

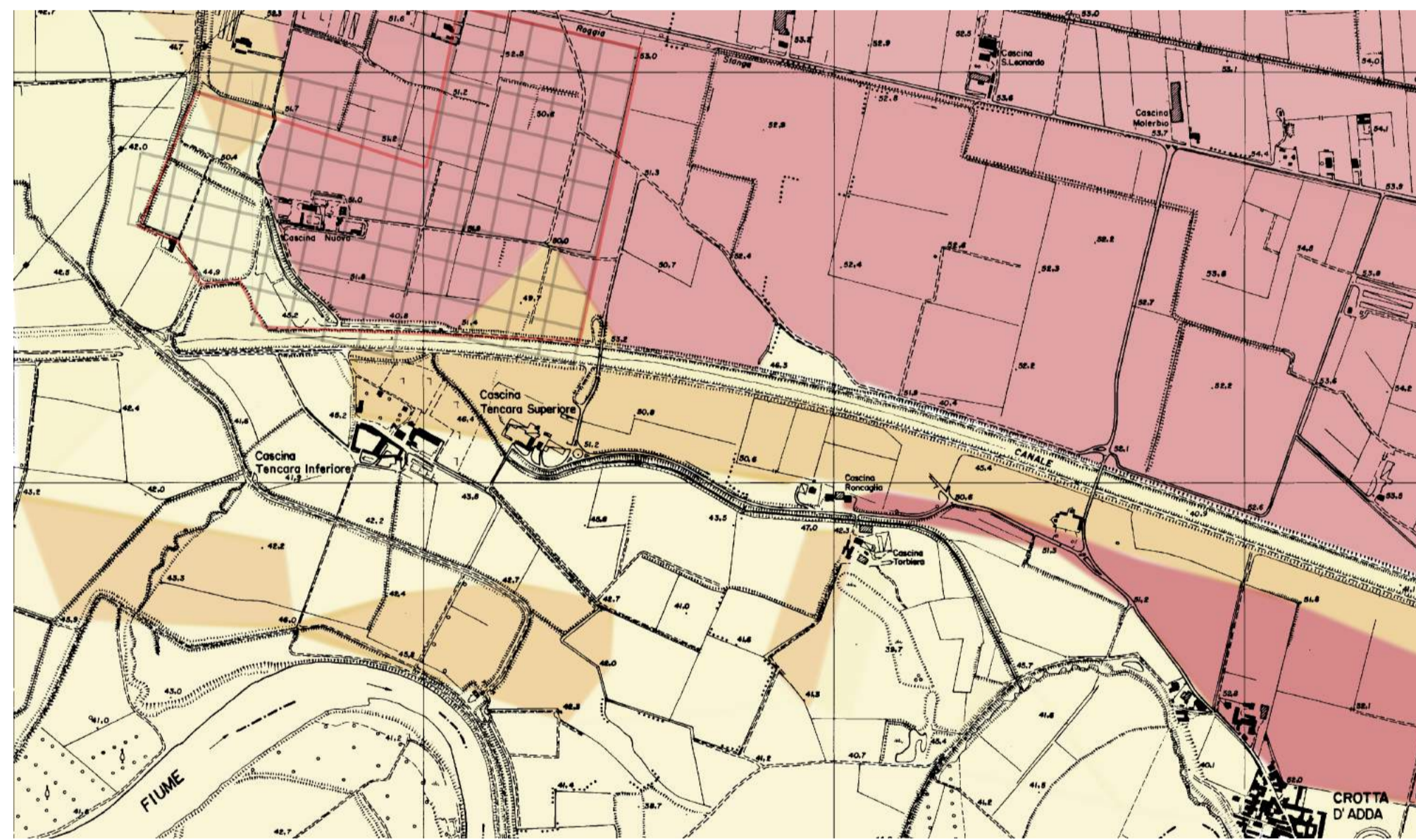
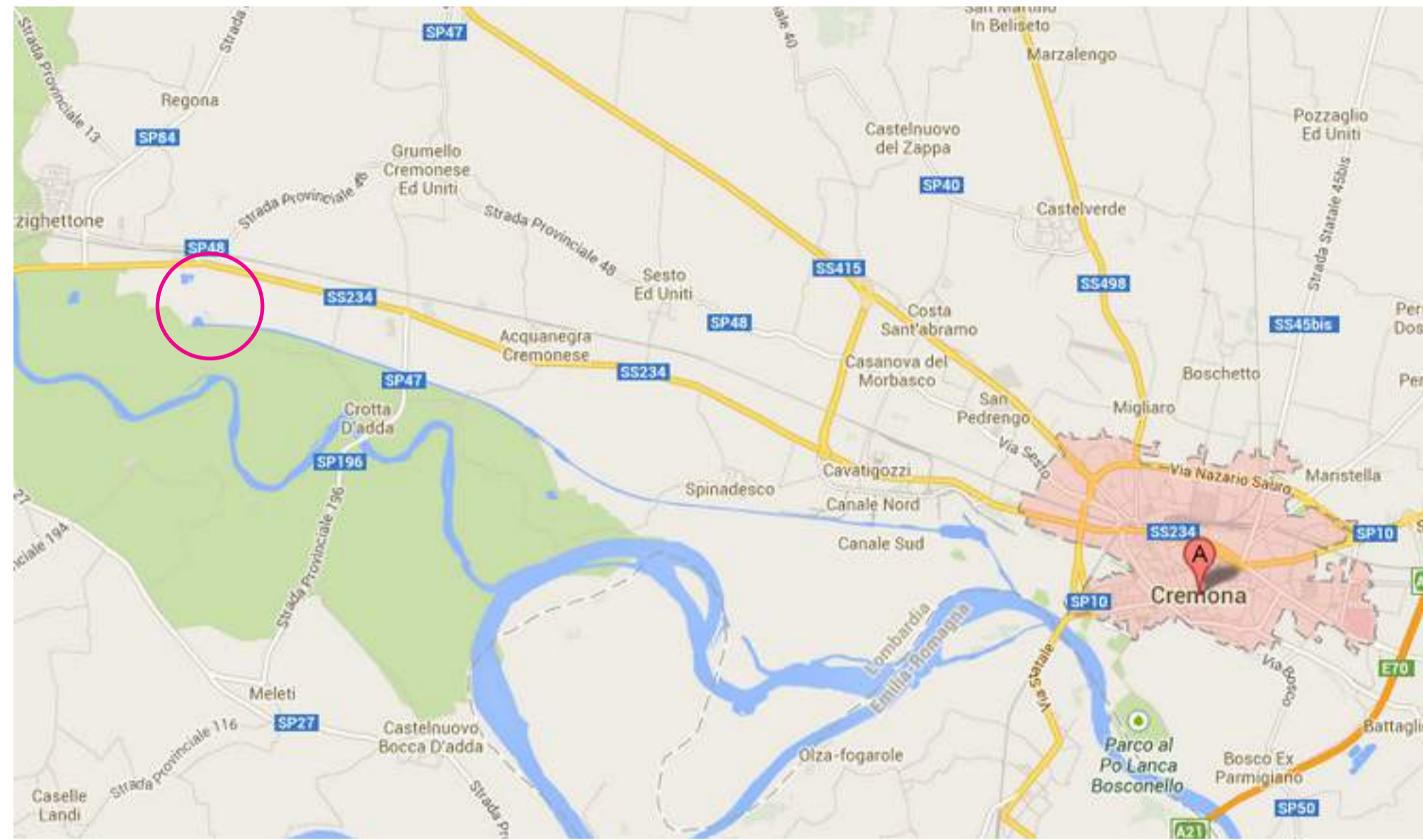
/ ZERO+ / CASCINA OF THE FUTURE

/ FALL 2013 / XIV /

CRITICS: SIMONE GIOSTRA / ROBERTO MANCINI

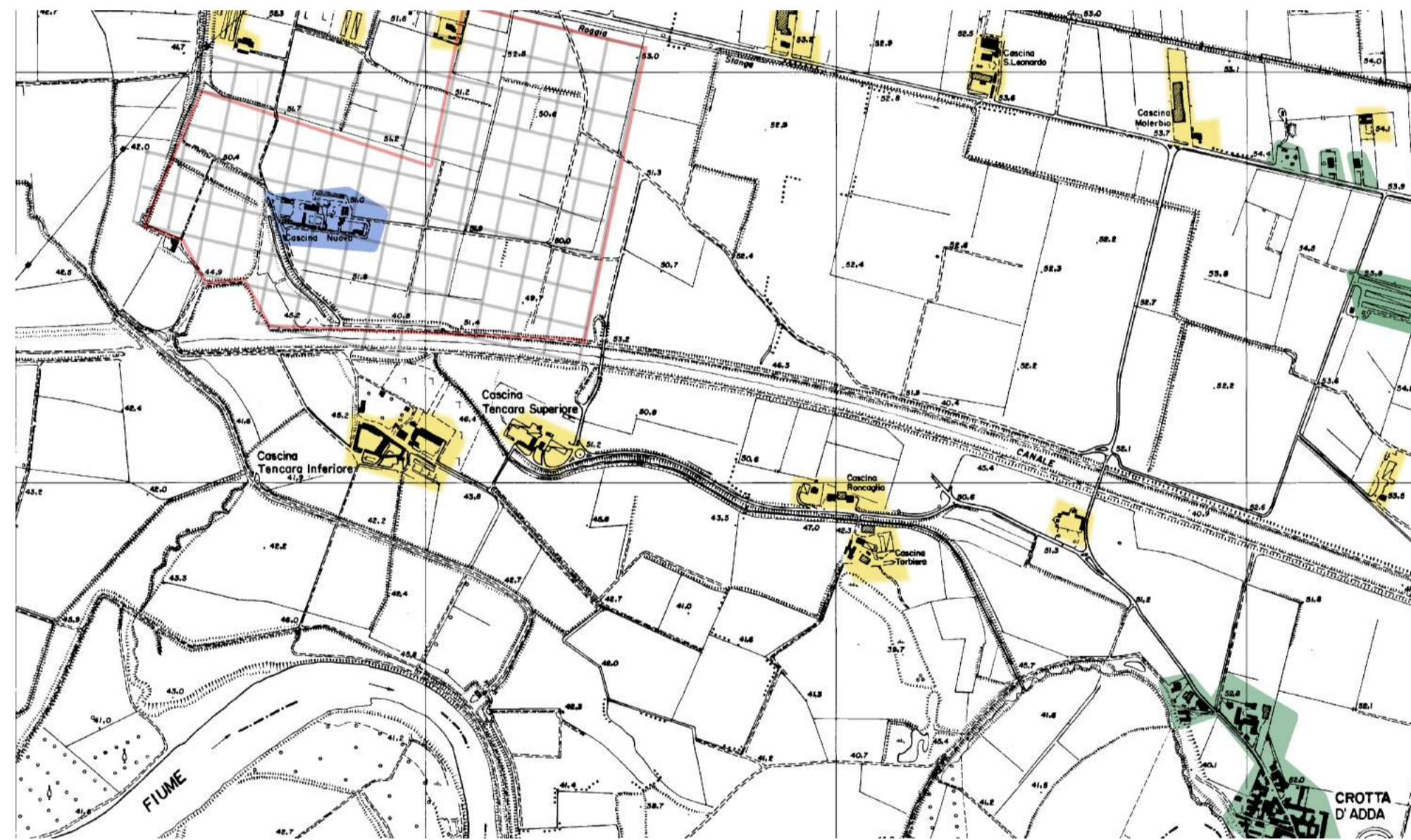
TUTORS: VALERIO SIGNORELLI / ROY NASH

SITE ANALYSIS - INVISIBLE FORCES



/ HEIGHT ANALYSIS / Agricultural land, forest area, flatland, gradients, countryside

