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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**SENIOR CERTIFICATE/
NATIONAL SENIOR CERTIFICATE**

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1

NOVEMBER 2020

MARKING GUIDELINES

MARKS: 100

These marking guidelines consist of 8 pages.

| ANSWERS | | |
|---------|-----------------------------|----|
| 1 | 422-2019 | 1 |
| 2 | (MR) A BOBANI | 1 |
| 3 | 2019-09-21 | 1 |
| 4 | 2 | 1 |
| 5 | 2 | 1 |
| 6 | 10810 | 1 |
| 7 | INSPECTION CHAMBER | 1 |
| 8 | 1,8 | 1 |
| 9 | RE | 1 |
| 10 | RED | 1 |
| 11 | BUILDING LINE / BL | 1 |
| 12 | EARTH / LIGHTNING CONDUCTOR | 1 |
| 13 | DRAIN FIELD | 1 |
| 14 | 1 : 30 | 1 |
| 15 | NORTH WEST | 2 |
| 16 | 4 | 2 |
| 17 | 14,89 | 2 |
| 18 | See the title panel | 3 |
| 19 | | 3 |
| 20 | | 4 |
| TOTAL | | 30 |

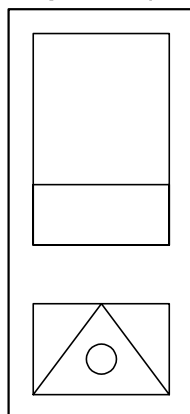
ANSWER 18

$$\begin{aligned} \text{Perimeter} &= (59,50 + 23,45 + 61,15 + 37,5) = 3,5 \\ &= 178,1 \text{ m} \end{aligned}$$

ANSWER 19

$$\begin{aligned} \text{Area} &= (10 \times 6) + (5,55 \times 8,14) + (2,5 \times 3,75) \\ &= 114,55 \text{ m}^2 \end{aligned}$$

