



Figure 1: Architectural Forensics in *Anonymous Monsters*, ENIAtype, 2016.

Design Ecologies  
Volume 5 Number 1  
© 2015 Intellect Ltd Article. English language. doi: 10.1386/des.5.1.130\_1

SHAUN MURRAY  
ENIAtype, University of Greenwich

# Architectural Forensics in Anonymous Monsters

*Architectural forensics*  
*Anonymous monsters*  
*Augmented planning permission*  
*Digital forensics*  
*Reflexive architecture*  
*ENIAtype Architecture*  
*Construction*  
*Scaffolding*

## Abstract

Architecture is a crime if it does not involve environmental DNA and digital forensics to aid in the design of the building. Architectural Forensics on Anonymous Monsters is a chthonic zenoarchaeology that constructs new models of thinking through construction and physical construction with the earth. The anonymous monster could be the alternative contracting/constructing models and ideas that architects consider valuable and inherently fundamental for architecture – the scaffolding of thought and the scaffolding of buildings. This scaffolding could become the anonymous support structure that enables but also underpins the monster under construction. This article is a design project developed to a highly tuned theoretical standpoint on how technology alters consciousness for the individual and for society. With coined phrases such as ‘reflexive architecture’ to explore the collapse of the biological and information divides whilst has re-applied the term syncretism to explain our experience of multiple realities at once. Technology is a tool and a means for individuals to explore pre-conceptions of themselves, to enter separate realities and bring back information. A computer can therefore be likened to undertaking a similar role to that of a shaman in accessing different levels of consciousness. Building as a constructed reality.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.

Shaun Murray

# 1. *ENIAtype research group*

2.  
3. ENIAtype research group is a state-of-the-art research group delving into the relationship between  
4. architecture, technology and philosophy across the University of Greenwich and the University of  
5. Kent. Our latest project investigated the impact of current digital modelling tools in producing  
6. complex architectural spatial environments at the Isle of Dogs in London.

7. We started the project with a two-week practical session within the Isle of Dogs, where the  
8. research group collected and documented architectural forensic models in three-dimensional virtual  
9. and physical environments that were played back continuously on the environment under investiga-  
10. tion. Consequentially, hybrid spaces were discovered and became tailored as evidence to support the  
11. design of buildings to become architecture.

12. *Architectural* Forensic models encompass the seizure, forensic imaging (acquisition) and analysis  
13. of digital media through the production of a set of precise drawings and models. Forensics deals  
14. primarily with the recovery and analysis of latent evidence. Latent evidence can take many forms in  
15. your design ideas and drawings, which could be used to reshape the design of a building around new  
16. values and behaviours. This suggests that ecological design replacement towards ecological forensics  
17. could be accelerated by external shocks and shaped by the emergence of a new kind of environment  
18. for a new kind of human being. Creating something more dynamic will at first abolish existing archi-  
19. tectural models, almost unseen within the old system, but which will break through, reshaping the  
20. built environment. This is possible because of three major changes design technology has brought  
21. about in the use and application of digital tools in architecture, a shift away from representation and  
22. towards documentation and the consequences of new spatial terrains yet to be explored.

23. *Anonymous* Monsters was developed three-dimensionally to aid in the design of tailored buildings  
24. in relation to its own complex architectural forensic evidence. An anonymous monster (aka the envi-  
25. ronment) is constructed by some unseen force directing spatial events, which are orchestrated by some  
26. unseen director. Architectural research queries to develop the programme of the building could be:  
27. How does gravity affect us? Where does weather come from? How much can we find out about you  
28. that you accidentally leave behind? Our only true relationship with the anonymous monsters is that it  
29. is ubiquitous yet strangely anonymous in its complexity and architecture. We unpacked the guts of the  
30. monster to generate an architectural framework that can have a dialogue with this unknown unknown.

# 33. *Design strategy*

34.  
35. A design strategy was set up for the research group with the following leading questions: What is your  
36. bait? How can you attract the enemy's enemy? How will you attract the prey to your building? The

ideas were to design a building as a weapon of the weak and the architecture has to continuously try to achieve what the occupants want through an indirect route.

An initial focus was in marking out spaces by some invisible links between forensics, building and participant in their architectural forensic models, distancing the forensics from the environment – unfolding as a series of events in the environment as some form of design – manipulating the forensics towards some dramatic shifts in the design of the building, without any direct changes to the form of the object. Forensic application after forensic application after forensic application – the architecture is an attempt to set a series of traps for the participant and occupant of the building. When we get entangled in this complex web of environmental forensics, can we cultivate it and engage with it? Find who committed the crime? Through this greater understanding of how to design with this shifting relationship, a revolution opens us up to a new understanding of the world – a strong temporal dimension. It is up to each participant to discover what it is, as you don't design it, but you reveal its relationships through the design of the architecture. You are complicit with it and re-orient yourself with, through it and from it.

Using environmental applications the research group detected the full range of historical, environmental and technological forensics to construct a four-dimensional virtual environment for people. Buildings have often been seen as treating people as components in the machine. But there is another way, whereby we treat buildings as complex components with a shifting relation with the environment and people over time.

Through our constantly shifting and dynamic relationship with buildings and the environment it becomes clear that the manner in which our environmental DNA will be used against us in the future of buildings to become architecture is not known yet. Through the research group's architectural forensic models, they individually identified and collated environmental, historical and technological data to create time-based hinge architecture. A hinge architecture becomes an architecture understands that it is better to look for the processes that are ongoing and possibly unrecognized and manipulating them to create some sort of dramatic shift.

### *Research projects*

Some participants researched the geometries of Christopher Wren's Old Royal Naval Colleges in Greenwich buildings and mirrored critical reflections and hinges in the geometries across the River Thames and towards the Isle of Dogs with reference to Duchamp's Large Glass.

The research projects examine the way forensic scientists collect, preserve and analyse evidence during the course of an investigation or acts of violence suffered by buildings in their environment. The projects present different ways to unpack and interrogate the idea of technological impact on buildings

Shaun Murray

1. and the environment as crime scenes. In the quest for objectivity, new methods of investigation were  
 2. developed merging environmental data with the design of spaces, calculations and material decisions.

3. Below is a range of speculative buildings developed as a series of networked shops and stores that  
 4. will trade with each other on parallel currencies. These buildings are dedicated to free time, networked  
 5. activities and free matter. The architecture considers different sets of associations between it and  
 6. human behaviour, in a whole range of different spatial relations, and encourages a change in percep-  
 7. tion about technology, ownership and work. The buildings will also focus on split-sites and develop a  
 8. complex response to the physical location through the development of an educational start-up prac-  
 9. tice. The split-sites will introduce two different programmes in one building to create elements of a  
 10. new system for a new way of living in the process of formation.

11.  
 12. *Brad Sowter, Shredding the Post-War Vortex*  
 13.

14.  
 15. Shredding the post-war vortex is a microcosm that attempts to rebuild connections between the once  
 16. tight-knit communities of the Isle of Dogs during World War II.

17. The project explores the community from a forensic point of view, delving into memoirs and  
 18. accounts from residents during the Blitz and how this has a casual effect on the relationship between  
 19. the locals. The rise of Canary Wharf and luxury apartments on the Isle of Dogs has transformed the  
 20. once iconic docking industry. Research has shown that the unemployment rate among the youth on  
 21. the Isle of Dogs is at a high; therefore, having areas specifically for apprenticeship will help them gain  
 22. some qualification. Research has also shown that there is an ageing population and loneliness is at a  
 23. high. The architecture acts as a beacon of a reflexive architecture that retains the memories of the past  
 24. and projects them into the future. Memoirs manifest themselves into platforms that encourage the  
 25. community of all ages to engage with one another for the microcosm to flourish. Shredding the post-  
 26. war vortex engages the senses through tactile surfaces, social interaction, immersion and the elements  
 27. of earth, wind, water and fire. The architecture becomes a safe haven from the outside world where  
 28. nostalgia and childhood imagination can be explored. Participants work and play within the micro-  
 29. cosm, building relationships with their neighbours and piecing together fragmented memories of the  
 30. past while developing new memories themselves.

31.  
 32. *Mladen Varbanov, Invisible Networks and the New Observatory*  
 33.

34.  
 35. The New Observatory occupies a structure whose form is driven by the placement of architectural  
 36. elements from Canaletto's painting of Greenwich Naval College and Queen's House, with reference





Figure 2: Aerial view of the Shredding the Post-War Vortex, ENIAtype, 2016.

Shaun Murray

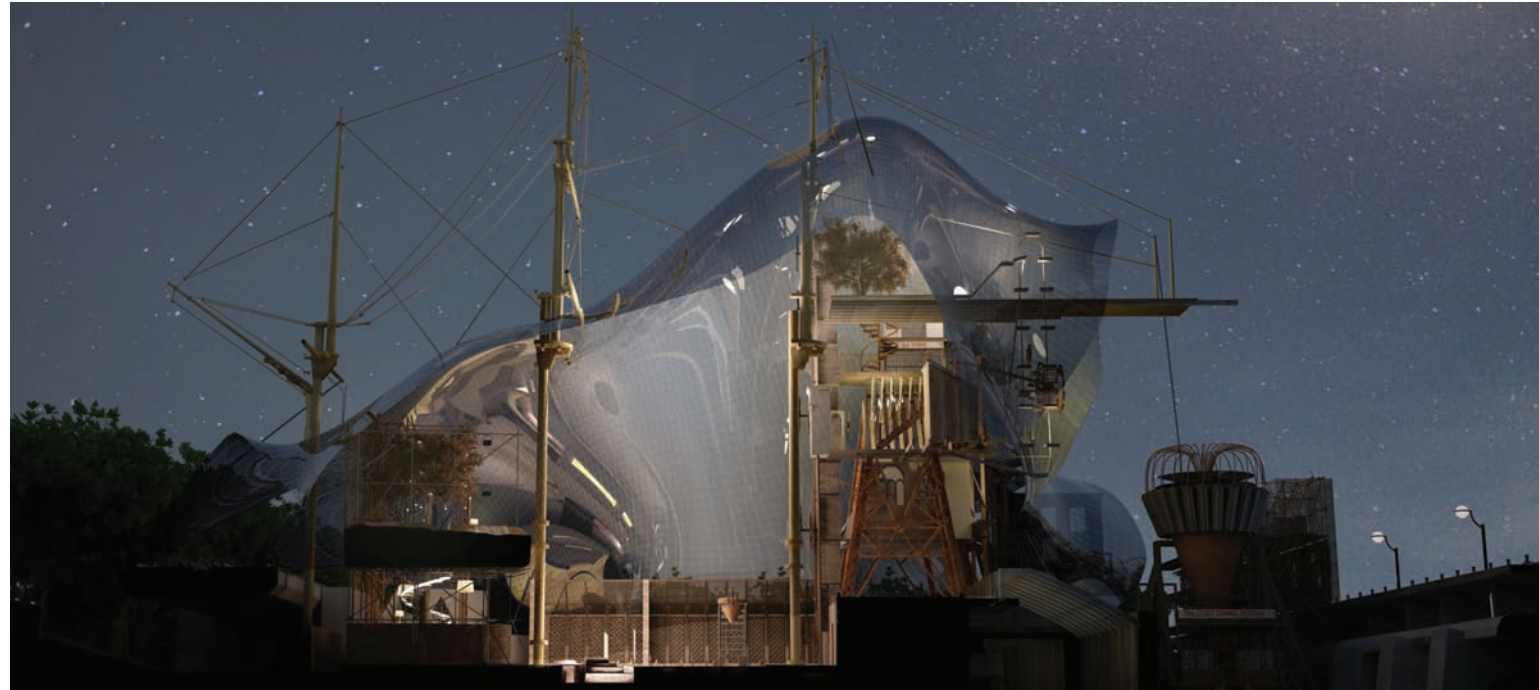


Figure 3: Perspective of the Shredding the Post-War Vortex, ENIAtype, 2016.

to his use of the camera obscura. The project gives architectural form to invisible phenomena that occur around the site and its occupants, highlighting the role of the architect in generating conditions for new social ecologies. The New Observatory consists of three floors with different functions. The ground floor operates as a place where people could have a meal prepared from different types of insects. The first floor functions as an observatory for analysing the projected facades onto Mudchute Farm and Park, with spaces to analyses invisible phenomena such as phone and Wi-Fi signals, wind speed direction, temperature and humidity. The different sensors located around the building will be collecting that data from the site, and through advanced computational algorithms it will be rendered onto the facade of the building under the form of different woven patterns.

