



Province of the
EASTERN CAPE
EDUCATION

**NATIONAL SENIOR CERTIFICATE /
NASIONALE SENIOR SERTIFIKAAT**

**GRADE 11 /
GRAAD 11**

**ENGINEERING GRAPHICS AND DESIGN P1 /
INGENIEURSGRAFIKA EN -ONTWERP V1**

**NOVEMBER 2022
MARKING GUIDELINE /
NASIENRIGLYN**

MARKS / PUNTE: 200

TIME / TYD: 3 hours / uur

**This memorandum consists of 8 pages.
Hierdie memorandum bestaan uit 8 bladsye.**

Copyright reserved / Kopiereg voorbehou

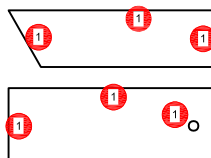
PAPER 1
QUESTION 1: ANALYTICAL MARKING GUIDELINE

| ANSWERS | | |
|----------------|---|-----------|
| 1 | MR P. CEKISO | 1 |
| 2 | DOE-2021EC | 1 |
| 3 | TWO | 1 |
| 4 | 2021-04-12 | 1 |
| 5 | CENTRE LINE | 1 |
| 6 | BUILD IN CUPBOARD | 1 |
| 7 | STOVE | 1 |
| 8 | NONE | 2 |
| 9 | ARCH // OPENING IN WALL | 2 |
| 10 | RED | 1 |
| 11 | BLACK | 1 |
| 12 | MILLIMETRE (mm) | 2 |
| 13 | FLOOR PLAN | 1 |
| 14 | SOUTH EAST ELEVATION | 2 |
| 15 | NO. NOT ALL THE FLOOR FINISHES AND HATCHING ARE INDICATED | 2 |
| 16 | ANSWER BELOW | 4 |
| 17 | ANSWER BELOW | 4 |
| 18 | ANSWER BELOW | 5 |
| TOTAL | | 33 |

VRAESTEL 1
VRAAG 1: ANALITIES NASIENRIGLYN

| ANTWOORDE | | |
|------------------|--|-----------|
| 1 | MNR. P. CEKISO | 1 |
| 2 | DOE-2021EC | 1 |
| 3 | TWEE | 1 |
| 4 | 2021-04-12 | 1 |
| 5 | HARTLYN / SENTERLYN | 1 |
| 6 | INGEBOUDE KAS | 1 |
| 7 | STOOF | 1 |
| 8 | GEEN | 2 |
| 9 | BOOG // OPENING IN MUUR | 2 |
| 10 | ROOI | 1 |
| 11 | SWART | 1 |
| 12 | MILLIMETER (mm) | 2 |
| 13 | VLOERPLAN | 1 |
| 14 | SUIDOOS-AANSIG | 2 |
| 15 | NEE. AL DIE VLOERAFWERKINGS EN ARSERING IS NIE AANGEDUI NIE. | 2 |
| 16 | ANTWOORD ONDER | 4 |
| 17 | ANTWOORD ONDER | 4 |
| 18 | ANTWOORD ONDER | 5 |
| TOTAAL | | 33 |

QUESTION / VRAAG 16



Vryhand Freehand Plasing Placing

[4]

QUESTION / VRAAG 17

Toon alle berekeninge / Show all calculations

calculation: + / x 2(L + B)
 correct values 2(8.5 + 9.5)
 correct answer
 correct unit = 36 m

+ / x berekening
 korrekte waardes
 korrekte antwoord
 korrekte eenheid

[4]

QUESTION / VRAAG 18

Toon alle berekeninge / Show all calculations

calculation (+) - berekening (+)
 correct values korrekte waardes
 correct answer korrekte antwoord
 correct unit (m) korrekte eenheid (m)

L X B
 1,760 X 4,240 = 7,4624m²

[5]

