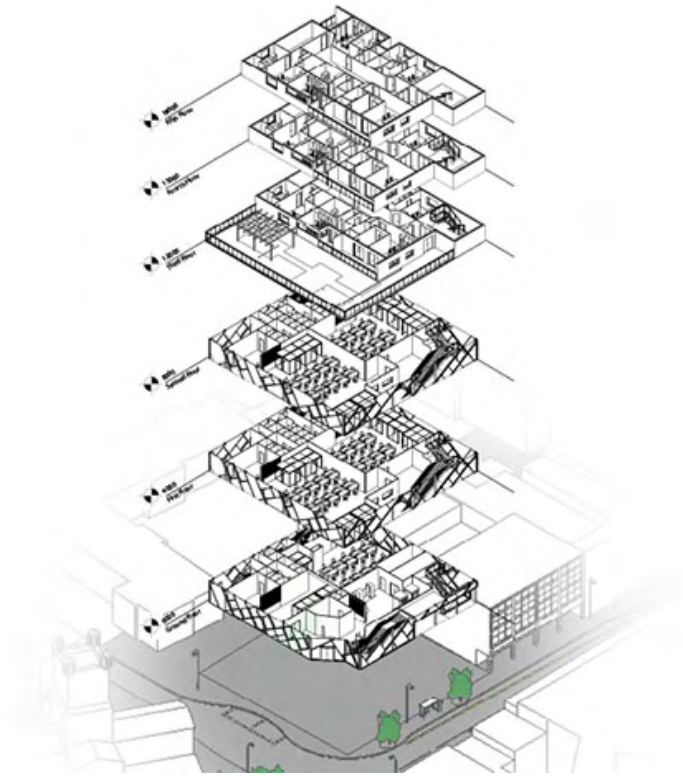


Portfolio



Adam Dhawan

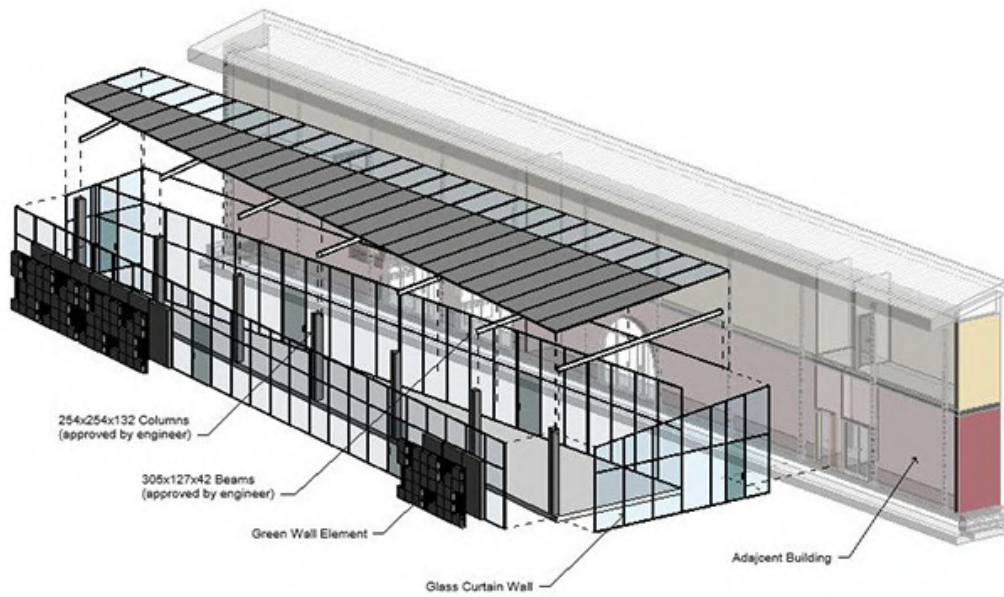
Architectural Technology BSc Student



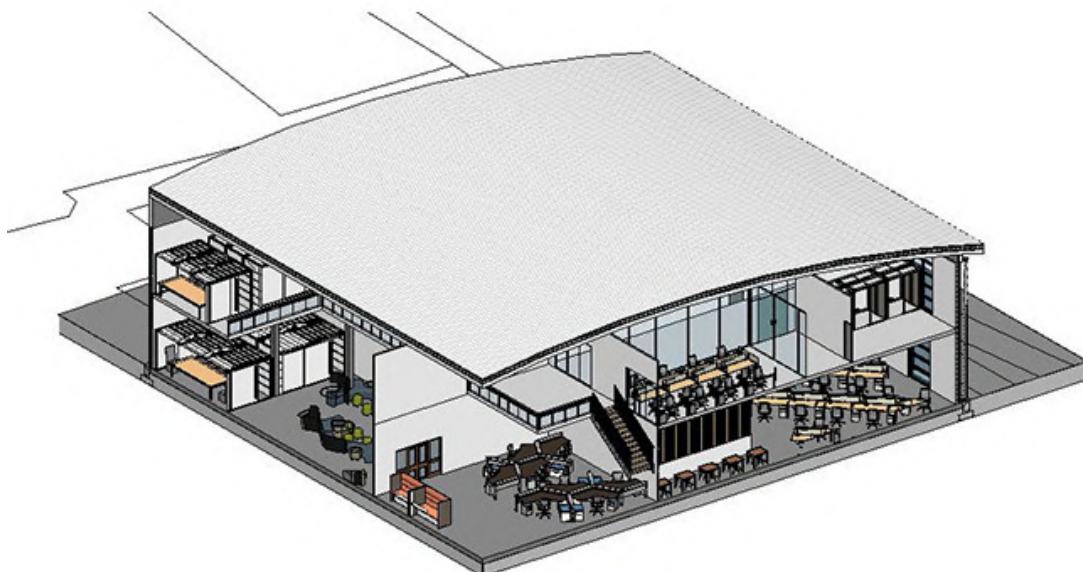
Website Portfolio

<https://adamdhawan.me.uk/>