### *Koh Yuan Feng, Seeking Comfort in the Smokehouse*

Exploring human comfort and the extreme climate of a smokehouse stack with the exposed edge of the laminar wind flow at the Millwall Outer Dock. The project is a revisit into traditional hot and cold smoking techniques and enhancing the dining experience via the microclimate of hot and cold dining vessels utilizing materials of varying U-values and its accompanying comfort food menu. The program encompasses the use of the smokestack to smoke fish, meat and organic vegetables for the new market and restaurant. Located on soft marshy ground, and unobstructed strong westerly winds, the light plays a crucial role in providing thermal comfort for the participant. Seeking Comfort in the Smokehouse aims to provide quality food with an architecture to enhance the Individual's experience.

### *Vince Choi, Time in Space Reassembling: The Chinese Kitchen in Ceramic Vessels*

The Chinese Kitchen in Ceramic Vessels is a project that experiments on the richness of spatial experience, time consumption and building materiality through investigating ways in which building properties can find their way into architectural forensics. The project is a response to a current issue in the Isle of Dogs with people preferring to buy 'food on the move' rather than enjoy 'food on the seat'. The reason – it takes a longer time to enjoy a proper meal and people need to get back to work. The architecture re-assembles the occupant's time consumption within varying spatial terrains. The architecture responds to the occupants by encouraging them to spend more time in highly detailed spaces and swiftly move through in highly tuned spaces. This is achieved through heating and cooling ceramics vessels embedded in the floors, walls and ceilings and the textures and materiality's of the spaces. Furthermore, "sìhéyuàn"- 四合院, a historical type of residence was commonly found



Shaun Murray



Figure 4: Earth Station at the Shredding the Post-War Vortex, ENIAtype, 2016.



Figure 5: Interior view of the stories at the Shredding the Post-War Vortex, ENIAtype, 2016.

Shaun Murray



Figure 6: Painted Hall vertical panorama view in Invisible Networks and the New Observatory, ENIAtype, 2016.

throughout China, most famously in Beijing, it has applied into my space planning. The surfaces in the building are manipulated as a mediator of the surrounding environment rather than a determinant of the environment.

### *Pravin Abraham, Resonations and Object Interference at the Recording Studios*

The project is about materials that resonate at differing frequencies with differing spatial environments for a series of recording studios. The building responds to sound from its surroundings by resonating in it materially; new fractures and crumbling facades embrace this new spatial relationship. Strategically orientated concrete walls with mechanical parabolic mirrors respond to the sound radiating through the sites location. These mirrors harvest sound from the area, which is then archived through the recording studios. The sounds collected can then be integrated by participants using specially designed recording facilities, with the aim of creating new and unique resonant sounds that is directly influenced by the architecture of its space and surroundings. The building itself also collects impact sound via the cacophony chamber, which contains a circulation path completely wrapped in concrete. Microphones placed throughout the chamber then pick up these sounds. Essentially the chamber is an attempt at creating an architecture that acts as an instrument. The recording vessels, where participants integrate the collected sound, are hung off the main building, so that they may resonate with the main building as it receives vibrations from the site.

### *Greta Lileikyte, Brunel's Pier and the Timber Dockyard*

In the south of the Isle of Dogs, the SS Great Eastern's launch ramp (1854), formed the basis of this project, which created a composition of workshops for construction of wooden boats, a bank for tree seeds and a pier for boats. The forensics that was discovered from the historical, solar, anemometric, bathymetric and geological data, guided the composition of the workshops, which raise knowledge and awareness about timber construction, and maintains the historical heritage. The site entails workshops for craft and wooden boat construction, a pier with a waiting area, café, ticket office, and an area for tree growth, which is monitored through the seed bank. The seeds and parts of the boat are produced through 3D printing using live cultures, however some Cross-Laminated Timber (CLT) is imported. There are three types of facades with the first layer that monitors the sun light and rotates accordingly to regulate a certain amount of light into the building, the second layer monitors the wind which regulates the ventilation inside of the building, and the third layer is a movable façade to provide privacy for the private jobs and the neighbouring residents.



Shaun Murray

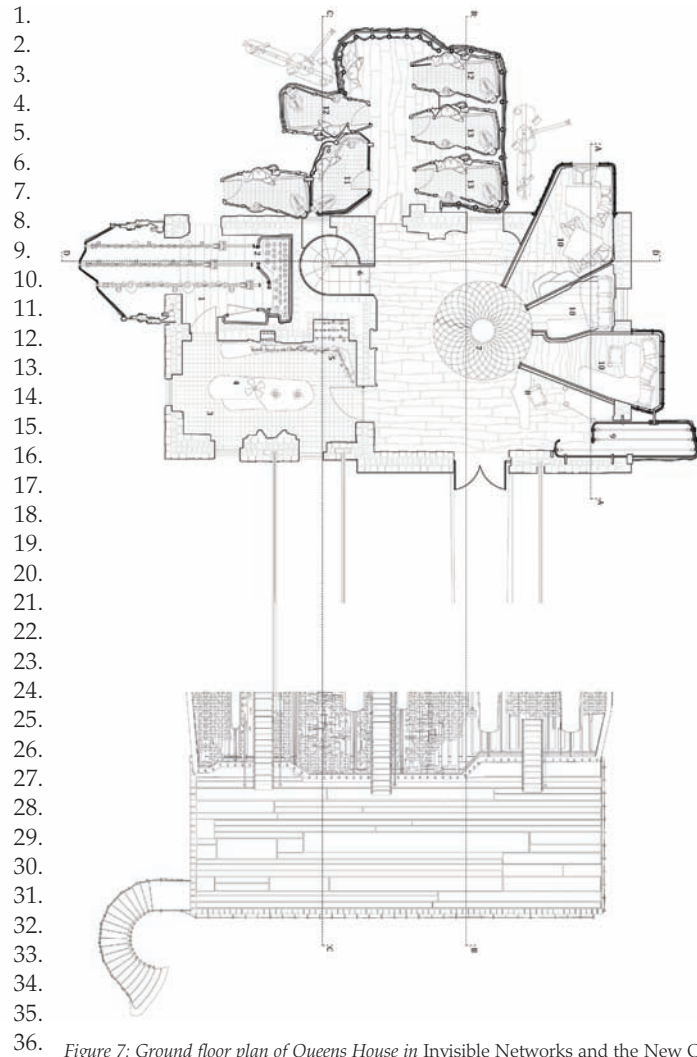
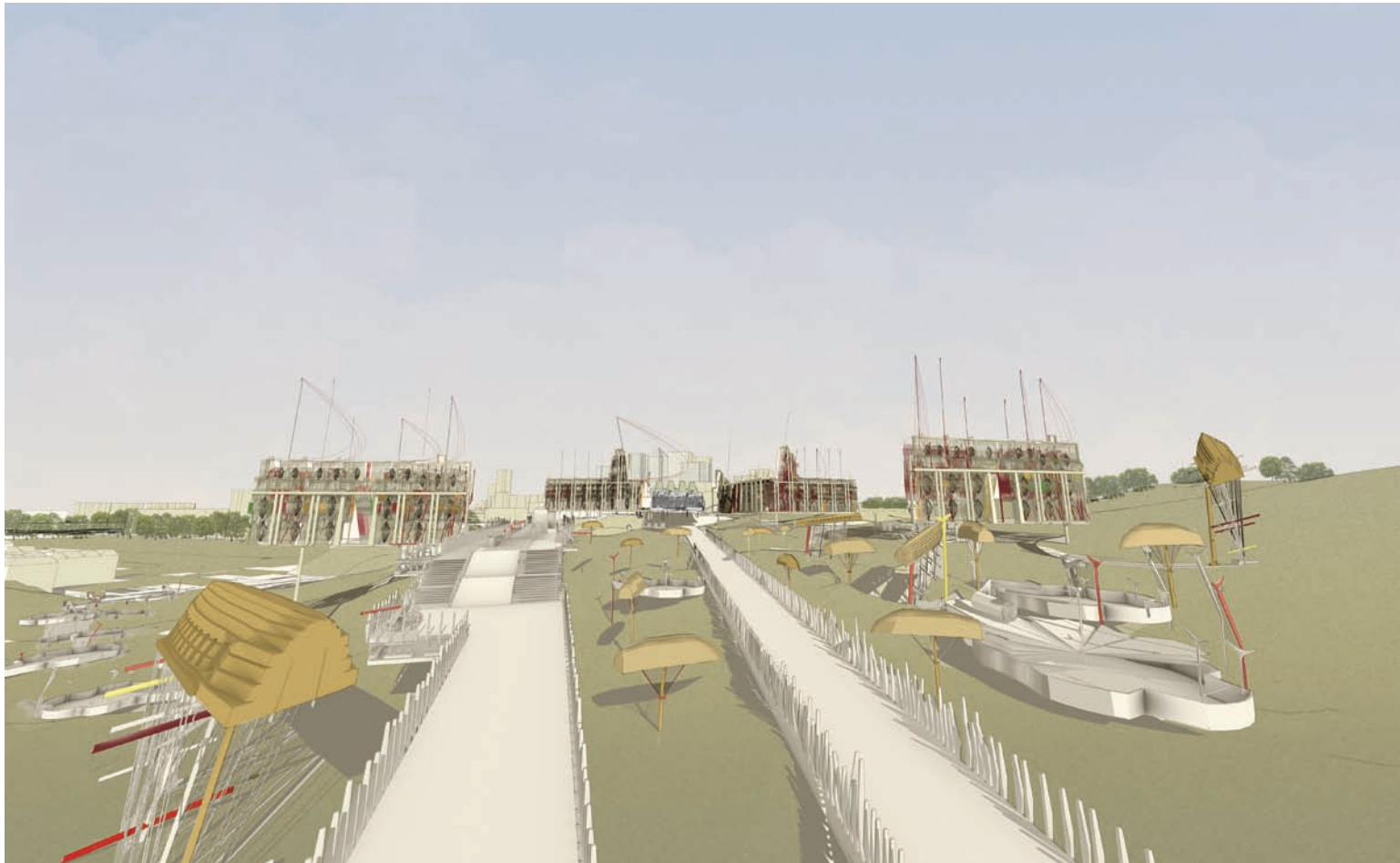


Figure 7: Ground floor plan of Queens House in Invisible Networks and the New Observatory, ENLAtype, 2016.



