

HARMONY DIVIDE ISOLATE

THE BUSHFIRE MEMORIAL MUSEUM CONCEPT CENTRES ON THE EMOTIONAL JOURNEY OF THE 2019 BUSHFIRES. IT EXPLORES THREE TIME PERIODS: BEFORE, DURING, AND AFTER THE FIRES. FOCUSING ON THE EMOTIONS OF DISPLACEMENT AND ISOLATION. THE EXPERIENCE IS GUIDED BY THE EMOTIONS OF TWO NARRATIVES, THE HUMAN AND WILDLIFE PERSPECTIVE. WHICH CONTRAST AND CONNECT THROUGHOUT THEIR JOURNEY THROUGH THIS PERIOD. THE SPACES ARE DESIGNED TO PROVOKE DIFFERENT EMOTIONS WITHIN THE VISITOR, AS THEY ARE GUIDED THROUGH A CONTINUOUS PATH.



BUSHFIRE NARRATIVE



EXTERIOR RENDER- ENTRANCE TO MUSEUM

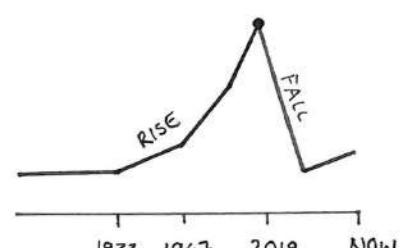
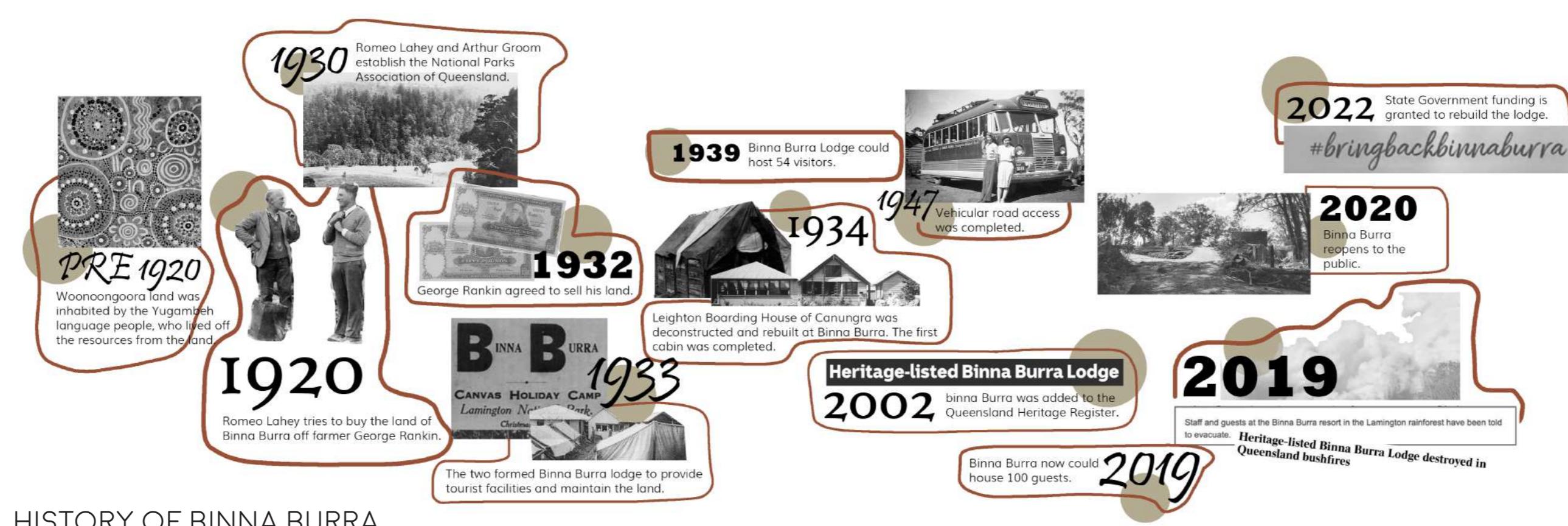


