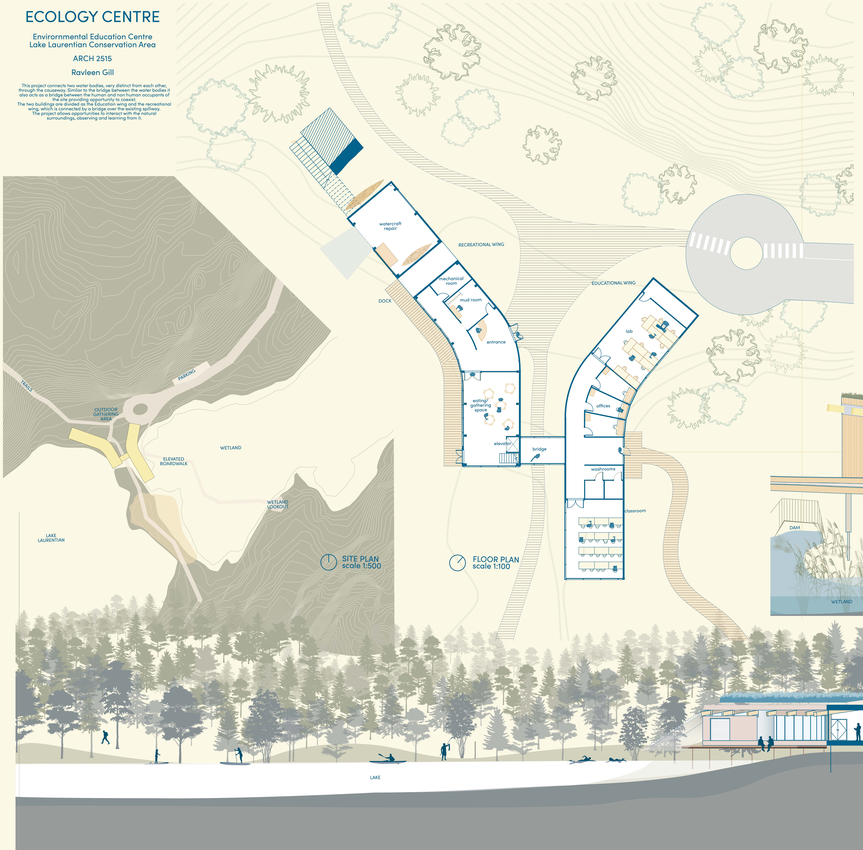
ECOLOGY CENTRE

Environmental Education Centre
Lake Laurentian Conservation Area

ARCH 2515

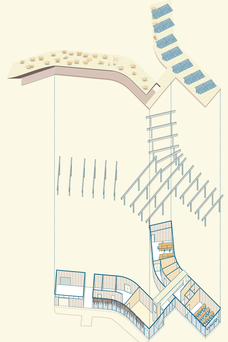
Ravleen Gill

This project connects two water bodies, very distinct from each other, through the causeway. Similar to the bridge between the water bodies it also acts as a hub for the surrounding trails and provides occupants of the site providing opportunity to cascade.
The two buildings are divided as the Education wing and the recreational wing, each with its own purpose and the site they occupy.
The project allows opportunities to interact with the natural surroundings, observing and learning from it.