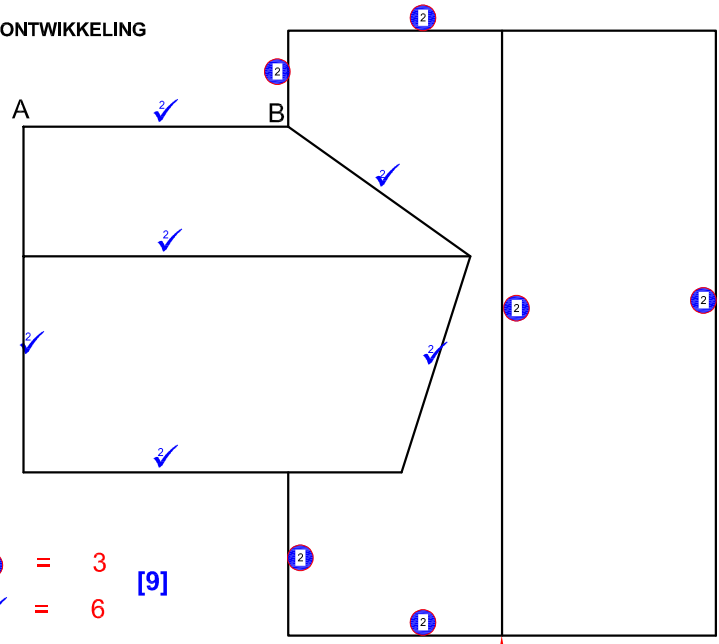
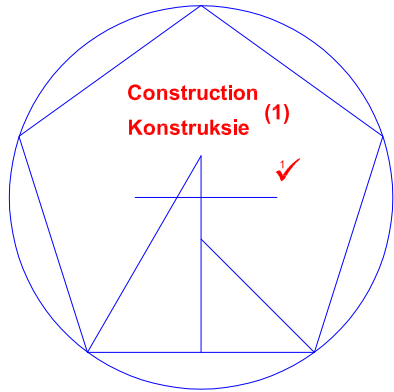
PAPER 1 - QUESTION 2: INTERPENETRATION AND DEVELOPMENT

Gr. 11
 NOVEMBER 2021
 MARKING GUIDELINE

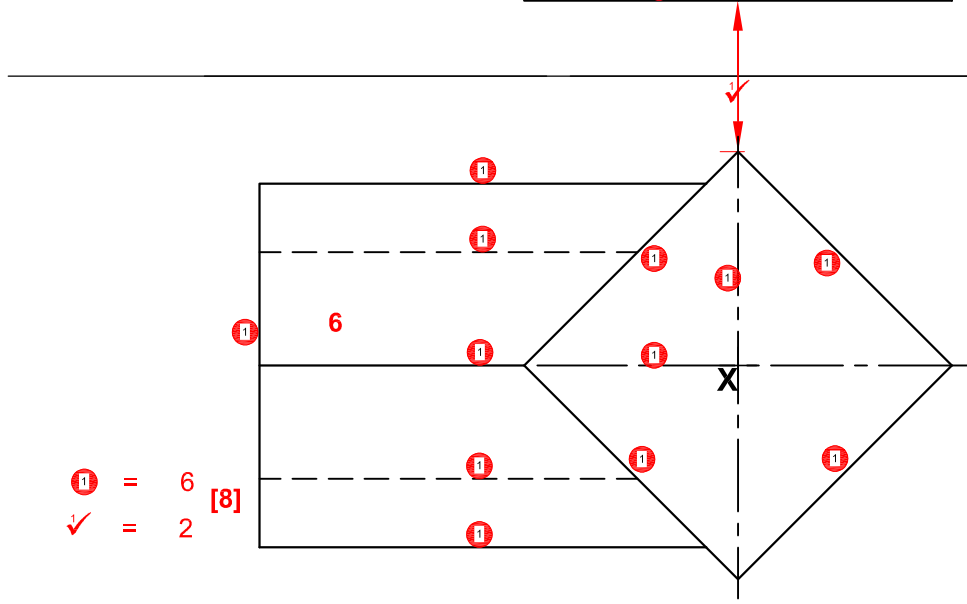
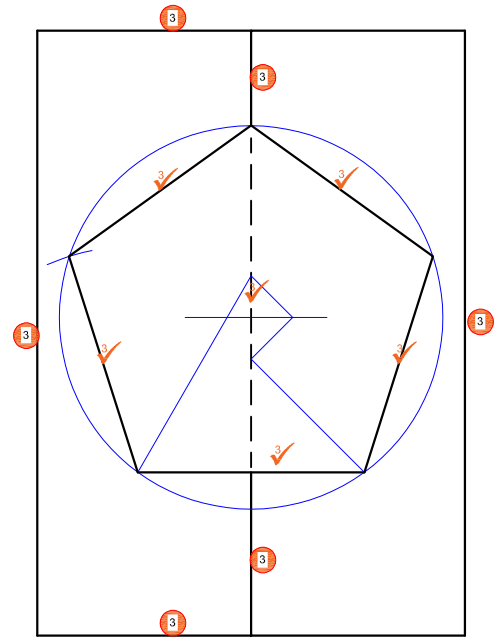
VRAESTEL 1 - VRAAG 2: INTERPENETRASIE EN ONTWIKKELING

