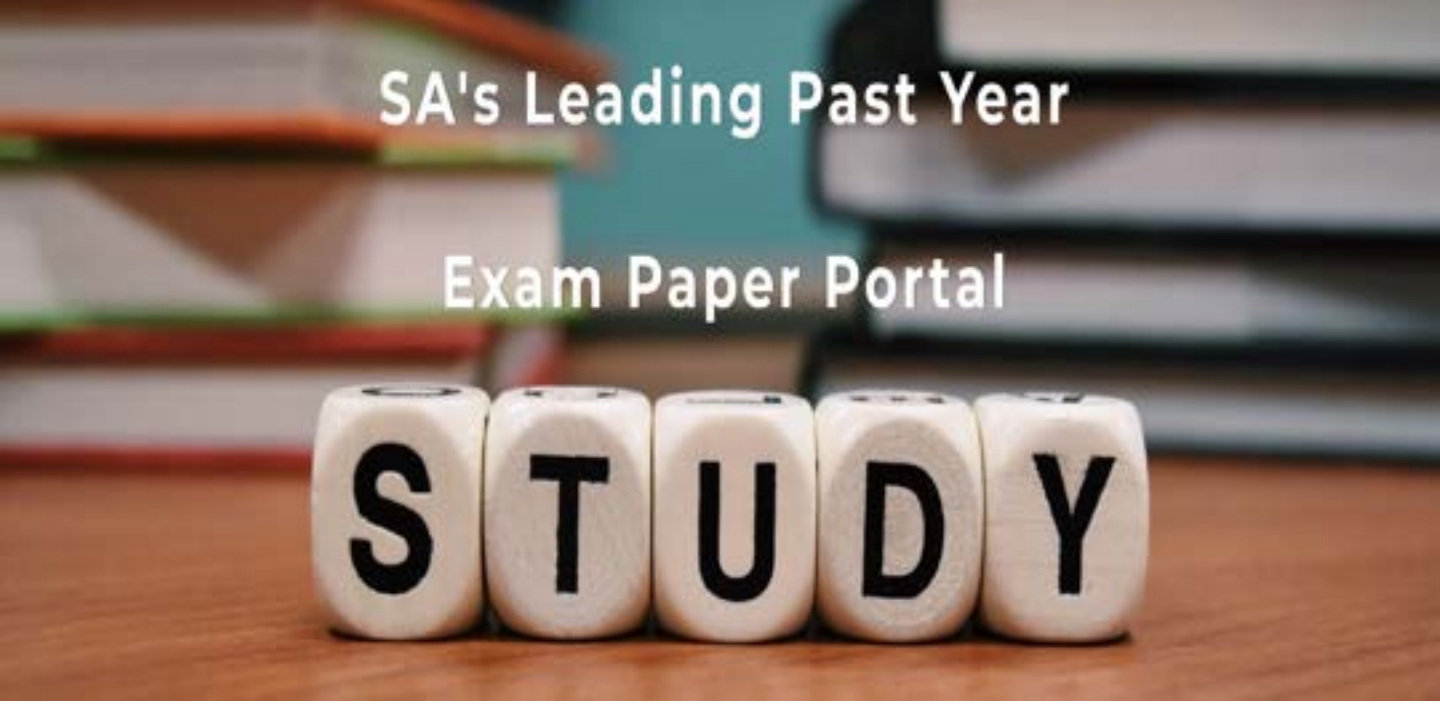

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GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1

FEBRUARY/MARCH 2013

MEMORANDUM

MARKS: 100

This memorandum consists of 7 pages.