40 - 45 M 45 - 50 M > 50 M



/ FUNCTIONAL ANALYSIS / Typology, identification, surroundings, context

Structures Within the Area Farmhouses Unidentified Structures



/ INTERMODAL ACCESS ANALYSIS / Transportation, accessibility, industry

Canal System Highway Railway



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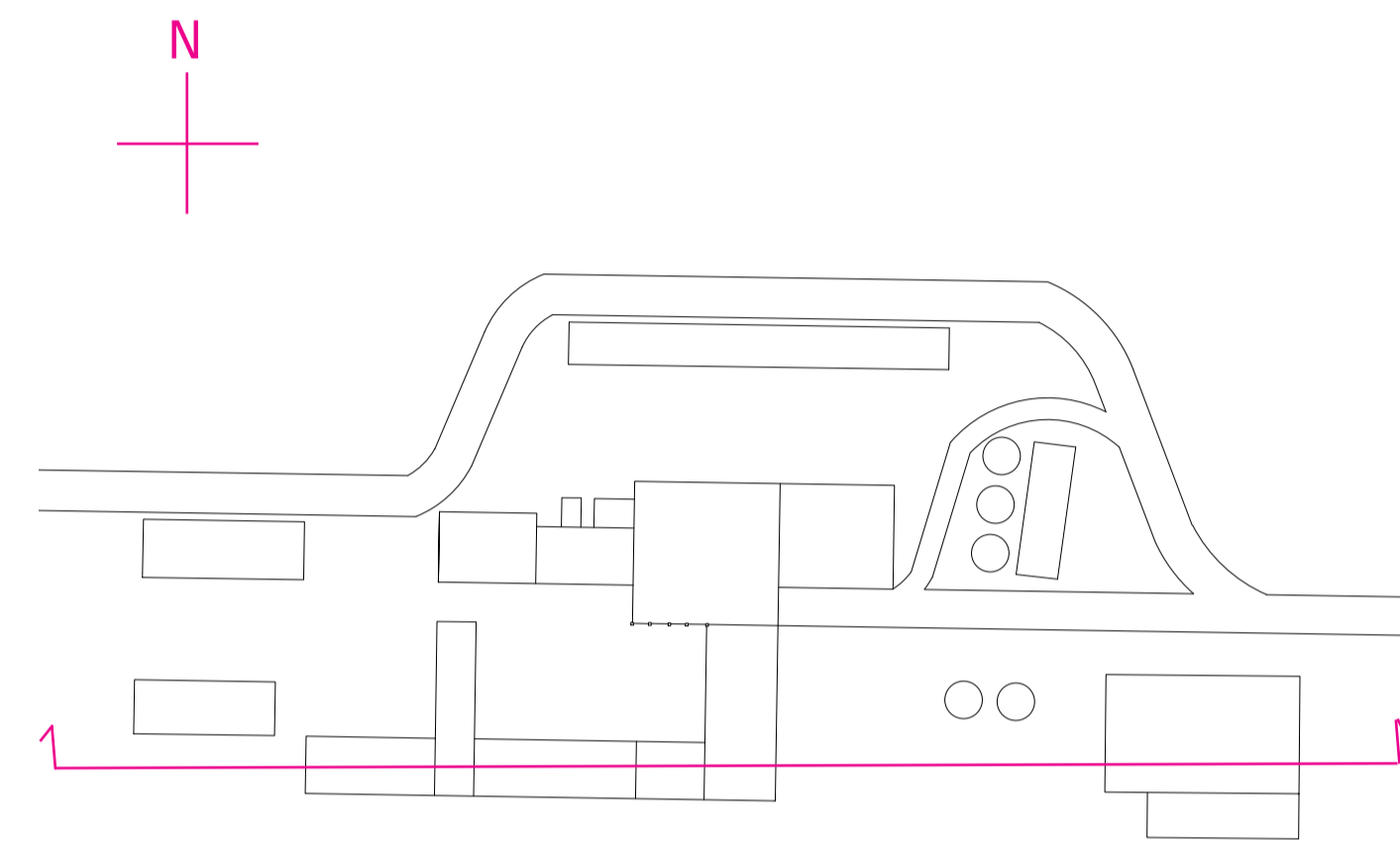
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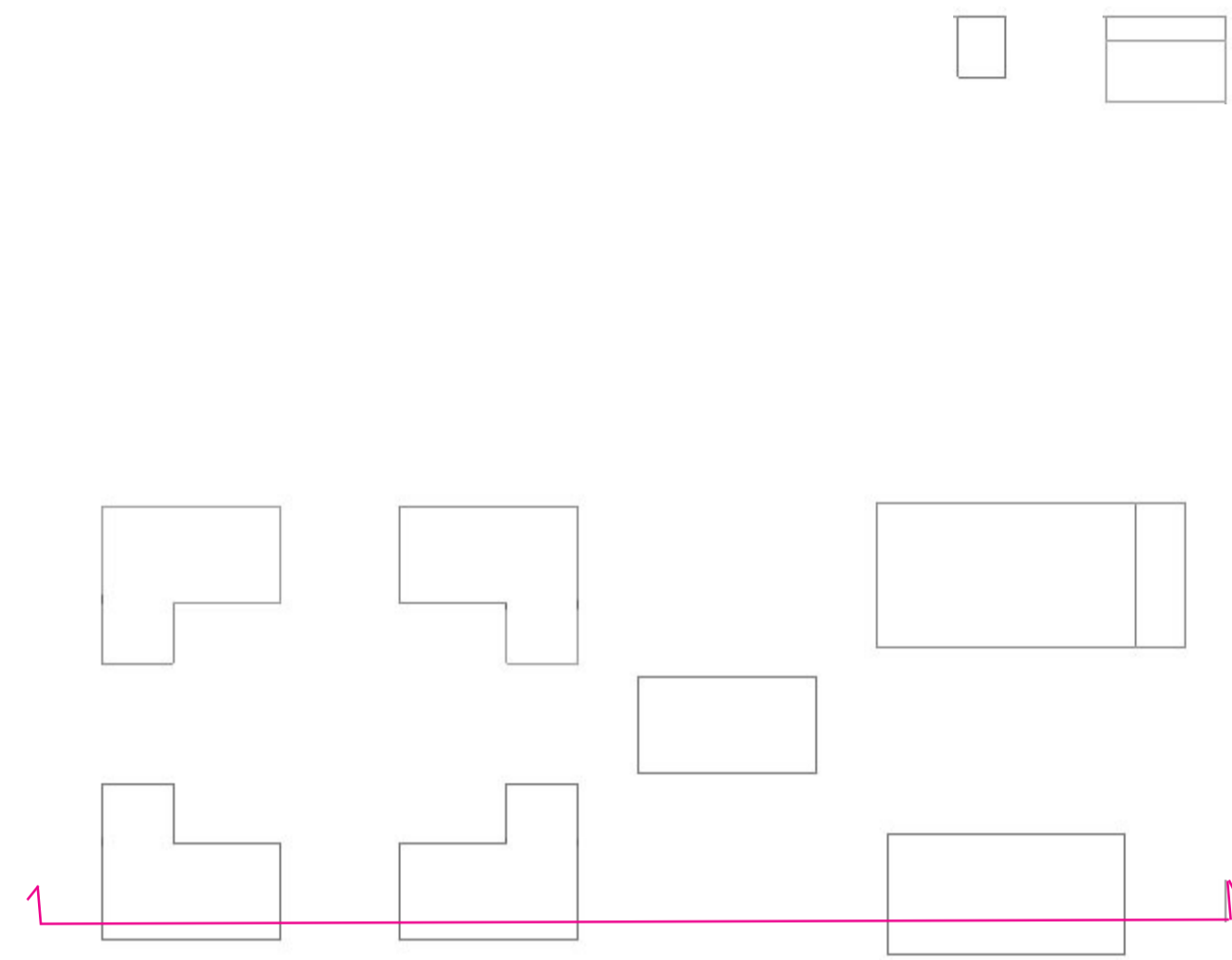
TUTORS: VALERIO SIGNORELLI / ROY NASH

THE TRANSFORMATION

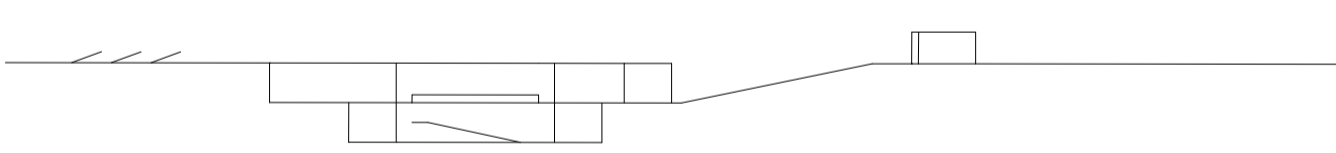
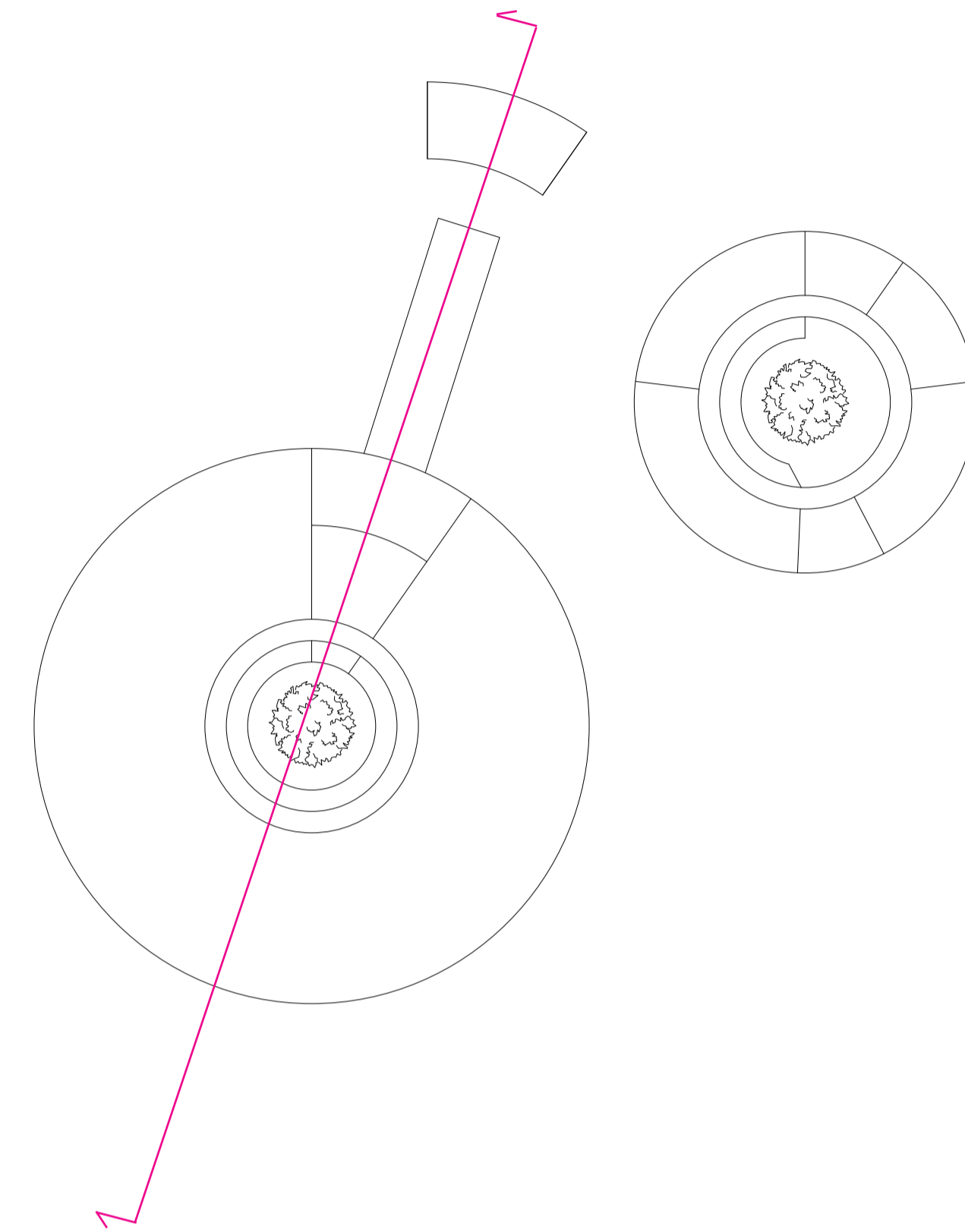
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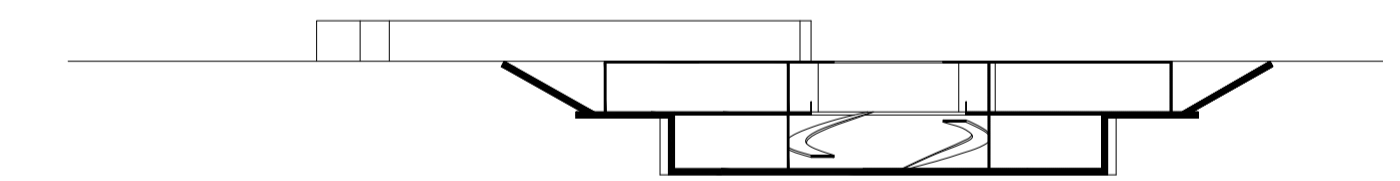
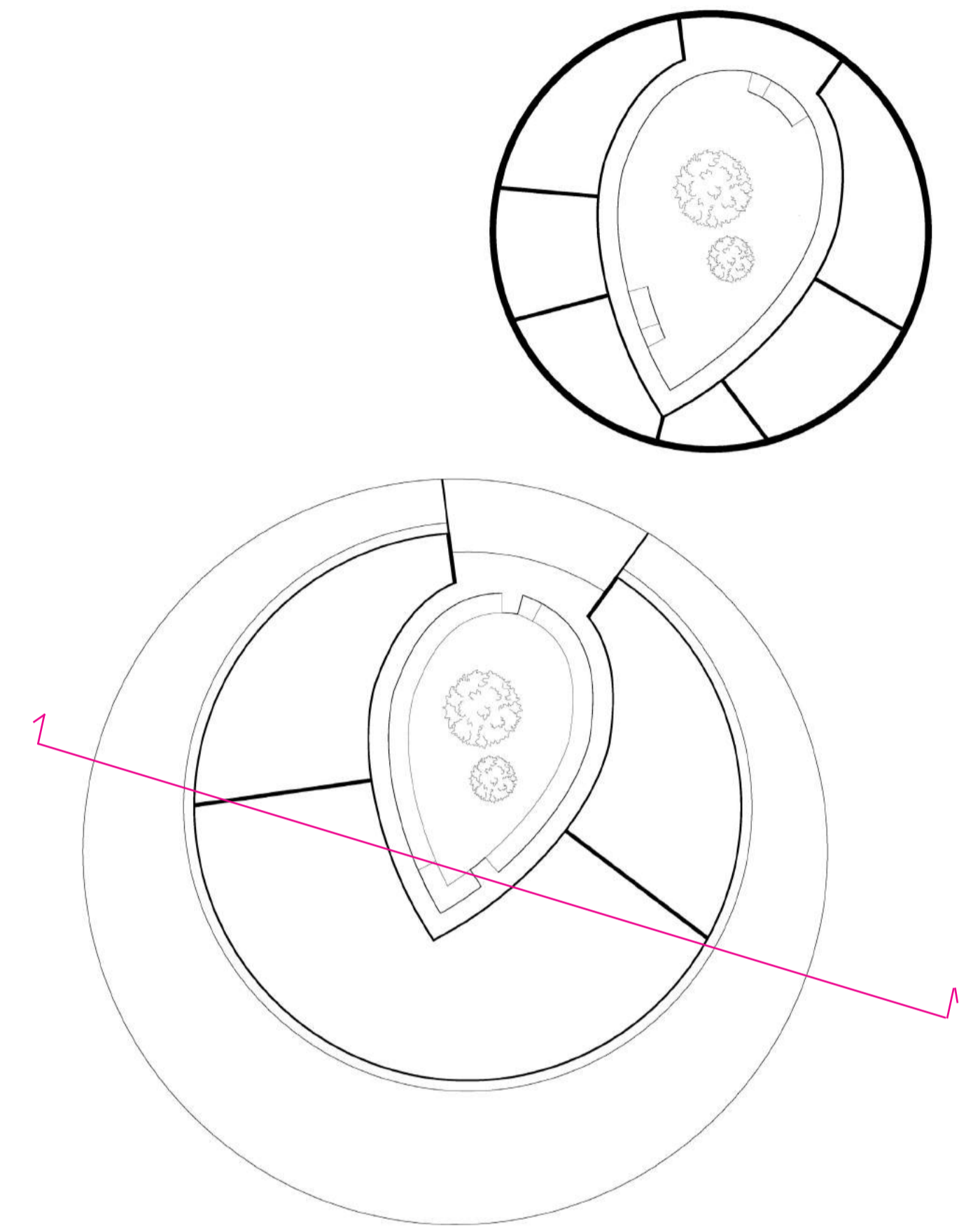
/ CASCINA NUOVA /