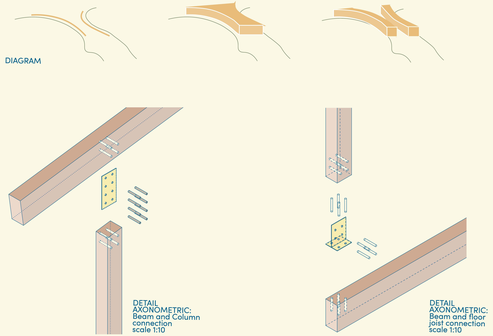
SITE PLAN
scale 1:500

FLOOR PLAN
scale 1:100



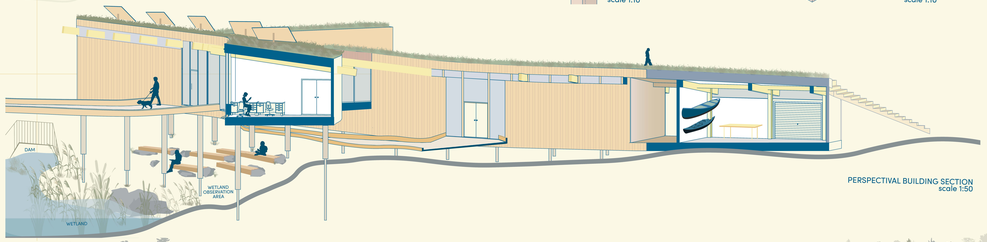
EXPLODED AXONOMETRIC

DIAGRAM

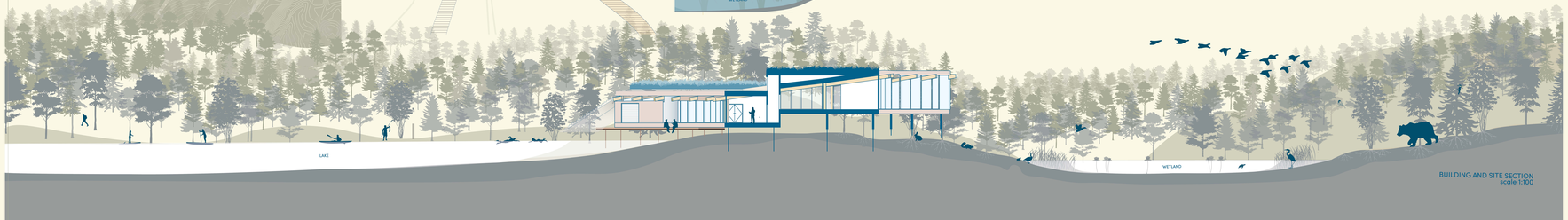


DETAIL AXONOMETRIC:
Beam and Column connection
scale 1:10

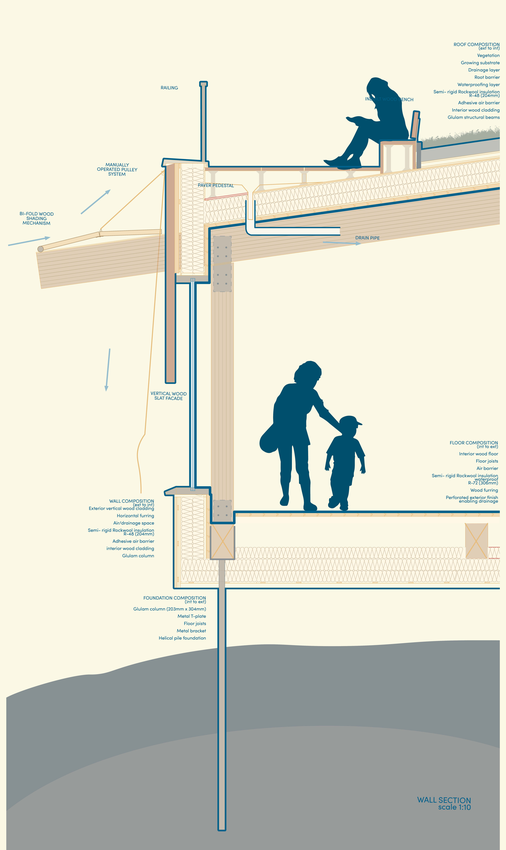
DETAIL AXONOMETRIC:
Beam and floor joist connection
scale 1:10



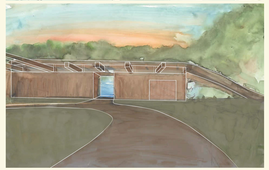
PERSPECTIVAL BUILDING SECTION
scale 1:50

