



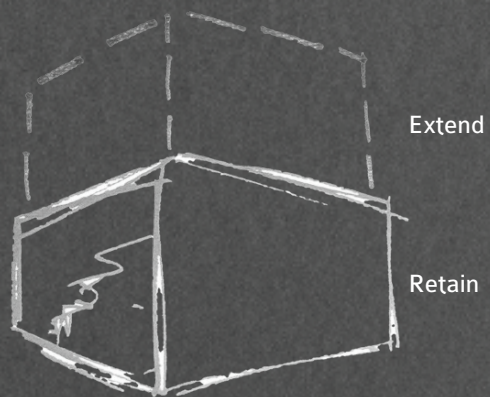
TIMOTHY LAHAISE
SAMPLE PORTFOLIO

ALVA STREET MEWS. Morgan Architects

"Mews" buildings were old stable buildings which sat across the gardens to the rear of historic townhouses, facing out onto a narrow lane. This project sought the development of one such building from a single-storey dilapidated garage into a 3-storey office building. Located within Edinburgh's New Town - a UNESCO World Heritage Site known for its Georgian-era Neoclassical townhouses - planning permission would be granted only for applications that respected and enhanced the historical character of the surrounding area. The client, however, wanted a modern design to push the envelope of the usual developments in the area.

My solution - retain the rough and crumbling brick walls and slot behind a new 3-storey corten steel volume - thereby enshrining history and beauty wrought through age in the aesthetics of the design.

As the project architect, I was responsible for spearheading the design, development and coordination of this project, which is currently seeking planning permission from Edinburgh Council.



Retention of Existing Walls.
Upward Extension.



