

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1 EXEMPLAR 2008

MARKS: 100

TIME: 3 hours

This question paper consists of 6 pages.

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INSTRUCTIONS AND INFORMATION

- 1. The question paper consists of FOUR questions.
- 2. Answer ALL the questions.
- 3. All drawings are in first-angle orthographic projection unless otherwise stated.
- 4. All drawings must be drawn to scale 1:1, unless otherwise stated.
- 5. The questions must be answered on the answer sheets provided.
- 6. All the answer sheets must be re-stapled in numerical sequence and handed in irrespective of whether the question was attempted or not.
- 7. Careful time management is essential in order to complete all the questions.
- 8. Print your examination number in the block provided on every answer sheet.
- 9. All answers must be drawn accurately and neatly.
- 10. Any details or dimensions not given must be assumed in good proportion.

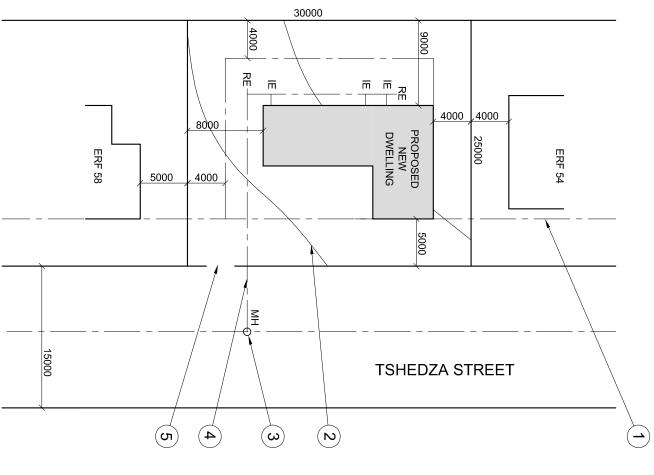
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OPEN SPACE

QUESTION 1: ANALYTICAL (CIVIL)

DoE/Exemplar 2008

Given:A table of questions and a site plan of a proposed new dwelling.

Instructions:
Complete the table below by neatly printing the answers to the questions, which all refer to the accompanying drawing.

[25]

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2			
_		What is the total area of the site in m²?	20
2		What is the total length of the dwelling in metres?	19
		The side of the house that faces the road will be called theelevation?	18
2		What is the distance from the boundary line to the building line at the back of the property?	17
2		What is the distance between the proposed dwelling and the dwelling on erf number 58?	16
_		What is the feature at 6 called?	15
_		What is the feature at 5 called?	14
_		What is the feature at 4 called?	13
		What is the feature at 3 called?	12
		What is the feature at 2 called?	=
		What is the feature at 1 called?	10
_		What do the the letters RE stand for?	9
		What do the letters IE stand for?	∞
		What is the width of the street in metres?	7
1		What is the erf number of the proposed dwelling?	6
_		What colour must a proposed new dwelling be on a site plan?	5
2		What is on the property behind the proposed dwelling?	4
1		What is the erf number of the adjacent property on the south side?	3
1		What is the name of the street?	2
1		What is the scale of the drawing?	1
	ANSWERS	QUESTIONS	

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SITE PLAN SCALE 1:200

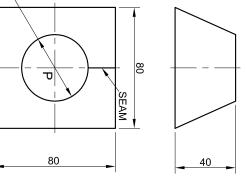
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QUESTION 2: DEVELOPMENT

Given:The front view and top view of a square to round transition piece.

- Instructions:Draw the given views of the transition piece.Develop the surface of the transition piece.Show ALL necessary construction and fold lines.