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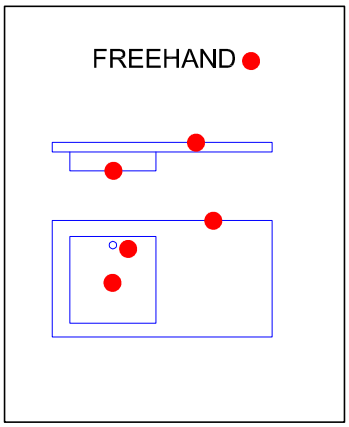
ANSWERS		
1	12-12-2012	1
2	THANDI	1
3	2	1
4	4 m / 4000	1
5	1 : 40	1
6	2,2 m or 2200	1
7	RED	1
8	2,75 m or 2750	1
9	SERVITUDE	1
10	GATE SWING	1
11	BUILDING LINE	1
12	SEWERAGE LINE	1
13	BOUNDARY LINE	1
14	WEST	2
15	C or 64,3	2
16	3,48 m or 3480	2
17	THE TREE OVER THE SEWERAGE LINE	2
18	134,761 m [calculation 1, answer 1, metre 1]	3
19	167,04 m² [calculation 1, answer 1, metre² 1]	3
20		3

TOTAL: 30



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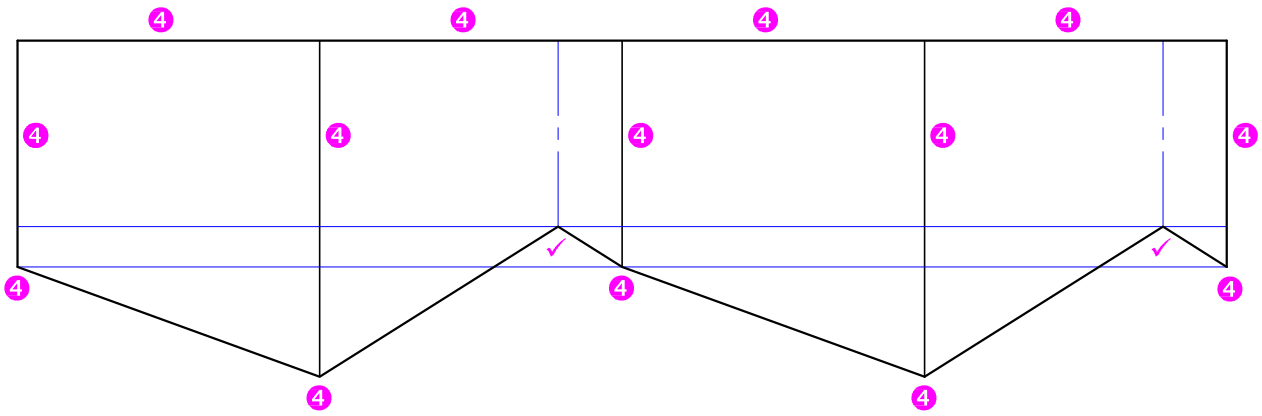

