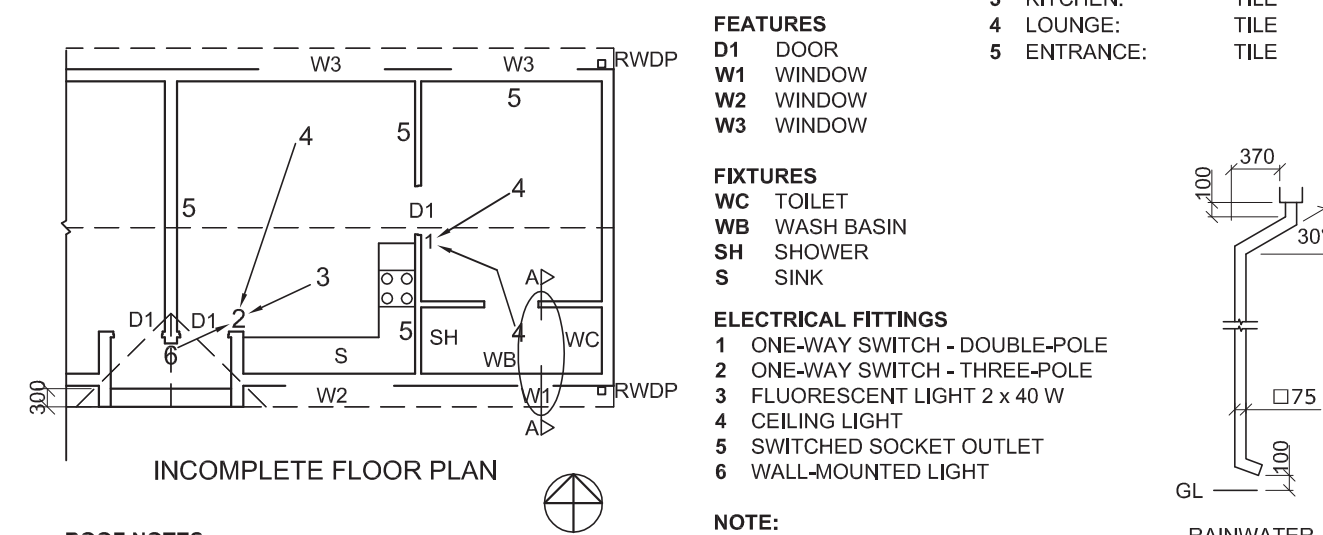


FOR OFFICIAL USE ONLY												
INCORRECT SCALE												
EAST ELEVATION NOT ALIGNED												
VIEW(S) ROTATED												
SECTION VIEWED INCORRECTLY												
INCORRECT LETTERING												
PENALTIES TOTAL (-)												
MARK ALLOCATION FOR ROOF SECTION (4.2)												
A	B	C	D	E	F	G	H	I	J	K		
ASSESSMENT CRITERIA												
FLOOR PLAN												
				POSSIBLE		OBTAINED		SIGN		MODERATED		
1	DOORS + WINDOWS			12								
2	ELECTRICAL			5								
3	FIXTURES			6								
4	HATCHING			3								
5	LABELS			2½								
6	PLUMBING			2								
SUBTOTAL				30½								
EAST ELEVATION												
1	ROOF + RWDP			6½								
2	WALLS + FFL			2½								
3	DOOR + WINDOW			9½								
4	LABELS			2								
5	PLUMBING			3								
SUBTOTAL				23½								
DETAILED SECTION												
1	ROOF DETAIL + RWDP			13								
2	FOUNDATION + WALL + SLAB			13								
3	URINAL			2½								
4	HATCHING			6								
5	LABELS			1½								
6	WINDOW			2								
SUBTOTAL				38								
TOTAL				92								
PENALTY (-)												
GRAND TOTAL												
EXAMINATION NUMBER												
EXAMINATION NUMBER											6	





ELECTRICAL SYMBOLS	



QUESTION 4: CIVIL DRAWING

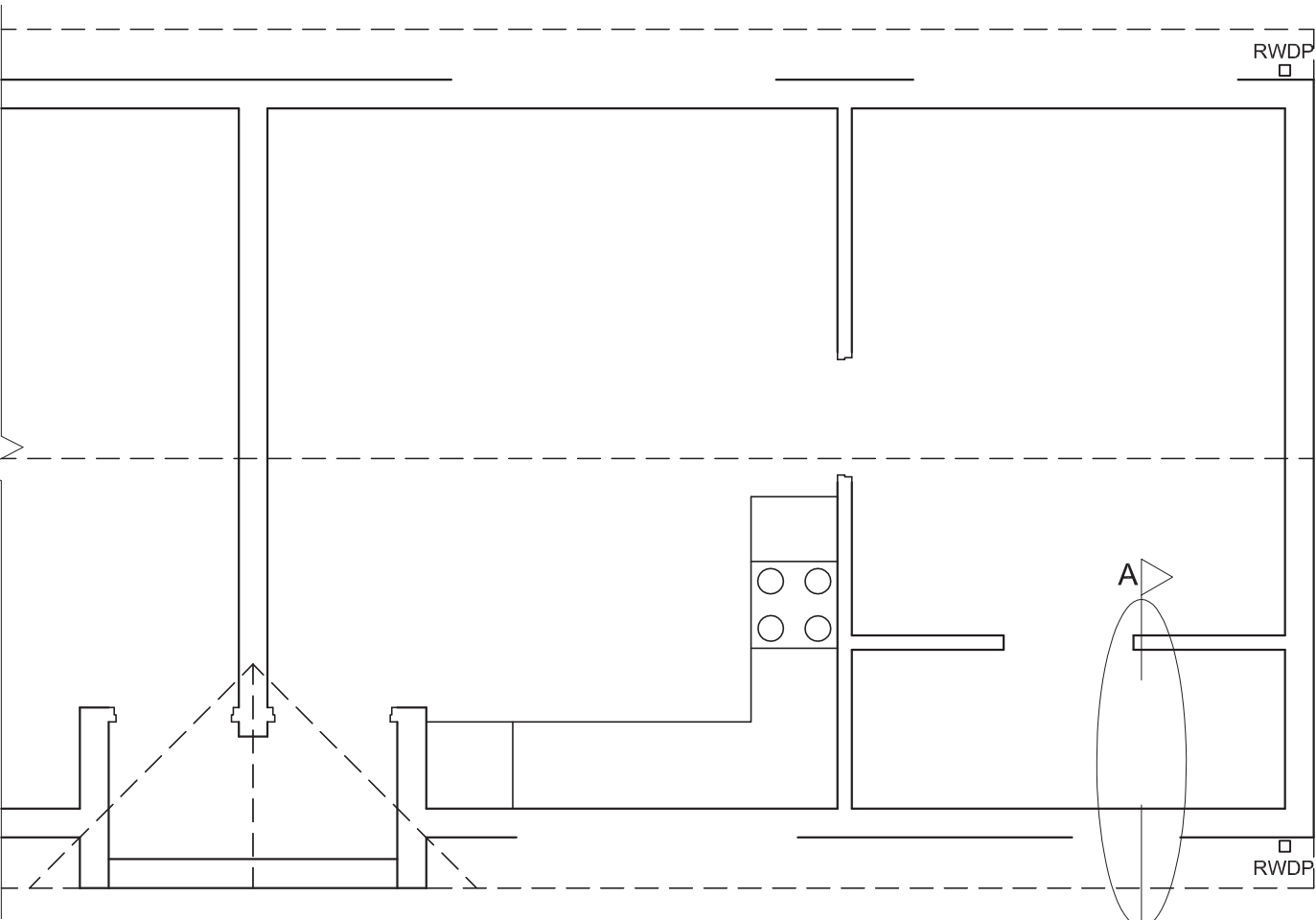
- Given:**
- The incomplete south elevation of the eastern unit and entrance of a **new cluster house**, showing the walls, the door and window openings, the roof and notes
  - The incomplete floor plan showing the walls, positions of the doors, windows, fixtures and electrical layout
  - Roof notes, 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**.



FLOOR PLAN  
SCALE 1 : 50



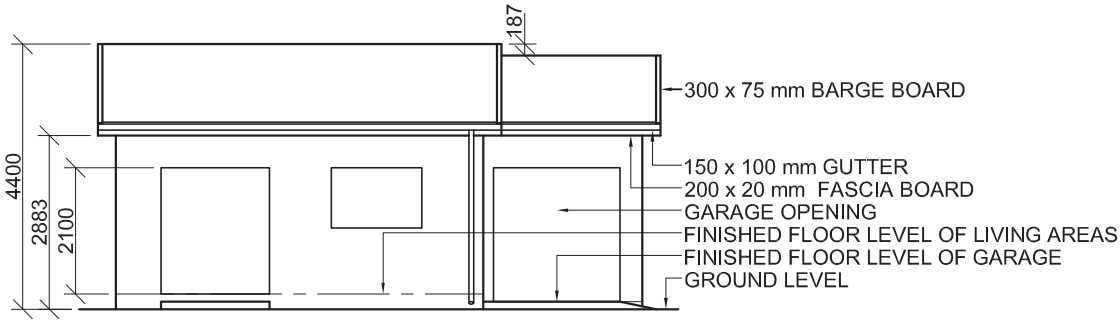
SECTION A-A  
SCALE 1 : 20

1. MARK ALLOCATION FOR SECTION OF ROOF		FOR OFFICIAL USE ONLY	
A (1)		INCORRECT SCALE	
B (1)		INCORRECT POSITIONING OF VIEWS	
C (2)		ROTATED VIEWS	
D (3)		PRINTED CAPITAL LETTERS	
E (1)			
F (1)			
G (1)			
H (1)			
I (3)			
TOTAL		TOTAL	

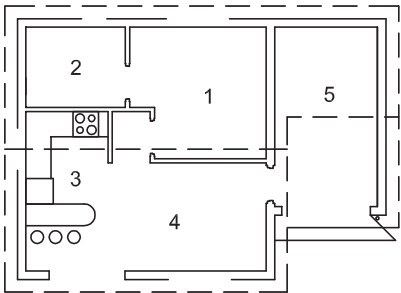
ASSESSMENT CRITERIA				
FLOOR PLAN				
1	DOORS + WINDOWS	11		
2	ELECTRICAL	8 <sup>1</sup> / <sub>2</sub>		
3	FIXTURES	7 <sup>1</sup> / <sub>2</sub>		
4	HATCHING	4		
5	LABELS	4		
SUBTOTAL		35		
SOUTH ELEVATION				
1	ROOF	6 <sup>1</sup> / <sub>2</sub>		
2	WALLS + RWDP + FFL + GUTTER	7 <sup>1</sup> / <sub>2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







INCOMPLETE SOUTH ELEVATION

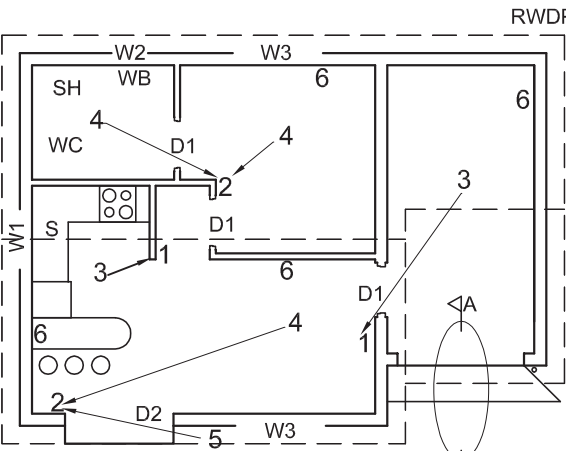


ROOM DESIGNATIONS

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



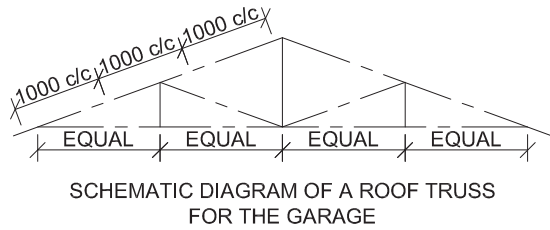
INCOMPLETE FLOOR PLAN

- 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.



**ROOF NOTES:**  
ROOF PITCH 20°

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

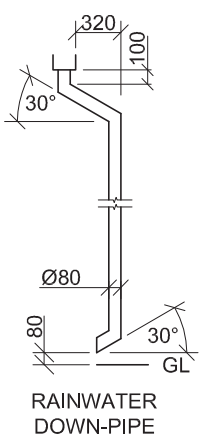
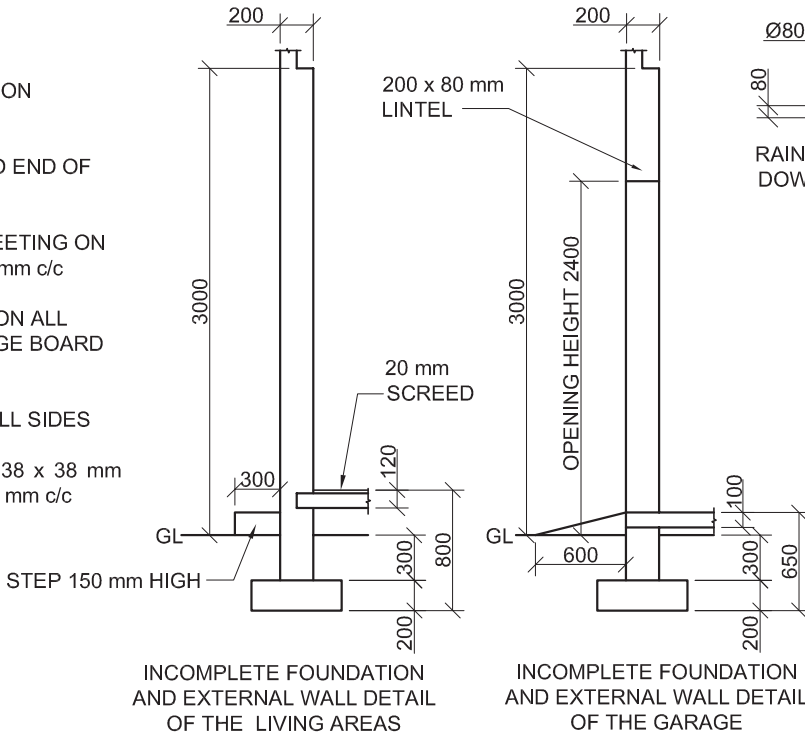
ROOF OVERHANG 300 mm TO END OF  
ROOF TRUSSES

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



DOOR AND WINDOW SCHEDULE		
WINDOW (W1)	DOOR FRAME AND DOOR (D1)	SLIDING DOOR (D2)
WINDOW (W2)		
WINDOW (W3)		
<b>WINDOW NOTES:</b> <ul style="list-style-type: none"><li>A = OPENING SIDE</li><li>B = FIXED PANEL</li><li>ALL FRAMES 40 mm</li><li>150 x 20 mm FIBRE CEMENT SILL UNDER ALL WINDOWS</li></ul>		

FIXTURES			
WASH BASIN (WB)	TOILET (WC)	SHOWER (SH)	SINK (S)

**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:**

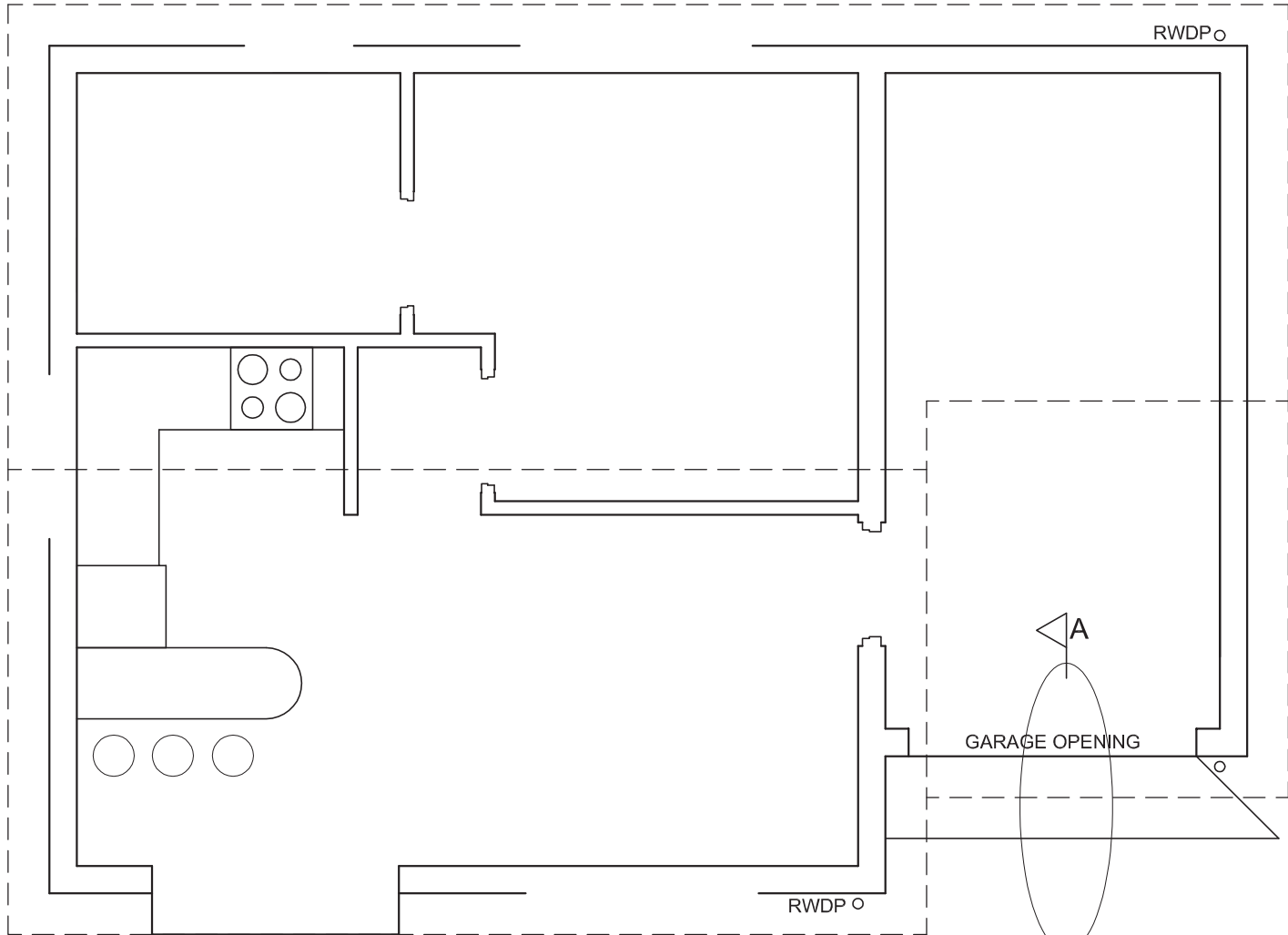
- The foundation, wall and garage opening detail
- The roof detail, including the fascia board and gutter
- ALL the external features of the **new house** to the left (west) of the ellipse
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

**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**.



FLOOR PLAN  
SCALE 1 : 50

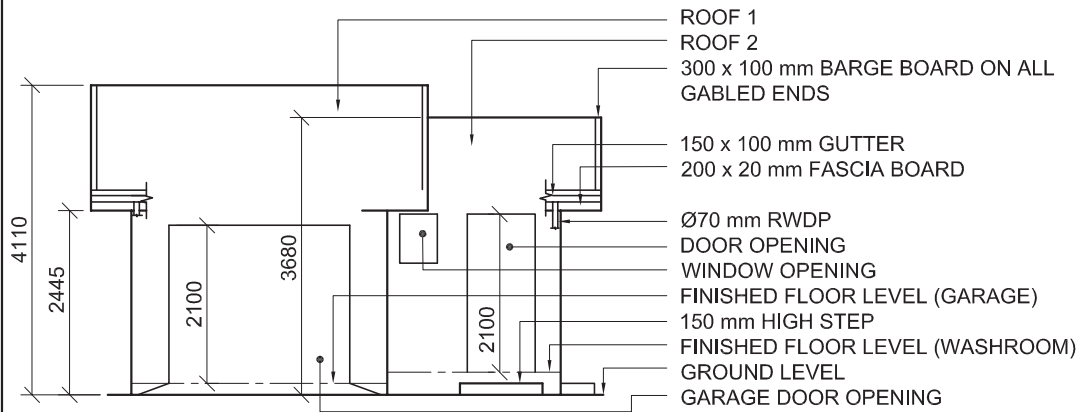


SECTION A-A  
SCALE 1 : 20

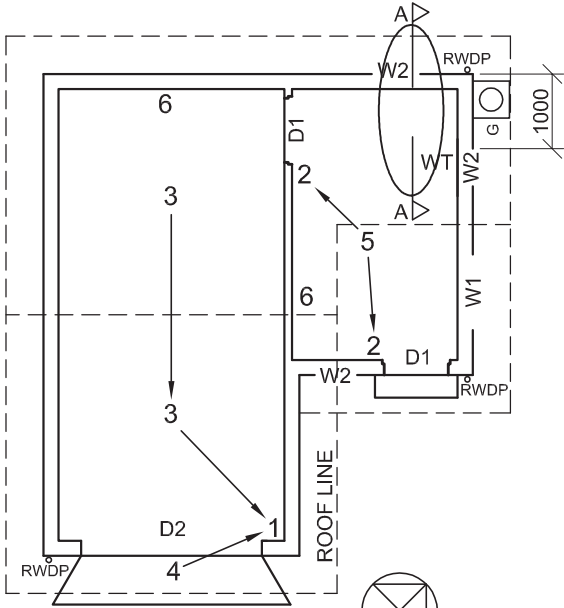
1. MARK ALLOCATION FOR SECTION OF ROOF		FOR OFFICIAL USE ONLY	
A (1)		INCORRECT SCALE	
B (1)		INCORRECT POSITIONING OF VIEWS	
C (1)		NON-ALIGNMENT OF VIEWS	
D (2)			
E (1)			
F (1)			
G (1)			
H (1)			
I (2)			
TOTAL		TOTAL	

