

KING'S COLLEGE, MUSCAT, SULTANATE OF OMAN

VERITAS 



DECEMBER 2017



King's College MUSCAT



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ARCHITECTURAL REPORT

VOLUME 1

We are delighted and excited by the prospect of opening King’s College Muscat in September 2019. We believe that King’s College is a perfect fit for Muscat and, as Oman’s first true branded school, the school will greatly contribute to continuing the improvement in Oman’s education and school landscape.

This document is an initial design brief and set of requirements for the school and is intended to provide an overview of the project. It provides a detailed analysis of the accommodation that we require to operate the school together with the phasing strategy for its development.

It firstly presents an overview of King’s College in Taunton in the UK, as well as providing information and images of our first King’s College outside of the UK, the hugely successful King’s College Doha which opened in September 2016 and will already have 400 children enrolled by September 2017. We then provide a summary of the competitor school landscape in Muscat showing the locations, site arrangements, facilities and fee scales that are provided by the schools that we will be competing against. This is an important part of the study as we are determined to bring a school of the very highest quality to the Muscat market, yet at a relatively affordable fee level.

In section three, we show an excellent reference project; Cranleigh School in Abu Dhabi that opened in 2014. It is already considered to be one of the best international schools in the world, has a range of facilities that offer a first class education environment, and has a campus planning strategy that we believe offers a best practice approach to the design of a high quality British curriculum independent school in a middle eastern environment. The designer of Cranleigh school did not attempt to simply re-create the British school but sought to harness the essence of Cranleigh UK and blend it with its Arabian setting and environment. Our desire is to establish this same approach for King’s College Muscat.

Finally, we go onto the site, analysing and searching for the genius loci of the place. The natural setting guide us to the overall masterplan design, defining the character and placements of the components. This resulted in the school being visibly connected at the rising sun in a place of importance, overlooking and in close proximity to the centre of the masterplan.

The school, its facilities design and landscape approach set out to capture the essence of King’s College philosophy based on the local identity while engaging the surrounding nature. Expressed in a contemporary design approach, the school; set in a place of staggering beauty with minimal intrusion to nature, provide the play with contrast light and shadow in a dialogue with nature.

In this we hope to have provided a stunning, modern proposal that both capture the essence of King’s College UK and is observant and complimentary to the rich Omani culture and architecture.

EXECUTIVE SUMMARY

01

PARTNERS SCHOOLS / KING’S COLLEGE TAUNTON

King’s College is a long established co-educational school in England with a history that can be traced back as far as 1522. Its current campus was established in 1880 to educate 750 boarding and day pupils from age 2-18.

The emphasis at King’s College is on excellence across all areas. Rigorous first-class academic teaching characterises the School which performs extremely well in the traditional disciplines of mathematics, the sciences, languages and humanities. Departments see their mission as being much more than preparing for exams; they strive to instill a genuine love of each subject, a desire to go beyond the curriculum and embed habits of scholarship that will last for a lifetime.

The King’s College philosophy is that education is about the whole person; nurturing the intellectual, moral, spiritual and physical being. King’s is one of the top sports schools in the West of England and has excellent fine art and drama departments. It regularly produces award-winning musical ensembles and choirs.

King’s College maintains a strong international perspective with over twenty different nationalities boarding at the School on a full time basis. Furthermore, the School has established its overseas schools in Doha and Delhi, both of which opened in September 2016. A great number of exchange programmes exist between King’s College and schools in other countries and the school has an extensive programme of sporting, academic, adventurous and cultural tours to all parts of the world.

Curriculum Overview

The King’s College UK curriculum is rooted in the framework of the National Curriculum for England and leads students towards GCSE and Advanced Level examinations in the senior school. Standards in class work are high and young people perform strongly in external exams. 96% of Sixth Form Students attend the university of their choice and the remainder start a career path in their chosen profession.

KING’S COLLEGE / GALLERY



PARTNERS SCHOOLS / KING’S COLLEGE TAUNTON

A student’s educational experience is engaging and profound as all teaching staff are well-qualified, personalise the curriculum and meet regularly to consider an individual learner’s needs so as to support them sensitively and effectively.

Accreditation
Accreditation and independent quality control are seen as a vital part of the School’s governance process. Benchmarking against peers, sharing best practice and maintaining the highest of standards are a key element of the King’s ethos.
Both the Independent Association of Prep Schools (IAPS) and the Independent Schools Inspectorate (ISI) accredit King’s College UK. IAPS provide both UK and international accreditation and will continue the inspection process of the UK School and its sister schools in Qatar.

Leadership and Results
Headmaster Richard Biggs is a former Oxford Rhodes Scholar and current ISI inspector who demands rigorous performance from his staff. Their results are consistent and focus on ensuring children graduate to the university of their choice.

King’s GCSE A* results are three times better than the UK average and almost double the national average for A*s at A-Level.

Independent Schools Inspectorate (ISI) - UK
ISI is the Government approved inspectorate responsible for the inspection of independent schools.

In 2009, the UK Independent Schools Inspectorate reported that:

- King’s College meets its aims and aspirations, provides a high quality education for its pupils including EYFS, and has many outstanding features.
- Governance of the school is outstanding*.
- The school prepares pupils well for the next stage of their education through an excellent educational experience where a good proportion of the teaching is outstanding.1

*. Please note that in 2009 the highest descriptor/judgment was ‘Outstanding’.
**Please note that in 2014 the highest achievable descriptor/judgment was changed from ‘Outstanding’ to ‘Excellent’.

- The provision for the welfare, health and safety for pupils is outstanding and the school has developed outstanding links with parents and the community.
- Relationships between staff and pupils and amongst pupils are outstanding, with a high degree of mutual respect that promotes exemplary behaviour in the pupils, who are polite and courteous. They develop self-confidence, a sense of responsibility for themselves and others, and values and beliefs which will support them well as they move into their senior schools.
- The school community is underpinned by strong family values, which contribute to the outstanding quality of pastoral care, and outstanding spiritual, moral, social and cultural development of the pupils.
- The School offers an outstanding educational experience for its pupils, which is consistent with its aims and philosophy of providing a wealth of educational experience in which the pupils thrive and are happy, confident and considerate to others.

In 2014, the UK Independent Schools Inspectorate reported that:

- The quality of pupils’ achievements and learning is excellent**. The curricular achievements of the pupils are excellent and their extra-curricular achievements are exceptional.
- The spiritual, moral, social and cultural development of the pupils is excellent. Children develop as strong, self-aware individuals.
- The contribution of arrangements for pastoral care is excellent and relationships are outstanding.
- The quality of boarding is excellent.
- The links with parents, carers and guardians are excellent.
- The Early Years provision is excellent.

PARTNER SCHOOLS / KING’S COLLEGE DOHA

- A full brand partnership with King’s College U.K. was established in 2015 to develop King’s first school overseas - King’s College Doha.
- The King’s College Doha operating company is a joint venture with King’s College UK and EduReach Education.
- King’s College Doha was launched in February 2016 and was opened successfully seven months later in September 2016 with over 200 children. The operating company provided the full spectrum of pre-operation services including design, project management, teacher recruitment and marketing and admissions and are now responsible for the on-going operation of King’s.
- By June 2017, 230 children were enrolled.
- The School is FS1-Y6 British curriculum primary school, designed to be the best equipped in Doha, offering outstanding academic, co-curricular and pastoral programmes.
- Phase Two works including a new 25m swimming pool, have now commenced to accommodate the 400 pupils enrolled for September 2017. The third and final phase of work will be completed by September 2018 taking the school to its full capacity of 640 children.



PROJECT TIMELINE

5th Oct 2015
KCD Partnership Agreement Signed

23rd Feb 2016
KCD launched at British Embassy Doha

1st April 2016
Construction Starts

18th Sept 2016
KCD Opens on programme with 200 enrolments



“We could not be happier with our choice of Kings College for our 4 year old son. Unlike many schools in Doha, Kings College truly brings the experience and excellence of its English counterpart to Qatar and the English school is integral to the operations of its Doha entity. The school combines excellence of teaching with a real passion for education, whilst ensuring that the children continue to take pleasure and enjoyment from their school day. The international nature of the students adds to a truly well rounded and world class school.”

Joanna Addison

parent

KING’S COLLEGE MUSCAT / PROJECT PARAMETERS

The following section provides a detailed brief for King’s College Muscat. It is conceived that the school will be developed in three phases.

Phase One would deliver 75% of the primary school and is targeted for opening in September 2019. In this first phase we would also require the main sports hall and outdoor swimming pool to be completed, together with the primary outdoor sports pitches.

Phase Two, scheduled for September 2021, would see the delivery of the remaining primary school accommodation together with the first phase of the senior school; namely the science laboratories and the first cluster of general teaching classrooms as well as the main entrance and administration areas. The science labs will house the senior specialist rooms for two years before the third phase is completed. We also require the senior sports pitches to be delivered as part of this phase.

Phase Three, due to be opened in 2023 will see the completion of the senior school and the entire campus taking the overall capacity of the school to 1872.



AT A GLANCE / KEY DATA

2019 / 8141m² / 552
PHASE 1 COMPLETION / GFA / CAPACITY

2021/ 5253m² / 1104
PHASE 2 COMPLETION / GFA / CAPACITY

2023 / 7858m² / 1872
PHASE 3 COMPLETION / GFA / CAPACITY

21,253m²
TARGET TOTAL GFA

50,000m²
TARGET SITE DEVELOPABLE AREA

FS1 TO Y13
YEAR GROUPS

ENHANCED BRITISH CURRICULUM
CURRICULUM

DIAMOND STRUCTURE:

FS1 - Y6: CO-EDUCATIONAL Y7 - Y11:

SPLIT CLASSES

Y12 & Y13: CO-EDUCATIONAL

MUSCAT
COMPETITOR
SCHOOLS

02





BRITISH SCHOOL OF MUSCAT

Capacity:	1165*	FACILITIES:
Site Size:	37,000m²	2 New Sports Halls (2017)
Fee Range:	(2017-18)	2 Multi-Purpose Halls Dance Studio Auditorium (2018)
FS1:	OMR3620	Dining Hall (2018)
FS2:	OMR4400	10 Science Labs
KS1:	OMR4400	Art, DT, Music, Media & ICT Labs Artificial Soccer Pitch with 600 seats 2no. 25m Pools+ learner pool
KS2:	OMR4980	
KS3:	OMR6630	
KS4:	OMR 752	
	OMR 885	

* Current Enrolment



THE AMERICAN INTERNATIONAL SCHOOL MUSCAT

Capacity: Site	800*	FACILITIES:
Size:	73,500m²	2no. 9 Court Sports Halls 120m Fitness Room
Fee Range:	(2017-18)	525 pax Auditorium (2012) 4000m2 Bosch Centre for Perf. Arts 250 seater cafeteria
Early Childhood	OMR4,890	Science Labs
Elementary:	OMR7,820	Art, DT, Music, Media & ICT Labs 2 Grass Soccer Pitches + 1 MUGA 1no. 25m Pool
Middle School:	OMR9,075	
High School:	OMR9,540	

* Current Enrolment



A'SOUD GLOBAL SCHOOL MUSCAT

Capacity:	TBC - 500 Sept 17	FACILITIES:
Site Size:	14,500m²	Indoor Sports Hall Activity Rooms Dining Hall
Fee Range:	(2016-17)	Science Labs
Nursery:	OMR3,500	Art, DT, Music, & ICT Labs 70mx30m Artificial Soccer Pitch 2 MUGA's
Reception:	OMR4,000	25m Pool & Splash Pool
Y1-Y4:	OMR4,500	
Y5-Y7:	OMR5,000	
Y8-Y10:	OMR6,000	
Y11-Y13:	OMR7,500	



MUSCAT INTERNATIONAL SCHOOL

Capacity:	TBC	FACILITIES:
Site Size:	22,500m²	Indoor Sports Hall Auditorium Science Labs
Fee Range:	(2017-18)	Art, DT, Music, & ICT Labs
Pre K:	OMR1,900	70m x 35m Artificial Soccer Pitch Running Track
KG1:	OMR2,100	
KG2:	OMR2,200	
Primary	OMR3,100 to OMR3,400	
Senior	OMR3,795 to OMR4,790	

PROJECT
REFERENCE :
CRANLEIGH
SCHOOL,
ABU DHABI

03

In 2014 the first phase of Cranleigh Abu Dhabi on Saadiyat Island with the school opening its doors to over 650 primary school students on the first day. Located on an 80,000m2 site behind the St Regis Hotel and within 1km of the Arabian Sea the school has some of the finest facilities in the Middle East and was recently voted Best International School in the World. Phase 2 opened in 2016.

The concept was to create a series of 'schools within a school', with all of the buildings in the campus wrapping around a green heart or village green.





1. MAIN ENTRANCE & AUDITORIUM



2. ATRIUM LOBBY



3. ATRIUM LOBBY



4. EARLY YEARS INTERACTIVE BREAK OUT AREA BETWEEN CLASSROOMS



5. 450 SEAT AUDITORIUM



6. 450 SEAT AUDITORIUM



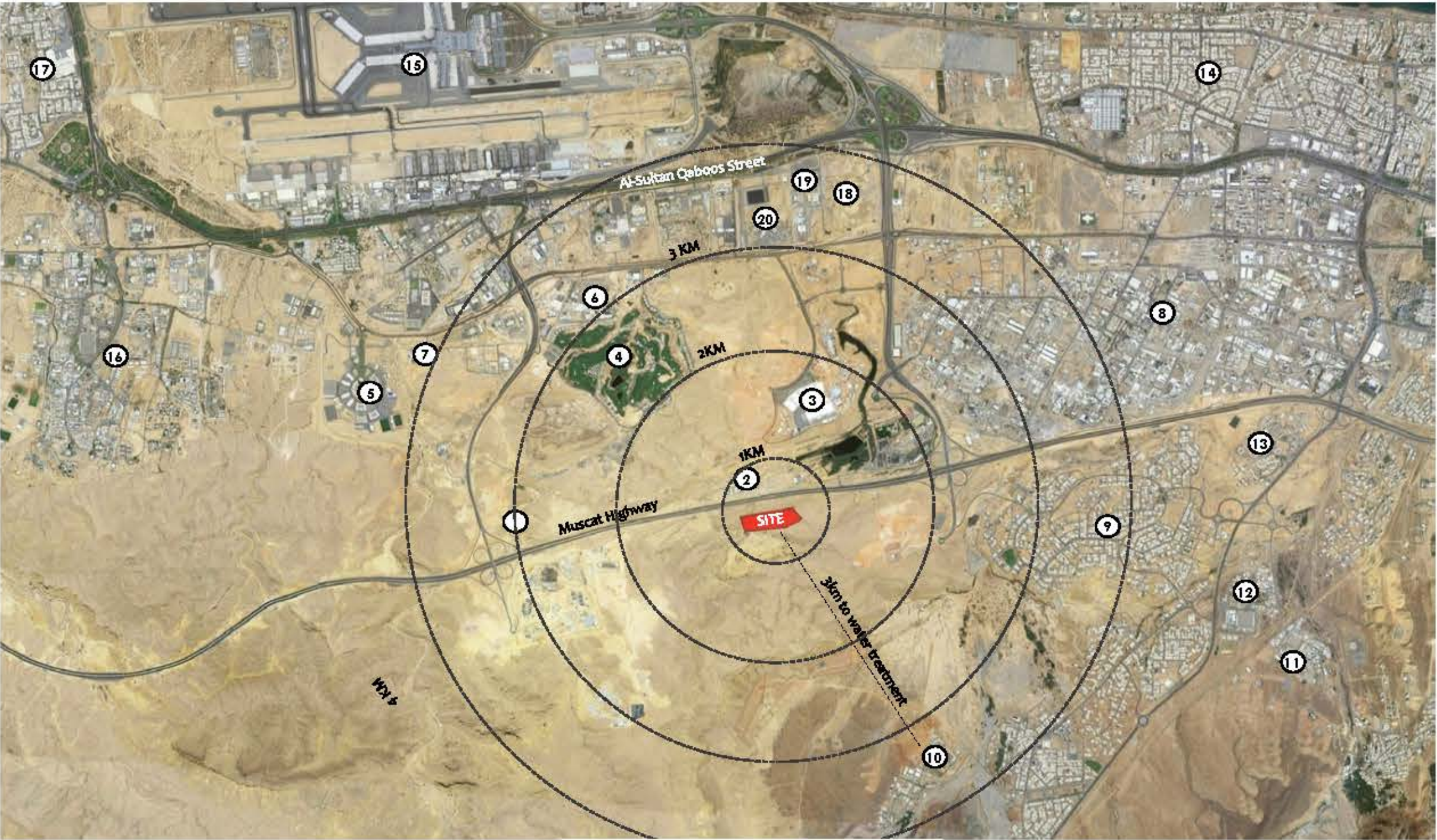
7. 50m SWIMMING POOL



8. 8 COURT SPORTS HALL

SITE
ANALYSIS

04



TOTAL MINIMUM DEVELOPABLE
LAND REQUIRED
48 252 sqm / 519 380 sqft / 11.9 acre

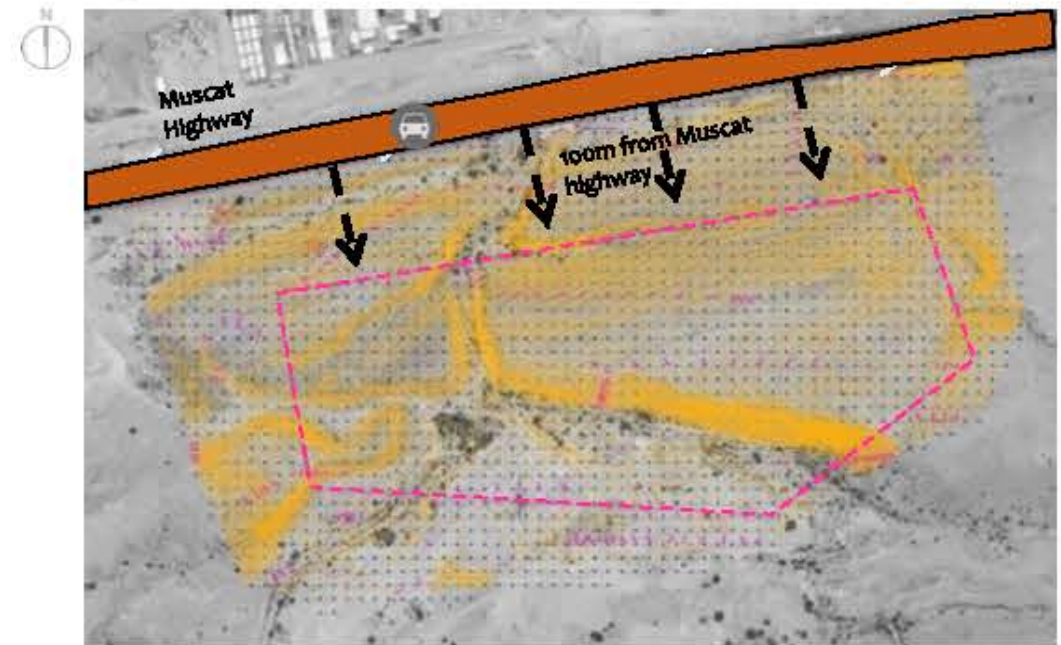
TOTAL SITE AREA
194 319 sqm / 2 091 632 sqft / 48 acre

