



Salvataggi di Centri Storici Italiani (Italia vostra)
Superstudio

Research

I Territory

the energy transition

II Region

existing condition | scenarios | problem statement

Design

III Infrastructure

existing condition | proposal | impressions

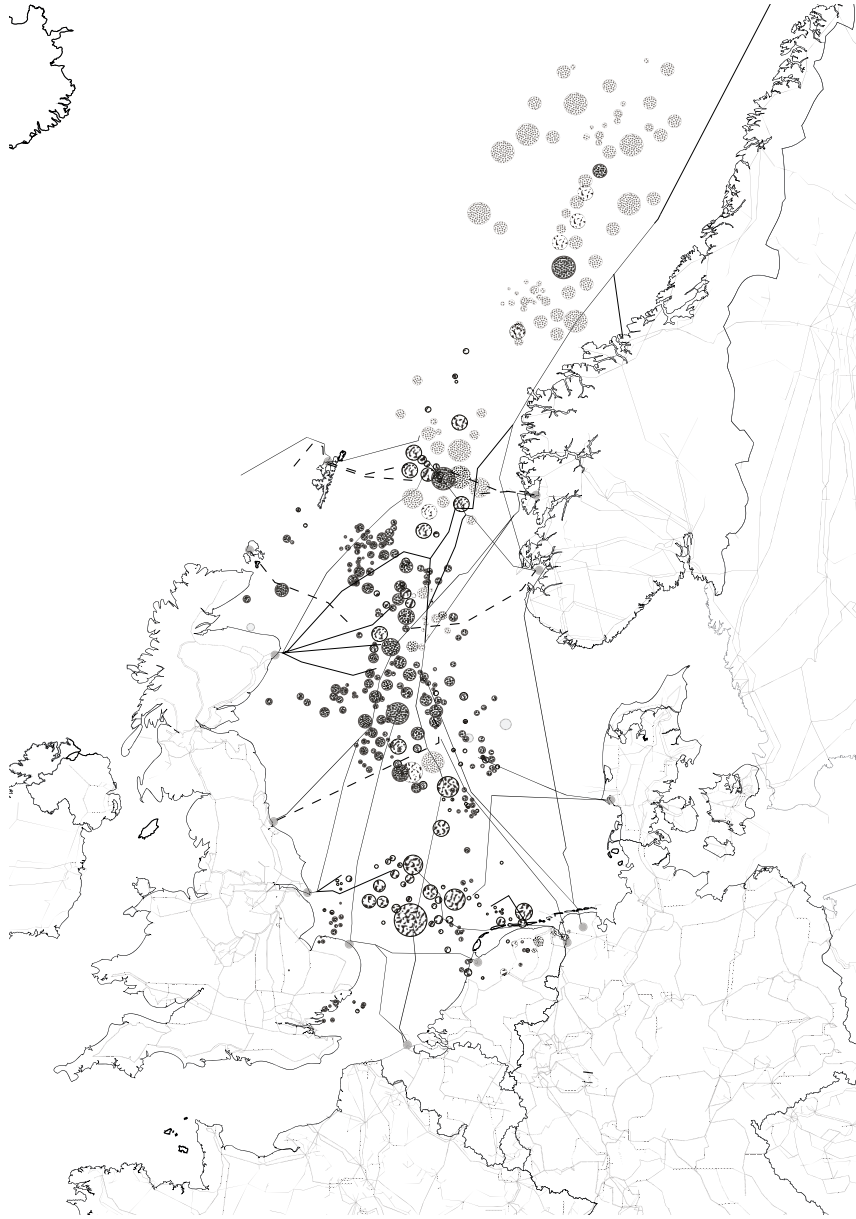
IV Site

existing condition | proposal | impressions

V Distillery

existing condition | proposal | impressions

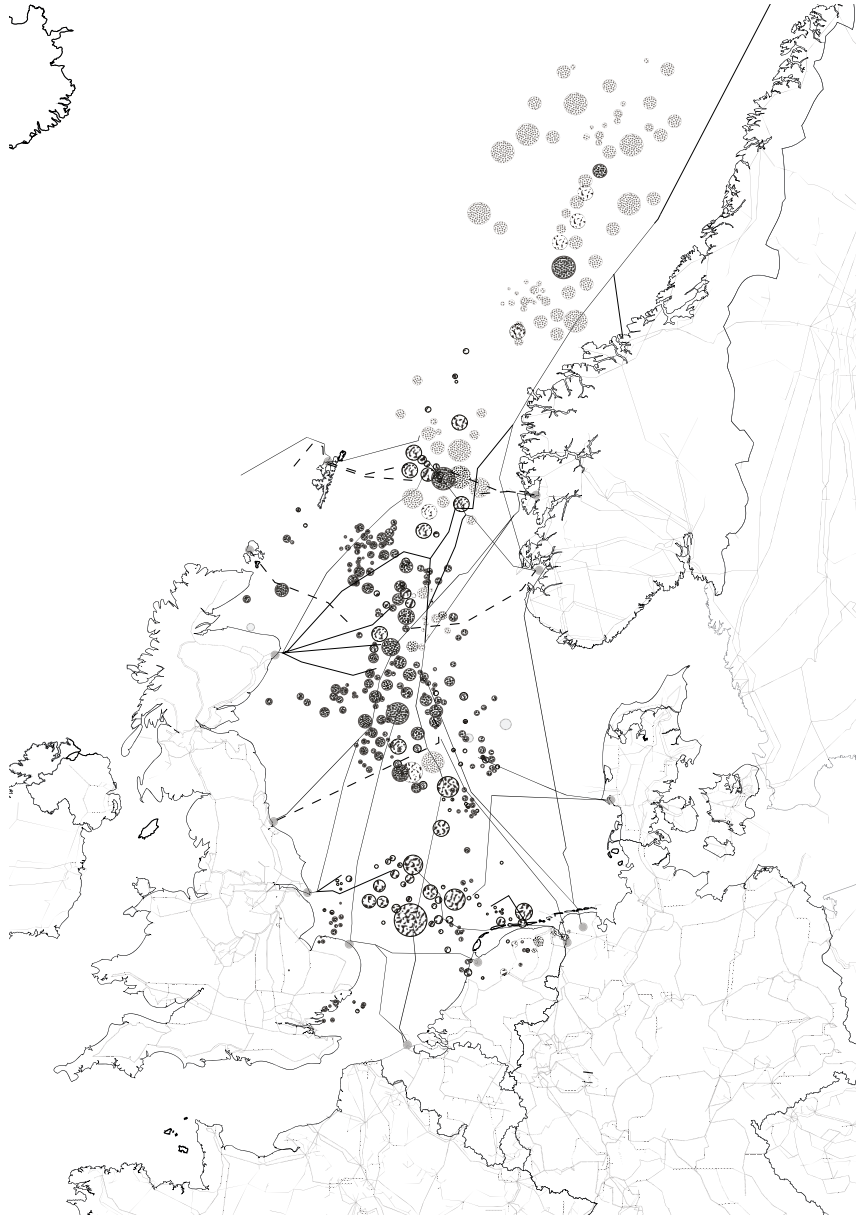
Reflection



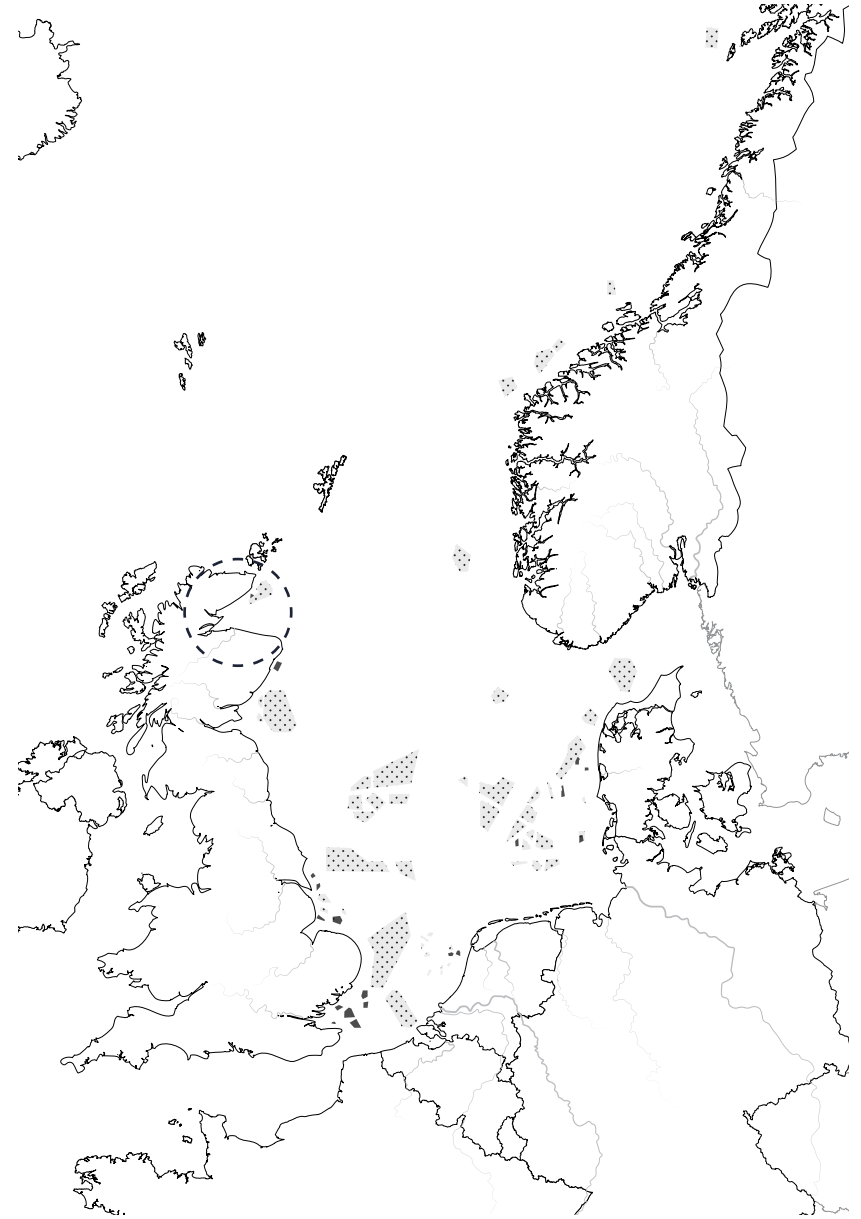
existing oil and gas infrastructure



existing and planned offshore wind farms

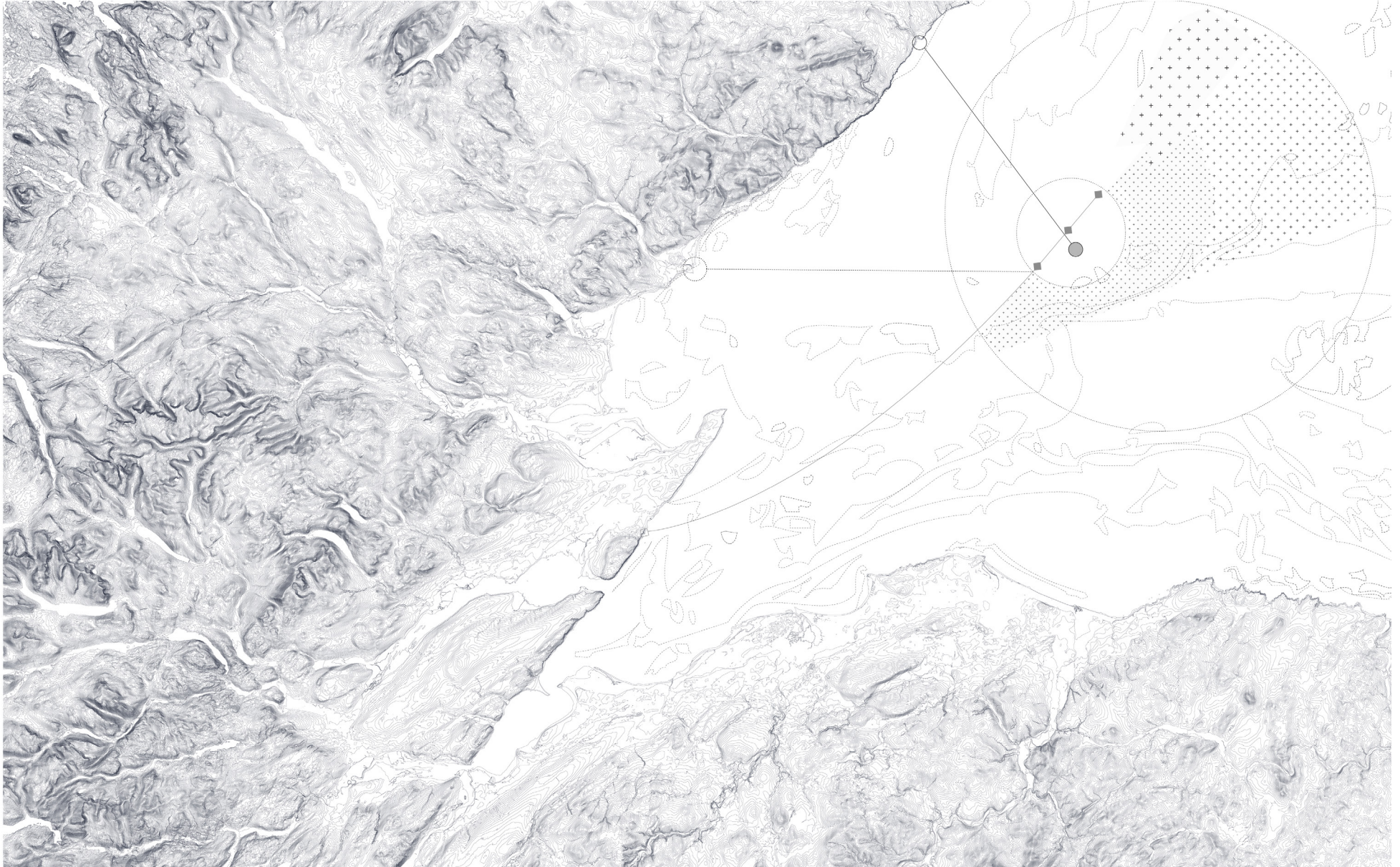


existing oil and gas infrastructure

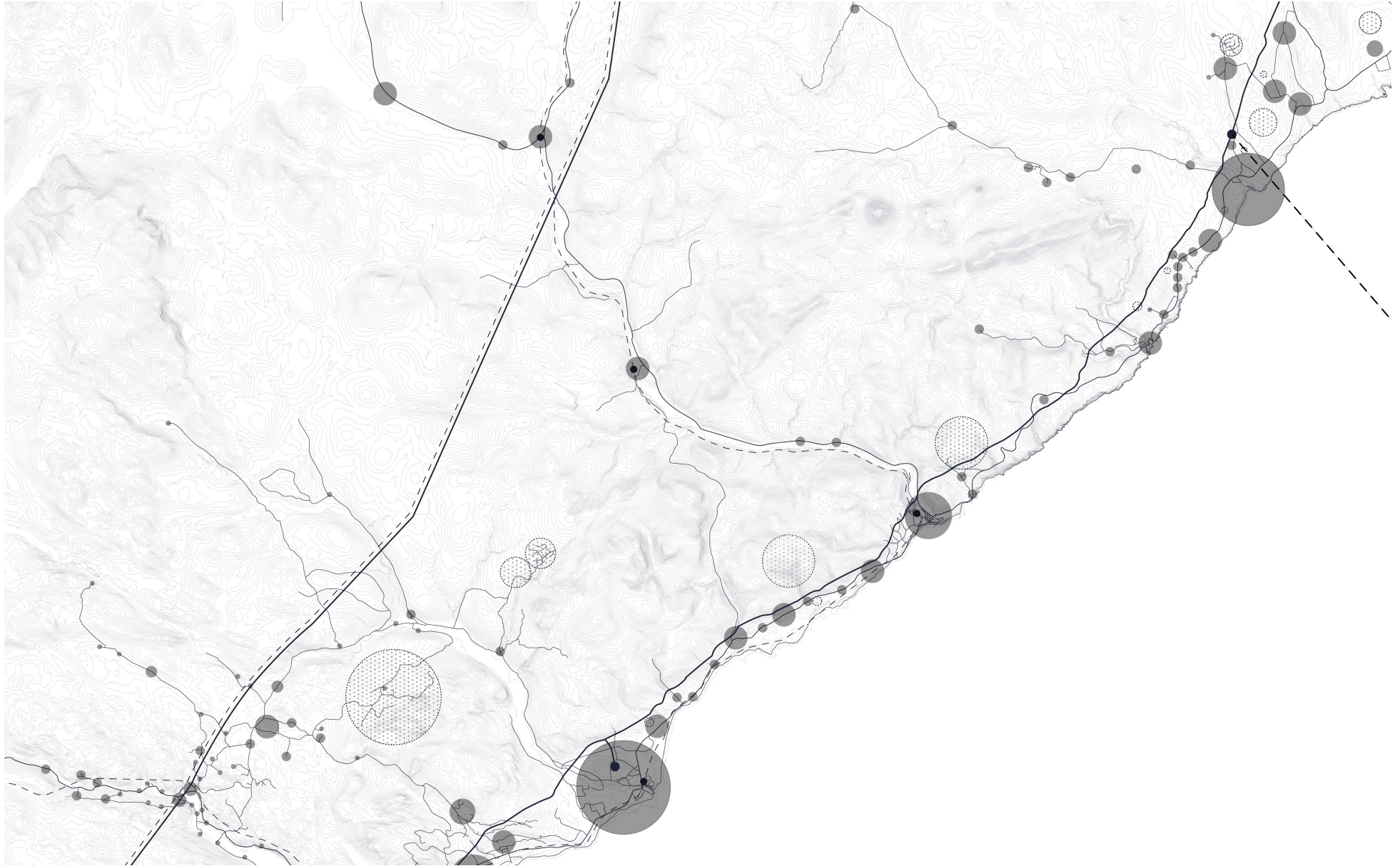


existing and planned offshore wind farms

Existing Condition

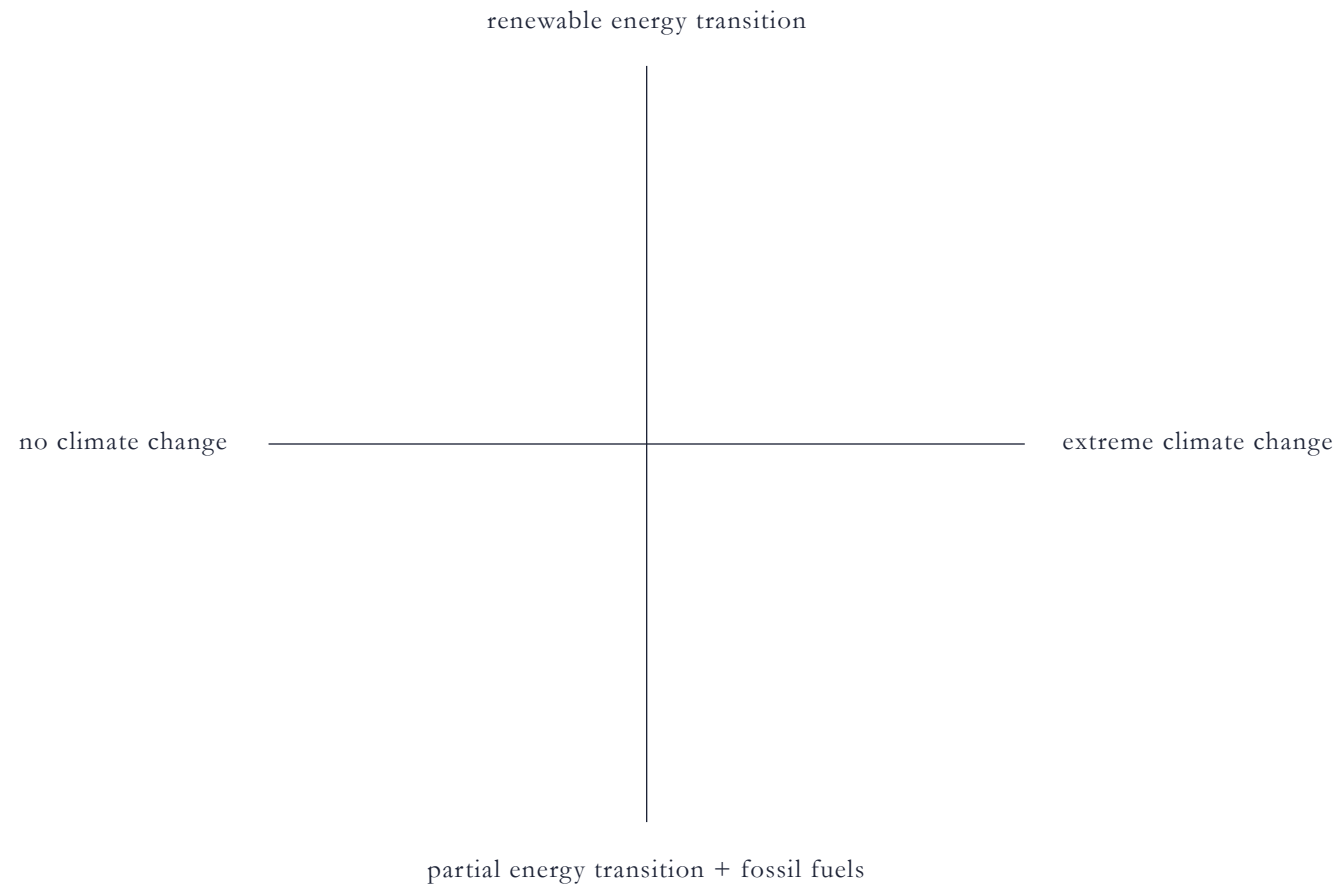


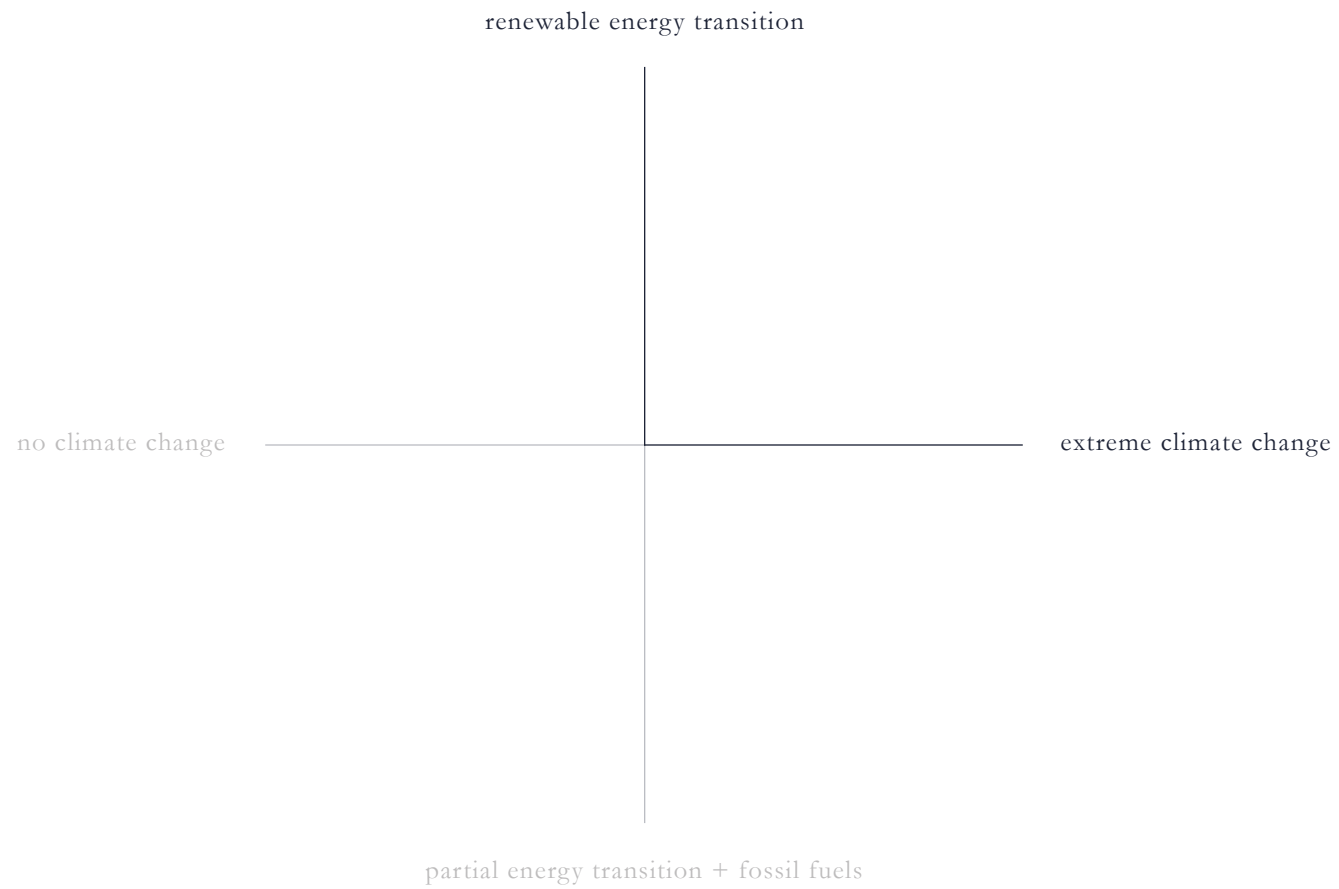
Moray Firth wind farm landing points

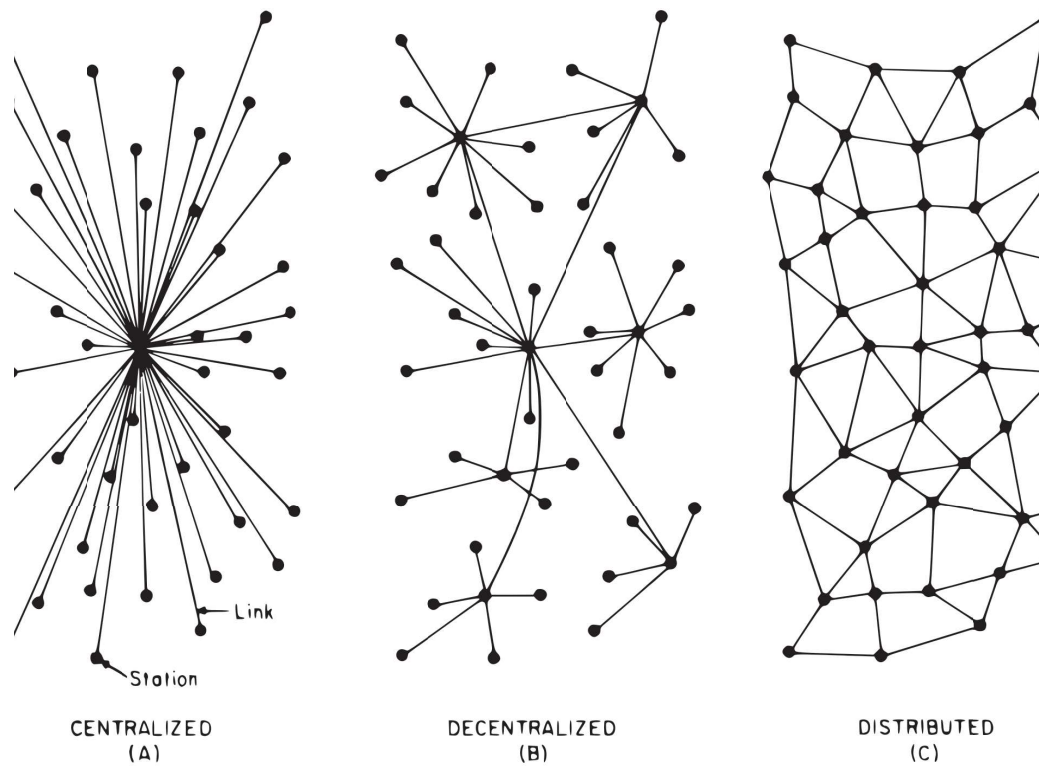


Sutherland's energy infrastructure

