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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1

NOVEMBER 2019

MARKING GUIDELINES

MARKS: 100

These marking guidelines consist of 8 pages.

ANSWERS		
1	CLARK	1
2	1818	1
3	KRYPTON PTY (LTD)	1
4	2018/12/20	1
5	VERIFY ALL DIMENSIONS AND LEVELS	1
6	GRAVEL	1
7	6 m	1
8	2044	1
9	BROWN	1
10	BUILD-IN CUPBOARD	1
11	TO BE REMOVED	1
12	NORTH	1
13	IE	1
14	SHRUBBERY	1
15	SEPTIC TANK and FRENCH DRAIN	2
16	SOUTH WEST	1
17	CLUBHOUSE, DECK, POOL	3
18	See below	3
19		3
20		4
TOTAL		30

ANSWER 18

$$\begin{aligned}
 &AB + BC + CD + DE + EF + FG + GA \\
 &= 16.06 + 7.05 + 23.36 + 26.41 + \\
 &\quad 18.07 + 53.16 + 47.69 \\
 &= 191.80 \text{ m}
 \end{aligned}$$

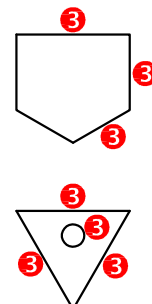
ANSWER 19

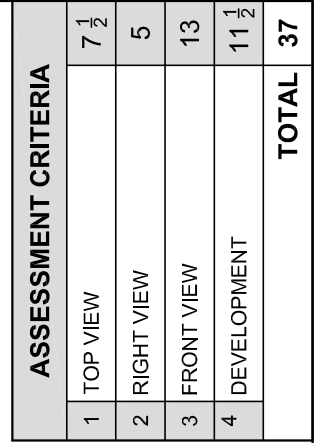
$$\begin{aligned}
 \text{AREA} &= (5 \times 6) + (7 \times 4) \\
 &= 30 + 28 \\
 &= 58\text{m}^2 \\
 &= 5.3 \times 5.95 \\
 &= 31.54\text{m}^2 \\
 &= 3 \times 5 \\
 &= 15\text{m}^2
 \end{aligned}$$

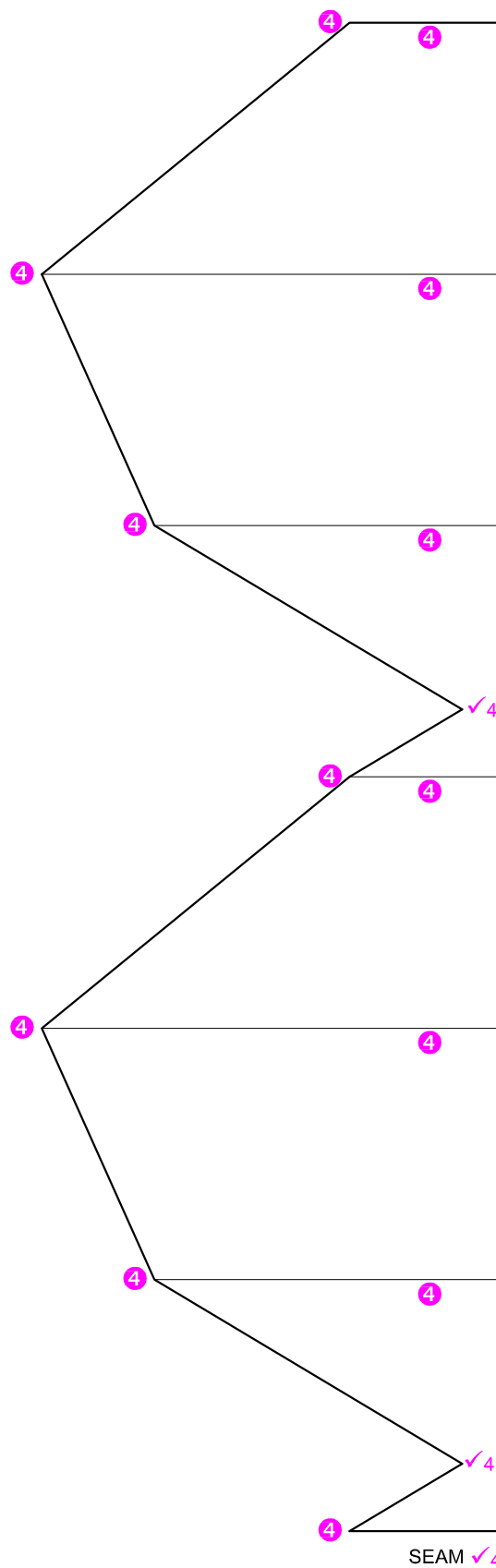
$$\begin{aligned}
 \text{AREA} &= 58 + 31.54 + 15 \\
 &= 104.54\text{m}^2
 \end{aligned}$$

