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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

ENGINEERING GRAPHICS AND DESIGN P1

MAY/JUNE 2024

MARKING GUIDELINES

MARKS: 100

DEPARTMENT OF BASIC EDUCATION
PRIVATE BAG X695, PRETORIA 0001
2024 -05 -14
APPROVED MARKING GUIDELINE
PUBLIC EXAMINATION

These marking guidelines consist of 8 pages.

AB [Signature] [Signature] [Signature]

ANSWERS		
1	CHECKED	1
2	1 : 500	1
3	08/05/2023	1
4	CONTRACTORS	1
5	6	1
6	2	1
7	INSPECTION EYE	1
8	<u>CLIFF</u> FACE	1
9	SHRUBBERY	1
10	BUILDING LINE	1
11	MUNICIPAL <u>WATER SUPPLY</u>	1
12	1,8	1
13	100	1
14	<u>DIRECTION</u> OF <u>FLOW</u>	1
15	WATER METER	1
16	10	2
17	GREEN	1
18	SSW / SOUTH SOUTH WEST / SOUTH WEST / SW	2
19	See below	3
20		3
21		4
TOTAL		30

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ANSWER 19

Show ALL calculations.

APPLYING CORRECT FORMULA ✓

$$S = P - (S + S + S + S)$$

$$= 173,56 - (48,04 + 47,96 + 25,95 + 34,58)$$

$$= 17,03 \quad \checkmark \quad \checkmark$$

ANSWER 20

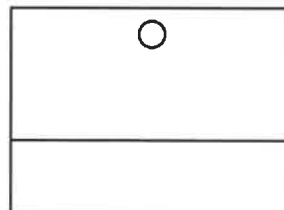
Show ALL calculations.