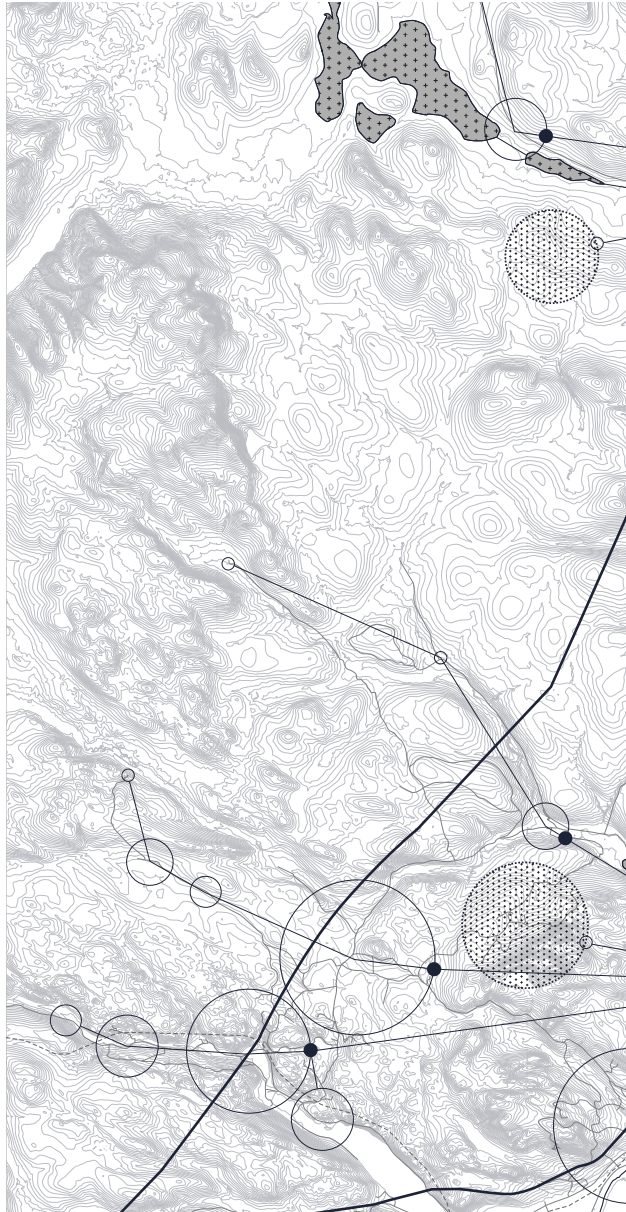
Clean Energy Scenarios



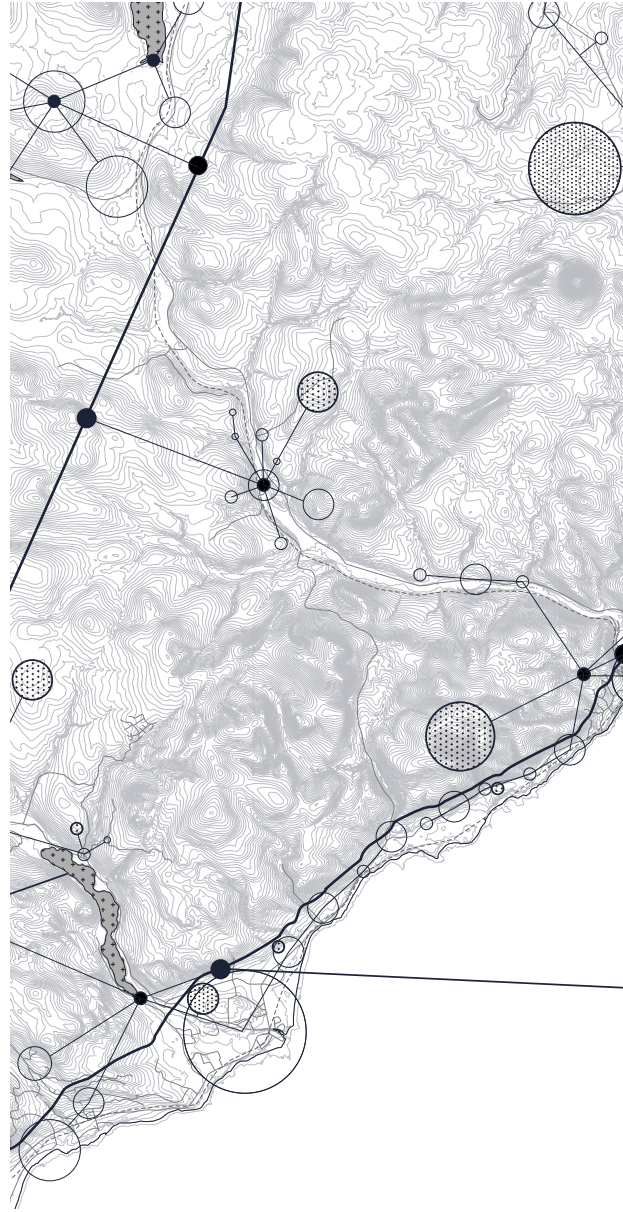




Central Place Theory
Walter Christaller



centralised scenario



distributed scenario



decentralised scenario





flooding



drought

Problem Statement



quantity
John Robert Cozens, 1783-1788

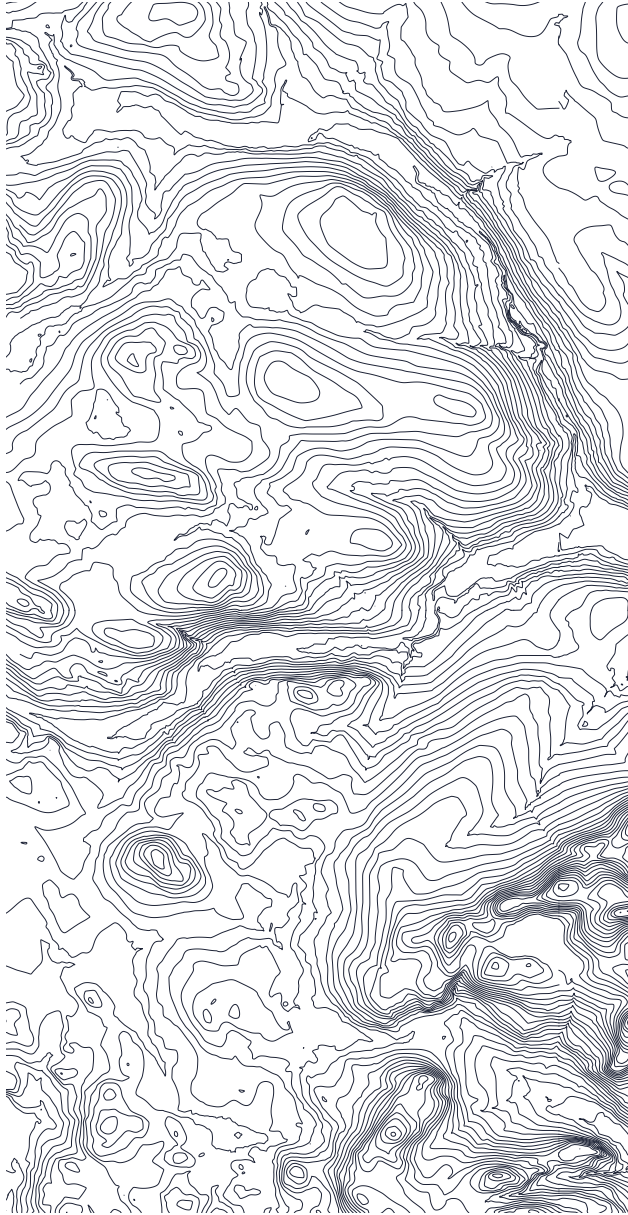


disjuncture
J.M.W. Turner, 1796

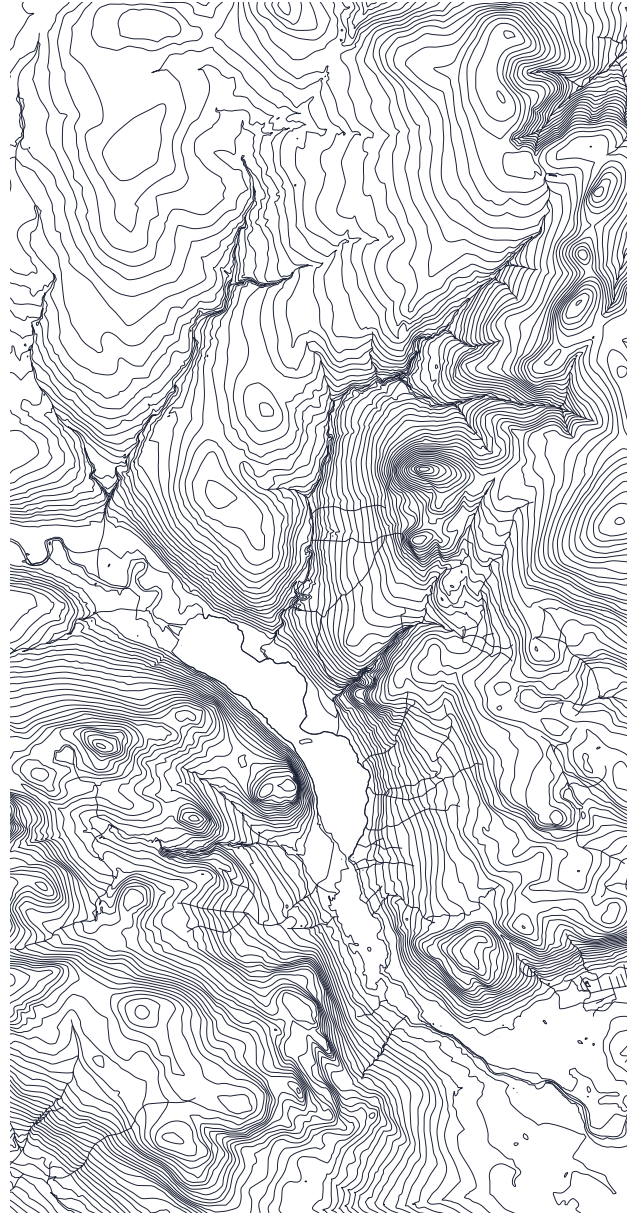
Existing Condition







terrain

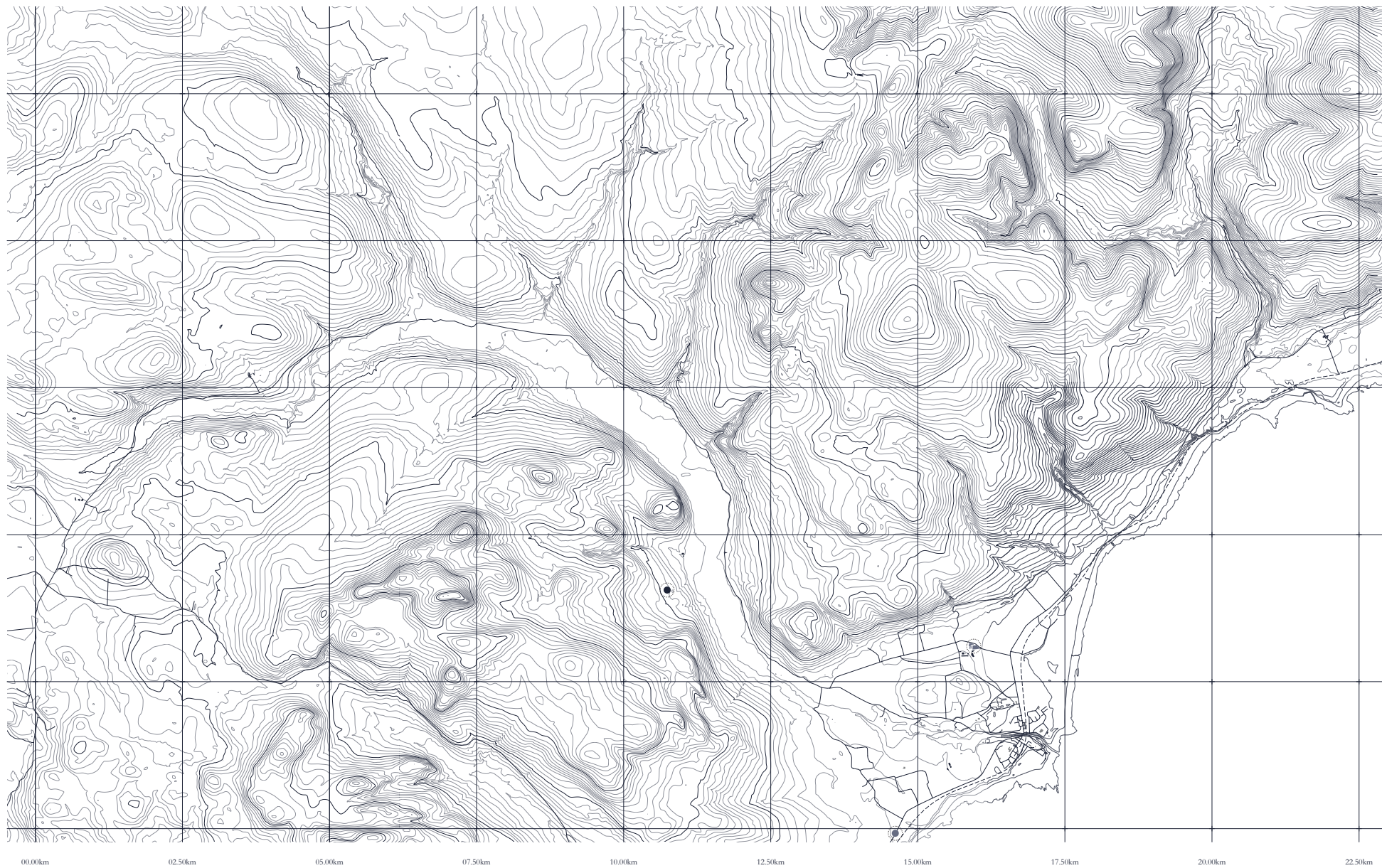


water



soil

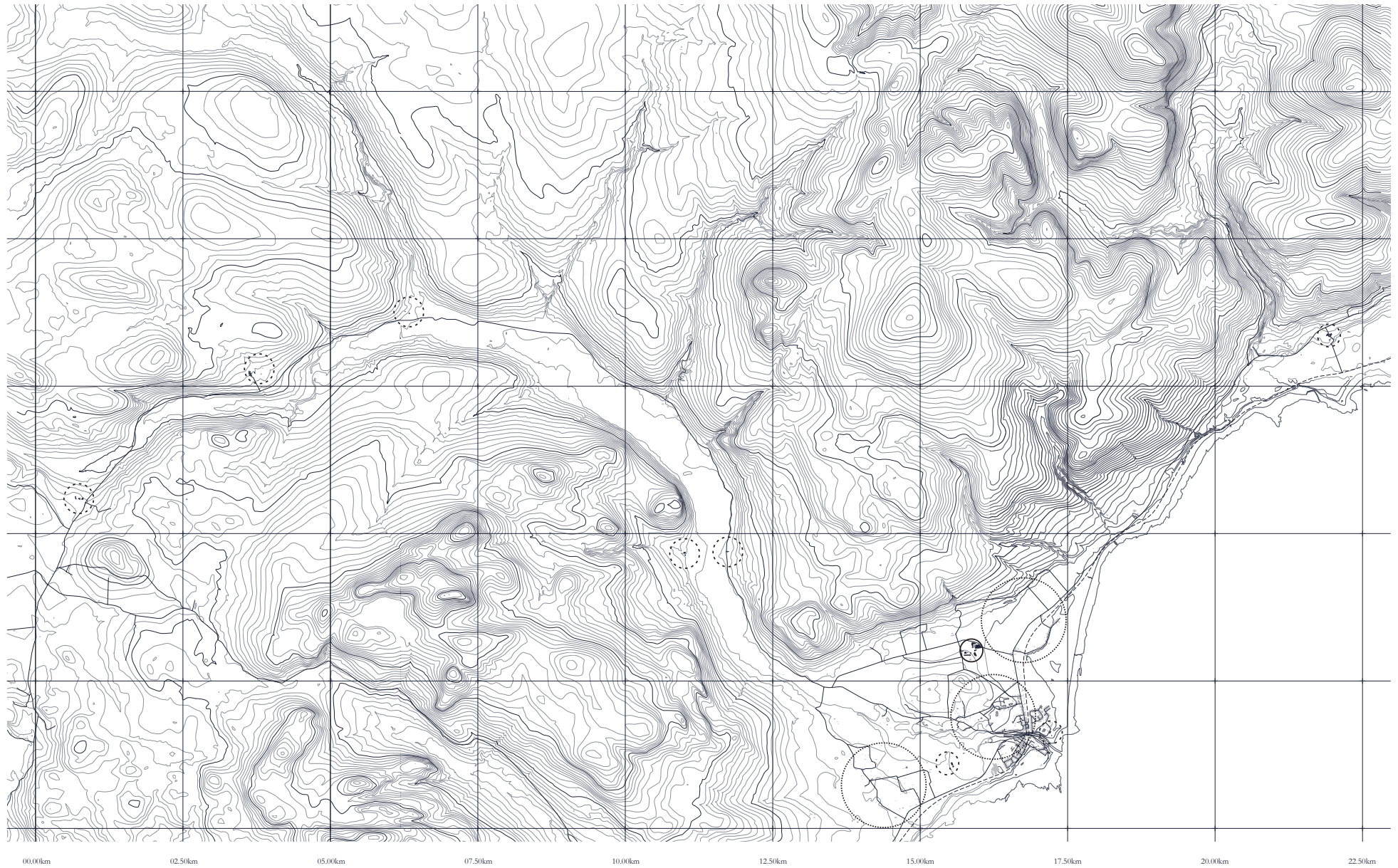
Proposal



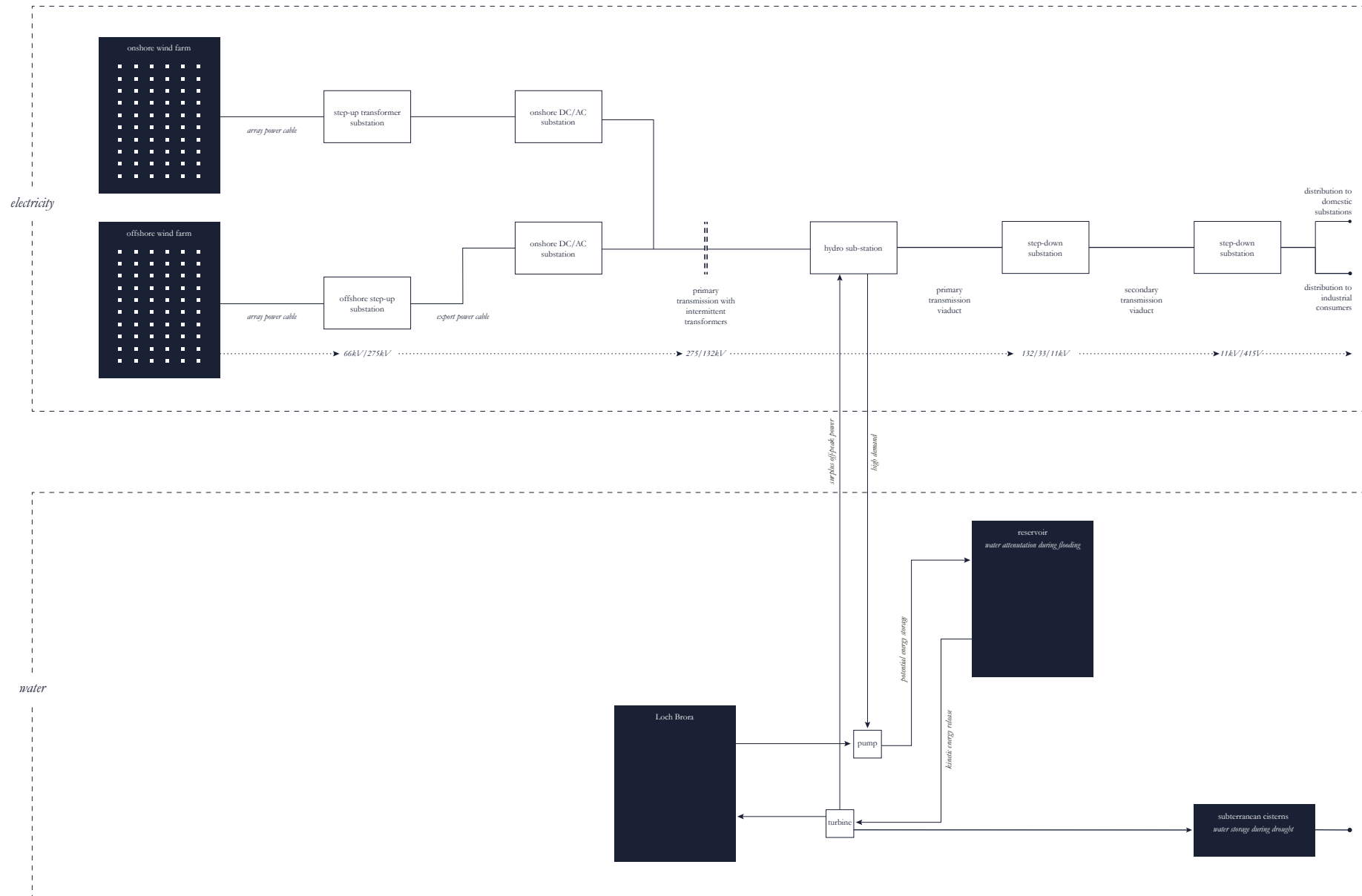
culture



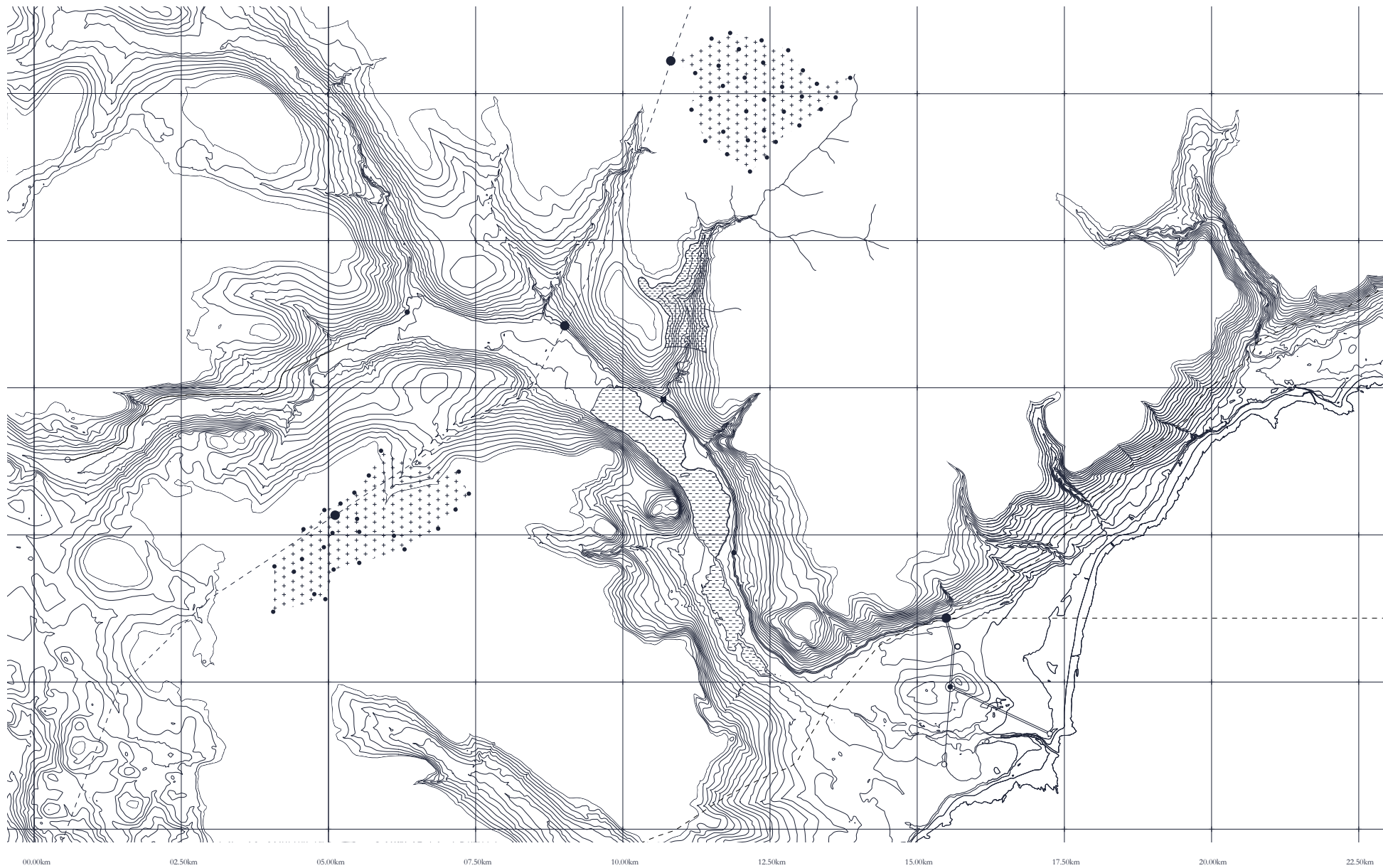
vernacular precedent
Scottish brochs



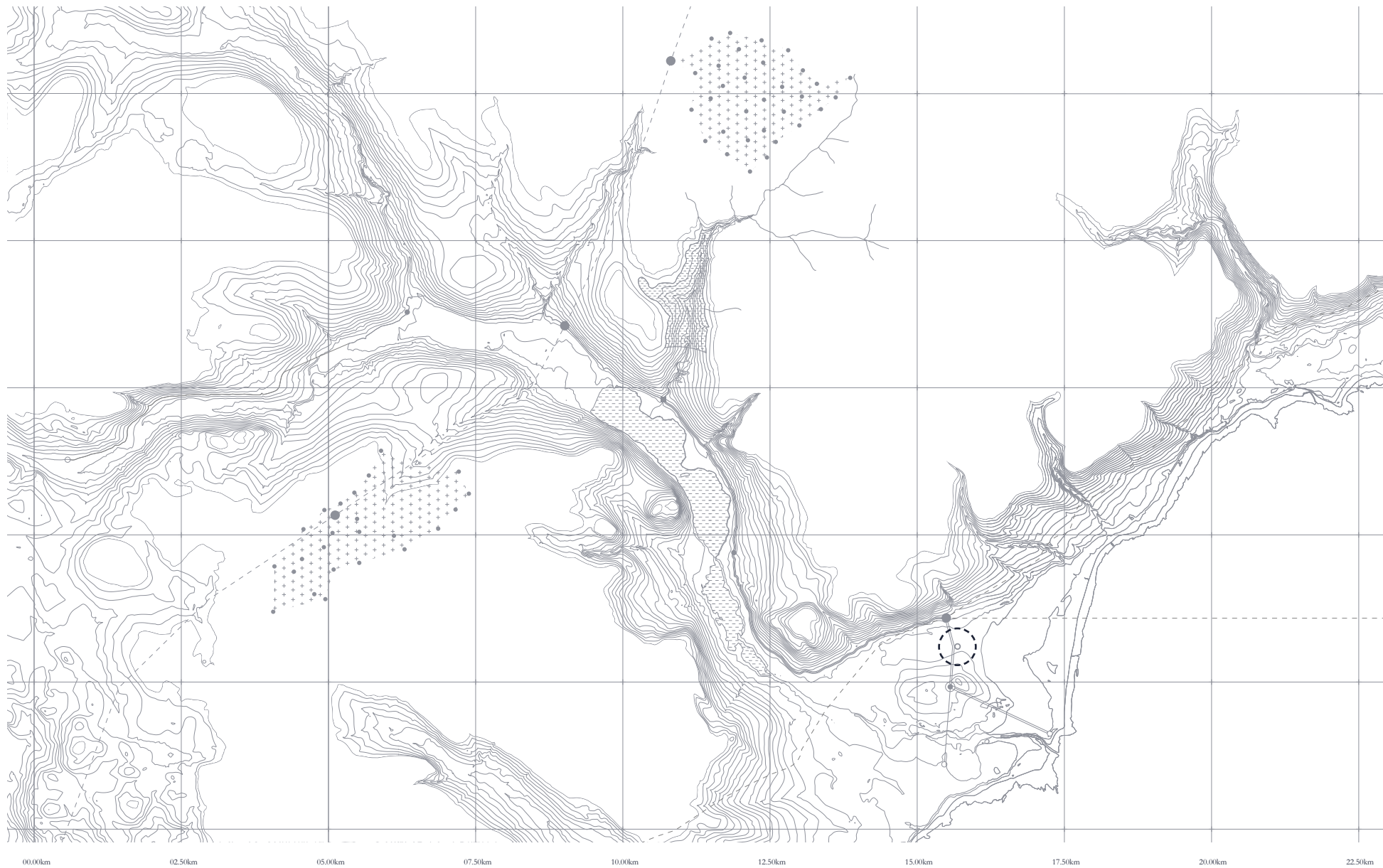
delivery points



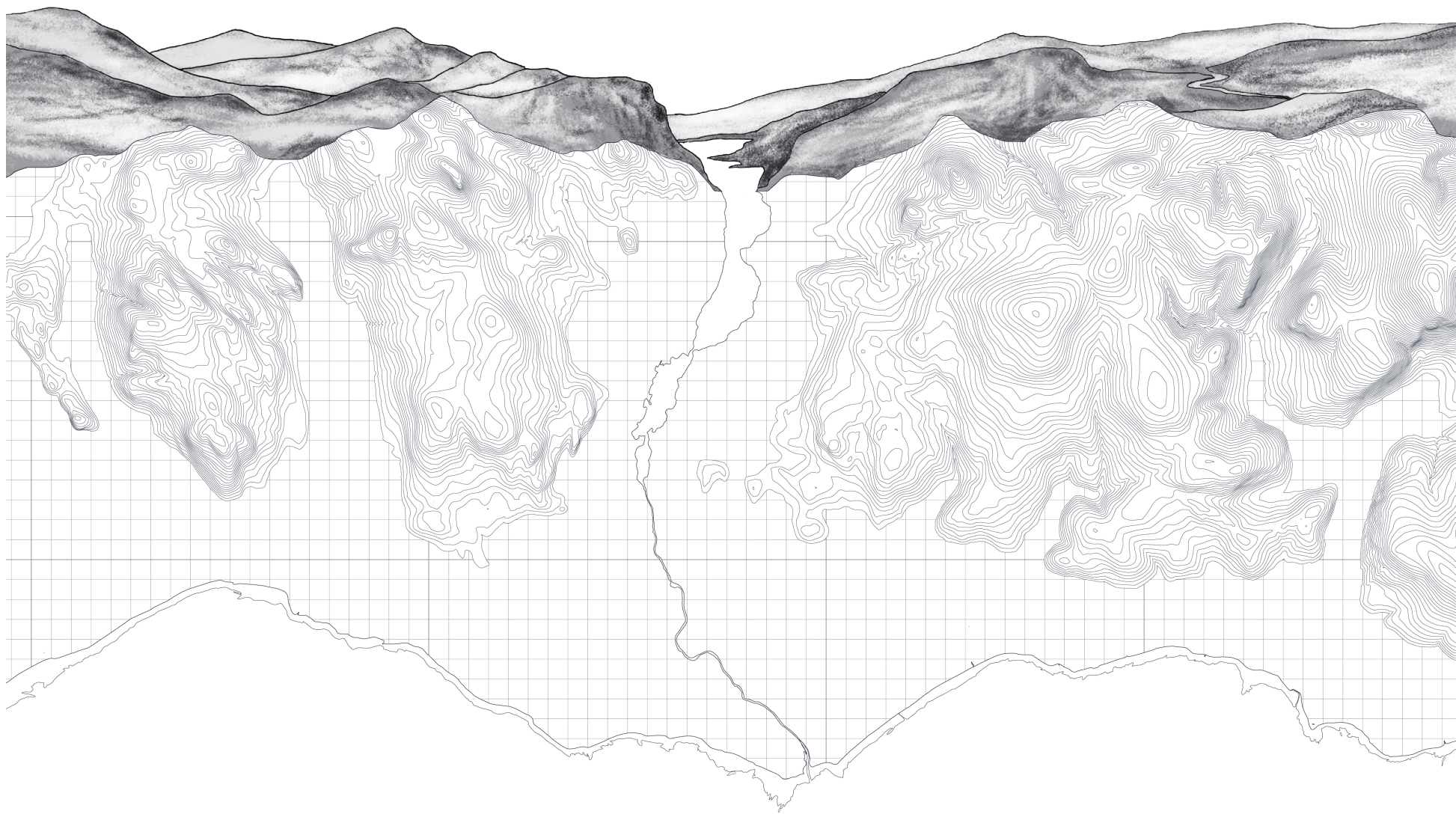
system schematic



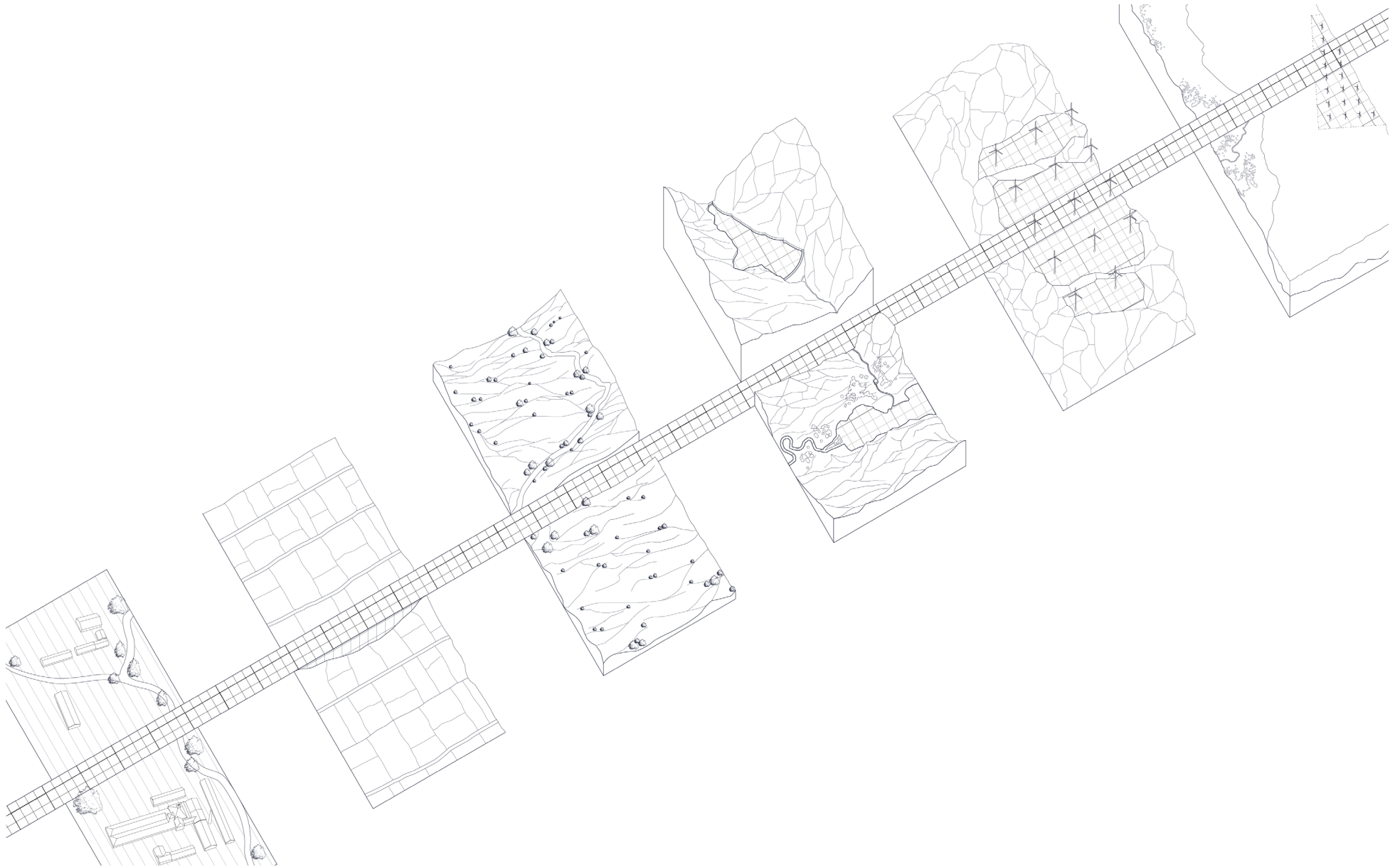
delivery points



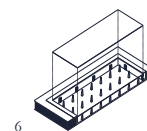
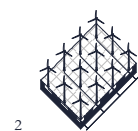
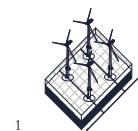