ANSWER 20

FREEHAND

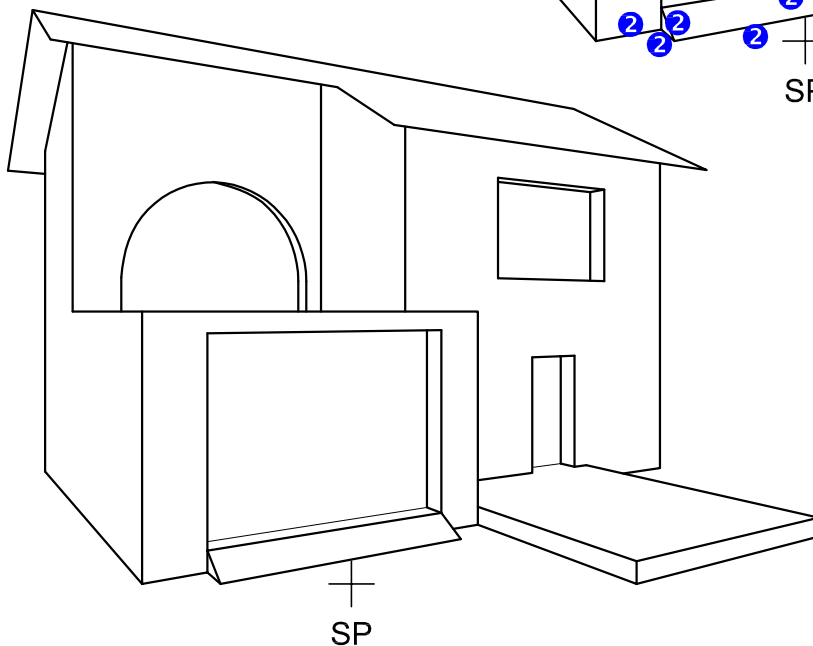
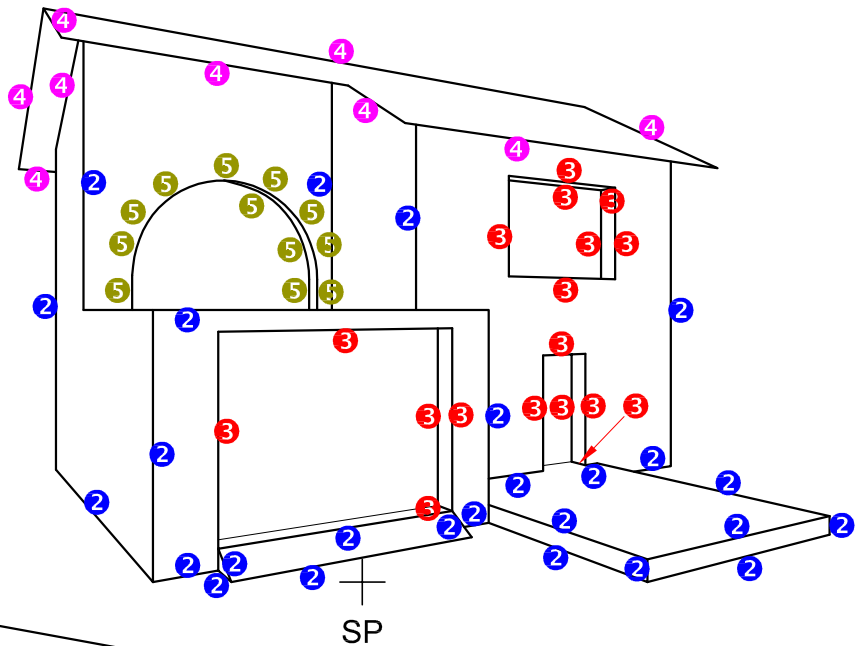
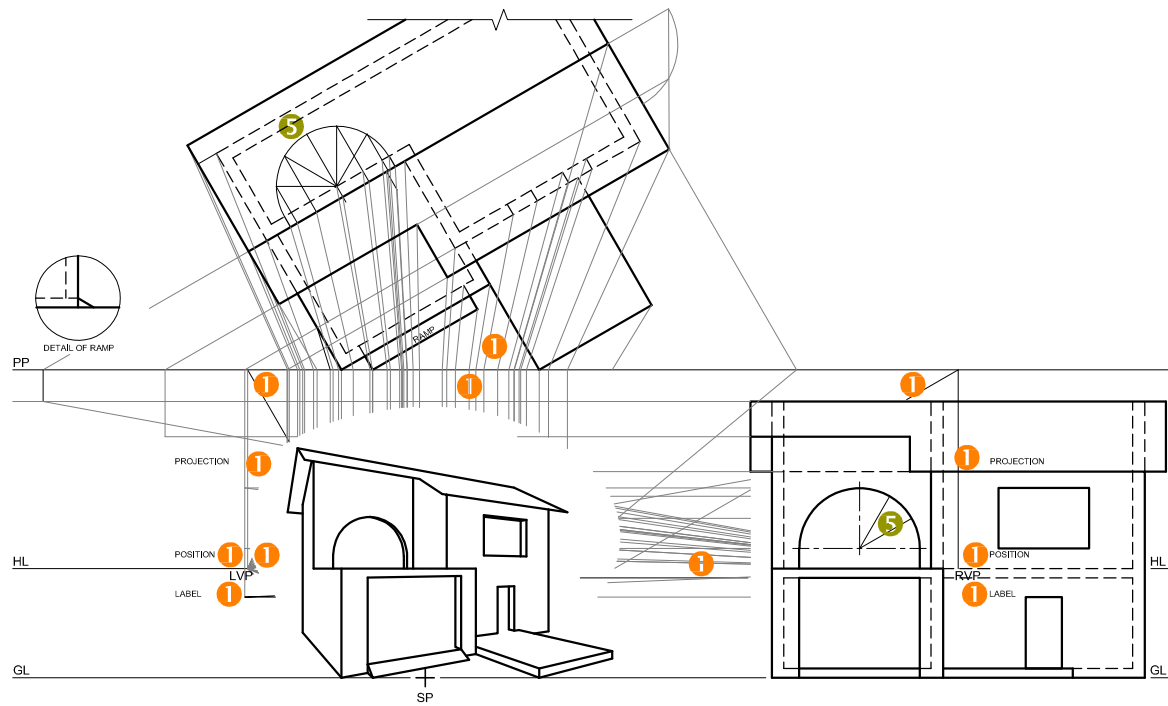






✓ 4 SIX EQUAL SPACES
✓ 4 BASE LINE

PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2019
MARKING GUIDELINES



ASSESSMENT CRITERIA		
1	CONSTRUCTION	6
2	WALLS	13
3	DOORS + WINDOWS	8 $\frac{1}{2}$
4	ROOF	4 $\frac{1}{2}$
5	ARCS	7
TOTAL		39

