

Region Hovedstaden Nyt Hospital Nordsjælland

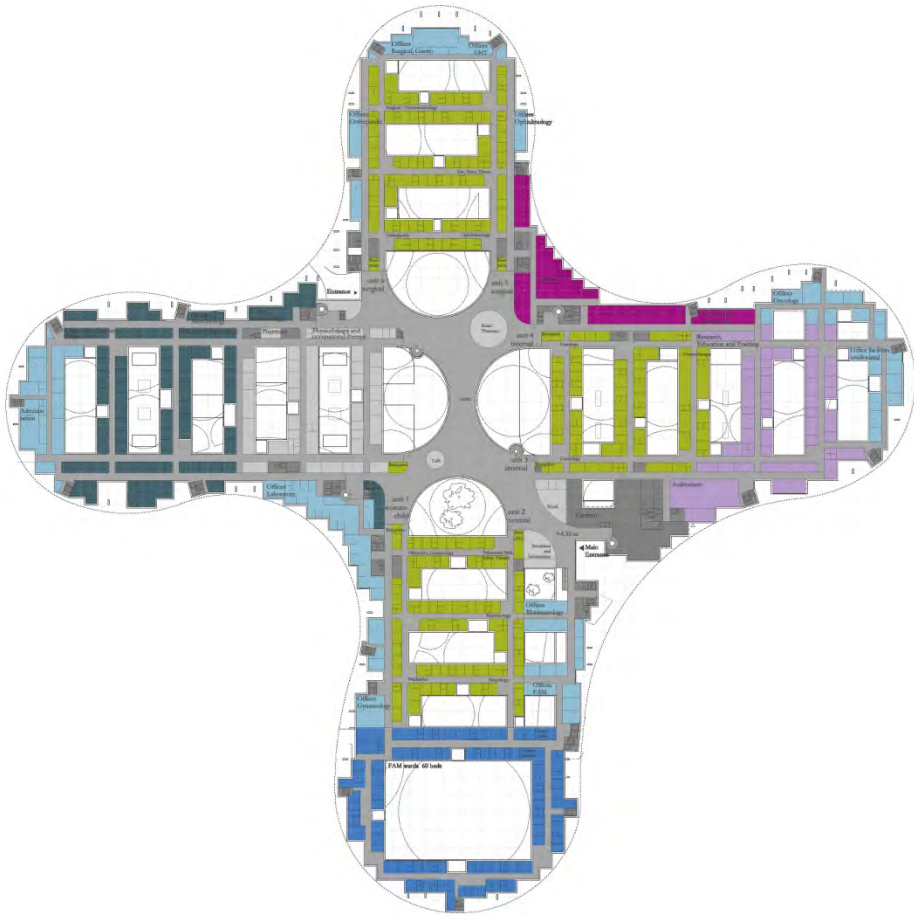
Revised Outline Proposal Presentation, 20.05.2016



