GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

**JUNE EXAMINATION**
**2026**

# ENGINEERING GRAPHICS AND DESIGN

# (PAPER 1)

# MARKING GUIDELINES

**7 PAGES**

| ANSWERS | | |
|---|---|---|
| 1 | 25/09/2025 | 1 |
| 2 | PROJECT NUMBER | 1 |
| 3 | HORNBILL ROAD & JACARANDA AVENUE | 1 |
| 4 | J.S. CAMBELL | 1 |
| 5 | 29/09/2025 | 1 |
| 6 | 2 | 1 |
| 7 | NO | 1 |
| 8 | SWD | 1 |
| 9 | 6 m | 1 |
| 10 | 12 x 6 = 72 | 1 |
| 11 | MANHOLE | 1 |
| 12 | WATT/ ELECTRICAL METER | 1 |
| 13 | DISTANCE FROM BOUNDARY | 1 |
| 14 | THE RIVER | 1 |
| 15 | SHORT DASHED LINE | 1 |
| 16 | 1741 | 2 |
| 17 | SOUTH EAST/ SE | 2 |
| 18 | *SEE ANSWER 18, 19 & 20 BELOW.* | 3 |
| 19 | | 3 |
| 20 | | 5 |
| | **TOTAL:** | **30** |

### ANSWER 18

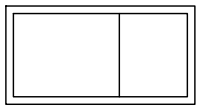
A = L x B APPLYING CORRECT FORMULA ✓
= (19,5 x 5,5) + (10 x 5) + $\frac{1}{2}$(10 x 9,5)
= 204,75 m² CORRECT ANSWER ✓
ANSWER IN m² ✓

### ANSWER 19

APPLYING CORRECT FORMULA ✓
$F_T = S_1 + S_2 + S_3$ - TURNSTILE
= 18,56 + 3,5 + 18,56 - 2
= 38,62 CORRECT ANSWER ✓
ANSWER IN METRE ✓

### ANSWER 20

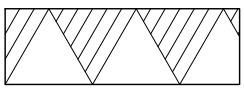
(a)



