



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NASIONALE SENIOR SERTIFIKAAT

GRAAD 12

INGENIEURSGRAFIKA EN -ONTWERP V1

NOVEMBER 2023

NASIENRIGLYNE

PUNTE: 100

**DEPARTMENT OF BASIC
EDUCATION**

PRIVATE BAG X695, PRETORIA 0001

2023 - 11 - 11

APPROVED MARKING GUIDELINE

PUBLIC EXAMINATION

Hierdie nasienriglyne bestaan uit 8 bladsye.

AB [Signature] [Signature] [Signature] [Signature]

ANTWOORDE

1	acearc@africa.com / ACEARG@AFRIKA.COM	1
2	1 : 450	1
3	30/01/2023	1
4	KWALITEITSTRAAT	1
5	351	1
6	<u>BAKSTEENPLAVEISEL</u>	1
7	3	1
8	<u>SPOEDHOBBEL</u>	1
9	1 : 40	1
10	2500	1
11	RIOOLPUT / RIOOL	1
12	IMMERGROEN <u>BOOM</u>	1
13	AANGRENSENDE GEBOU / STRUKTUUR	1
14	<u>BESTAANDE</u> RIOOLLYN	1
15	0,15	1
16	ROOI	1
17	SUID-OOS / OOS-SUID-OOS / OSO	2
18	1800	2
19	Sien hieronder	3
20		3
21		4
TOTAAL		30

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ANTWOORD 19

Toon ALLE berekenings.

TOEPASSING VAN KORREKTE FORMULE ✓

$$O = AB + BC + CD + DE + EA$$

$$= 40 + 48 + 23,34 + 7,5 + 44,56$$

$$= 163,4 \quad \text{✓} \quad \text{ANTWOORD IN METER ✓}$$

ANTWOORD 20

Toon ALLE berekenings.

TOEPASSING VAN KORREKTE FORMULE ✓

$$A = (10 \times 9,2) + (7,4 \times 4) + (6,2 \times 3,2)$$

$$= 92 + 29,6 + 19,84$$

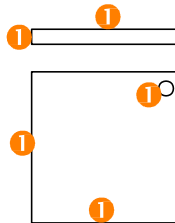
$$= 141,44 \quad \text{✓} \quad \text{ANTWOORD IN VIERKANTE METER ✓}$$

ANTWOORD 21

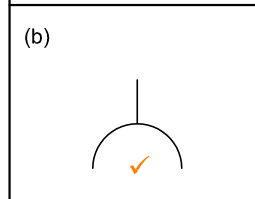
NIE EHOOP

(a)