Gr. 11
 NOVEMBER 2021
 NASIENRIGLYN

③ = 3
 ✓ = 6 [9]



② = 3
 ✓ = 6 [9]



① = 6
 ✓ = 2 [8]

| ASSESSERINGSKRITERIA | | |
|----------------------|------------------------------|-----------|
| 1 | BOAANSIG + SL + KONSTRUKSIE | 8 |
| 2 | VOORAANSIG | 9 |
| 3 | LINKERAANSIG | 9 |
| 4 | ONTWIKKELING (volgende blaa) | 14 |
| TOTAAL | | 40 |

| ASSESSMENT CRITERIA | | |
|---------------------|------------------------------|-----------|
| 1 | TOP VIEW + CL + CONSTRUCTION | 8 |
| 2 | FRONT VIEW | 9 |
| 3 | LEFT VIEW | 9 |
| 4 | DEVELOPMENT (next page) | 14 |
| TOTAL | | 40 |

PAPER 1 - QUESTION 2: INTERPENETRATION AND DEVELOPMENT

Gr. 11

NOVEMBER 2021

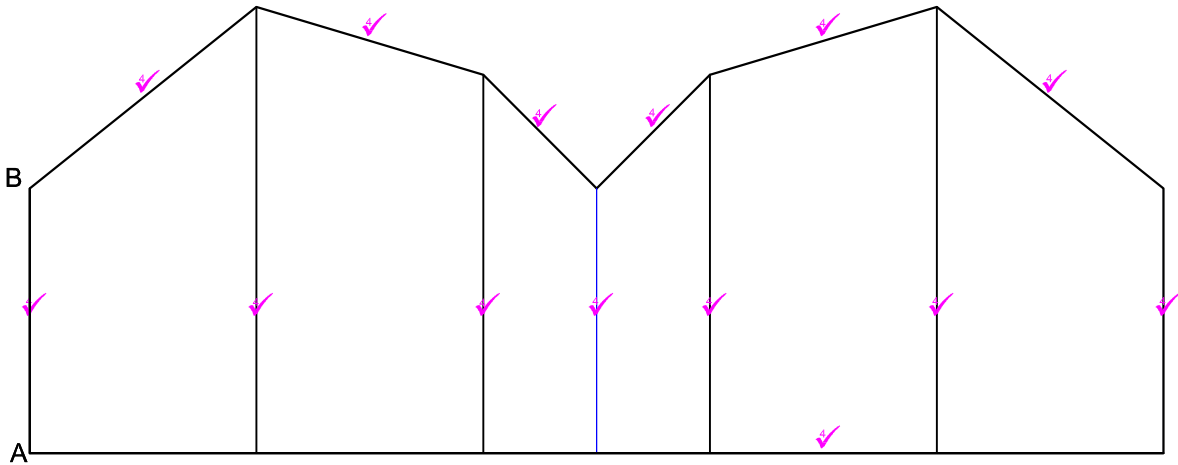
MARKING GUIDELINE

VRAESTEL 1 - VRAAG 2: INTERPENETRASIE EN ONTWIKKELING

Gr. 11

NOVEMBER 2021

NASIENRIGLYN

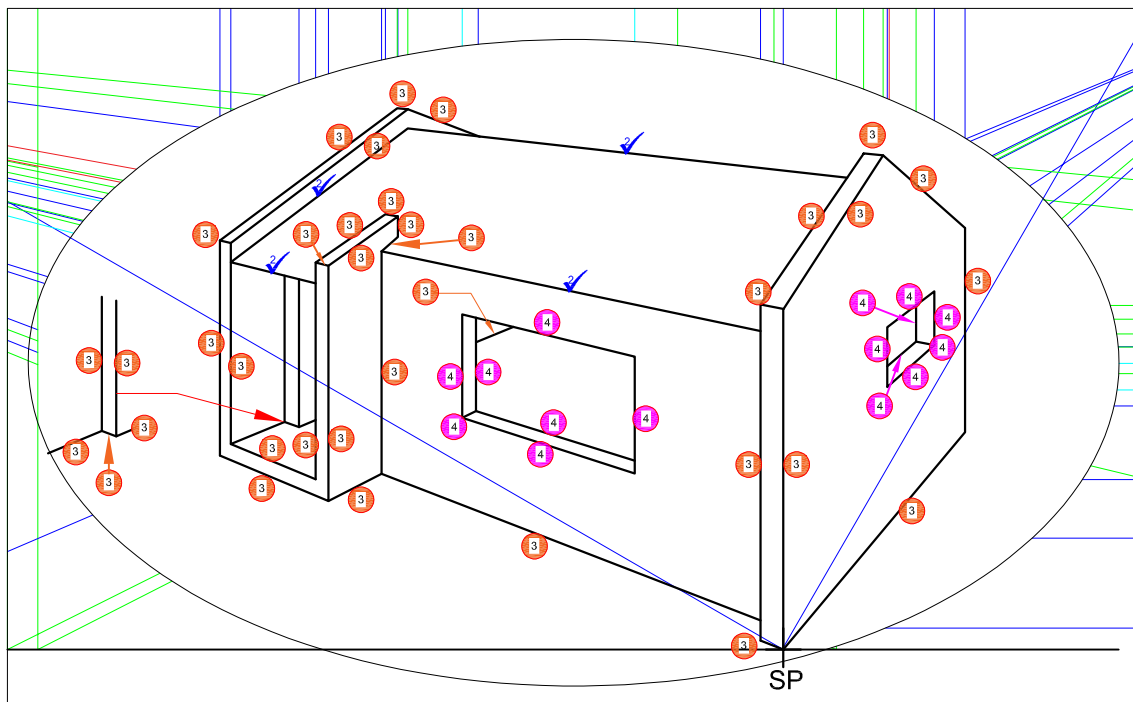
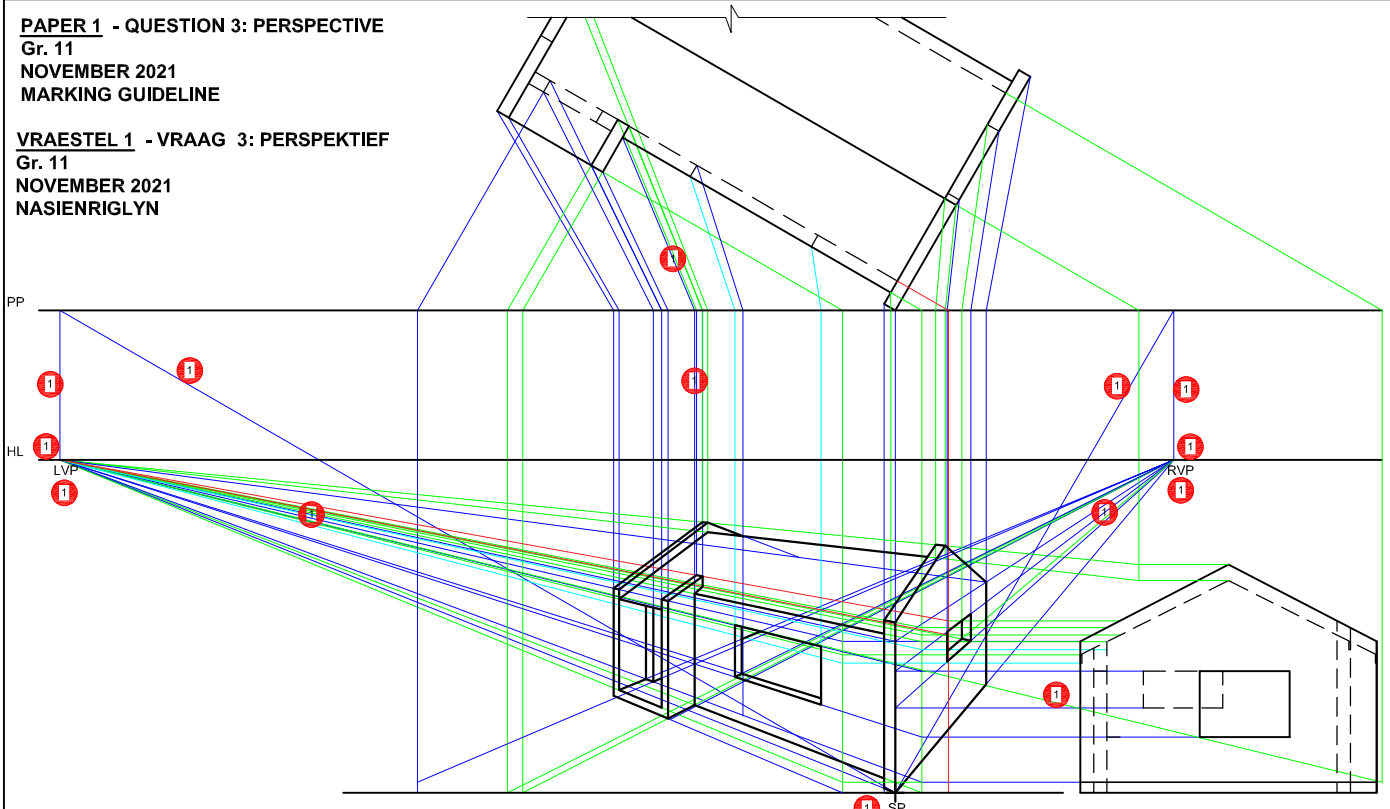


