NATIONAL UNIVERISTY OF SCIENCE AND TECHNOLOGY

FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF QUANTITY SURVEYING

MEASUREMENT II

BQS 2001

Main Examination Paper

February 2025

This examination paper consists of **two (2)** pages.

Time Allowed:	**4 Hours**
Total Marks	**100**
Special Requirements	**Take-off papers, Abstract papers, BOQ papers and SMM Booklet**
Examiner's Name:	**Mr. N. Khupe**

INSTRUCTIONS

1. Answer **ALL** questions
2. Where information is insufficient, candidates should make **stated** assumptions
3. Use of non-programmable scientific calculators is permissible

MARK ALLOCATION

QUESTION	MARKS
1.	60
2.	25
3.	15
TOTAL	**100**

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Question One

a) Take off concrete, formwork and reinforcement quantities **only** for a concrete framed structure and staircase items as detailed in **Appendix A** [40 marks]

b) Prepare an abstract for the measured items in **a)**. [10 marks]

c) Prepare a bill extract for the measured items in **a)**. [10 marks]

[60 marks]

Question Two

The attached drawing in **Appendix B** shows a residential house plan. Take off quantities of all sanitary plumbing, sanitary fittings and soil drainage as detailed on the drawing **[25 marks]**

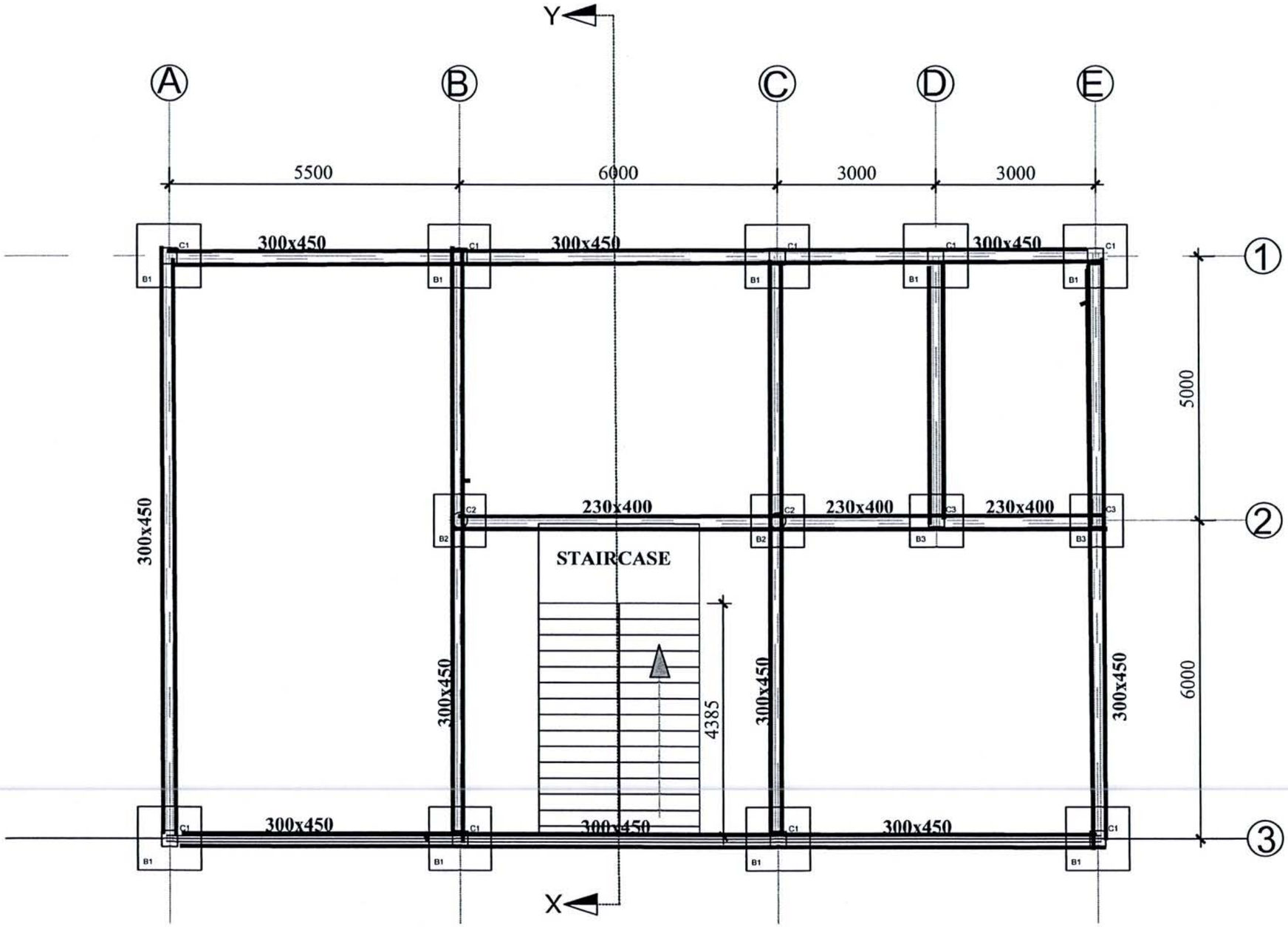
Question Three

Making use of the attached drawing in **Appendix B**, take off quantities of the following demolitions and alterations items.