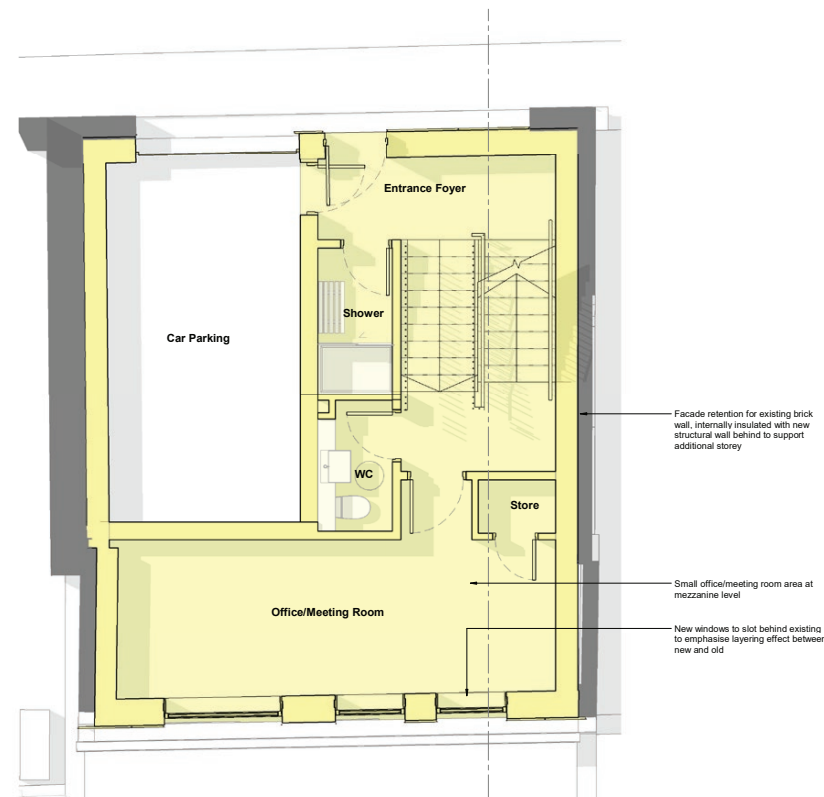
Front Elevation as Existing



Rear Elevation as Existing

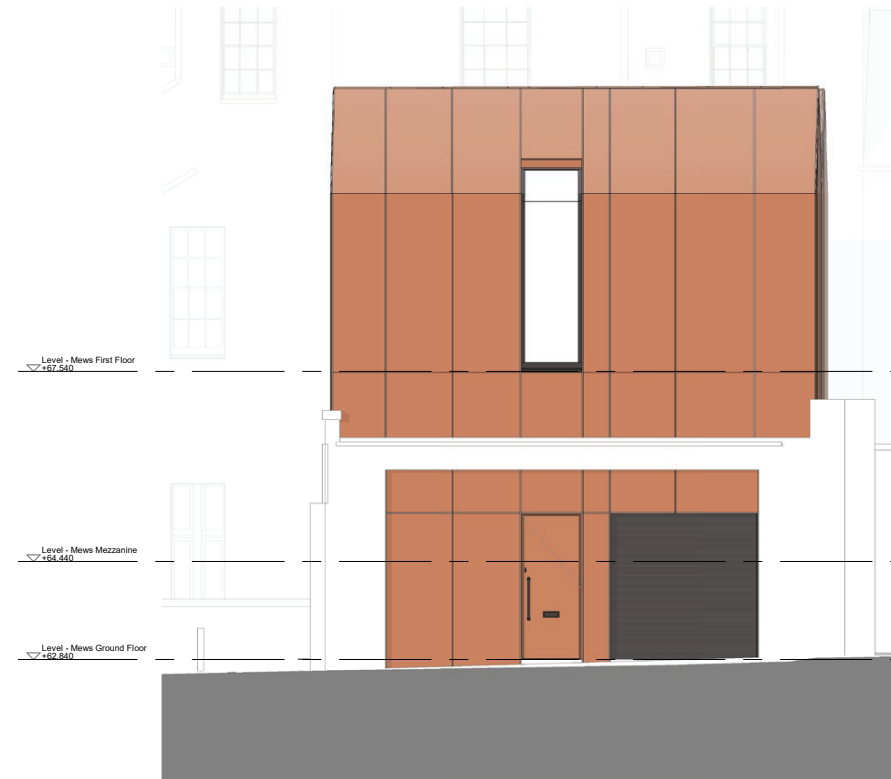


CGI as Proposed



Ground Floor and Mezzanine Floor Plan

- Existing Construction
- New Construction



Front Elevation

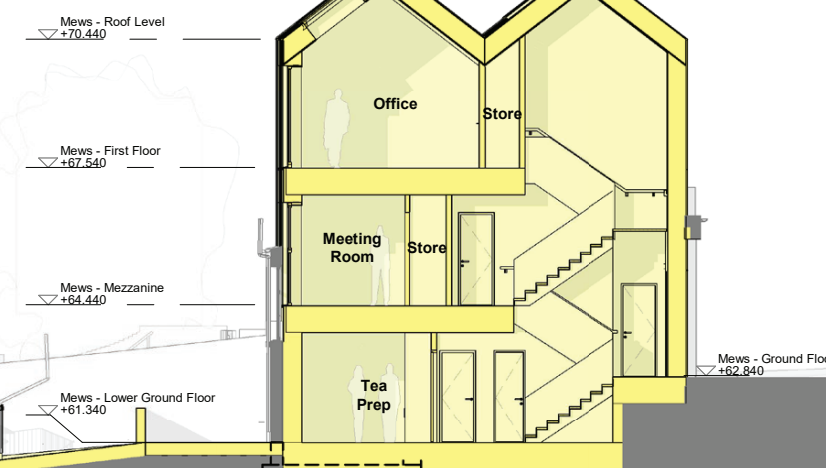


Rear Elevation

Refurbishment works to existing townhouse



3 Storey corten steel insert behind retained brick garage walls



Section as Proposed



Office Space as Proposed



Office Space as Proposed



Kitchenette as Proposed



Meeting Room as Proposed



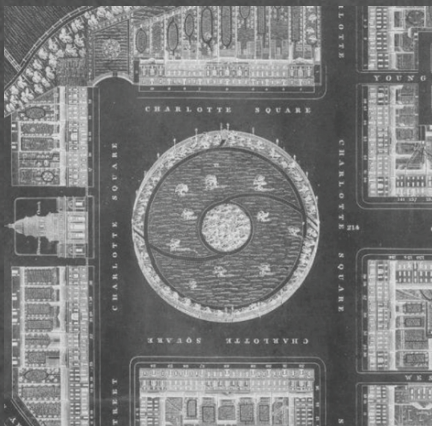
Internal Stair as Proposed

CHARLOTTE SQUARE. Morgan Architects

Over the past 15 years Morgan Architects has been working on the restoration and redevelopment of 18 properties on Charlotte Square - considered to be the crown jewel of the Edinburgh New Town UNESCO World Heritage Site for its grand palace-style building frontages in Neoclassical style from the Georgian era (completed circa 1820).

The historic nature of these buildings creates difficult technical challenges as our proposals navigate 200+ years of renovations utilising different construction techniques and standards in accordance with their times. Meanwhile, the building’s protected status presents statutory challenges gaining permission for development and requires a delicate approach and courtship of planning authorities to justify the proposals. All of which has provided me extensive experience in navigating complex architectural challenges of both a technical and administrative nature.

Throughout my time at Morgan Architects I assisted on several of these projects, and since qualifying as an Architect I managed the design of 2 projects on the square.



