MANSTON MODULATION

A PROPOSAL FOR THANET'S FIRST DEPLOYABLE COMMUNITY RADIO STATION THAT HELPS REDEVELOP MANSTON AIRPORT INTO A RESIDENTIAL LANDSCAPE.



OVERALL STRATEGY

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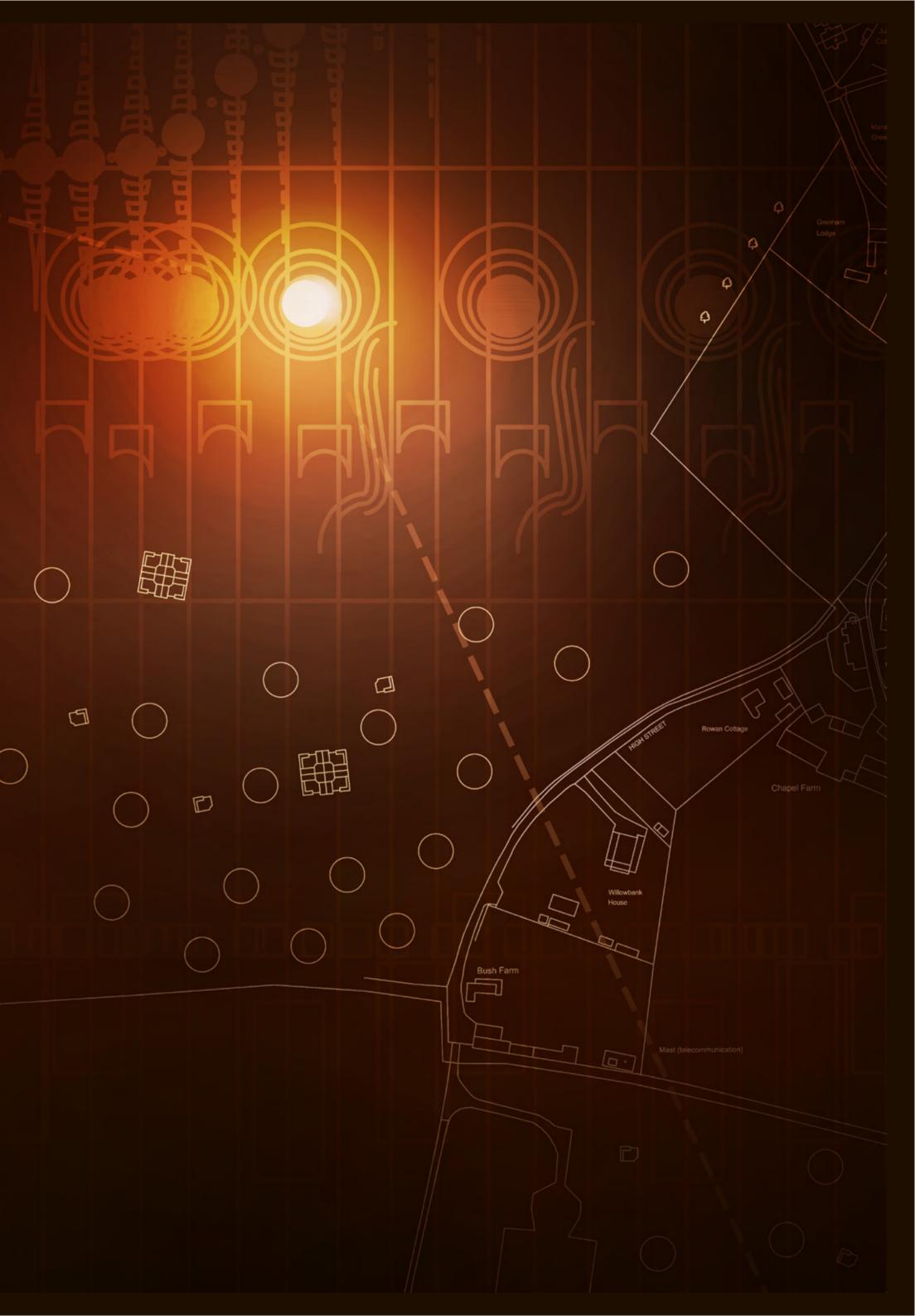
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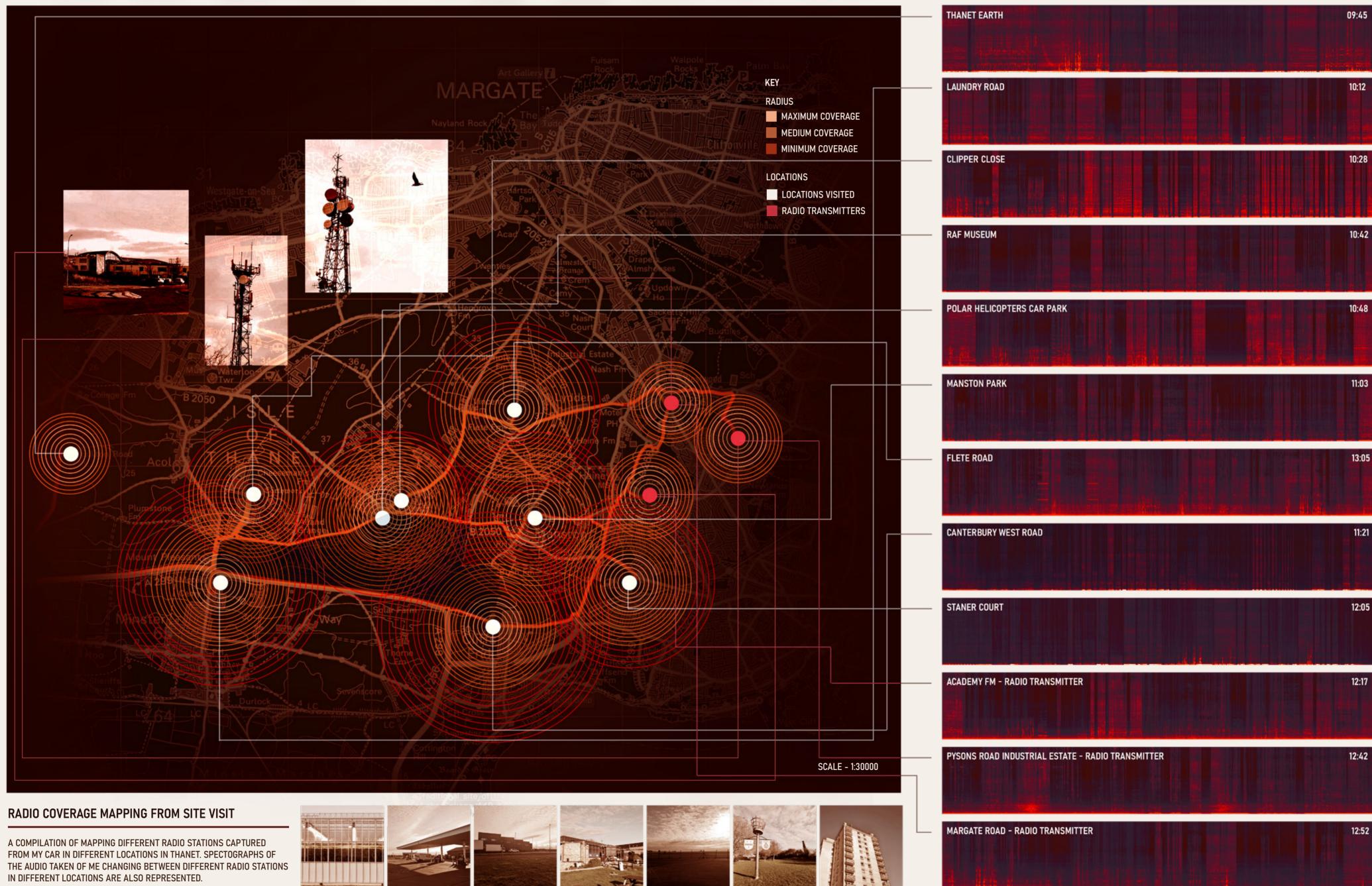
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SPREADSHEET OF CAPTURED RADIO STATIONS

		LOCATIONS VIS	TED						A CONNY		
	RADIO STATIONS	THANET EARTH	LAUNDRY ROAD	CLIPPER CLOSE	RAF MUSEUM	POLAR HELICOPTERS	MANSTON PARK	CANTERBURY WEST RD	STANER COURT	ACADEMY FM	PYSONS RD RADIO
ш	ACADEMY FM	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8
MAX COVERAGE	BBC KENT	104.2 + 97.6	104.2 + 97.6	97.6	104.2 + 97.6	104.2	104.2	104.2 + 97.6	104.2 + 97.6	104.2	104.2
/ER	BBC R2	90:0	90.0 + 88.5 + 88.7 + 89.7 + 88.1	90.0 +89.7	90.0 + 88.1	90.0 + 88.1 + 89.7	90.0 + 88.4	90.0 + 88.5	90.0 + 88.7	90:0	90:0
<u>S</u>	BBC R3	92.4	92.4 + 92.0	92.4 +91.9	92.4 + 90.3	92.4 +90.3	92.4 + 90.3 + 90.6 + 91.9	92.4 + 90.6 + 90.7	92.4	92.4	92.4
X	BBC R4	94.4	94.4 + 94.1 + 93.1 + 95.3	94.4 + 93.5	94.4	94.4 + 94.1	94.4 + 93.1	94.4 + 92.9	94.4 + 93.1	94.4	94.4
MA	CLASSIC FM	101.5	101.8 + 100.3 + 101.5	101.8	100.9	101.8	101.8	101.8 + 100.3	101.8	100.9	101.8 + 100.9
	BBC R1		99.5	99.5	99.5 + 97.7	99.5	99.5 + 98.0	99.5	99.5 + 98.3 + 98.8	99.5	99.5
	HEART		102.8	95.9 + 97:0 +103.1	95.9 + 103.1	95.9 + 103.1	95.9	95.9 + 103.1	95.9 + 103.1	95.9	95.9
	KMFM		106.8	107.2	106.0 +106.8 + 107.2	107.2	107.2	107.2 +106.0	107.2 + 108.0	107.2	107.2
벓	BLEUNORD	106.2	95.5		106.2	106.2	95.5	106.2	106.2		he
	MUSIQUE		89.4	89.4		89.4	89.4	89.4	89.4 + 88.7		
KE	INTER		104.7	103.3		104.7	103.3	104.7	104.7		
COV	KISS	106.4	106.4	106.4	106.4	106.4					
Σ	BBC ESSEX		95.3	95.3	95.3	95.3	95.3				
Ē	HEART SX			96.3 + 102.6	96.3	96.3	96.3	96.3			
	INFO		105.6			106.5	106.5	106.5	105.6		
	RTL2		99.2			99.2		99.2	99.2		
	RFM		102.5		102.5	102.5			102.5		
	BBC R6		92:0				92	92			
	VIRGIN						91.5	91.5	91.5		
10	CULTURE		99.9					99.9	99.9		
E	RIRE &						93.3	93.3			
8	BBC SUSSX		104.5					104.5			
2	FUNKY SX			103.7							
É.	SKYROCK							92.7			
N	CAPITAL SOUTH EAS	π						102.4			
Ŧ	ABSOLUTE RADIO							105.2			

WORLD JAM GLOBAL

WEB RADIO STATION

AIM - PROMOTING GOOD REGGAE, R&B, SOCA, HOUSE AND OTHER GENRES OF MUSIC IN A GLOBAL FORMAT

DANE COURT RADIO

LOCAL SCHOOL RADIO STATION (FM + DAB)

AIM - PROVIDING THE SCHOOL'S POPULATION WITH ENTERTAINMENT, NEWS AND INFOR-MATION WHICH WILL ULTIMATELY BUILD UP COMMUNITY SPIRIT.

ACADEMY FM

LOCAL RADIO STATION (FM + DAB)

AIM - PROVIDING A MIX OF MUSIC, LOCAL NEWS AND INFORMATION BUT ALSO ACTING AS A FACILITY OFFERING STUDENTS AND THE LOCAL COMMUNITY A UNIQUE INSIGHT INTO RADIO BROADCASTING.

AIM - PROVIDING THE LATEST BREAKING NEWS AND SPORT, FEATURES AND DETAILS OF THE BEST OF WHAT'S ON IN AND AROUND THE COUNTY.

RADIO STATIONS HOUSED IN THANET

SCALE - 1:30000

MAPPING RADIO STATIONS

A COMPILATION OF MAPPING DIFFERENT RADIO STATIONS HOUSED IN THANET AND A SPREAD SHEET OF THE RADIO STATIONS CAPTURED DURING THE SITE VISIT, RESULTING IN FINDING WHAT RADIO STATIONS SEEMS TO BE MORE PROMINENT IN THANET.

OWER	MARGATE RD RADIO TOWER	FLETE ROAD		
	107.8	107.8		
	104.2	104.2		
	90:0	90.0 + 88.1 + 88.5 + 98.6		
	92.4	92.4 + 90.3 + 90.7 + 91.9		
	94.4	94.4 + 92.9 + 93.5 + 94.1		
		101.8 + 100.9 + 101.5		
	99.5	99.5		
	95.9	95.9 + 97.0		
	107.2	107.2		
		106.2 + 95.5		
		89.4		
		104.7		
		106.4		
		95.3		
		96.3		
		105.6		

