

Cadastral Surveying N

Time Allowed: 3 hours + 10 minutes reading time

General Instructions to Candidates

Total Marks = 100

Marks for questions shown in brackets.

QUESTION 1

(10 marks)

It is often said that the fundamental consideration in boundary redefinition is *intent*. Surveyors may interpret *intent* as redefining boundaries in the intended mathematical relationship to starting points redefined by other surveyors (after the boundaries were originally created). Discuss the appropriateness of this approach to *intent* given the varying degrees of reliability of starting points.

QUESTION 2

(15 marks)

Many experts on boundary surveying differentiate between monuments and original marking. What is the difference? Why do monuments, marks and measurements hold the positions in the hierarchy that they do? Under what circumstances could this order be upset, that is, when would it be appropriate for measurement to prevail over monuments or marks?

QUESTION 3

(15 marks)

The Crown grant of a coastal Section contains a reservation of all lands within 150 links of high water mark. The present owner of the Section wants to subdivide it, hoping to provide water frontages where possible.

Set out the various factors the surveyor has to take into account before advising the client as to their prospects of water frontages. If water frontages are not available how should the surveyor set about fixing the landward boundary of the reservation?

QUESTION 4

(15 marks)

Sketch A in Figure 1 is the Crown survey in 1938 creating Sections 900 and 901. In resurvey your field work discloses the information shown in sketch B. Give your reasons for the location you would adopt for the eastern boundary of Section 900.

