

# **SANAWAR- BD HANGOUT AREA- REVISED DESIGN**

**Date- 25.04.2026 (REVISION 2)**

## Proposed layout plan for BD Hangout area- Plan view



1. Pickleball Court -30'X60'
2. Amphitheatre
3. Cricket Practice pitch-87'X15'
4. Multi-sport area 146'X28'-32'
5. Two level seating (facing the Multi-sport area as well as the valley)
6. Peripheral Seating + Planters
- 7,8. Stone seating

## Design strategy

- From a single-use ground to a layered, multi-functional student space.
- Introduces clearly defined zones—multi-sport court, cricket practice area, pickleball court and amphitheatre
- Repurposes an underutilized slab into a dedicated cricket practice pitch
- Integrates seating with the landscape, enabling social interaction and valley-facing sit-outs
- Lightweight, cost-efficient design using durable materials with minimal structural intervention
- Amphitheatre designed as a lightweight spine-structured system, optimizing steel use and construction efficiency



Bird's eye view of proposed layout plan showing various spaces

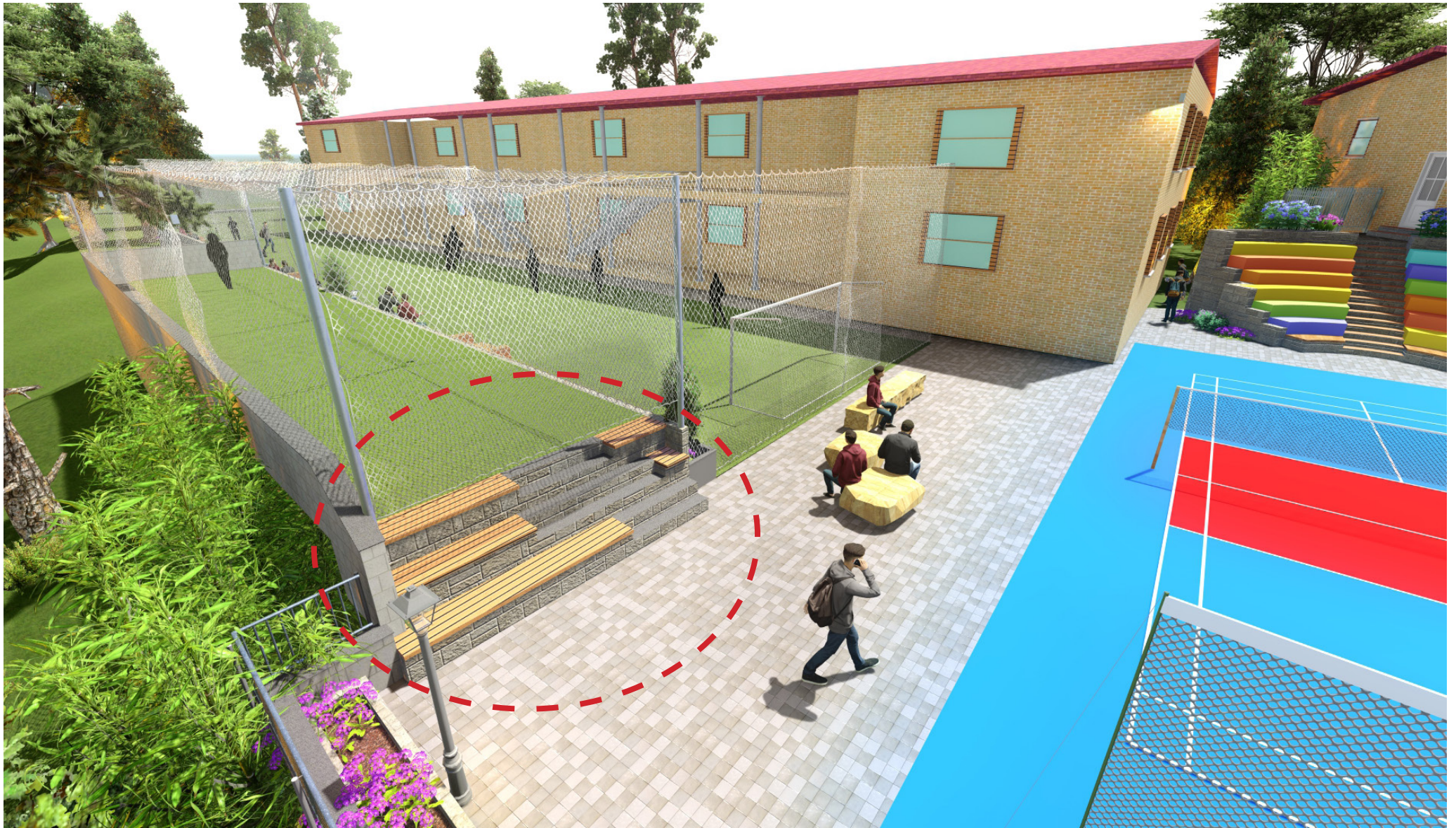
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Bird's eye view 2