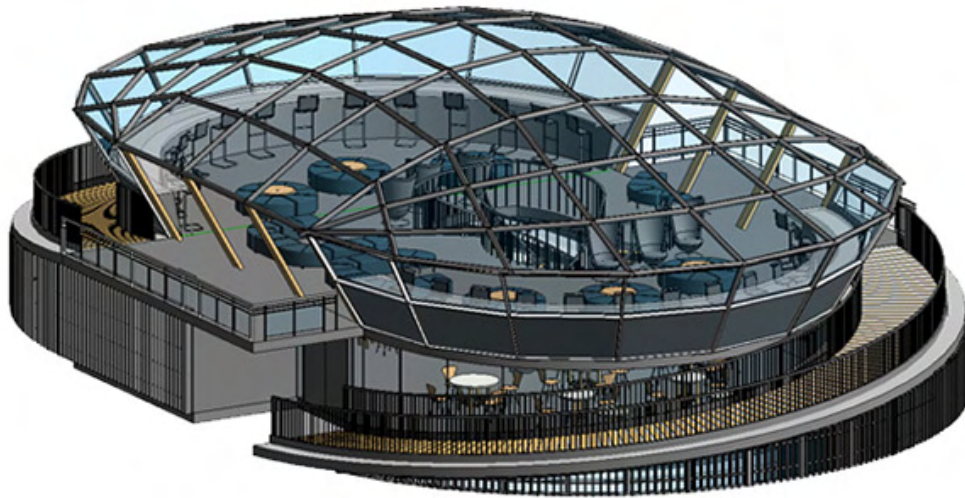
Revit



Exploded Structural Proposal ○ Educational Facility



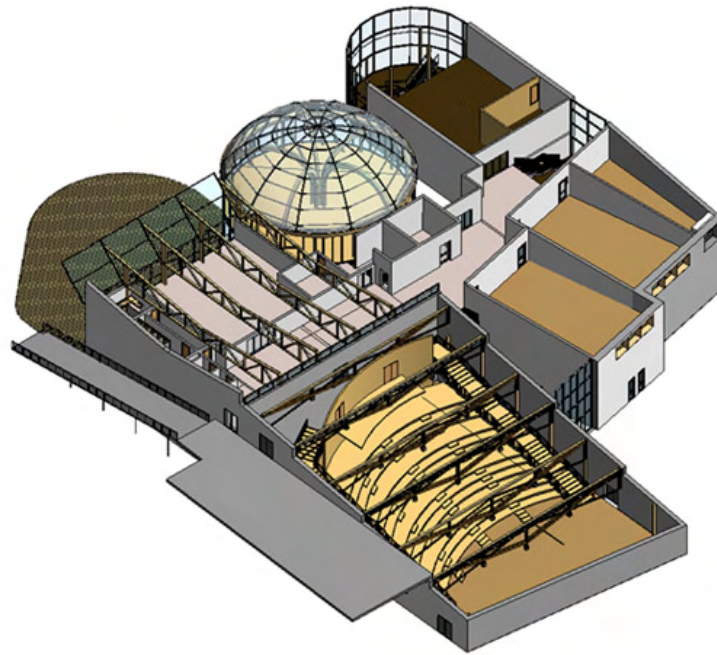
Layout Proposal ○ Educational Facility



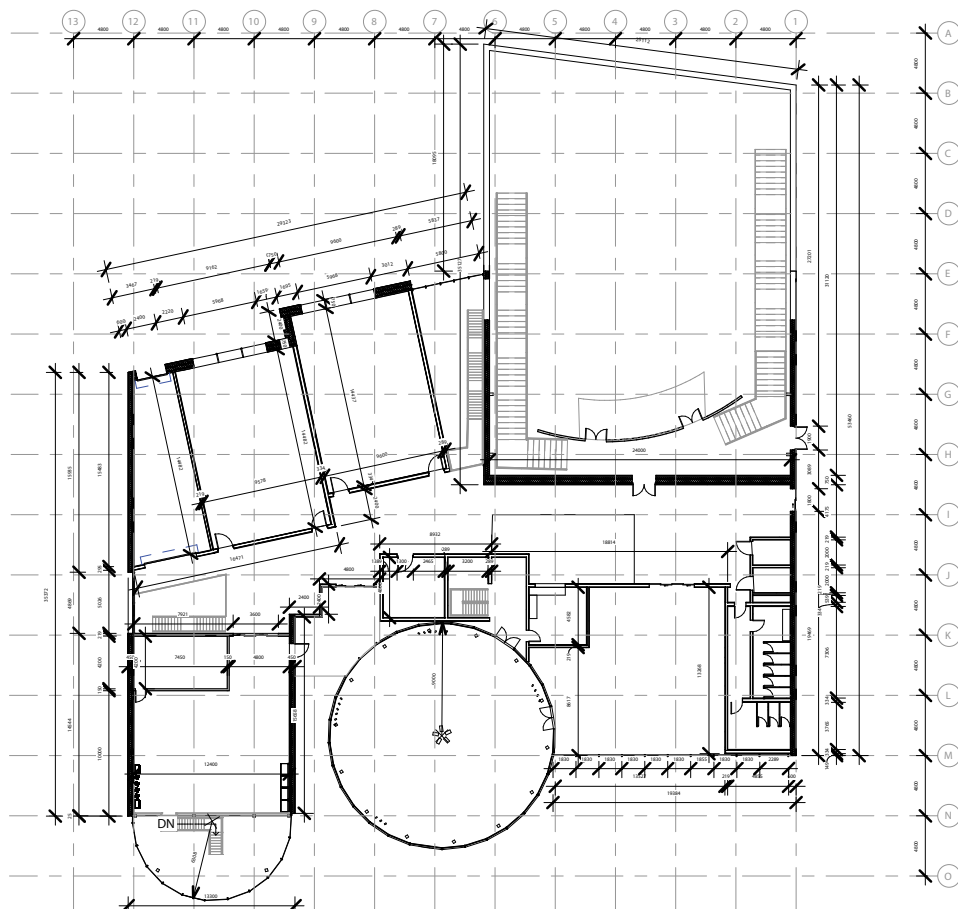
