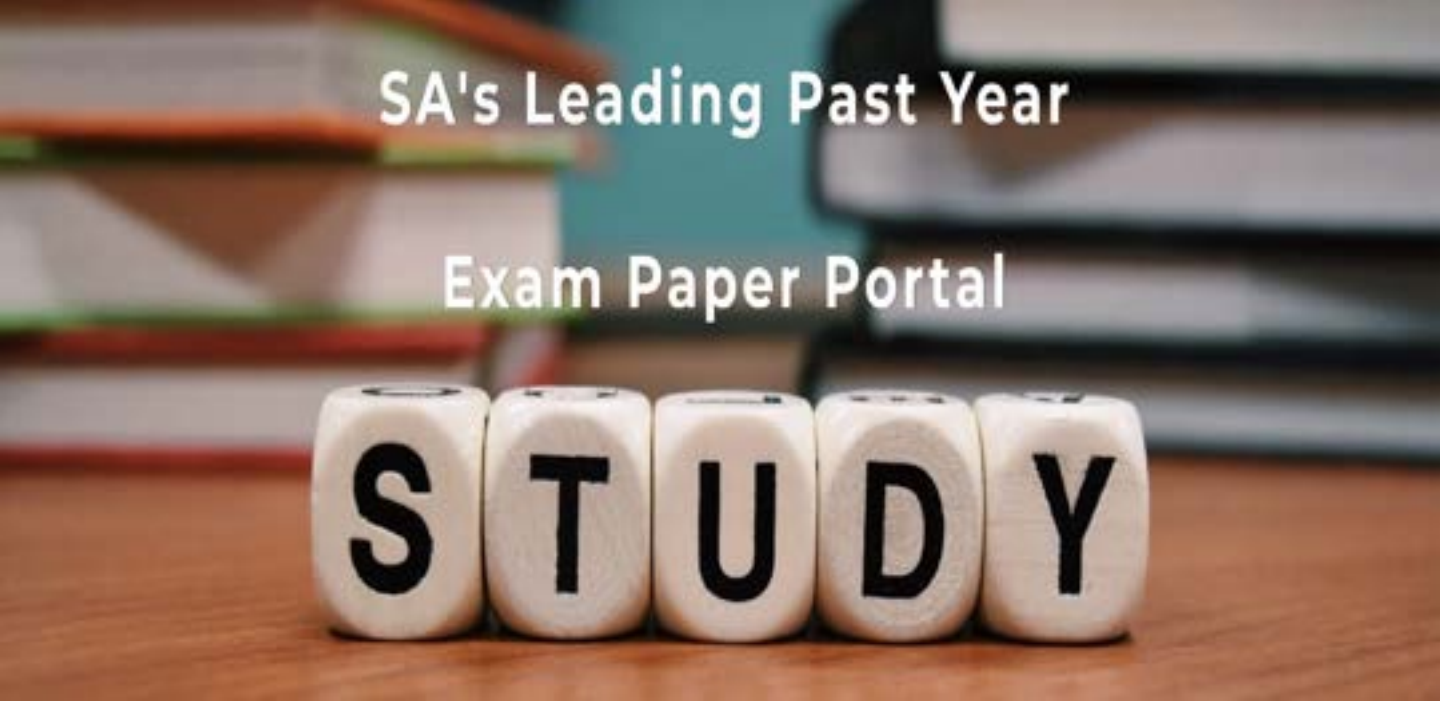

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NASIONALE SENIOR SERTIFIKAAT

GRAAD 12

INGENIEURSGRAFIKA EN -ONTWERP V1

FEBRUARIE/MAART 2012

MEMORANDUM

PUNTE: 100

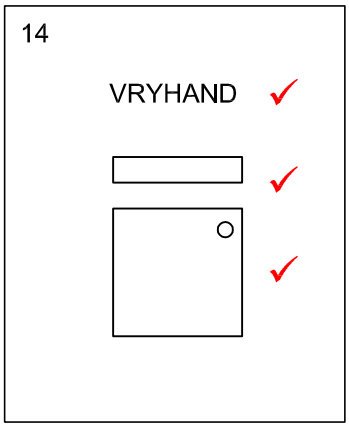
Hierdie memorandum bestaan uit 7 bladsye.

Kopiereg voorbehou

ANTWOORDE

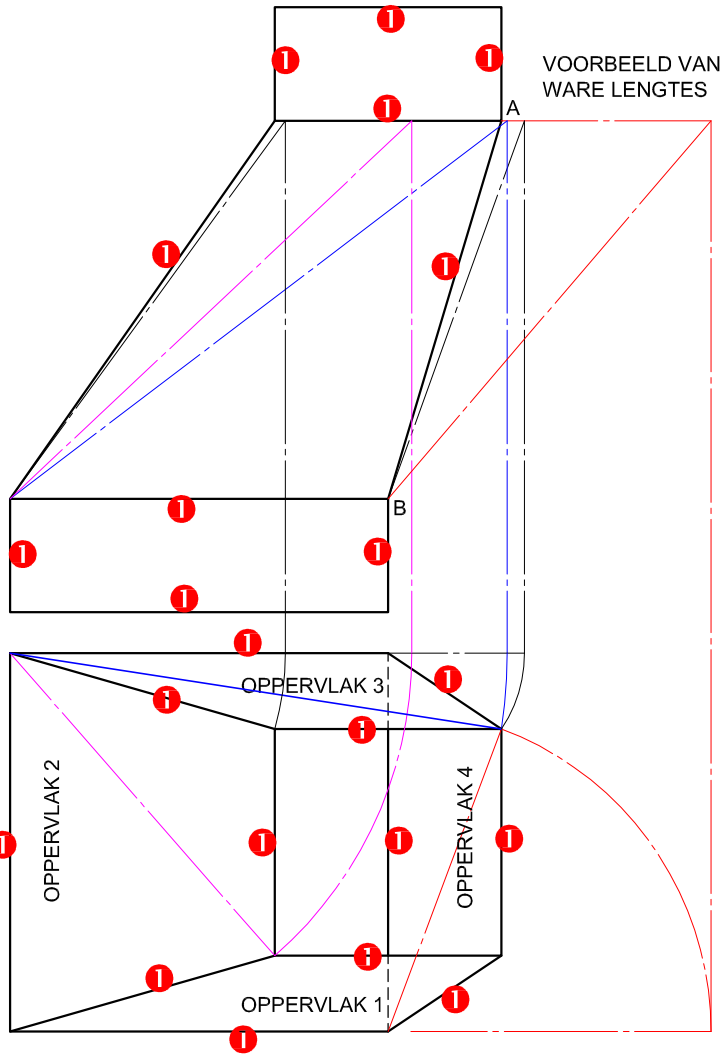
1	FONDASIE	6		10
	VOGWEERLAAG	9		
	GRONDVLAK	7		
	BINNEMUUR	1		
	BETONBLAD	3		
	GEKOMPAKTEERDE HARDEPUIN	4		
	ONGESTEURDE AARDE	5		
	VLAKLAAG	2		
	PLEISTER	10		
	VOLTOOIDE VLOERVLAK	8		
2	Q1P1-SUP-2012			1
3	ZAPPY DRUKKERS			1
4	5 m of 5000 mm			1
5	STRELITZIARYLAAN			1
6	HOOGTE			1
7	INHEEMSE BOME			1
8	RYLAAN			1
9	SEPTIESE TENK			1
10	PARKERING			1
11	6			1
12	KEISTEEN			1
13	469 m [berekening 1, antwoord 1, meter 1]			3
14				3
15	106 m² [berekening 1, antwoord 1, meter² 1]			3