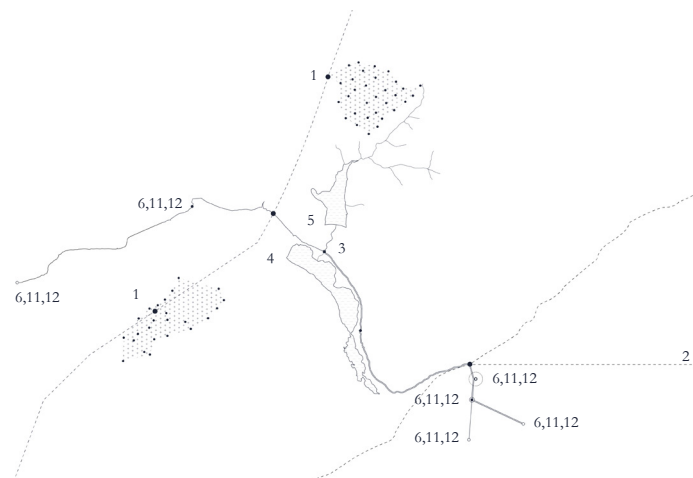
site choice



ground zero



landscape infrastructure



design syntax

type

topographical relation

material

electrical generators



fibre glass

electrical generators



fibre glass

electrical generators



concrete

vessel



organic

vessel

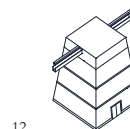
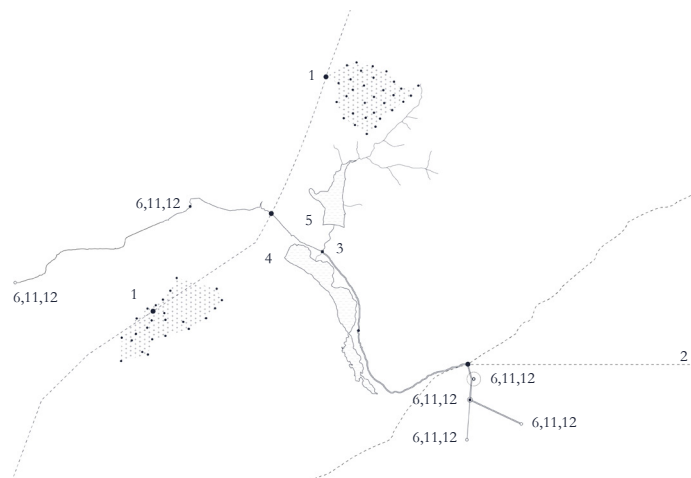


concrete

vessel



tile-lined concrete /
puddled clay



design syntax

type

topographical relation

material

conduit



stainless steel conduits
stone wall

conduit



stainless steel conduits
stone/concrete wall

conduit



stainless steel conduits
stone/concrete wall

auxiliary structure



stainless steel conduits
stone/concrete wall

auxiliary structure

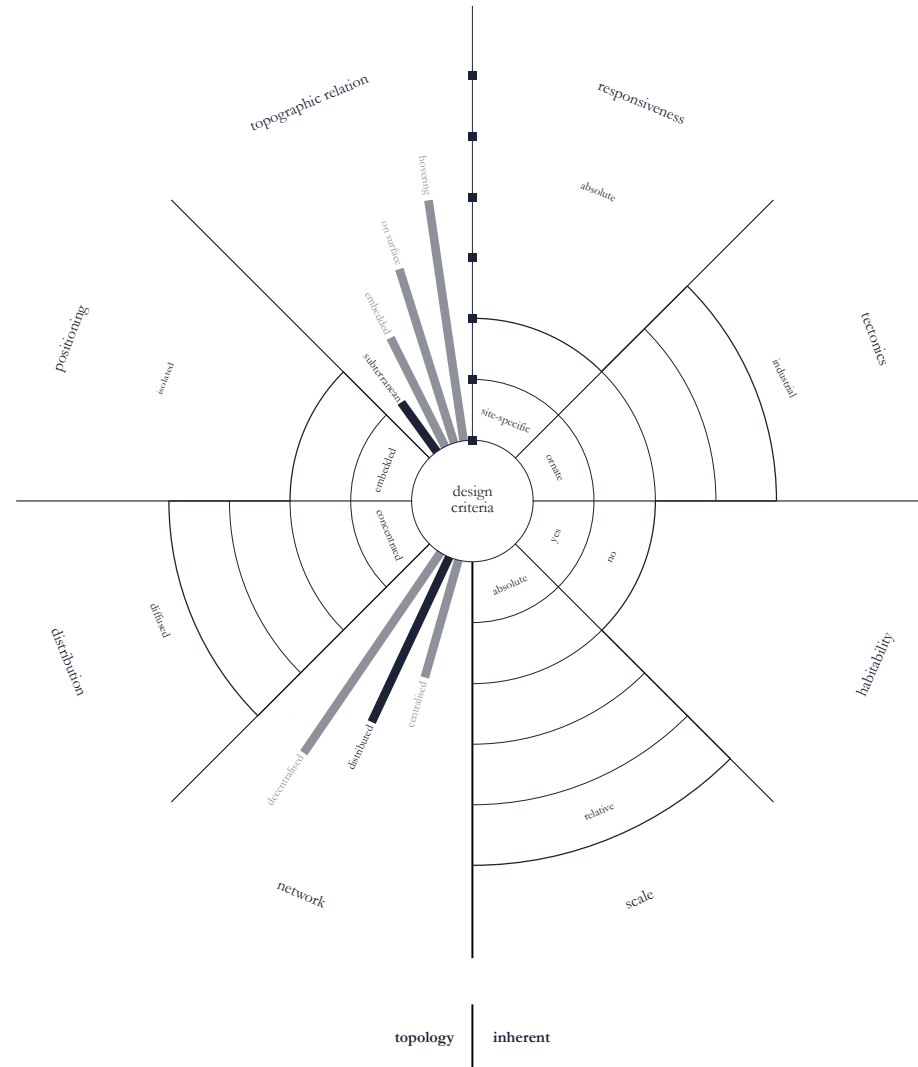
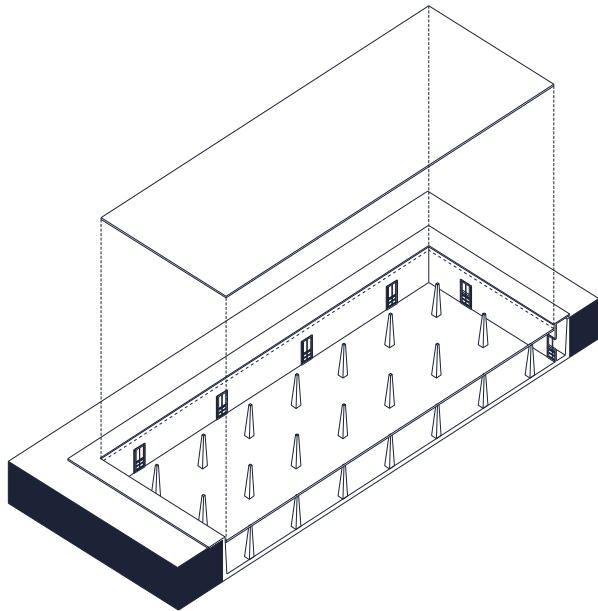


stainless steel conduits
stone/concrete wall

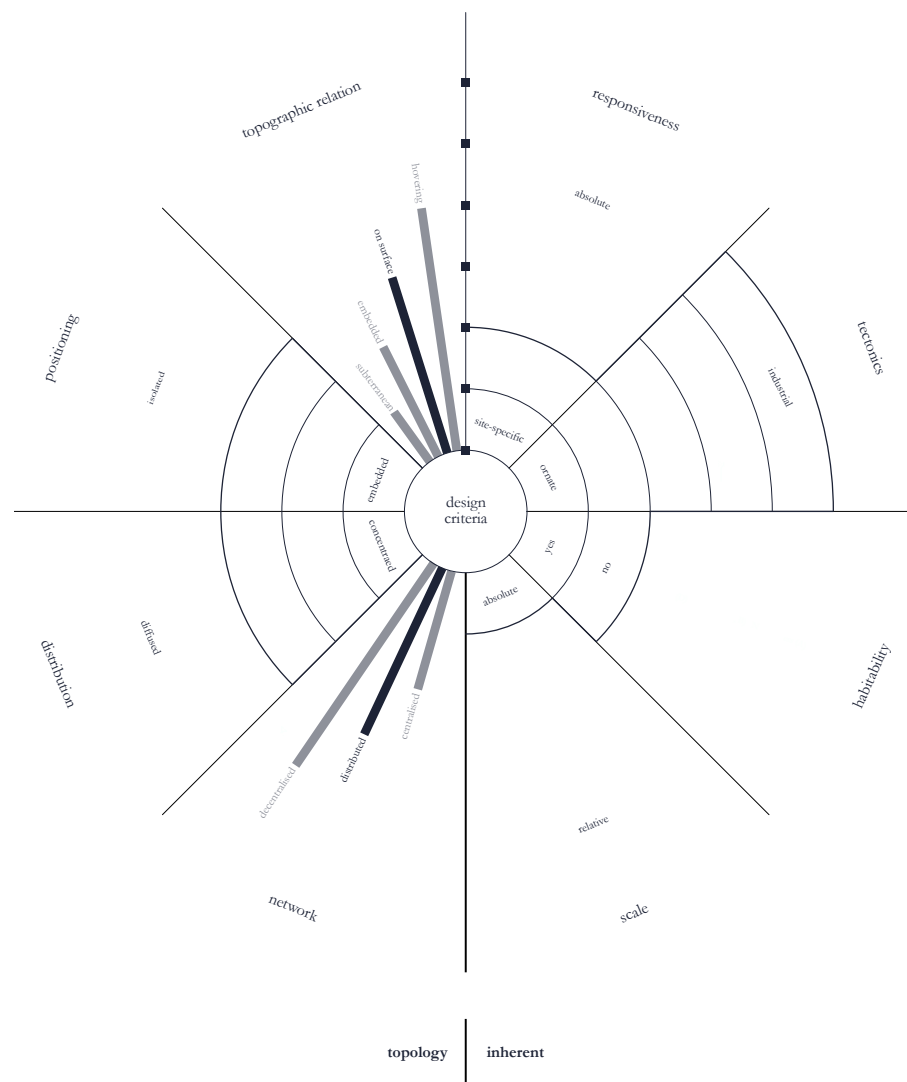
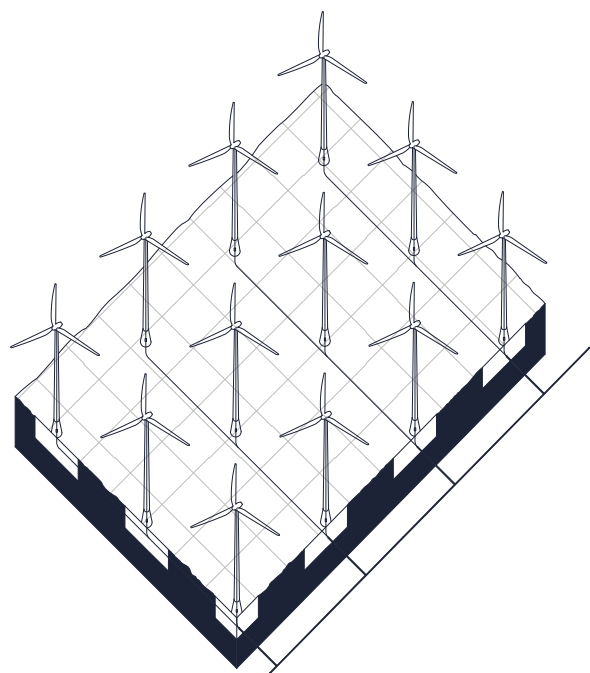
auxiliary structure