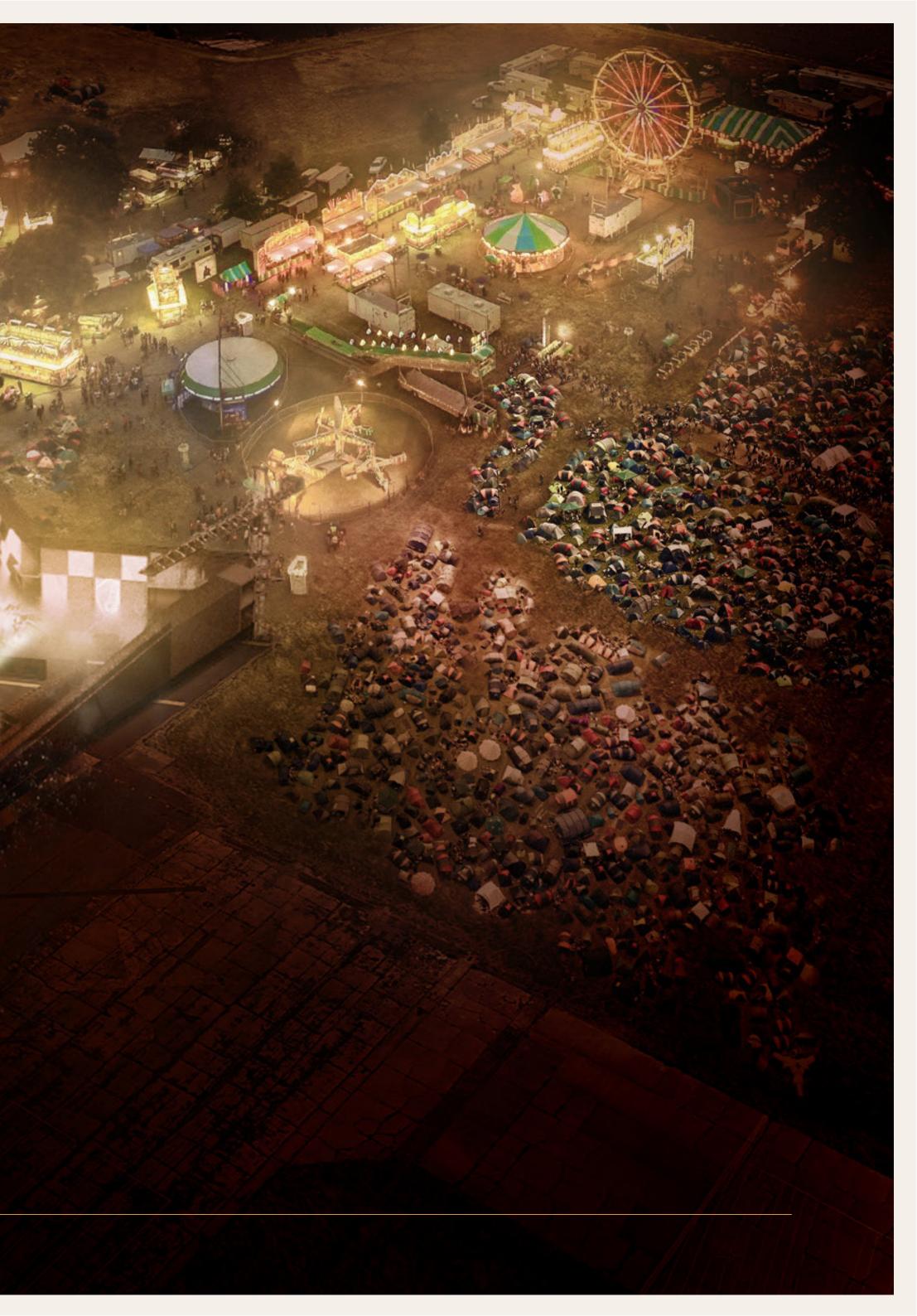
99.2 102.5

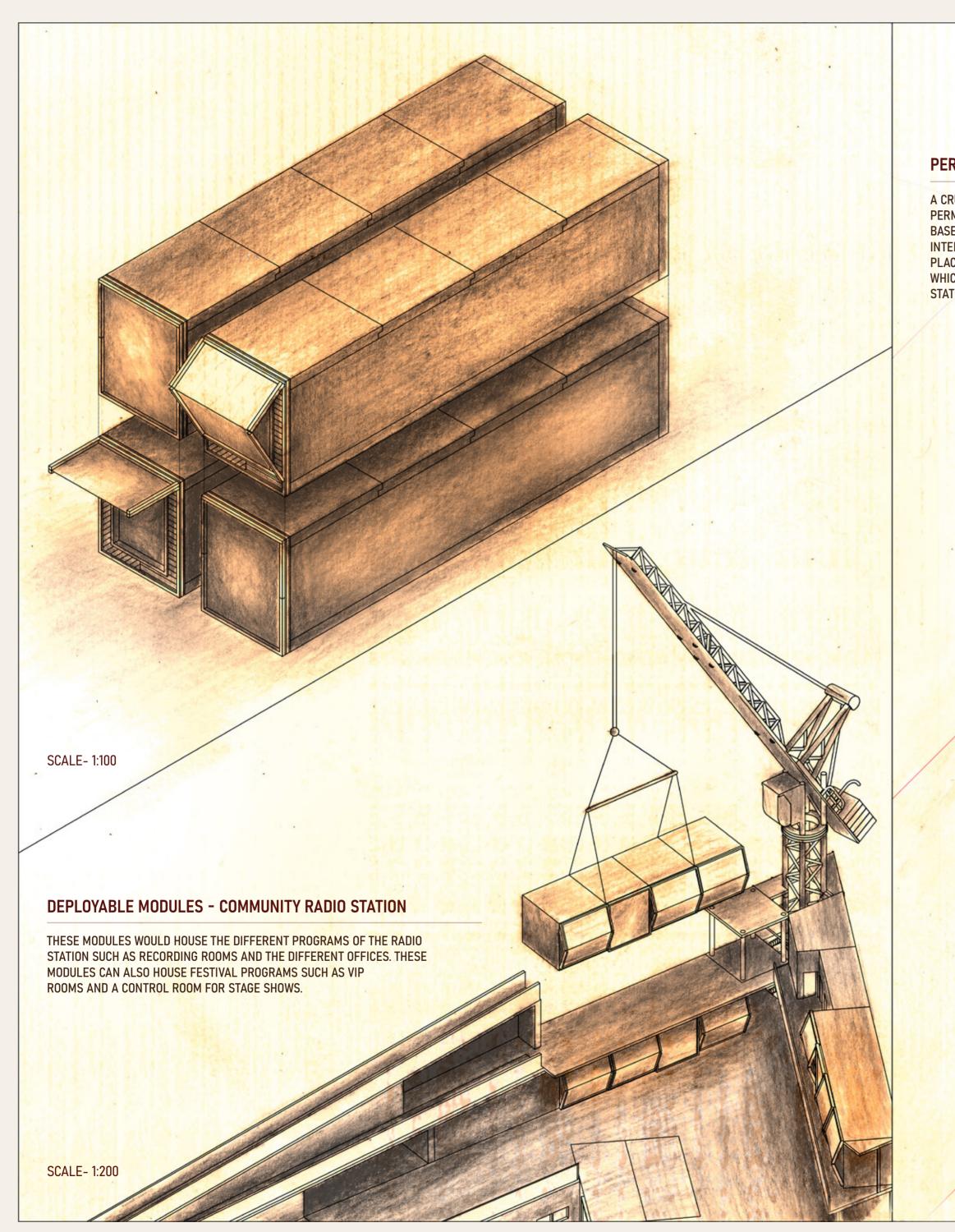
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KMFM THANET RADIO STATION (FM + DAB)









SCALE- 1:200

PERMENANT BASE - COMMUNITY HUB

A CRUCIAL COMPONENT THAT THE COMMUNITY RADIO STATION BRINGS IS A PERMENTANT BASE IN WHICH THE RADIO STATION MODULES CAN SIT. THE BASE WOULD BECOME A COMMUNITY HUB FOR THE SITE AND CREATE AN INTERESTING END TO THE RUNWAY. THE MODULES WOULD BE ABLE TO BE PLACED IN TO THE BASE THROUGH THE USE OF PERMENENT CRANES, WHICH ARE INTEGRATED INTO THE BASE. THIS ALLOWS THE RADIO STATION TO BE INTEGRATED INTO THE COMMUNITY HUB.

ESTABLISHING COMPONENTS

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THESE ARE THE MAIN COMPONENTS THAT WILL BE FOCUSED ON FOR THE PROJECT.

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1.44

1.18

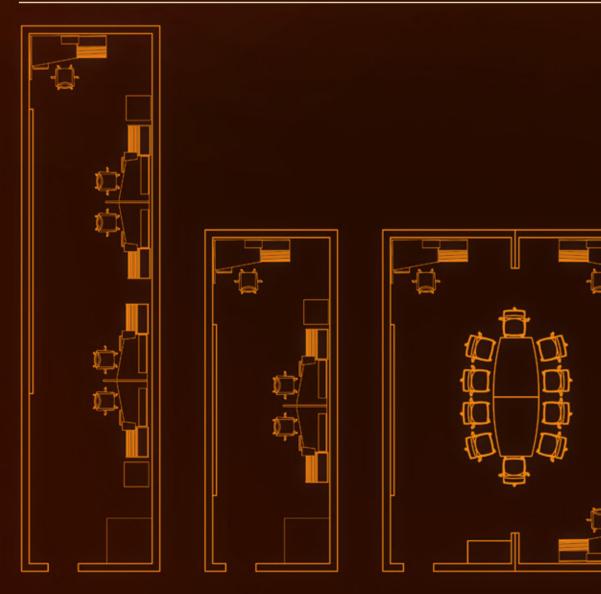
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Control Station Program Breakdown	Radio Staion (Private)	Radio Staion (Semi-Private)	Emergency (Private)	Flexible (Public)
All Programs				
Production Manager				
Production Producer				
Music Director				
Studio Manager Office				
General Management Team				
Marketing Department				
Traffic Team				
Financial Team				
Sponsorship Team				
HR Team				
Equiptment Room				
Meeting Room				
Storage Area				
Lounge Room				
Recording Studio - Morning				
Recording Studio - Evening				
Rentable Recording Studio				
Recording Studio - Performance Room				
REACT Team				
RELAY Team				
REACT + RELAY Team Manager				
Eperimental Plazas				
Reception				
Cafe				
Community Club Rooms - could merge with stage				
Auditorium - Expandable - Changed into a stage				
Sky Bar				
Space for Food Trucks/ Pop-up Shops				

STANDARD LAYOUTS



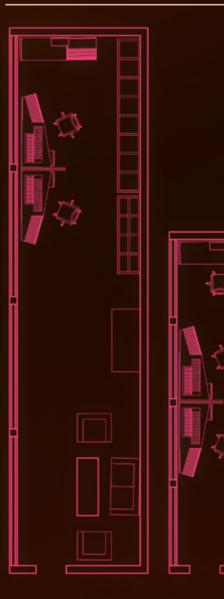
RADIO STATION MODULES

GENERAL MANAGEMENT TEAM/ HR FINANCE/ SPONSORSHIP TEAM MARKETING/ TRAFFIC TEAM



TICKETING TEAM

CUSTOM LAYOUTS



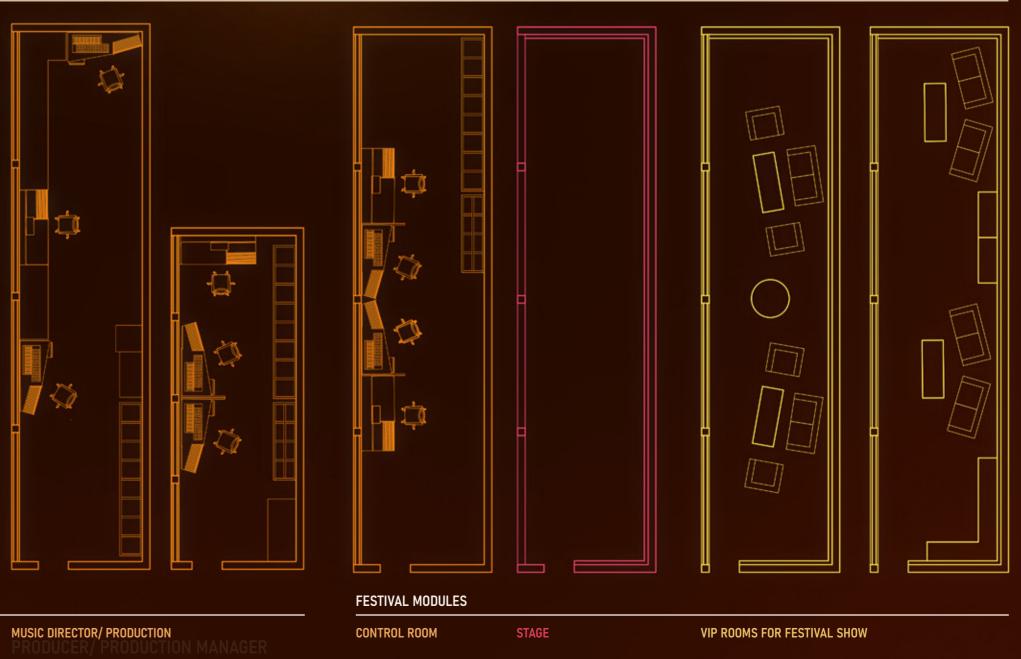
RADIO STATION MODULES

RECORDING ROOM

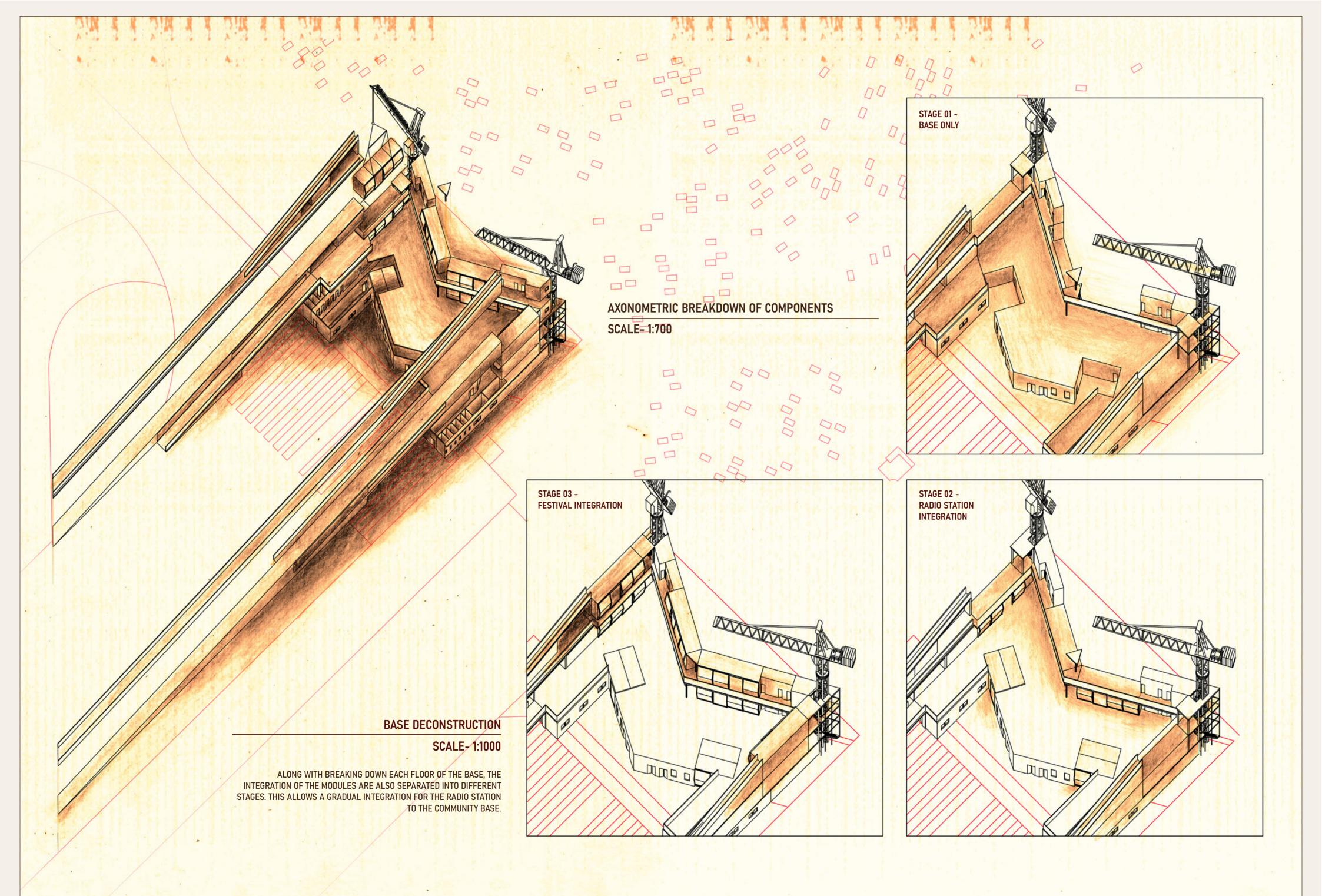


PROGRAM DEVELOPMENT FOR MODULES

THIS PAGE CONSISTS OF A COMPLETE BREAKDOWN OF PROGRAMS FOR THE COMMUNITY RADIO STATION. THE MODULES WOULD CATER TOWARDS THE DIFFERENT PROGRAMS AND DIFFERENT LAYOUTS ARE ESTABLISHED.