APPLYING CORRECT FORMULA ✓

$$A = (L \times B) + (L \times B) + \dots$$

$$= (30 \times 13) + (5 \times 10) + (21 \times 10.5) + (9 \times 2)$$

$$= 678,5 \text{ m}^2 \quad \checkmark \quad \checkmark$$

ANSWER 21

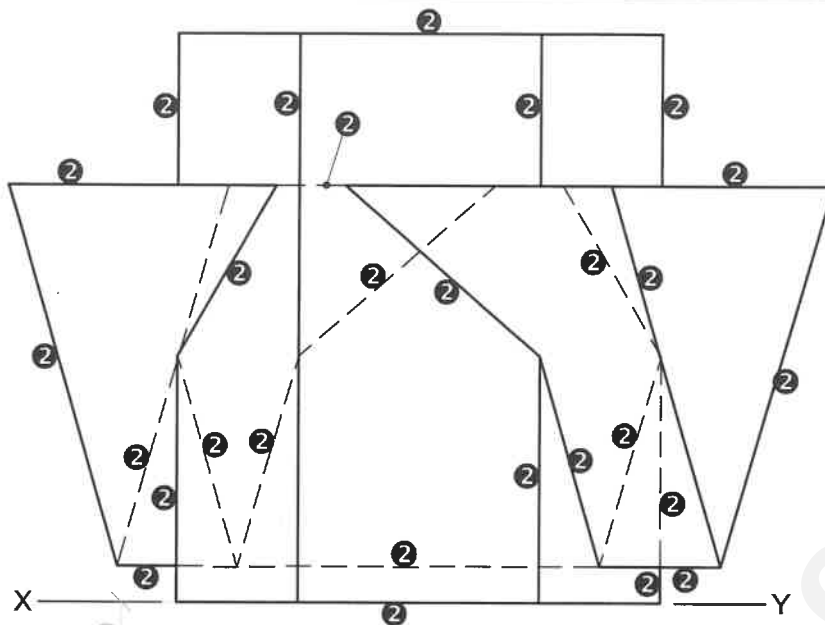
FREEHAND ①

RECTANGLE ✓1

TOP
RECTANGLE ✓1BOTTOM
RECTANGLE ✓1

CIRCLE ①

PAPER 1 QUESTION 1
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES



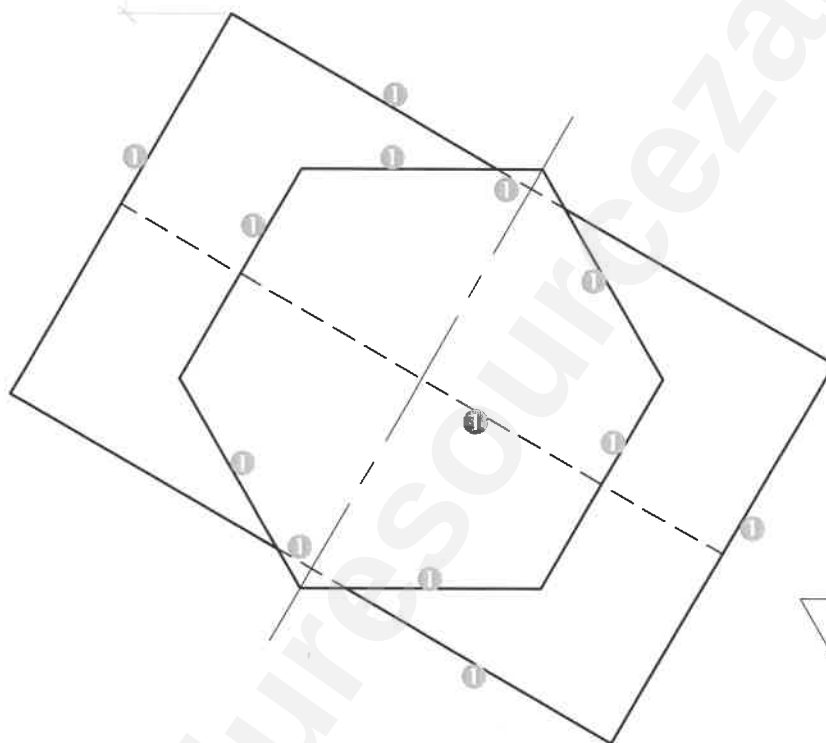
AB

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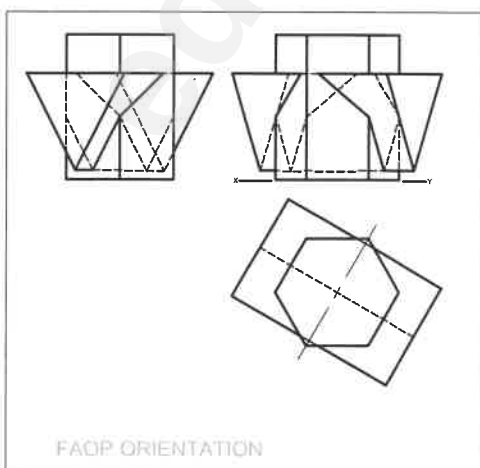
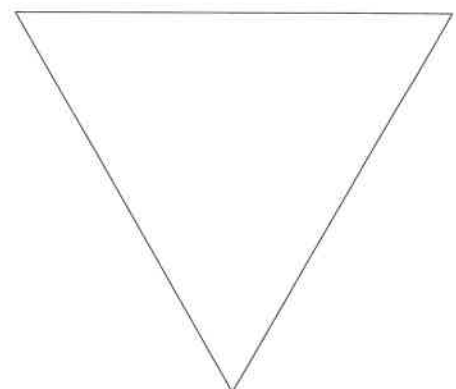
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1. CONSTRUCTION
30° ANGLE 1
SHAPE OF HEXAGON 1
SHAPE OF TRIANGLE 1
TOTAL 3