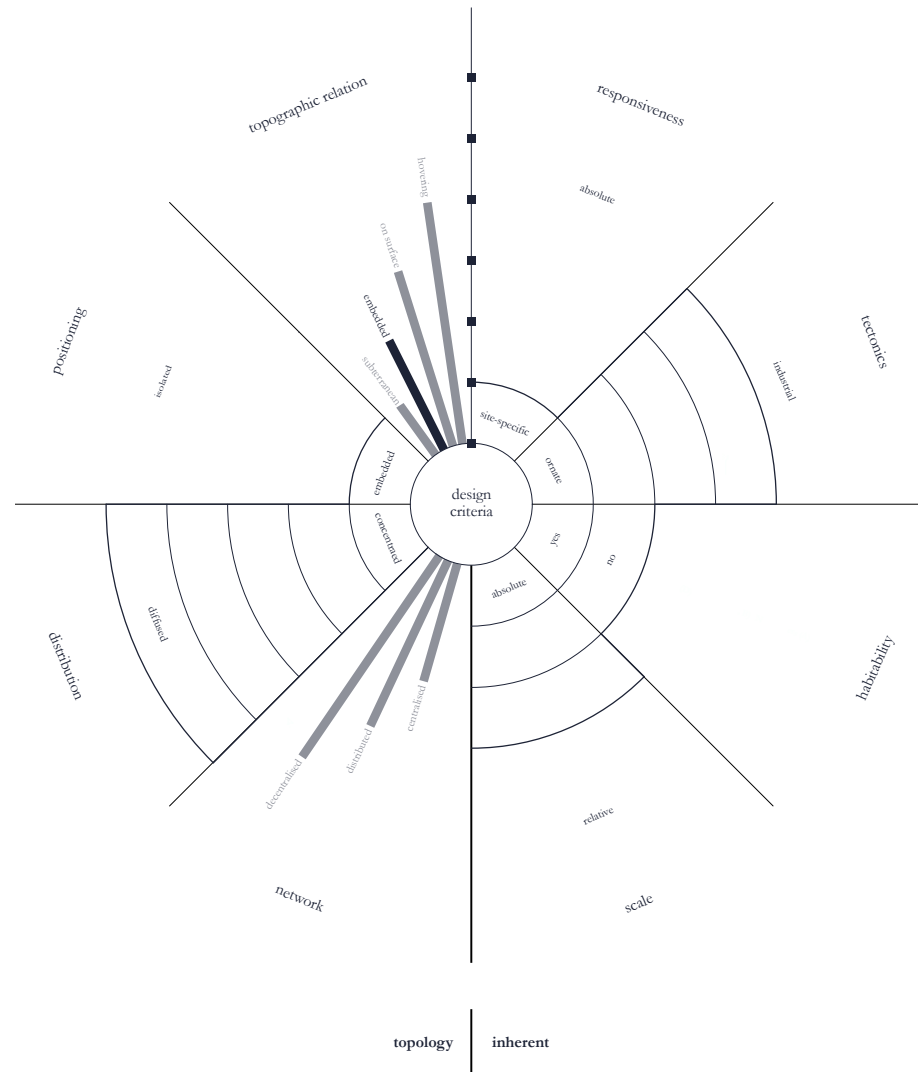
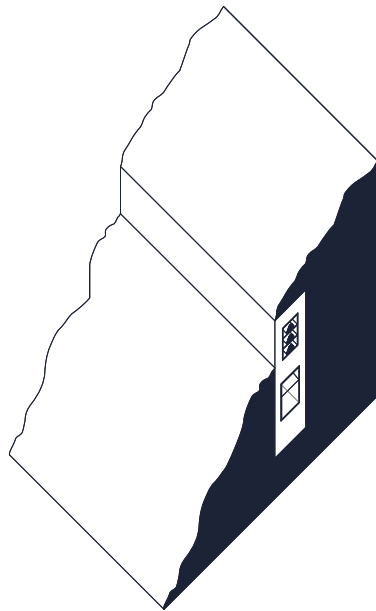
stainless steel conduits
stone/concrete wall



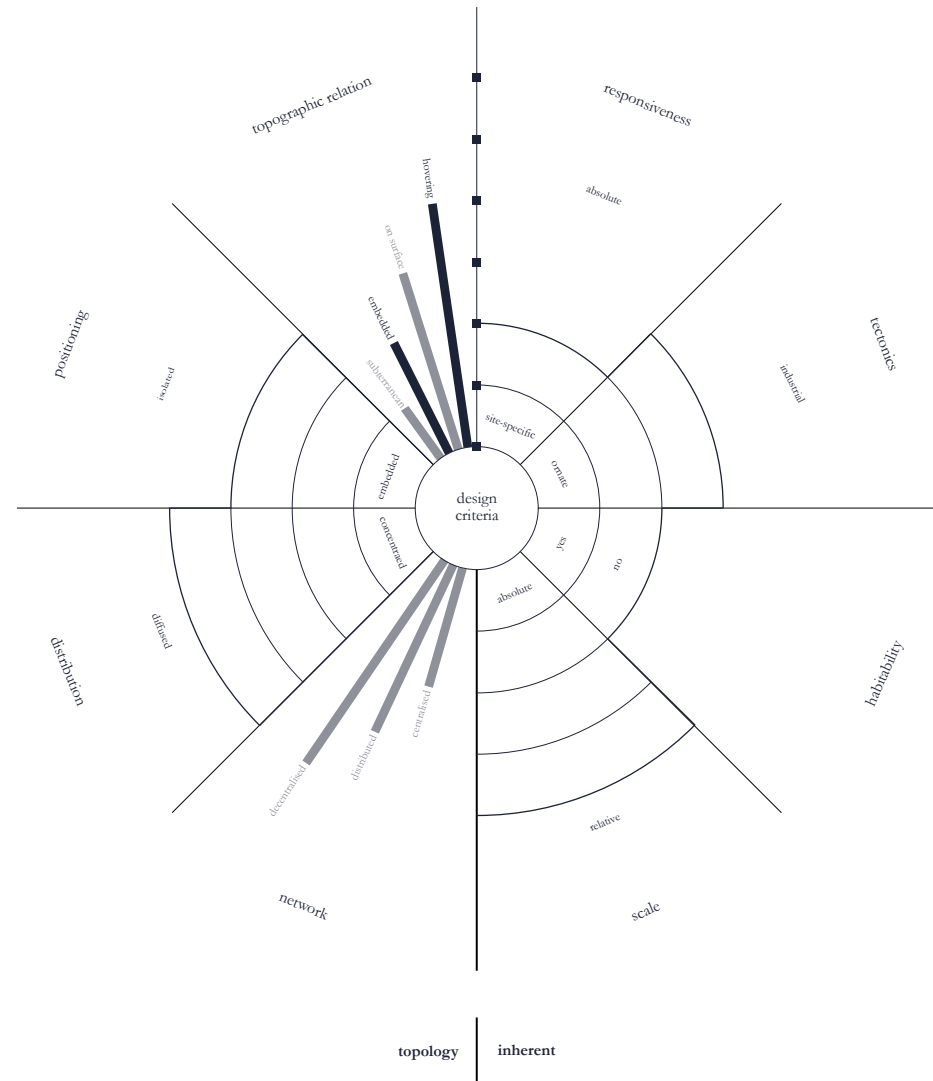
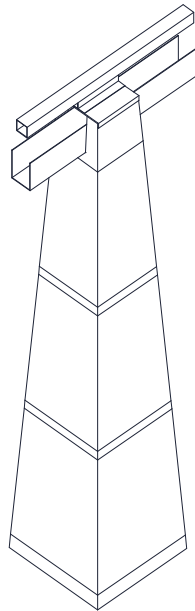
localised cistern
vessel | water storage



