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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NASIONALE SENIOR SERTIFIKAAT

GRAAD 12

INGENIEURSGRAFIKA EN -ONTWERP V1

NOVEMBER 2014

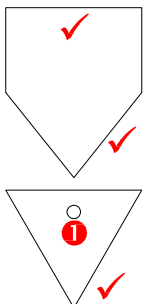
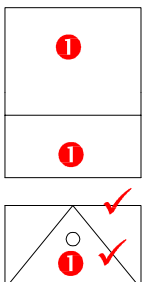
MEMORANDUM

PUNTE: 100

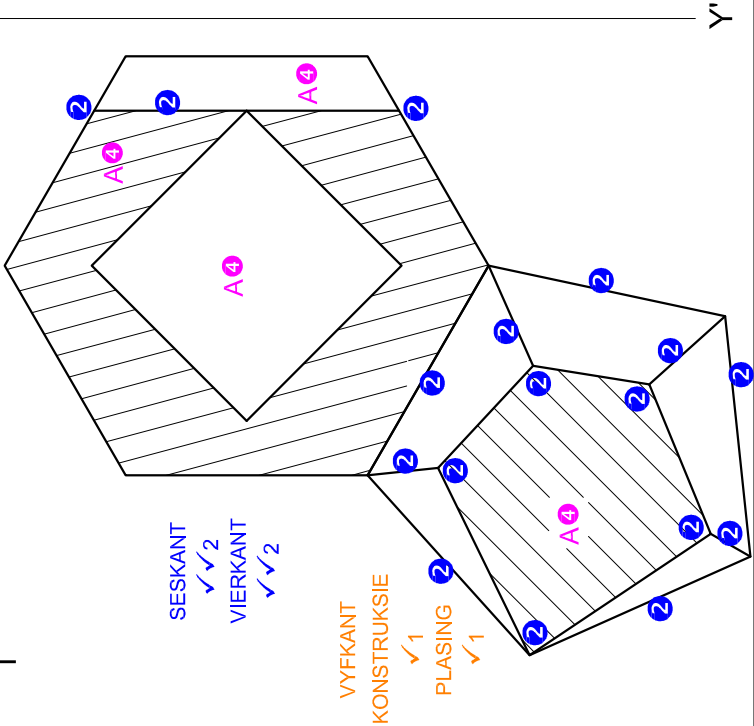
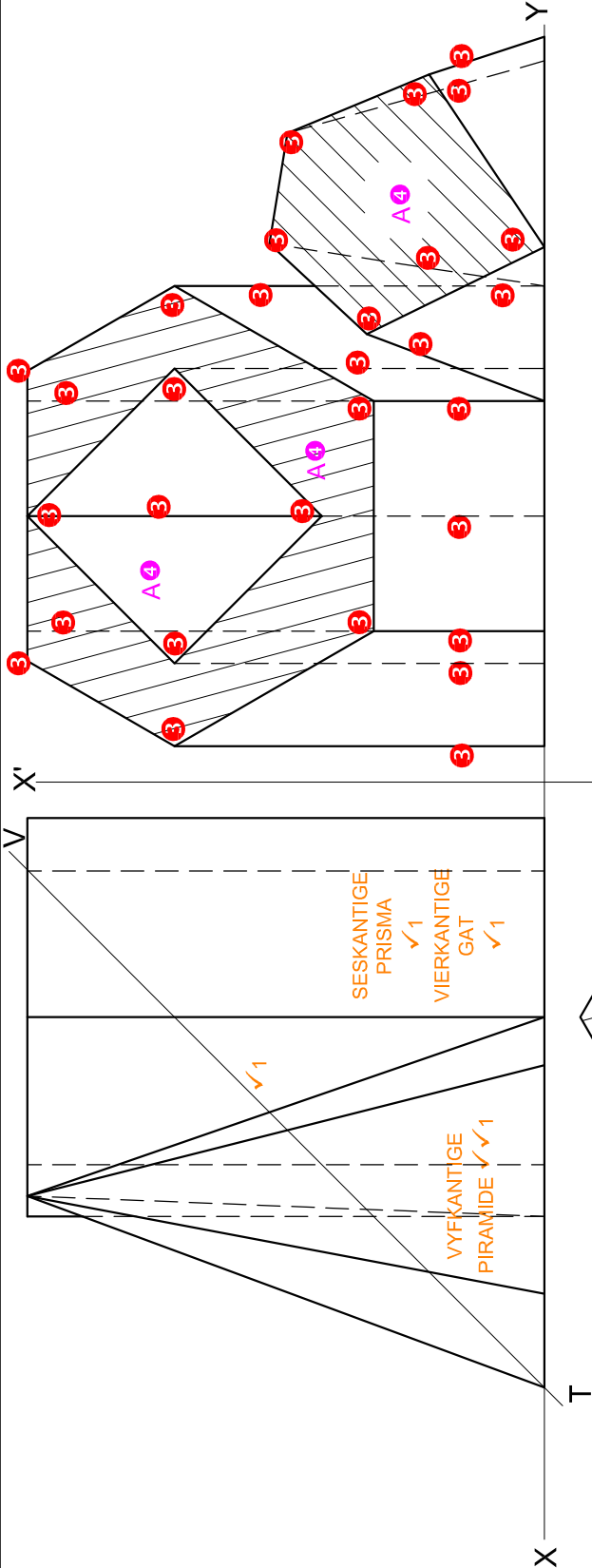
Hierdie memorandum bestaan uit 7 bladsye.