Legend

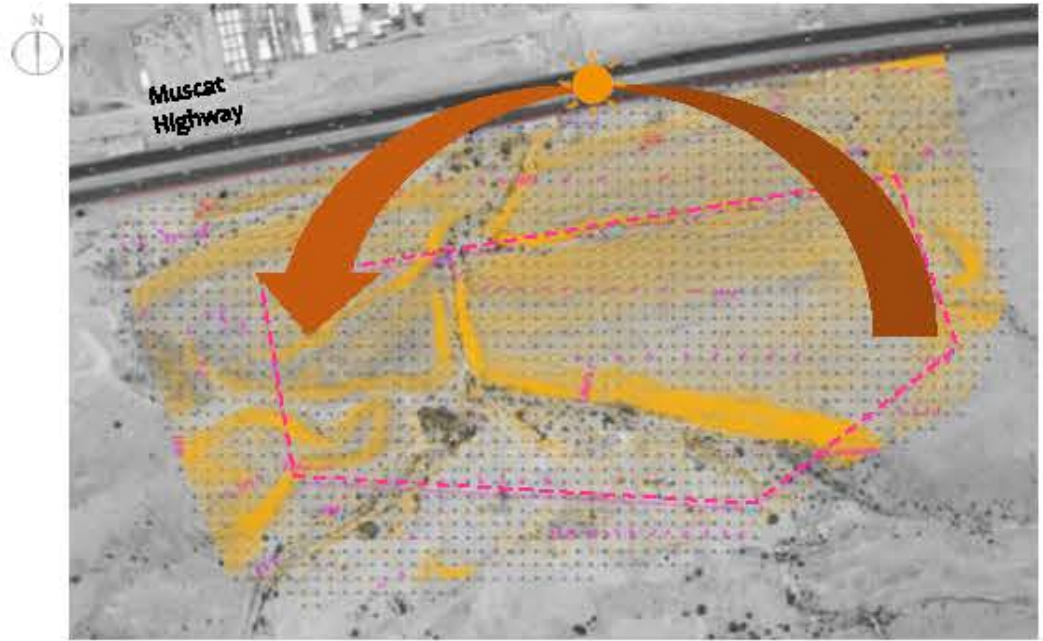
- 1. Soares de Sociedade Construcuo es de Costa
- 2. Galfar Muscat Expressway Office
- 3. Al Ansab Wetland
- 4. Water Planting



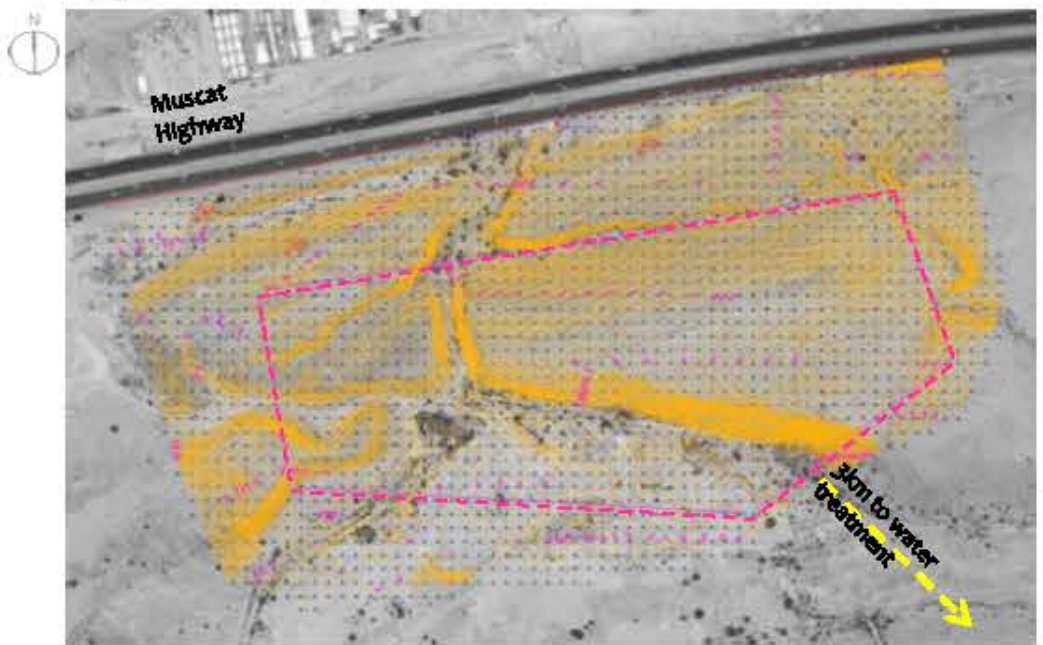
VEHICULAR CIRCULATION



NOISE

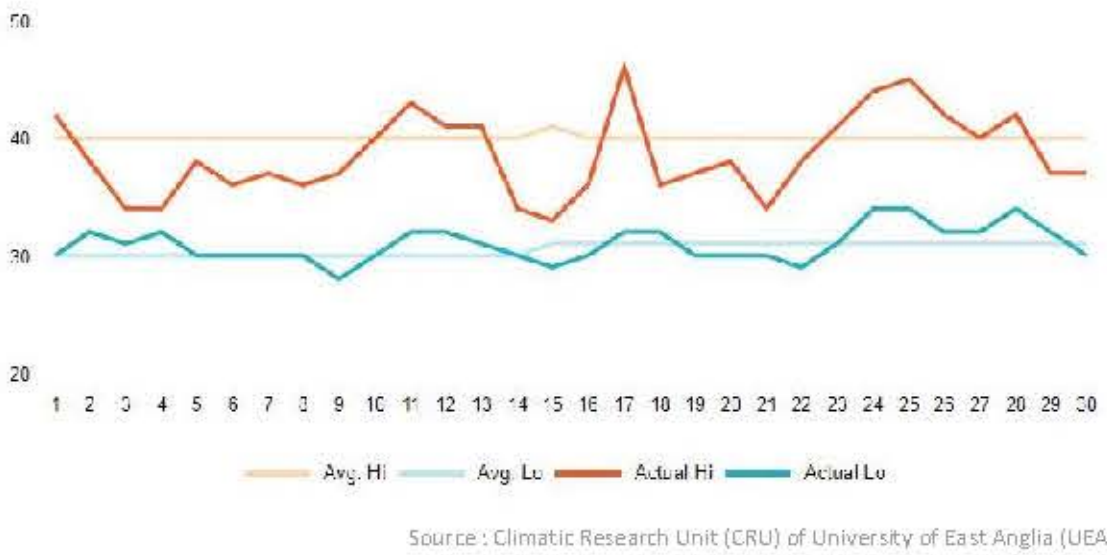


SUN PATH 12pm

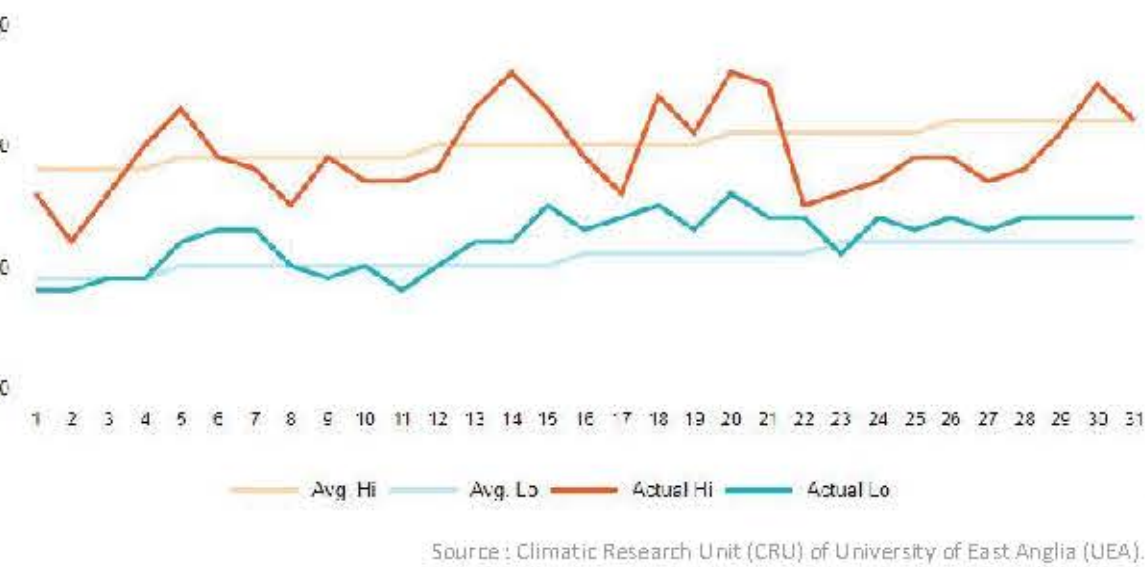


SMELL
WATER PLANT

Temperature Graph June 2017 (Hottest season)



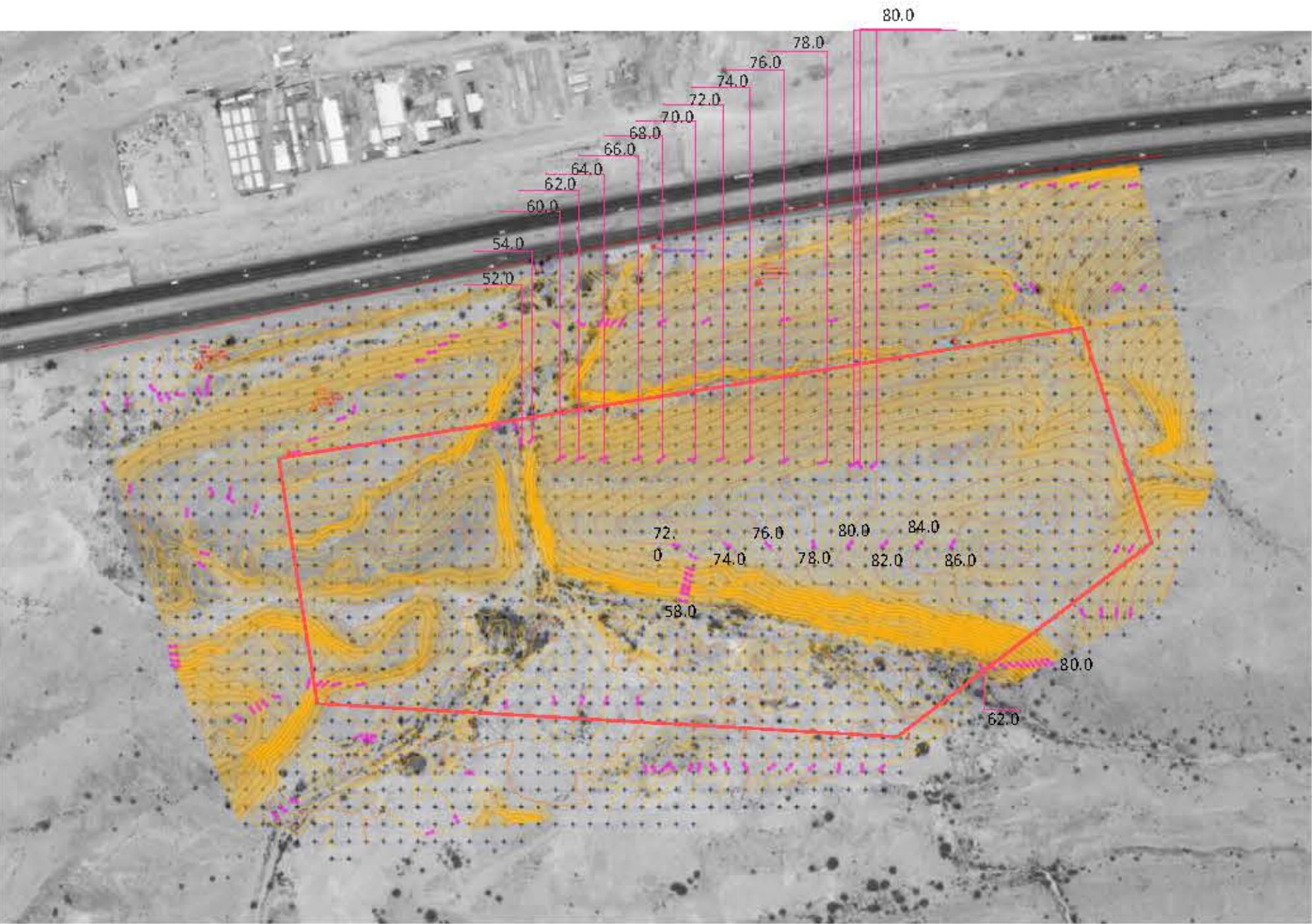
Temperature Graph March 2017 (Wettest season)



FLASH FLOOD & SANDSTORM IN MUSCAT, OMAN

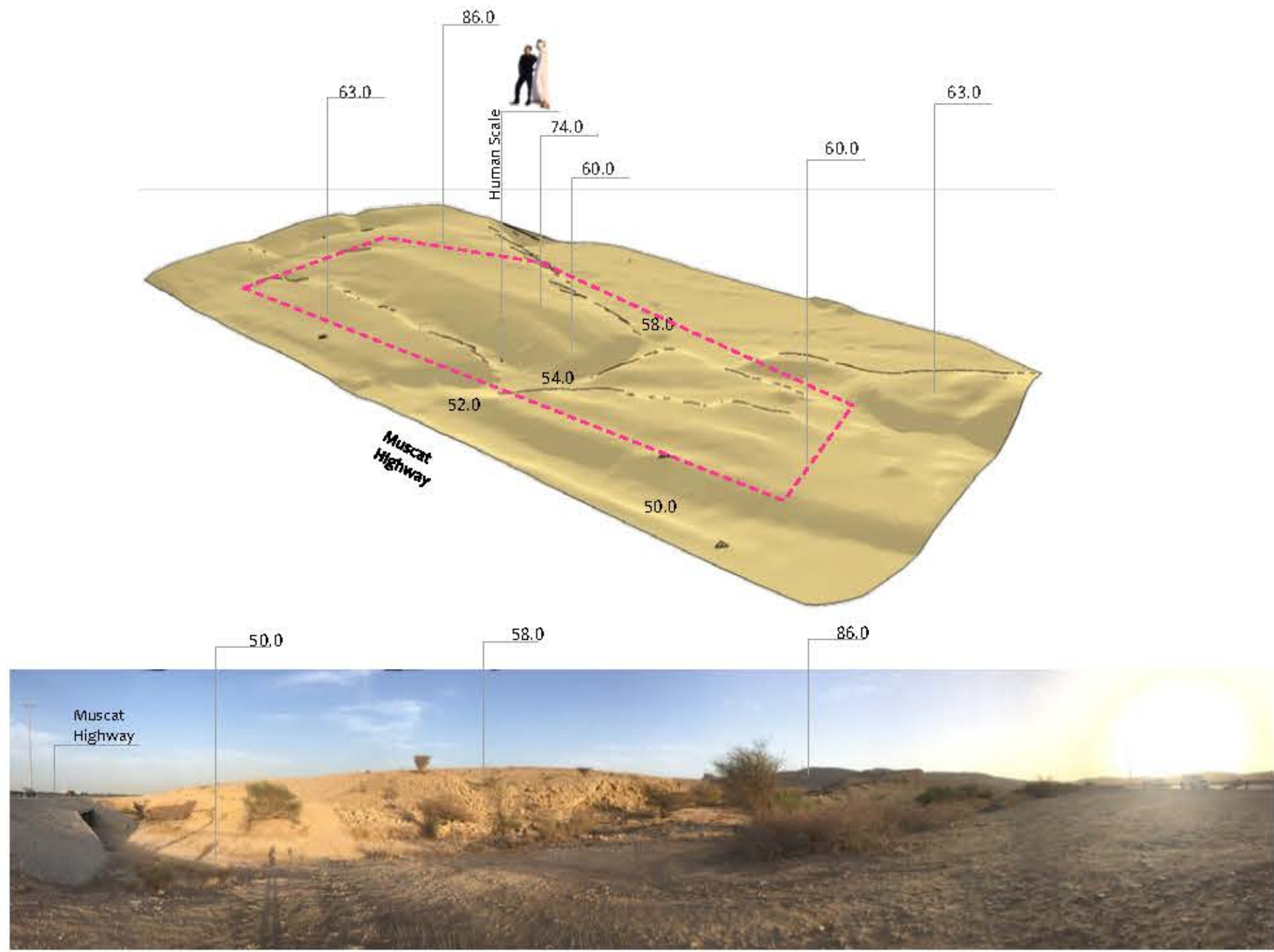
- 1. Annual rainfall in Muscat Dec – April :100 mm (4 in)
- 2. Heavy rainfall triggers mudslides early in MARCH.
- 3. Thunderstorm can produce downpours capable of causing flash flooding and travel delays.
- 4. A hot, dust-laden wind, the SHAMAL, blows in the spring and summer-period, from March till August. sometimes these winds can be very strong, and cause SANDSTORMS.

Source : Climatic Research Unit (CRU) of University of East Anglia (UEA).

