



MCA URBAN SPORTS AND HEALTH PARK

CONTENT

1. DESIGN INTENT AND FRAMEWORK

Establishing context and intent

- 1.1 Vision Statement
- 1.2 Site Concerns/Moves
- 1.3 Area Allocation

2. DESIGN APPROACH

Spatial, structural and sustainable thinking

2.1 COMPONENTS OF MASTER PLAN

Site-driven and contextual responses

- 2.1.a Site planning, building form and siting
- 2.1.b Urban Health Park & Edge Strategy
- 2.1.c Landmark Identity
- 2.1.d Fluid Public - Private Partnership
- 2.1.e The Element of Surprise

2.2 TECTONIC STRATEGY

Material logic and structural clarity

- 2.2.a Structural System
- 2.2.b Façade Language
- 2.2.c Spans & Bridges

2.3 SUTAINABILITY & LANDSCAPE STRATEGIES

Ecological and energy-conscious design

- 2.3.a Energy Response
- 2.3.b Landscape Integration

3. BUILT TYPOLOGIES

Components of the larger whole

- 3.1 Hotel + Business Centre
- 3.2 Clubhouse + Sports Training Centre
- 3.3 Cricket Museum
- 3.4 Clubhouse: Banquet + Public Parking

4. REPRESENTATION

Drawing the vision

- 4.1 Sections
- 4.2 Visualizations

1.

DESIGN INTENT AND FRAMEWORK

Establishing context and intent

1.1 Vision Statement

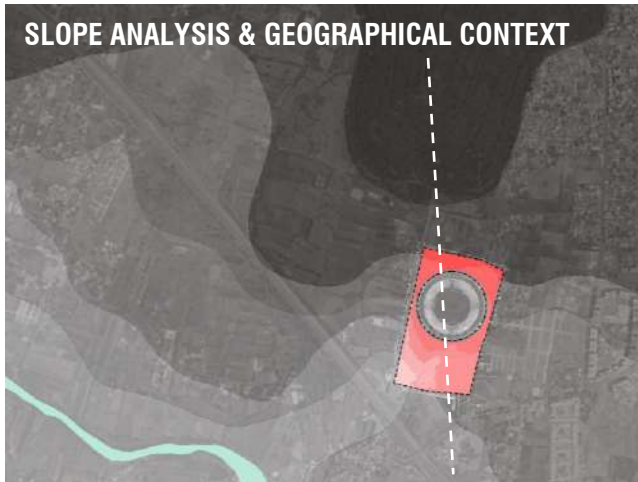
Sports play a vital role in individual and community well-being, fostering fitness, discipline and social engagement.

A stadium complex is more than just a sports venue; it serves as an urban catalyst for health and well-being, offering a range of accessibility and identity. Conceived as an **Urban Sports & Health Park**, it benefits both members and the public.



1.2 Site Concerns / Moves

Response to Immediate Geographical Context

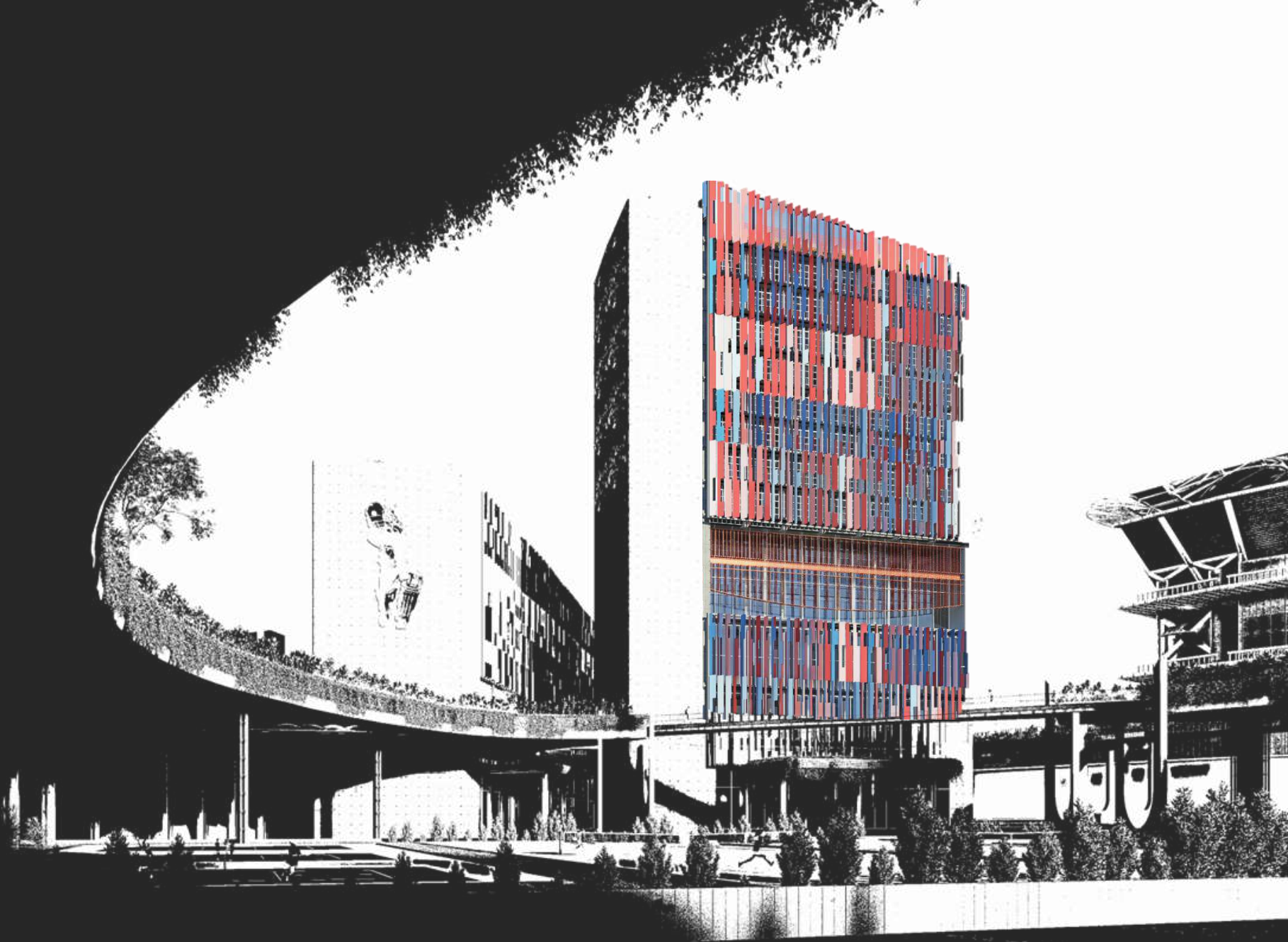


1.2 Site Concerns / Moves

Identity and Character

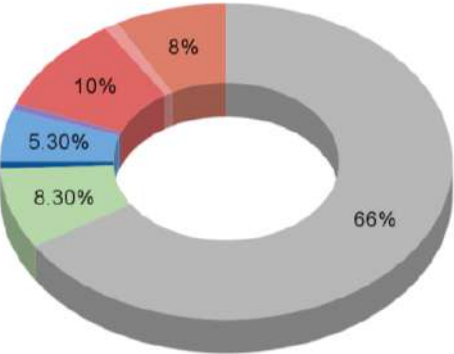


Inspired and rooted in the local, the design merges and stands out within the landscape, balancing clarity of movement with fluidity and a **landmark** identity as a park. A dynamic interplay of space and surprise, its **polychromatic façade** echoes the vibrancy of native ecology, creating an ever-evolving landmark of adaptability and place-driven expression.



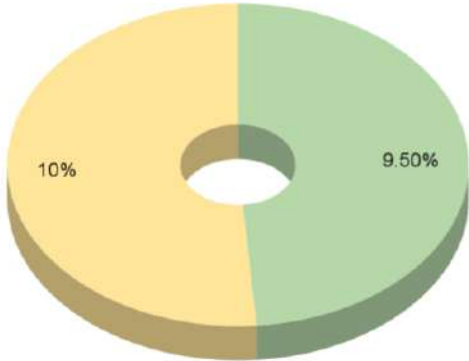
Given Programme Areas

- PARKING 66%
- OUTDOOR SPORTS 8.30 %
- INDOOR CRICKET PITCHES 0.7%
- CLUBHOUSE 5.3%
- CRICKET MUSEUM 0.7%
- BANQUET 10%
- BUSINESS CENTRE 1%
- HOTEL/PLAYER's ACCOMODATION 8%

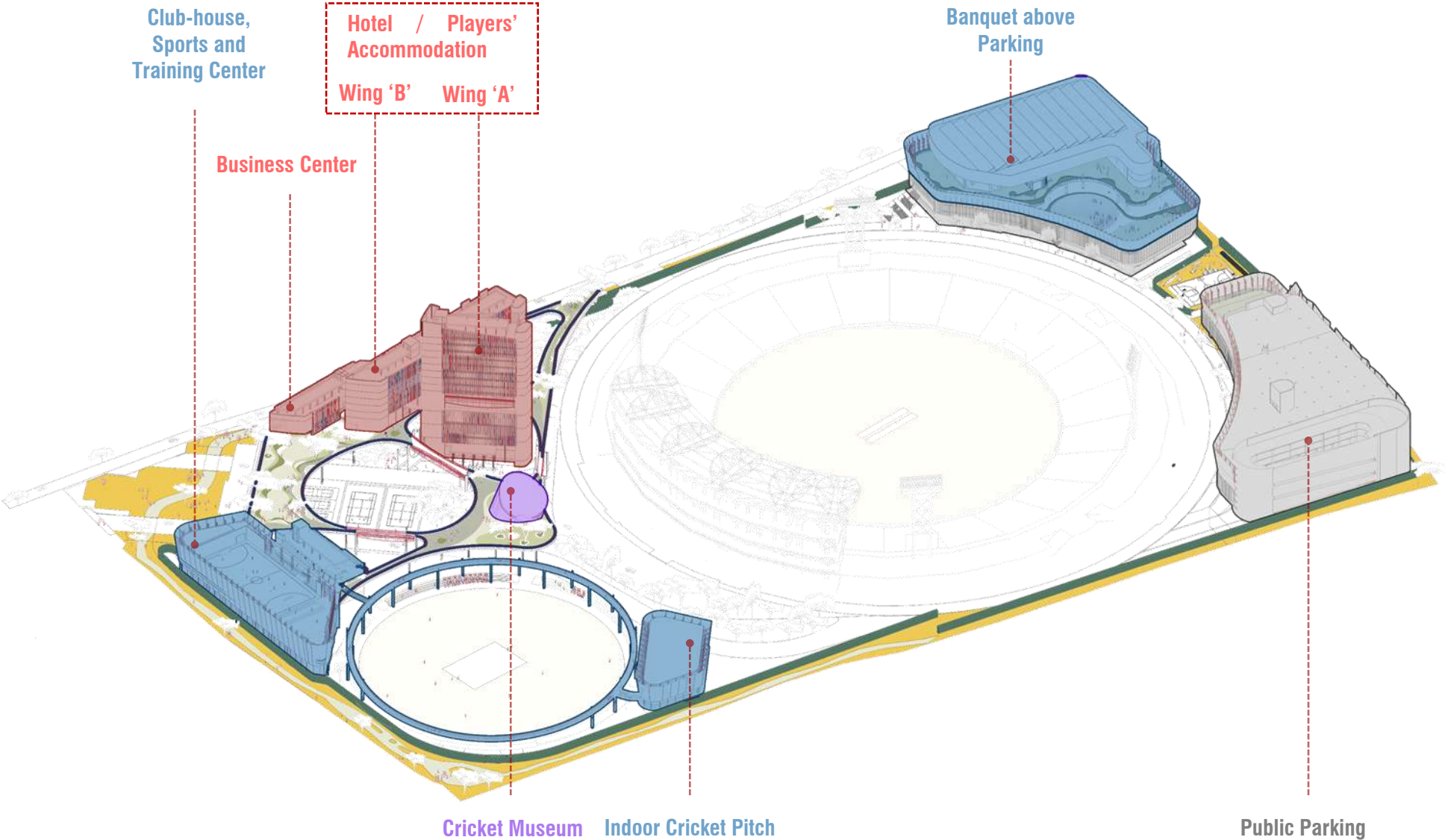


Value Addition

- NEW GROUND
- URBAN HEALTH PARK



1.3 Area Allocation



New Ground

The **existing ground** serves as a primary interface, with plazas, courtyards and gathering spaces encouraging interaction while preserving natural elements.

A **new elevated ground** optimizes space through:

Raised platforms for recreation and community use.

Elevated walkways maintaining connectivity.

Multi-tiered landscapes enhancing spatial efficiency.

By leveraging vertical space, the complex maximizes functionality while maintaining an open, inviting environment.



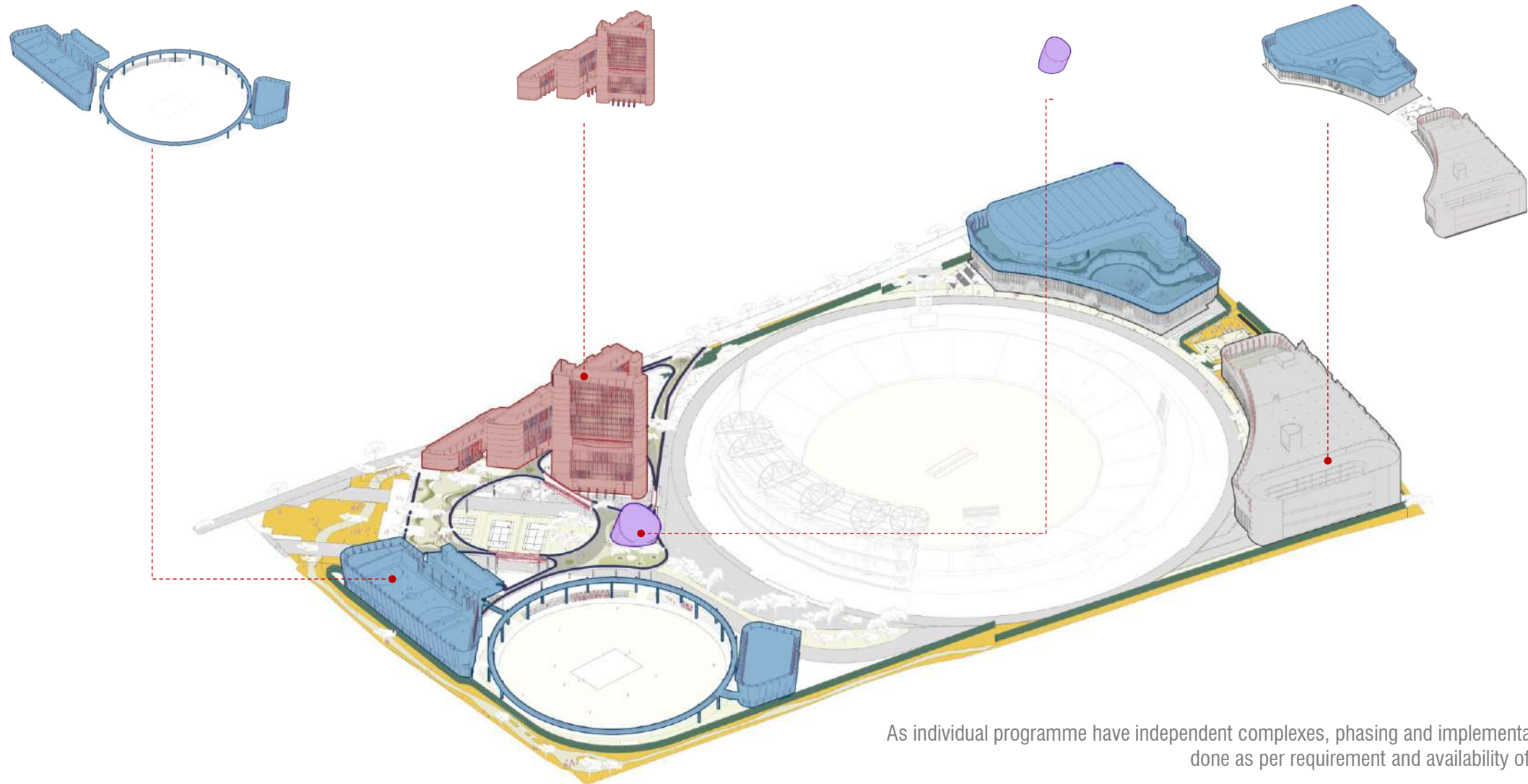
1.3 Area Allocation

CLUBHOUSE + TRAINING AND SPORTS
 $12,350 + 20,180 = 37,530 \text{ SQ.M}$

HOTEL/ PLAYERS' ACCOMMODATION + BUSINESS CENTRE
 $16,300 + 1,500 = 17,800 \text{ SQ.M}$

CRICKET MUSEUM
500 SQ.M

BANQUET + PUBLIC PARKING
 $21,050 + 1,39,350 = 1,60,400 \text{ SQ.M}$



As individual programme have independent complexes, phasing and implementation can be done as per requirement and availability of resources.



View of club house, hotel, museum from elevated jogging track



View of new ground, club house and sports' pitches from hotel wing A

2.

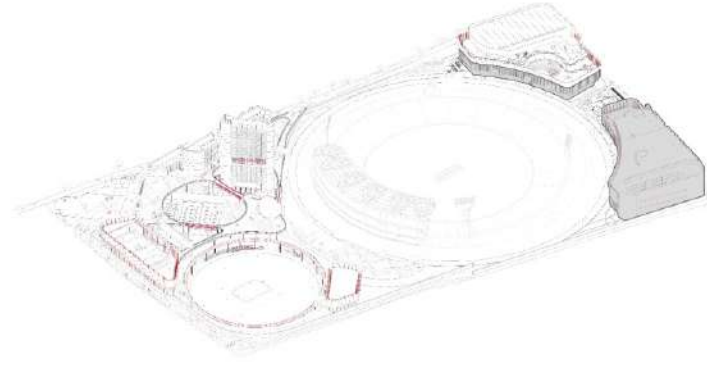
DESIGN APPROACH

Spatial, structural and sustainable thinking

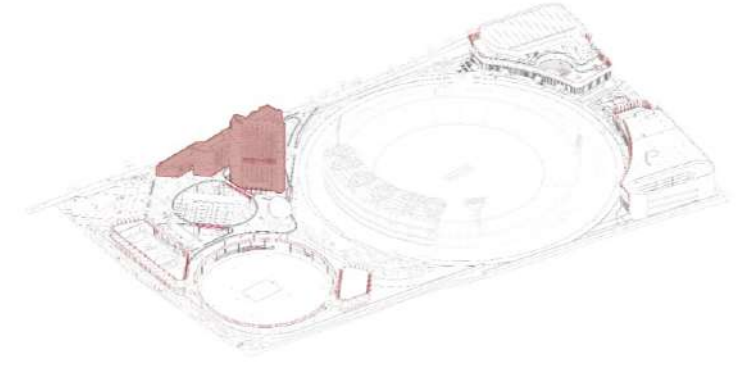
2.1 Components of Master Plan



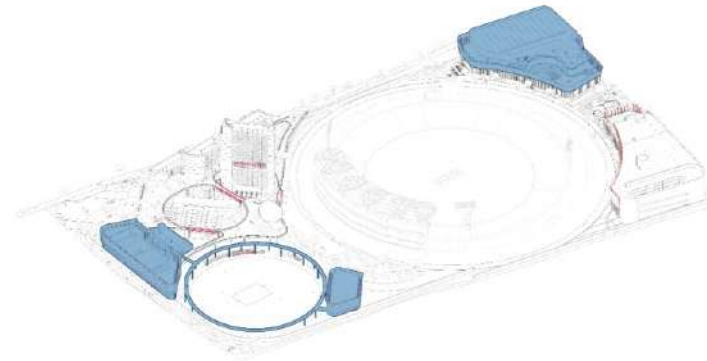
The **Urban Health Park** is open to all and the inside is as an urban sports and health park with regulated accessibility.