TOTAAL: 30



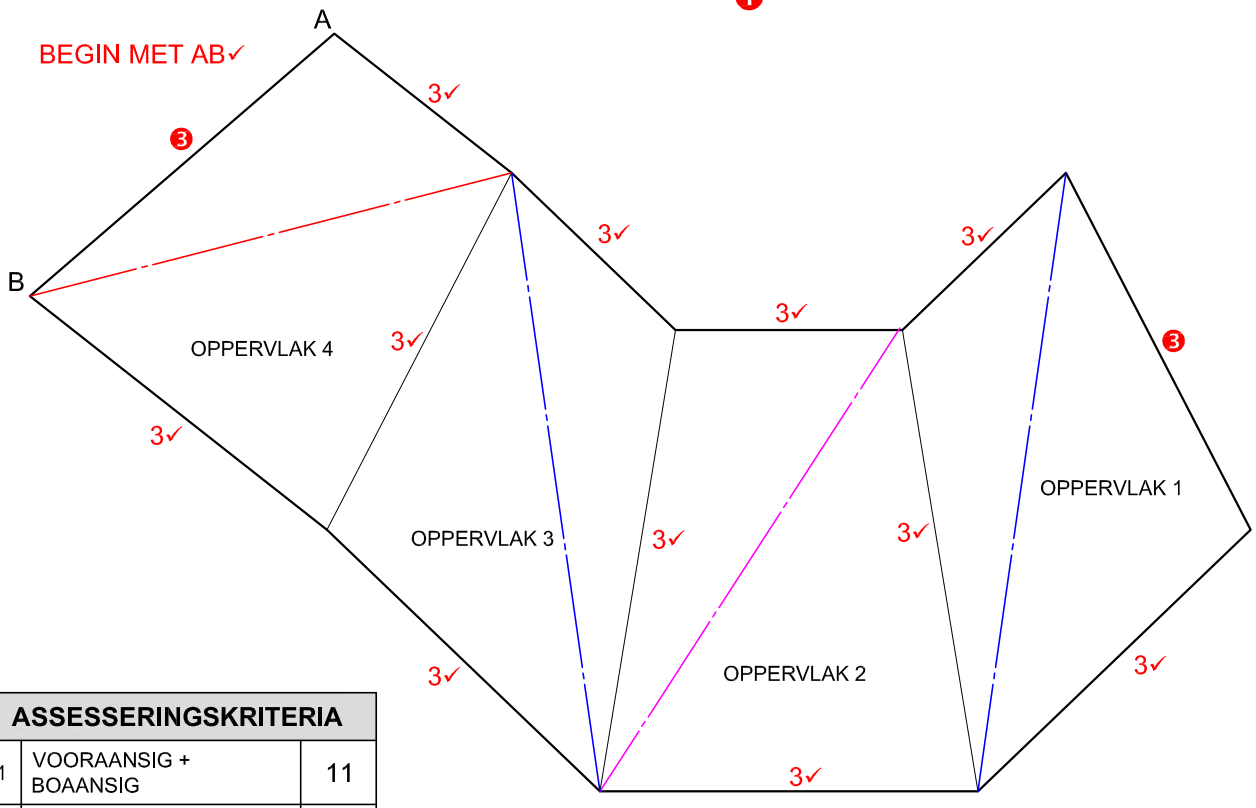
VRAESTEL 1 VRAAG 1
GRAAD 12
Feb.-Mrt. 2012
MEMORANDUM

VOORBEELD VAN
WARE LENGTES



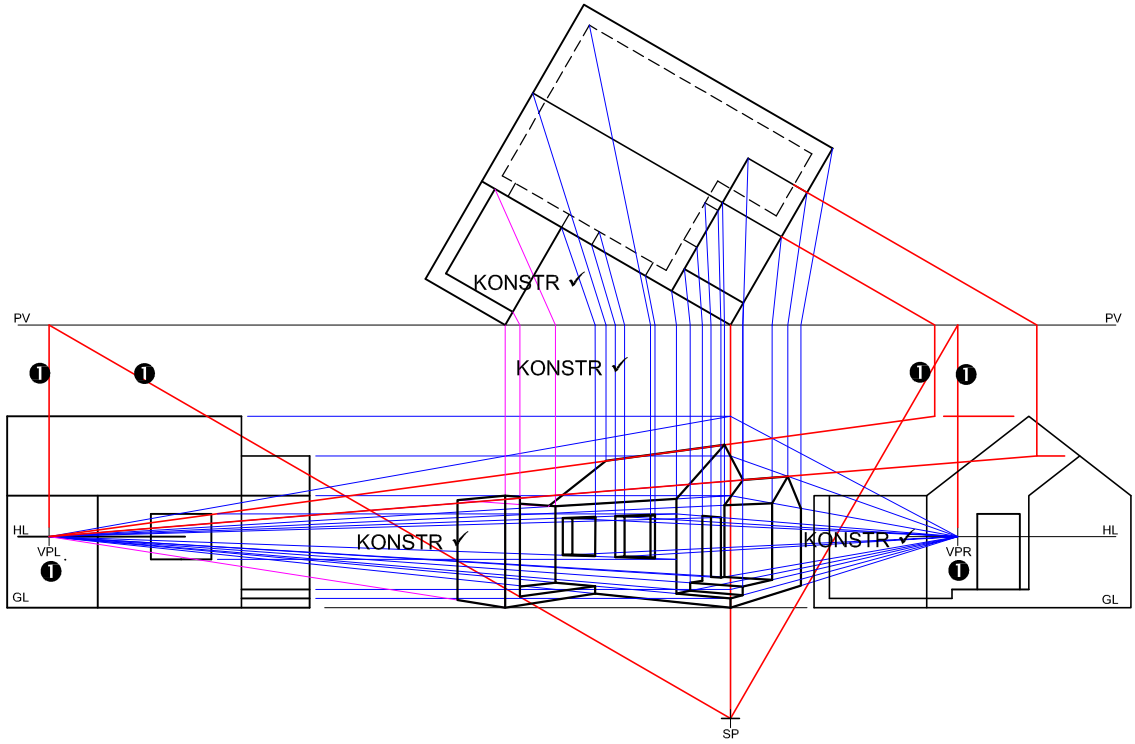
NOTA:
ALLE ERKENDE METODES OM DIE WARE LENGTE TE BEPAAL WORD AANVAAR.