EVENTS FROM A WILDLIFE PERSPECTIVE



EVENTS FROM A HUMAN PERSPECTIVE

TWO NARRATIVES

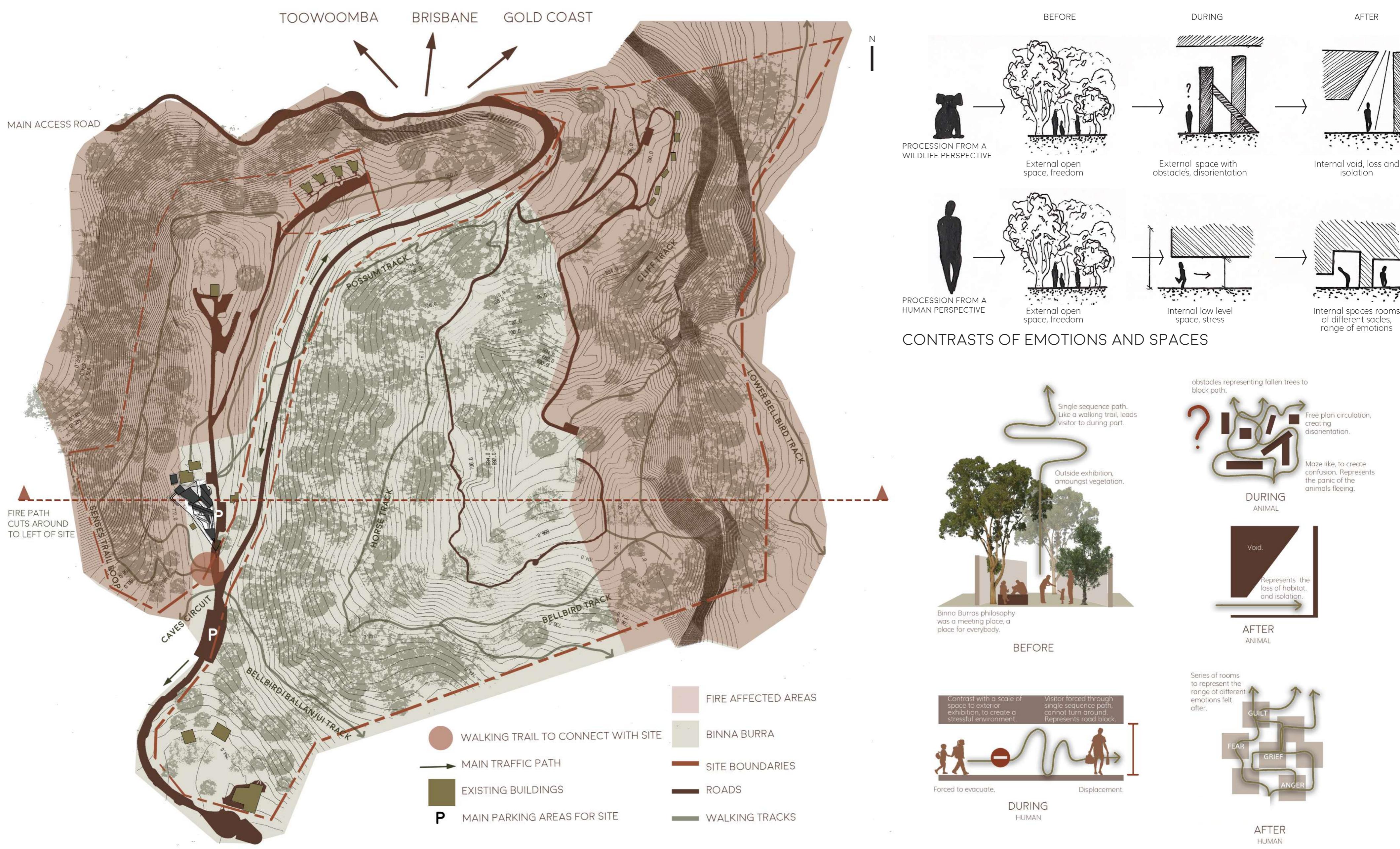


RISE OF BINNA BURRA TO A PEAK AND THEN THE FALL



BINNA BURRA ESTABLISHED AS A MEETING PLACE TO PROVIDE FACILITIES

HISTORY OF BINNA BURRA



LOCATION PLAN

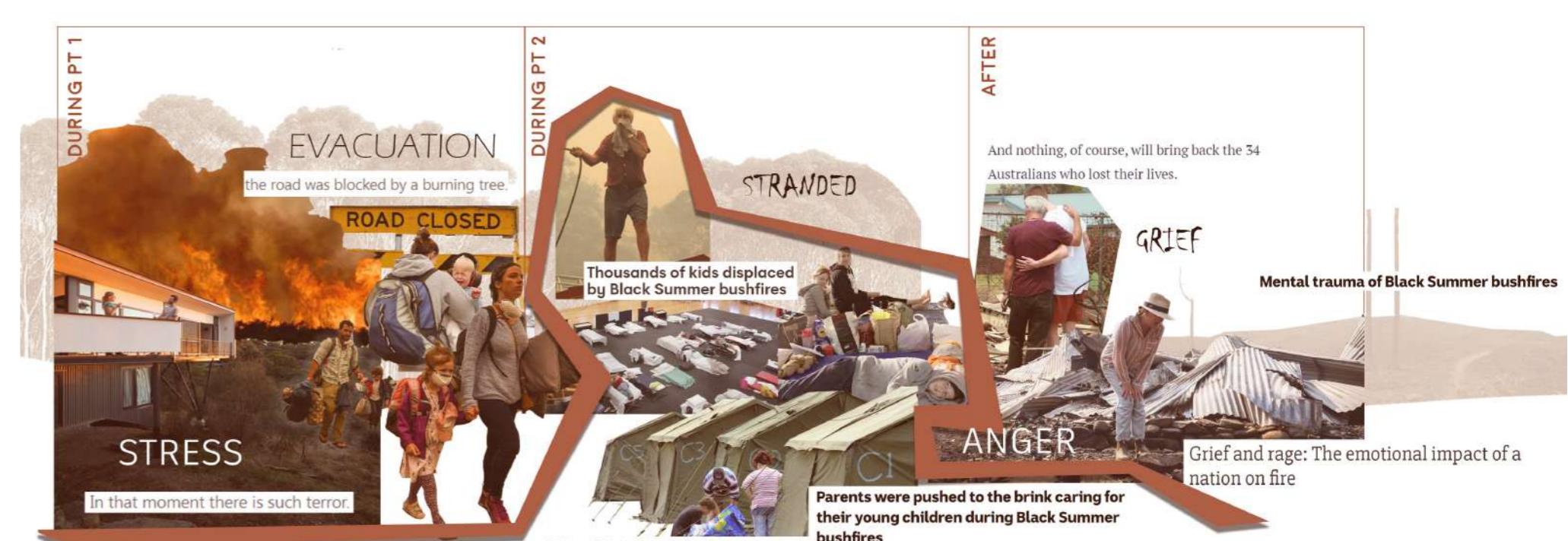
SCALE 1:2500

0 25 50 100m

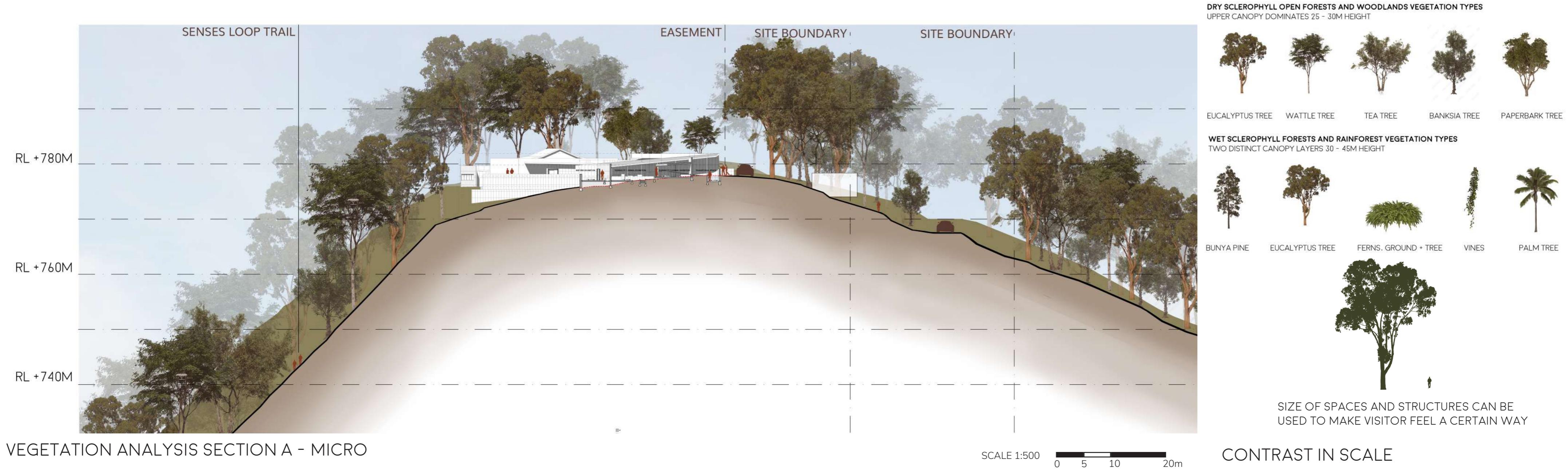
CONCEPT



ANIMAL EXPERIENCE AND EMOTIONS OF BUSHFIRE EVENTS



HUMAN EXPERIENCE AND EMOTIONS OF BUSHFIRE EVENTS

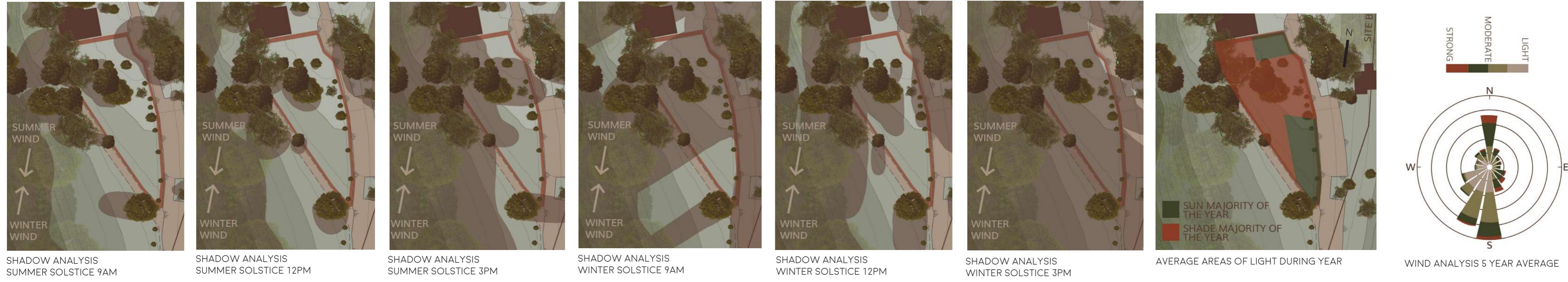


VEGETATION ANALYSIS SECTION A - MICRO

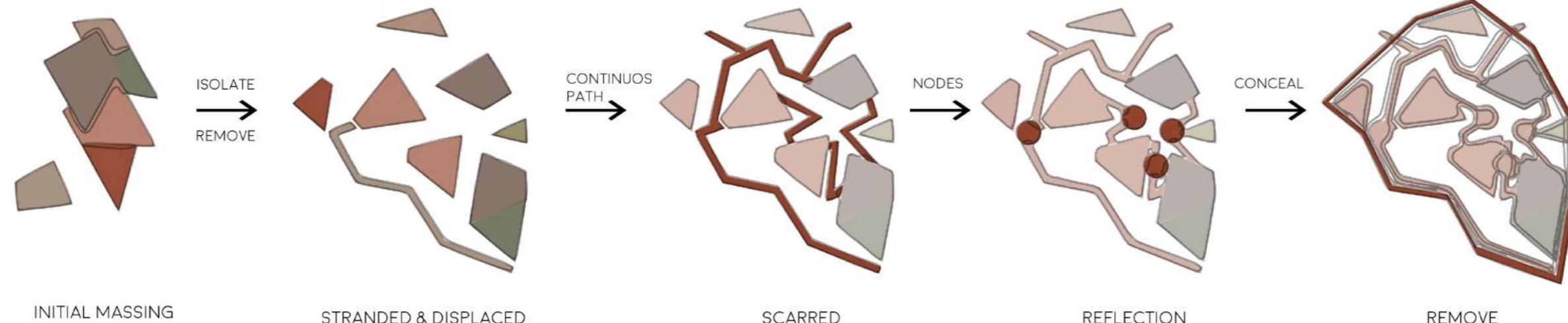
SCALE 1:500 0 5 10 20m

CONTRAST IN SCALE

SIZE OF SPACES AND STRUCTURES CAN BE
USED TO MAKE VISITOR FEEL A CERTAIN WAY



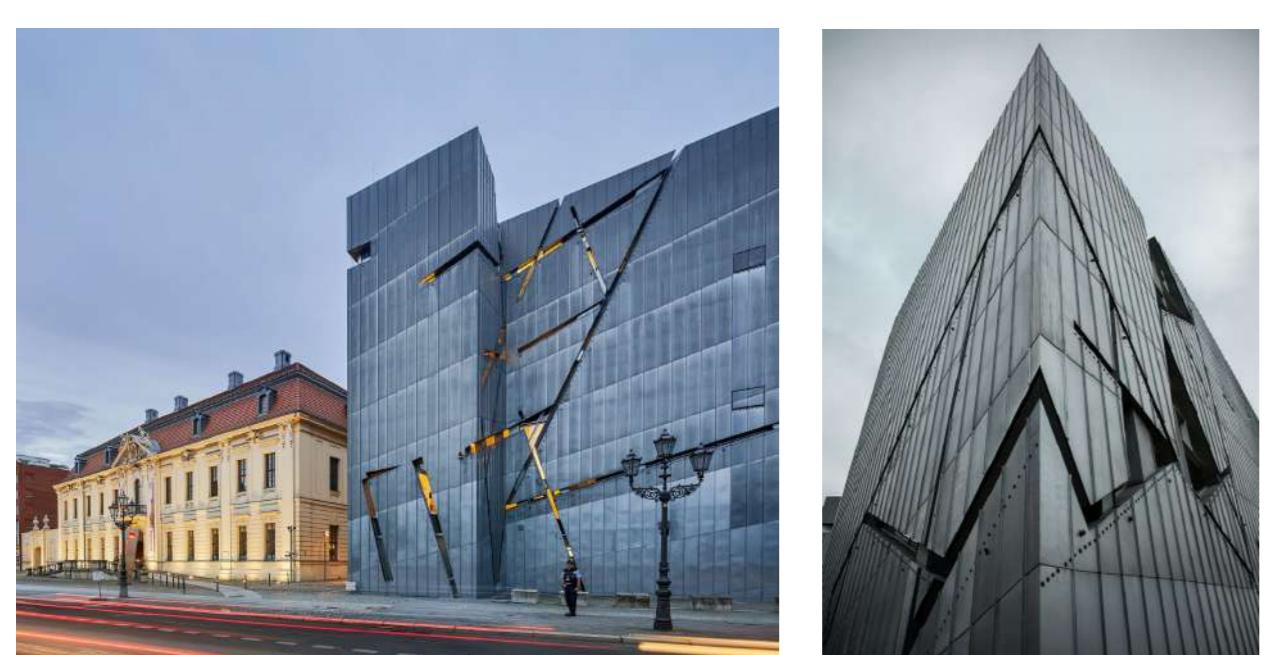
CLIMATIC ANALYSIS



DEVELOPMENT OF MASSING

THE JEWISH MUSEUM-BERLIN, GERMANY

DANIEL LIBESKIND 2001



IMAGES SOURCE: <http://www.flickr.com/photos/8112724@N00/>

IMAGES SOURCE : <https://www.archdaily.com/91273/ad-cl>
PLOT AREA SIZE : 27.000M²
PROJECT AREA: 3.500M²

PROJECT AREA:

The concept is driven by three narratives of hidden Jewish identities, which create three symbolic paths. These paths are the Holocaust, Exile and Continuity. The Holocaust is a 24m tall open void with a single light opening at the top, to make the users feel an emotional connection to those who went through the Holocaust. The Exile is a garden constructed of 49 pillars, which are placed with the intent of making the users feel disorientated, like the feeling of being uprooted during the war. The garden has a single entrance and you exit from the same place, making the user feel confined. Continuity is a disjointed space which presents facts and reactions to the events of the war, creating an emotional connection for viewers.