	ANTWOORDE	
1	2014-08-05	1
2	BEVESTIG AFMETINGS EN HOOGTES	1
3	1 : 500	1
4	VERANDER PAD	1
5	TEER	1
6	KONFERENSIESENTRUM	1
7	GEEL	1
8	BLOU	1
9	HOOGTE BO SEEVLAK/HOEKHOOGTE	1
10	MANGAT	1
11	GRENSLYN	1
12	SYPAADJIE	1
13	BEHEERPUNT/WAGHUIS	1
14	GEKOMPakteerde HARDE PUIN	1
15	KRUINWEG	2
16	24	2
17	75,128	2
18	129,6 [berekening 1, antwoord 1, verwerk na meters 1]	3
19	865,67 m ² [berekening 1, antwoord 1, meter ² 1]	3
20	(Sien hieronder)	4

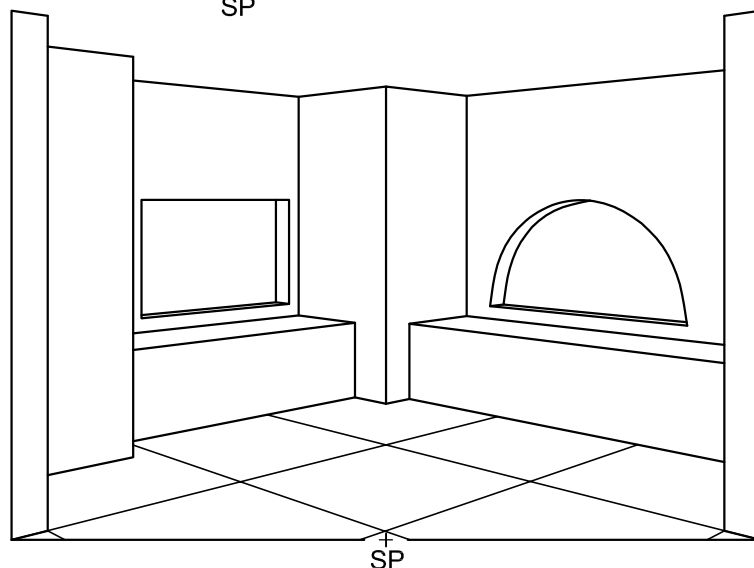
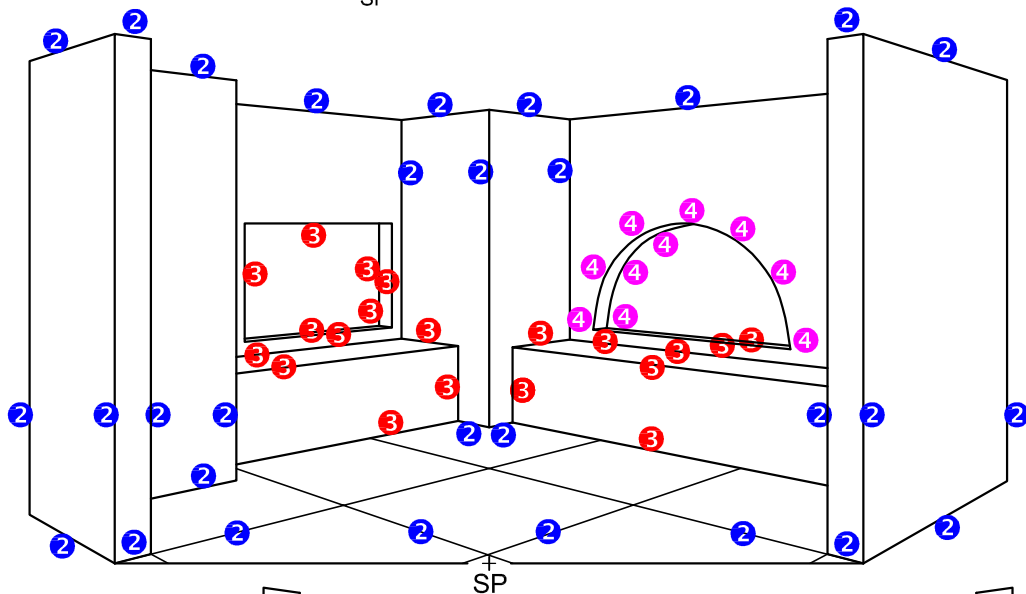
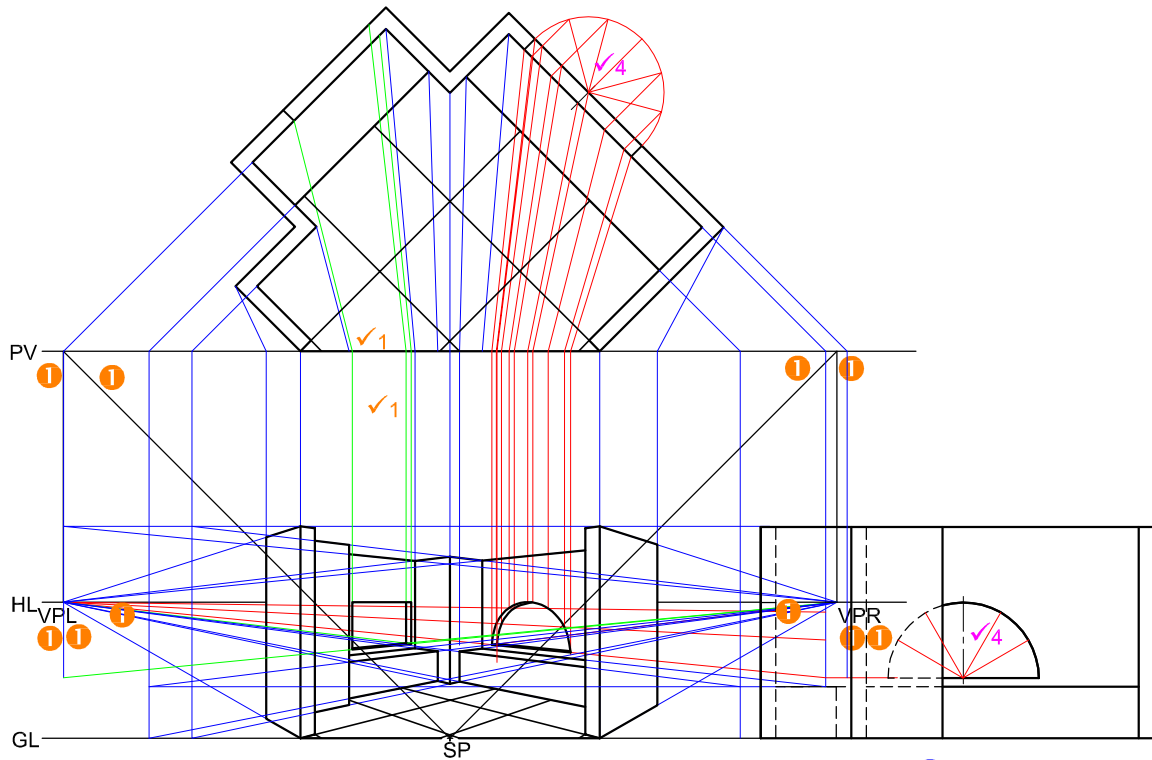
TOTAAL: 30

20 VRYHAND ① 	20 VRYHAND ①  ALTERNATIEWE ANTWOORD
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ASSESSERINGSKRITERIA	
1	KONST. + VOORAANSIG 7
2	DEURSNEE-BOAANSIG 12½
3	DEURSNEE-LINKERAANSIG 15
4	ARSERING 3½
TOTAAL 38	