3D View showing Multi-level seating integrated with cricket practice zone



3D View showing seating on two levels & planters along the periphery of the Multi-sport area



3D View showing seating on two levels & planters along the periphery of the Multi-sport area to maximise seating & usage of space

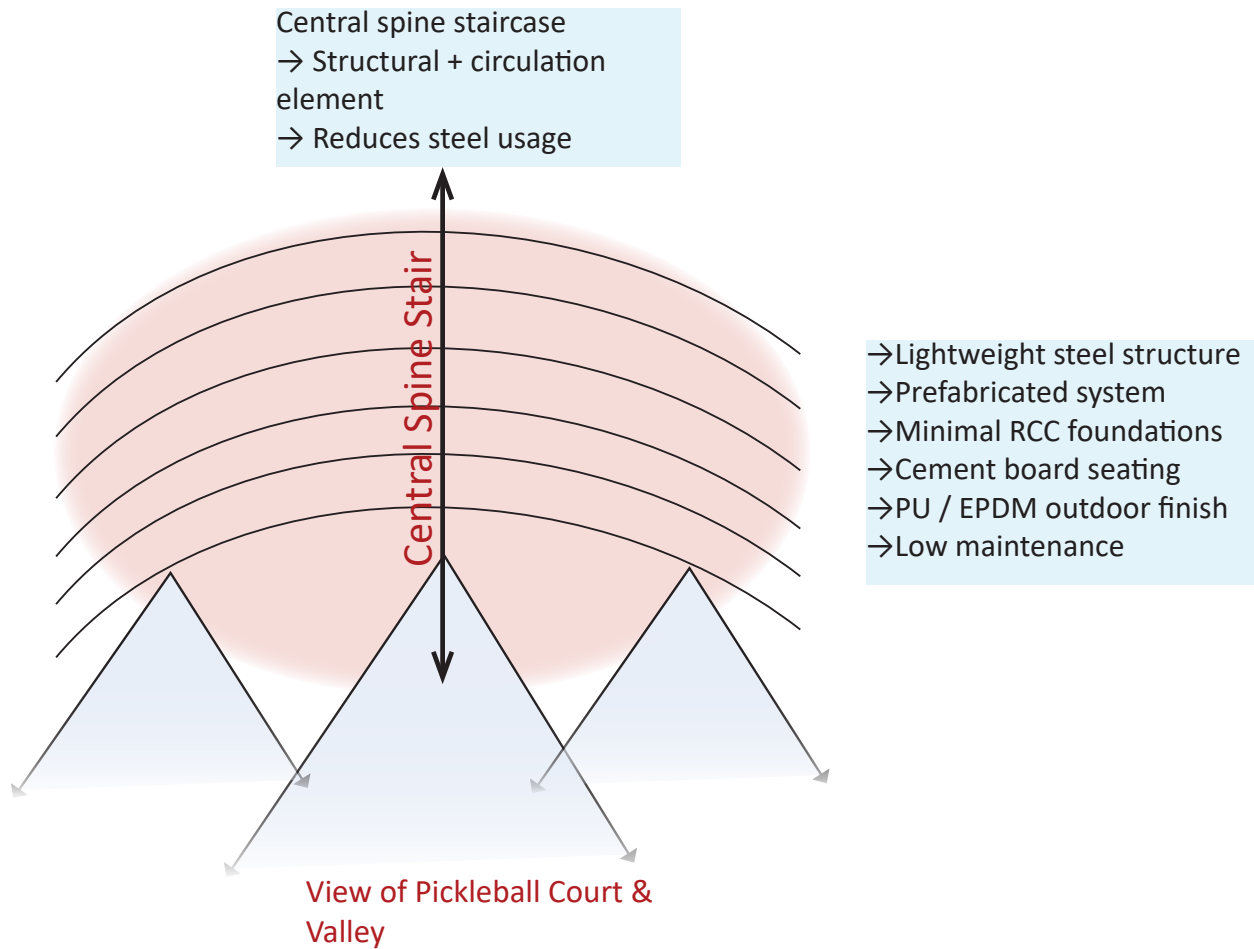


3D View showing the proposed amphitheater seating overlooking the pickleball court and the valley



## Amphitheatre Design Strategy

Lightweight, MS spine-structured seating system with viewing orientation towards the pickleball court and the valley



## Amphitheatre Design Summary



The amphitheatre is conceived as a lightweight, modular seating system integrated with the natural site levels, creating a flexible social and viewing space.