OUTER RECTANGLE 1
INNER RECTANGLE 1
LINE 0,5

BOTH FREEHAND 0,5

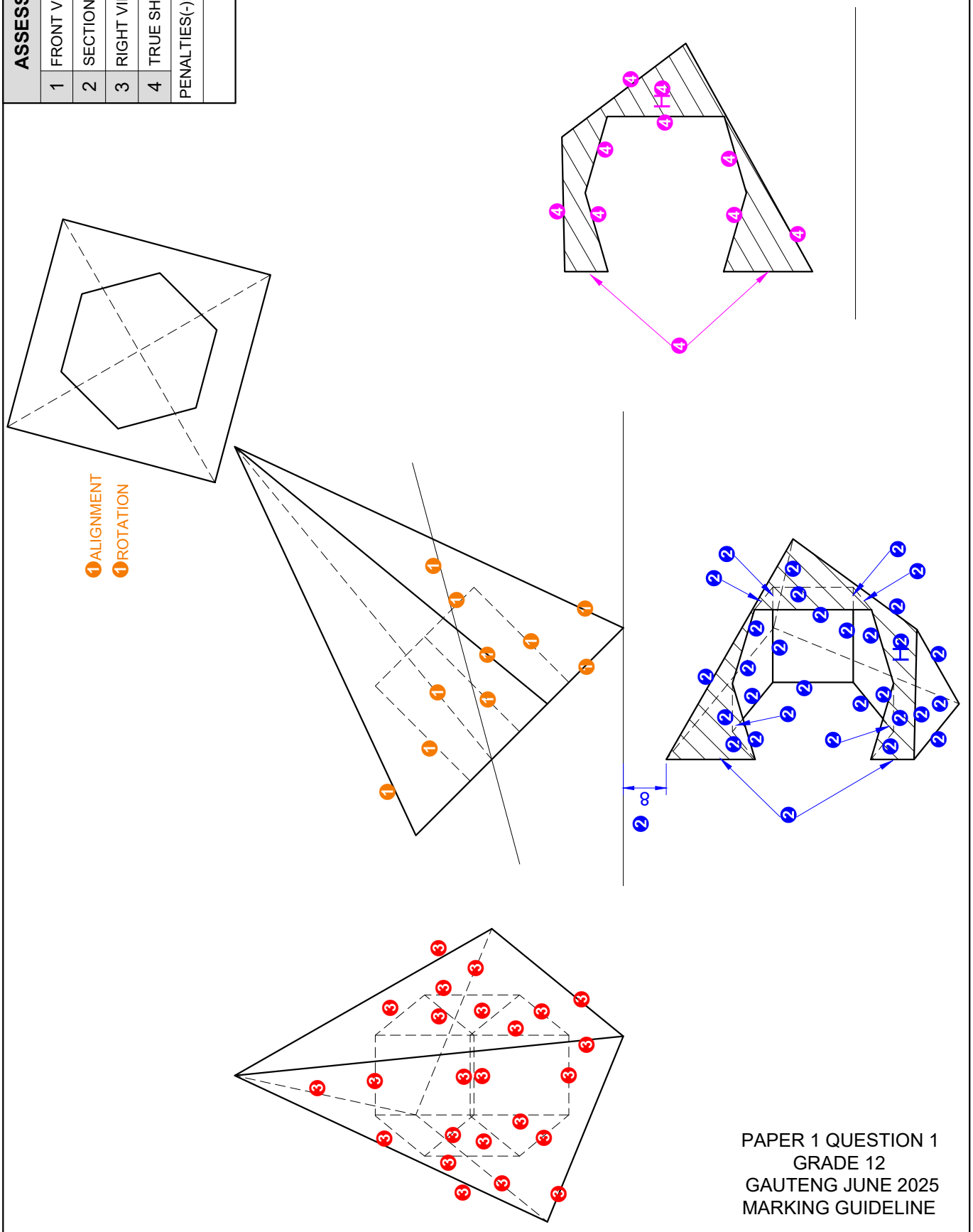
(b)