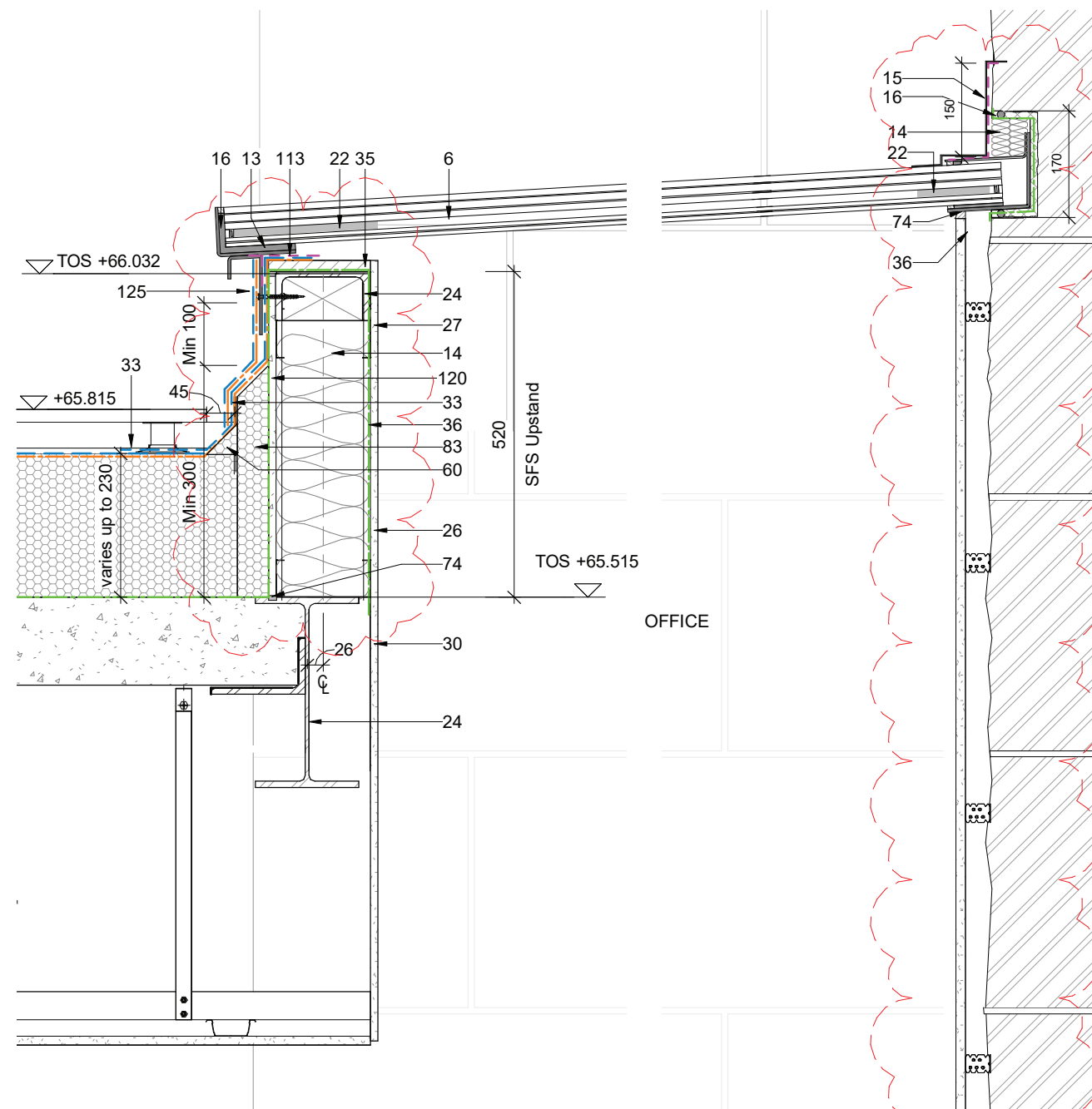
Charlotte Square Plan, 1819



Typical Charlotte Square Elevation (Charlotte Square 14)



Typical Charlotte Square Elevation Proposals (Charlotte Square 14)