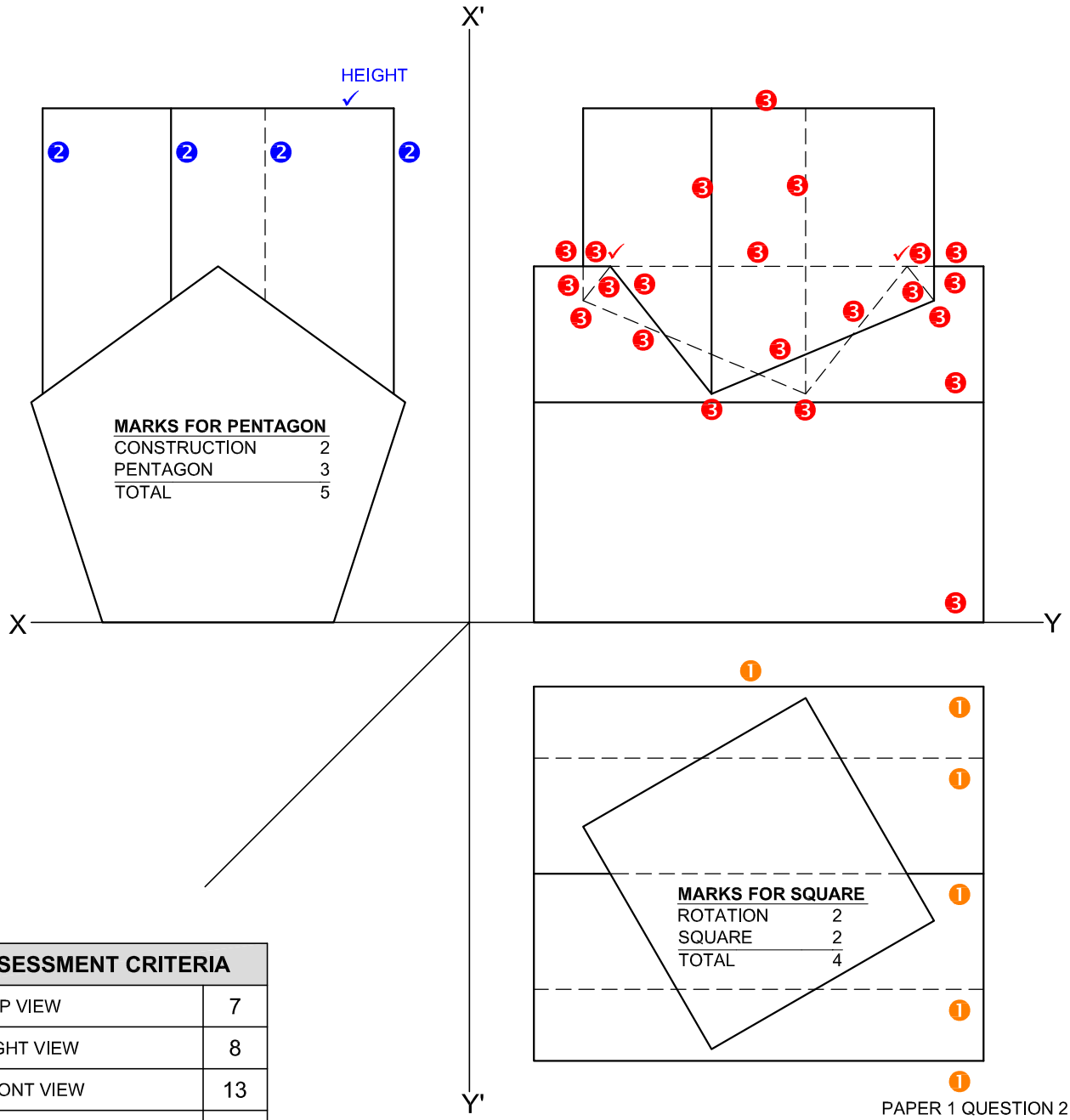

ASSESSMENT CRITERIA		
1	TOP VIEW	7
2	RIGHT VIEW	8
3	FRONT VIEW	13
4	DEVELOPMENT	9
TOTAL		**37**