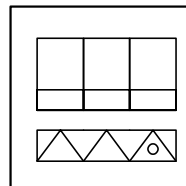
ANSWER 20



RECTANGLE 1
LINE 0,5
FREEHAND 0,5

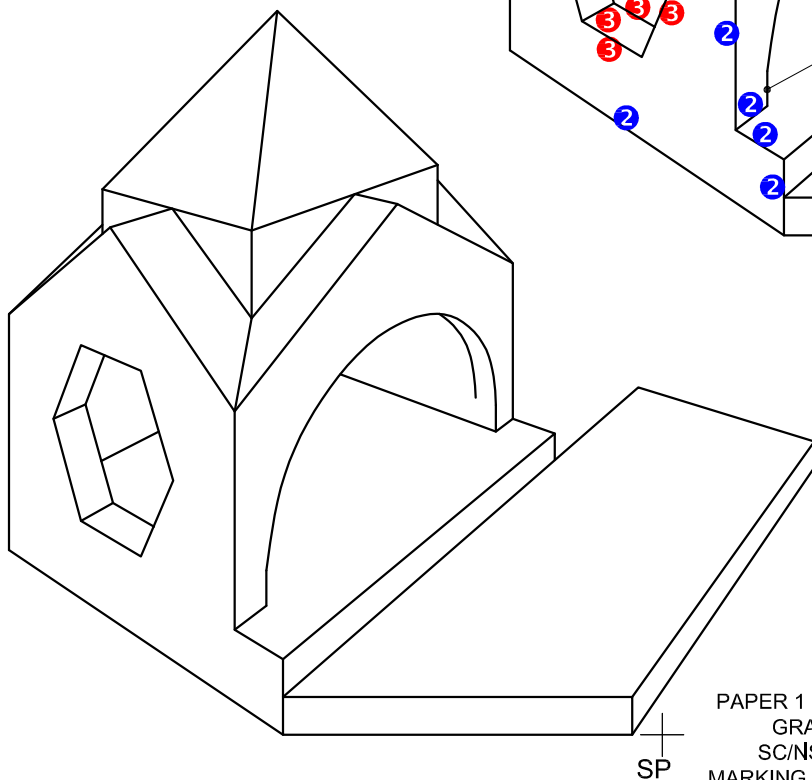
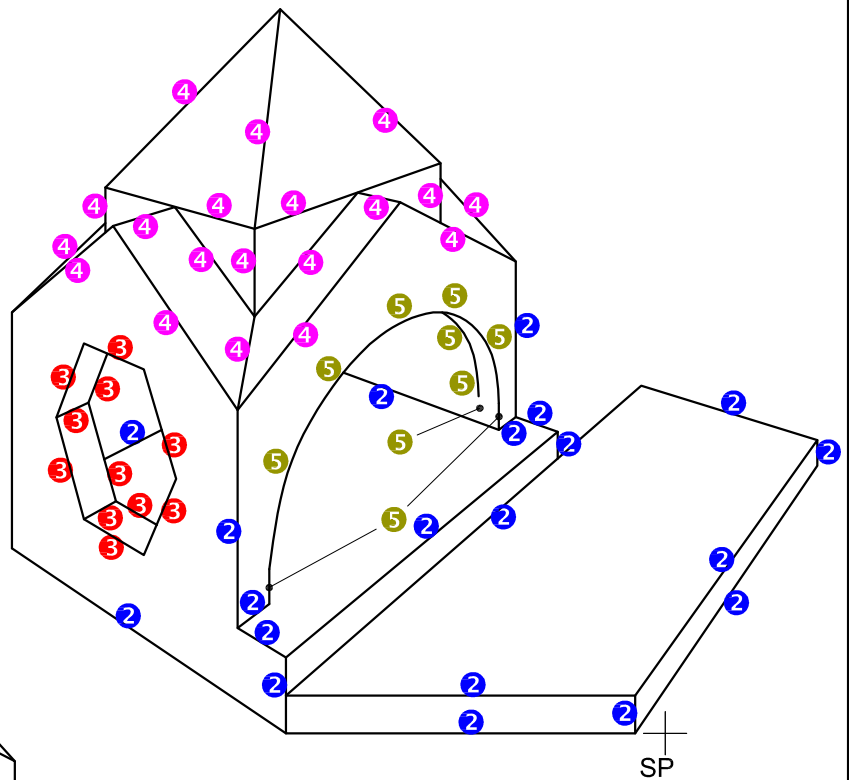
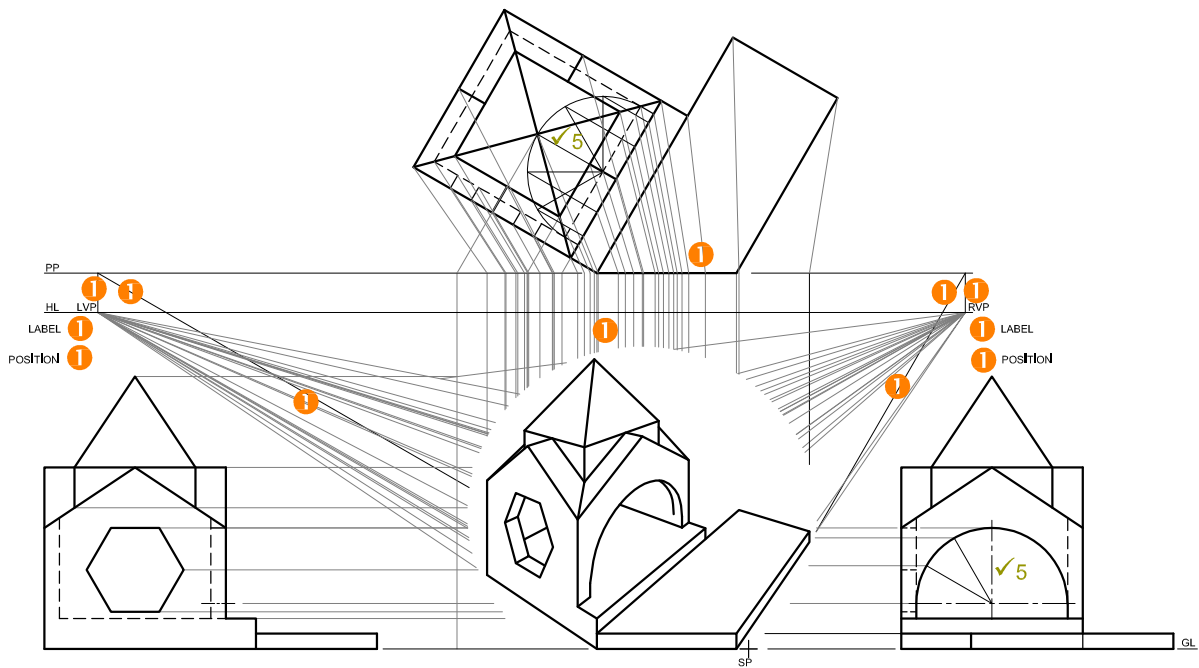
RECTANGLE 1
TRIANGLE 0,5
HOLE 0,5