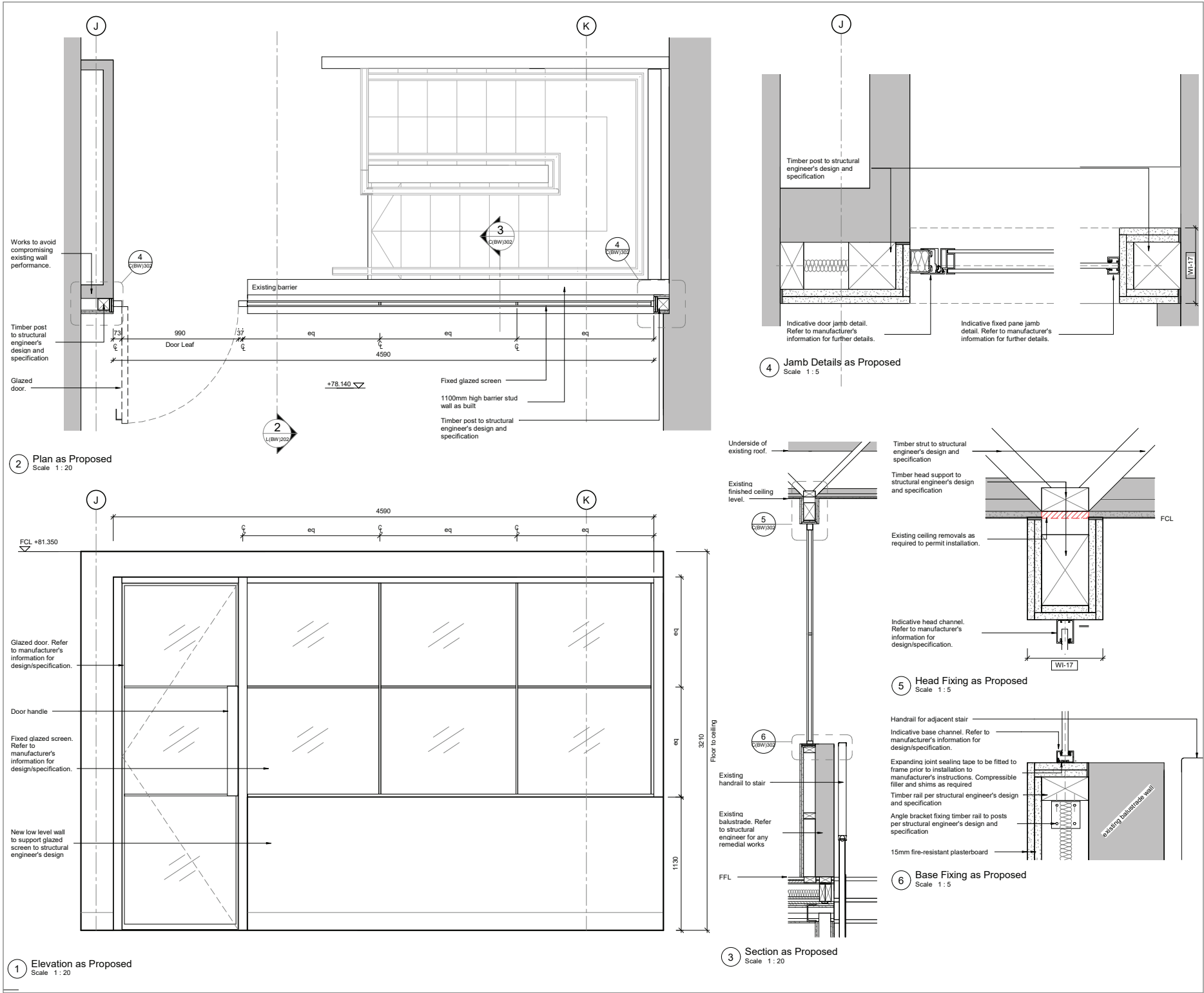


- | | | | |
|-----|---|------|---|
| 6. | Rooflight as product spec. | 33. | Waterproofing membrane and underlay to manufacturer's recommendations. |
| 13. | Expanding joint sealant tape to be fitted to frame prior to installation. | 35. | 18mm external grade plywood. |
| 14. | Mineral wool insulation packed into gaps. | 36. | Vapour control layer/breather membrane to be lapped and sealed to frame. |
| 15. | Aluminium closer trim. | 60. | Corner fillet. |
| 16. | External grade sealant to match frame. | 74. | Sealant (acoustic / intumescent where required to maintain performance) |
| 22. | Black obscured glass region as per manufacturer's design and specification | 83. | 50mm thick thermal insulation |
| 24. | Steelwork to structural engineer's design and specification, to be intumescently coated to meet required fire protection. | 113. | EPDM to overlap waterproofing membrane |
| 26. | SFS upstand to structural engineer's design and specification. | 120. | 12mm cementitious board |
| 27. | 15mm plasterboard lining. | 125. | Specialist to install secondary waterproofing to ensure rooflight fixings are watertight and weatherproofing continuous |
| 30. | 12mm fire-resistant board. | | |

Example Construction Detail: Concealed Frame Skylight (Charlotte Square 22)



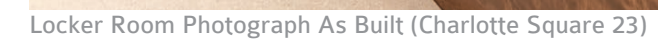
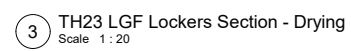
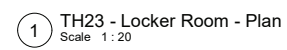
Concealed Frame Skylight Photograph as Built (Charlotte Square 22)



Glazed Screen Construction Drawing (Charlotte Square 21)



Glazed Screen Photograph As Built (Charlotte Square 21)