- Replace carpet with porcelain tiles.
- Ceramic tiles in lieu of grano in the verandah.
- Replace ND4F, size 1511 x 1248 mm high in one of the bedrooms with NDV11F, size 2000 x 1545 mm high. **[15 marks]**

END OF EXAMINATION

Appendix A

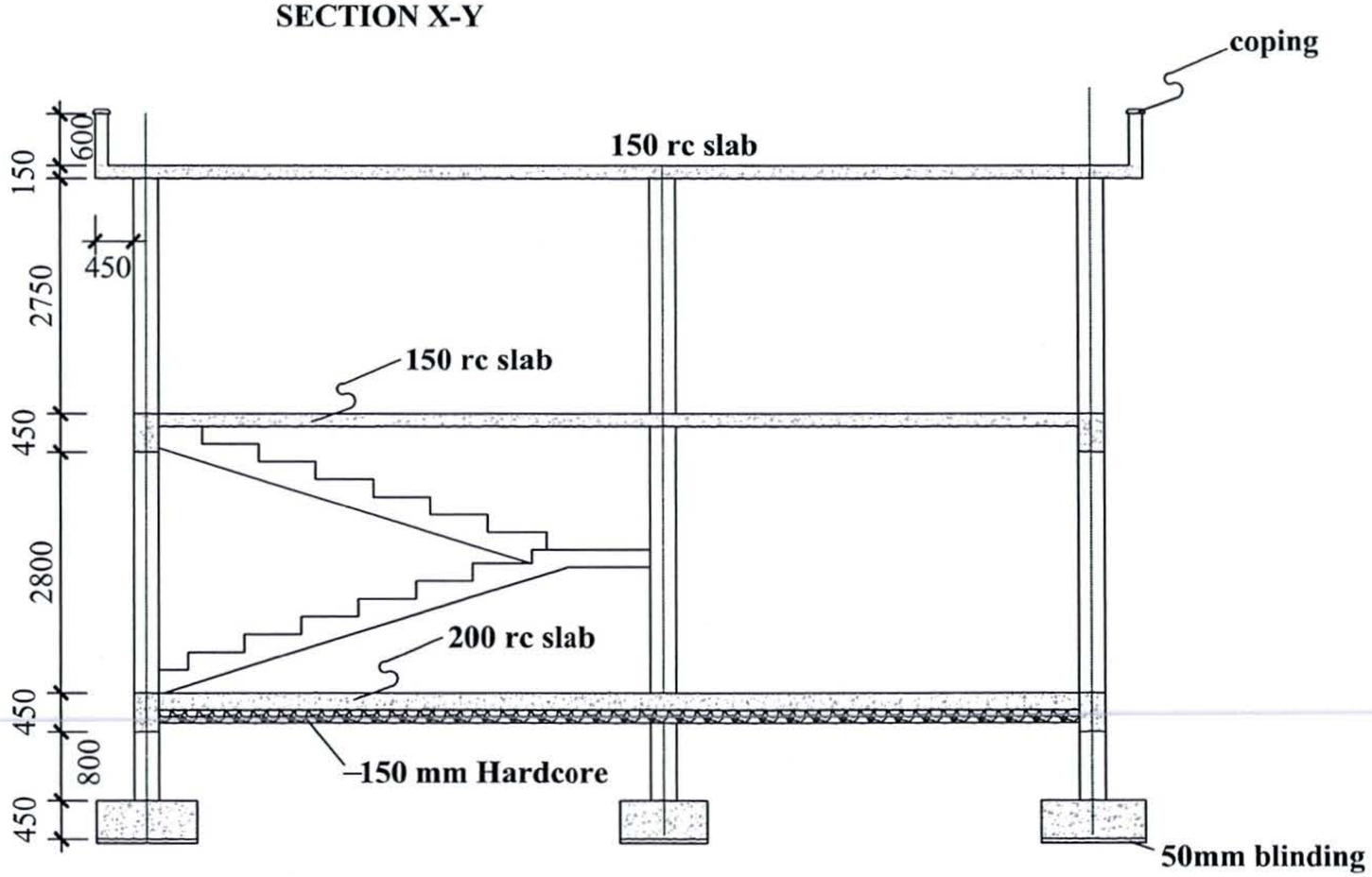


Foundation Layout. & TOP VIEW

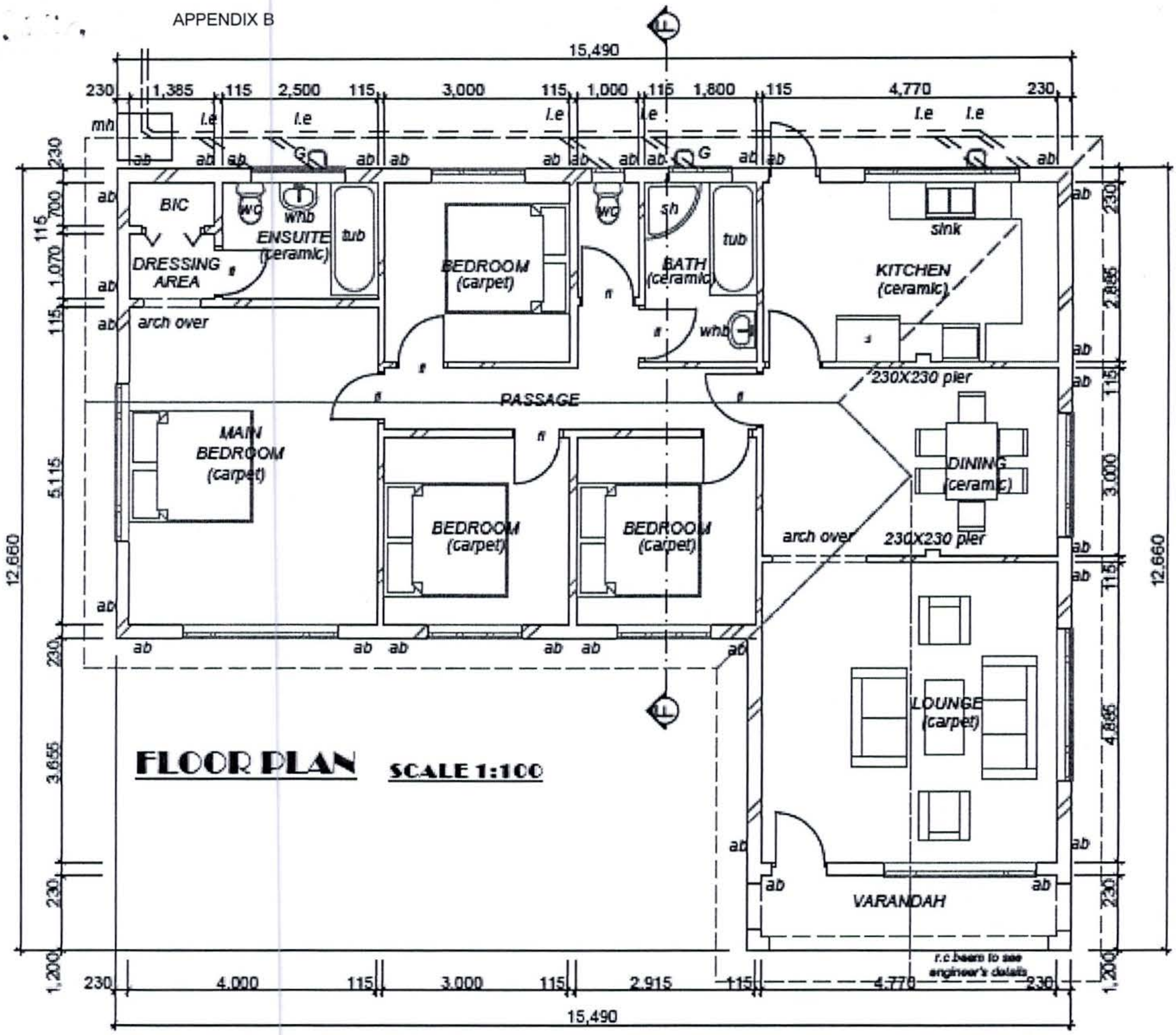
BASE AND COLUMN SCHEDULE

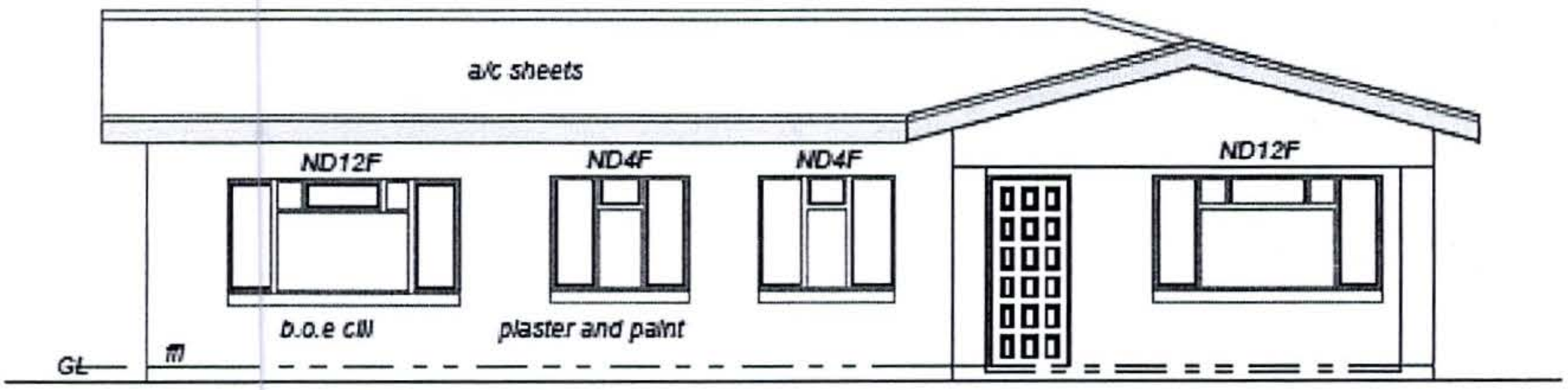
Base	Column