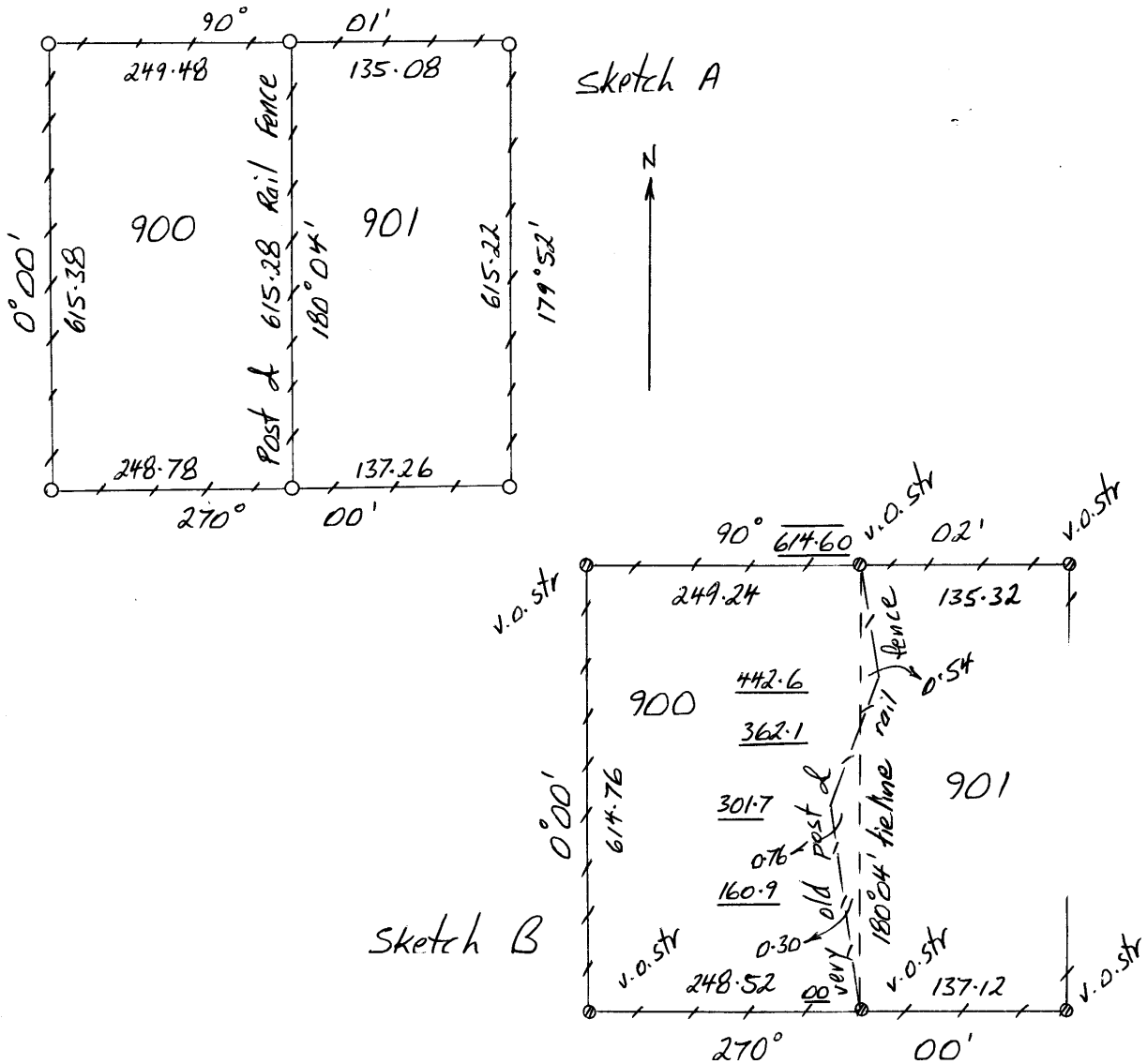


Figure 1

QUESTION 5

(15 marks)

Figure 2 shows original survey measurements for rural parcels and the current occupation measurements. Indicate on a sketch where you would redefine the side boundaries of sections 92, 93 & 94. Show fence offsets and frontage measurements. Include also on the sketch **brief** annotation of the reasons for your decision.