/ 21ST CENTURY CASCINA /



/ THE CASCINA OF THE FUTURE /



/ THE CASCINA OF THE FUTURE - REVISITED /

/ ZERO+ / CASCINA OF THE FUTURE

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CRITICS: SIMONE GIOSTRA / ROBERTO MANCINI / TUTORS: VALERIO SIGNORELLI / ROY NASH

VOLUMETRIC ANALYSIS

/ CASCINA NUOVA /



/ MODERN CASCINA /



/ CASCINA OF THE FUTURE /



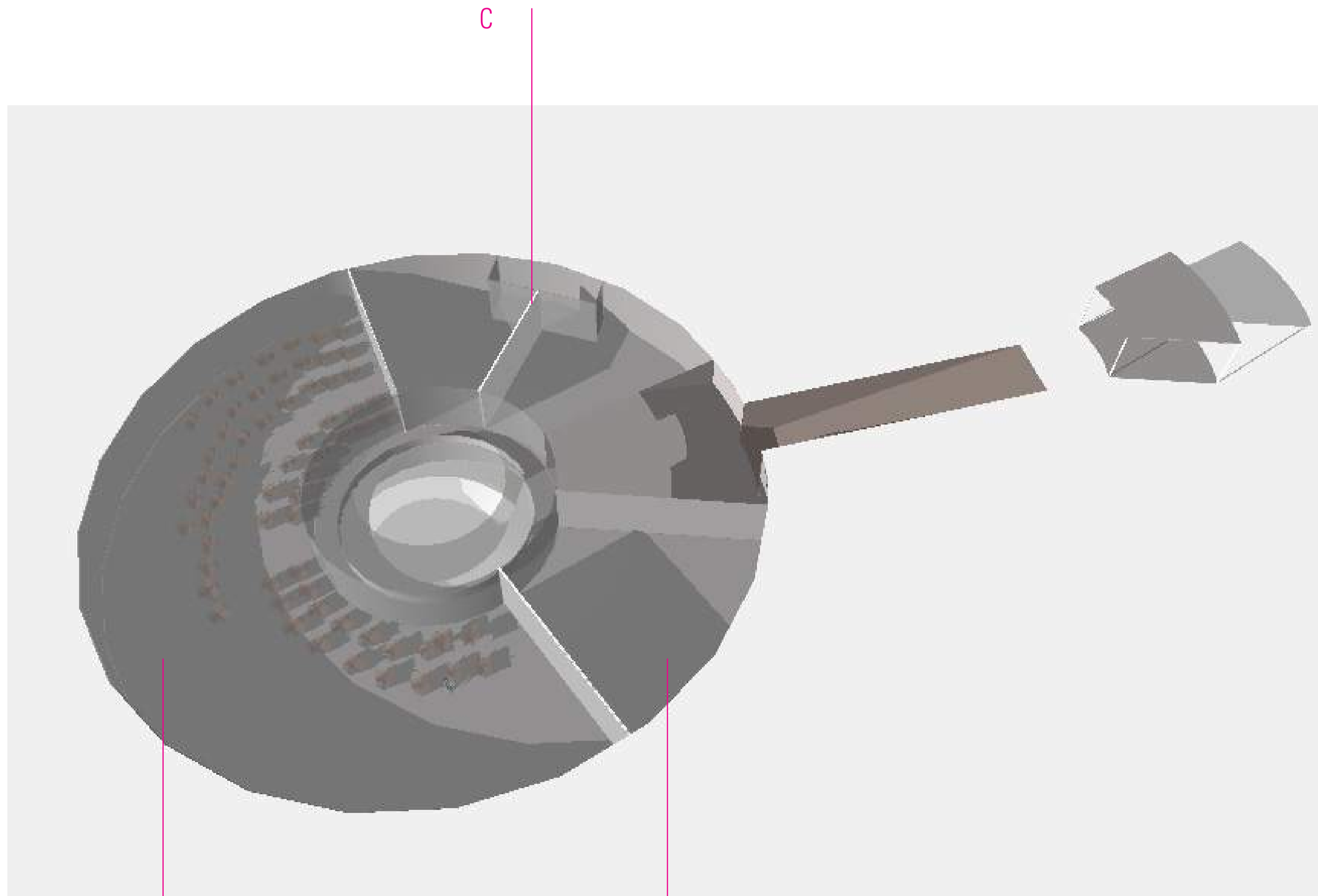
/ CASCINA OF THE FUTURE- REVISITED /



LEGEND

- | | | | |
|-------------|---------------|---------------|-----------|
| RESIDENTIAL | ANIMALS | COURTYARD | PACKAGING |
| BARN | GRAIN STORAGE | CONTROL ROOM | |
| STORAGE | GREENHOUSE | SHADOW BUFFER | |
| GUESTHOUSE | PARKING | STUDIO/OFFICE | |

The residential area also finds itself in a fair amount of shade, mainly during the months of December, January and February. As light from above is not as important as light from the sides, the shadow buffer that perimeters this area can be SMALLER.



A

This area of the Cascina is very shaded throughout the winter months. As this is the Greenhouse, sun is vital in insuring a constant production of fresh produce.

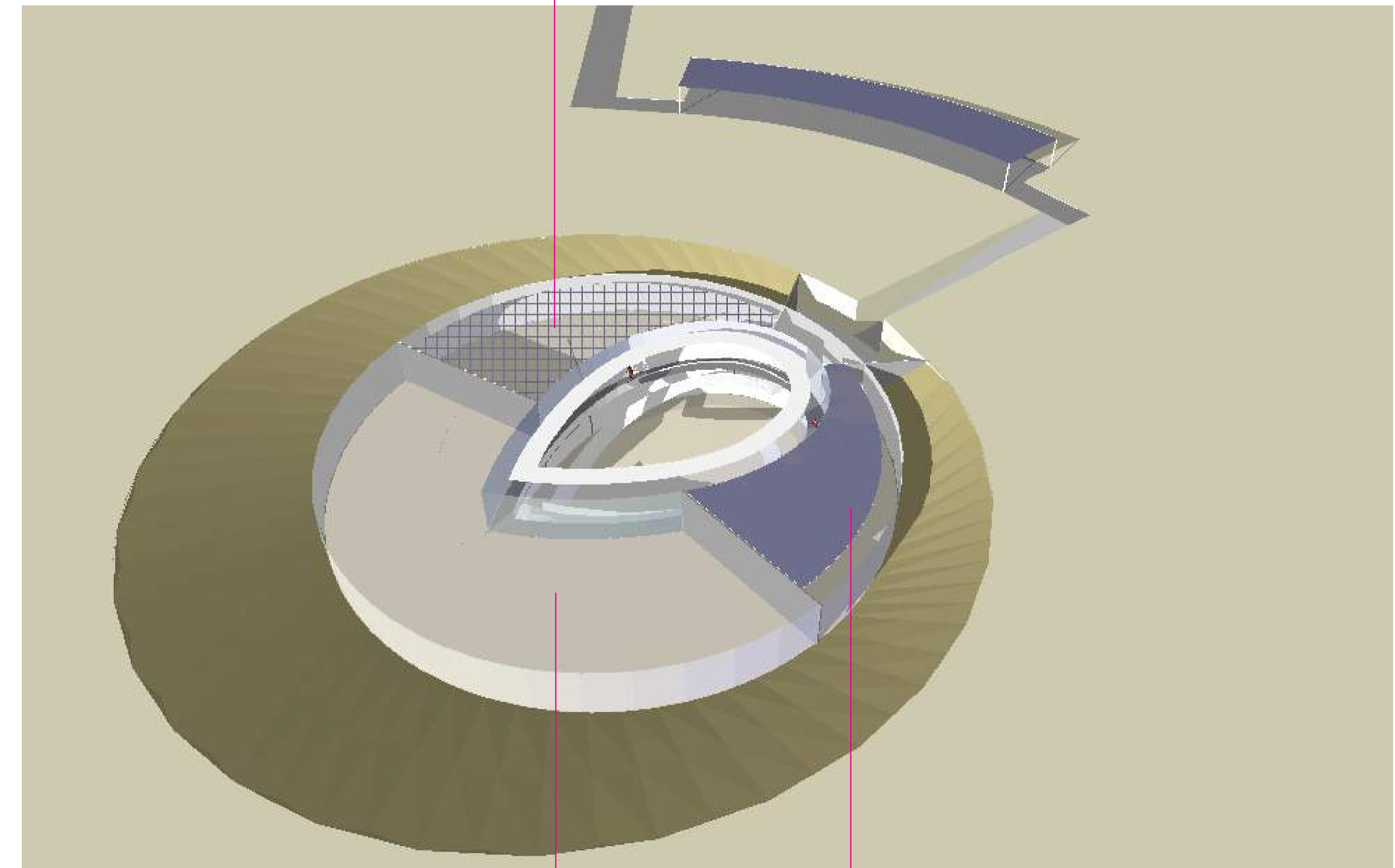
This is the area which requires the MOST amount of sunlight and therefore a LARGER shadow buffer

B

Similar to the main residential area, the guest house doesn't require as much above sunlight as the Greenhouse does. This also requires a SMALLER shadow buffer around its perimeter.

C

The main residential area is also exposed to less harsh light from above and gains most of its light from the courtyard and the shadow buffer.



A

With the shadow buffer, the Green house is hardly ever in the shade.

B

The Guesthouse has a much narrower shadow buffer, meaning that less light enters the area. This loss is recuperated through the courtyard.