B1 1200x1200x450	C1 300 x 300
B2 1000x1000x450	C2 Ø300
B3 1000x1000x450	C3 300 x 230

SECTION X-Y

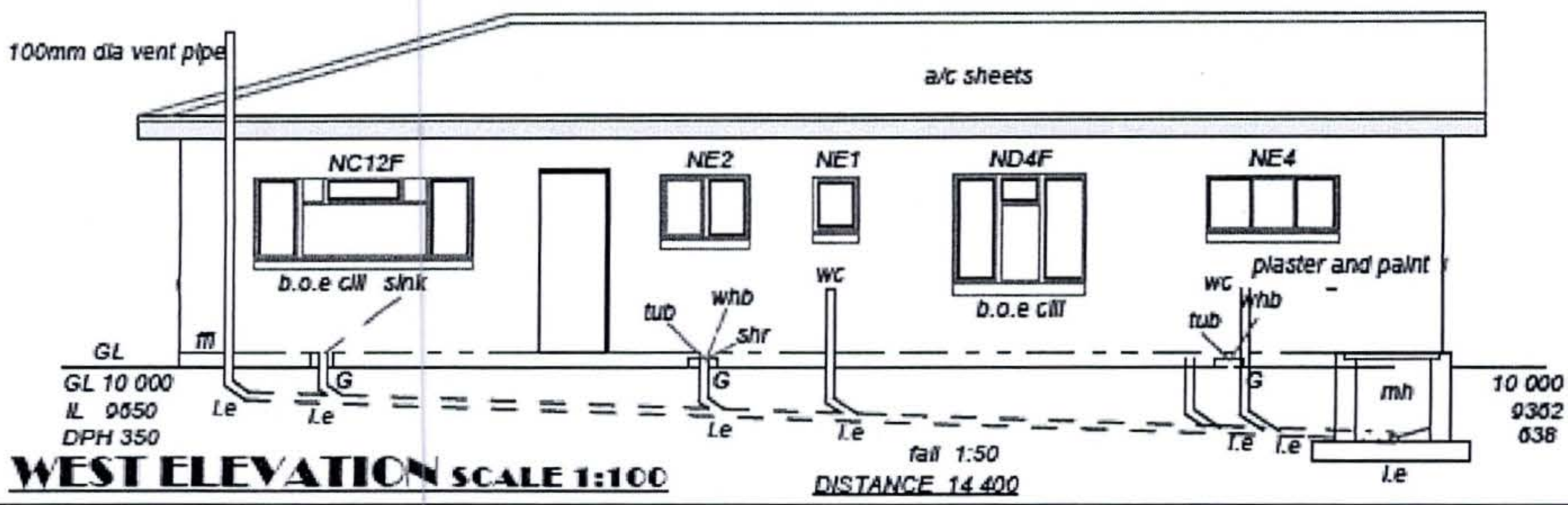


APPENDIX B





EAST ELEVATION SCALE 1:100



WEST ELEVATION SCALE 1:100