LOGIC BEHIND THE STRUCTURE:

The main structure is constructed of reinforced concrete panels and slabs to create the walls and floor structure. The external facade of the building is clad in titanium cladding.

PRECEDENT ONE - STRUCTURAL AND DESIGN

JIANGSU GARDEN EXPO TREASURF PAVILION-JIANGSU, CHINA

A71 ARCHITECTS

2021



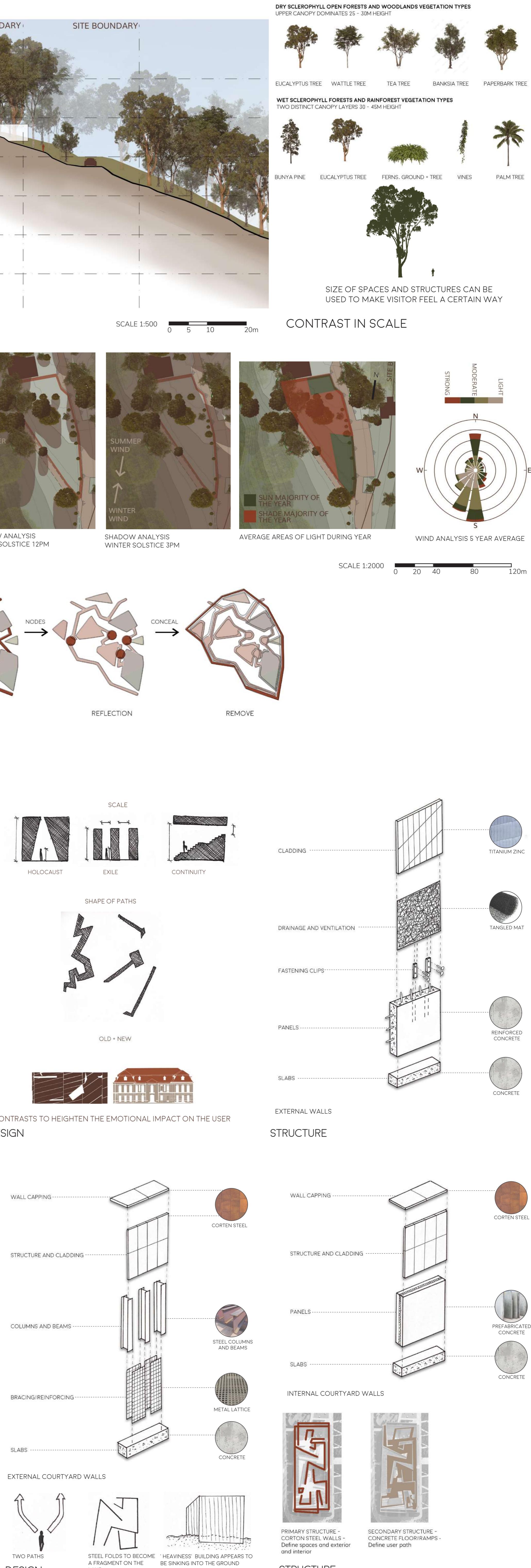
IMAGES SOURCE: JAMES KELLY FOR THE WALL STREET JOURNAL (2021) (THE WALL STREET JOURNAL) (2021)

PLOT AREA SIZE : 15.500M2
PROJECT AREA : 15.000M2

The concept was developed from the geological concept of folding, where the movement of layers of the earth form edges. With the site strong connection to geology this concept was formed. The corten steel structure folds to break up the spaces and create two paths, the folding of these walls create a fragmented shape atop the land. A strategy of heaviness is present within the structure as the building blends into the land by appearing to be sinking. Majority of the structure has no roof allowing for the upper level to be a viewing platform, the few openings along the walls add to this experience. The architect has used different heights within the corners to break up the otherwise dominating

Facade.

The main structure is constructed of corten steel walls, with steel columns and beams and metal lattice for reinforcement. These walls sit atop a concrete slab. The internal walls are constructed of pre fabricated concrete panels, clad in corten steel. The main structural walls



PROPOSED SITE FOR BUSHFIRE MEMORIAL MUSEUM

FDI - FIRE INDEX RATING	40
VEGETATION CALSSIFICATION	A FOREST
DISTANCE OF BUILDING SITE FROM VEGETATION	10M
SLOPE OF VEGETATION	DOWNSLOPE
BAL	BAL - FZ

BAL - FZ
FIRE ZONE. EXTREME RISK OF EMBER ATTACK, BURNING DEBRIS, AND DIRECT EXPOSURE TO FLAME.