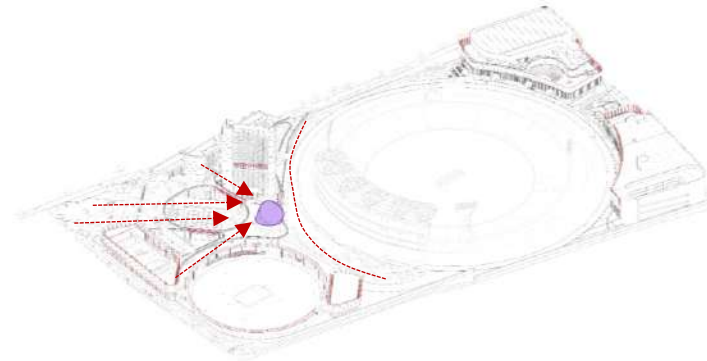
The larger chunk of **Parking** has been consciously separated.



The **Hotel and Business Centre** is allocated in three separate wings



The **Club House** has been placed in an interface with other sports activities and consciously separated from Banquet considering the flux of parking requirement for later.

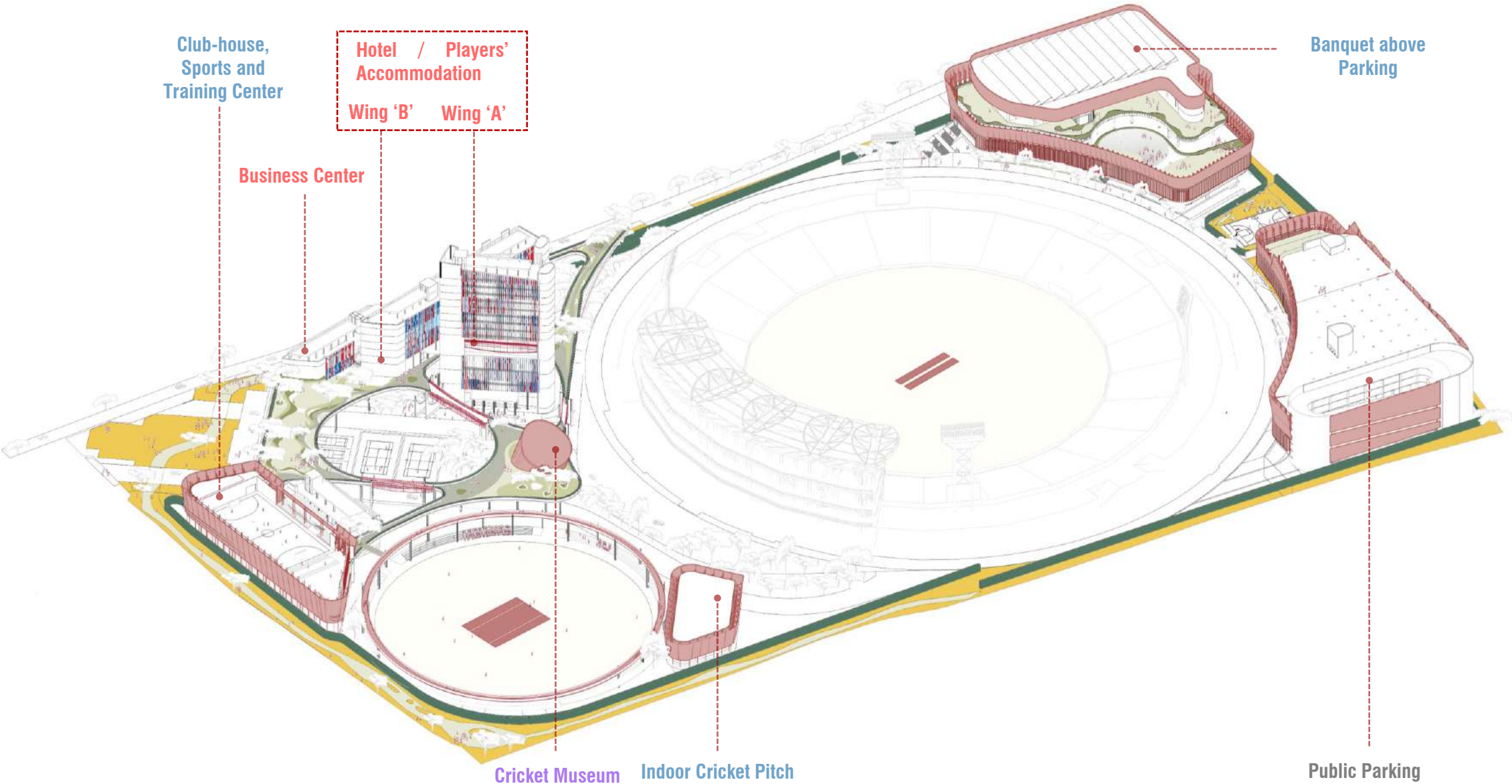


The **Cricket Museum** is placed at intersection of movements.



The **New Ground** maximizes functionality of recreational and community use of complex simultaneously at two different levels.

2.1.a Site Planning, Building Form and Siting

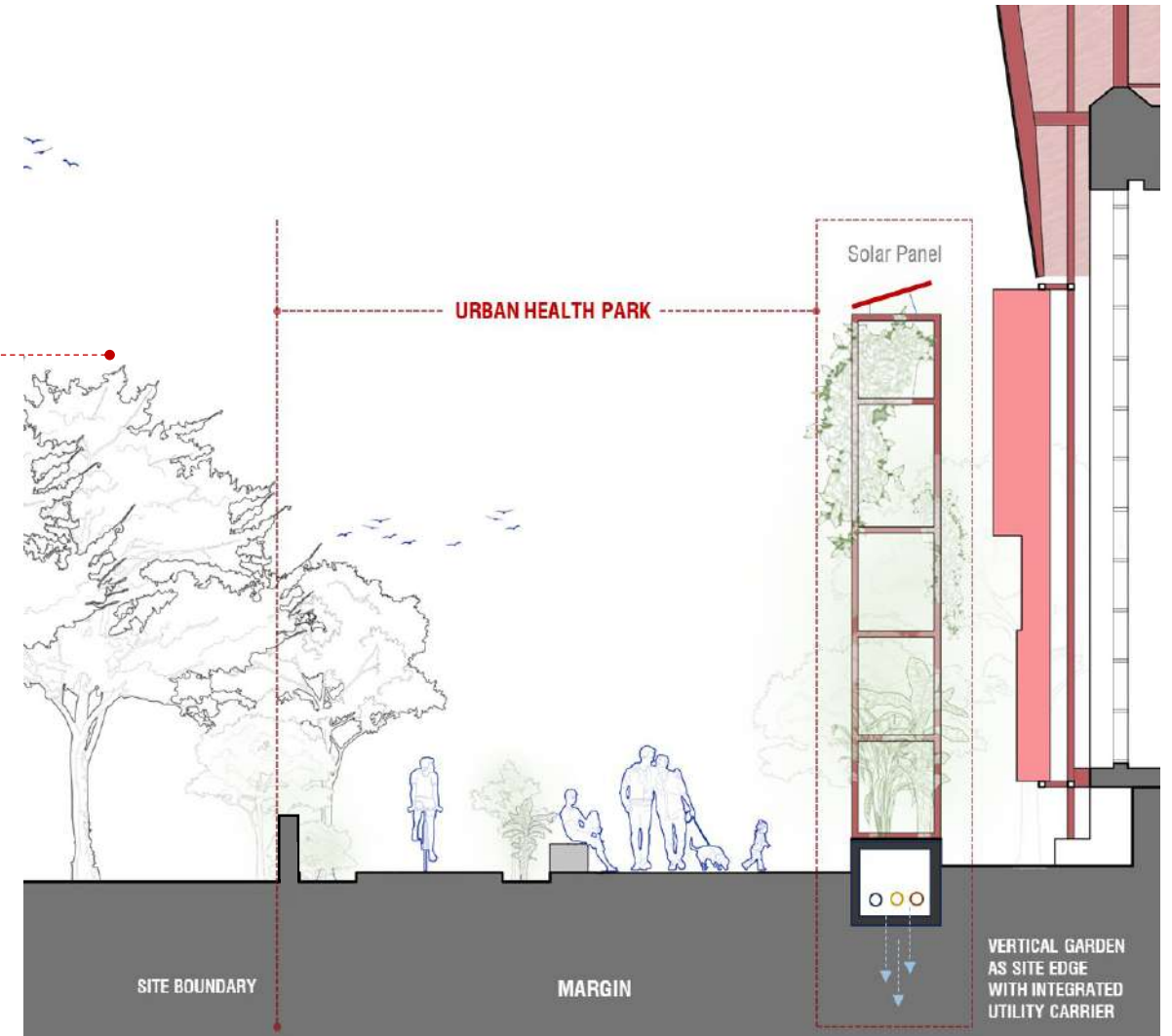
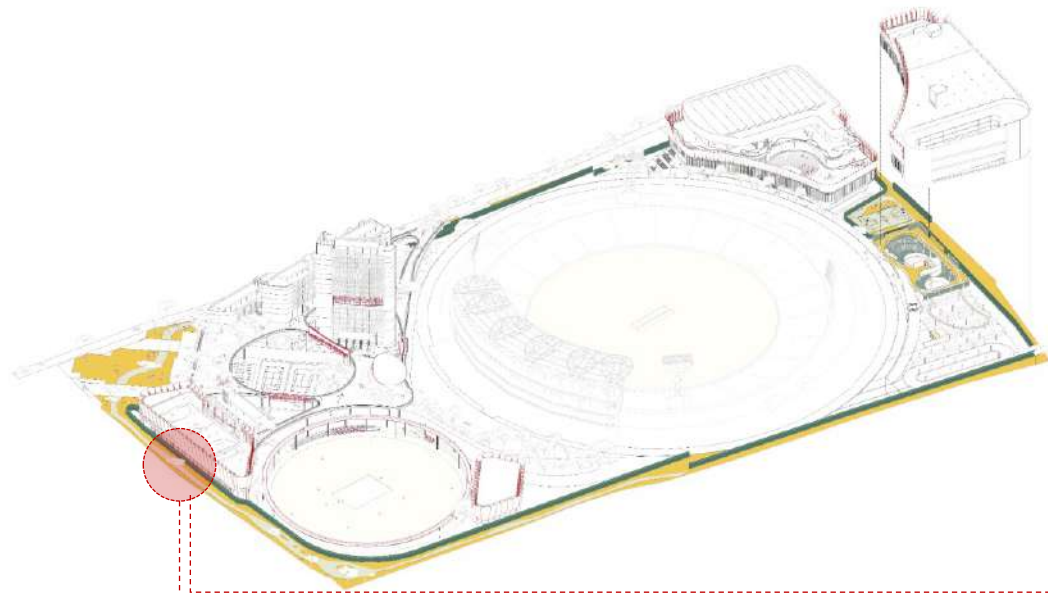




Aerial view of site

2.1.b Urban Health Park and Edge Strategy

The edge response of the park is through an Urban Health Commons which is open to all and the inside is as an urban sports and health park with regulated access.





View of Urban Health Park



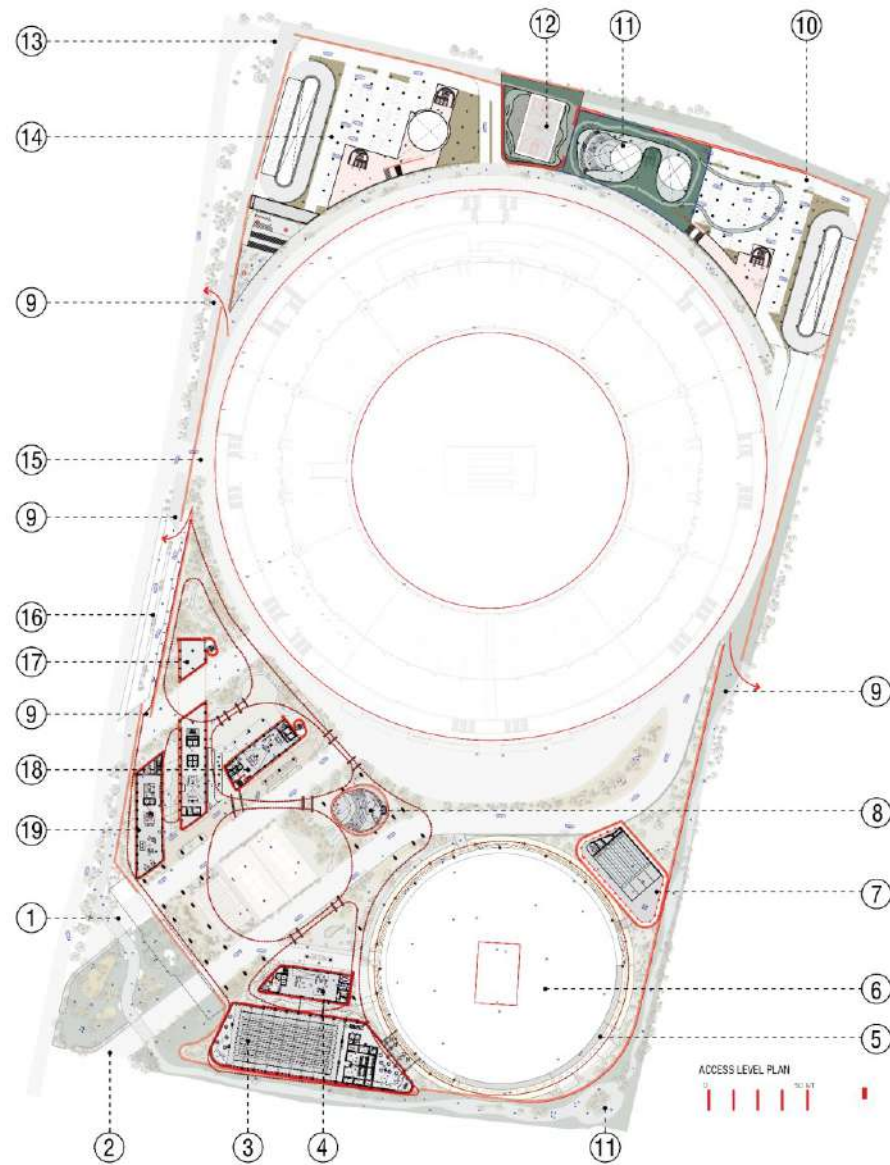
View of Urban Health Park/ Satellite Farm

2.1.c Landmark Identity



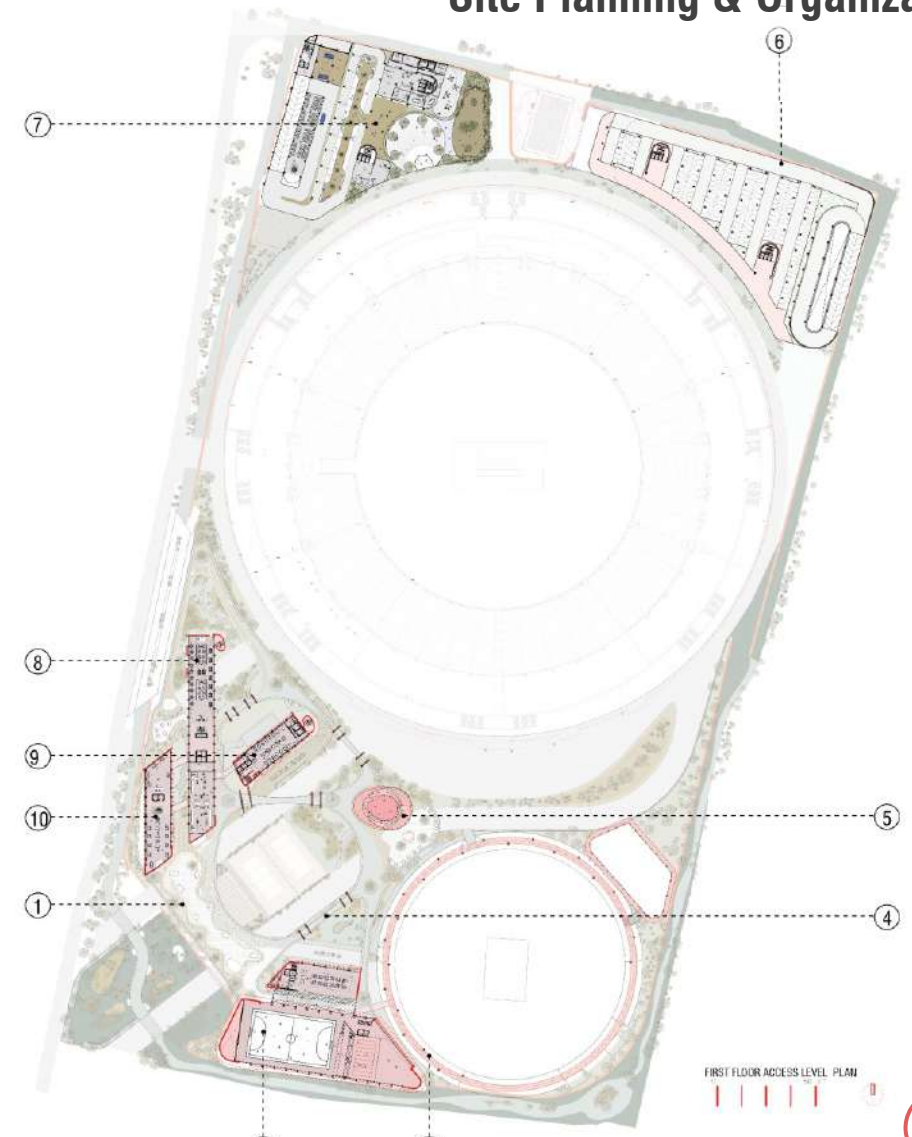
View of MCA stadium complex from Mumbai-Pune Highway