FAOP ORIENTATION

ASSESSMENT CRITERIA

1	TOP VIEW	10
2	FRONT VIEW	14
TOTAL		24

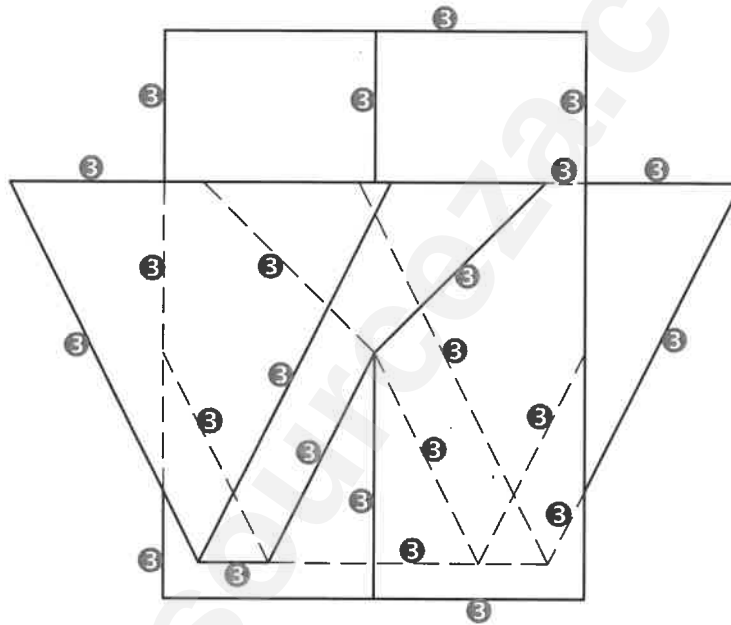
PAPER 1 QUESTION 2
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES

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AB → → →

ASSESSMENT CRITERIA

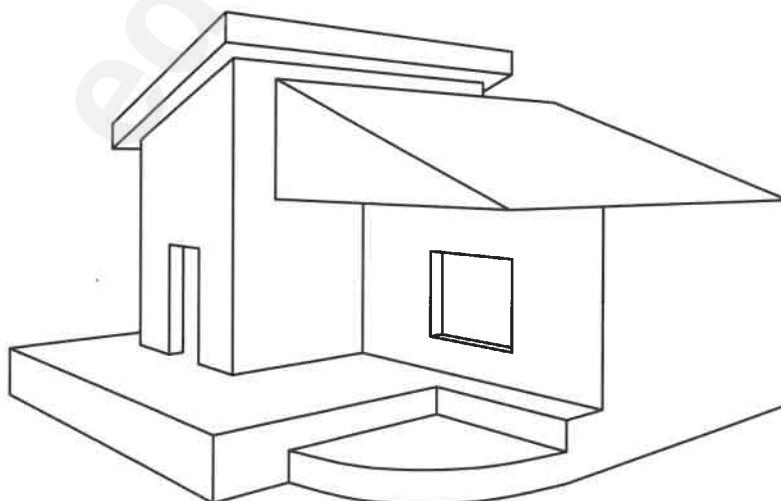
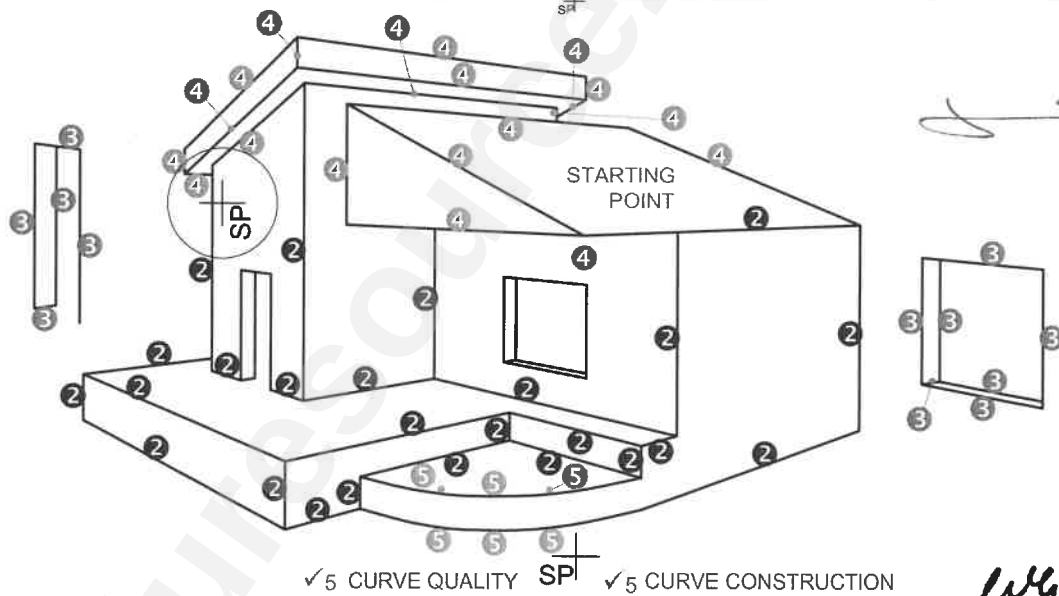
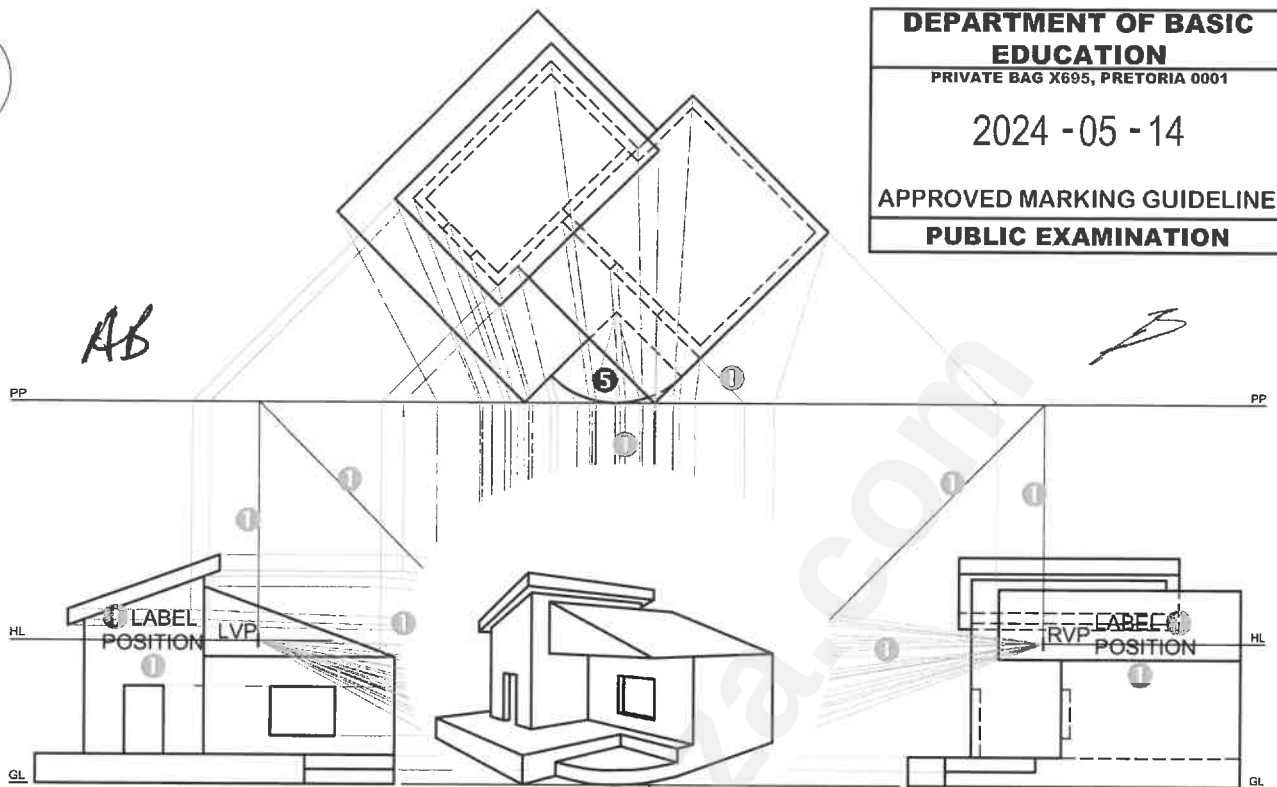
3	RIGHT VIEW	12
TOTAL		12