Initial Proposal ○ Park Restaurant



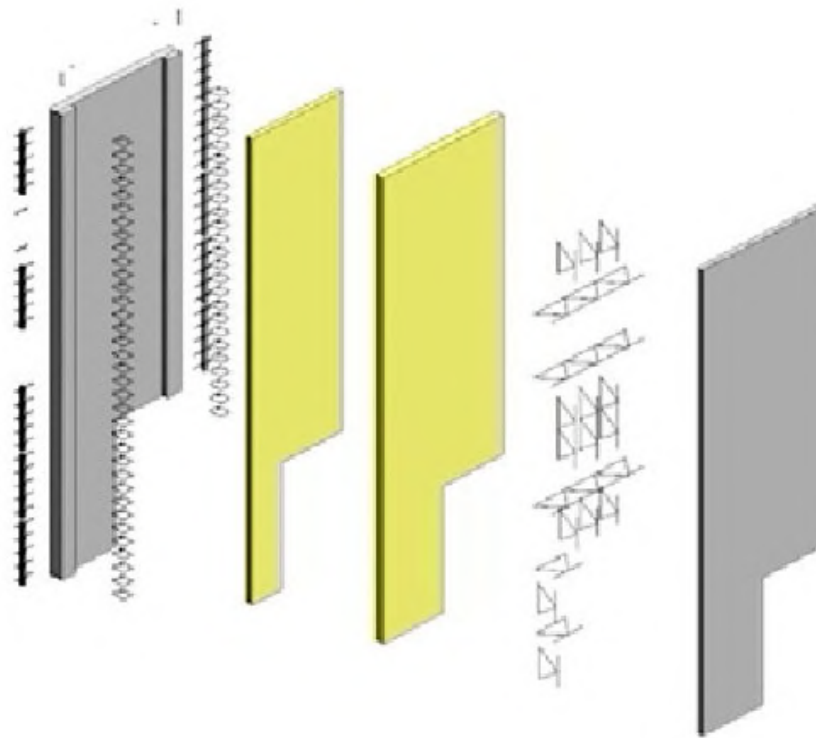
Bowling Alley ○ Based of Construction Drawings ○ Henry Boot Placement



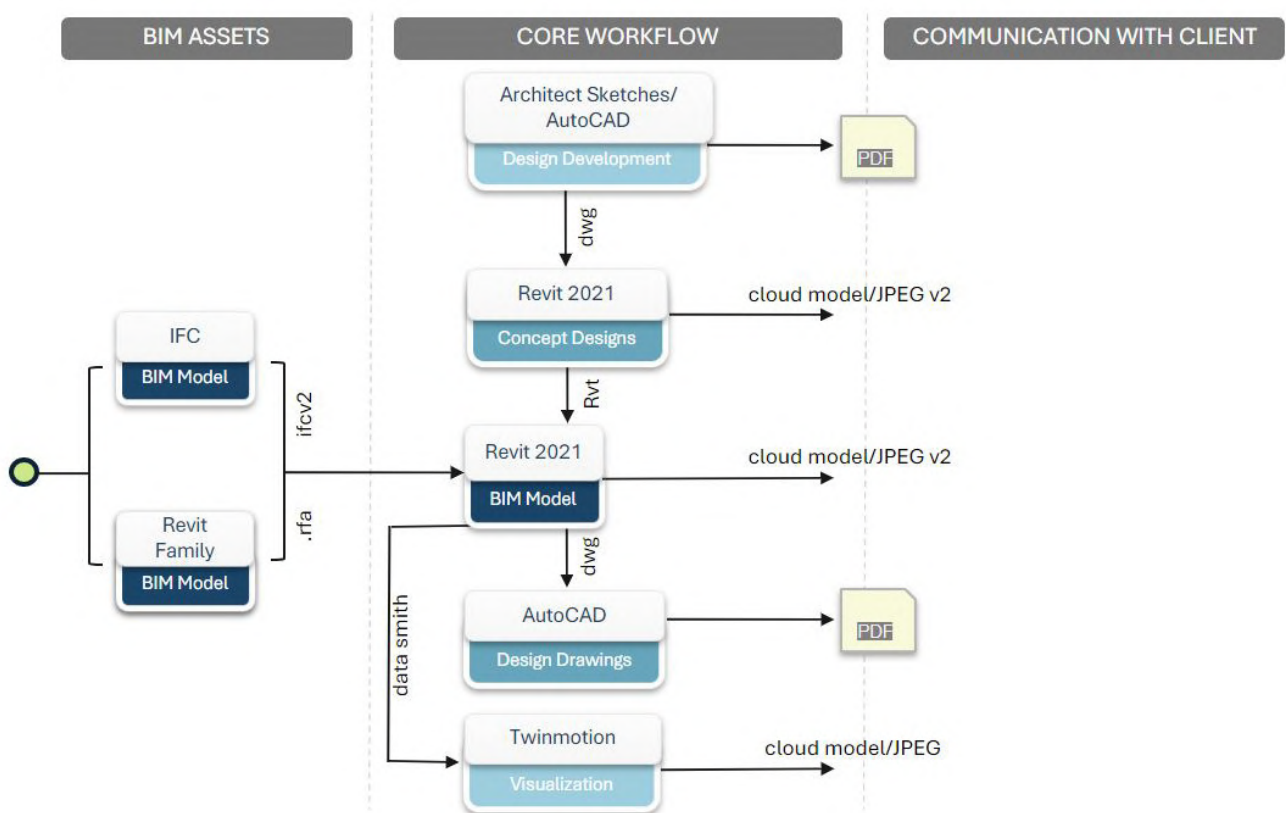
Design Proposal ○ Alpine Leisure Facility