$$= -\frac{1}{2}$$

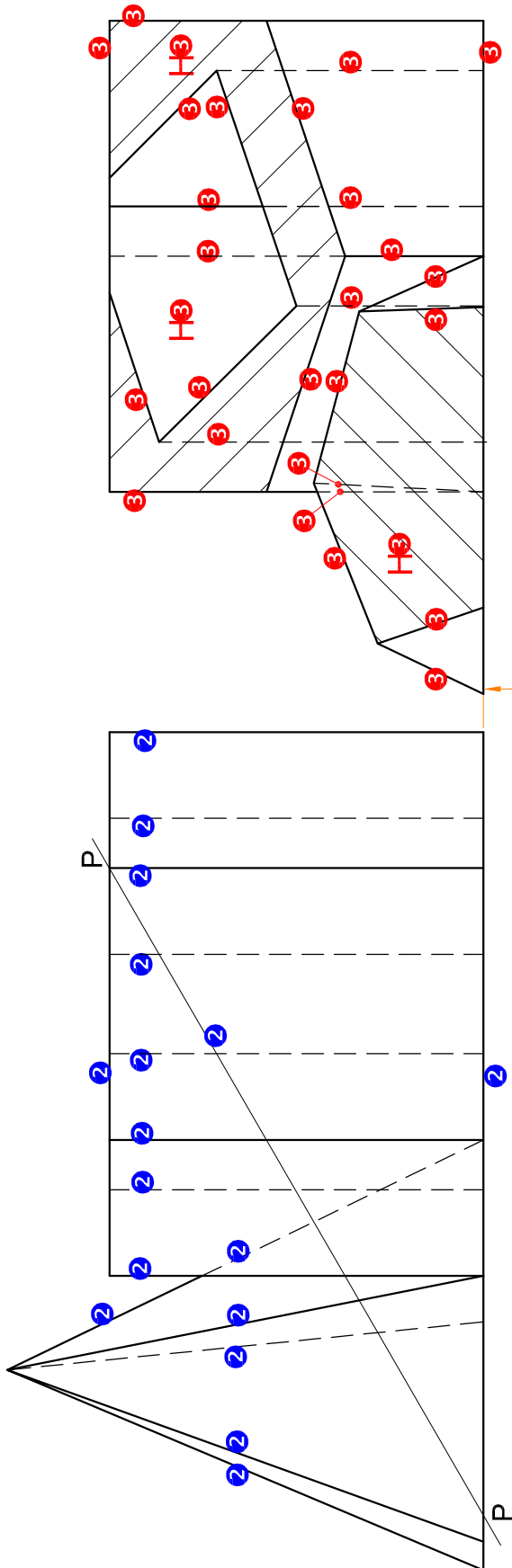


(b)



1 VRYHAND

VRAESTEL 1 VRAAG 1
GRAAD 12
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ASSESSERINGSKRITERIA	
1	DEURSNEE-BOAANSIG 15 $\frac{1}{2}$
2	VOORAANSIG 8 $\frac{1}{2}$
3	DEURSNEE-LINKERAANSIG 14
TOTAAL 38	