PAPER 1 QUESTION 2
GRADE 12
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ASSESSMENT CRITERIA

1	CONSTRUCTION	6
2	WALL + BASE + STAIRS	12 $\frac{1}{2}$
3	WINDOW + DOOR	6
4	ROOF	9
5	ARC	5 $\frac{1}{2}$
TOTAL		39

PAPER 1 QUESTION 3
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES

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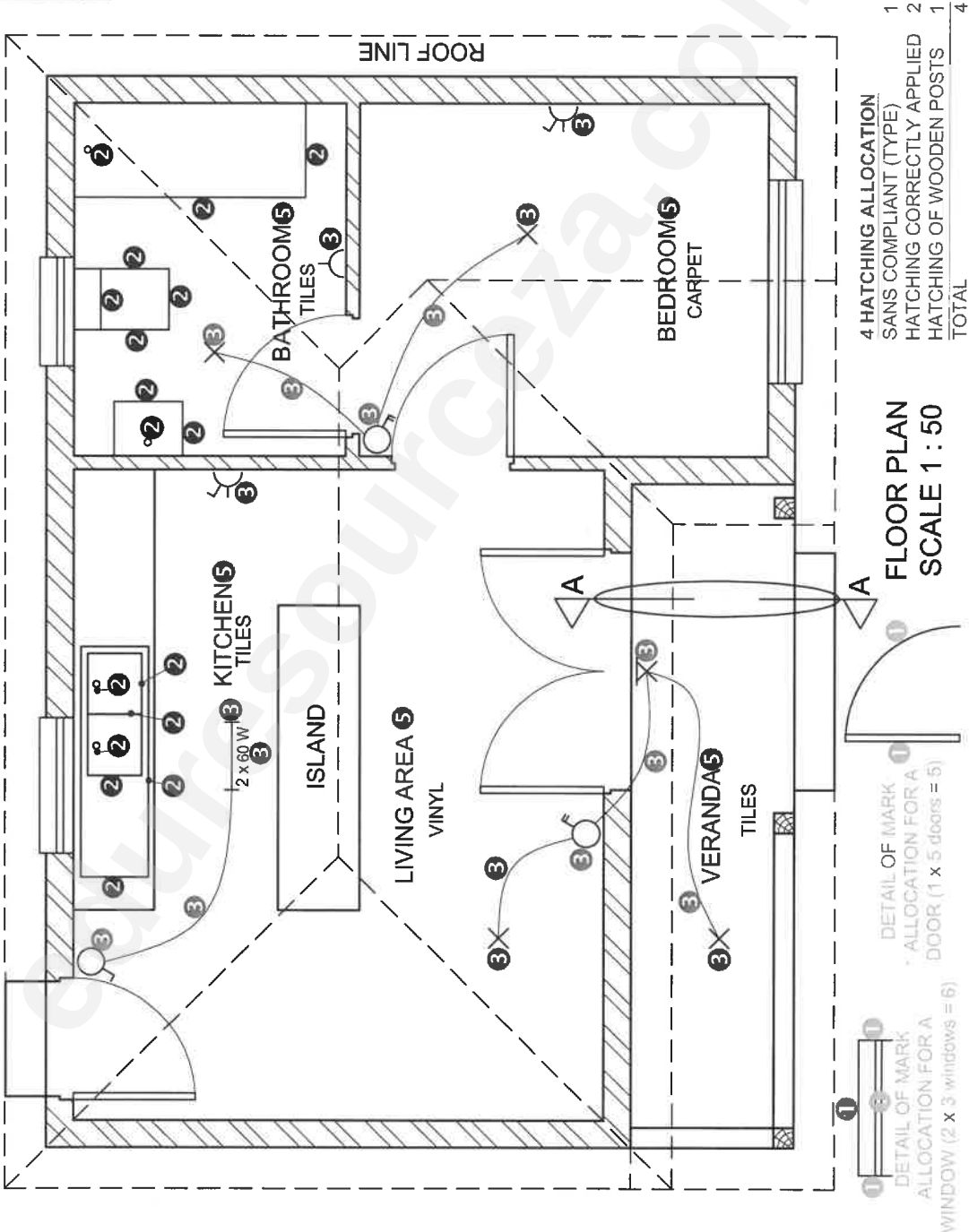
2

2

ASSESSMENT CRITERIA	
FLOOR PLAN	
1	DOORS + WINDOWS 11
2	FIXTURES $8\frac{1}{2}$
3	ELECTRICAL $9\frac{1}{2}$
4	HATCHING 4
5	LABELS $2\frac{1}{2}$
SUBTOTAL 35 $\frac{1}{2}$	