A central staircase acts as the primary structural spine, reducing the number of supporting members and overall steel consumption while ensuring structural stability.

Stepped seating is formed using radial steel frames with cement board decking, finished in a durable PU/EPDM coating for long-term outdoor performance and low maintenance.

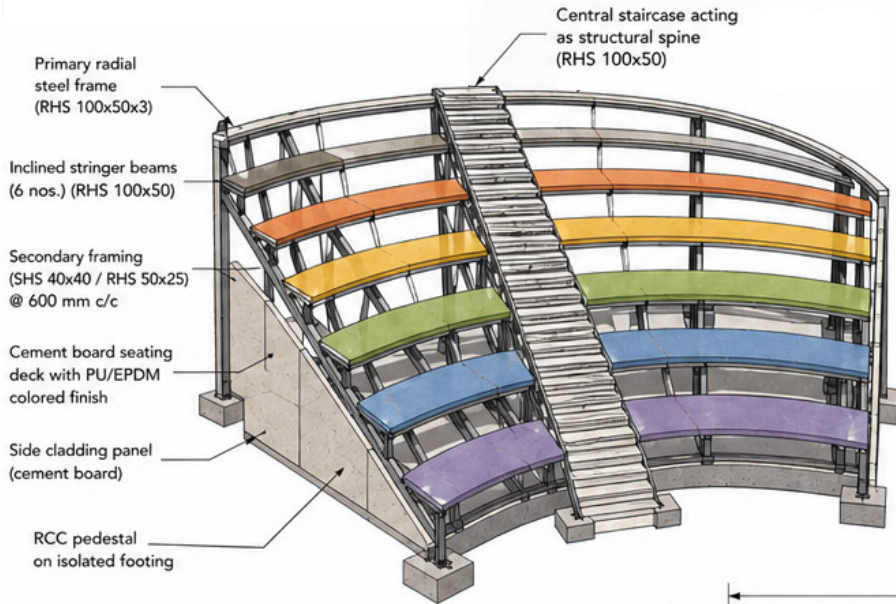
Overlooking both the pickleball court and the valley for active and passive use.

The structure is supported on minimal RCC footings, enabling faster construction, reduced site intervention, and improved cost efficiency.