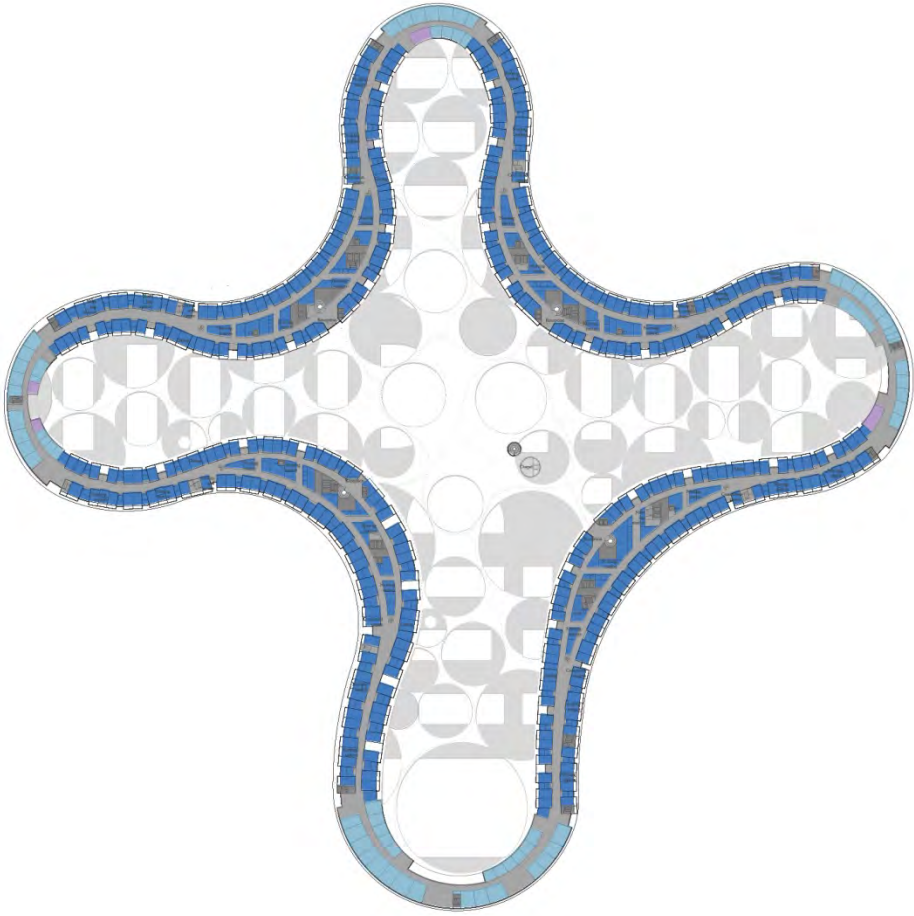




Competition Plan

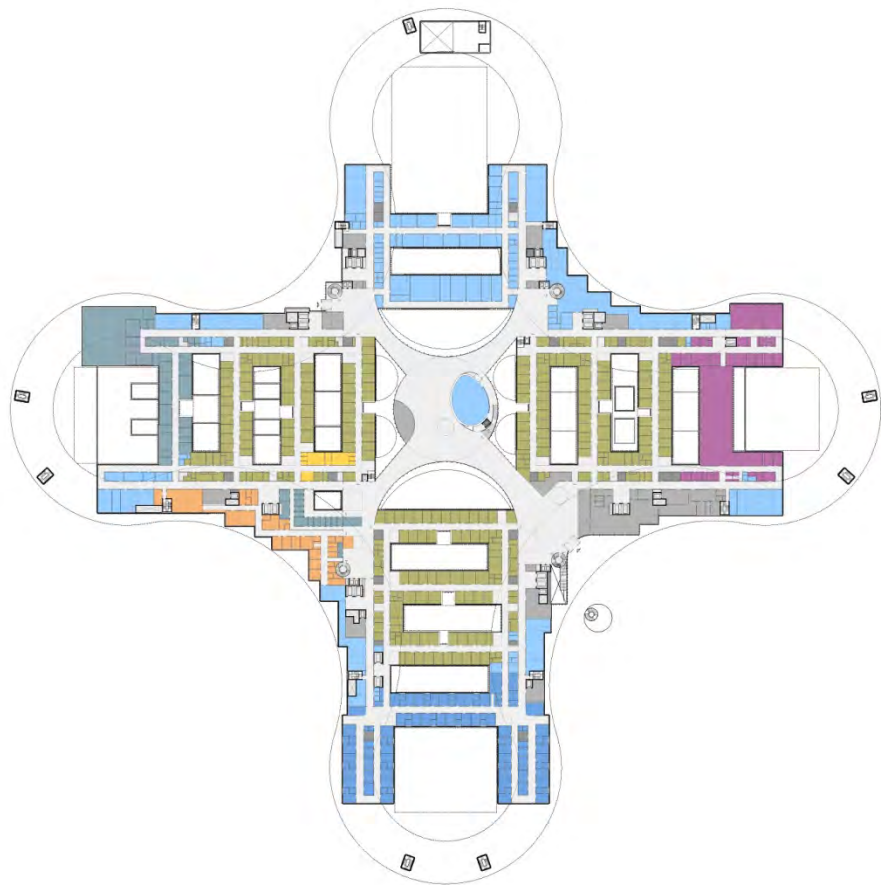


LEVEL 1

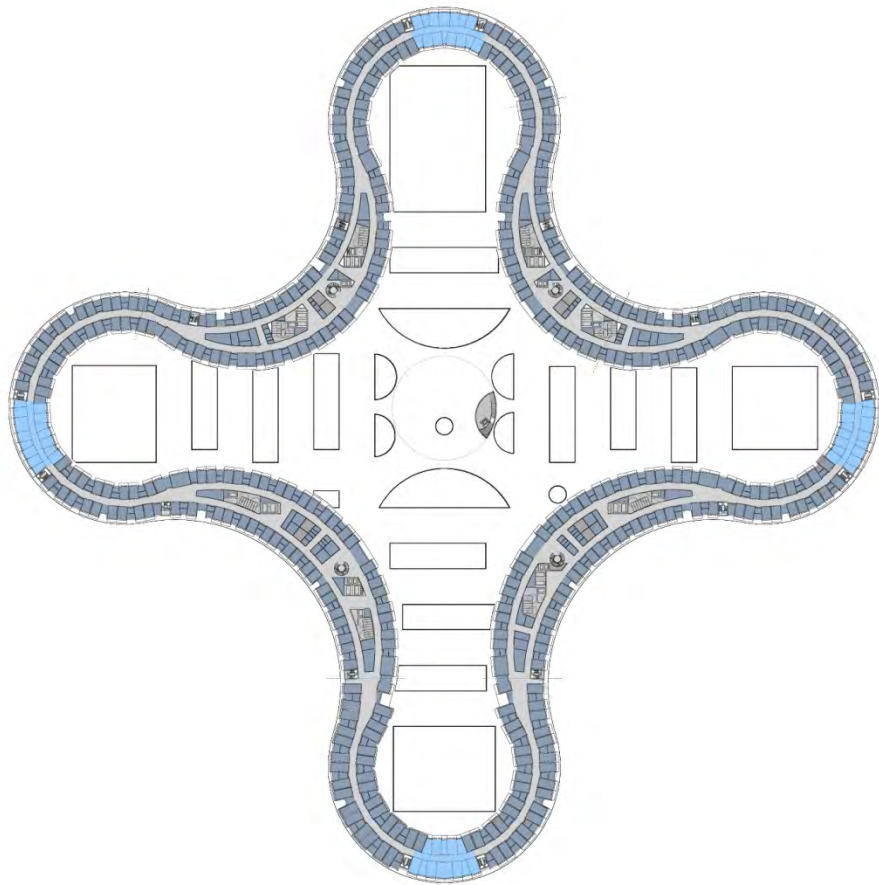


LEVEL 2/3

100% Outline Proposal Plan

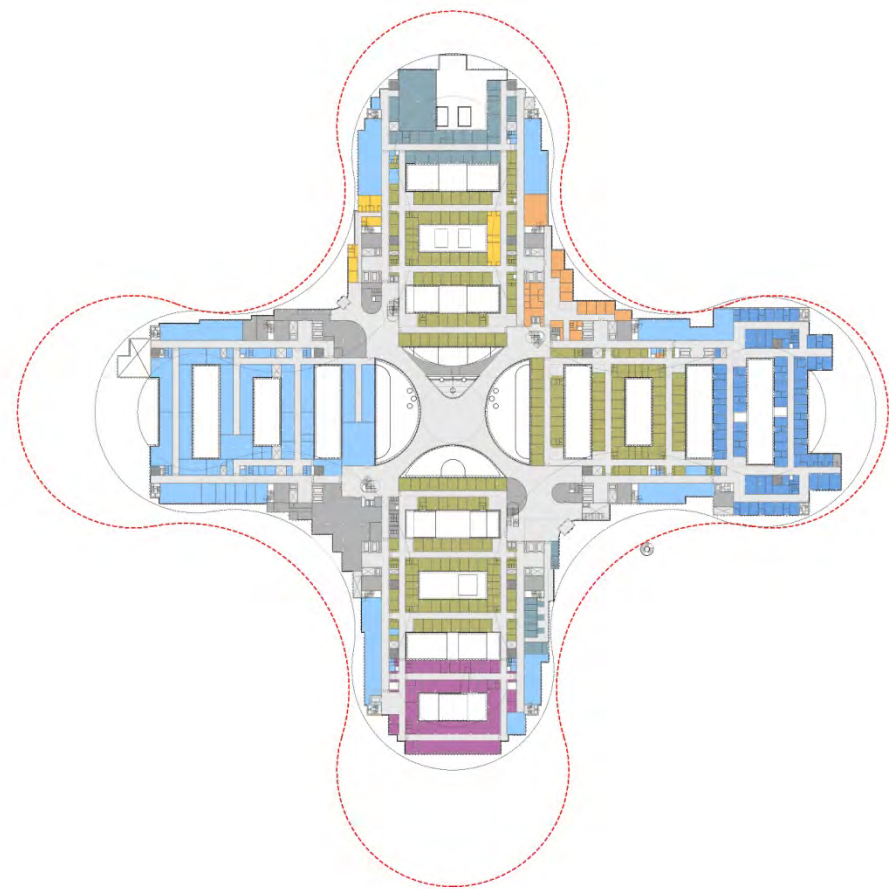


LEVEL 1

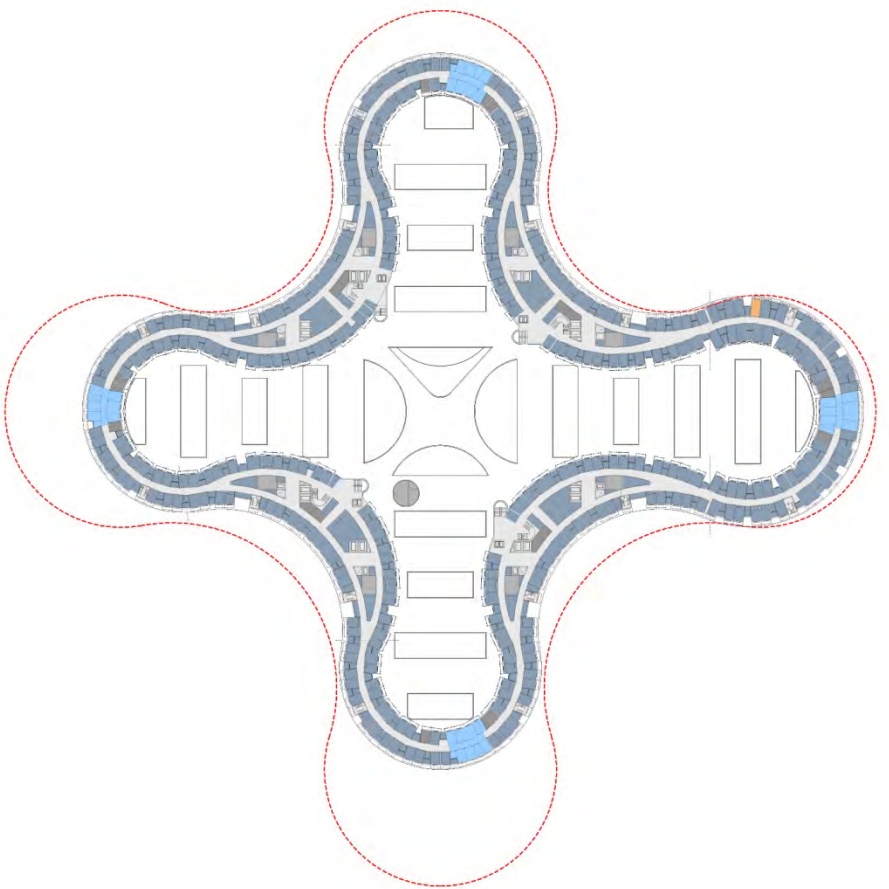


LEVEL 2/3

Consolidation Phase Plan



LEVEL 1



LEVEL 2/3

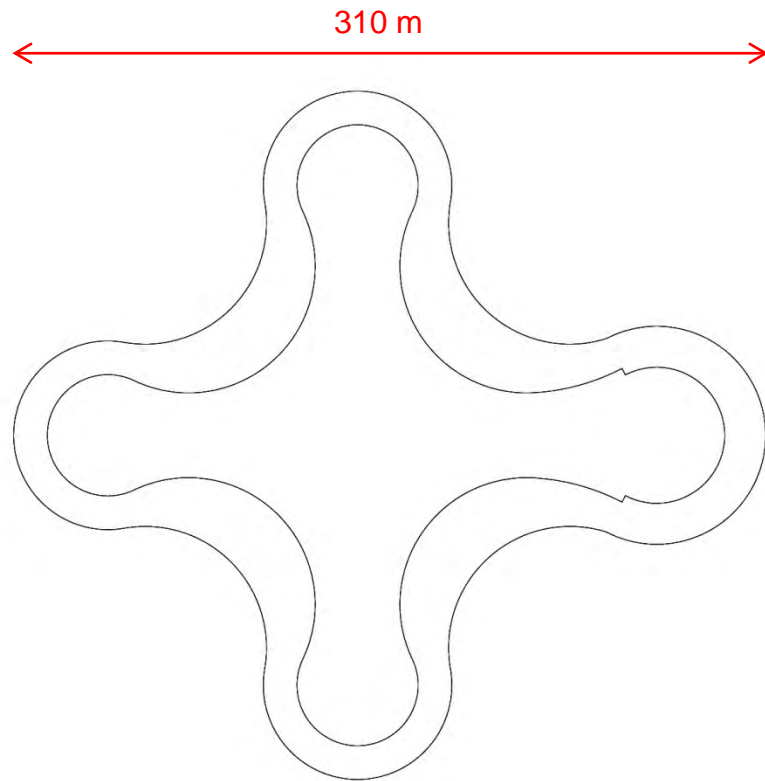
100% Outline Proposal



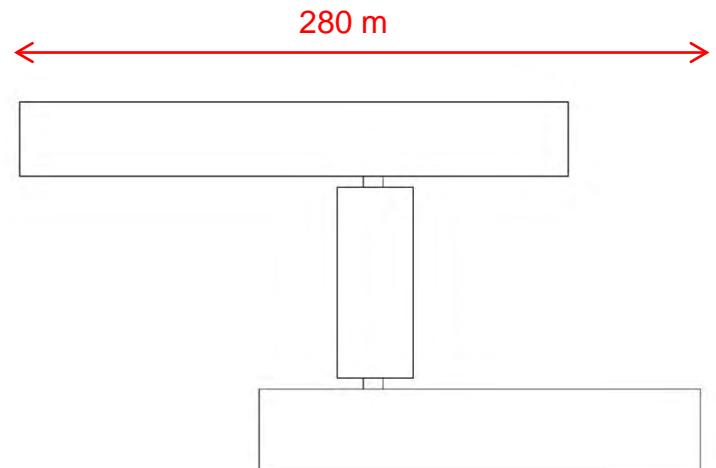
Consolidation Phase



Scale Comparison

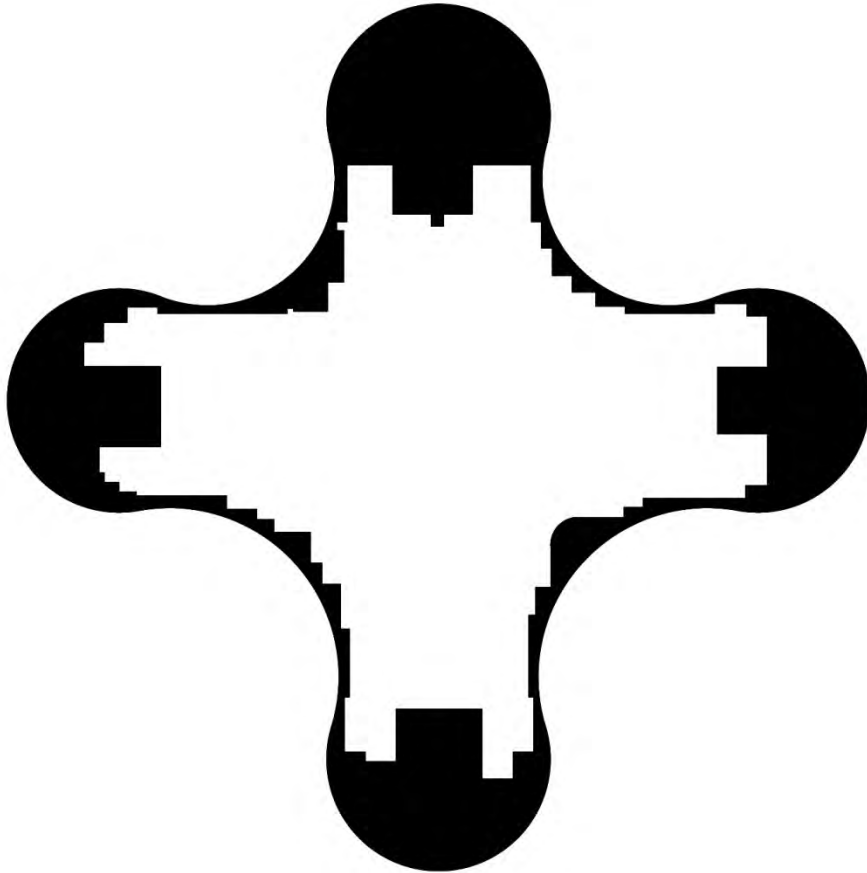


LEVEL 2/3



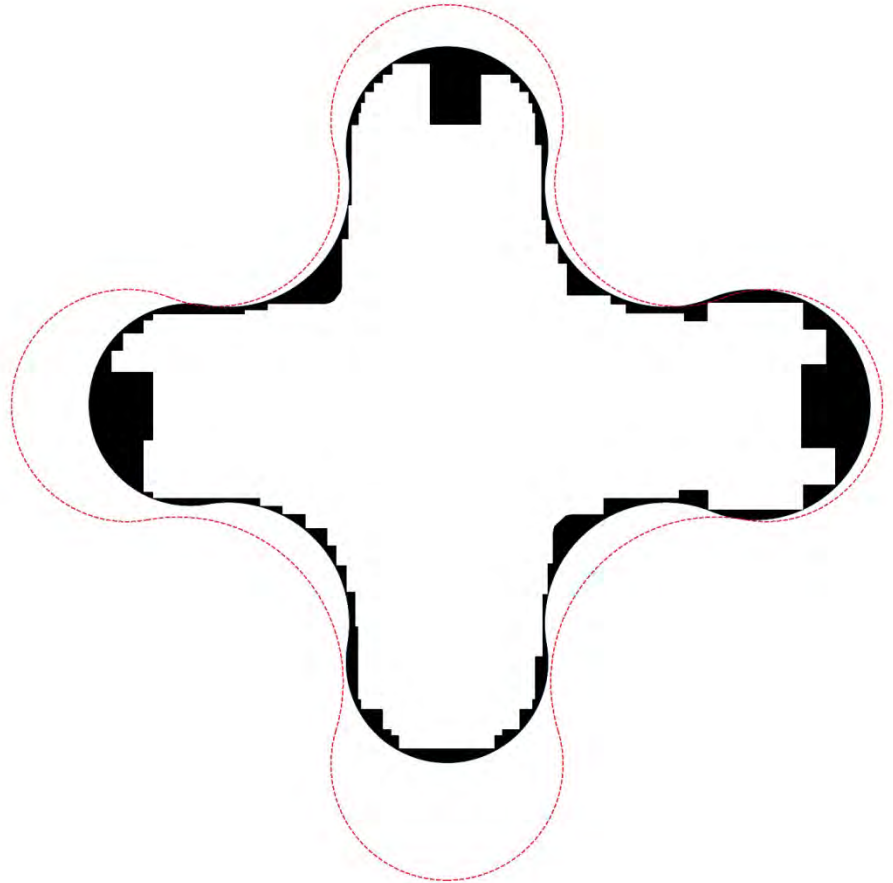