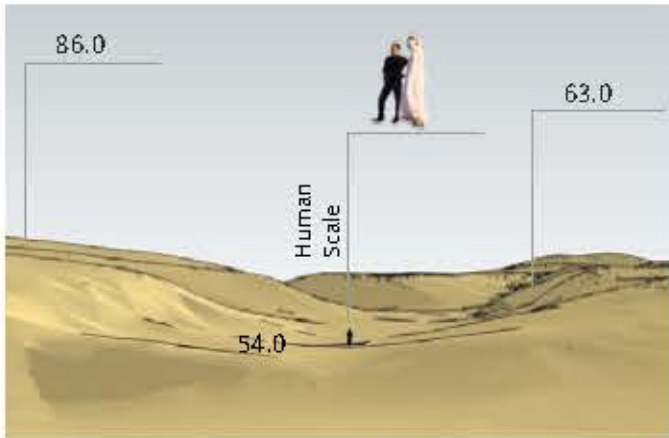
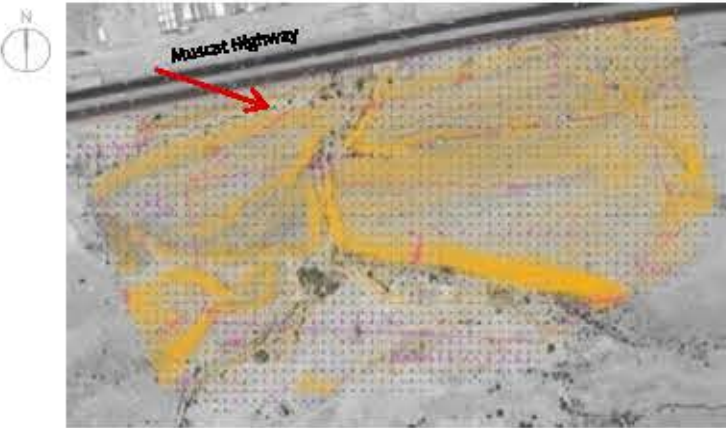


- Approximately 2 cm thick surface salt crust.
- Surface texture (0-5cm) loamy fine sand
- 70cm lightly gravelly sandy clay loam.
- Carbonaceous rocks.

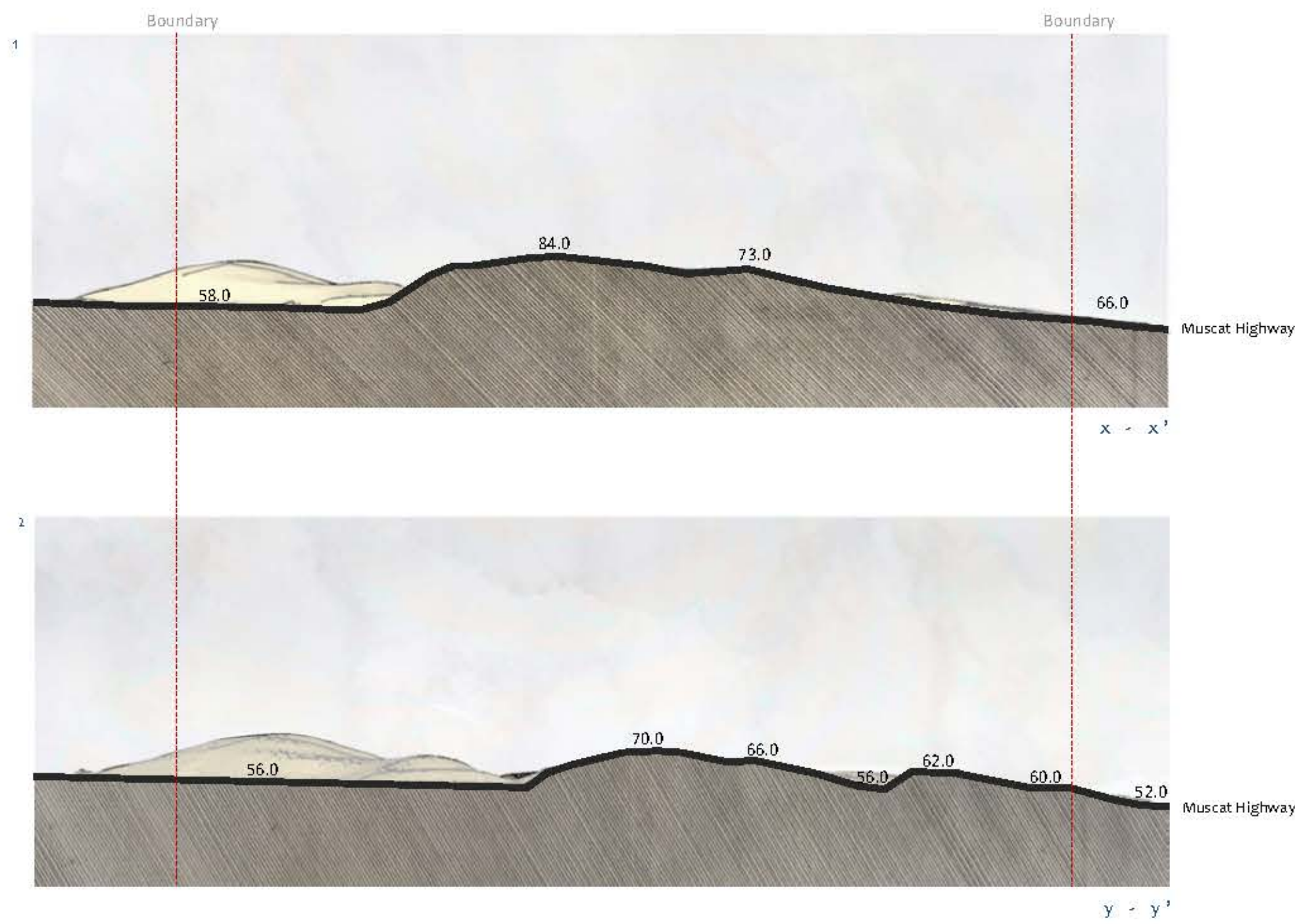
Source : Agricultural and Marine Sciences, 8(1):41-46 (2003)
© 2003 Sultan Qaboos University



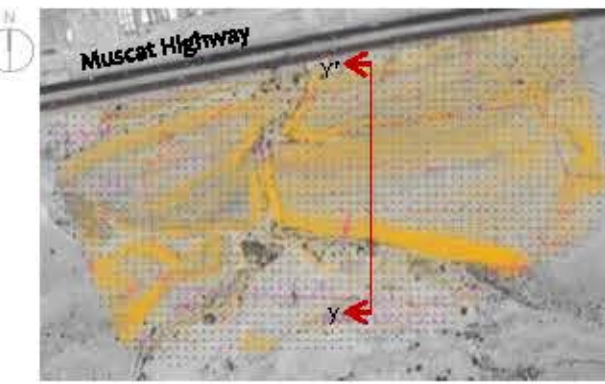
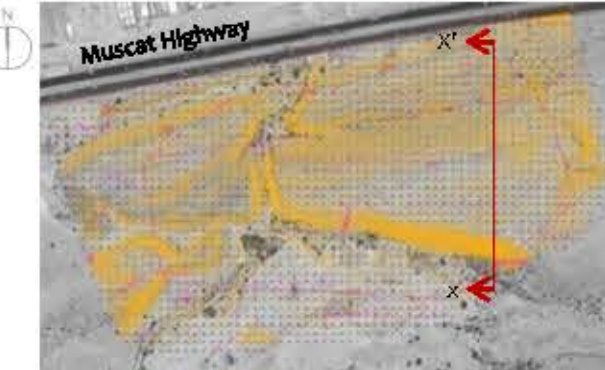
Legend

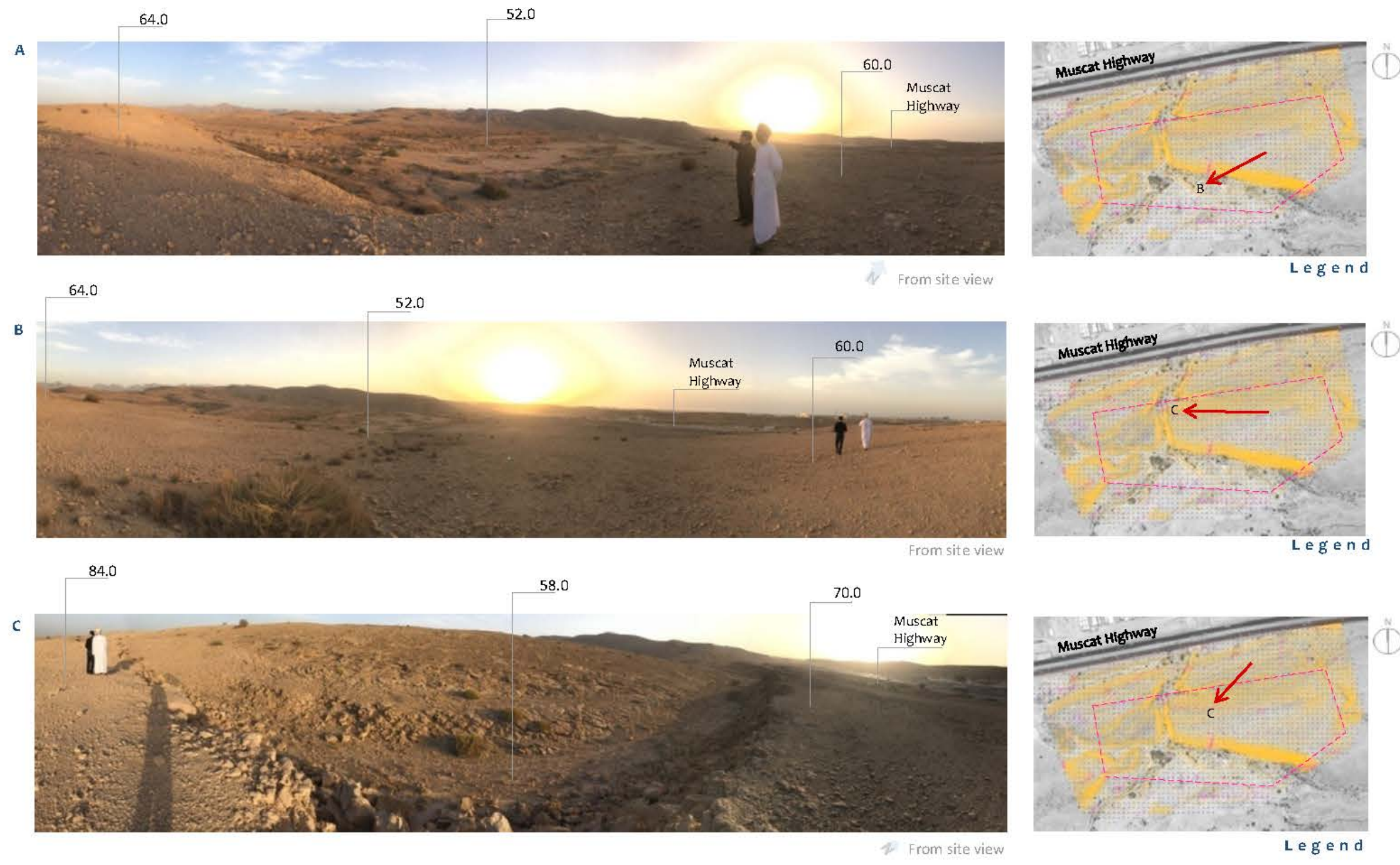


*NOTE
Highest and lowest point for every hill.



Legend

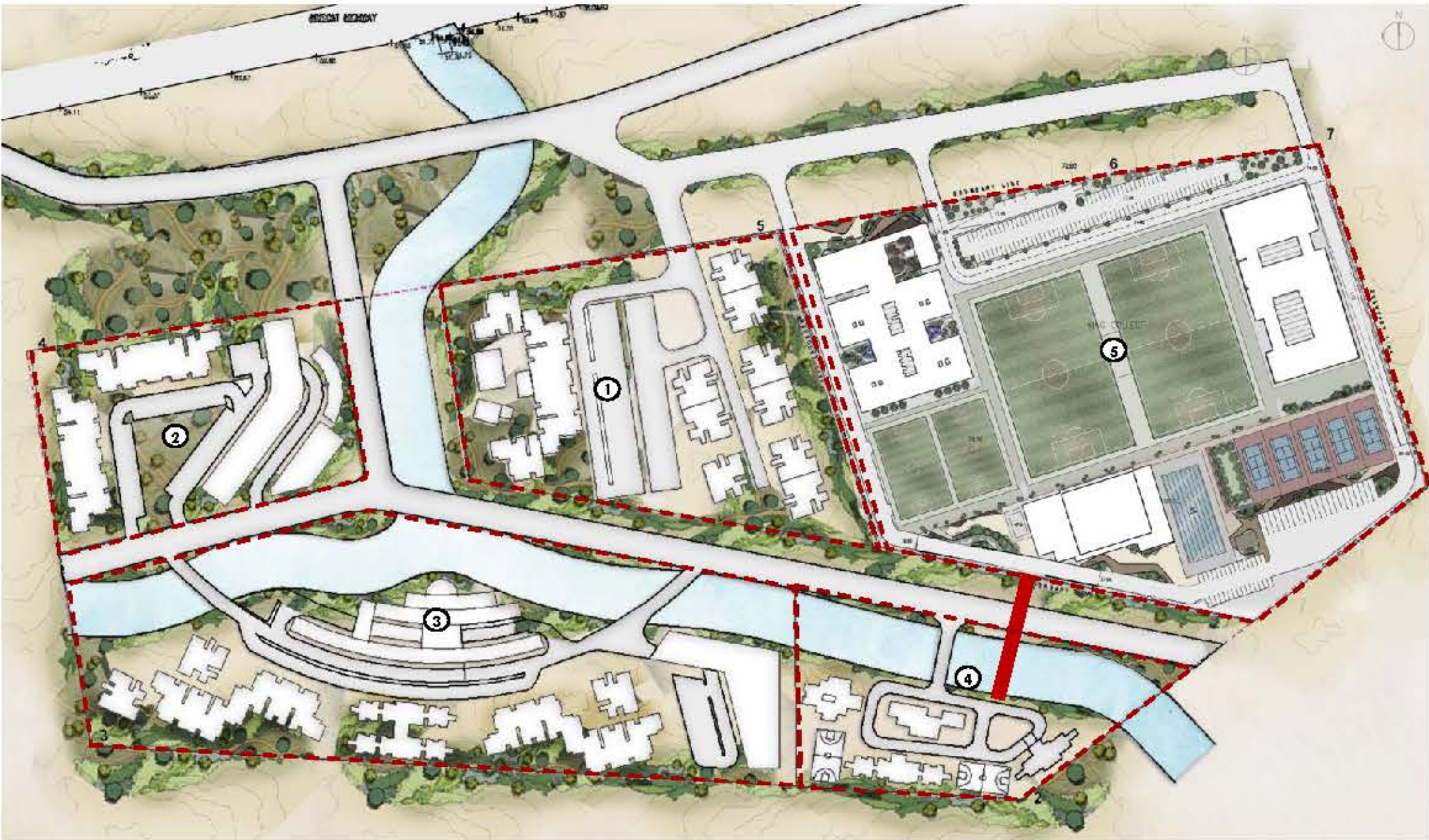




DESIGN
DEVELOPMENT :
SCHOOL

05



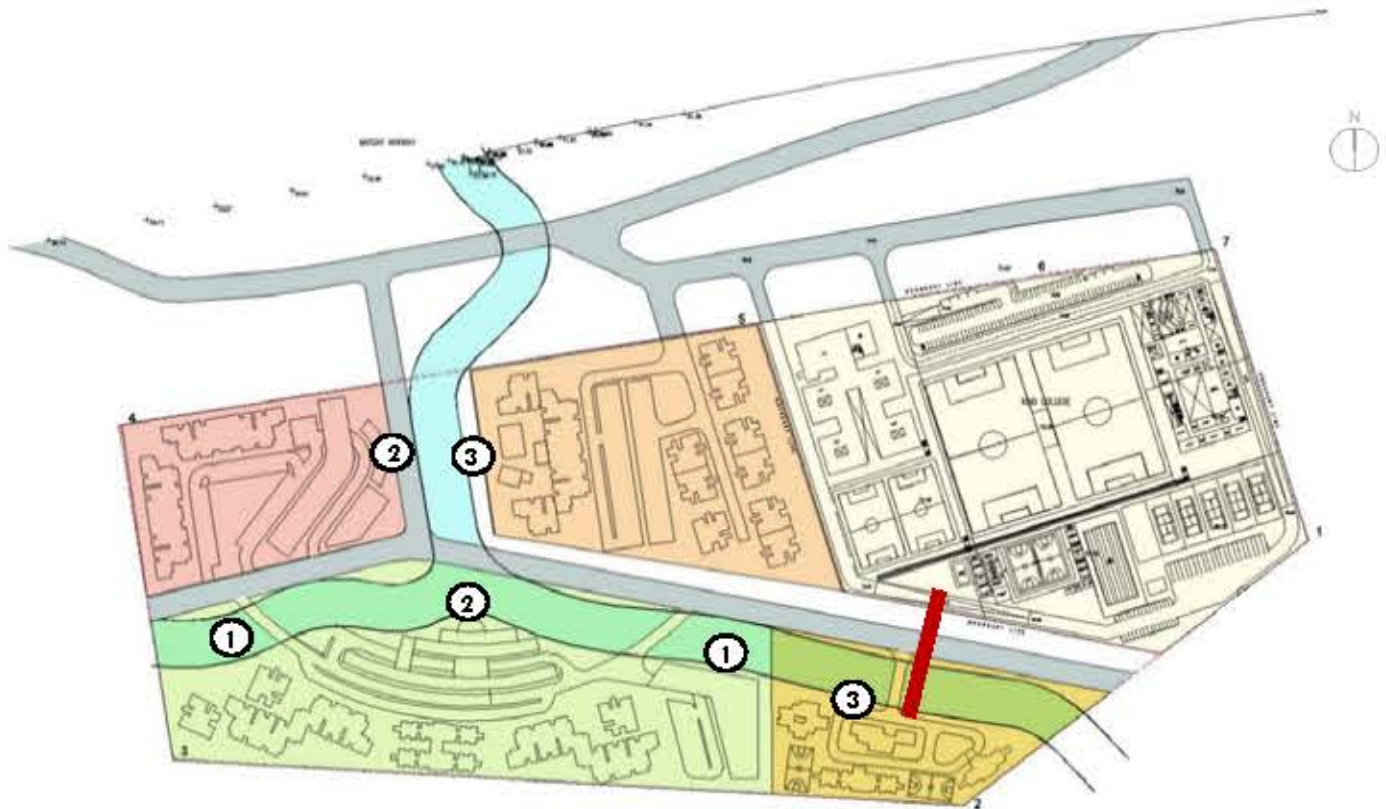


- Legend**
- 1. Potential Residential
28 221 SQM | 6.97 acre
 - 2. Potential Residential & Commercial
28 330 SQM | 7.0 acre
 - 3. Potential Residential & Commercial
46 392 SQM | 11.4 acre
 - 4. Potential Boarding House
16 317 SQM | 4.0 acre
 - 5. King's College Muscat
64 300 SQM | 15.88 Acre
 - 6. Link bridge to boys Boarding House

The masterplan based on the genius loci of the site follow the natural lay of the site to provide the creation of the entrance at the merging and meeting point to the overall development. Utilising the natural wadi flow, this focal point for activities will also be the commercial hub with residential by its side.