1.  
2.  
3.  
4.  
5.  
6.  
7.  
8.  
9.  
10.  
11.  
12.  
13.  
14.  
15.  
16.  
17.  
18.  
19.  
20.  
21.  
22.  
23.  
24.  
25.  
26.  
27.  
28.  
29.  
30.  
31.  
32.  
33.  
34.  
35.  
36.

Figure 8: Perspective view of New Observatory in Invisible Networks and the New Observatory, ENIAtype, 2016.

Shaun Murray

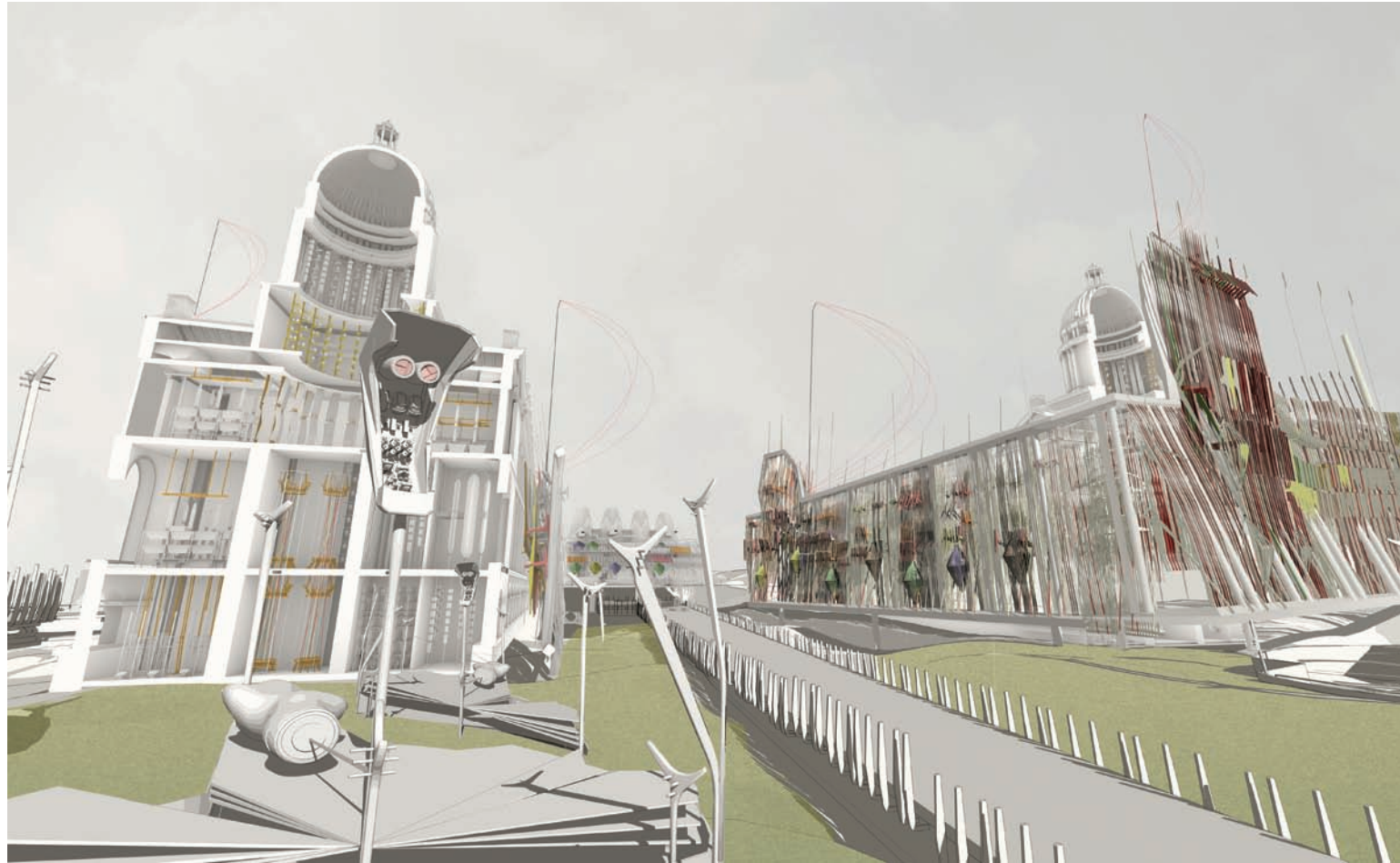


Figure 9: View of woven facades in the Painted Hall in Invisible Networks and the New Observatory, ENIAtype, 2016.



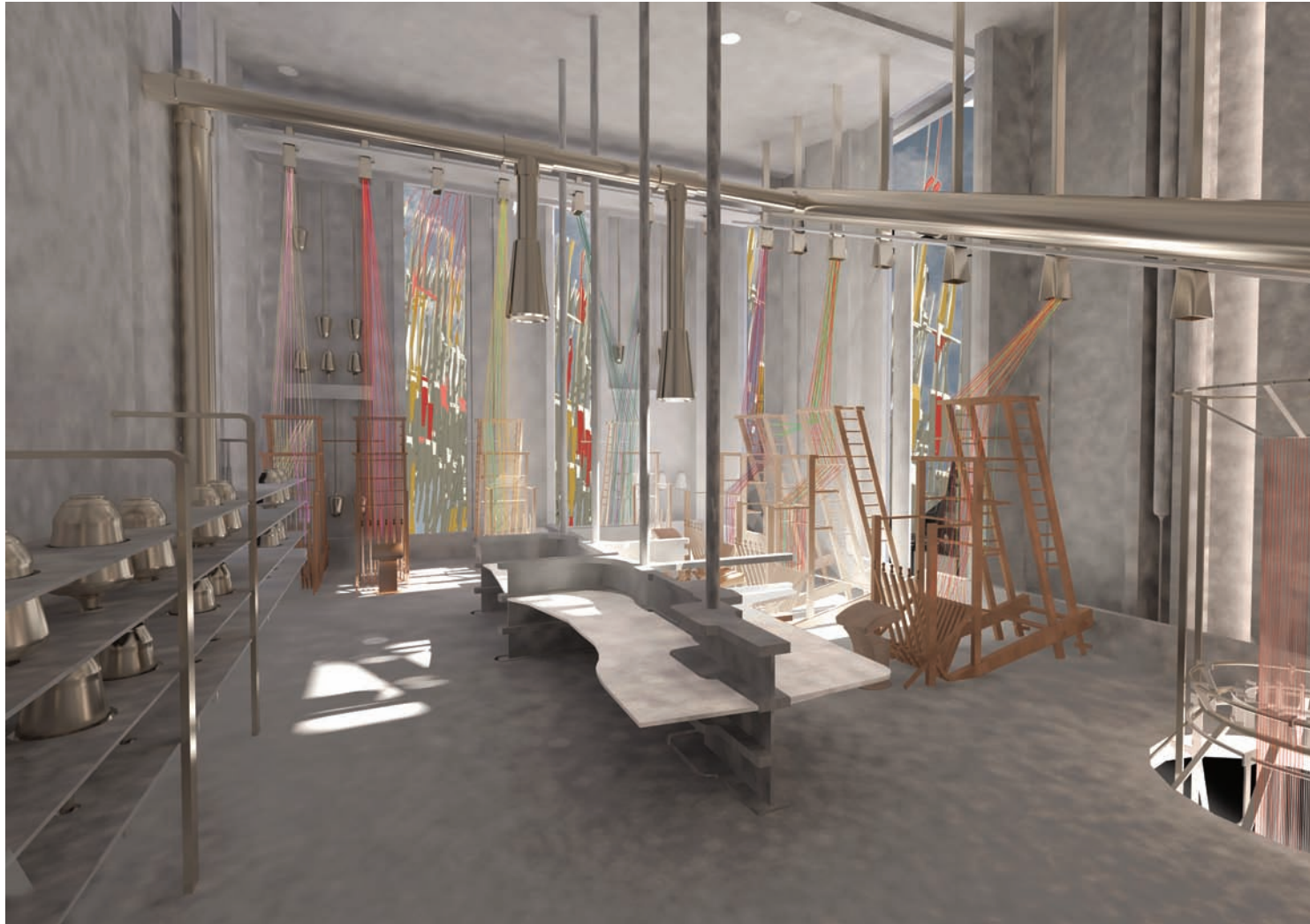


Figure 10: Insect storage area in *Invisible Networks and the New Observatory*, ENIAtype, 2016.



Shaun Murray



Figure 11: Workshop space in *Invisible Networks and the New Observatory*, ENIAtype, 2016.

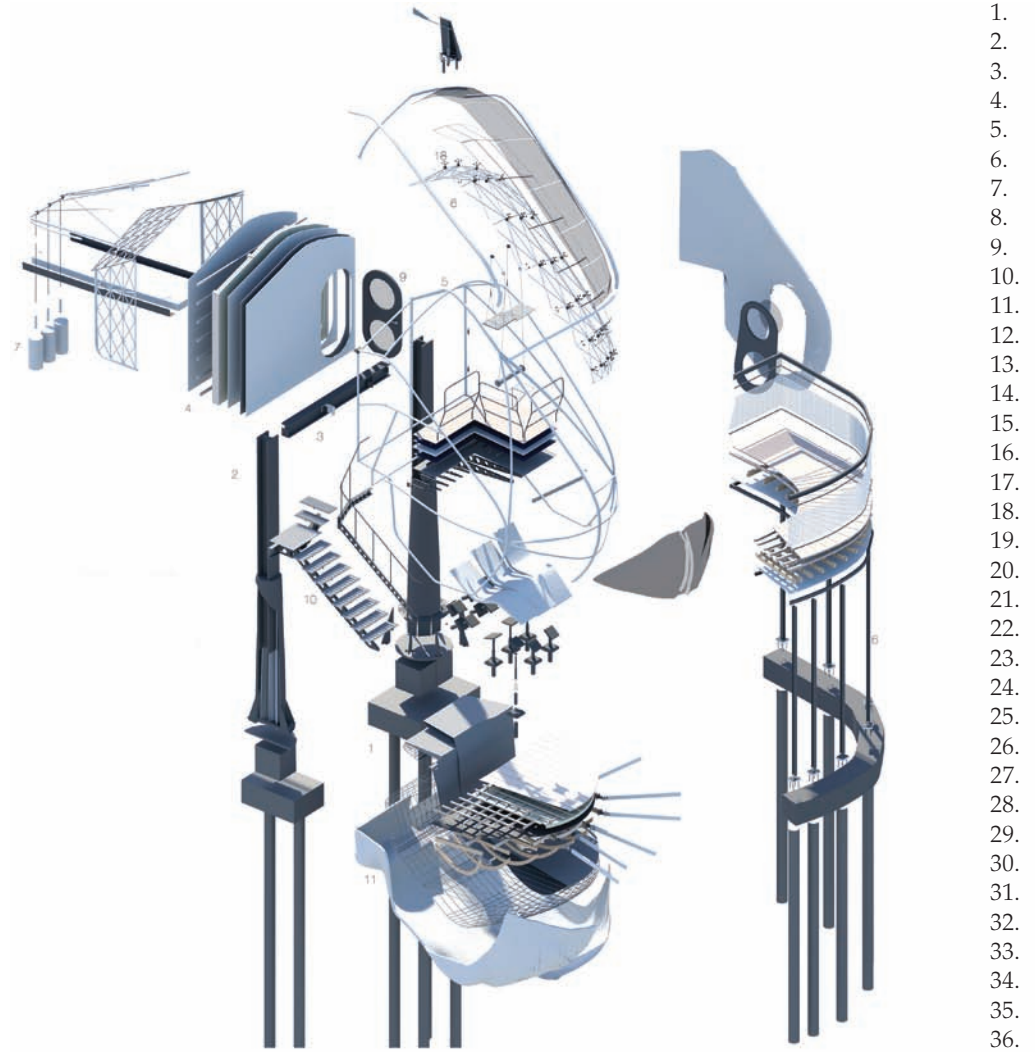


Figure 12: Constructional axonometric through the dining vessels in Seeking Comfort in the Smokehouse, ENIAtype, 2016.