Rigshospitalet

Geometry Revision



Exposed slab: 11520 m²

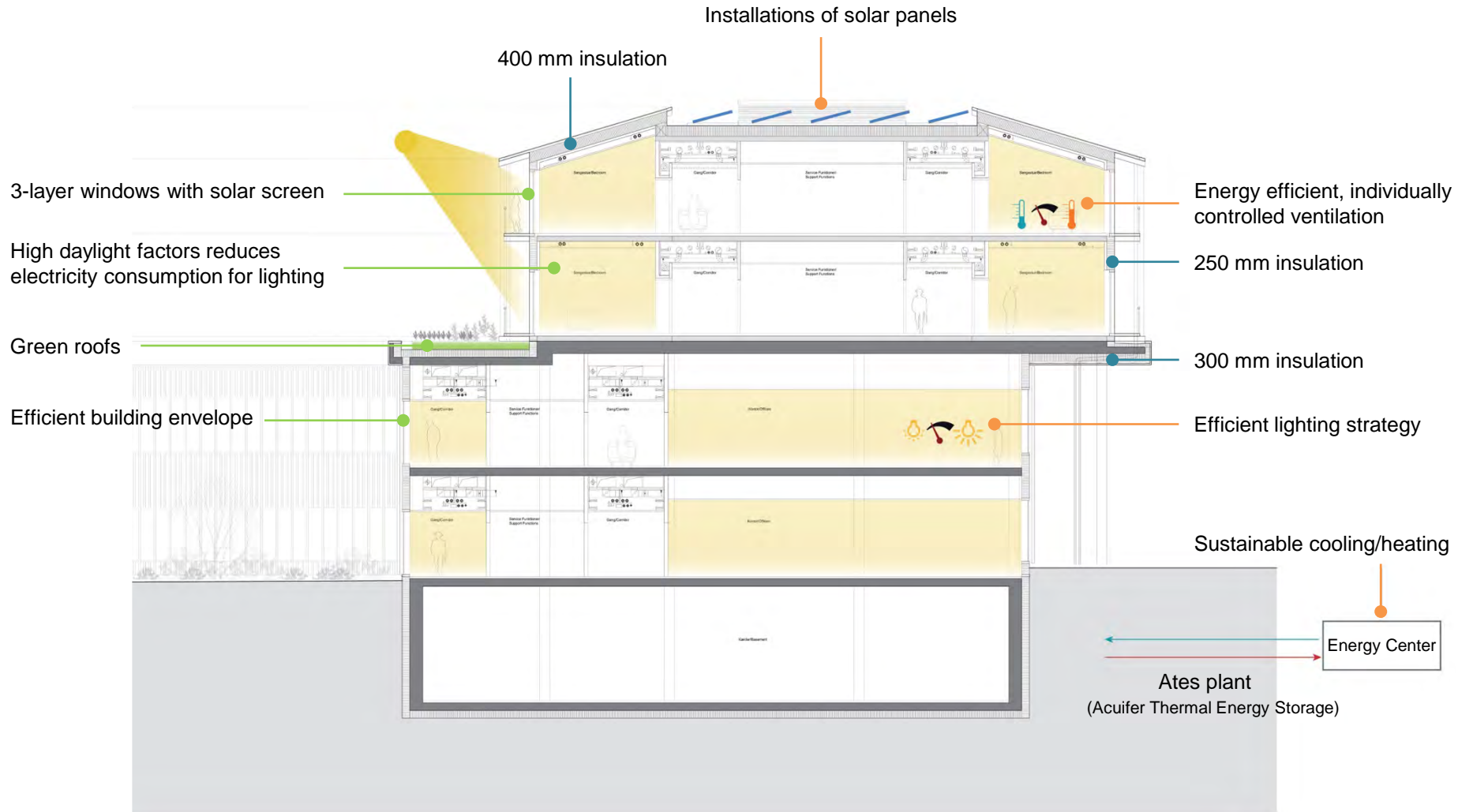
100 % Outline proposal layouts



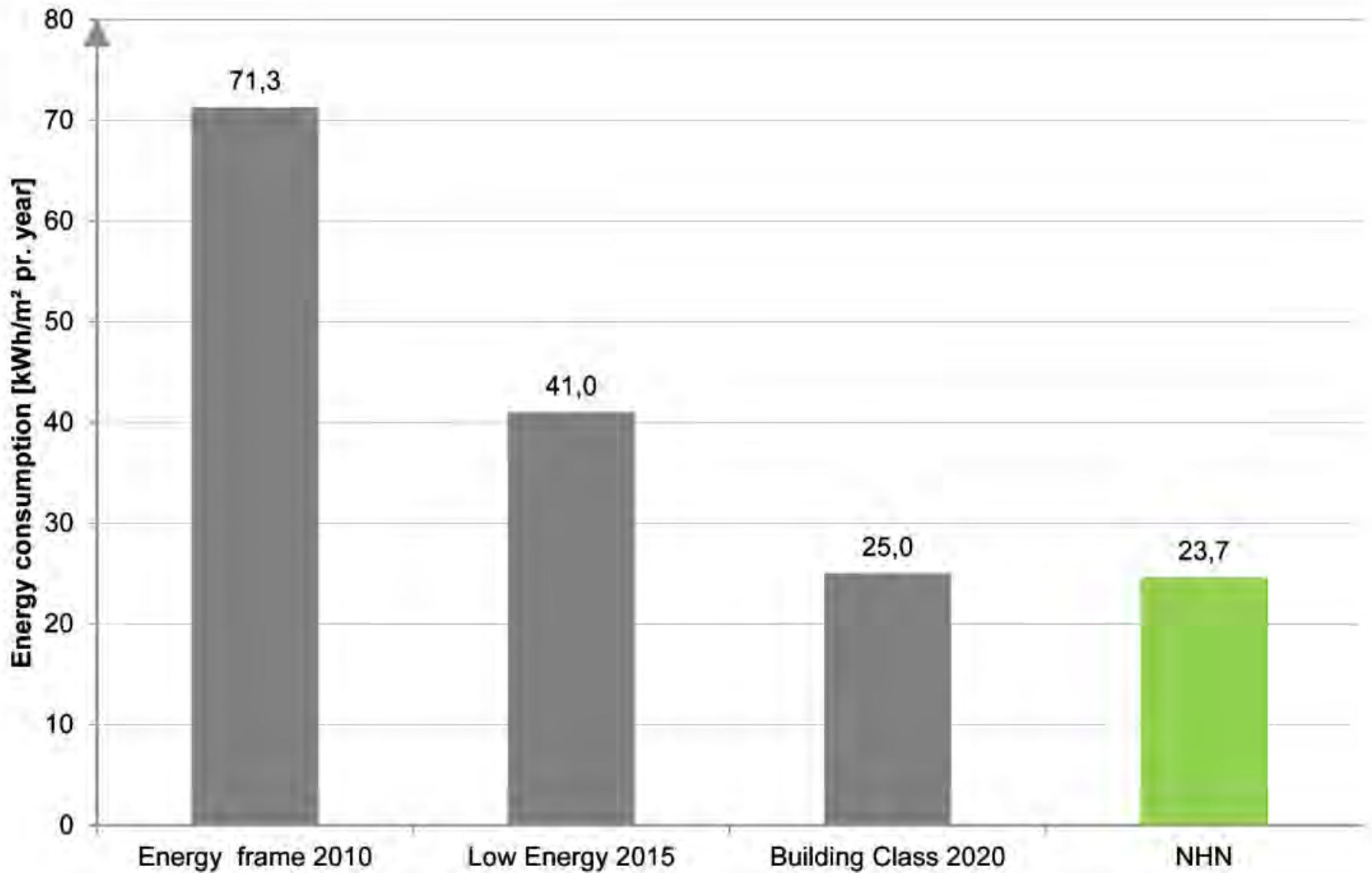
Exposed slab: 5130 m²

Consolidation phase layouts

Sustainability Concept



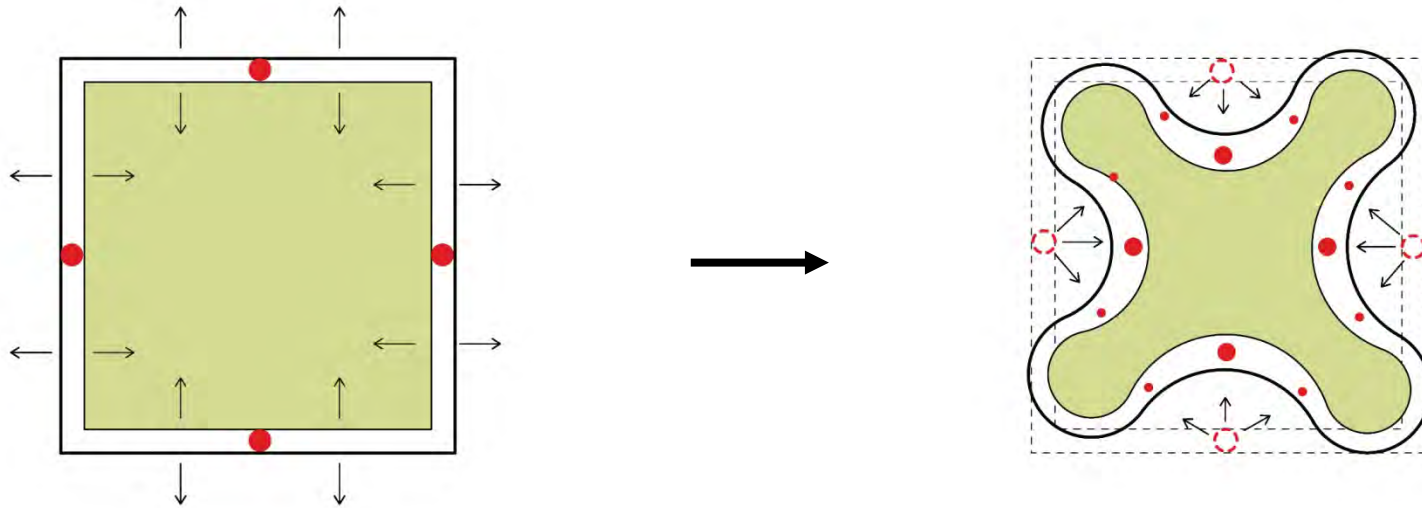
Energy Calculation with Be10



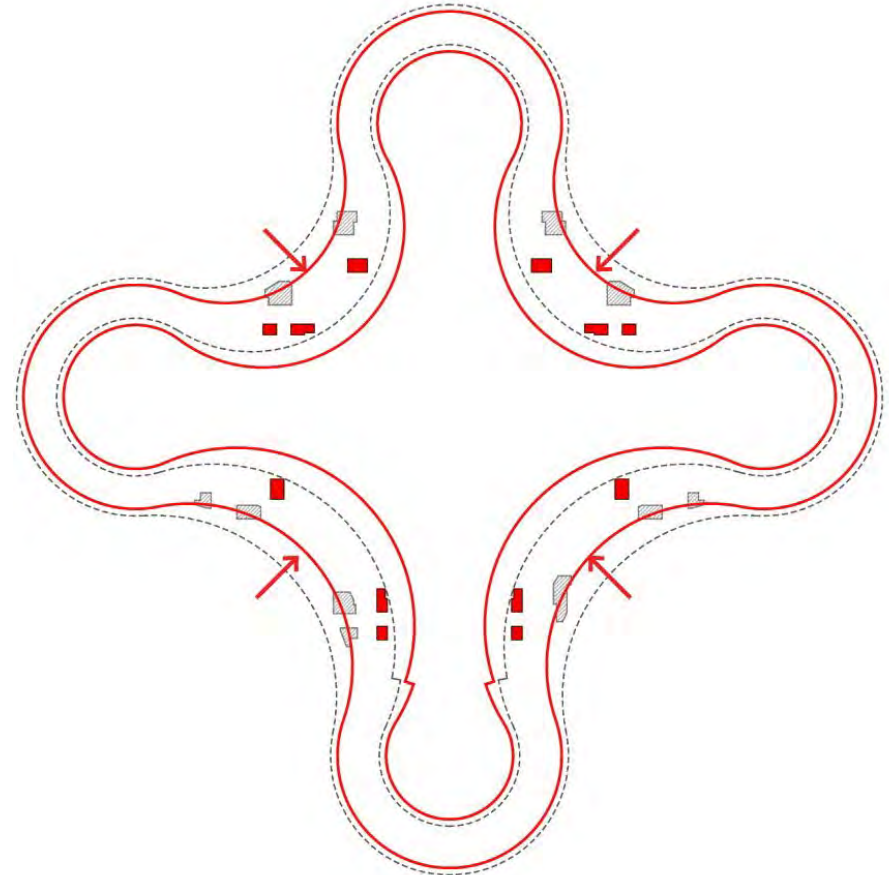
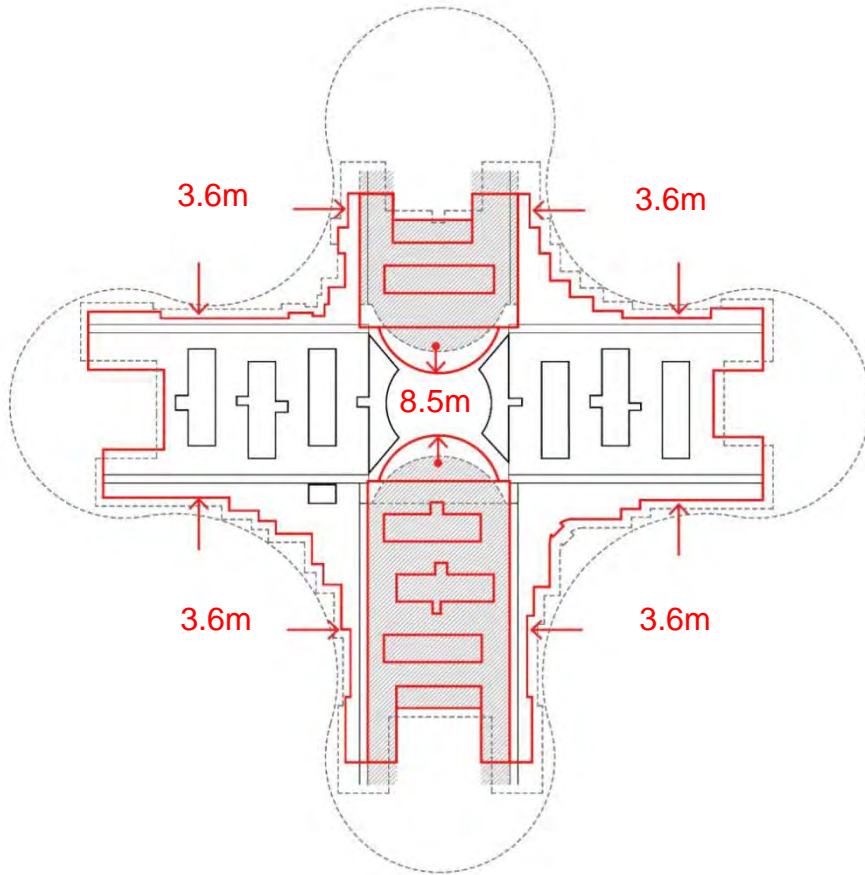
Concept

The plan is the marriage of two contradictory needs:

The desire for a large central garden and the necessity for short internal connections.