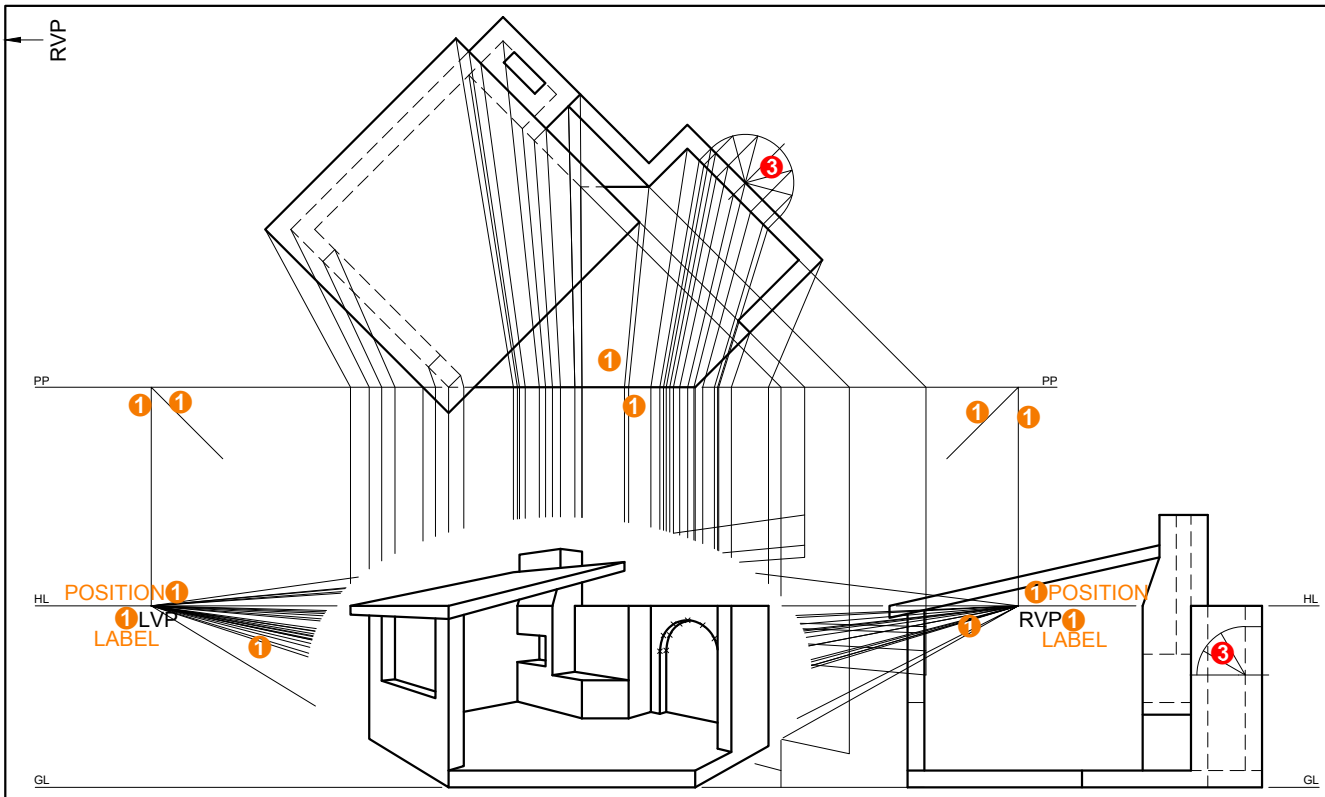
TRIANGLE 0,5
ADD. LINES 0,5
OPEN SPACES 0,5
REPEAT 0,5