The school providing the backdrop to the development on the east maintain its prominence through its frontage to the highway and height. This is also for potential flexible expansion to the west and south for boys and girls boarding or residential for the public allowing for both possibilities in the future.

In this the masterplan is design for the potential of the site and the future possibilities without constraining its final destiny.



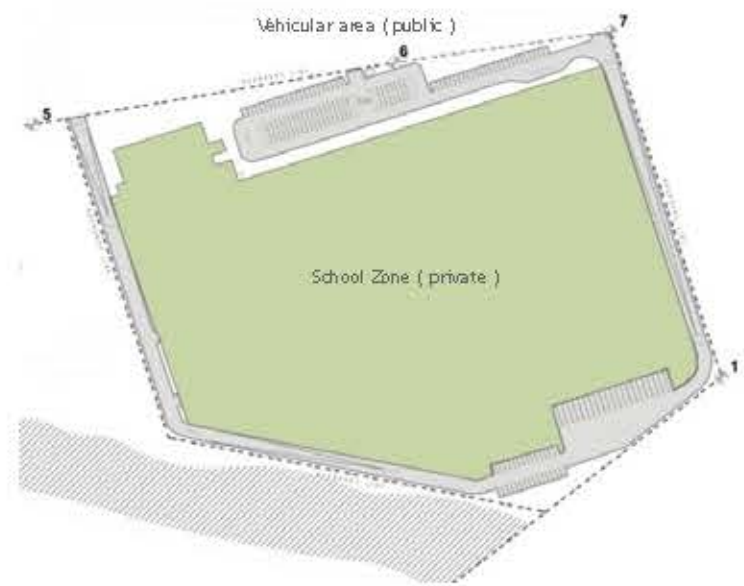
Utilising the natural features of the site as part of the public activities



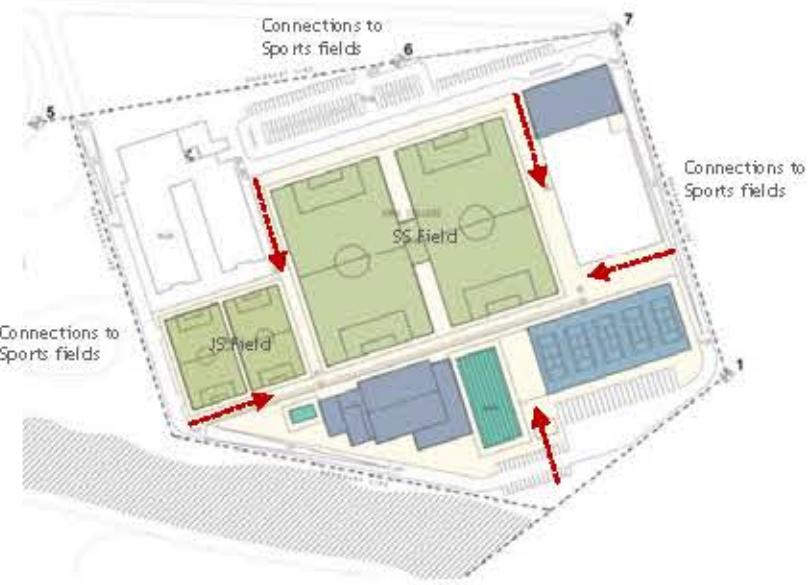
Proposed the waterfront commercial development along the wadi's trail



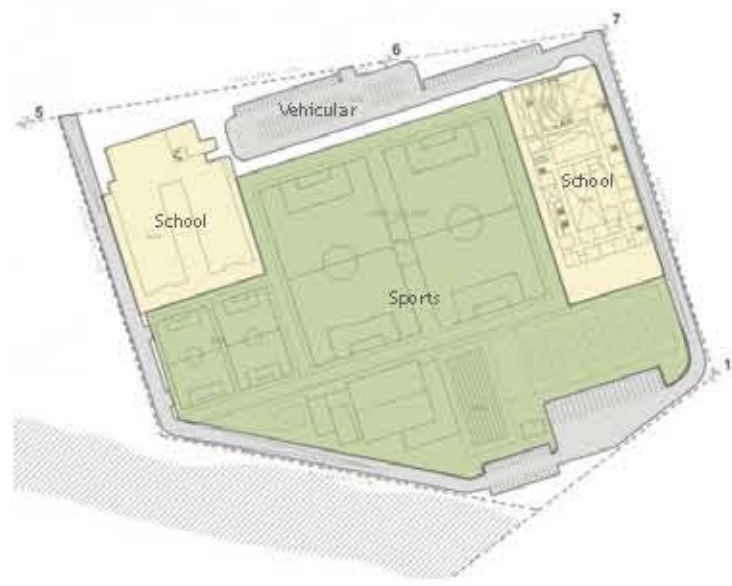
Residential development overlooking the natural features of the site i.e. wadi's and stone scape.



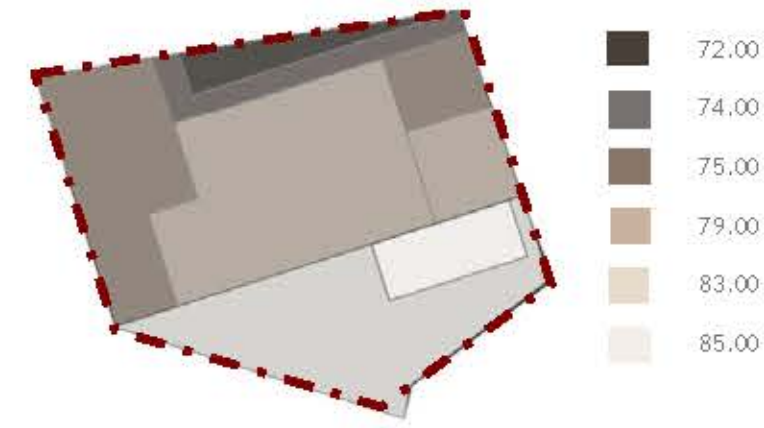
Public / Private



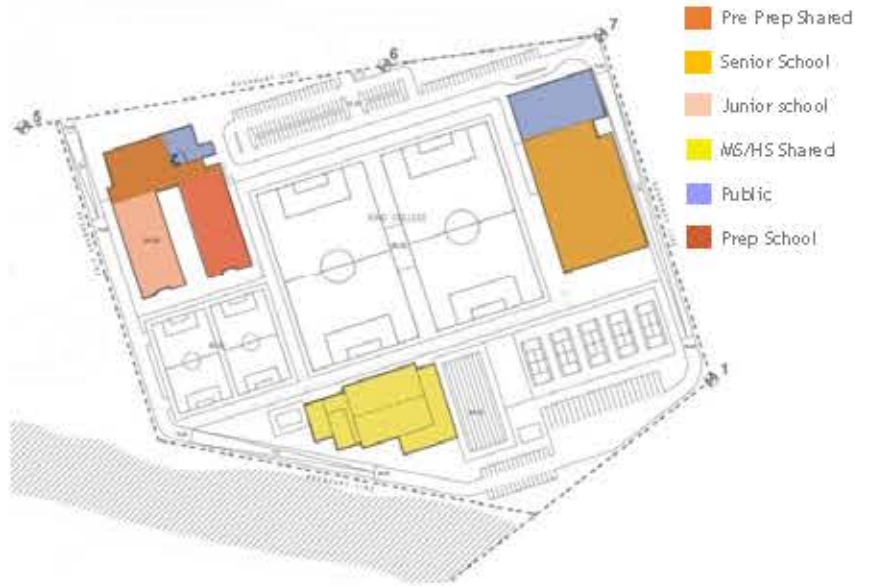
Community Facilities



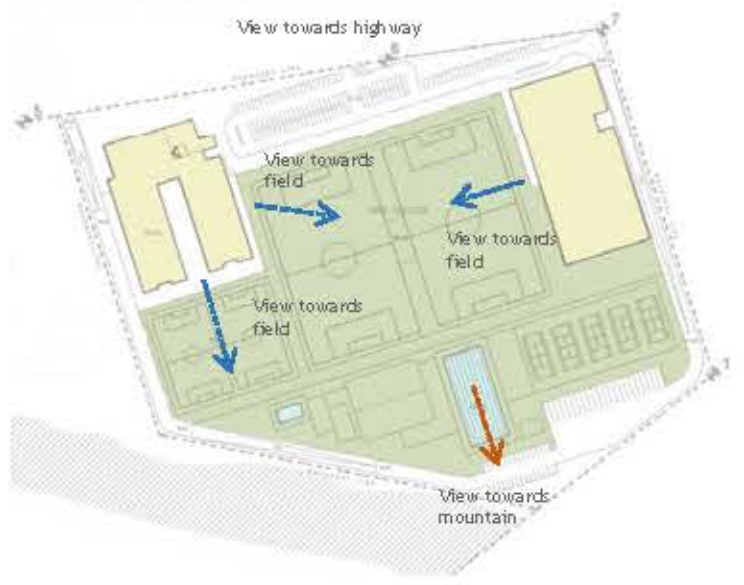
Site Zoning



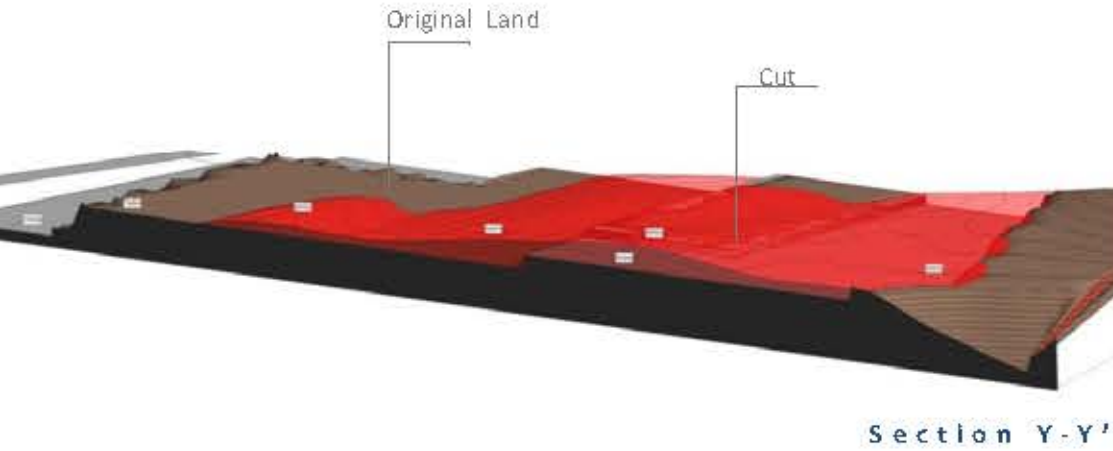
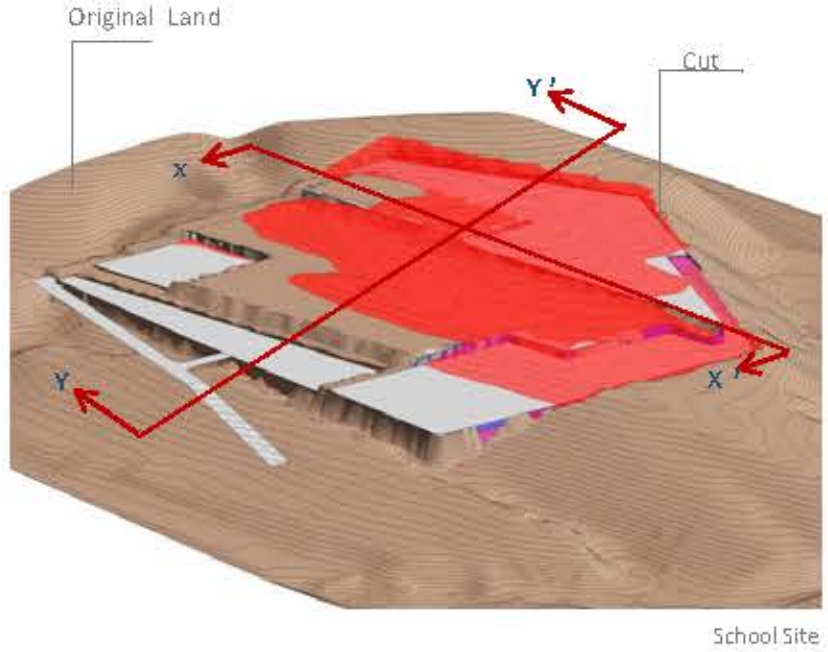
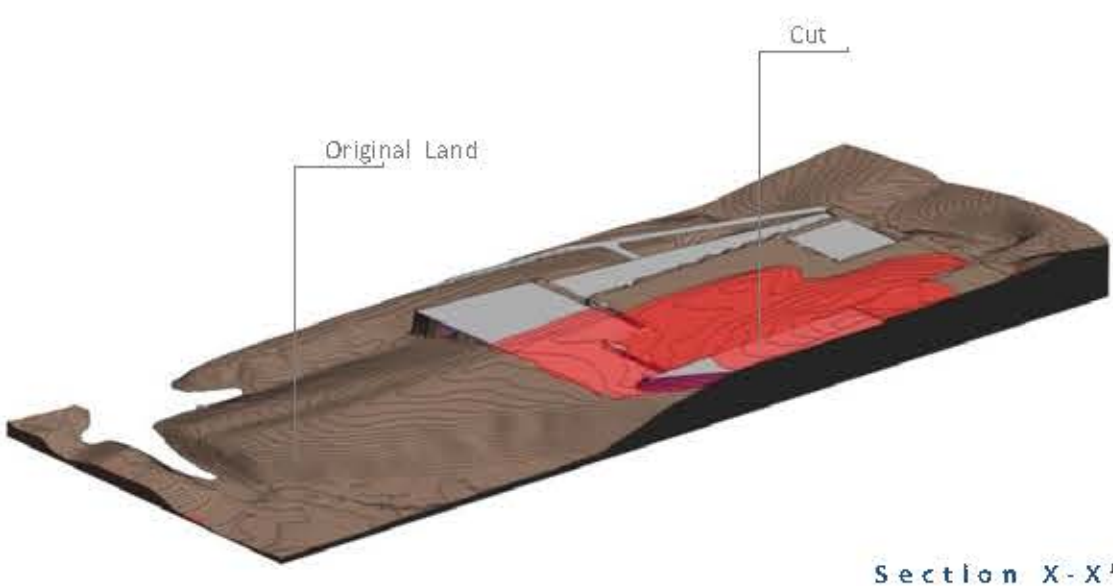
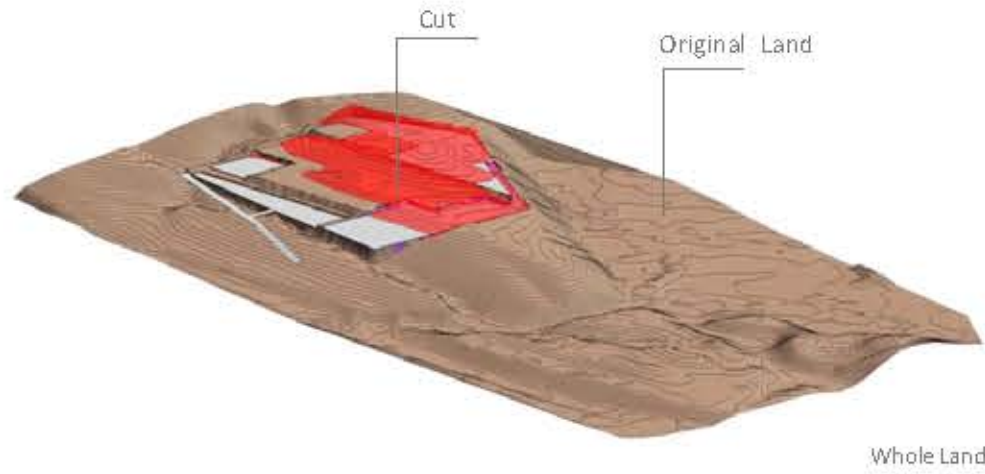
Topography