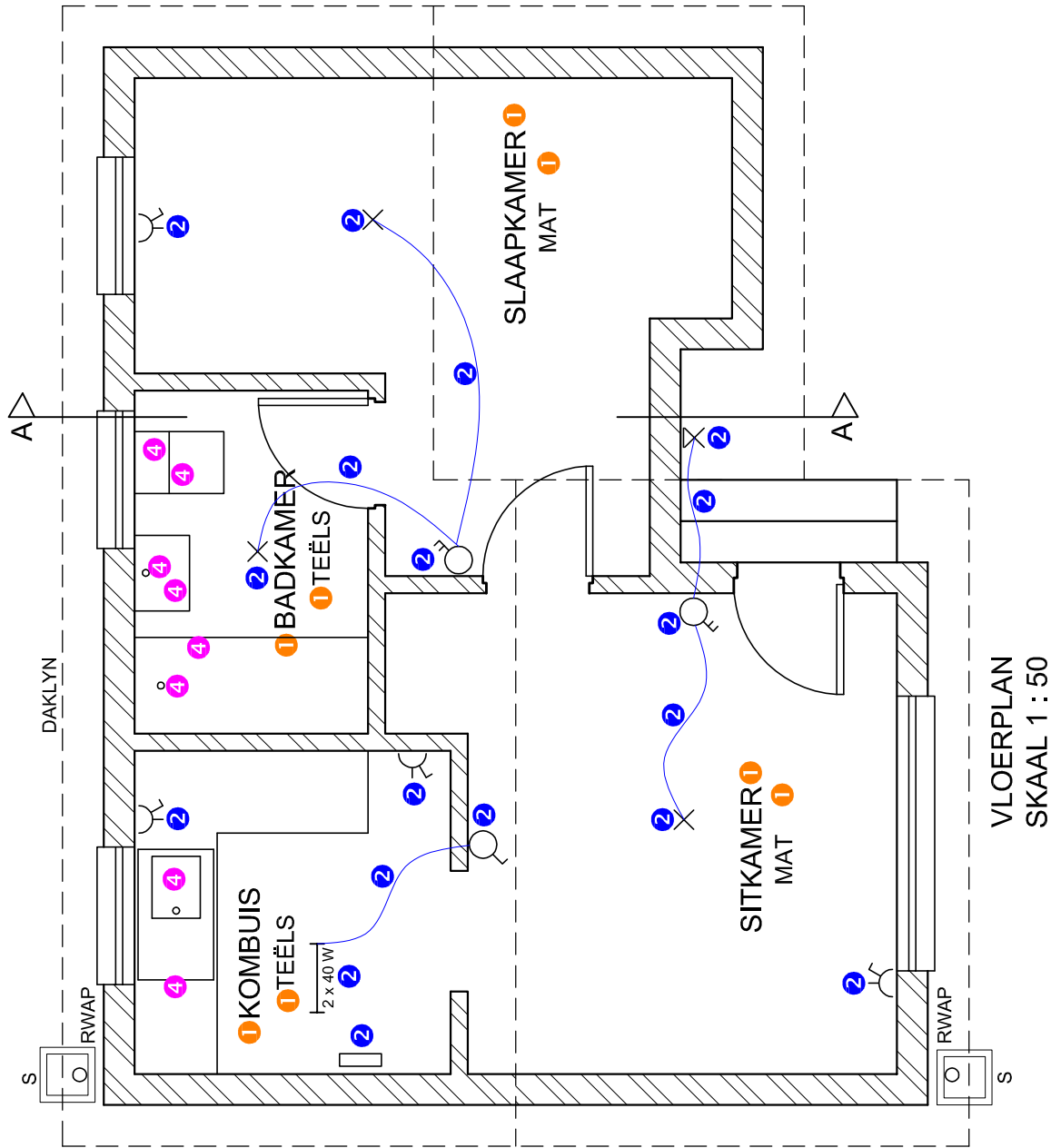
VRAESTEL 1 VRAAG 2
GRAAD 12
NOVEMBER 2014
MEMORANDUM



