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# basic education

Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

## **NATIONAL SENIOR CERTIFICATE**

**GRADE 12**

**ENGINEERING GRAPHICS AND DESIGN P1**

**NOVEMBER 2014**

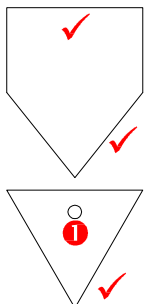
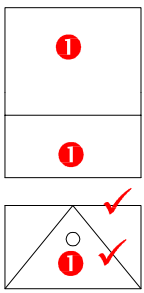
**MEMORANDUM**

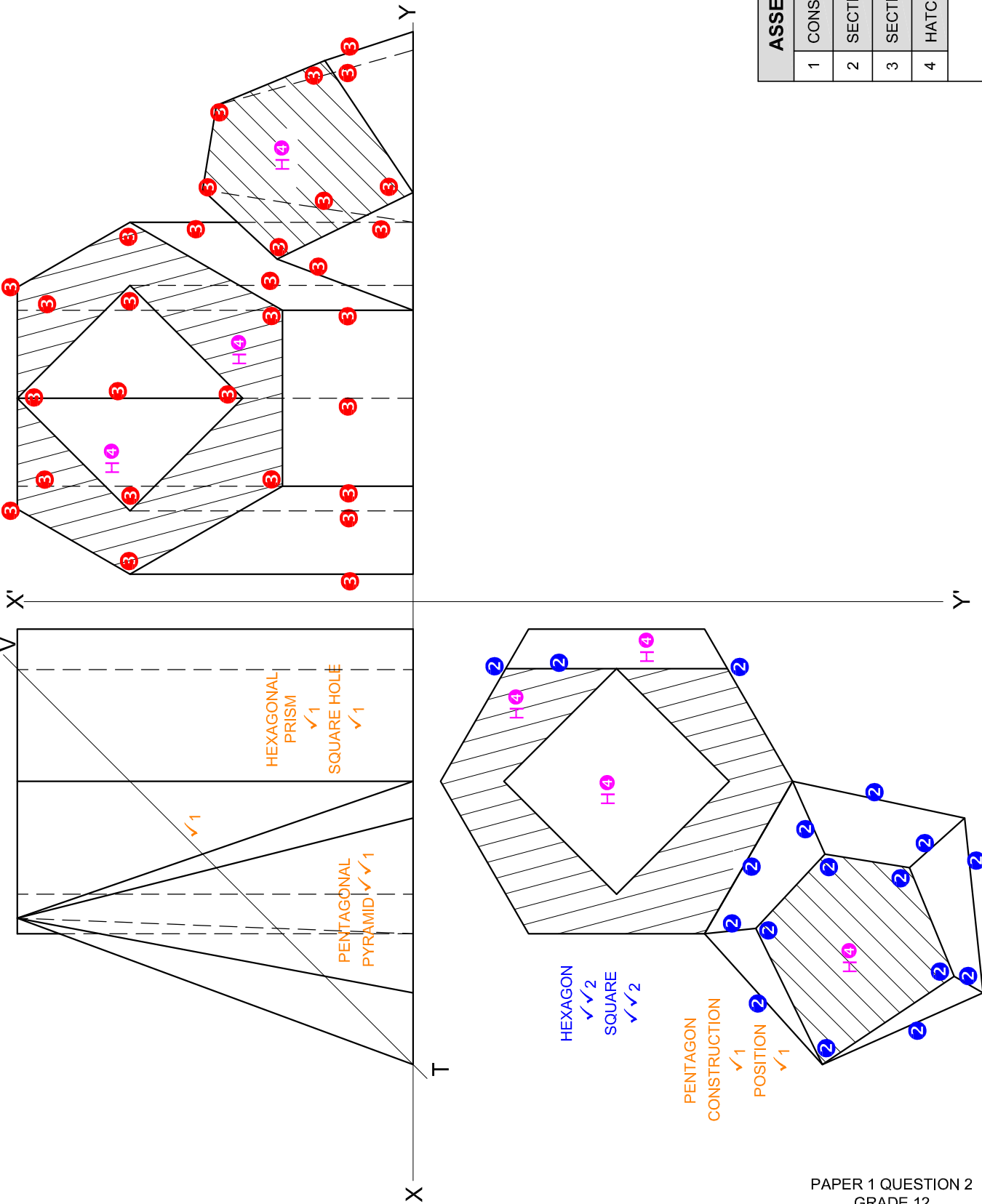