Schools

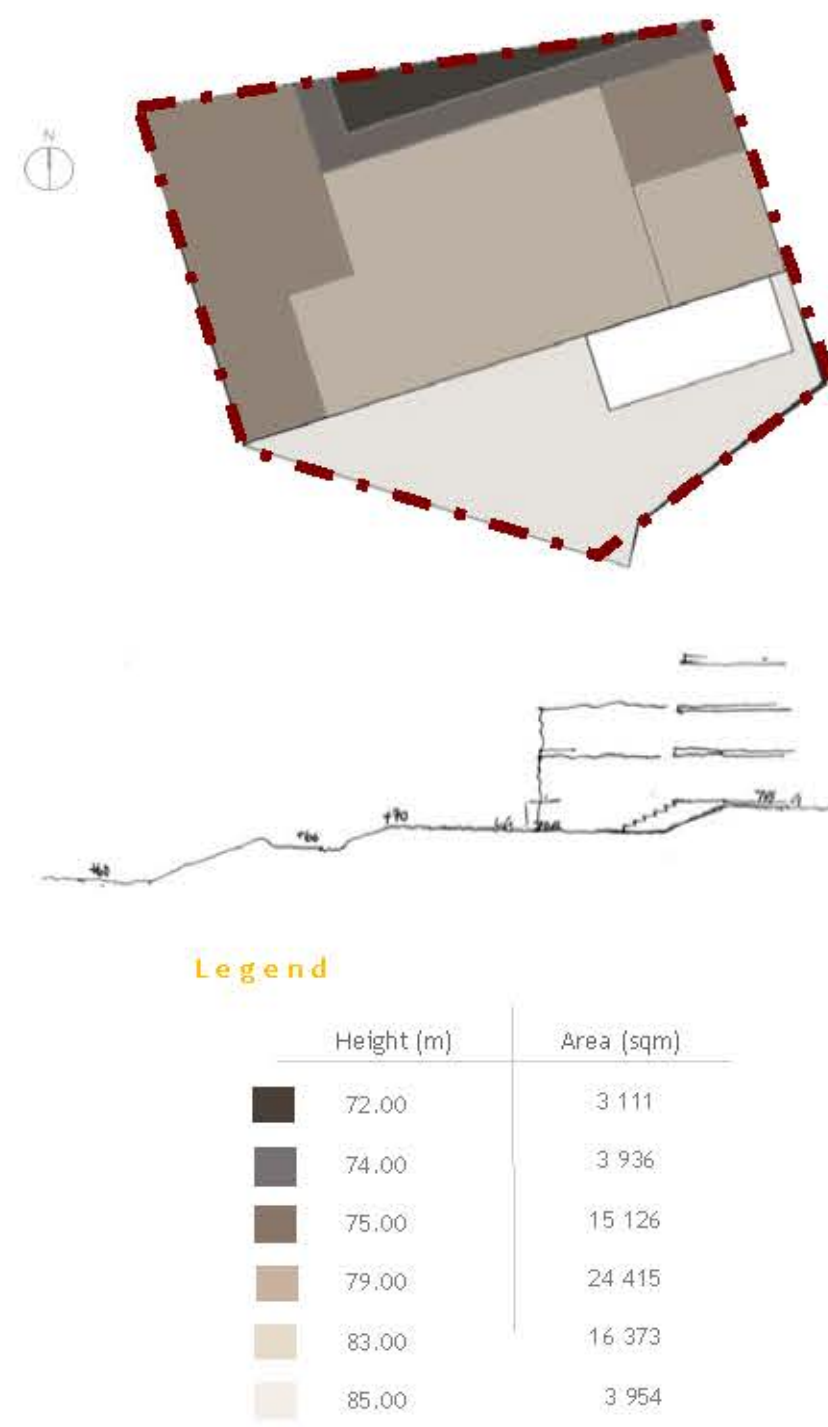
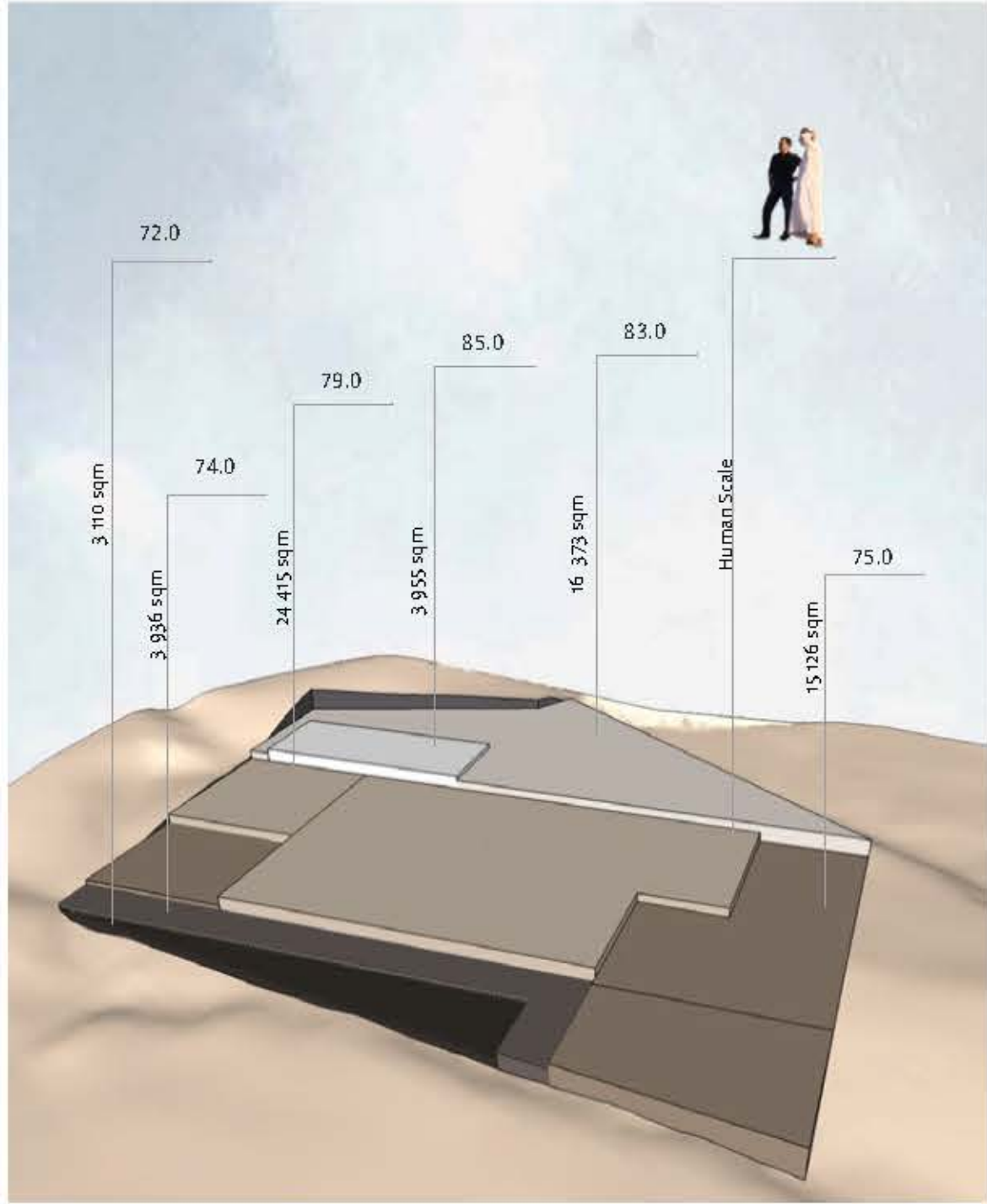


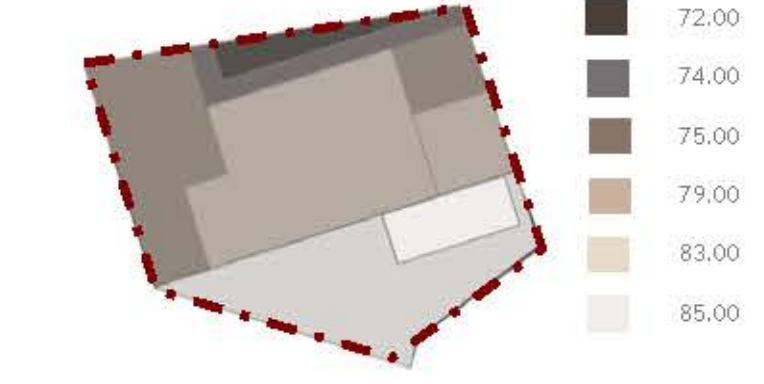
Views & Orientation



Topography Schedule

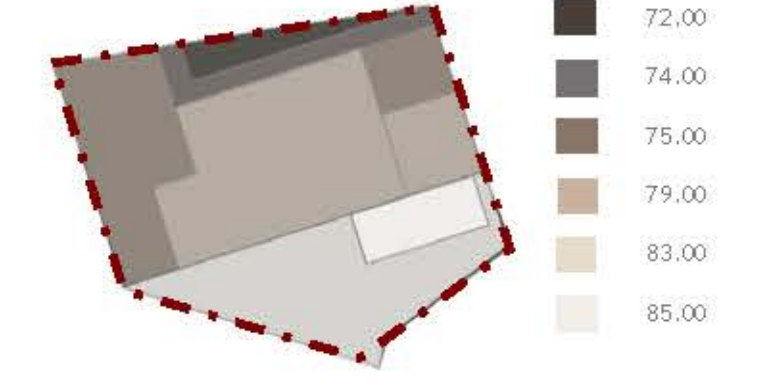
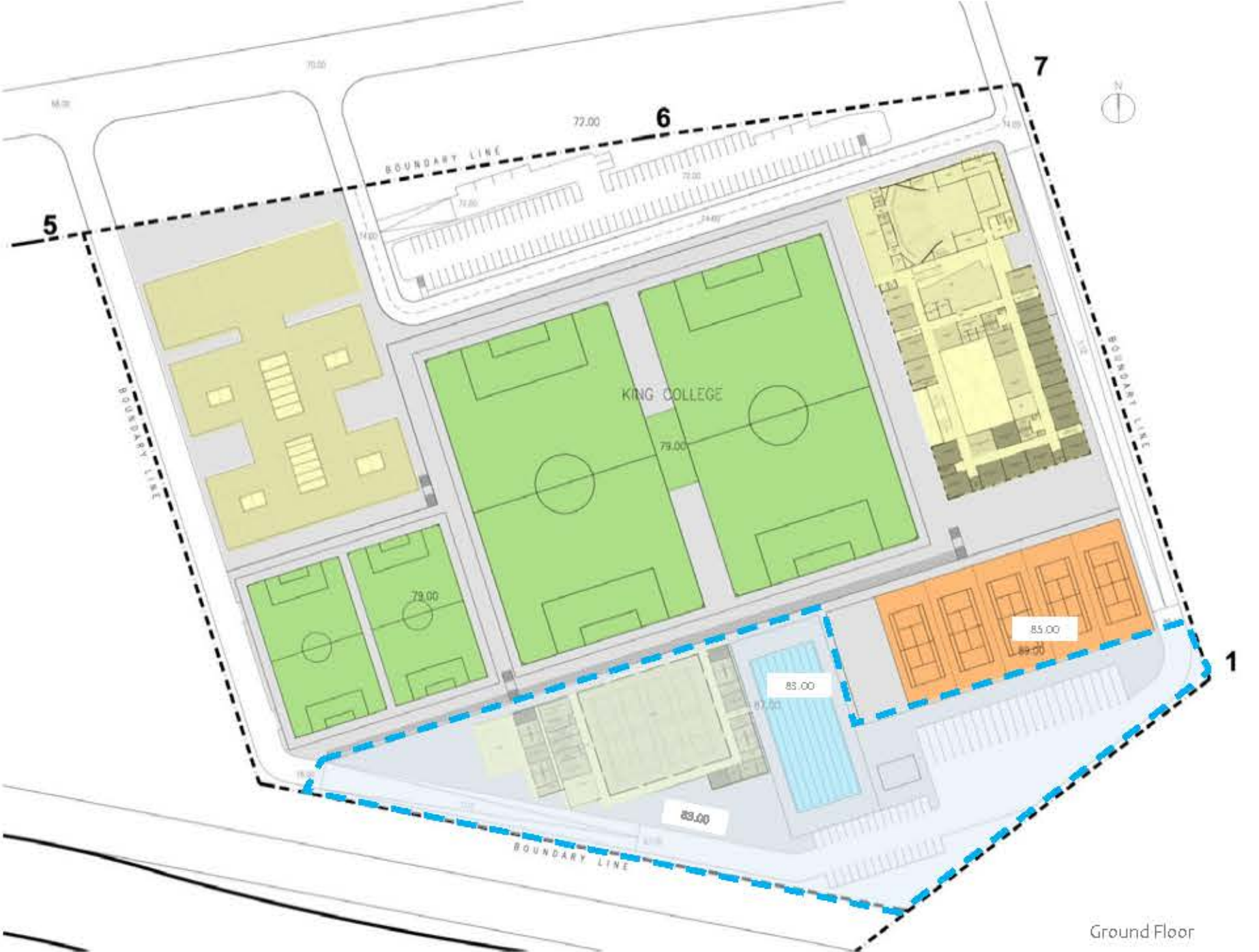
No	Name	Cut	Fill	Net cut/fill
4.	New Site (83.00)	51949.37m³	38792.12 m³	13157.24 m³





- Legend**
- Junior School
 - Auditorium & Senior School
 - Upper Level Development
 - Field

Ground Floor

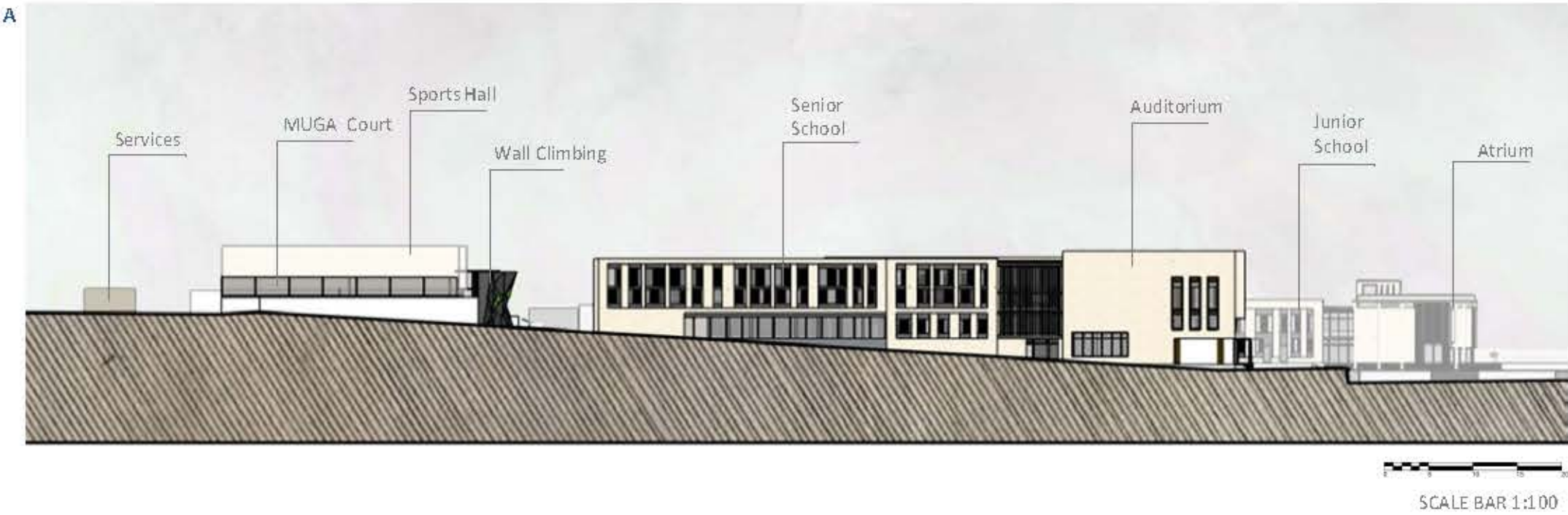


- Legend**
- Junior School
 - Auditorium & Senior School
 - Upper Level Development
 - Field
 - MUGA Court
 - Pool
 - Sports Hall

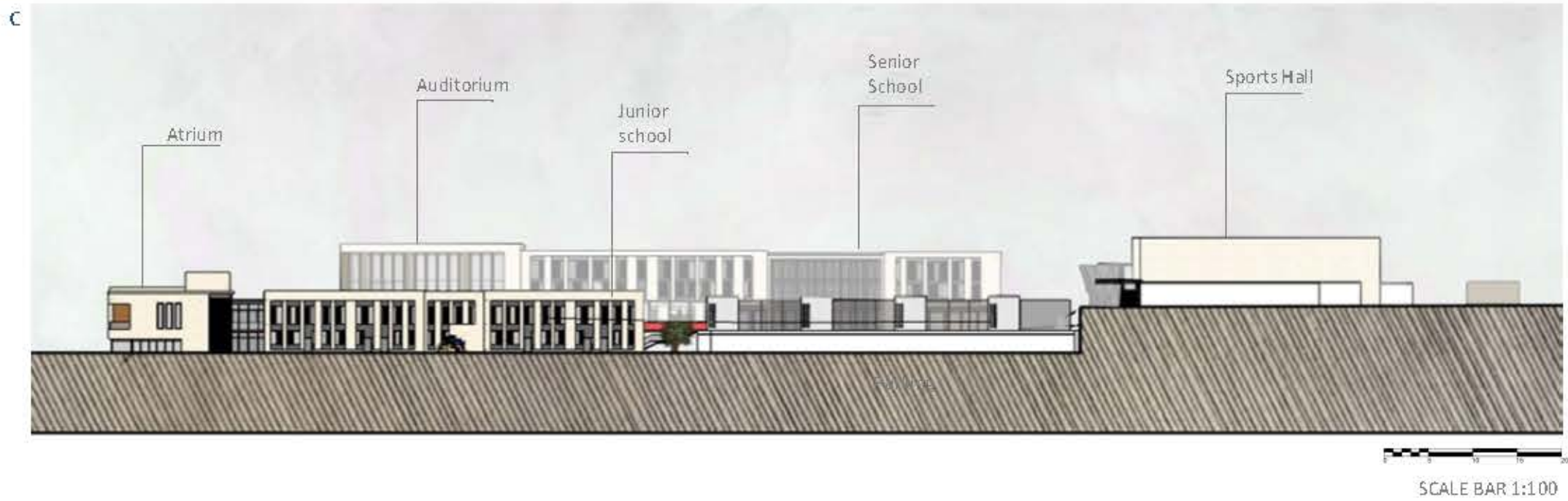
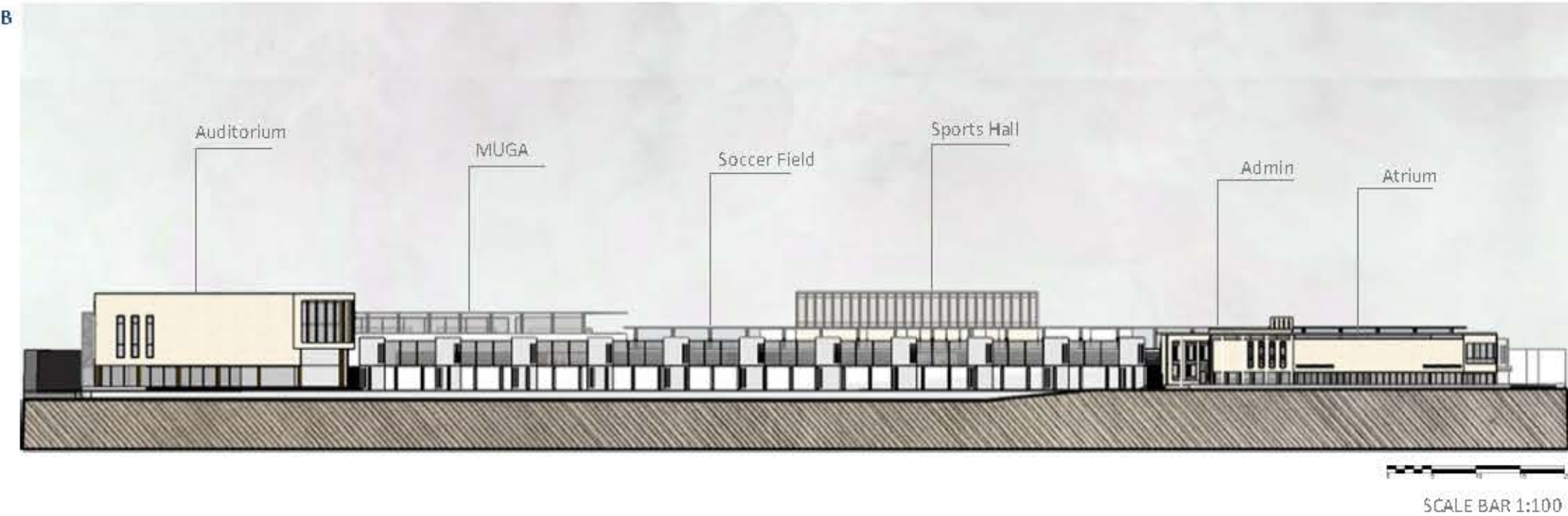
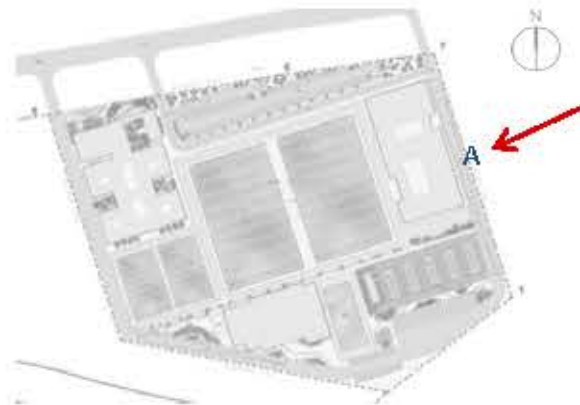
Ground Floor