VRAESTEL 1 VRAAG 2
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✓

70

<u>VIERKANT:</u>	
PLASING	0.5
ROTASIE	0.5

VYFHOEK: _____
GEKONSTRUEER VANAF
SESKANTIGE BASISRAND 0.5

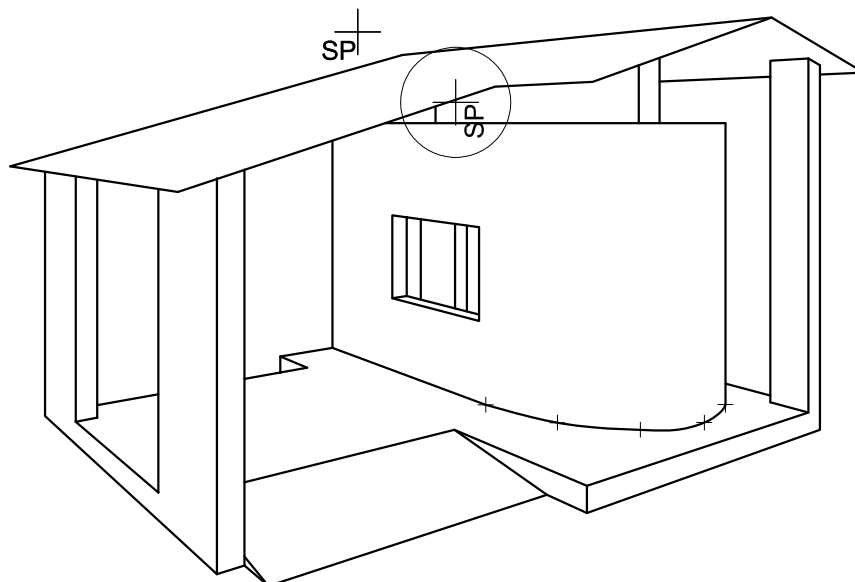
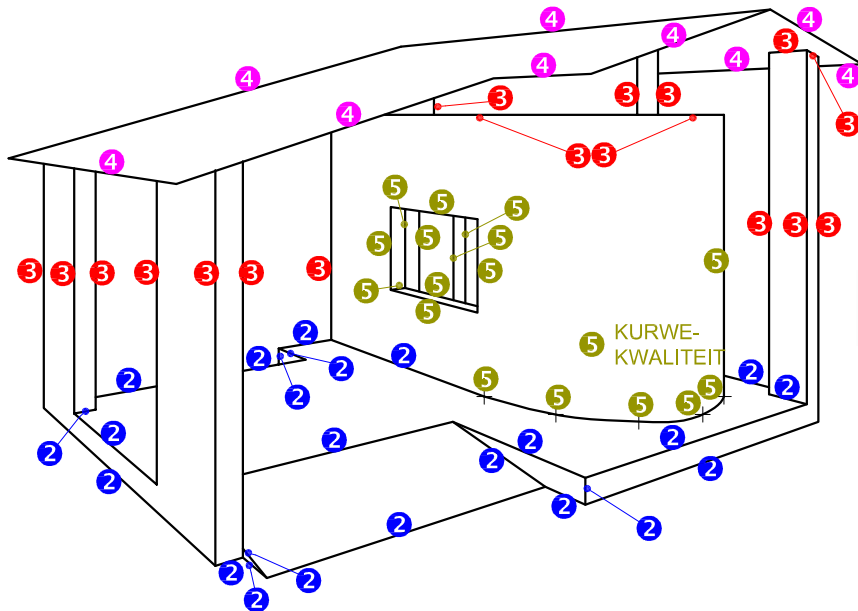
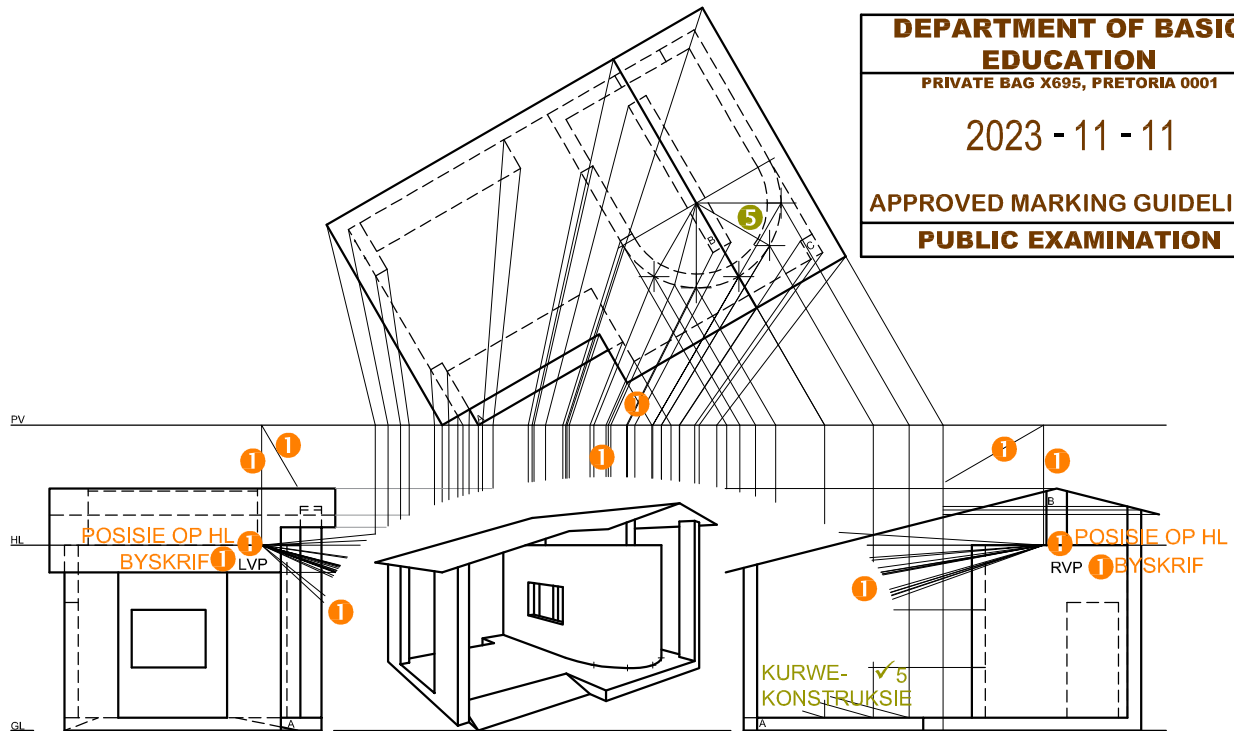
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ASSESSERINGSKRITERIA