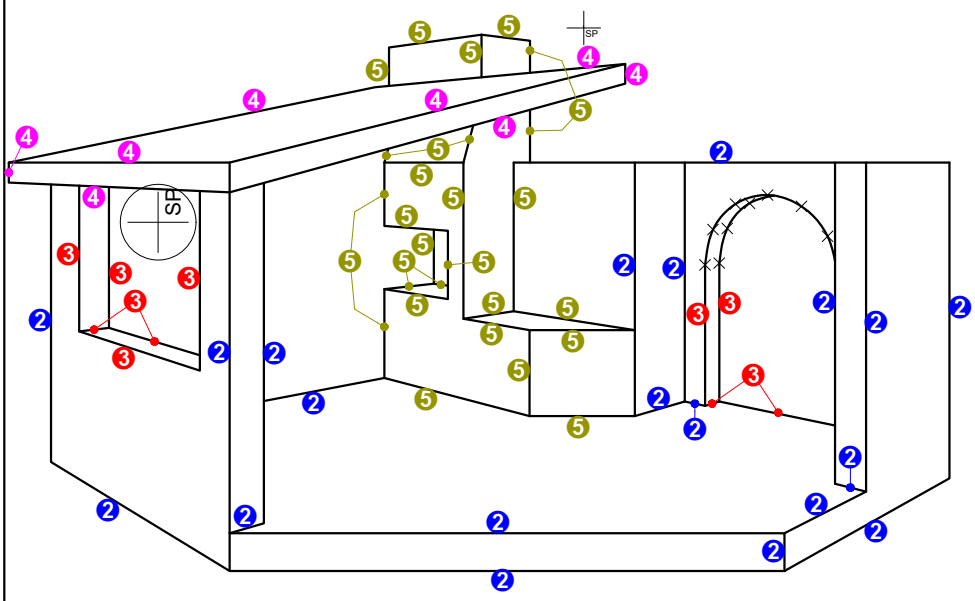
PAPER 1 QUESTION 1
GRADE 12
GAUTENG JUNE 2025
MARKING GUIDELINE

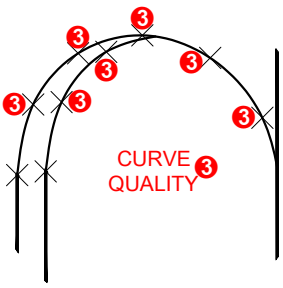
| ASSESSMENT CRITERIA | | |
|---|---|---|
| 1 | FRONT VIEW | 6 |
| 2 | SECTIONAL TOP VIEW | 16 |
| 3 | RIGHT VIEW | 12 |
| 4 | TRUE SHAPE | 5 |
| | PENALTIES(-): | |
| | TOTAL: | 39 |