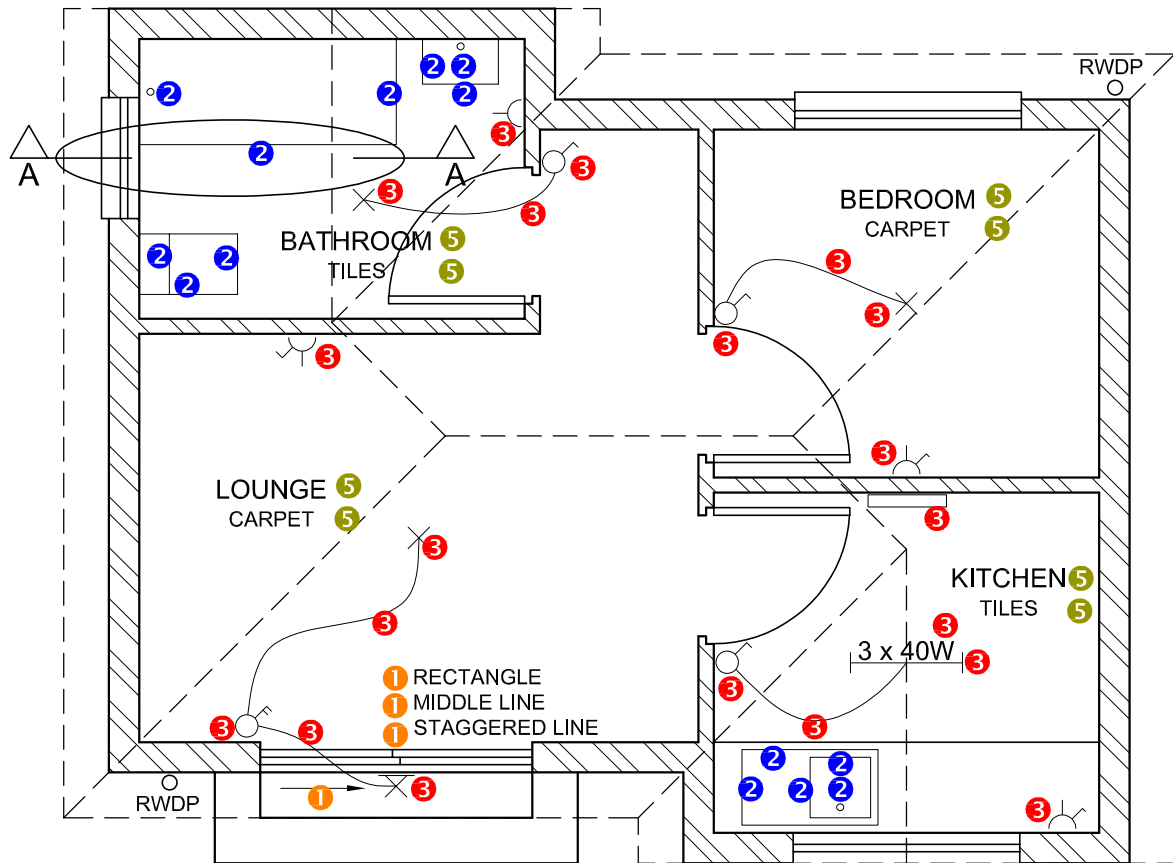
PAPER 1 QUESTION 3
GRADE 12
NOVEMBER 2019
MARKING GUIDELINE