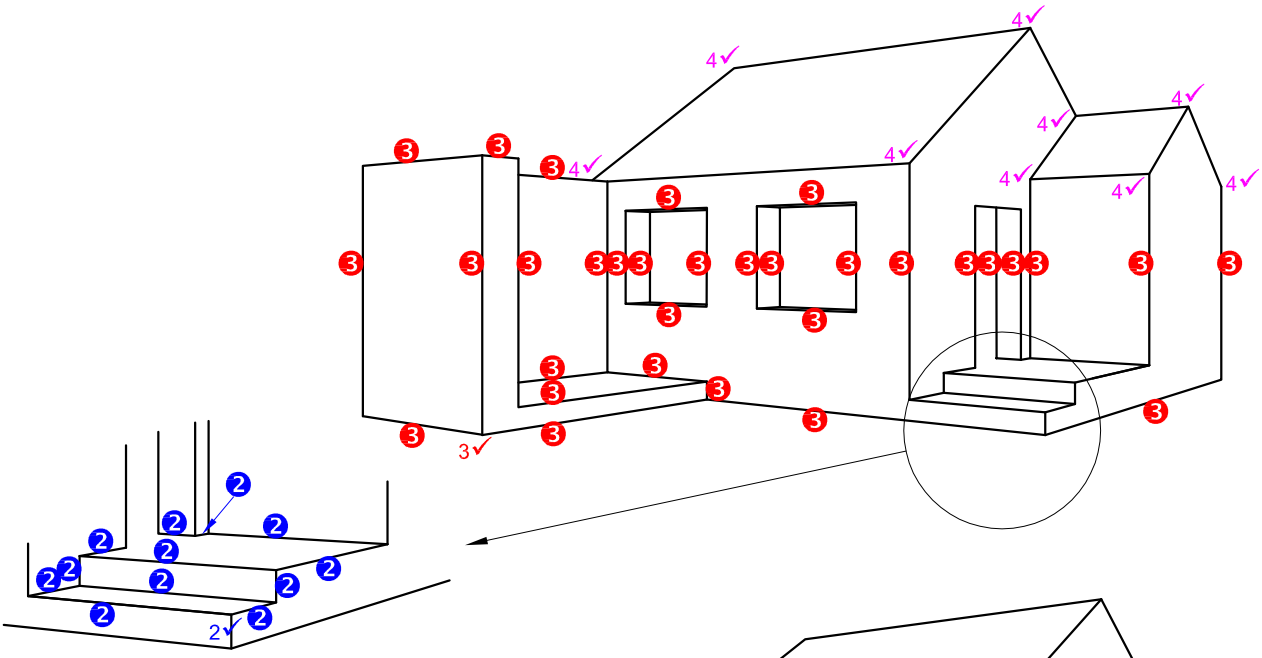
WARELENGTE-ASSESSERING
5 x LYNE = 5
5 x METODE = 5
10



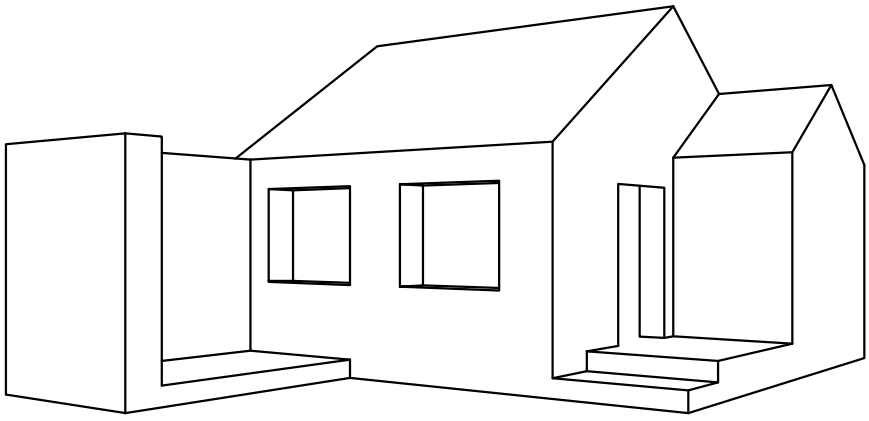
ASSESSERINGSKRITERIA		
1	VOORAANSIG + BOAANSIG	11
2	WARELENGTE-METODE	10
3	ONTWIKKELING	13
	TOTAAL	**34**

VRAESTEL 1 VRAAG 2
GRAAD 12
Feb.-Mrt. 2012
MEMORANDUM





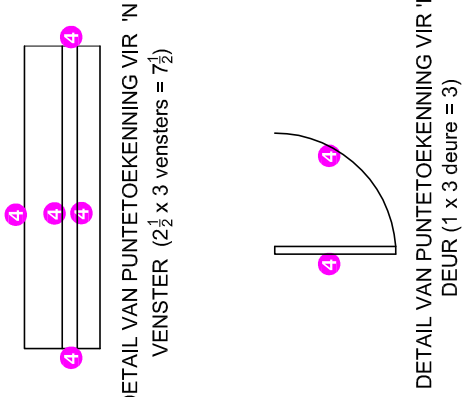
DETAIL VAN
PUNTETOEKENNING VIR
DIE TRAPPE