**MARKS: 100**

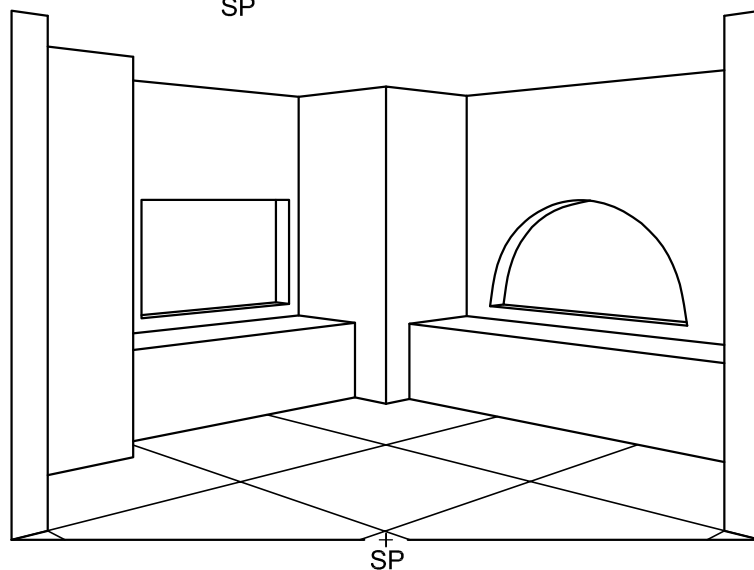
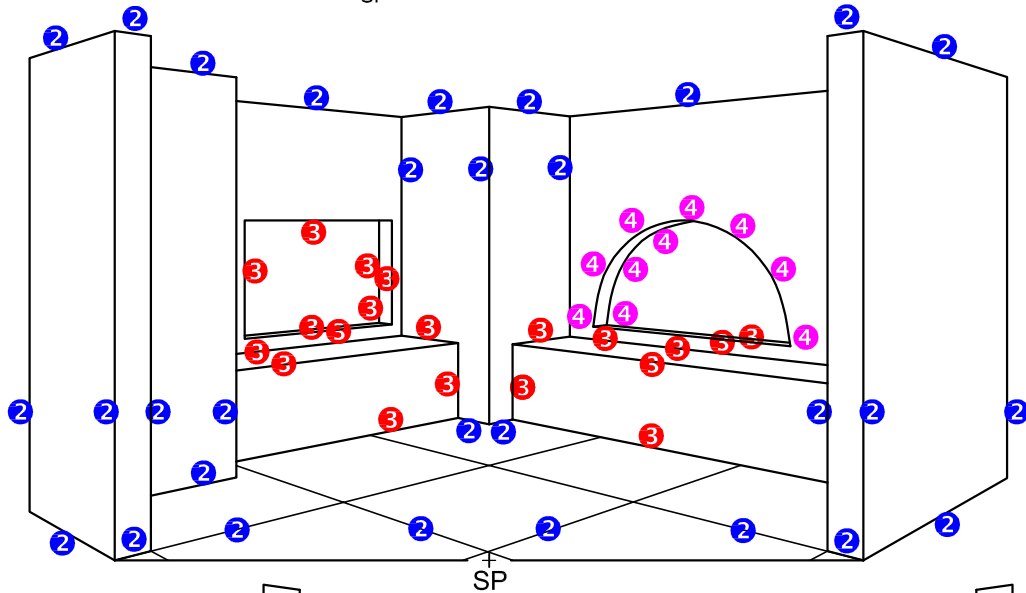
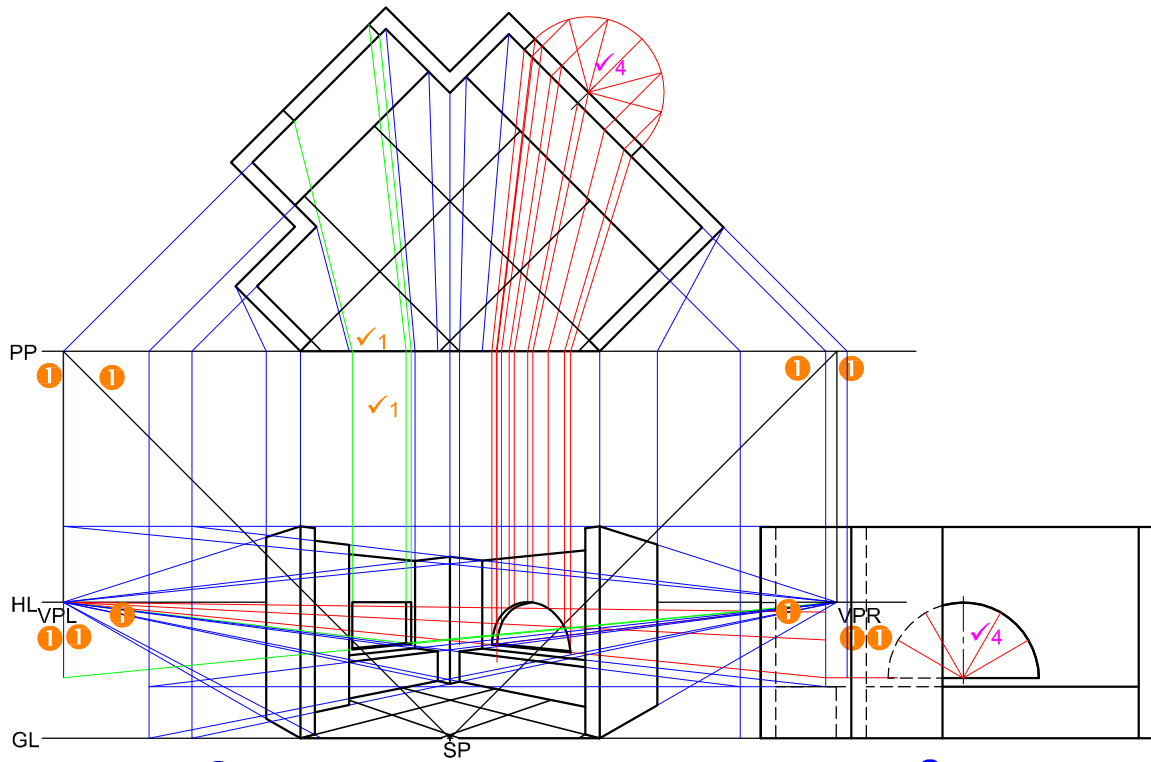
**This memorandum consists of 7 pages.**

