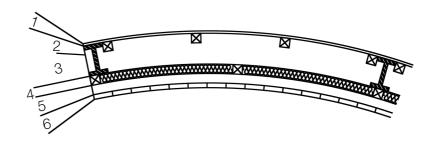


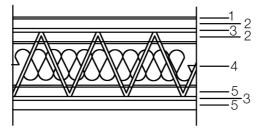
STRUCTURAL EXPLANATION

The outer most, glazed curtain walls are not structural. The loads are transfered to the formed concrete roof which is cantilevered over the North, East and South sides. The roof transfers its load to the steel column structural walls of the auditorium below and to two columns in the lobby. From here the load of the building is tranfered into a concrete isolated spread footings foundation under the auditorium - with a more lightweight raft foundation underneath the walkways and rehearsal room as shown in the drawing to the right.

EXTERIOR WALL DETAIL [1:20]

- 1: Flexible Plasterboard
- 2: Flexiboard Framework
- 3: Structural Steel
- 4: Vertical Timber Frame
- 5: Horizontal Timber Frame
- 6: Vertical Timber Cladding

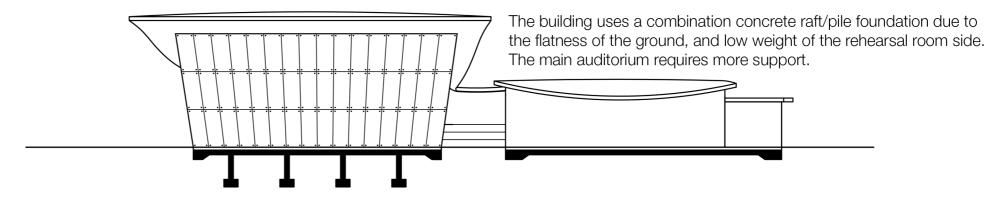


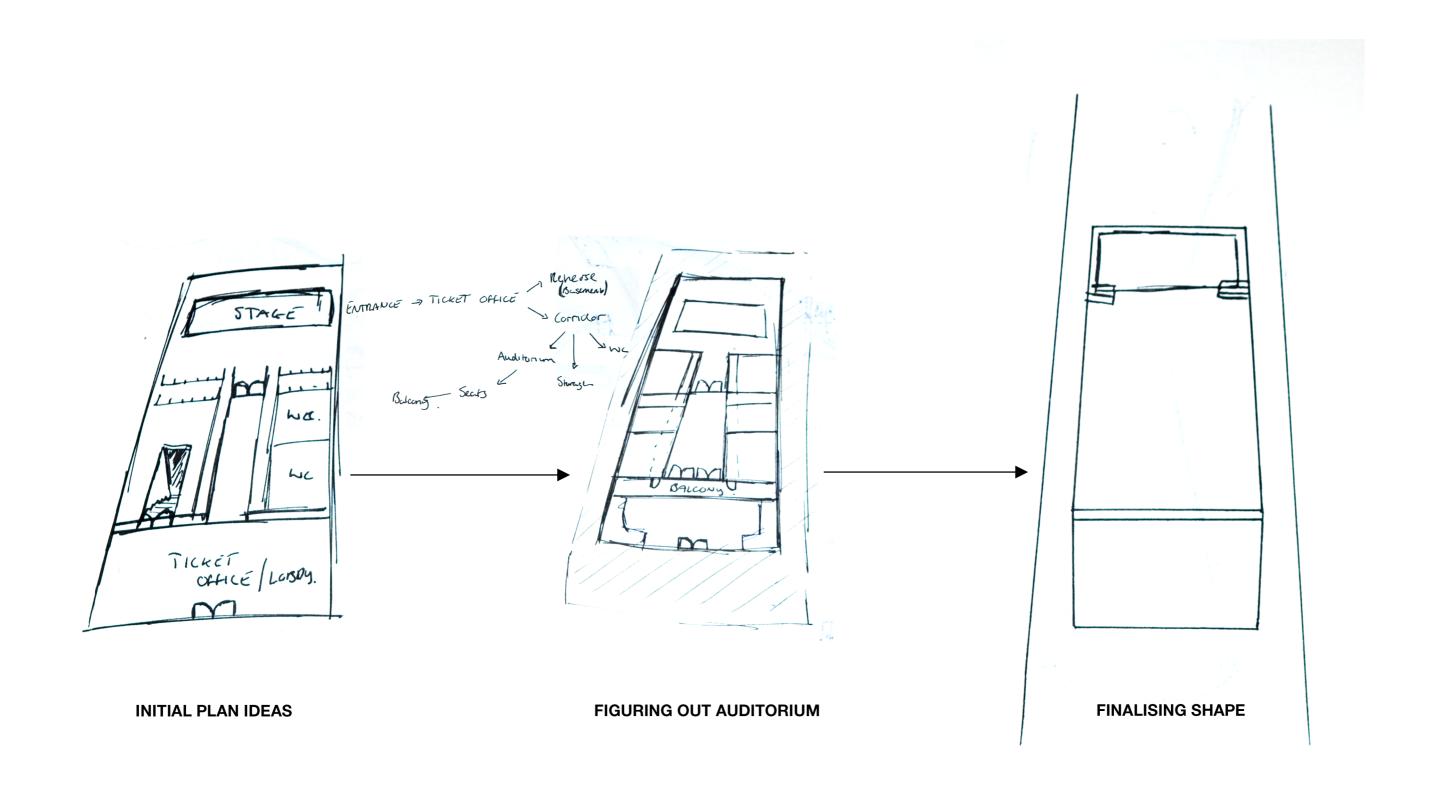


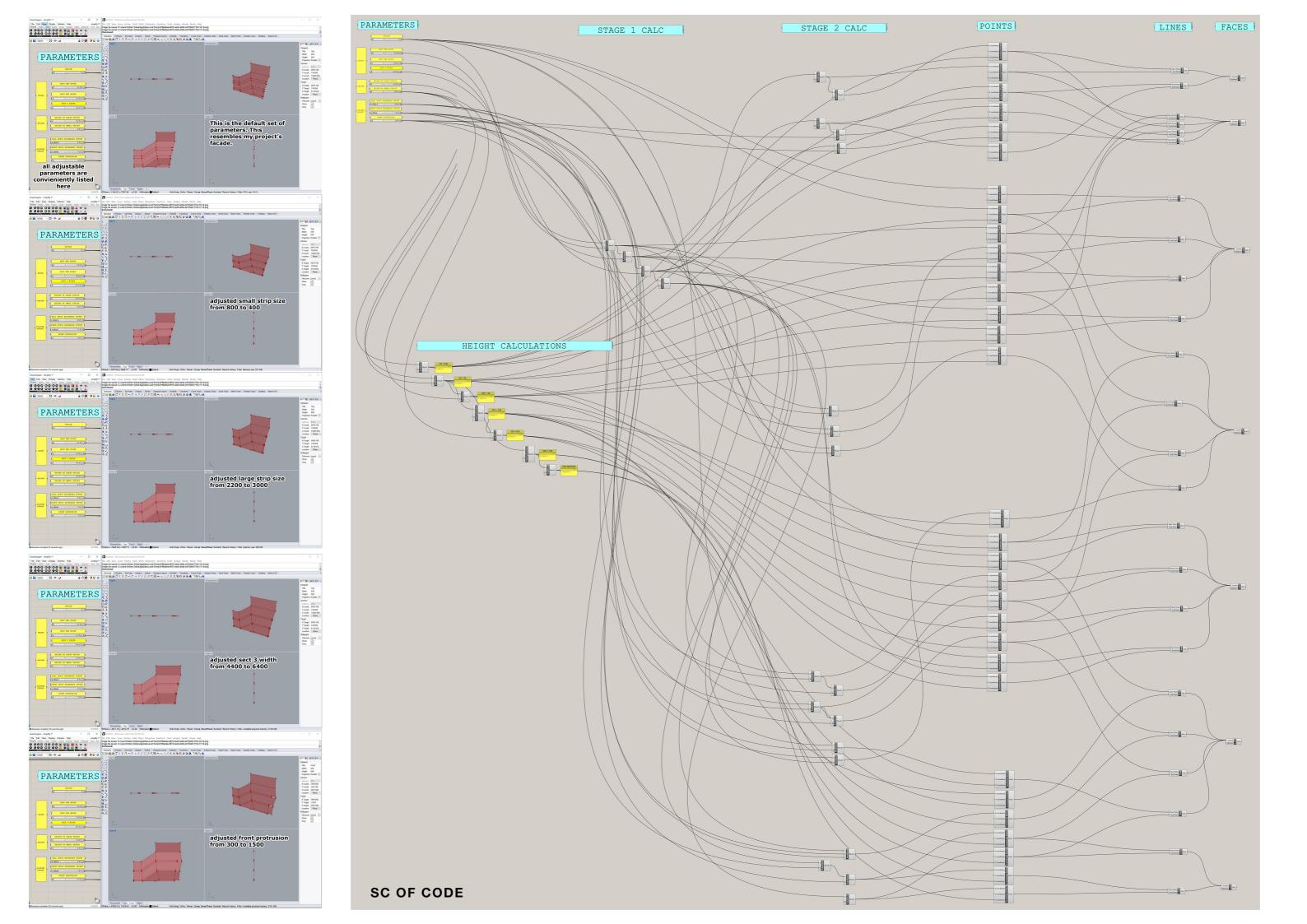
ROOF DETAILS

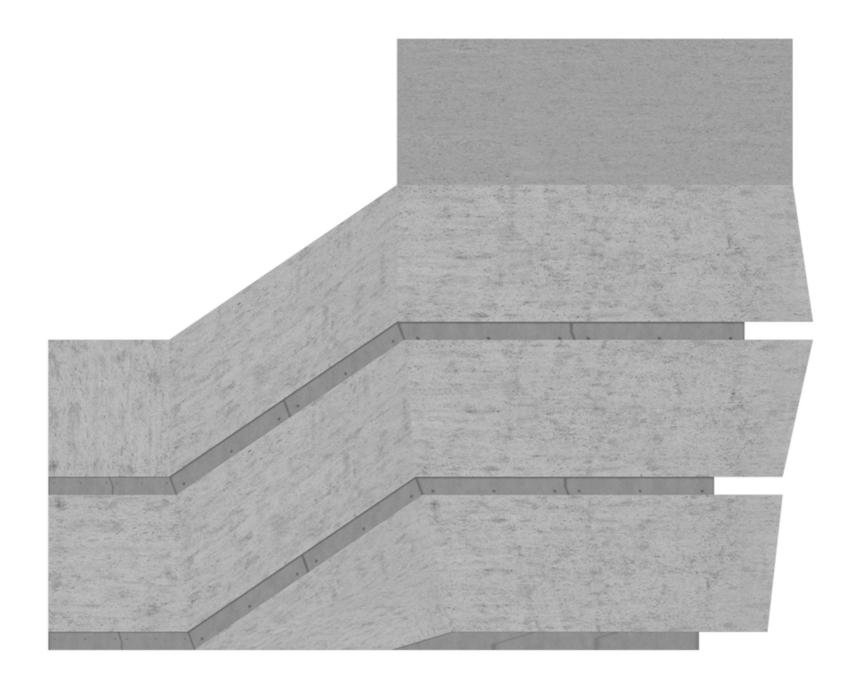
- 1: Waterproof Membrane
- 2: Outer Concrete Skin
- 3: Steel Reinforcement Truss
- 4: Rigid Foam Insulation
- 5: Inner Concrete Skin

Concrete was chosen for the roof material for two reasons, despite not being the most sustainable.
Concrete acts as a thermal mass which will be essential in keeping the building passively cooled. It is also structurally appropriate for the cantilevers and shapes that are so prominant in the roof design.









GEOMETRY FROM GRASSHOPPER, RENDERED IN CINEMA 4D