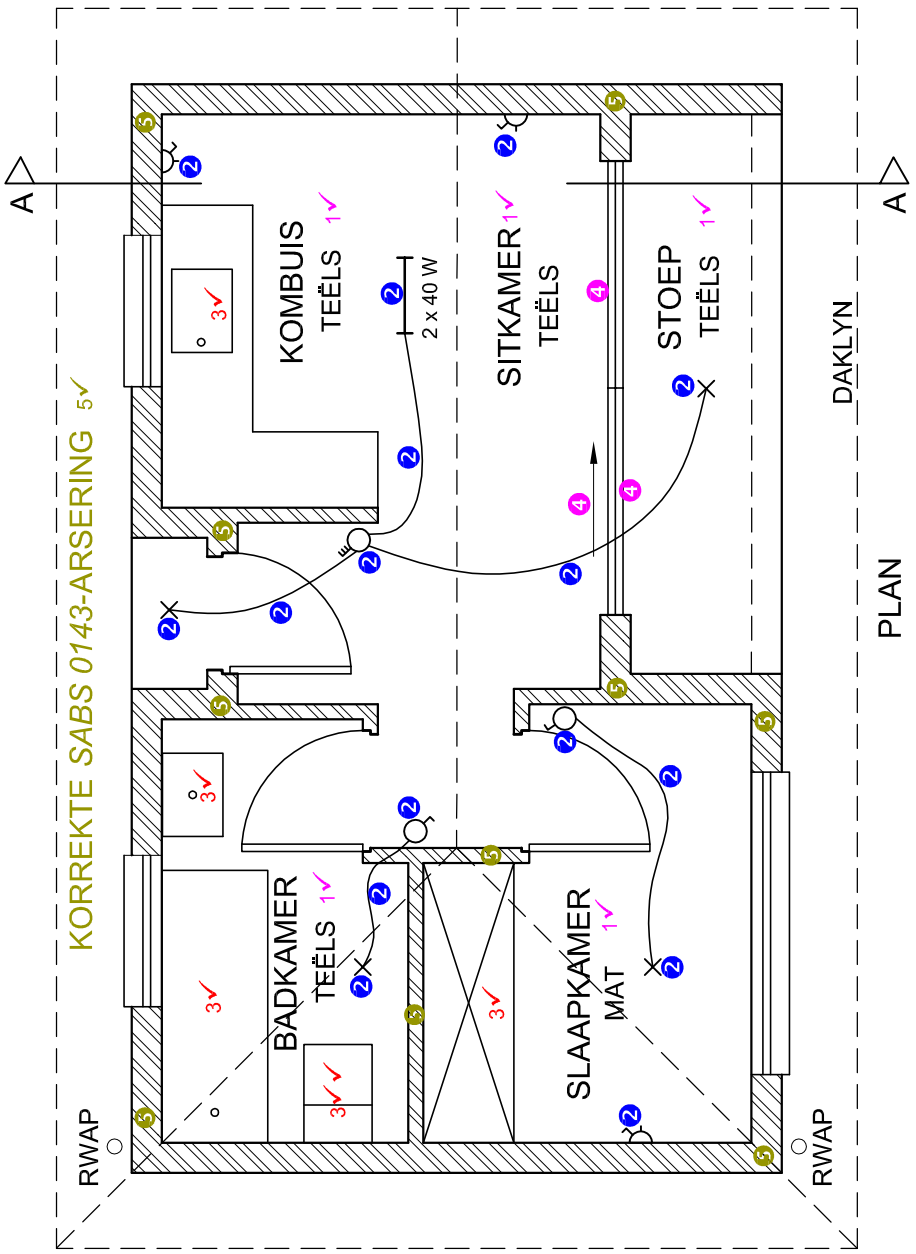


ASSESSERINGSKRITERIA	
KONSTRUKSIES + VP'e	7
TRAPPE	7
MURE + DEUR + VENSTERS	17
DAK	9
TOTAAL	**40**

VRAESTEL 1 VRAAG 3
GRAAD 12
Feb.-Mrt. 2012
MEMORANDUM

ASSESSERINGSKRITERIA VLOERPLAN	
1 BYSKRIFTE	5
2 ELEKTRIES	8
3 TOEBEHORE	6
4 DEURE + VENSTERS	12
5 ARSERING	6
SUBTOTAAL	37

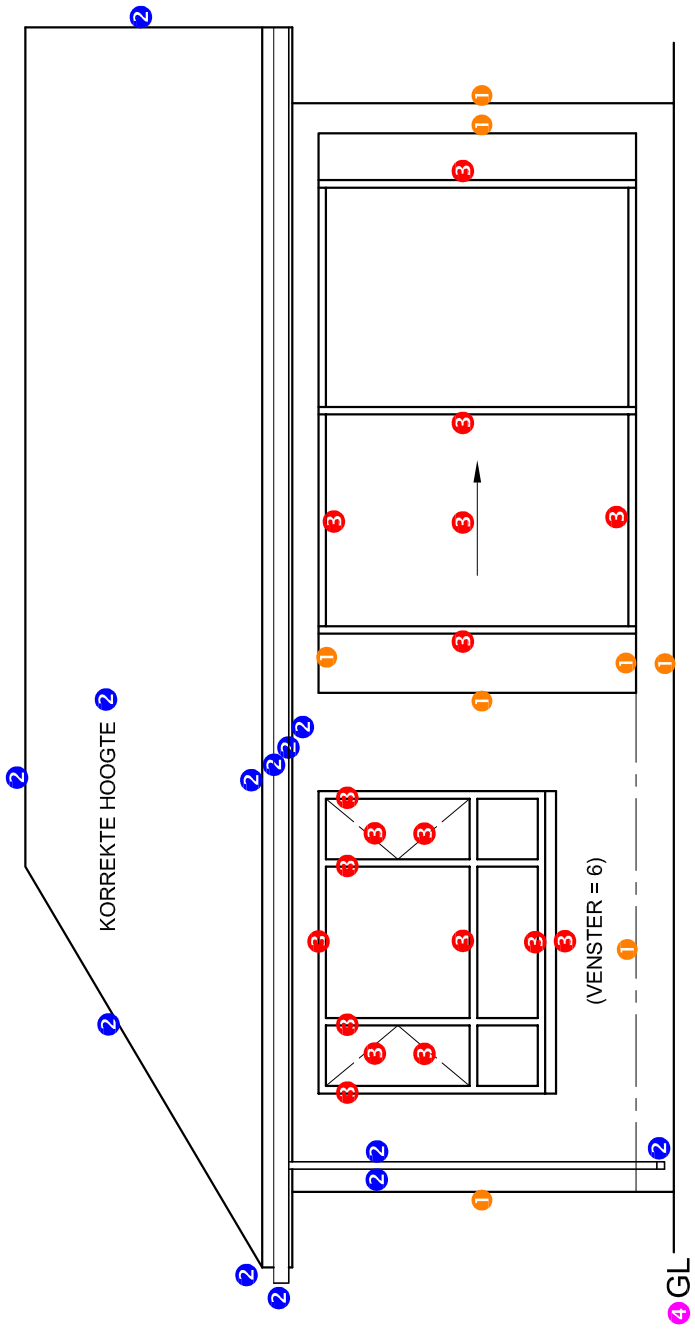




PLAN
SKAAL 1 : 50

VRAESTEL 1 VRAAG 4
GRAAD 12
Feb.-Mrt. 2012
MEMORANDUM

ASSESSERINGSKRITERIA		
NOORD-OOS-AANSIG		4
1	MURE + VVV	$6\frac{1}{2}$
2	DAK + GEUT + RWAP	9
3	VENSTERS + SKUIFDEUR	$1\frac{1}{2}$
4	BYSKRIFTE	21
	SUBTOTAAL	