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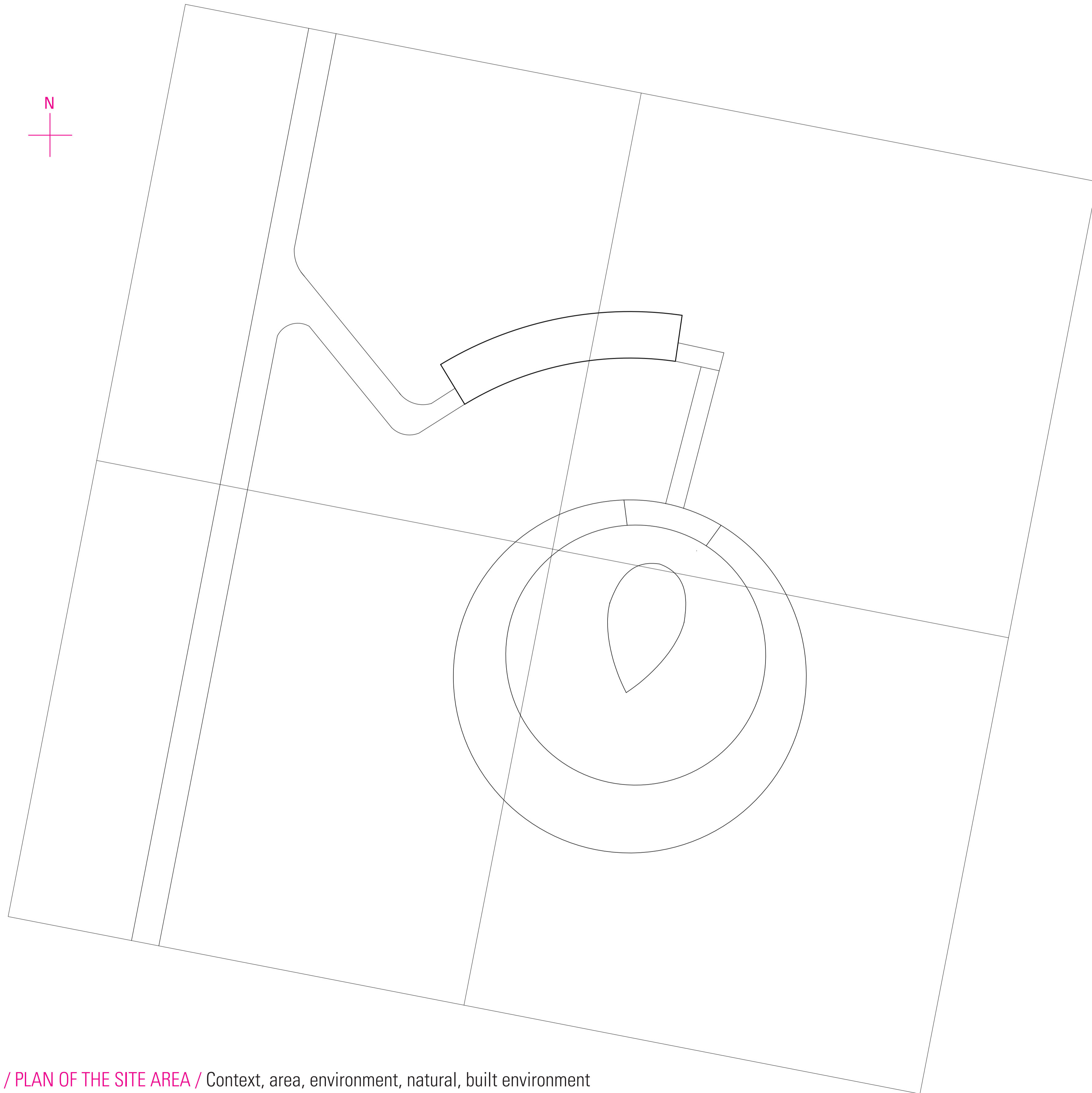
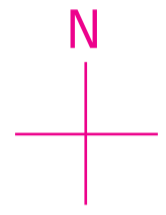
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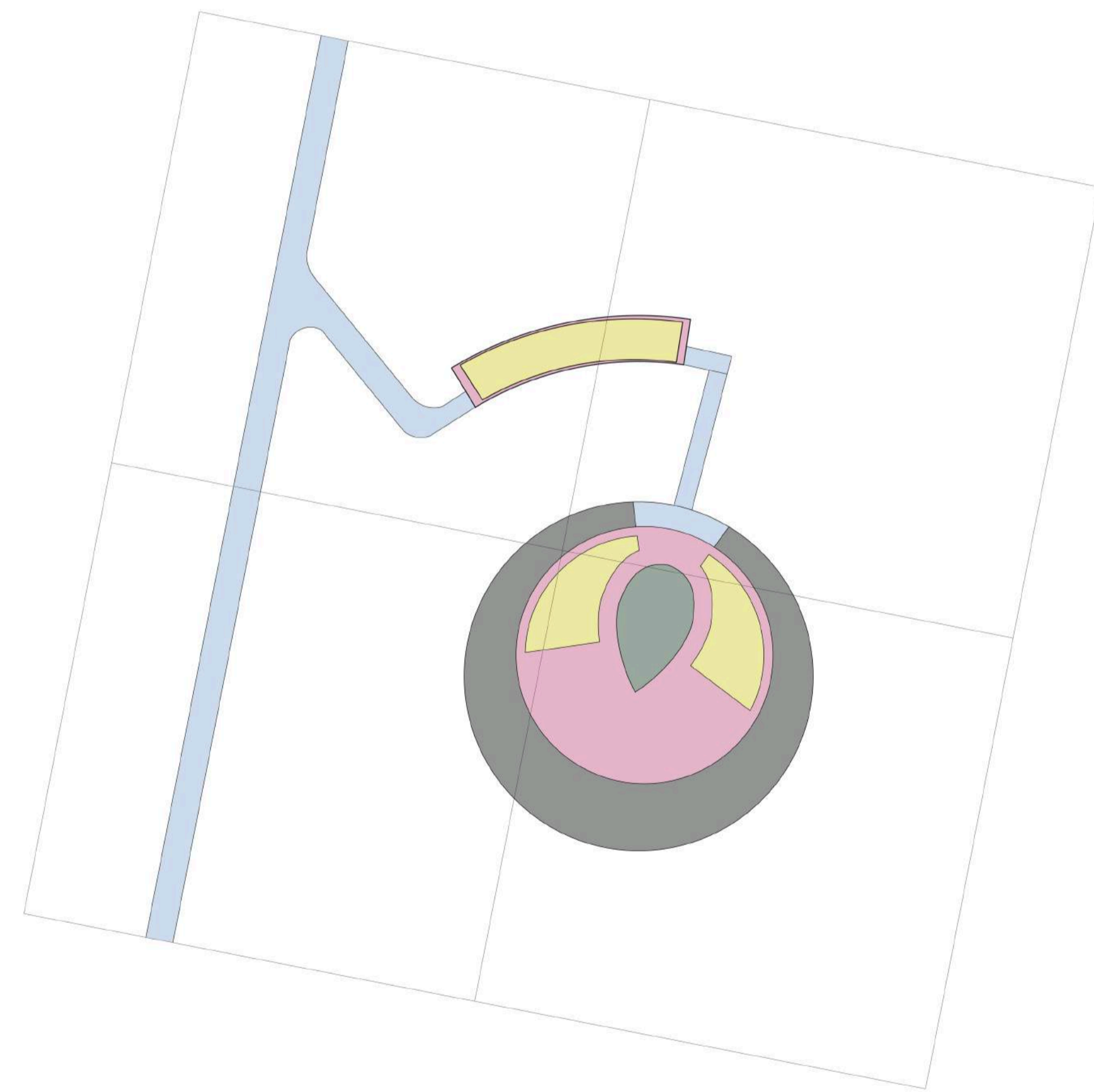
SITE PLAN FUNCTIONAL ANALYSIS

SCALE 1:500



/ CONTEXTUAL DIAGRAM /

Scale- 1:1000



- Means of Access
- Built Environment
- Green Area
- Photovoltaics Cells
- Shadow Buffer

/ PLAN OF THE SITE AREA / Context, area, environment, natural, built environment

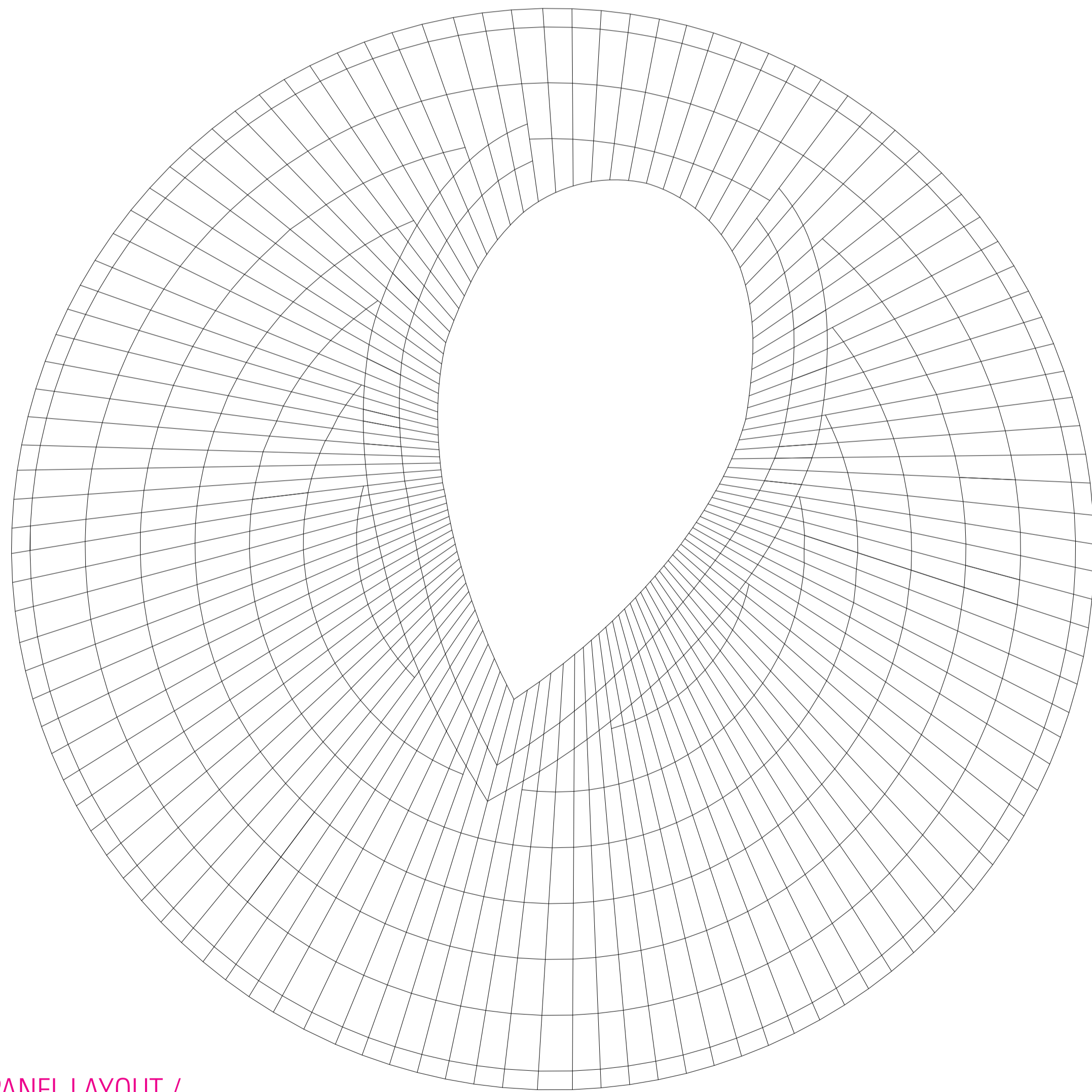
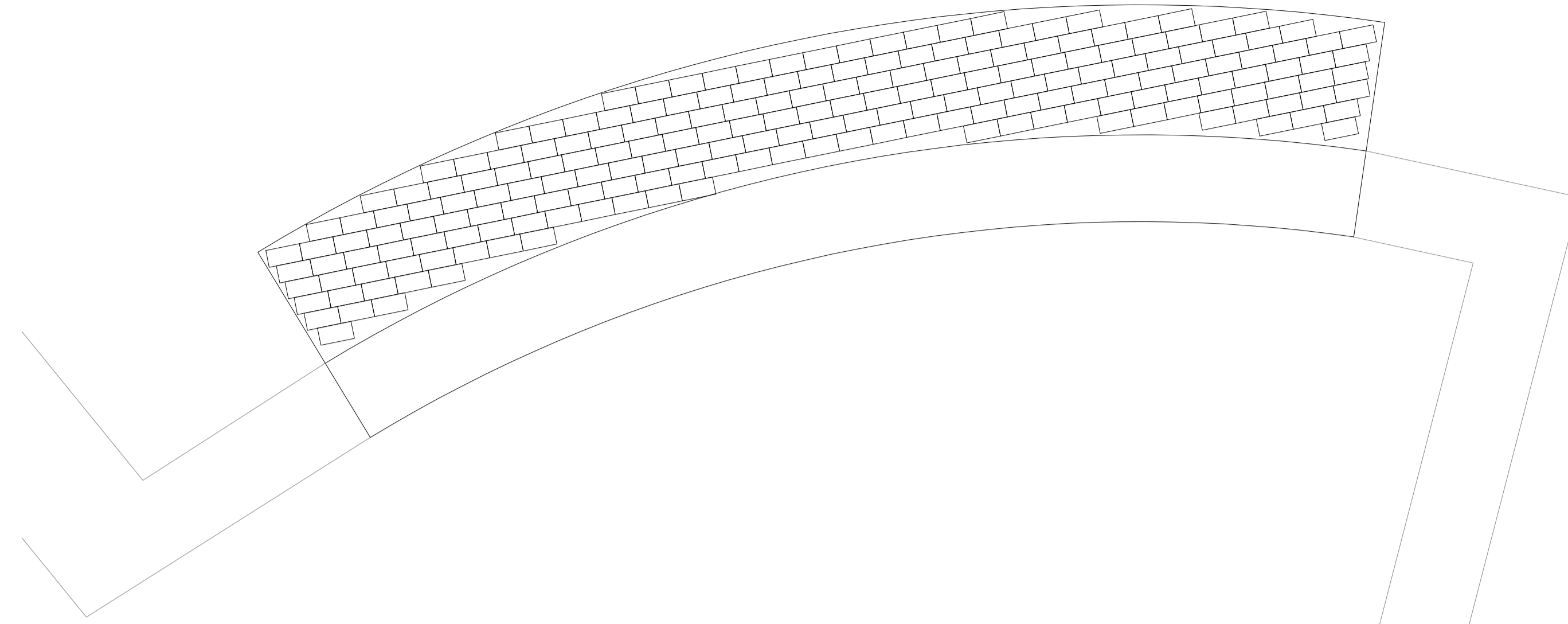
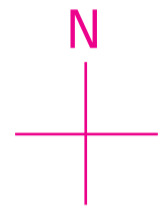
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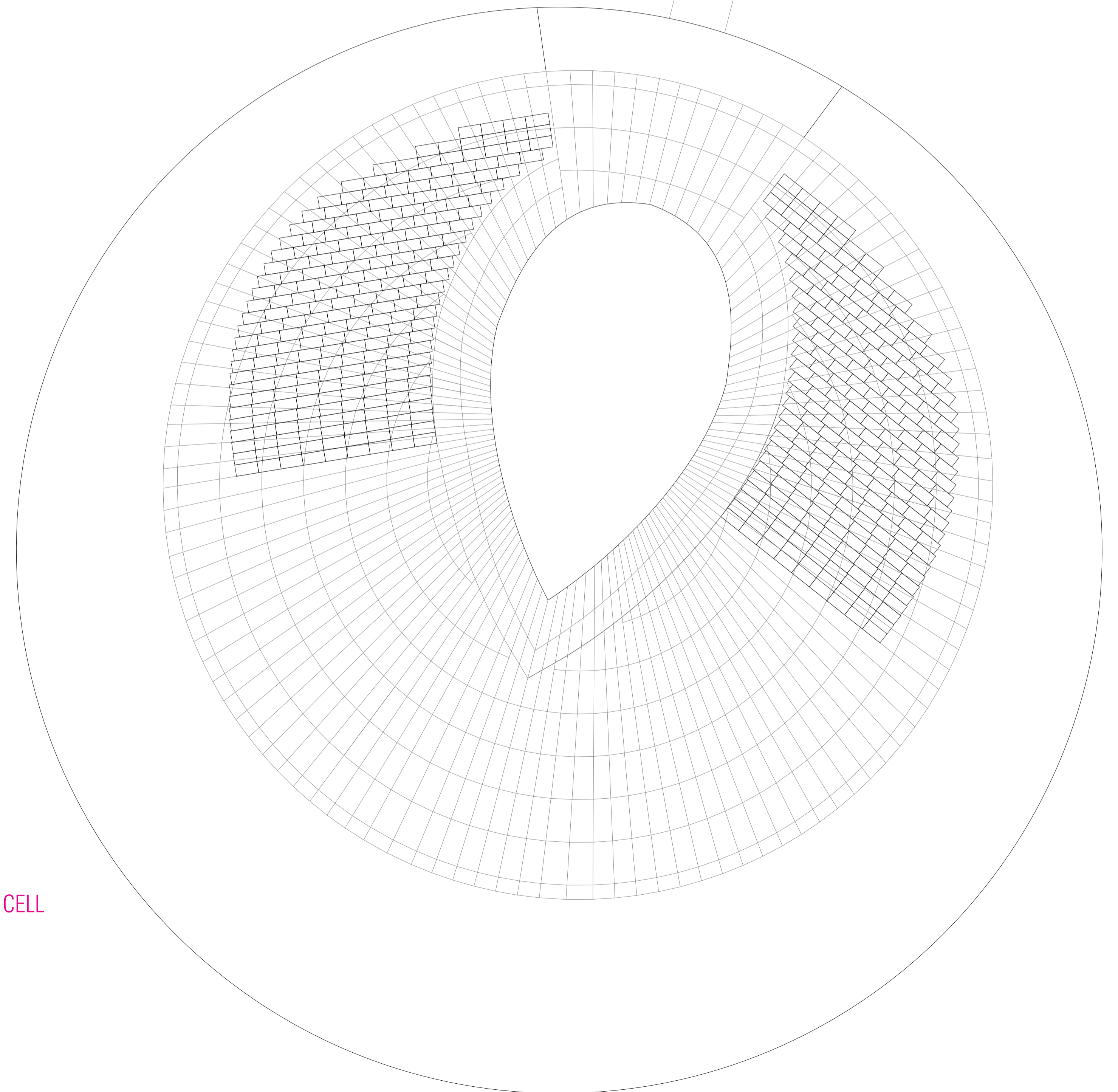
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ROOF PLANS