	<b>ANSWERS</b>	
1	2014-08-05	1
2	VERIFY DIMENSIONS AND LEVELS	1
3	1 : 500	1
4	CHANGE ROAD	1
5	TAR	1
6	CONFERENCE CENTRE	1
7	YELLOW	1
8	BLUE	1
9	HEIGHT ABOVE SEA LEVEL/CORNER HEIGHT	1
10	MAN HOLE	1
11	BOUNDARY LINE	1
12	PAVEMENT	1
13	CONTROL POINT/GUARD HOUSE	1
14	COMPACTED HARD CORE	1
15	RIDGE ROAD	2
16	24	2
17	75,128	2
18	129,6 [calculation 1, answer 1, converted to metres 1]	3
19	865,67 m <sup>2</sup> [calculation 1, answer 1, metres <sup>2</sup> 1]	3
20	(See below)	4

TOTAL: 30

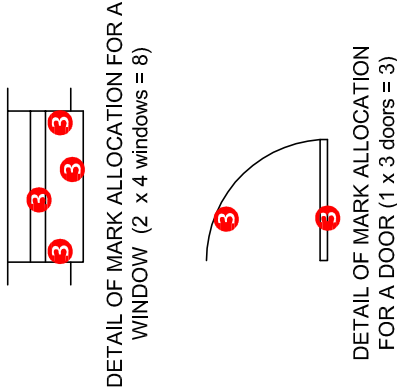
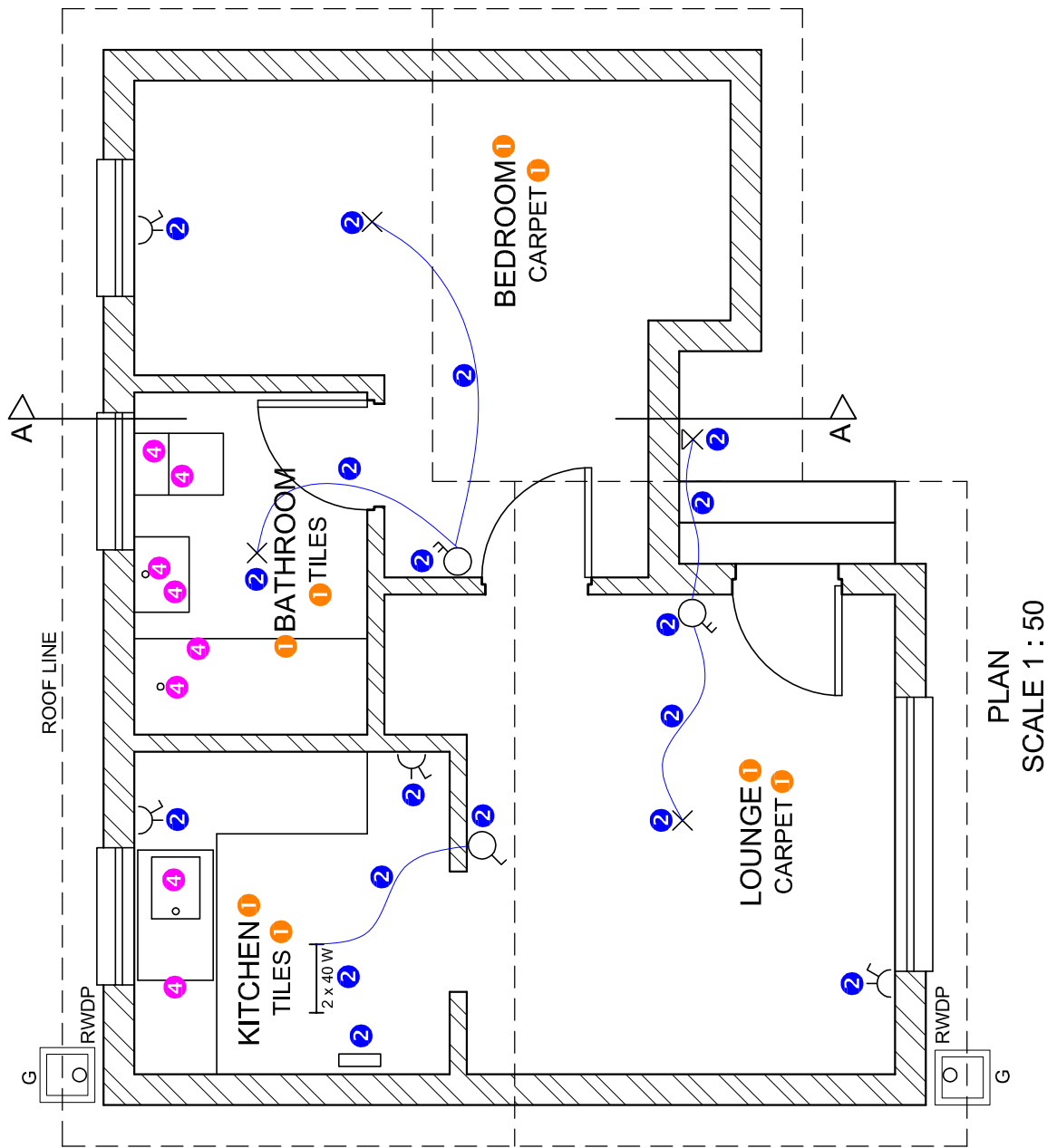
<p>20</p> <p><b>FREEHAND ①</b></p> 	<p>20</p> <p><b>FREEHAND ①</b></p>  <p>ALTERNATIVE ANSWER</p>
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**ASSESSMENT CRITERIA**