Site Planning & Organization



- 1. VIP MEMBERS HOTEL ENTRY
- 2. CLUB MEMBERS VEHICULAR ENTRY
- 3. SWIMMING POOL, FUTSAL AND CAFETERIA
- 4. CLUB HOUSE
- 5. PAVILLION SITTING
- 6. PRACTICE GROUND
- 7. INDOOR PRACTICE PITCHES
- 8. CRICKET MUSEUM
- 9. PEDESTRIAN ENTRY-EXIT GATES (DURING MATCH DAYS ONLY)
- 10. PARKING
- 11. URBAN HEALTH PARK
- 12. SATELLITE FARM (ON MATCH DAYS ONLY)
- 13. MEDIA ENTRY EXIT
- 14. PARKING, BANQUET HALLS & BALL ROOM
- 15. GROUND EQUIPMENTS ENTRY EXIT
- 16. CAB DROP OFF AREA
- 17. HOTEL: WING B
- 18. HOTEL: WING A
- 19. BUSINESS CENTER

Ground Floor Plan



- 1. NEW GROUND
- 2. CLUB HOUSE
- 3. ELEVATED JOGGING TRACK
- 4. BRIDGE
- 5. CRICKET MUSEUM
- 6. PMODA PARKING
- 7. BANQUET DROP OFF & RECEPTION LOUNGE
- 8. HOTEL: WING B
- 9. HOTEL: WING A
- 10. BUSINESS CENTER

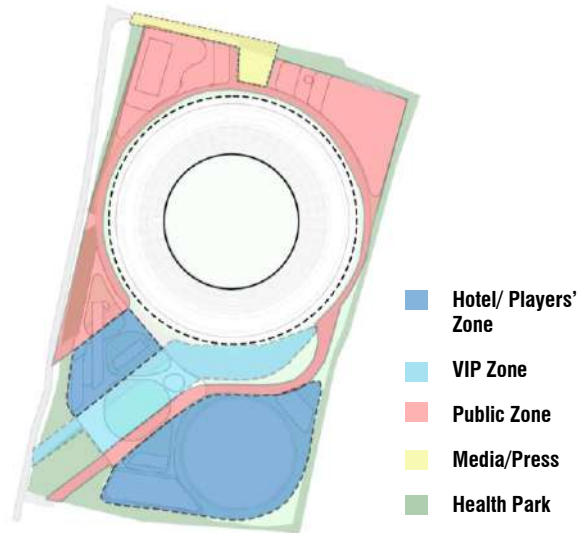
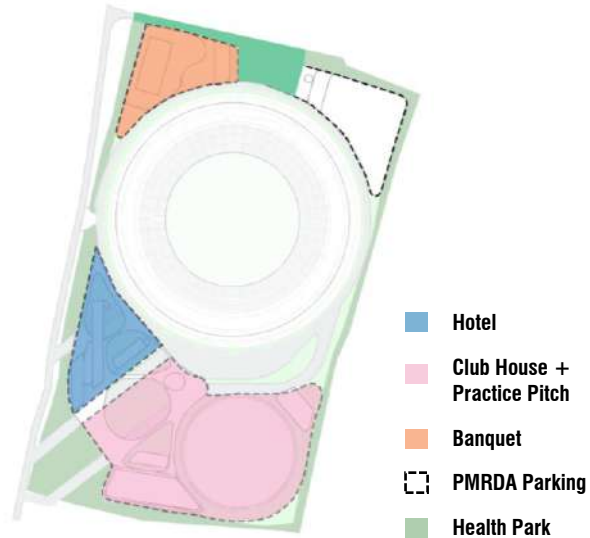
Podium Floor Plan

Other than
Match Day

Match Day

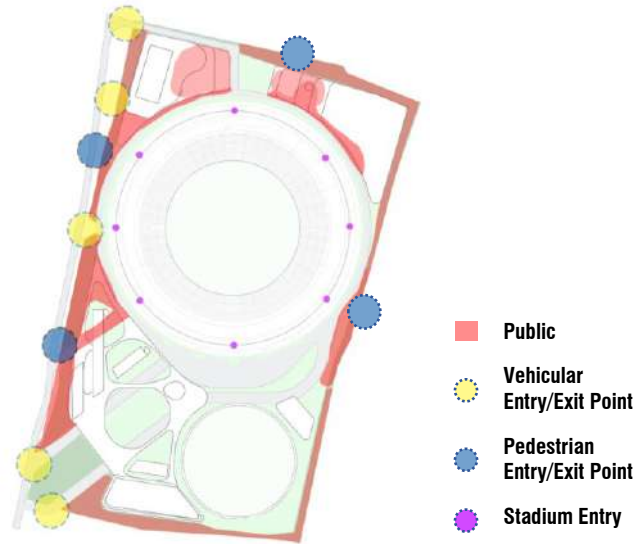
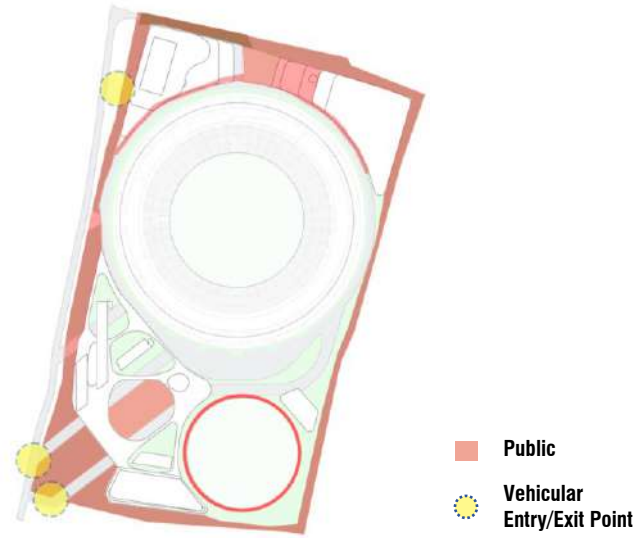
Zoning

Clear public, semi-public, and private spaces for usability.



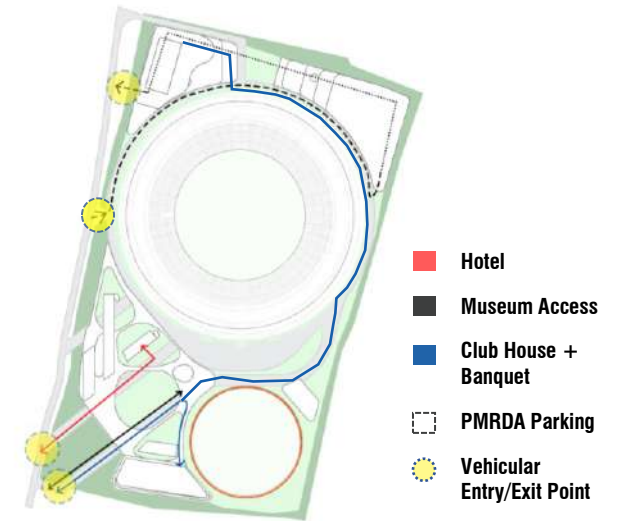
Pedestrian Zoning

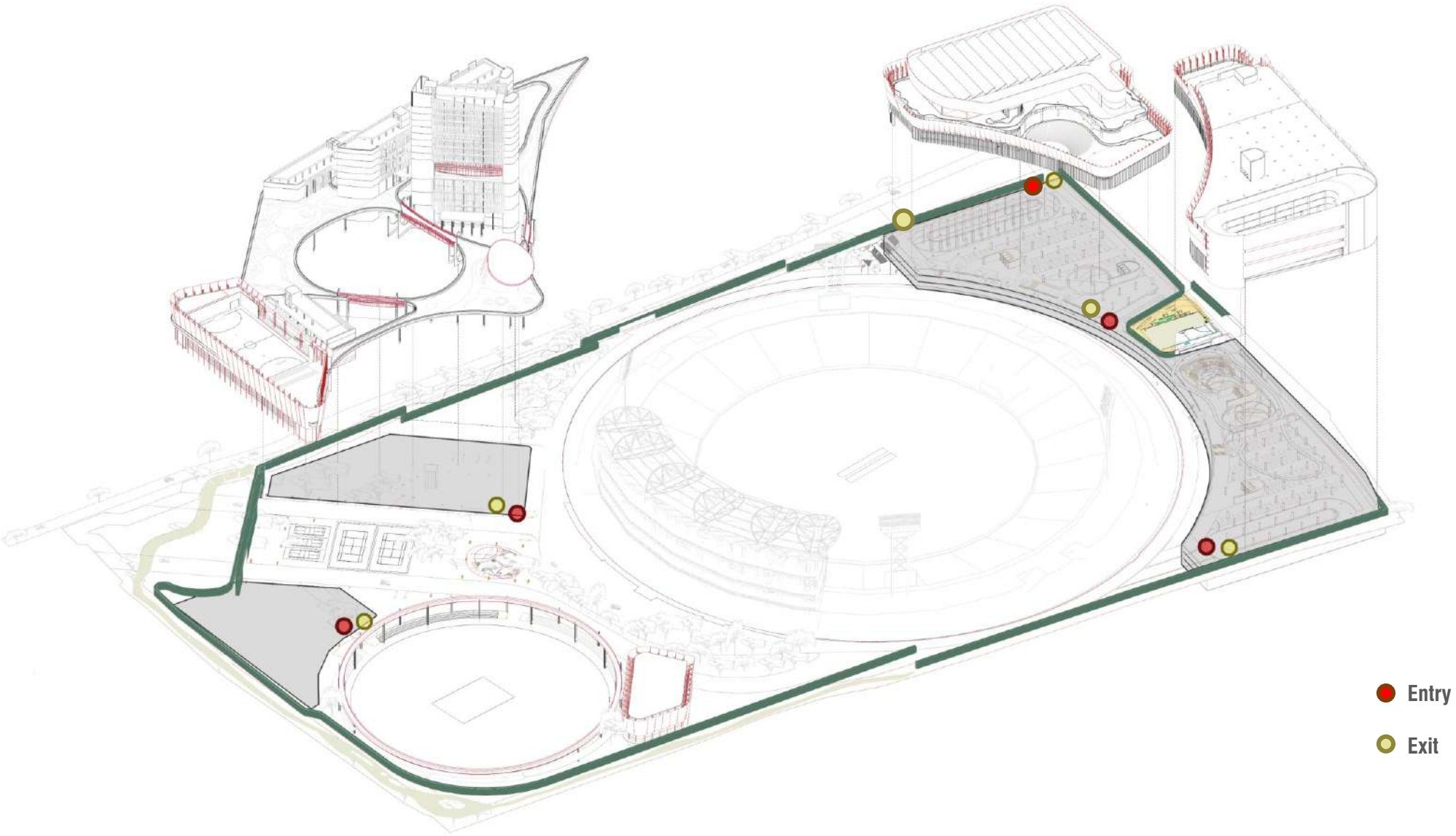
Pedestrian movement and Public zones on site



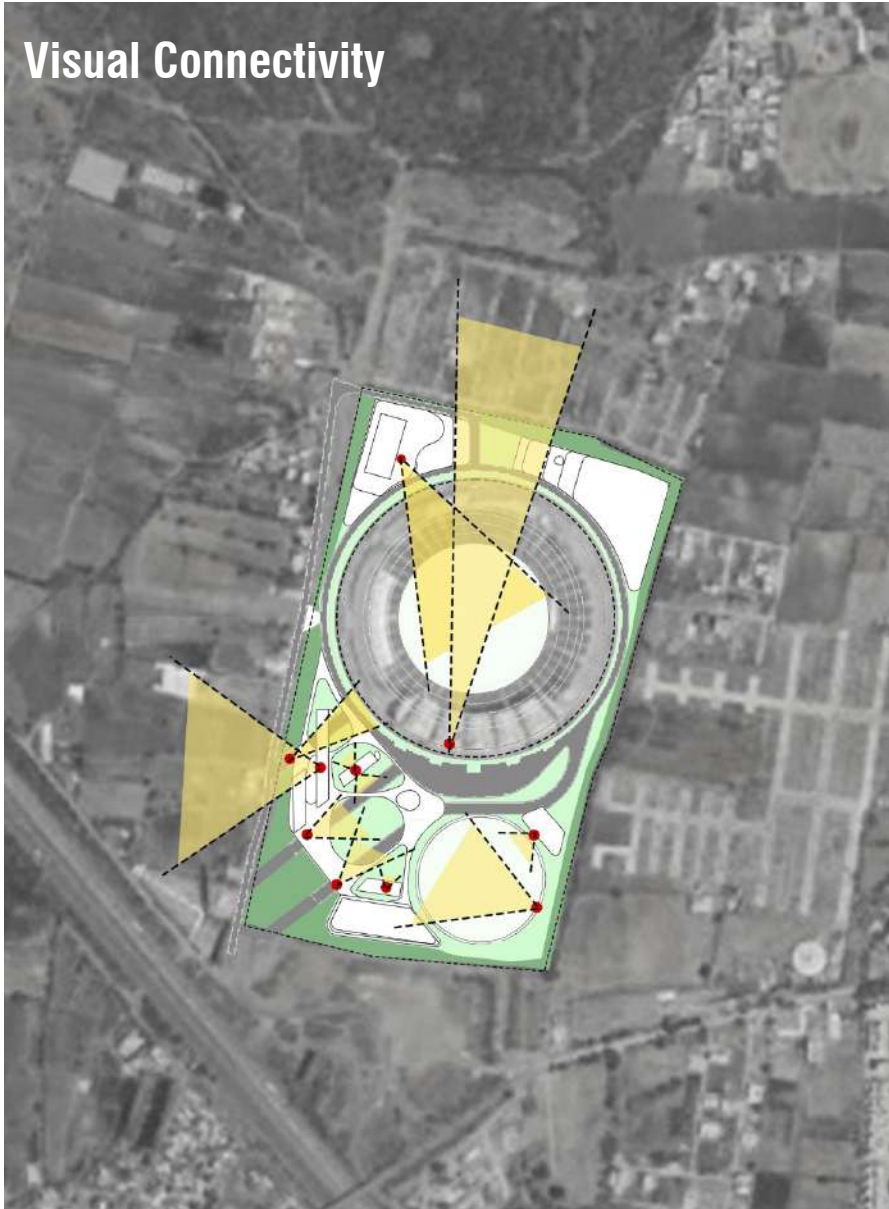
Vehicular Ingress-Egress

Various movement and circulation at site level





Visual Connectivity





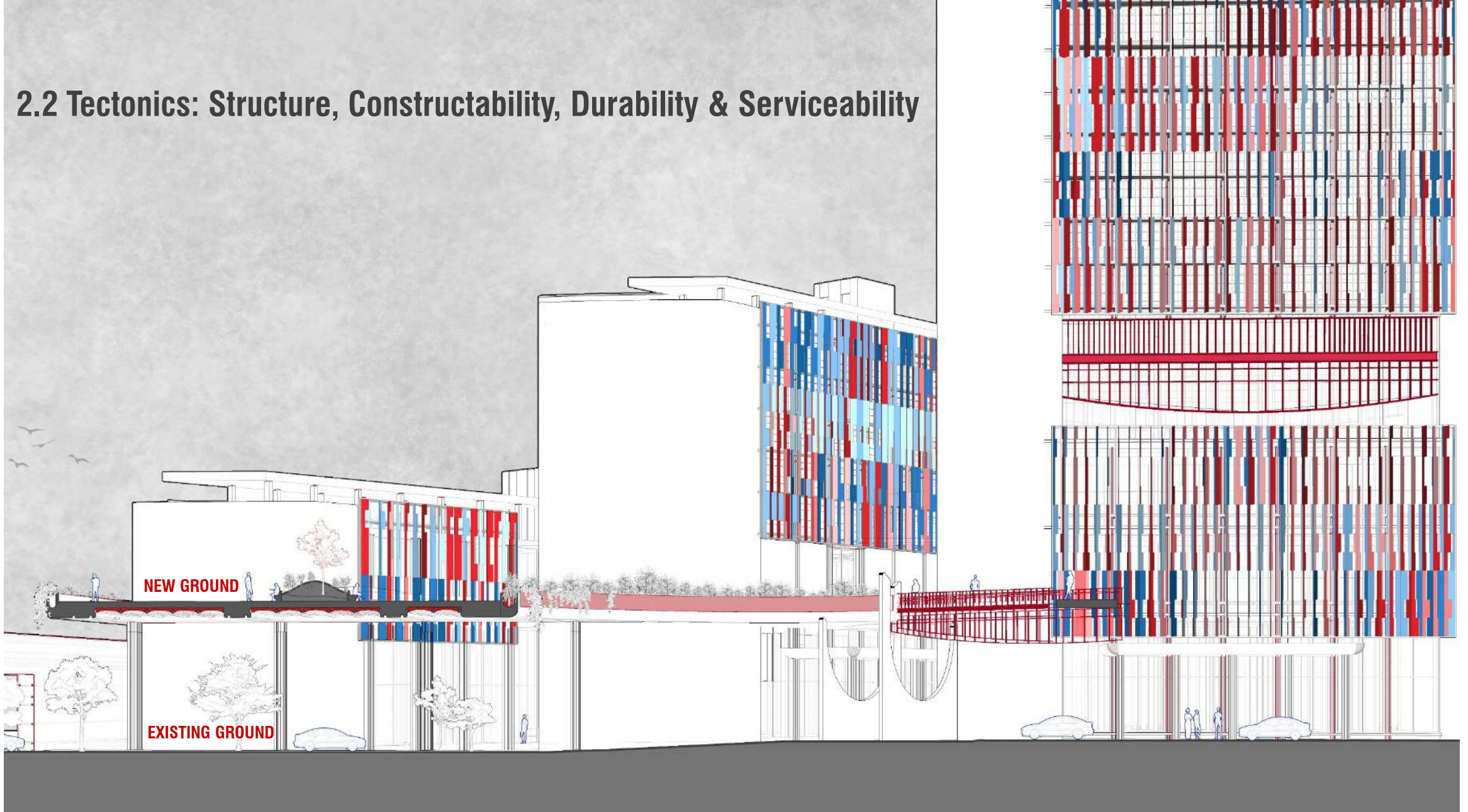
View from 'New Ground'

2.1.e Element of Surprise



View of hotel from club house access road

2.2 Tectonics: Structure, Constructability, Durability & Serviceability



Structure Evolution

Informed Structural System Choice -
Selection based on
Cost + Carbon
impact analysis