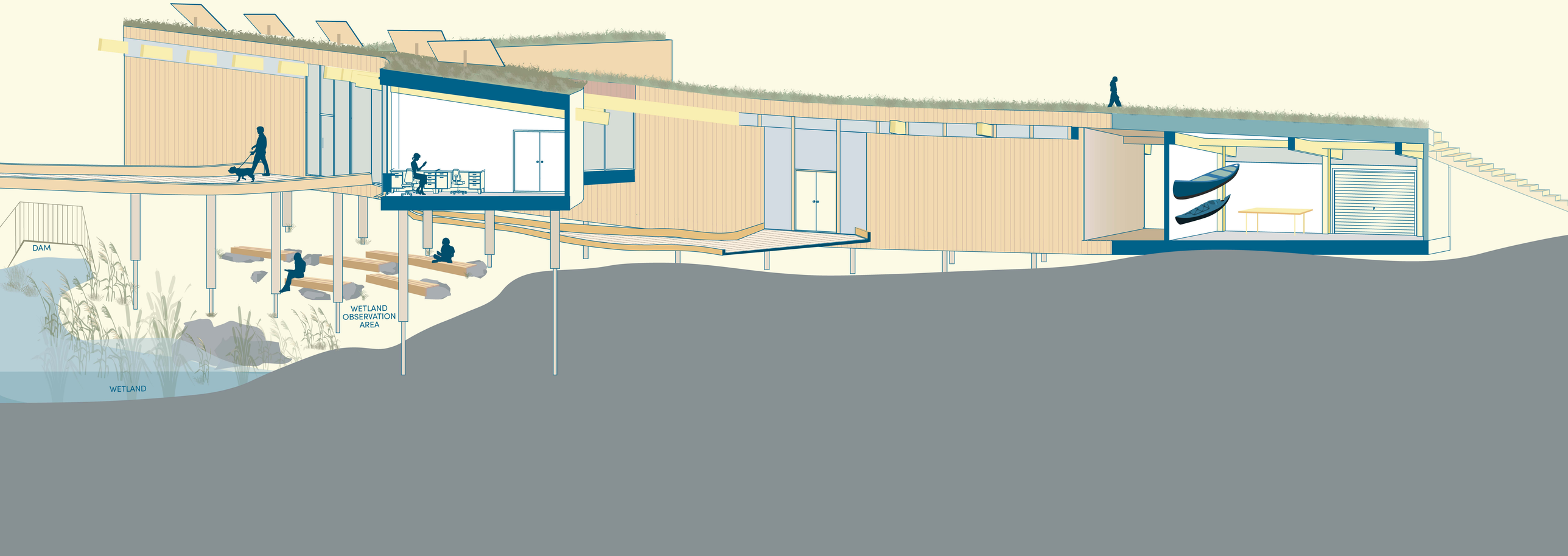


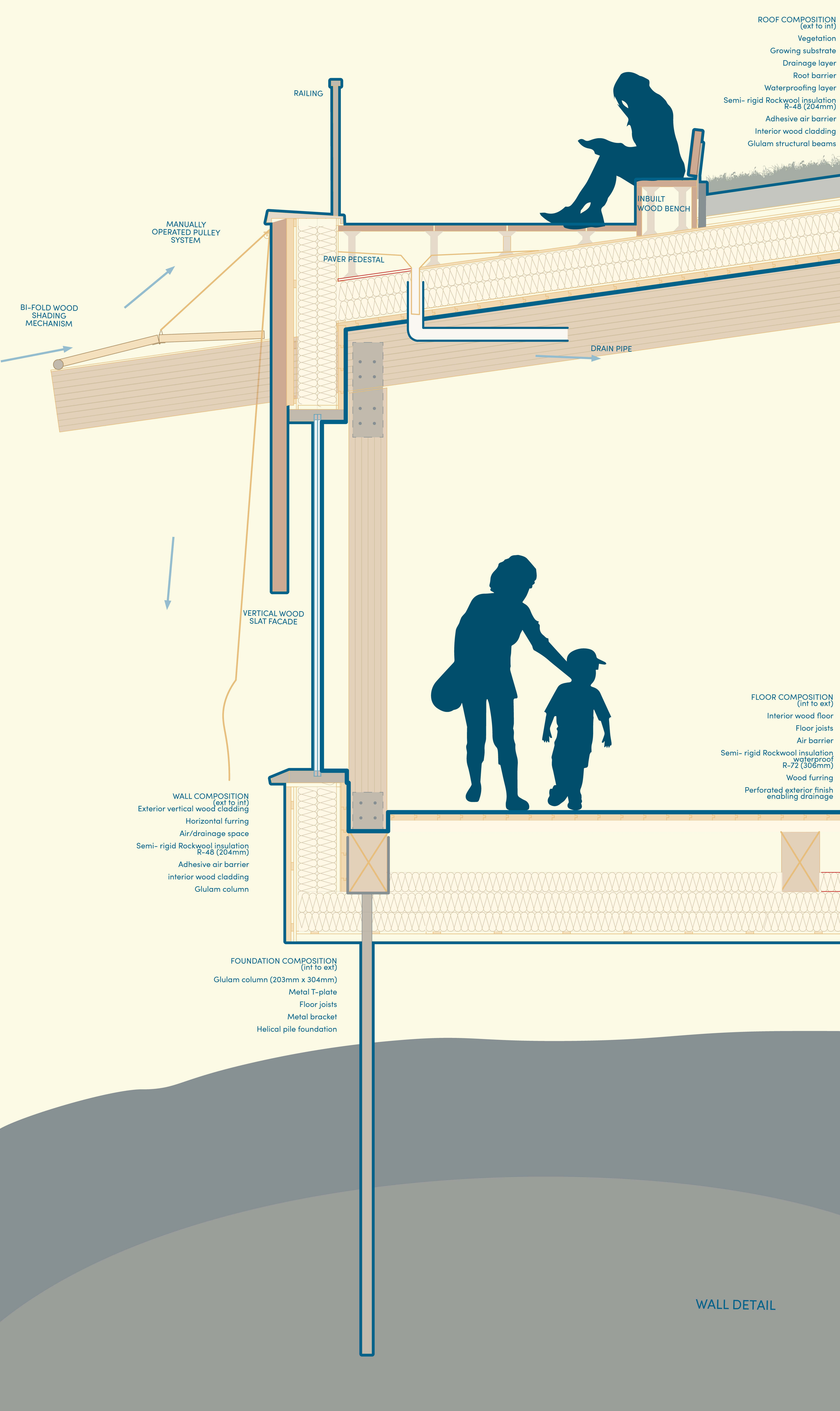