BAL SITE PLAN ANALYSIS

RAINWATER COLLECTION TANKS



SEPTIC AND TREATMENT TANKS

BUDINGS REQUIRING POTABLE WATER + RAINWATER

LANDSCAPE REQUIRING IRRIGATION FROM TREATED BLACKWATER

WATER LINE + CONNECTIONS

SEWAGE LINE + CONNECTIONS

BUILDING

ABOVE GROUND IRRIGATION

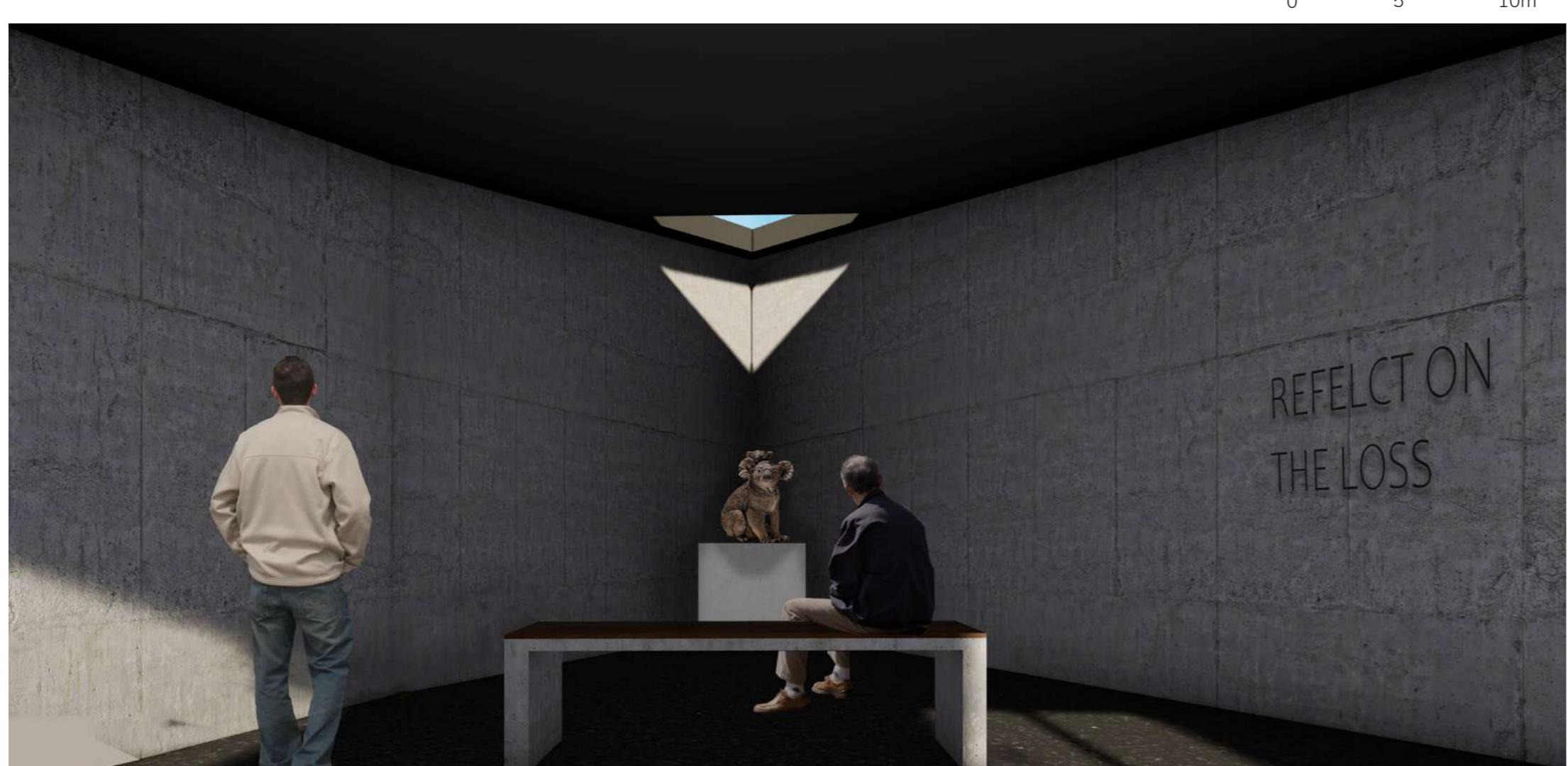
BLACKWATER

CLARIFIER AERATION DISINFECTION

SEPTIC TANK TREATMENT TANK

PASSIVE DESIGN STRATEGY - WASTEWATER BLACK WATER TREATMENT

DIAGRAM OF SERVICES AND INFRASTRUCTURE



INTERIOR RENDER - 'AFTER' ANIMAL EXHIBITION

SCALE 1:250 0 5 10m

BAL - FZ
BAL - 40
BAL - 29
BAL - 19
VEGETATION EDGE
— PROPOSED SITE



EXISTING PROPOSED



SIMILAR - MATERIALS

CONTRAST - APPLICATION FOR BUSHFIRE COMPLIANCE

PROPOSED MATERIALS AND STUTURE - BUSHFIRE COMPLIANCE, NON COMBUSTIBLE

RAINWATER TANK CALCULATIONS

ROOF AREA: 585M²
ANNUAL RAINFALL AVERAGE (BINNA BURRA 2010-PRESENT) = 2491MM
=
MIN TANK SIZE = 486.000L

SELECTED TANK

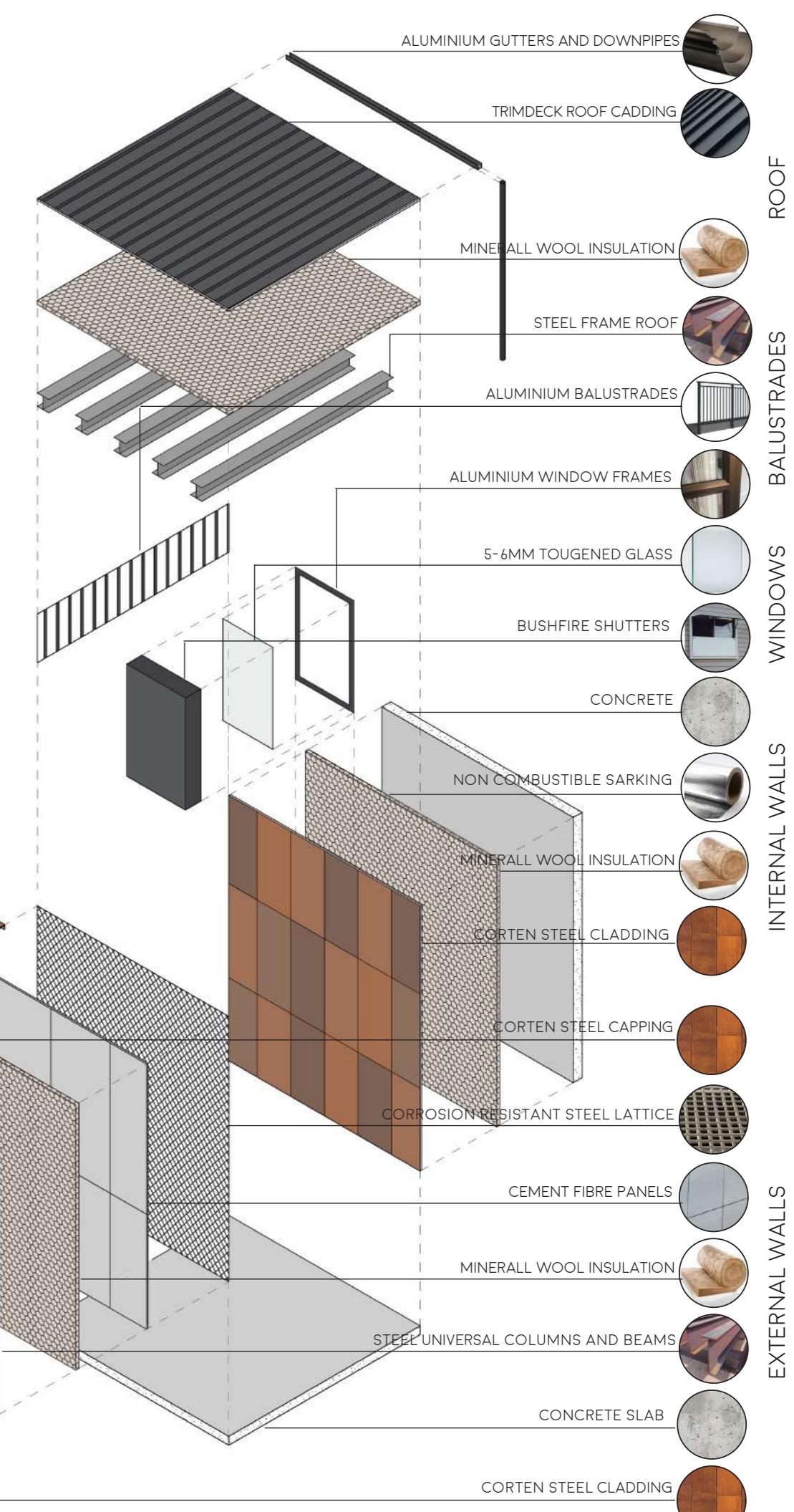
4 X BUSHMANS 125.000L AQUALINE STEEL LINER TANK
- COMPLIES WITH AS 4020 POTABLE WATER
- DIAMETER- 8.62M, WIDTH- 2.60M