Structural Efficiency with Pre-Cast Jack-arch

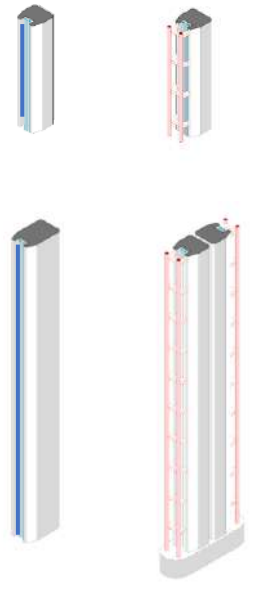
- a. Reduces cement & steel quantity
- b. Additional benefits: **lesser time due to precast, lesser shuttering cost, minimizes reinforcement & onsite formwork costs**

Lower Embodied Carbon in Cement

- a. Use of **slag, fly ash**, and other supplementary materials
- b. Incorporation of **cement additives**
- c. Use of **15–20% recycled aggregate**

Innovative Materials

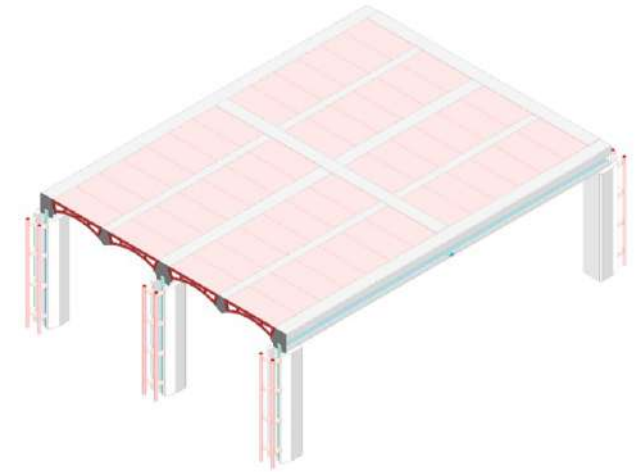
- LC3 Cement** - Low carbon cement alternative
- Hempcrete** - Lightweight, insulating, carbon-sequestering
- Mudcrete** - Earth-based, low-impact material



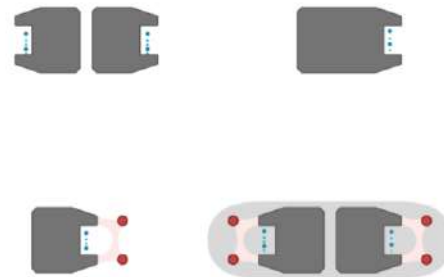
Column modules as per structural and service requirements



Hollow pre-cast jack-arch module, RCC pre-cast joist & assembly



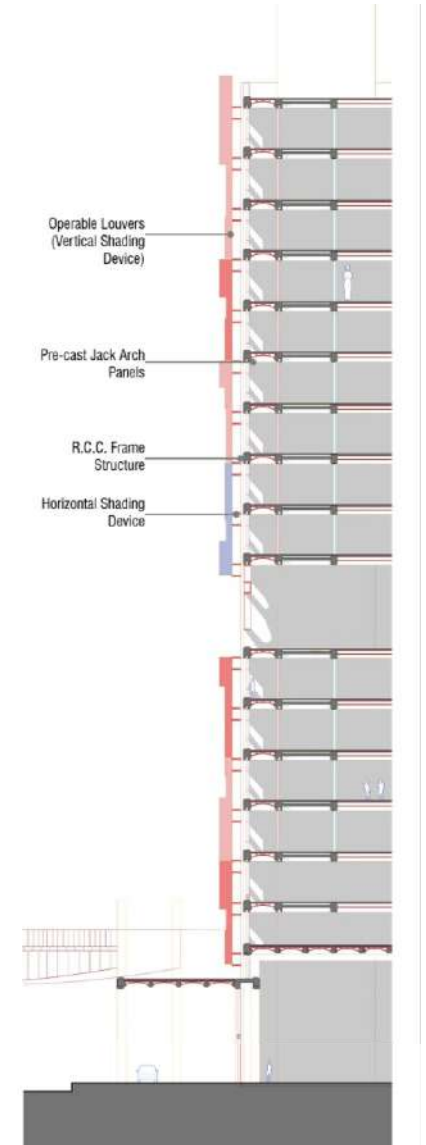
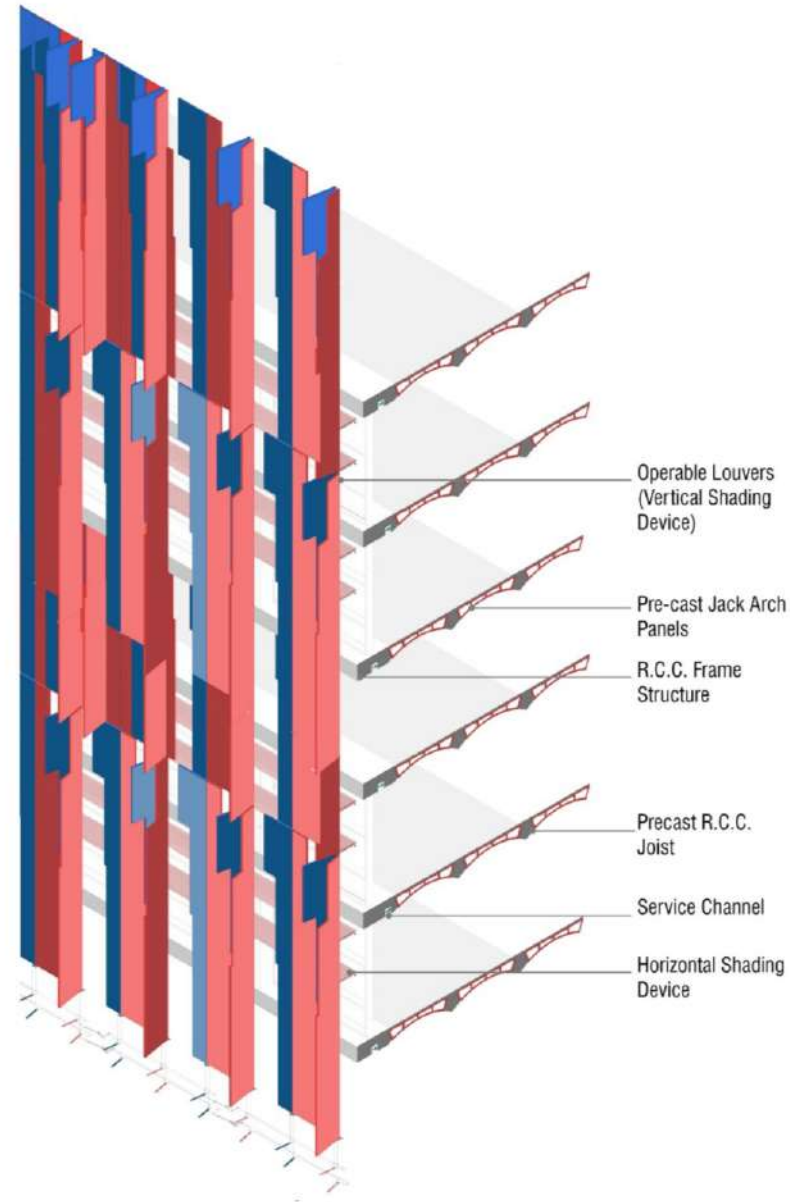
Assembly of modules



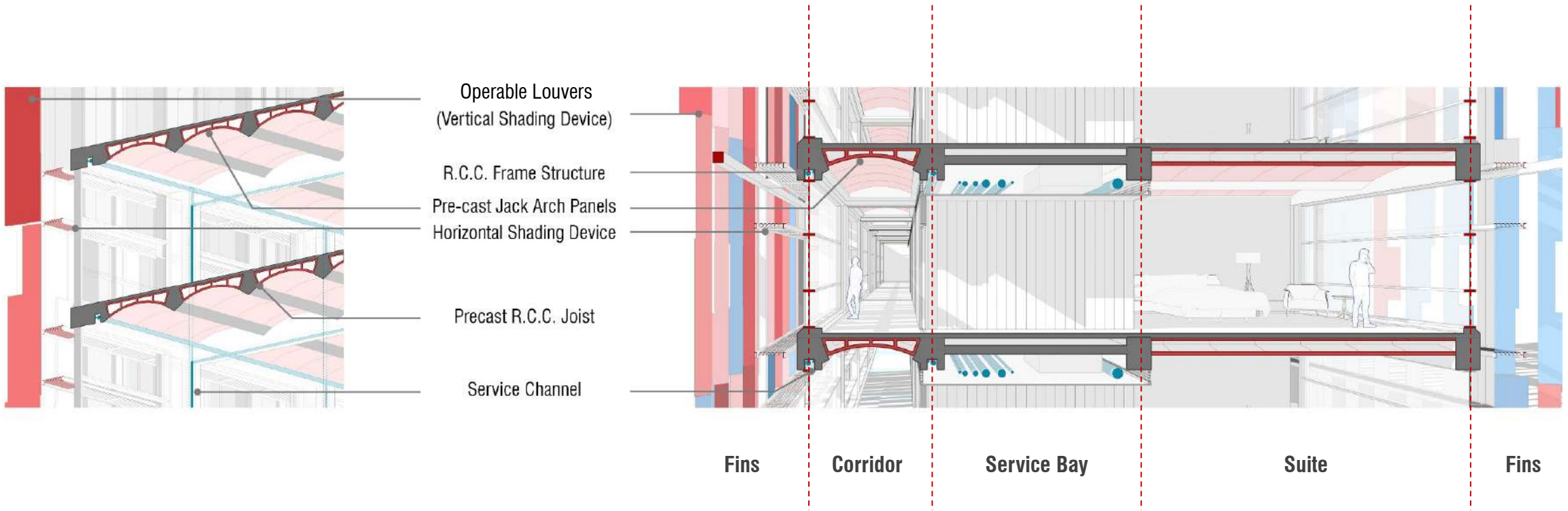
2.2.b Façade Language



The climate-responsive façade, inspired by **Shivaji Maharaj's strategy of surprise and camouflage**, blends movement, nature and form to craft an immersive spatial experience. Its polychromatic identity draws from the unique hues of the local squirrel **Shekaru**.



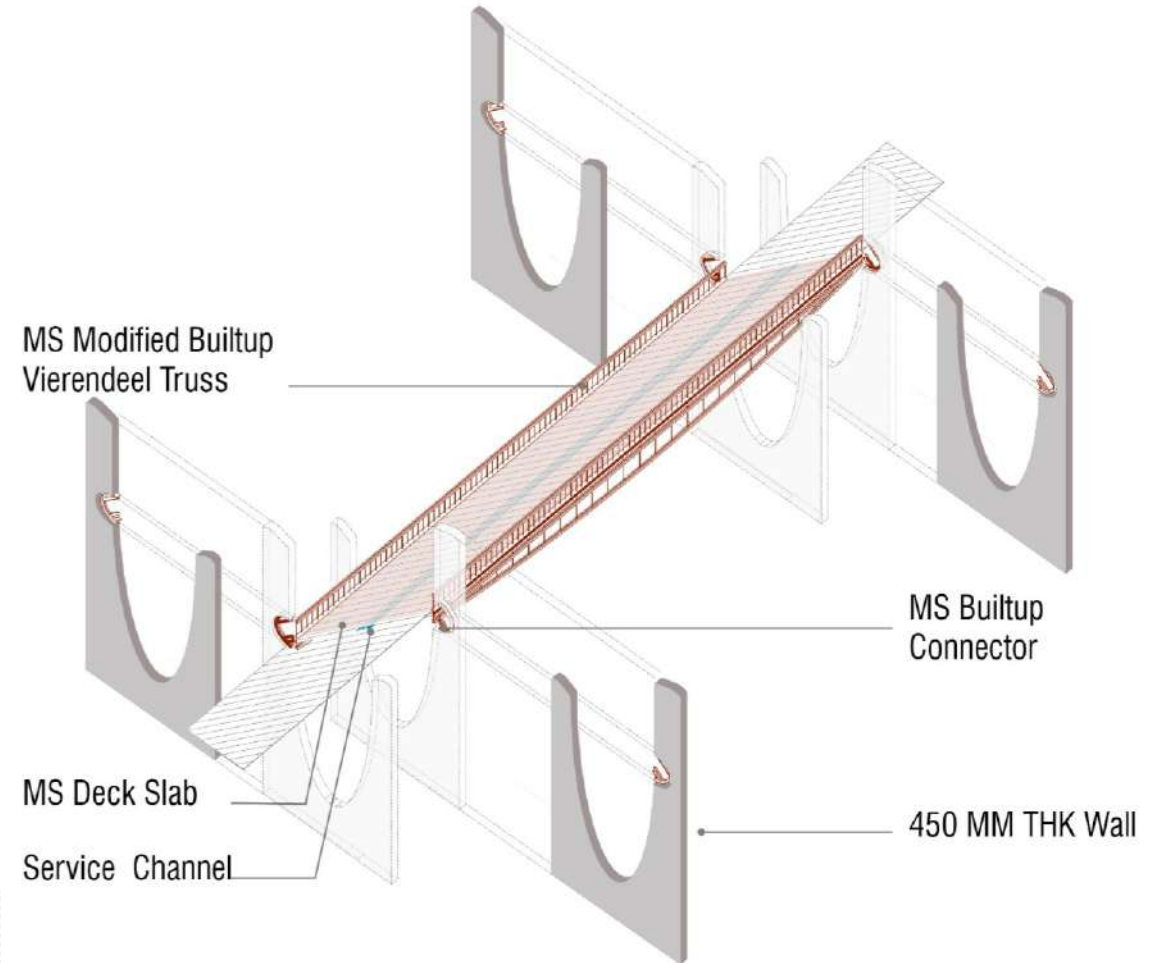
Expression of Structural System and Facade



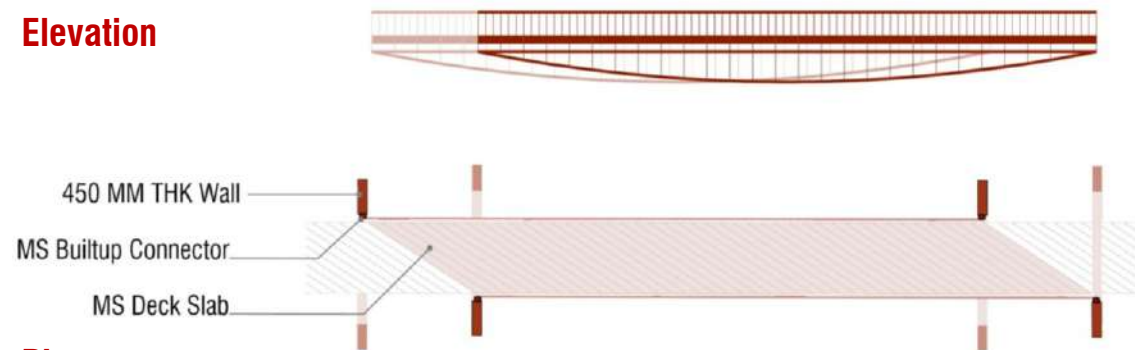
2.2.c Spans and Bridges



Isometric view



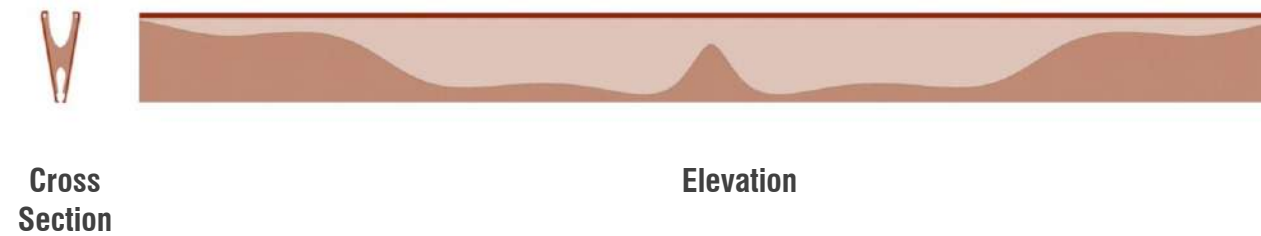
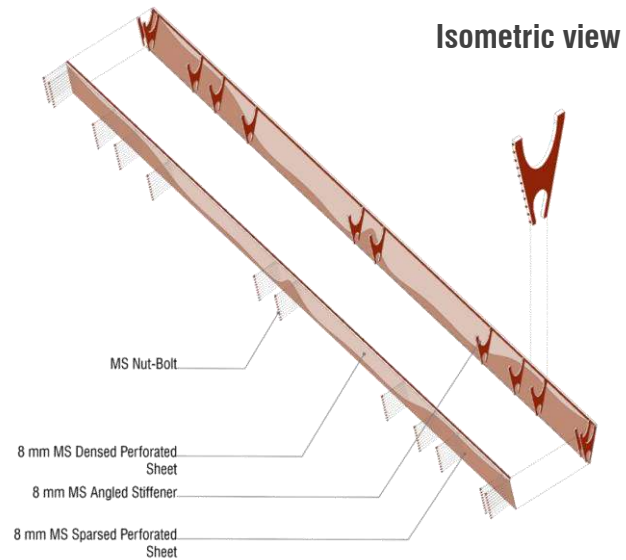
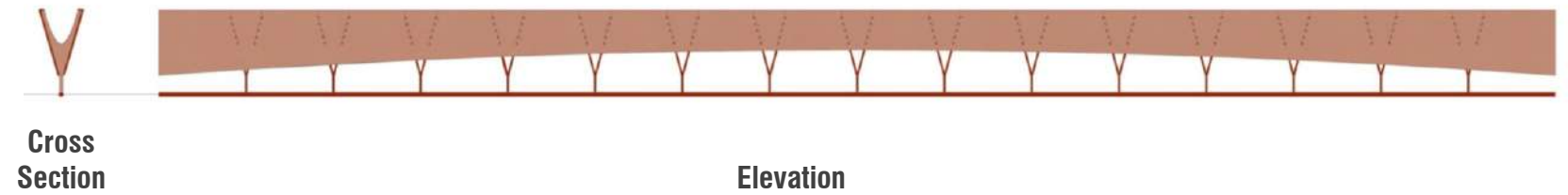
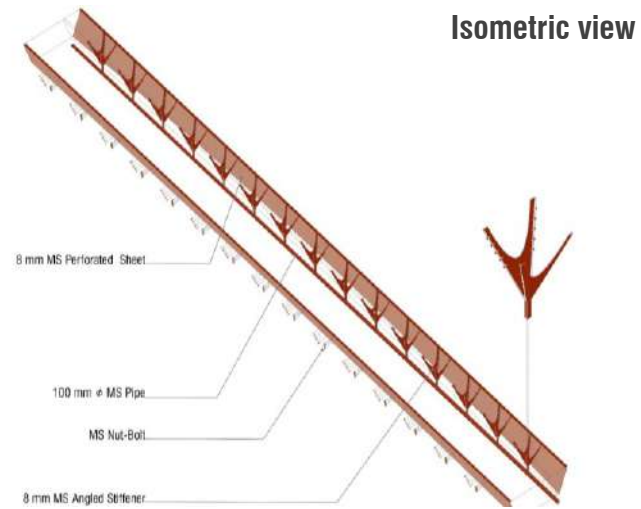
Elevation



Plan

2.2.c Spans and Bridges

Swimming Pool





View of swimming pool

Sustainability Measures

Landscaping

15%

Non-building exposed paved area.