Shaun Murray

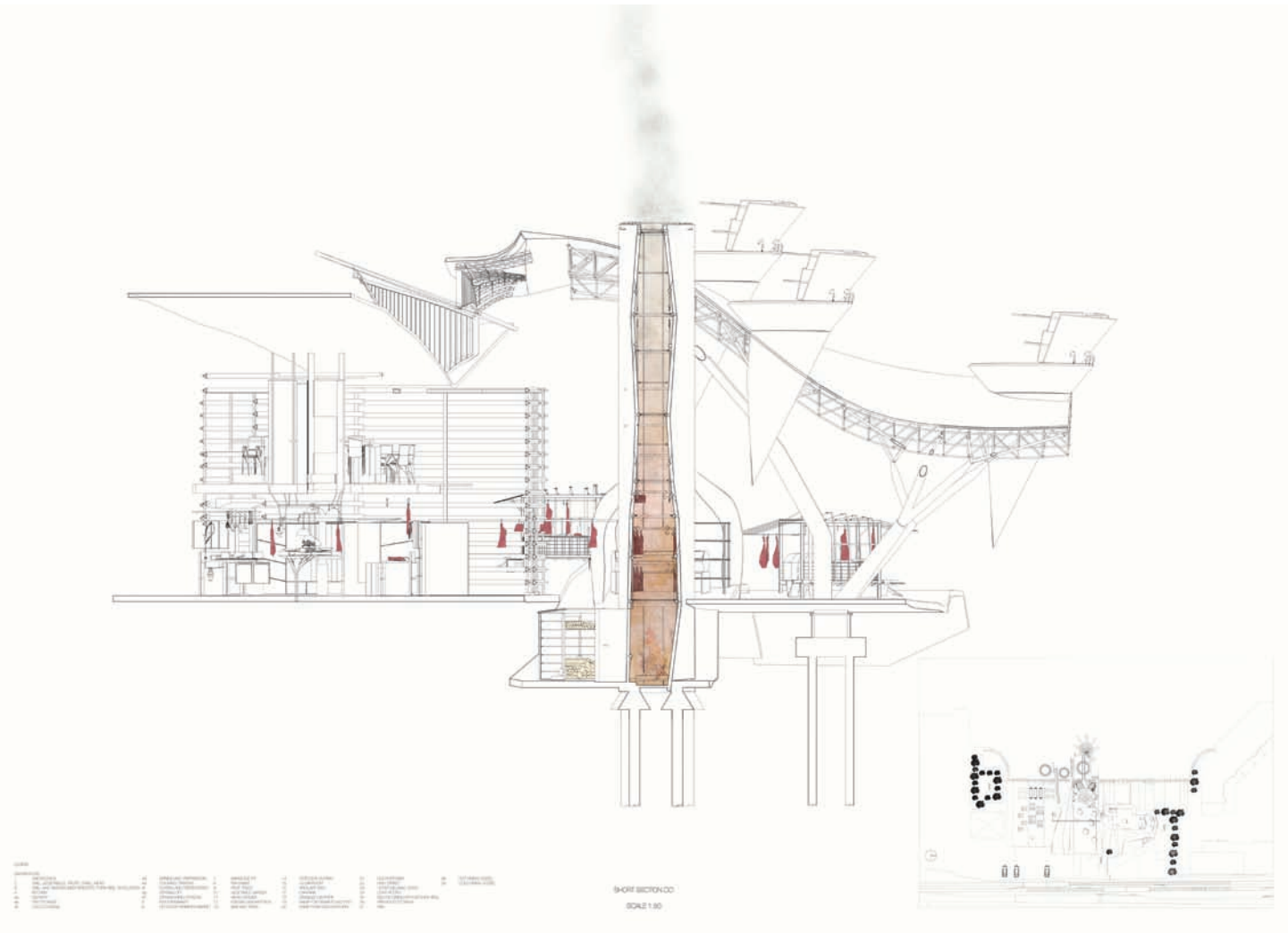


Figure 13: Section through the smokehouse kitchens and market area in *Seeking Comfort in the Smokehouse*, ENIAtype, 2016.



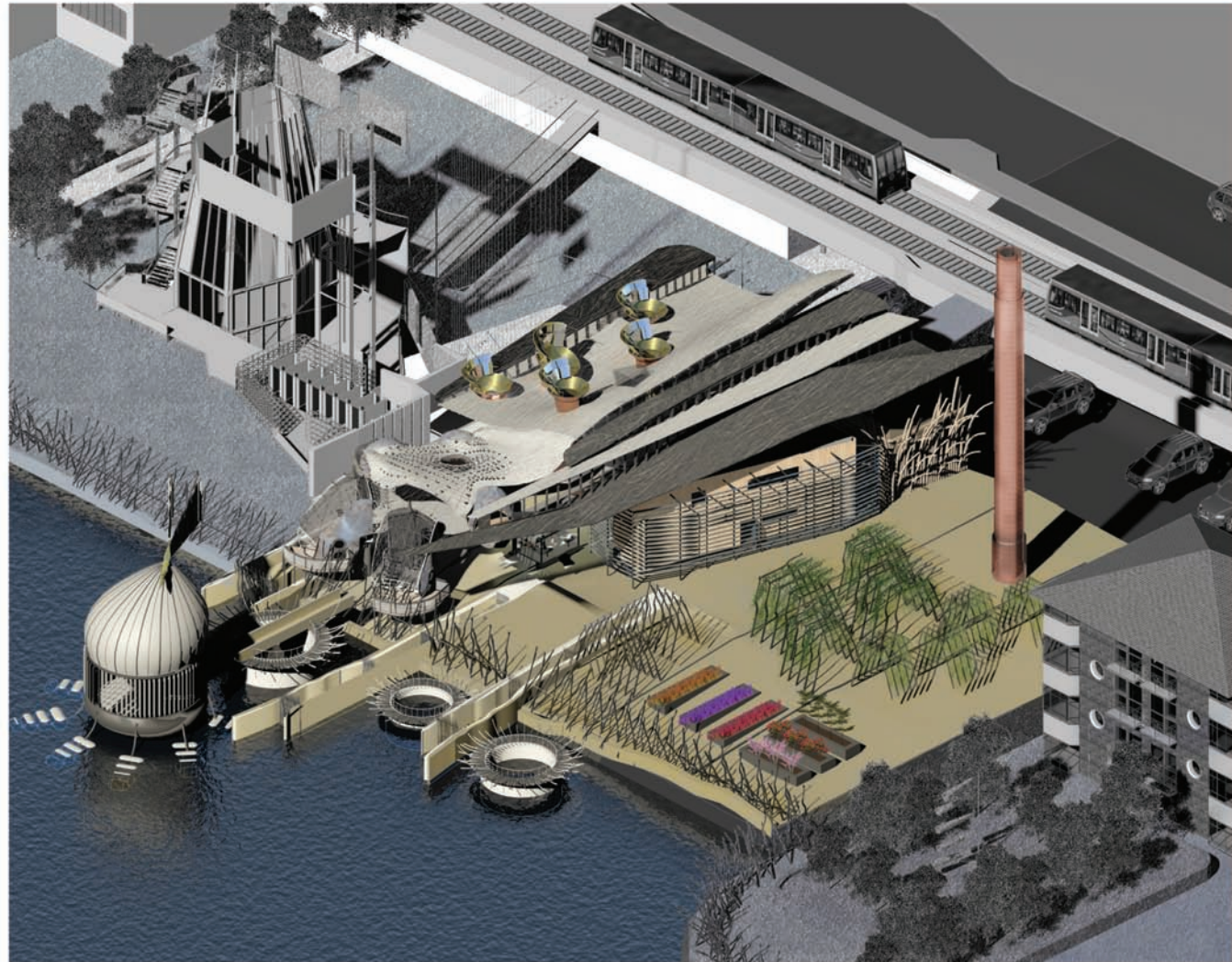


Figure 14: Aerial view of the Smokehouse complex in Seeking Comfort in the Smokehouse, ENIAtype, 2016.



Shaun Murray

1. Construction Axonometric Drawing
2. Scale 1:50
3. Seeking Comfort in the Smokehouse
4. Steel Canopy Structure
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.
- 21.
- 22.
- 23.
- 24.
- 25.
- 26.
- 27.
- 28.
- 29.
- 30.
- 31.
- 32.
- 33.
- 34.
- 35.
- 36.

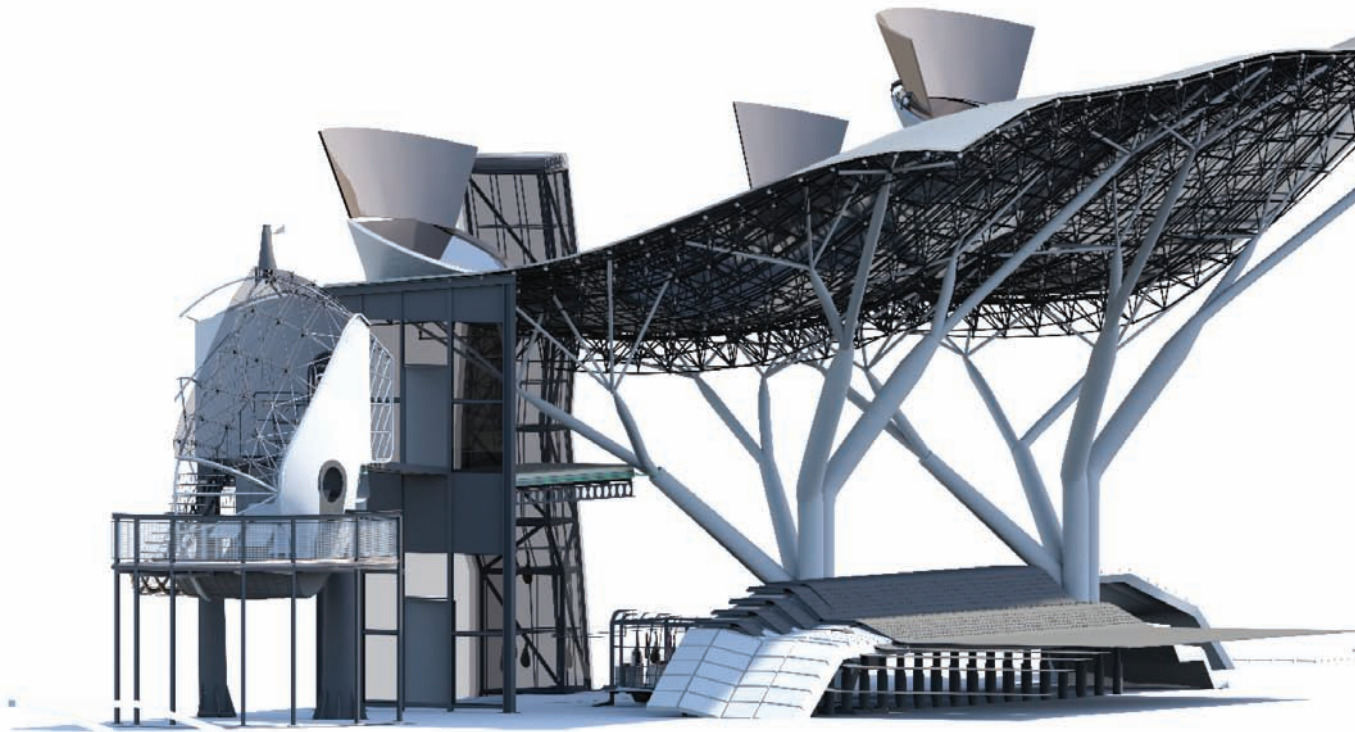


Figure 15: Perspective through the market area in Seeking Comfort in the Smokehouse, ENIAtype, 2016.