[35]



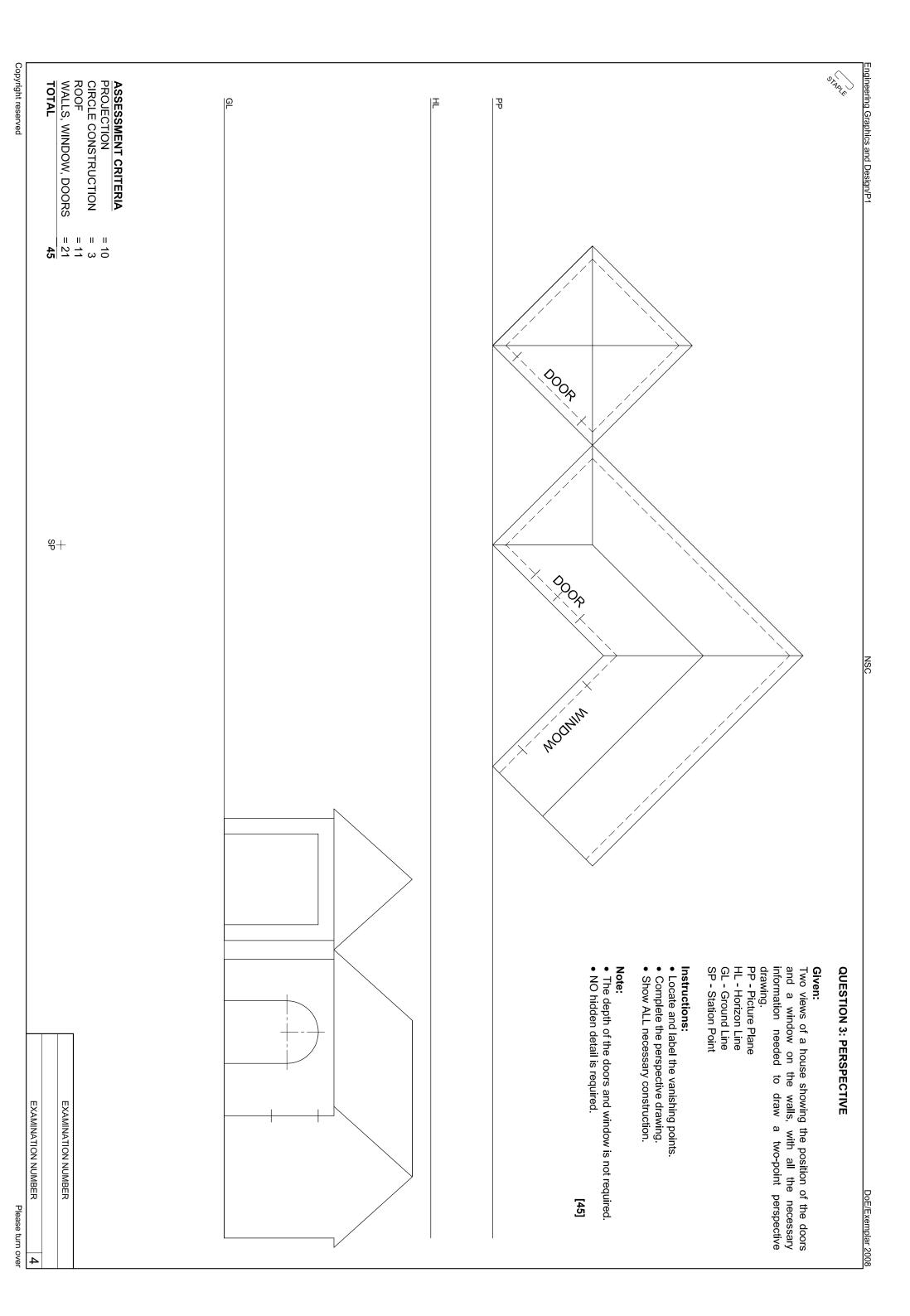
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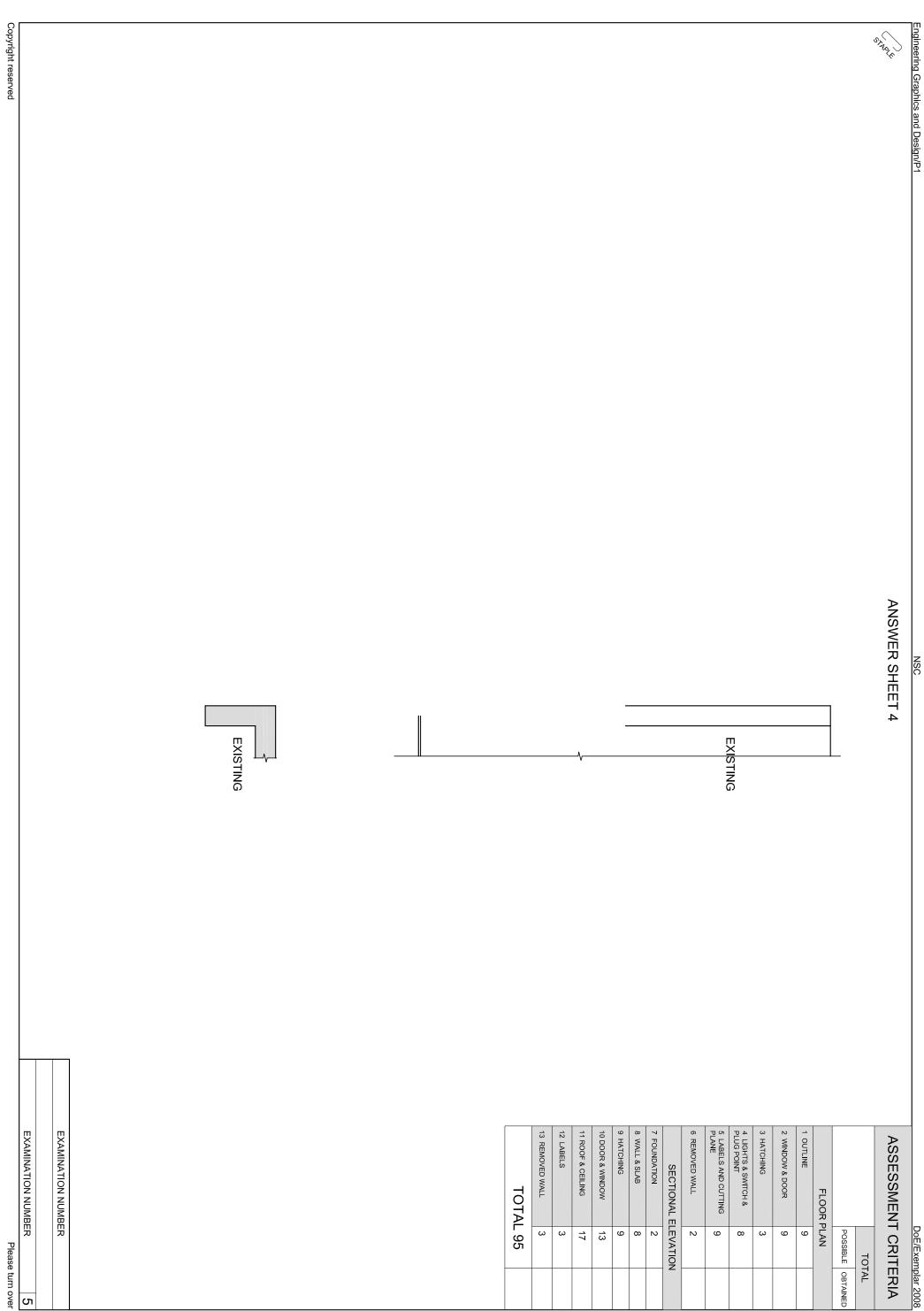
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ASSESSMENT CRITERIA
FRONT VIEW
TOP VIEW
CIRCLE DIVISION
TRUE LENGTH x2
DEVELOPMENT
CENTRE LINES
TOTAL