Support local flora and fauna

Use of appropriate species

Reduced Urban Heat Island Effect

Nature based solutions for water and waste systems

Eco STP, Constructed wetlands, Underground storage tank



Health and wellbeing, improved thermal comfort & walkability

2.3.a Energy Response

32%

Cost covered with renewable energy.

49%

Cost savings annually for energy with proposal.

100%

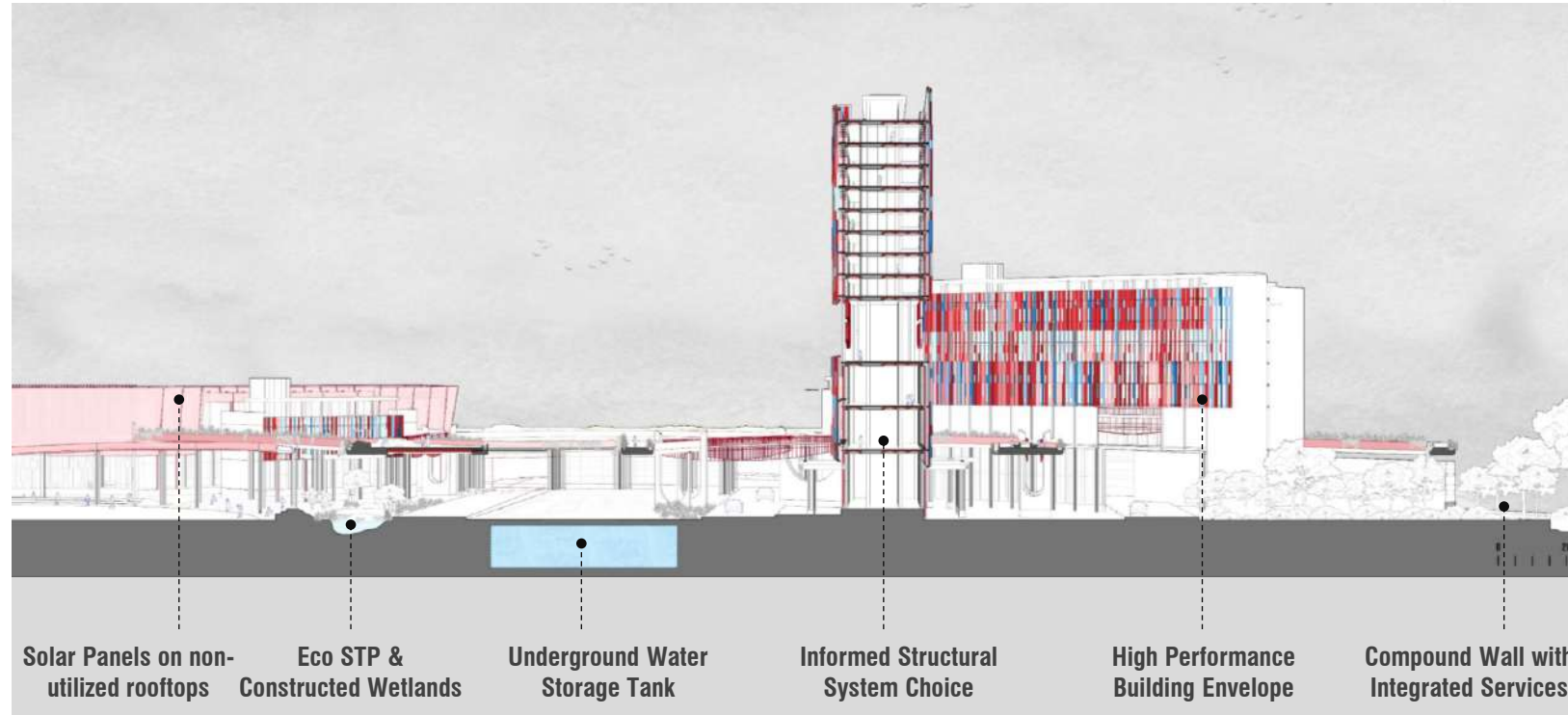
100% daylight without glare and sun-Exposure.

100%

100% fresh air system.

53%

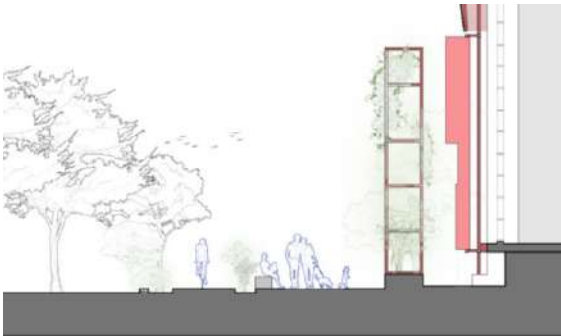
Freshwater consumption reduced by 53%.



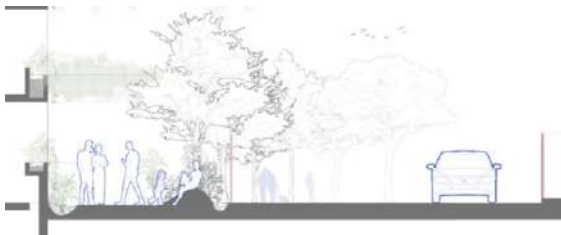
Landscape Strategy

The edge response of the park is through an Urban Health Commons open to all and the inside as an urban sports and health park with regulated accessibility.

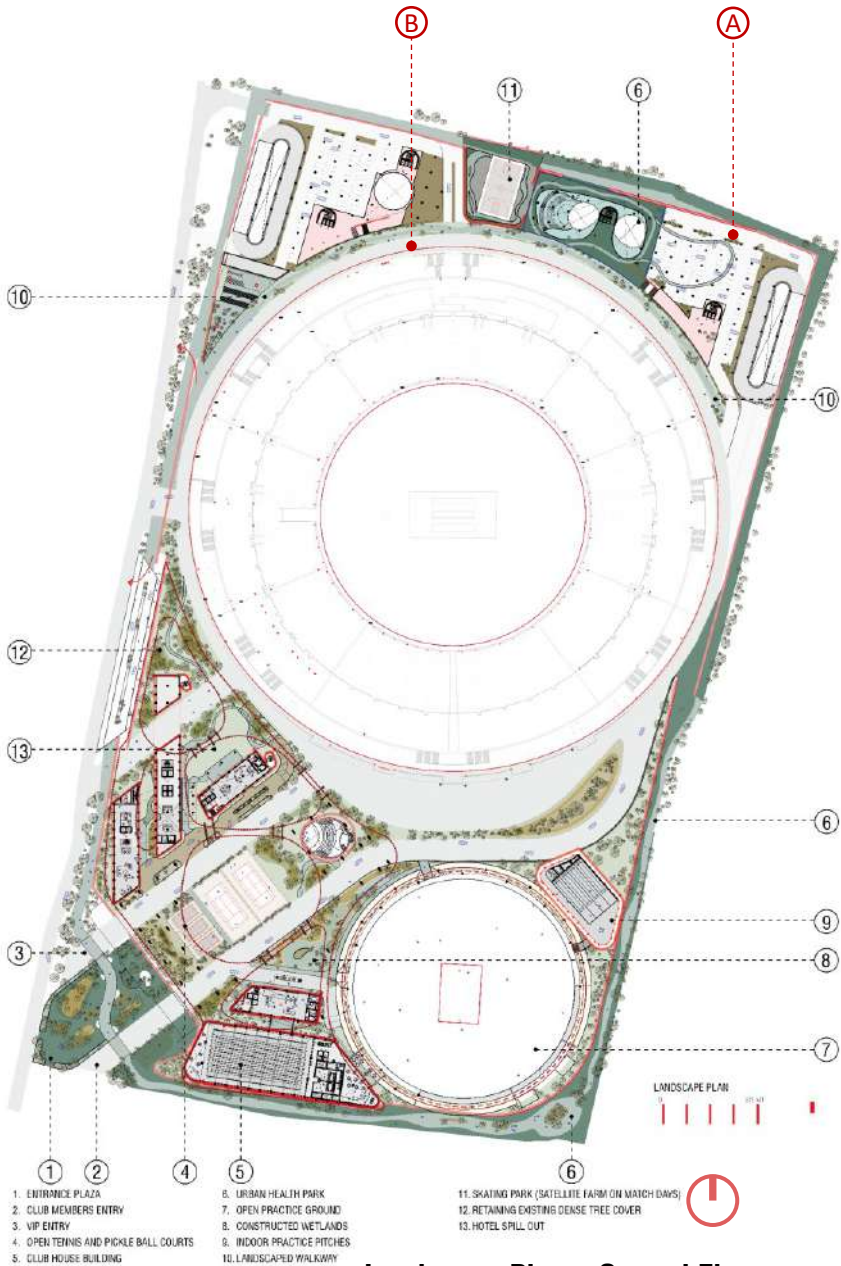
Plantation Strategy responds to high dust capturing potential in different seasons.



A. Section of Urban Edge

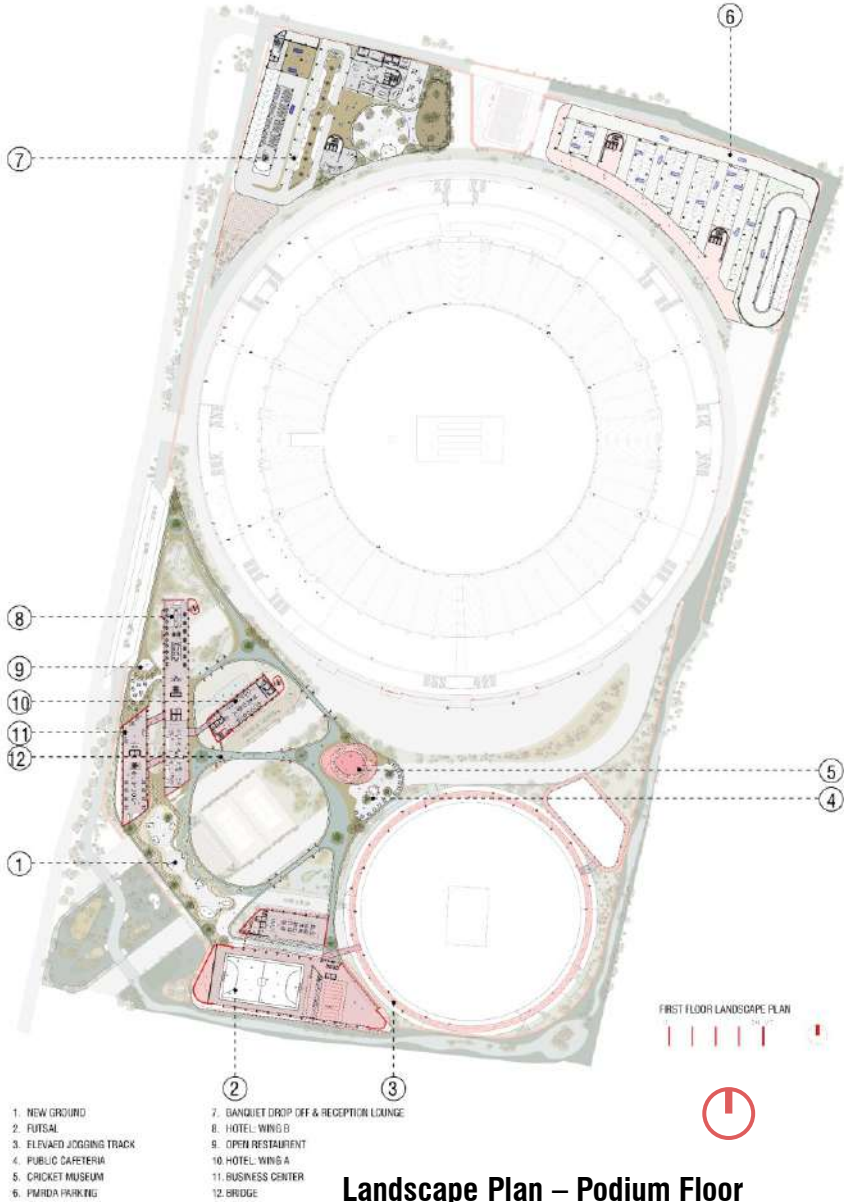


B. Section of Edge along Parking & Internal Road



Landscape Plan – Ground Floor

2.3.b Landscape Integration

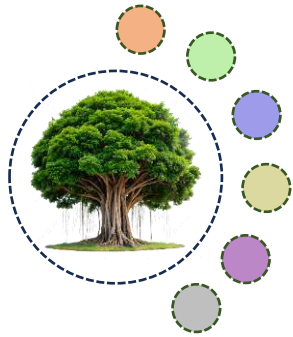


Landscape Plan – Podium Floor



View of landscape around constructed wetlands, 'New Ground'

Landscape Planting Palette



Native

Well adapted to local climate, support local wildlife

Air Purifying

Well adapted to local climate

Dust Capturing

Well adapted to local climate

High Oxygen Producing

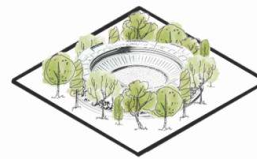
Well adapted to local climate

Drought-Tolerant

Thrive with less water

Resist pests and diseases


Reduce chemical use



These species are strategically placed around playing grounds, to increase oxygen supply for the players.

HIGH OXYGEN PRODUCING SPECIES


- Acacia indica
- Moringa indica
- Terminalia elliptica
- Tectaria grandis
- Anogeissus latifolia
- Shorea robusta
- Magnolia champaca
- Acacia indica
- Moringa indica
- Pongamia pinnata
- Soraca asoca
- Santalum indicum



These species are strategically placed around the periphery of the campus and around roads to absorb dust produced by vehicular activity.

DUST CAPTURING SPECIES

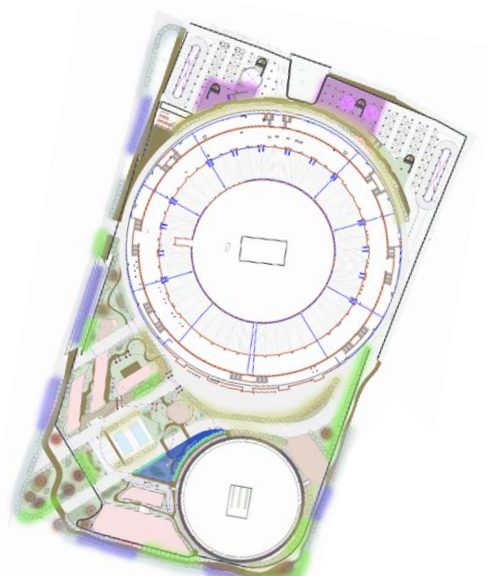
- Artocarpus lacuchaensis
- Terminalia elliptica
- Pongamia pinnata
- Cordia alliodora
- Bauhinia variegata
- Ficus bengalensis
- Ficus religiosa
- Ficus virens




These trees are placed around the periphery, to create a pleasing boundary around the campus, with aesthetic planting of different canopies giving a lush green look


EVERGREEN TREES

- Neolamarckia opacantha
- Acacia indica
- Hibiscus nobilis
- Artocarpus lacuchaensis
- Pongamia pinnata
- Artocarpus lacuchaensis
- Magnolia champaca
- Mimosa pudica






CONCEPTUAL SECTION FROM ENTRANCE




Rain trees act as natural break points at nodes, creating pause points with huge shade providing canopy and its ornamental appearance

RAIN TREE AT NODES

- Sonneratia aspera



PERIPHERY PLANTING CONCEPTUAL SECTION



XERISCAPING - SPECIES

- Cordia alliodora
- Bauhinia variegata
- Artocarpus lacuchaensis
- Sonneratia aspera
- Pongamia pinnata
- Acacia indica

Landscape Material Palette & Design Intent

Heat Reduction

- Reduced paved surface, lowering surface and ambient temperature
- Vegetated surfaces reduce radiant heat and enhance thermal comfort

Water Absorption

- Majority of surface treated with **permeable materials or softscape**
- Promotes **groundwater recharge** and reduces urban flooding risk

Carbon Footprint

- Use of **natural & low-carbon materials** (stone/local aggregates/minimal concrete)
- Increased **plant biomass** improves air quality and carbon sequestration

Biodiversity & Ecological Value

- Native, drought-tolerant planting supports **pollinators, birds and local ecology**
- Improved **microclimate and user comfort** for walking and outdoor engagement



Grass Pavers
Combines greenery with functional load-bearing surfaces; reduces surface heat, supports infiltration



Permeable Asphalt/Porous Concrete
Used in vehicular paths; maintains functionality with water percolation; Promotes groundwater recharge



Ceramic Permeable Bricks
Applied in plazas & walkways; crafted from recycled ceramic or clay; Highly permeable, low embodied carbon, reduces surface temperature



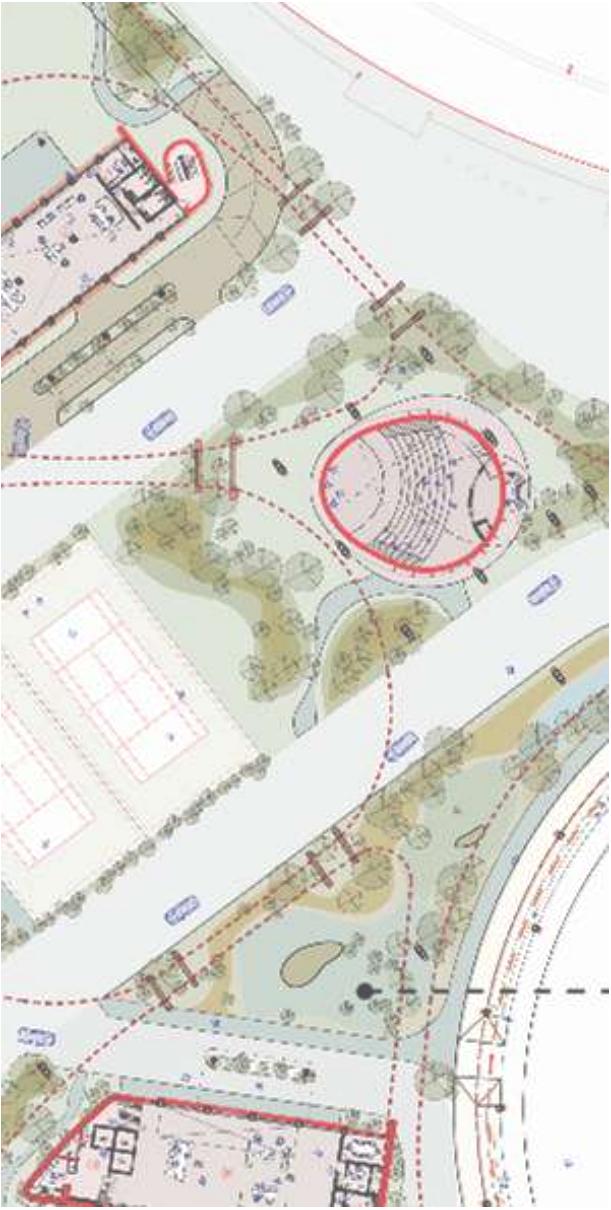
Natural Stone Pavement
Locally sourced & textured, suitable for high-traffic pedestrian areas; Reduces thermal gain, blends with softscape