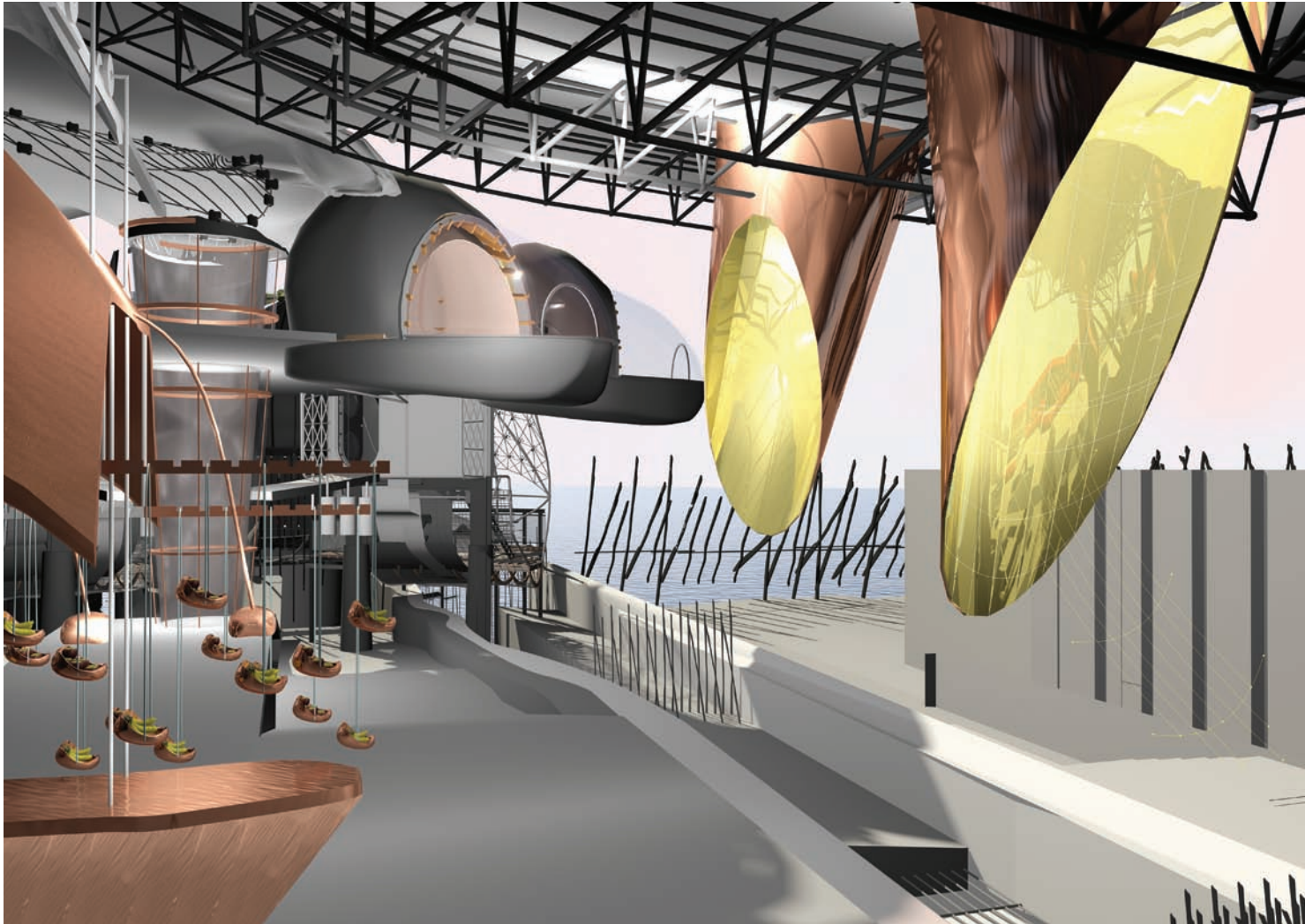


Figure 16: Perspective through the market area in *Seeking Comfort in the Smokehouse*, ENIAtype, 2016.

Shaun Murray

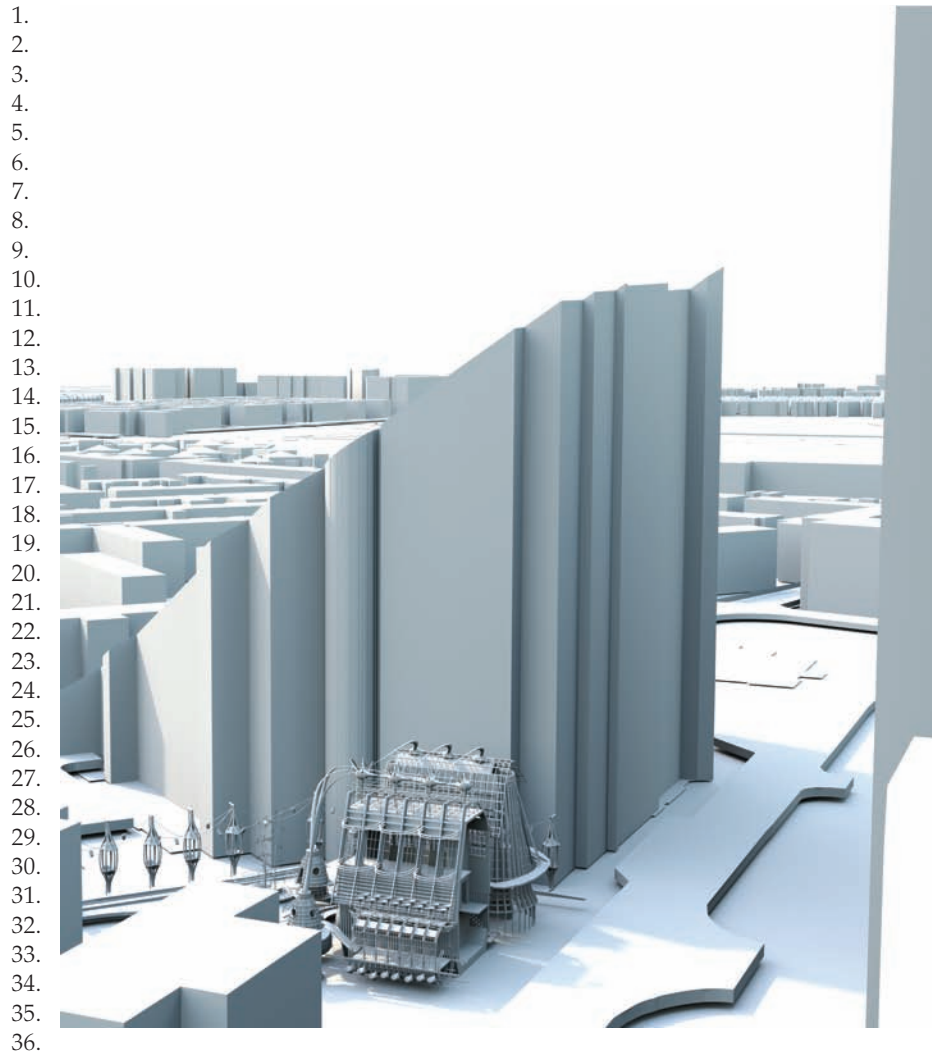
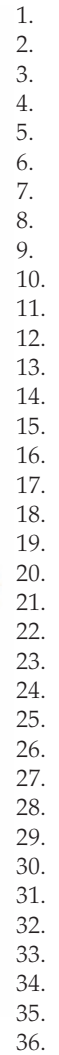


Figure 17: Aerial view of the Chinese Kitchen in *Ceramic Vessels in Time in Space Reassembling: The Chinese Kitchen in Ceramic Vessels*, ENIAtype, 2016.



---



Shaun Murray



Figure 19: Perspective view of the Chinese tearooms in *Time in Space Reassembling: The Chinese Kitchen in Ceramic Vessels*, ENIAtype, 2016.





1.  
2.  
3.  
4.  
5.  
6.  
7.  
8.  
9.  
10.  
11.  
12.  
13.  
14.  
15.  
16.  
17.  
18.  
19.  
20.  
21.  
22.  
23.  
24.  
25.  
26.  
27.  
28.  
29.  
30.  
31.  
32.  
33.  
34.  
35.  
36.

Figure 20: Perspective view of the Chinese Kitchen gardens in Time in Space Reassembling: The Chinese Kitchen in Ceramic Vessels, ENIAtype, 2016.

Shaun Murray

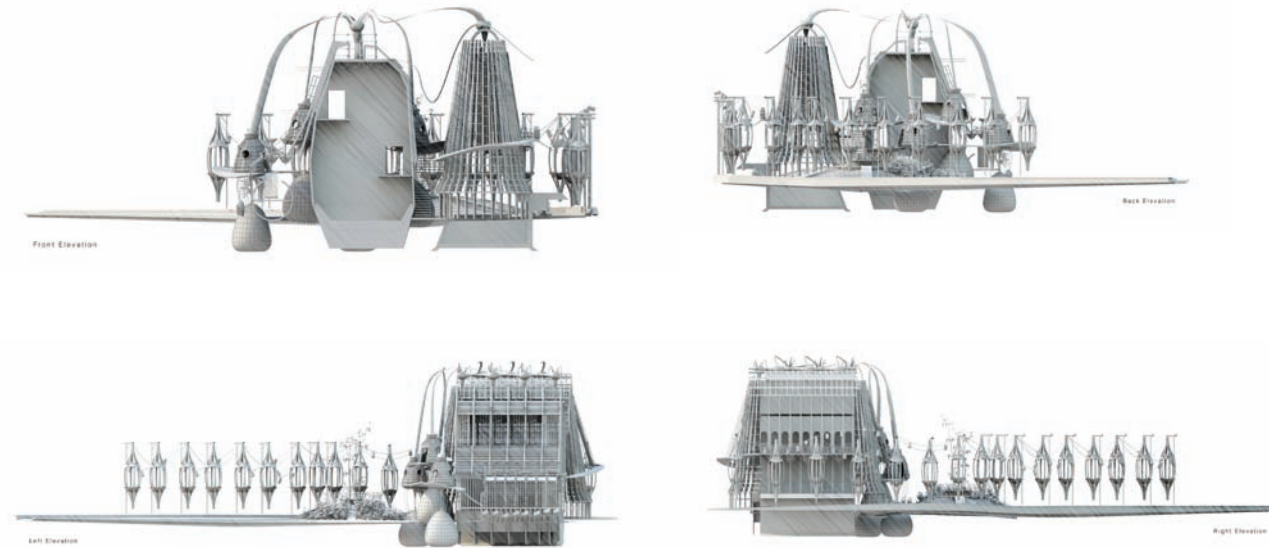


Figure 21: Sections through the Chinese Kitchen in Ceramic Vessels in Time in Space Reassembling: The Chinese Kitchen in Ceramic Vessels, ENIAtype, 2016.