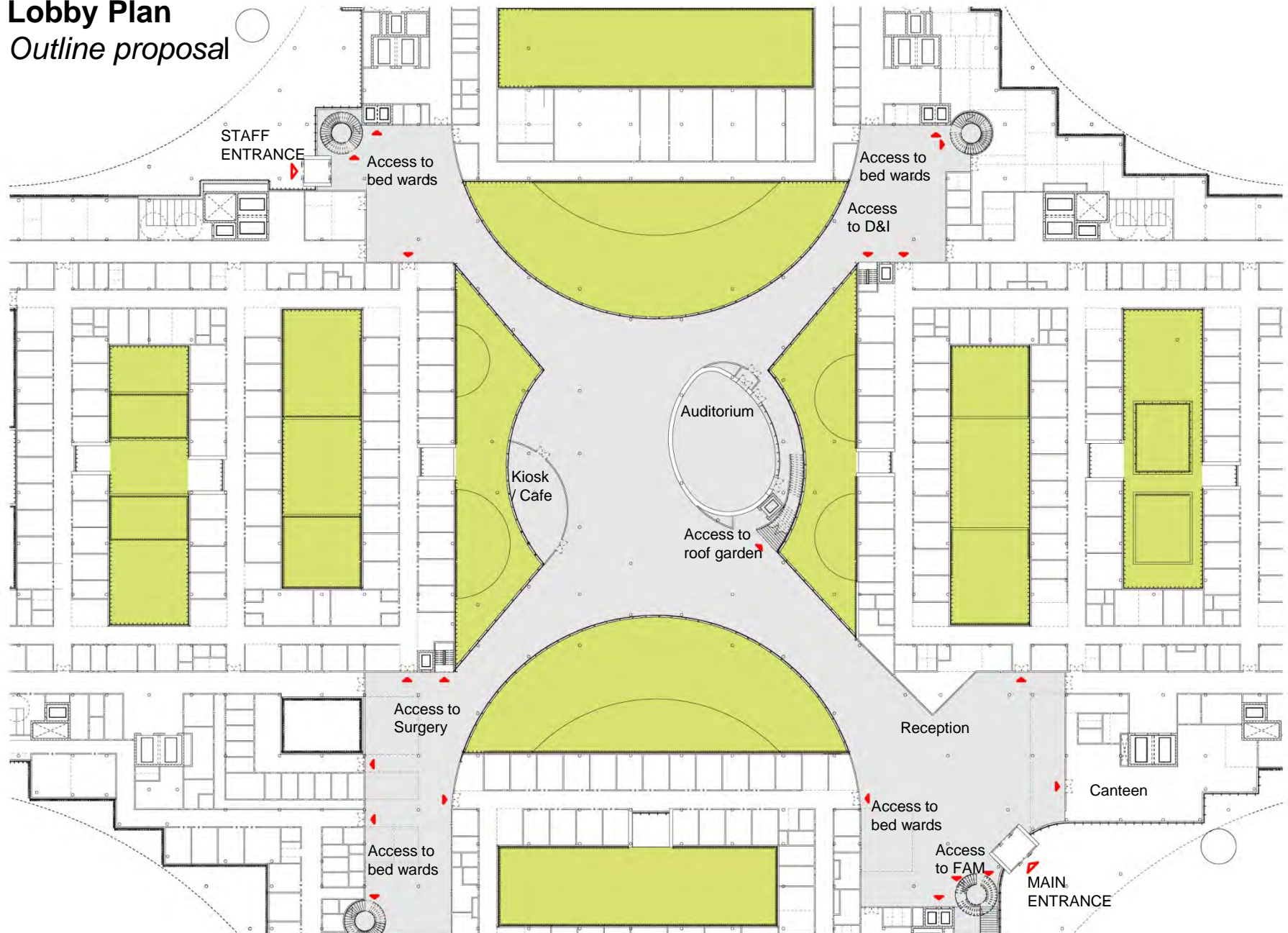


Consolidation Process: *Compact Center*

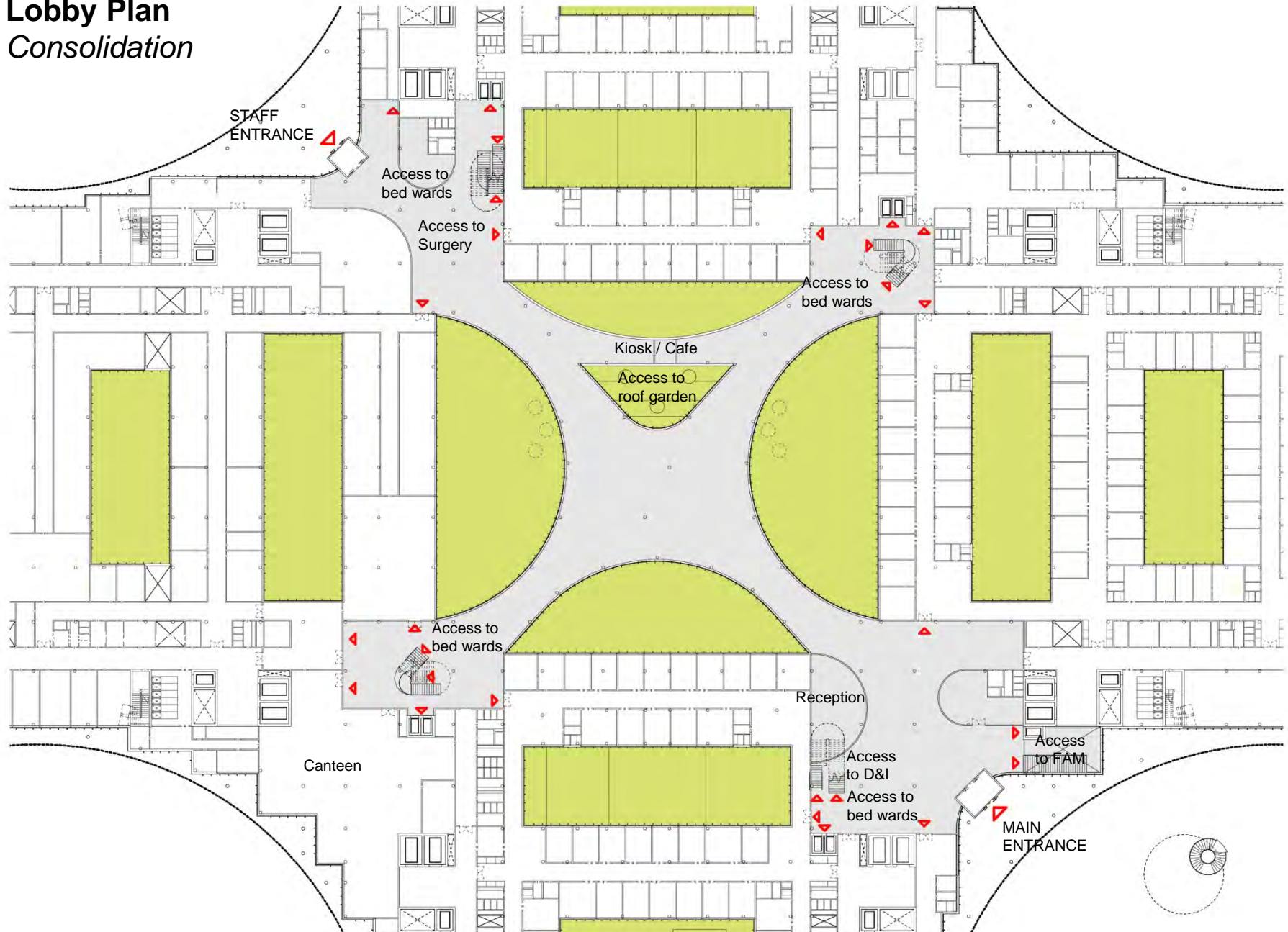


Lobby Plan

Outline proposal

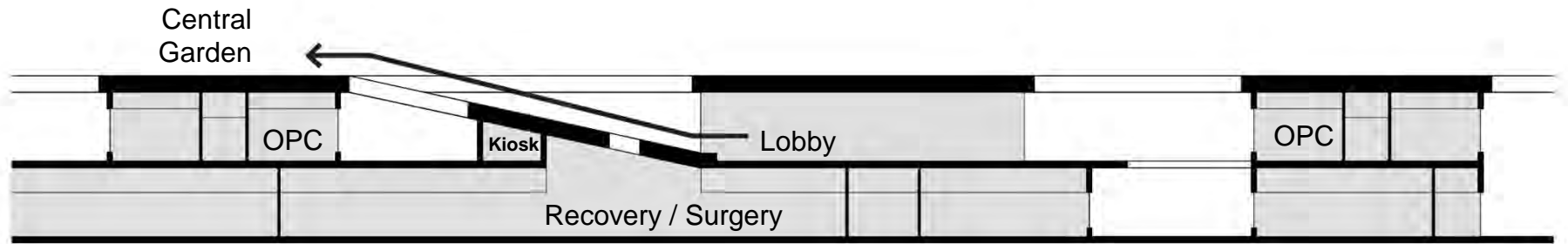


Lobby Plan Consolidation





Connection to Central Garden from Lobby



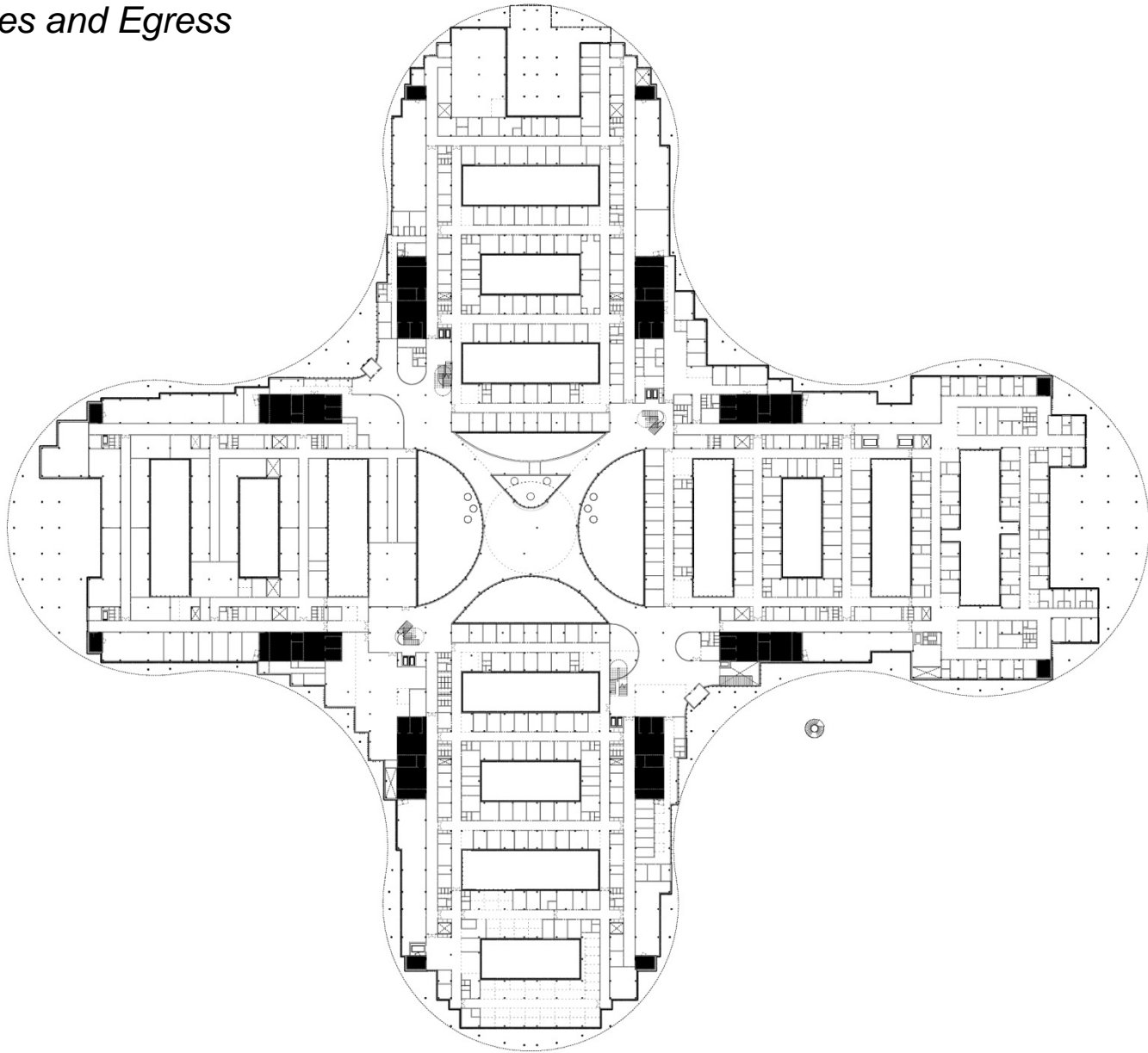
Connection to Central Garden from Lobby



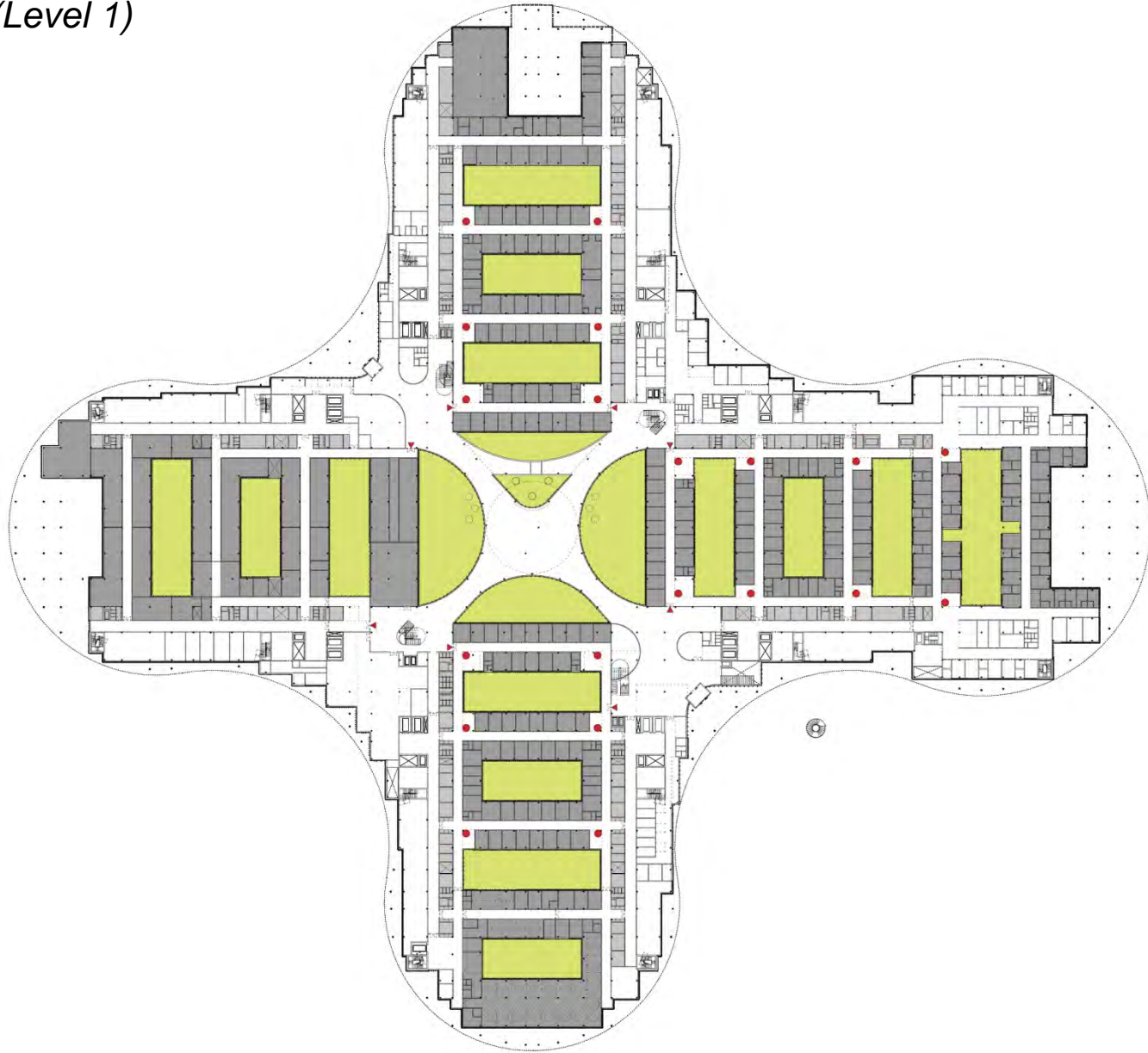
Lobby Panorama



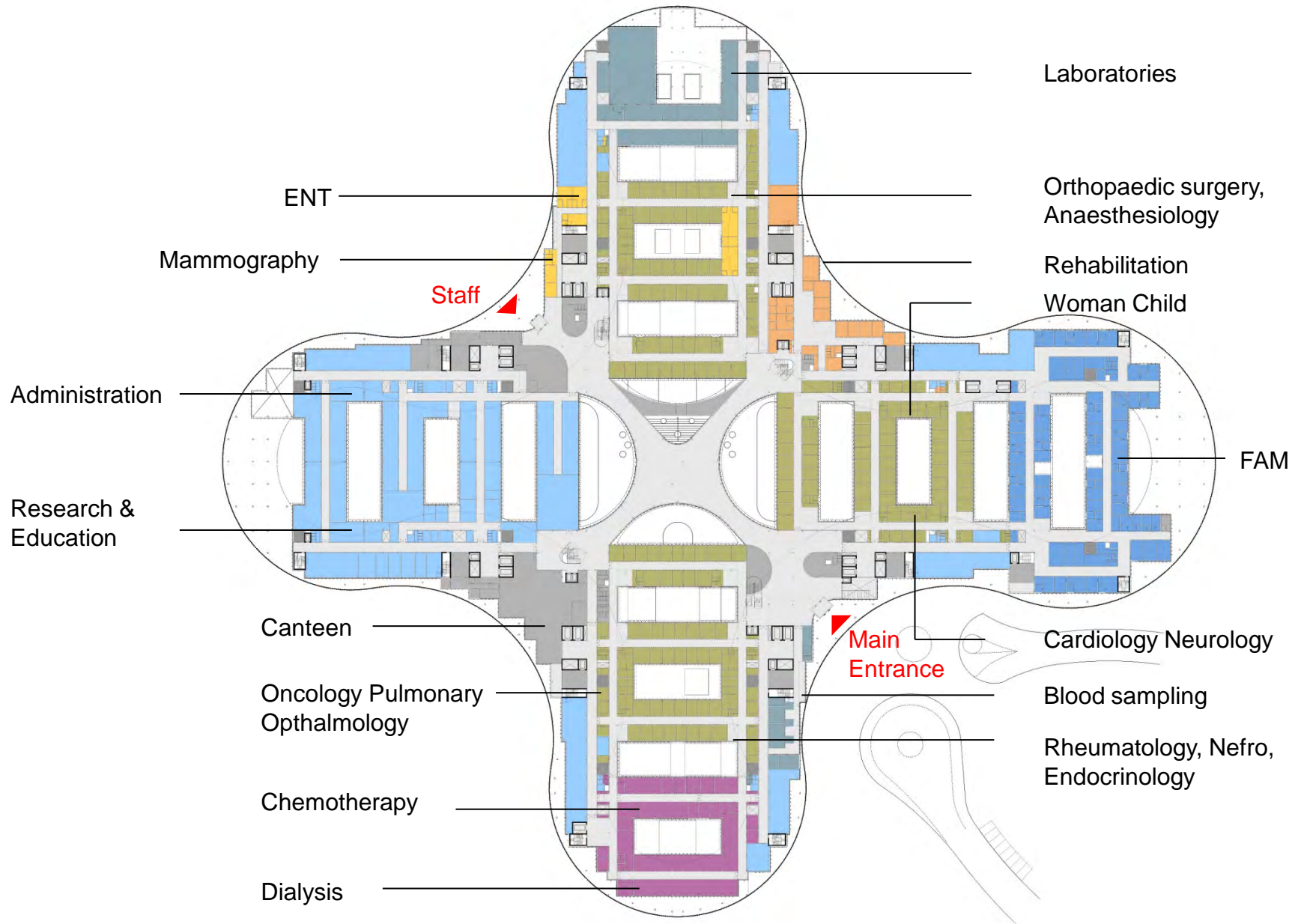
Symmetry & Standardization:
Structure, Cores and Egress