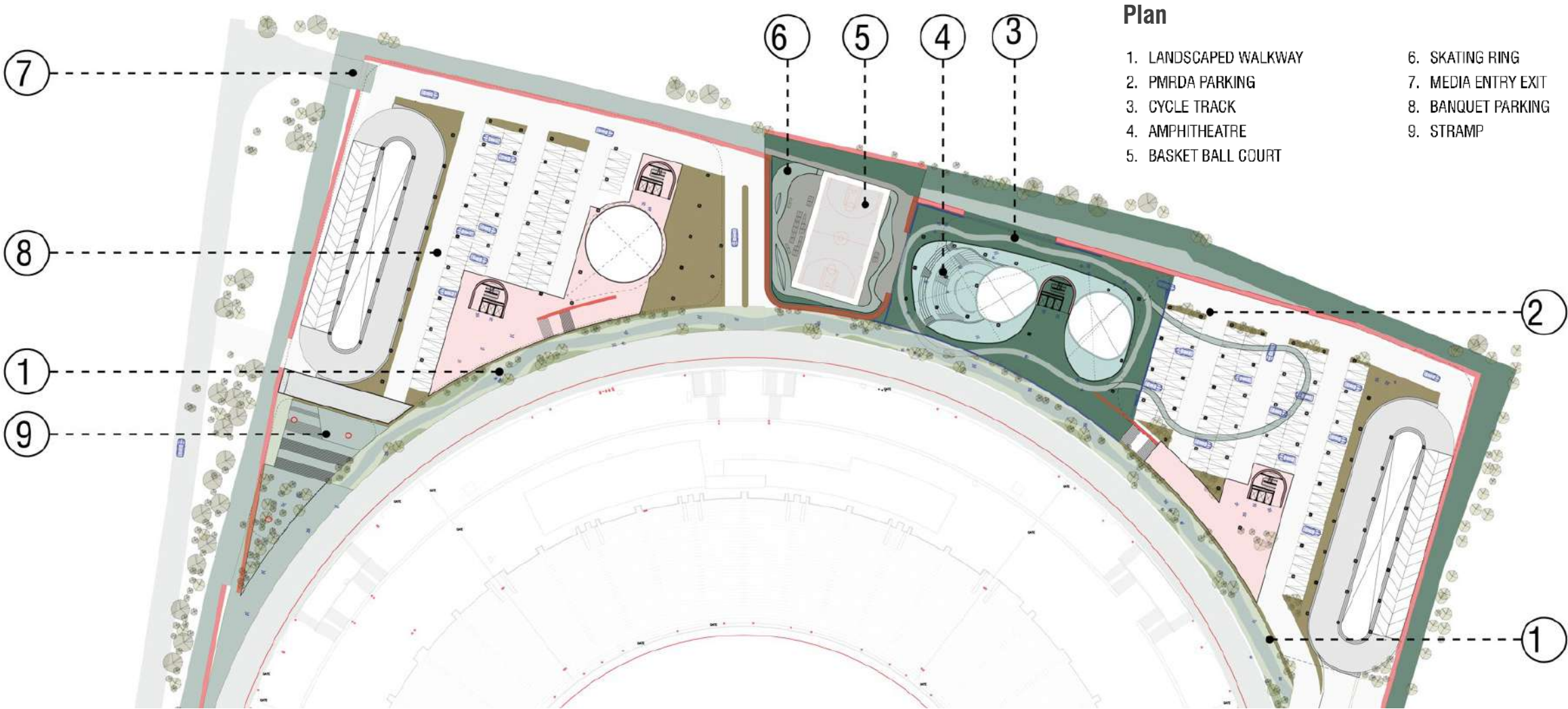
Mounds and Earth Contours
Sculpted landforms integrated with planting; Slows surface runoff, creates cooler zones



Shrub Beds and Ground-cover Plants
Layers of planting in place of hard edges; Supports biodiversity, sequesters carbon, improves air & soil quality



Urban Health Park – Basketball Court & Skating Park





View of basketball court, amphitheater and urban health park

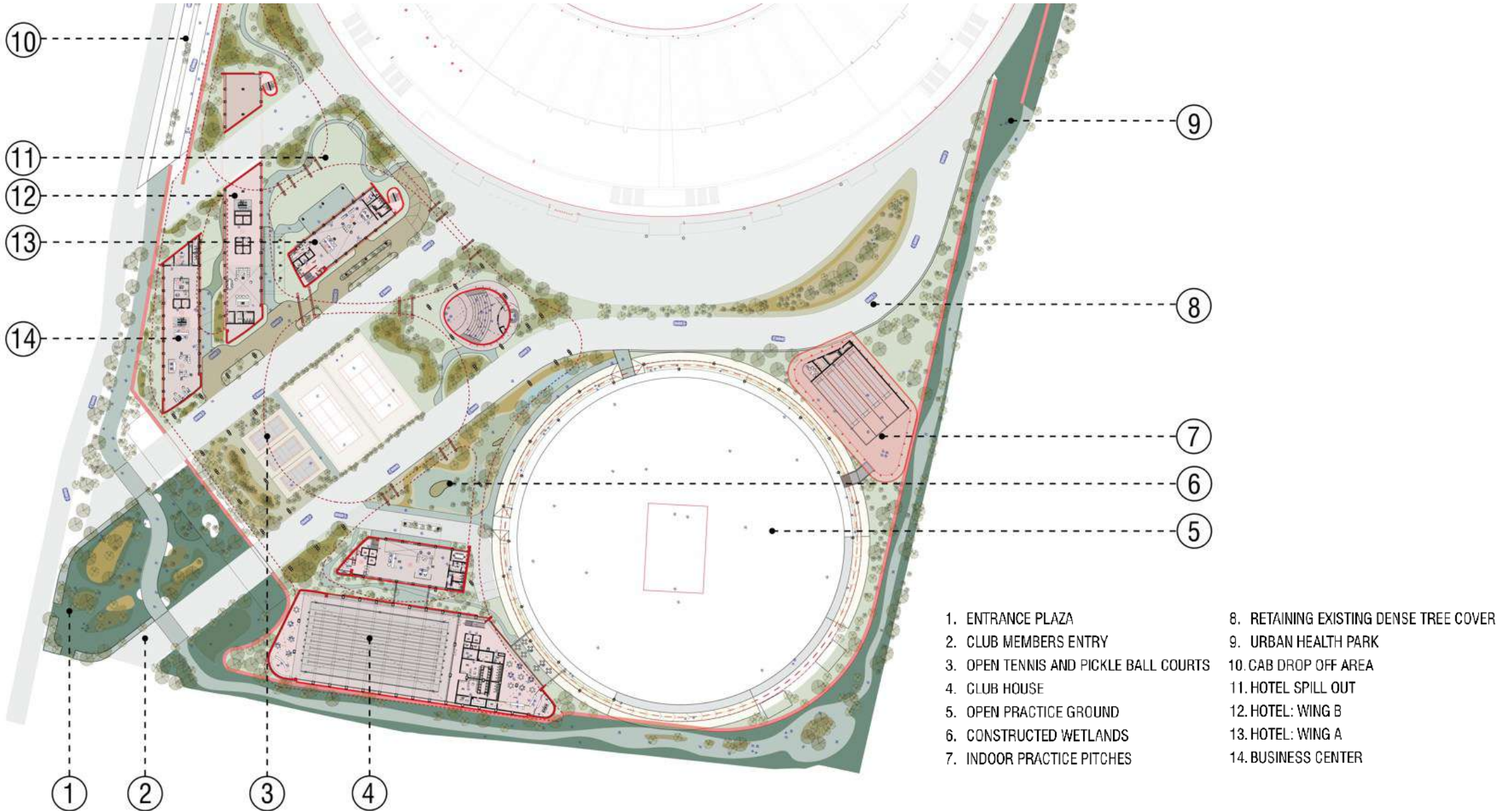


View of Amphitheatre, parking atrium and urban health park

3.

BUILT TYPOLOGIES

Components of the larger whole

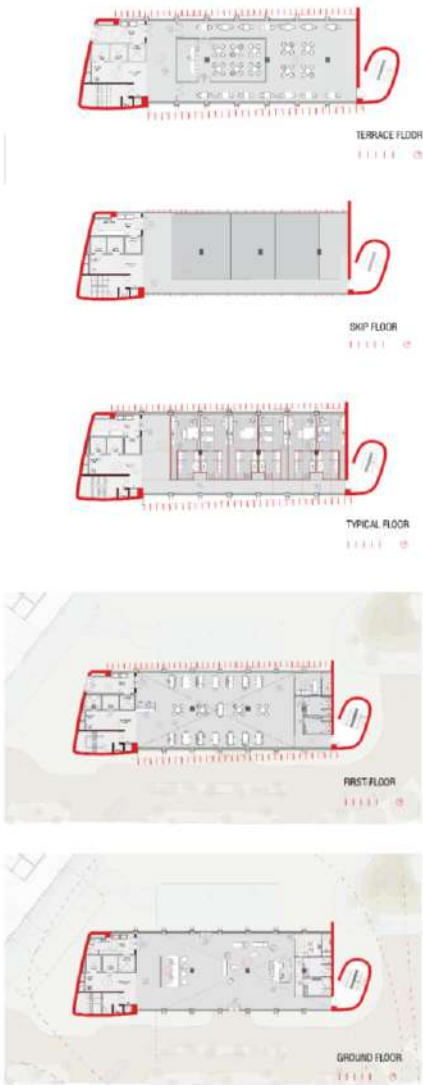
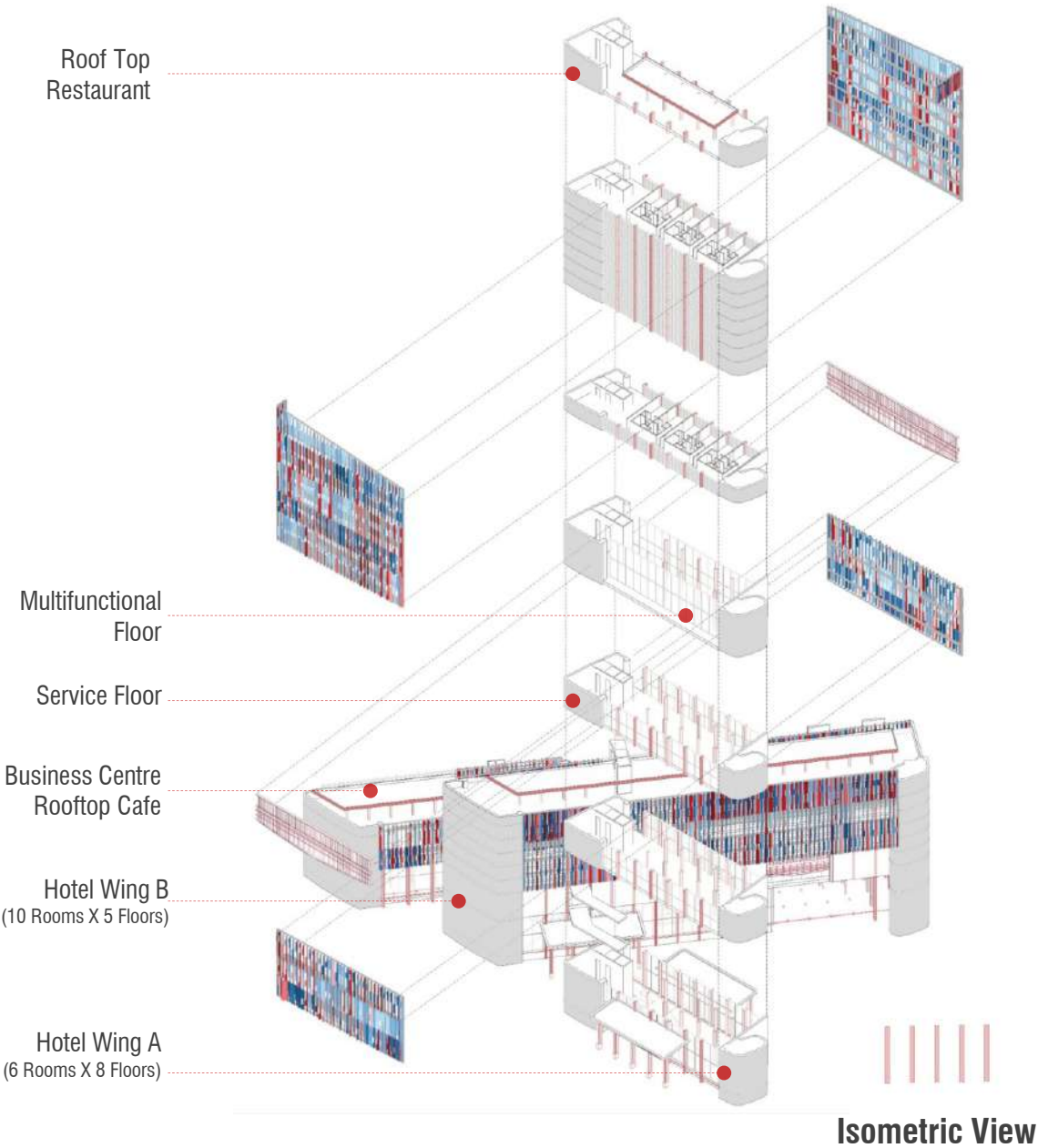


3.1 Hotel + Business Centre



View of hotel from club house access road

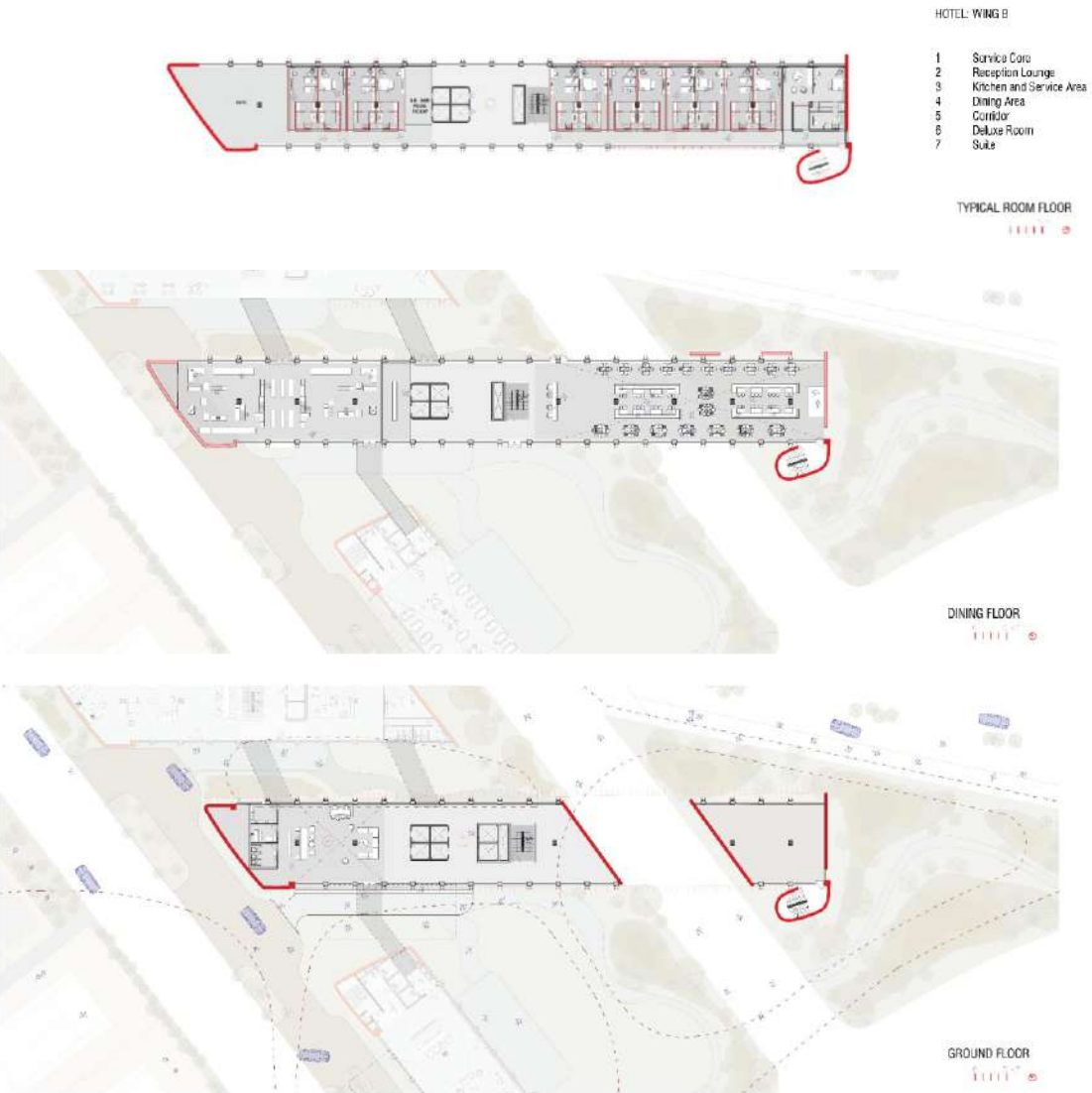
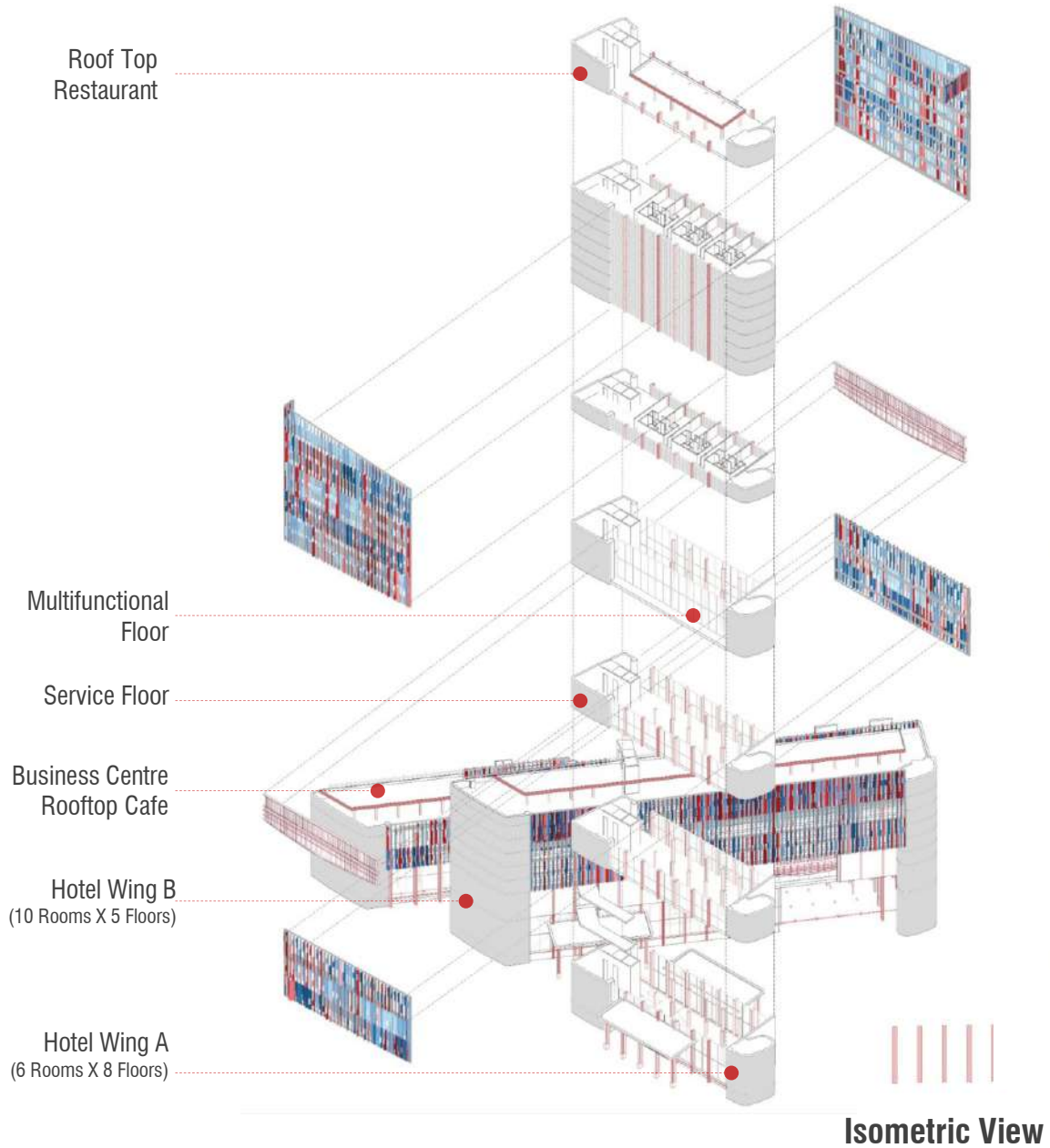
3.1 Hotel + Business Centre