Layout Proposal ○ Alpine Leisure Facility

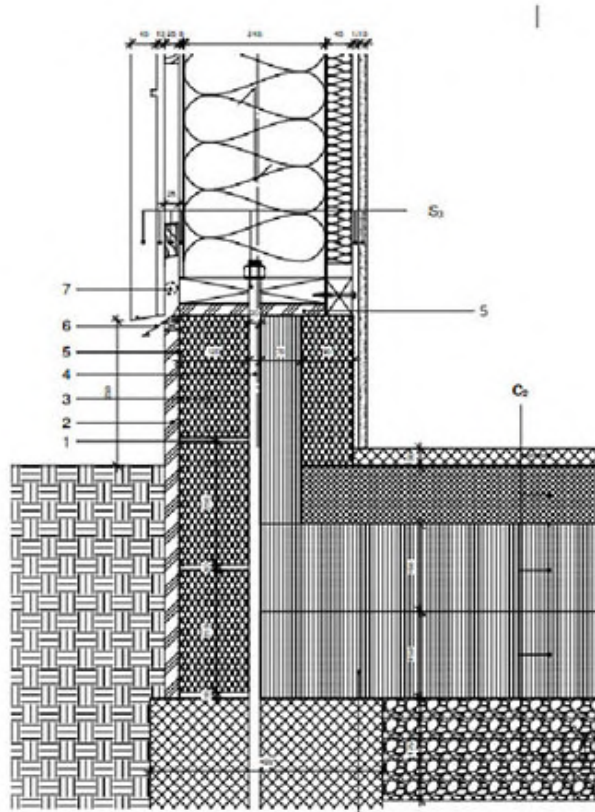


Exploded View of Prefabricated Concrete Element ◦ Creating Revit Families

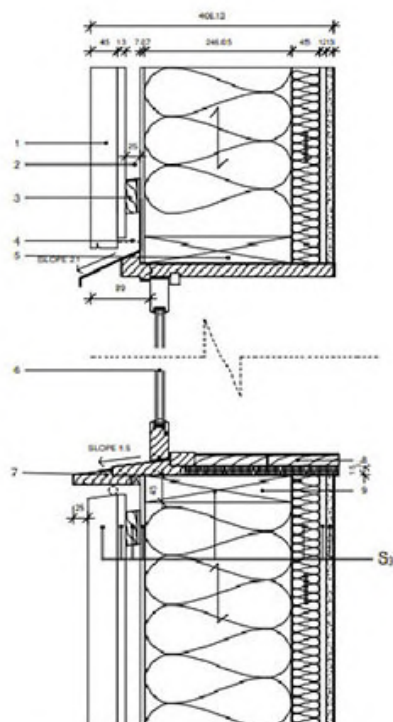


BEP workflow diagram ◦ Group Project

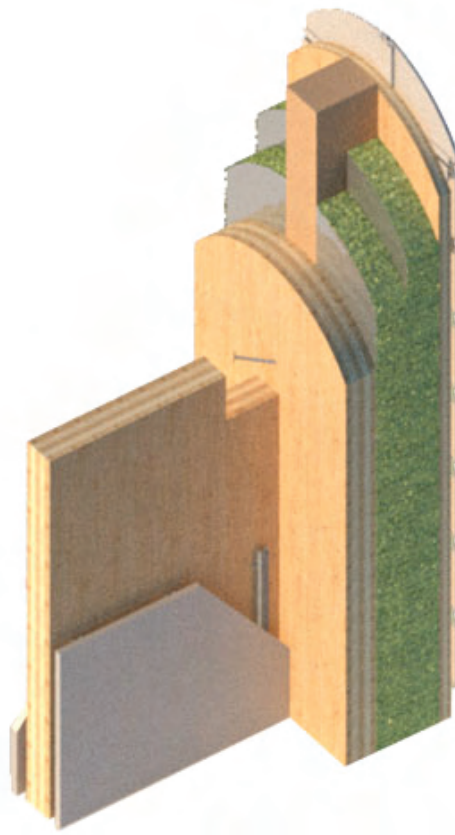
Detailing



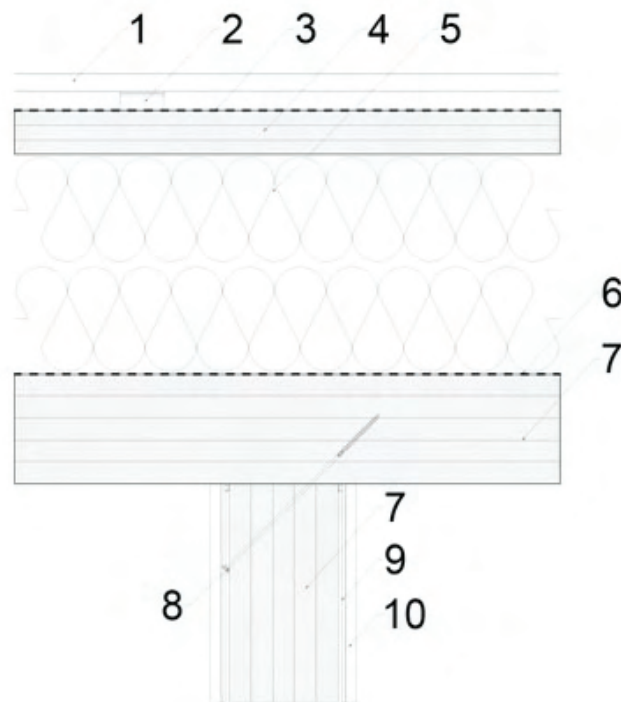
Foundation Connection To Prefabricated Timber Facade ○ Revit