PAPER 1 QUESTION 4
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES

my



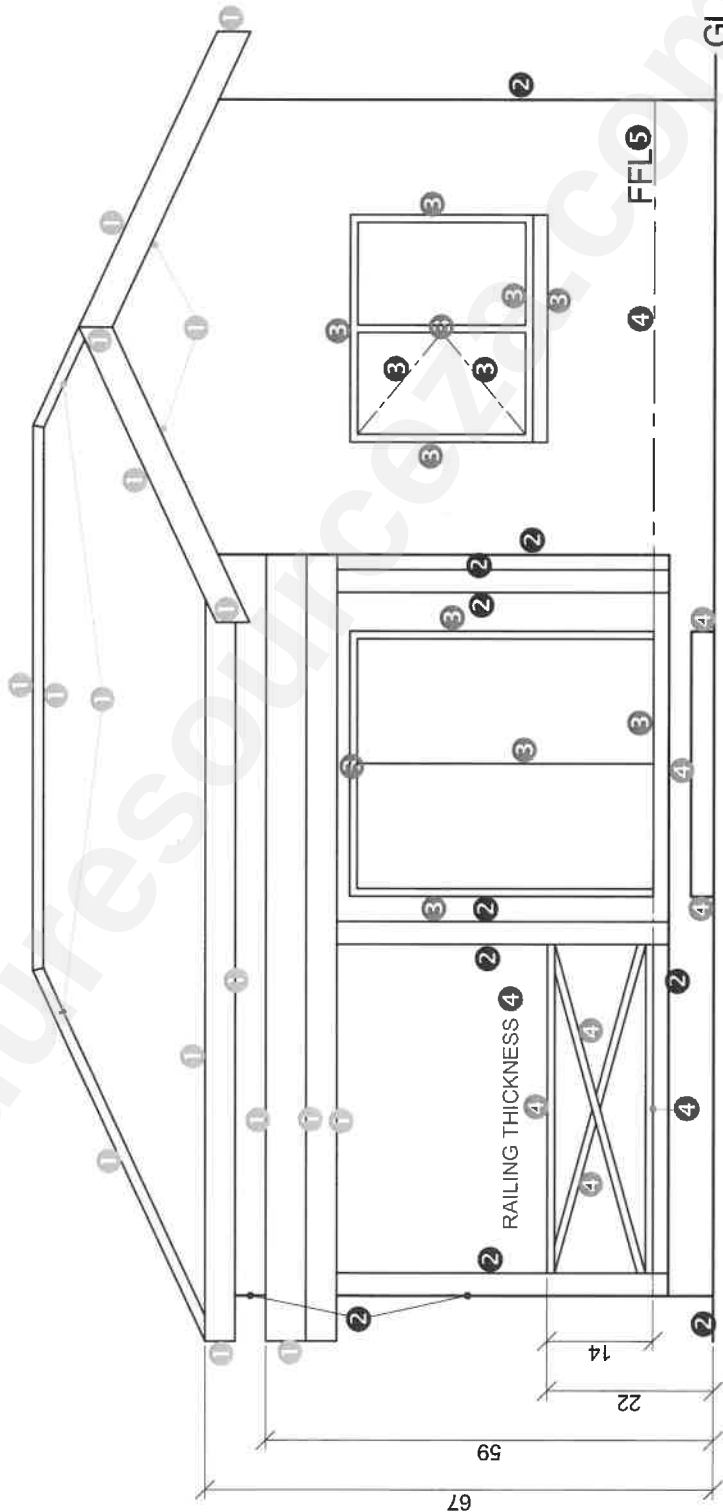
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ASSESSMENT CRITERIA	
WEST ELEVATION	
1	ROOF + LEAN-TO 8 1/2
2	WALLS + POSTS + VERANDA 5
3	DOORS + WINDOW 6 1/2
4	STEP + FFL + RAILING 4 1/2
5	LABELS 1 1/2
SUBTOTAL	
25	

PAPER 1 QUESTION 4
GRADE 12
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MARKING GUIDELINES