| ASSESSERINGSKRITERIA | | |
|----------------------|------------------------|-----------|
| 1 | BOAANSIG + KONSTRUKSIE | 8 |
| 2 | VOORAANSIG | 9 |
| 3 | LINKERAANSIG | 9 |
| 4 | ONTWIKKELING | 14 |
| TOTAAL | | 40 |

| ASSESSMENT CRITERIA | | |
|---------------------|-------------------------|-----------|
| 1 | TOP VIEW + CONSTRUCTION | 8 |
| 2 | FRONT VIEW | 9 |
| 3 | LEFT VIEW | 9 |
| 4 | DEVELOPMENT | 14 |
| TOTAL | | 40 |

PAPER 1 - QUESTION 3: PERSPECTIVE
 Gr. 11
 NOVEMBER 2021
 MARKING GUIDELINE

VRAESTEL 1 - VRAAG 3: PERSPEKTIEF
 Gr. 11
 NOVEMBER 2021
 NASIENRIGLYN



| ASSESSMENT CRITERIA | | |
|---------------------|---------------------|-----------|
| 1 | CONSTRUCTION + VP's | 7 |
| 2 | ROOF | 4 |
| 3 | WALLS | 18 |
| 4 | WINDOWS | 7 |
| TOTAL | | 36 |

| ASSESSERINGSKRITERIA | | |
|----------------------|--------------------|-----------|
| 1 | KONSTRUKSIE & VPte | 7 |
| 2 | DAK | 4 |
| 3 | MURE | 18 |
| 4 | VENSTERS | 7 |
| TOTAAL | | 36 |

