INSTRUCTIONS AND INFORMATION

1. This question paper consists of FOUR questions.
2. Answer ALL the questions.
3. ALL drawings are in first-angle orthographic projection, unless stated otherwise.
4. ALL drawings must be drawn to scale 1 : 1, unless stated otherwise.
5. ALL the questions must be answered on the QUESTION PAPER as instructed.
6. ALL the pages must be restapled in numerical sequence, irrespective of whether the question was attempted.
7. Time management is essential in order to complete all the questions.
8. Print your examination number in the block provided on every page.
9. Any details or dimensions not given, must be assumed in good proportion.
10. ALL answers must be drawn accurately and neatly.

FOR OFFICIAL USE ONLY

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>MARKS OBTAINED</th>
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<th>SIGN</th>
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FINAL CONVERTED MARK

100

CHECKED BY

COMPLETE THE FOLLOWING:

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<tbody>
<tr>
<td>CENTRE NUMBER</td>
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</table>
NOTE: 
The hatching detail has been omitted.

1. In the space provided below, draw, in neat freehand, the symbol for the north point according to SABS 0143.

QUESTIONS

1. With reference to the detailed section through the components of a wall and roof, link the number on the drawing with the correct component in the column to the right of this question.

<table>
<thead>
<tr>
<th>CEILING BOARD</th>
<th>GUTTER</th>
<th>REVEAL</th>
<th>RAFTER</th>
<th>WALL PLATE</th>
<th>FASCIA BOARD</th>
<th>BATTEN</th>
<th>TIE BEAM</th>
<th>CORNICE</th>
<th>LINTEL</th>
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2. What is the drawing number?

3. In which road is the exit of the property located?

4. What does the line at 1 indicate?

5. Name the feature at 2.

6. Name the feature at 3.

7. Name the feature at 4.

8. What does the line at 5 indicate?

9. How many rodding eyes are shown on the site plan?

10. How many proposed suites must be built?

11. Which is the highest corner of the stand?

12. Determine the perimeter of the stand 92 in metres. Show ALL calculations.

13. Determine the total area of the stand 92 in square metres. Show ALL calculations.

14. In the space provided in the title panel, draw, in neat freehand, the symbol for the north point according to SABS 0143.

TOTAL 30

EXAMINATION NUMBER 2
QUESTION 2: DEVELOPMENT

Given:
The front view and top view of a portion of a duct showing an offset square-to-square transition piece with two connecting pieces.

Instructions:
2.1 Draw, to scale 1:1, the given front view and top view of the given portion of the duct.
2.2 Develop the surface of the transition piece ONLY. Make edge AB the seam.

Show ALL necessary construction and fold lines. [34]

ASSESSMENT CRITERIA

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<th>Criteria</th>
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<td>TRUE LENGTH + METHOD</td>
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QUESTION 3: PERSPECTIVE

Given:
Two views of a cottage and the information needed to draw a two-point perspective drawing.
PP = Picture plane
HL = Horizon line
GL = Ground line
SP = Station point

Instructions:
Complete the perspective drawing.

- Align the drawing sheet with the ground line (GL).
- Show ALL necessary construction.
- Show the wall thickness at the door and the window.
- NO hidden detail is required. [41]

<table>
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QUESTION 4: CIVIL DRAWING

Given:
- The incomplete north elevation of a new abutment block for a campsite showing the walls, position of the windows, the roof and notes
  - The incomplete floor plan showing the walls, position of the windows, doors, sanitary fixtures and the electrical fixtures
  - Roof notes and a schematic diagram of a roof truss
  - The incomplete foundation and wall detail of wall 'A' and wall 'B' on cutting plane A-A
  - A table of roof components
  - A door and window schedule
  - A table of electrical symbols
  - A table of sanitary fixtures
  - The incomplete floor plan of the new abutment block, drawn to scale 1: 50, on page 6

Instructions:
- Answer this question on page 6.
- Using the given incomplete floor plan, draw, to scale 1: 50 and to the specifications, the following views of the new abutment block:
  4.1 The complete floor plan
  4.2 The north elevation
  4.3 A sectional elevation on cutting plane A-A
- ALL drawings must comply with the guidelines and conventions contained in the SABS 0143.

SPECIFICATIONS:

THE FLOOR PLAN
Add the following features to the drawing:
- ALL the doors and windows
- The sanitary fixtures as indicated with the abbreviations
- ALL the electrical fixtures as indicated with the numbers

THE NORTHELEVATION
Show the following features on the drawing:
- The outside walls
- The roof detail including the gutter, fascia board and rainwater downpipe
- The window detail
- The finished floor level

THE SECTIONAL ELEVATION
Show the following features on the drawing:
- The complete foundation, wall, slab and roof detail
- The window, with a single lintel, and door detail
- ALL features and fixtures on and to the east of cutting plane A-A
- ALL hatching detail

Label the following:
- The floor plan, including the scale
- The room designation and floor finish (ceramic tile)
- The north elevation and the sectional elevation
- Using the correct abbreviations, label the following features in the correct view; ground level, finished floor level and damp-proof course.

NOTE:
- ALL substructure hatching may be drawn in freehand.