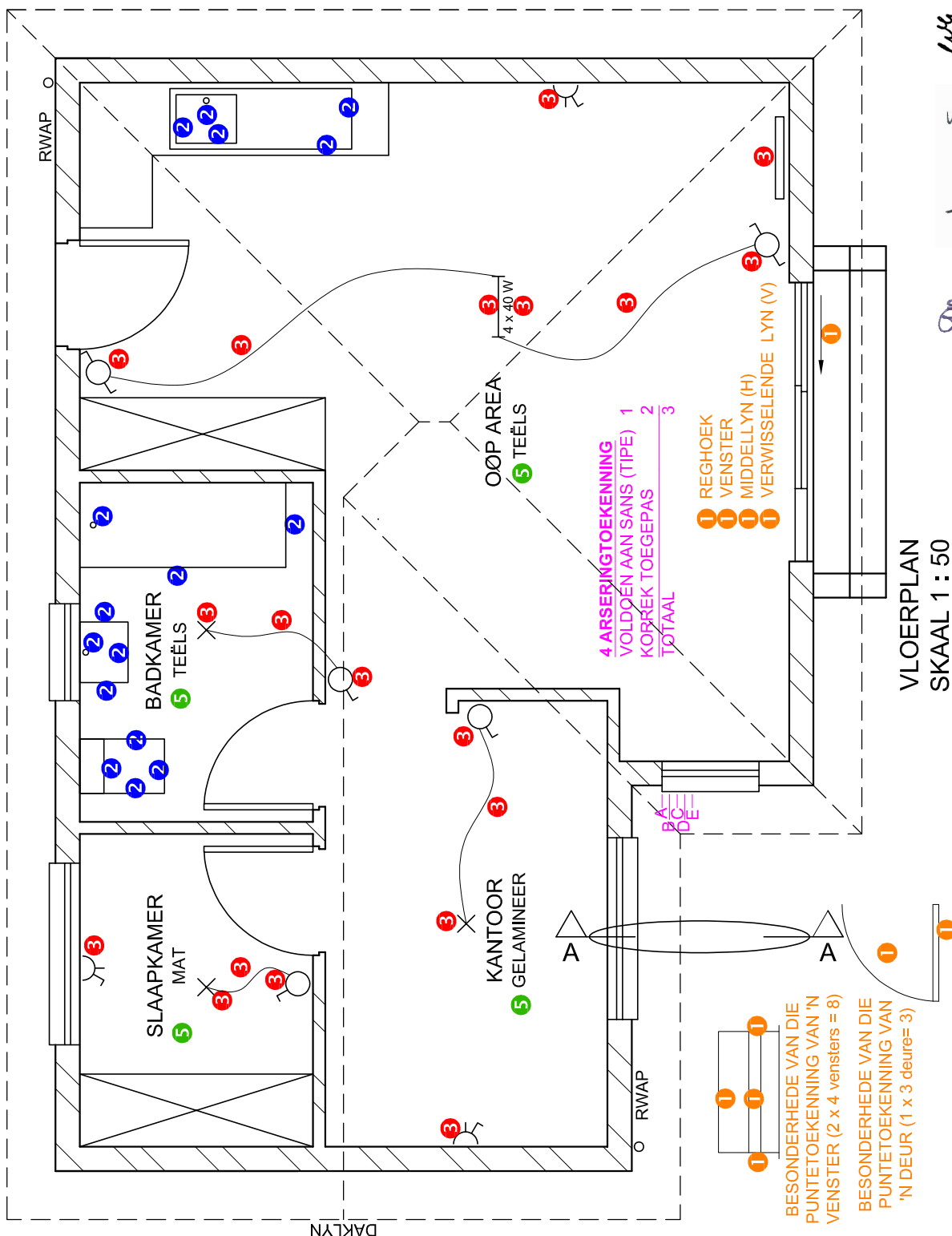
1	KONSTRUKSIE	6
2	VLOER	11
3	MURE	8 $\frac{1}{2}$
4	DAK	4 $\frac{1}{2}$
5	VENSTERS + BOË	10
TOTAAL		40