PAPER 1 - QUESTION 4: FLOOR PLAN

Gr. 11
 NOVEMBER 2021
 MARKING GUIDELINE

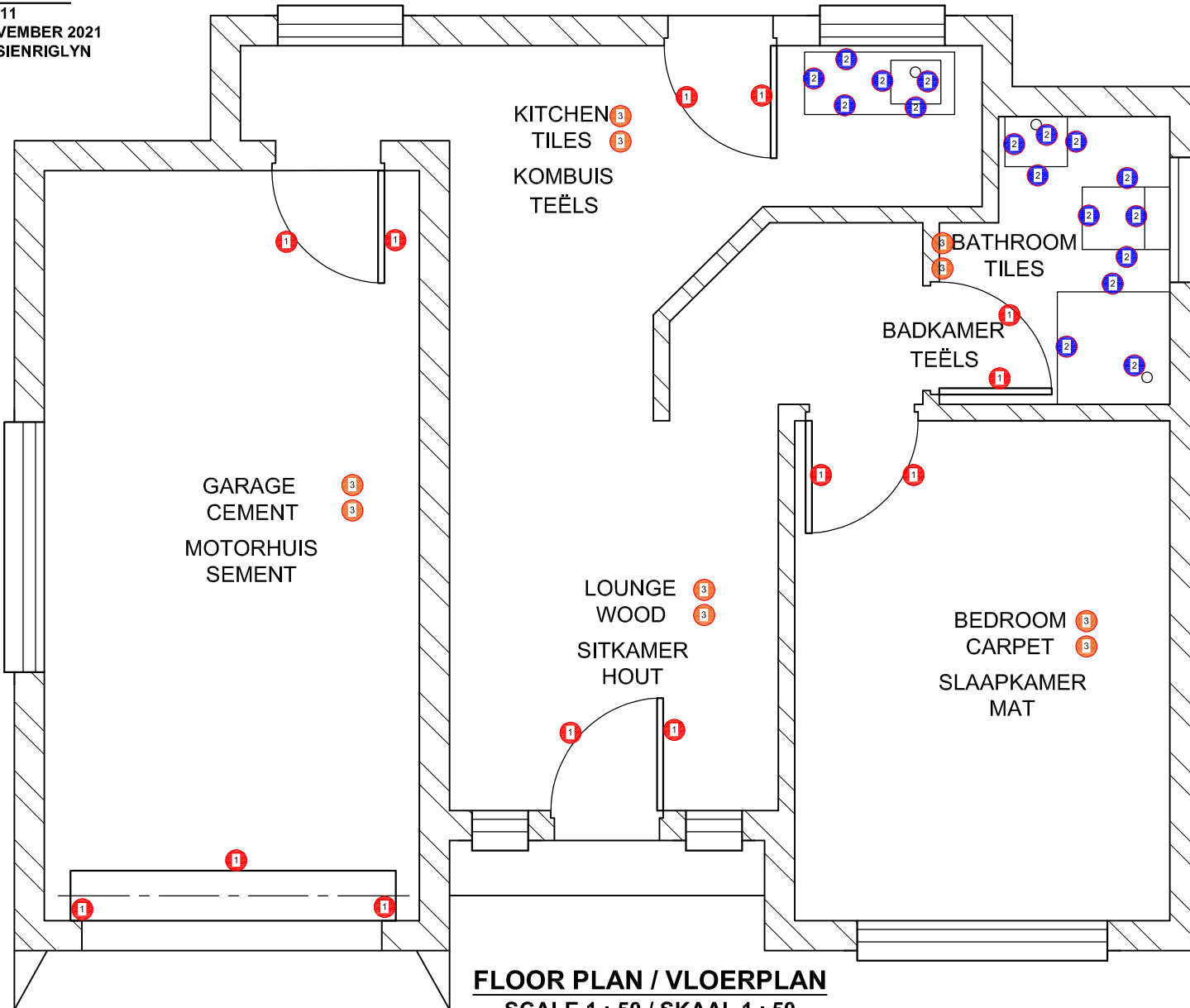
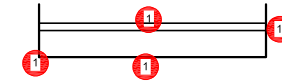
VRAESTEL 1 - VRAAG 4: VLOERPLAN

Gr. 11
 NOVEMBER 2021
 NASIENRIGLYN

Arsering: Alles gearseer ✓4 ✓4 ✓4
 Volgens SANS riglyne ✓4
 Siviele arsering is gebruik ✓4
 Moet instrumente gebruik

Hatching: All hatched ✓4 ✓4 ✓4
 SANS compliant ✓4
 Civil hatching used ✓4
 Instruments must be used

7 X VENSTERS / WINDOWS



| ASSESSERINGSKRITERIA | | |
|----------------------|------------------|-----------|
| VLOERPLAN | | |
| 1 | DEURE + VENSTERS | 20 1/2 |
| 2 | TOEBEHORE | 8 1/2 |
| 3 | BYSKRIFTE | 5 |
| 4 | ARSERING | 5 |
| SUBTOTAAL | | 39 |

| ASSESSMENT CRITERIA | | |
|---------------------|-----------------|-----------|
| FLOOR PLAN | | |
| 1 | DOORS + WINDOWS | 20 1/2 |
| 2 | FIXTURES | 8 1/2 |
| 3 | LABELS | 5 |
| 4 | HATCHING | 5 |
| SUB-TOTAL | | 39 |