onshore wind farm
electrical generator

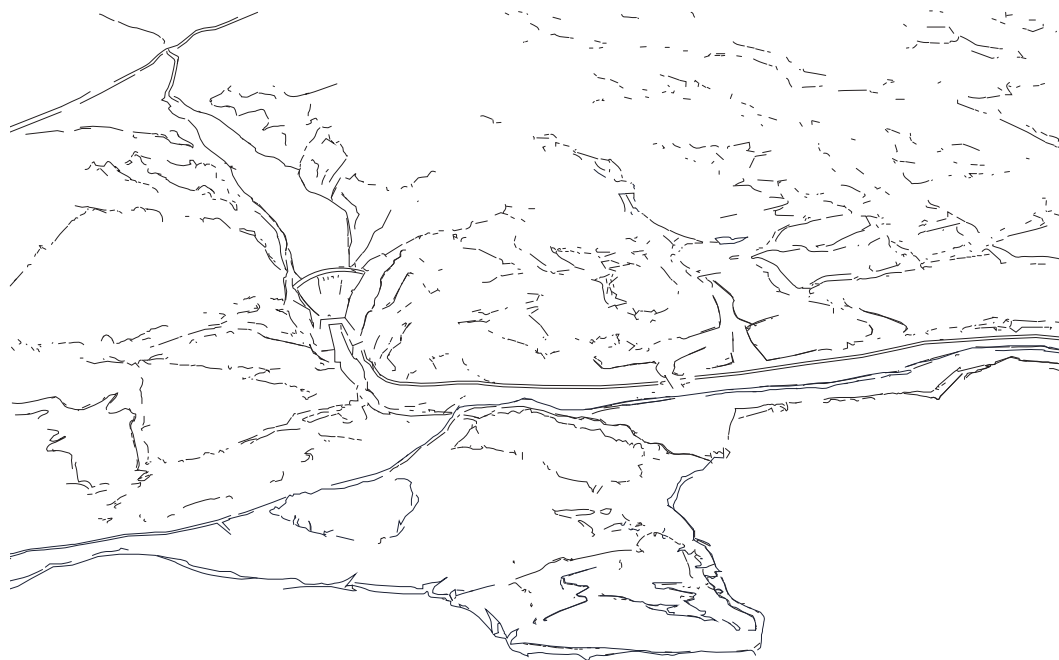


electro-aqueduct | embedded
conduit

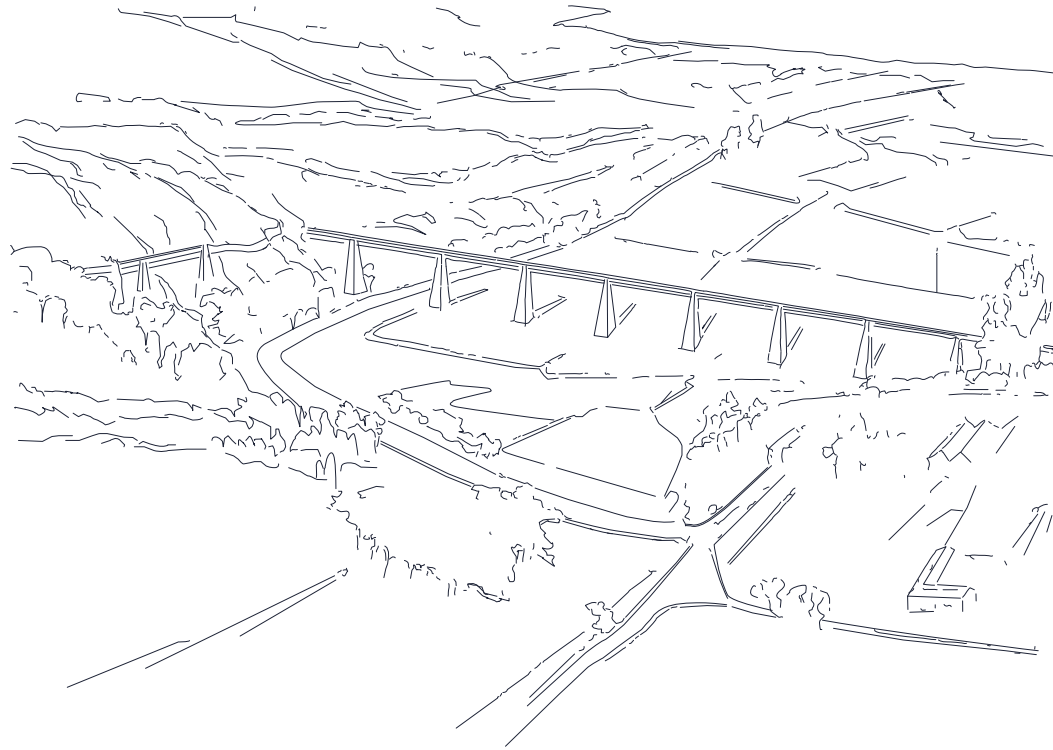


electro-aqueduct | typical column
auxiliary structure

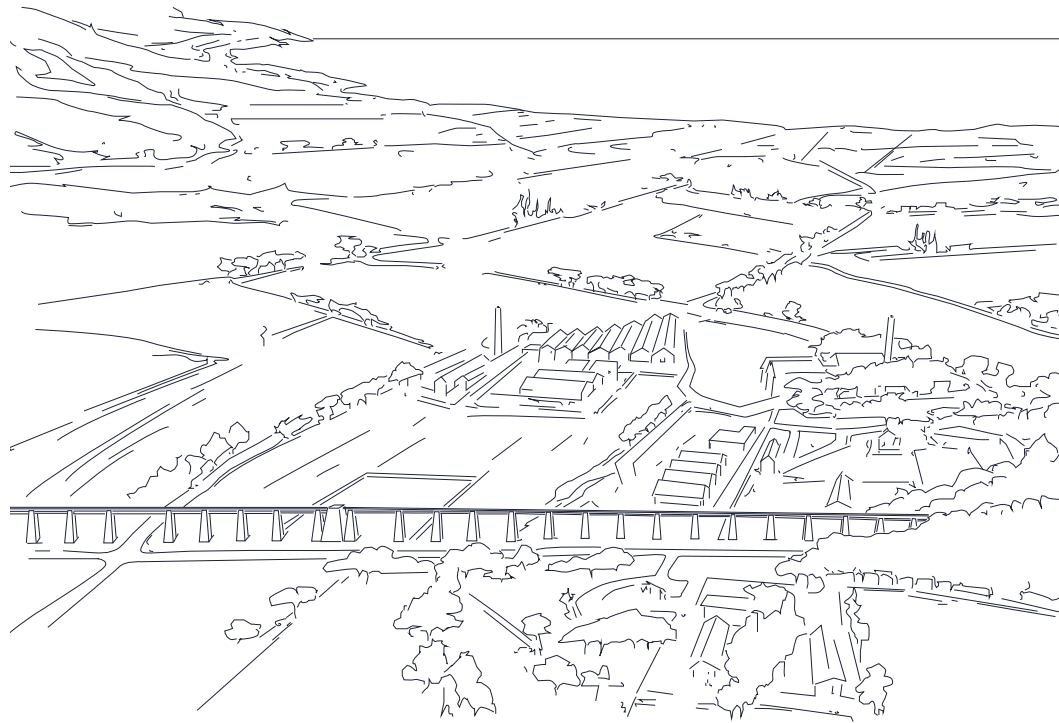
Impressions



reservoir + Loch Brora



Brora hills to Brora basin



passing over Clynelish



Allt an t-seana bhalie | facing east
View of dammed reservoir



Coffin walk | facing south
View of embedded wall using local stone



Electro-aqueduct | facing west
View taken from East Clyne Road

Existing Condition





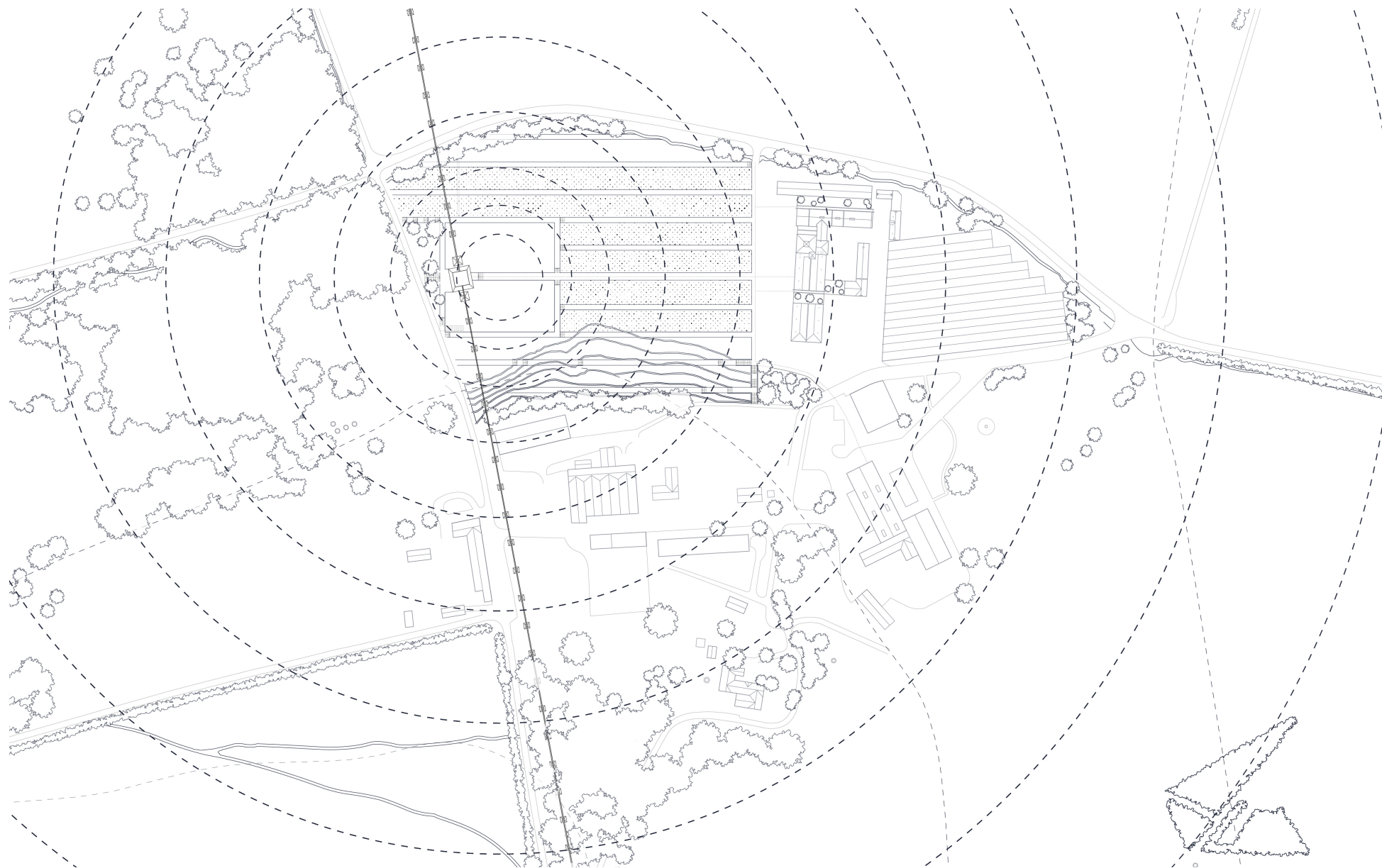
existing site plan



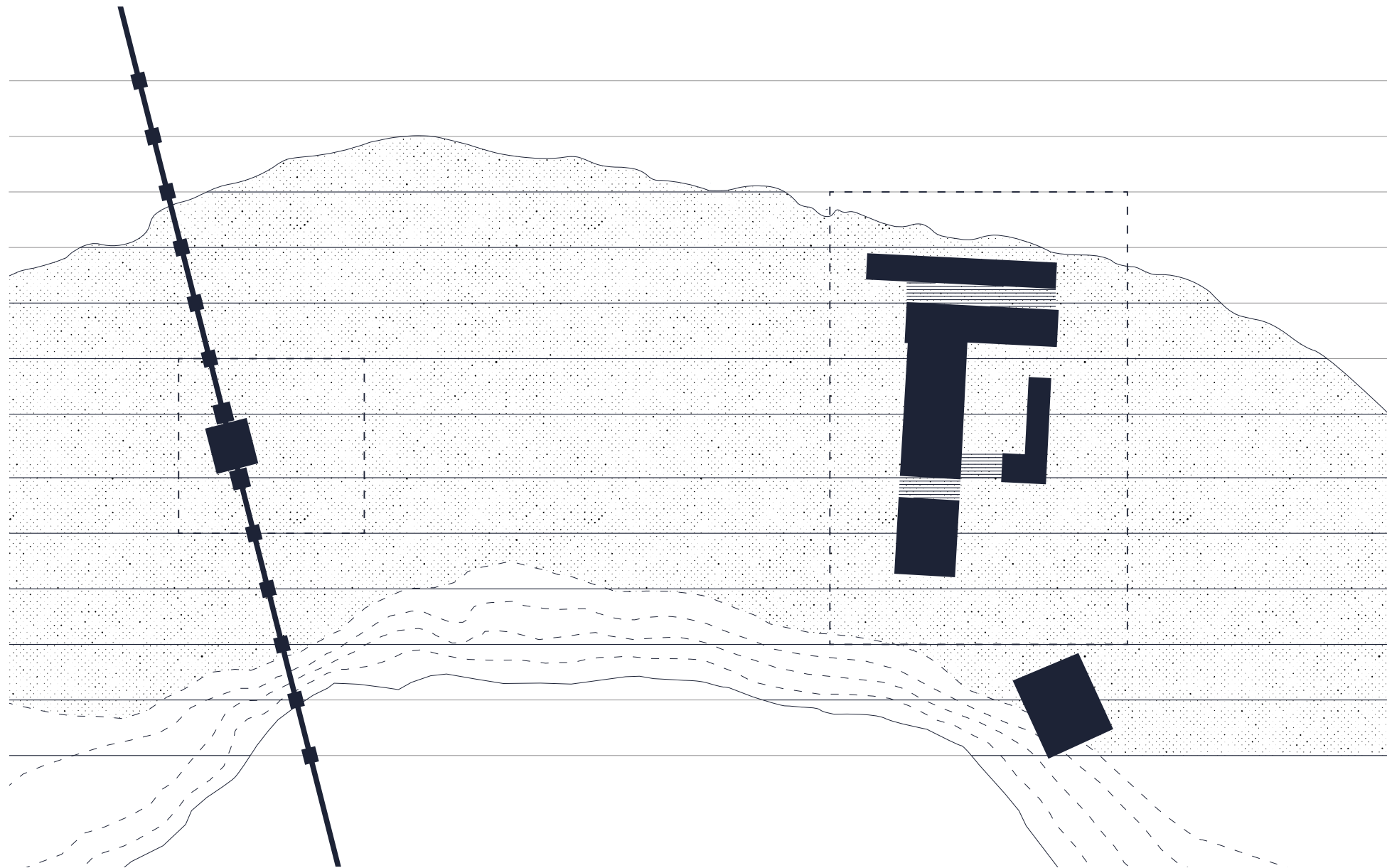
Proposal



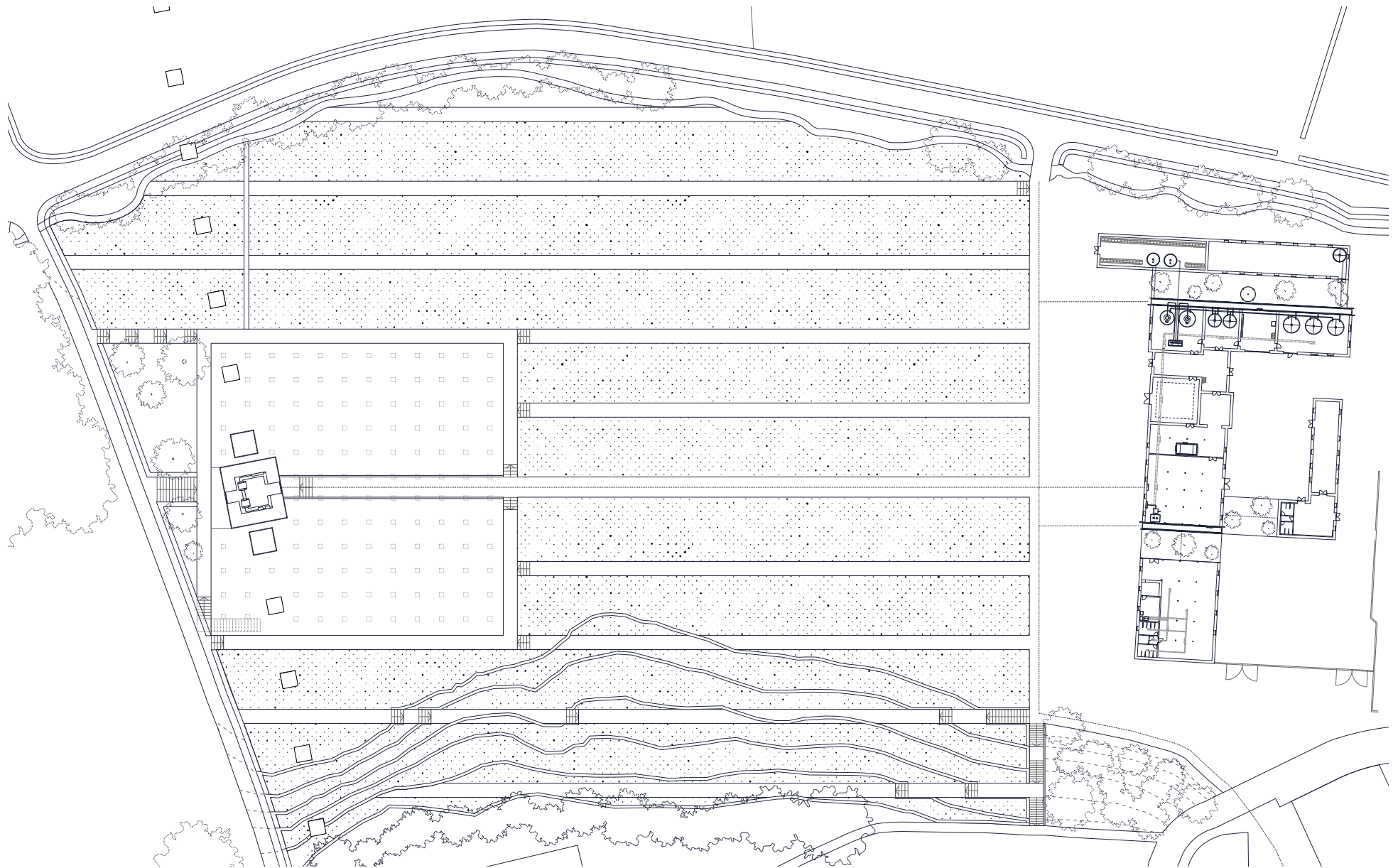
proposed site plan



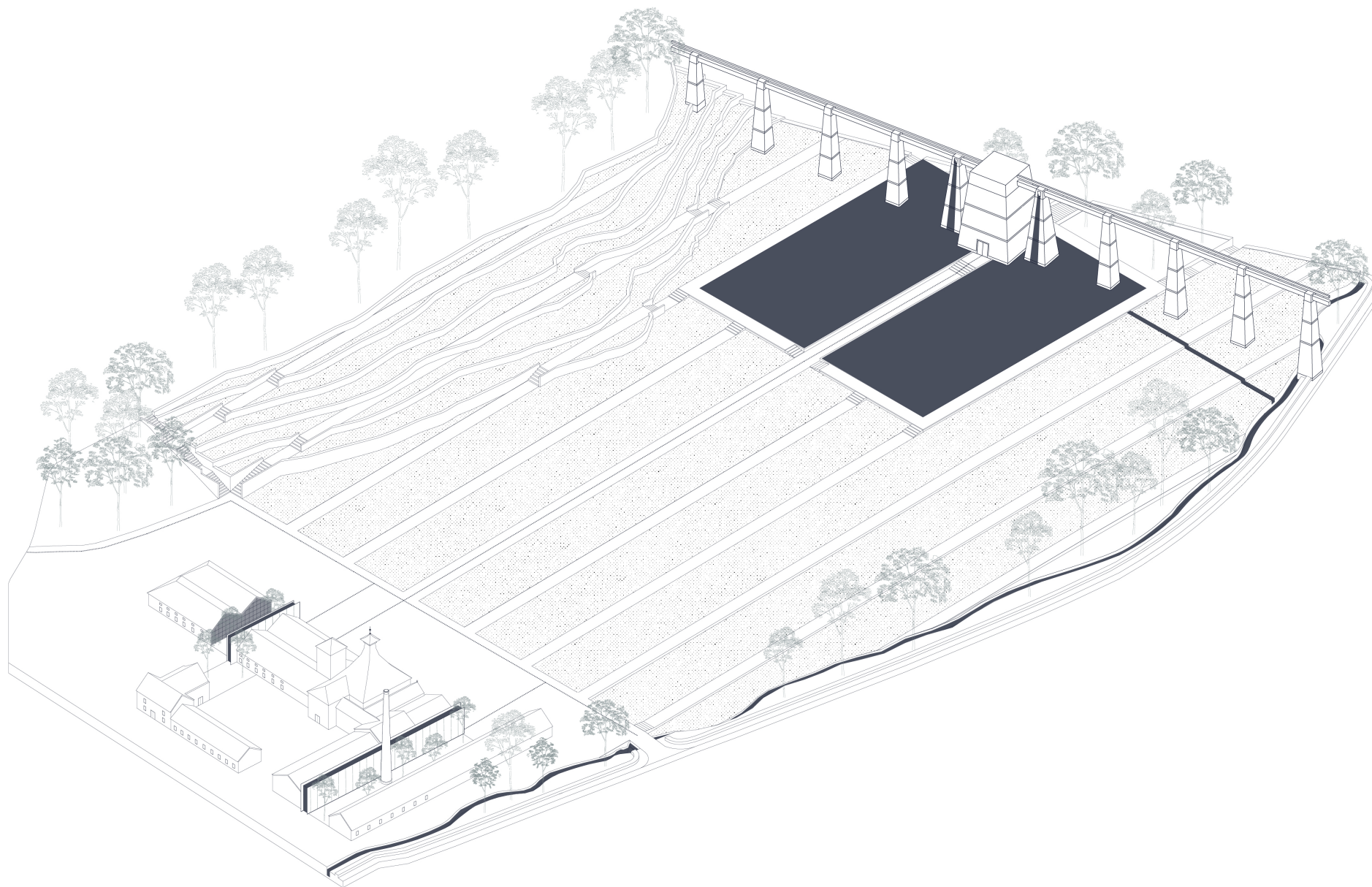
node expansion



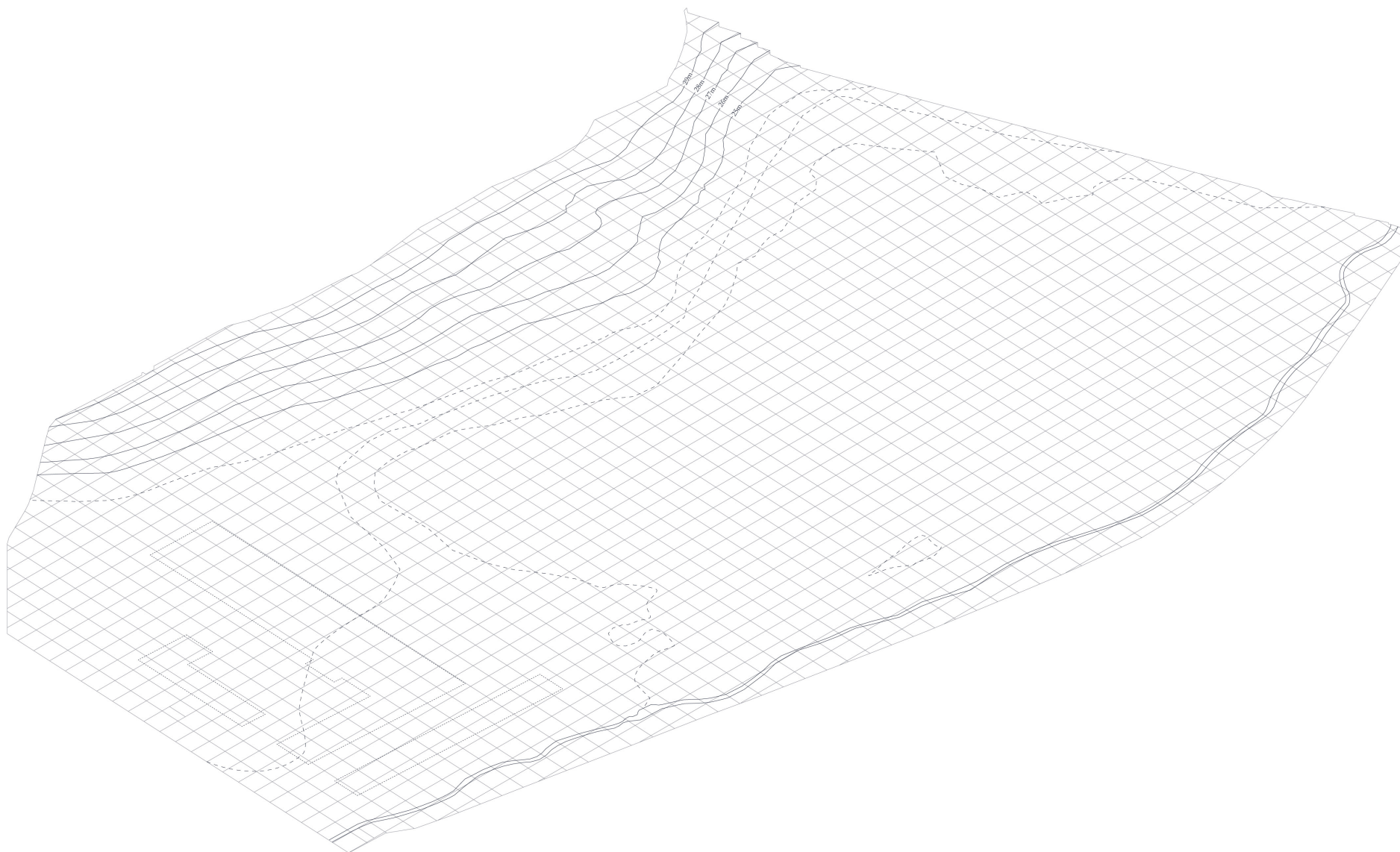
delivery field



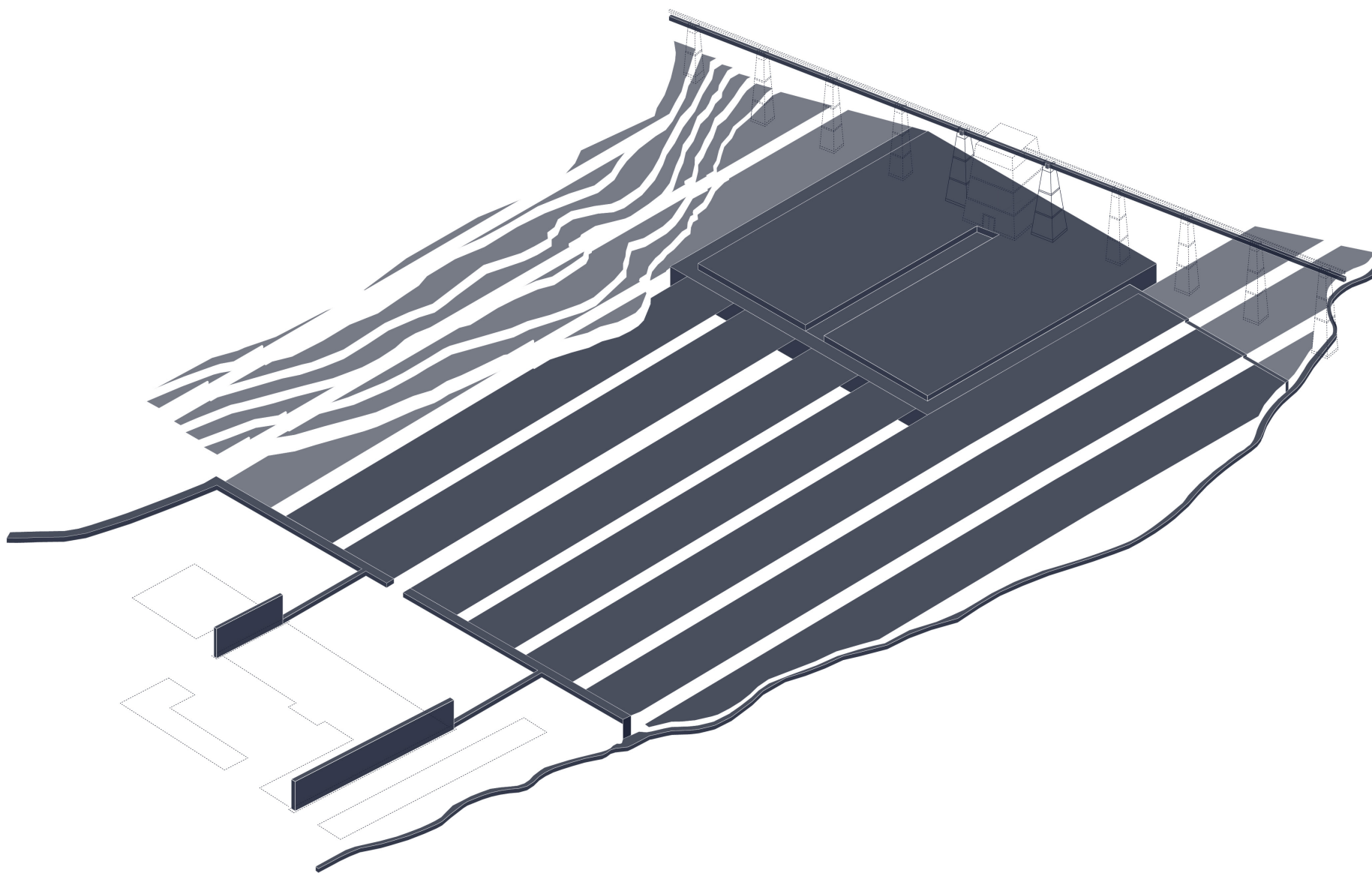
ground floor plan



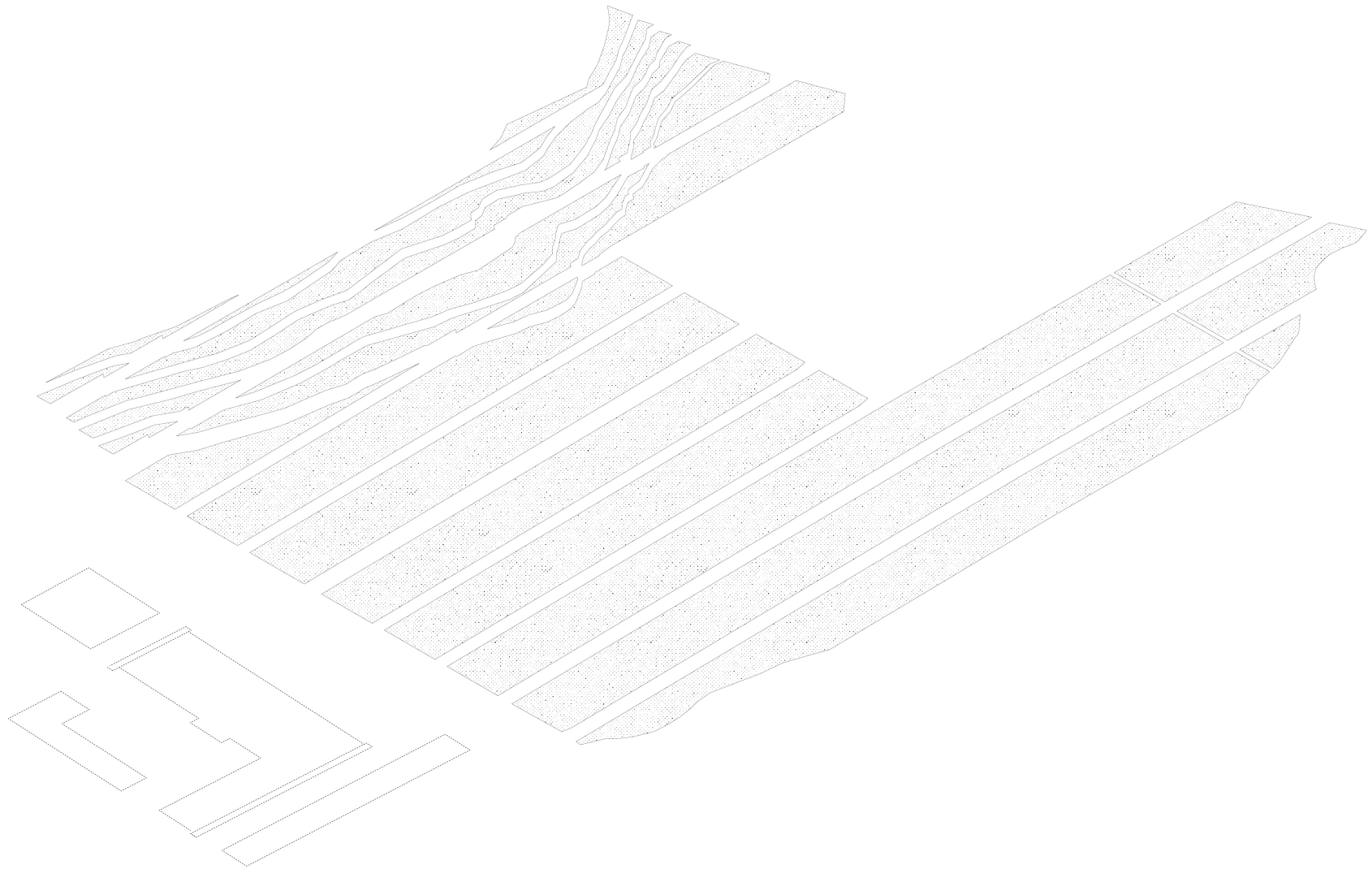
proposed axonometric



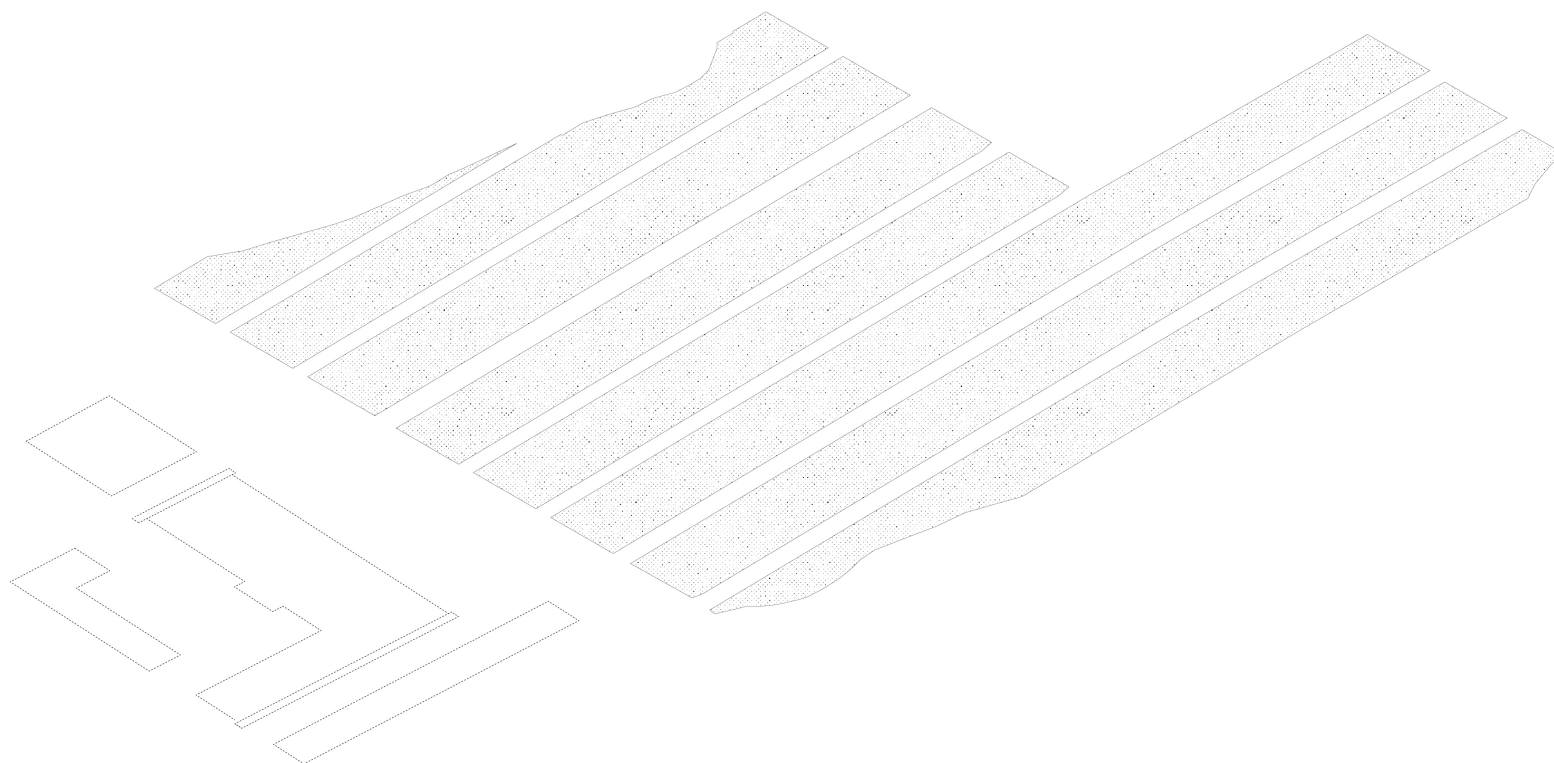
existing topography + distillery footprint



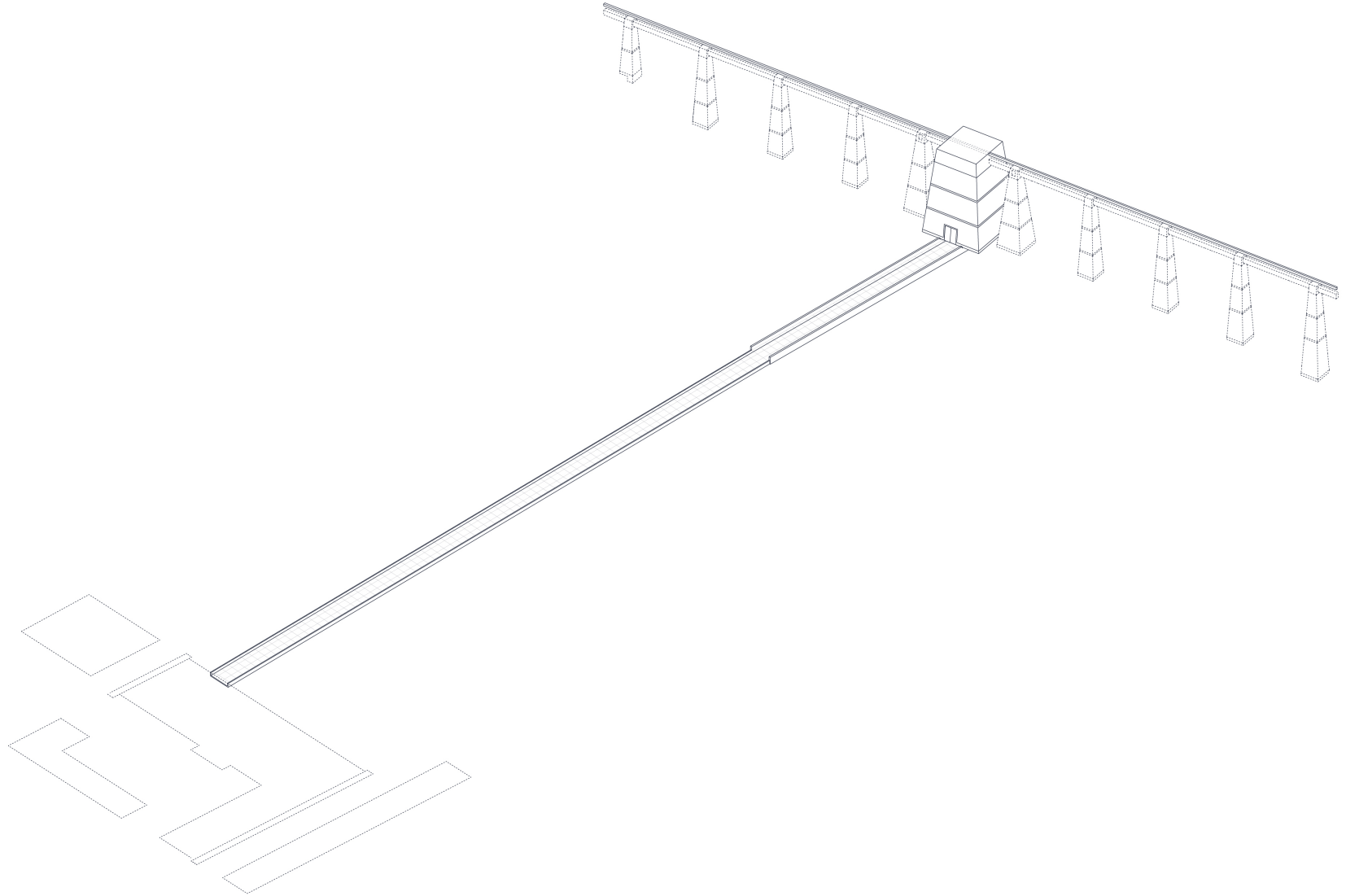
fresh water delivery



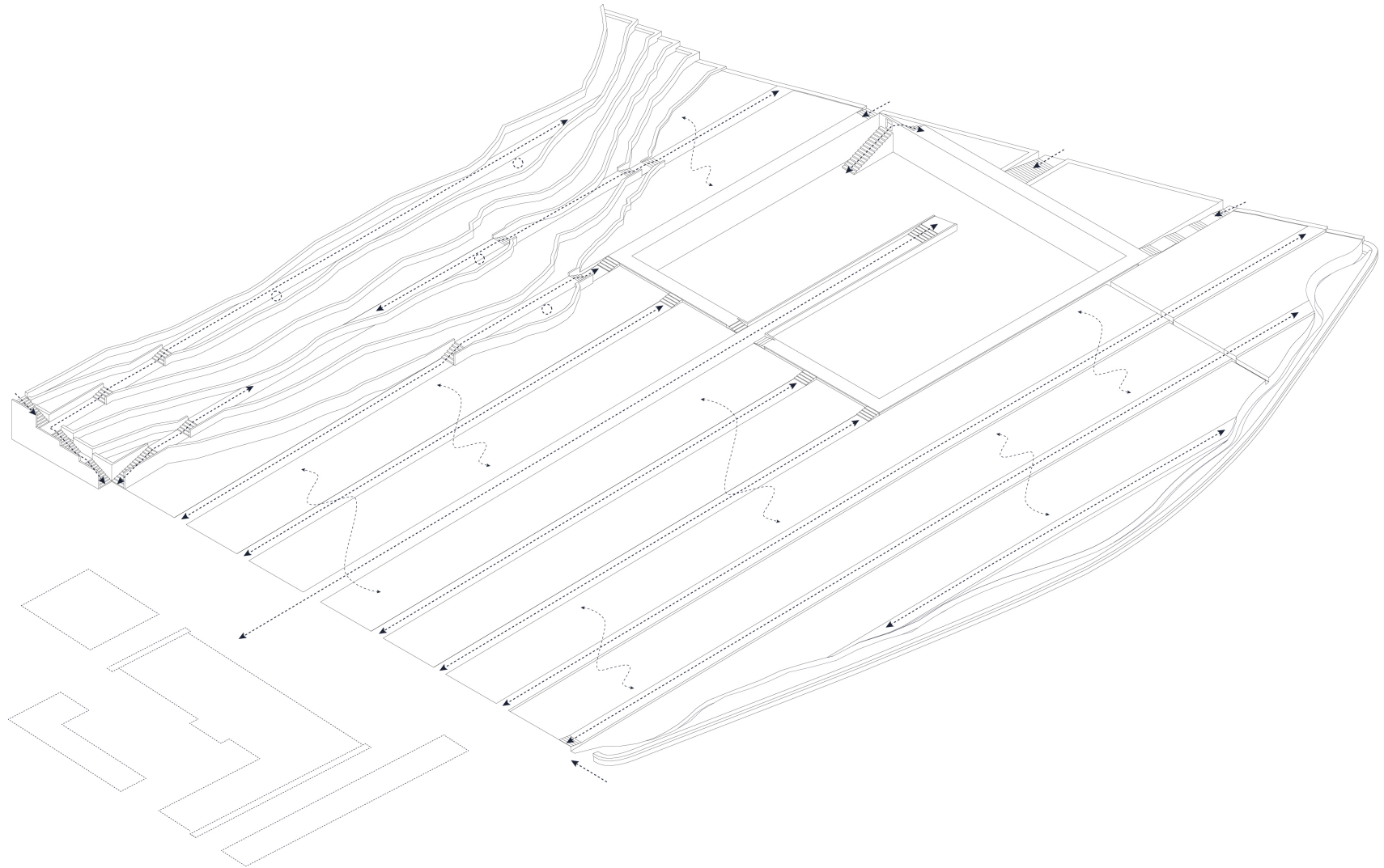
water purification horizontal flow reed beds | rainwater + cistern fed



water purification horizontal flow reed beds | cistern fed (drought)