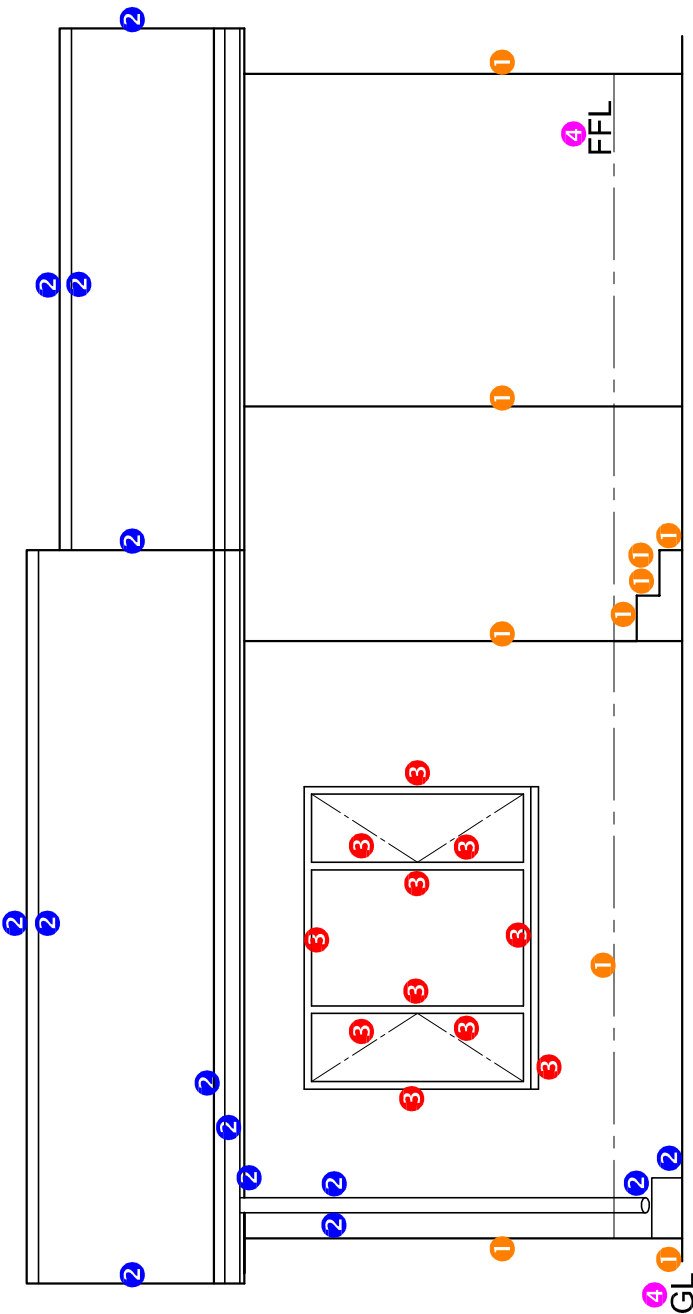
1	CONSTRUCTION + VPs	7
2	WALLS + TILES	15
3	OPENINGS + SEATING	10
4	SEMI-CIRCLE	7
<b>TOTAL</b>		<b>39</b>