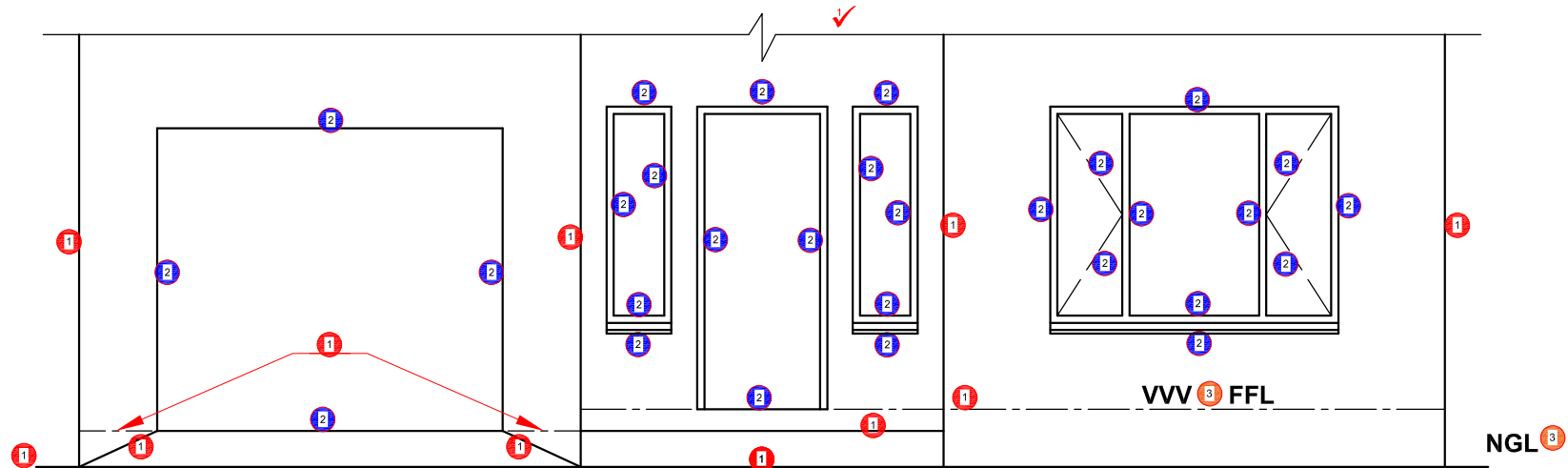
FLOOR PLAN / VLOERPLAN
 SCALE 1 : 50 / SKAAL 1 : 50

PAPER 1 - QUESTION 4: ELEVATION

Gr. 11
 NOVEMBER 2021
 MARKING GUIDELINE

VRAESTEL 1 - VRAAG 4: ELEVASIE

Gr. 11
 NOVEMBER 2021
 NASIENRIGLYN



EAST ELEVATION 3
 SCALE 1 : 50 3

OOS-AANSIG
 SKAAL 1 : 50

| ASSESSMENT CRITERIA | | |
|---------------------|----------------------------------|-----------|
| EAST ELEVATION | | |
| 1 | WALLS + STEPS + FFL + BREAK LINE | 6 ½ |
| 2 | DOOR + WINDOWS | 14 ½ |
| 3 | LABELS | 2 |
| SUB-TOTAL | | 23 |

