



**REFERRED/DEFERRED ASSESSMENT - SESSION 2010/11
SUMMER 2011**

COURSE CODE	BUIL0007
COURSE TITLE	Construction Technology & Maintenance
COURSE COORDINATOR	Anthony Kelly

To Students

If you have failed a course or part of a course and have been allowed by the Progression and Award Board to be reassessed in one or several of the courses, this will be indicated in your result letter. On the back of the result letter, the words '*Failed -retake permitted before the next academic year*' will appear next to the relevant assessment items or course(s).

In that case, you are required to submit coursework and/or to take an examination again as appropriate in August 2011.

Examination timetable

The detailed examination timetable will be posted on the University website **towards the end of July**. Deferred/referred examinations should be timetabled between 15th and 26th August 2011. The link can be followed from here:

<http://www.gre.ac.uk/students/exams>

Deadline for submitting coursework

Coursework must be delivered by hand no later than **Monday 15th August 2011** to the School of Architecture & Construction. Please note that students studying at Medway may submit at Medway on 15th August. Early submissions to Medway must be by **prior** arrangement with Shelagh Barker S.D.Barker@gre.ac.uk

If you send your coursework by post, it must be sent by first class recorded delivery (keep a copy of both the postal receipt and the coursework) **no later than Monday 15th August 2011** to:

Referred/Deferred Coursework
School of Architecture & Construction
Mansion Site
Bexley Road
London SE9 2PQ
UK

Coursework submission

All coursework must be submitted by the deadline and method as above and must be accompanied by the appropriate electronic header sheet.

Deadline for submitting portfolios

Portfolios of design or visual work can be submitted either:

- (i) in person **on Monday 15th August 2011 between 10:00am and 4:00pm**, to the Mezzanine Studio, **or**
- (ii) by first class recorded delivery (keep a receipt), **on or before Monday 15th August 2011**, to:

Referred/Deferred Portfolios
School of Architecture & Construction
Mansion Site
Bexley Road
London SE9 2PQ
UK

Submission of portfolios

Portfolios of design or visual work must be submitted by the deadline and method as detailed above.

Make sure your portfolio is labelled, inside and outside with your name, year and contact details.

You must print **2 copies of the electronic header sheet**. Please attach one copy securely to the outside of your portfolio. The 2nd copy will be scanned into the Banner receipting system for proof of submission.

Postal Submissions

All postal submissions, Coursework and Portfolios, will be receipted with the date of postage as the date of submission.

It is the responsibility of the student to ensure that the work is submitted on time by the above method.

Queries

Any queries should be emailed to

acqueries@gre.ac.uk

with

- Your full name
- Your student ID number
- Your Programme of Study e.g. BA Architecture
- The title and code of the course(s) with which you have a query
- The nature of the query

<p>Please note that this email address will only be monitored until Friday 23rd September 2011, after this date enquiries should be sent direct to the Course Coordinator.</p>
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Staff email addresses and contact numbers can be looked up here:

http://www.gre.ac.uk/staff_intranet/directory

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Please find below details of the coursework to be submitted and/or examination advice as appropriate.

Assessment item	Project One: Solar Shading of the Tower Building
Electronic header sheet number	184135
Details of work:	
Aims	
To develop an appreciation of the discomfort problems associated with glare and solar heat gain in buildings and the ways in which these can be controlled.	
Learning Outcomes	
As a result of completing this assessment students will understand why problems of glare and heat gain occur within buildings and how such problems can be overcome.	
Task	
<p>The University's Facilities Management Department has sought the views of teaching staff on the appropriateness of lecture halls and teaching space. A number of staff members have expressed concern about the conditions in various rooms in the Tower Building. Many reports refer to problems of glare from direct sunlight and excessively high temperatures during summer months caused by solar heat gain.</p> <p>The University is seeking your advice on the best way to deal with this problem. They have commissioned you to prepare a report that details why these problems occur and how they can be overcome. There are many different methods, internal and external and the University has specifically requested that your report details the advantages and disadvantages of each.</p> <p>Your report should:</p> <ol style="list-style-type: none"> 1. Explain why buildings are affected by glare and heat gain taking account of the size and position of windows in the building and their orientation. 2. Describe the alternative approaches that could reduce glare and heat gain in the Tower Building, explaining the advantages and disadvantages of each. 	

Useful References

Littlefair, P J (1999) *Solar Shading of Buildings*, Construction Research Communications, BRE Report BR364

www.levolux.com/

<http://www.pilkington.com/>

Proportion of overall assessment

This studio comprises 25 % of the overall assessment for the course

Assessment item	Project two: Environmental Services
Electronic header sheet number	184136
<p>Details of work:</p> <p>This project is to be completed <i>individually</i>.</p> <p>Aims</p> <p>The aim of the project is to provide you with an opportunity to develop your abilities to research and produce a realistic proposal for a client. The project will provide you with an insight into the problems of designing a realistic scheme whilst ensuring that solutions are functional and comply with current regulations.</p> <p>Learning Outcomes</p> <p>At the conclusion of the project students will:</p> <ol style="list-style-type: none"> 1. Be able to generate realistic and implementable design concepts for a client; and, 2. appreciate the space requirements of environmental services within buildings. <p>Tasks</p> <p>A developer (your client) is planning the development of a commercial building on a business park. The developer has a background in housing development and little experience of office development projects. Hence, he has engaged the services of your multi-disciplinary consultancy that specialises in the interior design and fitting out of commercial office space.</p> <p>An outline floor plan of the steel framed, three- storey subject building is enclosed, its clear storey height is four metres. The developer intends to lease this building to an international conglomerate as the regional office for their E-Commerce related activities. Beyond this use, future use is unknown and maximum flexibility of space layout is required.</p> <p>Produce a report for the developer's Project Manager containing the following:</p> <ol style="list-style-type: none"> 1. A <i>brief</i> introduction containing a technical description of the building's: structural form; main materials of construction; space layout and servicing. 2. A technical description and a schematic diagram for each of the following: <ol style="list-style-type: none"> 2.1. Hot and cold water installation. 2.2. Above ground drainage. 2.3. Electric lighting. 2.4. Air-conditioning. 2.5. The electrical installation. 	