SCALE- 1:100



STAGE 03 - GROUND FLOOR PLAN

SCALE- 1:400

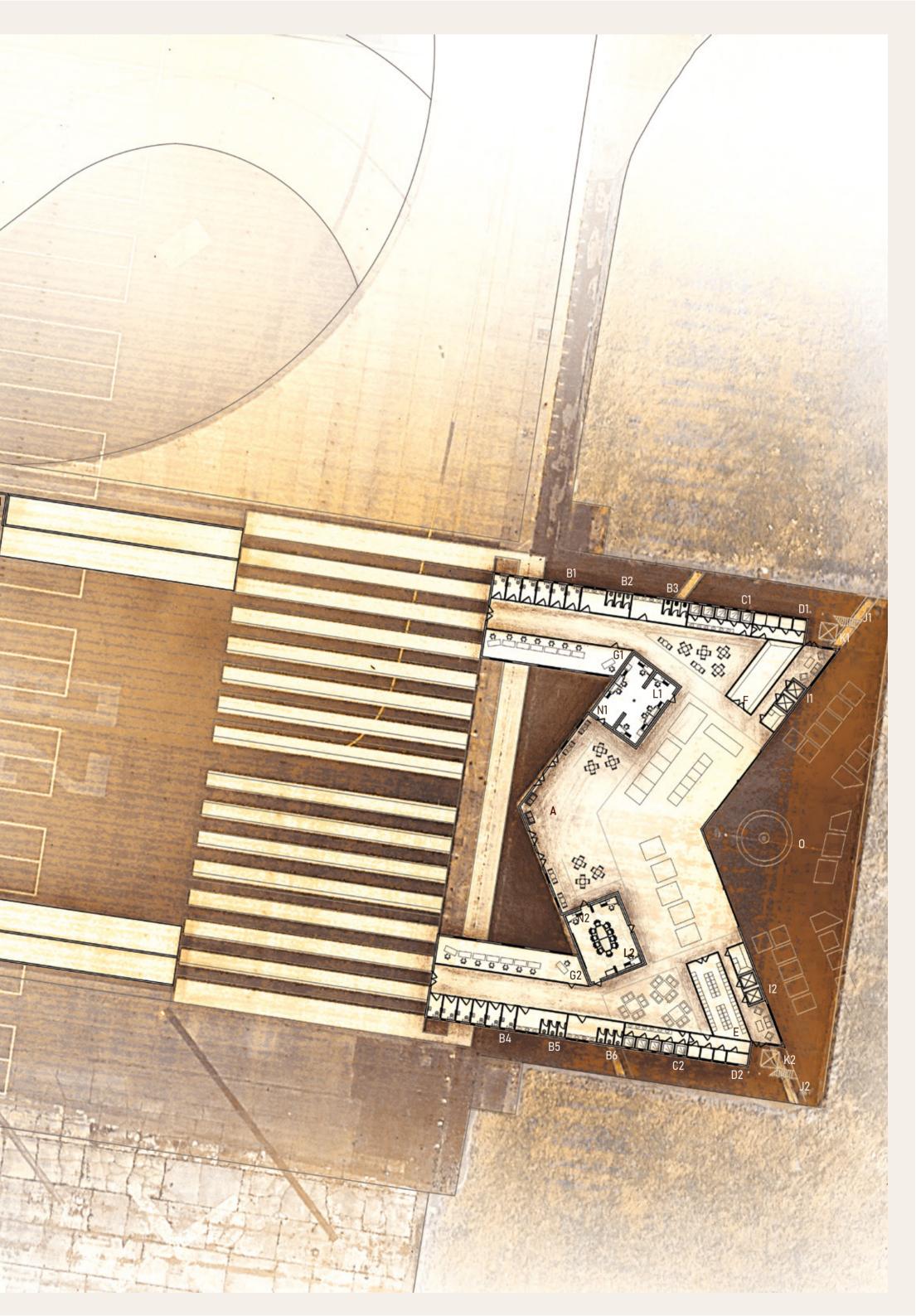
KEY

A. MARKET SPACE B. TOILETS C. SHOWERS D. CHANGING ROOMS E. LAUNDRY ROOM F. SHARED KITCHEN G. COMMUNITY CLUBS H. SOCIAL POCKETS I. LIFTS J. STAIRS

K. LUFFING JIB CRANES L. RADIO STATION MODULE L1. GENERAL MANAGEMENT TEAM L2. MEETING ROOM

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M. LOUNGE ROOMS N. FESTIVAL ORGANISATIONS O. EXTERIOR MARKET SPACE



STAGE 03 - FIRST FLOOR PLAN

SCALE- 1:400

KEY

A. STAGE SPACE B. LOUNGE ROOMS C. LIFTS D. STAIRS

E. LUFFING JIB CRANES F. SOCIAL POCKETS G. STORAGE AREA L. RADIO STATION MODULE L1. MORNING RECORDING ROOM L2. EVENING RECORDING ROOM L3. MUSIC DIRECTOR L4. PROGRAM PRODUCER

N



STAGE 03 - SECOND FLOOR PLAN

SCALE- 1:400

KEY

A. LOUNGE ROOMS B. LIFTS C. STORAGE AREA D. STAIRS E. LUFFING JIB CRANES F. FESTIVAL MODULE F1-2. VIP ROOM F2. CONTROL ROOM F3. EQUIPTMENT ROOM

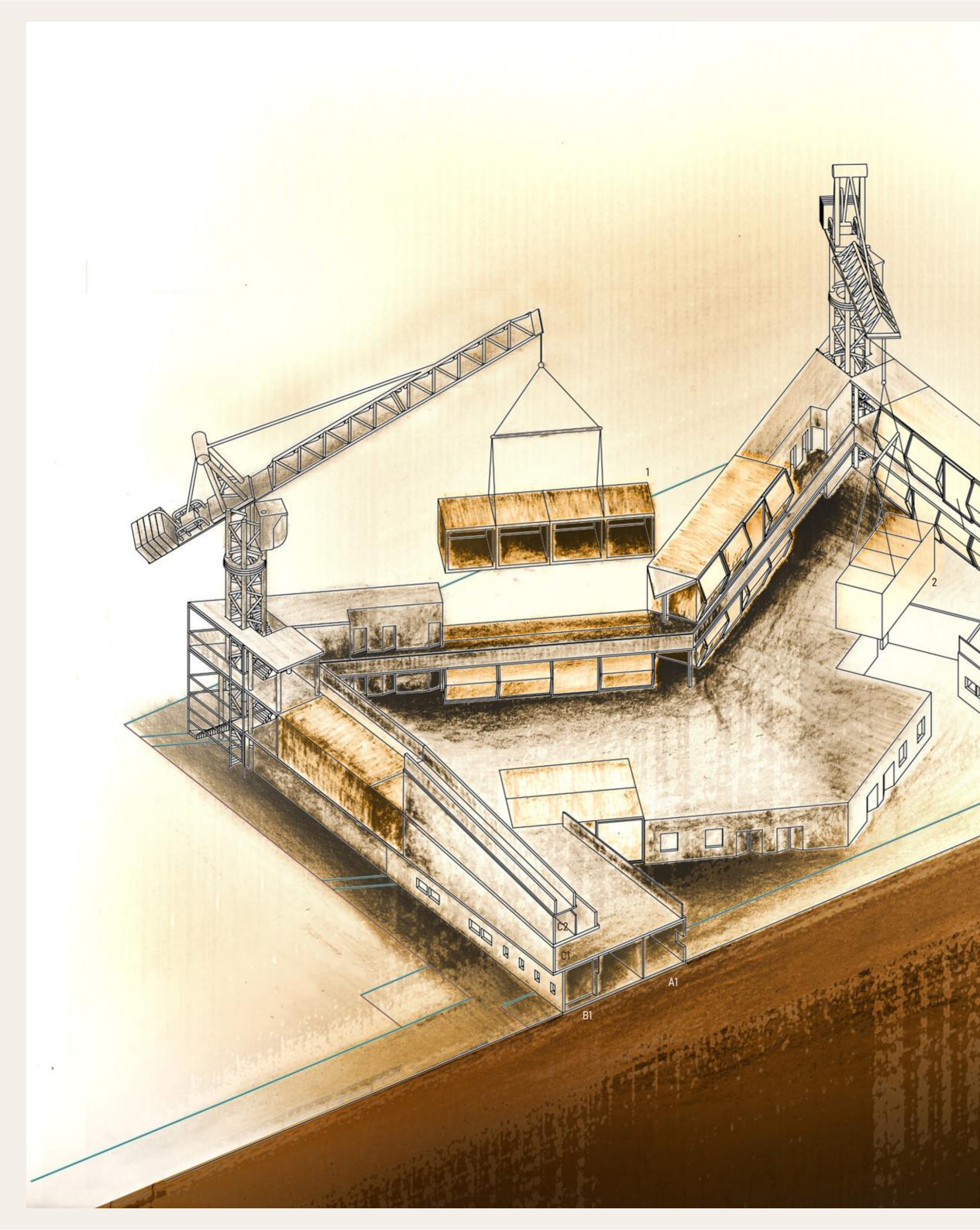
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STAGE 03 - ROOF PLAN SCALE- 1:400 N (

KEY A. LUFFING JIB CRANES



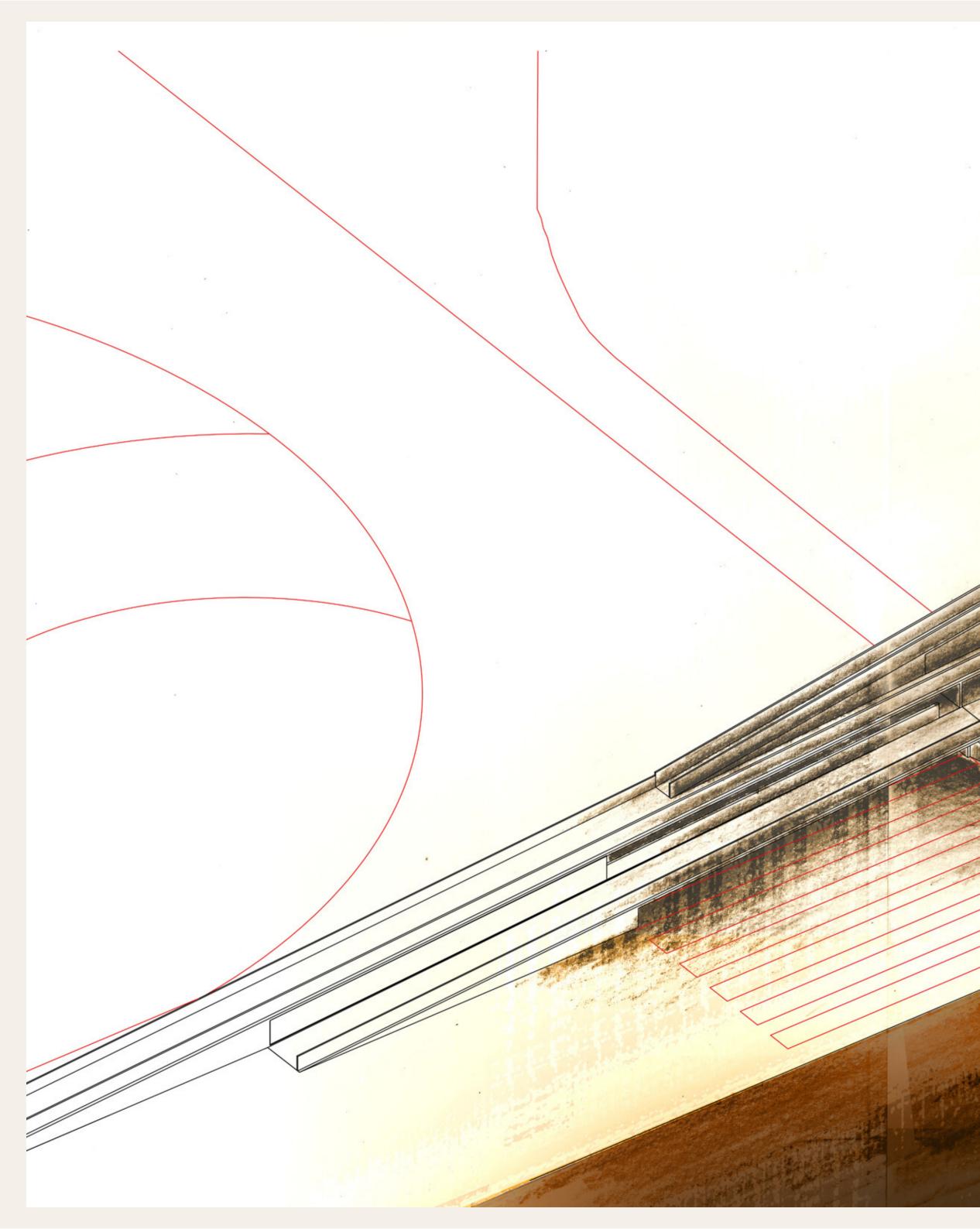


TRANSVERSAL SECTION

SCALE- 1:150

KEY A. COMMUNITY CLUB SPACE1. VERICALITY OF THE BASEB. TOILETS2. COMPLETION OF STAGEC. SOCIAL POCKET2. COMPLETION OF STAGE

INFLUENCE OF RADIO STATION



LONGITUDINAL SECTION

SCALE- 1:150

KEY A. MARKET SPACE B. EXTERIOR MARKET SPACE

INFLUENCE OF RADIO STATION 1. CIRCULATION OF STRUCTURE

MASTERPLAN STRATEGY

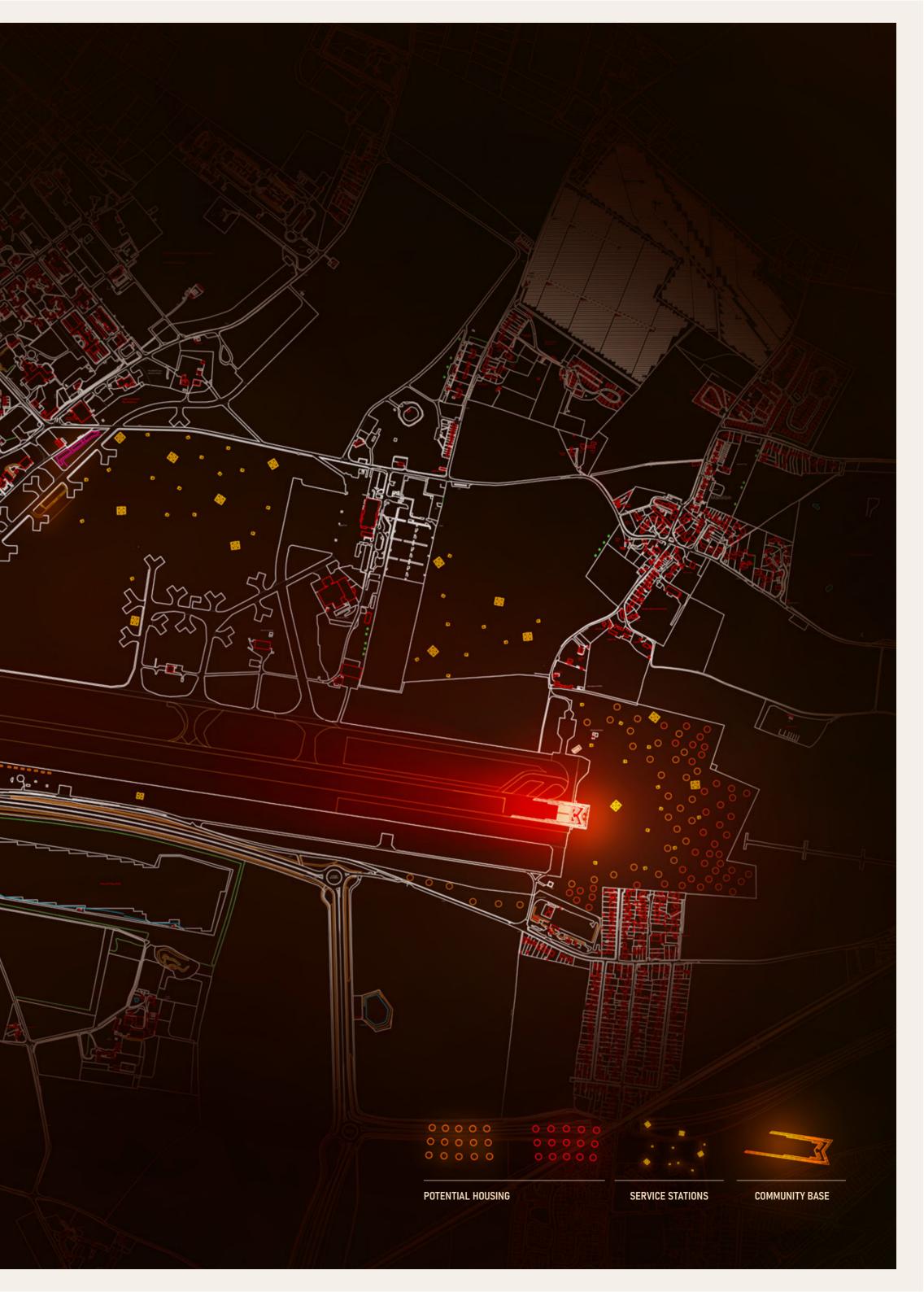
ESTABLISHING THE FIRST BASE

THE COMMUNITY RADIO STATION WOULD ESTABLISH IT'S FIRST BASE, DEFINING THE END OF THE RUNWAY.