SEPTIC TANK CALCULATIONS

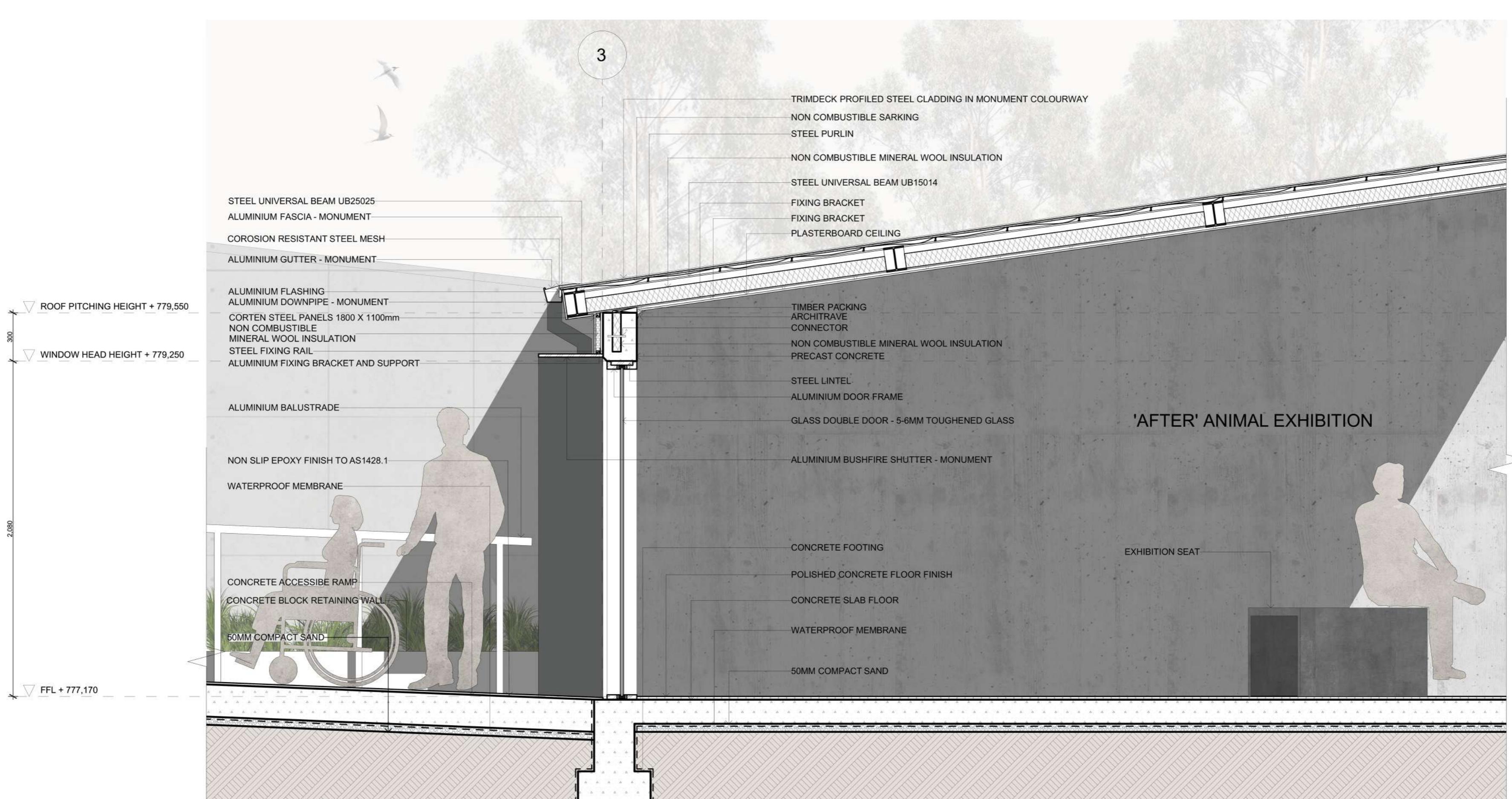
4.500L TANK IS REQUIRED FOR 6-10 TOILETS
MIN TANK SIZE = 4.500L

