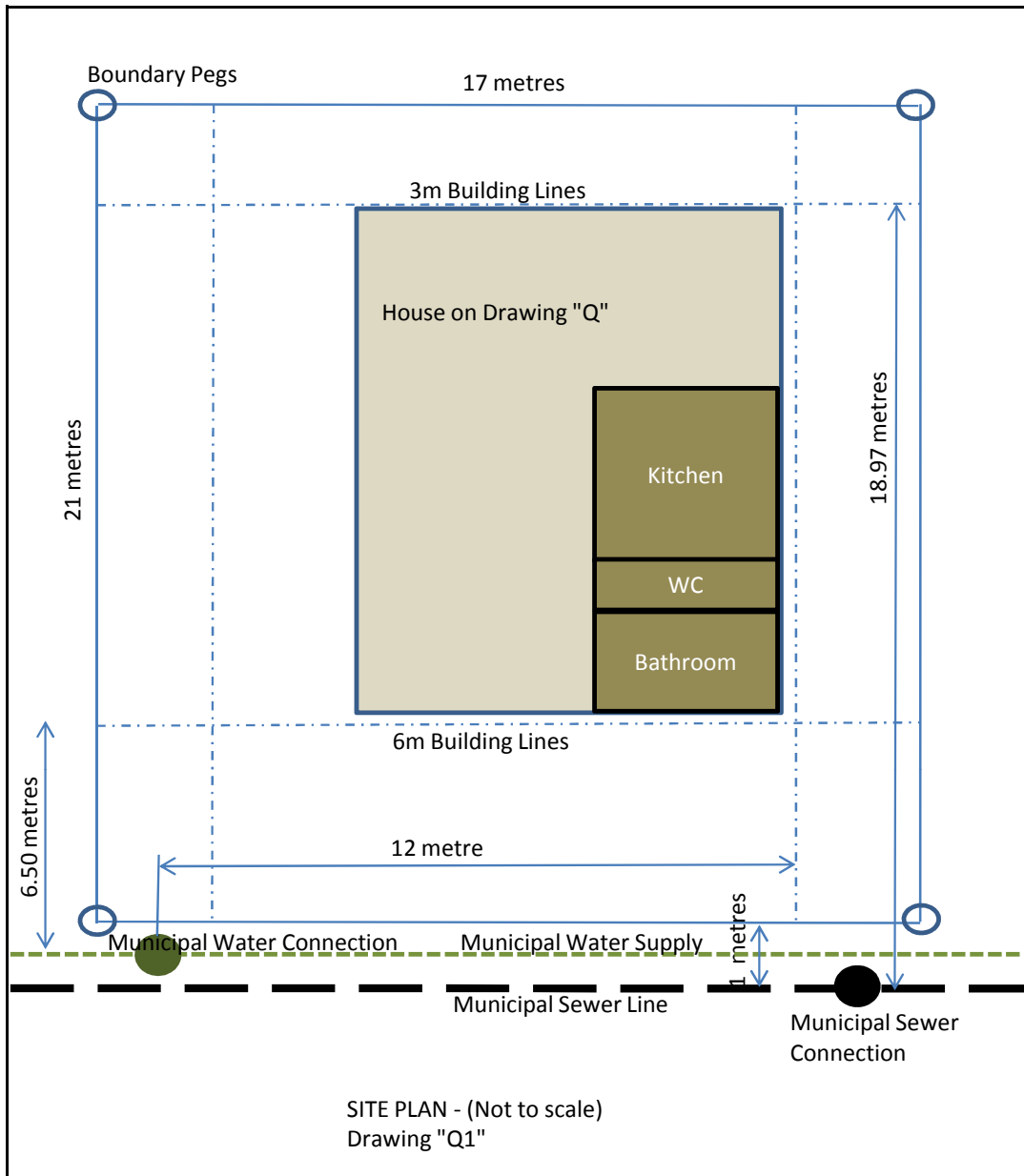


SITE PLAN: BEACH COTTAGE - PORT EDWARD



ASSIGNMENT NR 1 - FIRST SEMESTER 2009

DESIGN APPRIASAL 2A

Total Mark

100

You are the Quantity Surveyor on the project. You are issued with the drawing titled " Beach Cottage - Port Edward" , drawing number "Q". You only receive the site lay out from the Architect now. Unfortunately the did not have time to give you the details for the water and sewer services. In this assignment you are expected to apply your broad knowledge acquired during your Tertiary education to undertake the following tasks:

1. Draw a detailed, annotated reticulation layout for the water and sewer services from the municipal 5
2. In addition you are required to draw (on A3 paper):
 - 2.1 a longitudinal section of the below soil drainage run 10
 - 2.2 a 3-dimensional layout of the hot and cold water supplies 10
 - 2.3 the soil waste end vent pipe system to be adopted. 5
3. Draw up a detailed sanitary schedule for this project by researching in Building Construction & Graphics Standards by Andre Grobbelaar for the specification of all the fittings that you would require for a project such as this. The schedule must be accompanied by a Query Sheet that you draw up enquiring from the Architect the proprietary name of a product. Your schedule will then contain the name of an existing product in the market as assumed your architect informed you of. 25
4. Handwritten taking-off on dim paper, properly prepared with a front page of the Complete Plumbing and drainage (measured from your drawing done in nr. 1-3). 20
5. Abstract the dimension (handwritten format) in preparation for billing. 5
6. Produce a Bill of Quantities for the Plumbing and Drainage Trade, in accordance with the Standard System of Measuring Building Works in south Africa - 6th Edition Revised. This can be handwritten or typed using MSWord or Excel proprietary software systems. 10
7. Price the complete Trade applying the first principles of pricing and show the detail of the price composition of each billed item. 5
8. You are to consult the Standard Preambles and ensure that you include supplementary preambles if necessary in producing your Bill of Quantities. 5