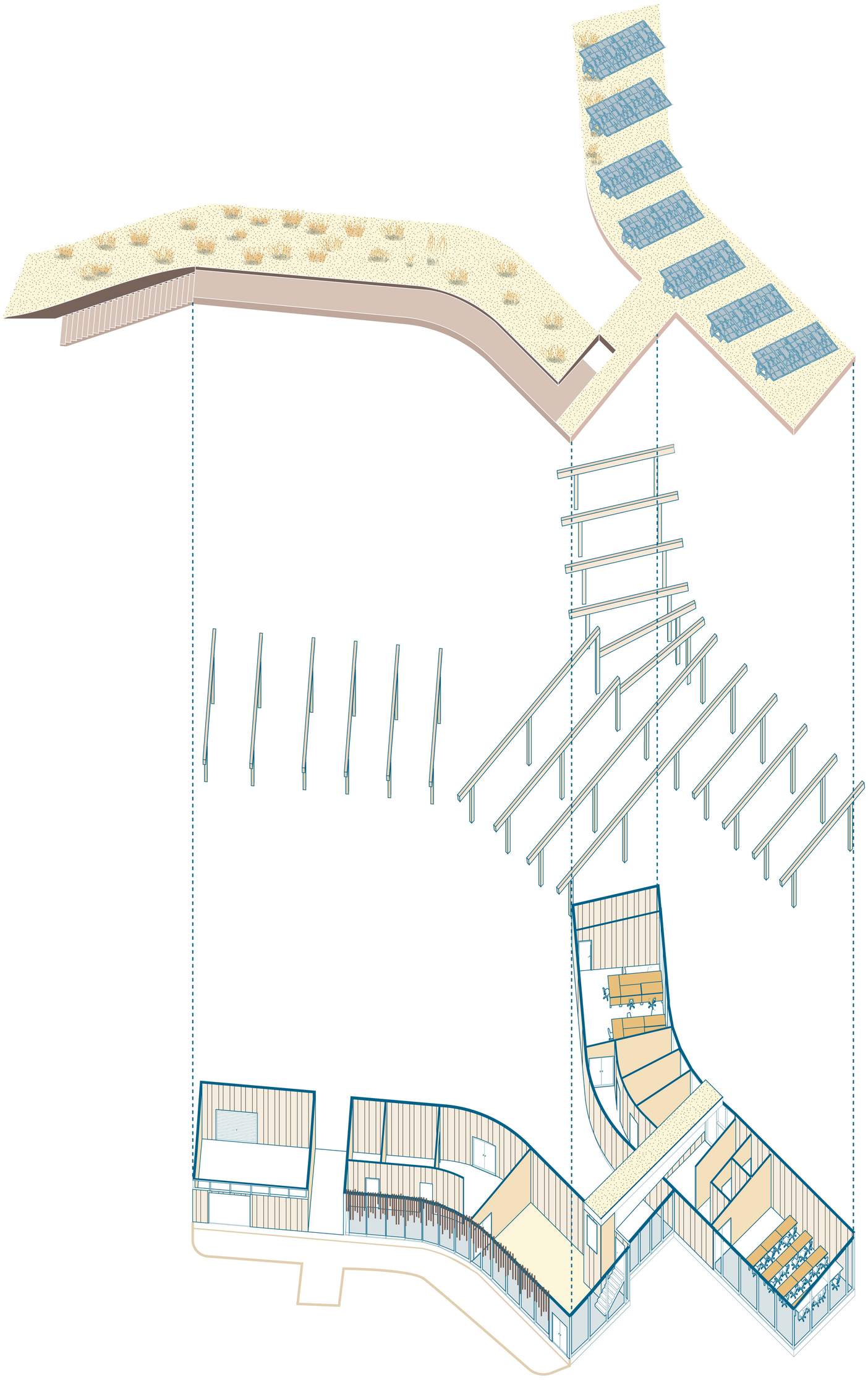
BUILDING AND SITE SECTION
scale 1:100