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 <sup>1</sup> / <sub>2</sub>			
2	WALLS + RWDP + FFL	7			
3	DOOR + WINDOW	10			
4	LABELS	1			
SUBTOTAL		23 <sup>1</sup> / <sub>2</sub>			
DETAILED SECTION					
1	ROOF	11			
2	FOUNDATION + WALLS + SLAB	7			
3	GUTTER + RWDP	4			
4	HATCHING	5			
5	LABELS	<sup>1</sup> / <sub>2</sub>			
SUBTOTAL		27 <sup>1</sup> / <sub>2</sub>			
TOTAL		93			
PENALTIES (-)					
GRAND TOTAL					
EXAMINATION NUMBER					
EXAMINATION NUMBER					
6					





INCOMPLETE SOUTH-EAST ELEVATION



INCOMPLETE FLOOR PLAN

FEATURES

- D1 DOOR
- D2 GARAGE DOOR
- W1 WINDOW
- W2 WINDOW

FIXTURE

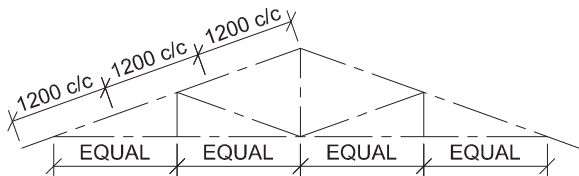
- WT WASHTUB

ELECTRICAL FITTINGS

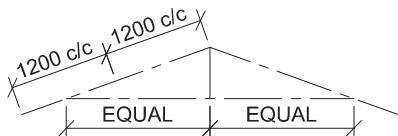
- 1. ONE-WAY SWITCH - DOUBLE-POLE
- 2. TWO-WAY SWITCH
- 3. FLUORESCENT LIGHT 2 x 40 W
- 4. WALL-MOUNTED LIGHT
- 5. CEILING LIGHT
- 6. SWITCHED SOCKET OUTLET

NOTE:

THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



SCHEMATIC DIAGRAM OF A TRUSS FOR ROOF '1'



SCHEMATIC DIAGRAM OF A TRUSS FOR ROOF '2'

ROOF NOTES:

ROOF PITCH 20°

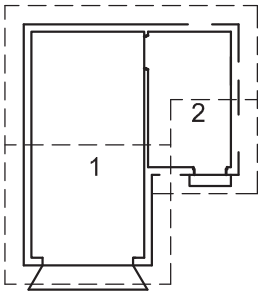
200 x 20 mm FASCIA BOARD ON ALL SIDES AND 300 x 20 mm BARGE BOARD ON THE GABLED ENDS

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



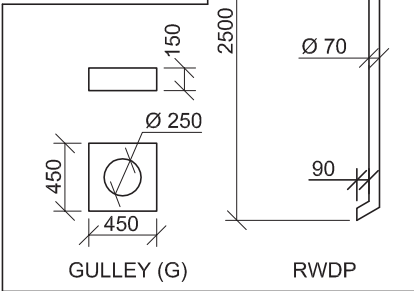
ROOM DESIGNATIONS

FLOOR FINISHES

- 1 GARAGE: GRANO
- 2 WASHROOM: TILE

ELECTRICAL SYMBOLS	

RAINWATER ITEMS	



FIXTURE	

DOOR AND WINDOW SCHEDULE	
	TO FIT
	TO FIT
	50
	DOOR FRAME
	DOOR (D1)
	1000
	HINGED SIDE
	OPENING SIDE
	FIXED PANEL
	WINDOW FRAME (W1)
	500
	650
	HINGED SIDE
	OPENING SIDE
	WINDOW FRAME (W2)
	NOTE: 150 x 20 mm FIBRE CEMENT SILL UNDER ALL WINDOWS
	Ø450
	2500
	ROLL-UP GARAGE DOOR (D2)

ROOF COMPONENTS	
	300
	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:

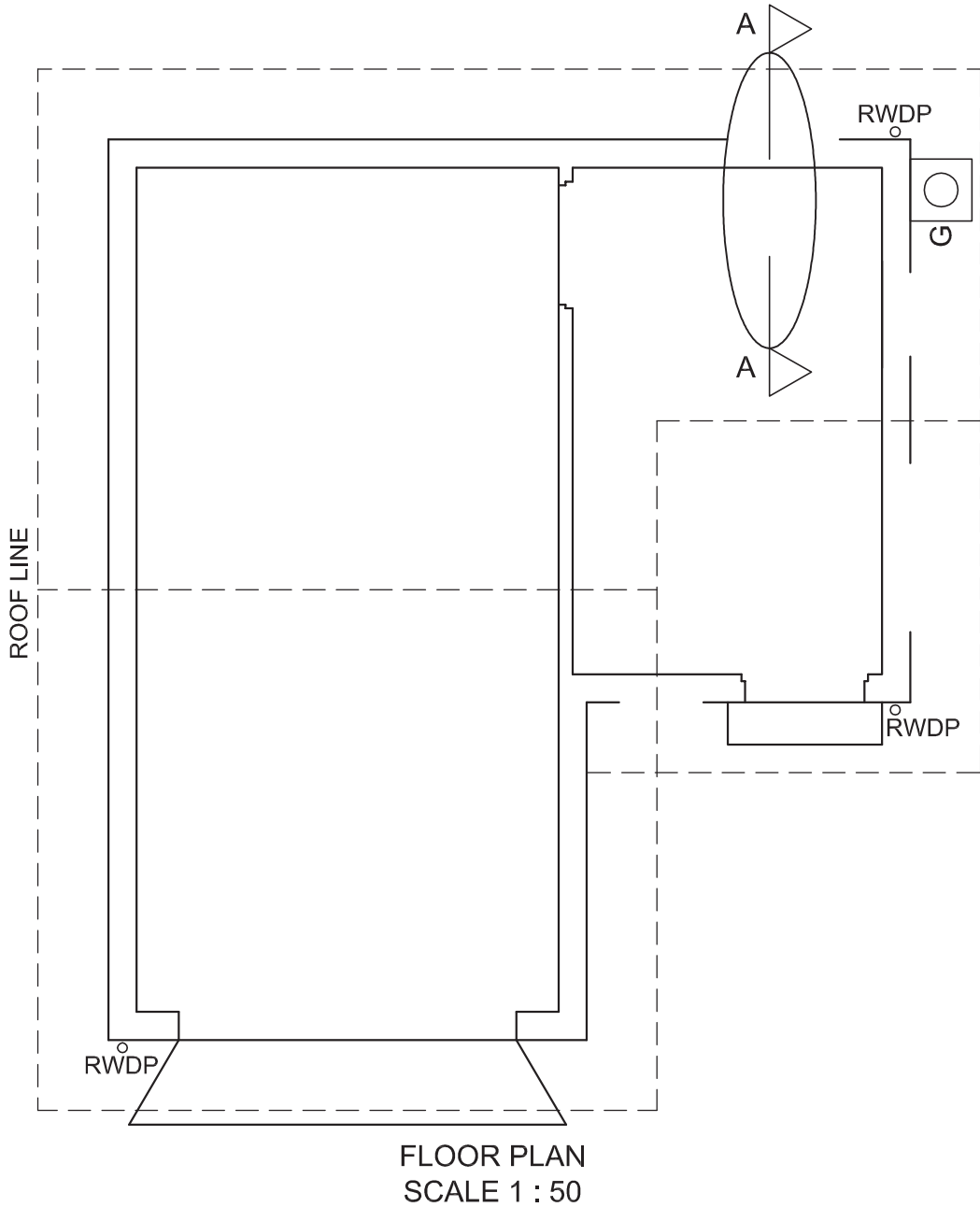
- The complete foundation and external wall detail
- The window detail, with a DOUBLE lintel
- The roof detail, including the fascia board and gutter
- ALL features and fixtures to the right of the section
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat freehand.

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**.



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					
EXAMINATION NUMBER					6





INCOMPLETE NORTH ELEVATION

INCOMPLETE FLOOR PLAN

INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL

ROOF 1  
ROOF 2  
200 x 20 mm BARGE BOARD  
200 x 20 mm FASCIA BOARD  
100 x 150 mm GUTTER  
Ø80 mm RWDP  
DOOR OPENING  
WINDOW OPENING  
FINISHED FLOOR LEVEL  
GROUND LEVEL

ROOM DESIGNATIONS

FLOOR FINISHES

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

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

WINDOW AND DOOR SCHEDULE

WINDOW (W1)	DOOR FRAME AND DOOR (D)
WINDOW (W2)	

WINDOW NOTES:

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

GULLEY

ROOF COMPONENTS

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

ELECTRICAL SYMBOLS


FIXTURES

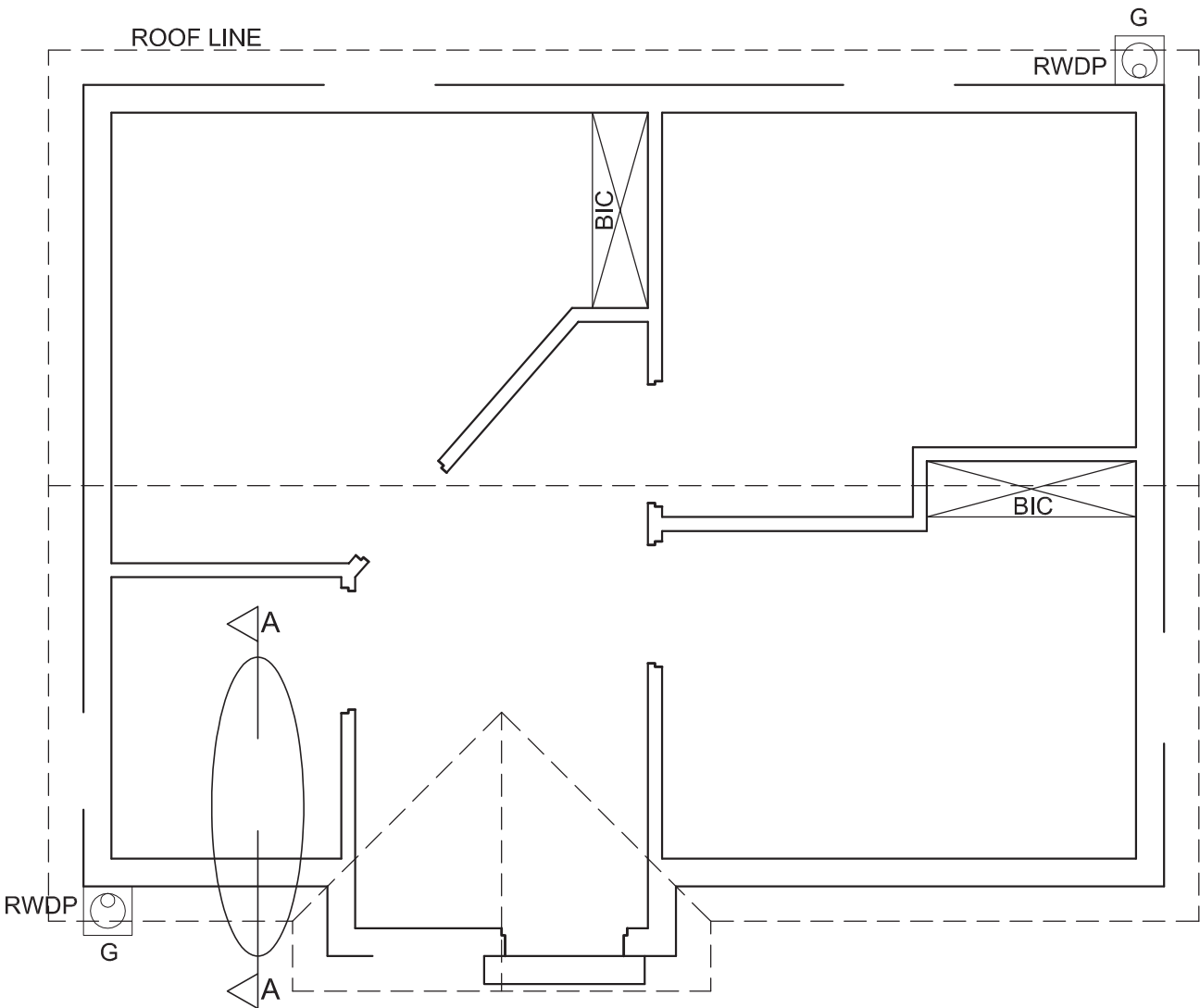
TOILET (WC)	WASH BASIN (WB)

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]



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 (-)		

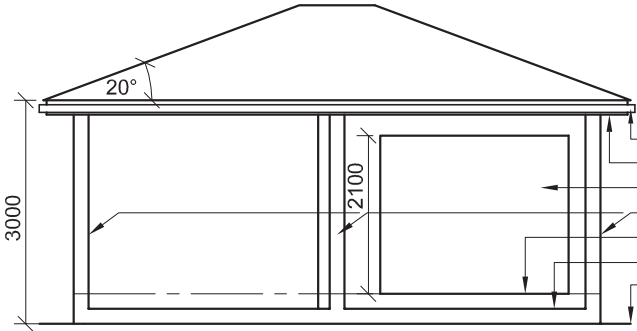
MARK ALLOCATION FOR SECTION OF ROOF (4.2 No. 1)										
A	B	C	D	E	F	G	H	I	J	

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			

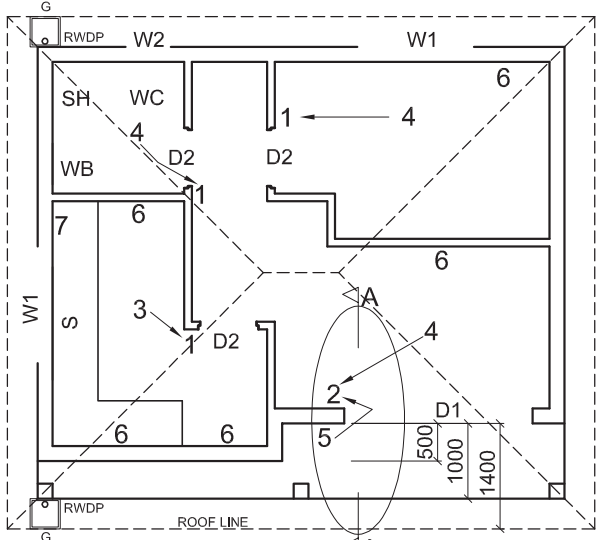
NORTH ELEVATION					
1	ROOF	8½			
2	WALLS + RWDP + FFL + GULLEY	6½			
3	DOOR + WINDOW	6			
4	LABELS	1½			
SUBTOTAL		22½			

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					
EXAMINATION NUMBER					6



INCOMPLETE SOUTH-WEST ELEVATION



INCOMPLETE FLOOR PLAN

ROOF NOTES:

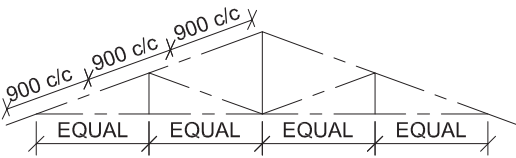
ROOF PITCH 20° WITH 200 x 20 mm FACIA BOARD ON ALL SIDES

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

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

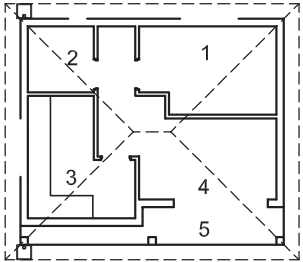
100 x 150 mm GUTTER ON ALL SIDES



SCHEMATIC DIAGRAM OF A ROOF TRUSS

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

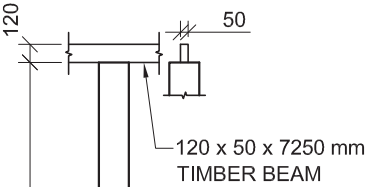
- WC TOILET
- WB WASH BASIN
- SH SHOWER
- S SINK

ELECTRICAL FITTINGS

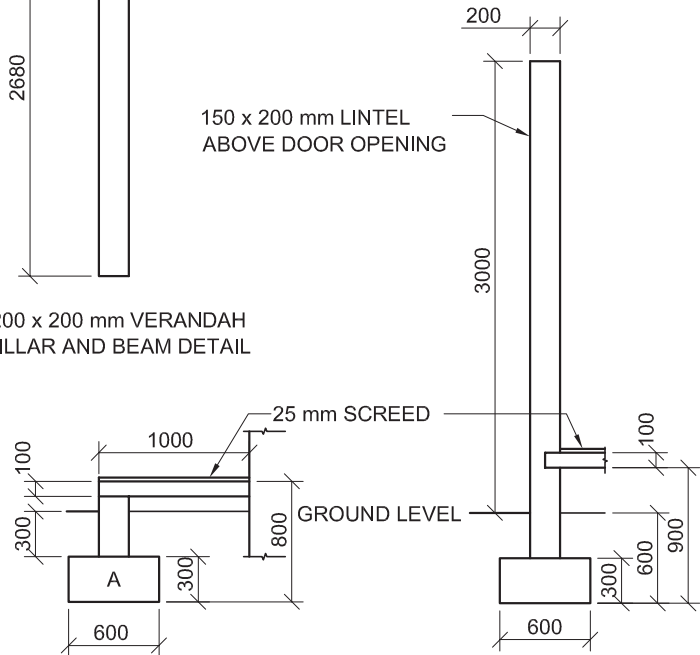
- 1. LIGHT SWITCH - SINGLE-POLE
- 2. LIGHT SWITCH - DOUBLE-POLE
- 3. FLUORESCENT LIGHT 2 x 40 W
- 4. CEILING LIGHT
- 5. WALL MOUNTED LIGHT
- 6. SWITCHED SOCKET OUTLET
- 7. DISTRIBUTION BOARD

NOTE:

THE ARROW SHOWS THE LIGHT CONNECTION TO THE SWITCH.



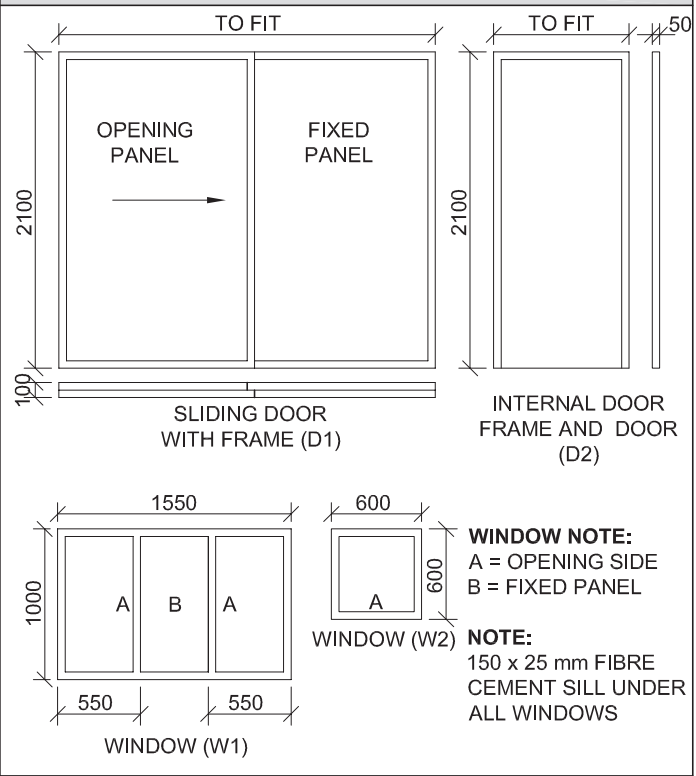
200 x 200 mm VERANDAH PILLAR AND BEAM DETAIL



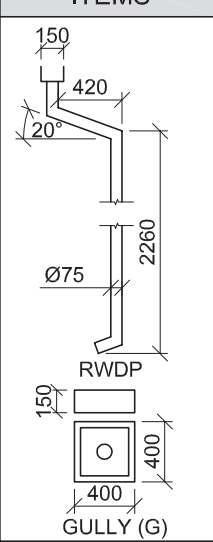
INCOMPLETE FOUNDATION 'A' AND VERANDAH DETAIL

INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL

DOOR AND WINDOW SCHEDULE



RAINWATER ITEMS

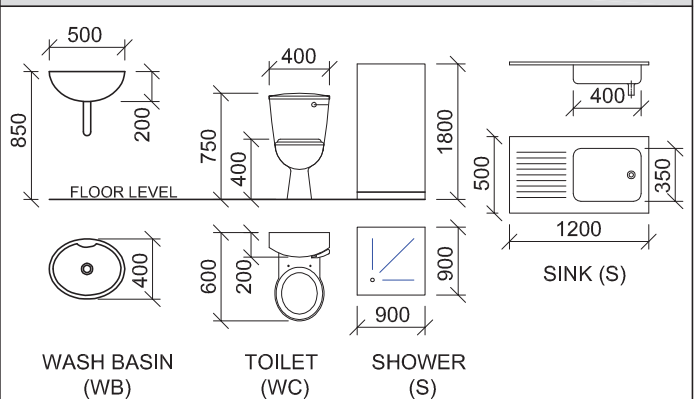


ROOF COMPONENTS

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

ELECTRICAL SYMBOLS


FIXTURES



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, rain-water 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:

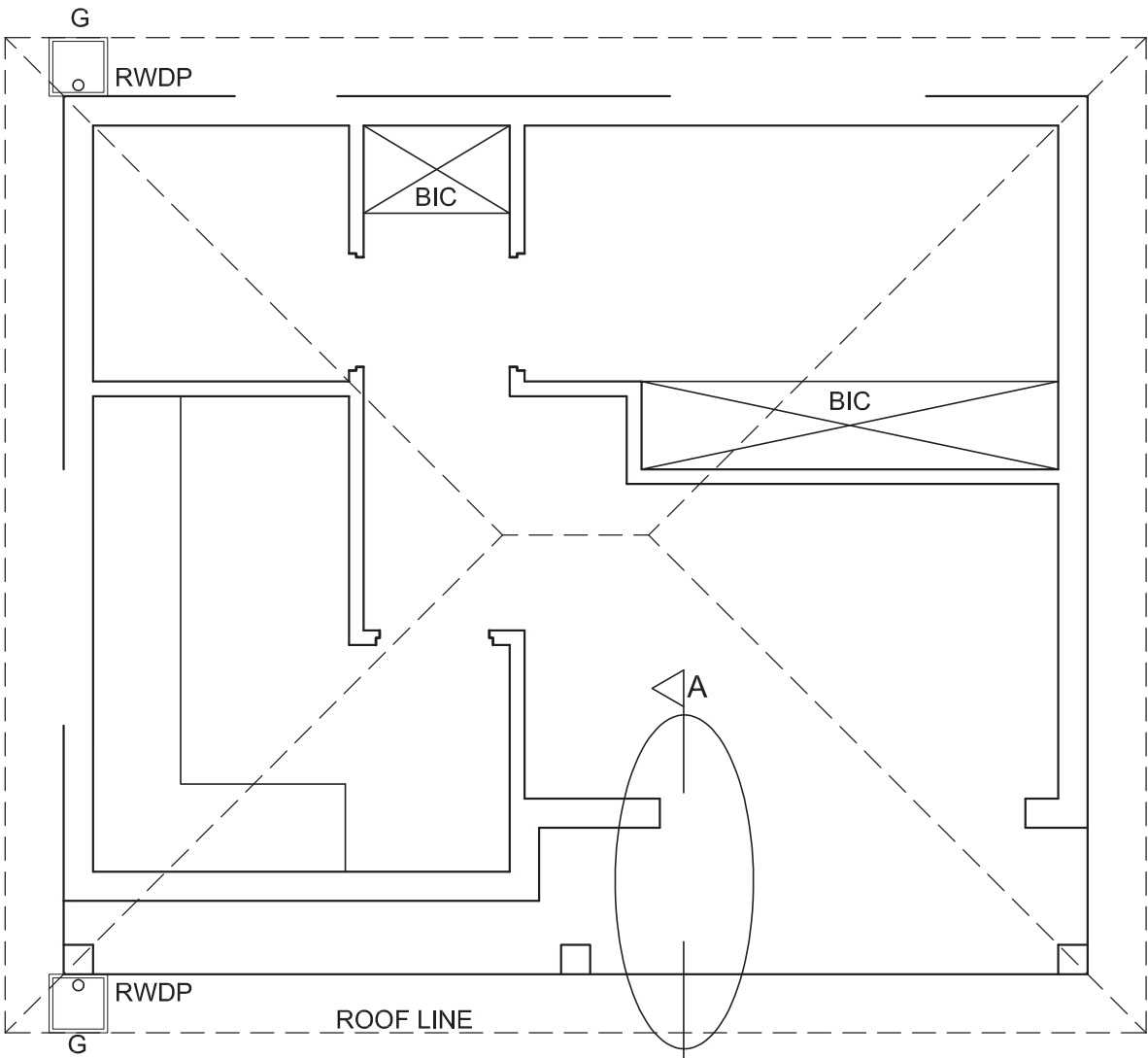
ALL drawings must comply with the **guidelines** and **graphical symbols** contained in the **SANS 10143**.







DETAILED SECTION  
SCALE 1 : 20

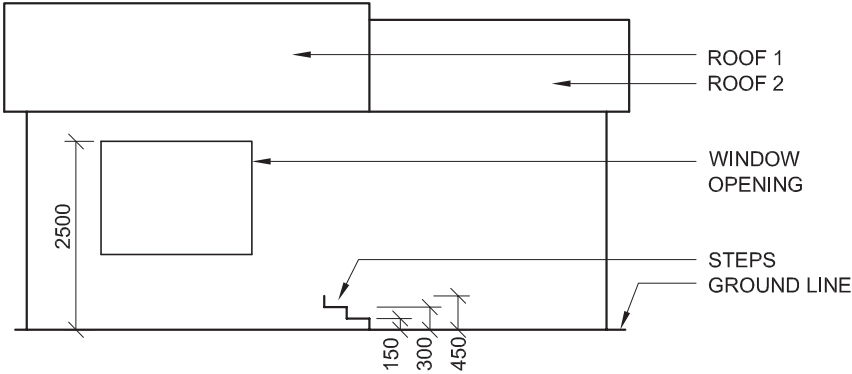


FLOOR PLAN  
SCALE 1 : 50

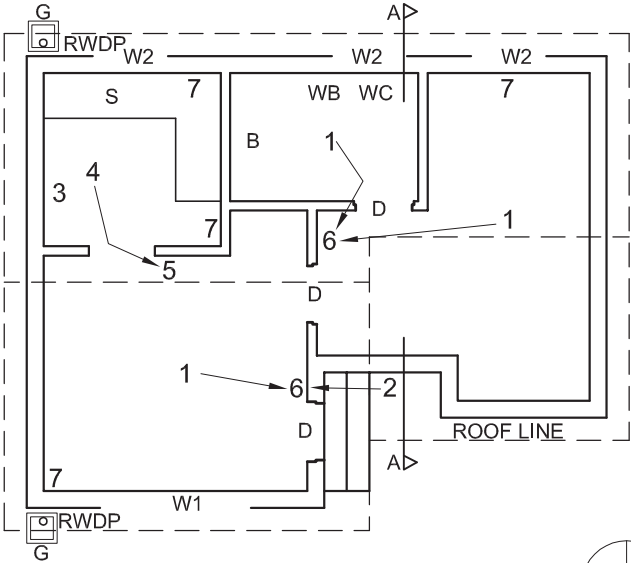


PENALTIES		
INCORRECT OVERALL SCALE		
INCORRECT POSITIONING OF VIEWS		
NON-ALIGNMENT OF VIEWS		
TOTAL PENALTIES (-)		

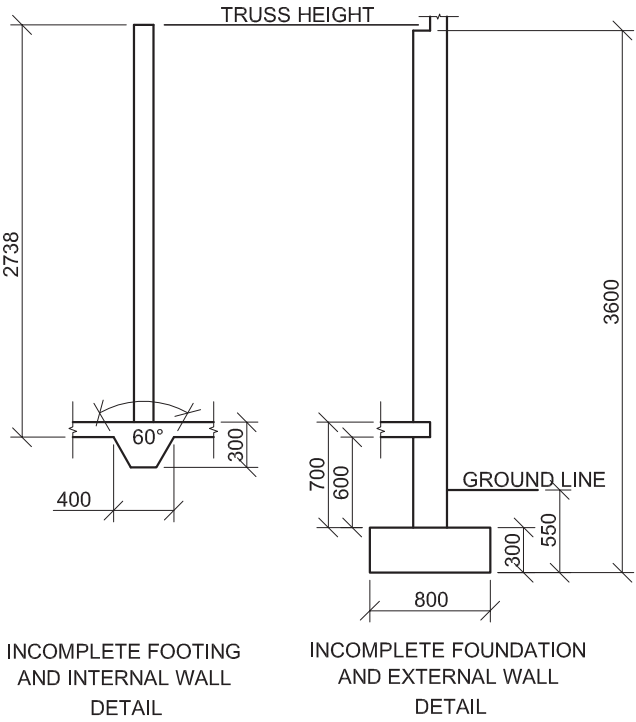
ASSESSMENT CRITERIA					
FLOOR PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATE
1	DOORS + WINDOWS	12			
2	ELECTRICAL	10			
3	FIXTURES	4			
4	HATCHING	4			
5	LABELS	5			
SUBTOTAL		35			
SOUTH-WEST ELEVATION					
1	ROOF	6½			
2	WALLS + RWDP + FFL + GULLY	9			
3	DOOR	3			
4	LABELS	1½			
SUBTOTAL		20			
DETAILED 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					6



INCOMPLETE NORTH ELEVATION



INCOMPLETE FLOOR PLAN



INCOMPLETE FOOTING AND INTERNAL WALL DETAIL

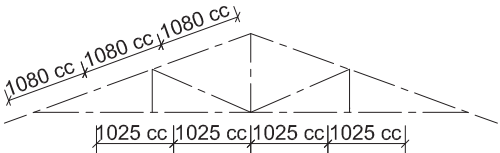
INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL

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

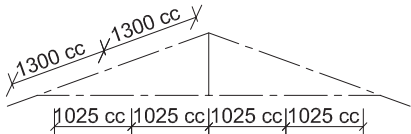
**FIXTURES**  
**S** SINK  
**B** BATH  
**BIC** BUILT-IN CUPBOARD (600 mm deep)  
**WC** TOILET  
**WB** WASH BASIN

**ELECTRICAL FIXTURES**  
1. CEILING LIGHT  
2. WALL-MOUNTED LIGHT  
3. DISTRIBUTION BOARD  
4. FLUORESCENT LIGHT 2 X 40 W  
5. LIGHT SWITCH - SINGLE-POLE  
6. LIGHT SWITCH - TWO-POLE  
7. SWITCHED SOCKET OUTLET  
**NOTE:**  
**THE ARROWS SHOW THE LIGHT CONNECTION TO THE SWITCHES.**

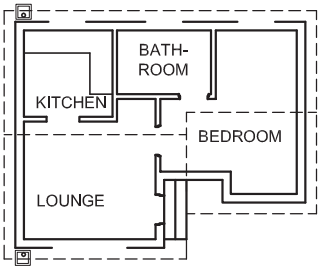
**ROOF NOTES:**  
ROOF PITCH 20°  
  
ROOF COVER 15 mm FIBRE CEMENT SHEET ON 75 x 50 mm PURLINS  
  
115 x 38 mm ROOF TRUSS ON 115 x 38 mm WALL PLATES  
  
9 mm CEILING BOARD ON 38 x 38 mm BRANDERING STRIPS  
  
200 x 25 mm FASCIA BOARDS WITH 150 x 100 mm GUTTER ON BOTH ENDS  
  
Ø100 mm RAIN-WATER DOWN PIPE  
  
400 x 400 x 200 mm GULLY



SCHEMATIC DIAGRAM OF A TRUSS FOR ROOF '1'



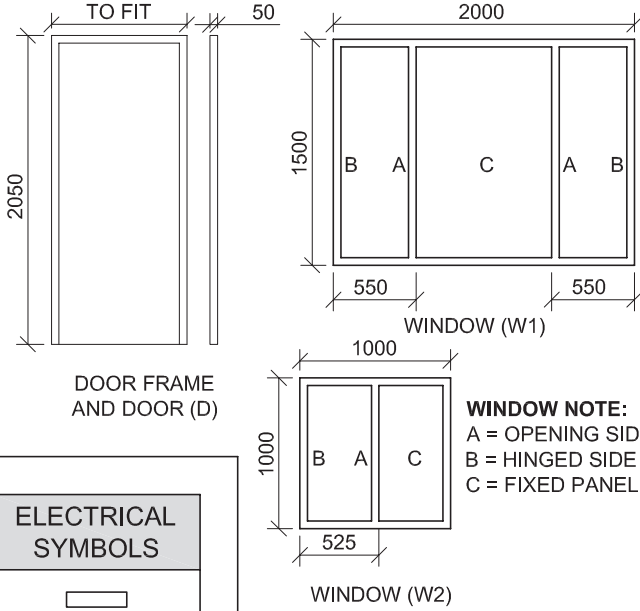
SCHEMATIC DIAGRAM OF A TRUSS FOR ROOF '2'



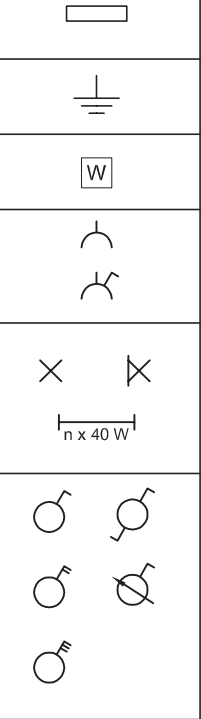
ROOM DESIGNATIONS

**FLOOR FINISHES**  
KITCHEN: TILES  
LOUNGE: CARPET  
BATHROOM: TILES  
BEDROOM: CARPET

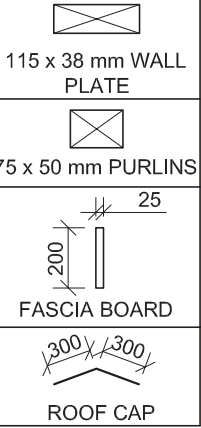
DOOR AND WINDOW SCHEDULE



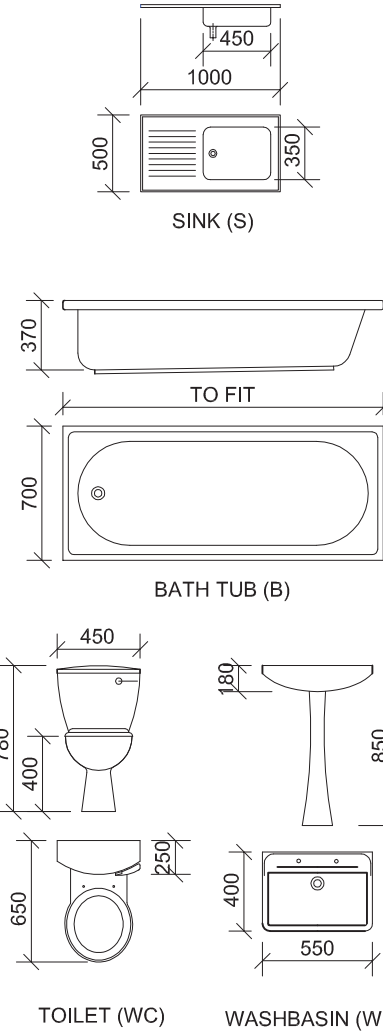
ELECTRICAL SYMBOLS



ROOF COMPONENTS



FIXTURES



QUESTION 4: CIVIL DRAWING

- Given:**
- The incomplete north elevation of a new **dwelling**, showing the walls, the roof and notes
  - The incomplete floor plan showing the walls, position of the doors and windows, the fixtures and electrical layout
  - The incomplete detail of the footing/foundation of an internal and an external wall
  - Roof notes with schematic diagrams of the TWO types of roof trusses
  - A diagram showing the room designations and a list of floor finishes
  - A door and window schedule
  - A table of electrical symbols
  - A table of roof components
  - A table of fixtures
  - The incomplete floor plan of the new **dwelling**, 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 **dwelling**:
    - 4.1 The complete floor plan
    - 4.2 The complete north elevation
    - 4.3 A sectional elevation on cutting plane A-A
  - 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 the doors and windows
  - ALL the fixtures as indicated by abbreviations
  - ALL the electrical fittings as indicated by numbers
  - ALL hatching detail

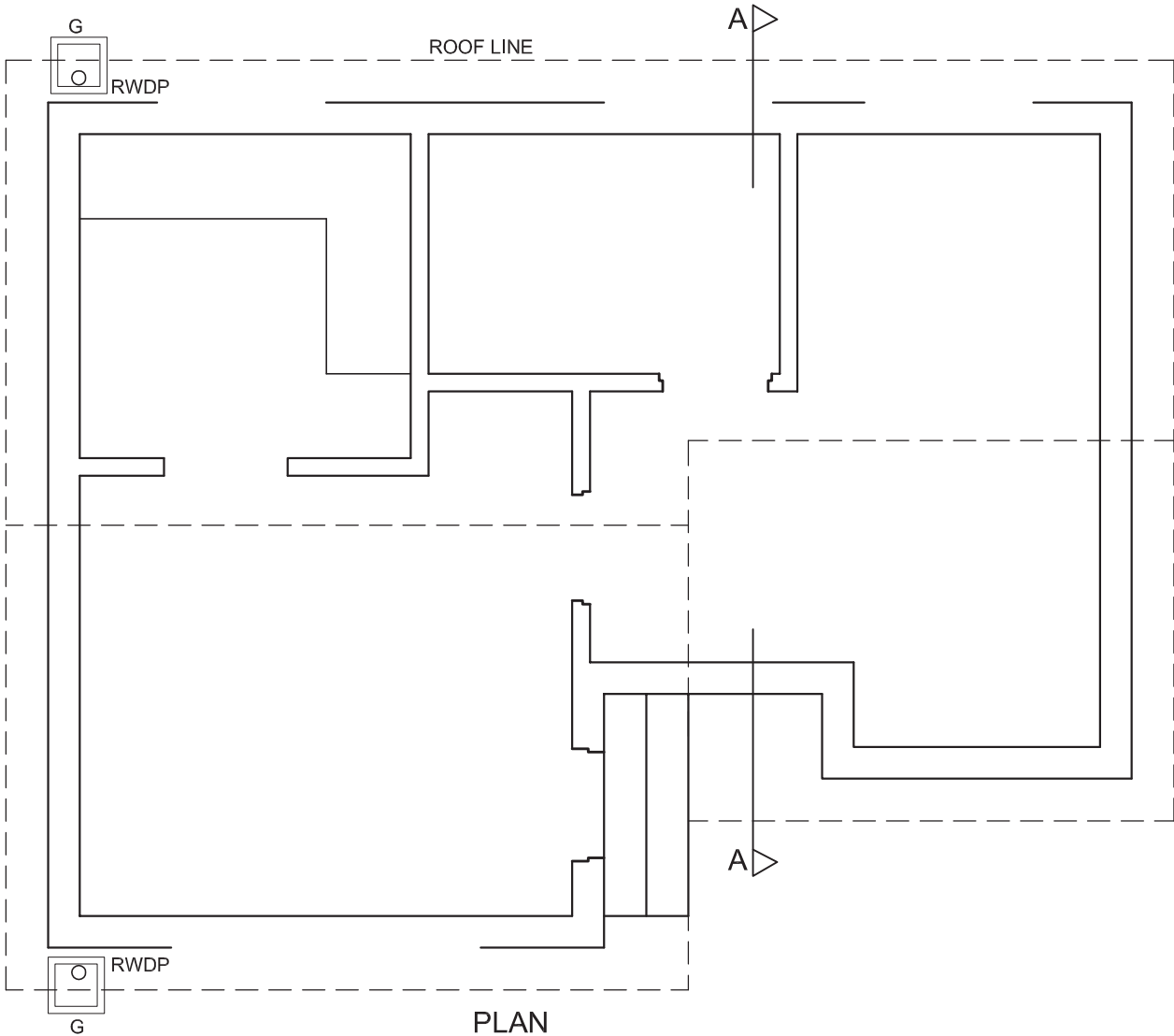
- THE NORTH ELEVATION**  
**Show the following features on the drawing:**
- The outside walls, steps and finished floor level
  - The roof detail, including the fascia board, gutter, rainwater down pipe and gully
  - The window detail

- THE SECTIONAL ELEVATION**  
**Show the following features on the drawing:**
- The complete footing or foundation, wall, roof and ceiling detail
  - The window detail, with a DOUBLE lintel
  - ALL features to the west of the cutting plane
  - ALL hatching detail

- Label the following:**
- The room designations and floor finishes
  - The sectional elevation and the north elevation
  - Using the 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 neat freehand.