Symmetry & Standardization: *Departments (Level 1)*

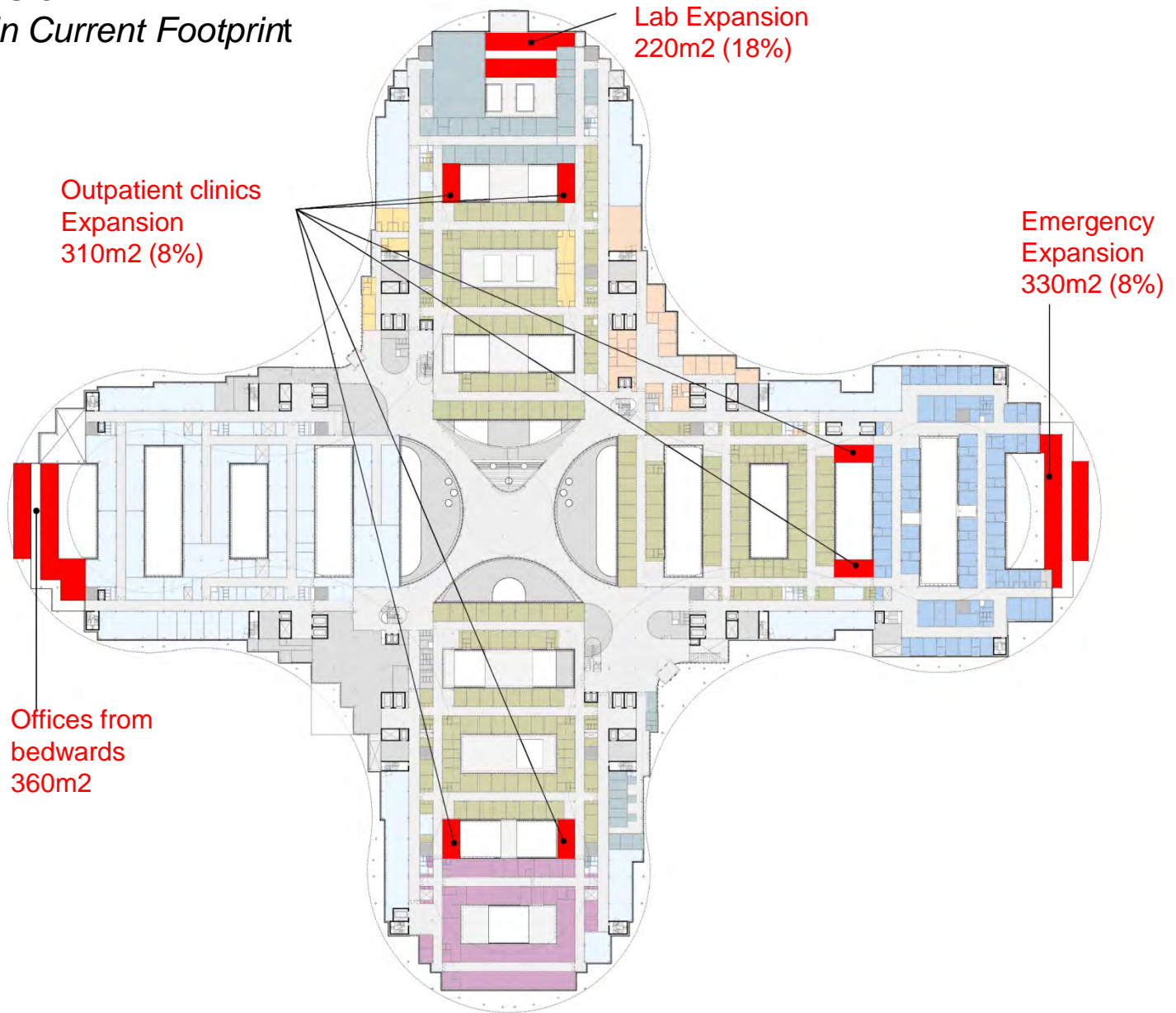


Level 1 Functions



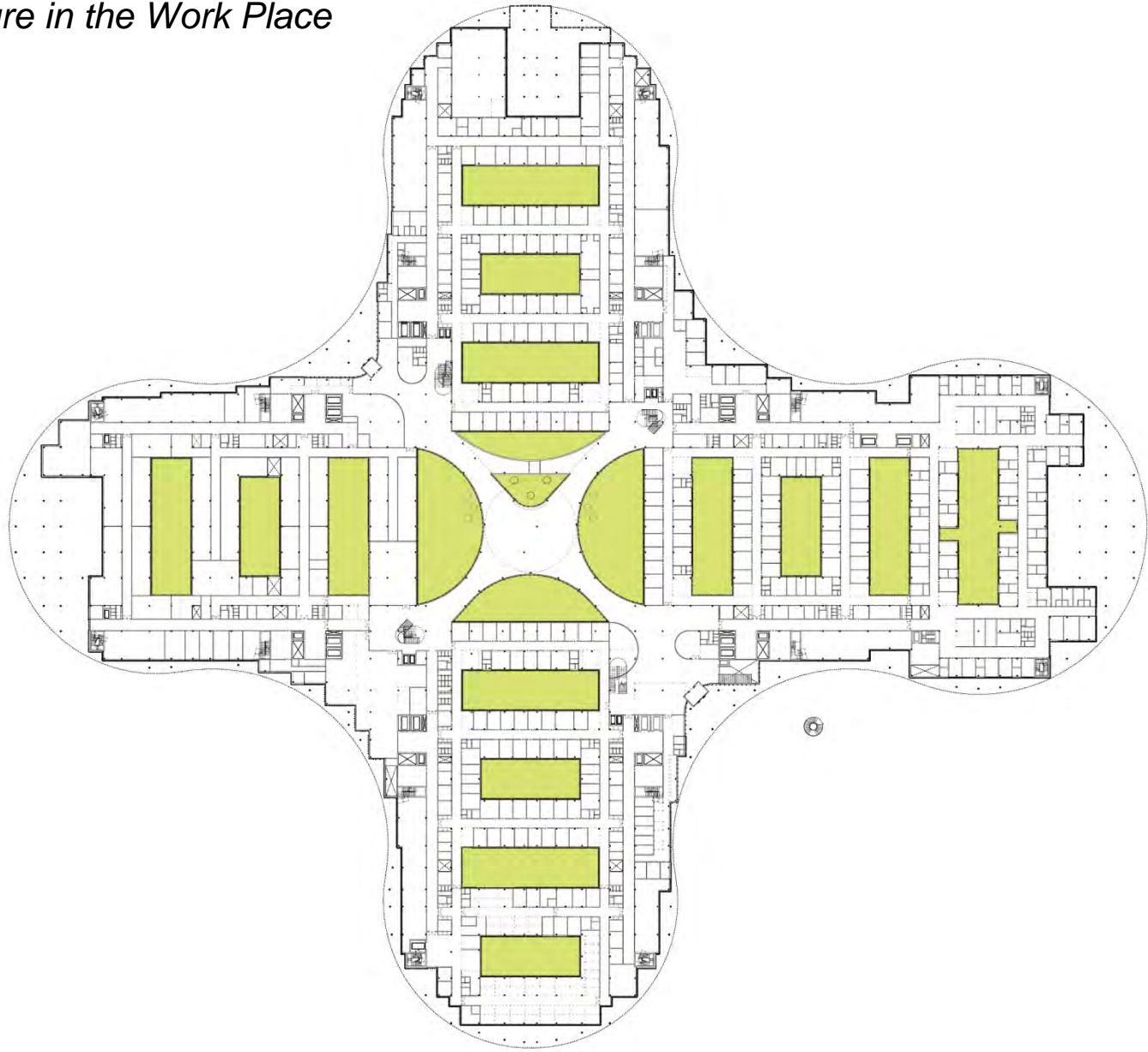
Level 1 Expansion

Add Area within Current Footprint

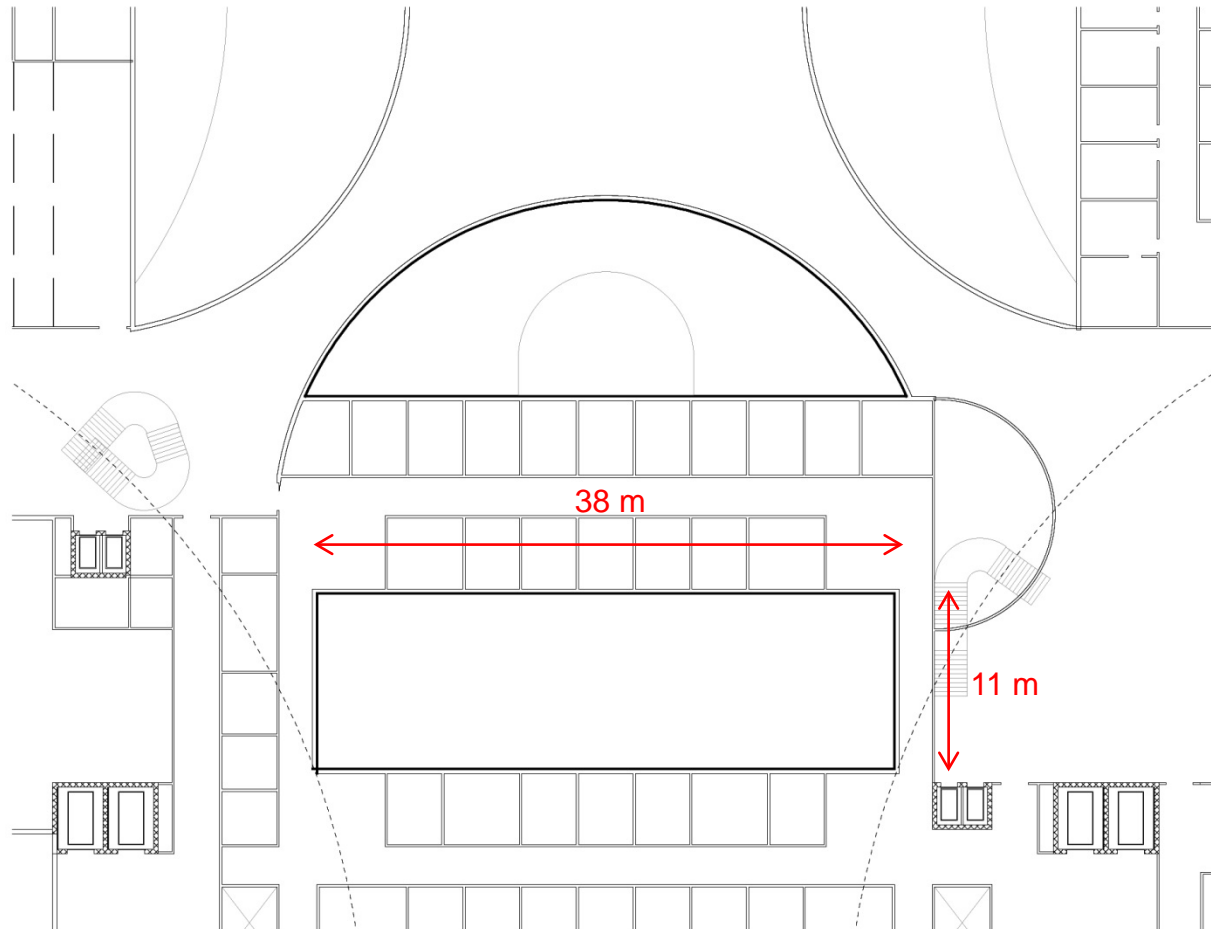


Level 1 - Courtyards

Light and Nature in the Work Place



Courtyard Scale



Typical Courtyard



Reference: Courtyard at Rehab, Basel





Reference: Circulation between Courtyards, Rehab, Basel

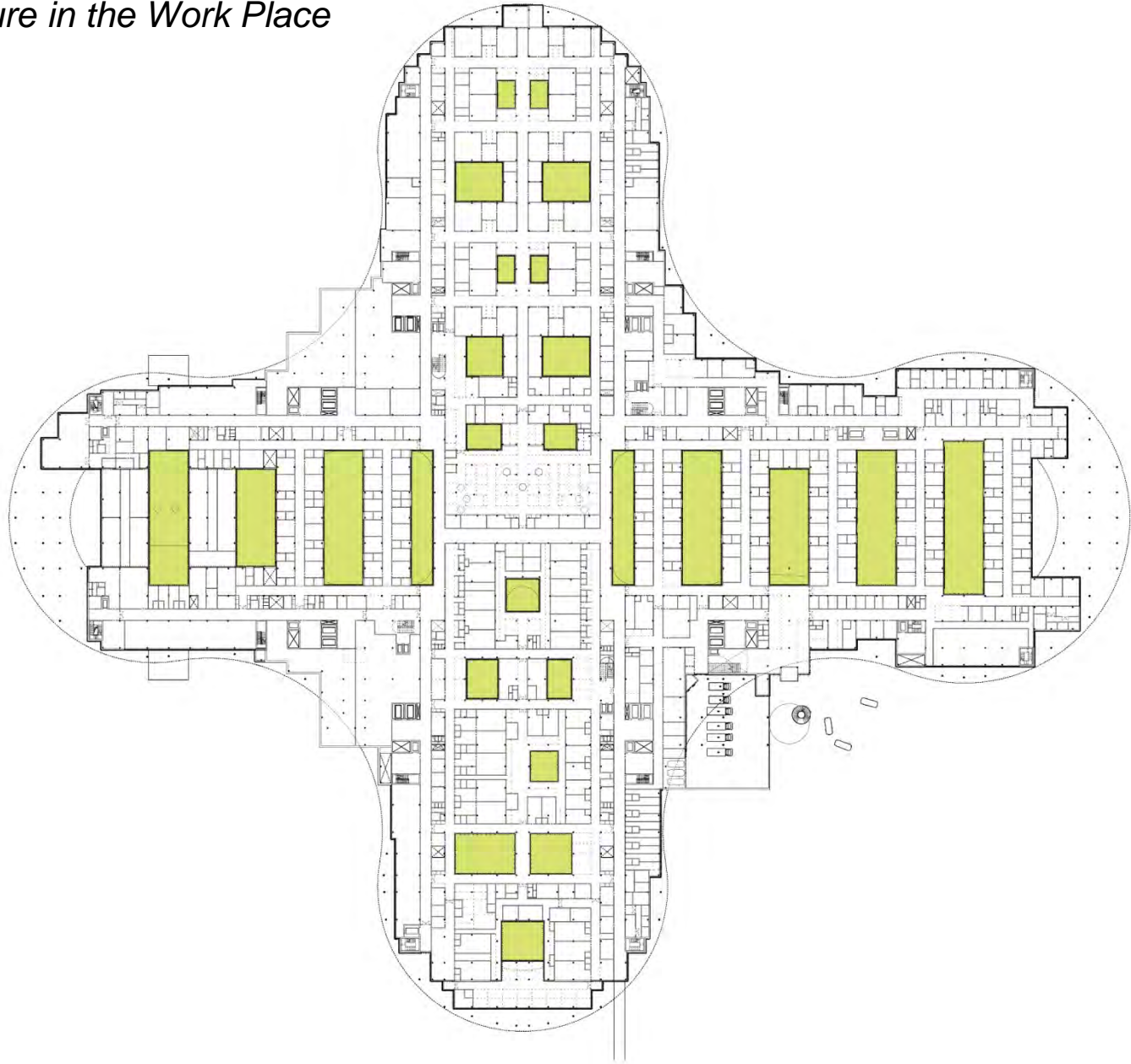




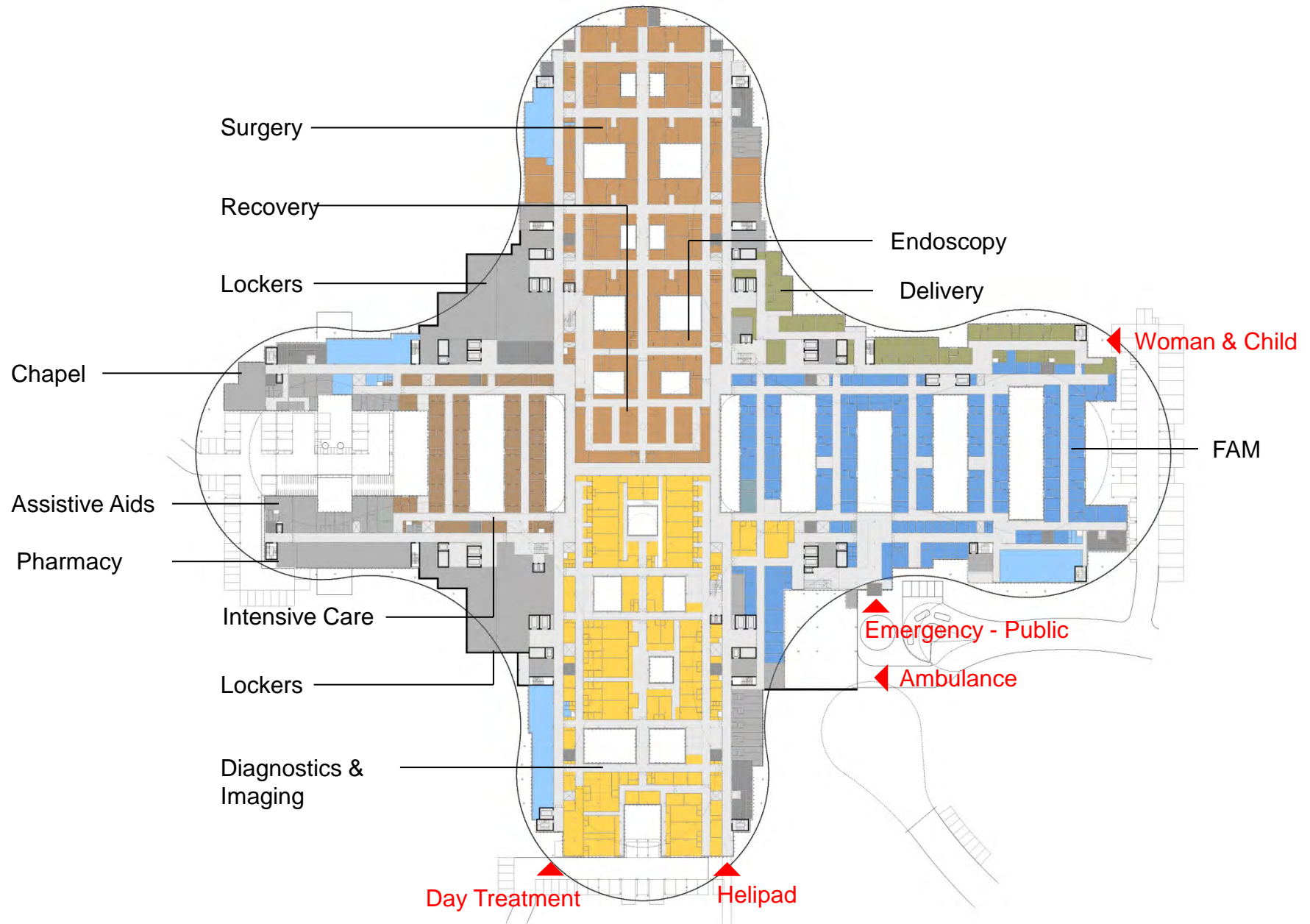
Interior Space for doctors and patients in Rehab, Basel

Level 0 – Courtyards

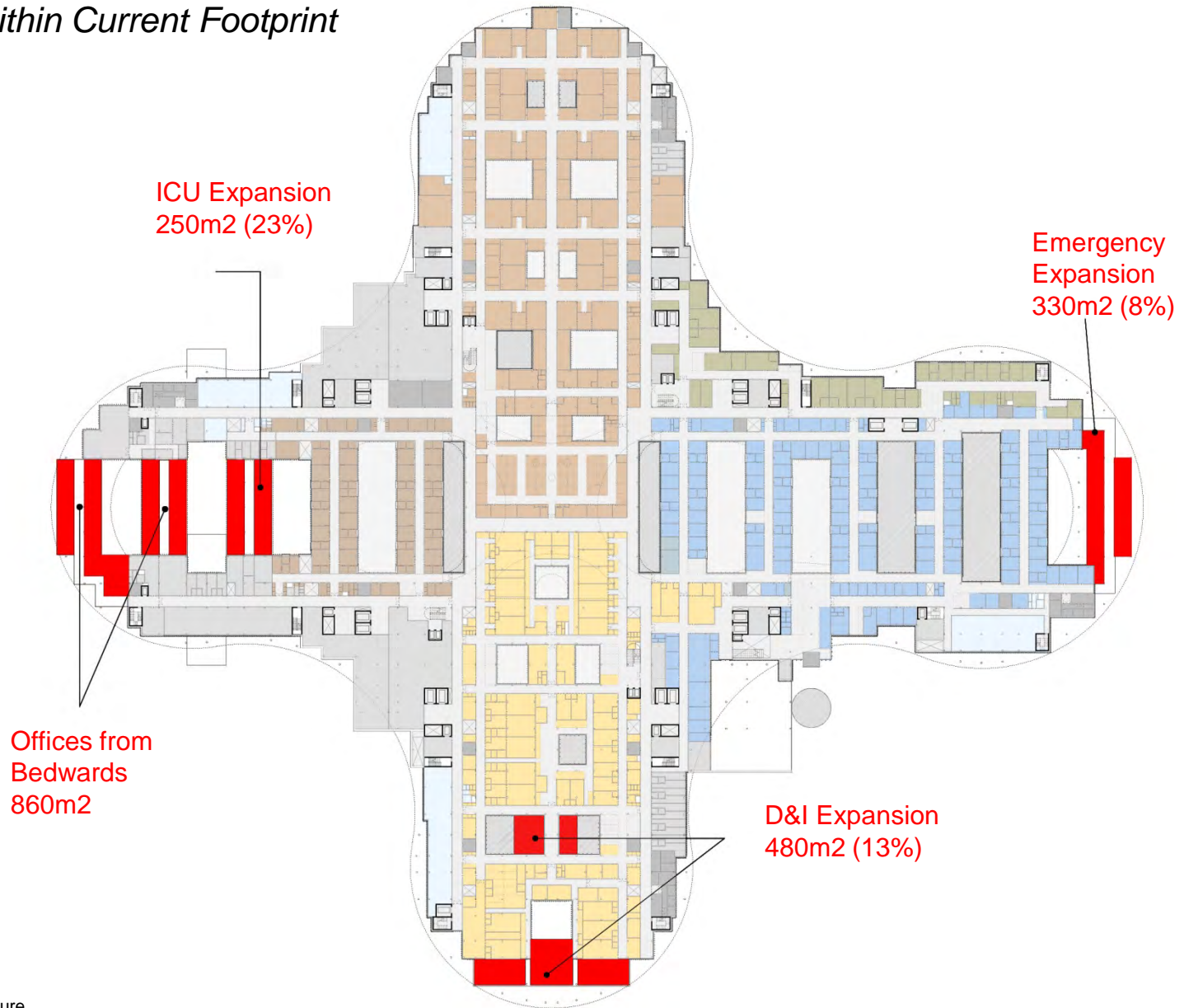
Light and Nature in the Work Place



Level 0 - Functions



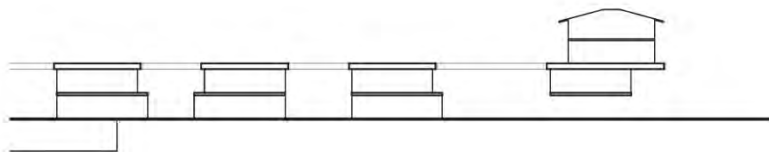
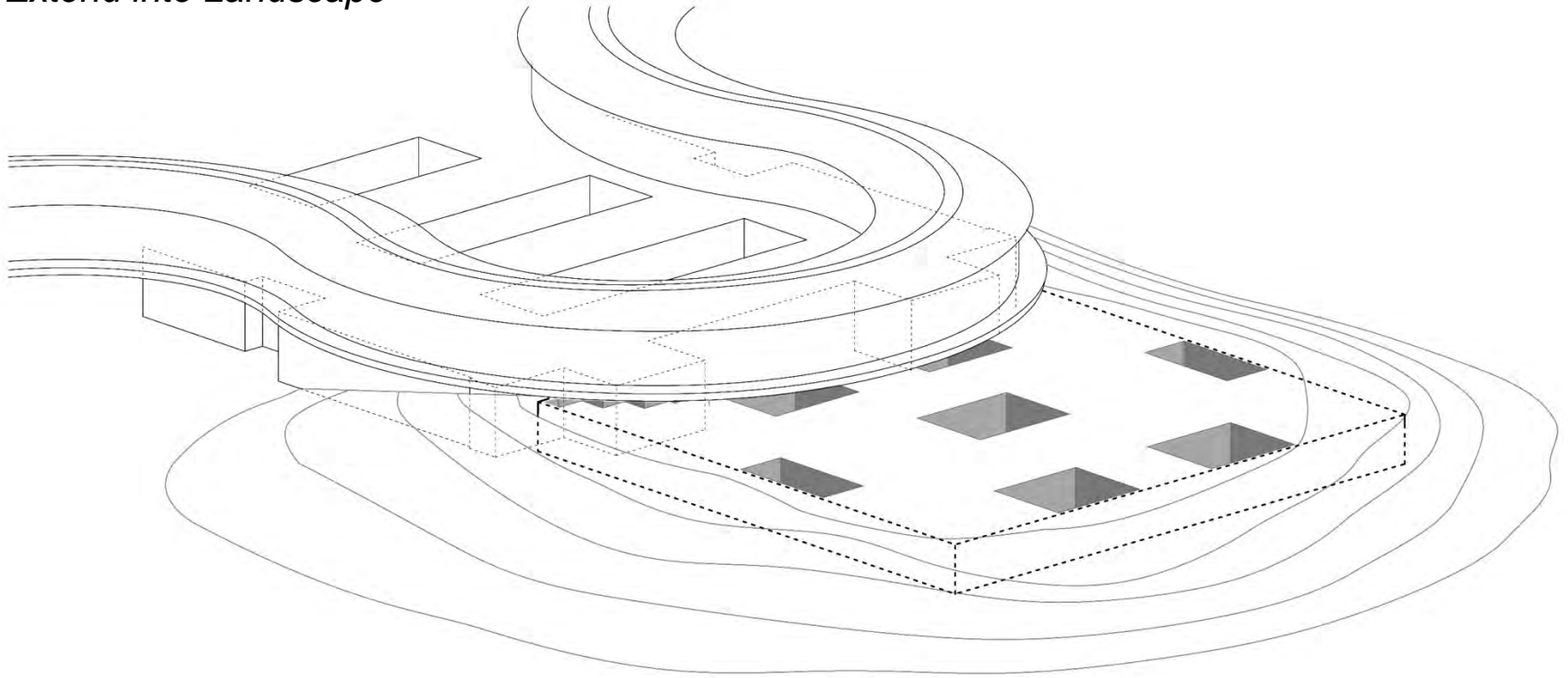
Level 0 Expansion: *Add Area within Current Footprint*



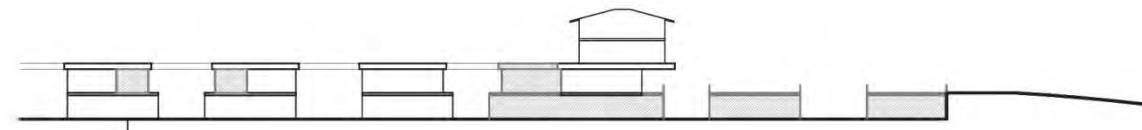
Expansion legend

- Inside current structure
- New build extension

Level 0 Expansion: *Extend into Landscape*



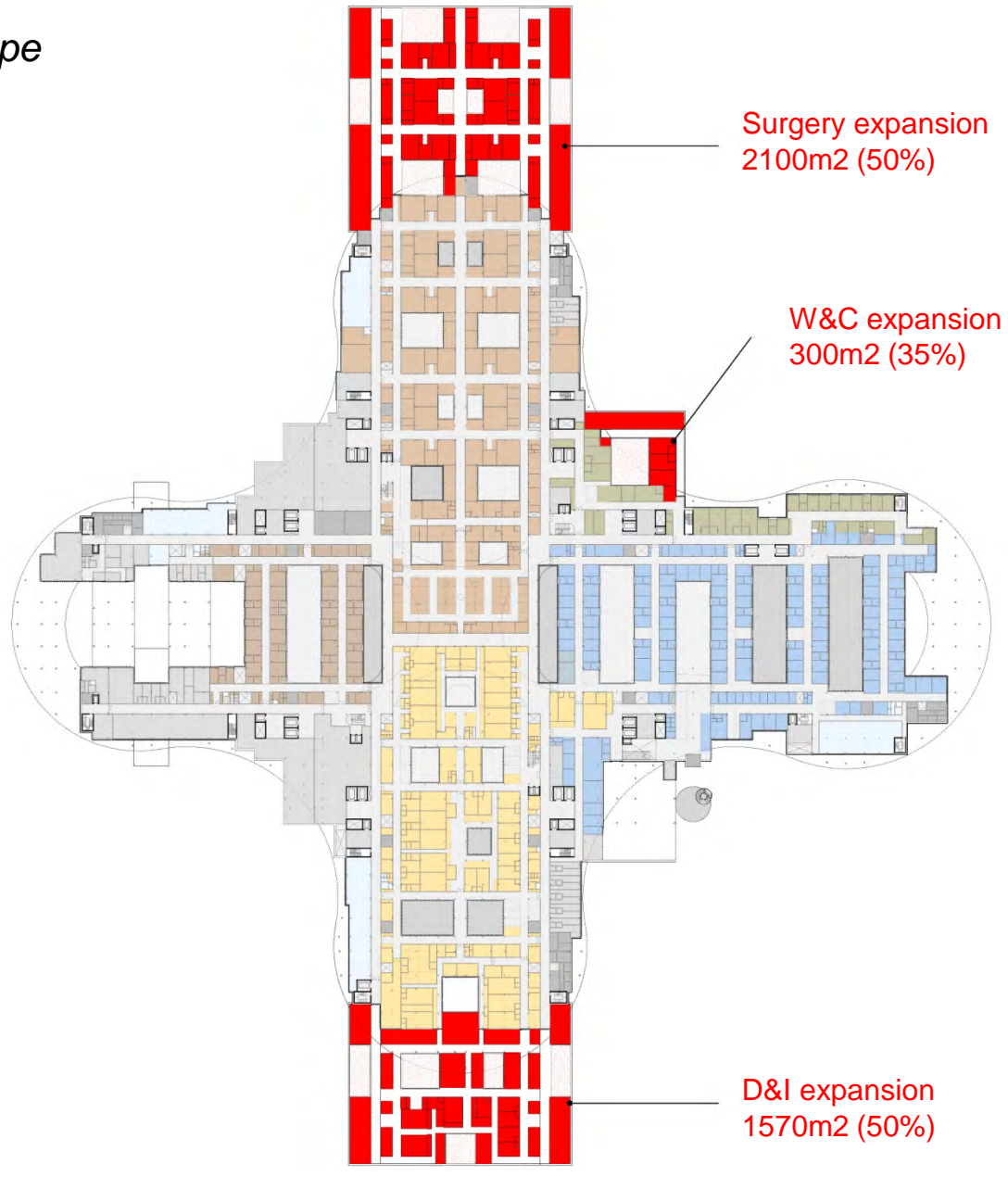
Current



Expansion



Level 0 Expansion: *Extend into Landscape*



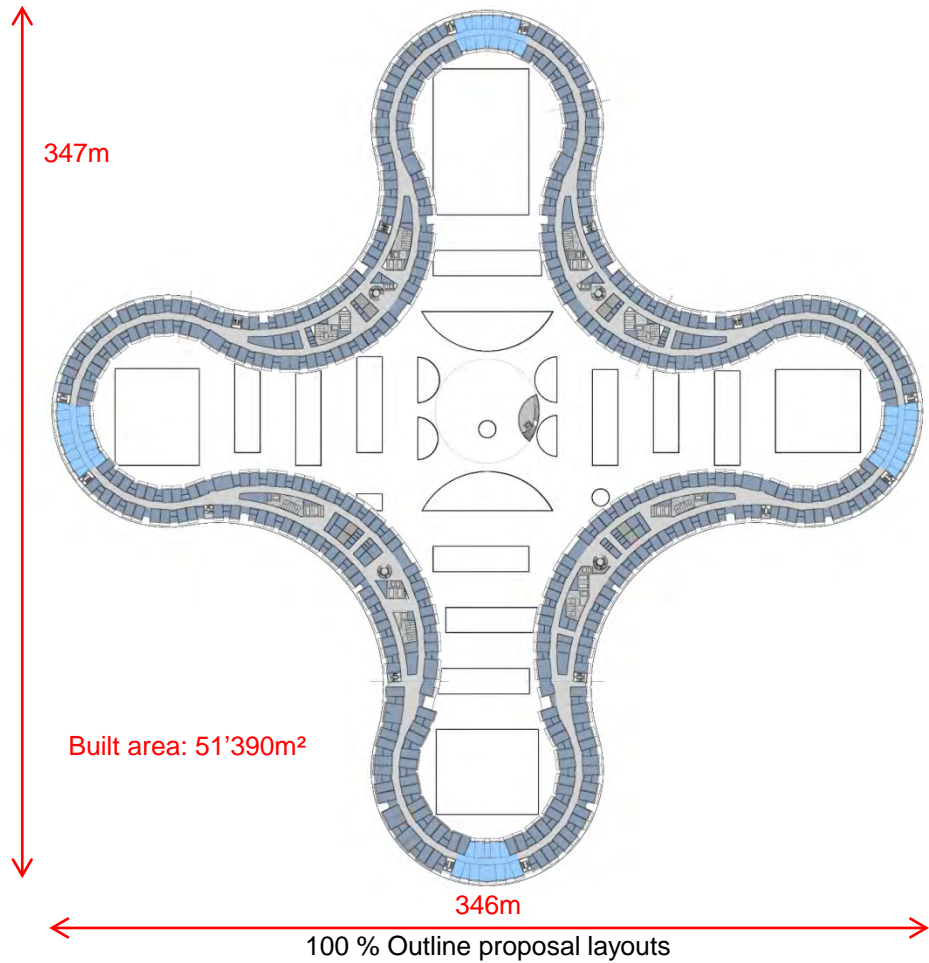
Inside current structure
New build extension