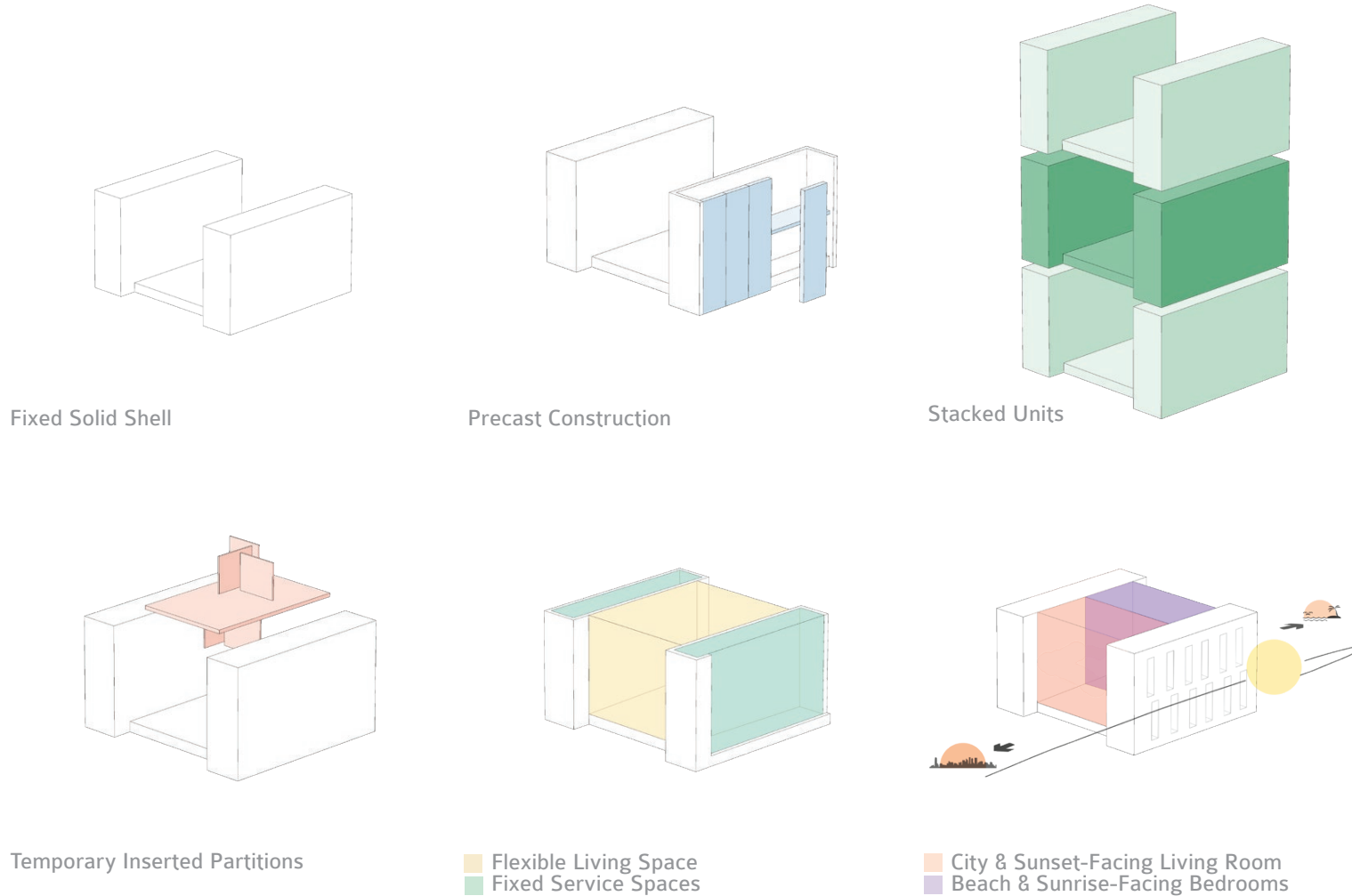
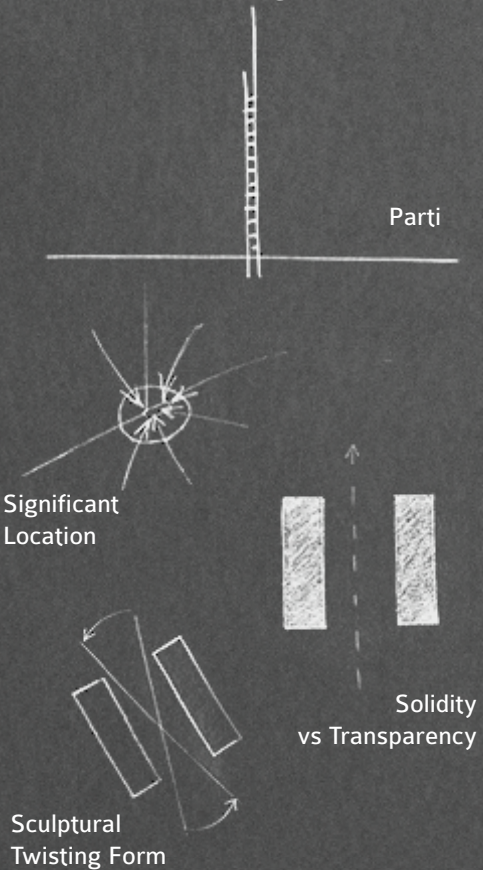


