

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1

NOVEMBER 2016

MEMORANDUM

MARKS: 100

This memorandum consists of 7 pages.

ANSWERS		
1	2	1
2	WILLIAM / "ON THE DOT ARCHITECTS"	1
3	1:800	1
4	VERNON	1
5	NAT PRINTERS	1
6	0 / NONE / NOT APPLICABLE	1
7	2015-05-06	1
8	2/3	1
9	INSPECTION CHAMBER	1
10	BLACK	1
11	CONTOUR LINE	1
12	MILLIMETRE / mm / METRIC	1
13	COMPACTED HARD CORE	1
14	ELECTRIC SECURITY FENCE	2
15	GATE OPENING DIRECTION	1
16	SERVITUDE	2
17	STOREROOM OVER BUILDING LINE	2
18	369,14 m [calculations 1, answer 1, metres 1]	3
19	2184 m² [calculations 2, answer 1, metres² 1]	4
20		3
	TOTAL	30

ANSWER 18

Show ALL calculations.

L = 2 (L + B)

 $= (2 \times 74569) + (2 \times 116000) \checkmark 1$

= 149,138 + 232,000

= 381,138

= 381,138 - GATE

= 381,138 - 12,000

 $= 369,138 \text{ of } 369,14 \checkmark 1 \checkmark 1$

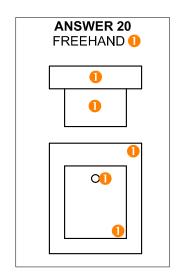
ANSWER 19

Show ALL calculations.

B A =9[(12,4 x 20) - (4 x 4)] + (12 x 8)
$$\sqrt{1}$$
 1 =9(248 - 16) + 96

= 2088 + 96

= 2184 m² 1 1



PAPER 1 QUESTION 1 GRADE 12 NOVEMBER 2016 MEMORANDUM

