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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.

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	CLIFF FACE	1
9	SHRUBBERY	1
10	BUILDING LINE	1
11	MUNICIPAL WATER SUPPLY	1
12	1,8	1
13	100	1
14	DIRECTION OF FLOW	1
15	WATER METER	1
16	10	2
17	GREEN	1
18	SSW / SOUTH SOUTH WEST / SOUTH WEST / SW	2
19		3
20	See below	3
21		4
TOTAL		30

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ANSWER 19
Show ALL calculations.

APPLYING CORRECT FORMULA ✓

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

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

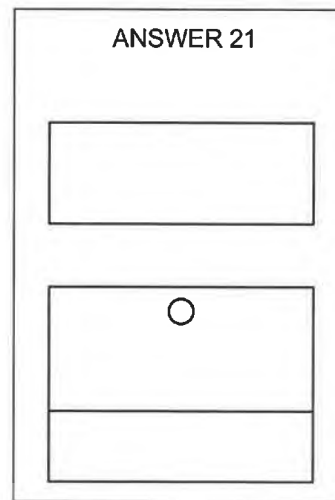
$$= 17,03 \quad \checkmark \quad \checkmark$$

ANSWER 20
Show ALL calculations.

APPLYING CORRECT FORMULA ✓

$$A = (LxB)+(LxB)+...$$

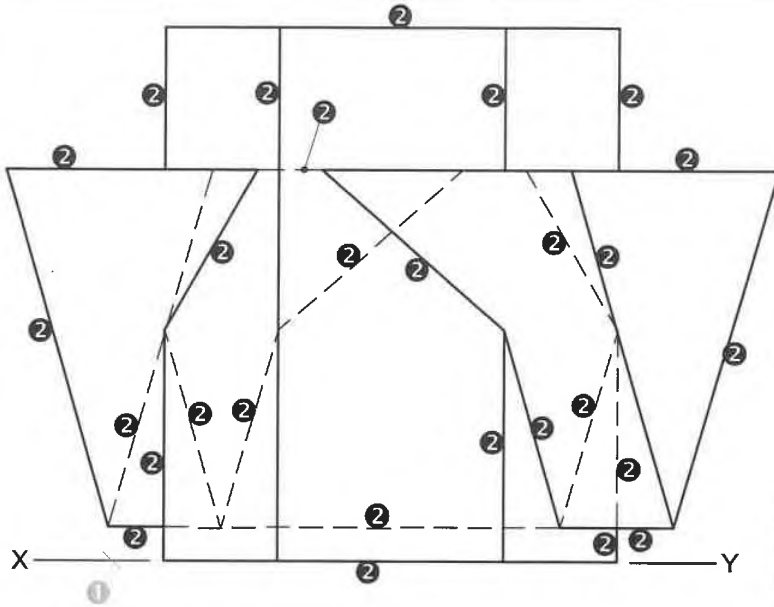
$$= (30 \times 13) + (5 \times 10) + (21 \times 10.5) + (9 \times 2)$$

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


- FREEHAND
- RECTANGLE
- TOP RECTANGLE
- BOTTOM RECTANGLE
- CIRCLE

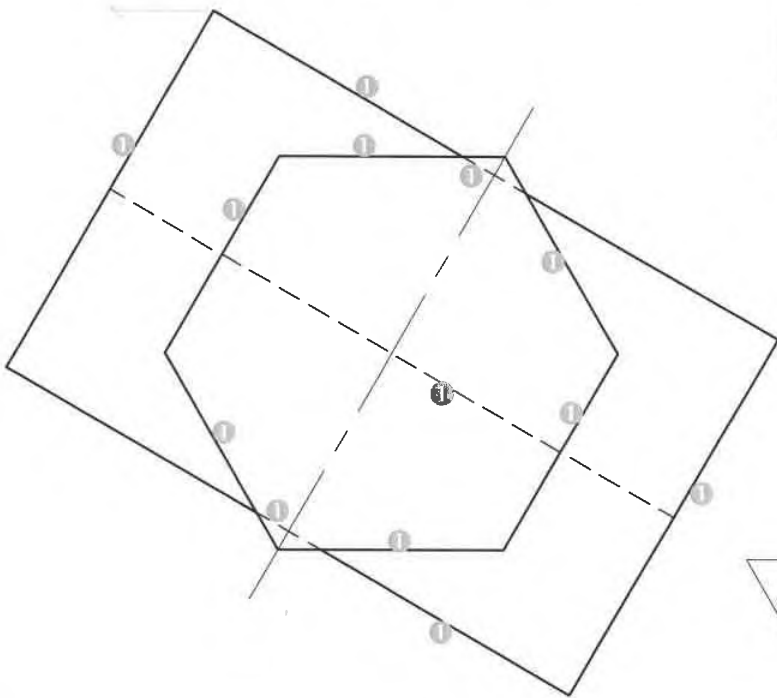
PAPER 1 QUESTION 1
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES





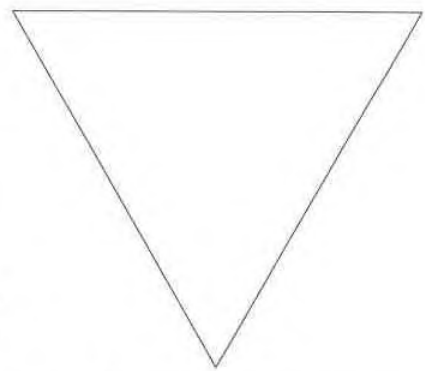
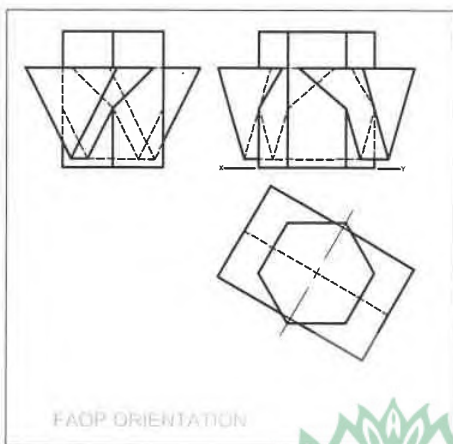
AB

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1. CONSTRUCTION

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

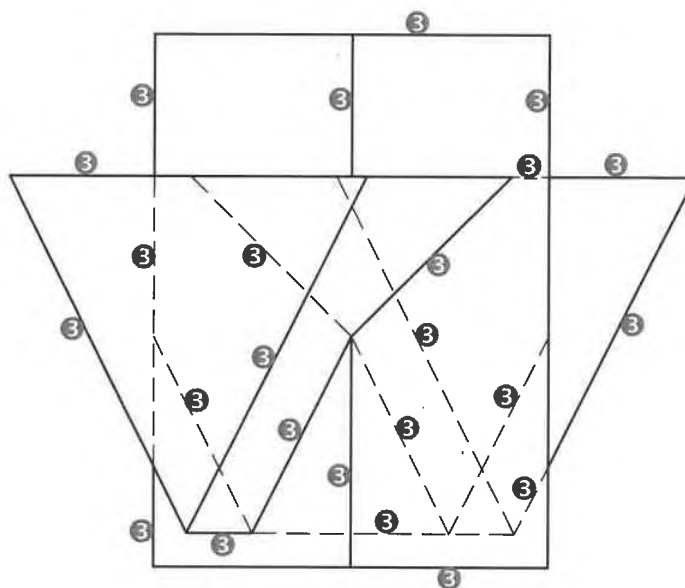