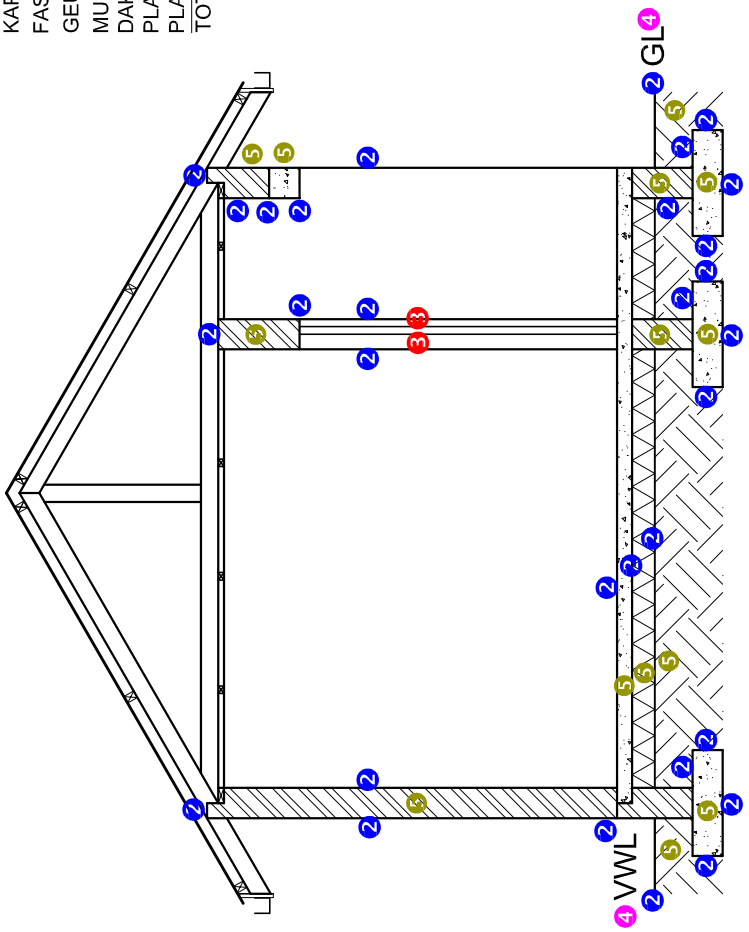
NOORD-OOS-AANSIG 4✓

VRAESTEL 1 VRAAG 4
GRAAD 12
Feb.-Mrt. 2012
MEMORANDUM

ASSESSERINGSKRITERIA		
DEURSNEEAANSIG		13
1	DAK	
2	MURE + VLOER + FONDASIES	$15\frac{1}{2}$
3	SKUIFDEUR	1
4	BYSKRIFTE	$1\frac{1}{2}$
5	ARSERING	7
	SUBTOTAAL	**38**

PUNTETOEKENNING

KORREKTE HELLING	1
DAKPLAAT	1
KAPLATTE	2
FASSIEBORD (2 x $\frac{1}{2}$)	1
GEUT (2 x $\frac{1}{2}$)	1
MUURPLAAT (2 x $\frac{1}{2}$)	1
DAKKAP	4
PLAFONLATTE	1
PLAFON	1
TOTAAL	13



SNIT A-A

VRAESTEL 1 VRAAG 4
GRAAD 12
Feb.-Mrt. 2012
MEMORANDUM

Kopiereg voorbehou

basic education

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REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1

FEBRUARY/MARCH 2012

MEMORANDUM

MARKS: 100

This memorandum consists of 7 pages.

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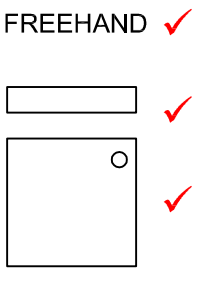
ANSWERS

1	FOUNDATION	6		10
	DAMP-PROOF COURSE	9		
	GROUND LEVEL	7		
	INTERNAL WALL	1		
	CONCRETE SLAB	3		
	COMPACTED HARDCORE	4		
	UNDISTURBED EARTH	5		
	SCREED	2		
	PLASTER	10		
	FINISHED FLOOR LEVEL	8		
2	Q1P1-SUP-2012			1
3	ZAPPY PRINTERS			1
4	5 m or 5000 mm			1
5	STRELITZIA ROAD			1
6	HEIGHT			1
7	INDIGENOUS TREES			1
8	ROAD/DRIVEWAY			1
9	SEPTIC TANK			1
10	PARKING			1
11	6			1
12	COBBLE STONES			1
13	469 m [calculation 1, answer 1, metres 1]			3
14				3
15	106 m² [calculation 1, answer 1, metres² 1]			3

TOTAL: 30

14



PAPER 1 QUESTION 1
GRADE 12
Feb.-Mar. 2012
MEMORANDUM

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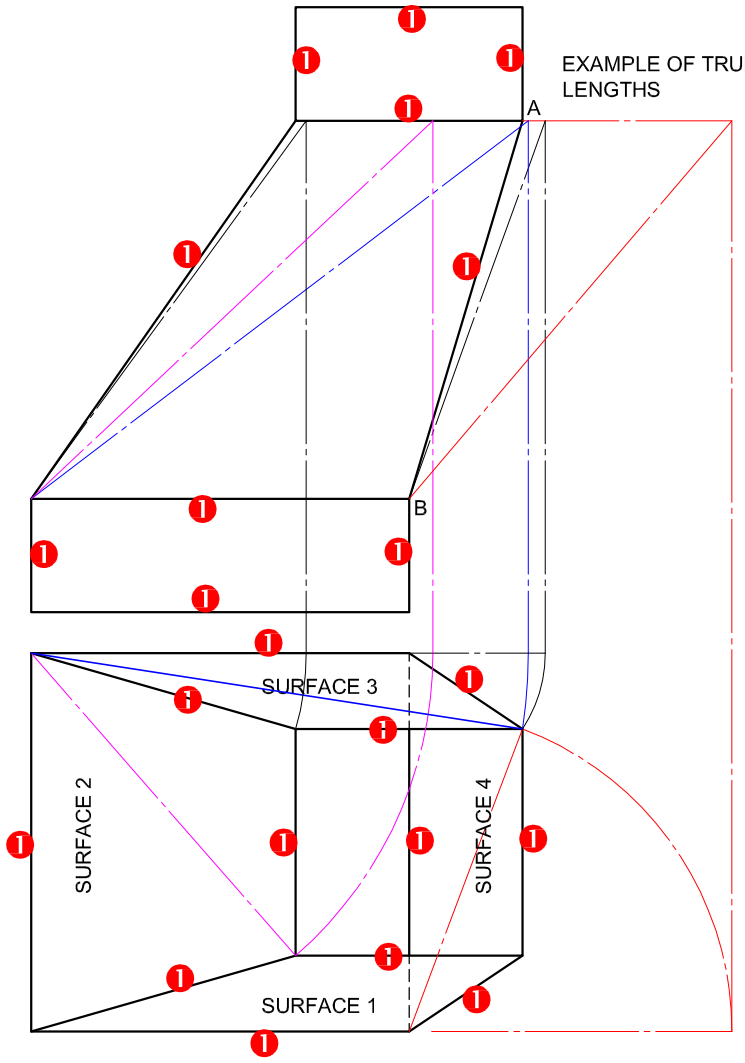
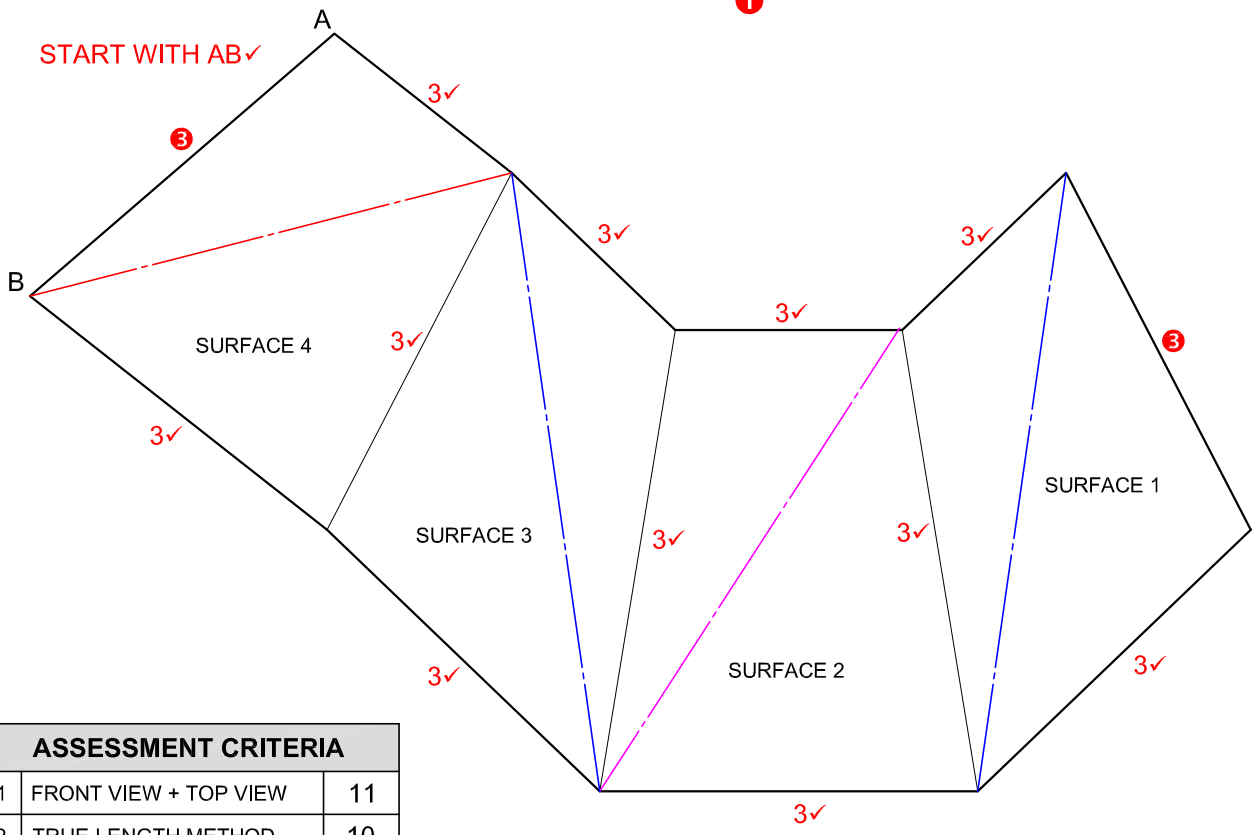
EXAMPLE OF TRUE LENGTHS