SCALE 1:200



/ GLASS PANEL LAYOUT /



/ PHOTOVOLTAIC CELL LAYOUT /

/ ZERO+ / CASCINA OF THE FUTURE

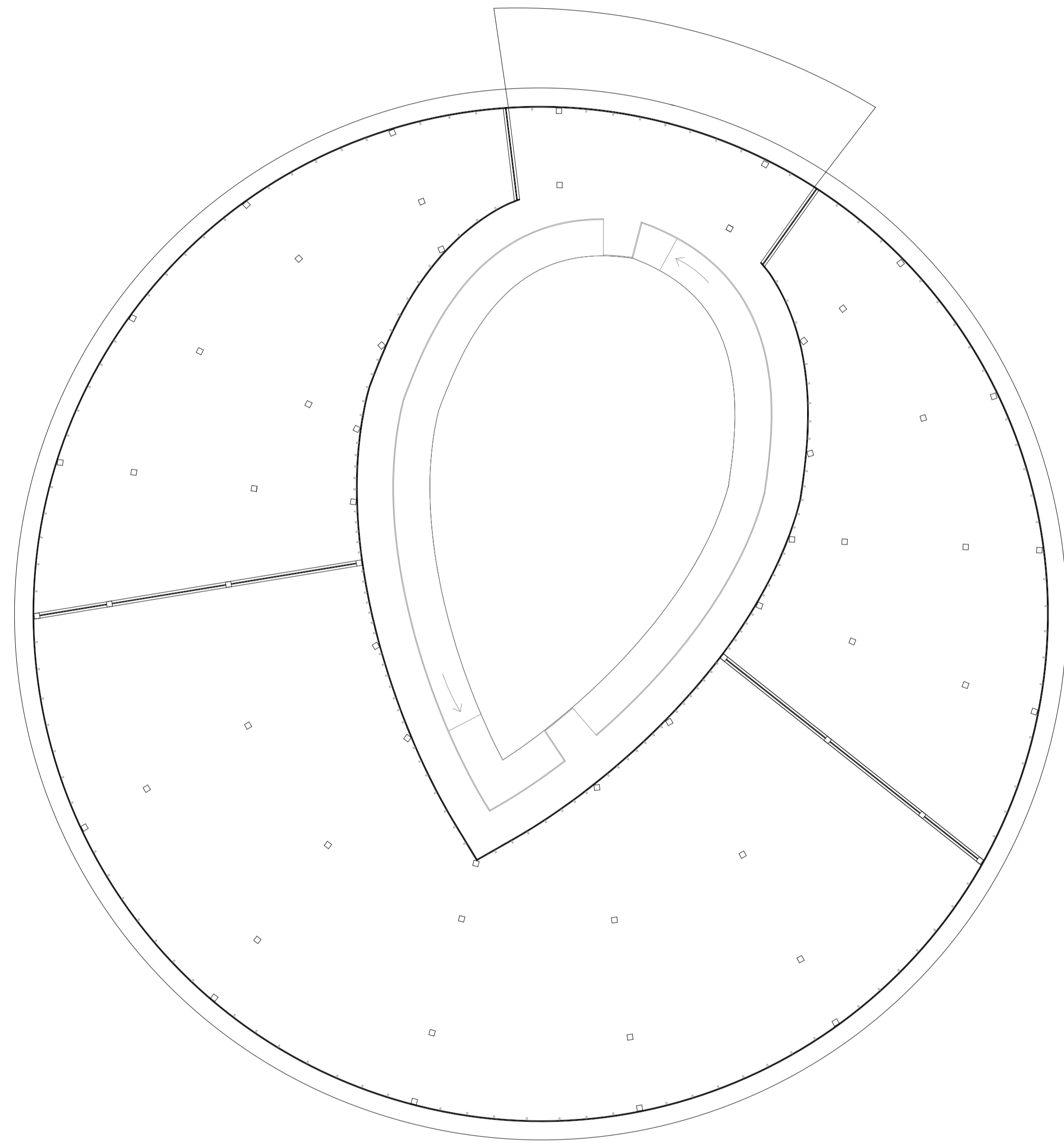
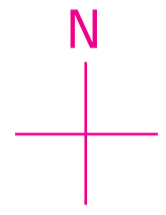
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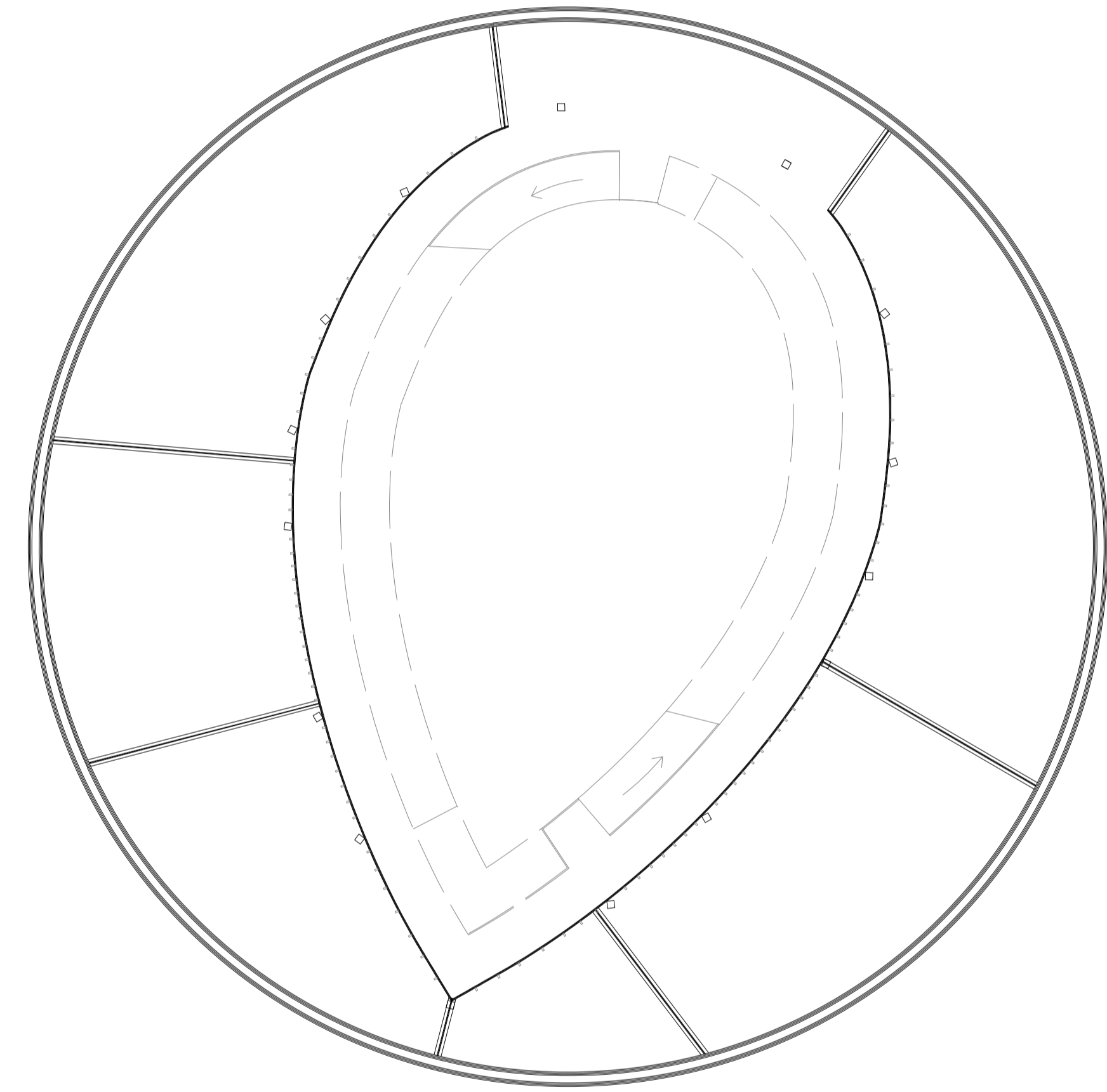
TUTORS: VALERIO SIGNORELLI / ROY NASH

BUILDING PLANS -1 FLOOR AND -2 FLOOR

SCALE 1:200



/ -1 FLOOR PLAN /



/ -2 FLOOR PLAN /

/ ZERO+ / CASCINA OF THE FUTURE

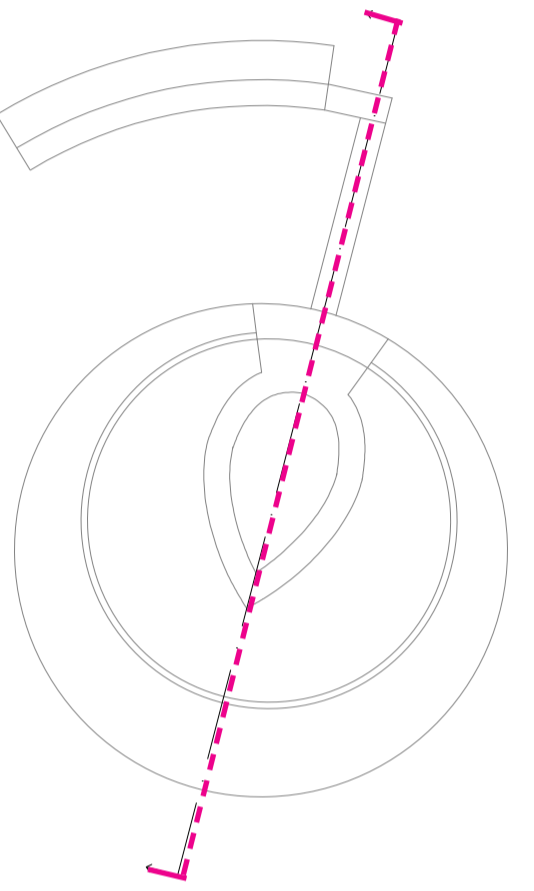
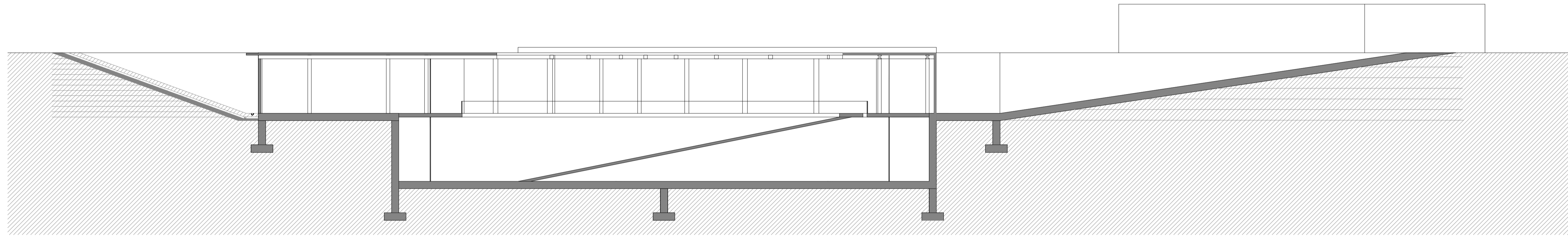
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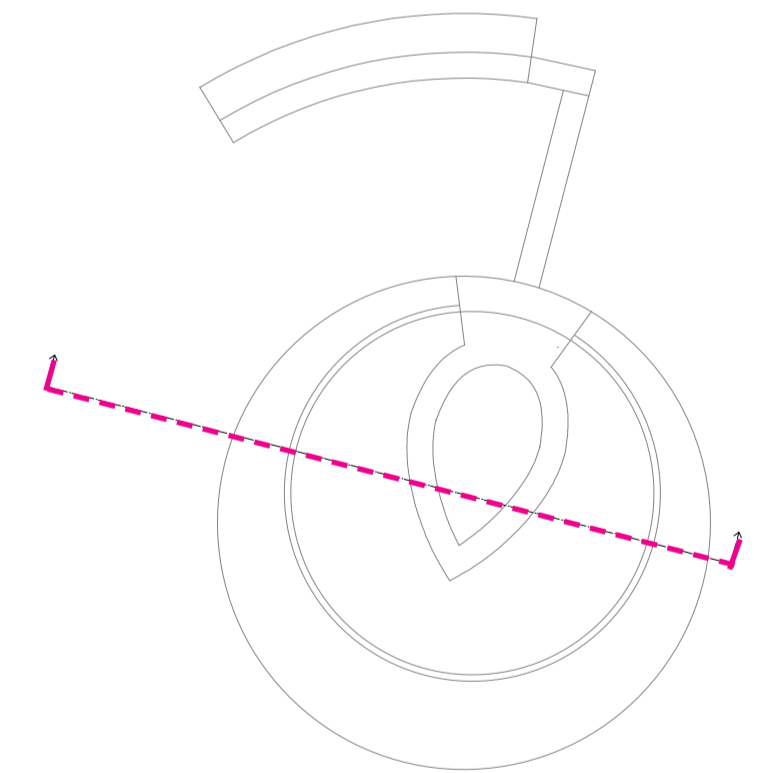
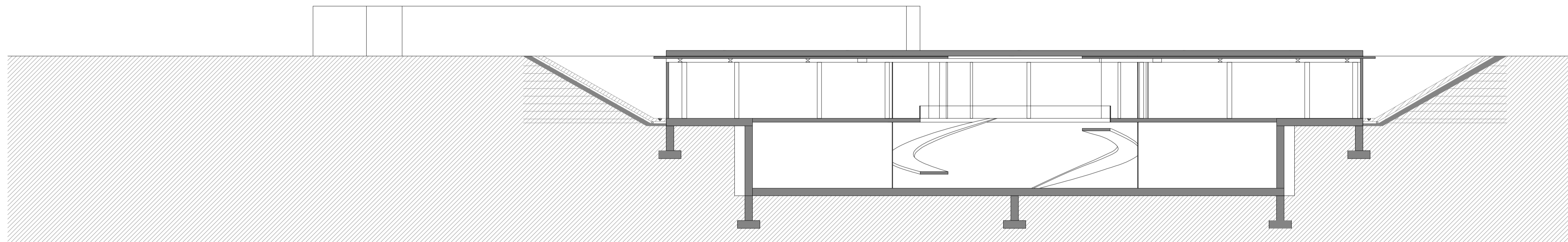
TUTORS: VALERIO SIGNORELLI / ROY NASH