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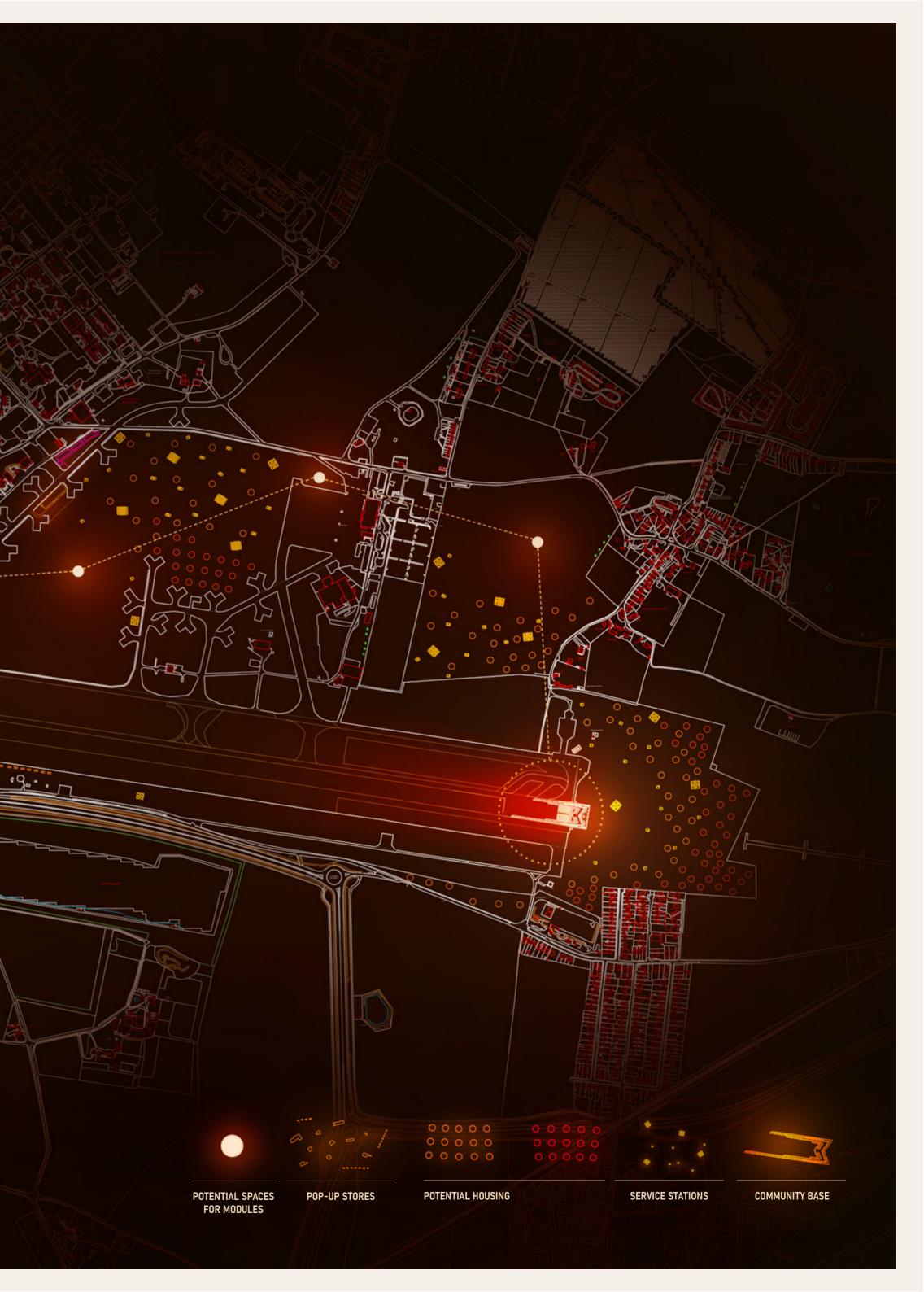
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MASTERPLAN STRATEGY

POTENTIAL AREAS FOR MODULES WITHOUT BASE

THE RADIO STATION WOULD BE ABLE TO TRAVERSE TO DIFFERENT POINTS, AND MAY NOT NEED TO ESTABLISH A PERMENENT BASE FOR EACH POINT. OVERTIME, THE RADIO STATION WOULD START TO ESTABLISH DIFFERENT COMMUNITIES AND CREATES CLUSTERS OF HOUSES THROUGHOUT THE SITE.



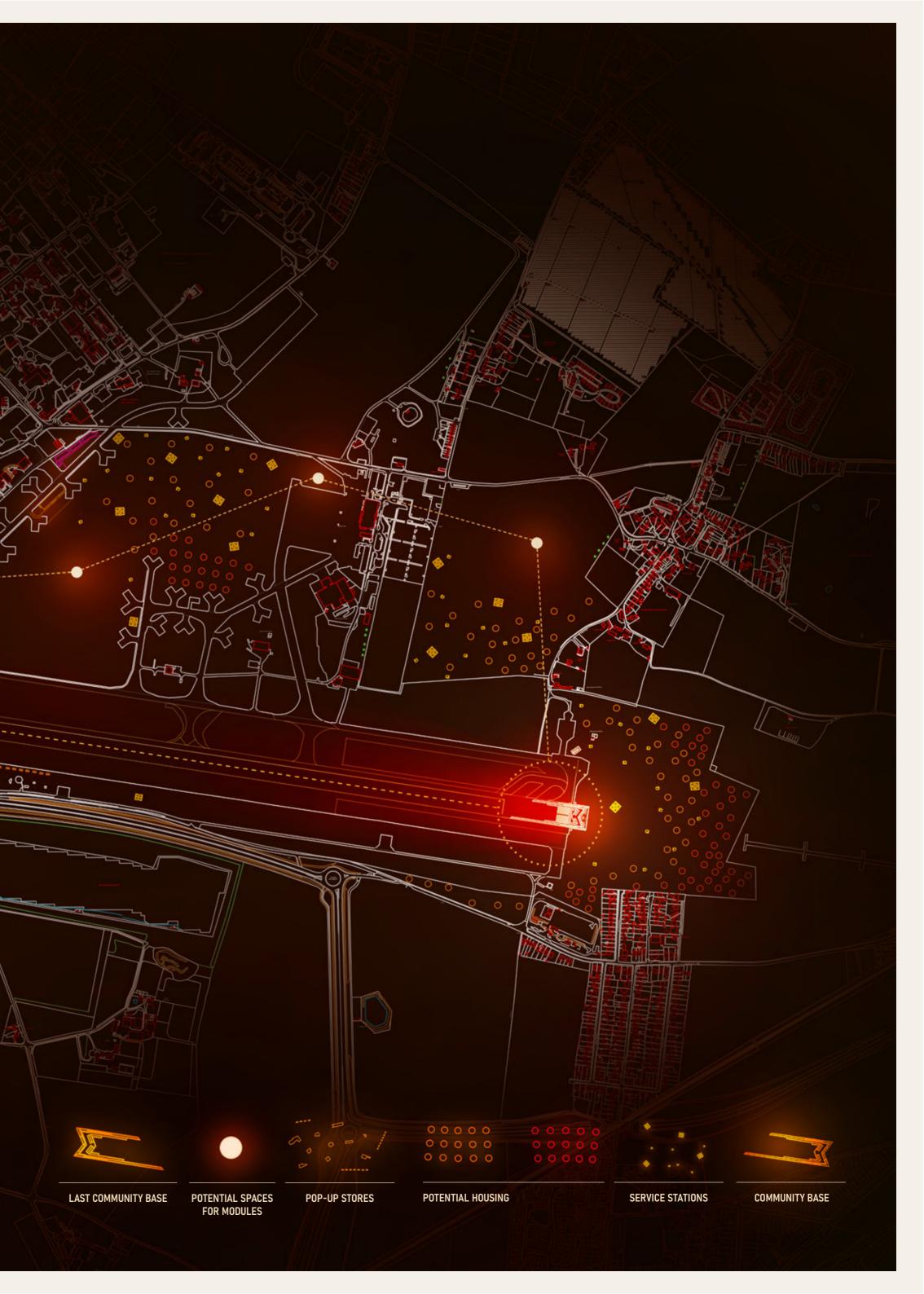
MASTERPLAN STRATEGY

ESTABLISHING THE LAST BASE

THE RADIO STATION WOULD LASTLY ESTABLISH IT'S LAST BASE AT THE BEGINNING OF THE RUNWAY. THIS CAUSES THE PERMENENT BASES TO BECOME BOOKENDS TO THE RUNWAY, COMPLETING THE SITE. OVERALL, THIS REDEVELOPS THE SITE INTO A RESIDENTIAL LANDSCAPE AND A COMMUNITY HUB.

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MASTER PLAN - INFRASTRUCTURE

SCALE- 1:2500

A CLOSER LOOK AT THE PROPOSED INFRASTRUCTURE FOR THE REDEVELOPMENT OF MANSTON AIRPORT. THE PROPOSED INFRASTRUCTURE WOULD HELP PROVIDE BASIC NESSESSITIES ALONGSIDE THE SERVICE STATIONS.

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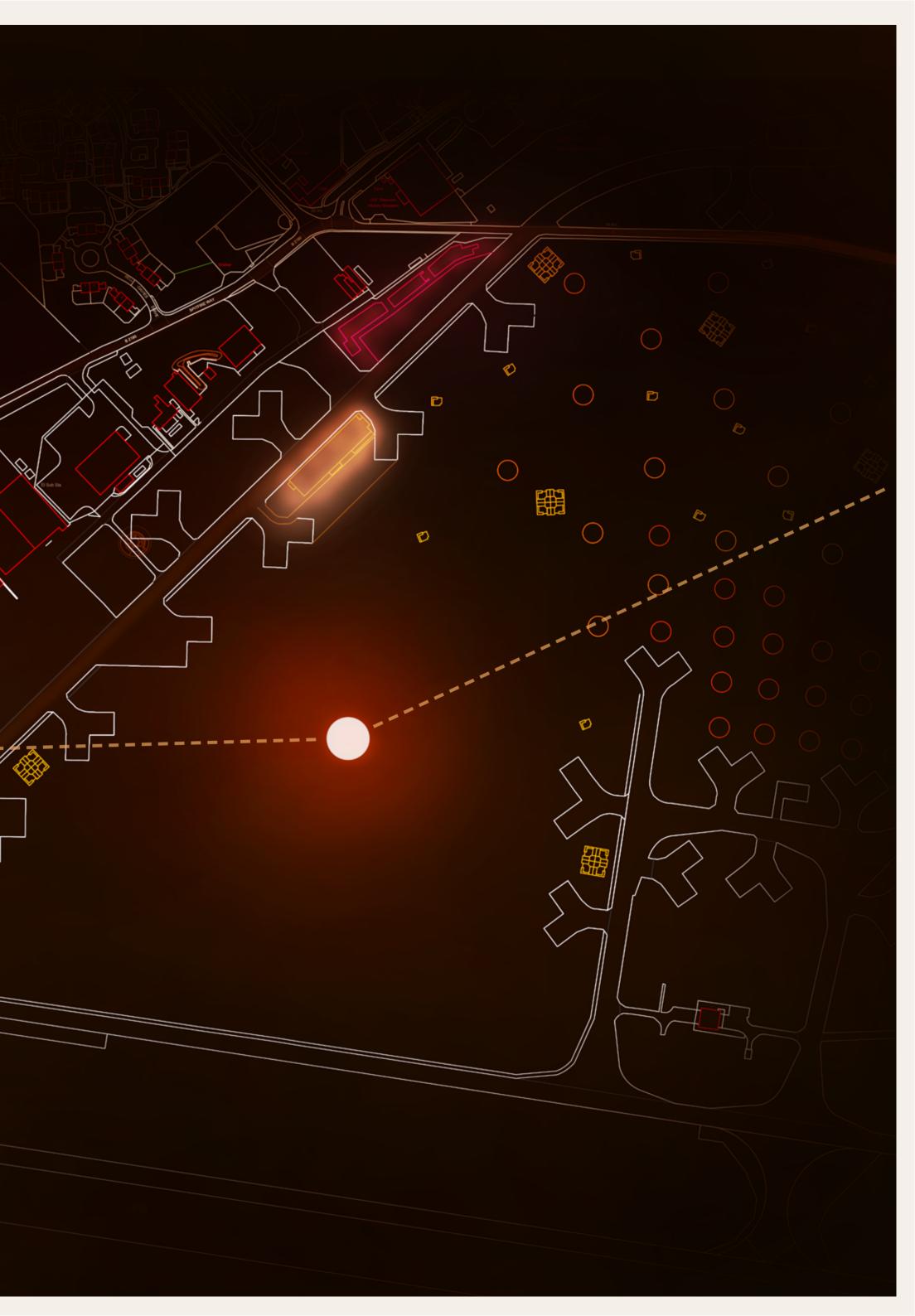
COMMERCIAL (SHOPS)

LEISURE (HOTELS)

CULTURAL (COMMUNITY CLUBS)

RECREATIONAL (GYM, RESTAURANTS, BARS)

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PARS PRO TOTO

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A DEVELOPMENT OF STRUCTURAL, MATERIAL, TECHNICAL AND ENVIRONMENTAL SYSTEMS, LAYERS AND COMPONENTS OF THE DESIGN PROJECT.

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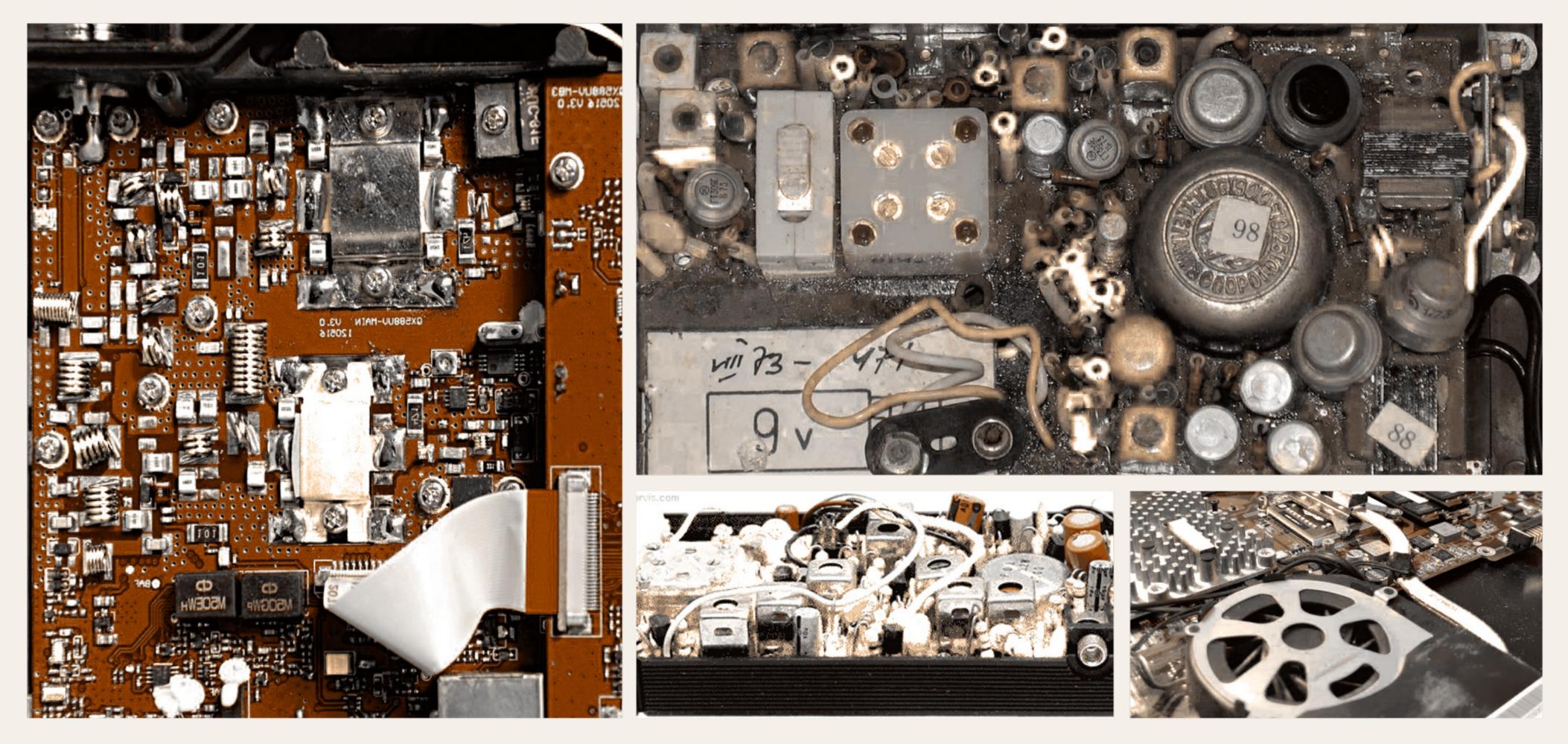
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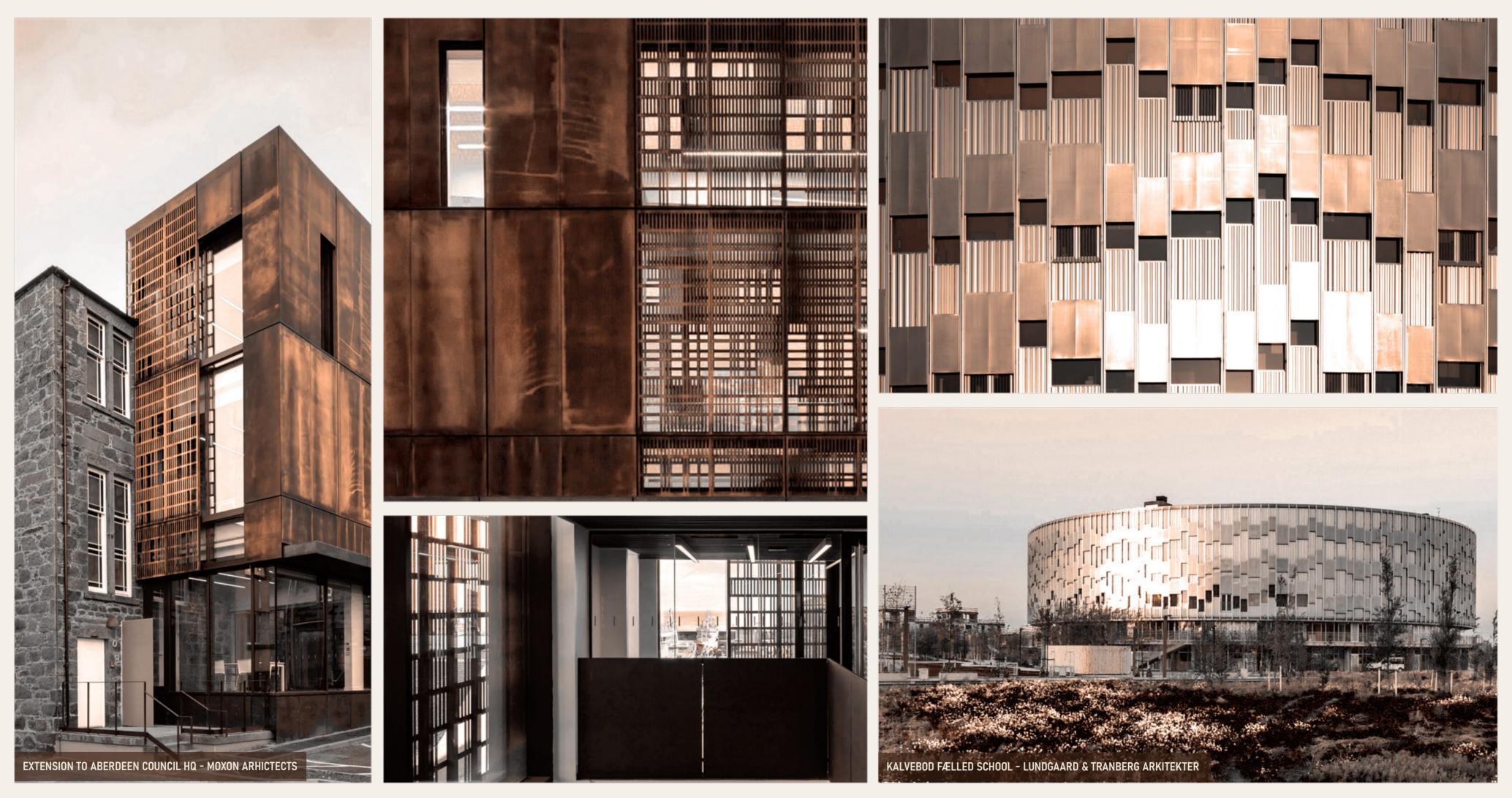
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INITIAL PRECEDENT - INSIDE RADIO