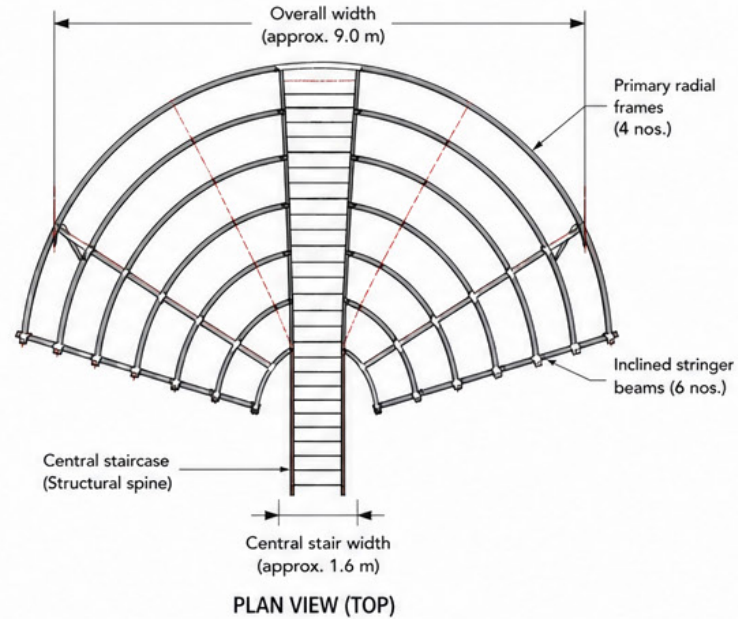
### Key Design Advantages

- Optimized structural system with reduced steel usage
- Fast, prefabricated construction
- Minimal civil work and foundation footprint
- Durable, weather-resistant materials
- Seamless integration with landscape

# CONCEPTUAL STRUCTURAL DIAGRAM OF AMPHITHEATRE. DETAILS & STRUCTURAL DESIGN TO FOLLOW IN DETAILED DRAWINGS STAGE



3D ISOMETRIC VIEW



PLAN VIEW (TOP)

## STRUCTURAL SYSTEM HIGHLIGHTS

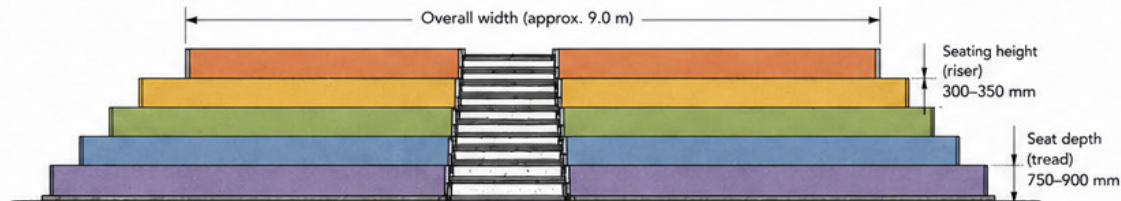
- Curved modular steel structure with radial frames
- Central staircase acts as the primary structural spine
- Inclined stringer beams support tiered seating
- Minimal foundations at radial frame locations
- Cement board seating deck with PU/EPDM finish

## DESIGN DATA

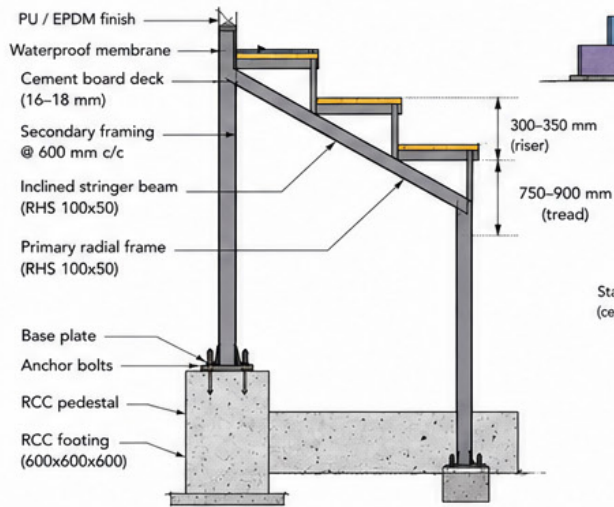
- Live Load: 4 kN/m<sup>2</sup>
- Seating Height (Riser): 300–350 mm
- Seat Depth (Tread): 750–900 mm
- Frame Spacing (Radial): 1.8 – 2.2 m c/c
- Total Radial Frames: 4 Nos.
- Inclined Stringer Beams: 6 Nos.
- Estimated Steel Weight: 1.3 – 1.5 Tons