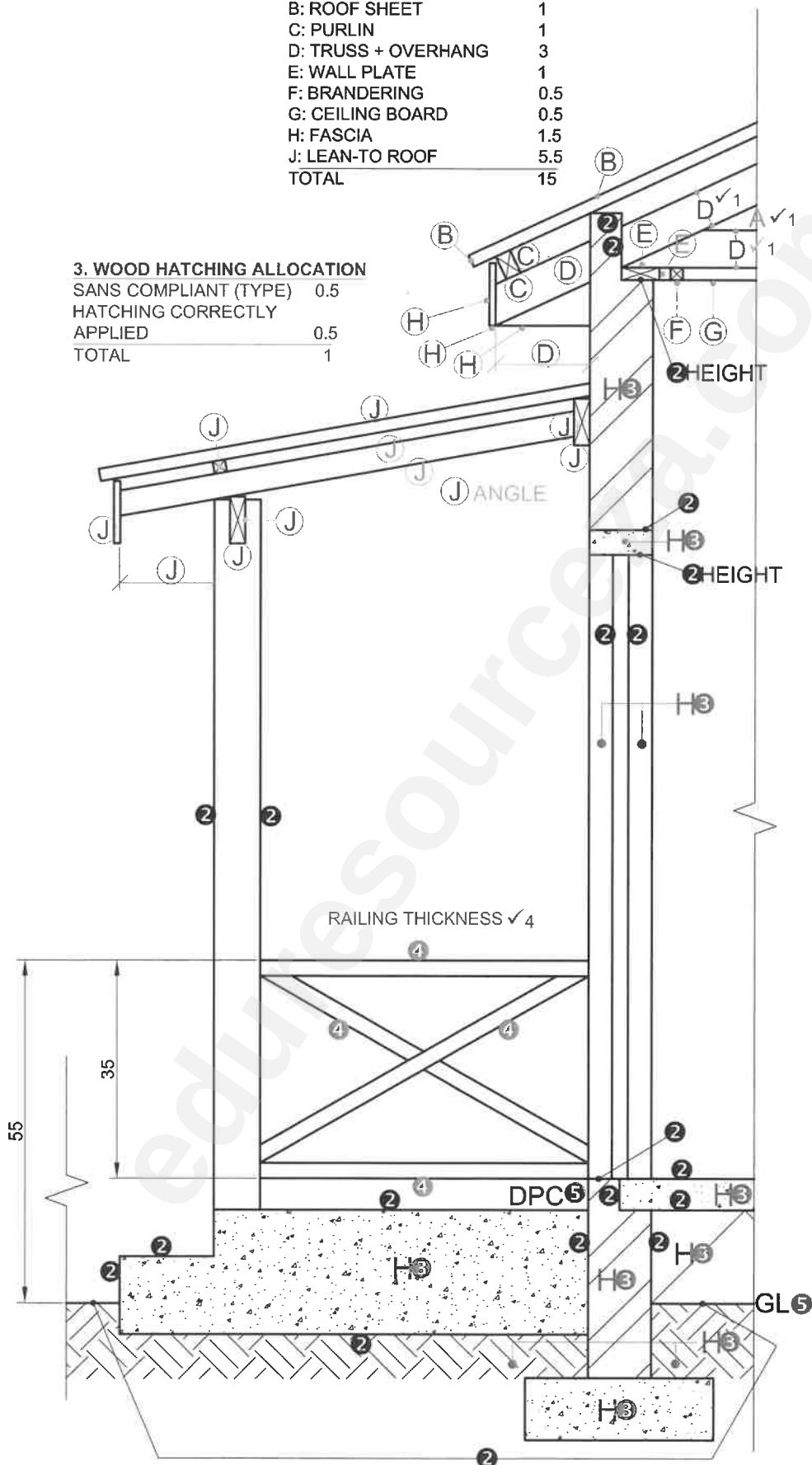
AB B S Wg

1. MARK ALLOCATION FOR ROOF

A: ROOF ANGLE	1
B: ROOF SHEET	1
C: PURLIN	1
D: TRUSS + OVERHANG	3
E: WALL PLATE	1
F: BRANDING	0.5
G: CEILING BOARD	0.5
H: FASCIA	1.5
J: LEAN-TO ROOF	5.5
TOTAL	15

3. WOOD HATCHING ALLOCATION

SANS COMPLIANT (TYPE)	0.5
HATCHING CORRECTLY APPLIED	0.5
TOTAL	1



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ASSESSMENT CRITERIA		
DETAILED SECTION		
1	ROOF DETAIL	15
2	SLAB + WALL + STEPS + B/L	10
3	HATCHING	5 $\frac{1}{2}$
4	RAILING	3
5	LABELS	1
SUBTOTAL		34 $\frac{1}{2}$

PAPER 1 QUESTION 4
GRADE 12
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MARKING GUIDELINES