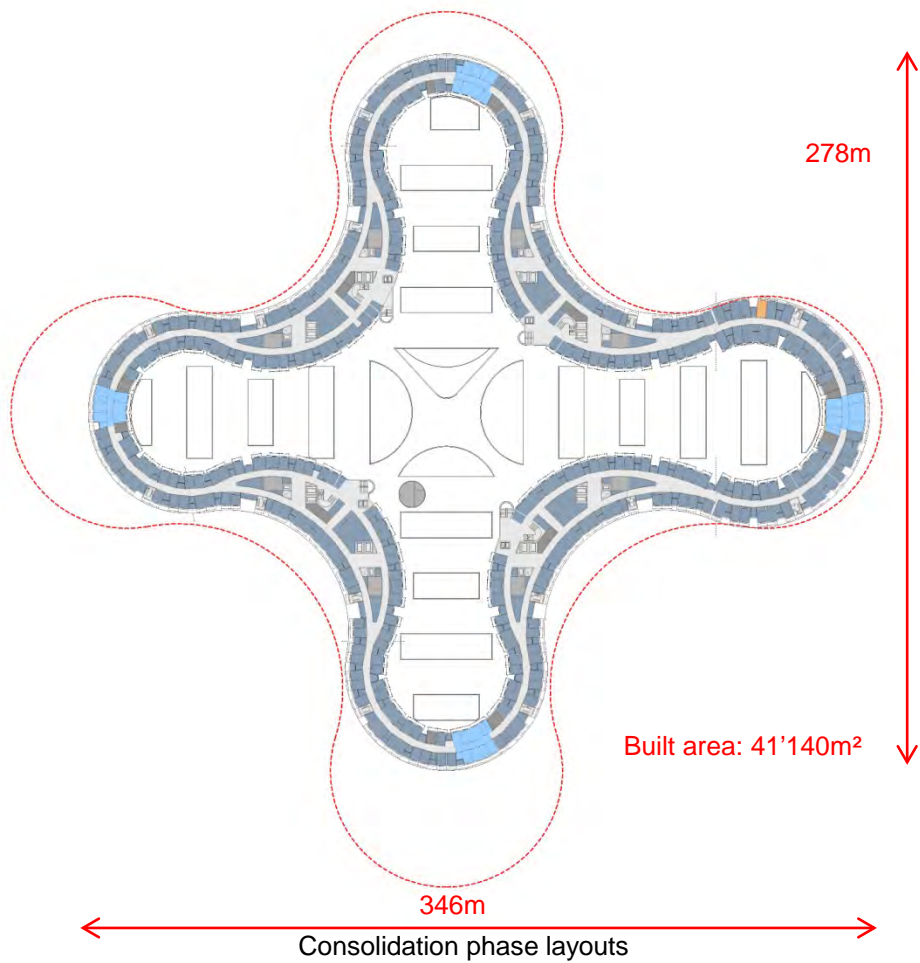


Bed-ward Comparison

Outline Proposal / Consolidation

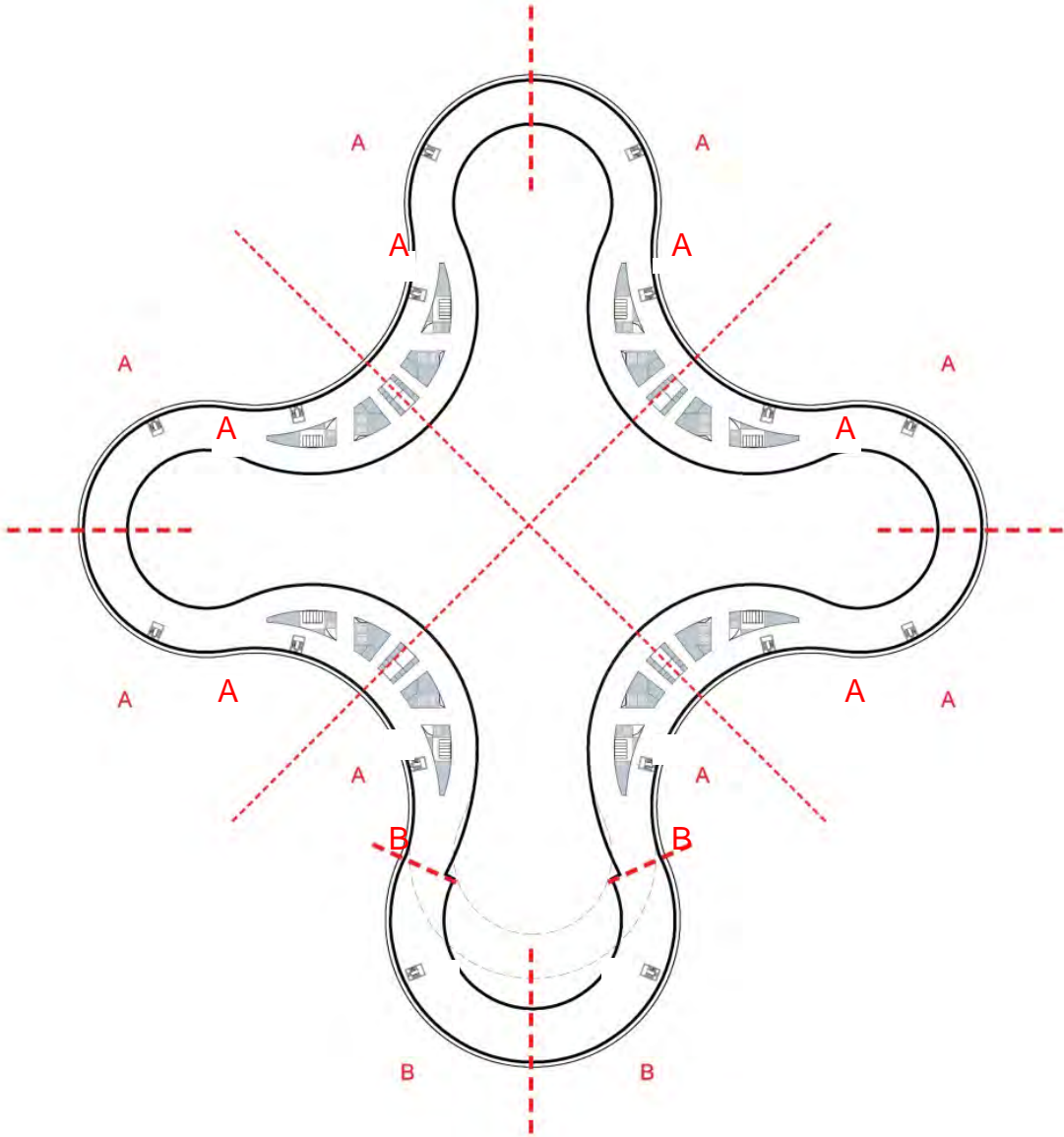


662 rooms
(90 FAM + 24 ICU + 548 Bed wards)

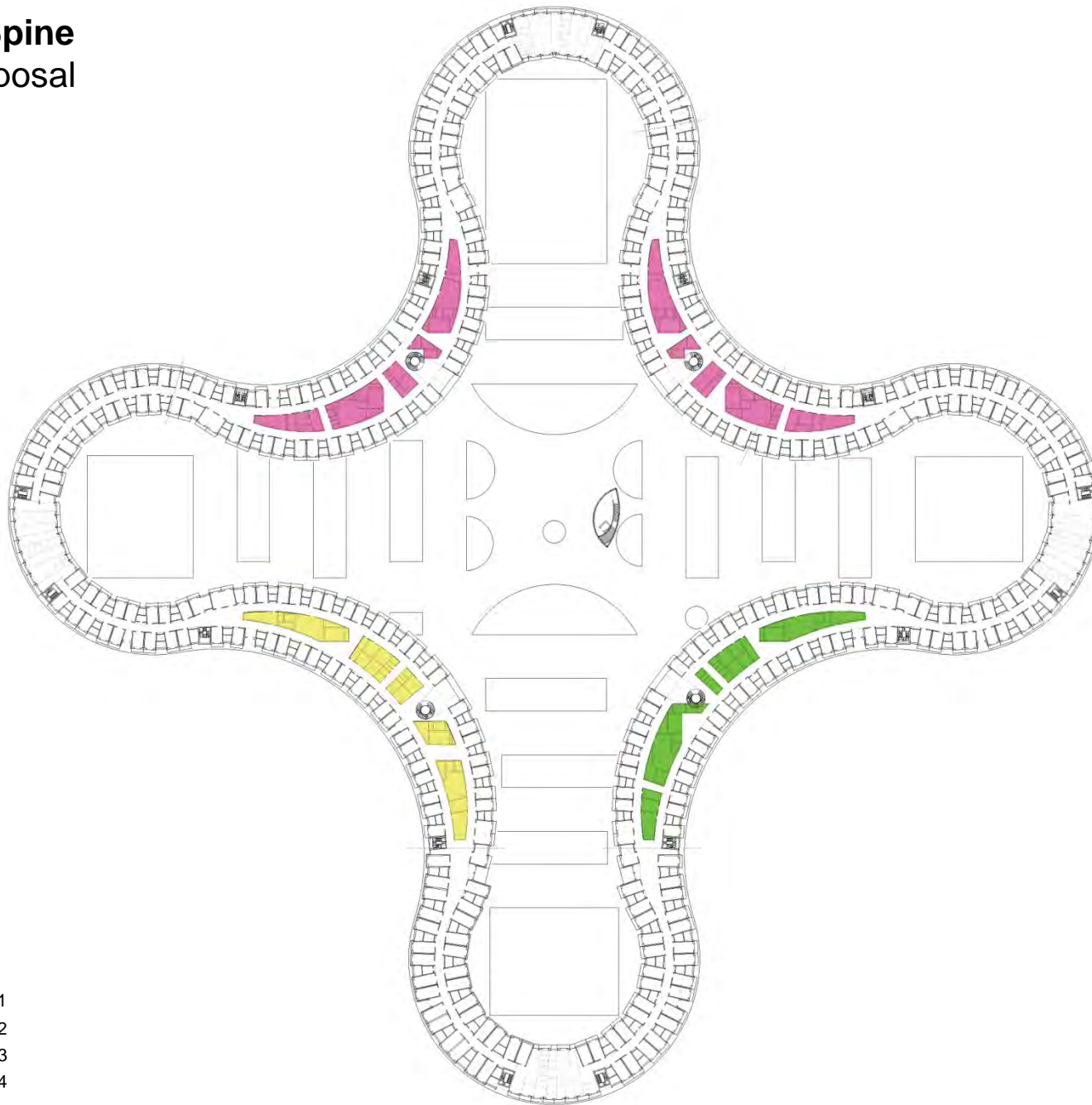


570 rooms
(90 FAM + 24 ICU + 456 Bed wards)

Bed-Ward Symmetry



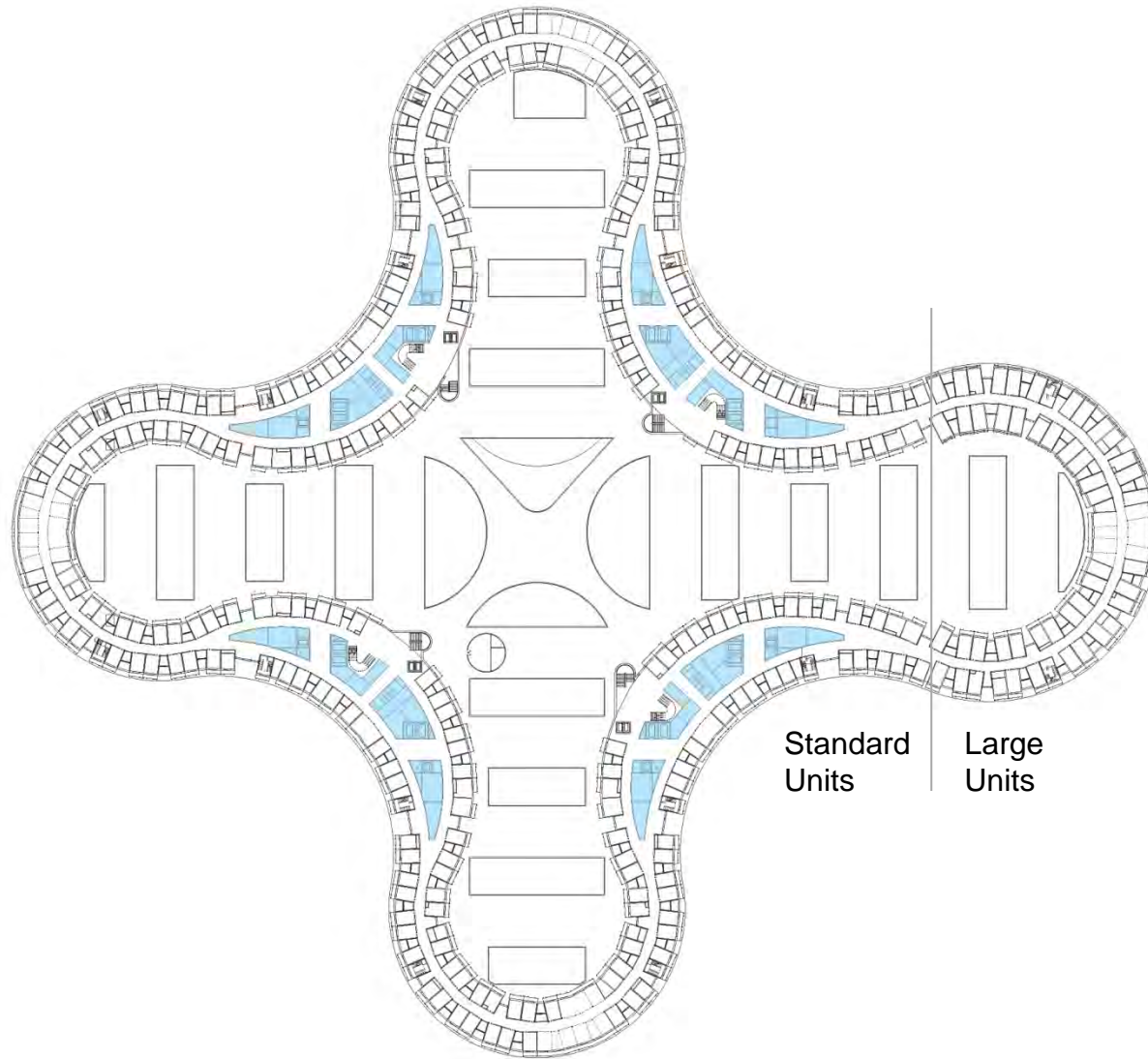
BedWard Spine Outline Proposal



- Central spine type 1
- Central spine type 2
- Central spine type 3
- Central spine type 4

Bed Ward Spine Standardization

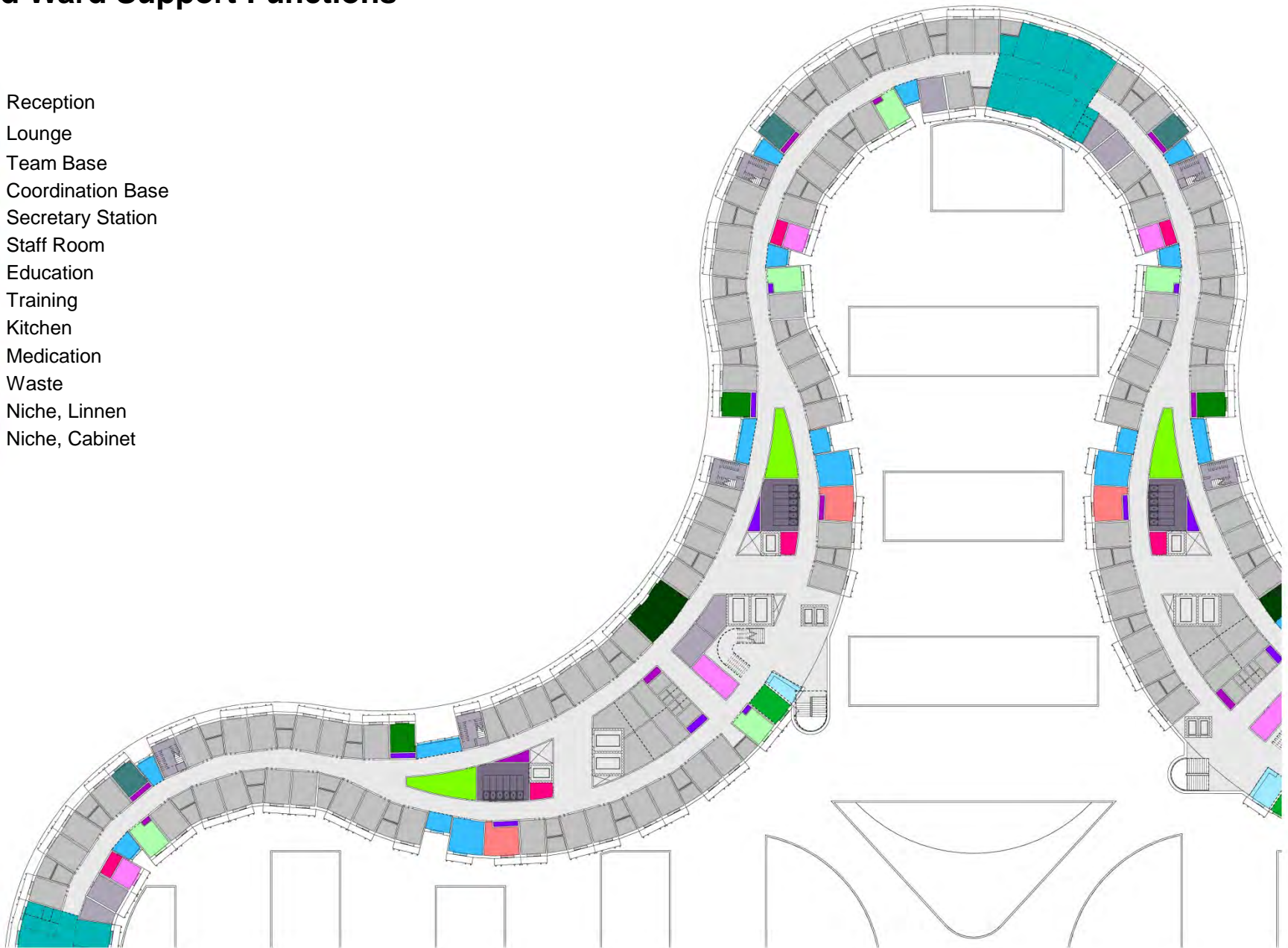
Consolidation



- Central spine type 1
- Central spine type 2
- Central spine type 3
- Central spine type 4

Bed Ward Support Functions

- Reception
- Lounge
- Team Base
- Coordination Base
- Secretary Station
- Staff Room
- Education
- Training
- Kitchen
- Medication
- Waste
- Niche, Linnen
- Niche, Cabinet