Window Within Prefabricated Timber Facade ○ Revit

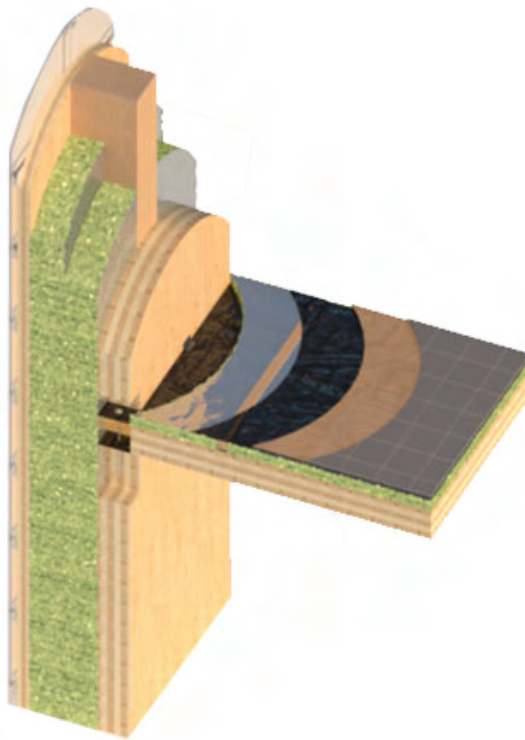


Connection Between CLT Wall Elements ◦ SketchUP (VRAY)

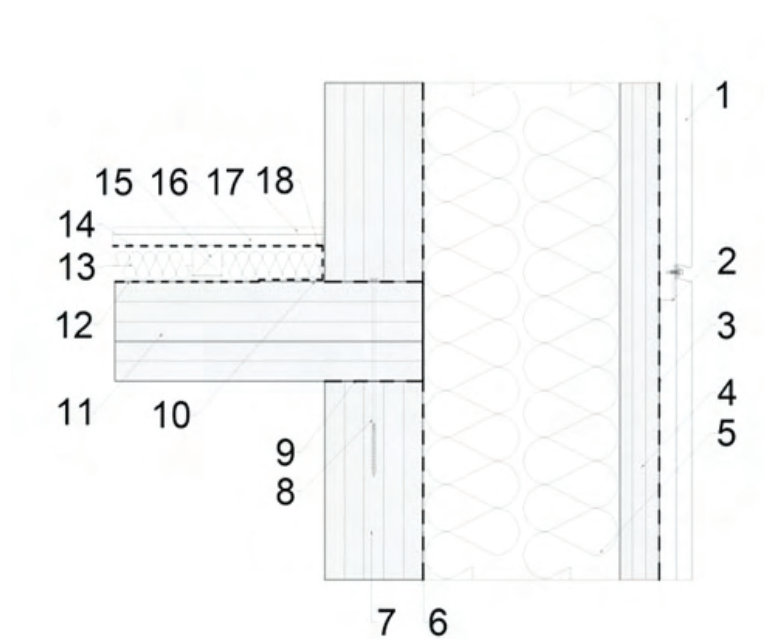


Connection Between CLT Wall Elements ◦ AutoCAD

1. 5000x500x50 VulcaLap recycled extruded 6063T6 Aluminium Alloy Rainscreen Cladding with tongue and groove. Powder Coated with non-stick RAL 7035 Light Grey Coating.
2. 40mm VulcaLap recycled Aluminium Z Profile
3. PTFE Breather Membrane (Water and Wind Resistant) applied across entire face
4. 60mm KHT Prefabricated CLT Panel constructed from C24 3S Layers
5. 2400x1200x150mm (2 Layers) Rockwool XPS Rigid Insulation (0.40 W/mK)
6. 500 Gauge PTFE Vapour Membrane
7. 150mm KHT Prefabricated CLT Panel constructed from C24 5S Layers
8. Self Drilling Timber Screw (Size and spacing dependant on expected shear forces as calculated and approved by engineer)
9. 10mm Variotherm Plasterboard Extruded Aluminium Mounting System
10. 2400x1200x15mm Variotherm Plasterboard Panel including Ø10mm Preinstalled Radiant Heating Pipes

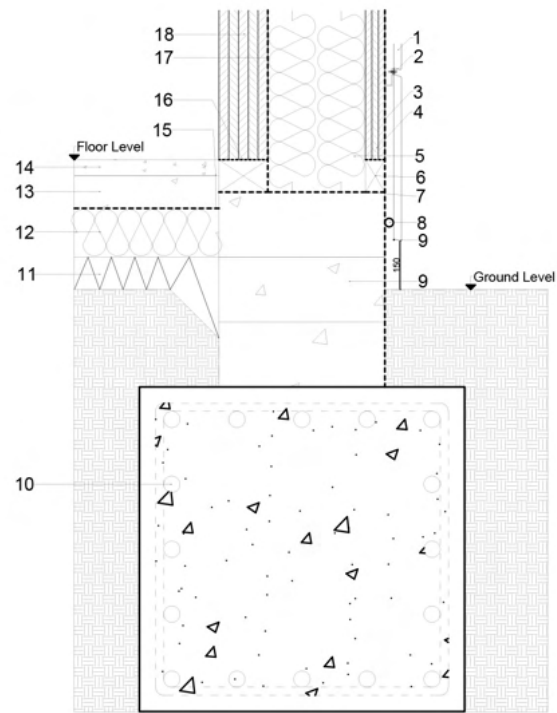


Structural Connection Between CLT Floor And Floor ○ SketchUP (VRAY)