- HOTEL: WING A
- 1 Service Corridor
 - 2 Service Core
 - 3 Corridor
 - 4 Air conditioned Bar
 - 5 Outdoor Bar
 - 6 Guest Lobby
 - 7 Deluxe Room
 - 8 Dining Area
 - 9 Corridor
 - 10 Manager Cabin
 - 11 Reception Lounge
 - 12 Bar Counter
 - 13 Toilet
 - 14 Manager Cabin
 - 15 Multi-purpose Floor

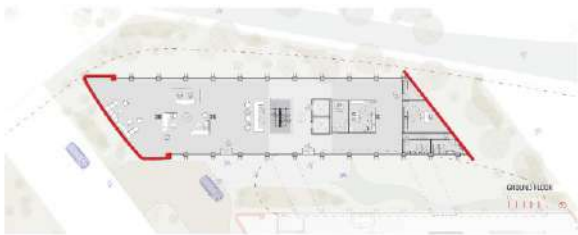
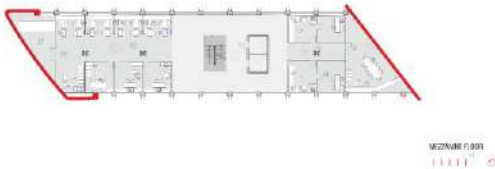
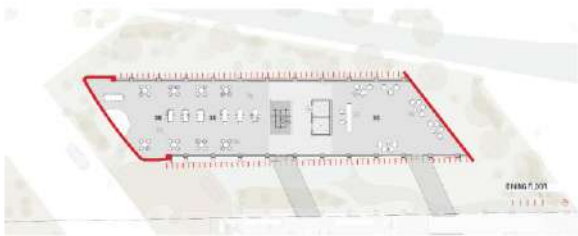
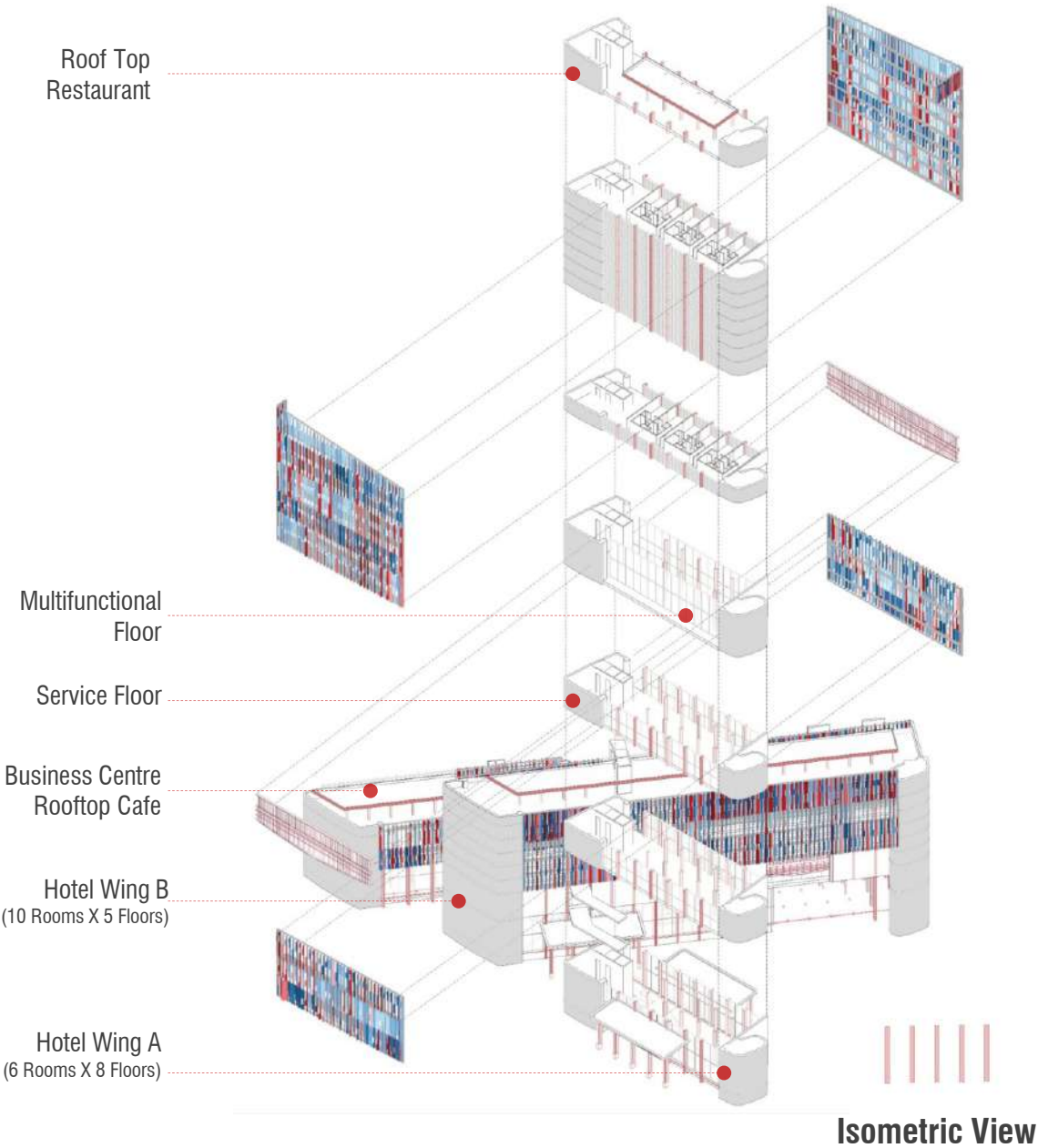
Floor Plans: Hotel Wing A

3.1 Hotel + Business Centre



Floor Plans: Hotel Wing B

3.1 Hotel + Business Centre



Floor Plans: Business Centre

- BUSINESS CENTER
- 1 Service Core
 - 2 Reception
 - 3 Bar Counter
 - 4 Manager Cabin
 - 5 Meeting Room
 - 6 Toilet
 - 7 Admin Area
 - 8 Officers' Cabin
 - 9 Conference Room
 - 10 Dining Area

3.1 Hotel + Business Centre

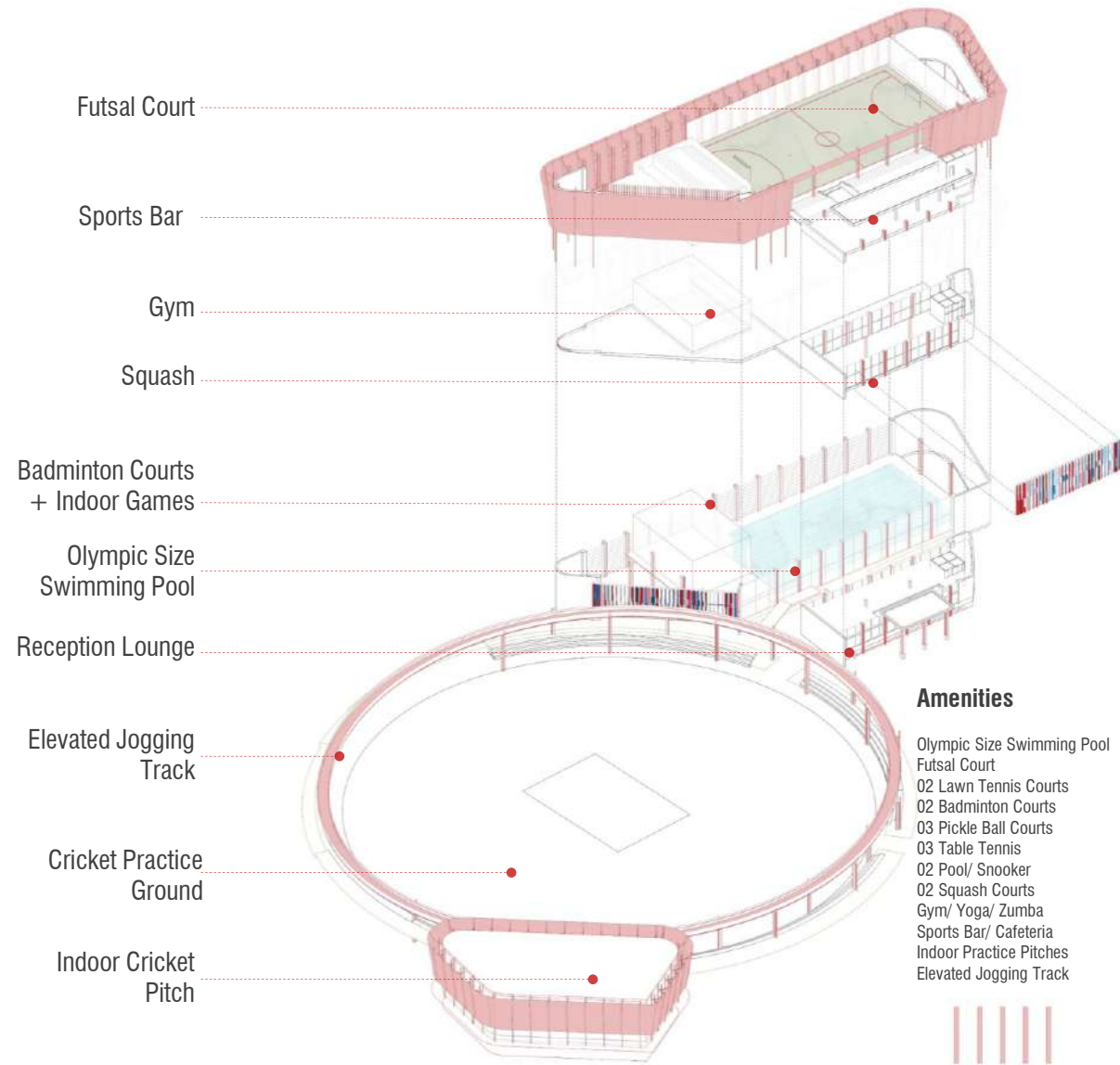


3.2 Club House + Sports Training Centre

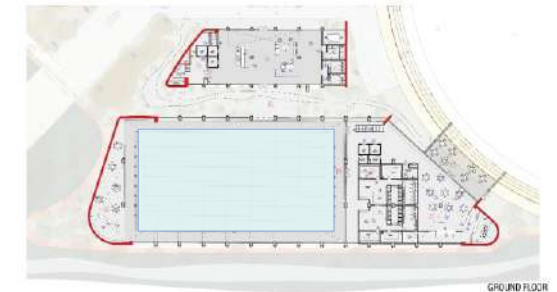
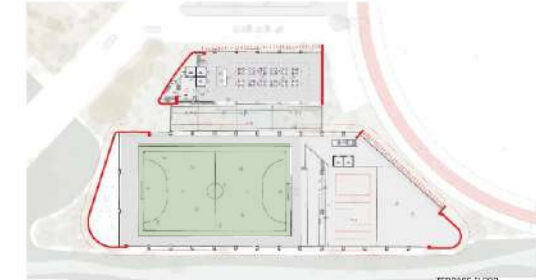


View of constructed wetland, clubhouse entrance and practice pitch on left

3.2 Club House + Sports Training Centre



Isometric View



CLUB HOUSE

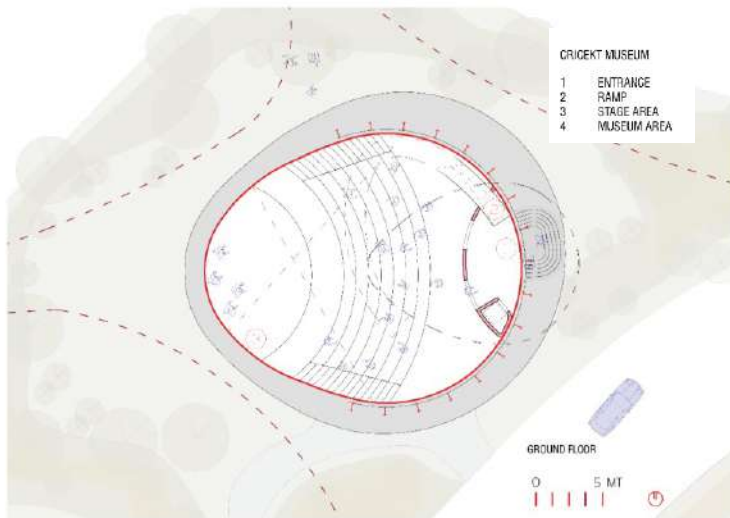
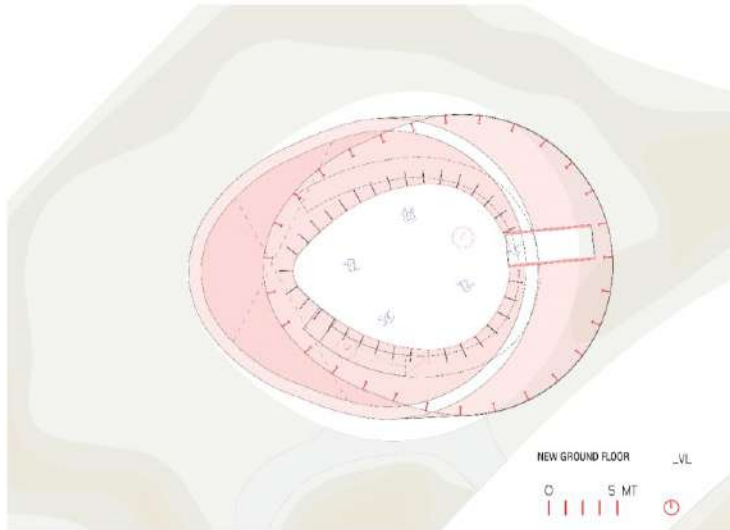
- 1 Sports Bar
- 2 Service Core
- 3 Futsal Court
- 4 Solar Panel Terrace
- 5 Lounge
- 6 Service Core
- 7 Indoor Sports
- 8 Corridor
- 9 Gym / Zumba
- 10 Service Core
- 11 Reception
- 12 Admin Area
- 13 Toilet
- 14 Manager Cabin
- 15 Conference Room
- 16 Badminton Court
- 17 Swimming Pool
- 18 Ancillary Spaces
- 19 Reception & Lounge
- 20 Toilet
- 21 Cafeteria
- 22 Outdoor Sitings