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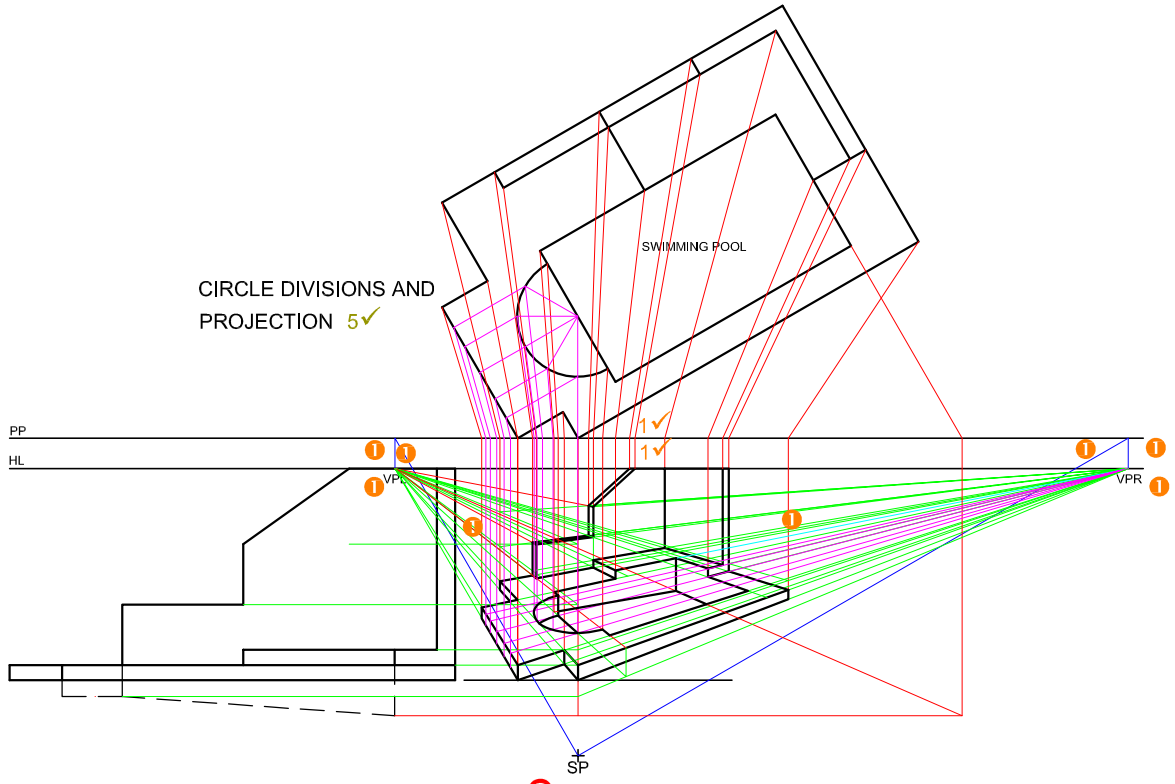
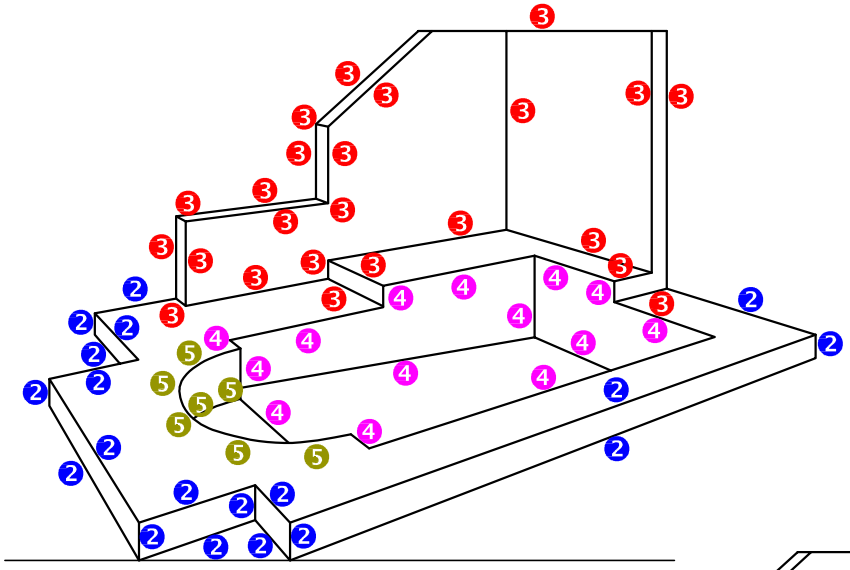
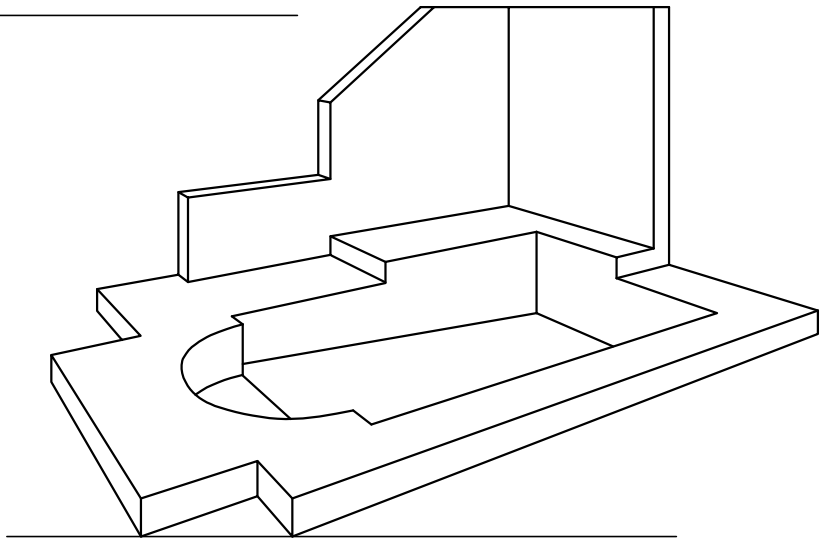