ASSESSERINGSKRITERIA

1	KONSTRUKSIE + VPs	7
2	MURE + TEËLS	15
3	OPENINGE + SITPLEKKE	10
4	HALFSIRKEL	7
TOTAAL		39

VRAESTEL 1 VRAAG 3
 GRAAD 12
 NOVEMBER 2014
 MEMORANDUM

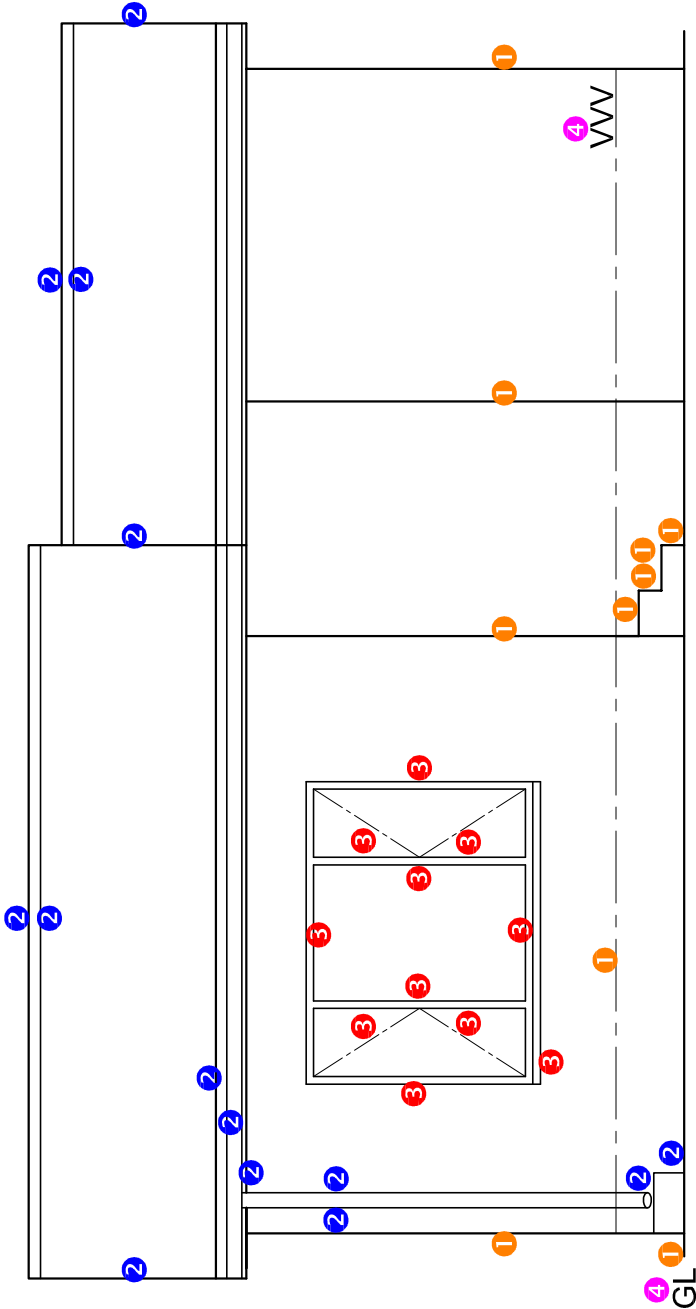


BESONDERHEDE VAN PUNTETOEKENNING
VIR 'N VENSTER (2 x 4 vensters = 8)

BESONDERHEDE VAN
PUNTETOEKENNING VIR 'N DEUR
(1 x 3 dure = 3)

ARSERINGTOEKENNING (4)
SANS VOLDOEN AAN (TIPE)
ARSERING KORREK TOEGEPAS 2
TOTAAL 4

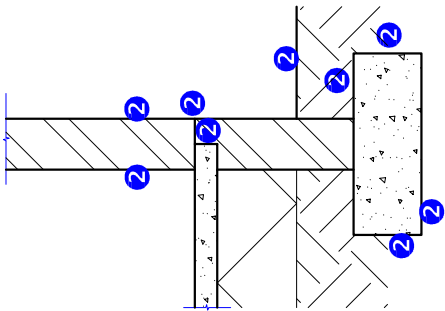
ASSESSERINGS- KRITERIA	
VLOERPLAN	
1	BYSKRIFTE 4
2	ELEKTRIES 9
3	DEURE + VENSTERS 11
4	TOEBEHORE 4
5	ARSERING 4
SUBTOTAAL 32	