ASSESSMENT CRITERIA		
1	TOP VIEW	10
2	FRONT VIEW	14
TOTAL		24

PAPER 1 QUESTION 2
 GRADE 12
 DBE MAY/JUNE 2024
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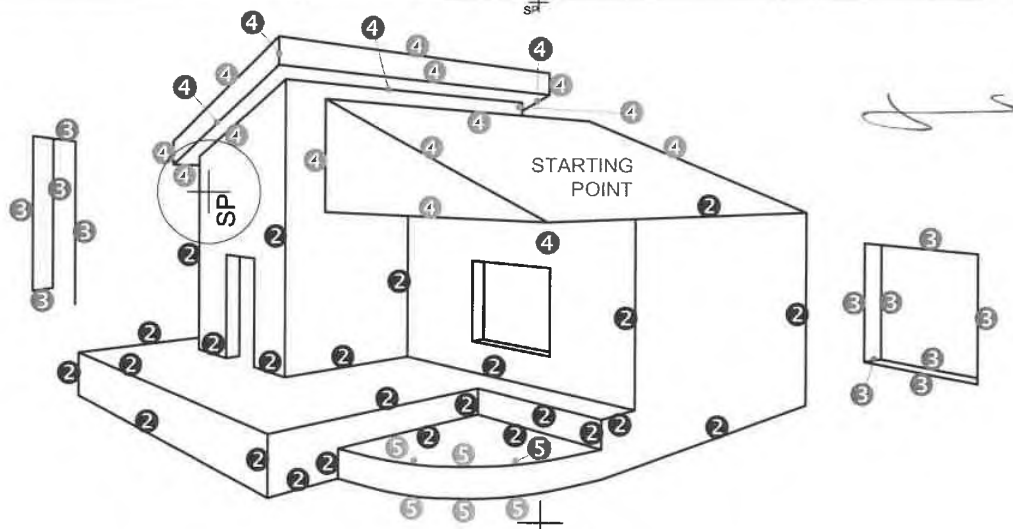
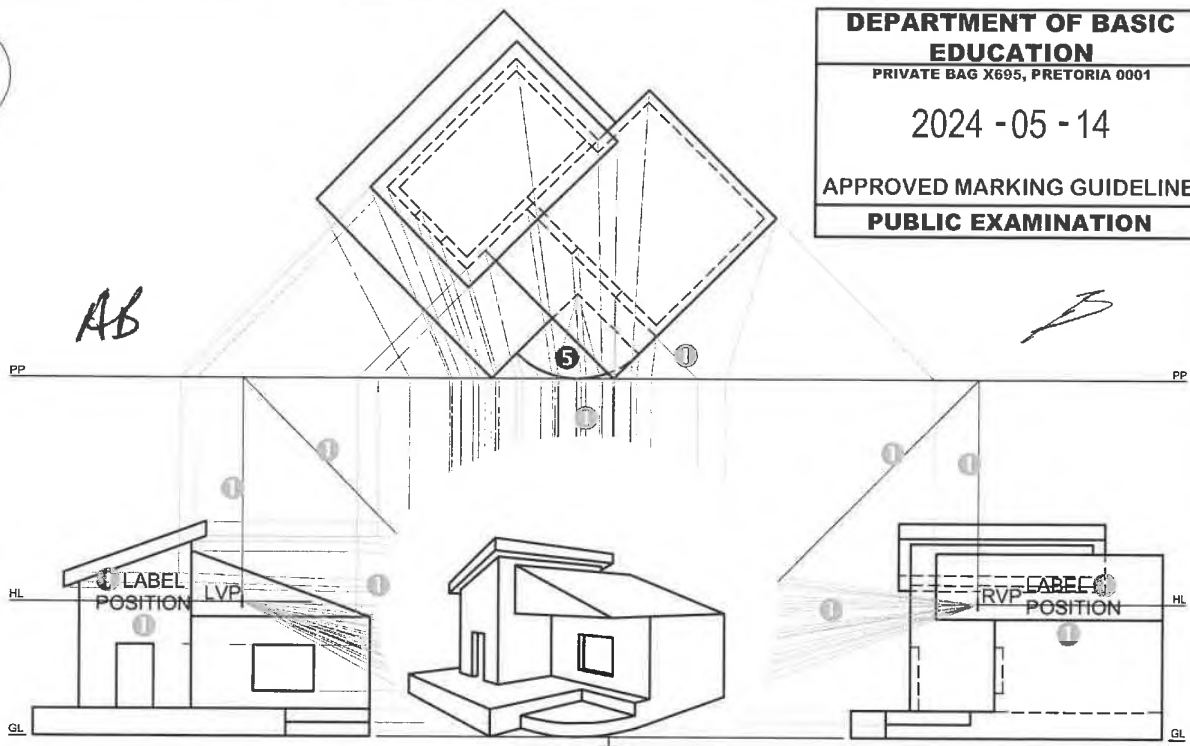
AB → ← →