Locker Room Construction Drawing (Charlotte Square 23)



CASTLEHILL LIGHTHOUSE.
Scott Sutherland School of
Architecture

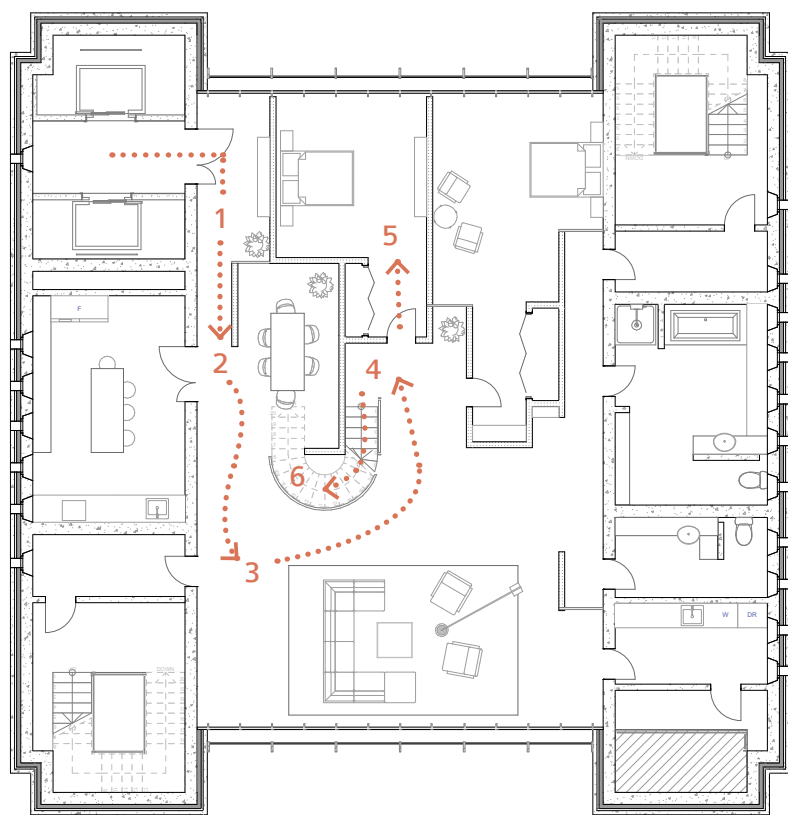
For my Master's thesis project I challenged myself to design a sculptural tower that would provide Aberdeen with a new landmark to revitalise interest and investment in it's dying city centre. Over the course of the project, I found myself increasingly interested in the design and layout of a single high end apartment. In particular, I became passionate about crafting the sequence of images revealed to the resident as one moved from one room to other. Programatically, I arranged the layout of the spaces with consideration to the interplay between; views of the beach vs views of the city; narrow vs open spaces; light vs dark; hard vs soft materials. Energetic spaces were given city-side views while relaxed spaces were given beach views. Open spaces were located in the flexible central space; service spaces in the flanking core walls.