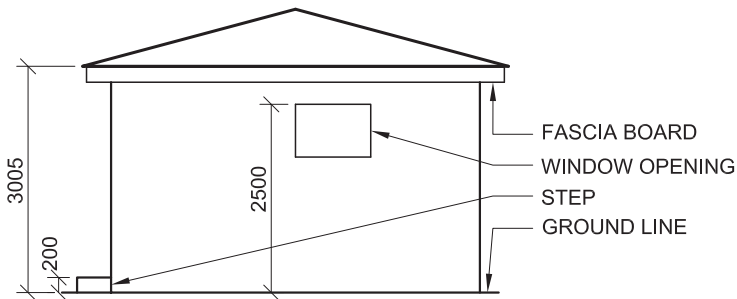


PLAN  
SCALE 1 : 50

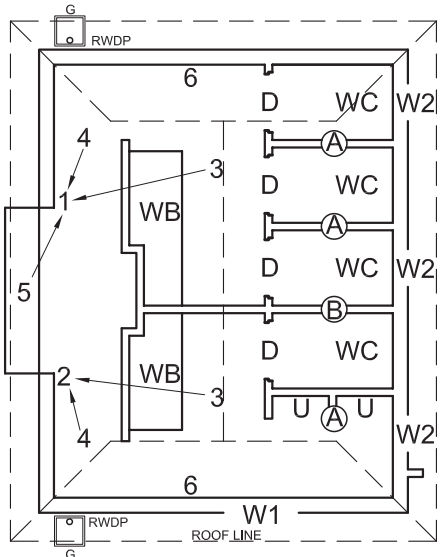


PENALTIES		
INCORRECT OVERALL SCALE		
INCORRECT POSITIONING OF VIEWS		
NON-ALIGNMENT OF VIEWS		
TOTAL		

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



INCOMPLETE WEST ELEVATION



INCOMPLETE FLOOR PLAN

**FEATURES**  
D DOOR  
W1 WINDOW  
W2 WINDOW

**FIXTURES**  
WC TOILET  
WB WASH BASIN  
U URINAL

**ELECTRICAL FITTINGS:**  
1. LIGHT SWITCH THREE-POLE  
2. LIGHT SWITCH DOUBLE-POLE  
3. FLUORESCENT LIGHT 3 X 40 W  
4. CEILING LIGHT  
5. WALL MOUNTED LIGHT  
6. SWITCHED SOCKET OUTLET

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

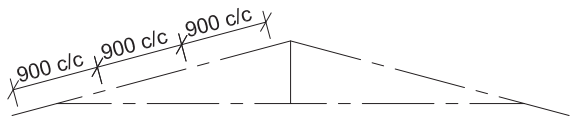
**ROOF NOTES:**  
ROOF PITCH 15° WITH 200 x 20 mm FASCIA BOARD ON ALL SIDES

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

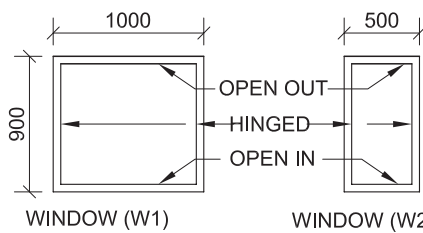
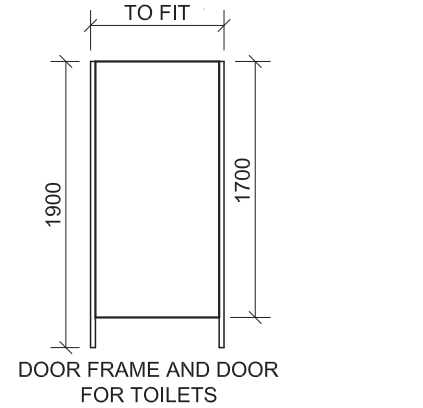
PLASTER CEILING BOARD ON 38 x 38 mm BRANDING STRIPS @ 700 mm c/c

100 x 100 mm GUTTER ON ALL SIDES



SCHEMATIC DIAGRAM OF A ROOF TRUSS

DOOR AND WINDOW SCHEDULE

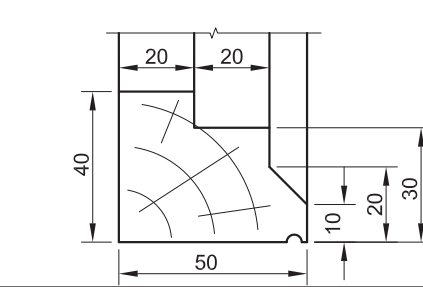


**NOTES:**  
150 x 20 FIBRE CEMENT SILL UNDER ALL WINDOWS

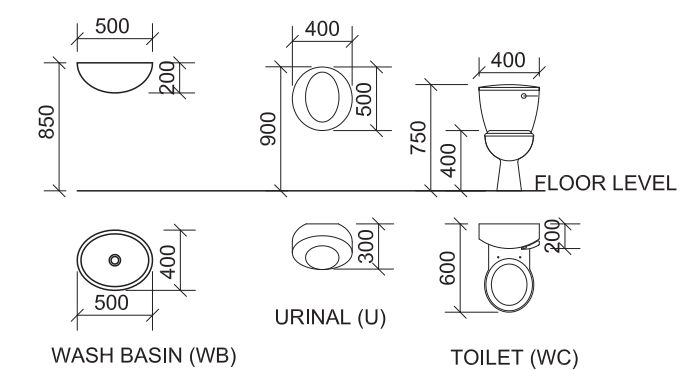
ROOF COMPONENTS

	200	ROOF CAP
		115 x 38 WALL PLATE
		75 x 50 PURLINS

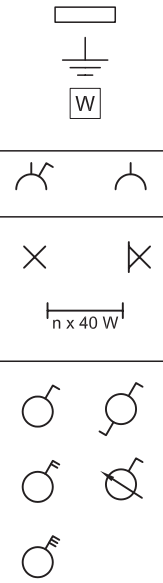
WINDOW FRAME PROFILE



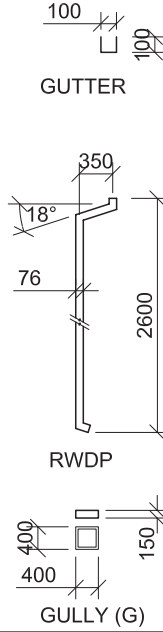
FIXTURES



ELECTRICAL SYMBOLS



RAINWATER ITEMS



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:

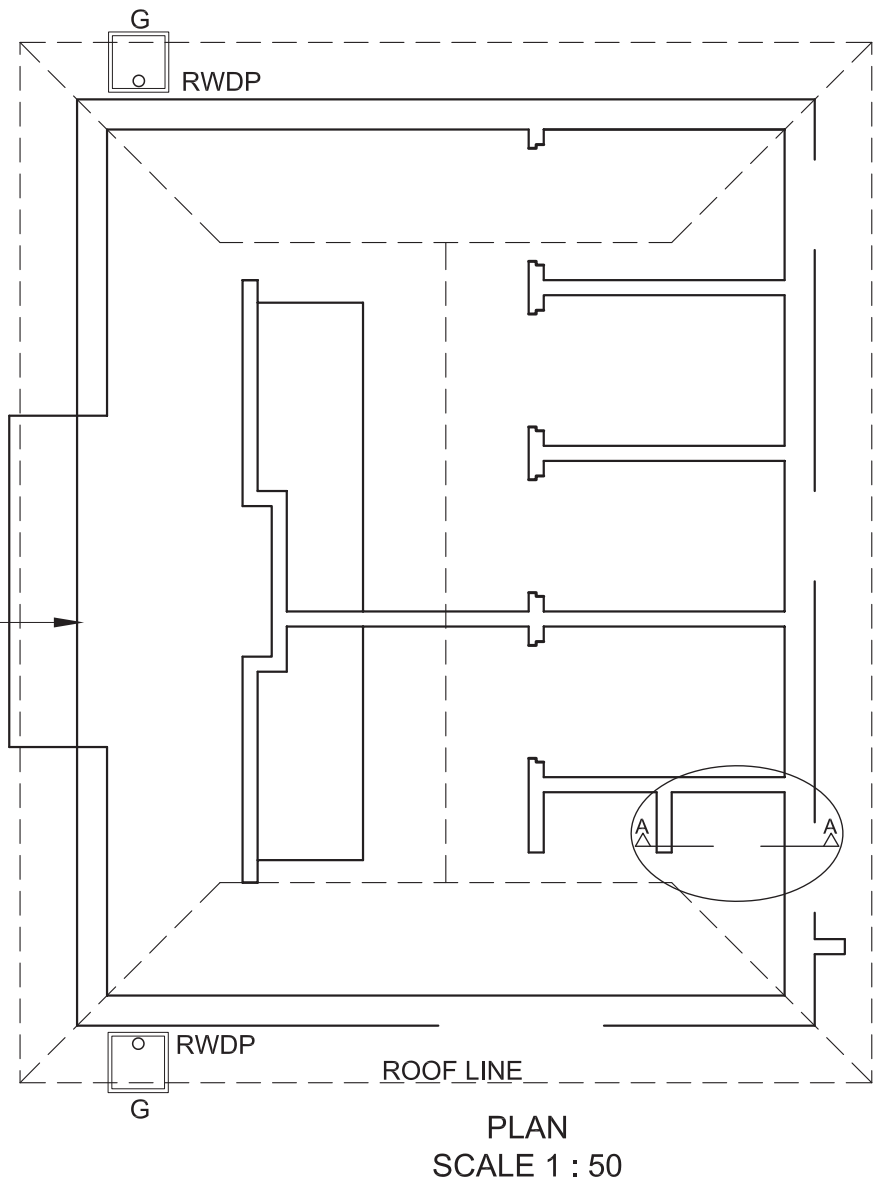
- The complete foundation and external wall detail
- The complete footing and wall A detail
- The roof detail
- The window detail with a double lintel
- ALL features to the east of the cutting plane A-A
- ALL hatching detail. ONLY the substructure hatching may be drawn in freehand.

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**.

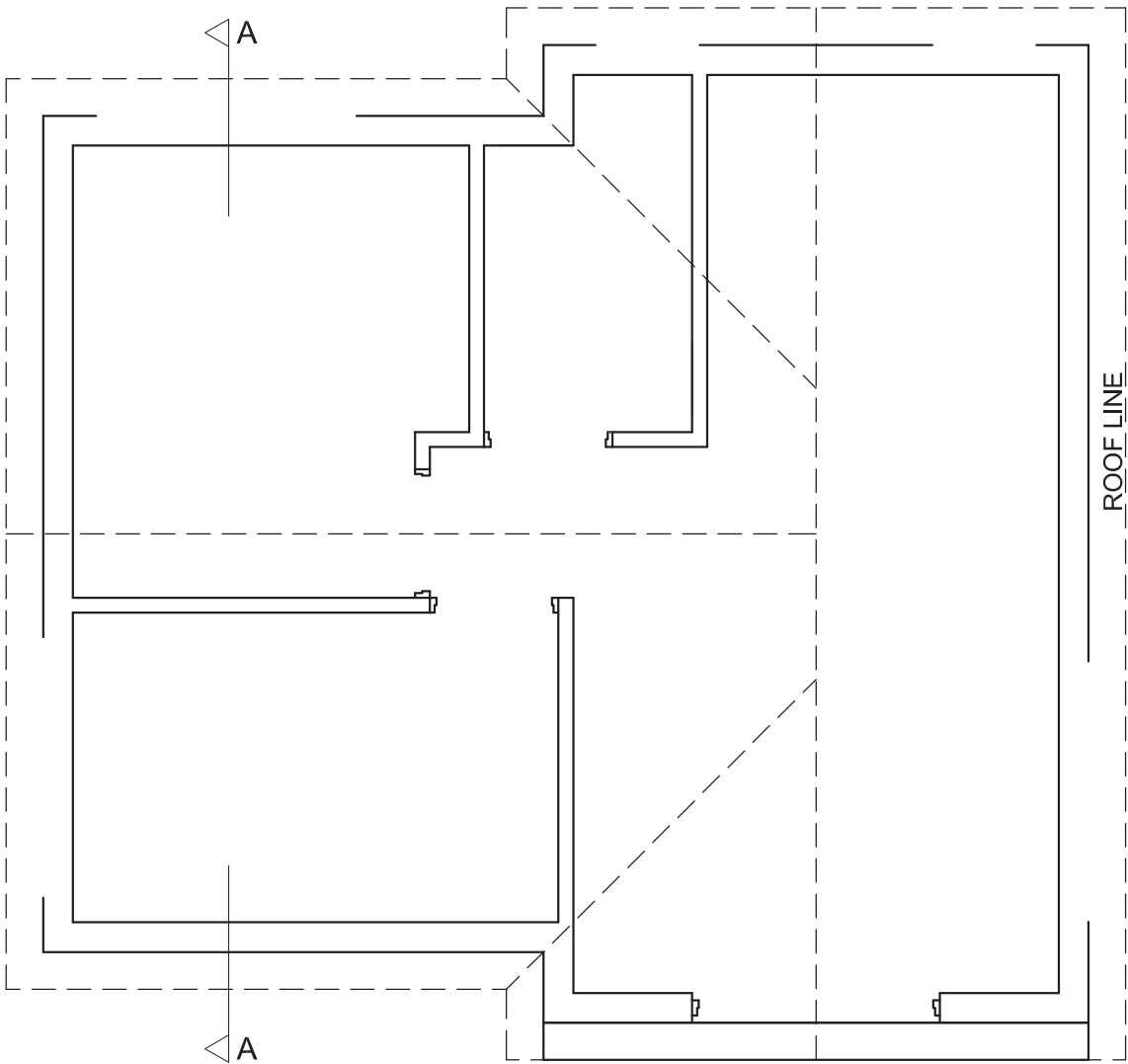


ASSESSMENT CRITERIA					
PLAN					
		POSSIBLE	OBTAINED	SIGN	MODERATE
1	DOORS + WINDOWS	12			
2	ELECTRICAL	7			
3	FIXTURES	8			
4	HATCHING	4			
5	LABELS	1			
SUBTOTAL		32			
WEST ELEVATION					
1	ROOF	6			
2	WALLS + RWDP + FFL + G + STEP	5			
3	WINDOW	5			
4	LABELS	2			
SUBTOTAL		18			
DETAILED DRAWING					
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



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





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

2000

500

500

1500

450

WINDOW (W1)

NOTE: 175 x 20 FIBRE CEMENT SILL UNDER ALL WINDOWS

TO FIT

425

425

75

2100

1550

752

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

TO FIT

2100


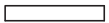


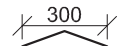
INTERNAL DOOR AND FRAME (D1)


















TO FIT

2100

TO FIT

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

180

850

400

550

WASHBASIN (WB)

450

780

400

650

TOILET (WC)

TO FIT

600

BUILT-IN CUPBOARD (BIC)

200 x 20 BARGE BOARD

125 x 100 GUTTER

Ø100 mm RWDP

W1 WINDOW

FRONT DOOR

FLOOR LEVEL

GROUND LEVEL

SOUTH-EAST ELEVATION

INCOMPLETE FLOOR PLAN

SCHEMATIC DIAGRAM OF A ROOF TRUSS

INCOMPLETE FOUNDATION AND EXTERNAL WALL DETAIL

INCOMPLETE FOUNDATION AND INTERNAL WALL DETAIL

ROOM DESIGNATIONS WITH FLOOR FINISHES

- 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 BRANDERING, EVENLY SPACED

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

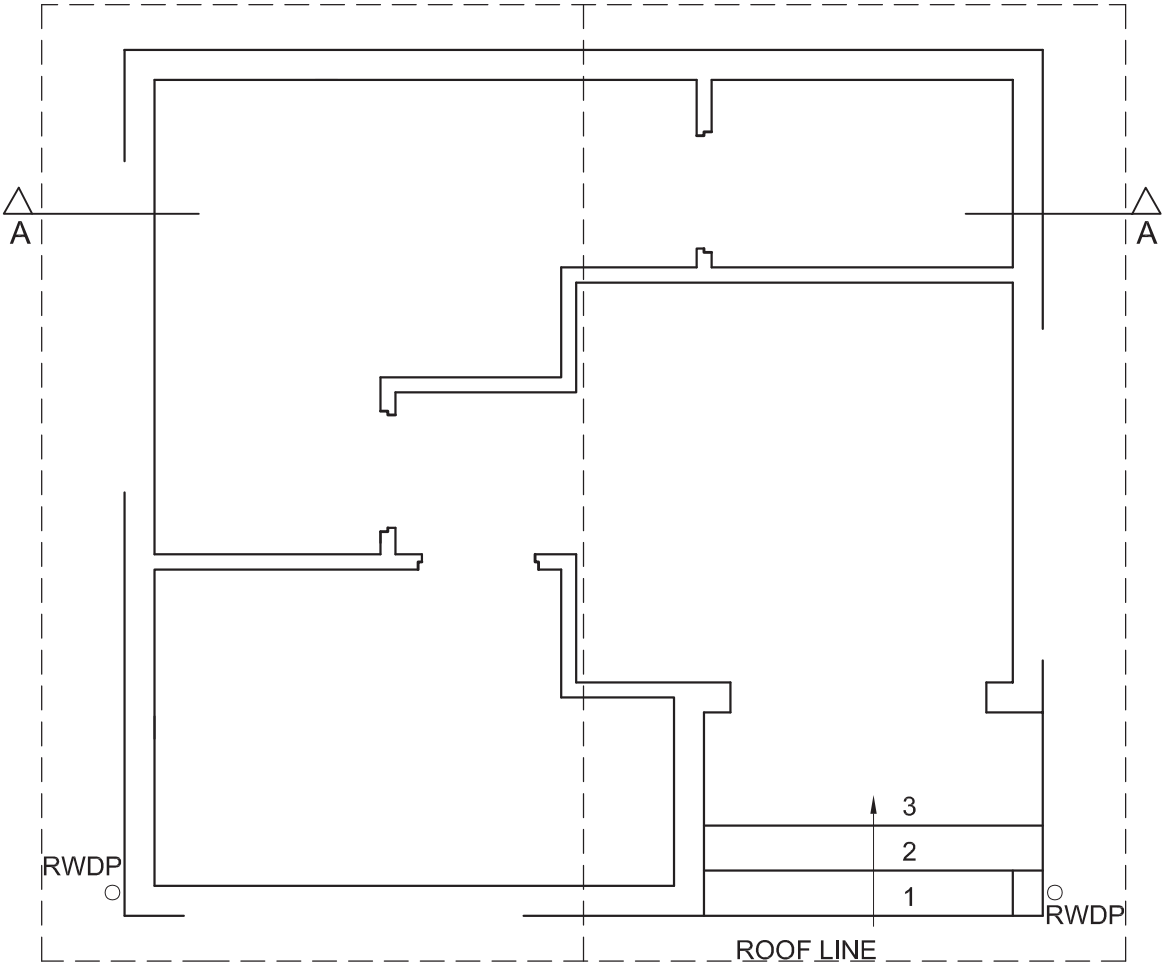
Label the following:

- 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]



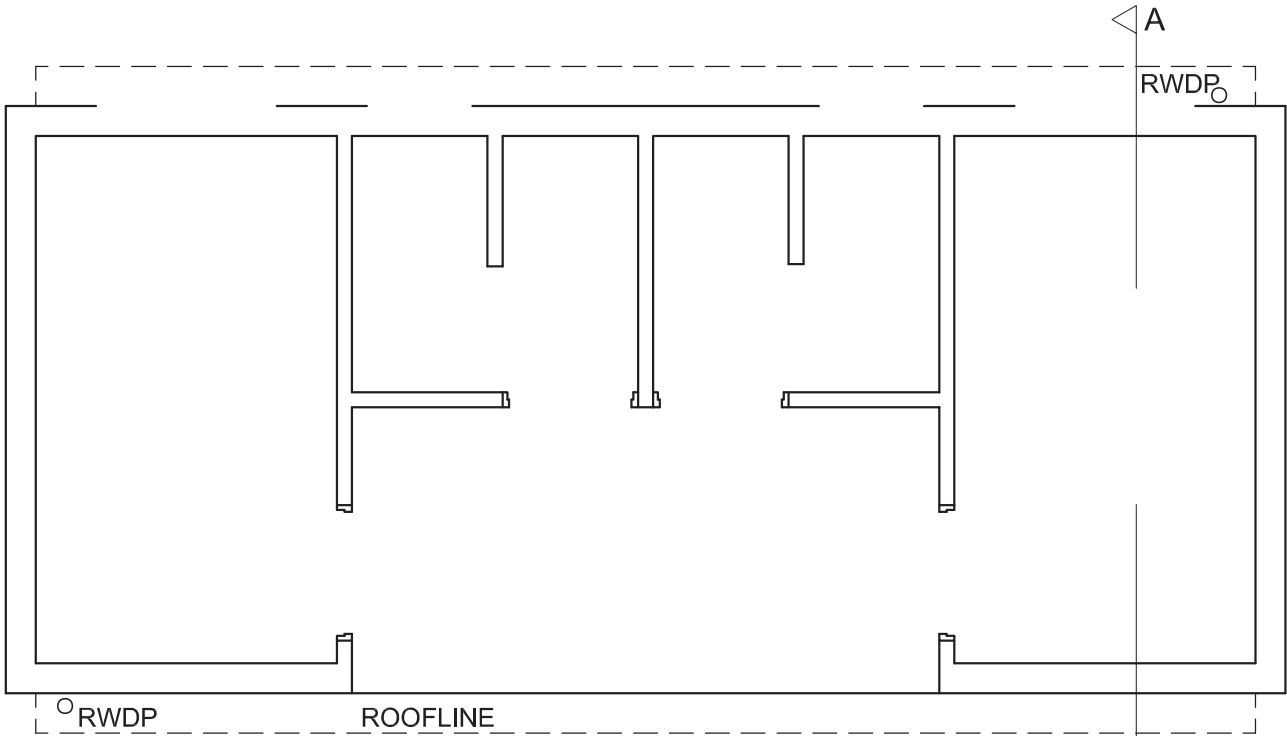


FLOOR PLAN  
SCALE 1 : 50

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







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



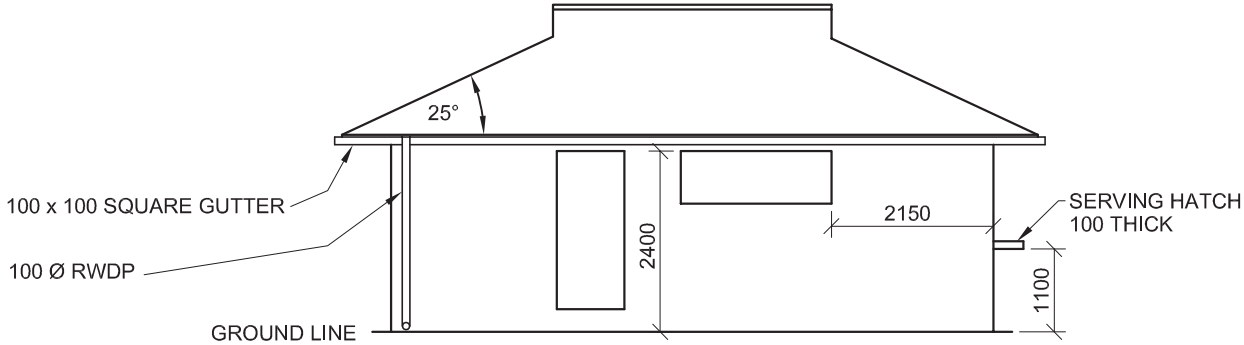


ELECTRICAL SYMBOLS

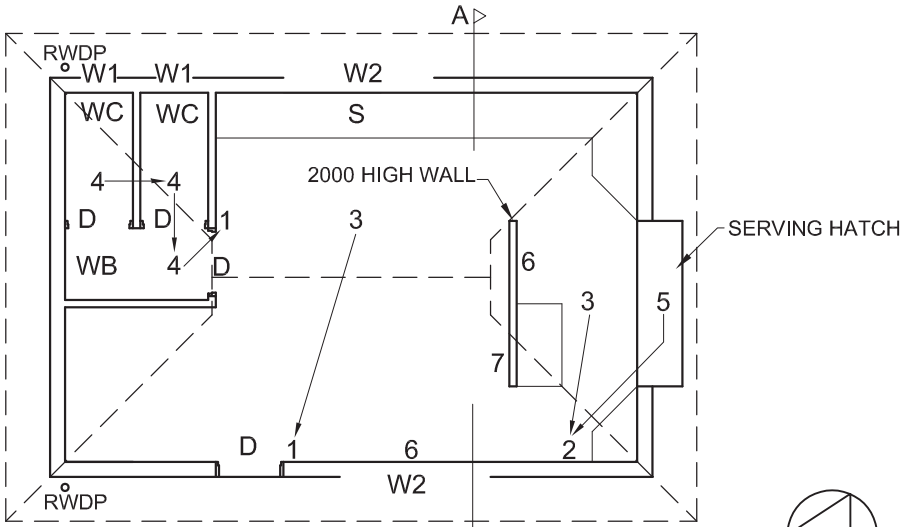
ROOF COMPONENTS	
	75 x 50 PURLINS
	115 x 38 WALL PLATE
	ROOF CAP
	200 x 12 FASCIA BOARD