ASSESSMENT CRITERIA		
3	RIGHT VIEW	12
TOTAL		12

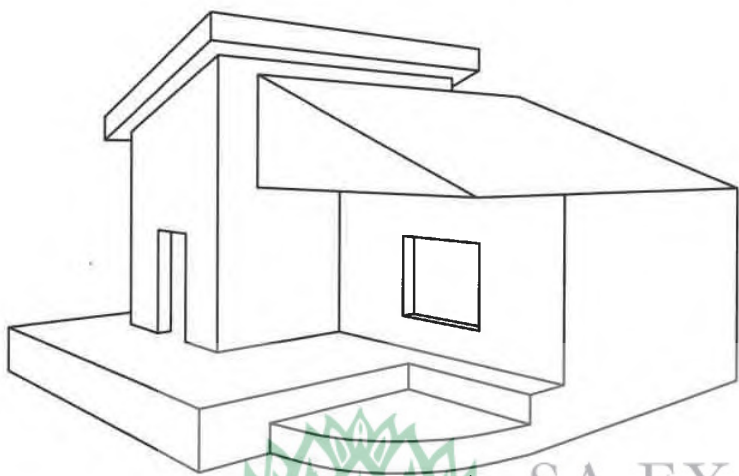
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✓5 CURVE QUALITY SP ✓5 CURVE CONSTRUCTION



ASSESSMENT CRITERIA		
1	CONSTRUCTION	6
2	WALL + BASE + STAIRS	12 1/2
3	WINDOW + DOOR	6
4	ROOF	9
5	ARC	5 1/2
TOTAL		39

PAPER 1 QUESTION 3
 GRADE 12
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 MARKING GUIDELINES



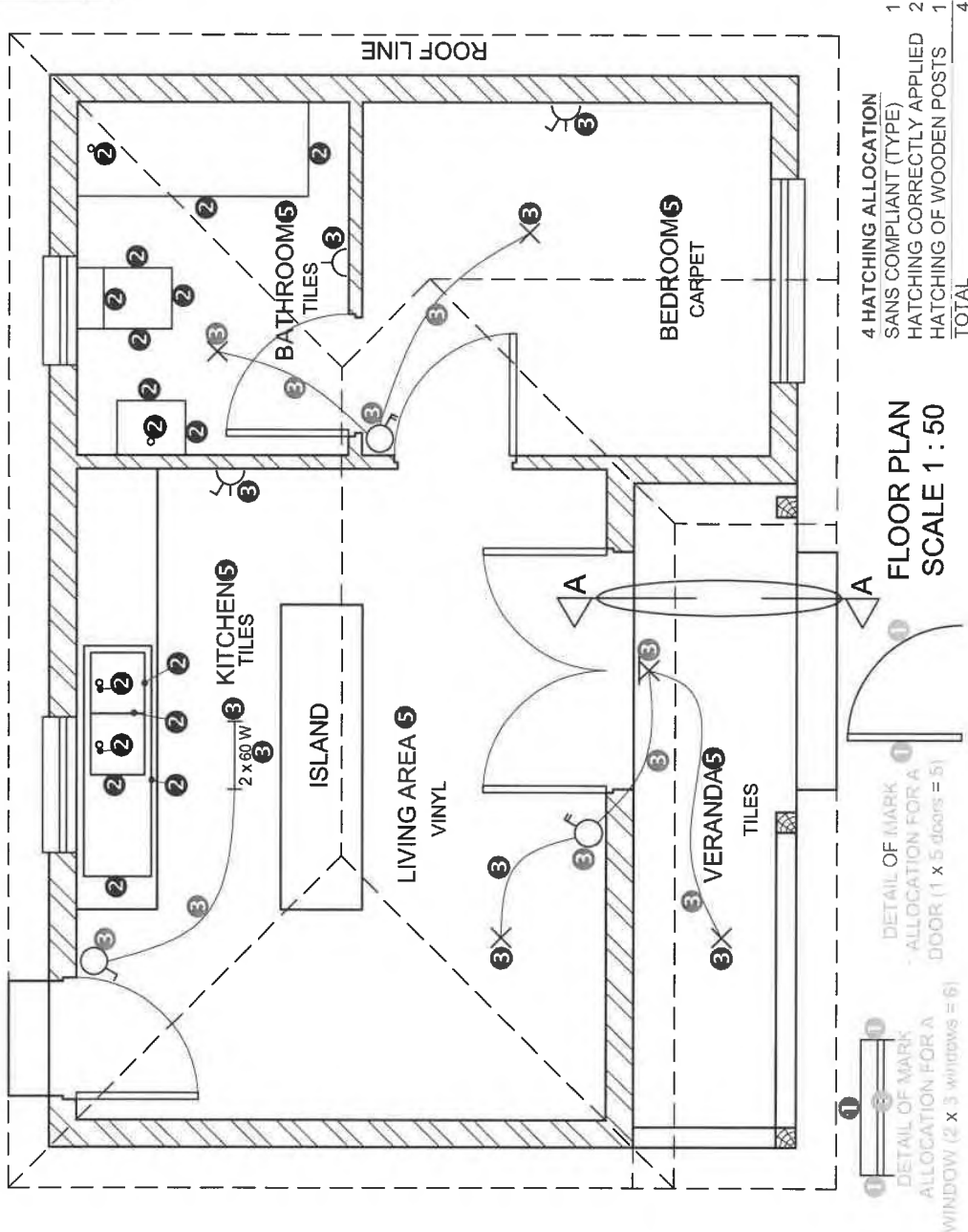
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AB
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ASSESSMENT CRITERIA	
FLOOR PLAN	
1	DOORS + WINDOWS 11
2	FIXTURES 8 ½
3	ELECTRICAL 9 ½
4	HATCHING 4
5	LABELS 2 ½
SUBTOTAL 35 ½	