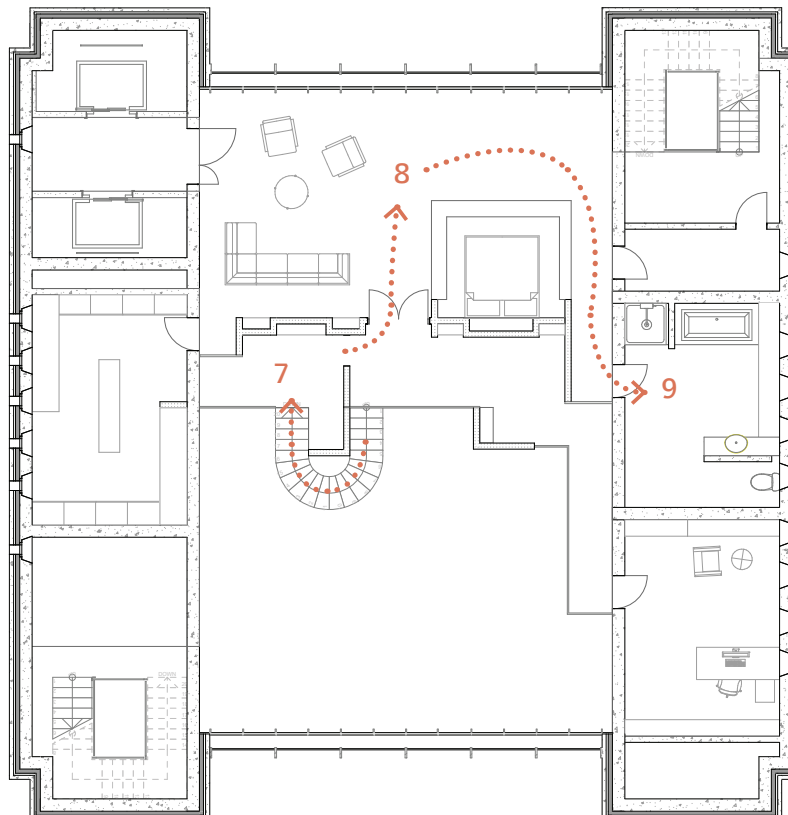
View From City Centre



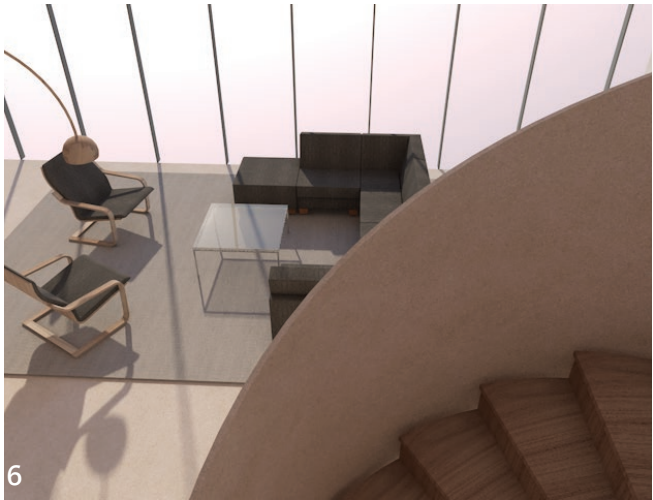
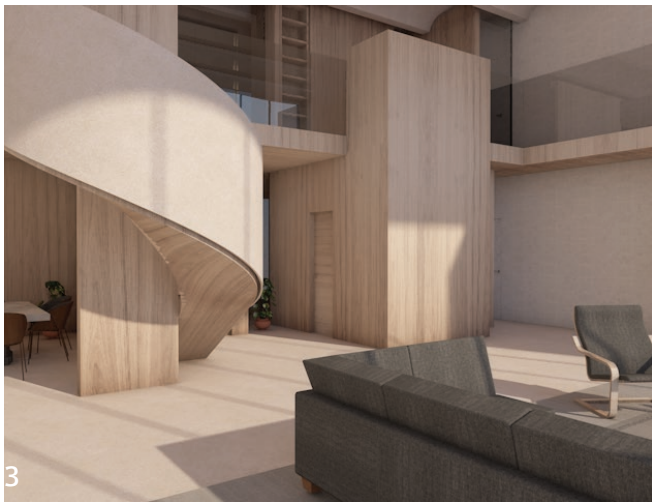
View From Beach Boulevard



Duplex Apartment Plan - Lower Level



Duplex Apartment Plan - Upper Level



Promenade Architecturale



Living Room Visual



Living Room View

MISCELLANEOUS.

Woodworking: I have recently taken up woodworking as a means to understand the practicalities of timber construction and to explore design at a smaller scale. Shown on the right is a side table I built using traditional methods, with mortice and tenon joints between studs and a timber dowel rail for the sliding drawer.

Product Design: Due to the ongoing pandemic and lockdown, the brief for my Masters' elective was centred around "up-cycling" everyday household items. Furthering this theme my product aimed to improve the video conferencing lighting conditions for the pandemic-fuelled work-from-home market. Since facial expression and non-verbal cues are a vital part of communicating face to face, the "Heljus" lamp was designed to provide a soft, even light for lighting the user's face, helping to improve communication over video-call.

Architectural Models: Throughout my career I have built a number of architectural models to illustrate designs in 3 dimensional space. A selection of these is shown on the right side of this page, demonstrating my familiarity with 3D Printing, balsa wood and card modelling at various scales.