DOOR AND WINDOW SCHEDULE	
	50 x 50 TIMBER WINDOW FRAME (W1)
	50 x 50 TIMBER WINDOW FRAME (W2)

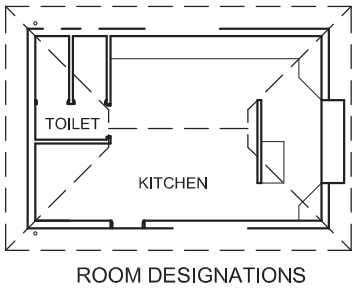
DIMENSIONS OF FIXTURES	
	TOILET (WC)
	WASHBASIN (WB)
	SINK (S)



INCOMPLETE WEST ELEVATION

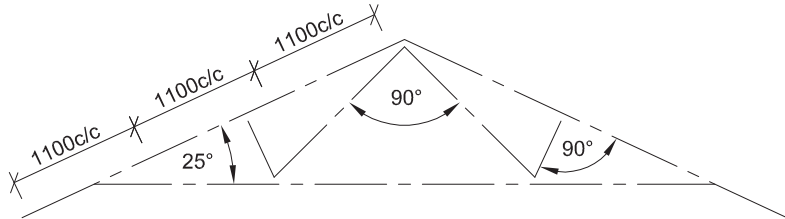


INCOMPLETE FLOOR PLAN

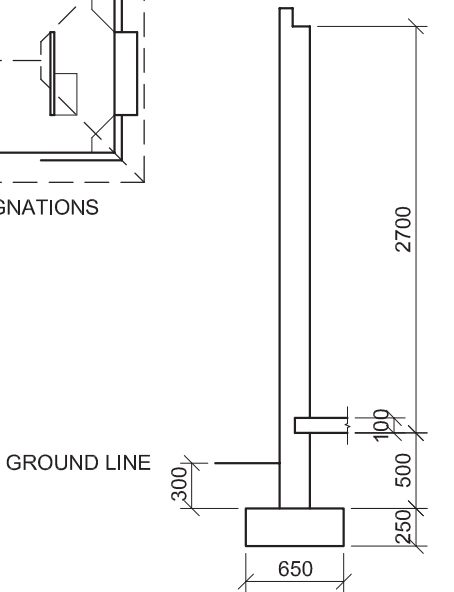


ROOM DESIGNATIONS

**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



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:

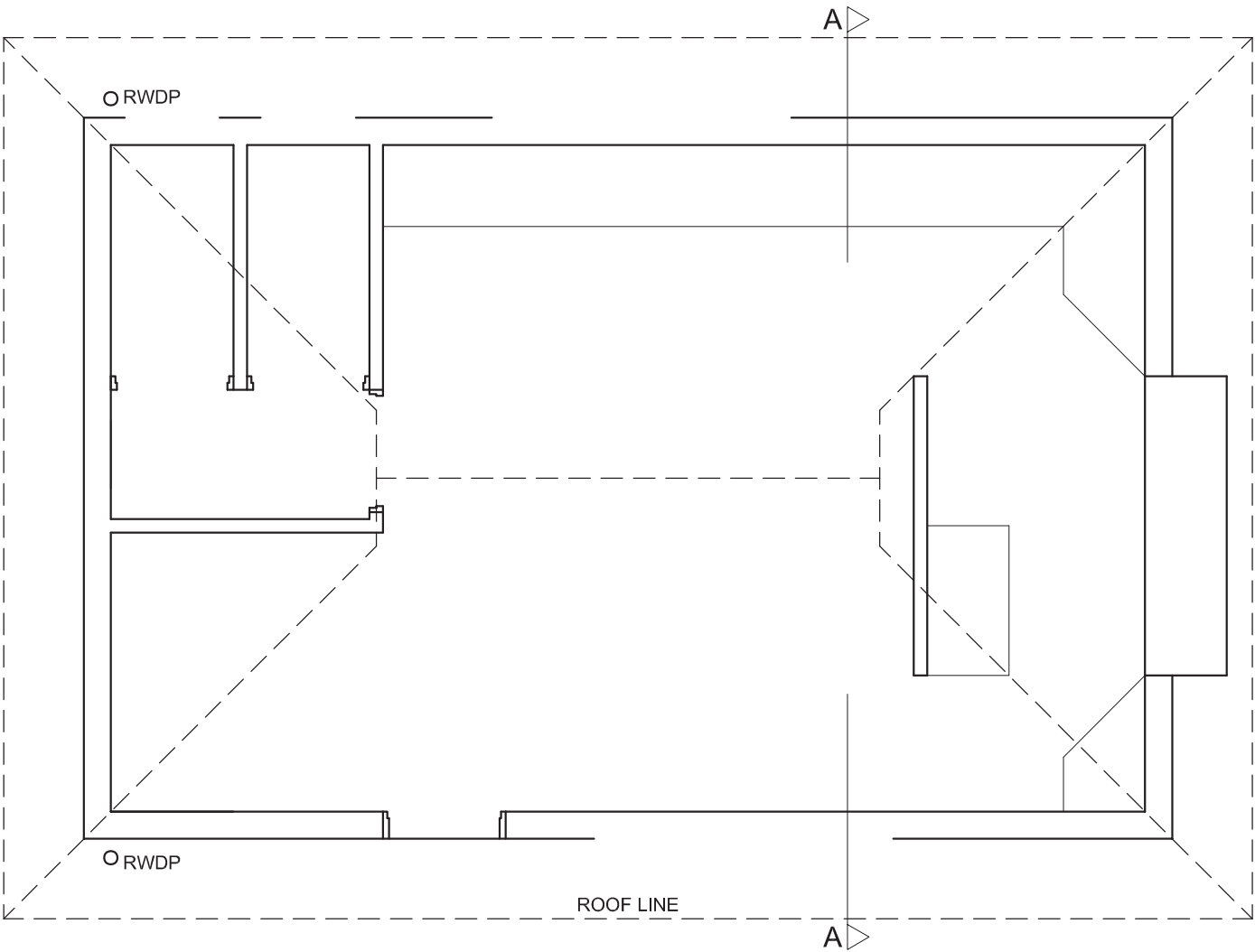
ONLY the substructure hatching may be drawn in freehand.

[94]





NGL \_\_\_\_\_

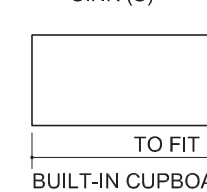
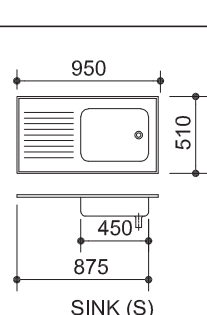
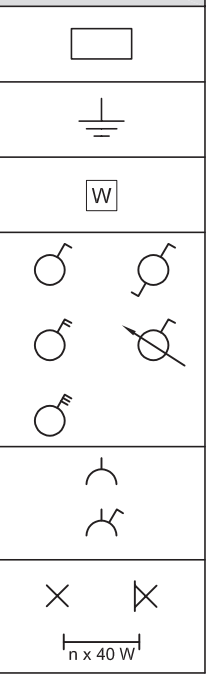


FLOOR PLAN  
SCALE 1 : 50

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

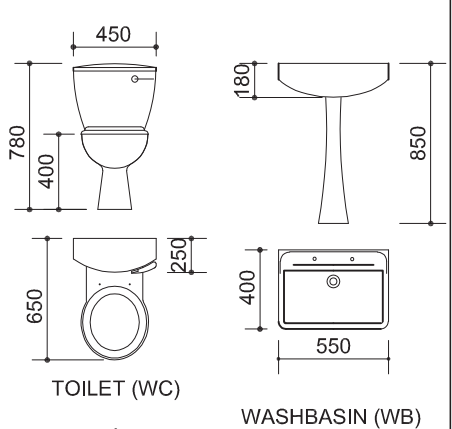
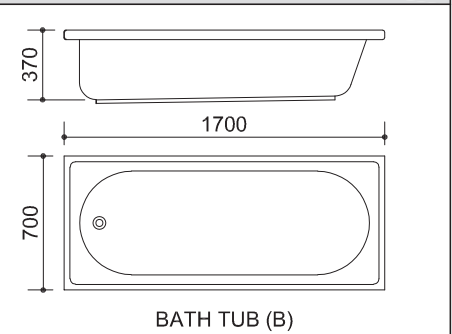


ELECTRICAL SYMBOLS

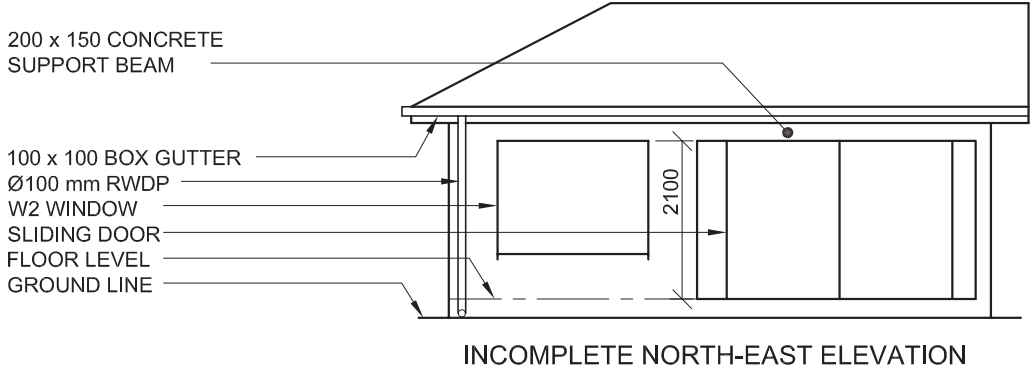
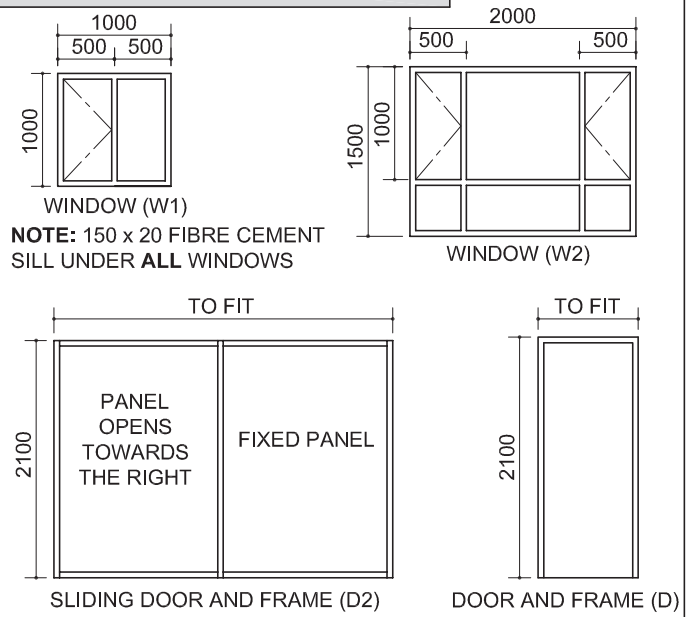


ROOF COMPONENTS	
	75 x 50 PURLINS
	228 x 20 FASCIA BOARD
	114 x 38 WALL PLATE

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.

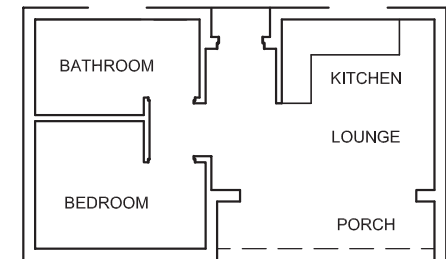
**ROOF NOTES:**  
ROOF COVER 15 mm CORRUGATED IRON ON 75 x 50 mm PURLINS @ 1450 c/c.

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

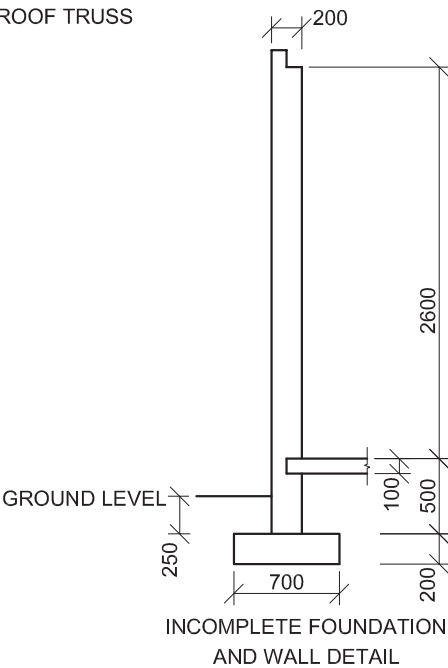
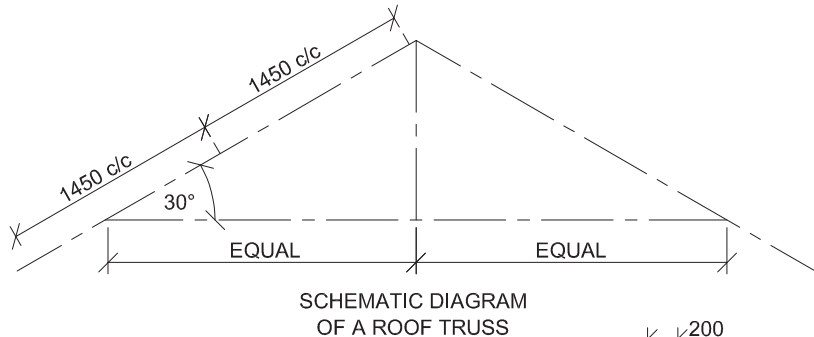
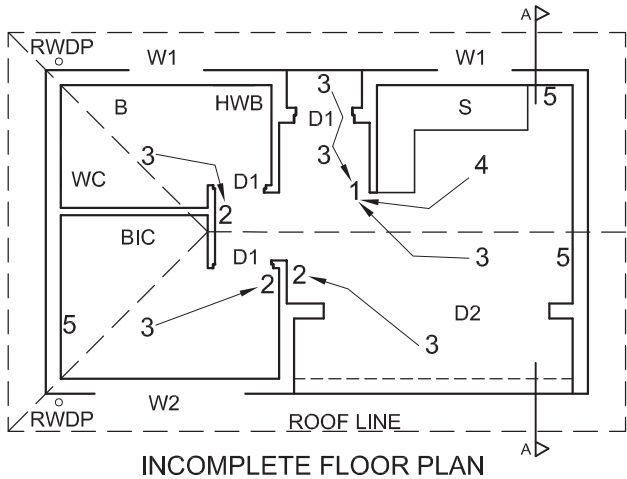
ROOF PITCH 30° WITH 228 x 20 mm FASCIA BOARD ON BOTH ENDS.

100 mm SQUARE BOX GUTTER

PLASTER CEILING BOARD ON 4 STRIPS OF 38 x 38 mm BRANDERING, 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:

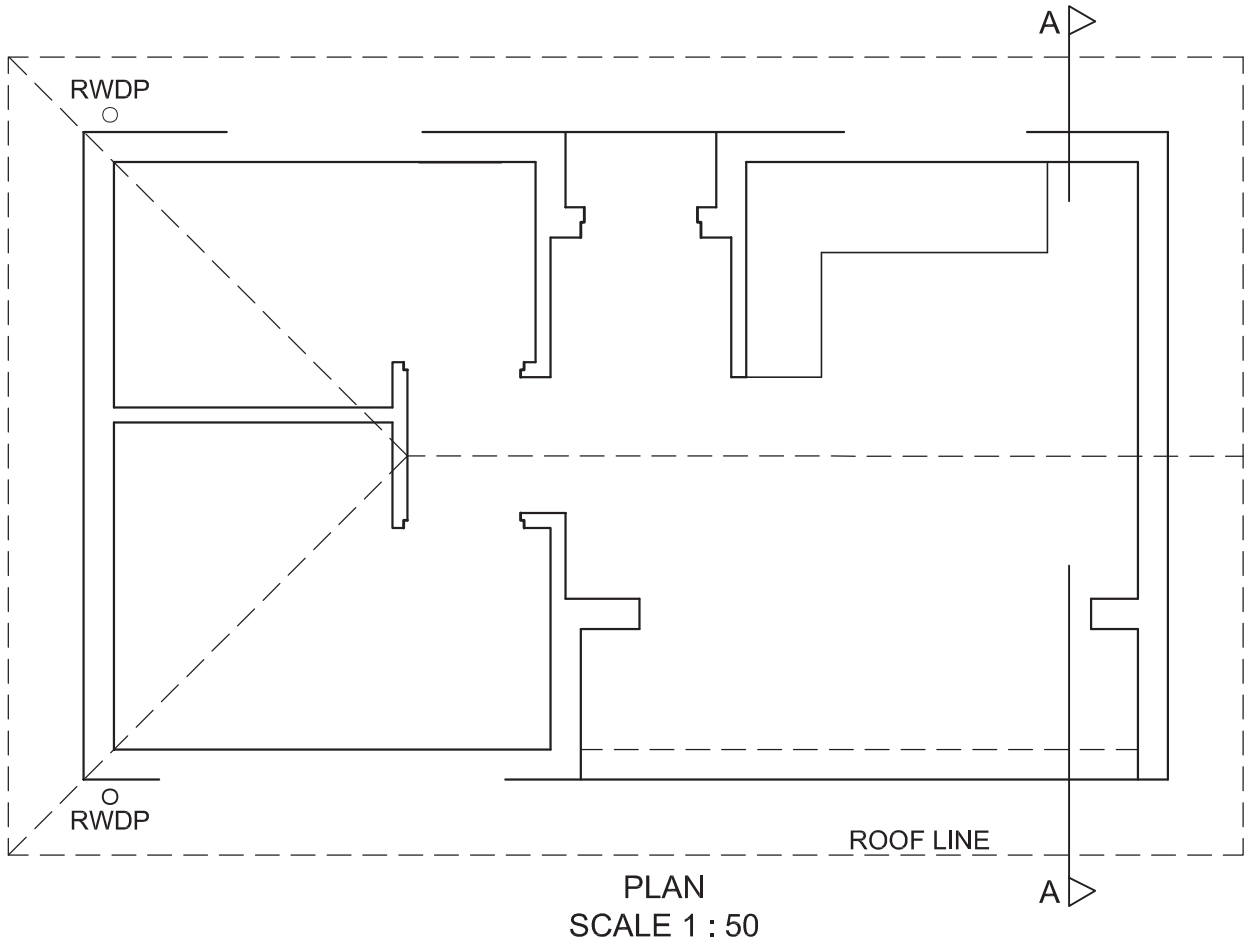
- The complete foundation, wall, slab, roof and ceiling detail
- The sliding door detail
- ALL hatching detail

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.