For example technical descriptions refer to building case studies in the *Architects' Journal* (available in library). Cable sizing and other technical detail of this nature is not required but information on location and general provision is.

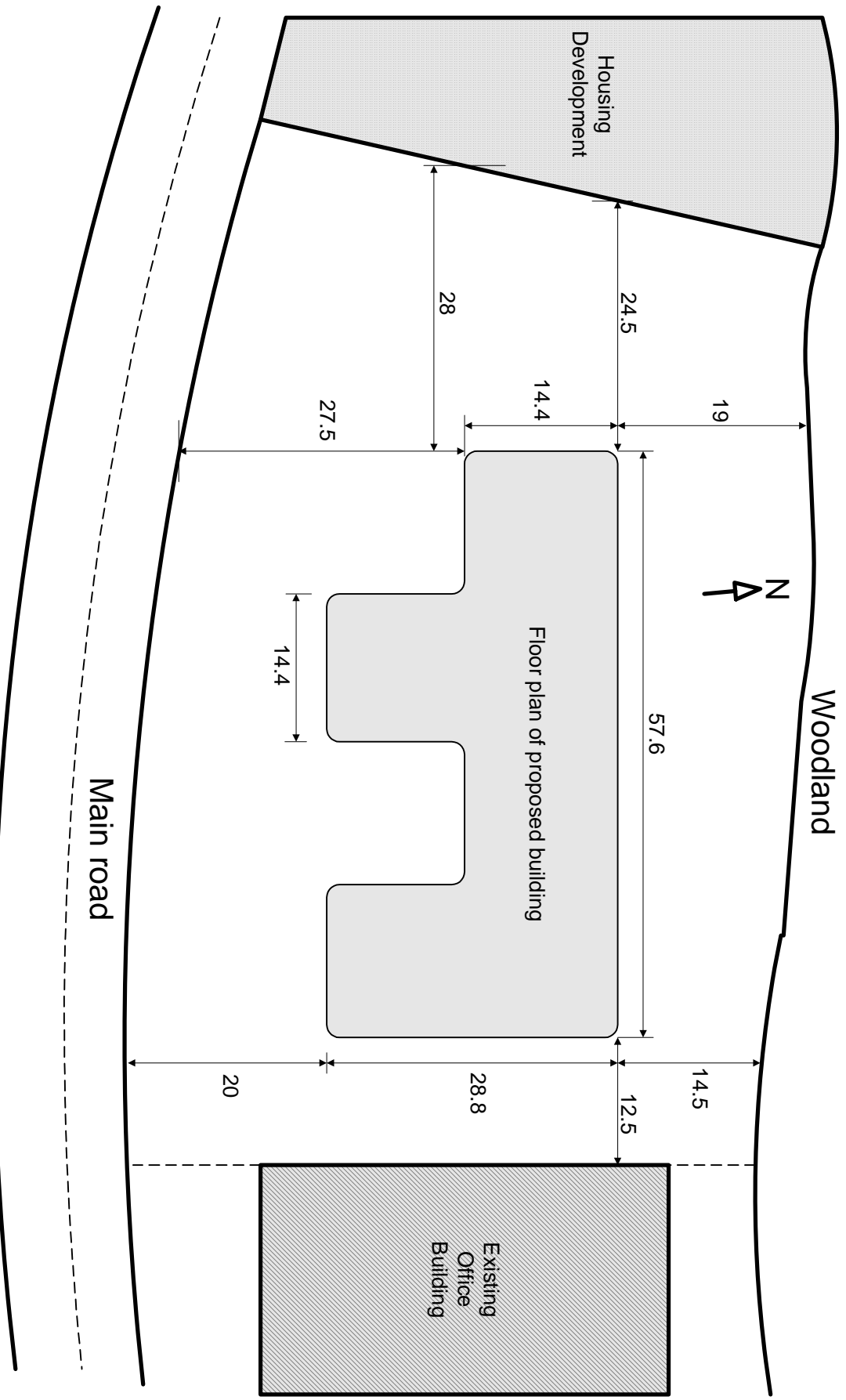
Identify approximate sizes, space requirements, materials and major maintenance requirements.

Notes

- The course coordinator is the client's representative and will clarify and expand on the above brief as necessary.
- All drawings should be on suitably sized paper (at least A3 or larger and not tracing paper).
- This studio comprises 25 % of the overall assessment for the course.

Useful Reference:

Hall, F & Greeno, R (2009) *Building Services Handbook (5th ed.)*, Butterworth-Heinemann, Oxford



Site plan, approximate scale: 1:500

All dimensions in metres

Assessment item	EXAMINATION
Examination advice: see below	
Recommended study programme for referred/deferred examination:	
<p>The August examination will have the same format as the May examination and there will be a one-hour revision session on Wednesday 20 July at 11.00am. Please report to the of Architecture and Construction office counter to be advised of the room allocated for this session.</p>	

Availability of course tutor for consultation:

If you are unsure about which of the above assessments you need to complete or have any other queries relating to them, please email Anthony Kelly (A.Kelly@gre.ac.uk) or telephone 0208 331 9031.