PAPER 1 QUESTION 3  
GRADE 12  
NOVEMBER 2014  
MEMORANDUM



4 HATCHING ALLOCATION  
SANS COMPLIANT (TYPE) 2  
HATCHING CORRECTLY APPLIED 2  
TOTAL 4

ASSESSMENT CRITERIA	
PLAN	
1	4
2	9
3	11
4	4
5	4
SUBTOTAL	
32	

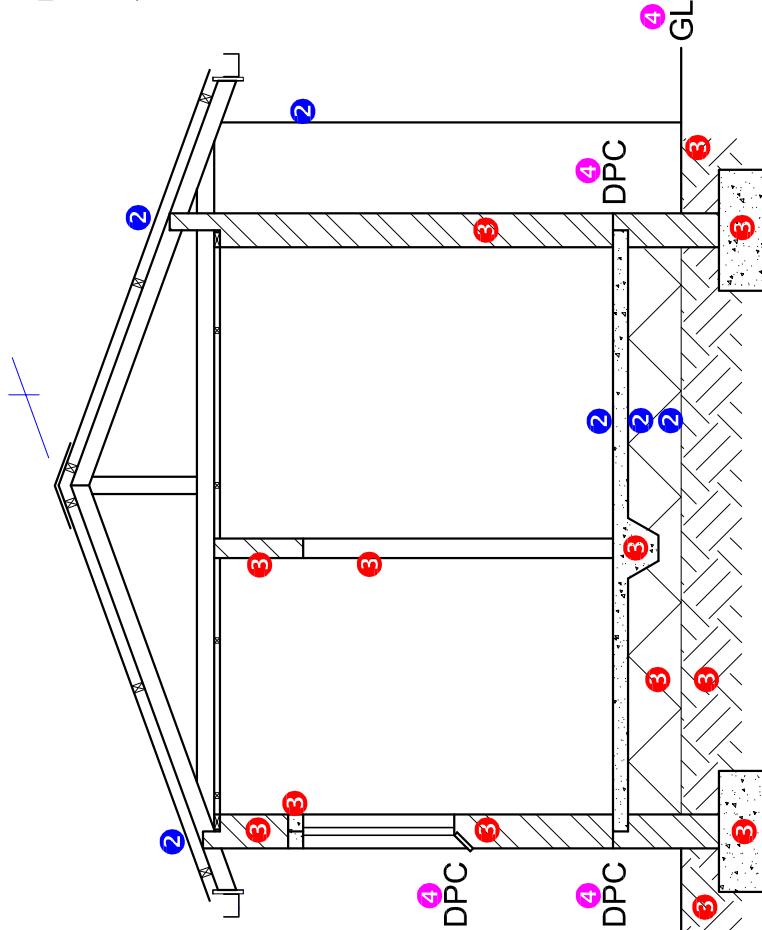


NORTH ELEVATION

ASSESSMENT CRITERIA	
NORTH ELEVATION	
1	WALLS + FFL5
2	ROOF + FACIA BOARD + GUTTER + RWDP7
3	WINDOW5½
4	LABELS1½
SUBTOTAL19	

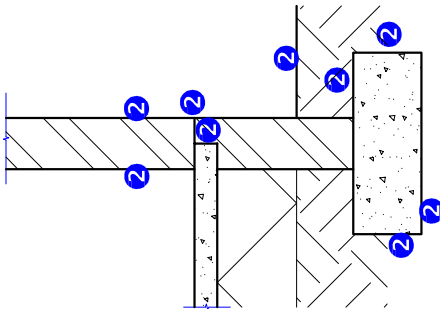
ROOF MARK ALLOCATION (1)

CORRECT ANGLE	1
ROOF SHEET	1
ROOF CAP	$\frac{1}{2}$
PURLINS	2
TRUSS ( $7 \times \frac{1}{2}$ )	$3\frac{1}{2}$
WALL PLATE ( $2 \times \frac{1}{2}$ )	1
FASCIA BOARD ( $2 \times \frac{1}{2}$ )	1
GUTTER	2
BRANDERING	2
CEILING BOARD	1
TOTAL	15

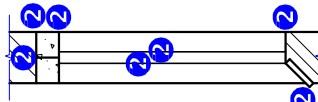


SECTION A-A

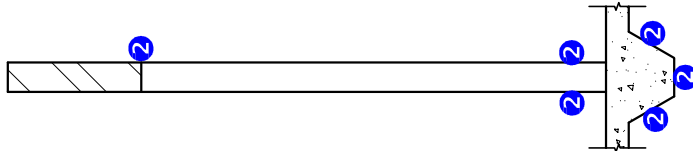
DETAIL OF THE MARK ALLOCATION  
FOR BOTH LOAD-BEARING WALLS  
( $9 \times \frac{1}{2}$ )  $\times 2 = 9$



DETAIL OF MARK ALLOCATION  
FOR THE WINDOW



DETAIL OF THE MARK  
ALLOCATION FOR INTERNAL  
WALL AND FOOTING



ASSESSMENT CRITERIA	
SECTIONAL ELEVATION A-A	
1	ROOF + FACIA BOARD + GUTTER + RWDP 15
2	WALLS + FLOOR + FOUNDATION 18
3	HATCHING $6\frac{1}{2}$
4	LABELS $2\frac{1}{2}$
SUBTOTAL 42	