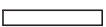

NOTE:













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

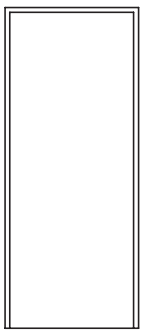
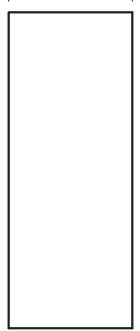


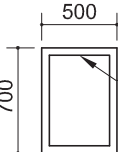
ASSESSMENT CRITERIA					
FLOOR PLAN					
1	LABELS	5			
2	ELECTRICAL	8			
3	FITTINGS	6			
4	DOORS + WINDOWS	12			
5	HATCHING	6			
SUBTOTAL		37			
NORTH-EAST ELEVATION					
1	WALLS + FFL	4			
2	ROOF + GUTTER + RWDP	6½			
3	WINDOWS + DOOR	9			
4	LABELS	1½			
SUBTOTAL		21			
SECTIONAL ELEVATION					
1	ROOF	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

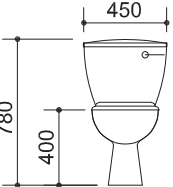
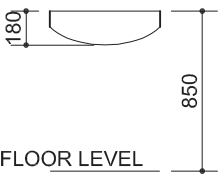
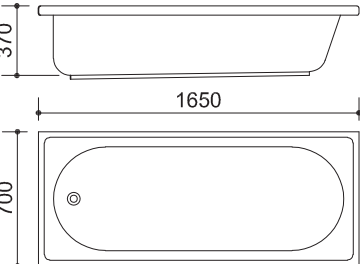
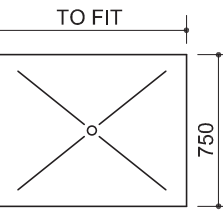


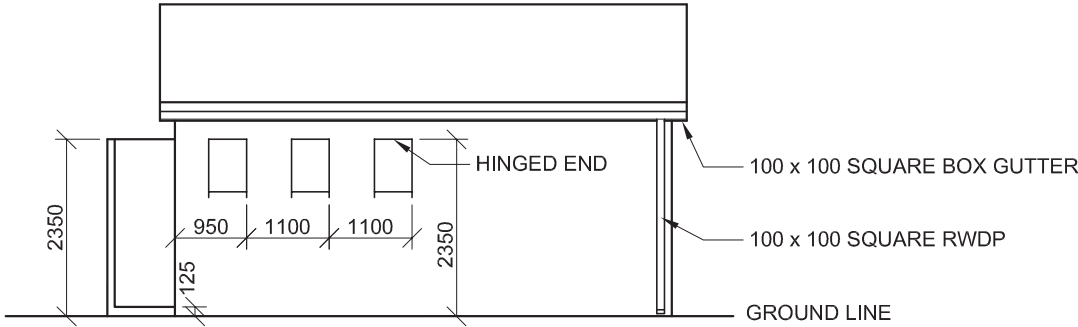
ROOF COMPONENTS	
	75 x 50 PURLINS
	228 x 20 FASCIA BOARD
	114 x 38 WALL PLATE

ELECTRICAL SYMBOLS	
	
	
	
	
	
	
	
	n x 40 W
	
	
	
	

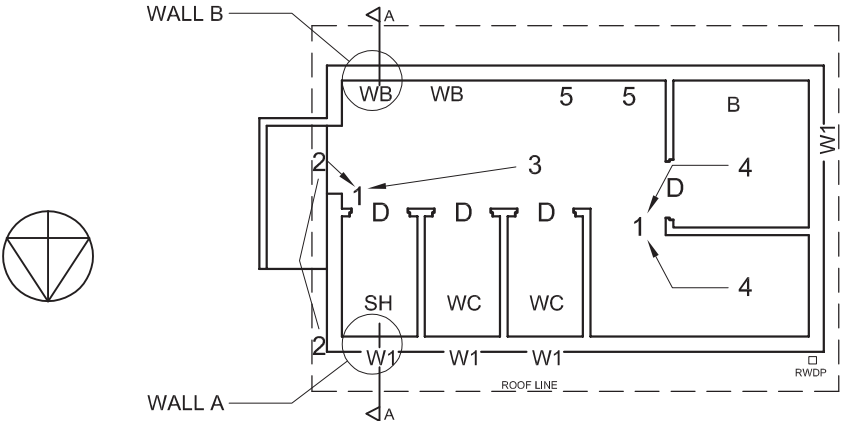
DOOR SCHEDULE	
TO FIT	TO FIT
	
FRAME	HOLLOW CORE DOOR (D)

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

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



INCOMPLETE NORTH ELEVATION



INCOMPLETE FLOOR PLAN

FIXTURES	
D	DOORS
W1	WINDOW OPENINGS
B	BATH
SH	SHOWER
WC	TOILET
WB	WASHBASIN

ELECTRICAL FIXTURES	
1.	TWO-POLE LIGHT SWITCH
2.	OUTSIDE LIGHT
3.	2 x 40 W FLUORESCENT TUBES
4.	CEILING LIGHT
5.	SWITCH SOCKET OUTLET
<b>NOTE: THE ARROWS SHOW THE LIGHT CONNECTION TO THE SWITCH.</b>	

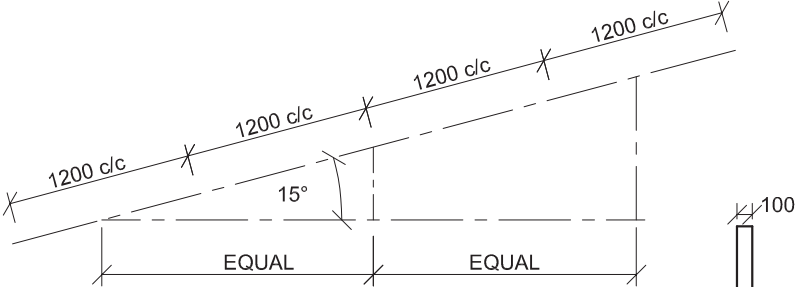
**ROOF NOTES:**  
ROOF COVER 15 mm FIBRE CEMENT BOARD ON 75 x 50 mm PURLINS @ 1200 c/c

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

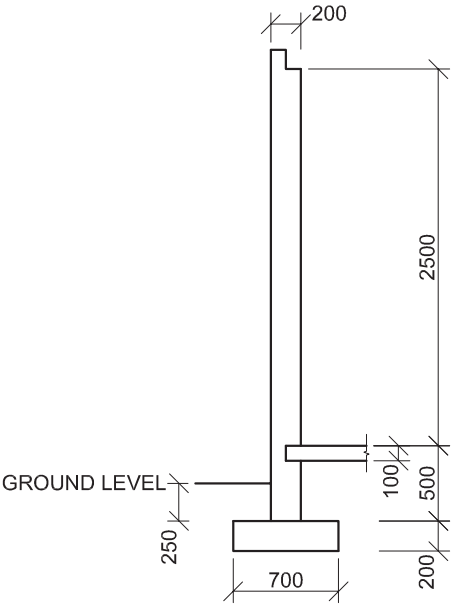
228 x 20 mm FASCIA BOARD ON BOTH ENDS

ROOF PITCH 15°

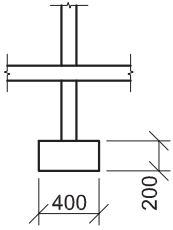
100 mm SQUARE BOX GUTTER



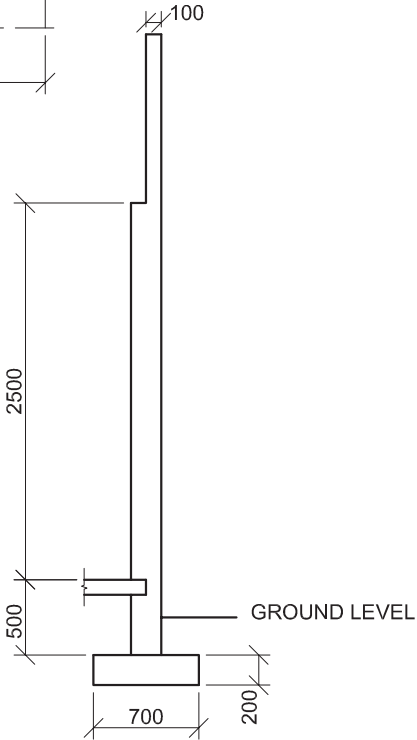
SCHEMATIC DIAGRAM OF A ROOF TRUSS



INCOMPLETE FOUNDATION AND WALL 'A' DETAIL ON A-A



INCOMPLETE FOUNDATION AND INTERNAL WALL DETAIL



INCOMPLETE FOUNDATION AND WALL 'B' DETAIL ON A-A

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

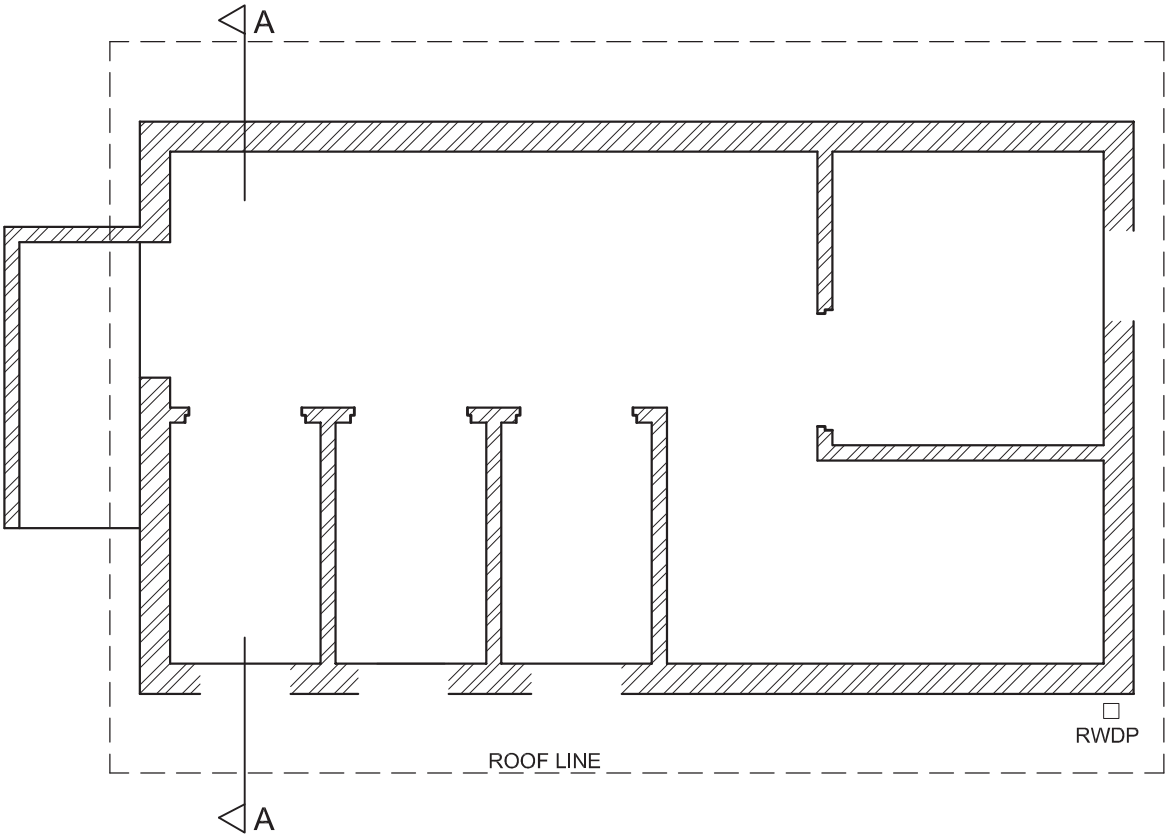
Label the following:

- 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]**



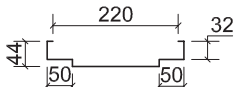


ASSESSMENT CRITERIA					
FLOOR PLAN					
1	LABELS	2			
2	ELECTRICAL	7			
3	FIXTURES	8			
4	DOORS + WINDOWS	14			
SUBTOTAL		31			
NORTH ELEVATION					
1	WALLS + FFL	4			
2	ROOF + FACIA + GUTTER + RWDP	5			
3	WINDOWS	10½			
4	LABELS	1½			
SUBTOTAL		21			
SECTIONAL ELEVATION					
1	ROOF	11			
2	WALLS +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



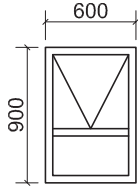
# DOOR AND WINDOW SCHEDULE

DOOR FRAME  
STANDARD, EXTERNAL,  
MILD STEEL

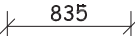


FRAME PROFILE

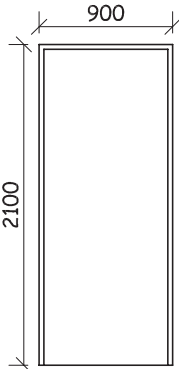
WINDOW  
STANDARD W0609  
TIMBER FRAME



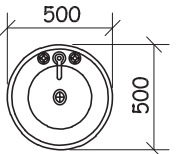
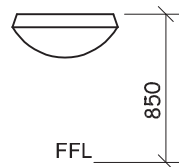
DOOR  
H/W FRAMED, LEDGED  
AND BATTENED



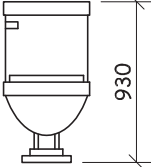
DOOR



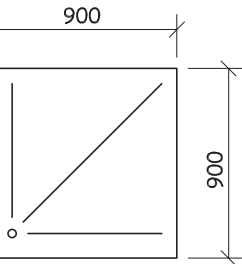
FRAME



WASH BASIN

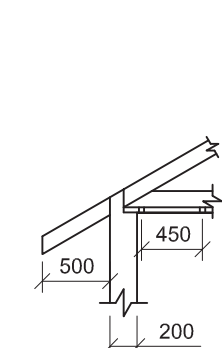
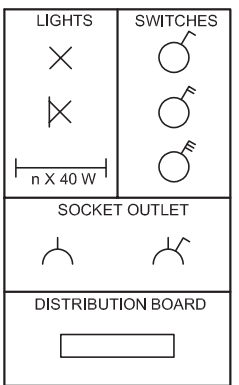


TOILET



SHOWER

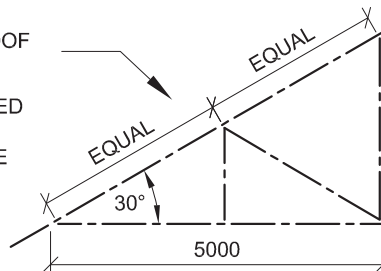
## ELECTRICAL SYMBOLS



INCOMPLETE ROOF TRUSS,  
WALL AND CEILING DETAIL

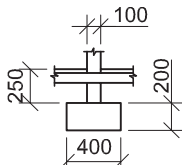
ROOF NOTE  
37 x 740 IBR SHEETS LAID  
ON 75 x 50 PURLINS @  
1250 C/C ON 114 x 38 ROOF  
TRUSSES

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



SCHEMATIC DRAWING OF THE ROOF TRUSS

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



INCOMPLETE  
FOUNDATION DETAIL  
FOR THE NEW  
INTERIOR WALLS

2700 CEILING LEVEL

250 FLOOR LEVEL

INCOMPLETE LOAD-BEARING  
FOUNDATION DETAIL

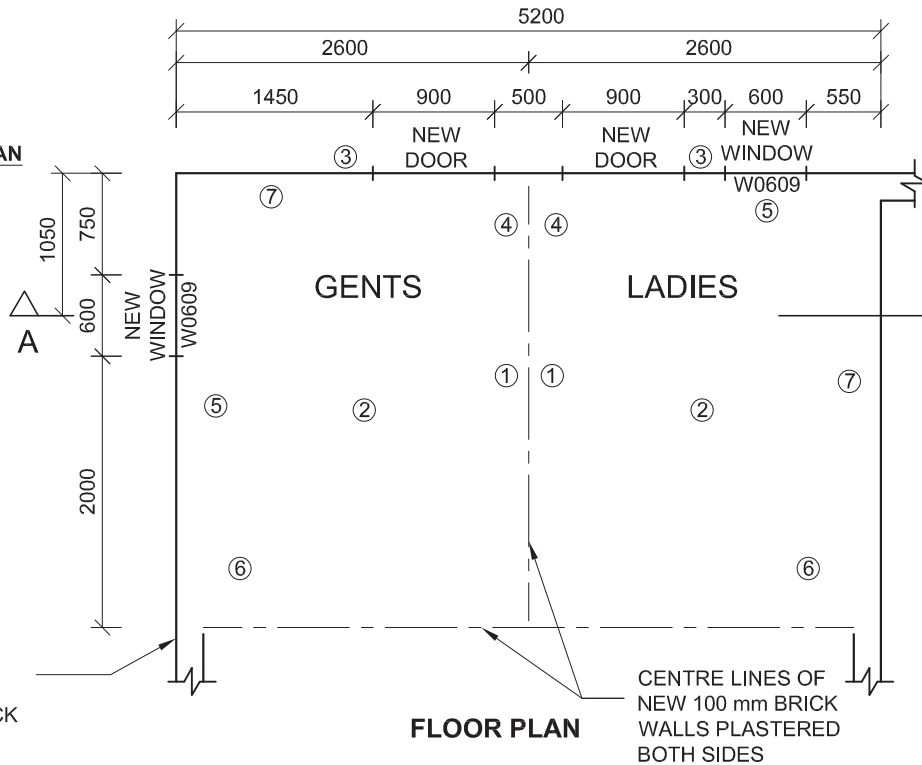
## SECTIONAL SOUTH ELEVATION

## KEY TO NUMBERED FEATURES ON PLAN

1. DOUBLE INSULATED SWITCH
2. 2 x 40 W FLUORESCENT TUBES
3. OUTSIDE LIGHTS
4. TWO-POLE LIGHT SWITCH
5. TOILET
6. SHOWER
7. WASH BASIN



OUTSIDE LINE OF  
EXISTING 200 mm  
LOAD-BEARING BRICK  
WALLS



FLOOR PLAN

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 extention 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 extention, 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**:

#### 4.1 The complete floor plan

#### 4.2 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



STAPLE

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			

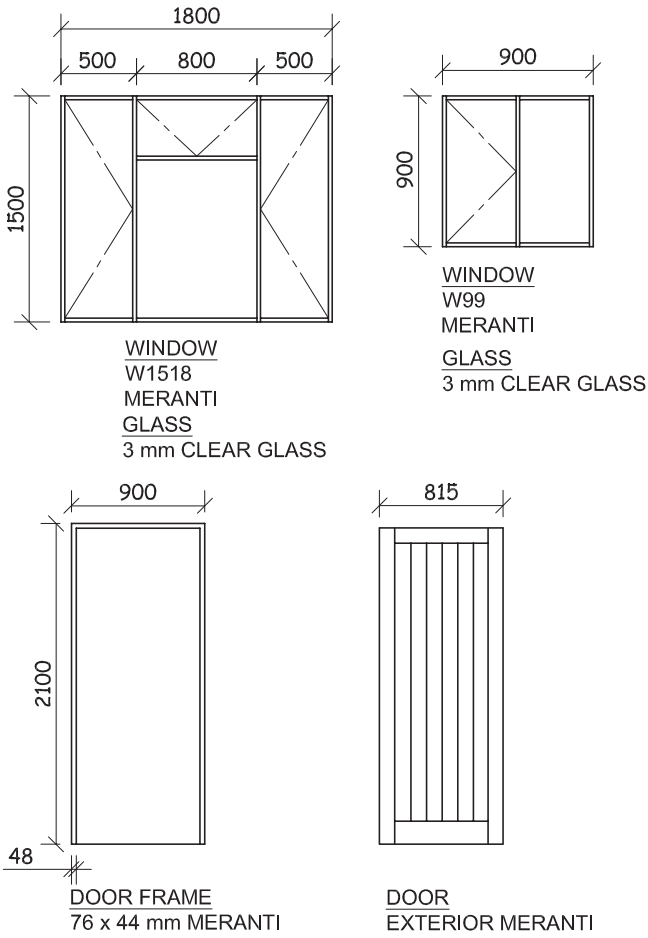
EXAMINATION NUMBER

EXAMINATION NUMBER

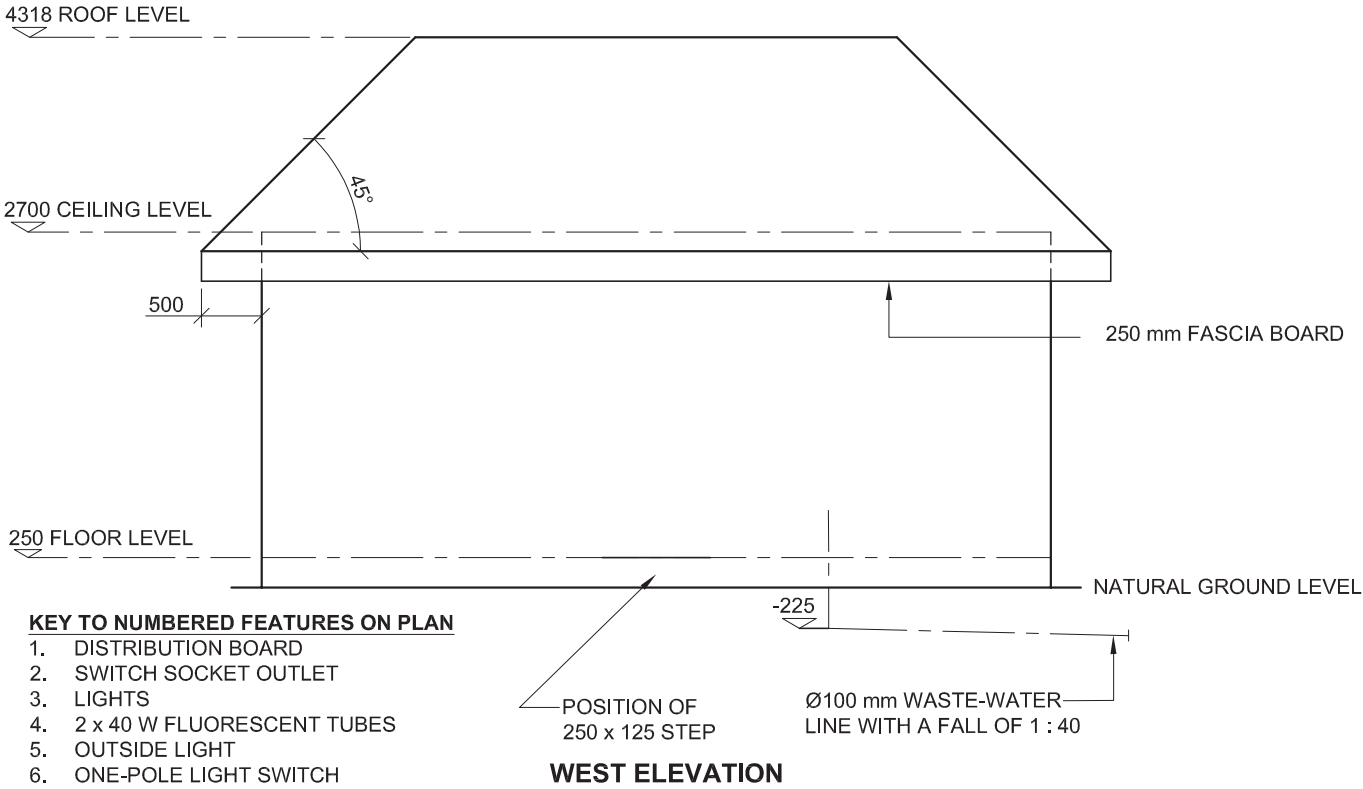
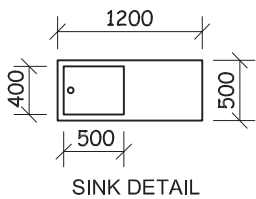
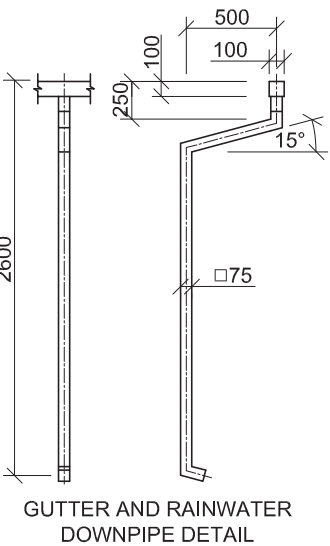
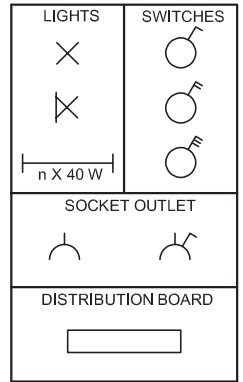
6