NOTE:
ALL RECOGNISED METHODS OF DETERMINING THE TRUE LENGTH ARE ACCEPTABLE.

TRUE LENGTH ASSESSMENT
5 x LINES = 5
5 x METHOD = 5
10

START WITH AB✓



ASSESSMENT CRITERIA		
1	FRONT VIEW + TOP VIEW	11
2	TRUE LENGTH METHOD	10
3	DEVELOPMENT	13
	TOTAL	**34**

PAPER 1 QUESTION 2
GRADE 12
Feb.-Mar. 2012
MEMORANDUM

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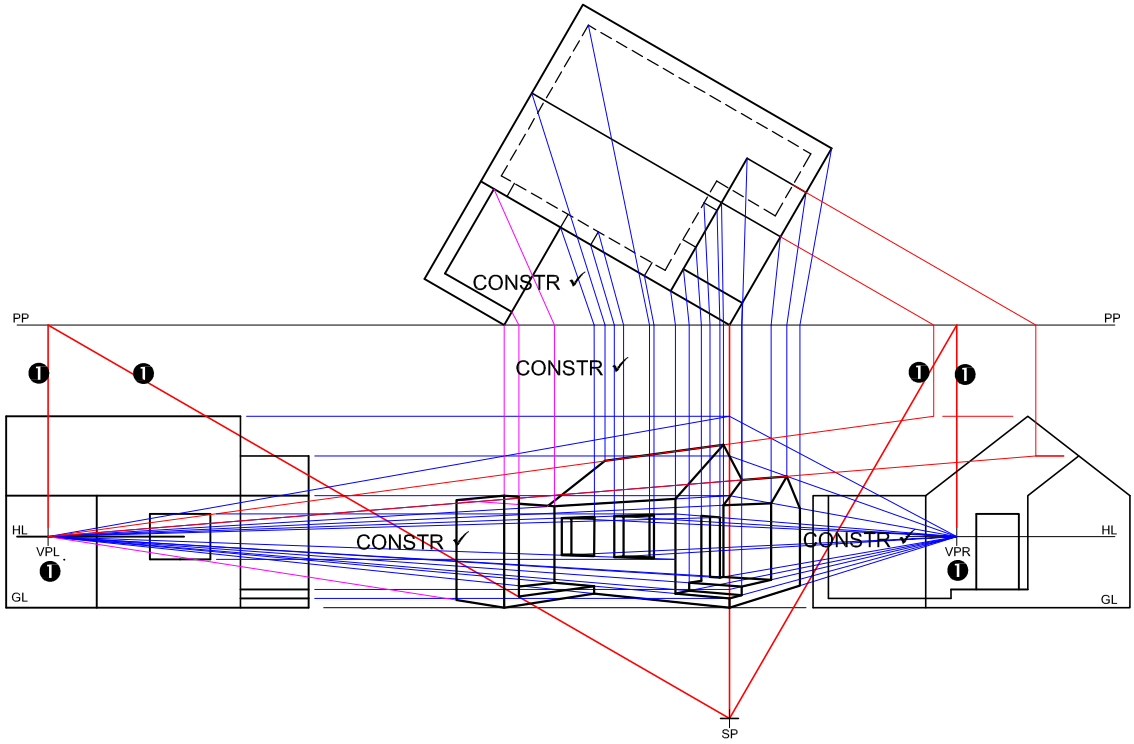
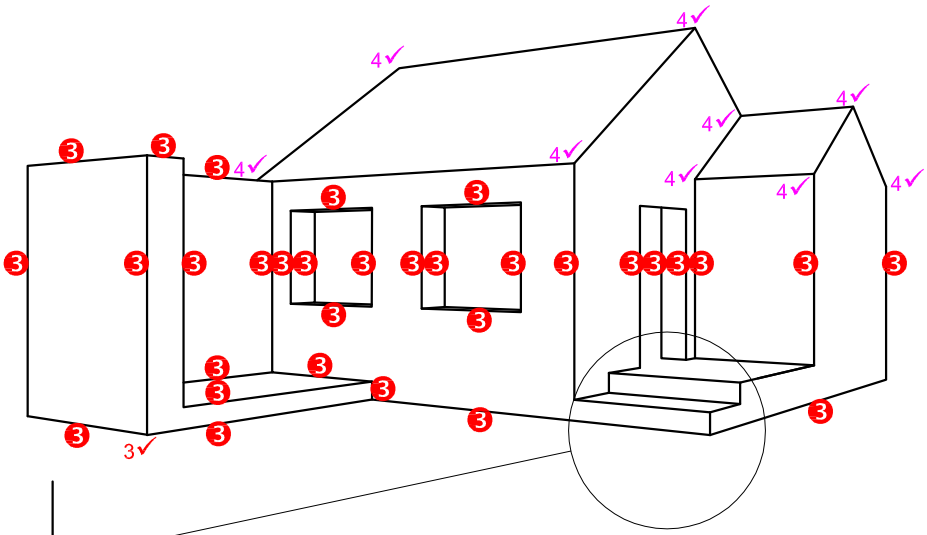
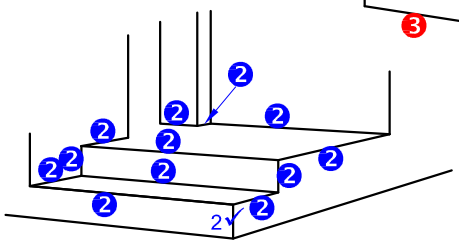
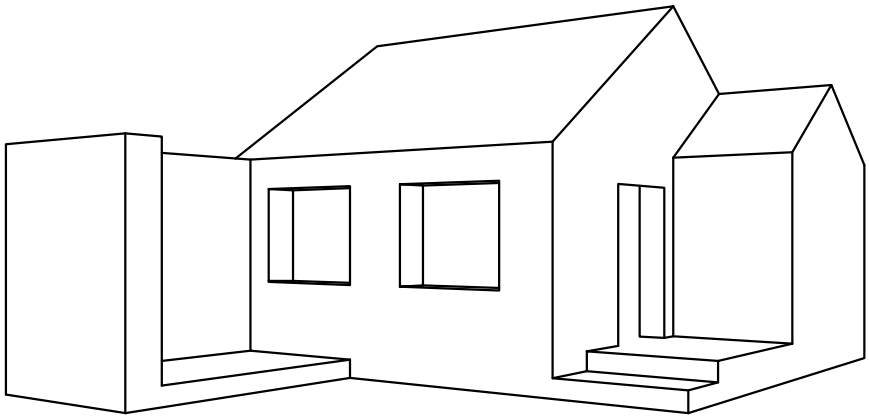