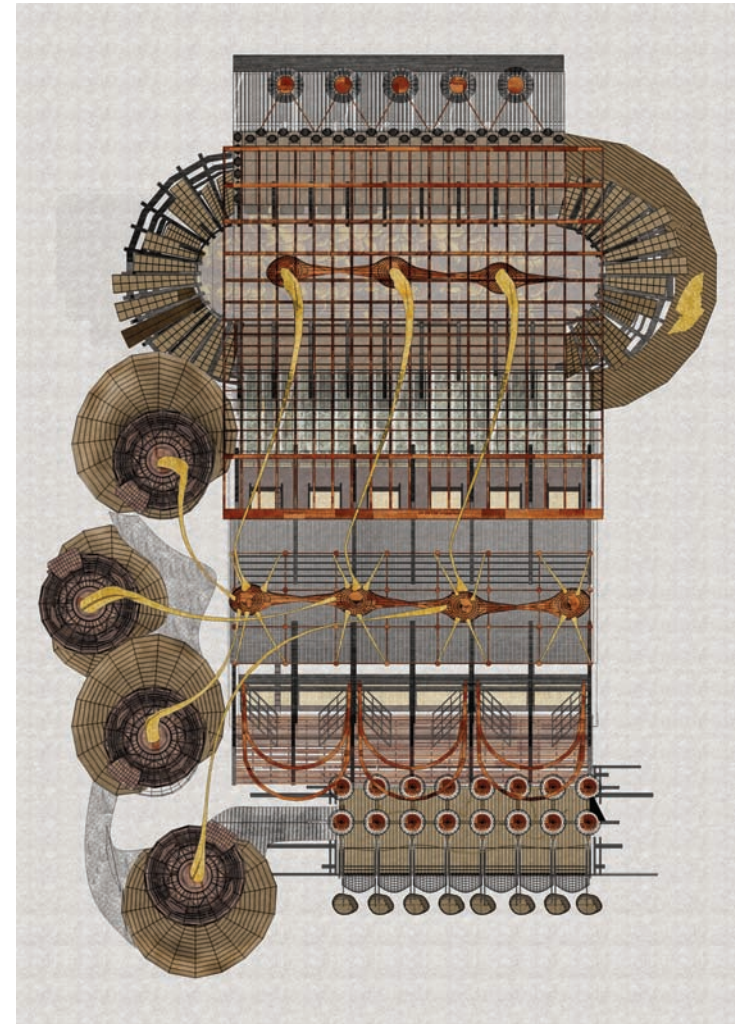


Figure 22: Roof plan of the Chinese Kitchen in *Ceramic Vessels in Time in Space Reassembling: The Chinese Kitchen in Ceramic Vessels*, ENIAtype, 2016.



Shaun Murray



Figure 23: Section through the tearooms in the Chinese Kitchen in Ceramic Vessels in Time in Space Reassembling: The Chinese Kitchen in Ceramic Vessels, ENIAtype, 2016.

## Architectural Forensics in Anonymous Monsters

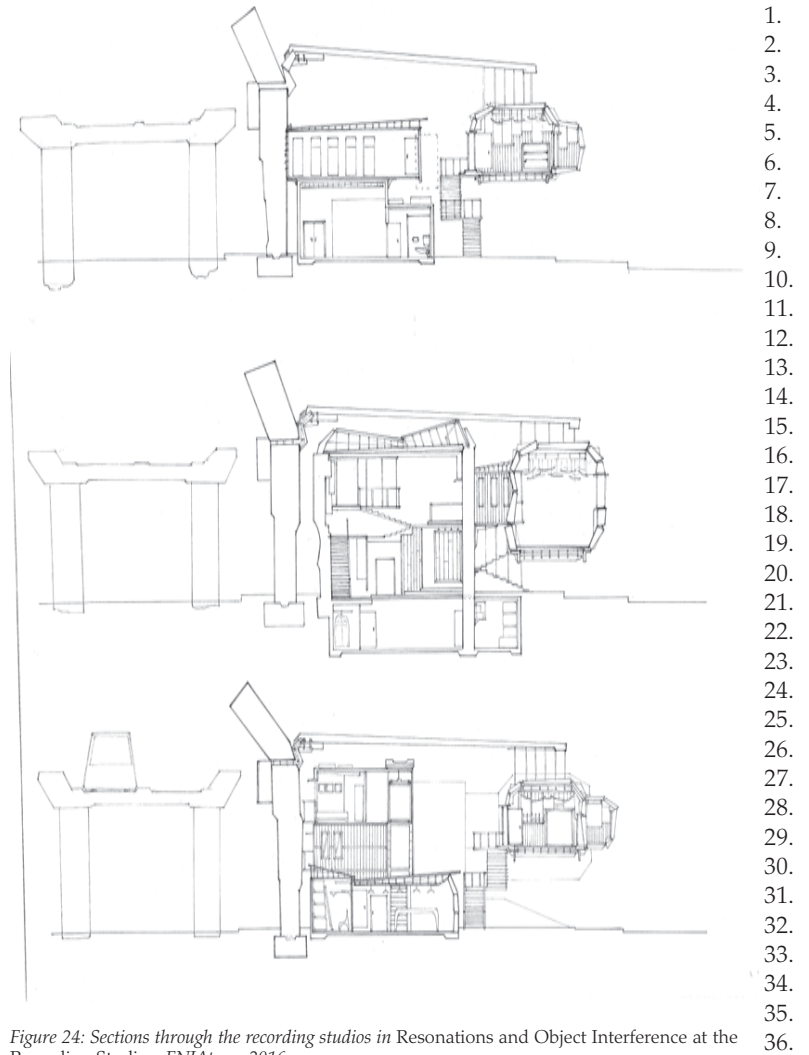


Figure 24: Sections through the recording studios in *Resonations* and *Object Interference* at the Recording Studios, ENLAtype, 2016.

Shaun Murray

1.  
2.  
3.  
4.  
5.  
6.  
7.  
8.  
9.  
10.  
11.  
12.  
13.  
14.  
15.  
16.  
17.  
18.  
19.  
20.  
21.  
22.  
23.  
24.  
25.  
26.  
27.  
28.  
29.  
30.  
31.  
32.  
33.  
34.  
35.  
36.

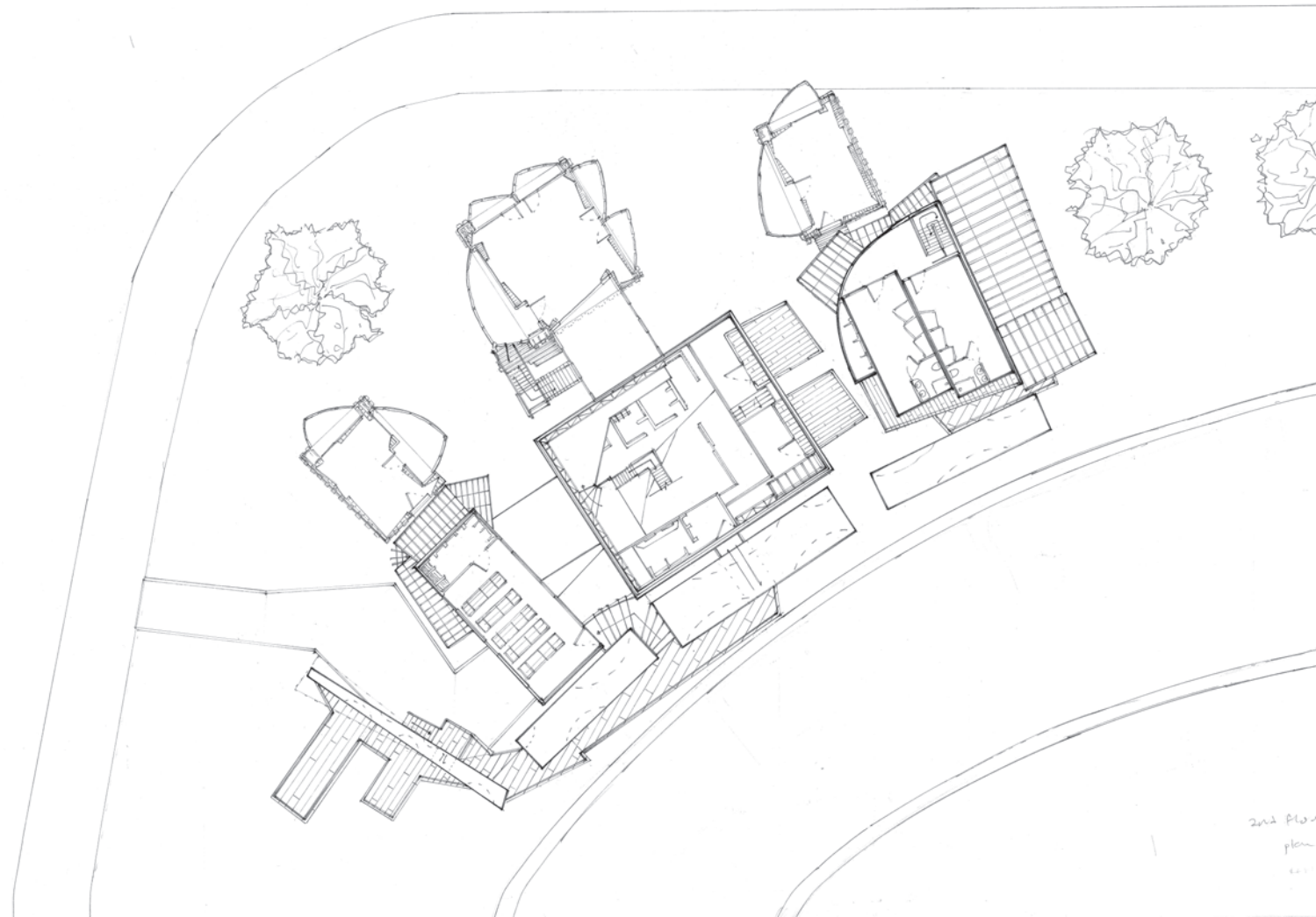


Figure 25: Plan of the recording studios in Resonations and Object Interference at the Recording Studios, ENIAtype, 2016.