BUILDING SECTIONS

SCALE 1:200



/ SECTION AA' /



/ SECTION BB' /

/ ZERO+ / CASCINA OF THE FUTURE

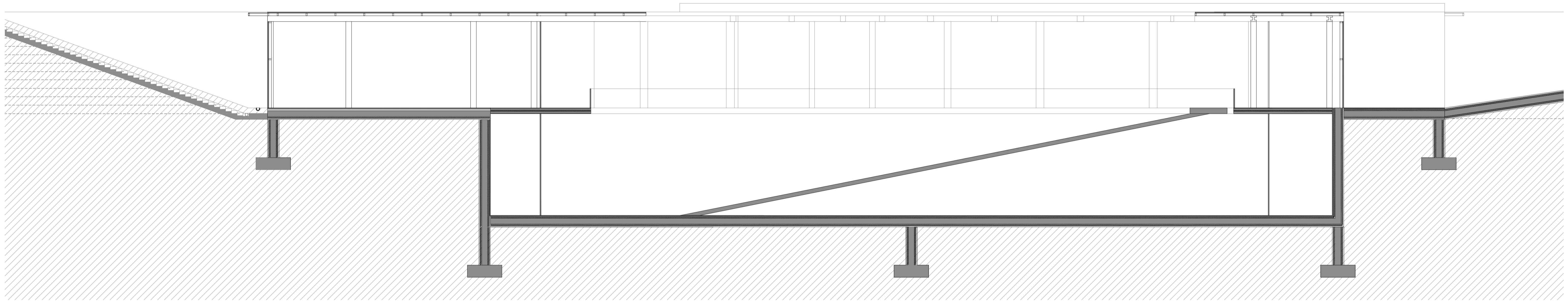
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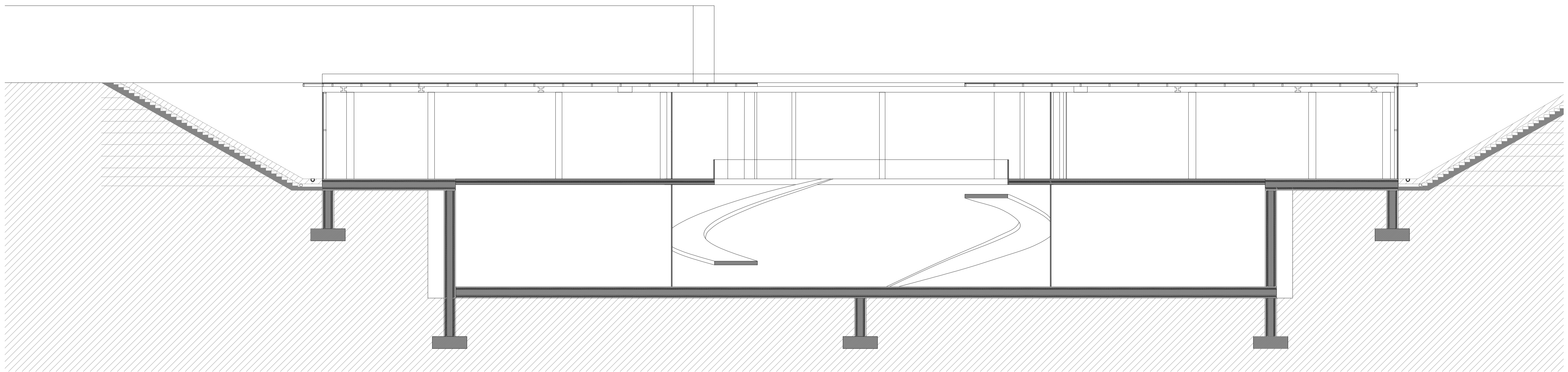
TUTORS: VALERIO SIGNORELLI / ROY NASH

BUILDING SECTIONS

SCALE 1:100



/ SECTION AA /



/ SECTION BB' /

/ ZERO+ / CASCINA OF THE FUTURE

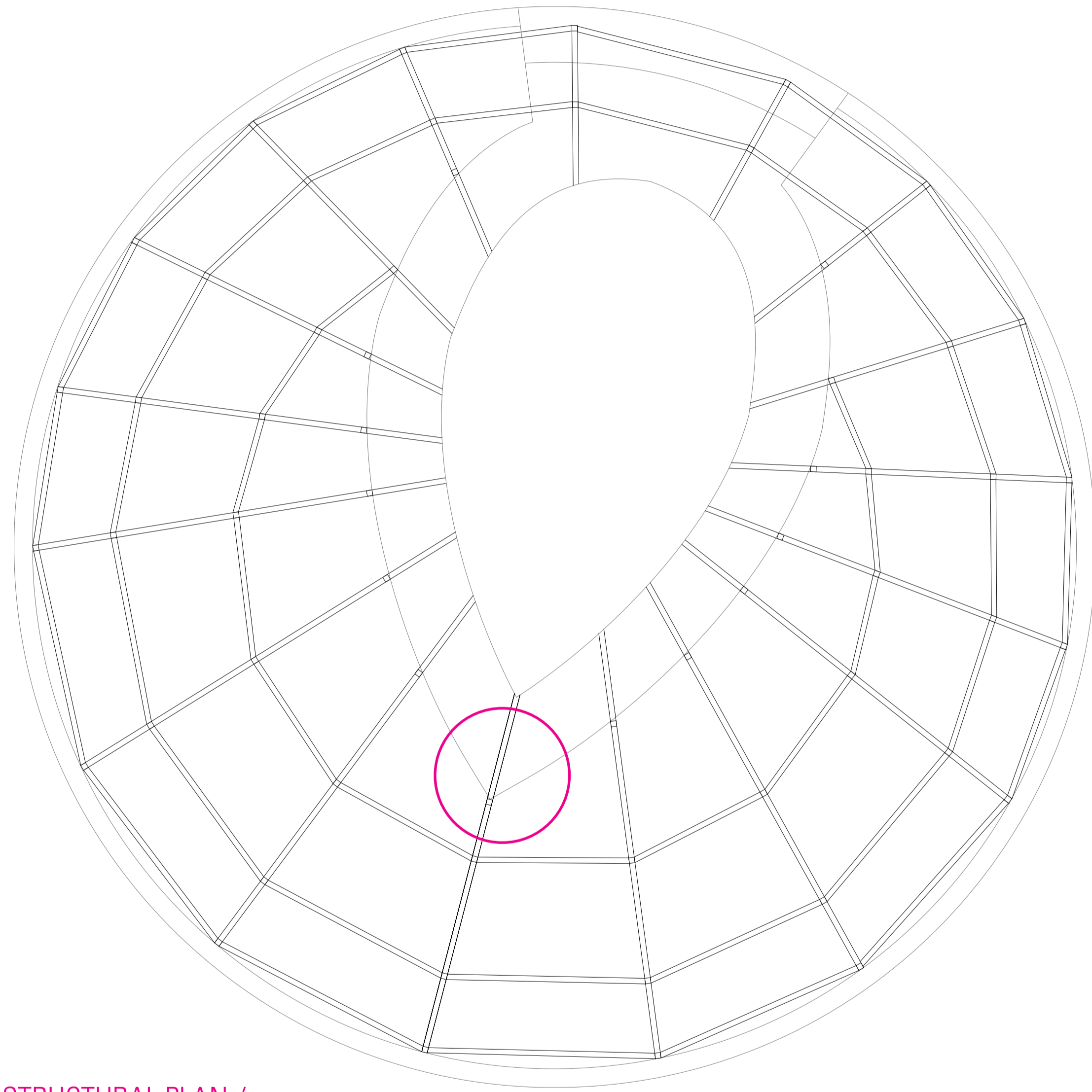
/ FALL 2013 / XIV /

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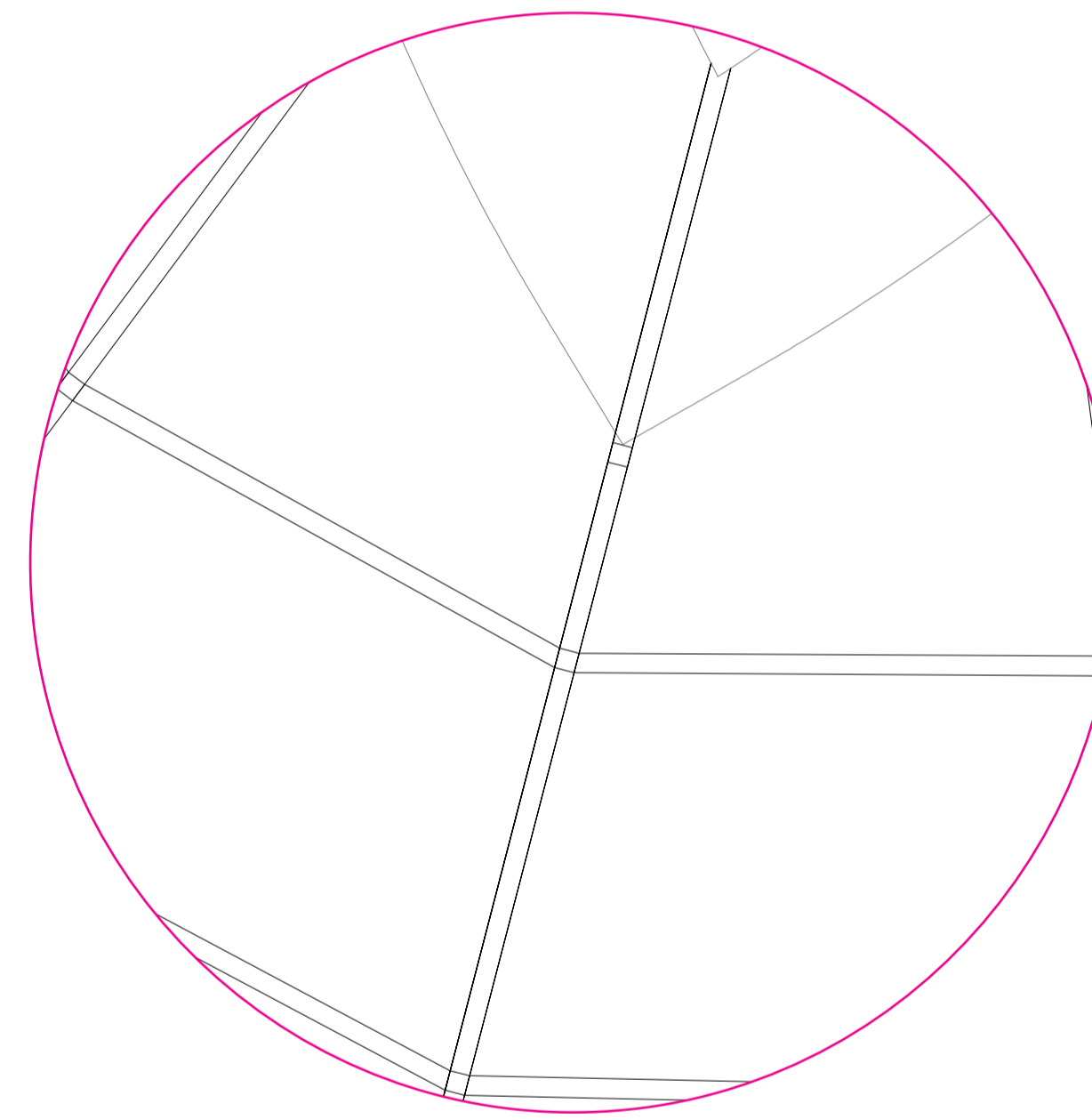
NI / TUTORS: VALERIO SIGNORELLI / ROY NASH