DETAIL OF MARK ALLOCATION FOR STAIRS



ASSESSMENT CRITERIA		
1	CONSTRUCTION + VPs	7
2	STAIRS	7
3	WALLS + DOOR + WINDOW	17
4	ROOF	9
	TOTAL	**40**

PAPER 1 QUESTION 3
GRADE 12
Feb.-Mar. 2012
MEMORANDUM

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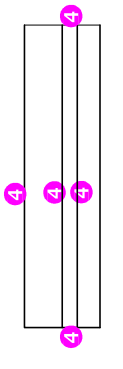
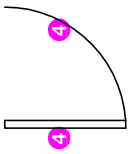
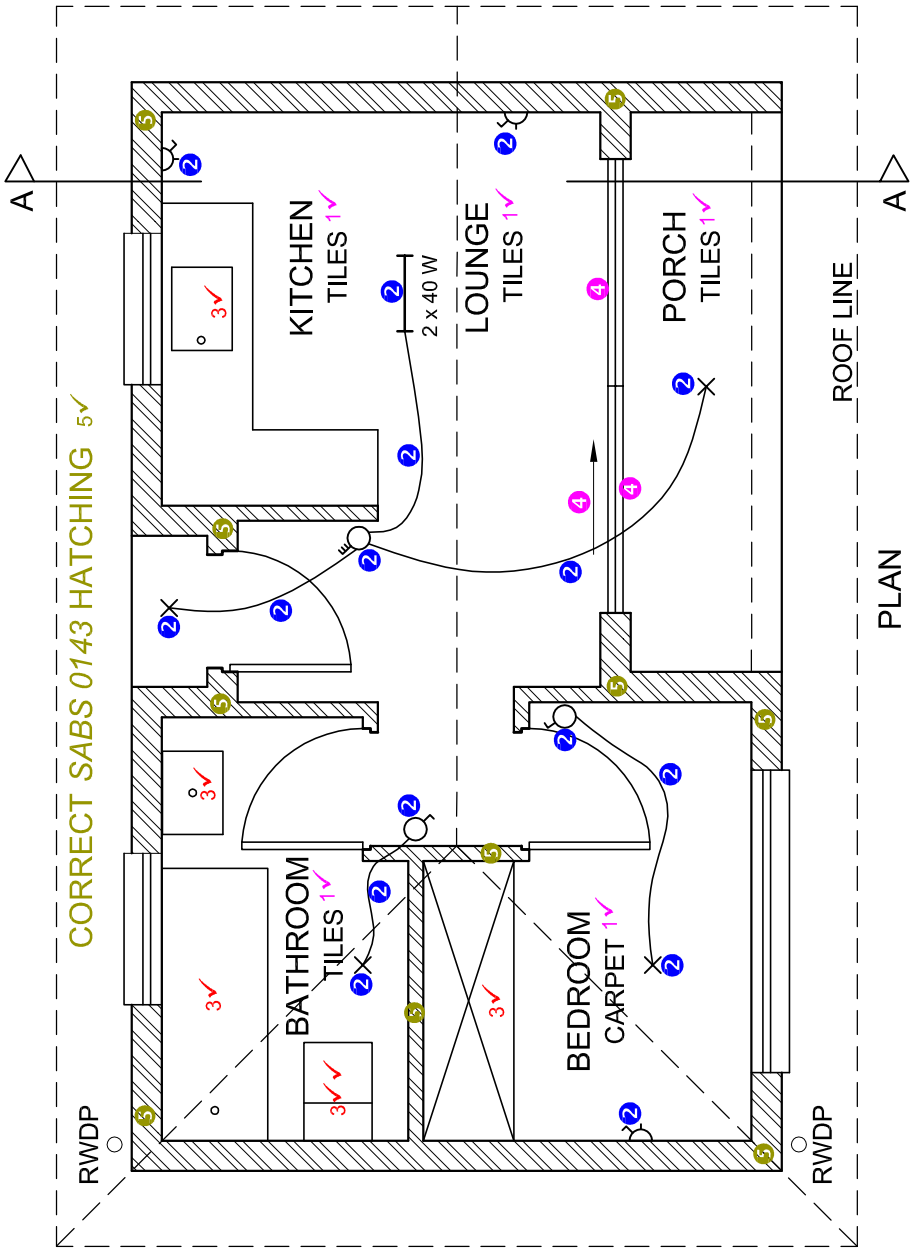
ASSESSMENT CRITERIA		
FLOOR PLAN		
1	LABELS	5
2	ELECTRICAL	8
3	FITTINGS	6
4	DOORS + WINDOWS	12
5	HATCHING	6
	SUBTOTAL	37