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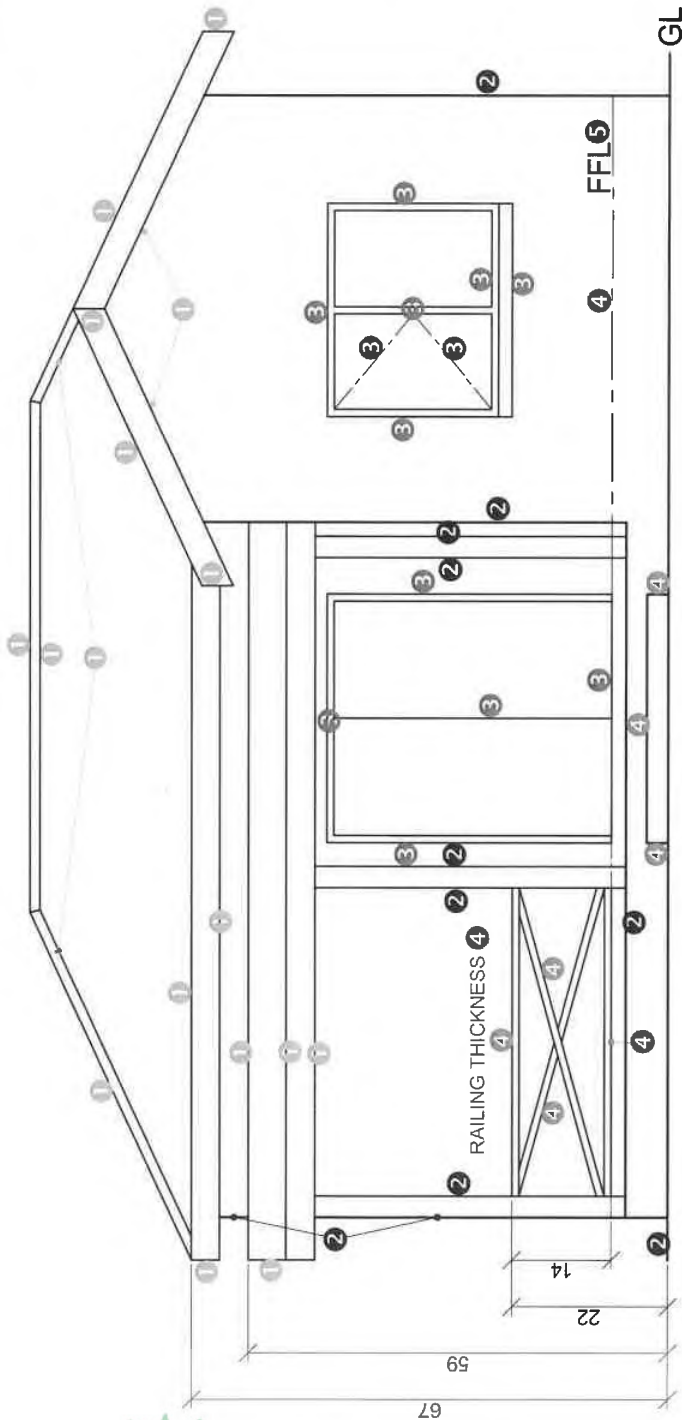
PAPER 1 QUESTION 4
 GRADE 12
 DBE MAY/JUNE 2024
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ASSESSMENT CRITERIA	
WEST ELEVATION	
1	ROOF + LEAN-TO 8 ½
2	WALLS + POSTS + VERANDA 5
3	DOORS + WINDOW 6 ½
4	STEP + FFL + RAILING 4 ½
5	LABELS 1 ½
SUBTOTAL 25	