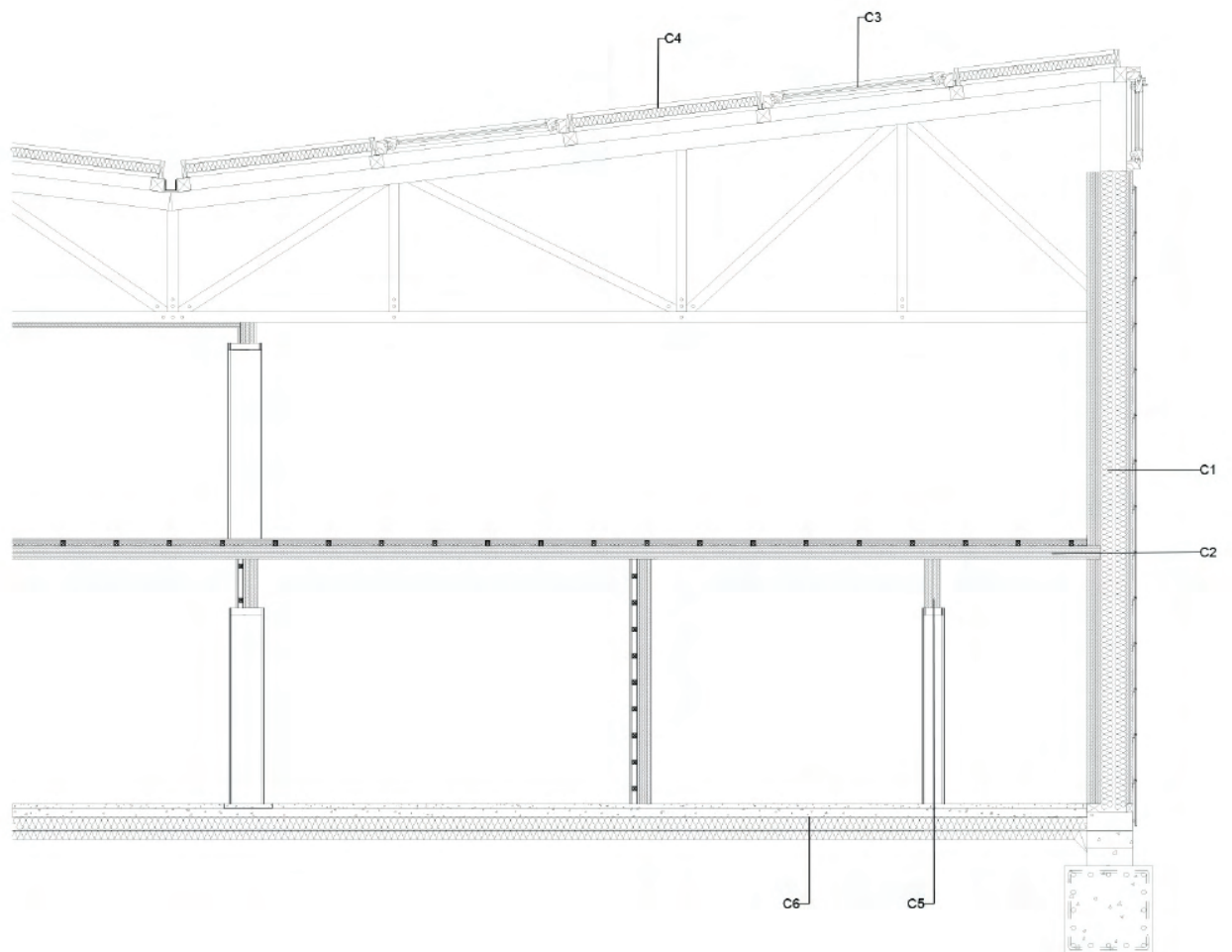


Structural Connection Between CLT Floor And Floor ○ AutoCAD

1. 5000x500x50 VulcaLap recycled extruded 6063T6 Aluminium Alloy Rainscreen Cladding with tongue and groove. Powder Coated with non-stick RAL 7035 Light Grey Coating.
2. 40mm VulcaLap recycled Aluminium Z Profile
3. PTFE Breather Membrane (Water and Wind Resistant) applied across entire face
4. 60mm KHT Prefabricated CLT Panel constructed from C24 3S Layers
5. 2400x1200x150mm (2 Layers) Rockwool XPS Rigid Insulation (0.40 W/mK)
6. 500 Gauge PTFE Vapour Membrane
7. 150mm KHT Prefabricated CLT Panel constructed from C24 5S Layers
8. Self Drilling Timber Screw (Size and spacing dependant on expected shear forces as calculated and approved by engineer)
9. Fire and Smoke Resistant Joint Tape
10. BMT 3mm Galvanised Steel Angle Bracket (every 1200mm) attached with CWA Screws (as approved by manufacturer)
11. 150mm KHT Prefabricated CLT Panel constructed from C24 5S Layer
12. 1200 Gauge Polythene DPM
13. 2400x1200x50mm Rockwool XPS Rigid Insulation (0.35 W/mK) - cut with 7% slope
14. 500 Gauge Breathable PTFE Vapour Barrier
15. 45x45 C16 Rot Resistant Softwood Timber Battren with 9mm Reflex Barriers adhered to underside - compresses to 4mm under loading
16. 18mm SoundDeck overlay acoustic floor board - connected to Timber with Nails
17. 600x600x10 Non slip Flmatto Hammered Granite Tile - Chemically Adhered as by manufactures specifications
18. 10mm Overlap of Membraines connected with tape



Structural Connection Between CLT Floor And Floor o AutoCAD



Section o AutoCAD

Renders



View from Street ◦ Multi-Use ◦ Lumion



View of Office ◦ Multi-Use ◦ Lumion



View from Street ○ Educational Facility ○ Twinmotion



Lecture Theatre ○ Educational Facility ○ Twinmotion



Section ◦ Residential ◦ Vray (SketchUP)