# DOOR AND WINDOW SCHEDULE

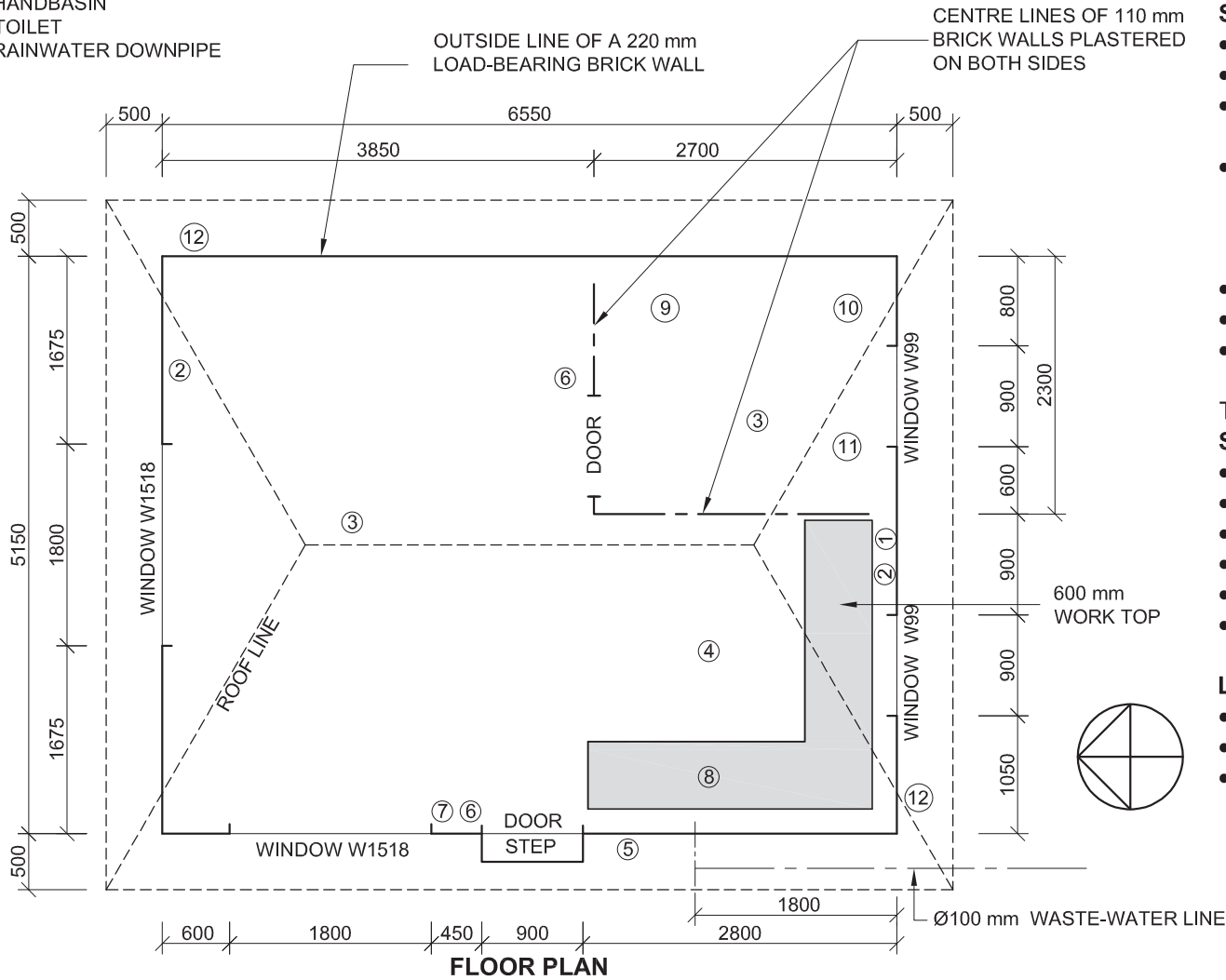


## ELECTRICAL SYMBOLS



## 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).

[97]



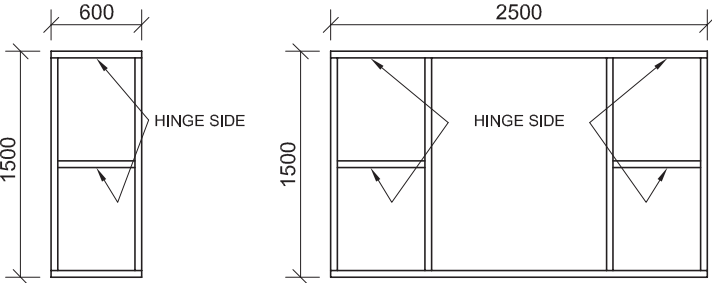


ASSESSMENT CRITERIA				
WEST ELEVATION				
	POSSIBLE	OBTAINED	SIGN	MODERATE
1. ROOF + FASCIA	5			
2. GUTTER + RWDP	6			
3. WALLS + FFL	3½			
4. WINDOWS + DOOR + STEP	13½			
5. WASTE-WATER	2			
6. LABELS	4			
<b>SUBTOTAL</b>	<b>34</b>			
FLOOR PLAN				
1. ROOF	4½			
2. WALLS	6½			
3. WINDOW + DOOR + STEP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

EXAMINATION NUMBER	
EXAMINATION NUMBER	6



DOOR AND WINDOW SCHEDULE

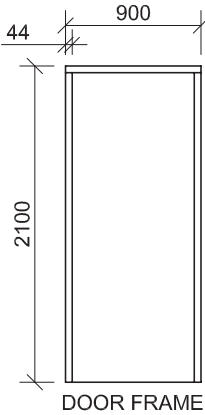


WINDOW  
SG1  
MERANTI

GLASS  
3 mm CLEAR GLASS

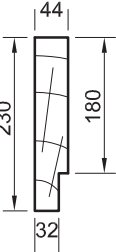
WINDOW  
SH4  
MERANTI

GLASS  
3 mm CLEAR GLASS

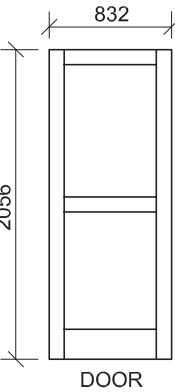


DOOR FRAME

DOOR FRAME  
230 x 44 mm MERANTI  
DOOR FRAME



FRAME  
PROFILE



DOOR

DOOR  
EXTERIOR  
MERANTI DOOR

ELECTRICAL SYMBOLS

LIGHTS	SWITCHES	SOCKET OUTLETS

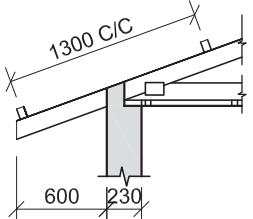
ROOF NOTES:  
ROOF COVER:  
15 mm RCP ON 75 x 50 mm  
PURLINS @ 1 300 C/C

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

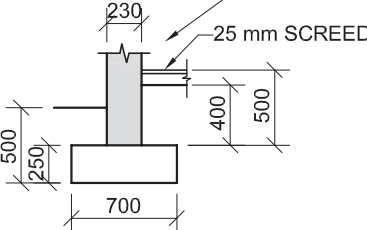
228 x 38 mm FASCIA BOARD

6 mm CEILING BOARD  
ON 38 x 38 mm BATTENS  
@ 1 200 mm C/C

ROOF PITCH 20°



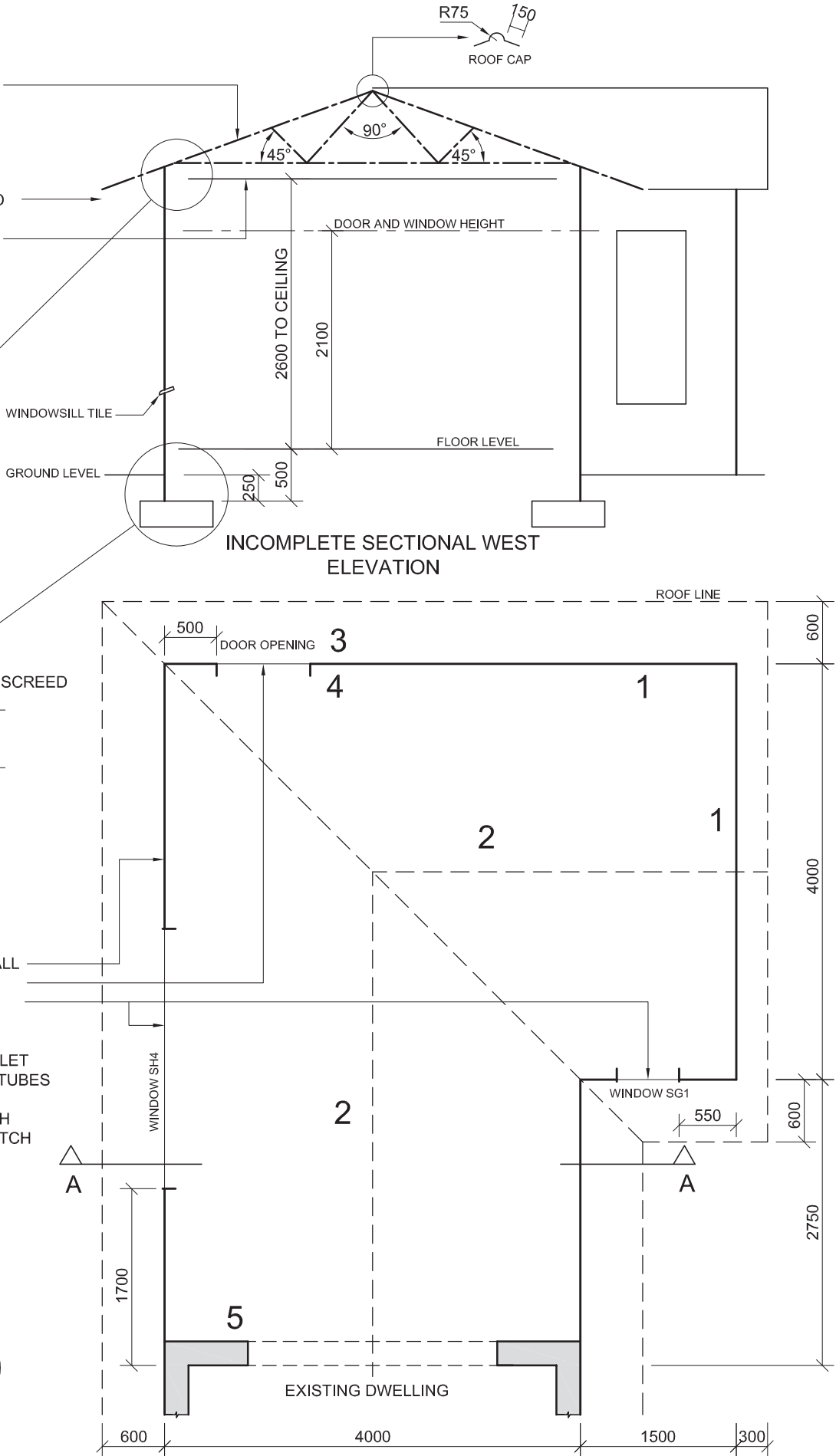
INCOMPLETE ROOF AND  
WALL DETAIL



INCOMPLETE FOUNDATION  
AND WALL DETAIL

EXTERIOR FEATURES  
230 mm LOAD-BEARING WALL  
DOOR OPENING  
WINDOW OPENINGS

ELECTRICAL FEATURES  
1. SWITCHED SOCKET OUTLET  
2. 2 x 40 W FLUORESCENT TUBES  
3. OUTSIDE LIGHT  
4. TWO-POLE LIGHT SWITCH  
5. SINGLE-POLE LIGHT SWITCH



INCOMPLETE FLOOR PLAN

QUESTION 4: CIVIL DRAWING

Given:

- The incomplete sectional west elevation on cutting plane A-A of a new **family room** showing the outline of the walls and a schematic drawing of the roof truss
- The incomplete floor plan of the new **family room** showing the outline of the walls and the positions of all the features, notes and dimensions
- A door and window schedule
- A table of electrical symbols
- The incomplete roof and wall detail
- The incomplete foundation and wall detail
- The complete north elevation of the new **family room**, drawn to scale, on page 6

Instructions:

- Answer this question on page 6.
- Using the given north 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 west 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 door and windows
- ALL the electrical features as indicated with numbers on the incomplete floor plan
- The roof line
- The cutting plane A-A

THE SECTIONAL WEST ELEVATION

Show the following features on the drawing:

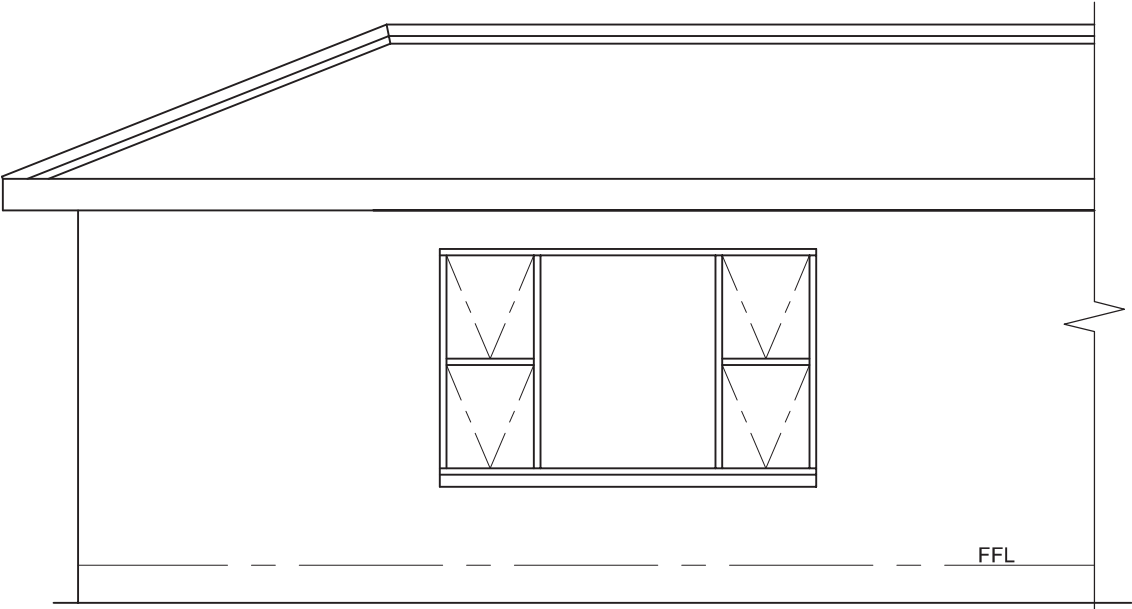
- The complete foundation, wall, slab and roof truss detail
- The door and window detail
- ALL hatching detail
- ALL other detail of the family room as seen from the west

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 designation (family room) and floor finish (ceramic tile)

NOTE:

ALL substructure hatching may be drawn in freehand. [97]



NORTH ELEVATION


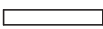

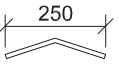
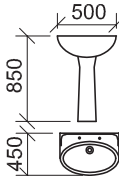
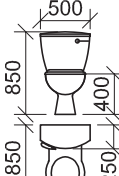
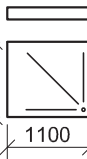


EXISTING DWELLING



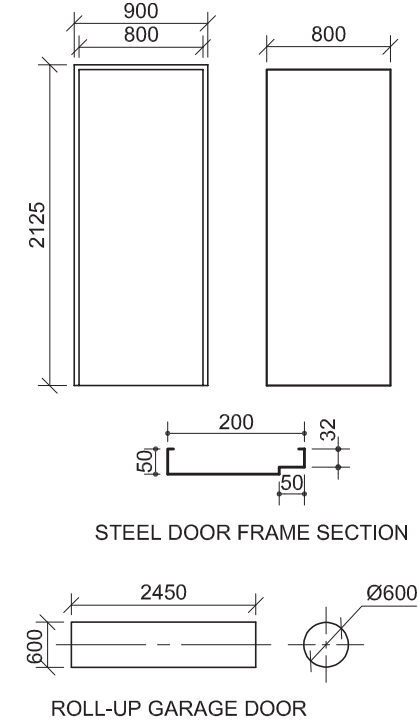
ASSESSMENT CRITERIA					
SECTIONAL WEST ELEVATION					
		POSSIBLE	OBTAINED	SIGN	MODERATE
1	ROOF + CEILING	24½			
2	WINDOW + DOOR	14			
4	WALLS + FLOOR + FOUNDATION	11½			
5	HATCHING	5½			
6	LABELS	3½			
SUBTOTAL		59			
FLOOR PLAN					
1	ROOF	4			
2	WINDOWS + DOOR	7			
3	WALLS	9			
4	ELECTRICAL	8½			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

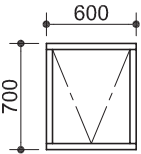
DOOR SCHEDULE

DOOR  
1 x STANDARD-SIZED DOOR



WINDOW SCHEDULE

WINDOW  
1 x STANDARD D1-SIZED STEEL FRAME











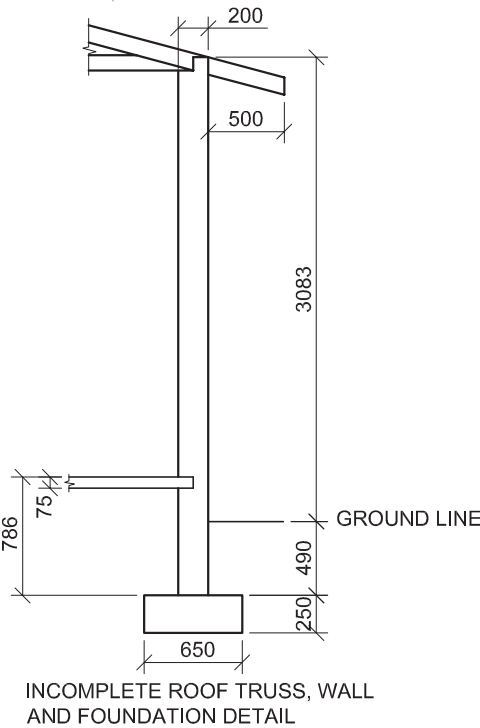
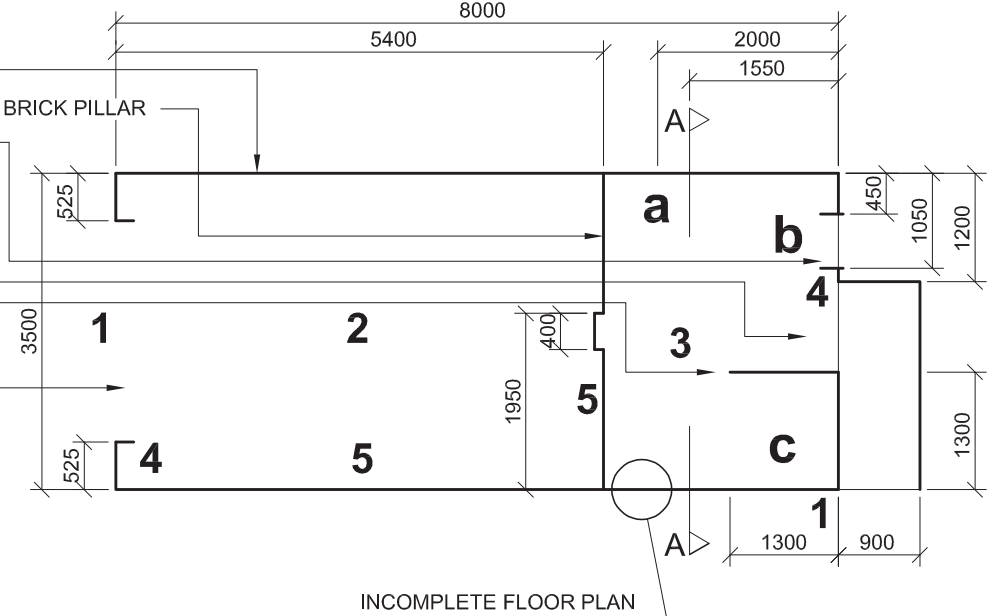
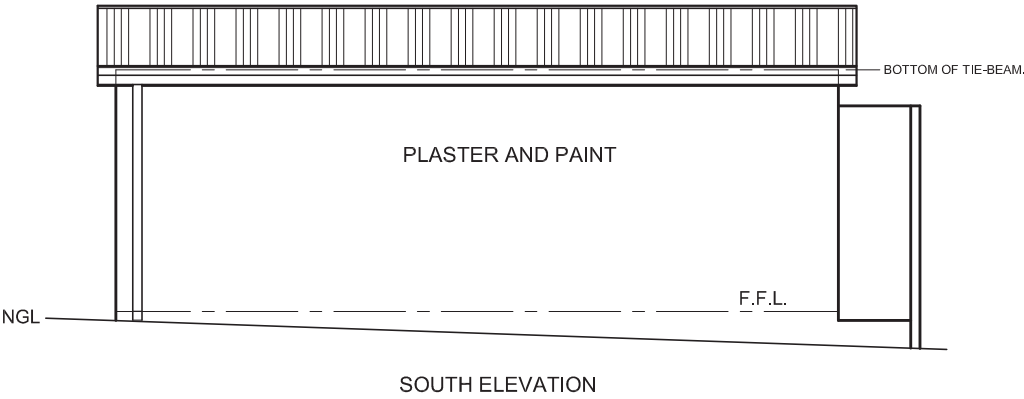
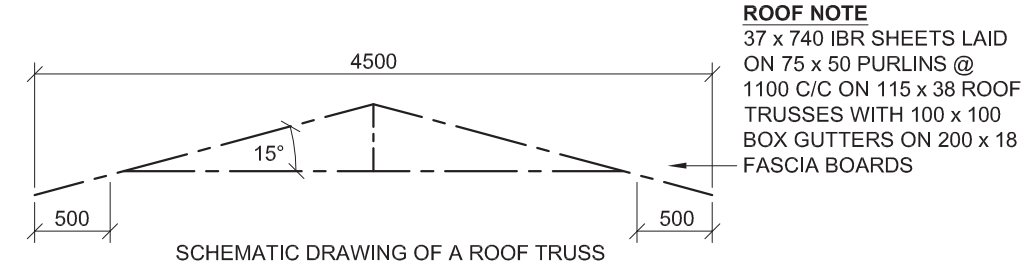
LIST OF FEATURES