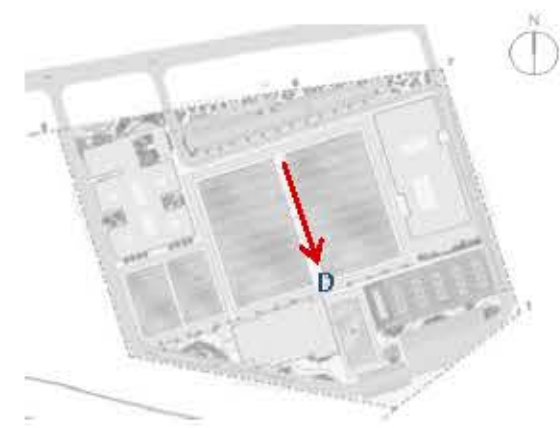
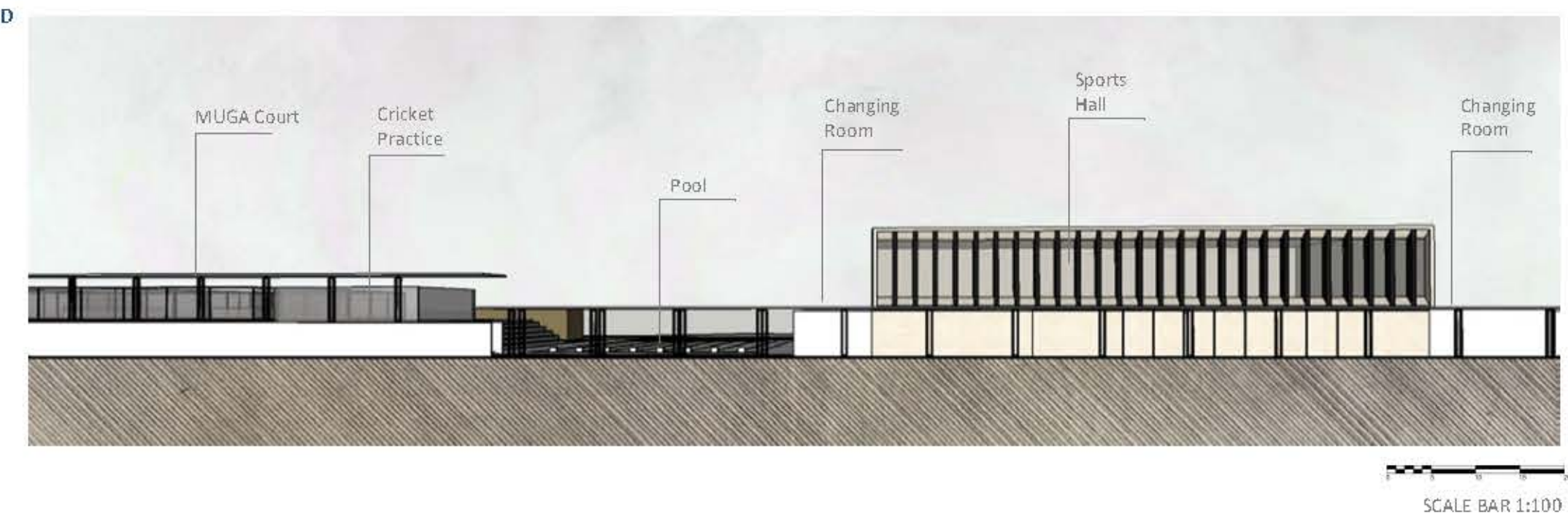


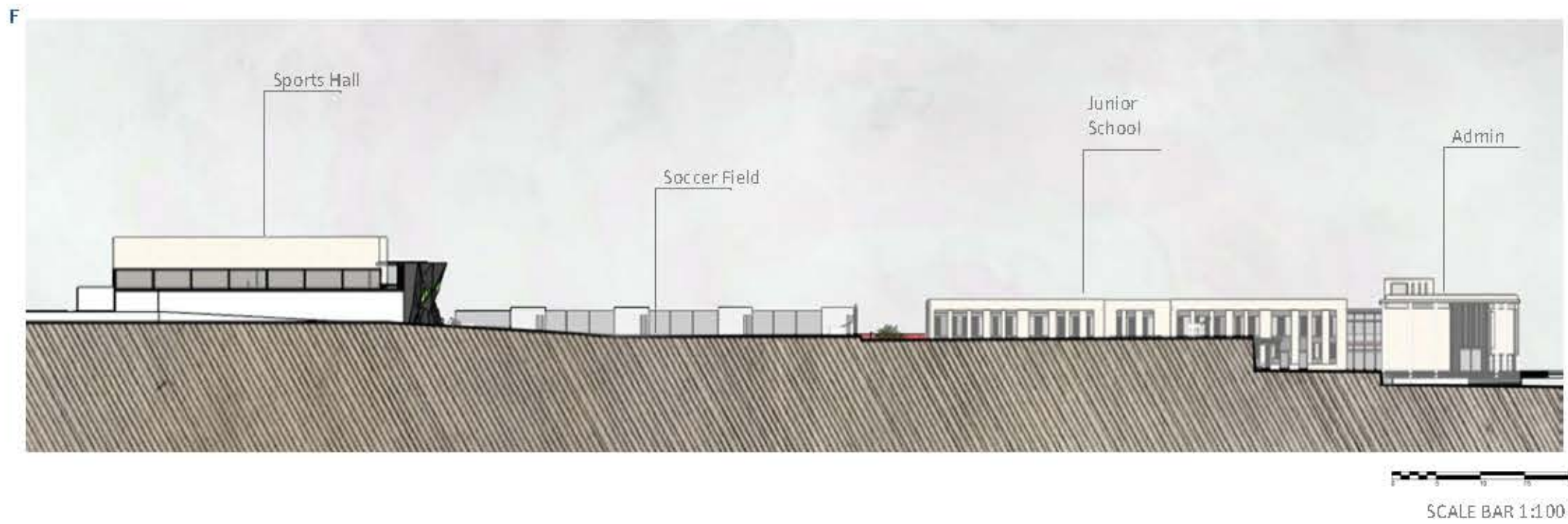
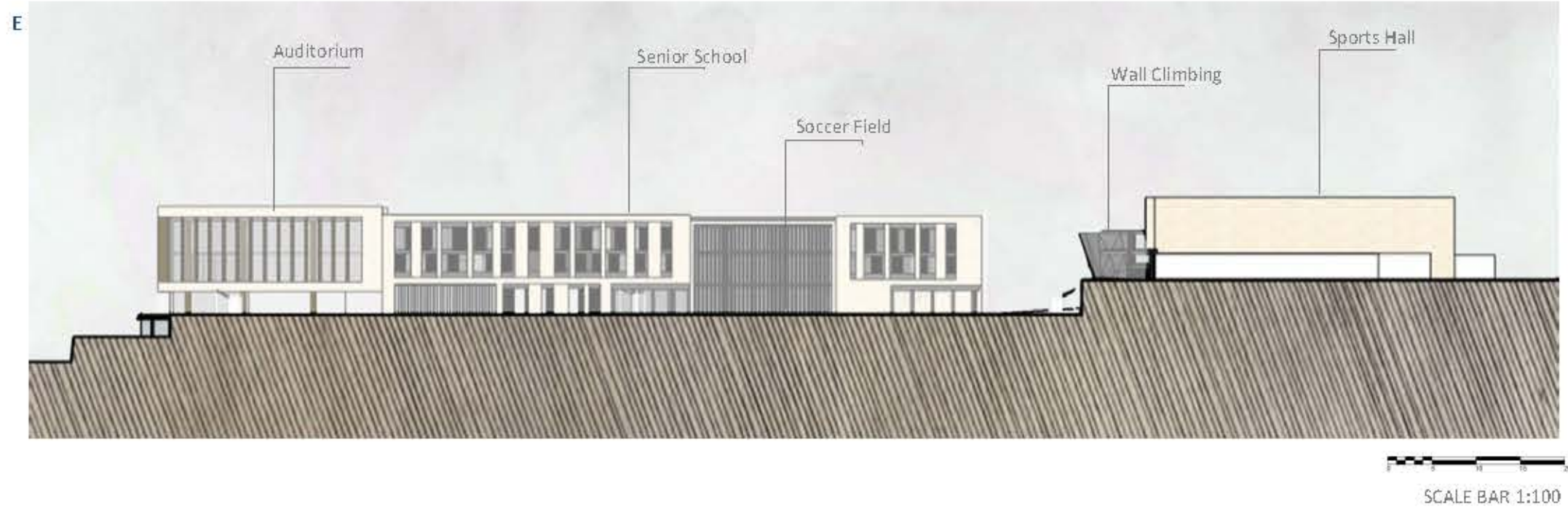


Legend

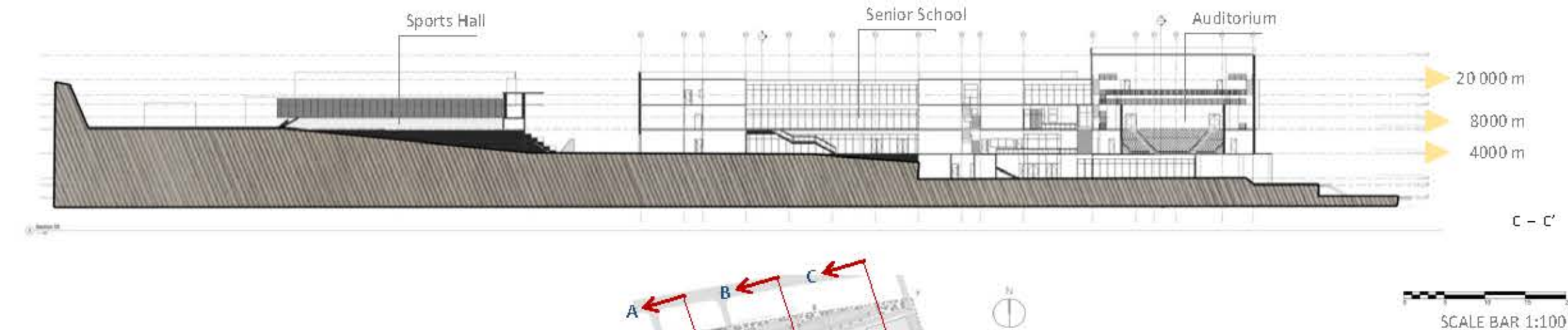
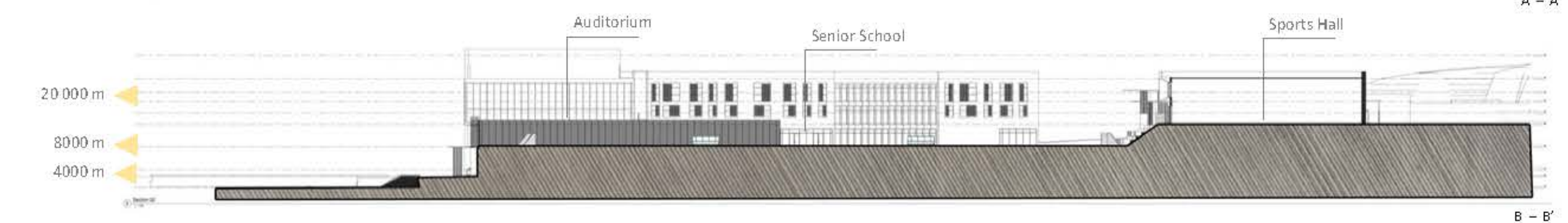
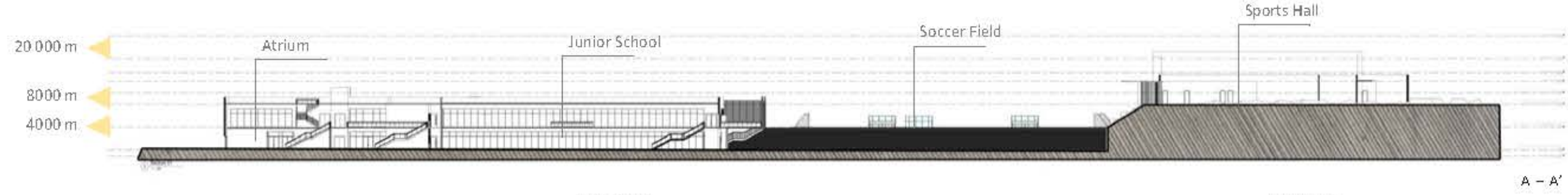


Legend

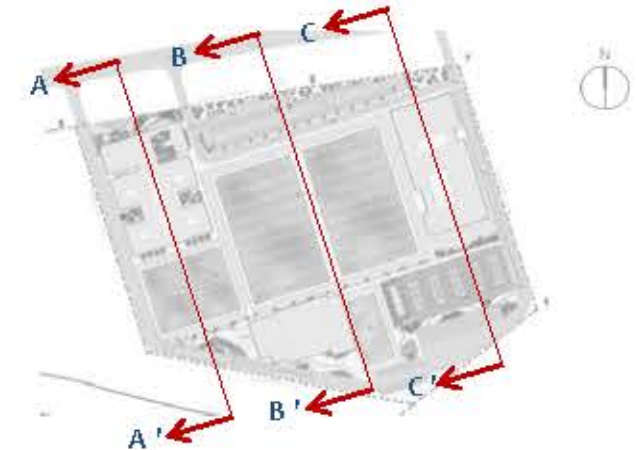


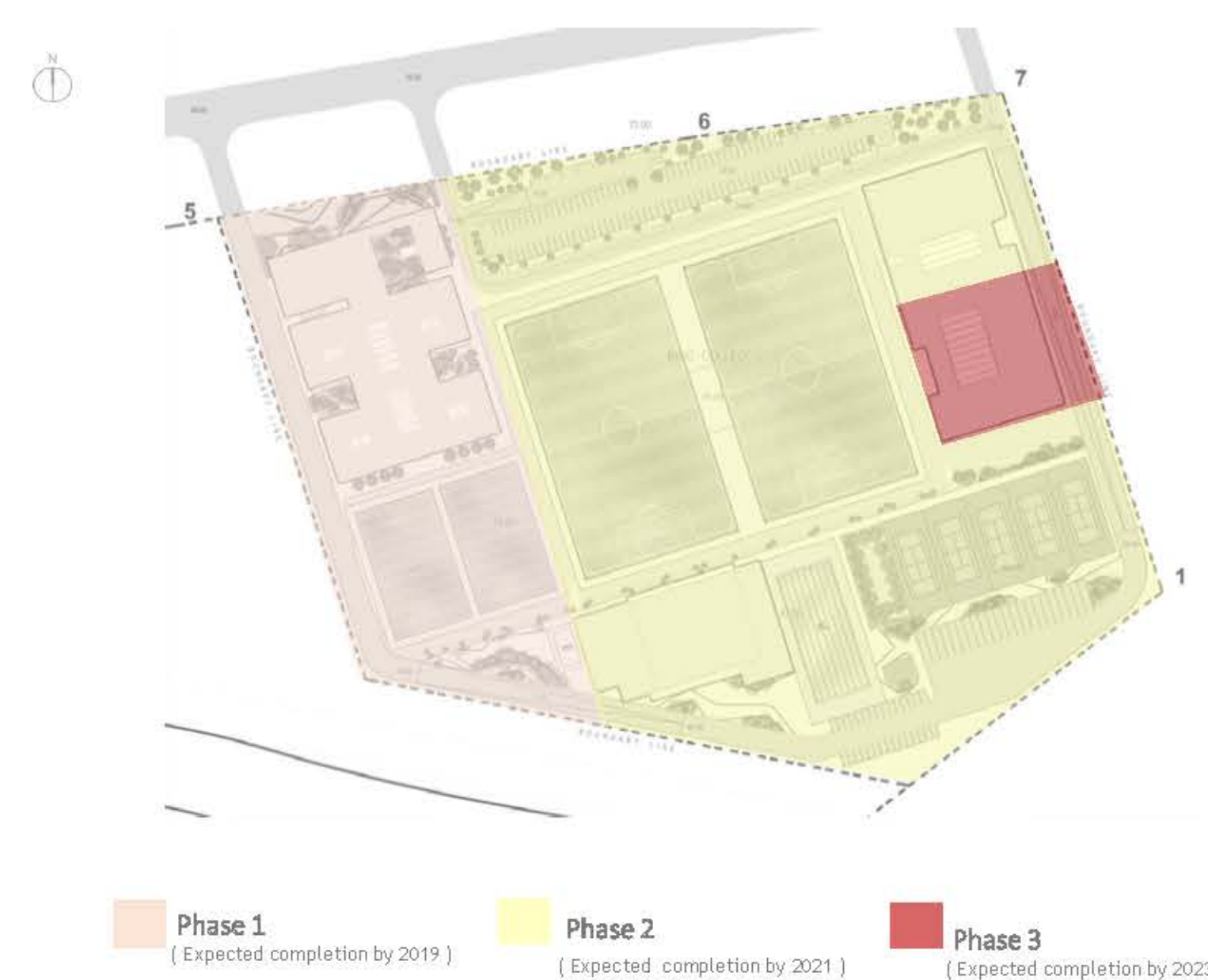
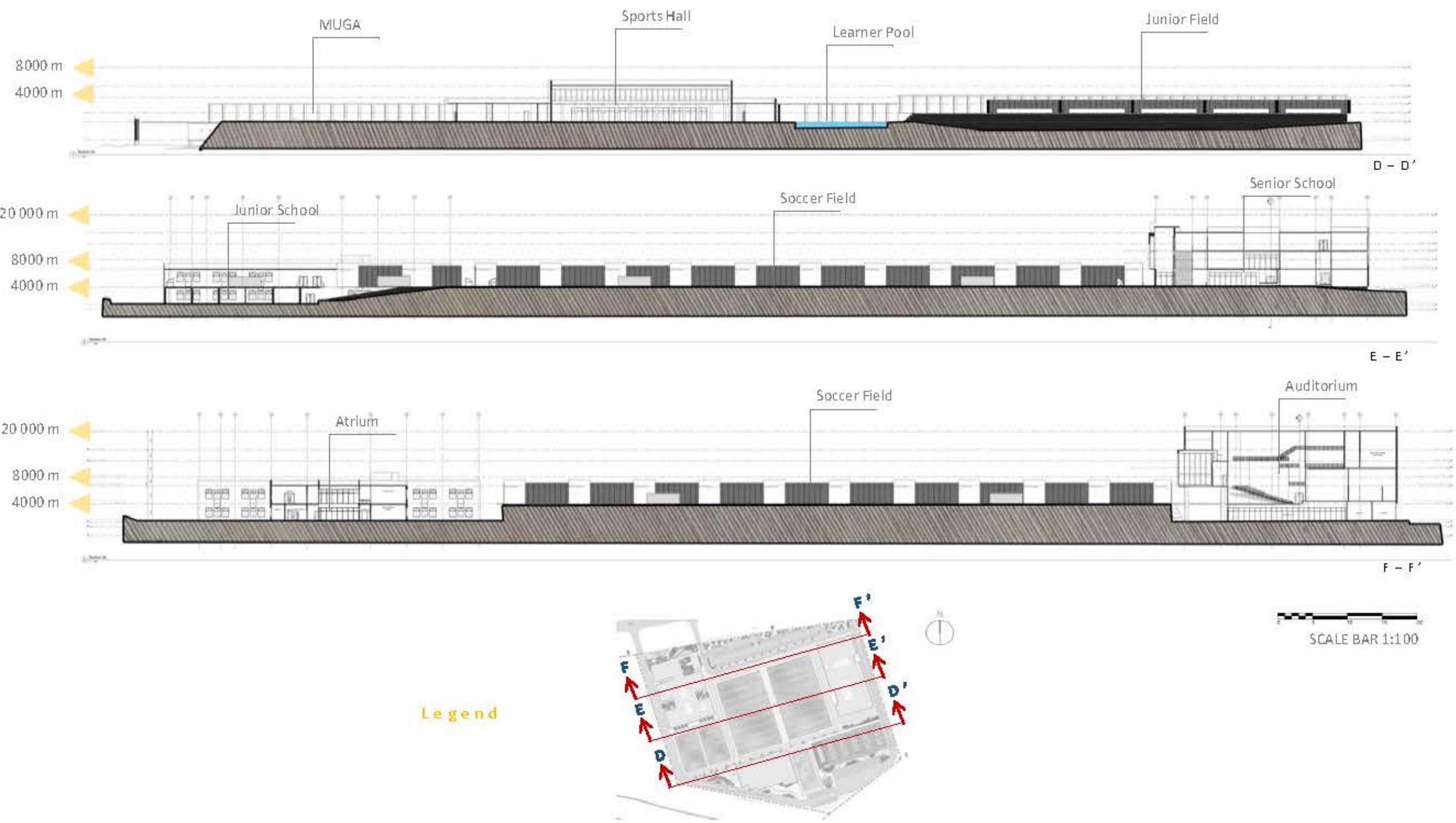


