

Group Design Project: Consolidated Logbook

Alex Booth

May 4, 2021

1 Meeting Dates

1. 14/02/2021
 2. 25/02/2021
 3. 04/03/2021
 4. 07/03/2021
 5. 10/03/2021
 6. 29/04/2021
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2 Meeting 1 Notes

- SRO (senior responsible owner)
 - Project brief
 - SMART
 - Scope of the project
 - Defining quantified benefits
 - £ Costs
 - RT60
 - Floor plans
 - Equipment
 - We need to know the surface area of the entire building
 - How many pupils in each room at a given time?
 - Computer requirements?
 - Musical instruments?
 - Equipment lockup? Other security
 - AC systems
 - Insurance
 - VAT
 - Accessibility
 - Comply with educational legislation
 - REDNET
 - Each control room fulfils a different task
 - 4 CONTROL - 6 LIVE ROOMS - 2 PRACTISE - KITCHEN - FRONT DESK - LOUNGE
 - Commercial noise assessment roads? contracts?
 - Commercial electricity rates
 - 3D model
 - JACK - musical equipment // DUARTE - floor plan // ALEX - room acoustics and compliance // GUNES - 3D modelling software acoustics modelling software // SILVIU - IT // Jake - mundane stuff
 - I NEED TO CONSIDER:
 - RT60
 - Wait for duartes floor plan then draw up compliance requirements
 - outside acoustical requirements
 - which software can we use?
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3 Meeting 2 Notes

Key points of discussion:

- Discussion about real land in London: 160 Graham Road E8 London Hackney
- Discussion about building shape (L due to power transformer in the middle of the land), roads, underground train and railway line close
- With this we can search about real taxes and documents
- Next steps: floor plan, equipment and rooms
- Machine room with server cupboard and racks for converters (heat and noisy fans)
- Lounge with water and coffee machine
- Software for the design: blender or rhino
- Offering several packages – Level 1 (worst) to level 3 (best) including different types of equipment and services
- Computers – prebuilt computers and diy computers, mac or win

4 Meeting 3 & 4 Notes

Meeting @ 9:30 Thursday 4th March

Key points of discussion:

- Discussion about the presentation
- Delegation of roles for the presentation

Meeting @ 17:00 Wednesday 10th March

Key points of discussion:

- Discussion about the presentation

5 Meetings 5 & 6

Meetings 5 spent discussing final alterations to room acoustic treatment. Meeting 6 spent consolidating notes and beginning to plan formal report contents.

6 My responsibilities and activities

6.1 Week One

- Reading and understanding the relevant legislation to the acoustic built environment in schools.
- Beginning to research industry methods of studio construction with room acoustics in mind.
- Discussed my delegated tasks with the group
- Began to develop an idea of the benefits of using a case study.

6.2 Week Two

- Presenting my findings from the previous week's research to my group.
- Presented and developed the idea of the 160 Graham Road case study to the group members not involved in the initial idea of the study.
- Investigated built environment acoustic modelling software solutions

6.3 Week Three

- Making detailed notes on Lecture 3 and conducting further research - lec. 3 contained relevant information for my role

- Discarding the idea of using complex modelling software - most of mathematics needed for my work can be done as a series of algebraic equations and as such finite element analysis was not needed.
- Beginning to research methods of designing absorbers to target specific frequencies.

6.4 Week Four

- Analyzing the floor plan produced by another group member, and discussing tweaks to better fit acoustic criteria.

6.5 Week Five

- Preparing for presentation
- Making total absorption requirement calculations for each room.

6.6 Week Six

- Giving presentation
- Making notes and plans based on feedback

6.7 Week Six - Present