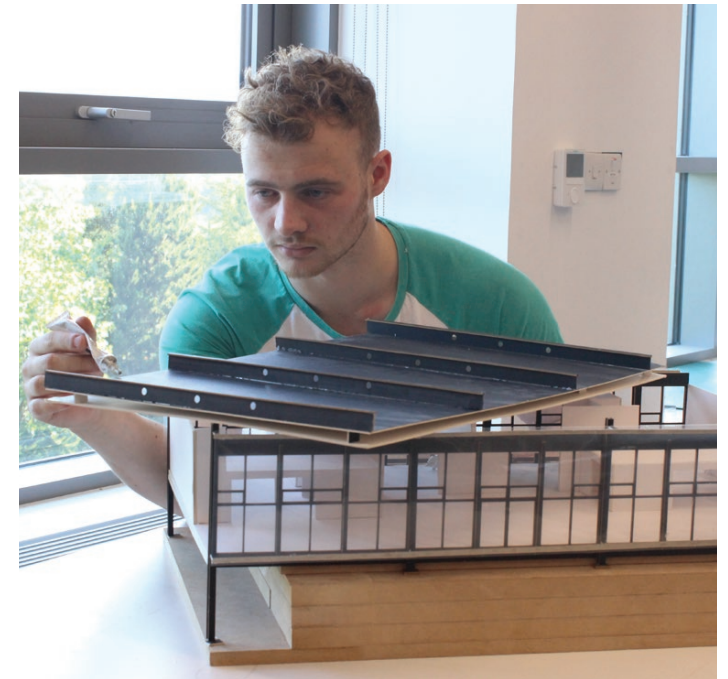
Photography: A small selection of my photography is shown on the following page, which has been a hobby of mine for many years. Through photography, I have learned how light, texture, composition of spaces, and hierarchy of architectural elements can be arranged to create strong images from a human perspective.



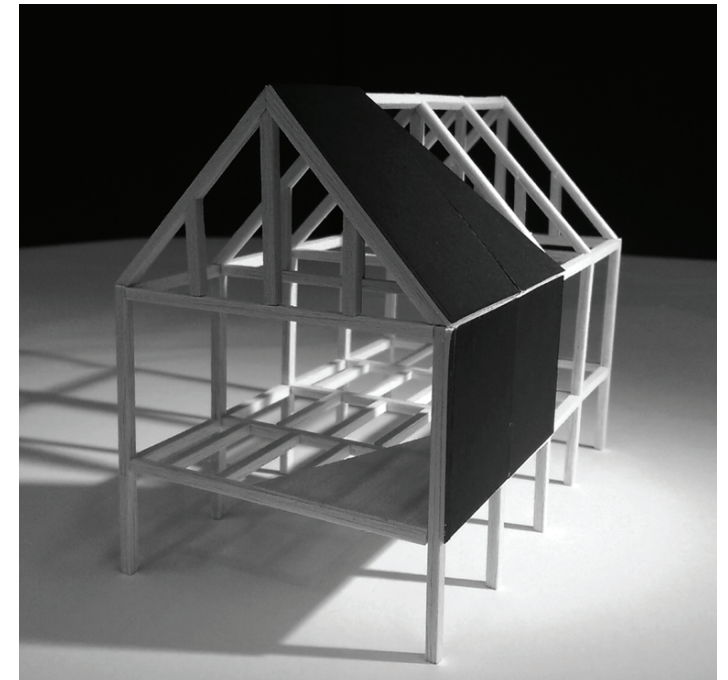
Side Table Wood Working Project



Side Table Wood Working Project



Sectional Model - White/Black Card



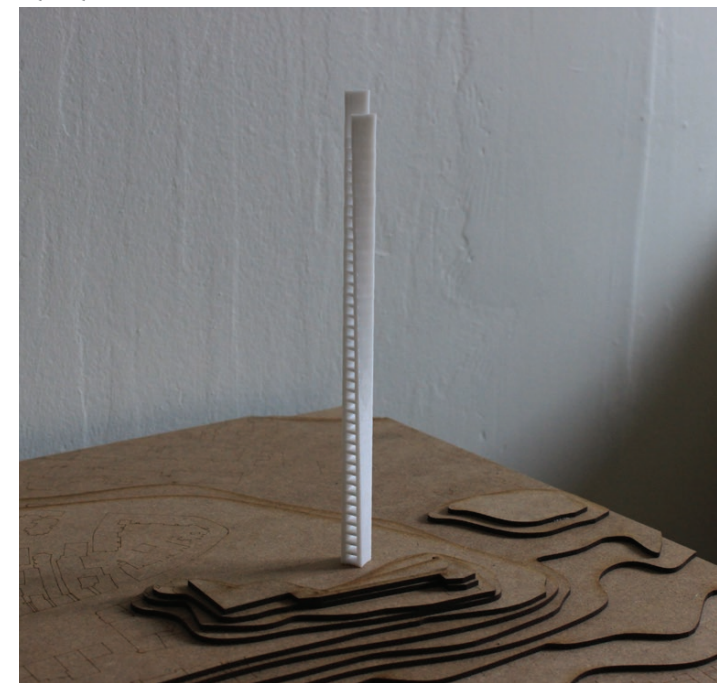
Structural Frame Model - Balsa Wood



Product Design Video Conferencing Lamp



Product Design Video Conferencing Lamp



Castlehill Lighthouse Concept Model - 3D Printed