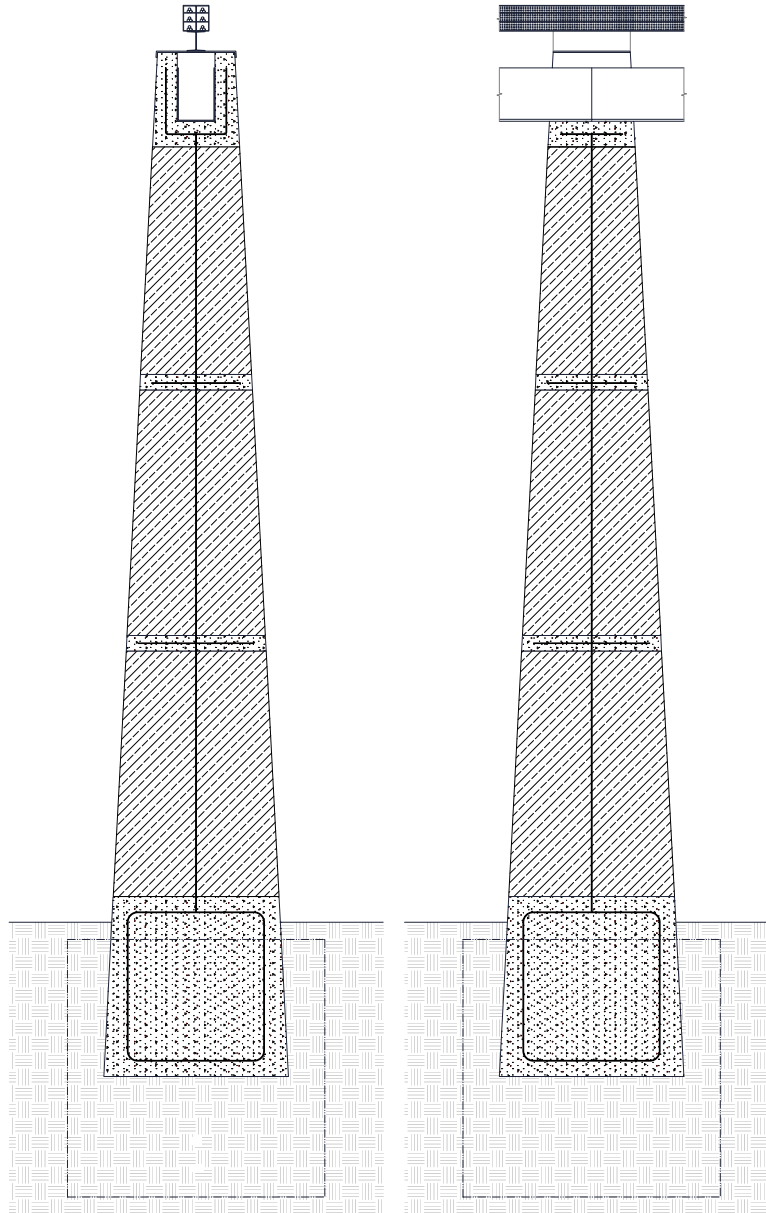
electricity delivery



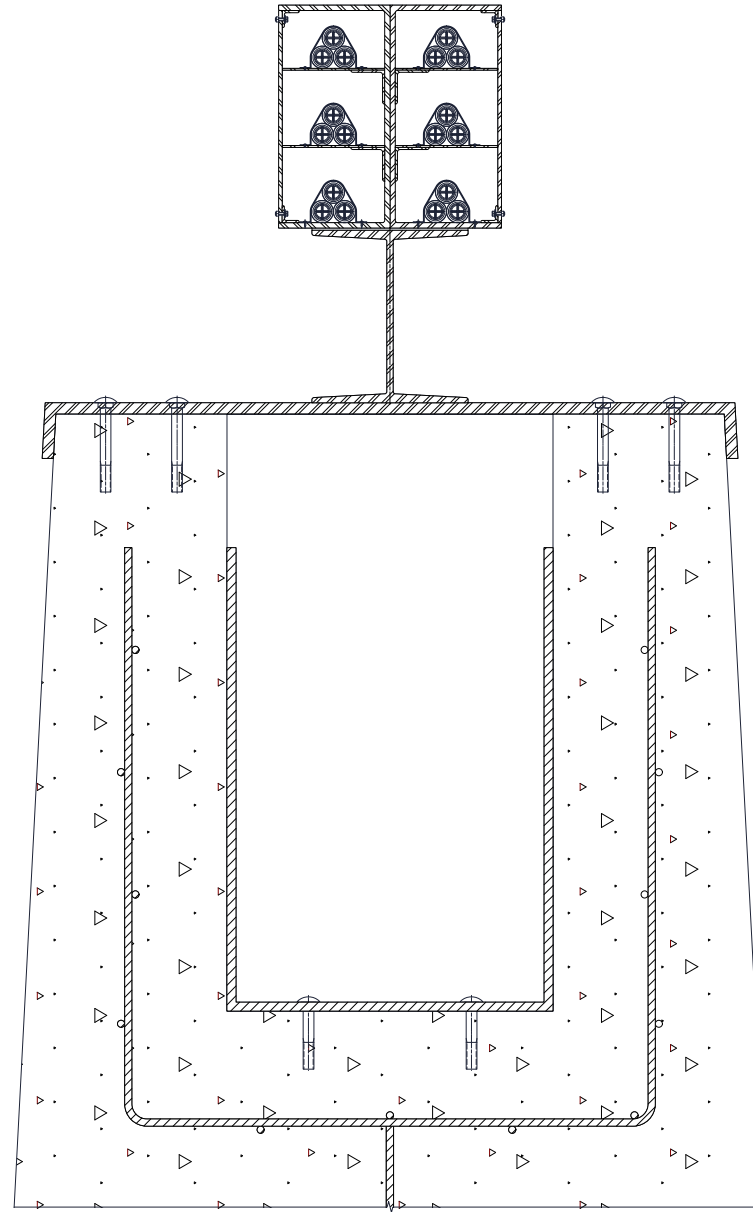
movement flows



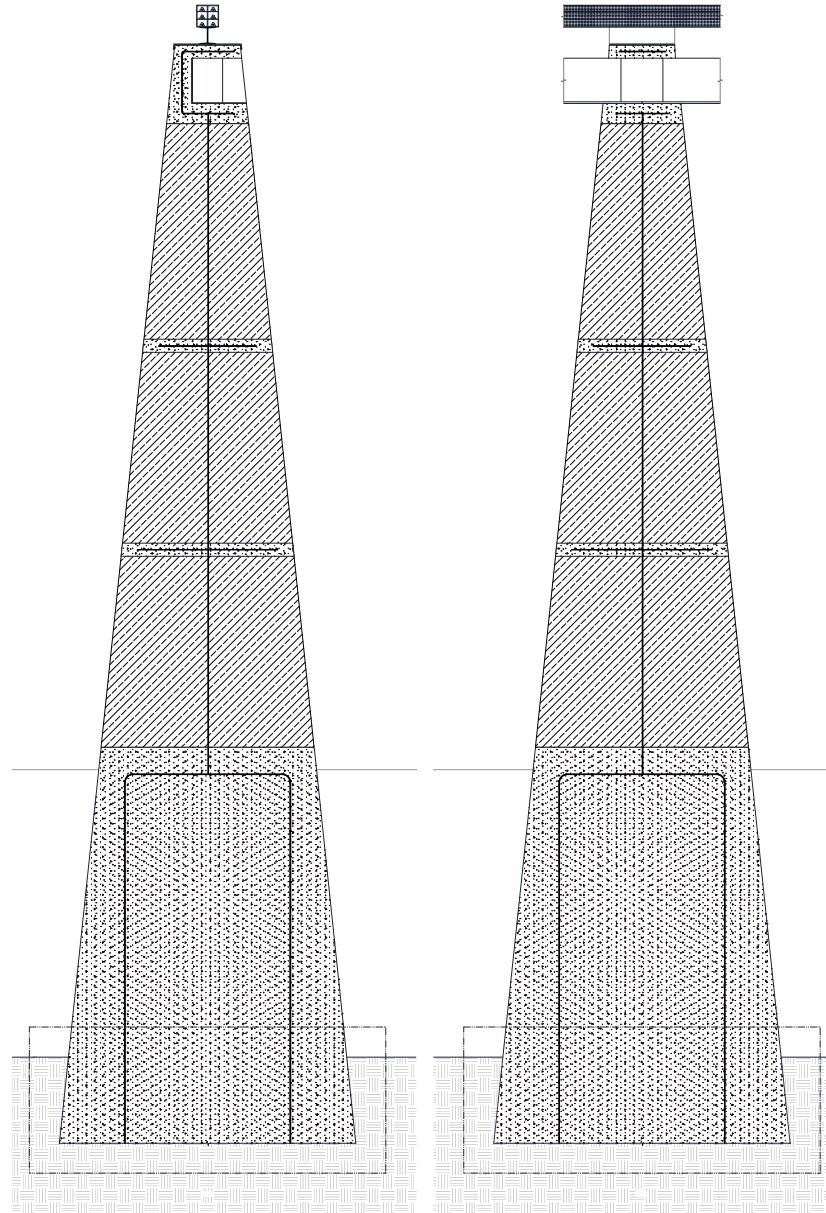
Salvataggi di Centri Storici Italiani (Italia vostra)
Superstudio



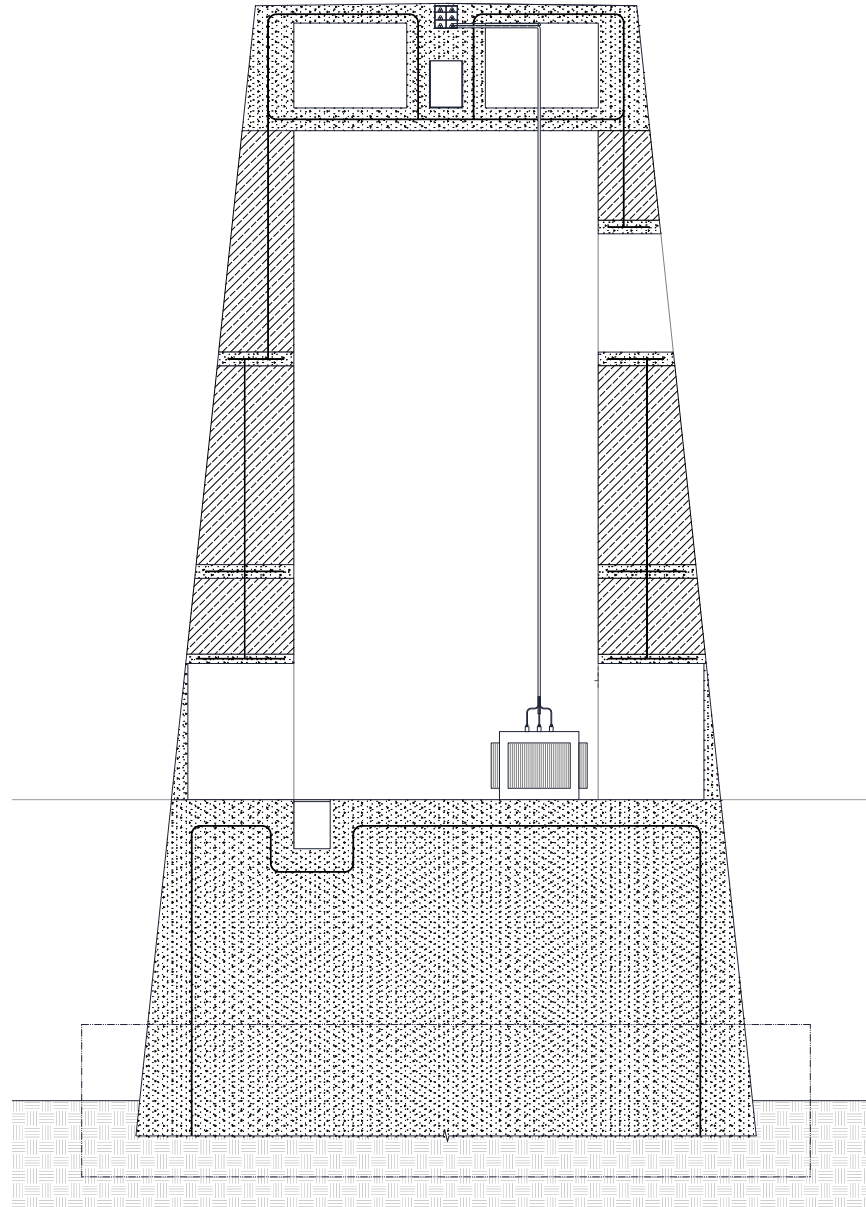
typical column detail



typical column head detail

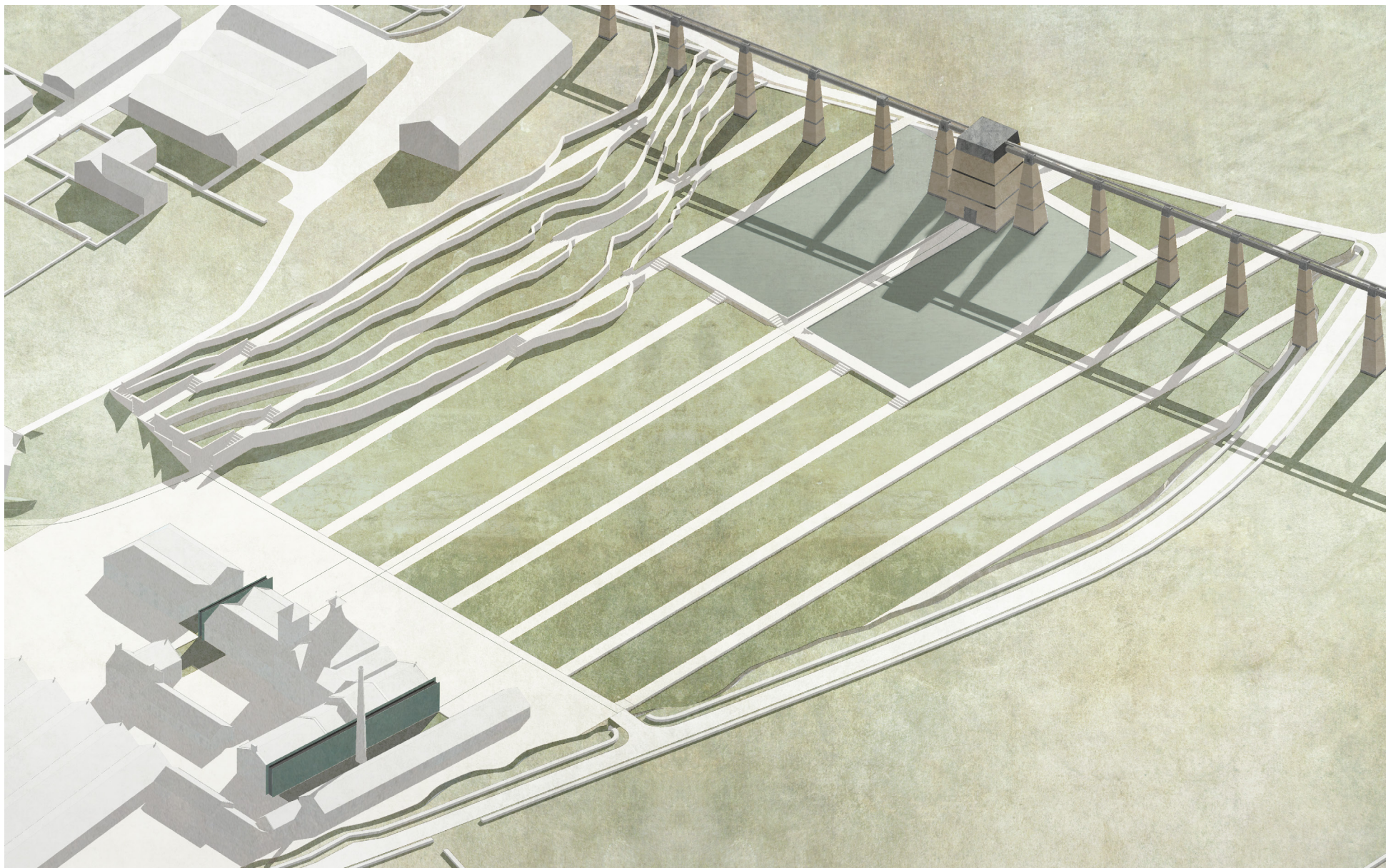


water delivery column



inhabited column | sub-station

Impressions



intervention axonometric



aqueduct | cistern
main path over cistern pond and embedded electrical channel, looking west towards sub-station entrance



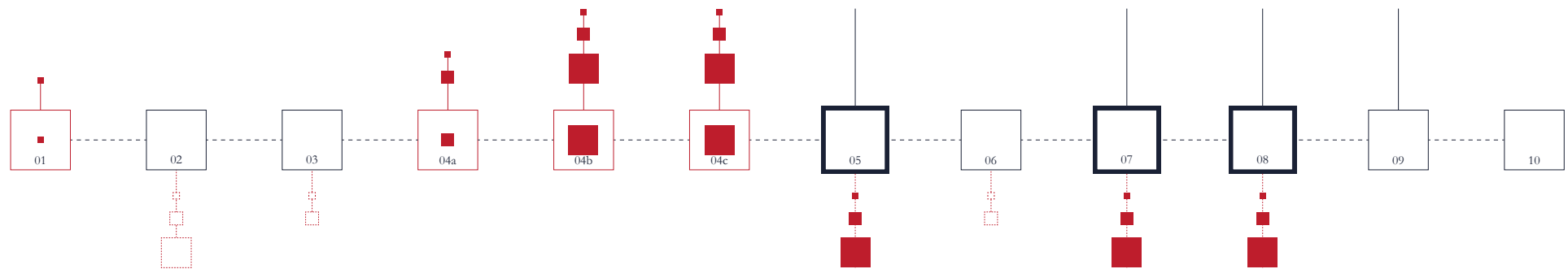
cistern | reed beds
cistern edge over control chamber, looking north towards Brora hills



reed beds | embedded delivery channel
main path between reed beds, looking east towards Brora distillery

Existing Condition

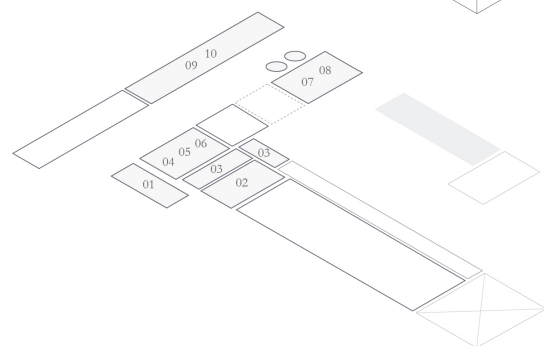
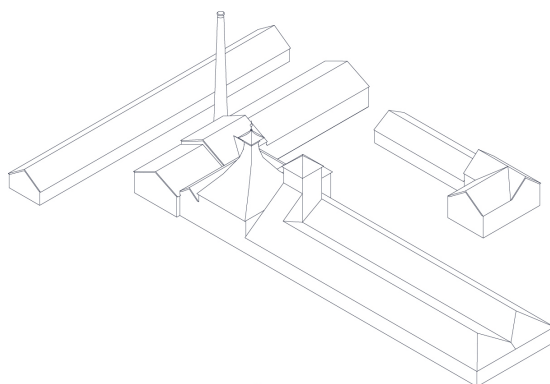
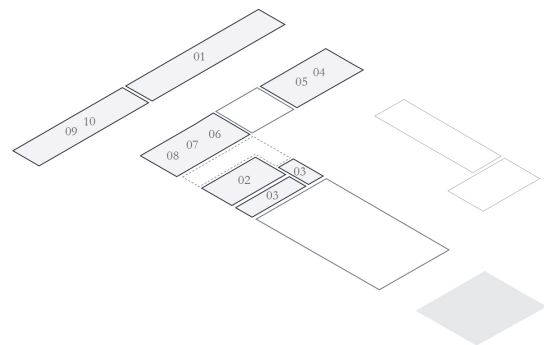




- dry whiskey-making process
- whiskey-making process with chilled coil cooling
- whiskey-making process with hot water
- on-site purified water source
- hot water
- hot air
- DHW + space heating
- existing linear spatial process
- cold water supply
- hot water supply
- lost by product
- recovered by product