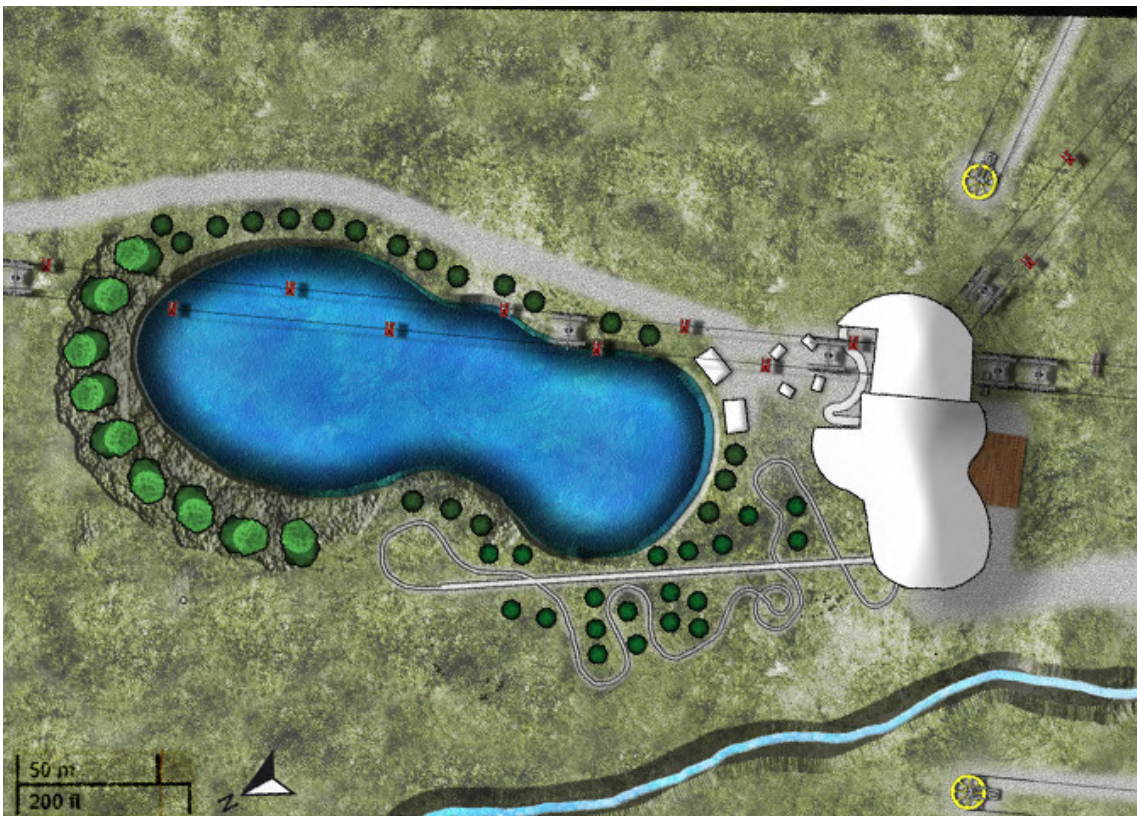


Bedroom ◦ Residential ◦ Vray (SketchUP)