WINDOW SCHEDULE DOOR SCHEDULE AND

PROPOSED NEW LAUNDRY ON STAND 354 PHOENIX MR K NAIDOO DRAWING NUMBER DOE 1-08

DOOR FRAME STANDARD, EXTERNAL, MILD STEEL

031 708 5555

7 ZIBI ROAD DURBAN

FRAME PROFILE 46 [4] 32

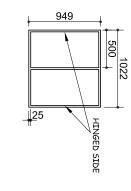
DOOR H/W FRAMED, LEDGED AND BATTENED

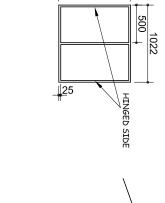
TWO-LEVER LOCKSET RONMONGERY PAIR 75 mm BOLTS,

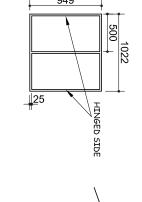
> WINDOW STANDARD, MILD STEEL, ND 2 GLAZING 3 mm CLEAR GLASS

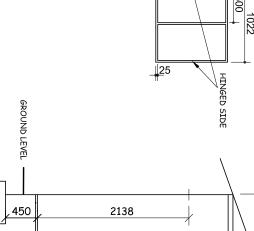
242

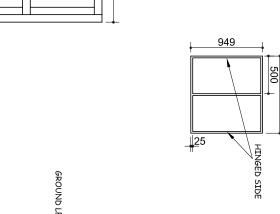
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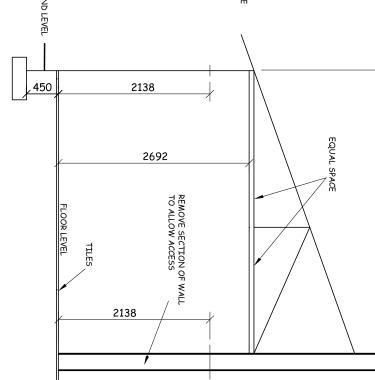


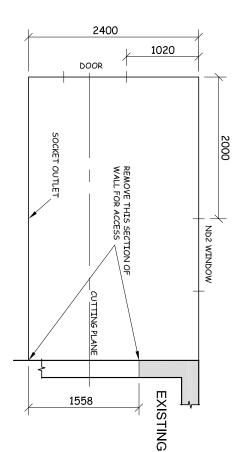




887

822





ELECTRICAL LEGEND

OR X

2 X 40 W

SOCKET OUTLET

D

D-

OR X

2125

SCHEMATIC SECTIONAL ELEVATION SCHEMATIC PLAN

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INCOMPLETE FOUNDATION DETAIL

- A schematic floor plan and schematic elevation showing the outer perimeter of a proposed new laundry to an existing dwelling detailing the positions of all the features.
- A door and incomplete window schedule.
- Sketches of the roof and incomplete foundation detail.
- An electrical legend.

4000

Instructions:

- Answer this question on ANSWER SHEET 4 on page 5.
- Draw, to scale 1:40, the complete floor plan and complete sectional elevation to the given specifications.
- ANSWER SHEET 4. Attach the drawings of the proposed new laundry to the given information on

EXISTING

Specifications: THE FLOOR PLAN

- Add the following features to the floor plan:
- ALL the walls with hatching detail
- The door and the window detail
- The removed section of the wall of the existing dwelling
 ONE light outside the door and a single TWO, 40 watt fluorescent tube fitting in the
- ONE switch for both lights

centre of the ceiling of the laundry

- ONE switched socket outlet in the middle of the indicated wall
- The cutting plane. Label the plane
- Label the floor plan and include the scale

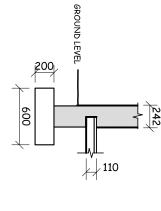
THE SECTIONAL ELEVATION

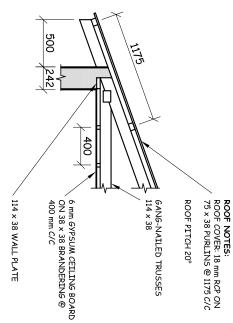
Add the following features to the sectional elevation:

- The complete foundation, wall, floor slab and roof detail
- The door and complete window det
- The removed section of the wall of the existing dwelling
- ALL necessary hatching
- Label the sectional elevation: SECT FIONAL ELEVATION ON A-A

- Label ONLY the following features course, window code, room design on the correct view: natural ground level, damp proof ation and floor finish.
- ALL drawing must comply with the guidelines contained in the SABS 0143.

[95]





INCOMPLETE ROOF DETAIL