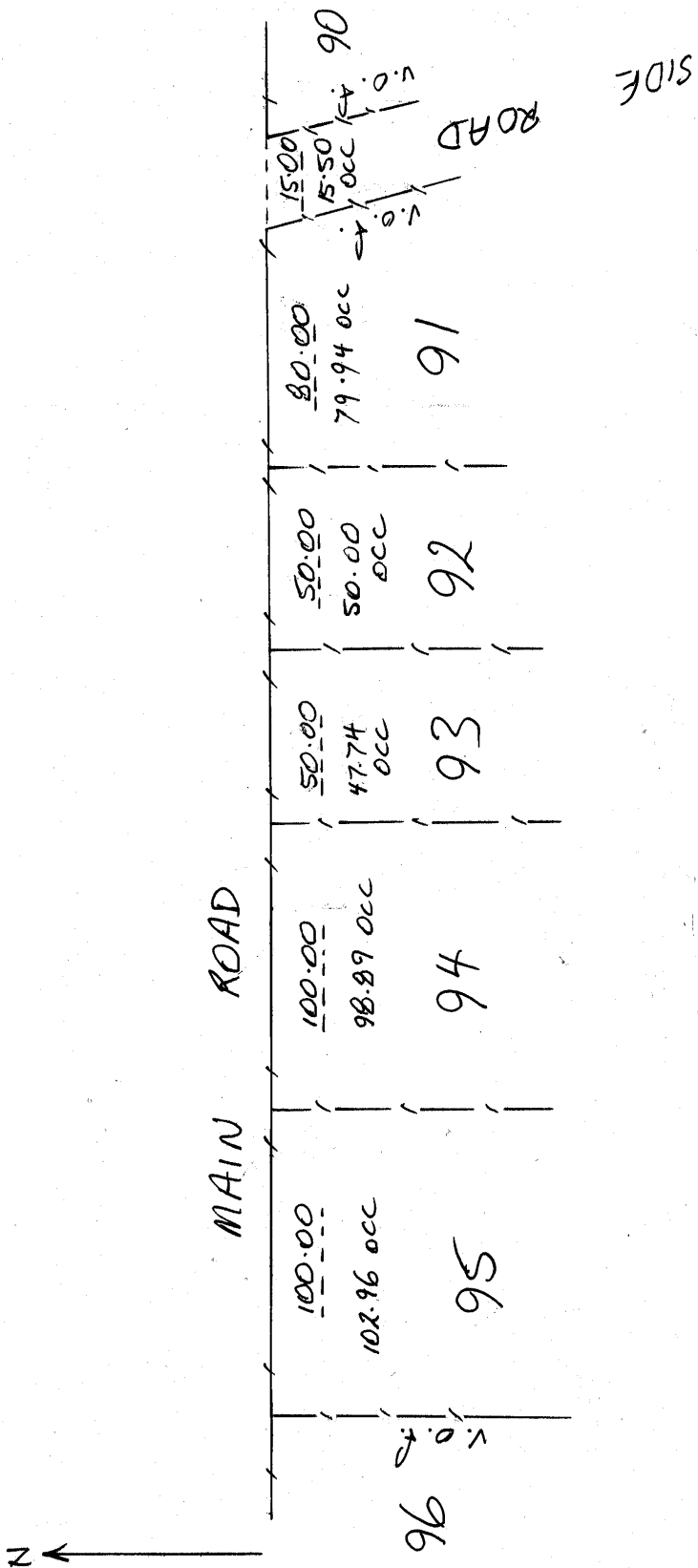


Figure 2

QUESTION 6

(15 marks)

Figure 3 shows CT data for side boundaries created by uncertified sketches in old transfers.

Figure 4 shows the location of occupation adjacent to those boundaries.

At what running chainage along the road frontage from the western side of the eastern road would you place pegs to redefine the boundaries of CT 297/112?

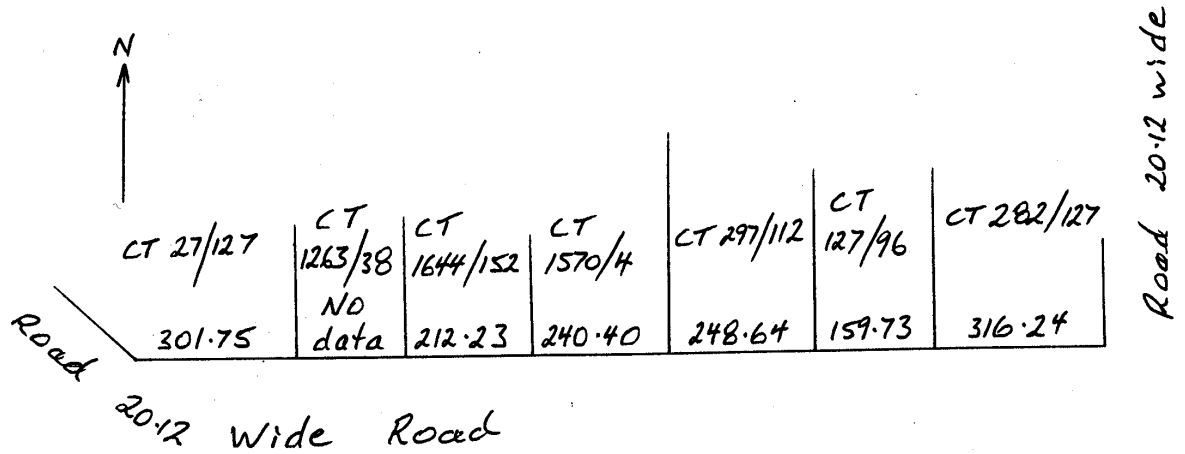


Figure 3

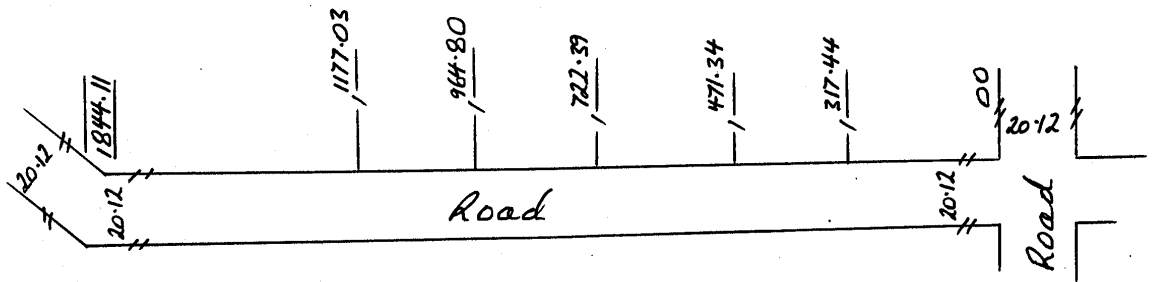


Figure 4

QUESTION 7

(15 marks)

You have been instructed to peg out allotment 2 in GRO 215/1856, upon which your client wishes to build up to the boundaries.