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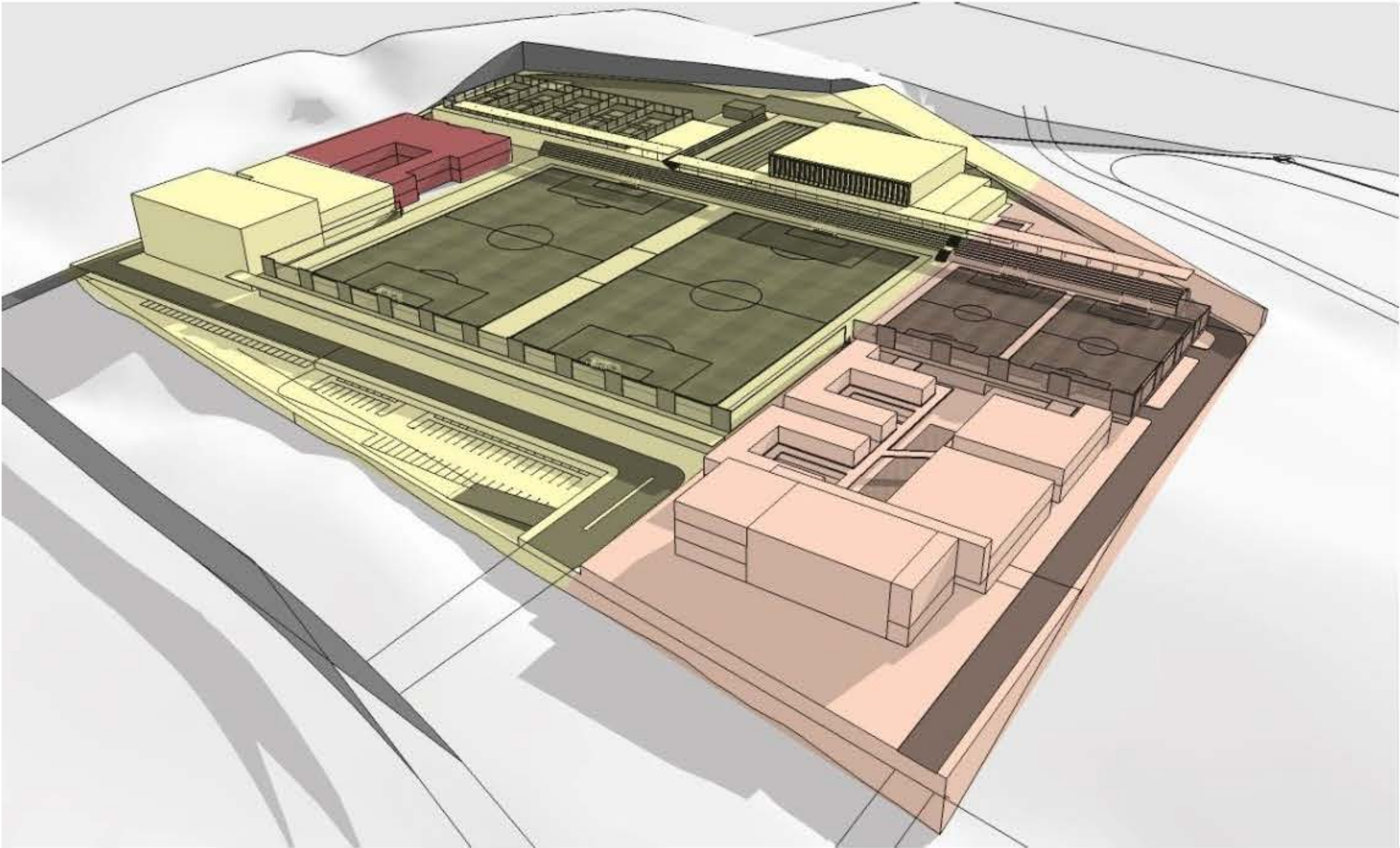


Legend



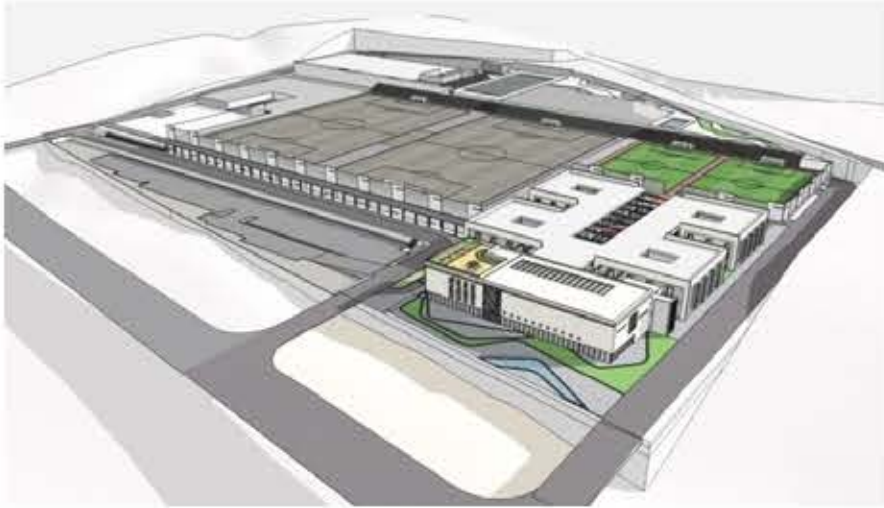


- **Phase 1** shall be Junior School
- Junior School will constitute about 30% of the total build up area.
- Phase 1 will provide play area and learner pool for their activities.
- **Phase 2** shall cover part of the Senior school as well as all the sports facilities for the school and constitute the bulk of the build up area.
- **Phase 3** shall be the last part of the senior school to complete the development of the school.



Legend

- Phase 1 { Expected completion by 2019 }
- Phase 2 { Expected completion by 2021 }
- Phase 3 { Expected completion by 2023 }



Phase 1 (2019)

Junior School / Atrium	5 428 sqm
Junior Fields	3 000 sqm
Learner Pool	187 sqm

Total building Area :	5 448 sqm
Land Area :	17 176 sqm



Phase 2 (2021)

MUGA 2	1 776 sqm
Soccer Fields	11 000 sqm
Cricket Field	200 sqm
Swimming Pool	1 682 sqm
Sports Hall & changing room	2 480 sqm
MUGA court	1 776 sqm
Auditorium & Admin	2 908 sqm
Senior Dining	387 sqm

Total building Area :	5 775 sqm
Land Area :	42 517 sqm



Phase 3 (2023)

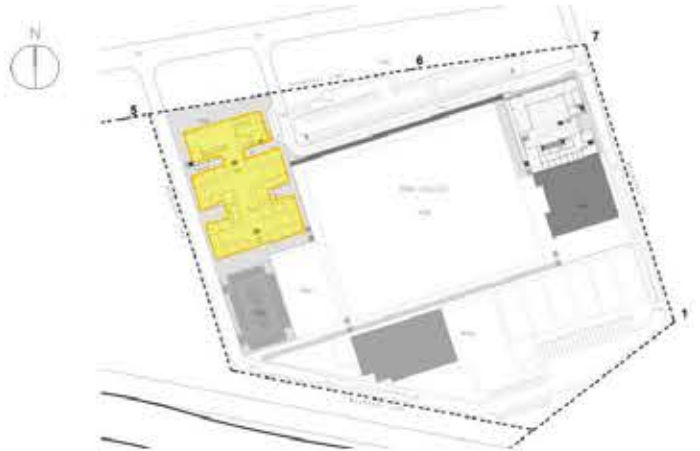
Senior School	4 357 sqm
---------------	-----------

Total building Area :	4 357 sqm
Land Area :	4 467 sqm

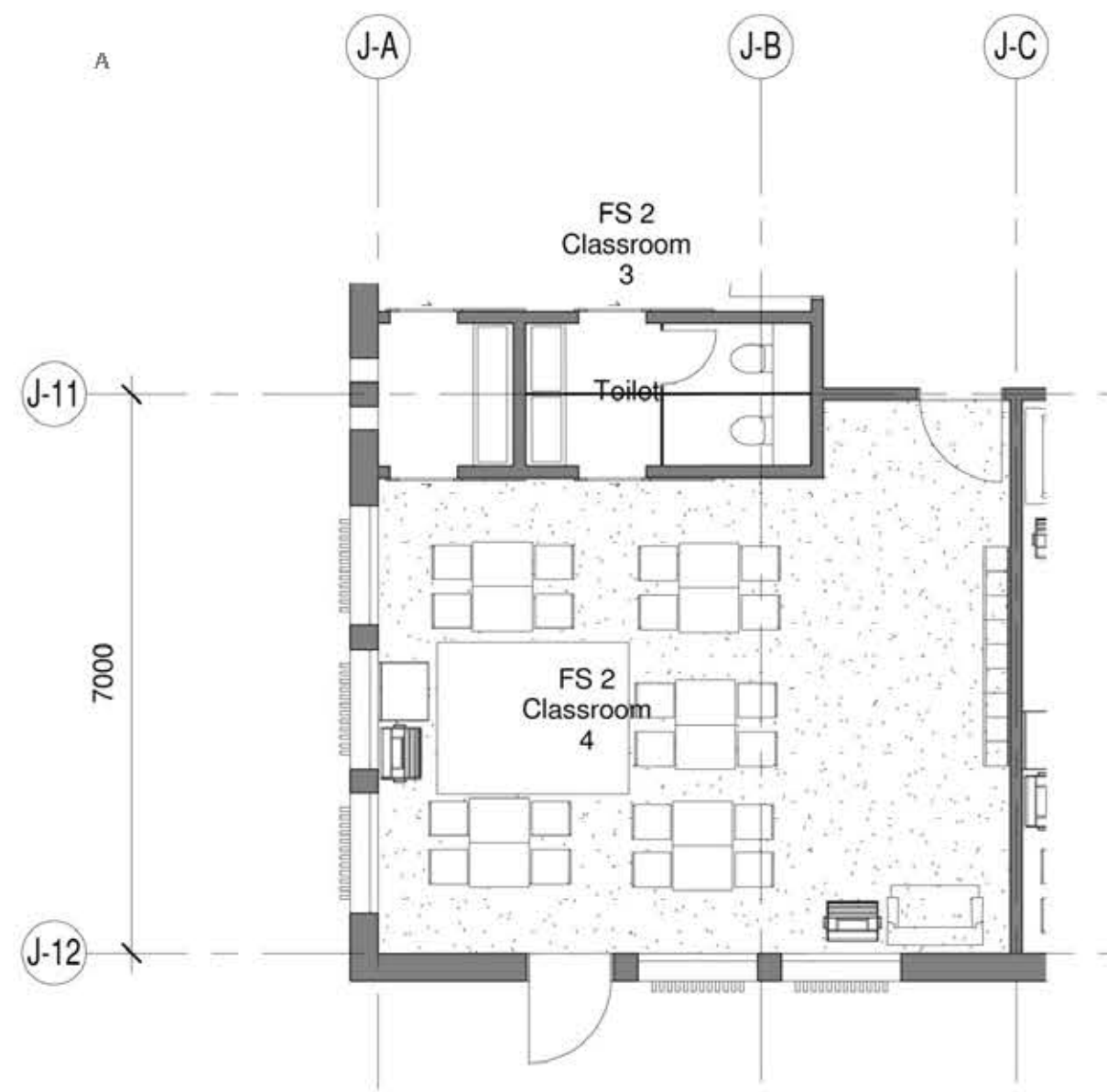
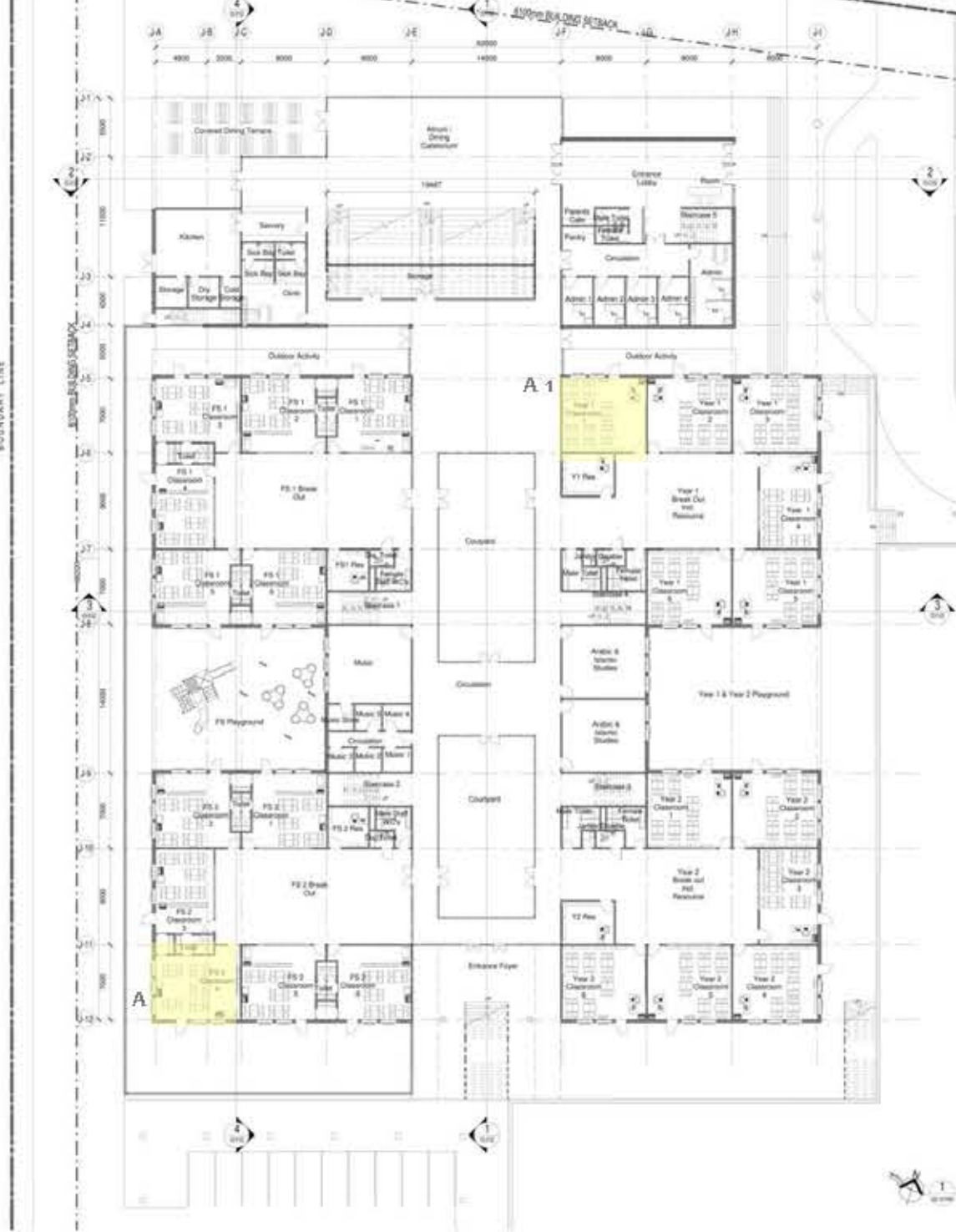
JUNIOR
SCHOOL