SANS 10143



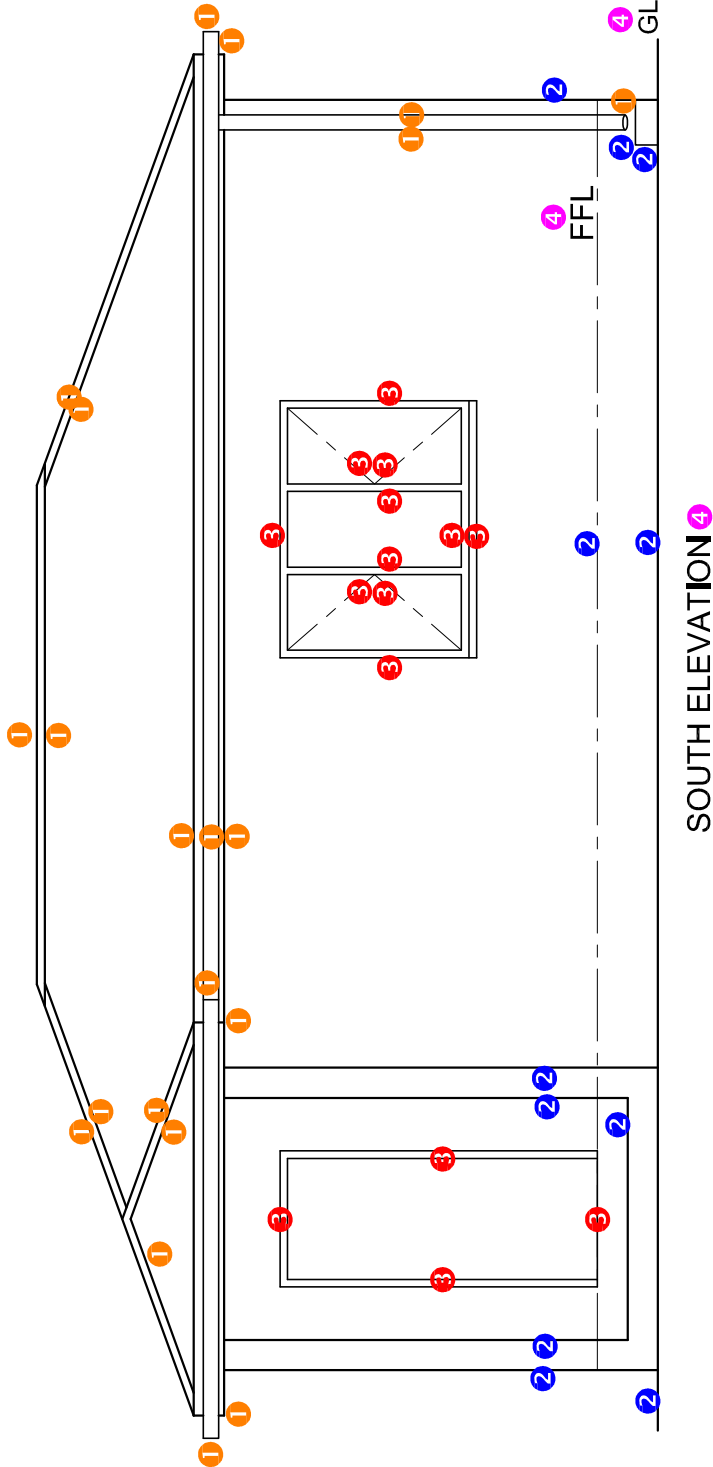
PAPER 1 QUESTION 1
GRADE 12
SC/NSC 2020
MARKING GUIDELINE

PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2019
MARKING GUIDELINES



PAPER 1 QUESTION 3
GRADE 12
SC/NSC 2020
MARKING GUIDELINES

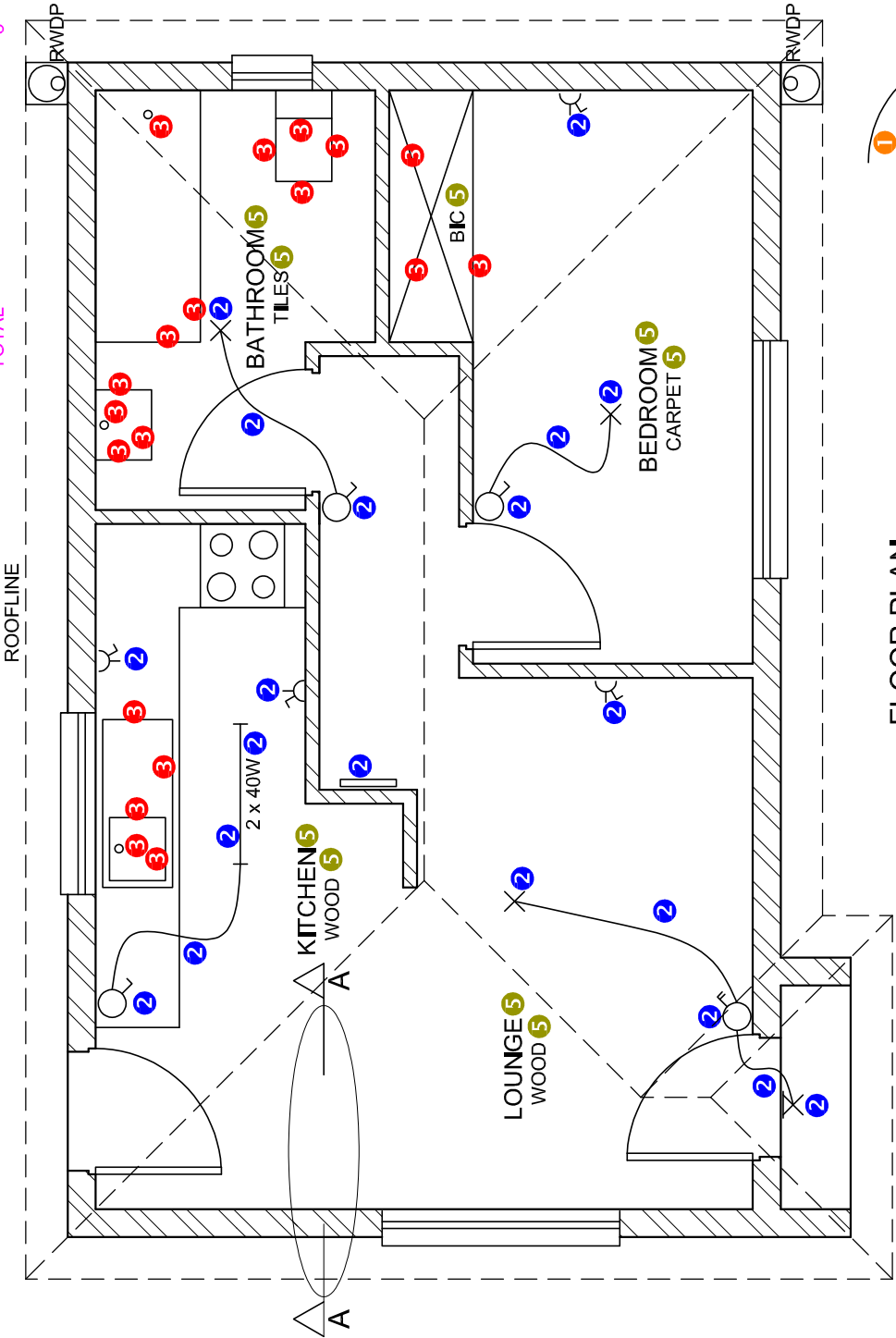
| ASSESSMENT CRITERIA | | |
|---------------------|-------------------|-----|
| 1 | CONSTRUCTION | 6 |
| 2 | WALLS | 10½ |
| 3 | HEXAGONAL OPENING | 5½ |
| 4 | ROOF | 9½ |
| 5 | CURVE | 6½ |
| TOTAL | | 38 |



| ASSESSMENT CRITERIA | |
|---------------------|---------------------|
| SOUTH ELEVATION | |
| 1 | ROOF + RWDP 10½ |
| 2 | WALLS + FFL 5½ |
| 3 | DOOR + WINDOW 7½ |
| 4 | LABELS 1½ |
| SUBTOTAL | |
| 25 | |