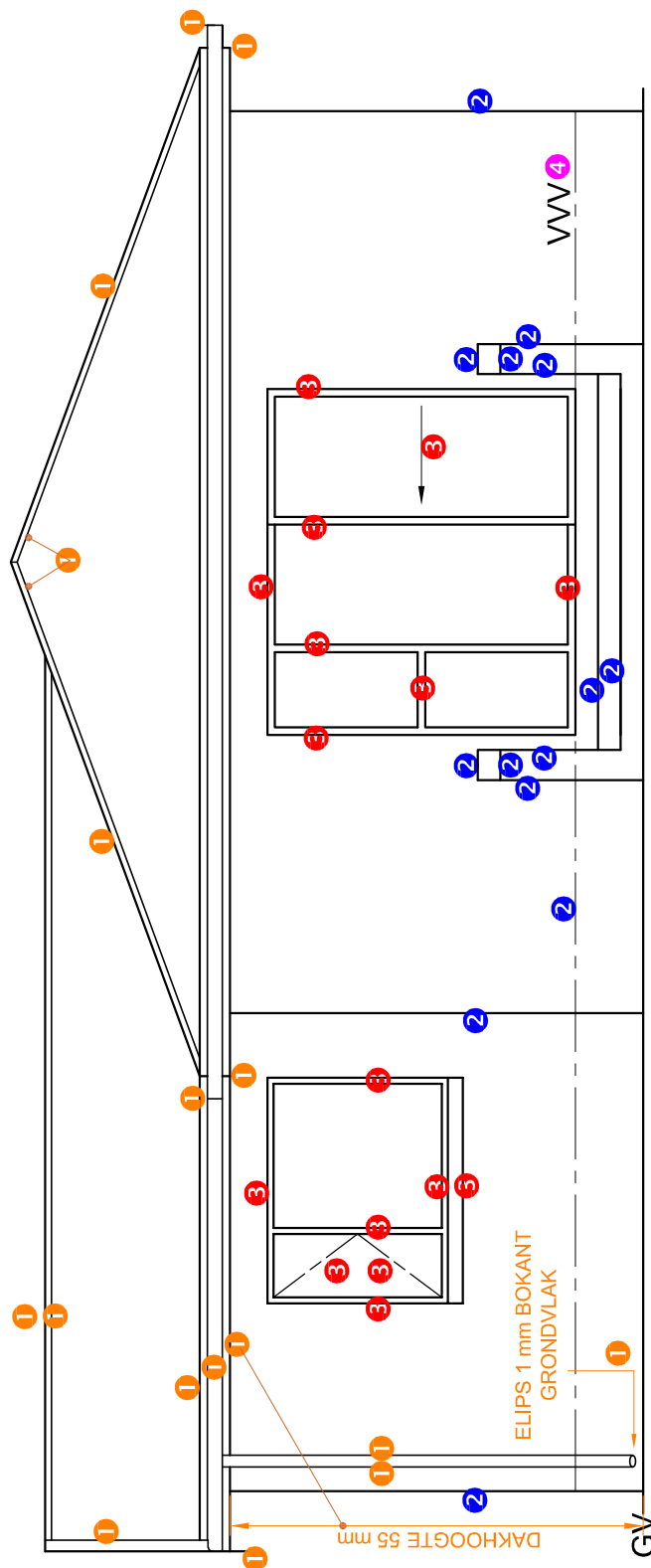
VRAESTEL 1 VRAAG 3
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ASSESSERINGS- KRITERIA		VLOERPLAN
1	DEURE + VENSTERS	13 $\frac{1}{2}$
2	TOEBEHORE	8
3	ELEKTRIES	9 $\frac{1}{2}$
4	ARSERING	3
5	BYSKRIFTE	2
SUBTTOTAAL		36

VRAESTEL 1 VRAAG 4
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ASSESSERINGS- KRITERIA		
NOORDOOS- AANSIG		
1	DAK + RWAP	8 $\frac{1}{2}$
2	MURE + TRAPPE	7
3	DEUR + VENSTER	8
4	BYSKRIFTE	1 $\frac{1}{2}$
SUBTTOTAAL		24