THE COLOURFUL AND CLUSTERED COMPONENTS HOUSED INSIDE OF RADIOS FOR MY STRUCTURES SERVED AS AN INSPIRATION FOR THE TECHNOLOGICAL ASPECTS OF MY DESIGN PROJECT. EACH COMPONENT HAS A UNIQUE FORM, SERVING A PURPOSE FOR COMMUNICATION AND ENTERTAINMENT.



MATERIALITY PRECEDENT - PERFORATED METAL FACADE

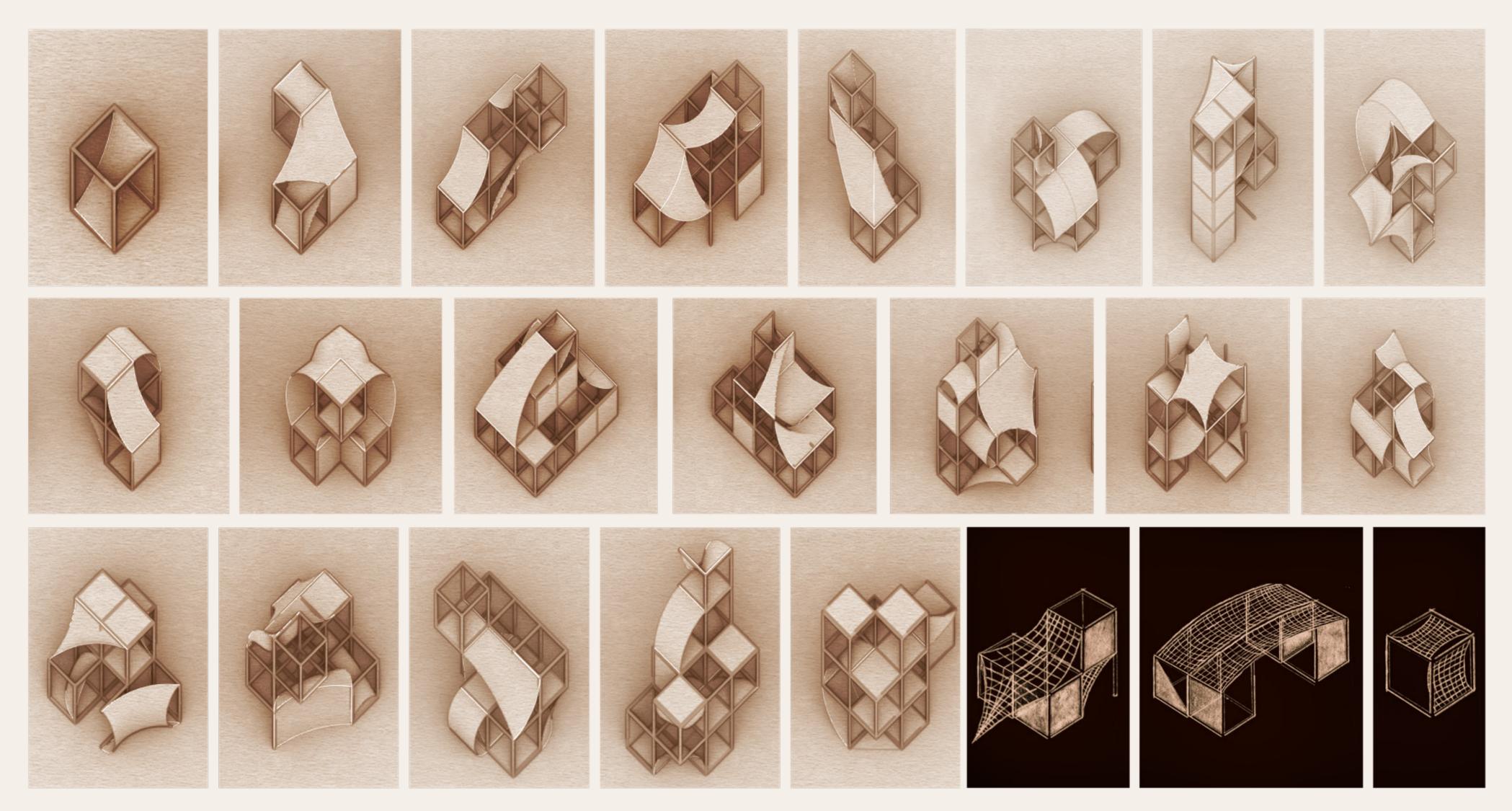
TO ELICIT THE FEELING OF ENTERING ONE OF THE TECHNOLOGICAL COMPONENTS OF AN ANALOGUE RADIO, I WANTED TO MAKE MAKE MY STRUCTURE LOOK RUSTIC TO HIGHLIGHT THE ANALOGUE PRESENSE OF RADIO.



PRECEDENTS

COMBINATIONS OF MODULAR STRUCTURES AND TENT STRUCTURES

IN THE SPIRIT OF CREATING A MOBILE RADIO STATION, I WANTED TO LOOK INTO TEMPORRY ARCHITECTURE. THESE INCLUDE EXPLORING MODULES AND INTEGRATING FABRIC WITHIN THE STRUCTURE. MODULE ARCHITECTURE WOULD HAVE A QUICKER CONSTRUCTION PERIOD FROM THE USE OF CRANES THROUGH BRINGING SIMPLICITY IN CONSTRUCTION. TENSILE ARCHITECTURE FITS WITH THE THEME OF TEMPORARITY STRONGLY, FROM THE VERSITILITY OF HOW THE FABRIC CAN BE USED, FROM SOLAR SHADING TO BECOMING A SCREEN TO PROJECT LIGHTS AND VIDEOS.

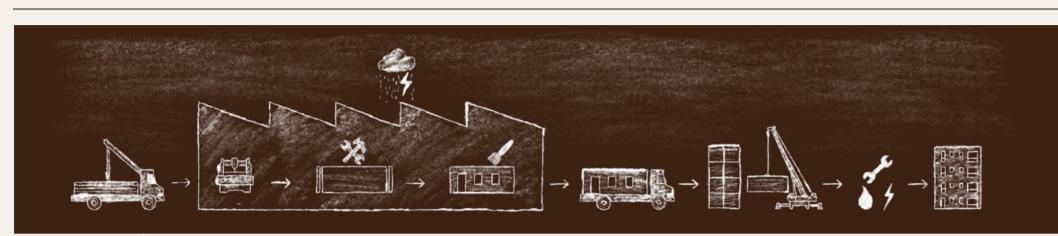


FURTHER EXPLORATION OF TENT STRUCTURES

THIS PAGE SHOWCASES AN EXPLORATION OF HOW TENSILE STRUCTURES COULD BE INTEGRATED INTO MODULAR FRAMEWORKS. THIS WAS ACHIEVED THROUGH ITERATIVE DIGITAL MASSING AND SKETCHES.

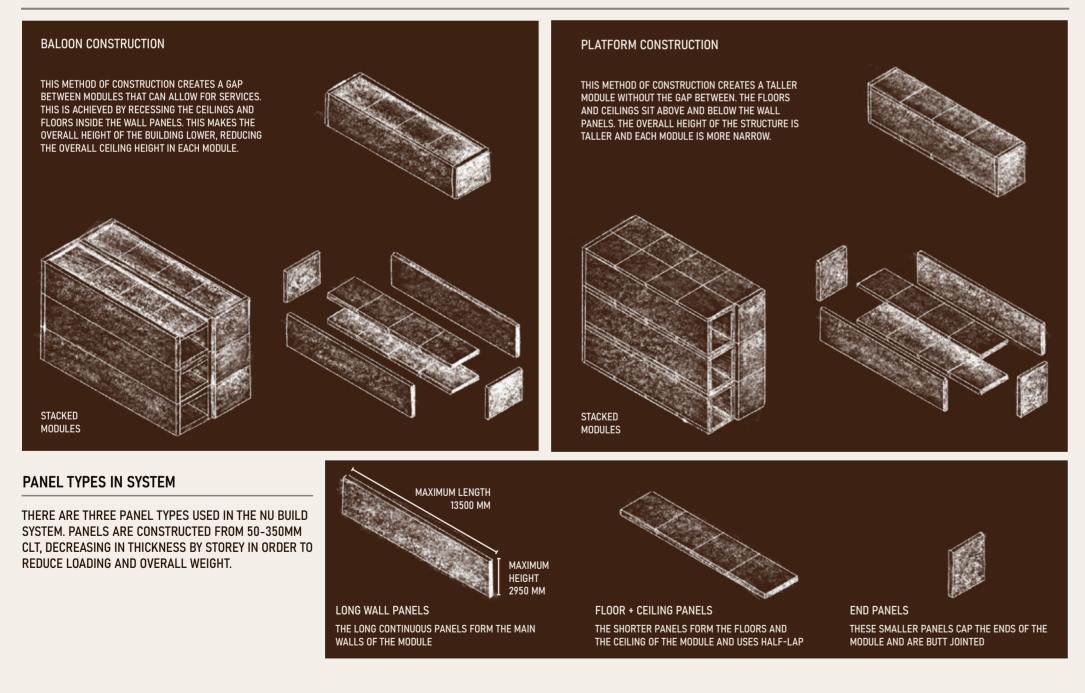
ESTABLISHING ARCHITECTURAL SYSTEMS - NU BUILD MODULAR SYSTEM

PROCESS



THE MODULAR, PANELISED CONSTRUCTION PROCESS CONSISTS OF CLT PANELS BEING SHIPPED TO THE FACTORY, WHERE THEY WOULD BE CUT TO SPECIFICATION AND CONSTRUCTED AS MODULES. THIS LEADS TO MODULES BEING TRANSPORTED TO THE REQUIRED SITE, WHERE CRANES WOULD LIFT AND STACK THE MODULES. CLT PANELS ARE PROCESSED USING AUTOMATIC PROFILING AND CNC-CONTROLLED JOINERY MACHINES. DATA FROM BIM MODELS ARE FED INTO CNC MACHINES TO CUT OUT PENETRATIONS. WASTE FROM CLT PANELS IS USED TO MAKE WOOD CHIPS, WHICH COULD HEAT THE FACTORY. OVERALL, THIS PANELISED SYSTEM CAN OFFER THE QUALITIES OF A TRADITIONAL BUILD WITH THE ADVANTAGES OF OFFSITE PRODUCTION.

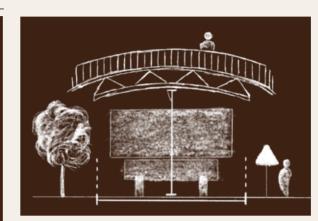
CONSTRUCTION TYPES



RESTRICTIONS AND CONSIDERATIONS TO NOTE WITHIN SYSTEM

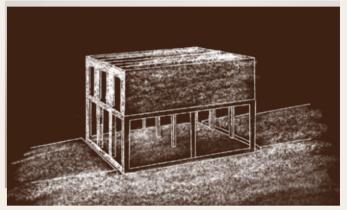
ALIGNMENT OF OPENINGS FOR MODULES





TRANSPORTATION OF MODULES

TRANSPORTATION RESTRICTIONS WOULD DETERMINE THE OVERALL SIZE RESTRICTIONS OF THE MODULE WHERE THE EXTERNAL WIDTH CAN BE A MAXIMUM OF 3.85M AND THE EXTERNAL HEIGHT WOULD BECOME 3650M. THIS COULD ALSO CREATE A LIMITATION OF THE SPAN OF THE MODULE. HOWEVER, IT IS POSSIBLE TO PRODUCE MODULES IN HIGHER SIZE AND SPAN, THEY WOULD BE CLASSED AS ABNORMAL LOADS.



THE NEED FOR A CONCRETE/ STEEL FRAME TO **CREATE AN OPEN SPACE FOR GROUND FLOOR**

A CONCRETE PODIUM/ STEEL FRAME PODIUM WOULD BE CONSTRUCTED TO CREATE AN OPEN SPACE FOR THE GROUND FLOOR. THIS PODIUM WOULD SUPPORT THE MODULES ABOVE AND HELP KEEP THE MODULES DRY.

PERMINANCE WITHIN SYSTEM

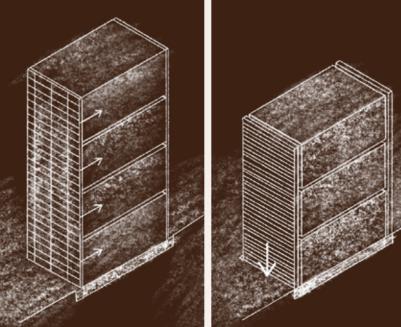
FACADE SYSTEMS FOR MODULES

ANOTHER PERMANENT FACTOR FOR THE NU BUILD SYSTEM WOULD BE THE CURRENTLY PROPOSED FACADE SYSTEMS, THE RAINSCREEN, AND LOAD-BEARING FACADE SYSTEM. WITH THE USE OF THESE SYSTEMS, IT COULD BECOME HARDER TO MOVE AND REARRANGE THE MODULES AS CONCEPTUALISED AS ADJUSTING THE FACADE SYSTEM IN ACCORDANCE WITH DIFFERENT LAYOUTS WOULD BECOME COSTLY OVER TIME. THERE WOULD ALSO BE AN INCREASED RISK OF SAFETY AND ERRORS DUE TO THE FACADE SYSTEMS BEING CONSTRUCTED ON-SITE.