SP



ASSESSMENT CRITERIA		
1	CONSTRUCTION + VPs	6
2	SURROUND	9½
3	WALL + STEP	12
4	SWIMMING POOL	7
5	SEMI-CIRCLE	4½
TOTAL		**39**

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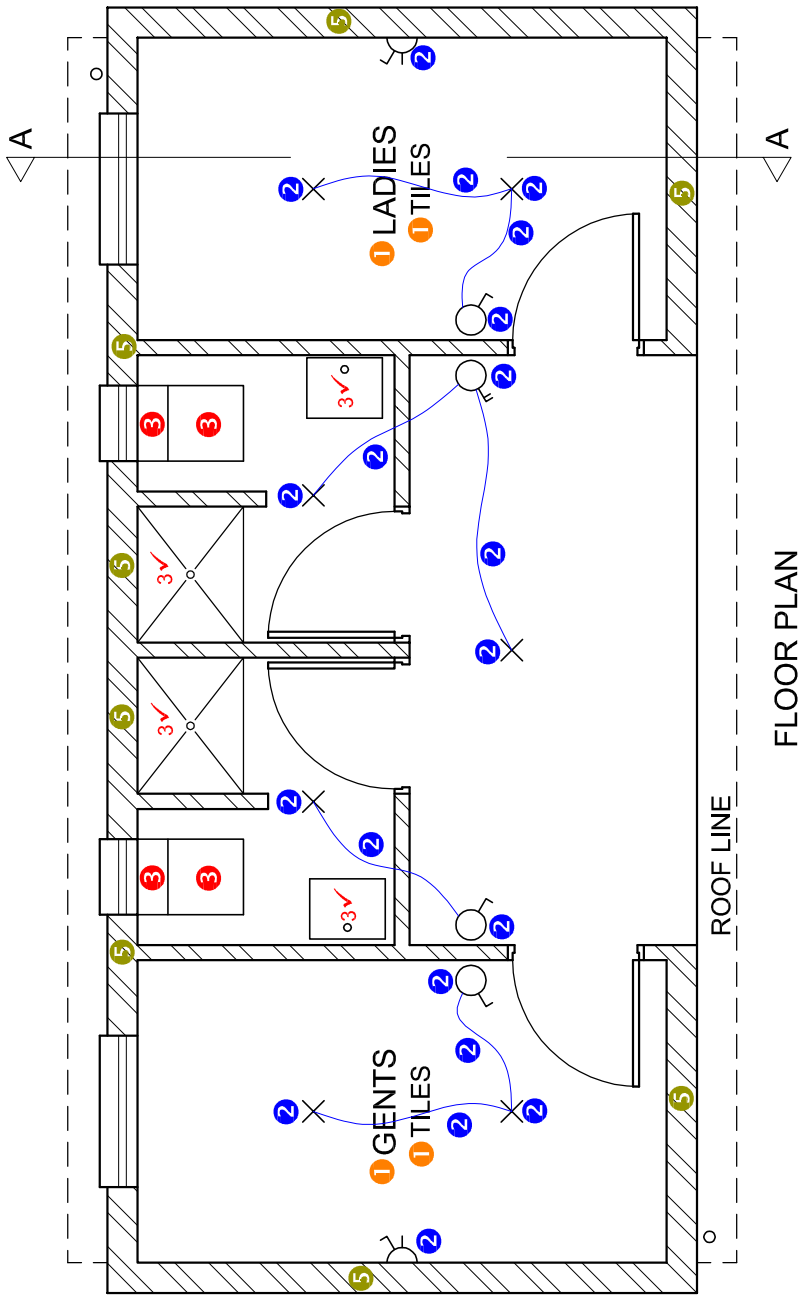
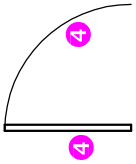
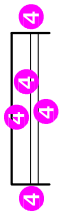
FLOOR PLAN		
1	LABELS	2
2	ELECTRICAL	10
3	FIXTURES	6
4	DOORS + WINDOWS	14
5	HATCHING	4
	SUBTOTAL	36