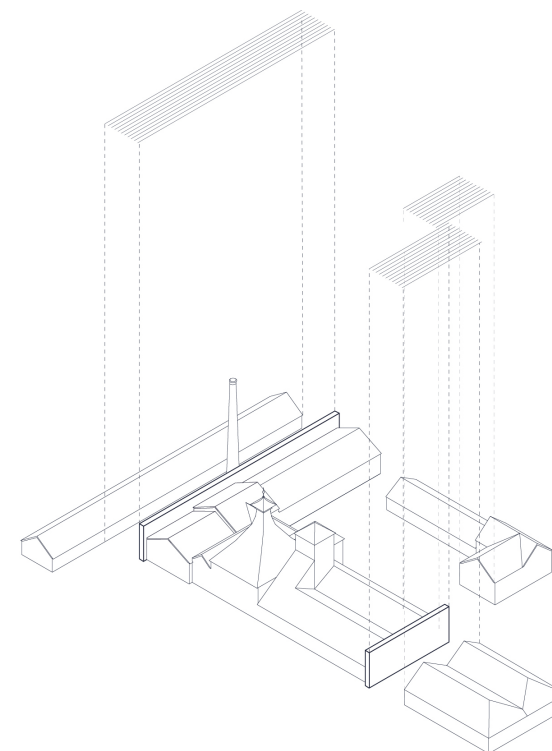
existing linear typology

Proposal

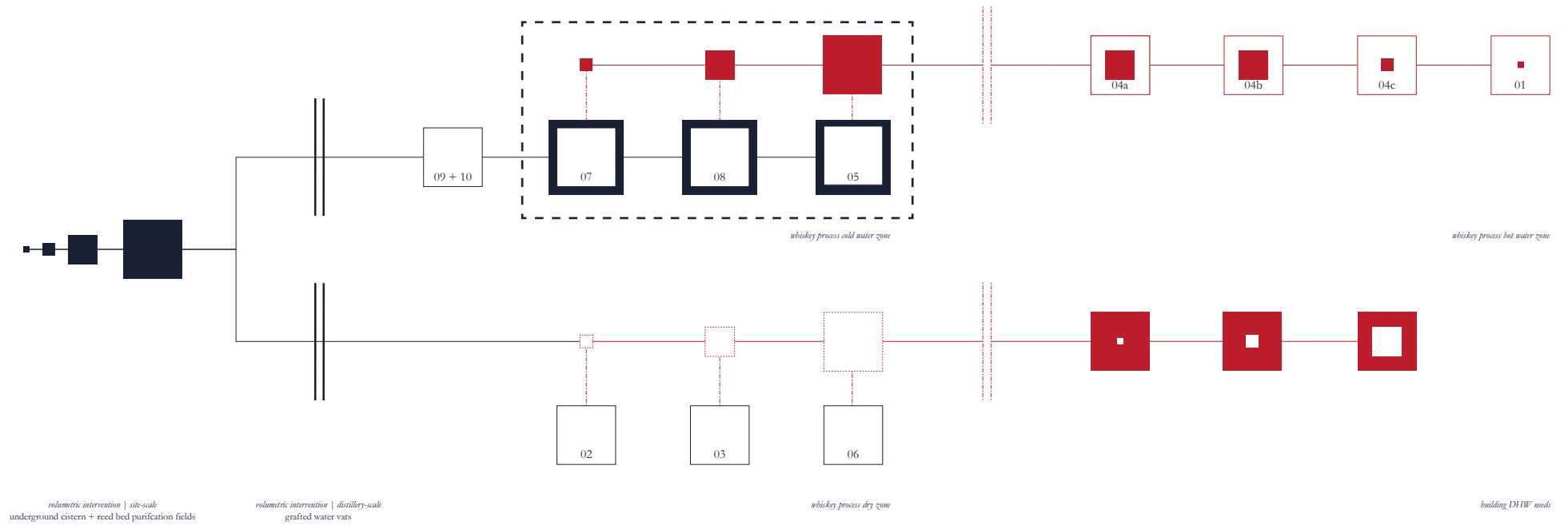


programme rearrangement

subtraction + water vat addition

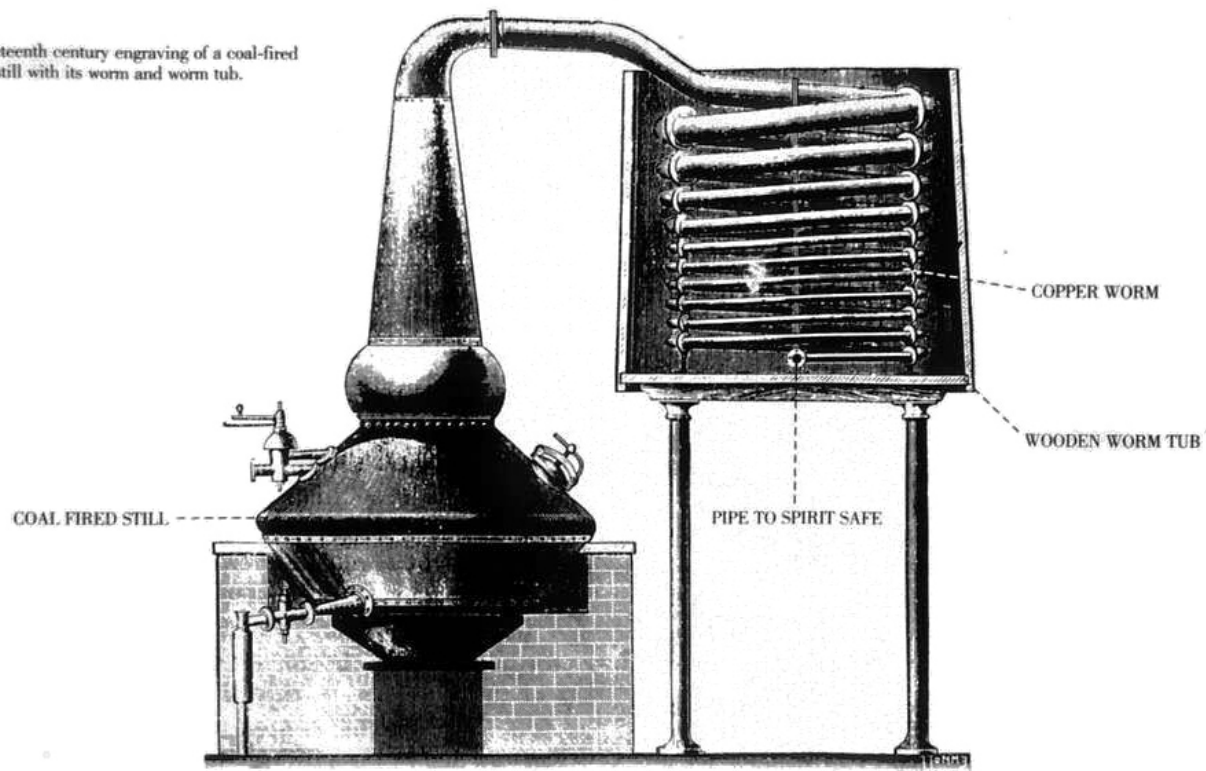


courtyards

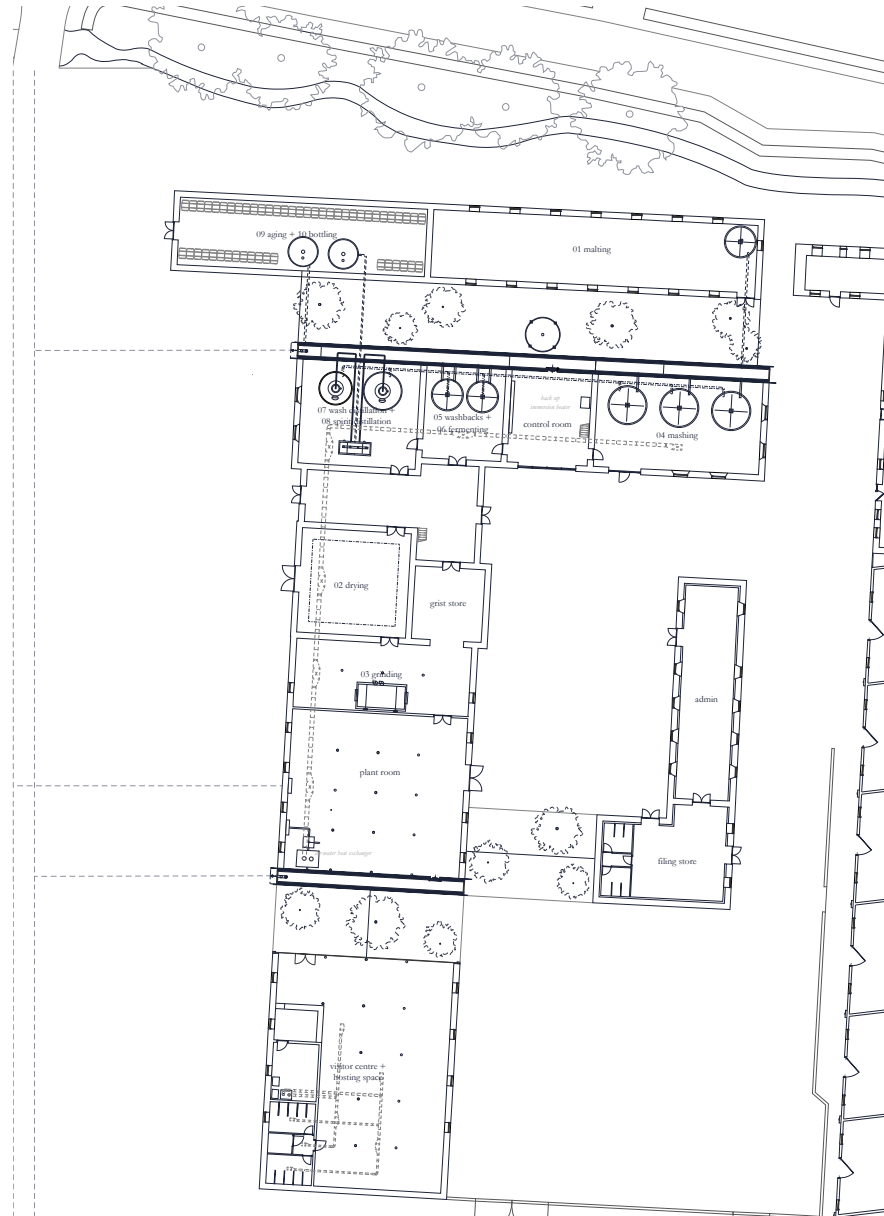


proposed typological subversion

A nineteenth-century engraving of a coal-fired spirit still with its worm and worm tub.

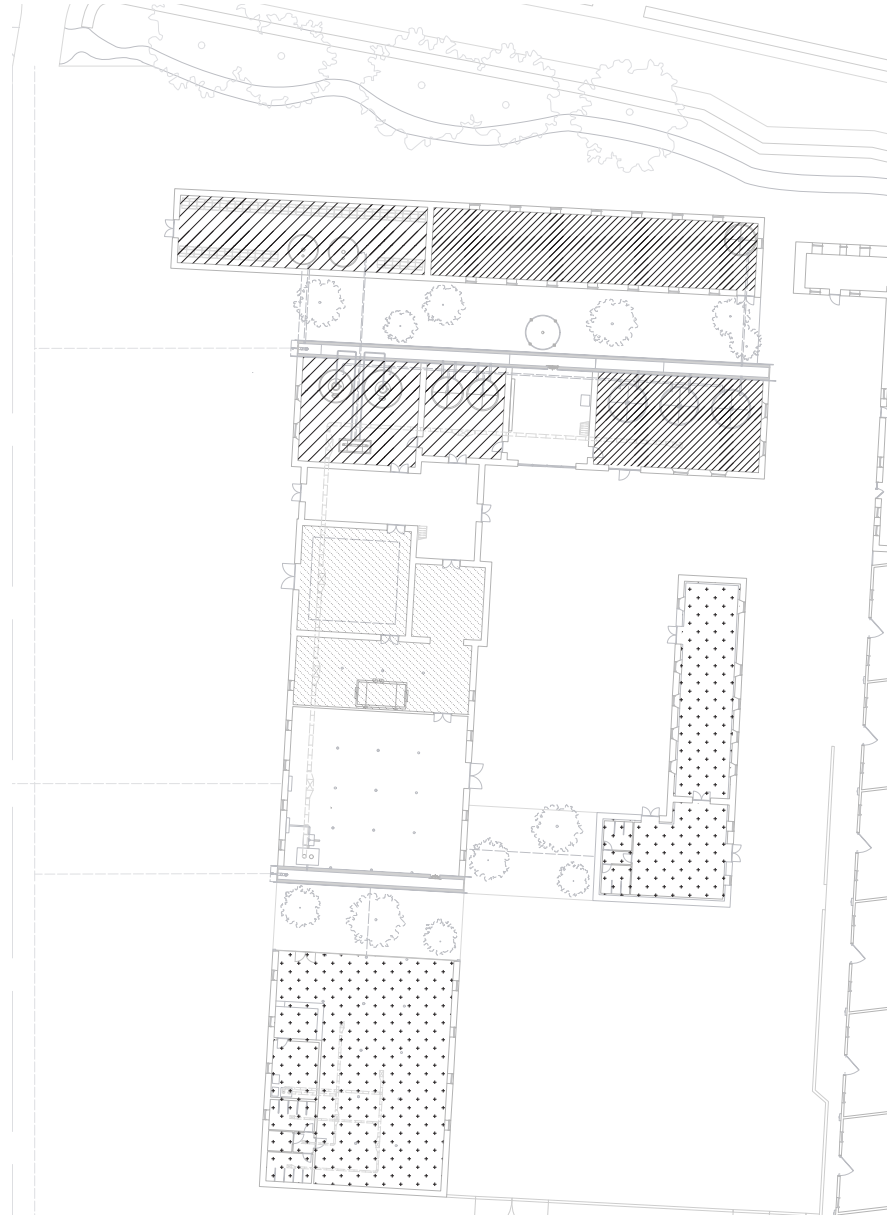


typical still condenser | worm tub

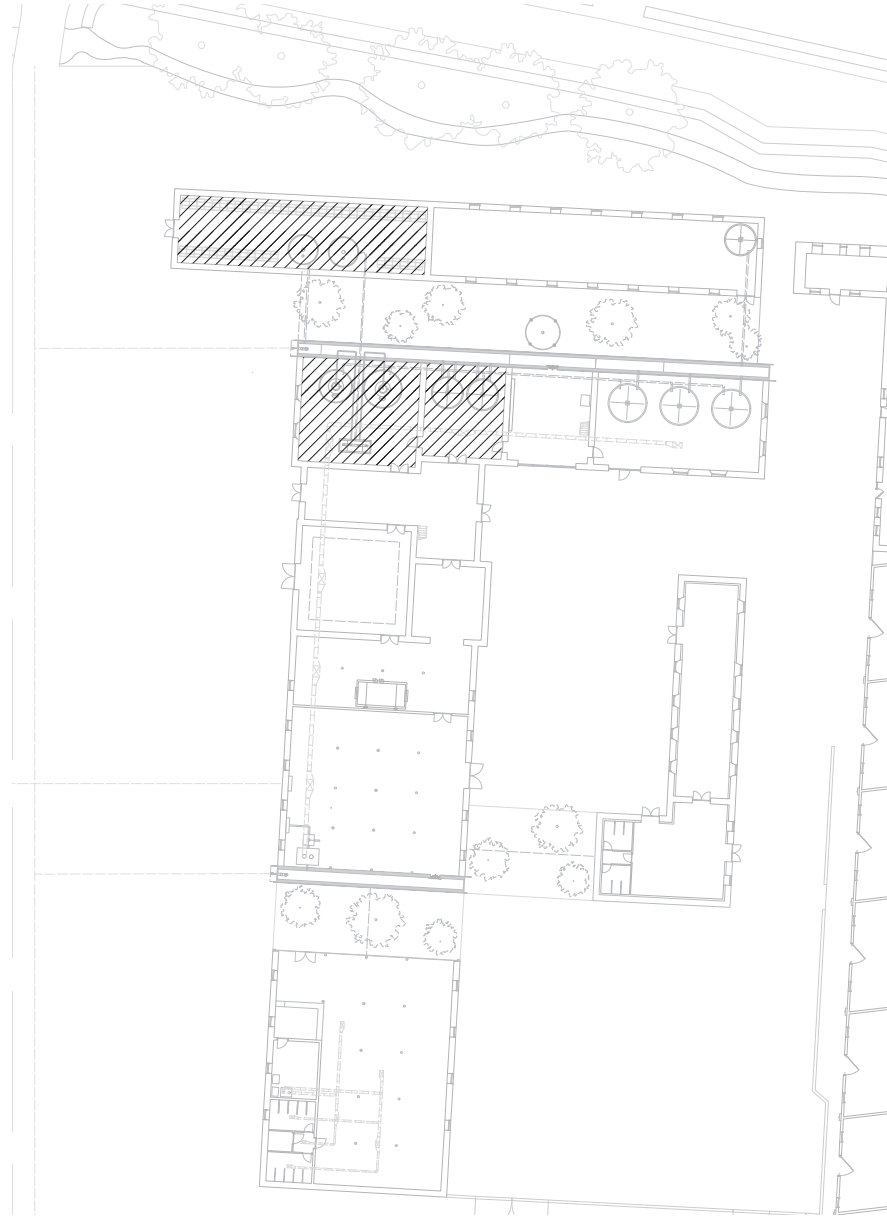


proposed programme

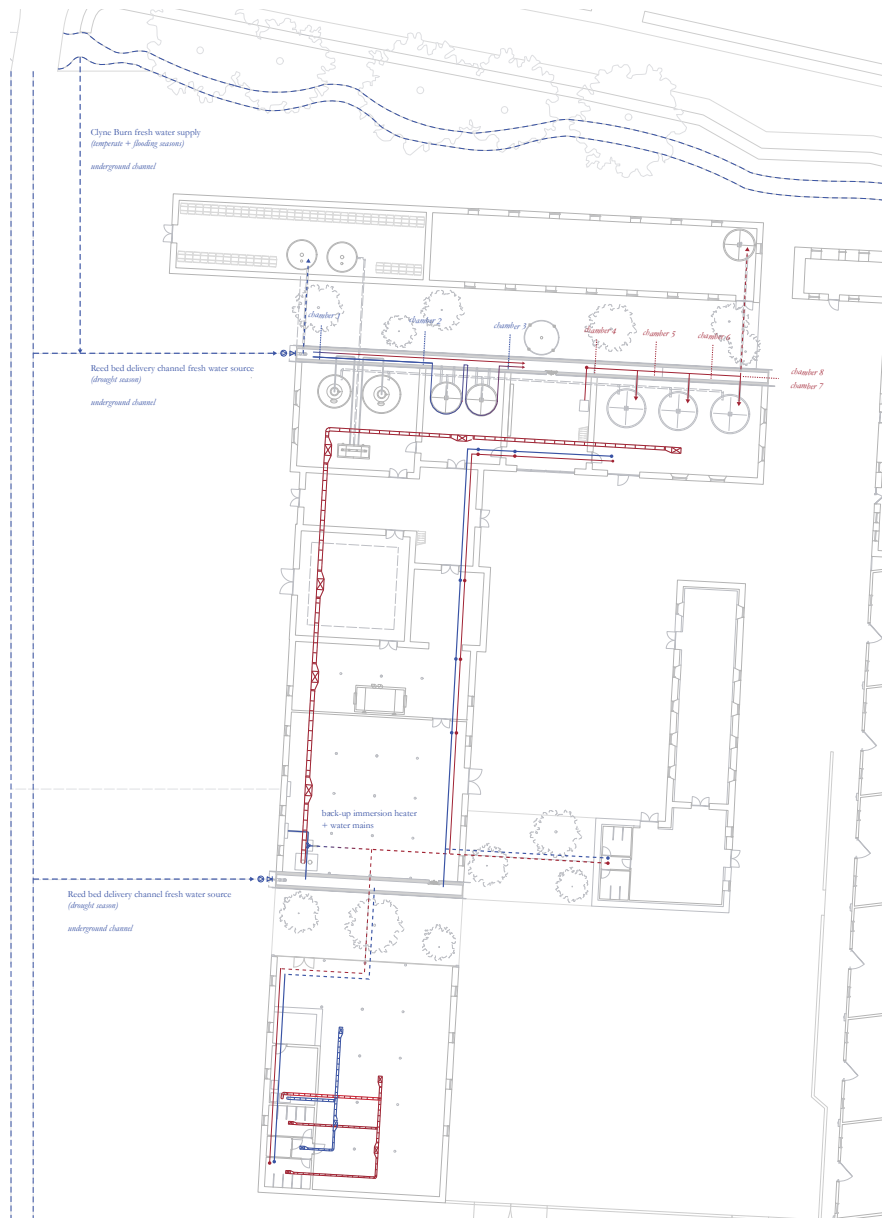
- ∕ cold water zone
- ∕ hot water zone
- ∕ exhaust air zone
- * acclimatised zone