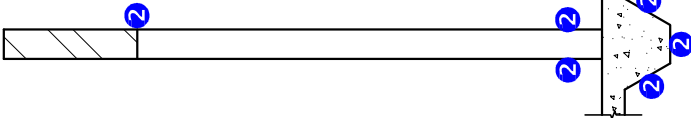
NOORDAANSIG

ASSESSERINGS- KRITERIA		
NOORDAANSIG		
1	MUUR + VW	5
2	DAK + FASSIE- PLANK + GEUT + RWAP	7
3	VENSTER	5½
4	BYSKRIFTE	1½
SUBTOTAAL		19

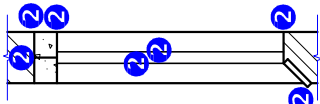
DAKPUNTTOEKENNIG (1)	
KORREKTE DAK HELLING	1
DAKPLAAT	1
DAKNOK	$\frac{1}{2}$
DAKLATTE	2
DAKKAP ($7 \times \frac{1}{2}$)	$3\frac{1}{2}$
MUURPLAAT ($2 \times \frac{1}{2}$)	1
FASSIEPLANK ($2 \times \frac{1}{2}$)	2
GEUT	2
PLAFONLATTE	2
PLAFONBORD	1
TOTAAL	15



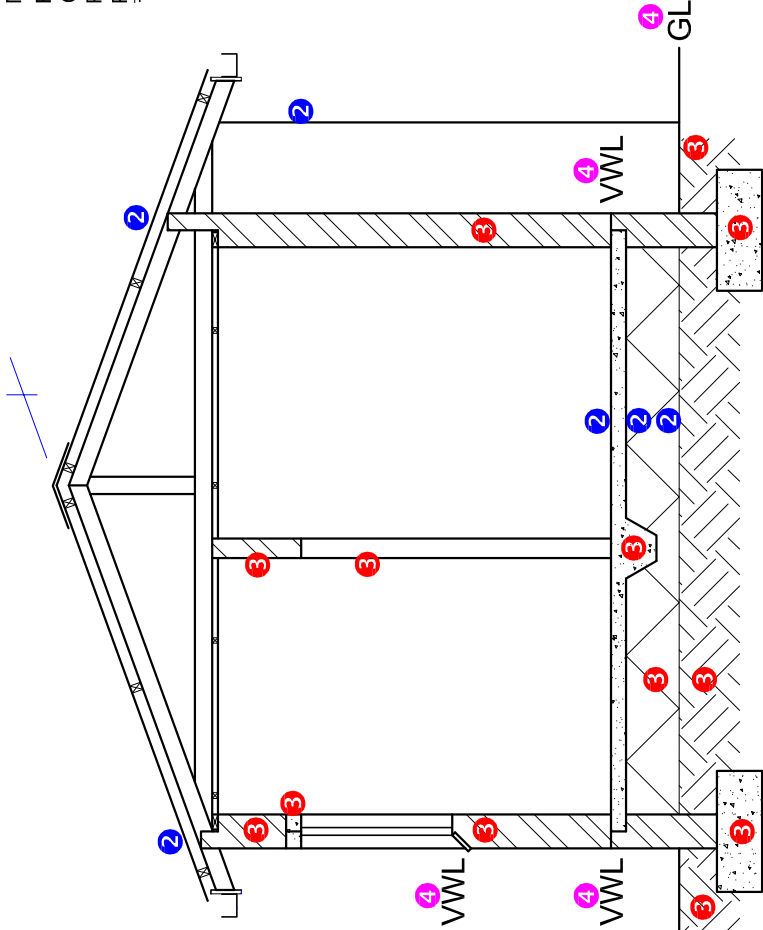
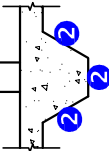
BESONDERHEDE VAN
PUNTTOEKENNING VIR FONDASIE
BEIDE DRAMURE
($9 \times \frac{1}{2}$) $\times 2 = 9$



BESONDERHEDE VAN
PUNTTOEKENNING VIR DIE
VENSTER



BESONDERHEDE VAN
PUNTTOEKENNING VIR DIE
VOET EN BINNEMUUR



SNIT A-A

ASSESSERINGS- KRITERIA	
DEURSNEE-AANSIG A-A	
1	DAK + FASSIE- PLANK + GEUT + RWAP
2	MURE + VLOER + FONDASIE
3	ARSERING
4	BYSKRIFTE
SUBTOTAAL	