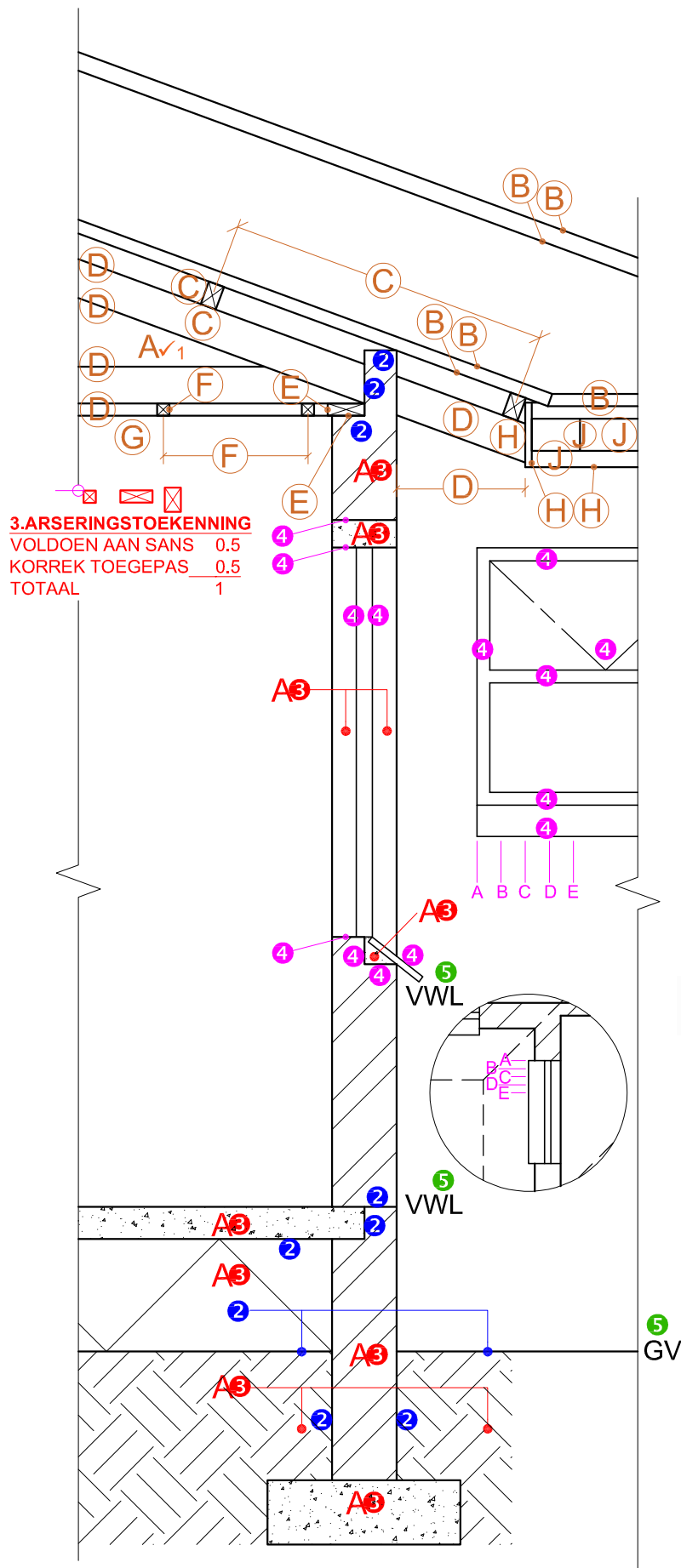
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1



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**1. PUNTETOEKENNING VIR DIE DAK**

A: DAKHELLING	1
B: DAKBEDEKKING + -VORS	2.5
C: DAKLATTE + SPASIES	1.5
D: DAKKAP + OORHANG	3
E: MUURPLAAT	1
F: PLAFONLATTE + SPASIES	1
G: PLAFONBORD	0.5
H: FASSIEPLANK	1.5
J: GEUT	1.5
TOTAAL	13.5

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PUBLIC EXAMINATION**
**ASSESSERINGS-
KRITERIA**
**GEDETAILLEERDE
SNIT**

1	DAKBESON- DERHEDE	13 $\frac{1}{2}$
2	BLAD + MUUR	4 $\frac{1}{2}$
3	ARSERING	5 $\frac{1}{2}$
4	VENSTERS	7
5	BYSKRIFTE	1 $\frac{1}{2}$
SUBTOTAAL		32

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