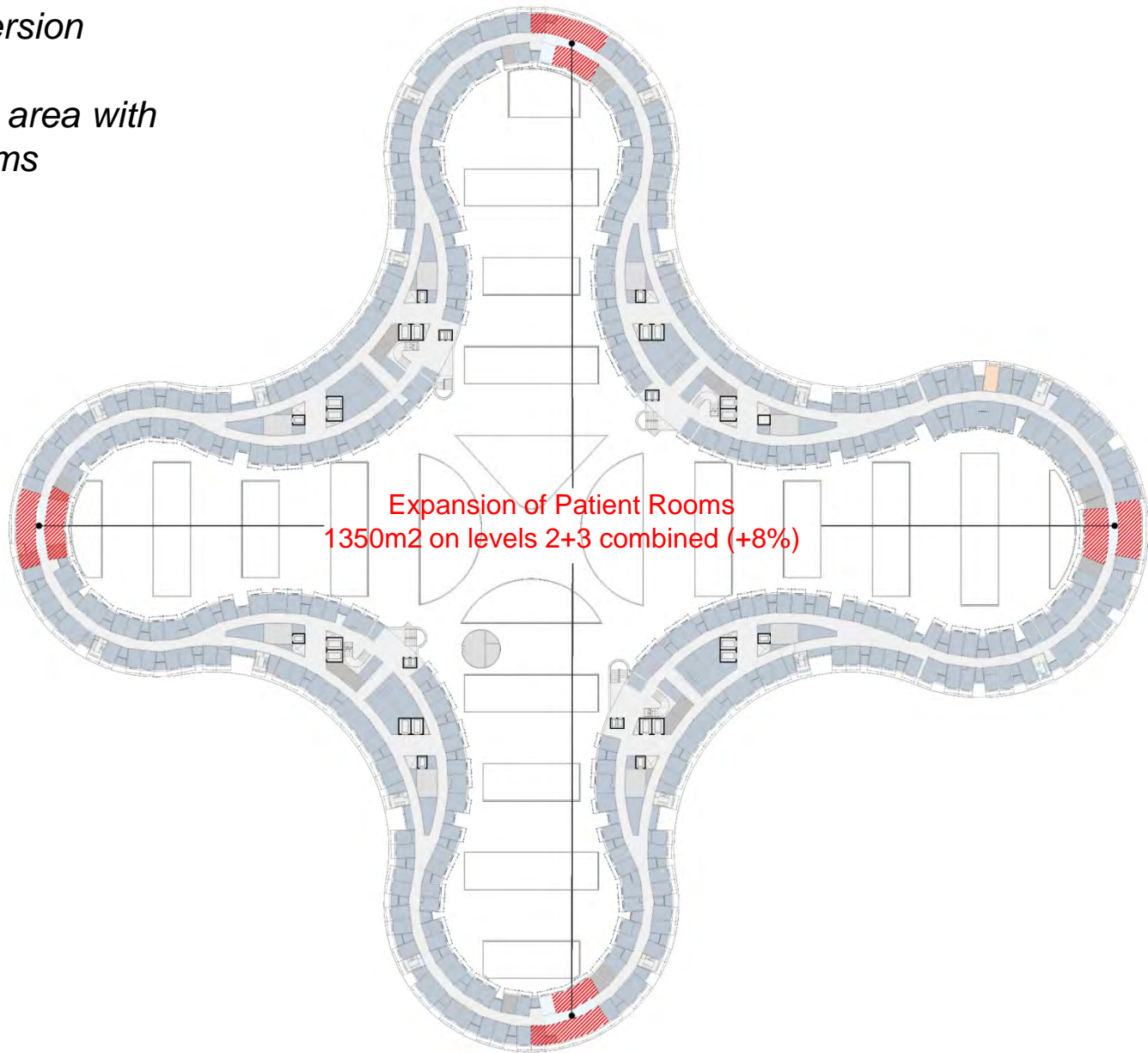






Bed Ward Expansion: *Internal Conversion*

*Replace office area with
38 patient rooms*

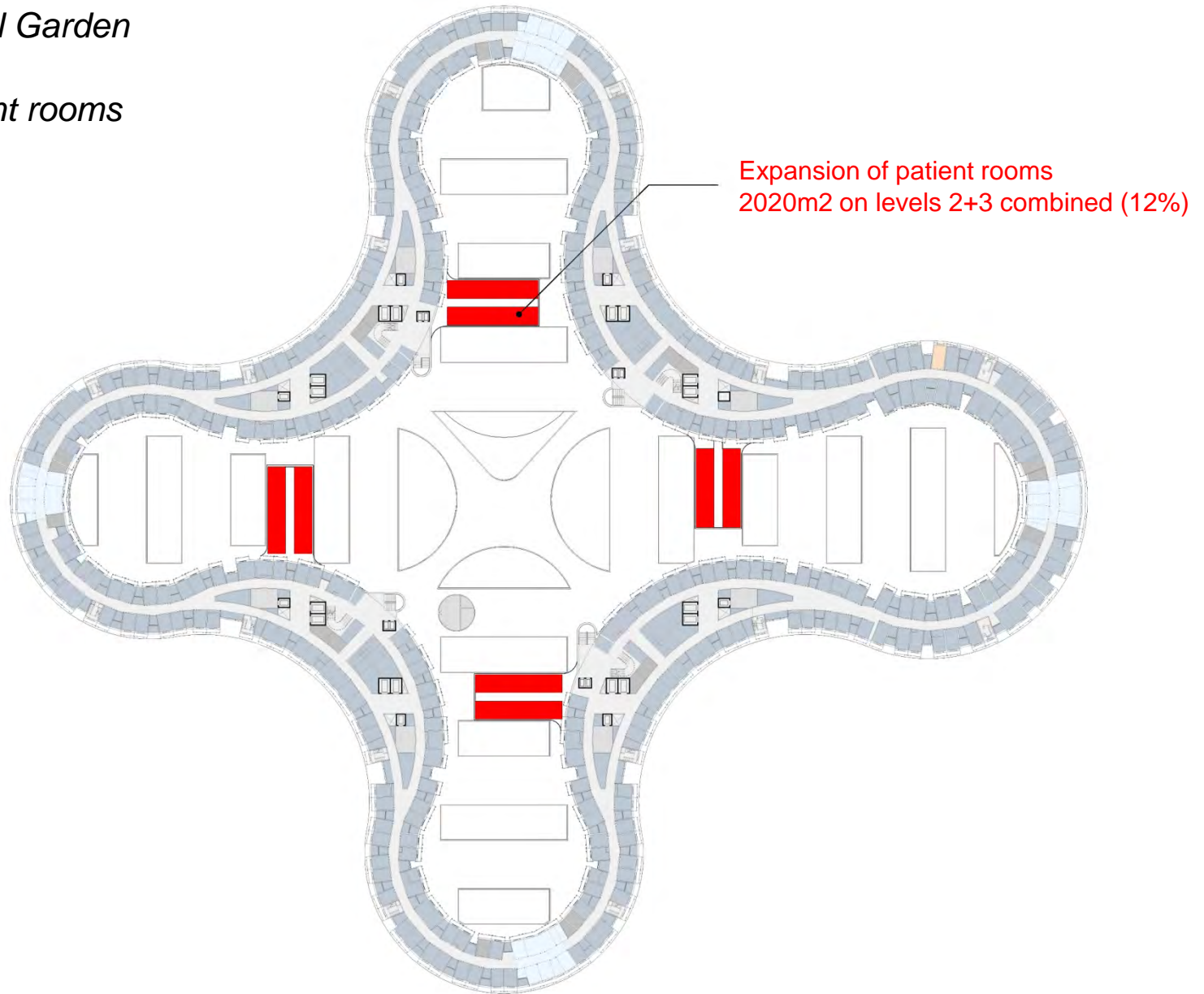


Expansion legend

- Inside current structure
- New build extension

Bed Ward Expansion *Inhabit Central Garden*

Max. 54 patient rooms



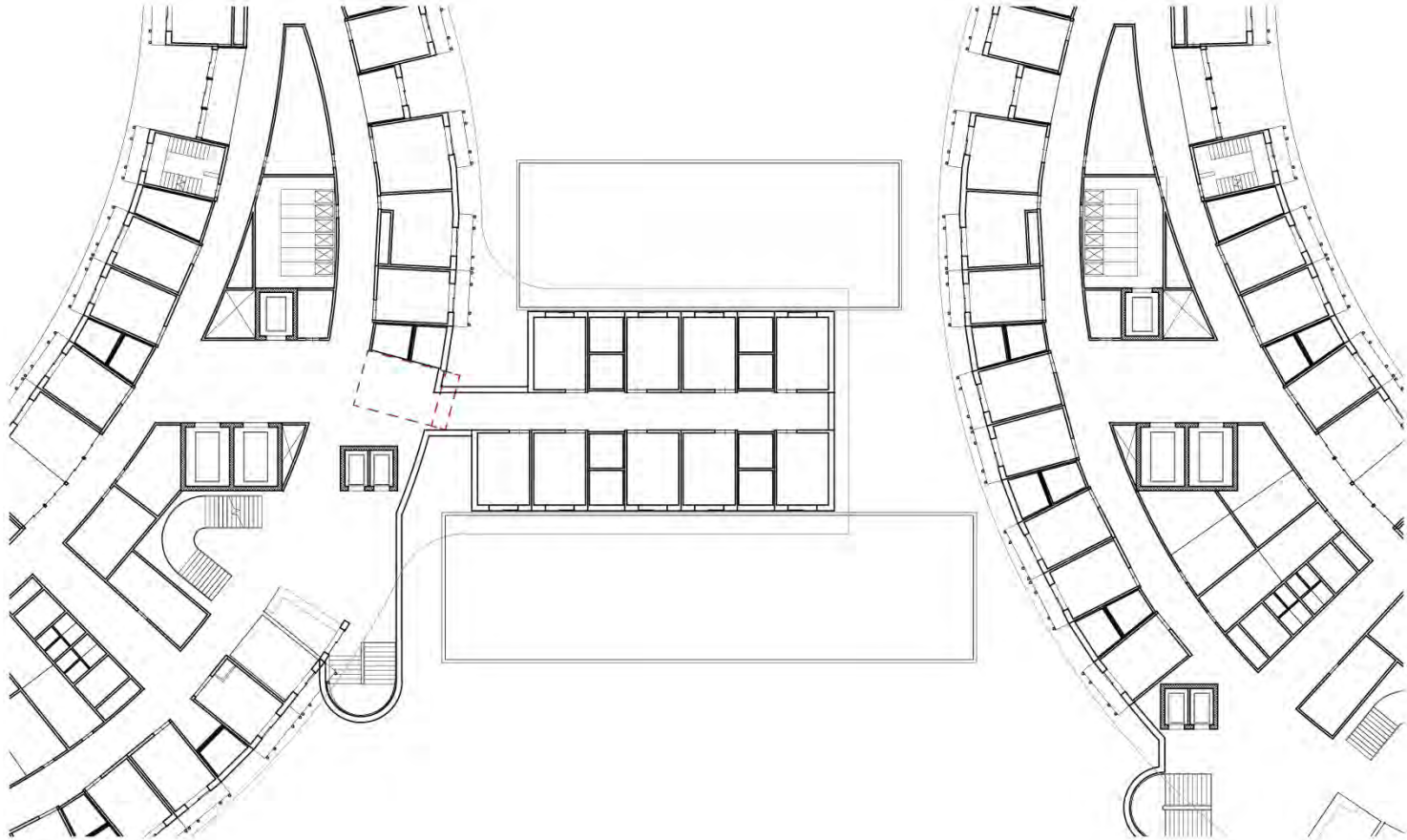
Expansion legend

- Inside current structure
- New build extension



Bedward Expansion

Plan detail of extension into Central Garden

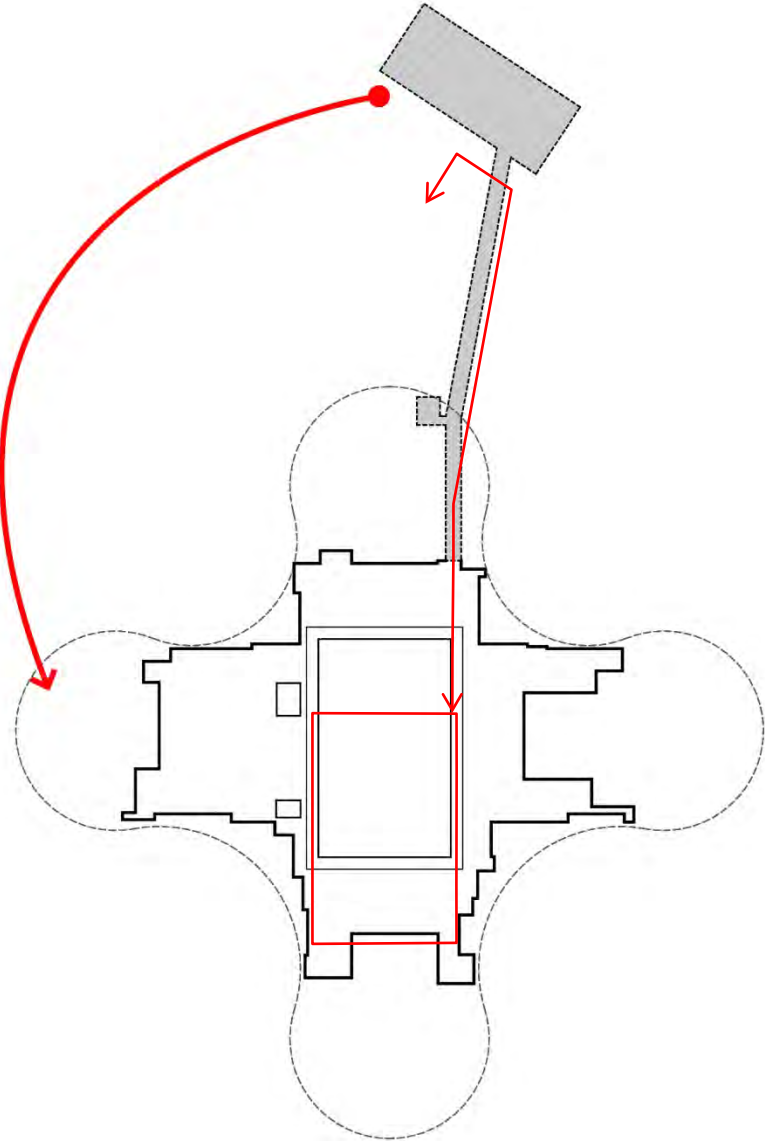


Bed Ward Expansion

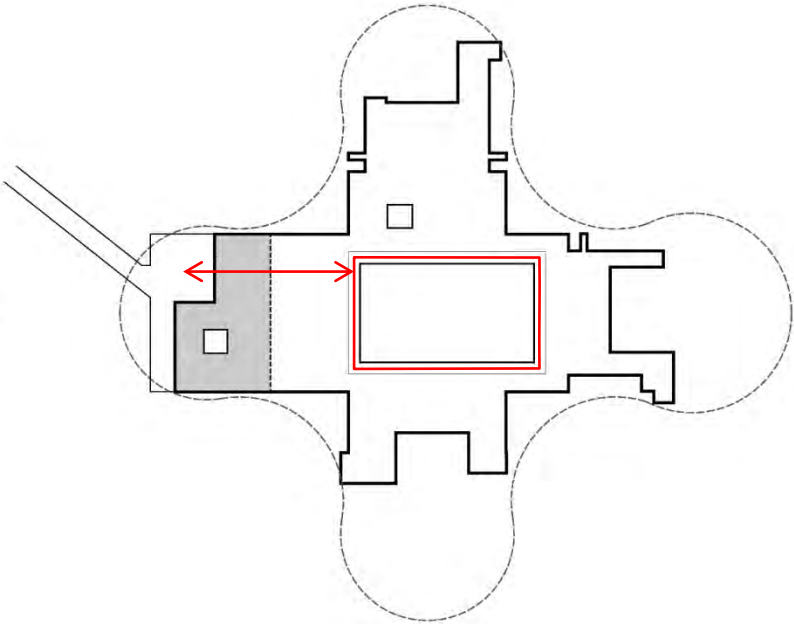
Summary

<i>FAM</i>	90
<i>ICU</i>	24
<i>Level 2/3 Beds:</i>	456
<i>Total</i>	570
 <i>Expansion within current structure:</i>	38
<i>Expansion in central garden:</i>	54
Total Expansion potential:	92 (20%)
 Total Including Expansion	662

Service Village Relocation



100 % Outline proposal layouts



Consolidation phase layouts

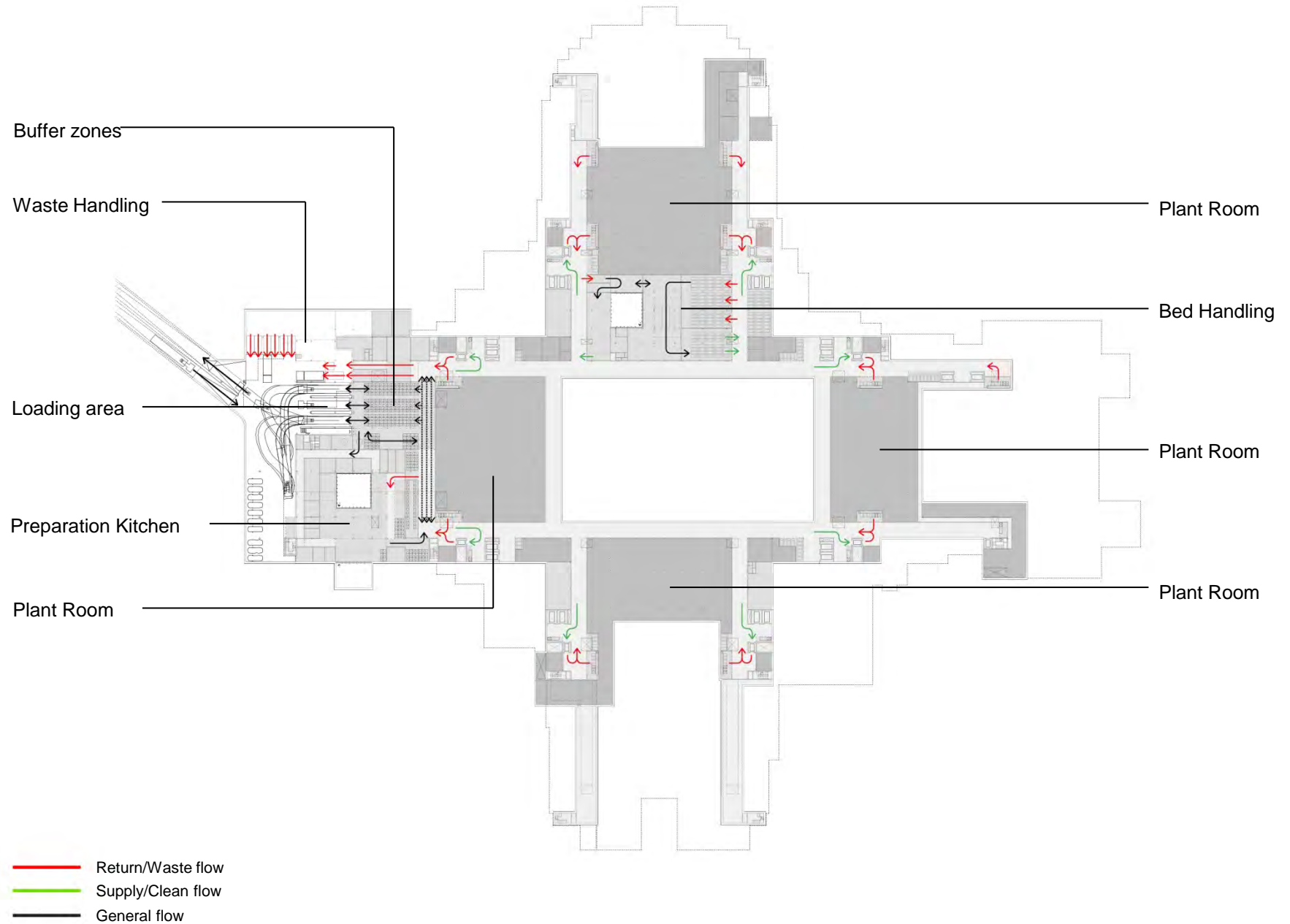
Service Village Relocation – Key Improvements