## MATERIALS

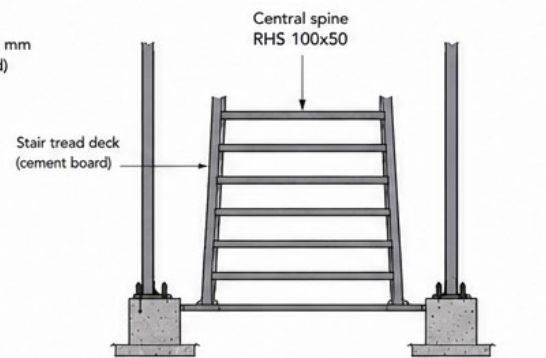
- Primary Steel: RHS 100x50x3 mm
- Secondary Steel: SHS 40x40 mm / RHS 50x25 mm
- Decking: 16–18 mm Cement Board
- Finish: PU / EPDM Colored
- Foundation: RCC M25



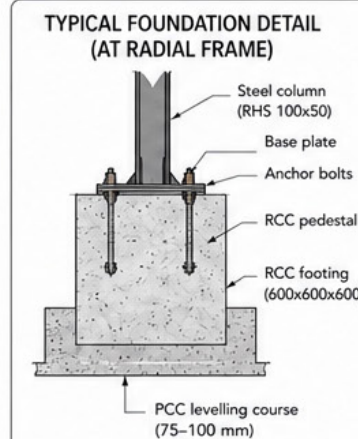
FRONT ELEVATION



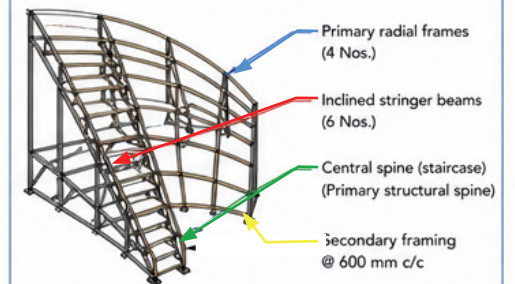
TYPICAL CROSS SECTION (THROUGH SEATING)



SECTION THROUGH CENTRAL STAIRCASE (SPINE)