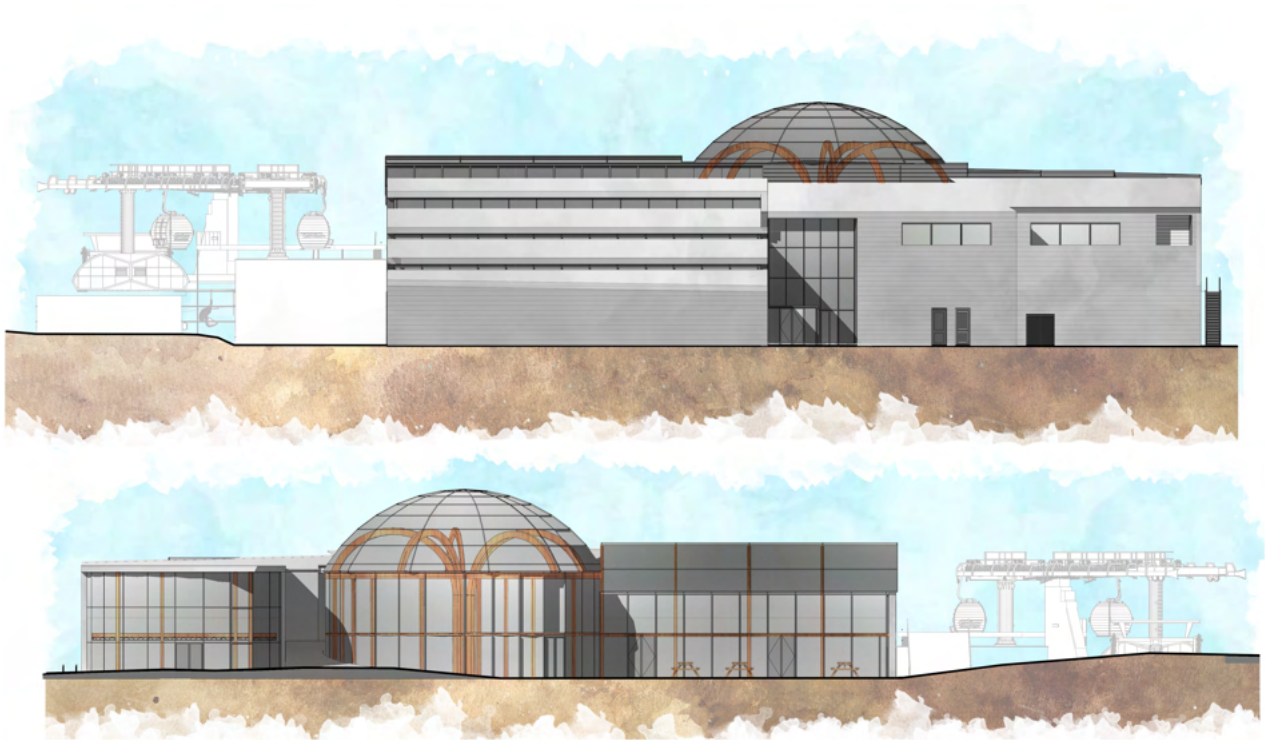
Adobe Suite



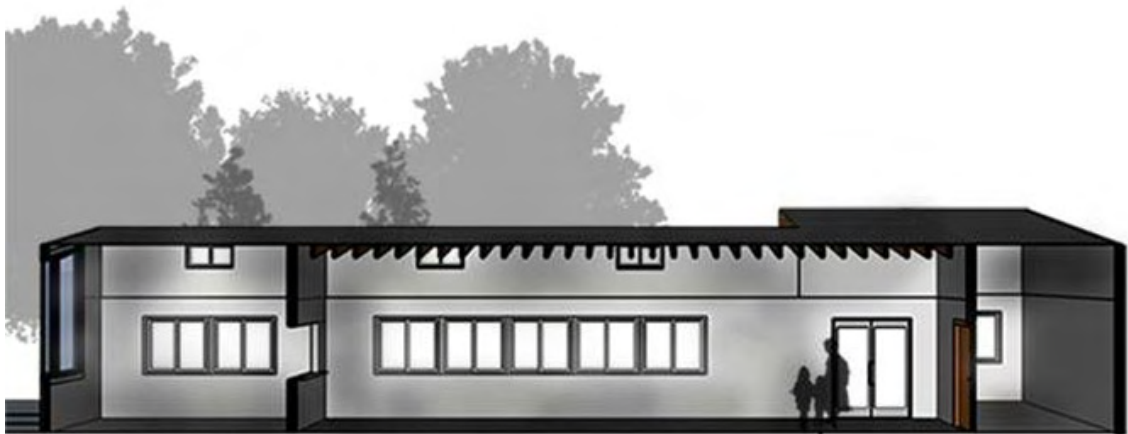
Masterplan ◦ Park Restaurant ◦ Photoshop + Illustrator



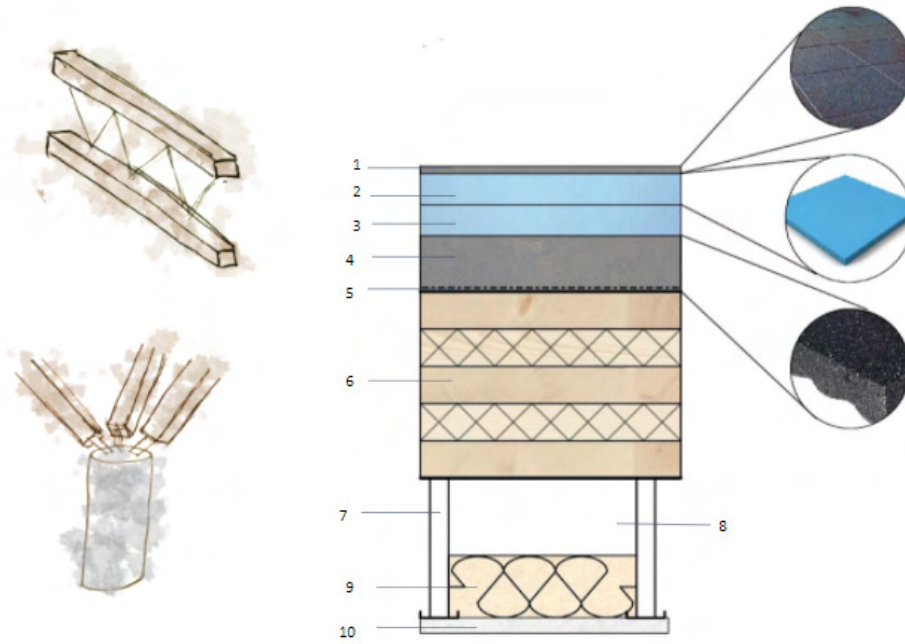
Development Proposal ◦ Cairngorm Ski Resort ◦ Photoshop



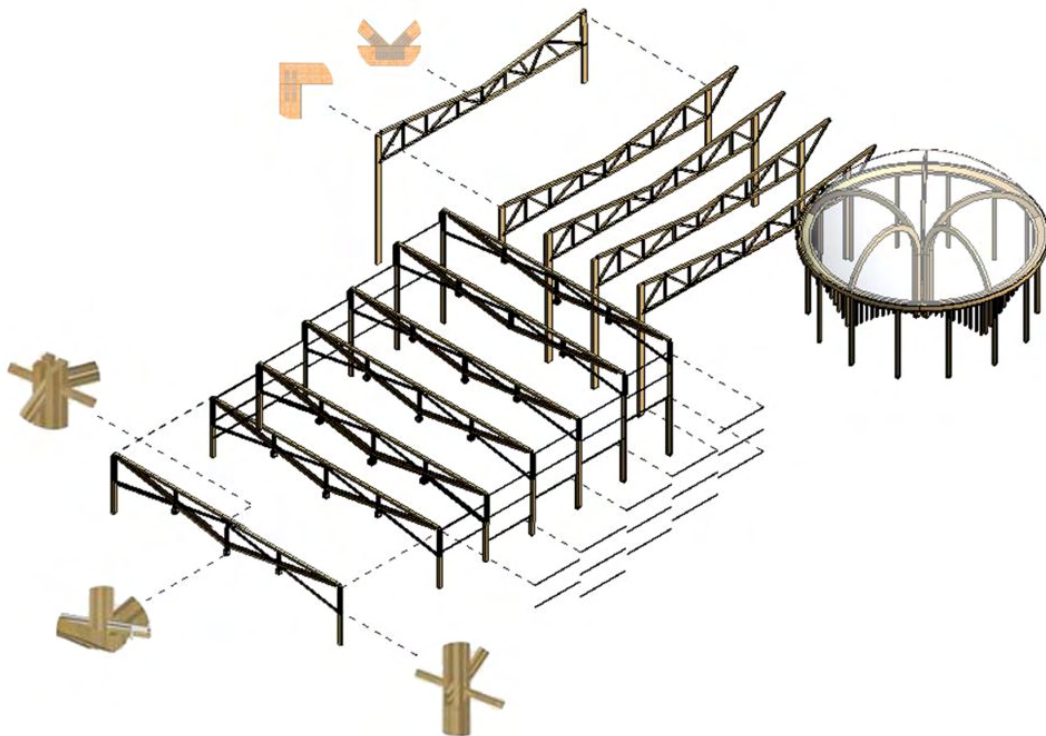
Elevation Proposal ◦ Cairngorm Ski Resort ◦ Photoshop



Section Proposal ◦ Community Centre ◦ Photoshop



Structural Proposal ○ Cairngorm Ski Resort ○ Photoshop



Freestanding Truss Structure ○ Cairngorm Ski Resort ○ Photoshop



Adobe Premiere