SELECTED TANK

EVERYTHING HOPE SEPTIC TANK 4.500L
- COMPLIES WITH AS 1546.1 SEPTIC TANKS
- HEIGHT- 1.70M. LENGTH- 3.52M. WIDTH- 1.64M



AXONOMETRIC PROPOSED MATERIALS - BUSHFIRE COMPLIANCE, NON COMBUSTIBLE

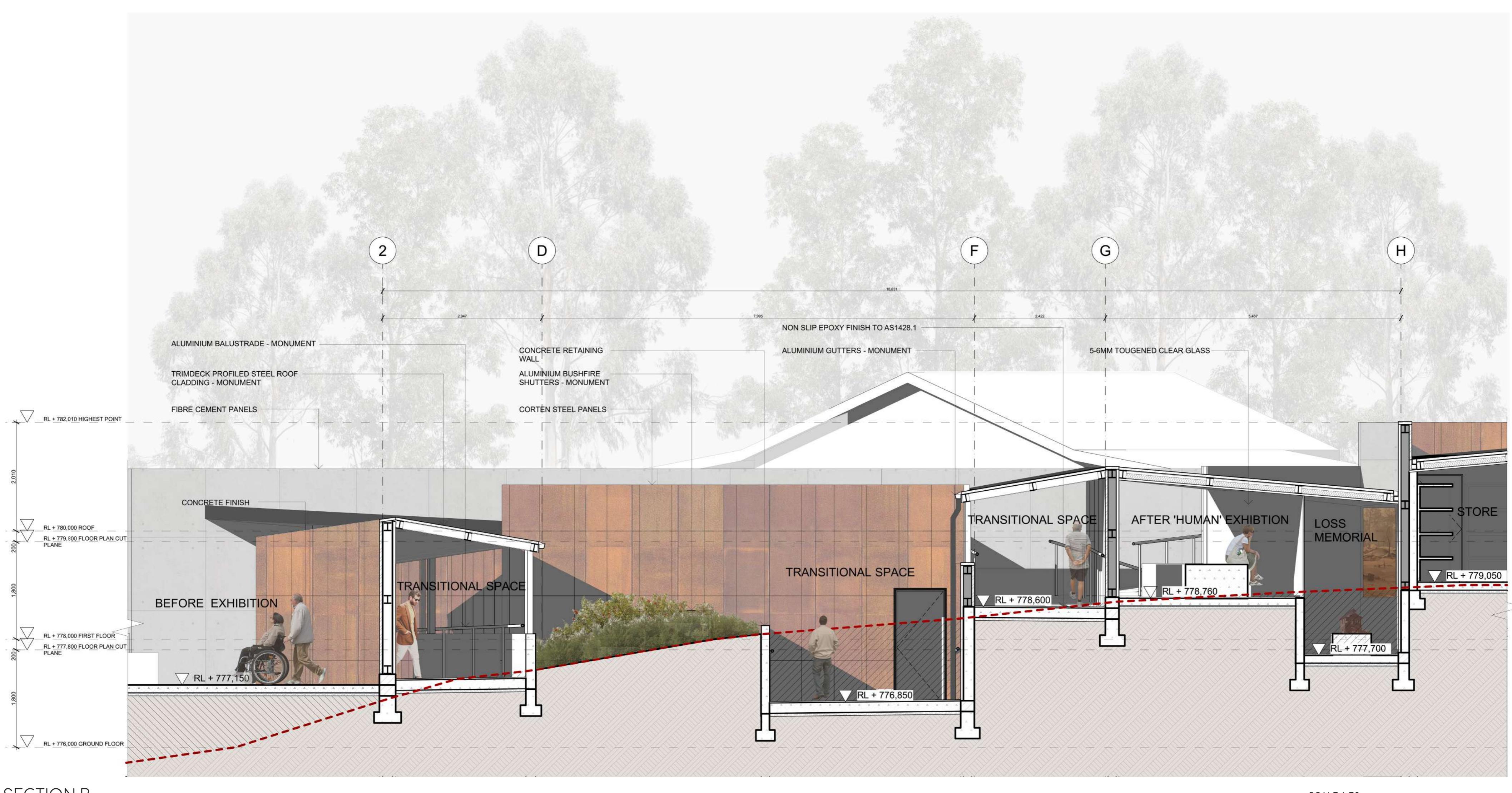


SECTION C

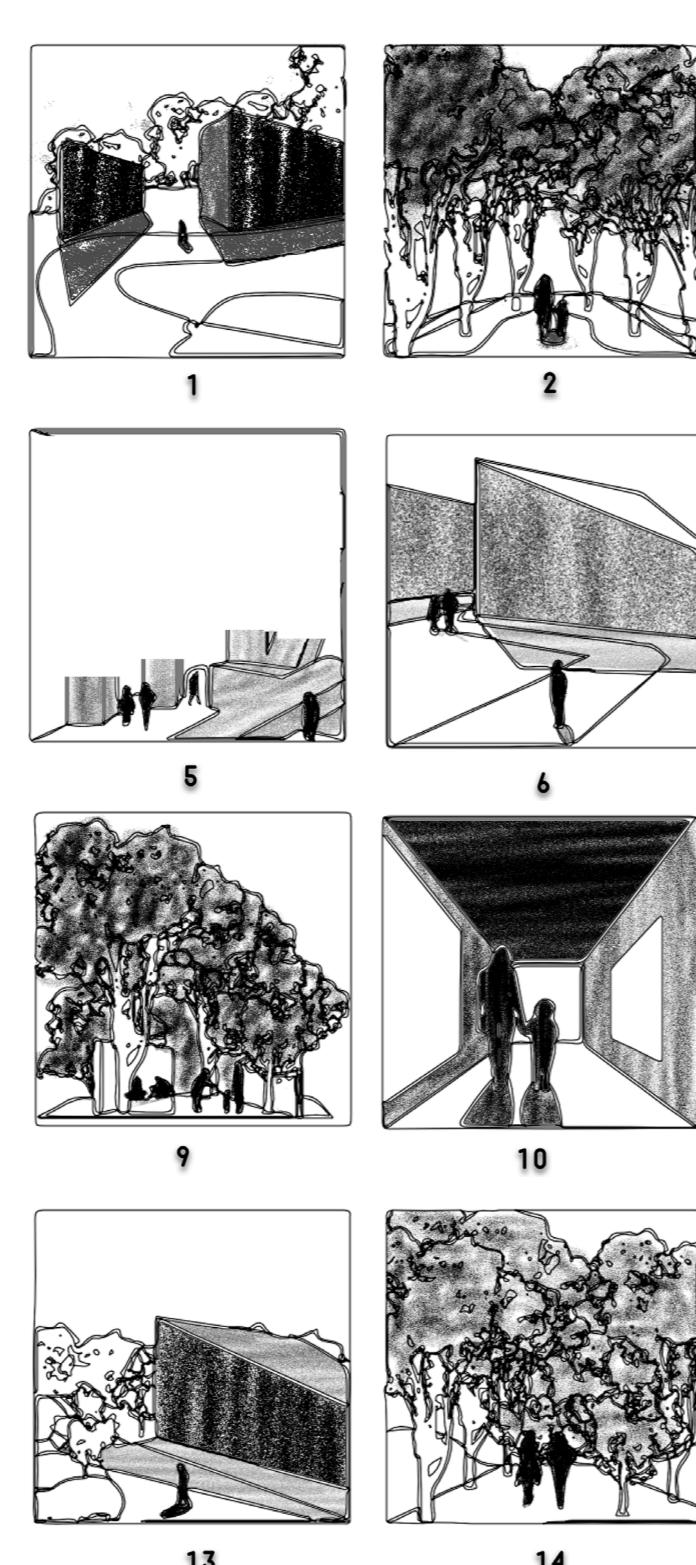
SCALE 1:20 0 200 400 800mm



SECTION A

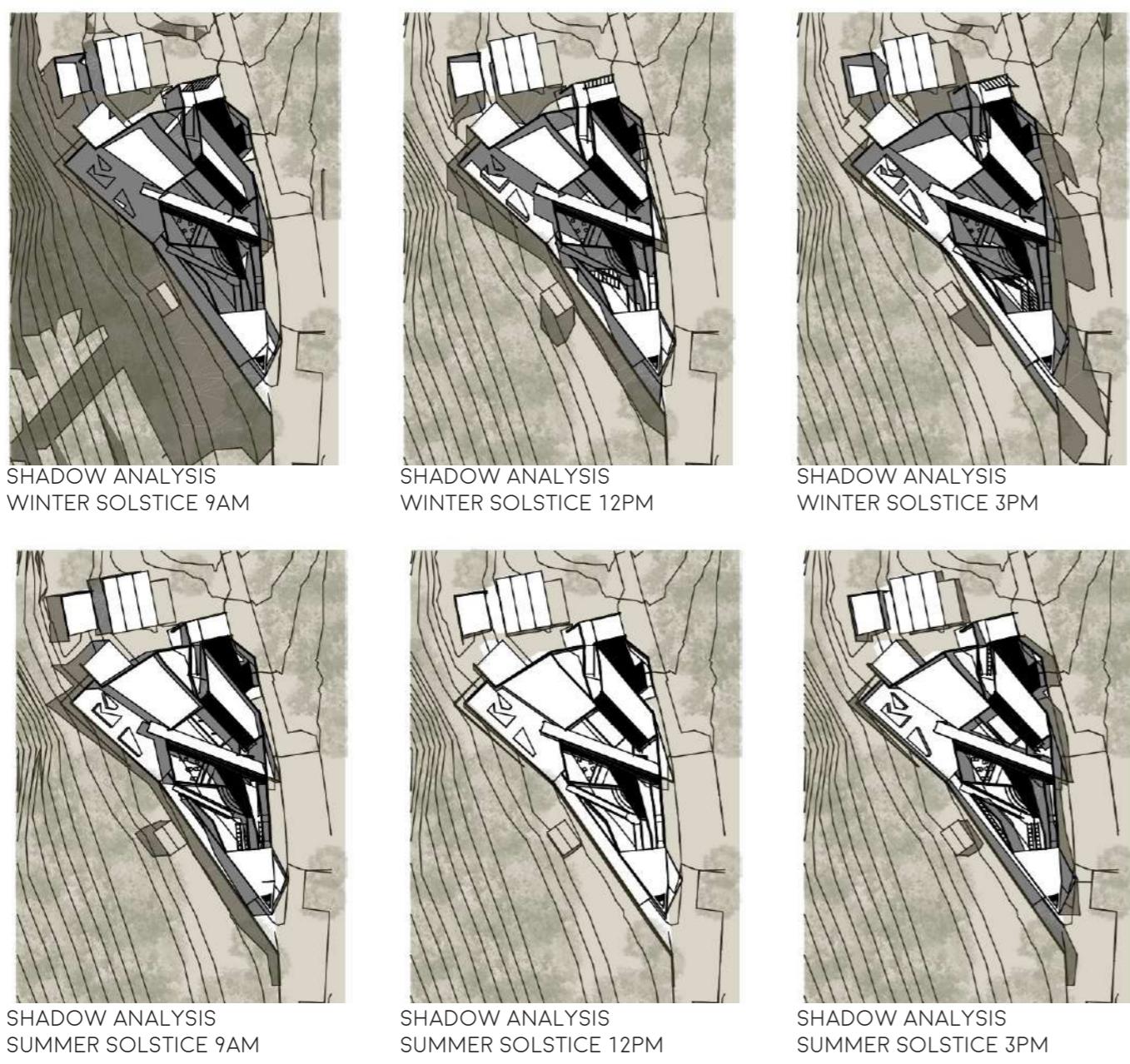


SECTION B



	LOCATION	PACE	DESCRIPTION
1	Road entry	Movement	First view of the museum, emotions of isolation and intimidation.
2	Senses trail	Start of journey	The visitor is guided by the clear path and is able to understand the landscape, allows insight into the creation and attraction of Binna Burra. Emotions of sense of belonging and happiness.
3	Entrance into Before	Movement	Transition from landscape to built form, contrast between definitive edge and landscape creates an imposing structure. Emotions of hesitation and anxiety.
4	'Before' exhibition	Gathering	Large open space with a strong connection to the landscape. Allows for a place to gather and reflect on the philosophy of Binna Burra as a meeting place. Emotions of appreciation.
5	'During animal' exhibition	Movement	Structural elements to block paths. Visitor feels emotions of the animals as they are forced to flee and seek refuge without a clear understanding. Emotions of fear, and confusion.
6	Transitional node	Pause	Path to guide visitor to next exhibition, allows for time to reflect. Path is bare to let visitor sit with their thoughts.
7	'After animal' exhibition	Pause	Enter into a void. The void signifies the after experience of the animals, the visitor feels the isolation from their family and the loss of habitat as a heavy weight.
8	Transitional node	Pause	Path to guide visitor to next exhibition, allows for time to reflect. Path is bare to let visitor sit with their thoughts.
9	'Before' exhibition	Gathering	Return to large open space with a strong connection to the landscape. Allows for a place to gather and reflect before continuing. Visitor has a new appreciation for Binna Burra.
10	'During human' exhibition	Movement	Transition from an open space to a confined low height space emotions of stress and anticipation, as the user is forced to progress forward/evacuate.
11	Transitional node	Pause	Path to guide visitor to next exhibition, allows for time to reflect. Path is bare to let visitor sit with their thoughts.
12	'After human' exhibition	Movement	Transition to an enclosed space, emotions associated with the aftermath of the fires, grief related to the loss.
13	Exit via road	Movement	The building structure shadows the road and the visitor feels isolation with a definitive contrast between the structure on the left and the landscape on the right.
14	Exit via 'Before' exhibition	Movement	The visitor returns to the 'before exhibition and is reminded of Binna Burra pre fire. They leave with the feeling of hope for regrowth.