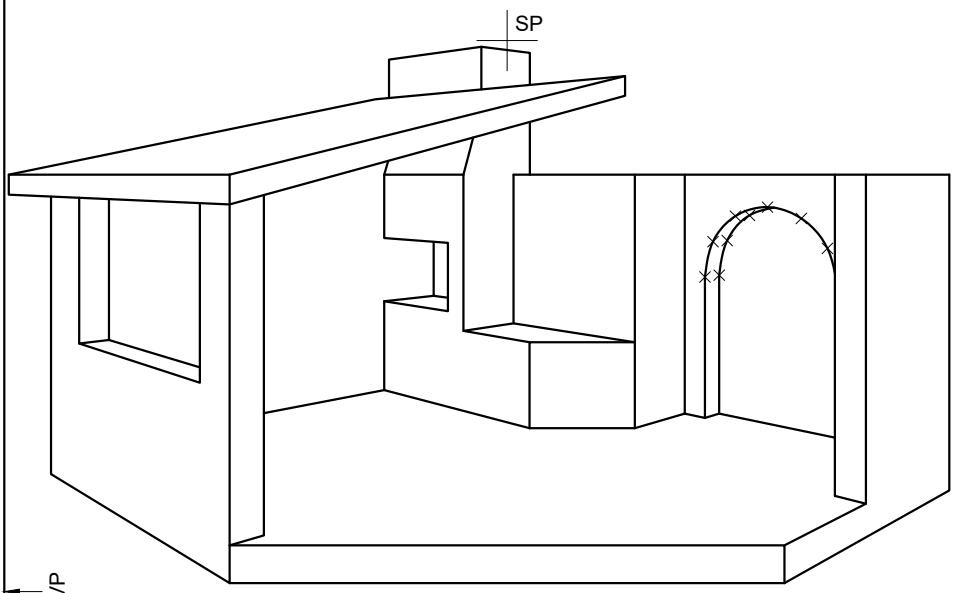



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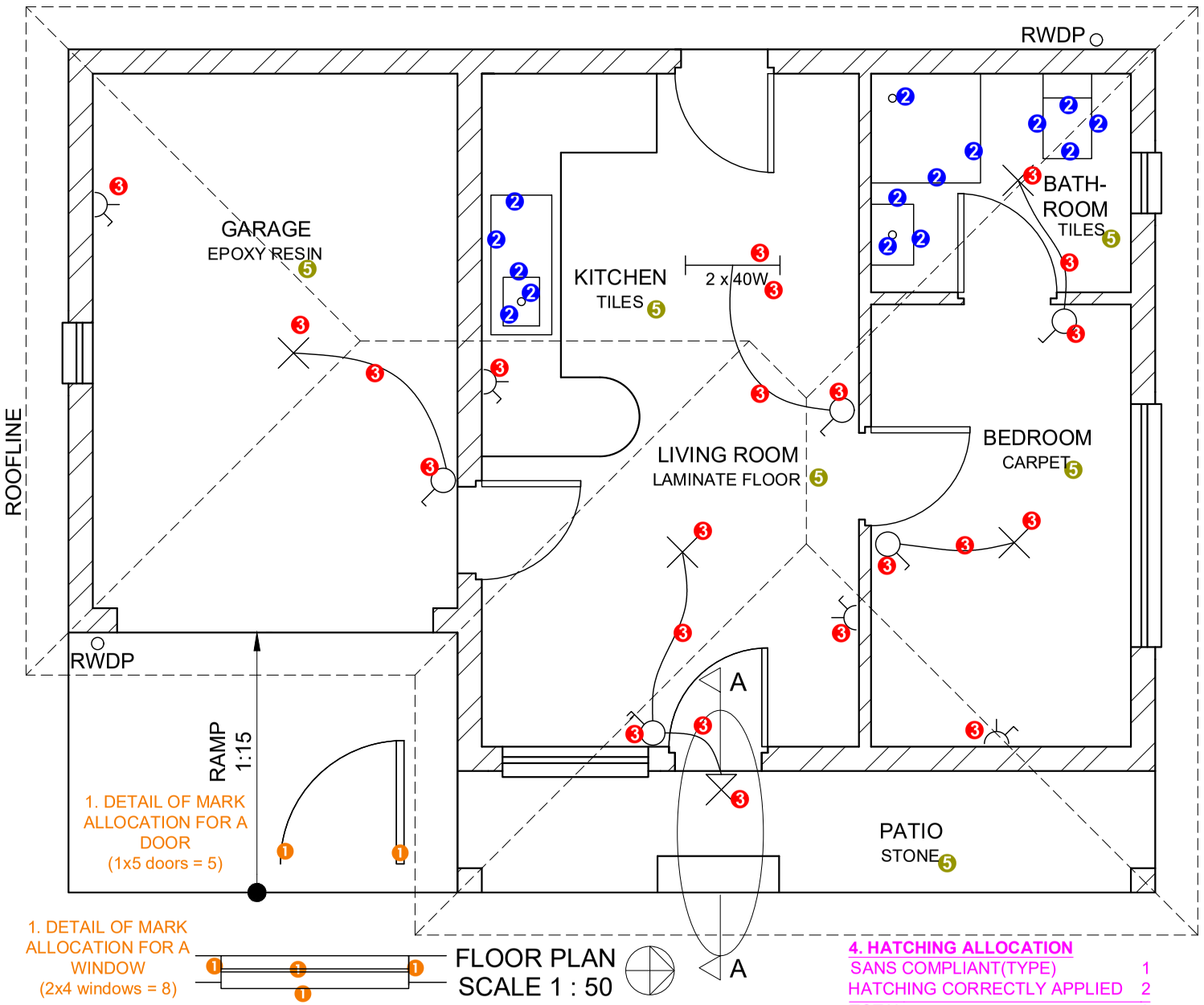




PAPER 1 QUESTION 3
GRADE 12
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| ASSESSMENT CRITERIA | | |
|---|---|---|
| 1 | CONSTRUCTION & VPs | 6 |
| 2 | WALLS + FLOOR | 10 |
| 3 | WINDOW + ARCH | 9 |
| 4 | ROOF | 4 |
| 5 | BRAAI + CUPBOARD | 11 |
| | **TOTAL:** | 40 |

