NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY FACULTY OF ARCHITECTURE AND QUANTITY SURVEYING

DEPARTMENT OF ARCHITECTURE BAGHTLOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE

PART V-FIRST SEMESTER EXAMINATIONS – DECEMBER 2002 AAR 5102 – BUILDING CONSTRUCTION V

Instructions
Answer All Questions
All diagrams should be clearly annotated.

Time: 3 Hours

[5]

QUESTION 1

QUI	ESTION 1	
a)	Define at least three common types of subsoils that are encountered in Zimbabwe using annotated detailed free hand sketches, show the appropriate recommended large buildings foundation type that can be used for each of the subsoil types.	[10]
b)	Draw a section through the foundation; walls and roof of one of the large scale building types used above? $[10] \label{eq:prop}$	
c)	Sketch clearly annotated enlarged details of the foundations, walls and roof from the sabove. Waterproofing should be clearly indicated on each of the details above.	ection [5]
QUI	ESTION 2	
a)	Produce a detailed sketch of a section through a Chromadeck clad warehouse.	[10]
b)	Enlarge the details of the foundations; wall sections and roof sections clearly detailing the fire proofing elements.	[10]
c)	Produce a Schedule of Finishes which would be appropriate for the warehouse. [5]	
QUI	ESTION 3	
a)	Using annotated sketches clearly indicate the difference between formwork, shoring and scaffolding temporary works system.	[10]
b)	Produce a detailed sketch to indicate the appropriate temporary works required for a 3m reinforced brick window lintel.	[10]
c)	Using a detailed sketch illustrate the difference between underpinning in buildings and demolition.	[5]
QUI	ESTION 4	
a)	Assume your practice has been commissioned to be the principal agents for the construction of a house. Produce a construction equipment plan.	[10]
b)	Which are the major elements of the building codes to be observed in construction and equipment planning.	[10]



Produce a site visit and reporting schedule to be used during the house construction.