STRUCTURAL PLAN - 1:200

DETAILED SECTION - 1:20

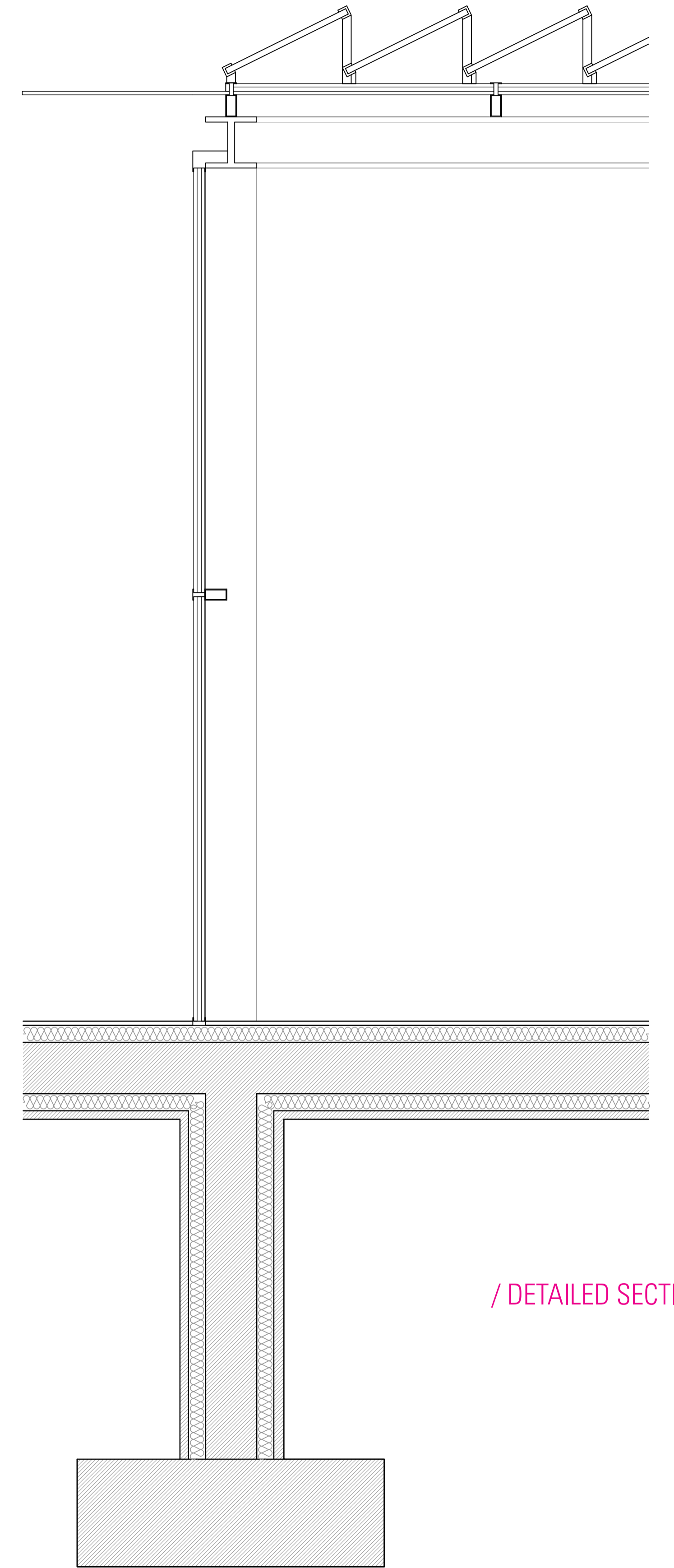


/ STRUCTURAL PLAN /



/ STRUCTURAL PLAN CLOSE-UP /

Scale 1:100



/ DETAILED SECTION /

/ ZERO+ / CASCINA OF THE FUTURE

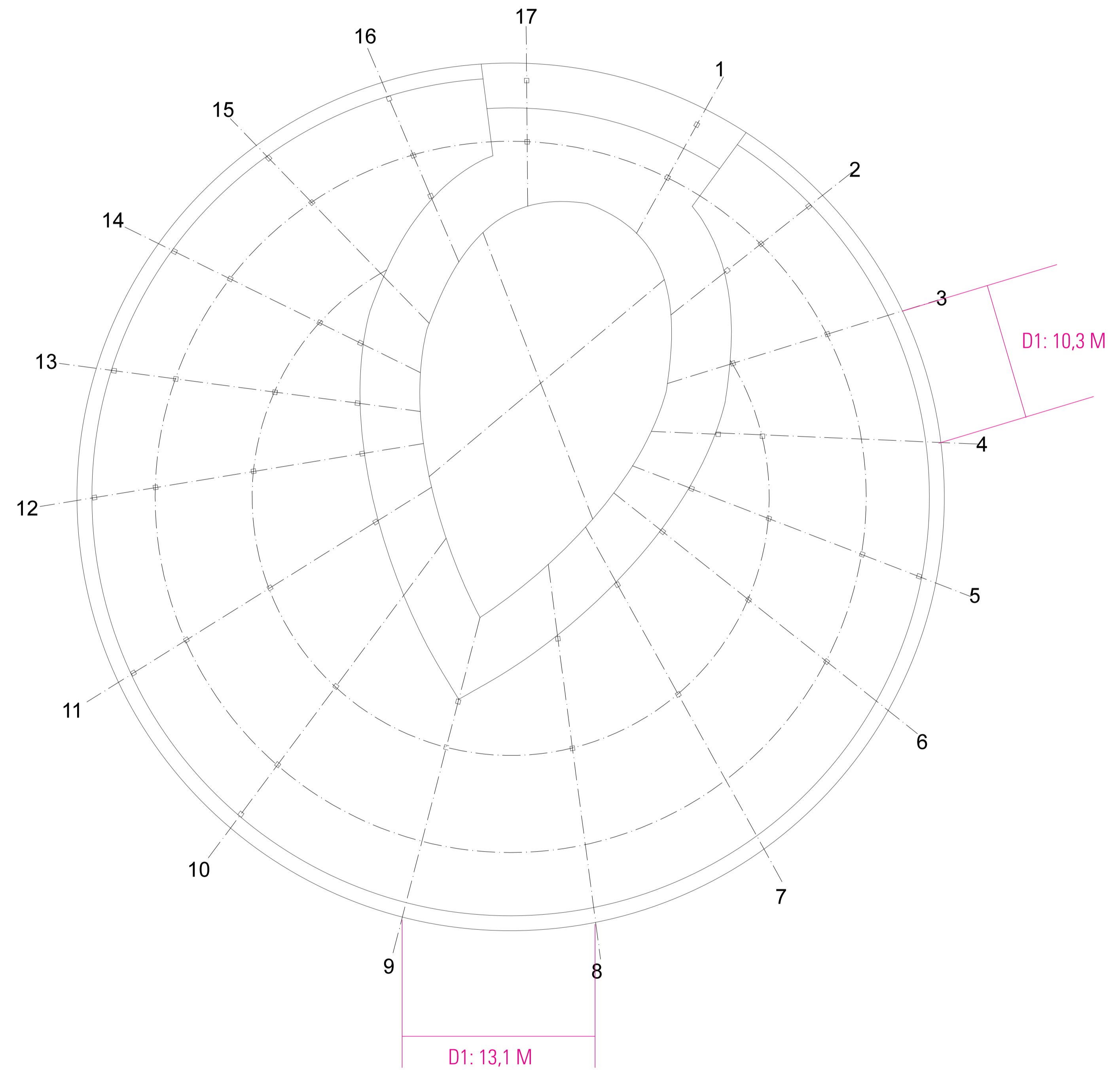
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STRUCTURAL PLAN WITH CENTRE LINES