- *Logistics center access closer to main roads.*
- *Proximity to distribution ring improves logistics and overall function*
- *Distribution bottleneck at Tunnel removed*
- *Synergy between preparation kitchen for bedwards and canteen.*
- *Workshop in proximity to assistive aids and integrated in main building.*
- *Synergy of use – reduced duplication of staff rooms (uniform store, wardrobes and offices)*

Site Plan with Access Points for Logistics

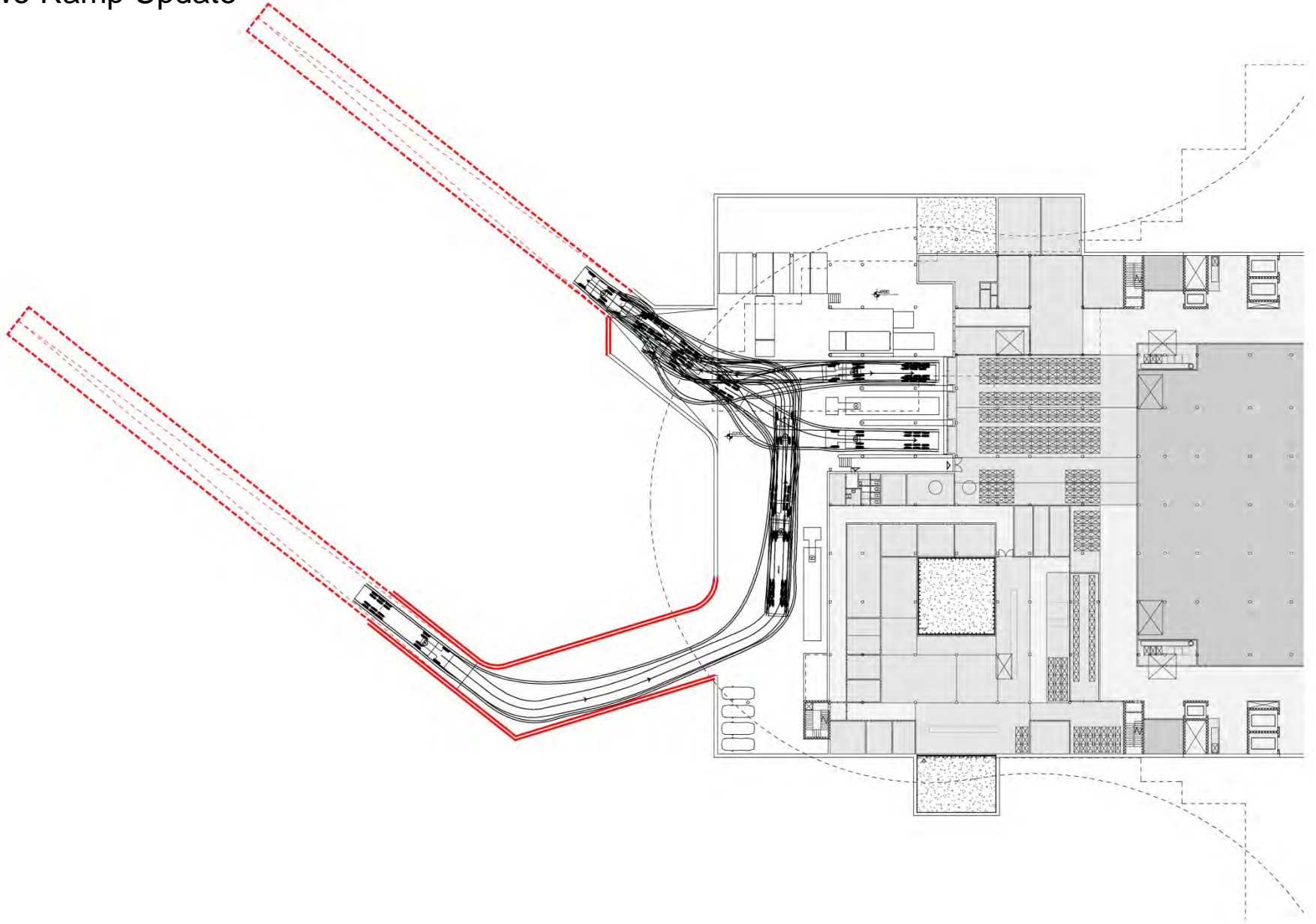


Basement Logistical Flow

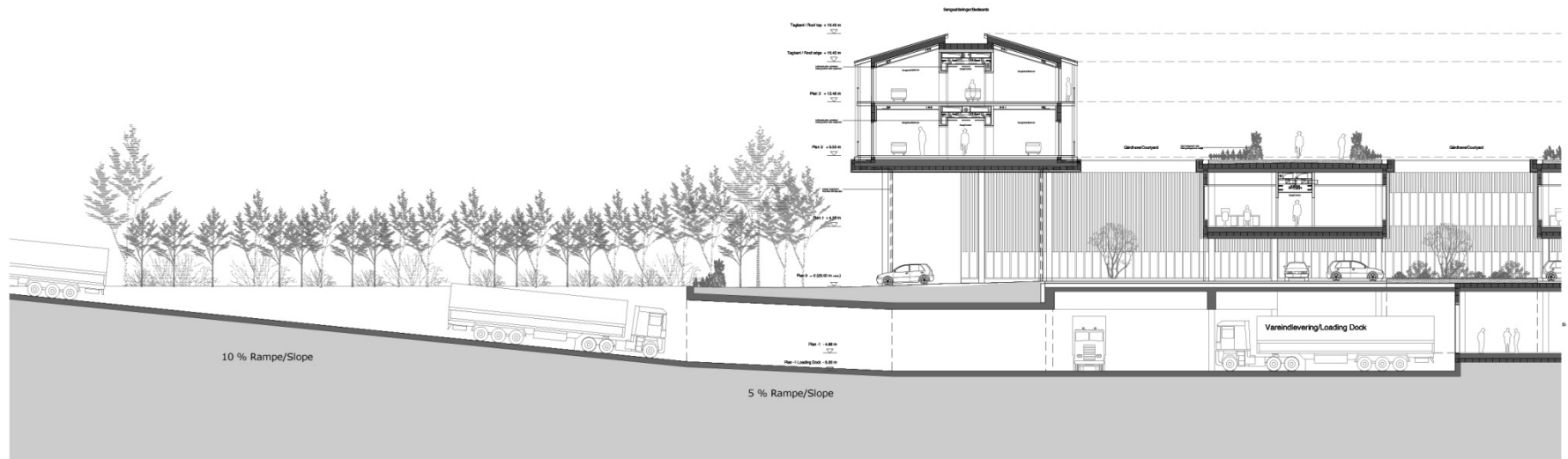


Loading Dock Access

Two Ramp Update

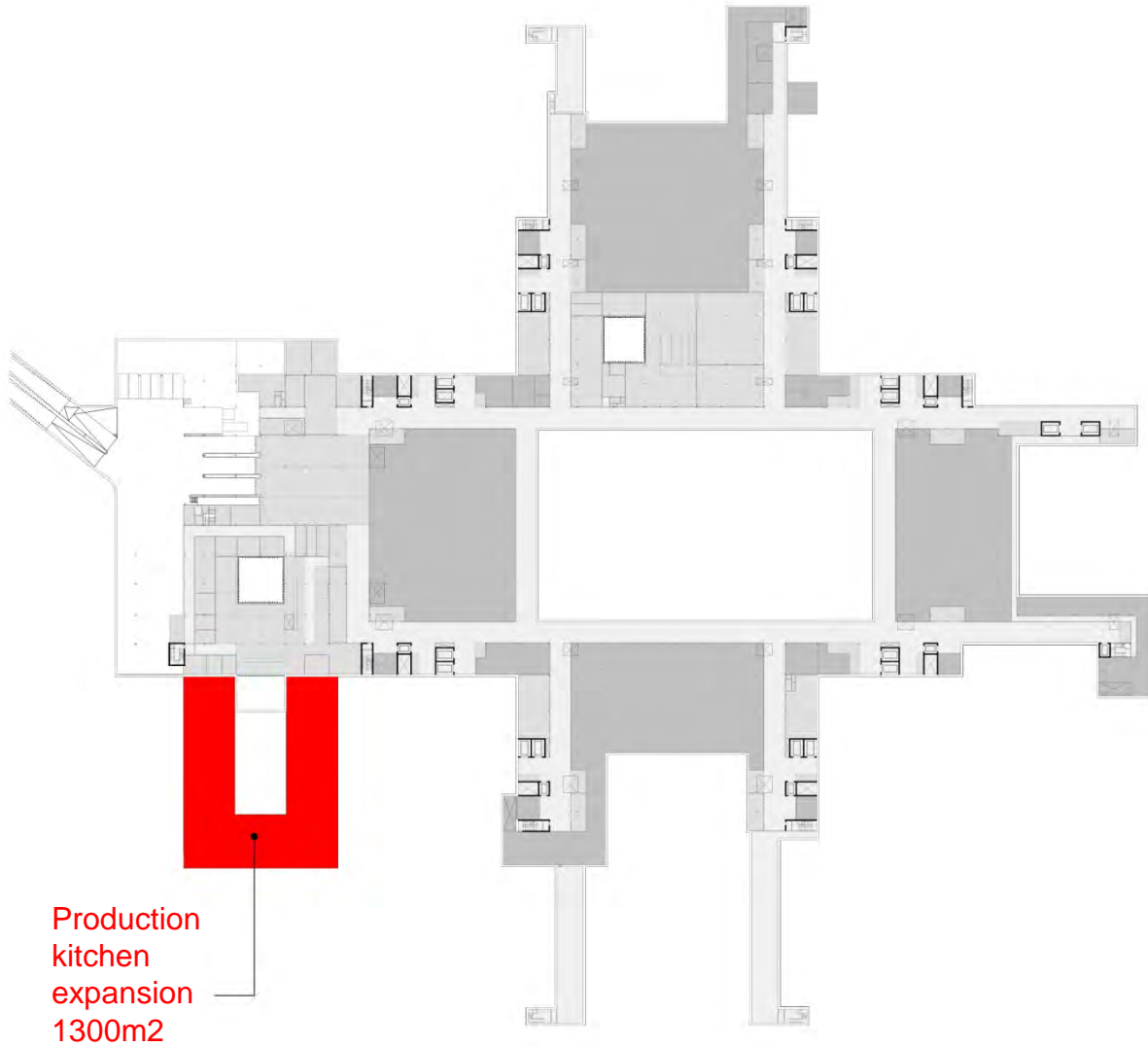


Loading Dock Access



Kitchen Expandability Strategy

Expansion within landscape

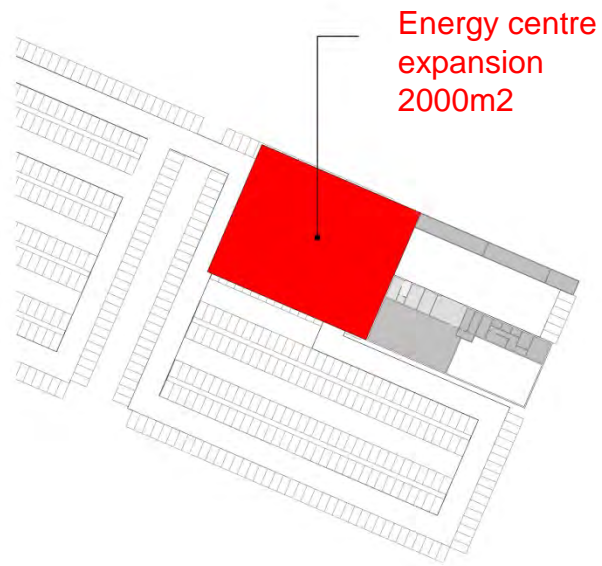


Expansion legend

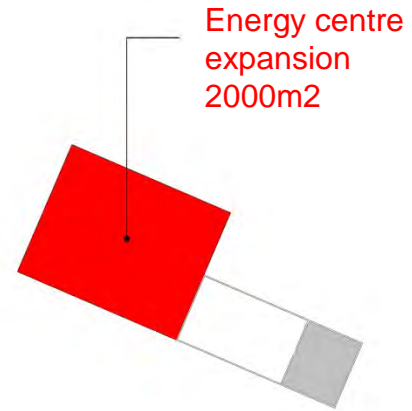
- Inside current structure
- New build extension



Energy Center Expansion



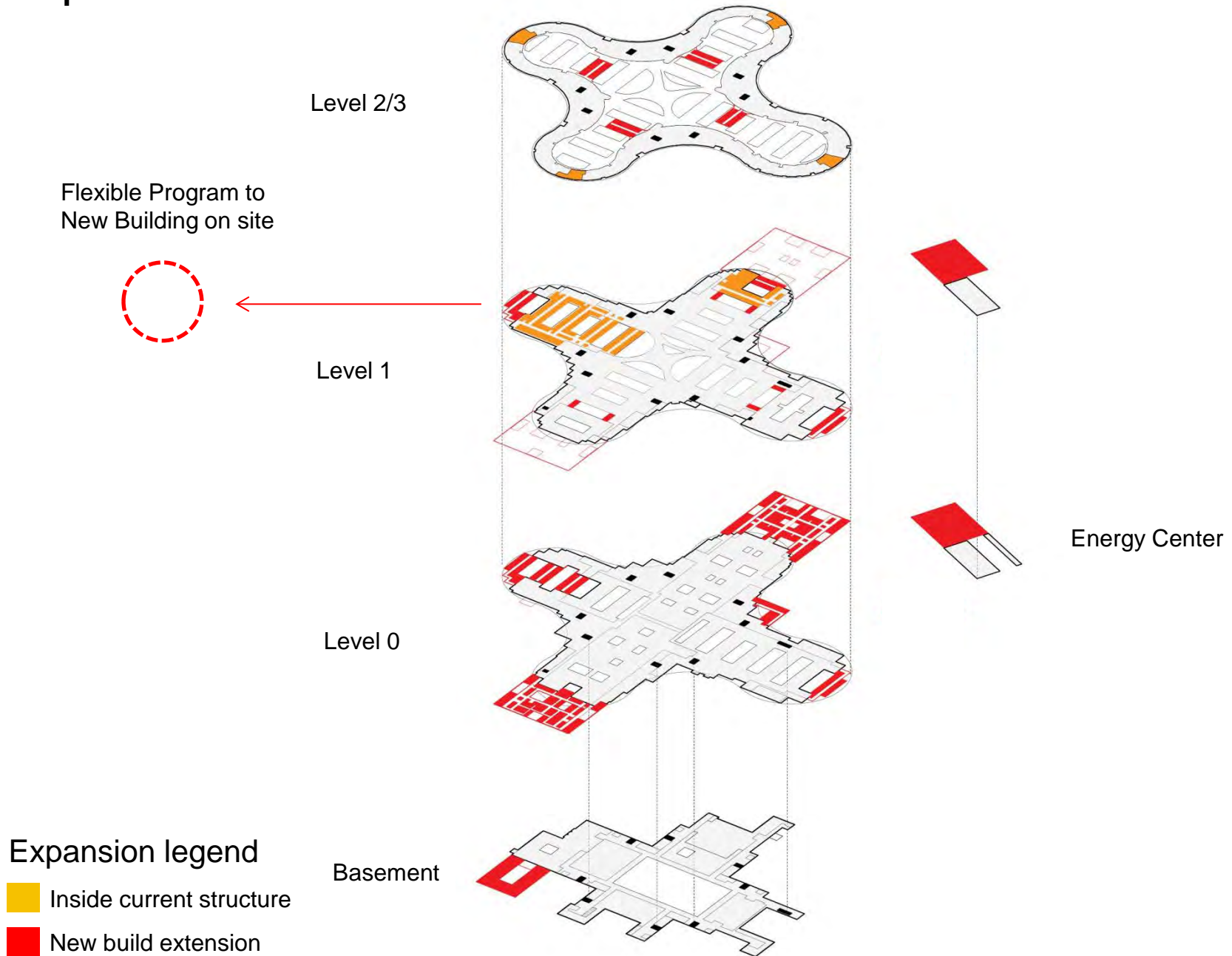
Level 0



Level 1

Expansion legend
■ New build extension

Expansion Overview

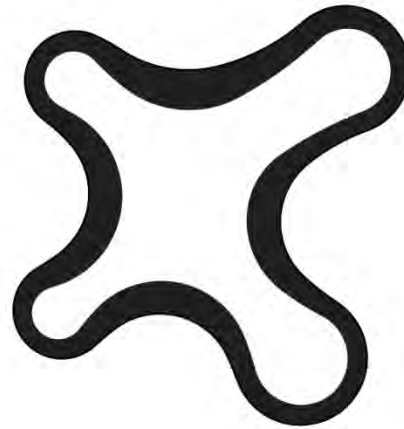






Conclusion:

- *Targeted building reduction in a more **compact and efficient building***
- *Functionality maintained or improved*
- *Proximities improved: **shorter distances** between functions*
- *Increased standardization: **cores and support areas symmetric and repetitive***
- ***Synergies** obtained and flows improved by integrating the service village*
- ***Functional positions** improved:*
 - *Administration / research / canteen cluster*
 - *Blood sampling / mammography by entrances*
 - *Offices standardized*
- *High degree of **flexibility** for the future with expandability strategies*
- ***Site plan improved:** access sequence and substantial landscape around the building*



Herzog & de Meuron - Vilhelm Lauritzen Arkitekter - Rambøll - MOE - VOGT

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