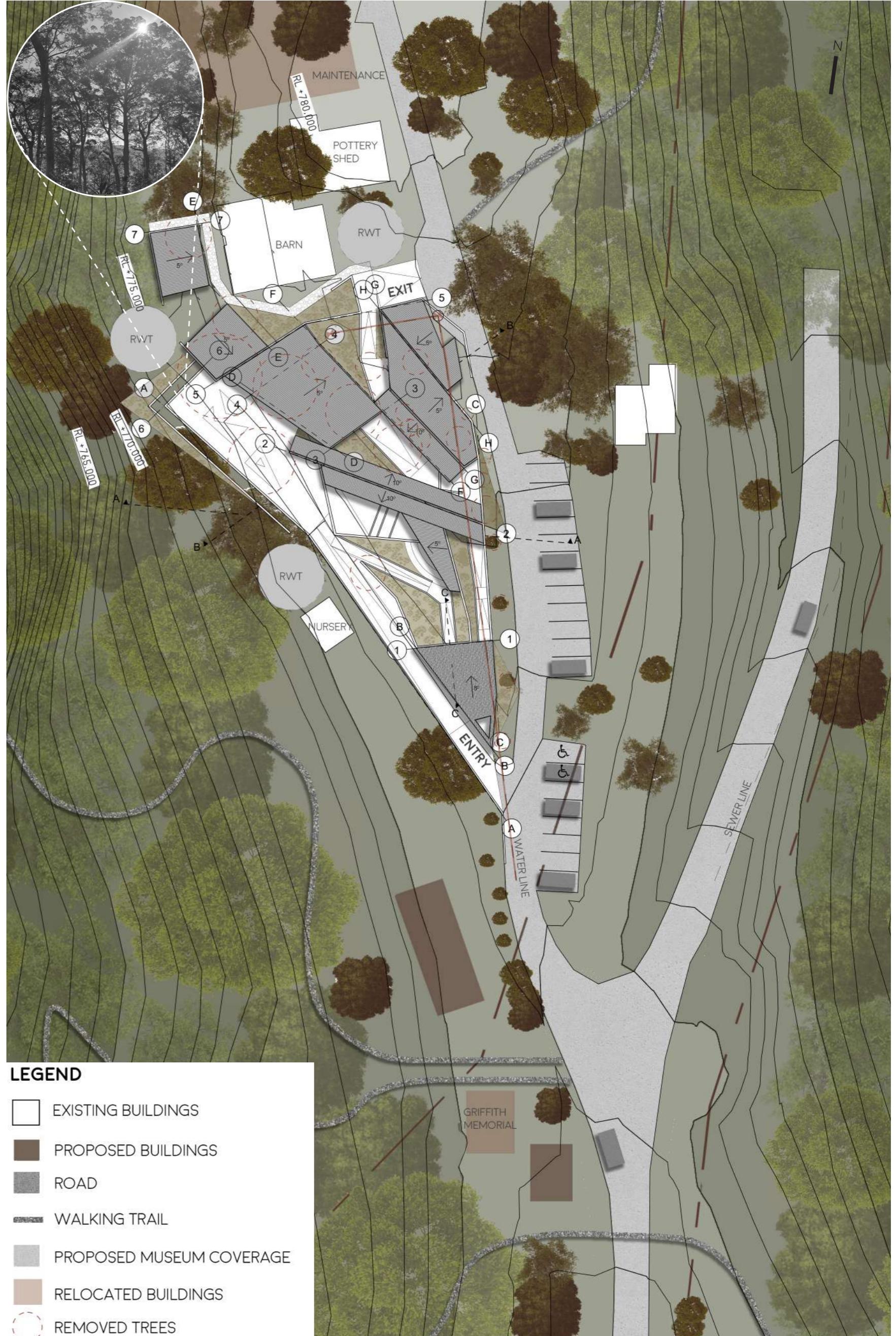
PROCESSION THROUGH MUSEUM



SHADOW ANALYSIS - SHADOW IMPACT OF BUILDING

SCALE 1:1000

0 10 20 40m



SITE PLAN

SCALE 1:500

0 5 10 20m

Spatial Programming - 500m2

Exhibition Areas - Inside

EXHIBITION 'DURING' - HUMAN EXPERIENCE
EXHIBITION 'AFTER' - HUMAN EXPERIENCE
EXHIBITION 'AFTER' - ANIMAL EXPERIENCE

109M2
88M2
72M2
269M2

Offices and Workspaces

SHARED OFFICE
MEETING ROOM
STAFF KITCHENETTE

18M2
12M2
6M2
36M2

Storage Rooms

ARTIFACT STORAGE
COLLECTION STORAGE
ARCHIVE STORAGE

16M2
16M2
14M2
48M2

Restrooms and Amenities

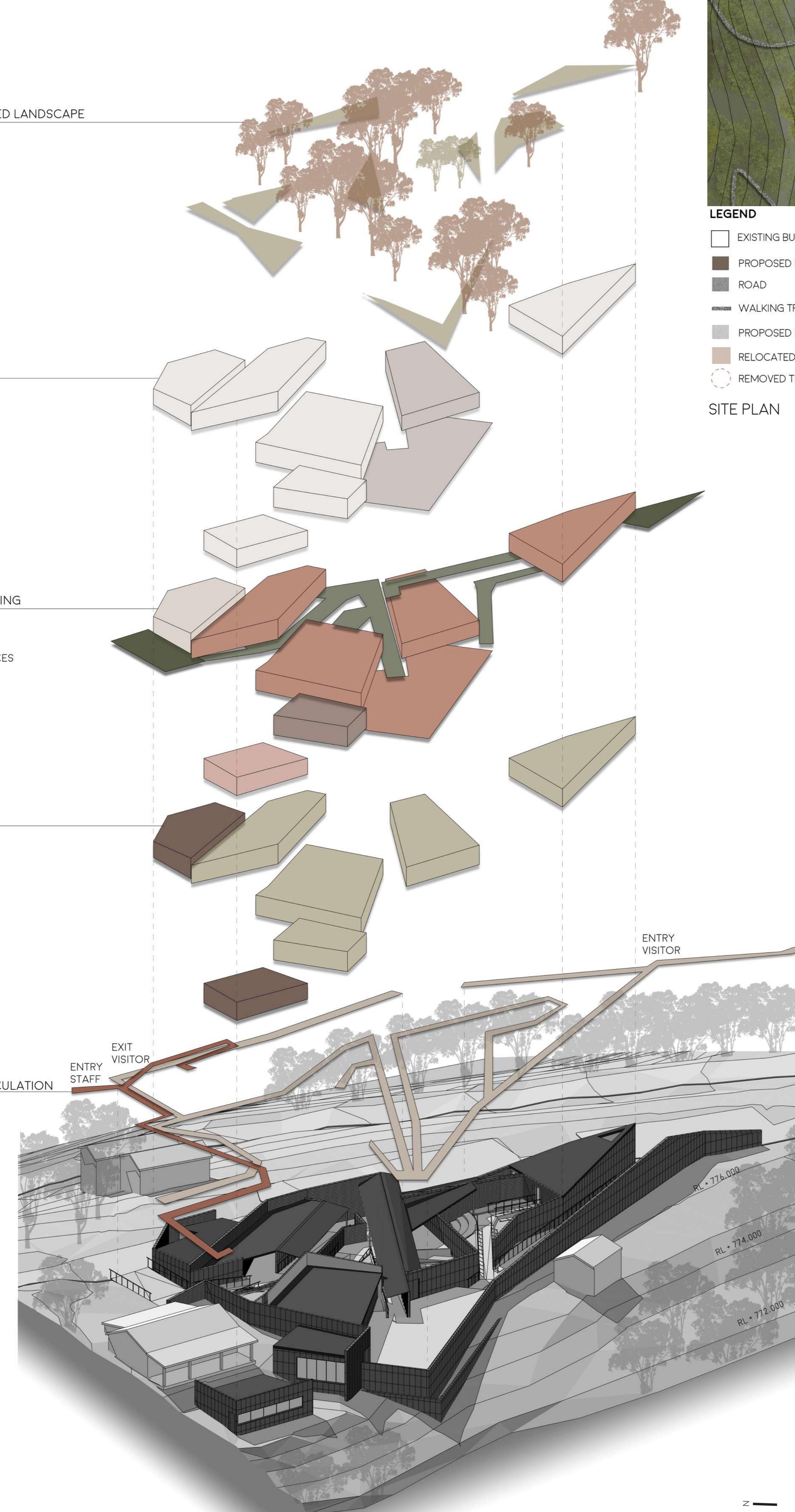
STAFF BATHROOMS
PUBLIC BATHROOMS
RECEPTION/INFORMATION DESK
GIFT SHOP AND CAFE
DELIVERIES
CLEANERS STORE