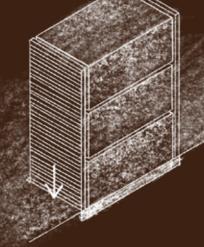
ALIGN BETWEEN STOREYS

FOUNDATIONS FOR MODULES

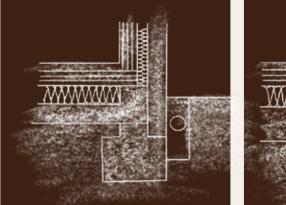
THERE ARE CURRENTLY TWO TYPES OF FOUNDATIONS BEING USED FOR THE NU BUILD SYSTEM, A CONCRETE SLAB AND A VENTILATED CONCRETE SLAB. THESE ARE USED TO KEEP THE MODULES DRY AS A MAJOR WEAKNESS OF CLT PANELS WOULD BE THEIR MOISTURE TOLERANCE. THE USE OF A CONCRETE FOUNDATION WOULD CLASH WITH MY CONCEPT OF BUILDING A TEMPORARY STRUCTURE. SO AN ALTERNATIVE MOBILE THE FOUNDATION SYSTEM IS NEEDED.



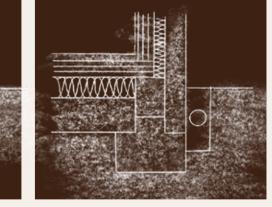
RAINSCREEN SYSTEM



LOAD-BEARING SYSTEM



CONCRETE SLAB



CONCRETE VENTILATED SLAB

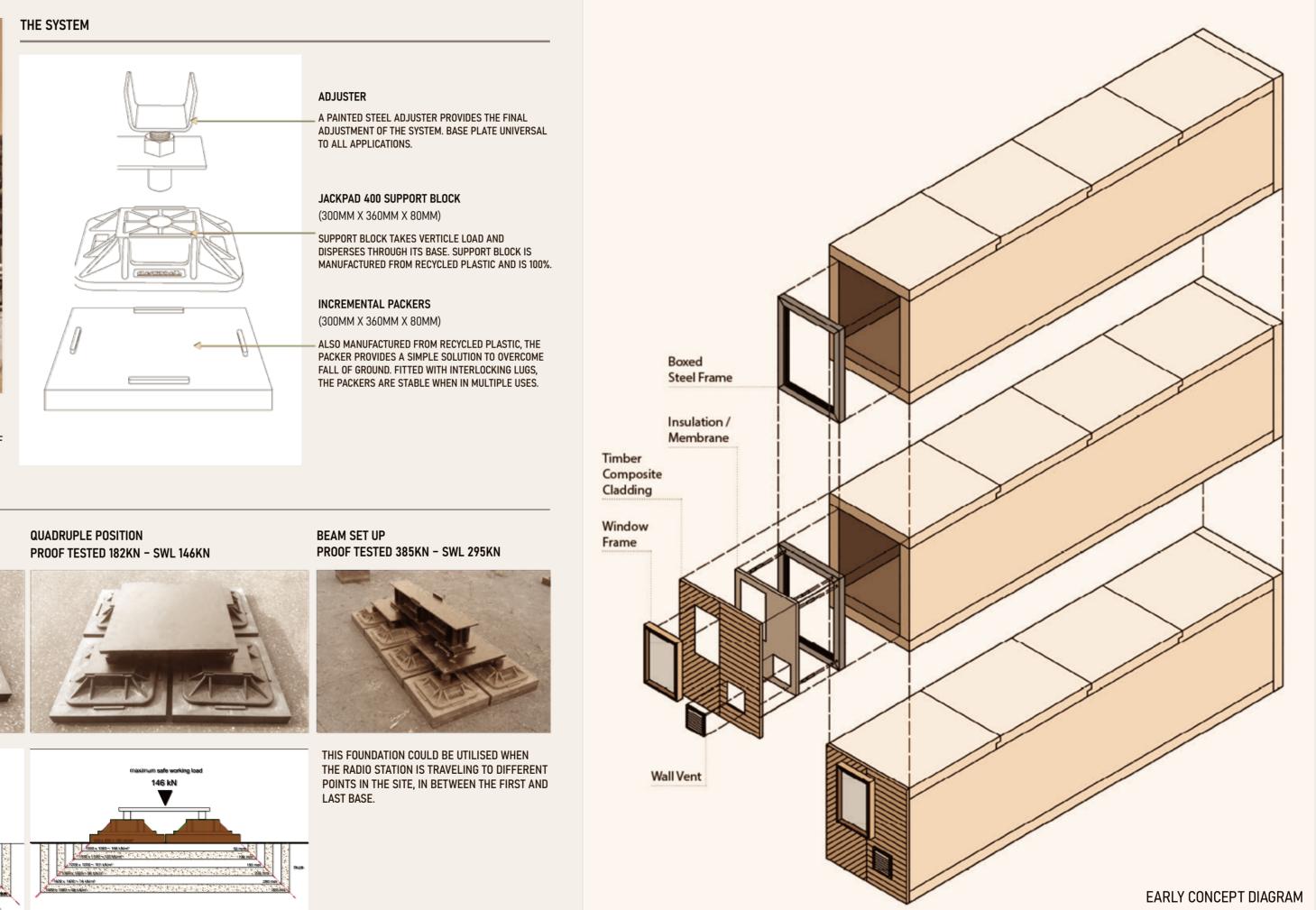
ESTABLISHING ARCHITECTURAL SYSTEMS - ALTERNATIVE SYSTEMS TO WORK WITH NU BUILD SYSTEM

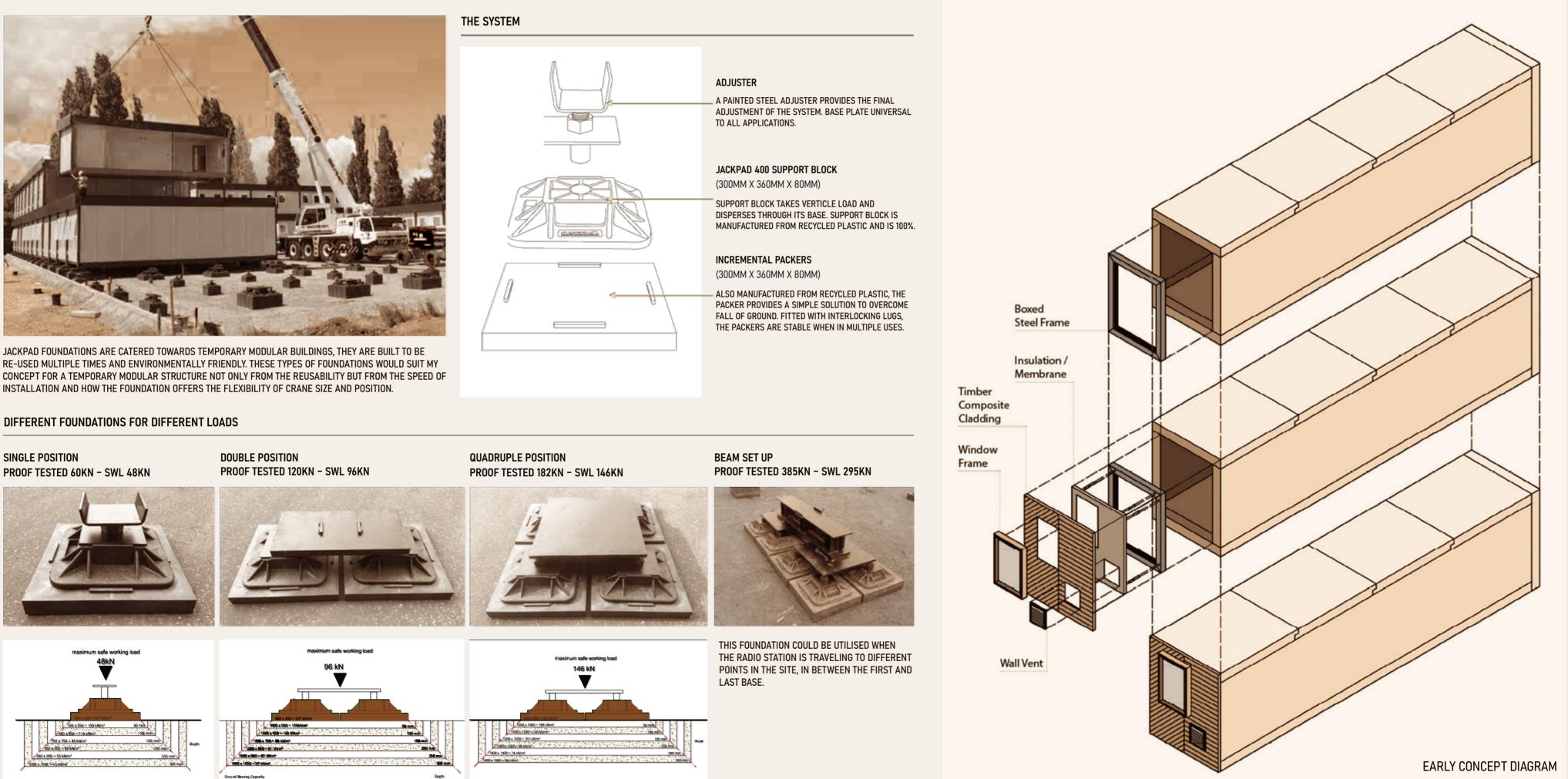
ALTERNATIVE FOUNDATION SYSTEM - JACK PAD FOUNDATION



RE-USED MULTIPLE TIMES AND ENVIRONMENTALLY FRIENDLY. THESE TYPES OF FOUNDATIONS WOULD SUIT MY CONCEPT FOR A TEMPORARY MODULAR STRUCTURE NOT ONLY FROM THE REUSABILITY BUT FROM THE SPEED OF INSTALLATION AND HOW THE FOUNDATION OFFERS THE FLEXIBILITY OF CRANE SIZE AND POSITION.