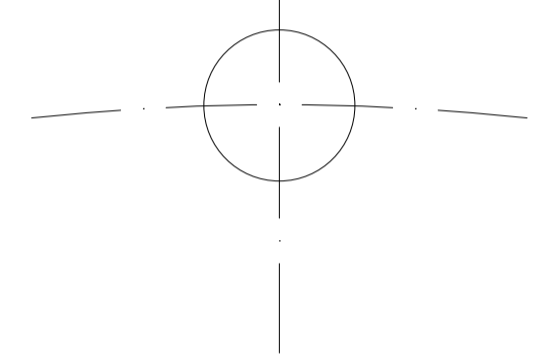
SCALE 1:100



/ LEGEND /

Scale 1:20

CL



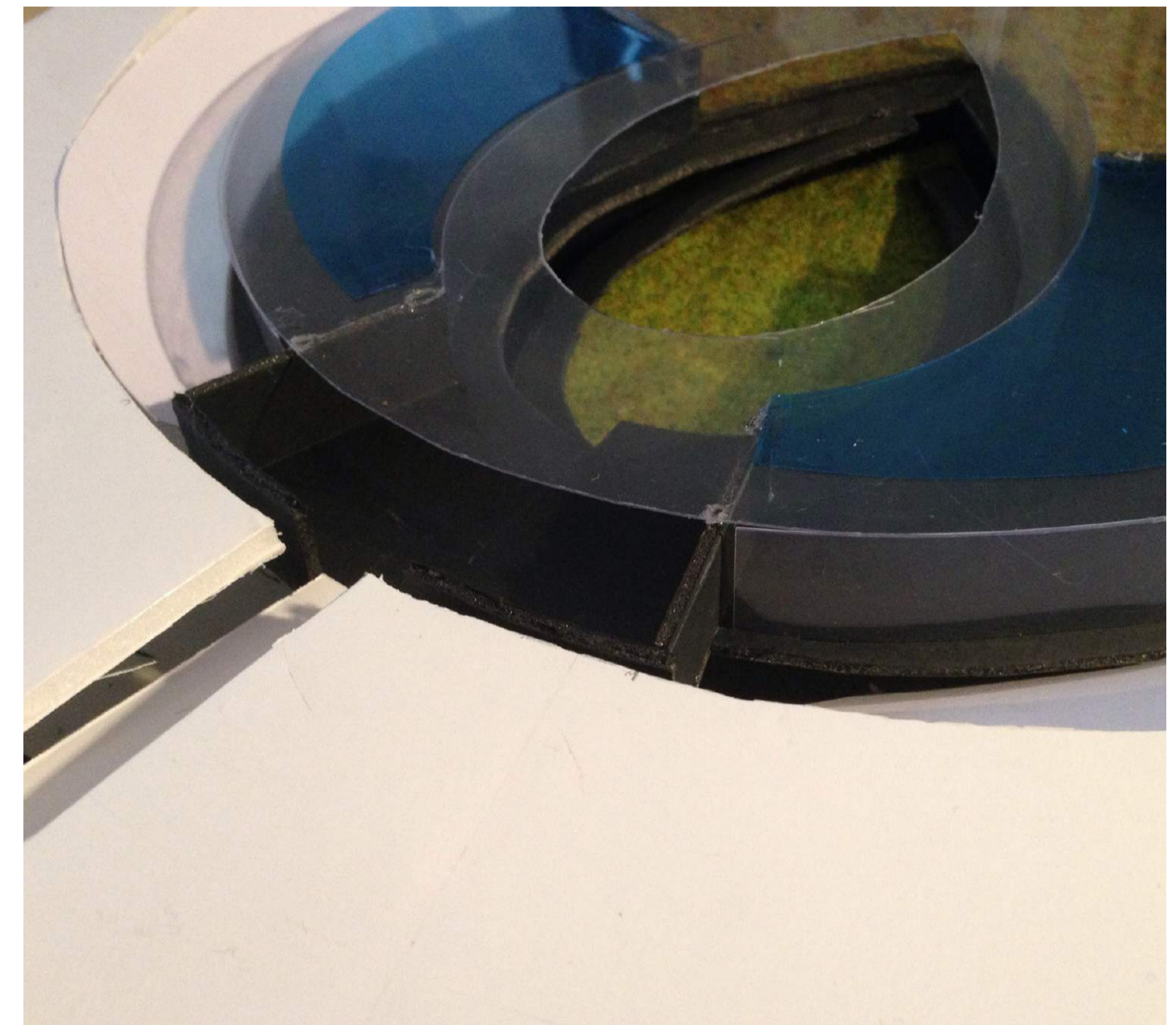
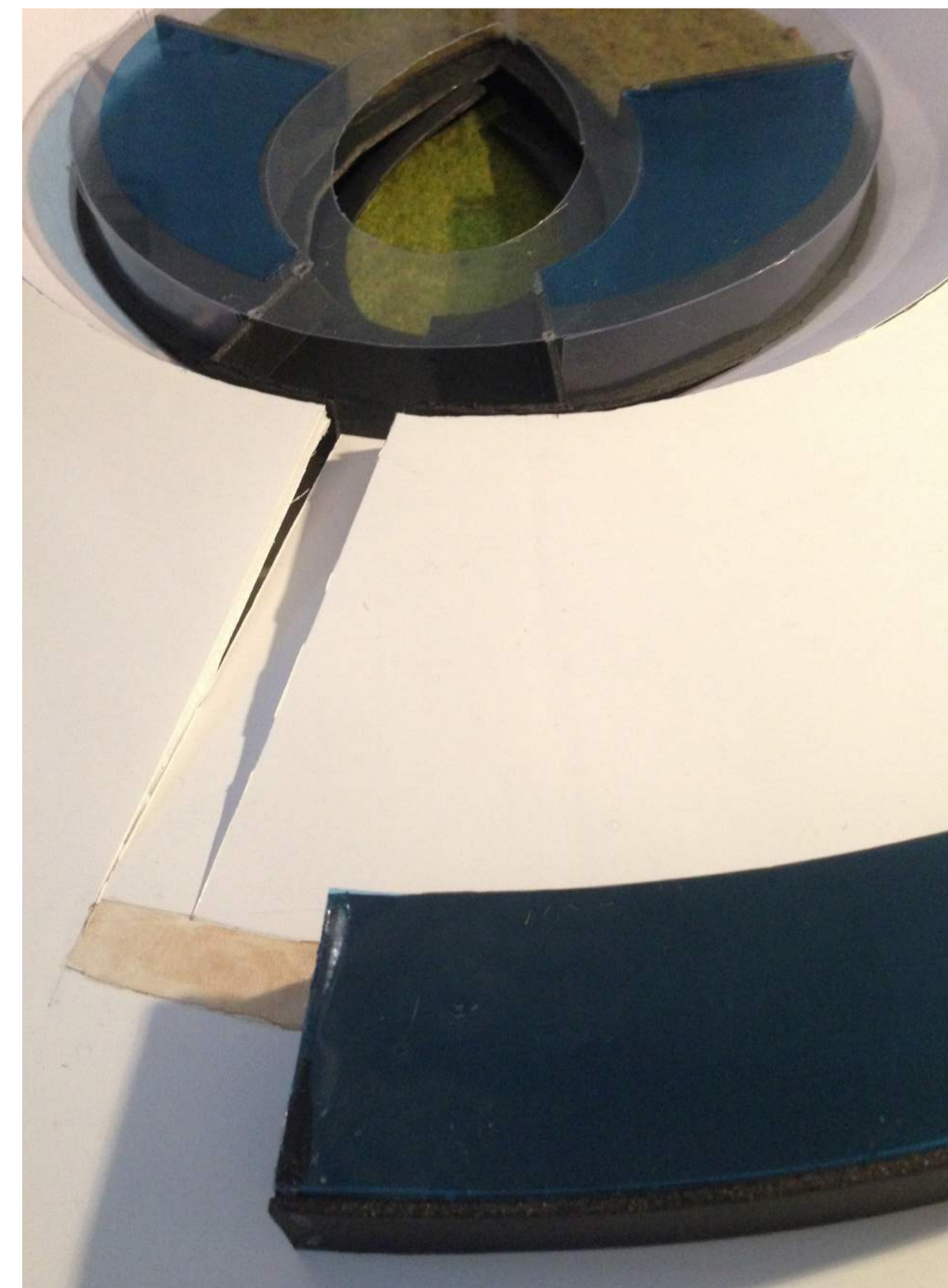
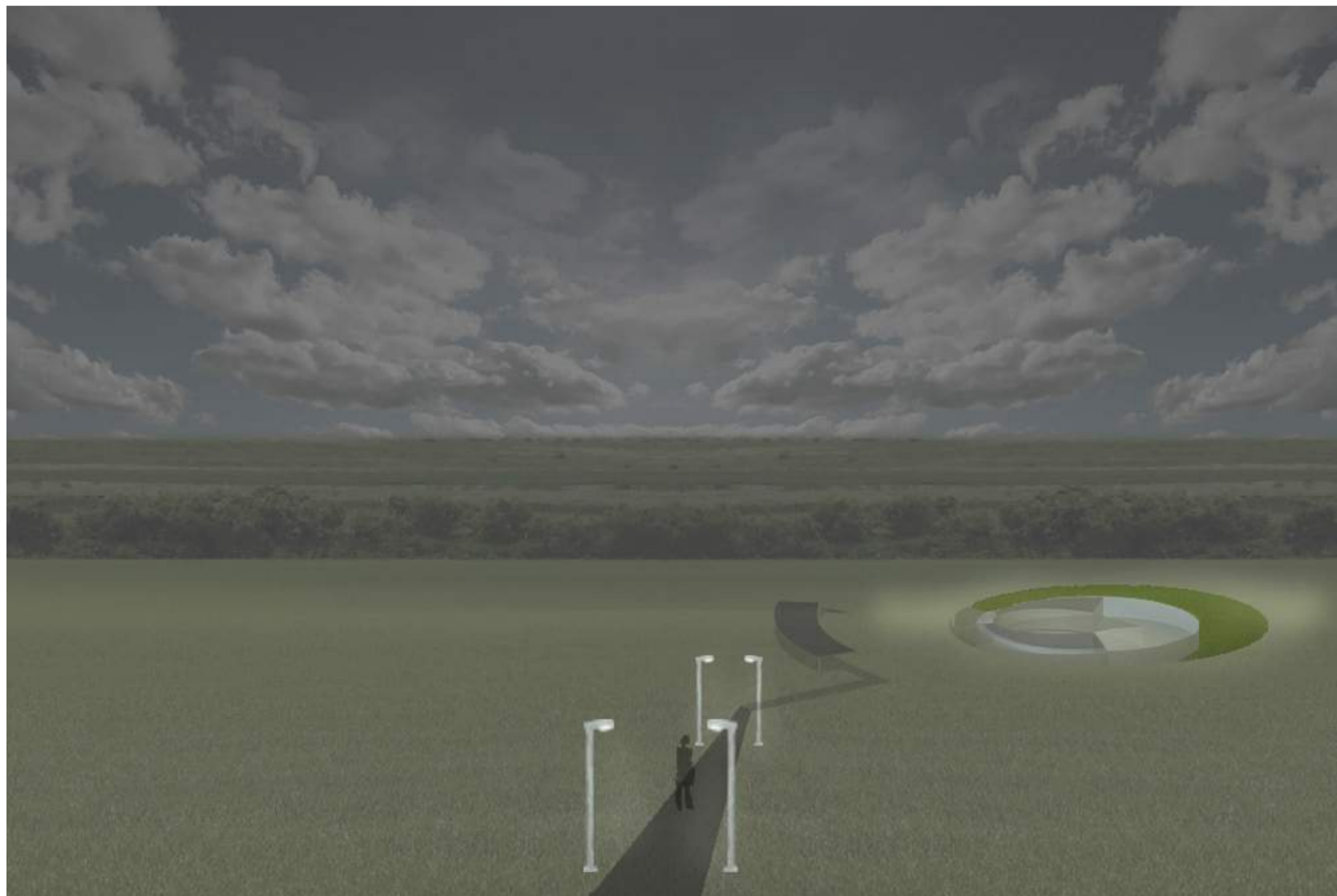
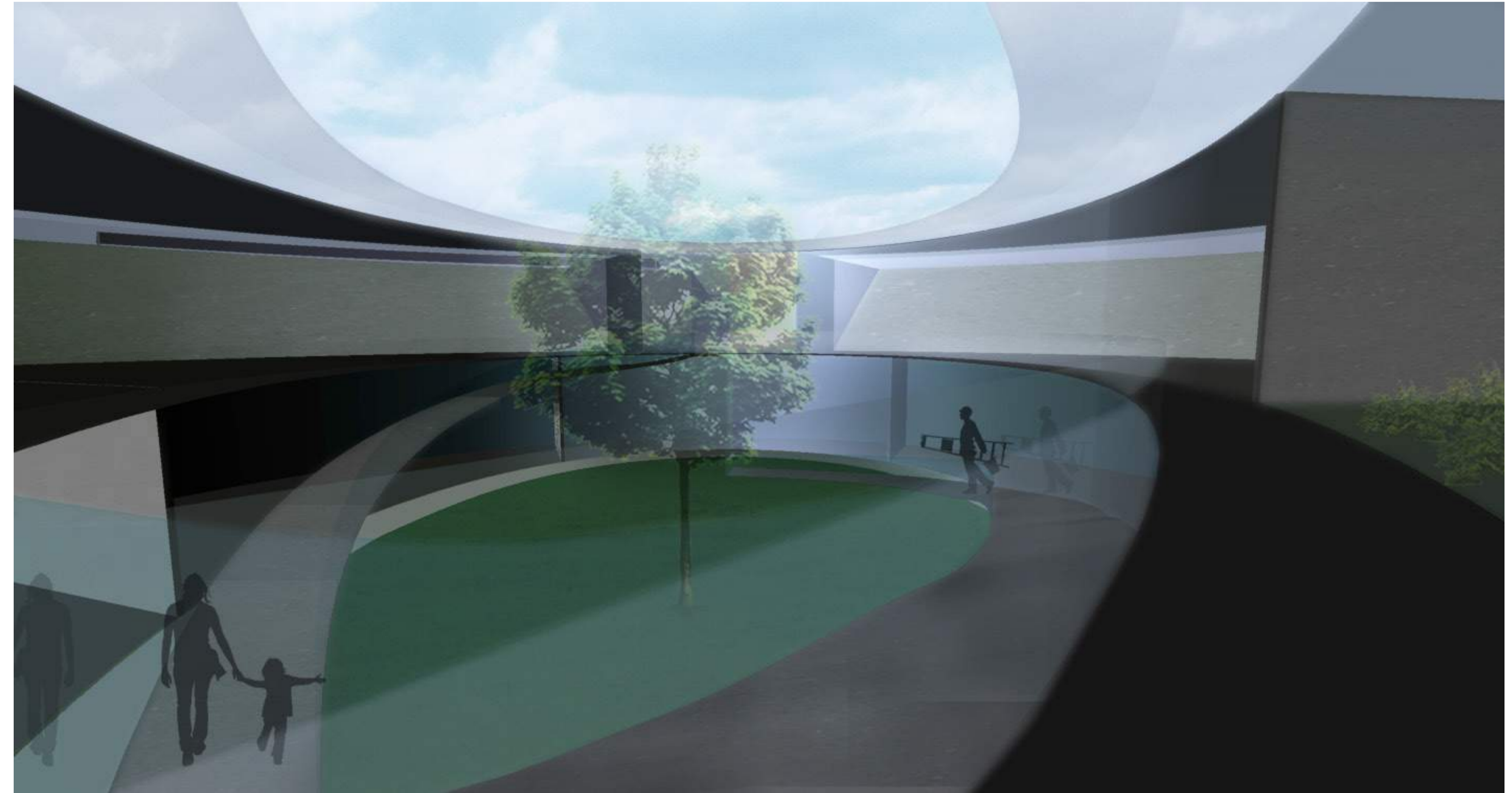
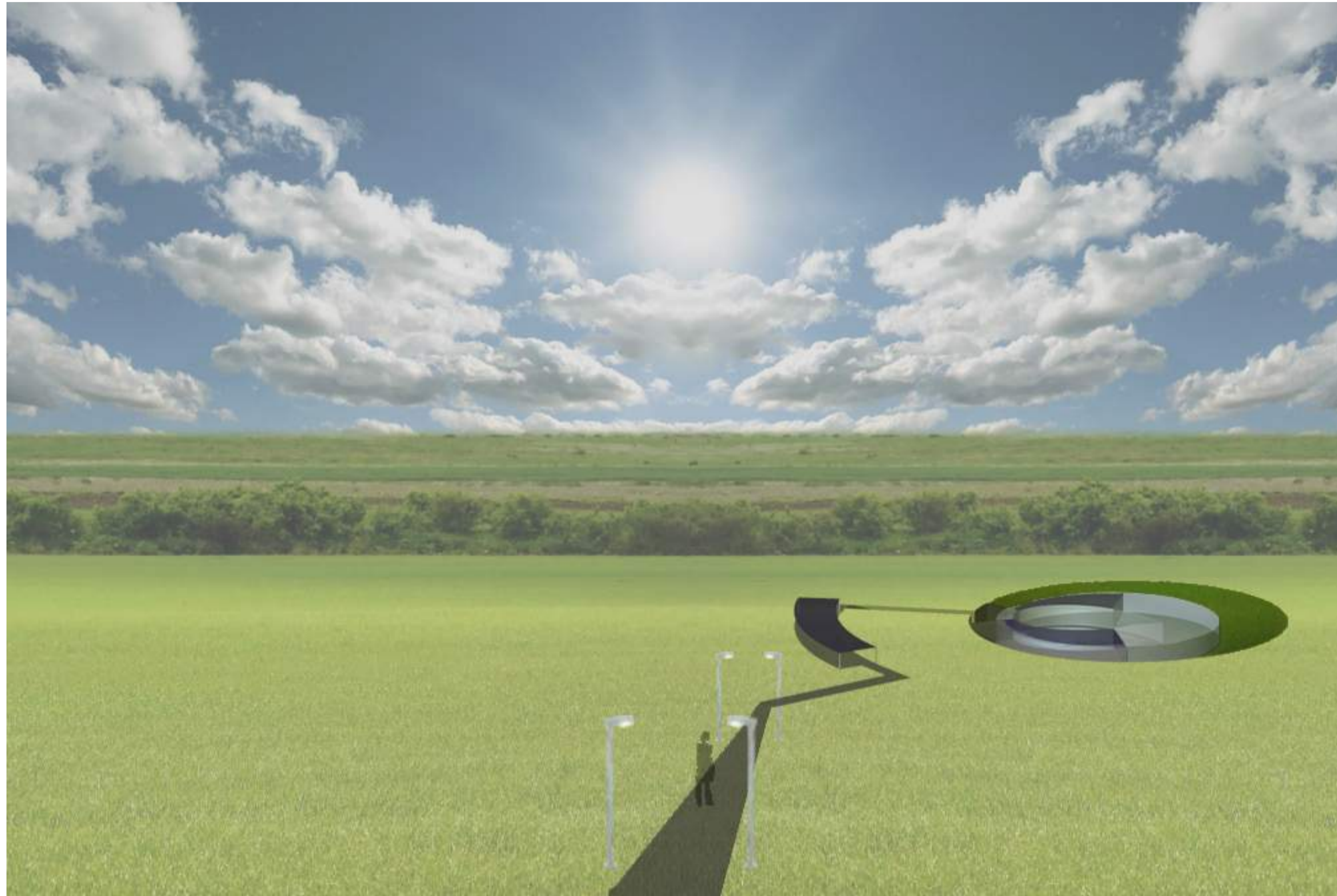
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3D RENDERS

PHYSICAL MODEL



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OVERALL SITE PLAN