PAPER 1 QUESTION 4
 GRADE 12
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WEST ELEVATION

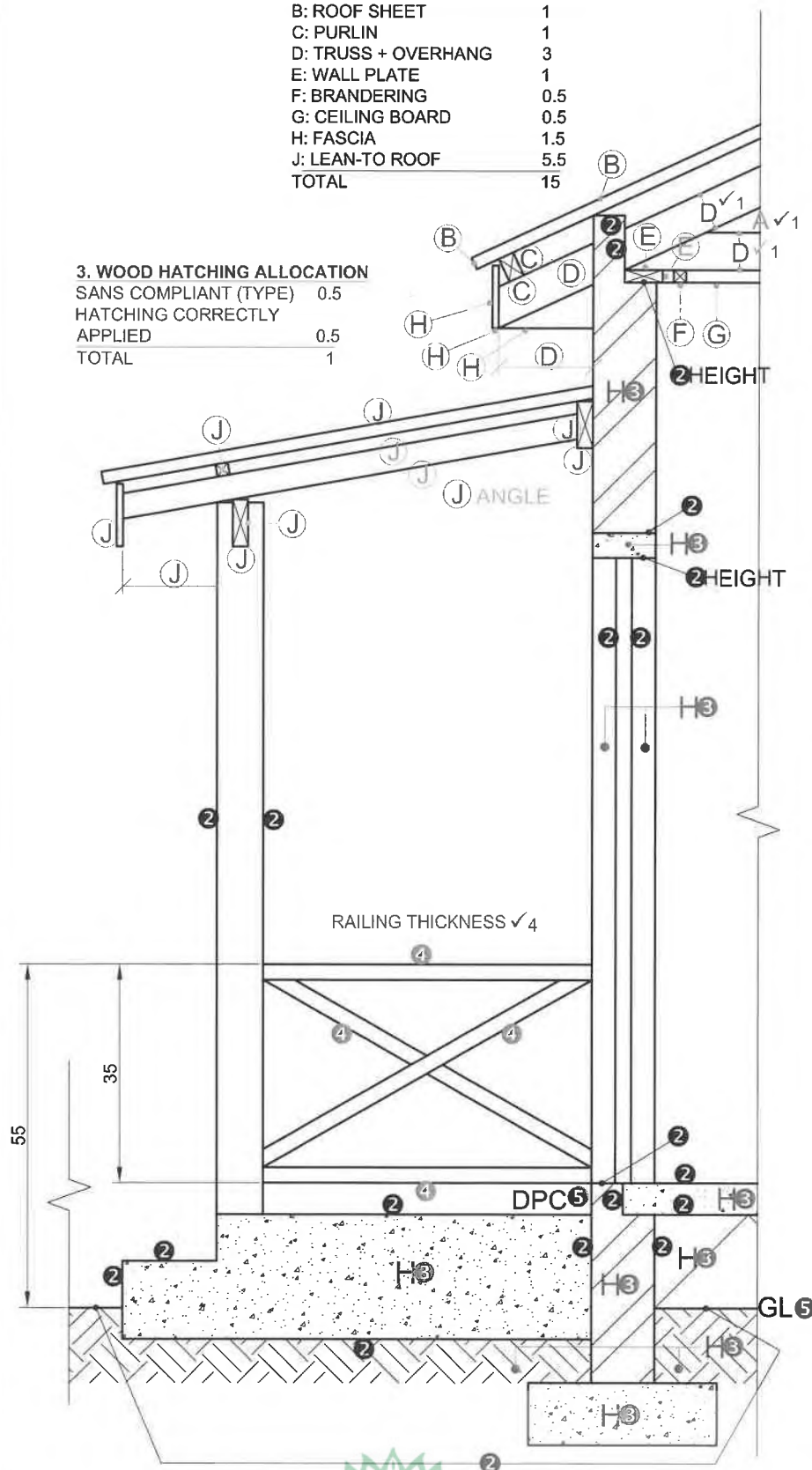


1. MARK ALLOCATION FOR ROOF

A: ROOF ANGLE	1
B: ROOF SHEET	1
C: PURLIN	1
D: TRUSS + OVERHANG	3
E: WALL PLATE	1
F: BRANDERING	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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Handwritten marks:
 AB
 2 HEIGHT
 3
 4

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

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