## STRUCTURAL FRAME LOGIC



Bird's eye view of pickleball court and amphitheatre



View of the pickleball court and the valley from the amphitheatre

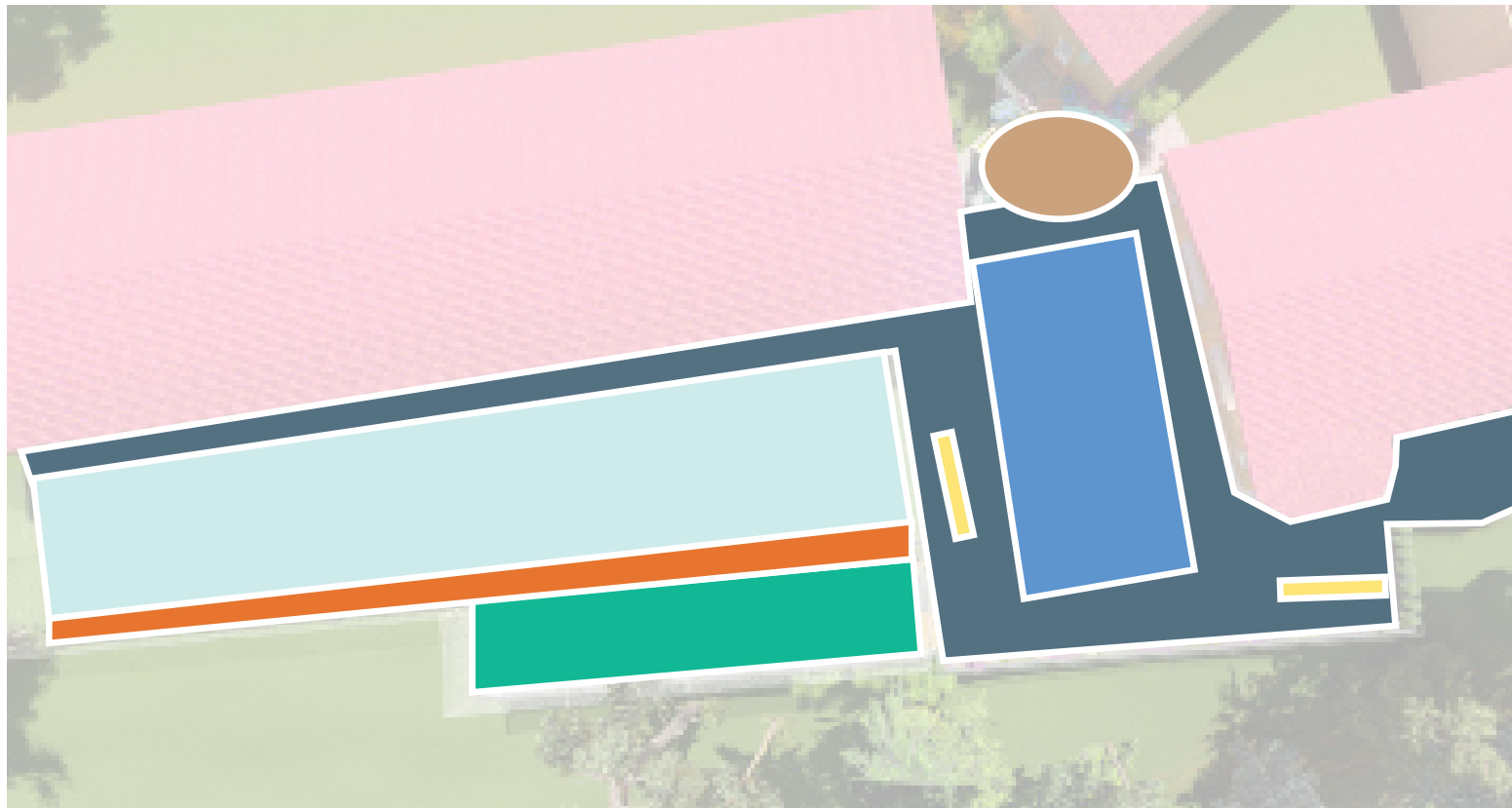








3D View showing the rough stone seating on the side of the pickleball court



## Material palette & Strategy

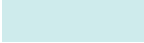







Material selection prioritizes durability, low maintenance and suitability for high-traffic outdoor use while maintaining a cohesive visual language.



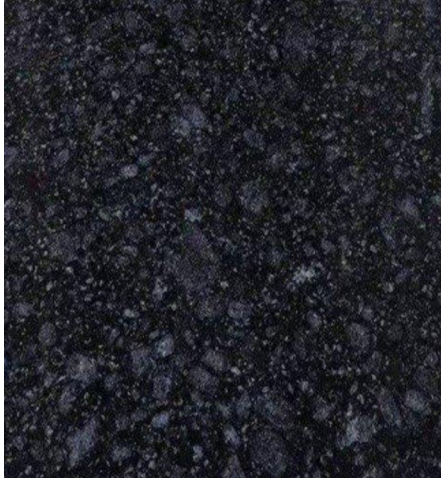
AstroTurf	
Cricket Turf	
Cobbles	
ThermoPine	
Amphitheatre	
Pickleball Court	
Stone seating	
Granite	

# MATERIAL PALETTE & SITE STRATEGY

Durable, low-maintenance materials integrated with site context

-  **Multi-sport Area – AstroTurf**  
Durable, low-maintenance synthetic surface suitable for multi-sport use with consistent playability.
-  **Cricket practice area-Synthetic Turf**  
Specialized turf surface designed for cricket practice, ensuring performance and longevity.
-  **Paving – Cobble Flooring**  
Robust, permeable paving solution enhancing durability while maintaining a natural outdoor character.
-  **Seating – ThermoPine Wood**  
Treated exterior-grade timber providing warmth, comfort and weather resistance for seating areas.
-  **Amphitheatre – Steel + Cement Board System**  
Lightweight steel framework with cement board decking and PU/EPDM finish for durability and reduced structural load.
-  **Pickleball Court – Acrylic Sports Finish**  
High-performance acrylic surface system designed for grip, durability and consistent ball response.
-  **Stone Seating**  
Locally inspired stone seating elements providing permanence, low maintenance and visual grounding.
-  **Granite Accents**  
Hard-wearing stone used at key edges and transitions to enhance durability and definition.
- Planters**  
Soft landscape elements enhancing spatial quality and user comfort

## MATERIAL REFERENCES



Granite



AstroTurf



Stone seating



Cobble



Thermopine



Pickleball court– Acrylic Sports Finish