FLOOR PLAN

1	DOORS + WINDOWS	11
2	FIXTURES	7
3	ELECTRICAL	10
4	HATCHING	3
5	LABELS	4
SUBTOTAL		35

4 HATCHING ALLOCATION

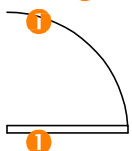
SANS COMPLIANT (TYPE)	1
HATCHING CORRECTLY APPLIED	2
TOTAL	3



FLOOR PLAN
SCALE 1 : 50



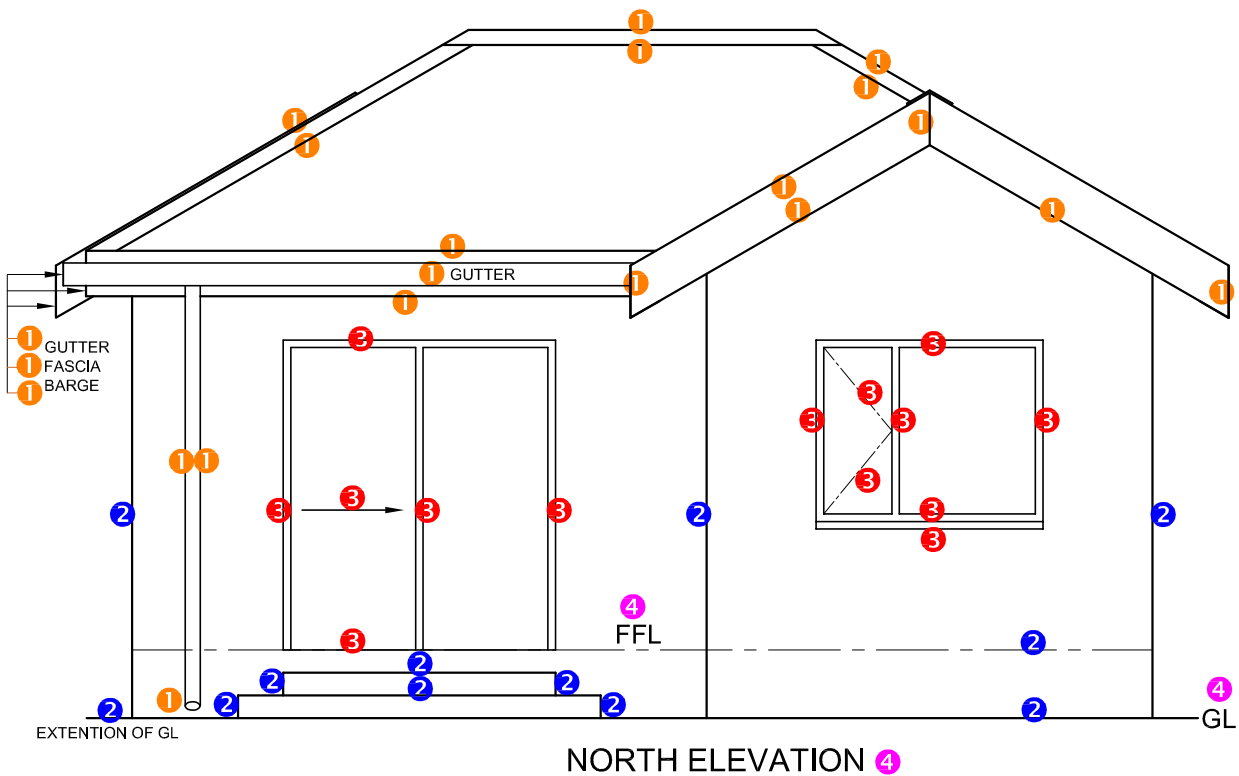
DETAIL OF MARK
ALLOCATION FOR A
WINDOW (2 x 3 windows = 6)



DETAIL OF MARK
ALLOCATION FOR A
DOOR (1 x 3 doors = 3)