FLOOR PLAN
SCALE 1:50



DETAIL OF MARK ALLOCATION FOR A DOOR
(1 x 4 doors = 4)



DETAIL OF MARK ALLOCATION FOR A WINDOW
($2\frac{1}{2}$ x 4 windows = 10)

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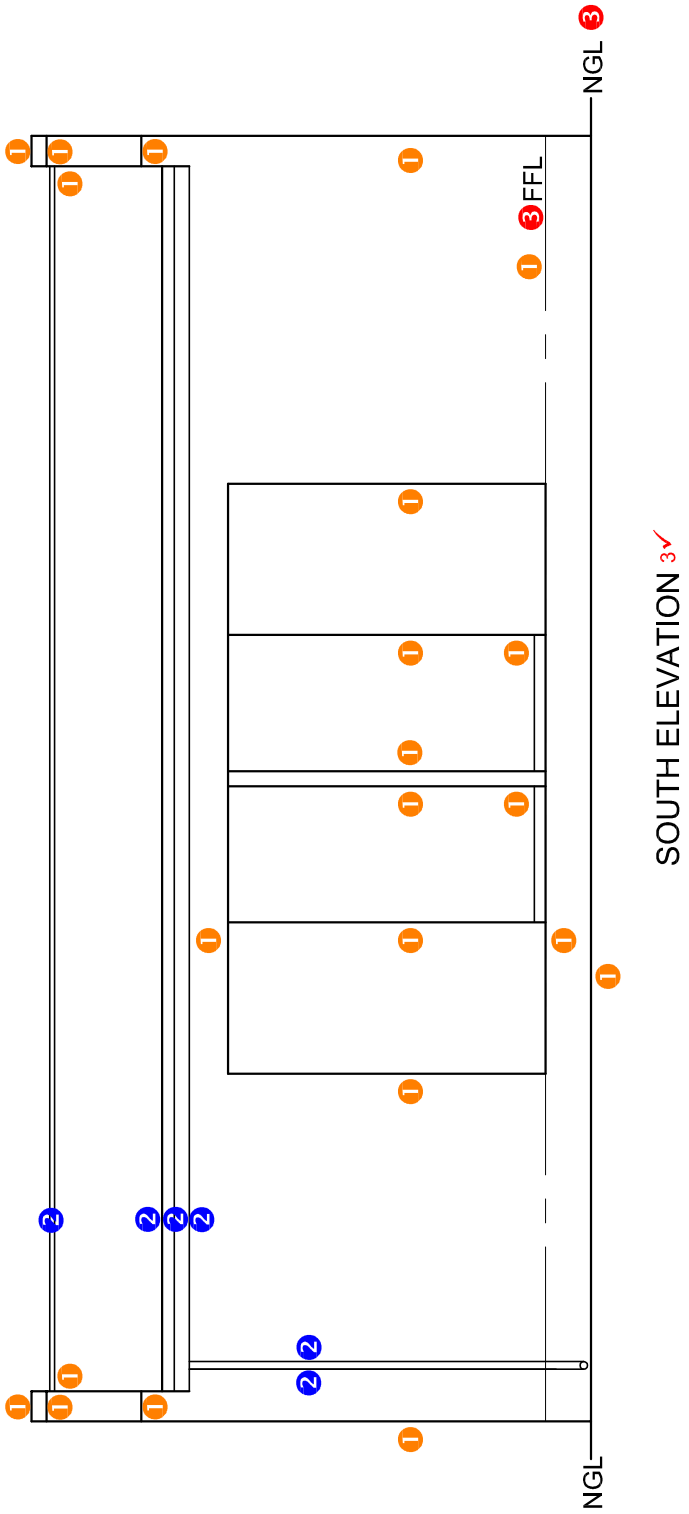
SOUTH ELEVATION				
	WALLS + FFL + DOOR + SH	ROOF + GUTTER + RWDP	LABELS	SUBTOTAL
1	11	3	2	16
2				
3				