DIFFERENT FOUNDATIONS FOR DIFFERENT LOADS



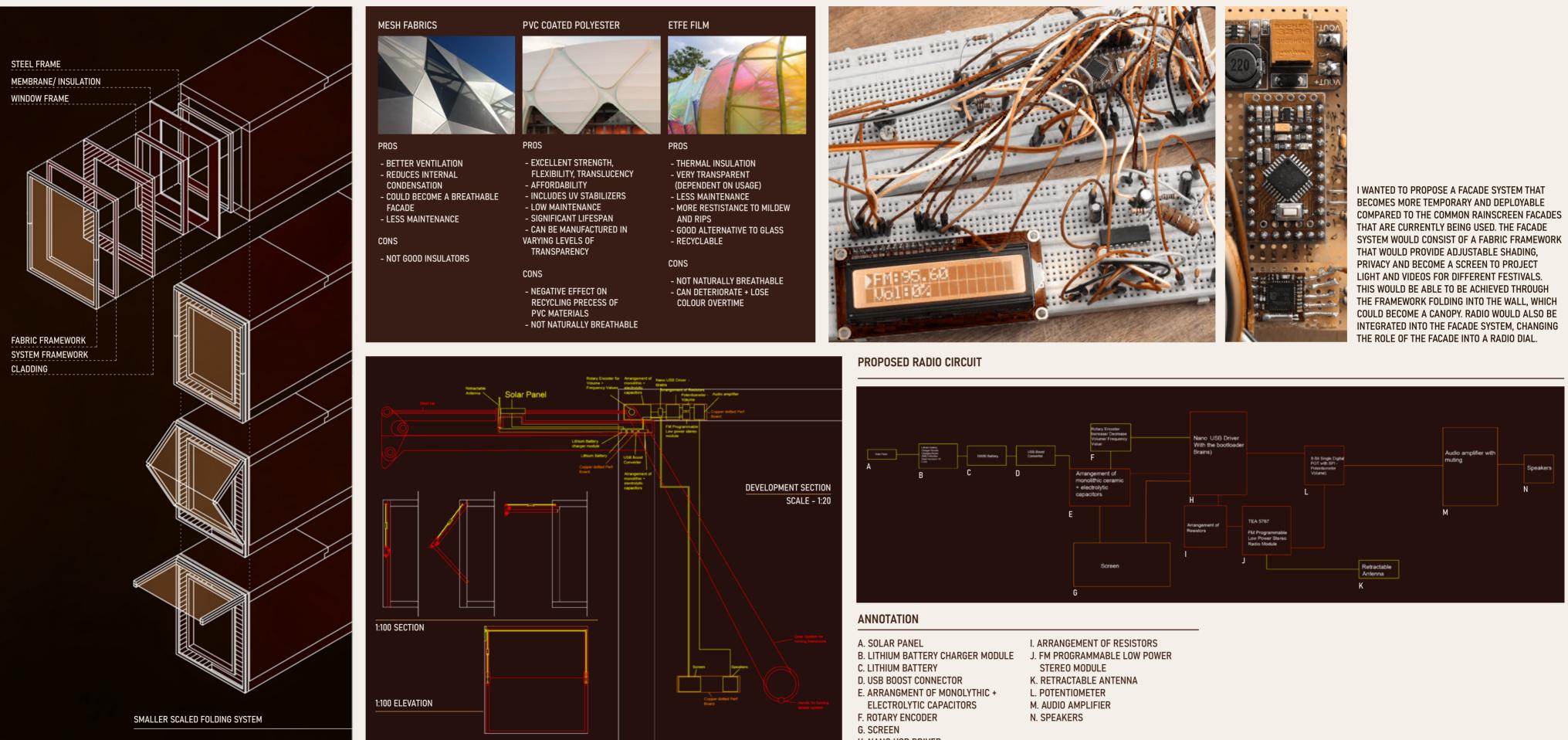


ALTERNATIVE FRAME SYSTEM - NU-FRAME SYSTEM

ESTABLISHING ARCHITECTURAL SYSTEMS - MODULATING FACADE SYSTEM

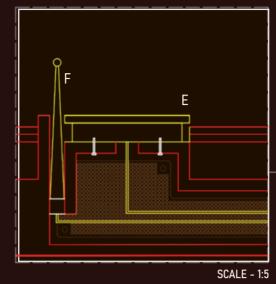
POTENTIAL MATERIALS TO USE FOR MEMBRANE

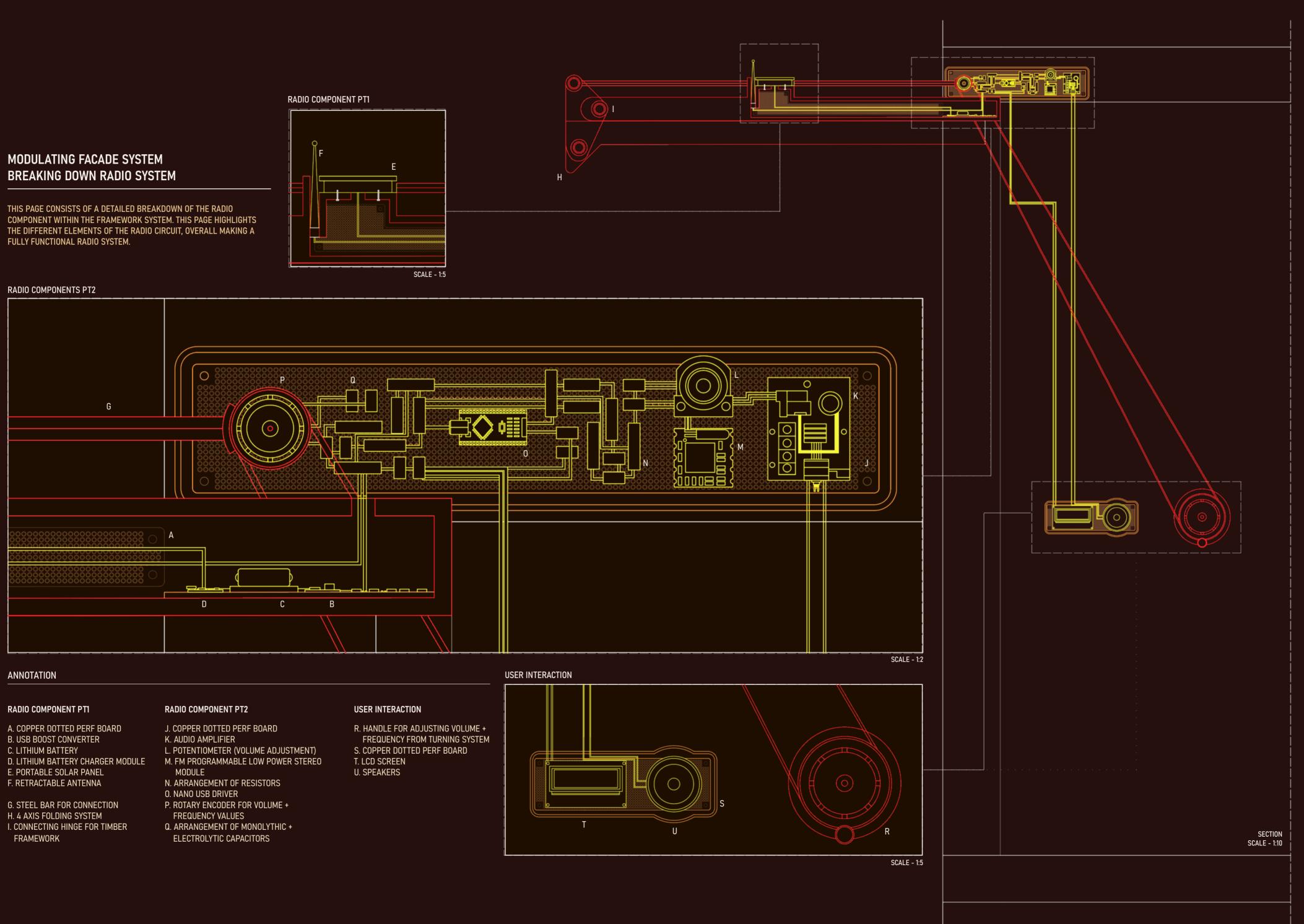
FACADE SYSTEM BREAKDOWN

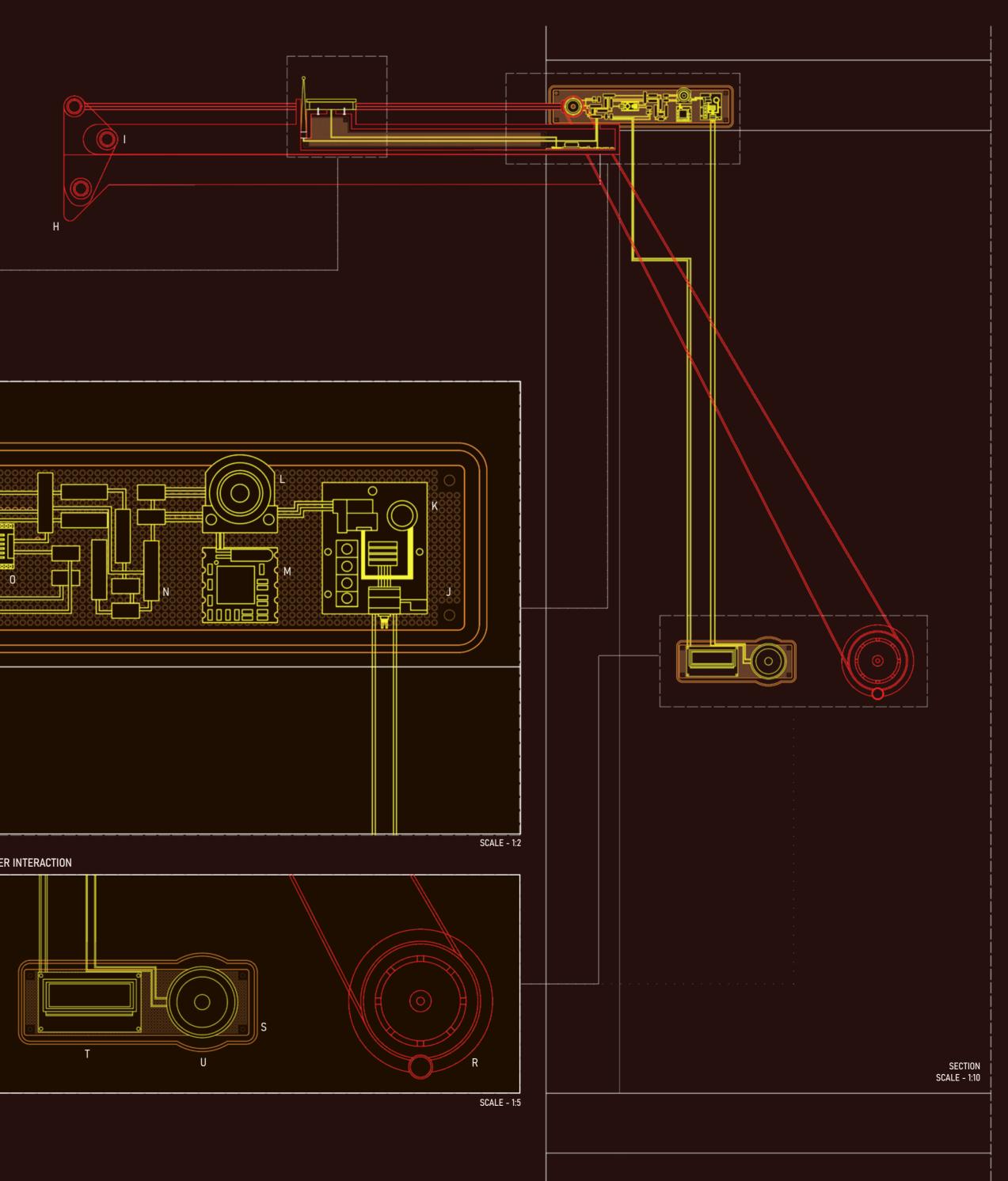


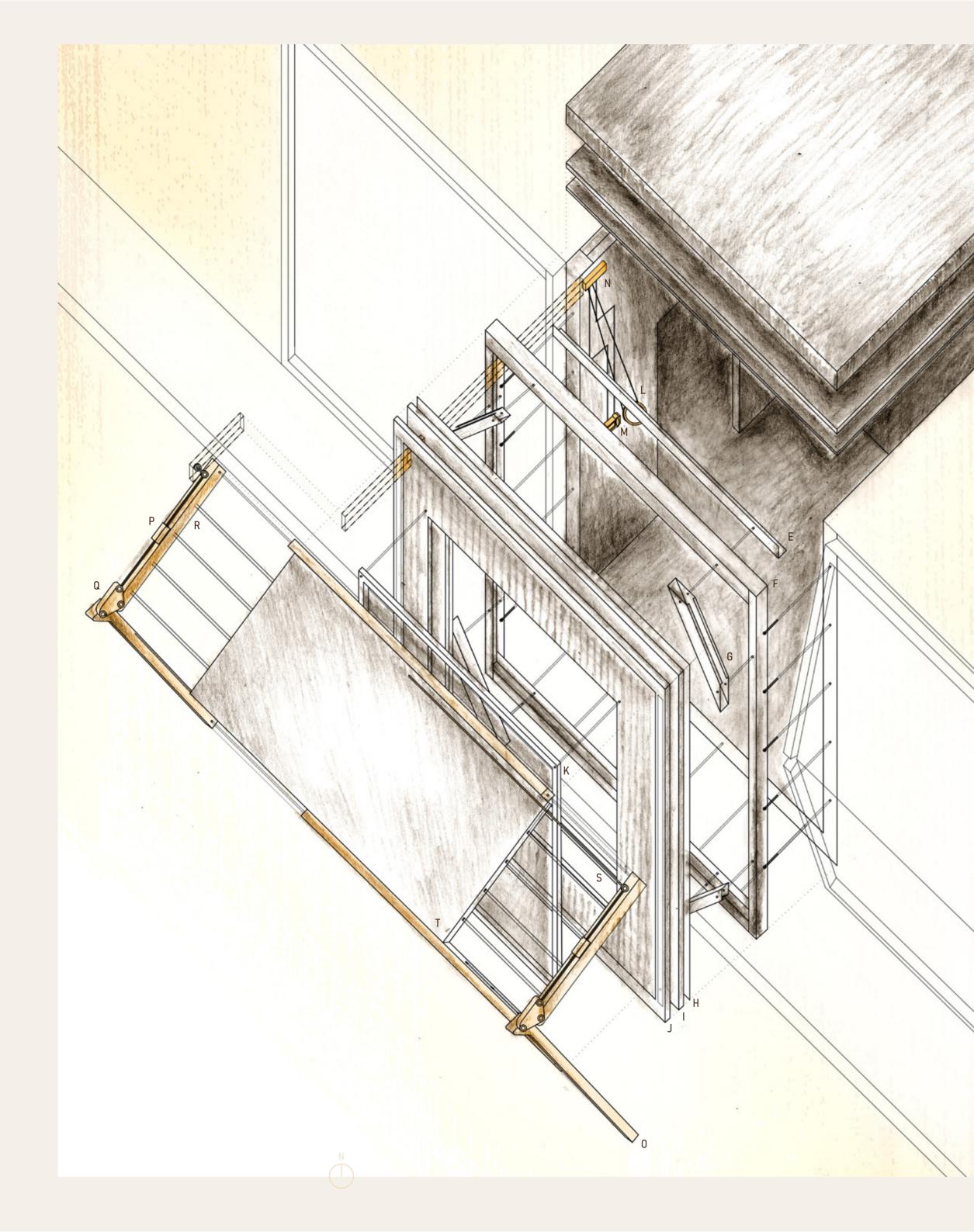


- H. NANO USB DRIVER









MODULATING FACADE SYSTEM BREAKDOWN

AXONOMETRIC

SCALE- 1:30

THIS DIAGRAM IS A BREAKDOWN OF A MODULE WALL, HIGHLIGHTING EACH ELEMENT INVOLVED. THESE INCLUDE THE NU-FRAME SYSTEM, WALL BREAKDOWN, AND THE RADIO COMPONENT TO THE FACADE SYSTEM.

ANNOTATION

ROOF BREAKDOWN

- A. CLT PANEL
- **B. VAPOUR BARRIER**
- C. RIGID INSULATION
- D. INTERIOR CLT PANEL

NU-FRAME SYSTEM

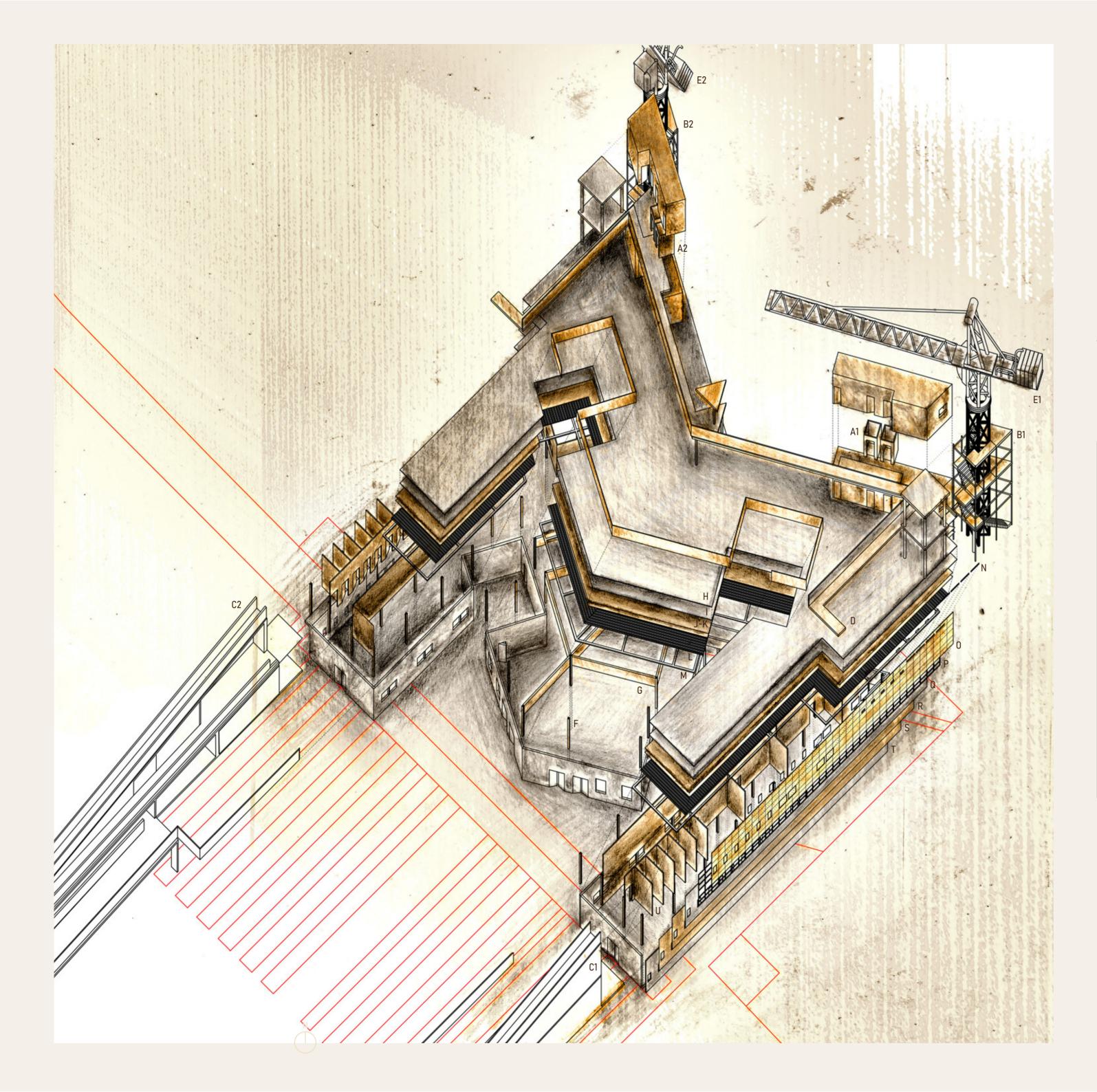
- E. SUPPORTING STEEL FRAME FOR LIFTING MODULE
- F. ASSEMBLED PREFABRICATED STEEL FRAME
- G. SUPPORTING PREFABRICATED STEEL HAUNCHES CONNECTED WITH SCREWS AND NAIL PLATES

WALL BREAKDOWN

- H. WATERPROOF MEMBRANE
- I. RIGID INSULATION
- J. TIMBER CLADDING WITH SLIDING
- INSERTS
- K. PVCU WINDOWS

RADIO COMPONENT

- L. HANDLE FOR ADJUSTING VOLUME + FREQUENCY
- M. SCREEN + SPEAKERS
- N. CUSTOM RADIO SYSTEM
- 0. TIMBER FRAMEWORK CONNECTED
- WITH SCREWS
- P. PORTABLE SOLAR PANEL + ANTENNA
- Q. FOUR BAR + PARALLELOGRAM FOLDING MECHANISM
- R. INTEGRATED RADIO SYSTEM
- S. DIAL EXTENSION TO CONNECT MOVEMENT OF OPPOSING FOLDING MECHANISM
- T. FABRIC CONNECTED TO FRAME WORK THROUGH STAPLE APPLICATION



LAYERS + COMPONENTS

AXONOMETRIC

SCALE- 1:300

THE FOLLOWING DIAGRAM BREAKS DOWN THE TECHNOLOGICAL ELEMENTS OF THE PROPOSAL INTO DIFFERENT LAYERS. THESE LAYERS INCLUDE VERTICAL CIRCULATION, STRUCTURE, FLOOR, LOAD BEARING WALLS AND NON BEARING WALLS.