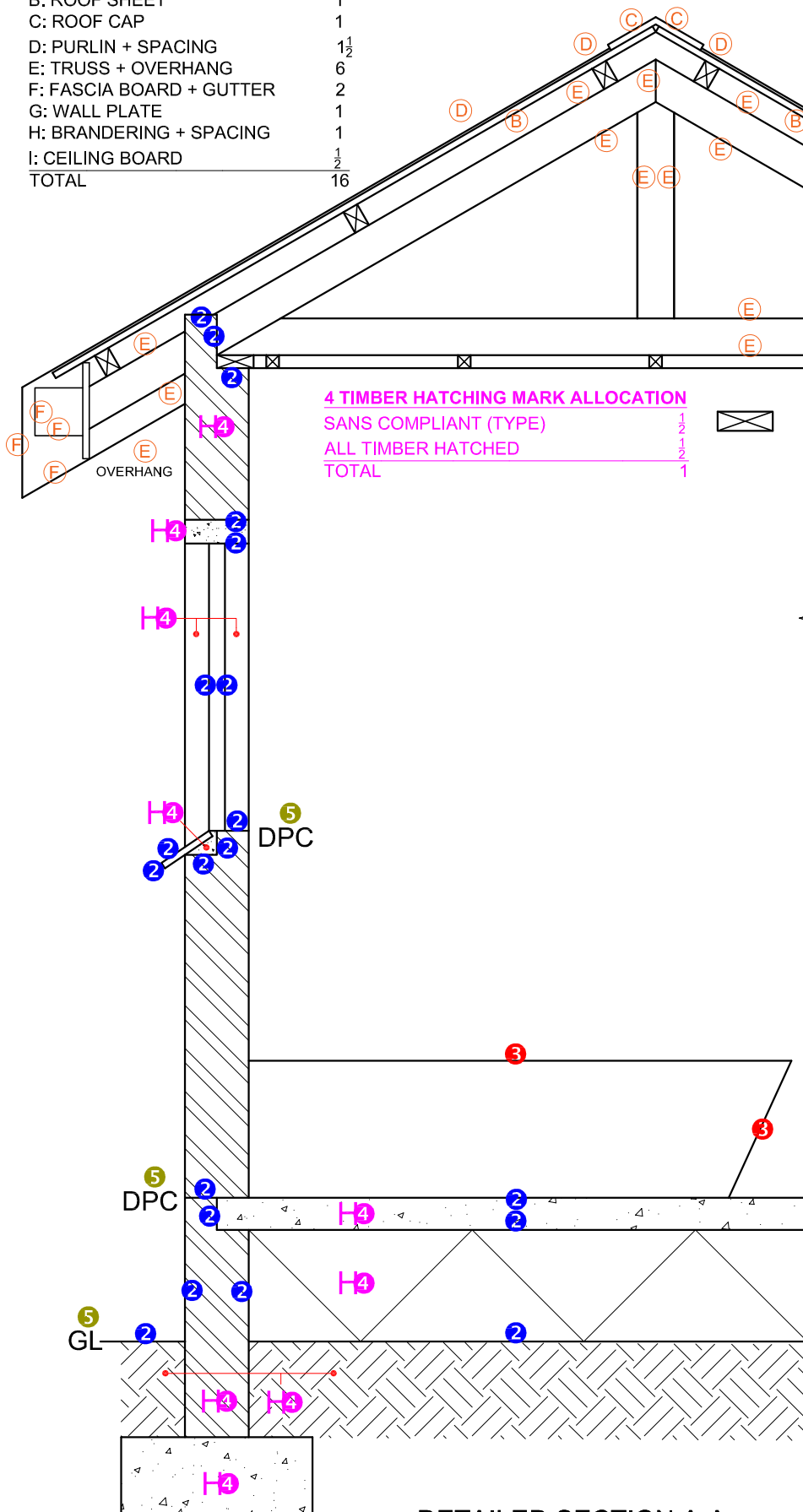
PAPER 1 QUESTION 4
GRADE 12
NSC 2019
MARKING GUIDELINES

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



1. MARK ALLOCATION FOR ROOF

A: ROOF ANGLE	1 + 1	2
B: ROOF SHEET		1
C: ROOF CAP		1
D: PURLIN + SPACING		1½
E: TRUSS + OVERHANG		6
F: FASCIA BOARD + GUTTER		2
G: WALL PLATE		1
H: BRANDERING + SPACING		1
I: CEILING BOARD		½
TOTAL		16

**DETAILED SECTION**

1	ROOF DETAIL	16
2	FOUNDATION + WALL + WINDOW	10
3	BATH	1
4	HATCHING	5½
5	LABELS	1½
SUBTOTAL		34

DETAILED SECTION A-A
SCALE 1 : 20

PAPER 1 QUESTION 4
GRADE 12
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