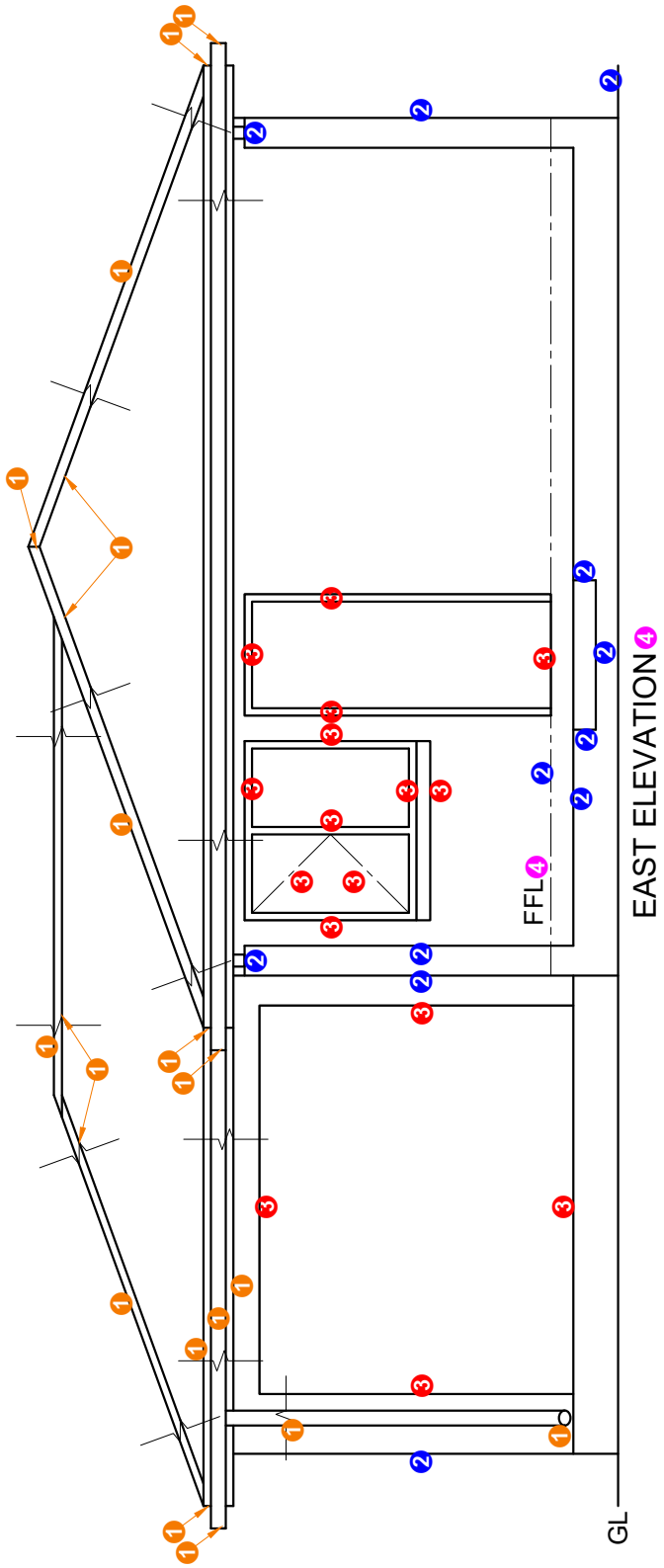



PAPER 1 QUESTION 4
GRADE 12
GAUTENG JUNE 2025
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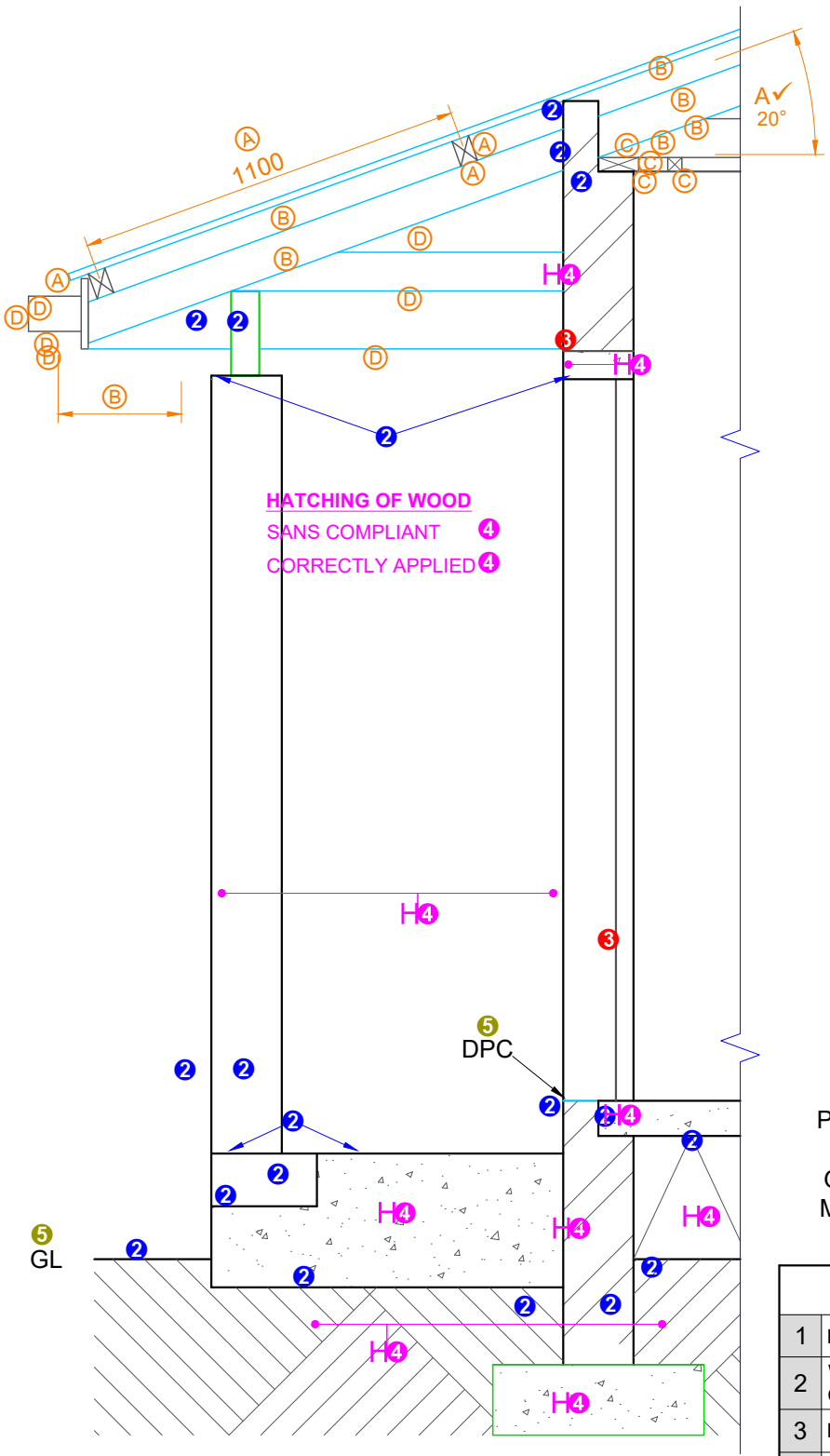
| FLOOR PLAN | | |
|---|---|---|
| | | POSSIBLE |
| 1 | WINDOWS + DOORS | 13 |
| 2 | FIXTURES | 7 ½ |
| 3 | ELECTRICAL | 11 |
| 4 | HATCHING | 3 |
| 5 | LABELS | 3 |
| **SUBTOTAL:** | | 37 ½ |

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| EAST ELEVATION | | |
|---|---|---|
| 1 | ROOF + RWDP | 9 |
| 2 | WALLS + STEP + COLUMNS + PATIO | 6 1/2 |
| 3 | DOOR + WINDOW + GARAGE | 8 |
| 4 | LABELS | 1 |
| | **SUBTOTAL:** | 24 1/2 |




EAST ELEVATION 4




SECTION A-A
SCALE 1 : 20

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| DETAILED SECTION | | |
|---|---|---|
| 1 | ROOF DETAIL | 12 |
| 2 | WALL + SLAB + STEP + COLUMN | 9 $\frac{1}{2}$ |
| 3 | DOOR + LINTEL | 1 |
| 4 | HATCHING | 5 $\frac{1}{2}$ |
| 5 | LABELS | 1 |
| **SUBTOTAL:** | | 29 |