12M2
30M2
12M2
40M2
5M2
4M2
103M2

Paths and Access - Outside Exhibitions

EXHIBITION 'BEFORE'
EXHIBITION 'DURING' - ANIMAL EXPERIENCE

100M2
96M2
456M2 + 196M2 EXTERNAL SPACE



AXONOMETRIC

SCALE 1:250

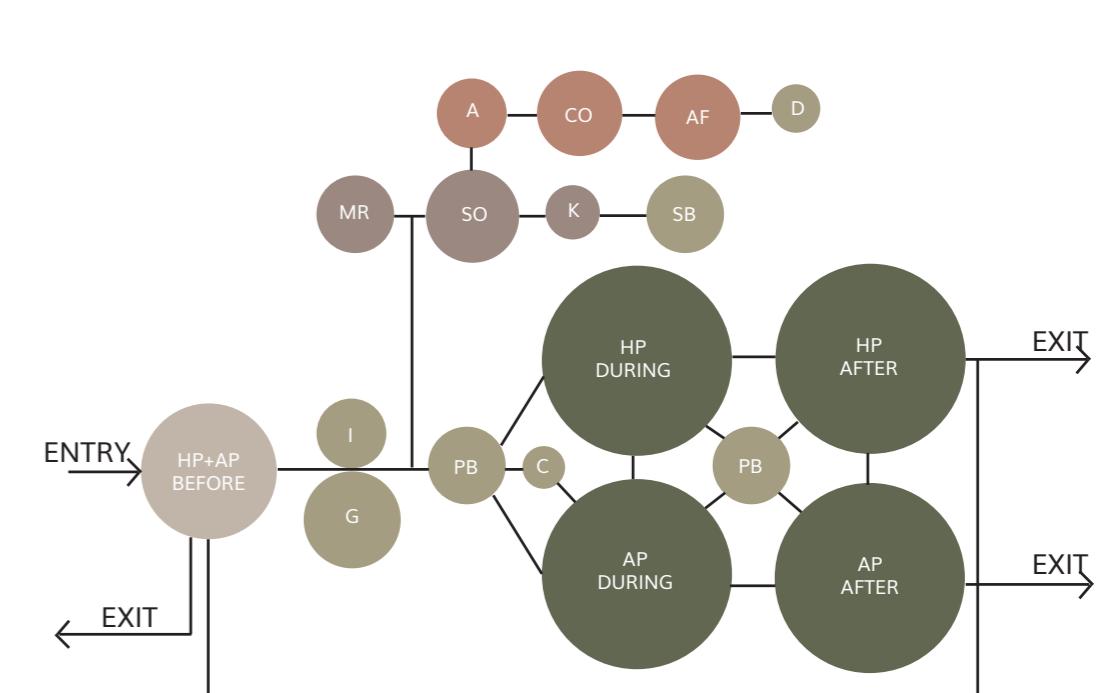
0 5 10m

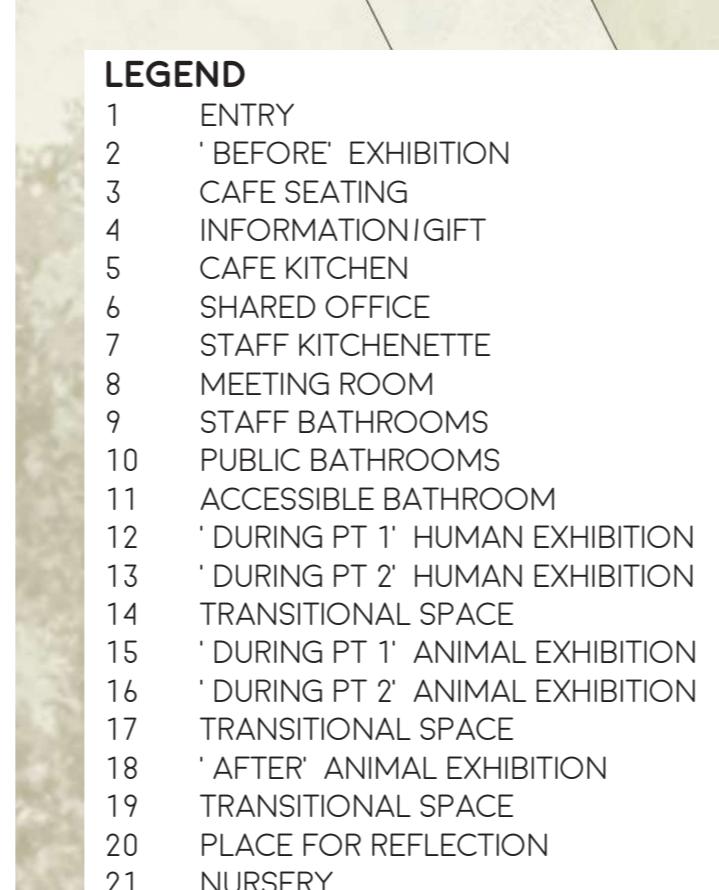
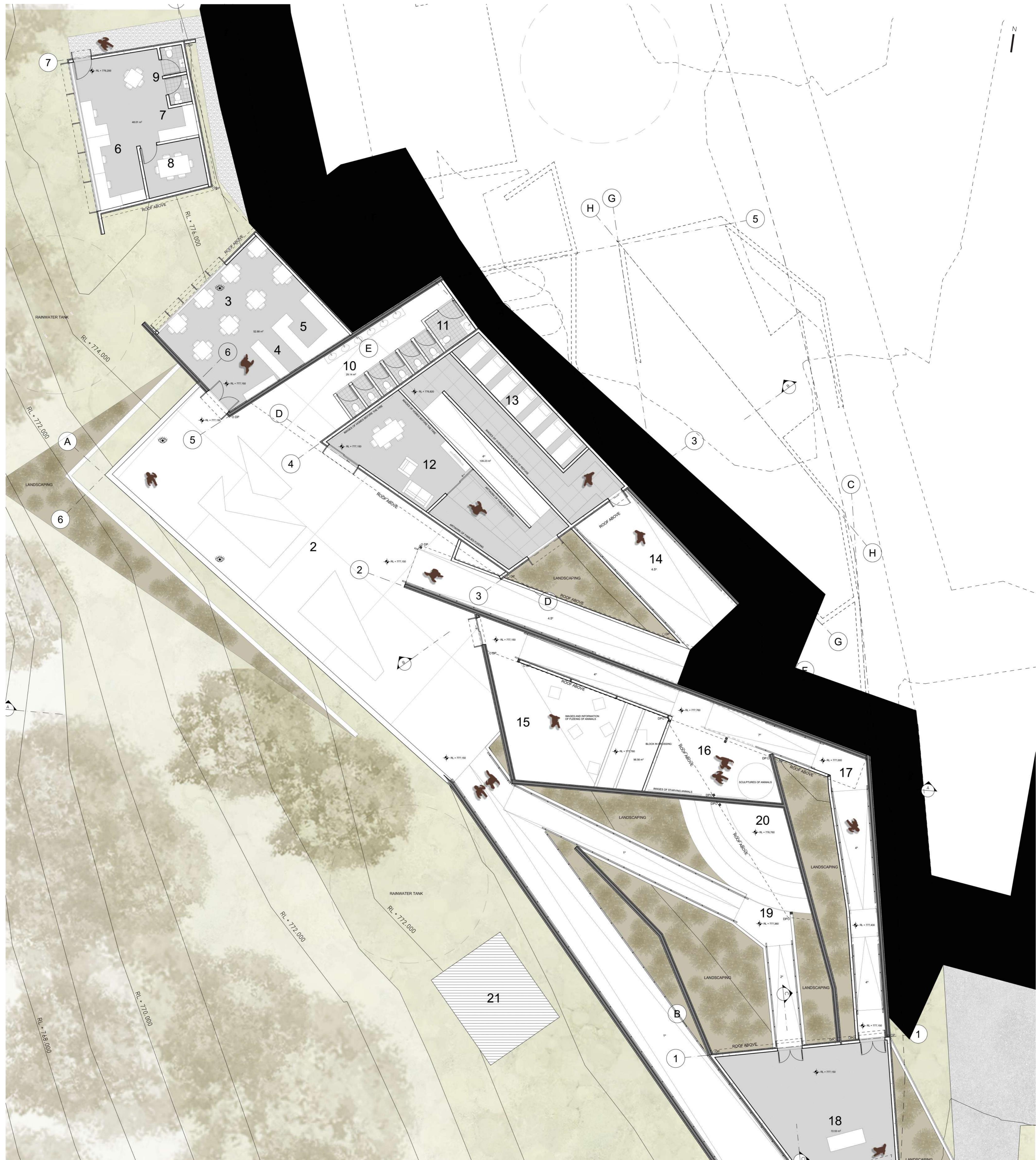
Layout of Programs

SCALE 1:400

0 4 8 16m

KEY
 HP HUMAN PERSPECTIVE
 AP ANIMAL PERSPECTIVE
 SO SHARED OFFICE
 MR MEETING ROOM
 K KITCHENETTE
 AF ARTIFACT STORAGE
 CO COLLECTION STORAGE
 A ARCHIVE STORAGE
 G GIFT SHOP AND CAFE
 SB STAFF BATHROOM
 PB PUBLIC BATHROOM
 I INFORMATION/RECEPTION DESK
 D DELIVERIES
 C CLEANERS STORE





GROUND FLOOR PLAN 1-1

STRUCTURAL STRATEGY-DIAGRAM

LEGEND
STRUCTURAL WALLS AND COLUMNS
ROOF STRUCTURE

SCALE 1:500  0 5 10 20m

GROUND FLOOR PLAN 1-1 SCALE 1:100 0 1 2 4m



LEGEND	
1	EXIT
2	'AFTER' HUMAN EXHIBITION
3	LOSS MEMORIAL DISPLAY
4	EMOTIONS OF GRIEF DISPLAY
5	ARTIFACT + COLLECTION STORE
6	ARCHIVE STORE
7	DELIVERIES
8	TRANSITIONAL SPACE
9	BARN
10	CABIN
11	NURSFRY

A scale bar and a north arrow are located in the top left corner of the map. The scale bar is labeled 'SCALE 1:500' and shows distances of 0, 5, 10, and 20 meters. The north arrow is a small grey square with a black arrow pointing upwards.

A scale bar diagram for a map. It features a horizontal line with tick marks at 0, 1, 2, and 4. The segment from 0 to 1 is filled with a dark grey color, while the segments from 1 to 2 and from 2 to 4 are white. The text "SCALE 1:100" is positioned to the left of the scale bar.