Search reveals that the old building on allotment 1 was the subject of an Application survey, the Certificate of Title which issued thereon being bounded by the faces of the five sides of the brick walls of this building. Allotments 2 and 3 remain under the Old System title.

You have no difficulty in accurately relocating the original documentary rectangular boundaries of GRO 215/1856. The relationship of current buildings and fences to these rectangular documentary boundaries are shown in Figure 5.

State where you would mark the boundaries of allotment 2, giving your reasons. What other advice should be offered to your client?

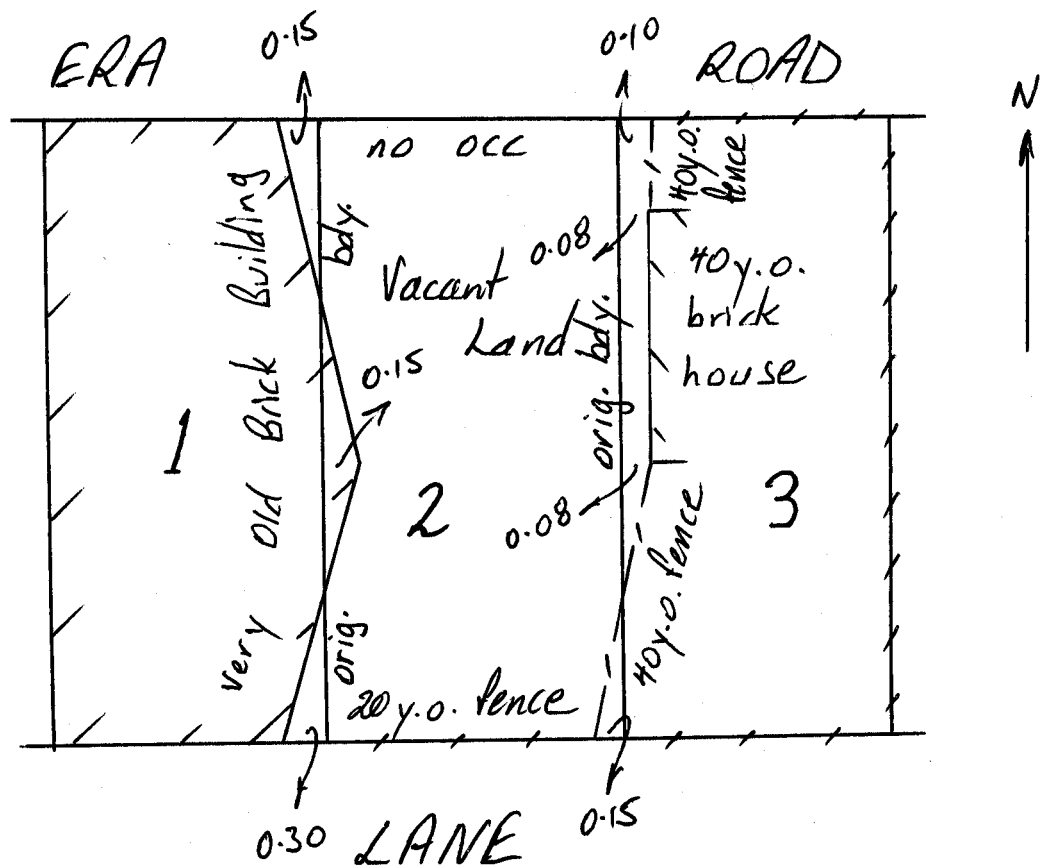


Figure 5