- 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		
		



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:

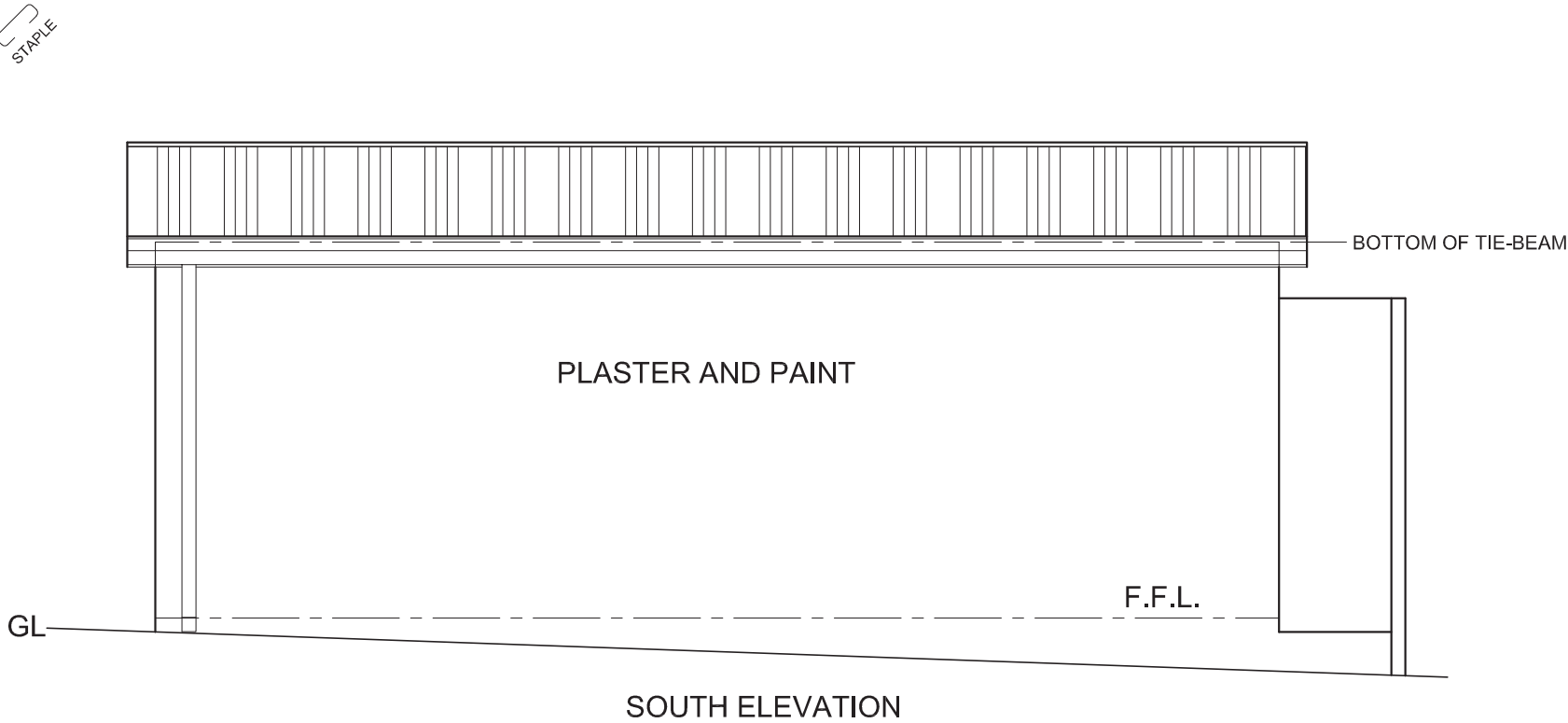
- The complete foundation, wall, slab and roof truss detail
- The door and window detail
- The WC and shower detail
- ALL hatching detail

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:

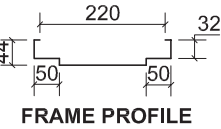
ALL substructure hatching may be drawn in freehand. [90]



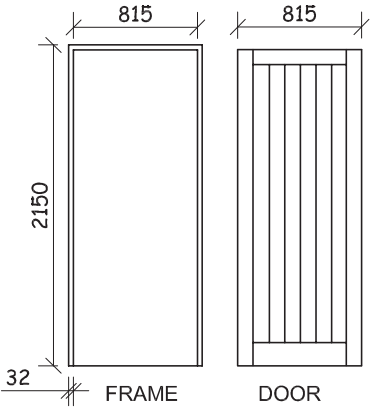
ASSESSMENT CRITERIA				
PLAN				
	POSSIBLE	OBTAINED	SIGN	MODERATE
1 CORRECT SCALE	1			
2 WALLS + HATCHING	17½			
3 WINDOW + DOORS	7			
4 FIXTURES	5			
5 ELECTRICAL	10			
6 LABELS + C'PLANE	5			
SECTIONAL ELEVATION				
1 CORRECT SCALE	1			
2 WALLS + FOUNDATION + HATCHING	19			
3 WINDOW + DOORS	8			
4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

# FEATURE SCHEDULE

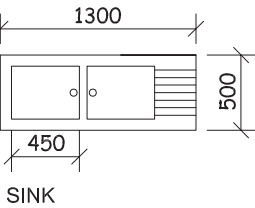
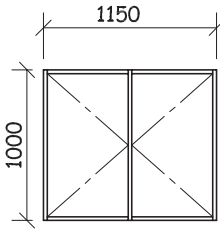
DOOR FRAME  
STANDARD, EXTERNAL,  
MILD STEEL



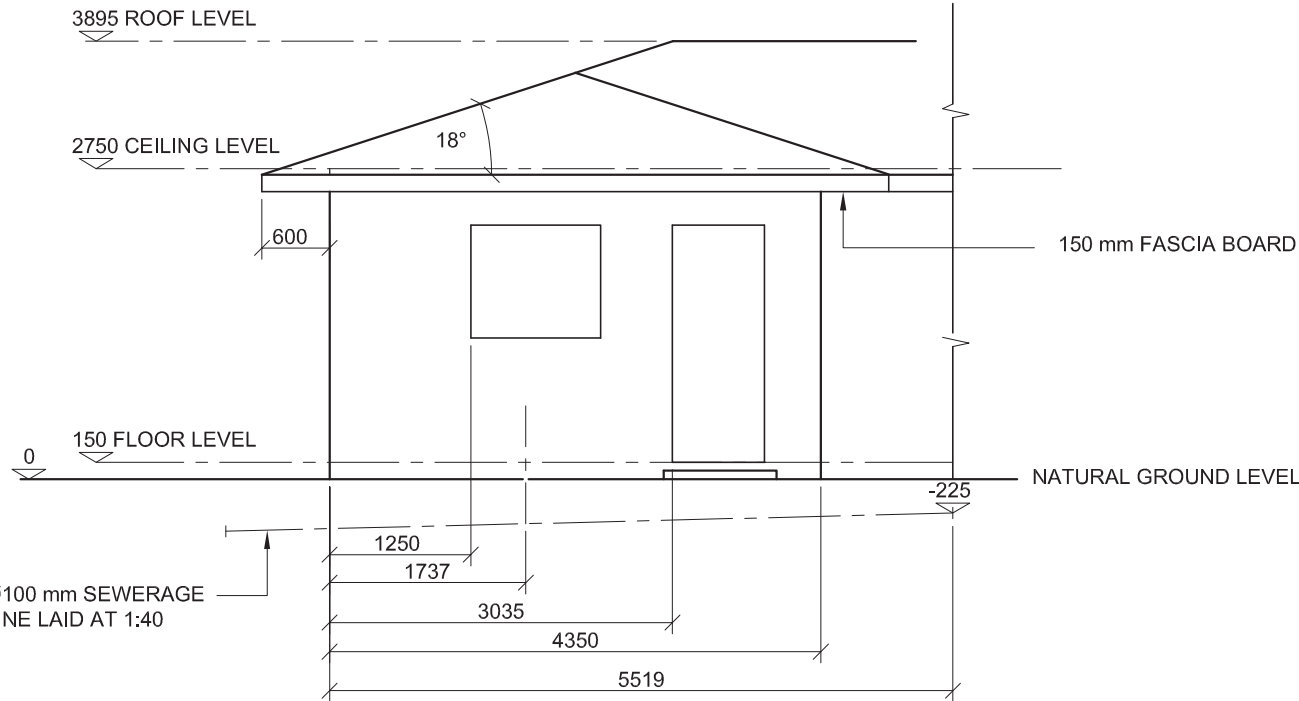
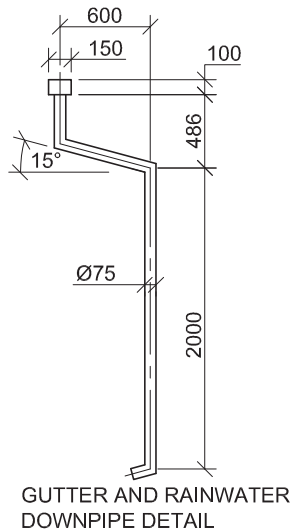
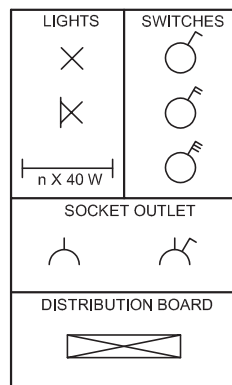
DOOR  
H/W FRAMED, LEDGED  
AND BATTENED



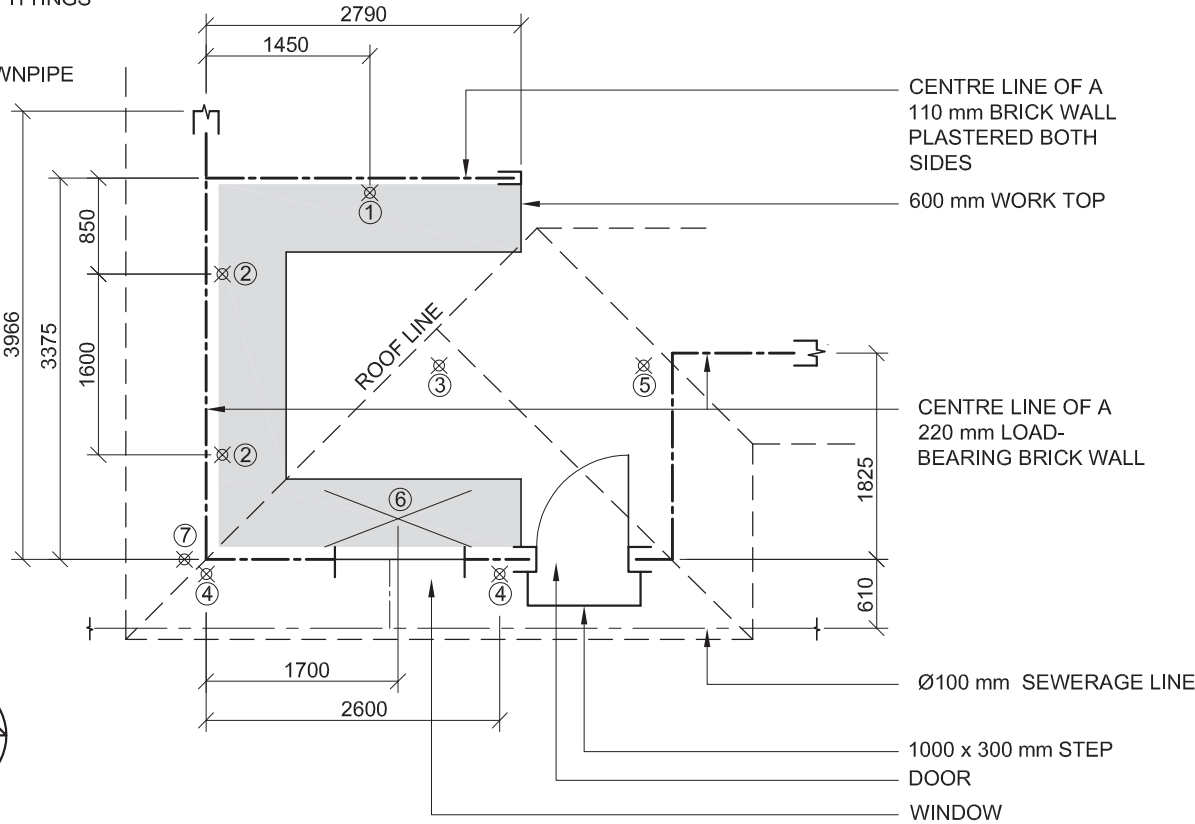
WINDOW  
STANDARD C2 TIMBER  
FRAME



ELECTRICAL LEGEND



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



## 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

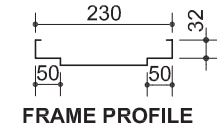
6





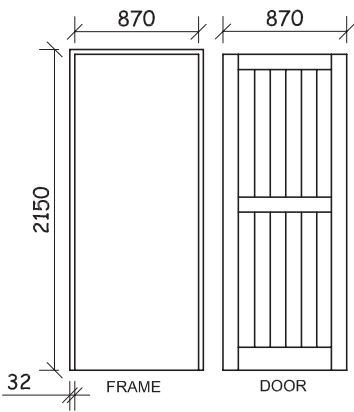
DOOR AND WINDOW SCHEDULE		
PROPOSED NEW TV ROOM ON ERF 329 EAST LONDON	DRAWING NUMBER DOE 2-08	DOOR DEN 7 SIDE ROAD EAST LONDON 043 708 5555

DOOR FRAME  
STANDARD, EXTERNAL,  
MILD STEEL

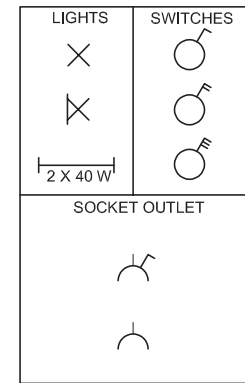


DOOR  
H/W FRAMED, LEDGED  
AND BATTENED

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

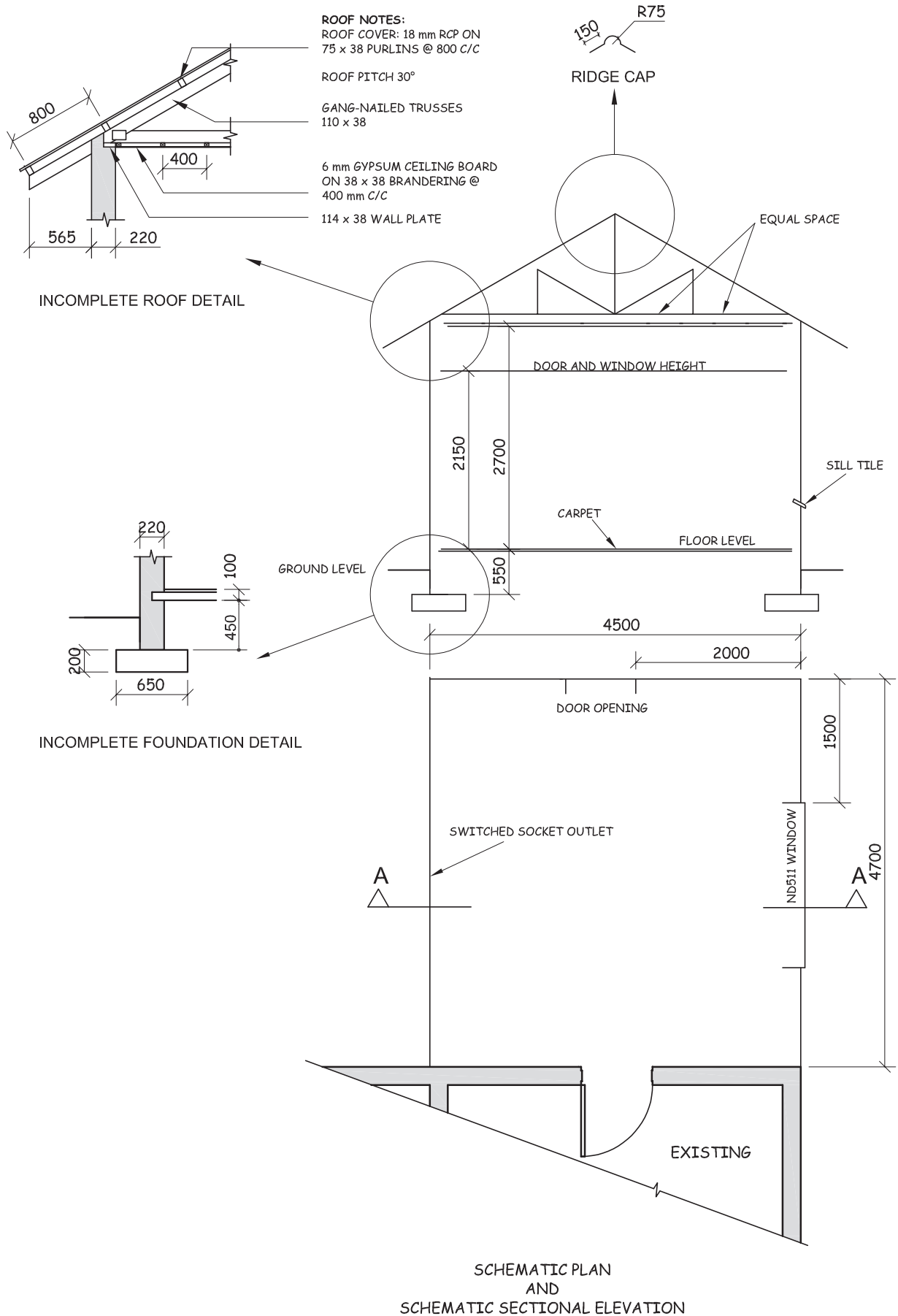
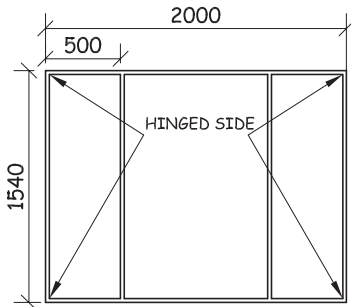


ELECTRICAL LEGEND



WINDOW  
STANDARD, MILD STEEL,  
ND 511

GLAZING  
3 mm CLEAR GLASS



### 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

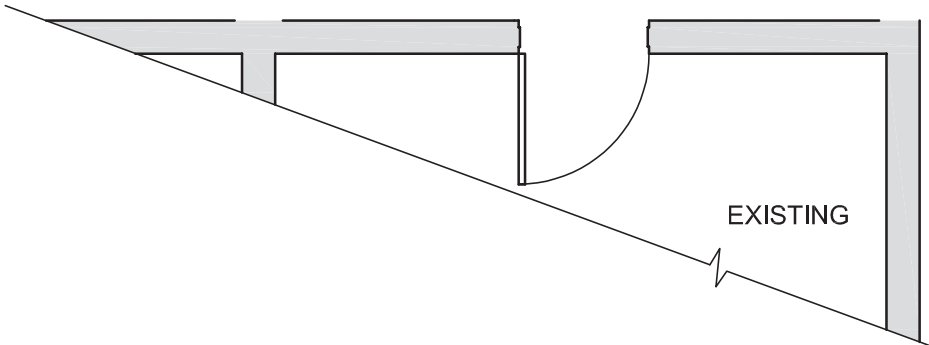
*Schematic diagram:* a diagram that shows the main features or relationships but not the details.



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 & BRANDERING	12	
13 LABELS	5	
TOTAL 97		

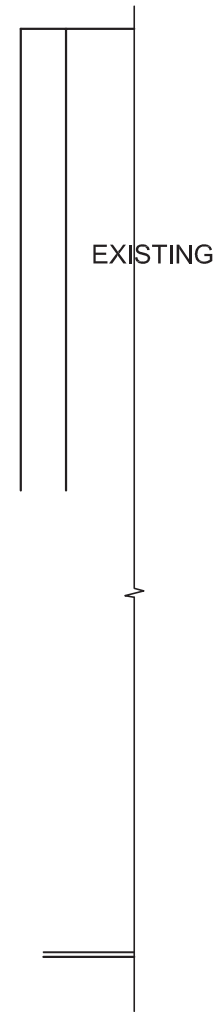


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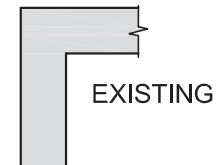
EXAMINATION NUMBER

6





EXISTING



EXISTING

POSSIBLE	OBTAINED
----------	----------

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	

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

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EXAMINATION NUMBER

5