DETAIL OF MARK ALLOCATION FOR A WINDOW ($2\frac{1}{2}$ x 3 windows = $7\frac{1}{2}$)



DETAIL OF MARK ALLOCATION FOR A DOOR (1 x 3 doors = 3)



PLAN
SCALE 1 : 50

PAPER 1 QUESTION 4
GRADE 12
Feb.-Mar. 2012
MEMORANDUM

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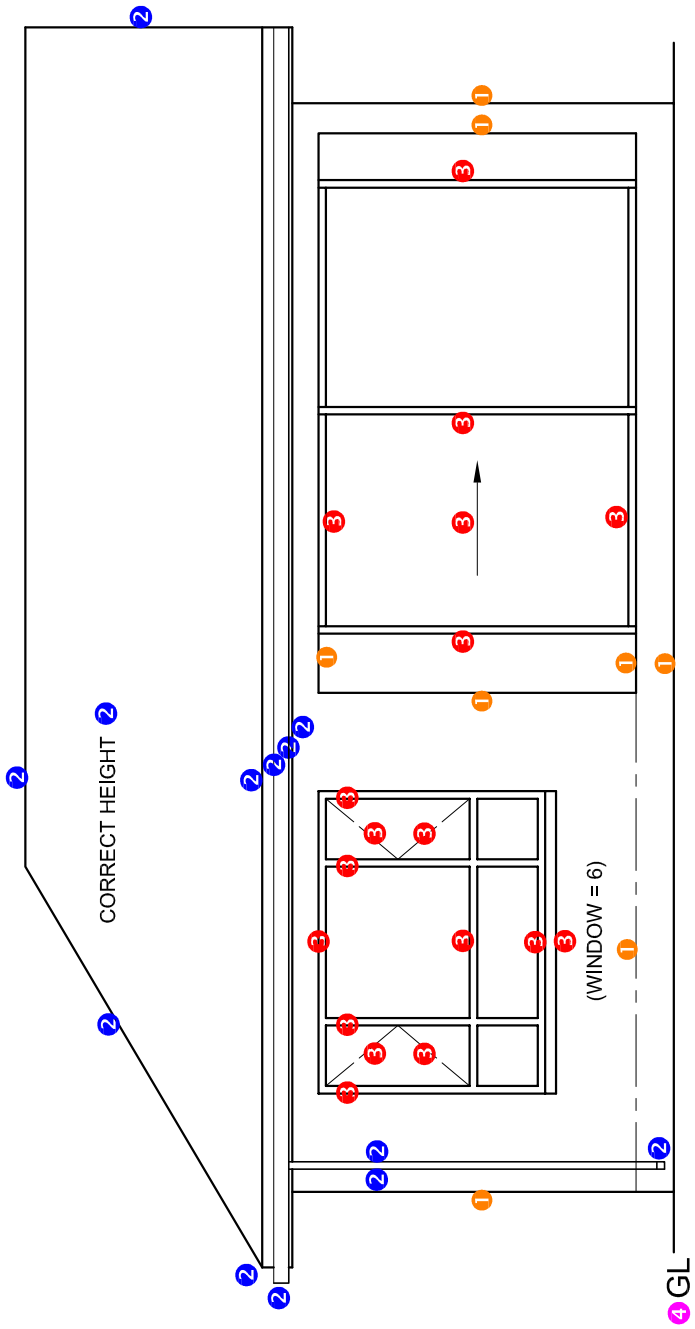
ASSESSMENT CRITERIA	NORTH-EAST ELEVATION		
1	WALLS + FFL	4	
2	ROOF + GUTTER + RWDP	$6\frac{1}{2}$	
3	WINDOWS + SLIDING DOOR	9	
4	LABELS	$1\frac{1}{2}$	
	SUBTOTAL	21	



NORTH-EAST ELEVATION 4✓

PAPER 1 QUESTION 4
GRADE 12
Feb.-Mar. 2012
MEMORANDUM

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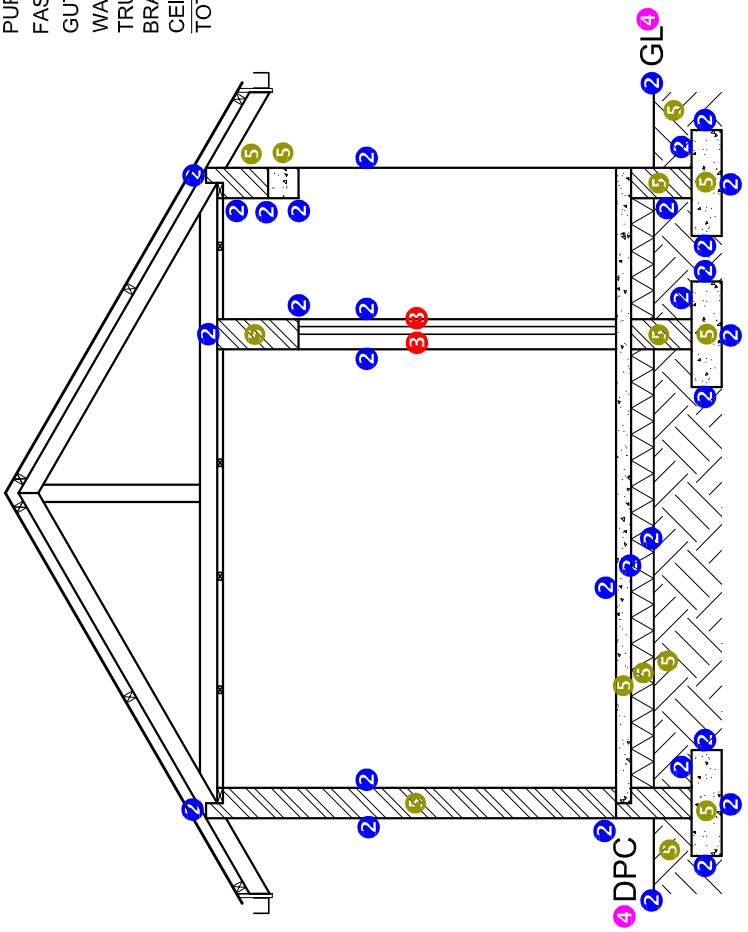
ASSESSMENT CRITERIA		
SECTIONAL ELEVATION		
1	ROOF	13
2	WALLS + FLOOR + FOUNDATIONS	$15\frac{1}{2}$
3	SLIDING DOOR	1
4	LABELS	$1\frac{1}{2}$
5	HATCHING	7
	SUBTOTAL	38

MARK ALLOCATION	
CORRECT ANGLE	1
ROOF SHEET	1
PURLINS	2
FASCIA BOARD ($2 \times \frac{1}{2}$)	1
GUTTER ($2 \times \frac{1}{2}$)	1
WALL PLATE ($2 \times \frac{1}{2}$)	1
TRUSS	4
BRANDERING	1
CEILING	1
TOTAL	13



SECTIONAL A-A

PAPER 1 QUESTION 4
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