ANNOTATION

VERTICAL CIRCUALTION

- A. LIFTS B. STAIRS C. RAMP STRUCTURE D. WALKWAYS
- E. CRANES

STRUCTURE

F. STEEL COLUMNS G. STEEL TRUSS

FLOOR

H. PRE-CAST CONCRETE I. RIGID INSULATION J. VAPOUR BARRIER K. ACOUSTIC MAT L. STEEL DECK M. STEEL FRAME

LOAD BEARING WALLS

- N. WINDOWS
- 0. WEARTHERED STEEL PANELS
- P. SUPPORTING SUB-STRUCTURE
- Q. INSULATION
- R. VAPOUR BARRIER
- S. ACOUSTIC MEMBRANE
- T. PRE-CAST CONCRETE SLABS

NON BEARING WALLS

U. PRECAST CONCRETE PANELS



SCENES OF MANSTON MODULATION

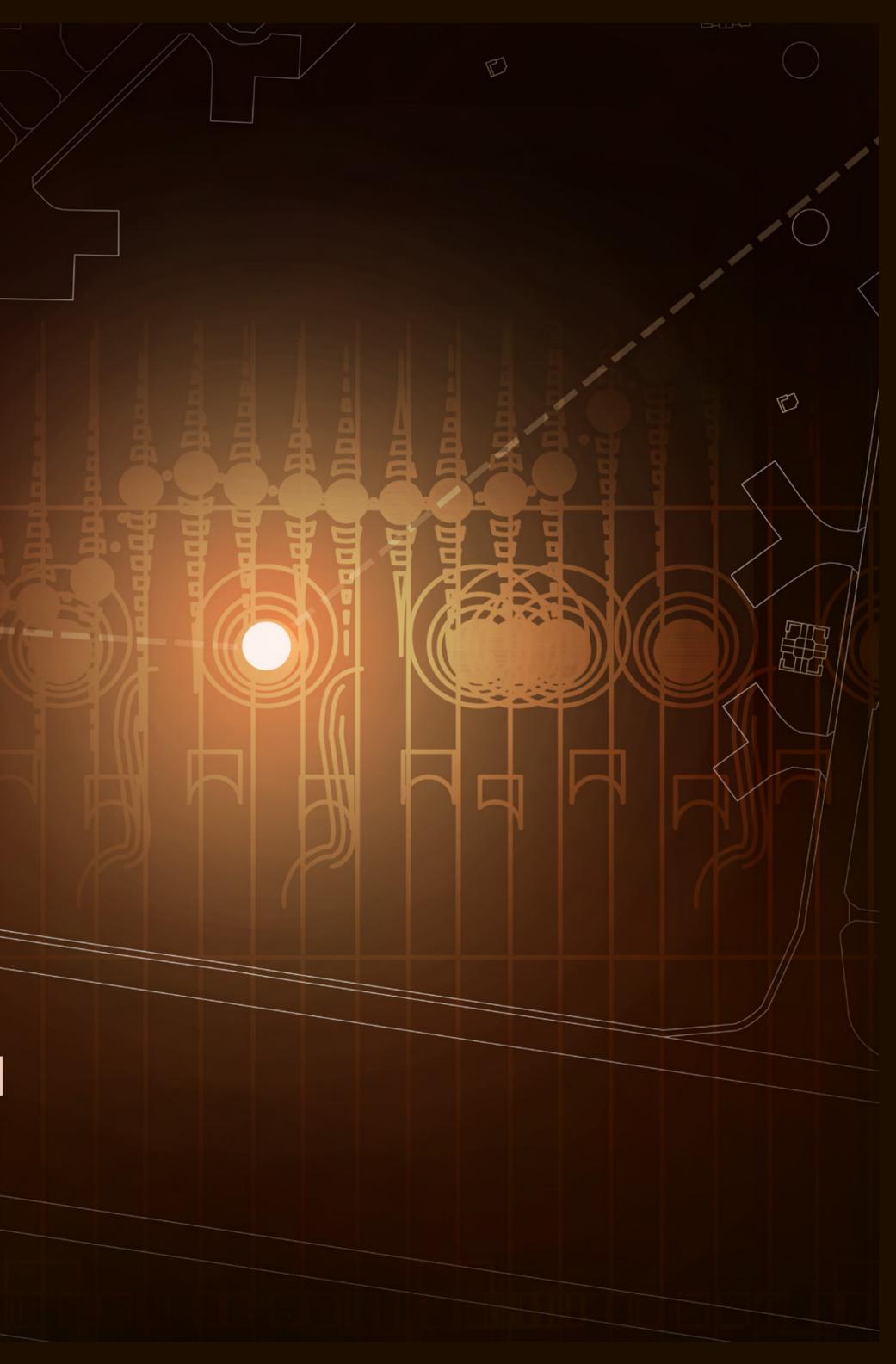
1

Helipad

17

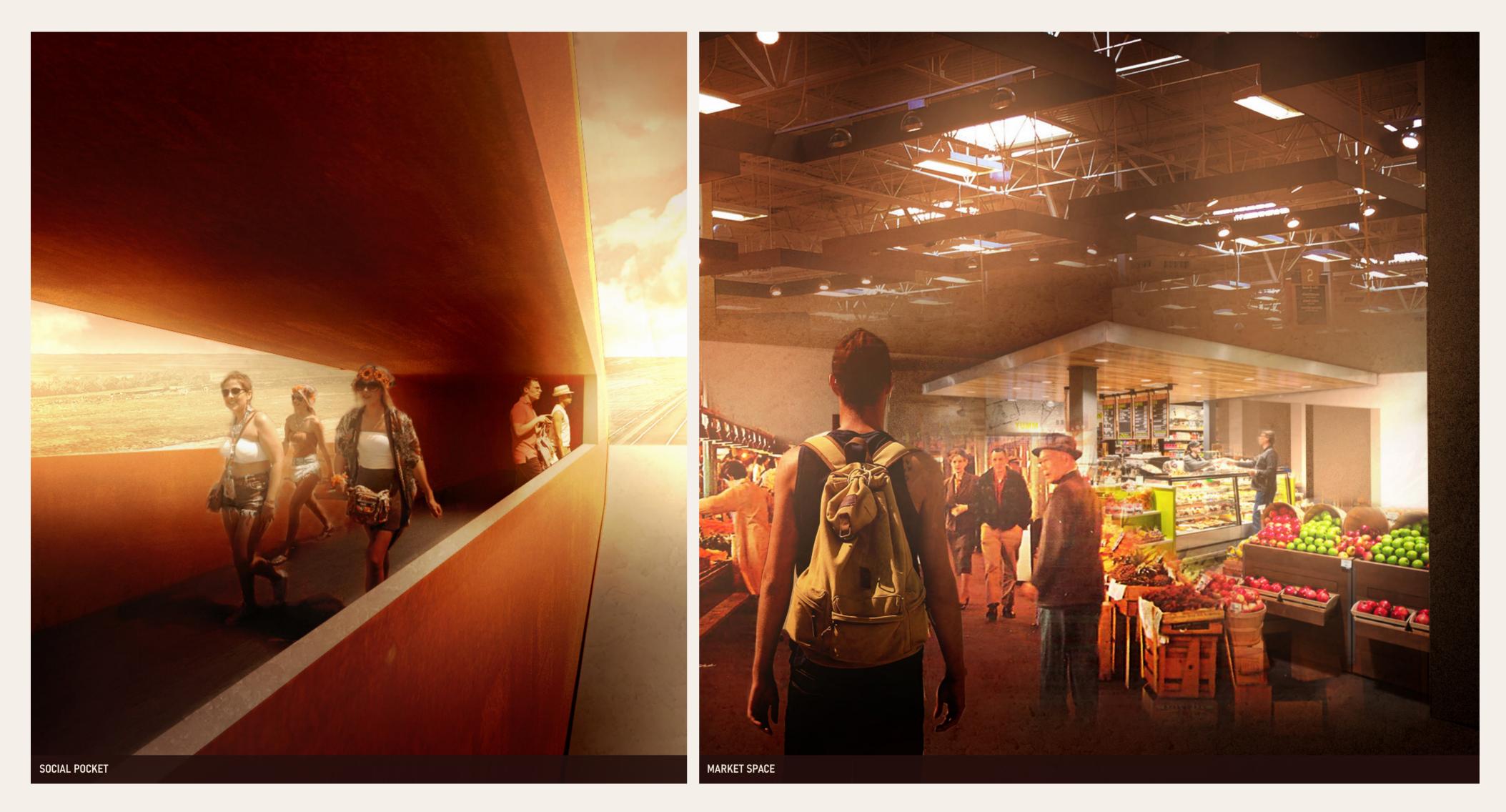
75

A COMPILATION OF PERSPECTIVES THAT SHOWCASES THE PROGRAMS FOR THE COMMUNITY BASE AND THE PROPOSED MODULES.









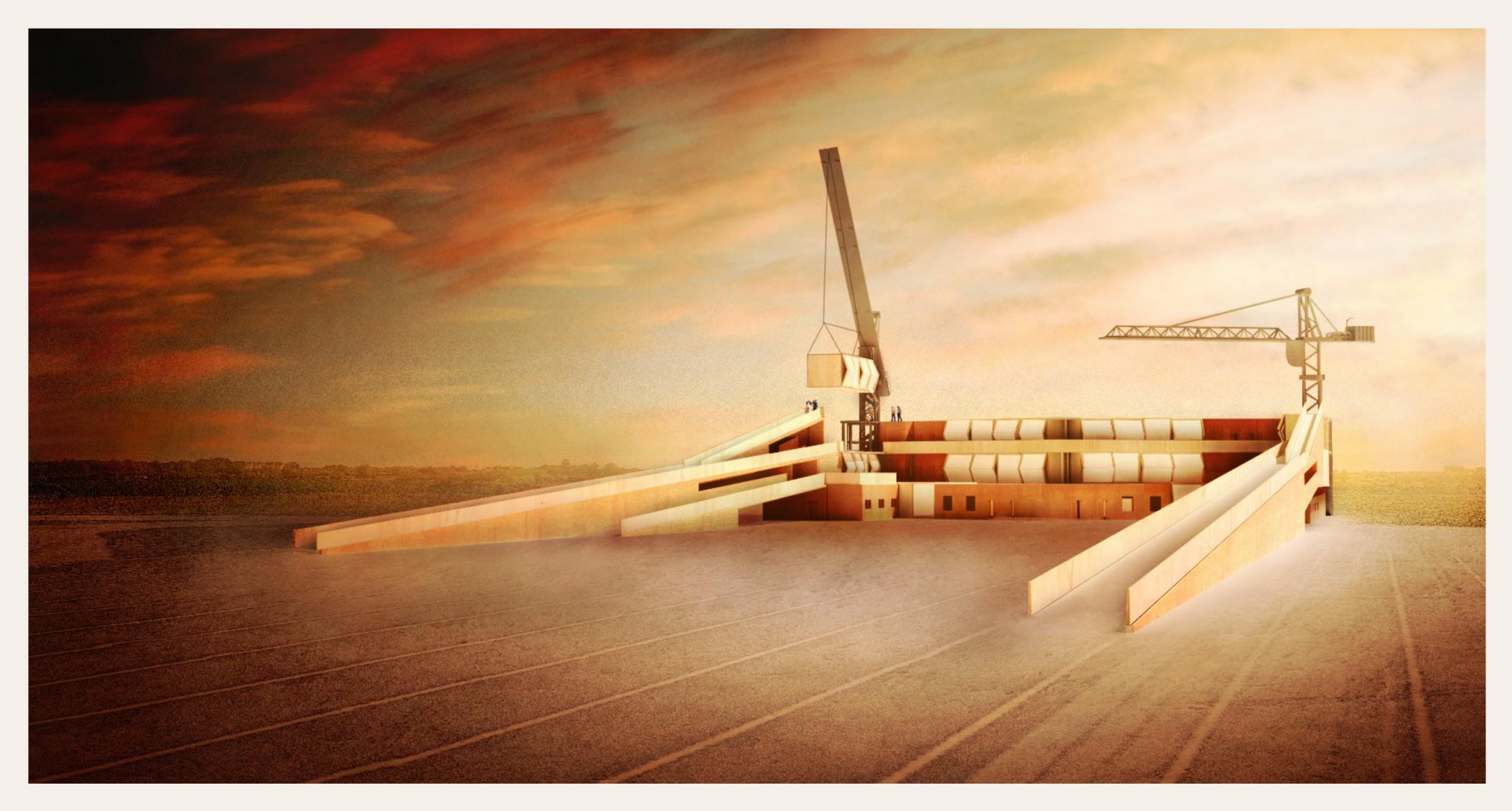


MODULE PERSPECTIVES



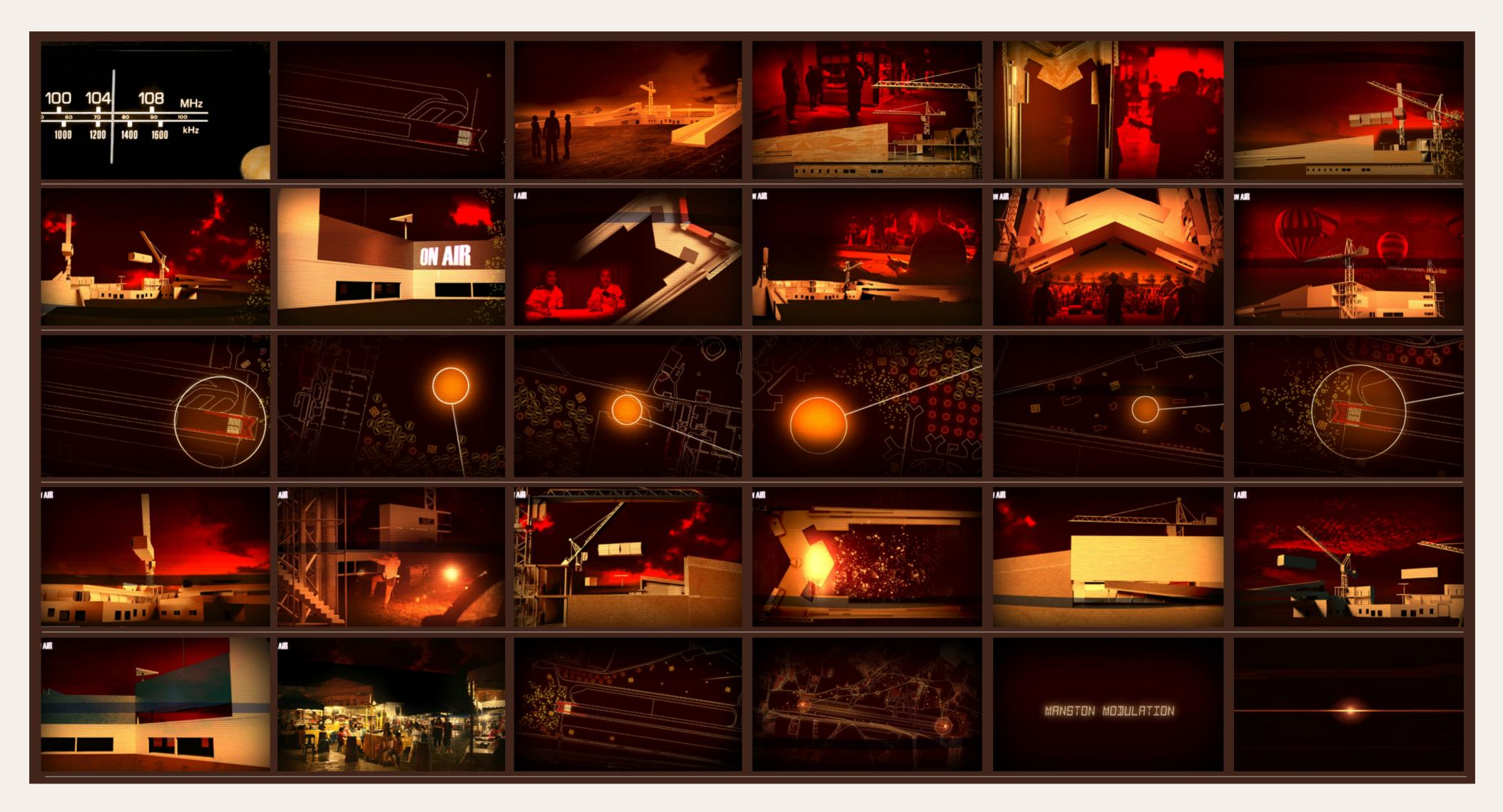
MODULE PERSPECTIVES











THIS PAGE COMPILES MANY STILLS FROM THE FILM CREATED FOR THE PROPOSAL. THE FILM FOCUSES ON SHOWCASING THE JOURNEY OF THE RADIO STATION FROM THE FIRST BASE TO THE SECOND BASE, FORMING THE OVERALL MASTER PLAN STRATEGY.







MANSTON MODULATION

A PROPOSAL FOR THANET'S FIRST DEPLOYABLE COMMUNITY RADIO STATION THAT HELPS REDEVELOP MANSTON AIRPORT INTO A RESIDENTIAL LANDSCAPE.