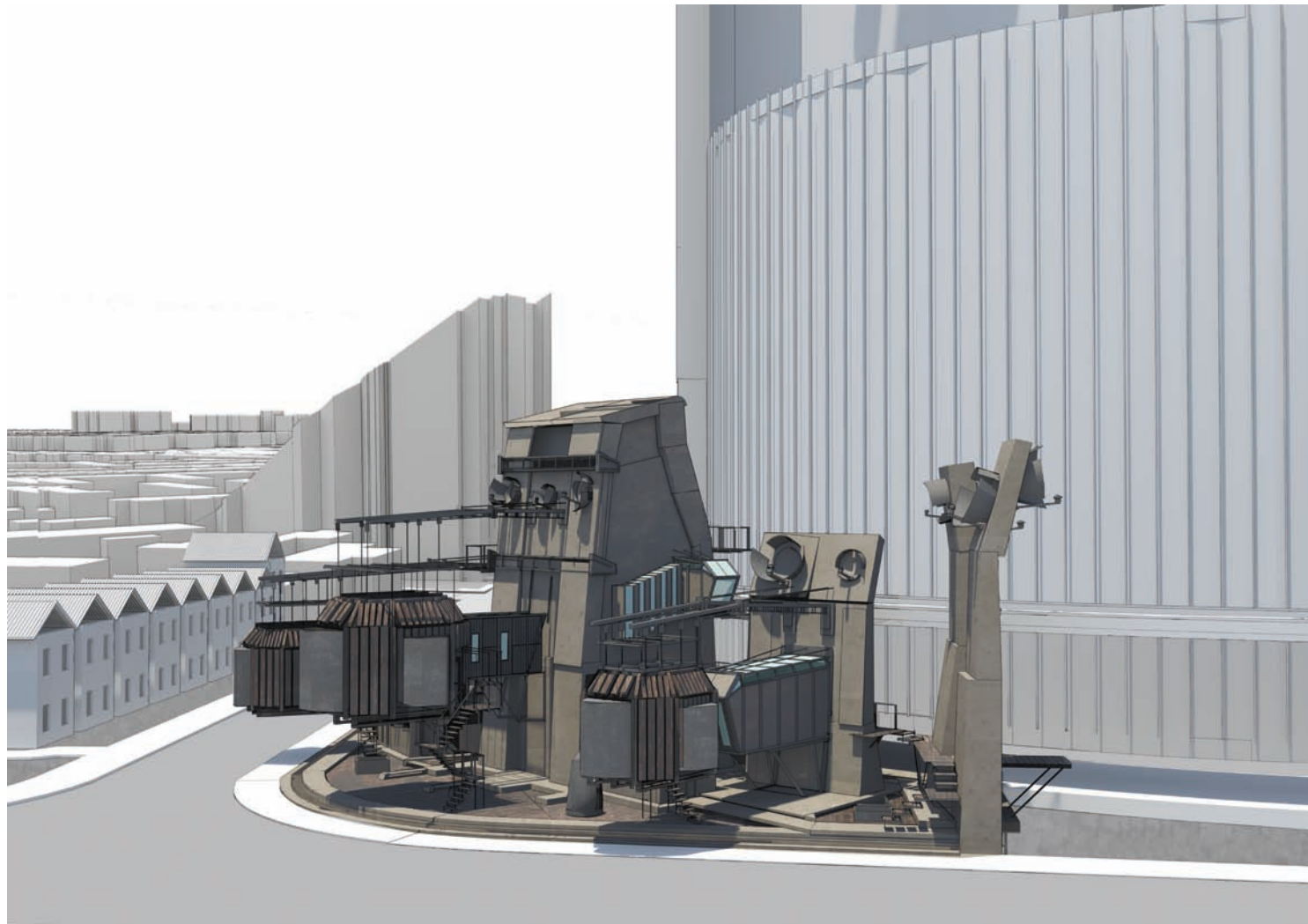


Figure 26: Perspective view of the recording studios in *Resonations and Object Interference* at the Recording Studios, *ENIAtype*, 2016.



Shaun Murray

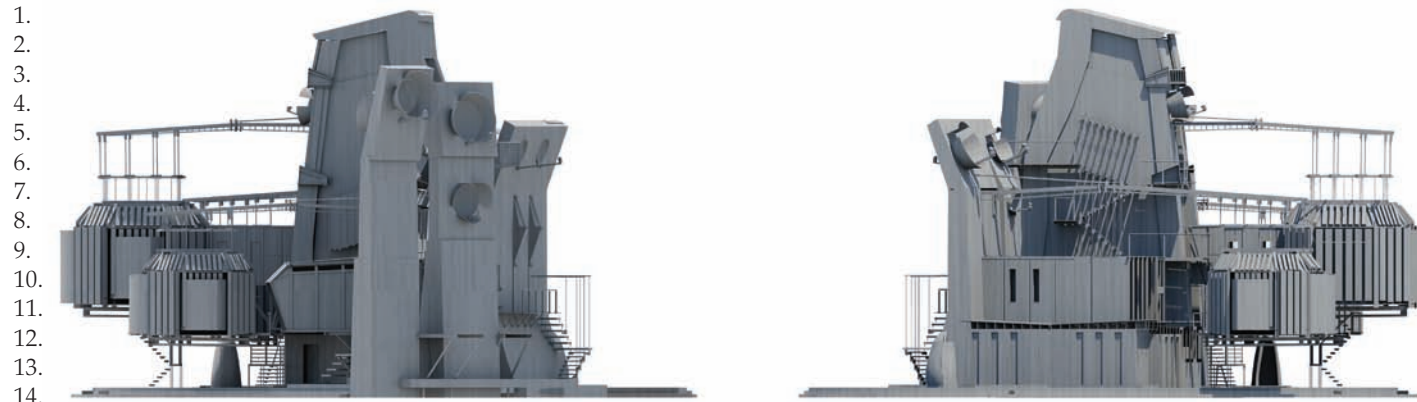


Figure 27: Elevations of the recording studios in Resonations and Object Interference at the Recording Studios, ENIAtype, 2016.

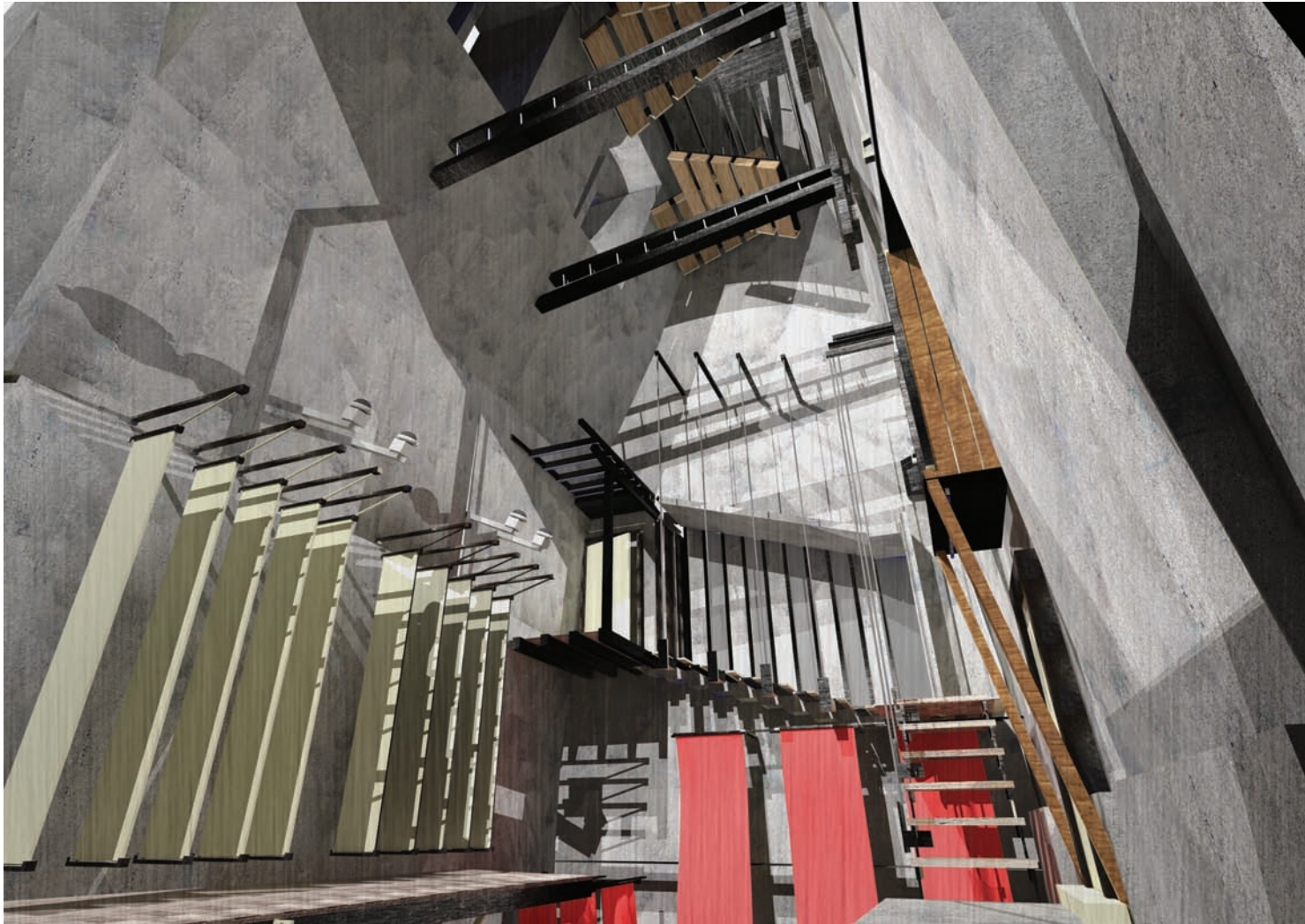


Figure 28: Interior view of the resonating chamber in Resonations and Object Interference at the Recording Studios, 2016

Shaun Murray

1.  
2.  
3.  
4.  
5.  
6.  
7.  
8.  
9.  
10.  
11.  
12.  
13.  
14.  
15.  
16.  
17.  
18.  
19.  
20.  
21.  
22.  
23.  
24.  
25.  
26.  
27.  
28.  
29.  
30.  
31.  
32.  
33.  
34.  
35.  
36.