PAPER 1 QUESTION 4
GRADE 12
SC/NSC 2020
MARKING GUIDELINES

4 HATCHING ALLOCATION 1
SANS COMPLIANT (TYPE) 2
HATCHING CORRECTLY APPLIED 3
TOTAL 3



FLOOR PLAN SCALE 1 : 50

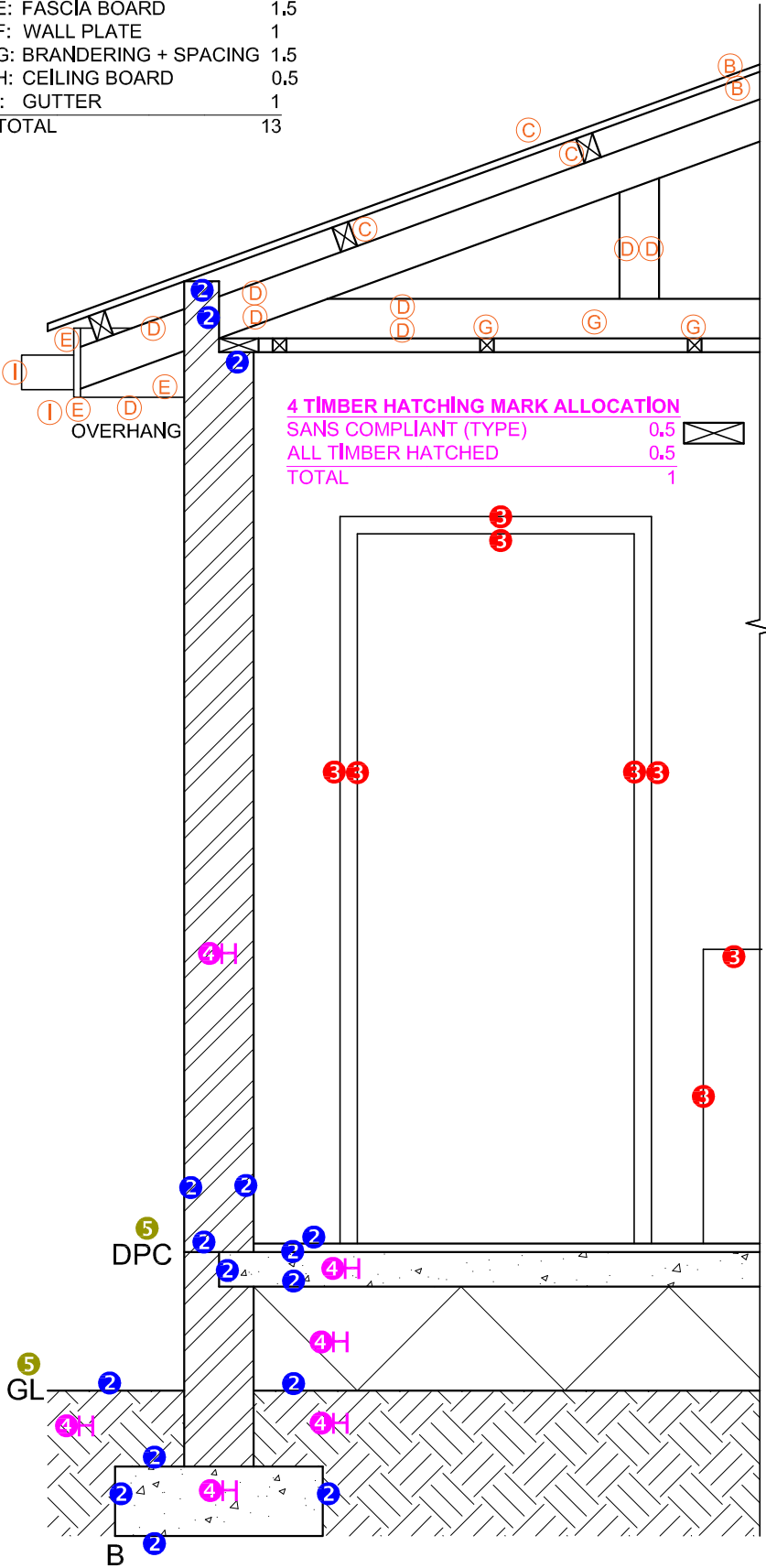


| ASSESSMENT CRITERIA | |
|---------------------|--------------------|
| FLOOR PLAN | |
| 1 | DOORS + WINDOWS 12 |
| 2 | ELECTRICAL 10 |
| 3 | FIXTURES 9½ |
| 4 | HATCHING 3 |
| 5 | LABELS 4½ |
| SUBTOTAL 39 | |

PAPER 1 QUESTION 4
GRADE 12
SC/NSC 2020
MARKING GUIDELINES

MARK ALLOCATION FOR ROOF (1)

| | |
|-----------------------|-----|
| A: ROOF ANGLE | 1 |
| B: ROOF SHEET | 1 |
| C: PURLIN + SPACING | 1.5 |
| D: TRUSS + OVERHANG | 4 |
| E: FASCIA BOARD | 1.5 |
| F: WALL PLATE | 1 |
| G: BRANDING + SPACING | 1.5 |
| H: CEILING BOARD | 0.5 |
| I: GUTTER | 1 |
| TOTAL | 13 |



DETAILED SECTION A-A
SCALE 1 : 20

PAPER 1 QUESTION 4
GRADE 12
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| ASSESSMENT CRITERIA | | |
|---------------------|-----------------|----|
| DETAILED SECTION | | |
| 1 | ROOF DETAIL | 13 |
| 2 | WALL | 8 |
| 3 | DOOR + CUPBOARD | 4 |
| 4 | HATCHING | 4 |
| 5 | LABELS | 1 |
| SUBTOTAL | | 30 |