SOUTH ELEVATION 3✓

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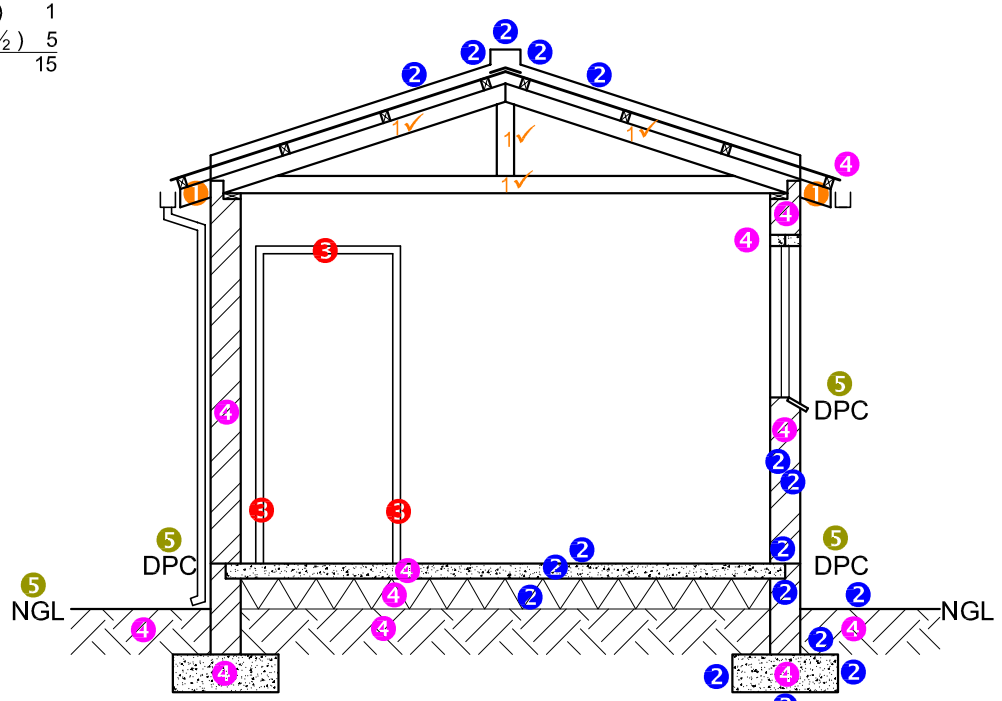
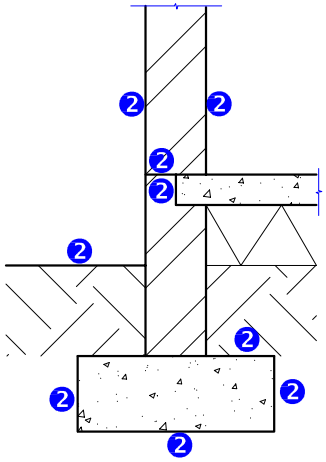
MARK ALLOCATION

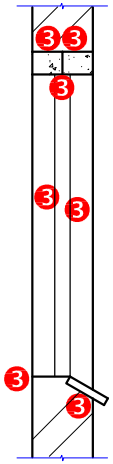
ROOF CAP	1
ROOF SHEET	2
PURLINS	2
GUTTERS	2
RWDP	2
WALL PLATE (2 x $\frac{1}{2}$)	1
TRUSS (4 x 1)+(2 x $\frac{1}{2}$)	5
TOTAL	15



SECTION A-A 5✓



DETAIL OF MARK ALLOCATION FOR A LOAD-BEARING WALL



DETAIL OF MARK ALLOCATION FOR A WINDOW

SECTIONAL ELEVATION		
1	ROOF	15
2	WALLS + FLOOR + FOUNDATION	13
3	WINDOW, DOOR + FIXTURES	5
4	HATCHING	6
5	LABELS	3
SUBTOTAL		**42**

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