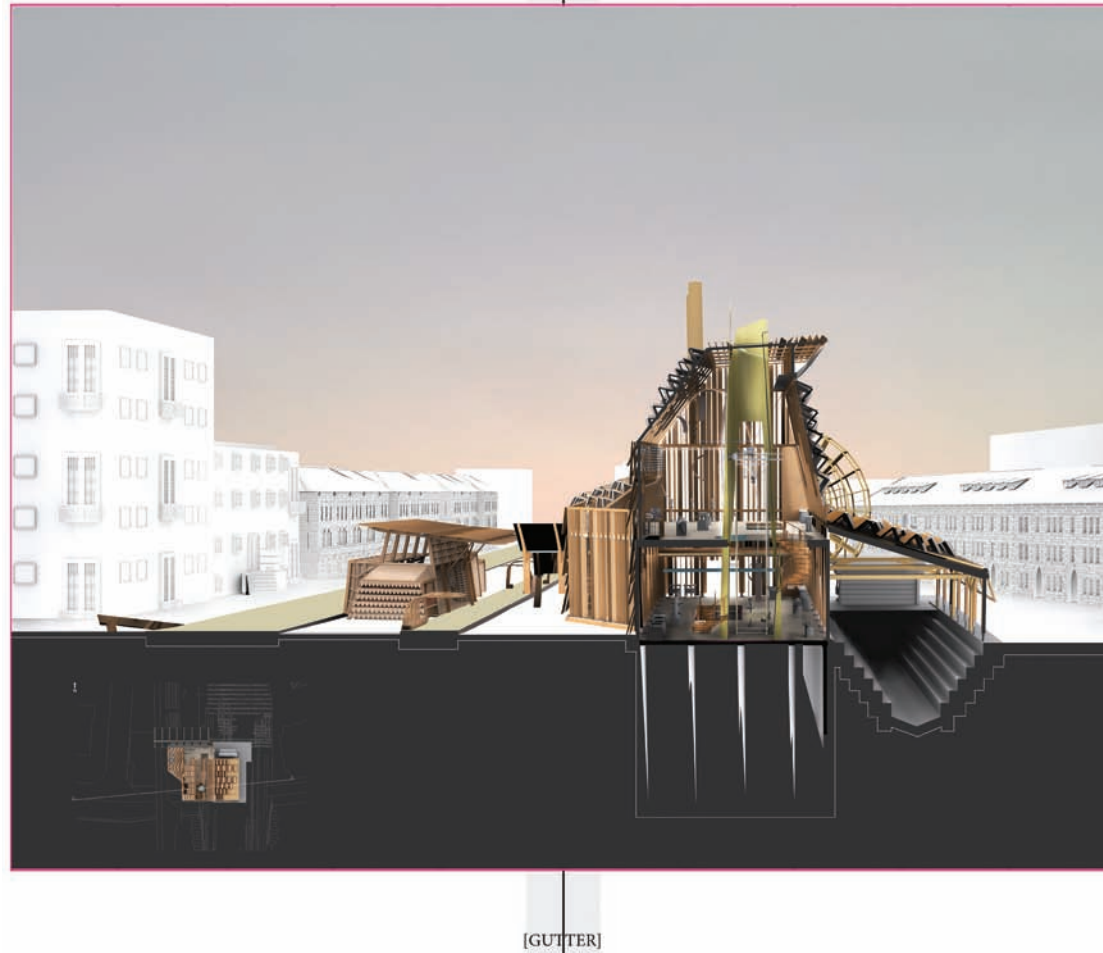
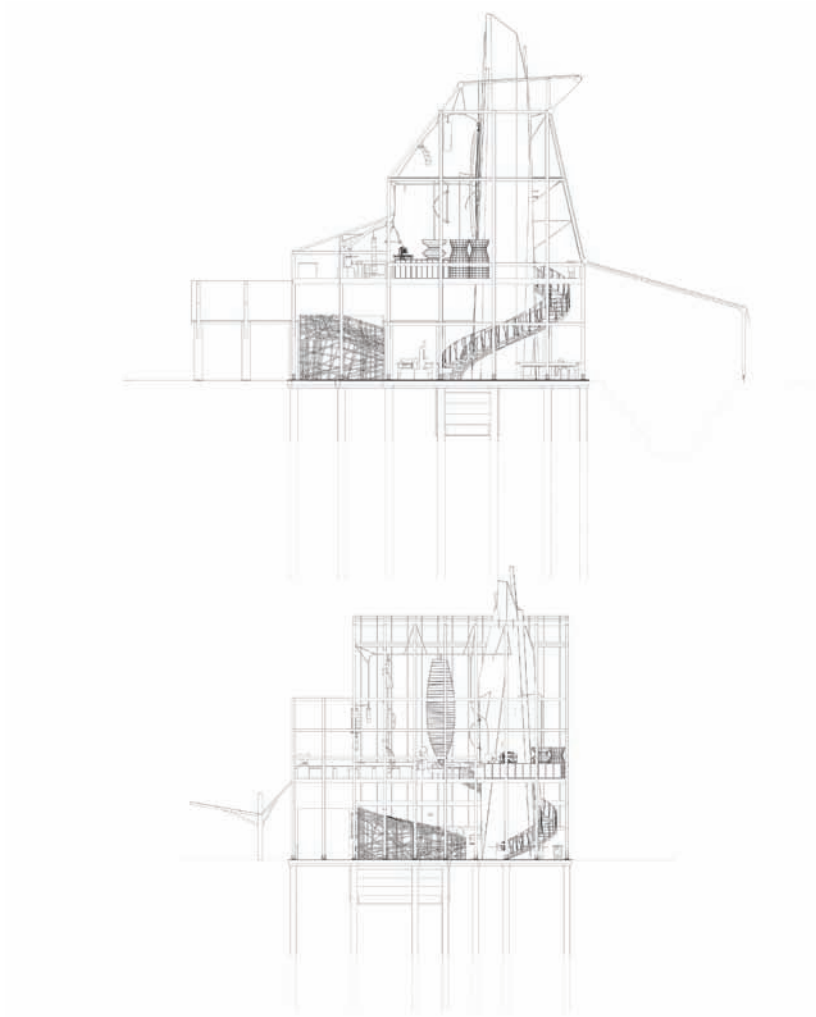


Figure 29: Section through wooden boat construction workshop in Brunel's Pier and the Timber Dockyard, 2016.



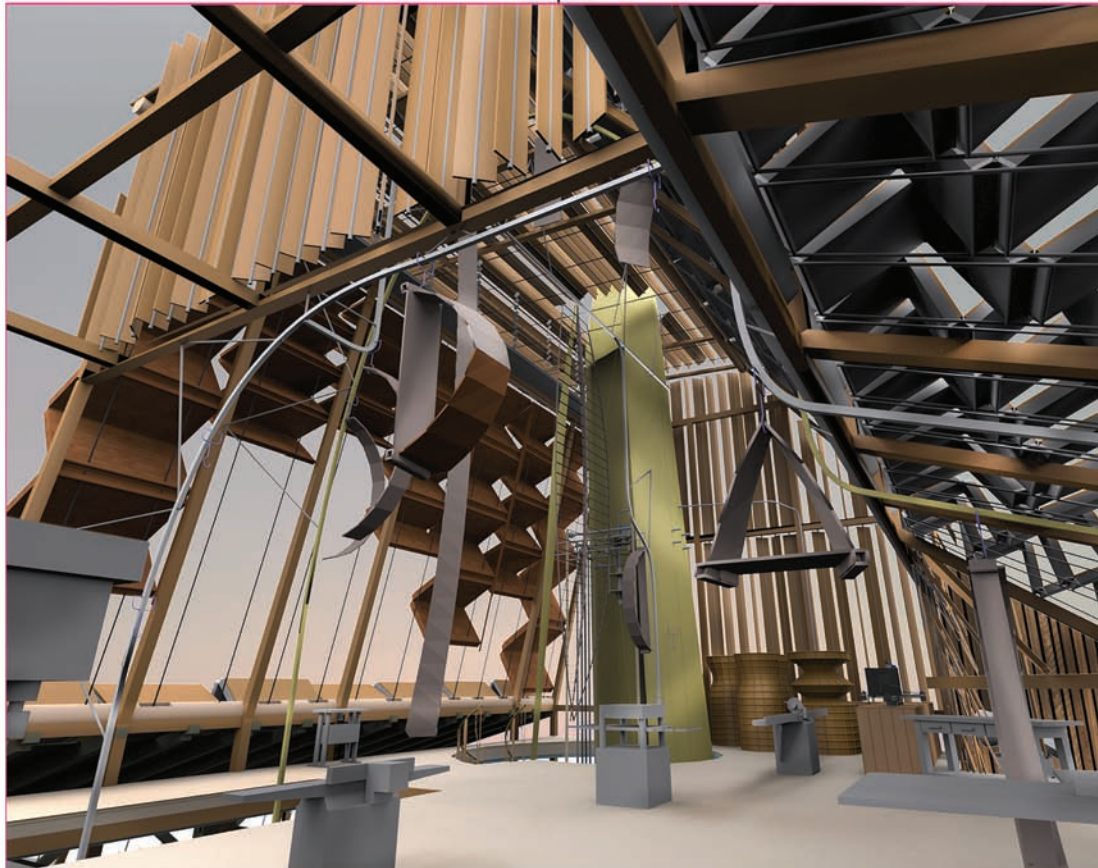
- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.
- 21.
- 22.
- 23.
- 24.
- 25.
- 26.
- 27.
- 28.
- 29.
- 30.
- 31.
- 32.
- 33.
- 34.
- 35.
- 36.

Figure 30: Sections through boat construction workshop in Brunel’s Pier and the Timber Dockyard, 2016.



Shaun Murray

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.
- 21.
- 22.
- 23.
- 24.
- 25.
- 26.
- 27.
- 28.
- 29.
- 30.
- 31.
- 32.
- 33.
- 34.
- 35.
- 36.



[GUTTER]

Figure 31: Interior of the main boat construction workshop in Brunel's Pier and the Timber Dockyard, 2016.

## Conclusion

For technologies to be useful in the design of architecture, we need to develop tactics to reveal something new. Technology is not a thing in itself, as it needs to be applied through a technique or techné. The objective of ENIAtype architecture is to design architecture through physical environmental data like Wi-Fi signals, light pollution, water Ph value, air speed and flow. We encourage the research group to question the architecture of cartographic technologies from Geographical Information Systems (GIS), Lidar scanning, aerial and geological surveys and complex transportation movements. The architecture is the outcome of the shifting relationships of our complex environment. All participants tailored the project brief to their own ideas of their own practice and everyone worked with a range of digital and analogue tools from 3D design, cartographic drawings and physical modelling. However, most of these third wave VR and augmented reality projects don't add anything meaningful to the field. Instead, they repeat the patterns of previous media and communication campaigns, such as museum guides and notice boards (now digital), and in some cases they even generate distraction and noise. These projects fail most notably when it comes to facing the debate about the materiality of objects and how to create immersive experiences. All of this happens at a time of such disruption that material and digital objects fuse together, a time when digital experimentation should help rethink the limits of analog materiality: its very presence, the notion of what is real and what is a copy, the body's involvement when engaging with an object, the role of archives, the concept of continuity within a gallery's exhibition, the relation between the visit and the after-visit in connection to the audience's virtual identities. The research group is trying to awake the energy contained in the environment. What is considered as empty space is just a manifestation of matter that is not awakened by the anonymous monster.

## Suggested citation

Murray, S. (2015), 'Architectural Forensics in Anonymous Monsters', *Design Ecologies*, 5: 1, pp. 130–168, doi: 10.1386/des.5.1.130\_1

## Contributor details

Shaun is a qualified architect and the director of ENIAtype, a transdisciplinary architecture practice founded in 2011. He is also editor-in-chief of the international design journal entitled *Design Ecologies*, which is published biannually through Intellect Books. Shaun was awarded a PhD in

Shaun Murray

1. Architecture through the Centre for Advanced Inquiry in Integrative Arts (CAiiA) -Planetary
2. Collegium, University of Plymouth in 2011. He is actively involved in the future practice and educa-
3. tion of architecture around the world, including six years teaching Masters in Architecture at University
4. College London (UCL)- Bartlett School of Architecture, four years teaching design and technology
5. (iDAT) at University of Plymouth, three years teaching reflexive architecture at (AHO), The Oslo
6. School of Architecture and Design with lectures, symposiums and exhibitions at Architectural
7. Association (AA), Royal College of Art (RCA), Vienna University of Technology, Royal Melbourne
8. Institute of Technology (RMIT), Victoria University in New Zealand, Mok Won University in Seoul,
9. Sung-sil University in Seoul and (CAFA) in Beijing. Shaun has written extensively about an ecological
10. and environmental architecture in many international journals and highlighted by his book, Disturbing
11. Territories (Springer Wein: 2006), which documents the complexities of unpacking the environment
12. through architectural design.

13. Contact: 10 Sunbury Lane, London SW11 3NP.
14. E-mail: shaun@eniatype.com
- 15.

16. Shaun Murray has asserted his right under the Copyright, Designs and Patents Act, 1988, to be
17. identified as the author of this work in the format that was submitted to Intellect Ltd.
- 18.