Floor Plans

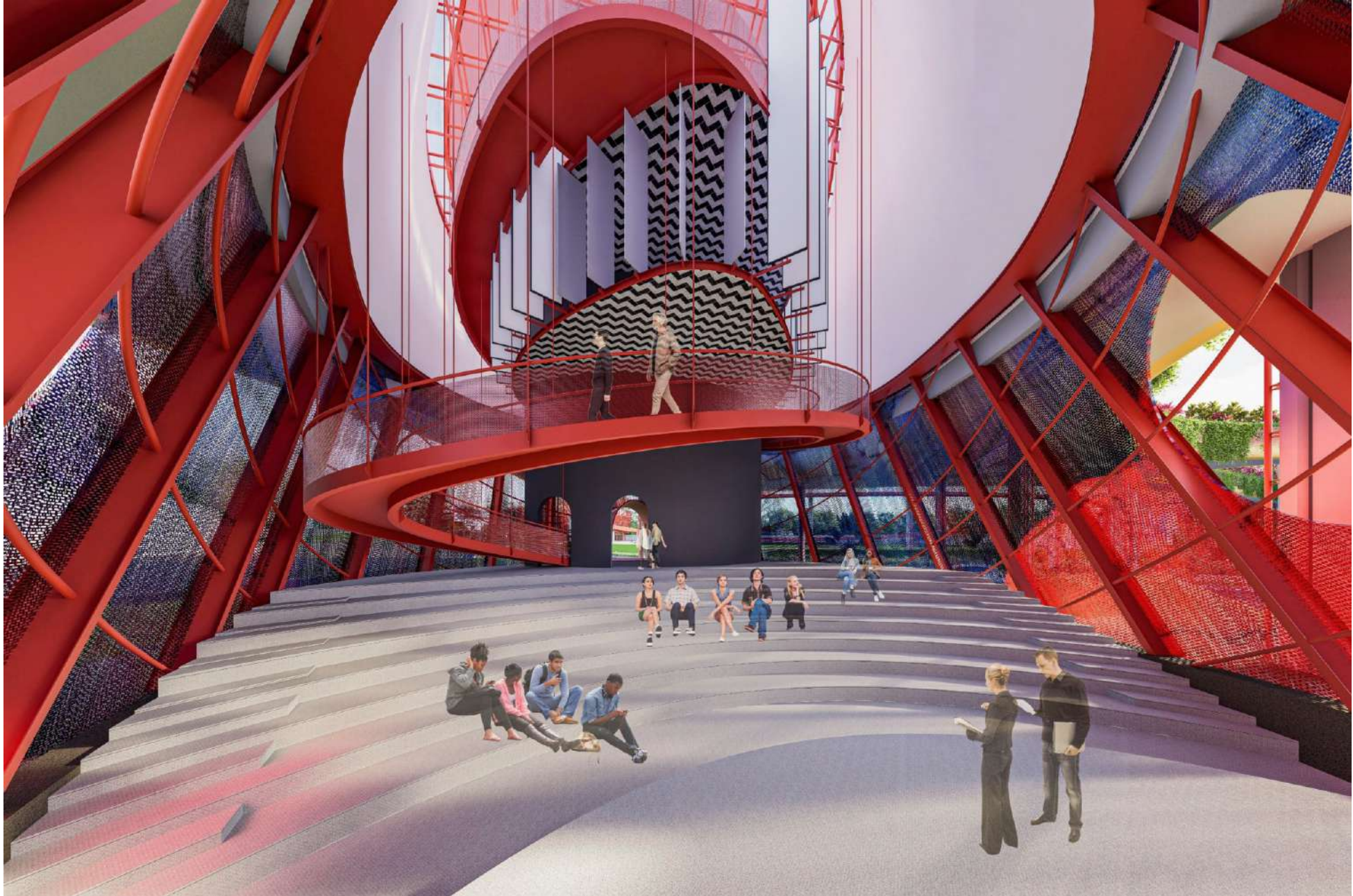


View of practice pitch from indoor practice pitch

3.3 Cricket Museum



View of museum interior

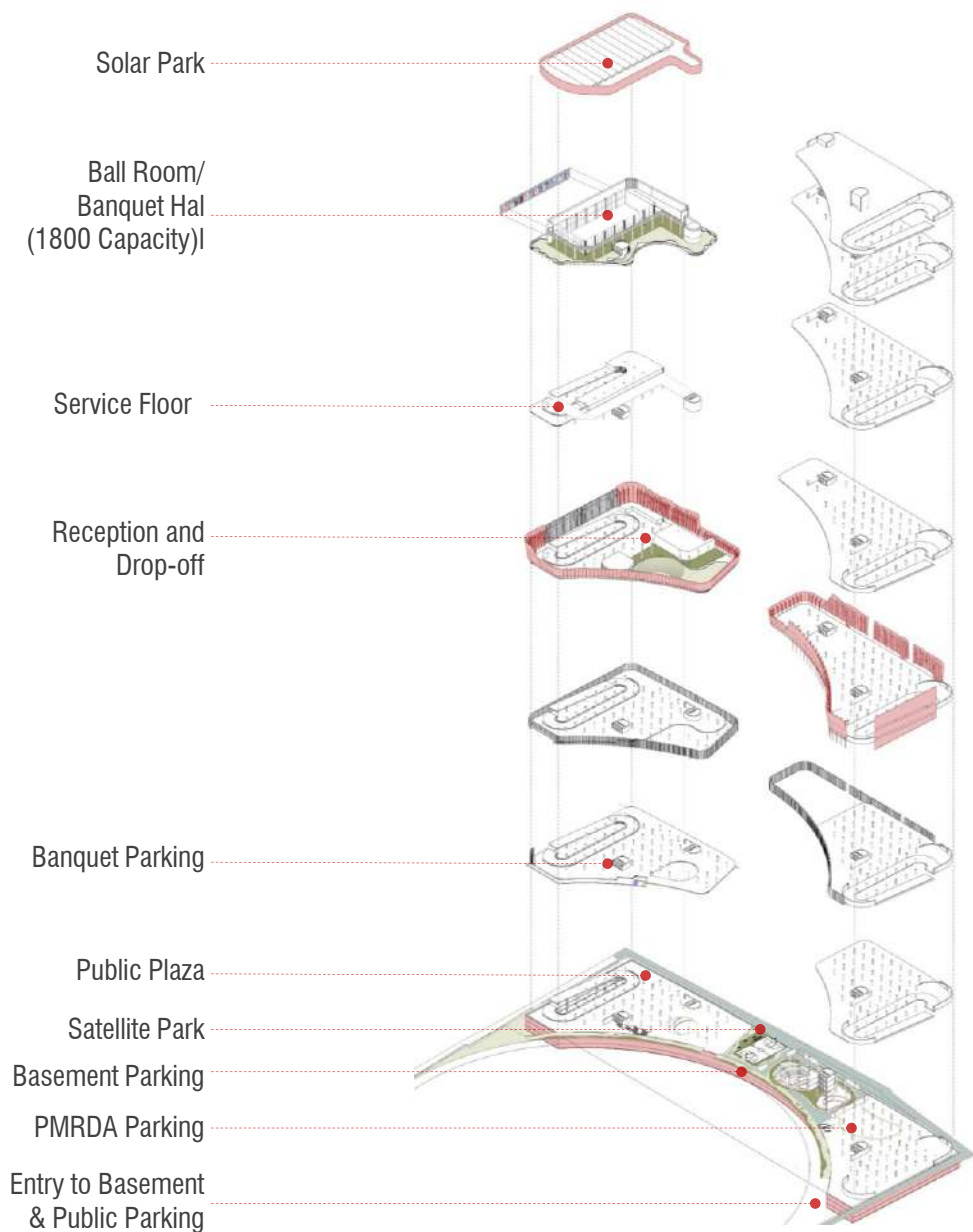


View of amphitheater on ground floor of museum

3.4 Club House Banquet + Public Parking



View of banquet & hotel from hill-side

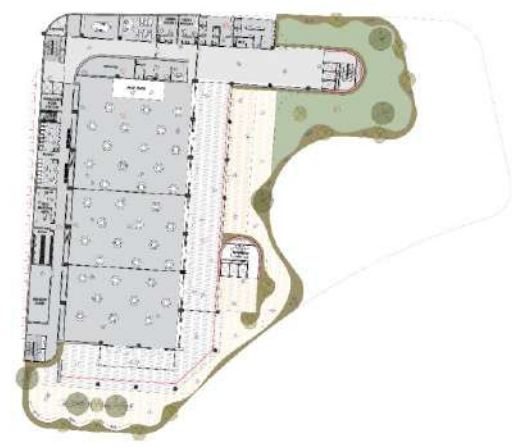


Parking Zoning

- Basement**
600 cars
750 scooters
750 bicycles
- Banquet**
400 cars
500 scooters
500 bicycles
- PMRDA**
400 cars
500 scooters
500 bicycles

Isometric View

3.4 Club House Banquet + Public Parking



BANQUET

- 1 Service Parking
- 2 Docking Area
- 3 Servant Parking
- 4 Drop in Drop off Platform
- 5 Reception
- 6 Multi-purpose Area
- 7 Lawn
- 8 Outdoor Meeting Area
- 9 Lounge
- 10 Banquet Hall
- 11 Service Area
- 12 Kitchen Corridor
- 13 Toilet
- 14 Spill Out Area
- 15 Covered Corridor



RECEPTION FLOOR



View of banquet & reception floor

4.

REPRESENTATION

Drawing the vision

Perspective Section from VIP Access Road





View of practice pitch, club house, cricket museum and hotel from stadium

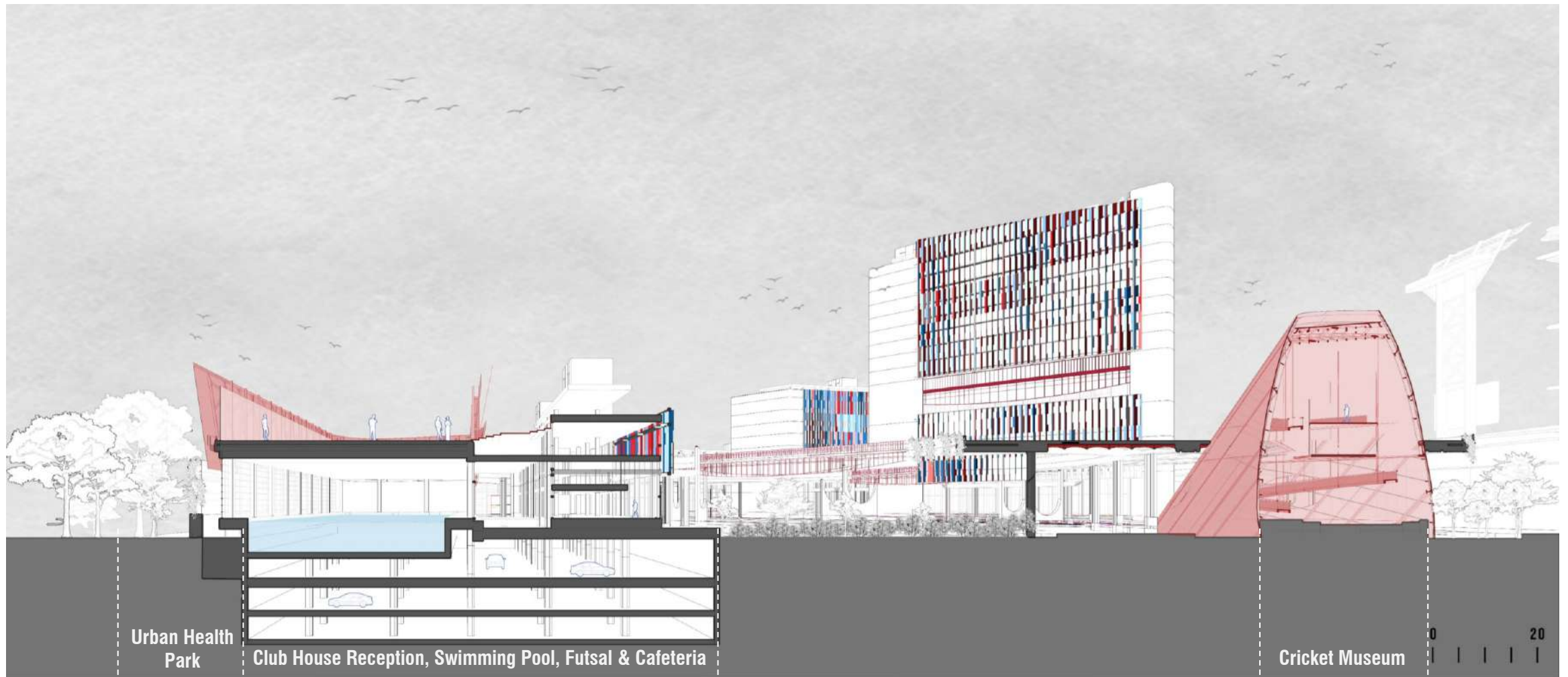
Perspective Section from Hotel Wing



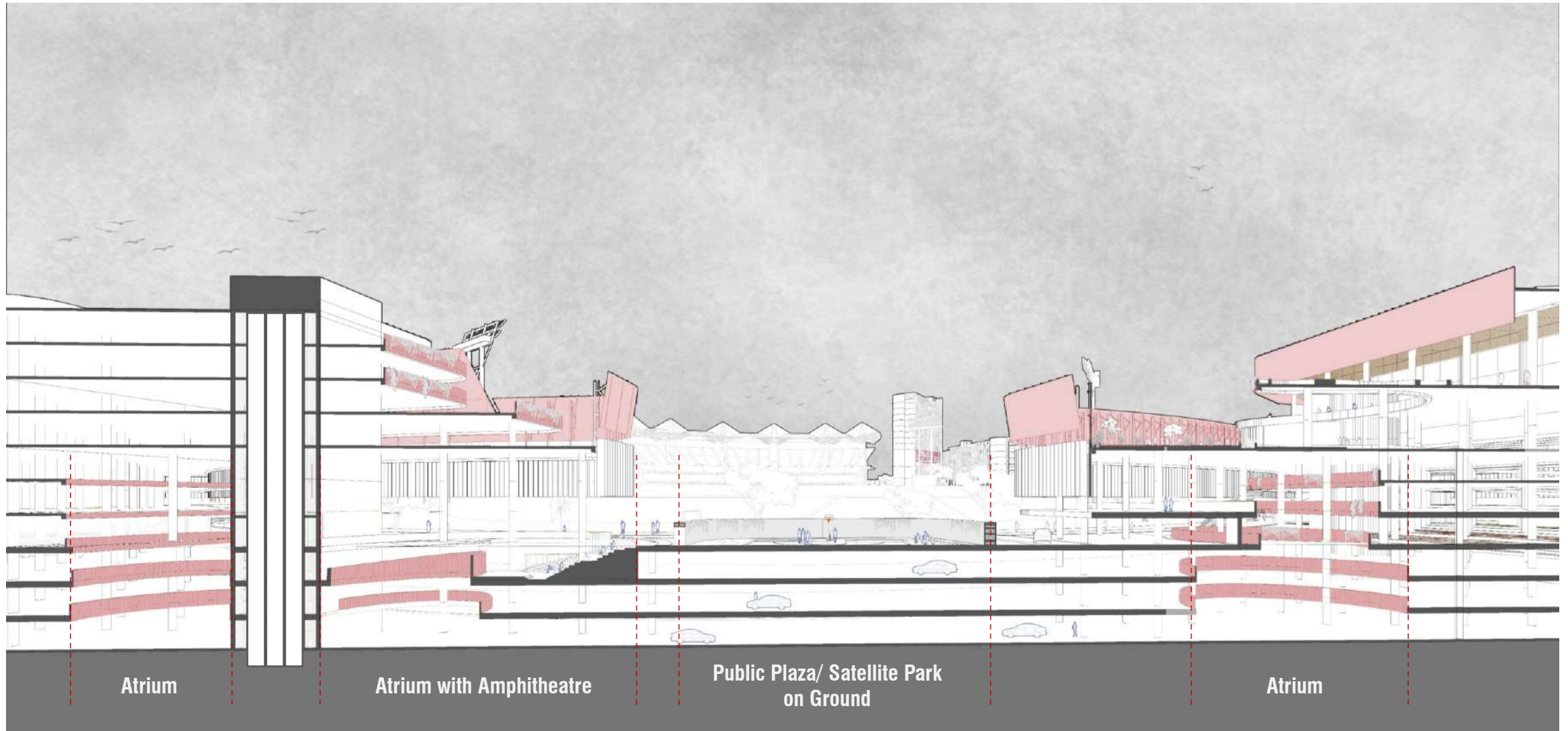


View of pedestrian plaza at gate 3

Perspective Section from Club-house



Perspective Section from PMRDA Parking and Banquet

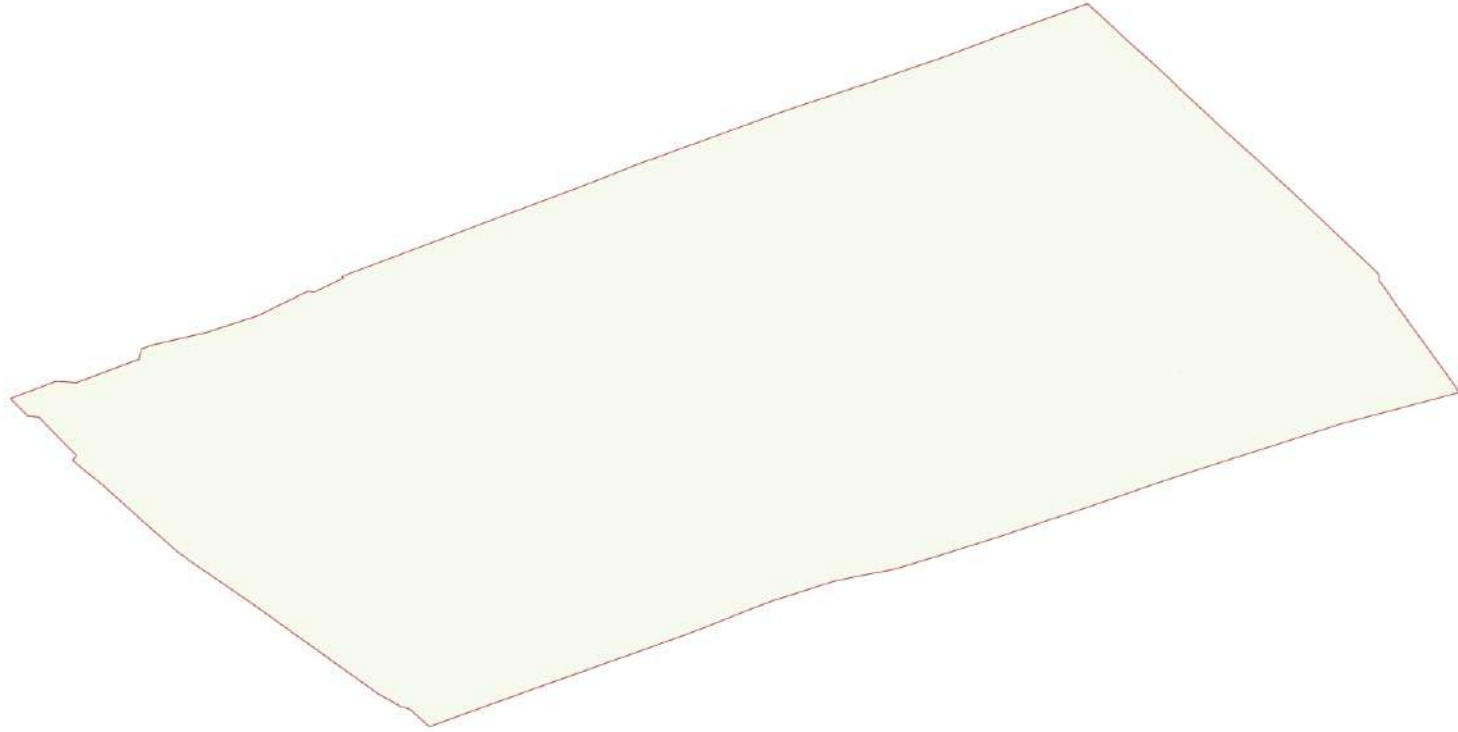




Rare side view of parking



View of pedestrian plaza at main entrance



THANK YOU