WALL SECTION
scale 1:10




DAM
WETLAND
WETLAND
OBSERVATION
AREA


ROOF COMPOSITION
(ext to int)
Vegetation
Growing substrate
Drainage layer
Root barrier
Waterproofing layer
Semi- rigid Rockwool insulation
R-48 (204mm)
Adhesive air barrier
Interior wood cladding
Glulam structural beams
RAILING
INBUILT
WOOD BENCH
MANUALLY
OPERATED PULLEY
SYSTEM
PAVER PEDESTAL
BI-FOLD WOOD
SHADING
MECHANISM
DRAIN PIPE
VERTICAL WOOD
SLAT FACADE
FLOOR COMPOSITION
(int to ext)
Interior wood floor
Floor joists
Air barrier
Semi- rigid Rockwool insulation
waterproof
R-72 (306mm)
Wood furring
Perforated exterior finish
enabling drainage
WALL COMPOSITION
(ext to int)
Exterior vertical wood cladding
Horizontal furring
Air/drainage space
Semi- rigid Rockwool insulation
R-48 (204mm)
Adhesive air barrier
interior wood cladding
Glulam column
FOUNDATION COMPOSITION
(int to ext)
Glulam column (203mm x 304mm)
Metal T-plate
Floor joists
Metal bracket
Helical pile foundation

WALL DETAIL