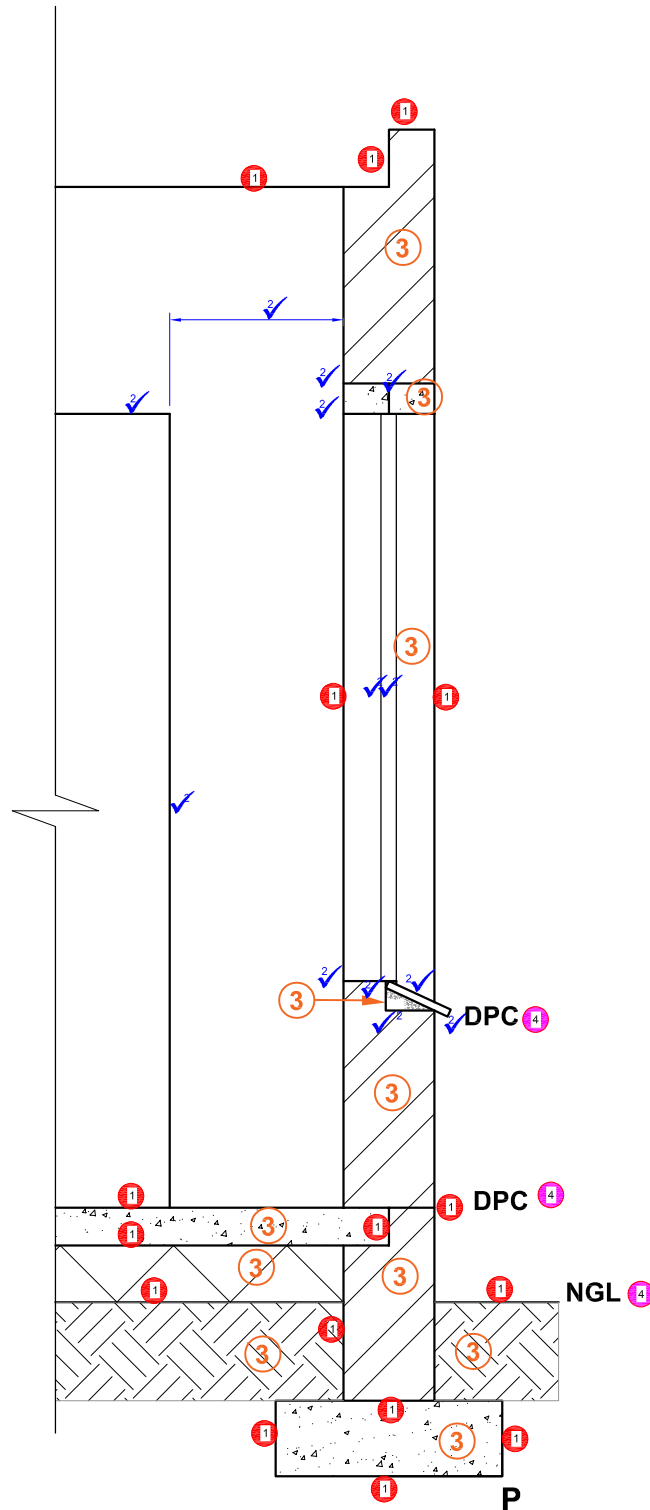
| ASSESSERINGSKRITERIA | | |
|----------------------|--------------------------------|-----------|
| OOS-AANSIG | | |
| 1 | MURE + TRAPPE + VVV + BREEKLYN | 6 ½ |
| 2 | DEURE + VENSTERS | 14 ½ |
| 3 | BYSKRIFTE | 2 |
| SUBTOTAAL | | 23 |

PAPER 1 - QUESTION 4: DETAILED SECTION

Gr. 11
 NOVEMBER 2021
 MARKING GUIDELINE

VRAESTEL 1 - VRAAG 4: GEDETAILEERDE SNIT

Gr. 11
 NOVEMBER 2021
 NASIENRIGLYN



DETAILED SECTION ON A : A
SCALE 1 : 20

GEDETAILEERDE SNIT A : A
SKAAL 1 : 20

| ASSESSMENT CRITERIA | | |
|---------------------|--------------------------------------|-----------|
| DETAILED SECTION | | |
| 1 | FOUNDATIONS + WALLS + FLOOR | 8 |
| 2 | WINDOW + SILL + LINTEL + GARAGE DOOR | 13 |
| 3 | HATCHING | 5 1/2 |
| 4 | LABELS | 2 1/2 |
| SUB TOTAL | | 29 |

| ASSESSERINGSKRITERIA | | |
|----------------------|---|-----------|
| GEDETAILEERDE SNIT | | |
| 1 | FONDASIE + MURE + VLOER | 8 |
| 2 | VENSTER + VENSTERBANK + LATEI + MOTORHUISDEUR | 13 |
| 3 | ARSERING | 5 1/2 |
| 4 | BYSKRIFTE | 2 1/2 |
| SUBTOTAAL | | 29 |