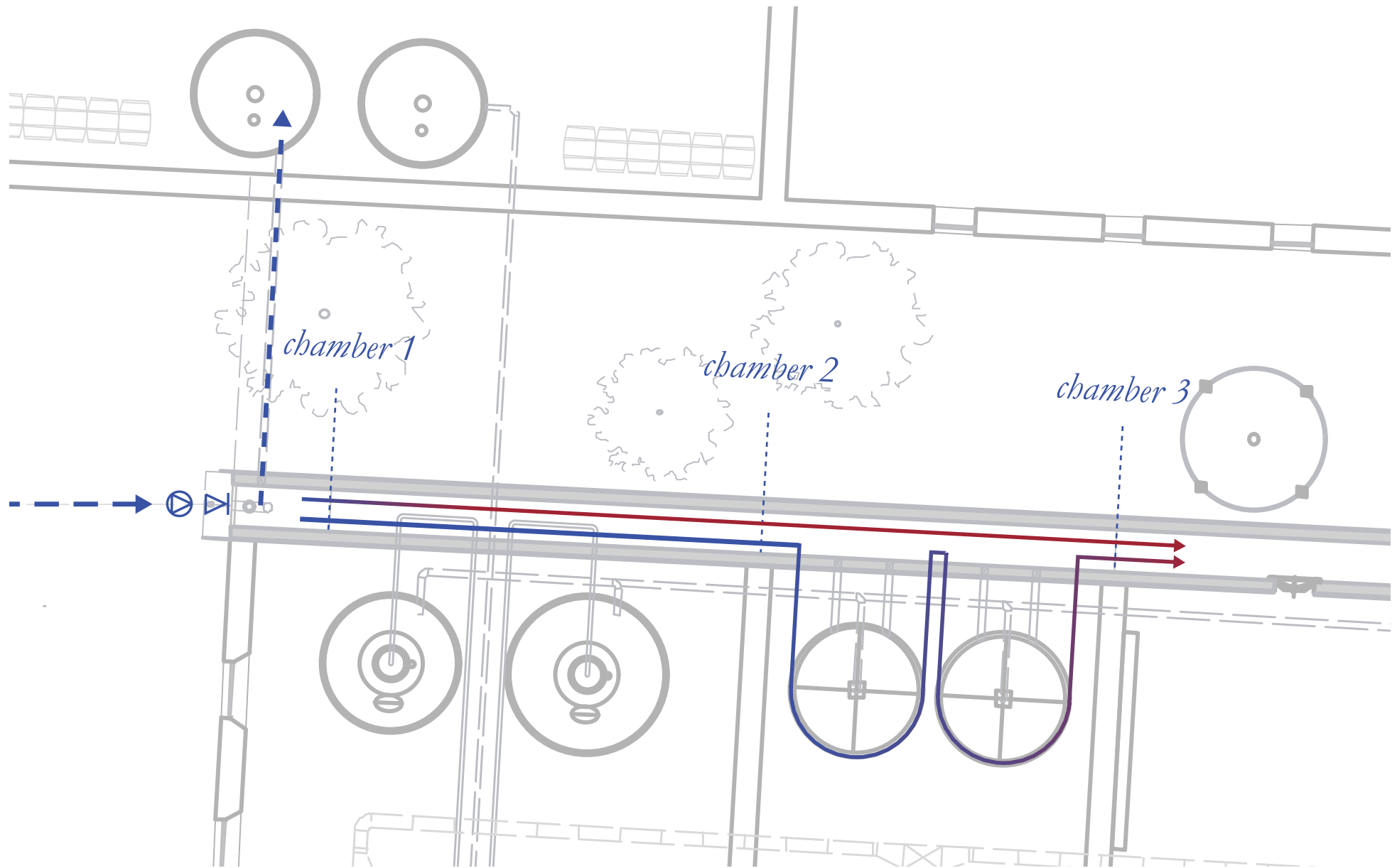
zoning



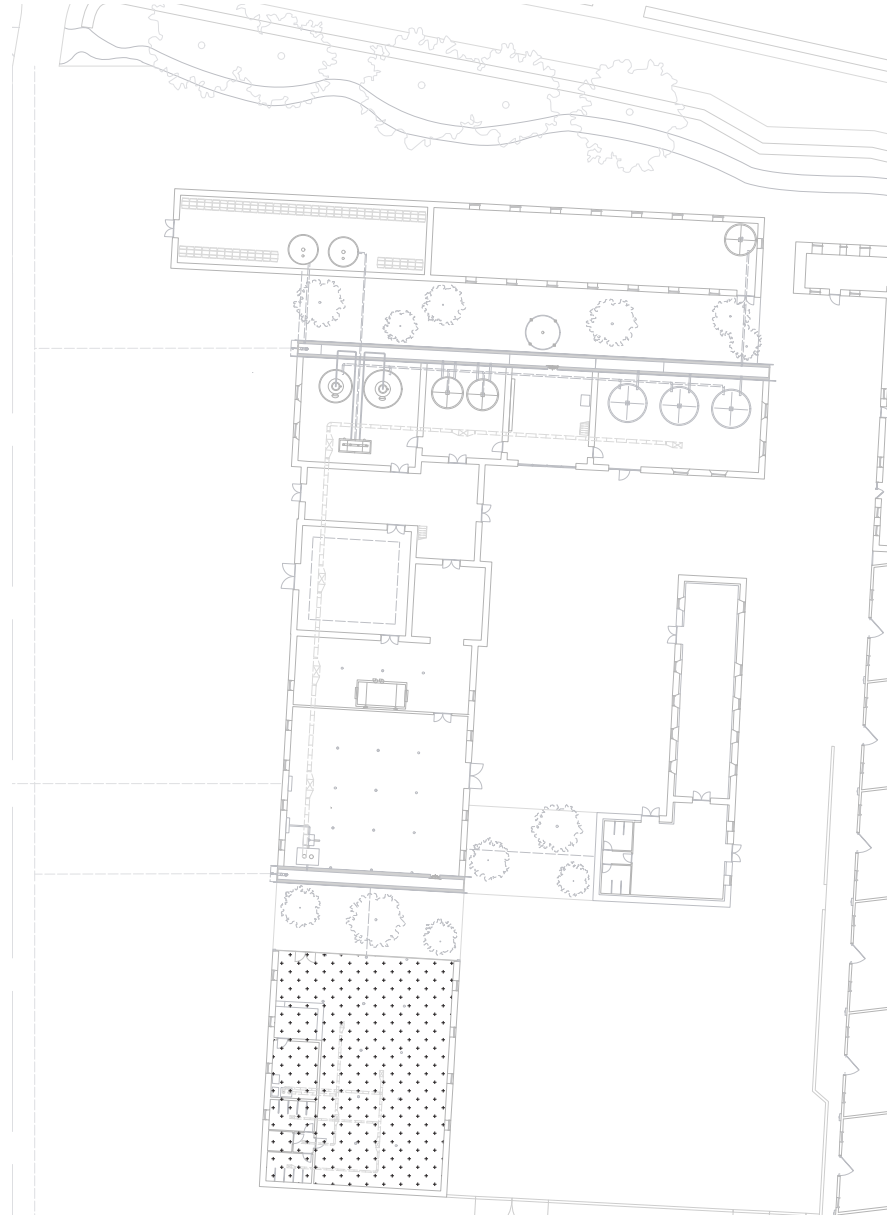
hot water zone



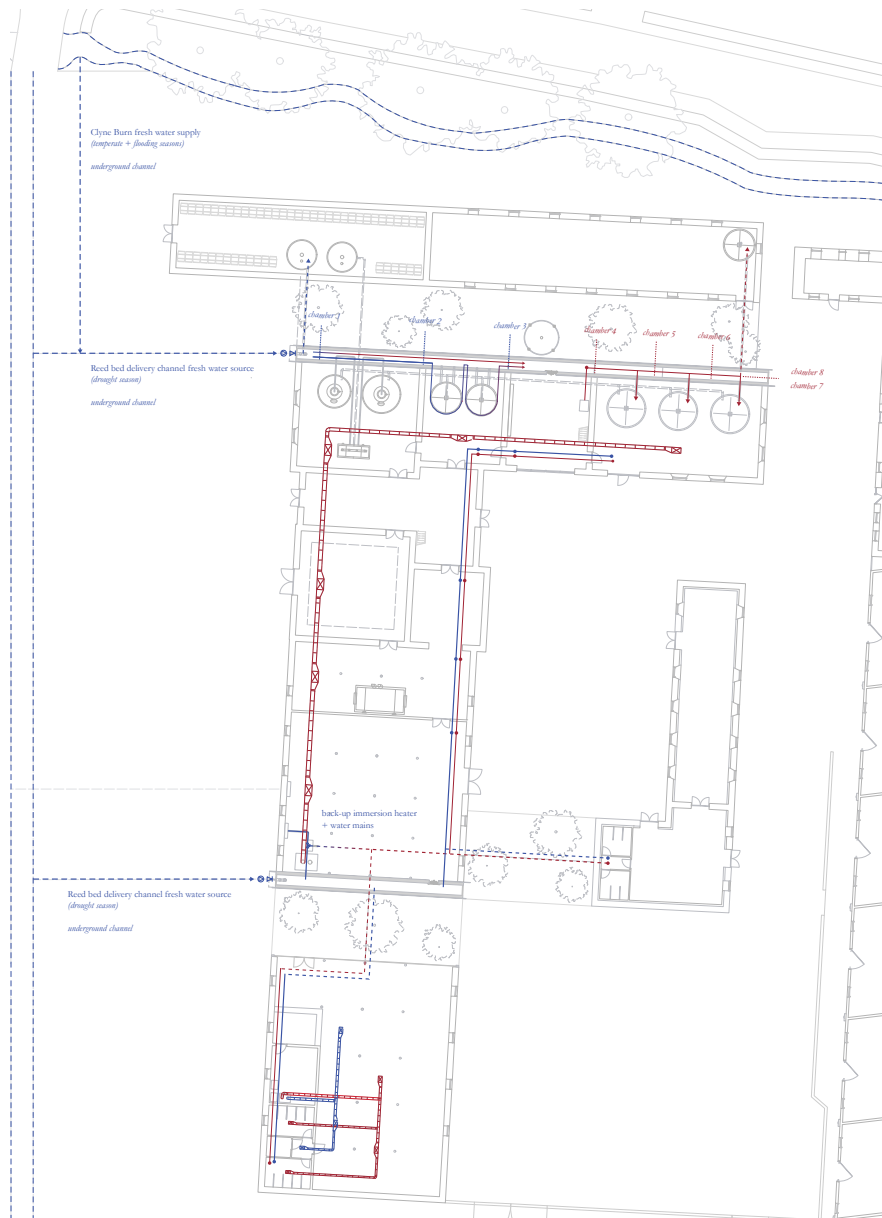
proposed heat recovery system



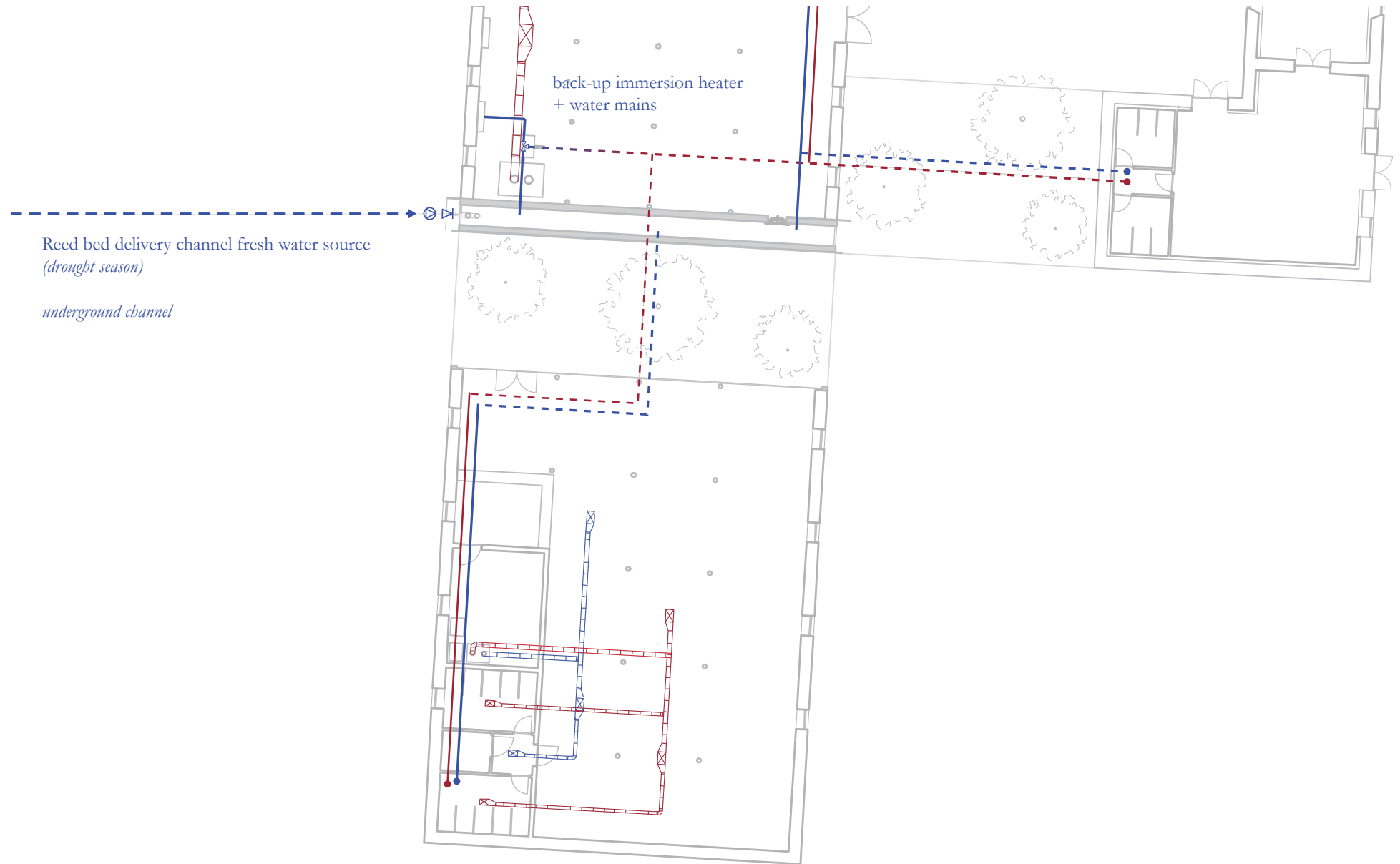
hot water zone heat recovery



acclimatised zone



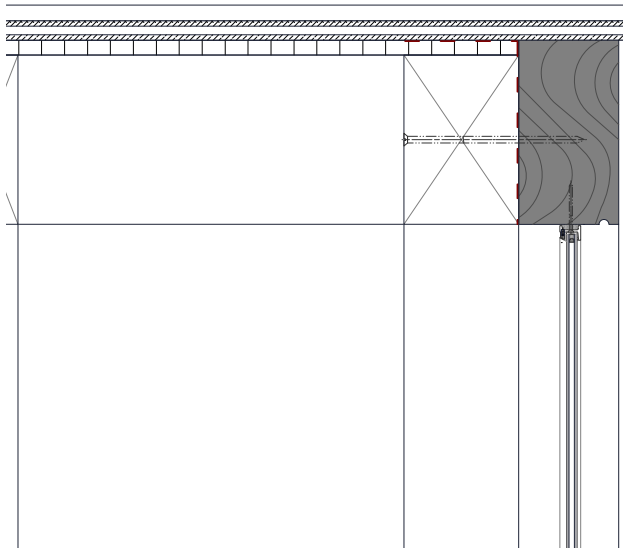
proposed heat recovery system



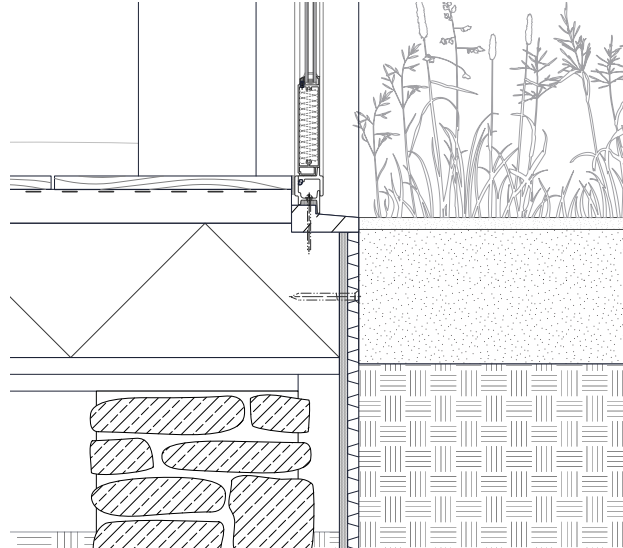
proposed heat recovery system



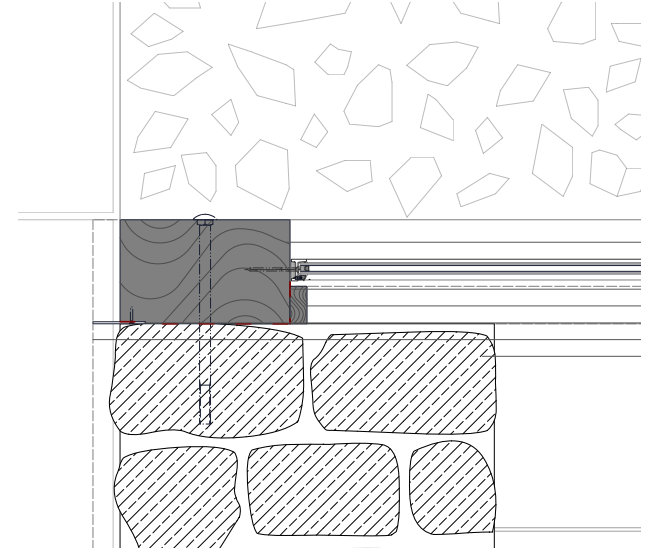
visitor centre | courtyard | plant room section



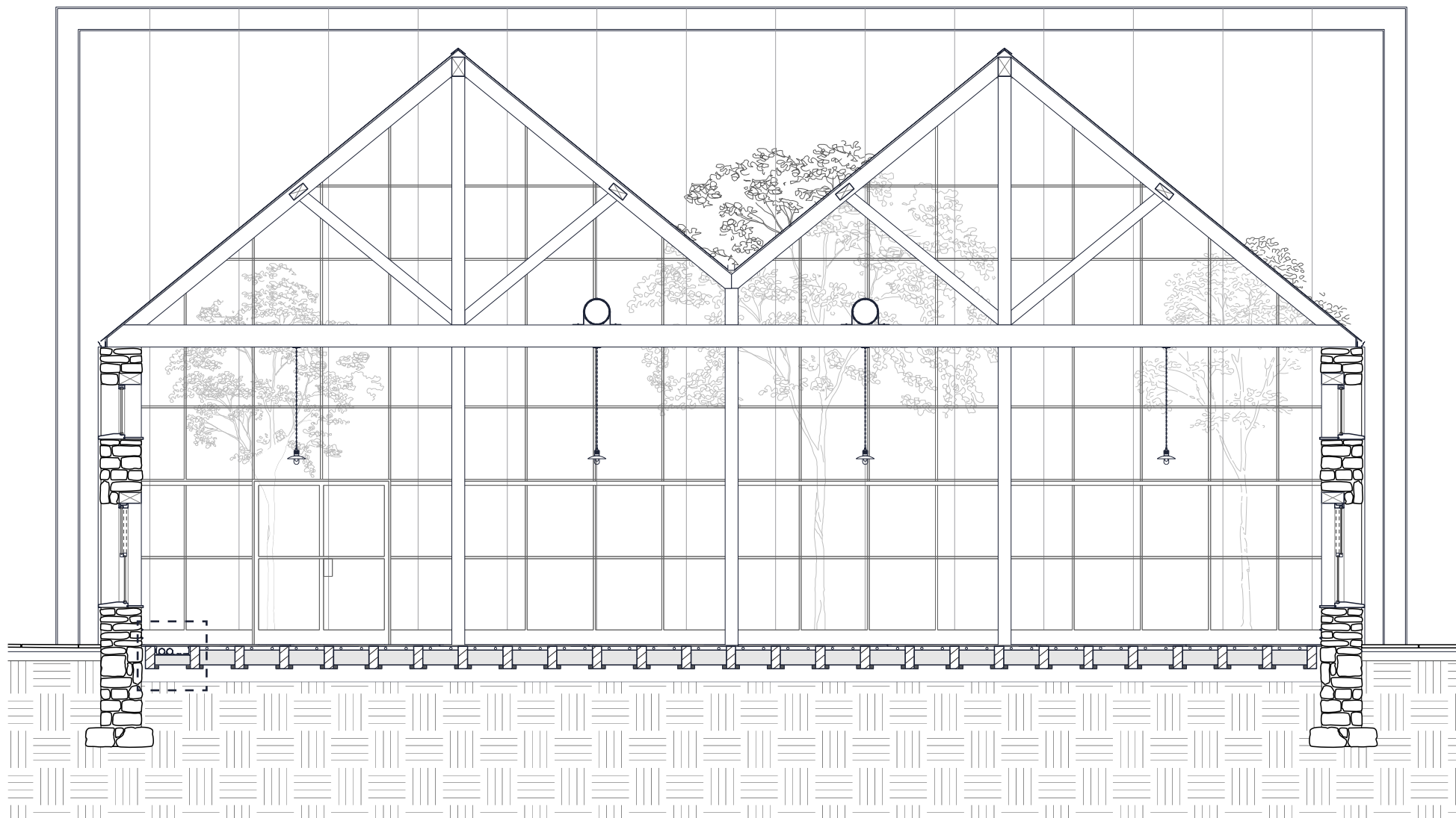
distillery visitor centre | glazed north facade | head detail



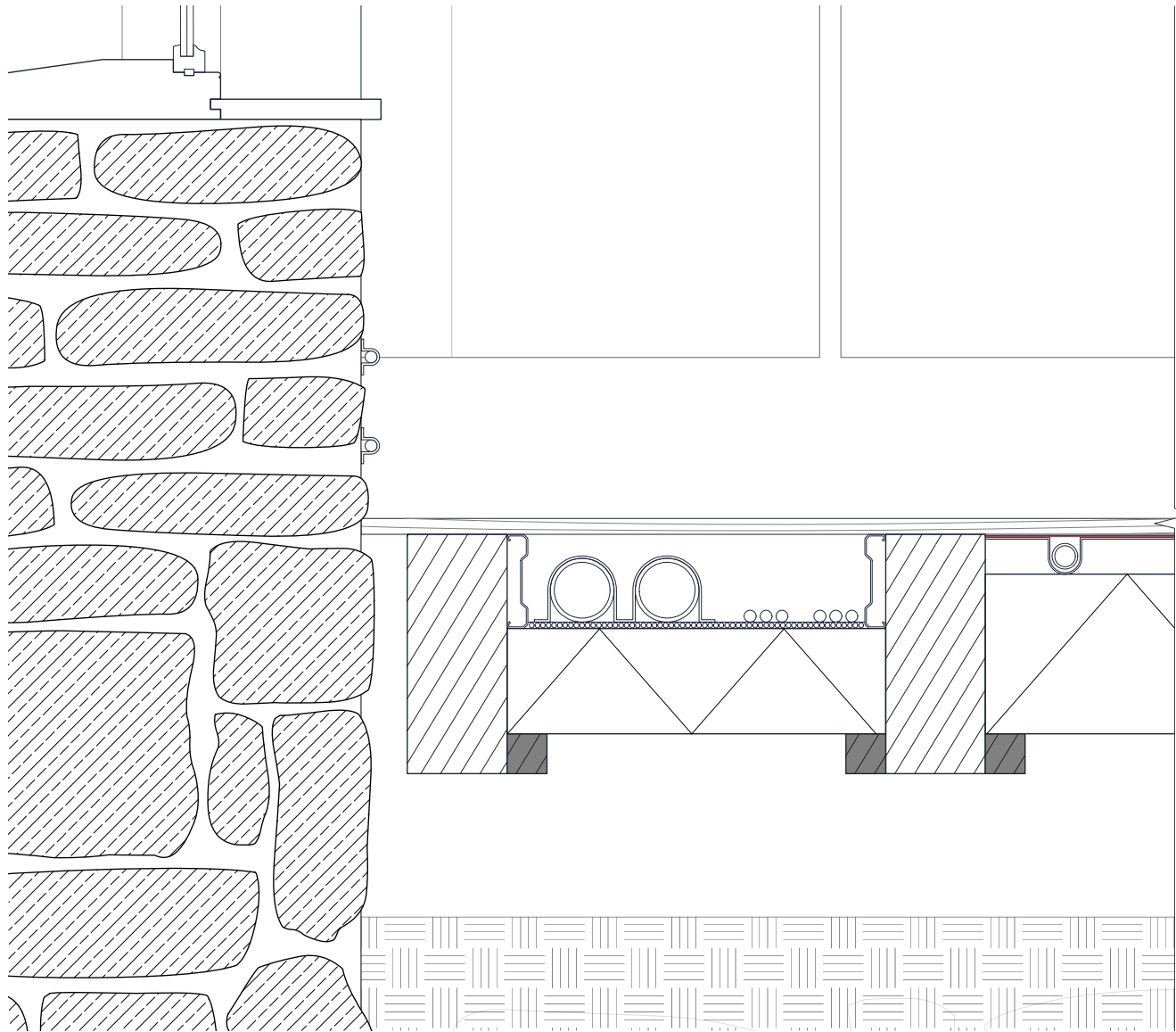
distillery visitor centre | glazed north facade | sill detail



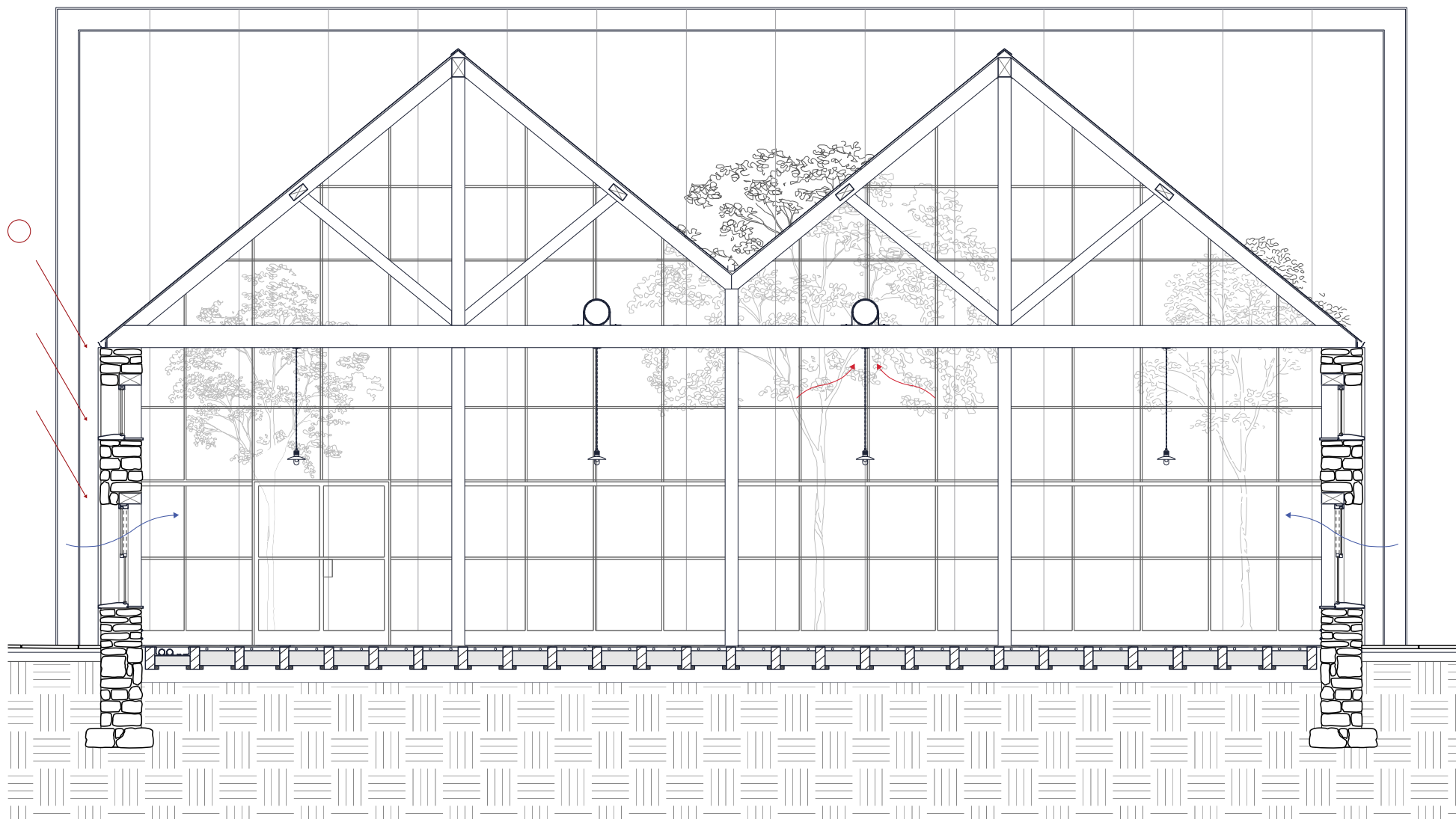
distillery visitor centre | west + north facade | corner plan detail



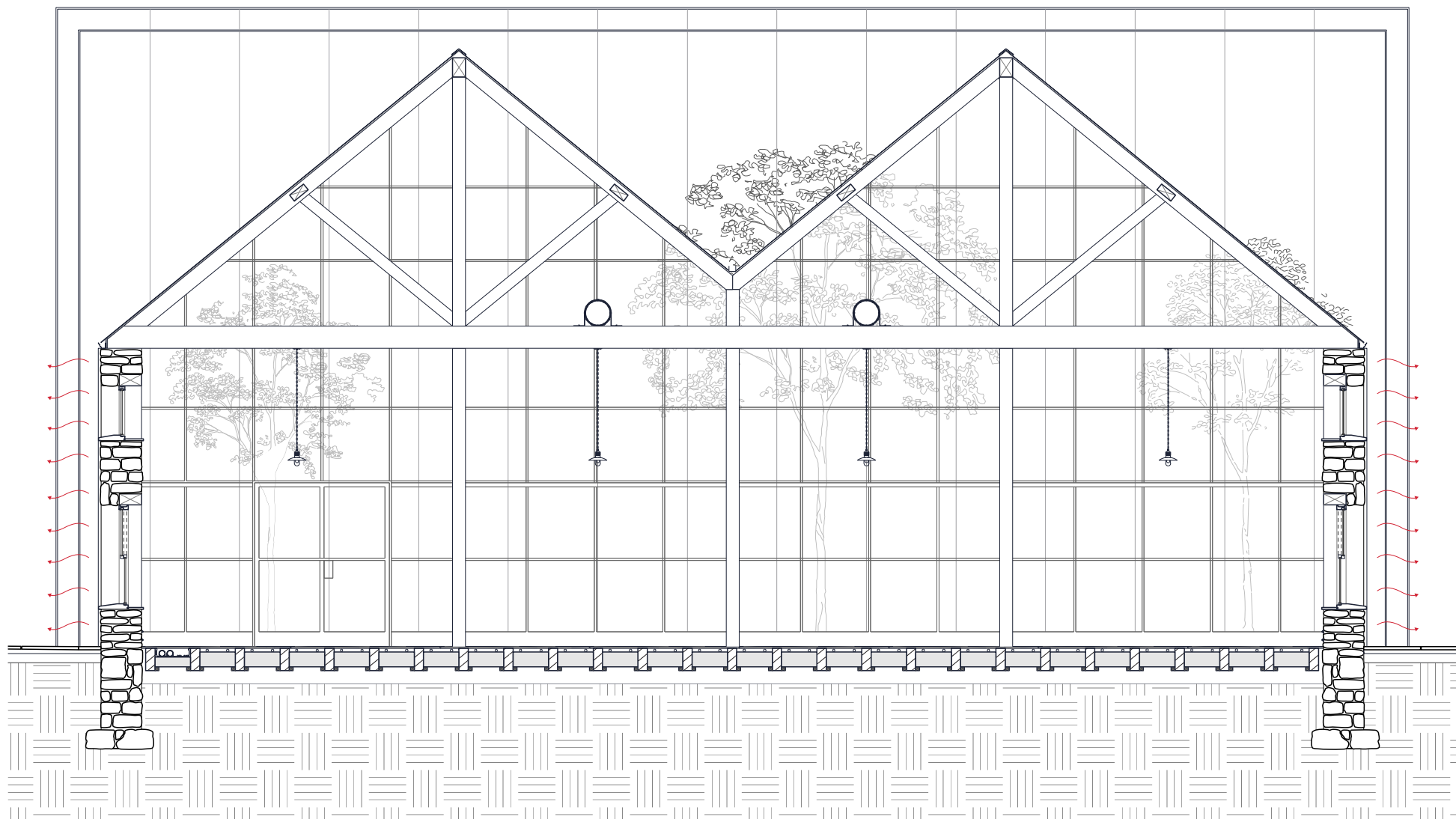
visitor centre section



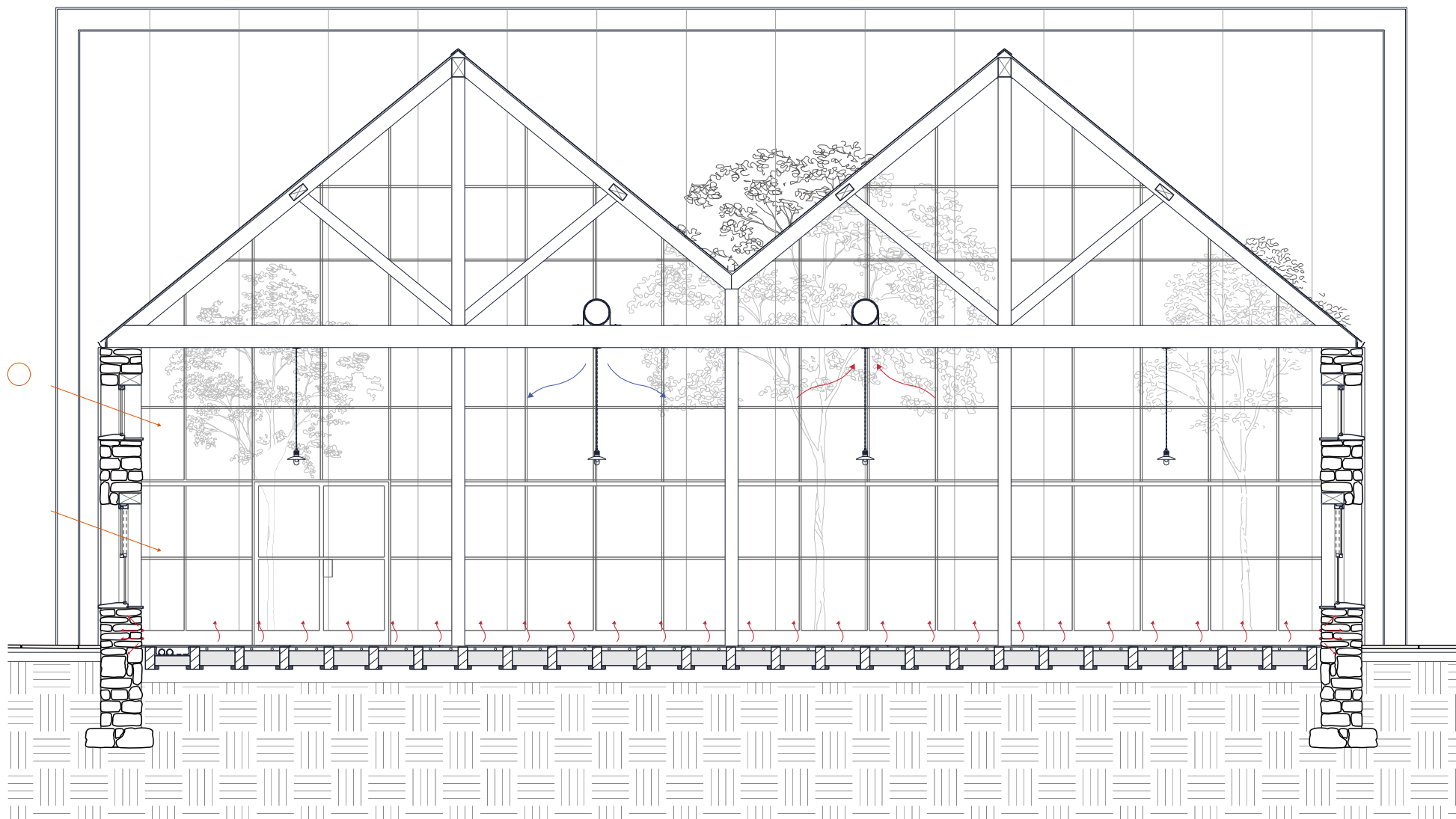
distillery visitor centre | masonry west facade | wall/floor detail



acclimatised zone | summer day-time climate strategy



acclimatised zone | summer night-time climate strategy



acclimatised zone | winter climate strategy

Impressions



embedded delivery channel | water vat
view into northern courtyard, with copper-clad water vat grafted onto existing distillery



water vat | still room
interior view with new unoxidised copper water vat



water vat | still room
interior view with aged oxidised copper water vat