06

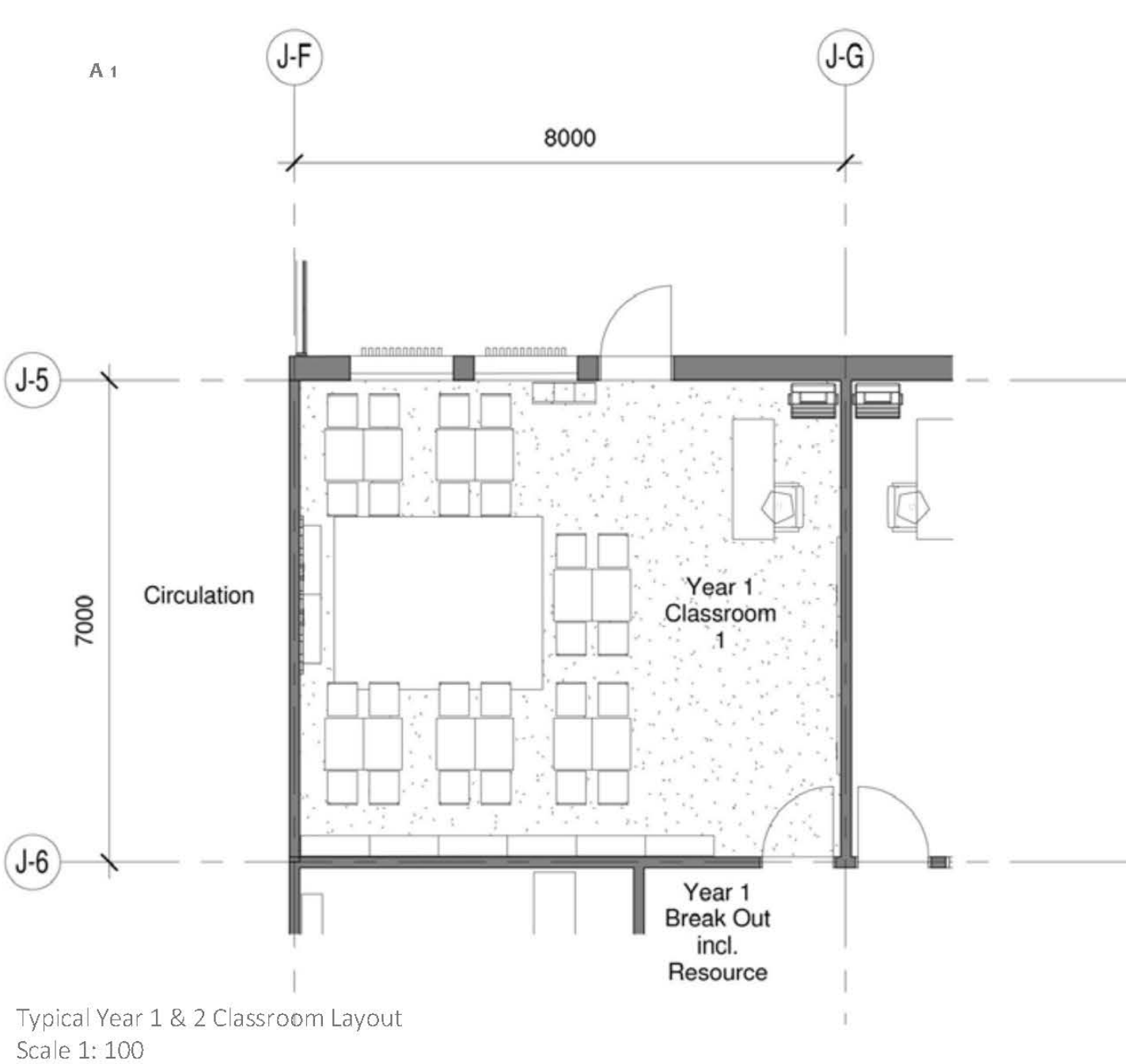




- Legend**
- | | |
|------------------------------|----------------------------------|
| 1. Atrium | 16. Courtyard |
| 2. Servery | 17. Amphitheatre |
| 3. Kitchen | 18. Terrace |
| 4. Parents Cafe | 19. Music Practice Rooms |
| 5. Clinic | 20. FS1 Break Out incl. Resource |
| 6. WC | 21. FS2 Break Out incl. Resource |
| 7. Admin | 22. Year 1 Break Out |
| 8. Music Classroom | 23. Year 2 Break Out |
| 9. Staff WC | 24. Lobby |
| 10. FS 1 Classrooms | 25. Furniture Store |
| 11. FS 2 Classrooms | 26. General Store |
| 12. Year 1 Classrooms | 27. Covered Dining Terrace |
| 13. Year 2 Classrooms | 28. Playground |
| 14. Arabic & Islamic Studies | 29. Reception |
| 15. Resource Room | 30. Green Area |



Typical FS1 & FS2 Classroom Layout
Scale 1: 100



Typical Year 1 & 2 Classroom Layout
Scale 1: 100



Typical FS 1 & FS 2 Classroom Axonometric view



Typical Year 1 & 2 Classroom Axonometric view



Legend

Outdoor learning areas

①



②



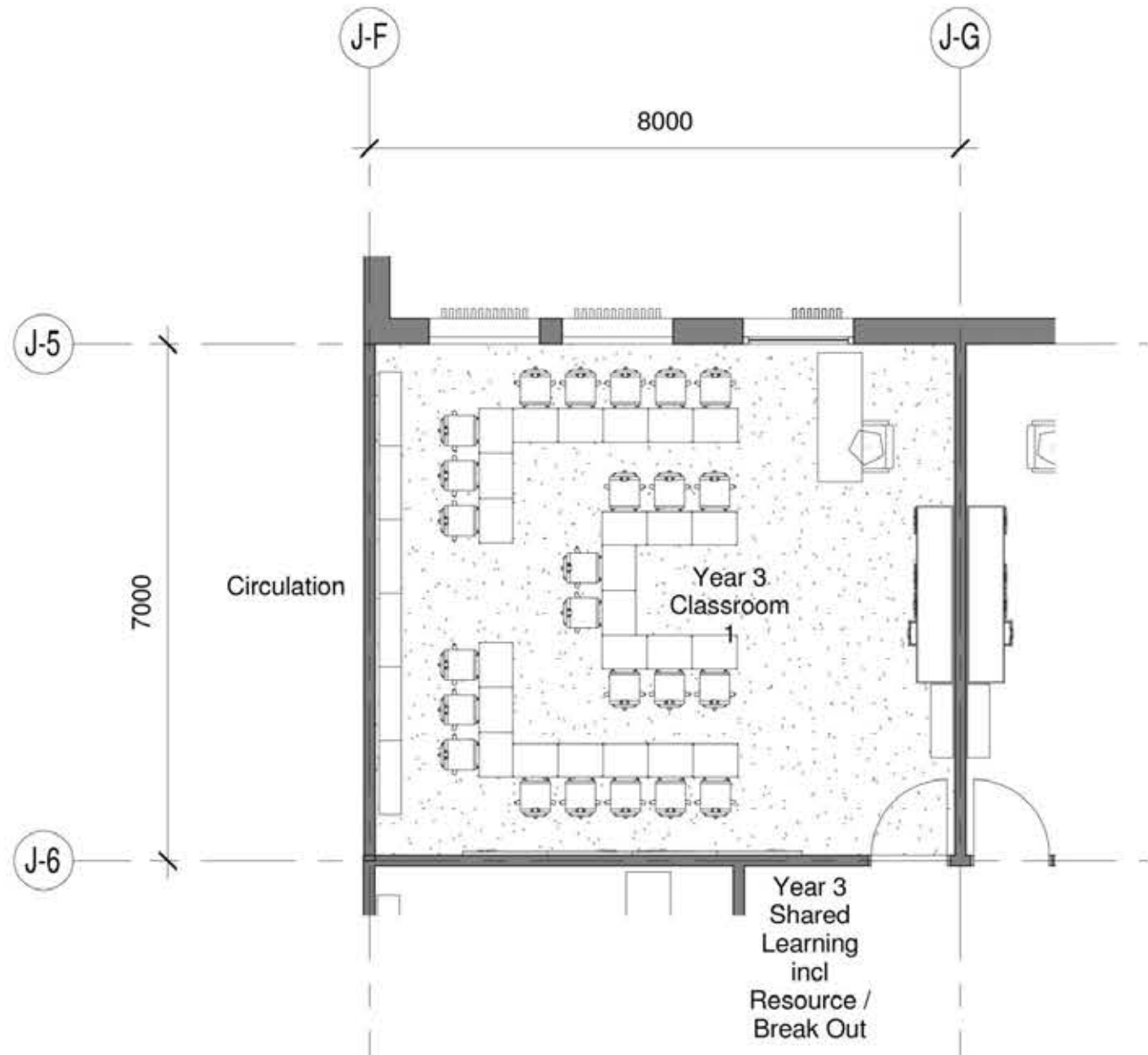
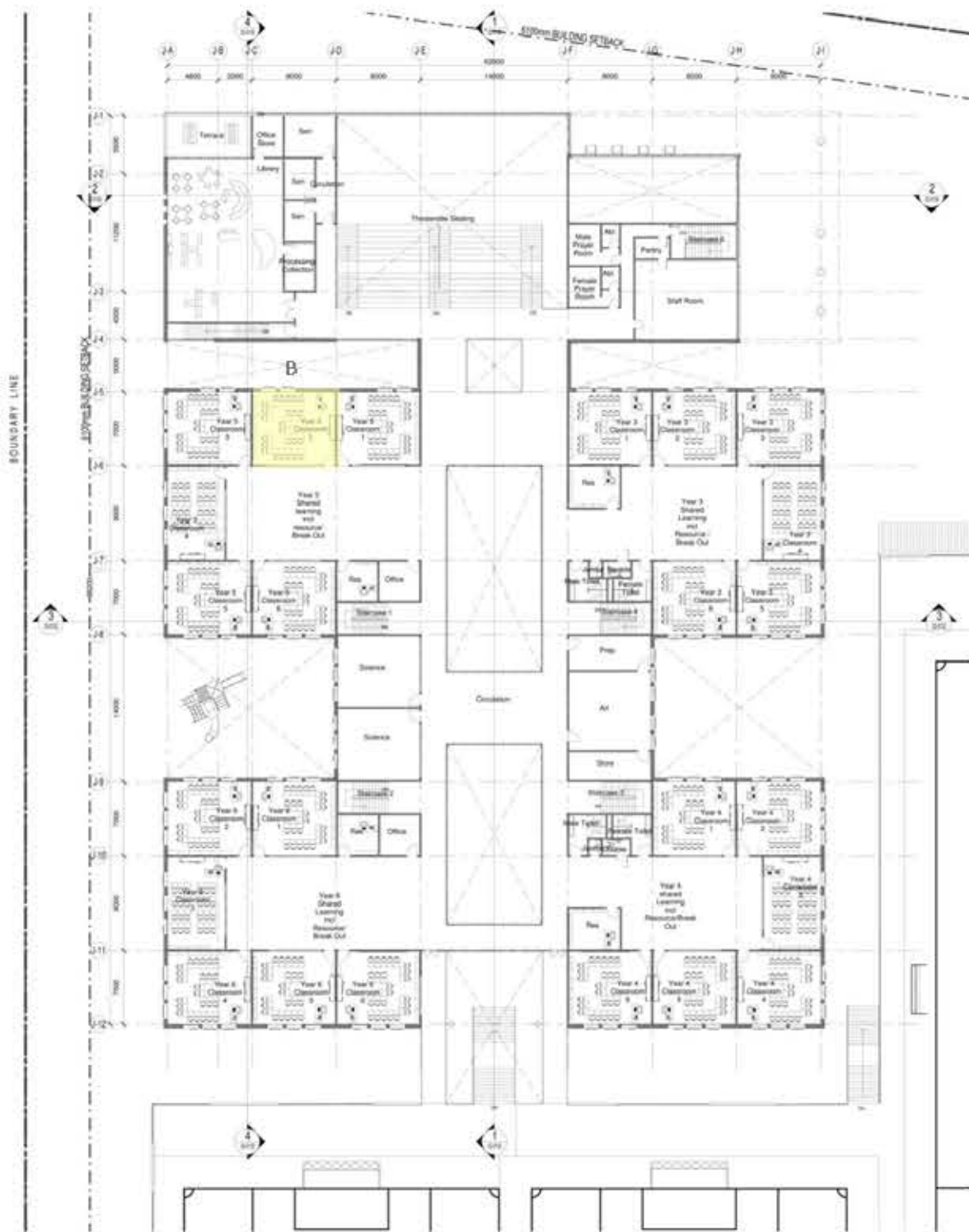
③



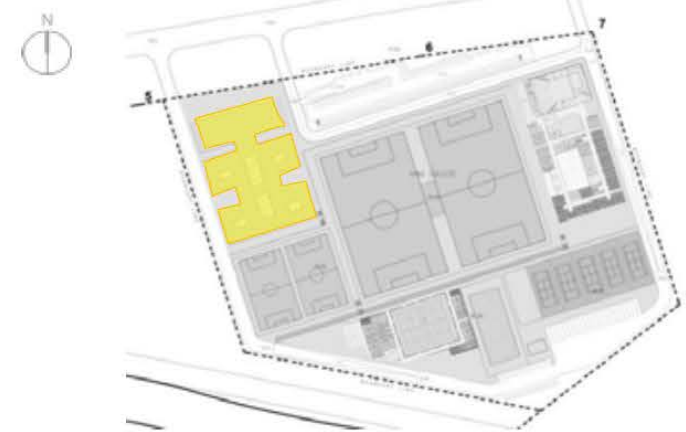
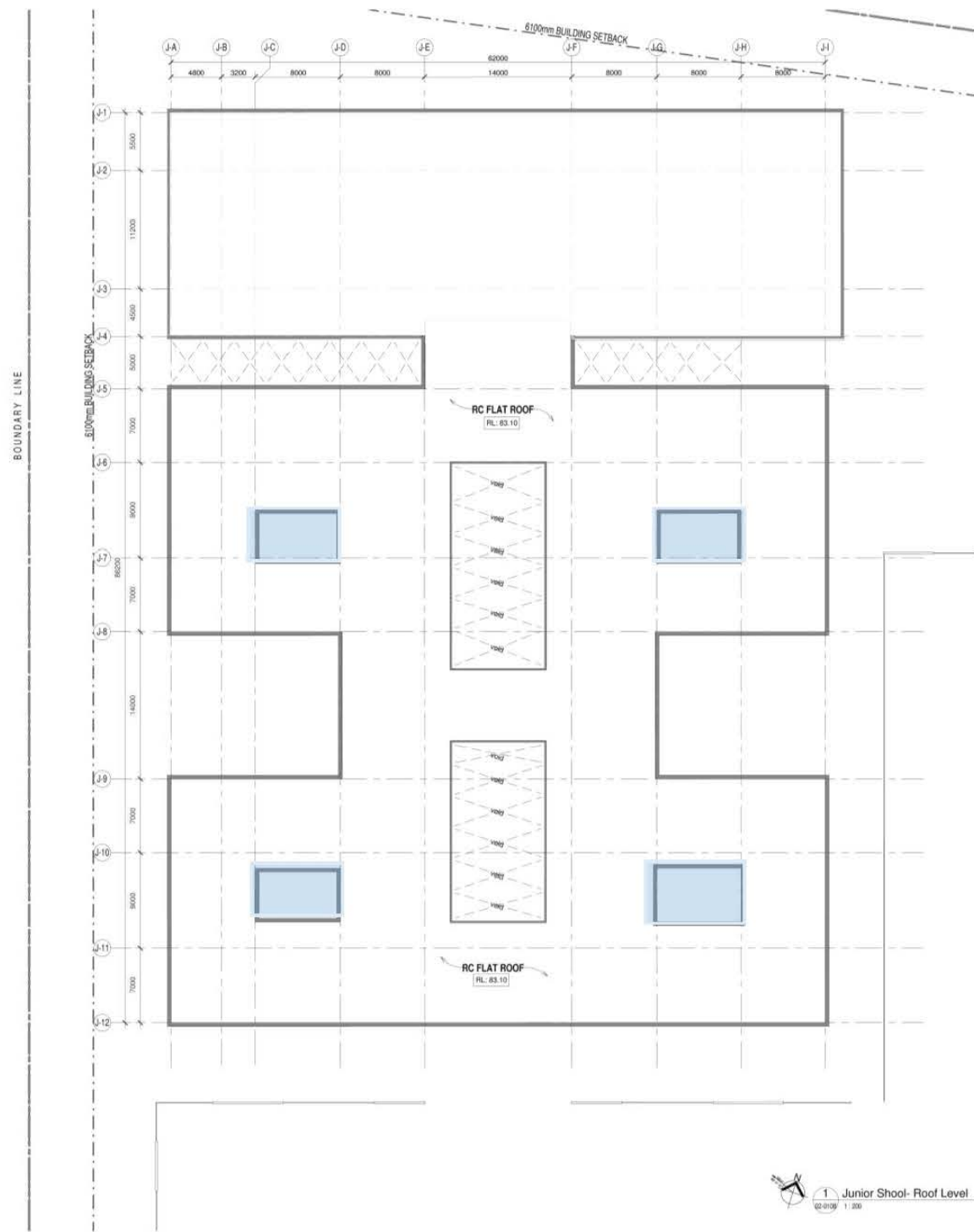


Legend

- | | |
|------------------------------|---|
| 1. Void above atrium | 16. Prep |
| 2. Staff Room | 17. Year 3 Shared Learning incl. Resource |
| 3. Staff's Pantry | 18. Year 4 Shared Learning incl. Resource |
| 4. Void above Courtyard | 19. Year 5 Shared Learning incl. Resource |
| 5. Library | 20. Year 6 Shared Learning incl. Resource |
| 6. WC's | 21. Store |
| 7. SEN | 22. Library Terrace |
| 8. Art Lab | 23. SEN Office |
| 9. Resource Room | 24. SEN Small Group Rooms |
| 10. Year 6 Classrooms | 25. Void Above Lobby |
| 11. Year 5 Classrooms | 26. Prayer Rooms (M&F) |
| 12. Year 3 Classrooms | |
| 13. Year 4 Classrooms | |
| 14. Science Labs | |
| 15. Leader of Primary Office | |



Typical Year 3, 4, 5 & 6 Classroom Layout
Scale 1: 100



Legend

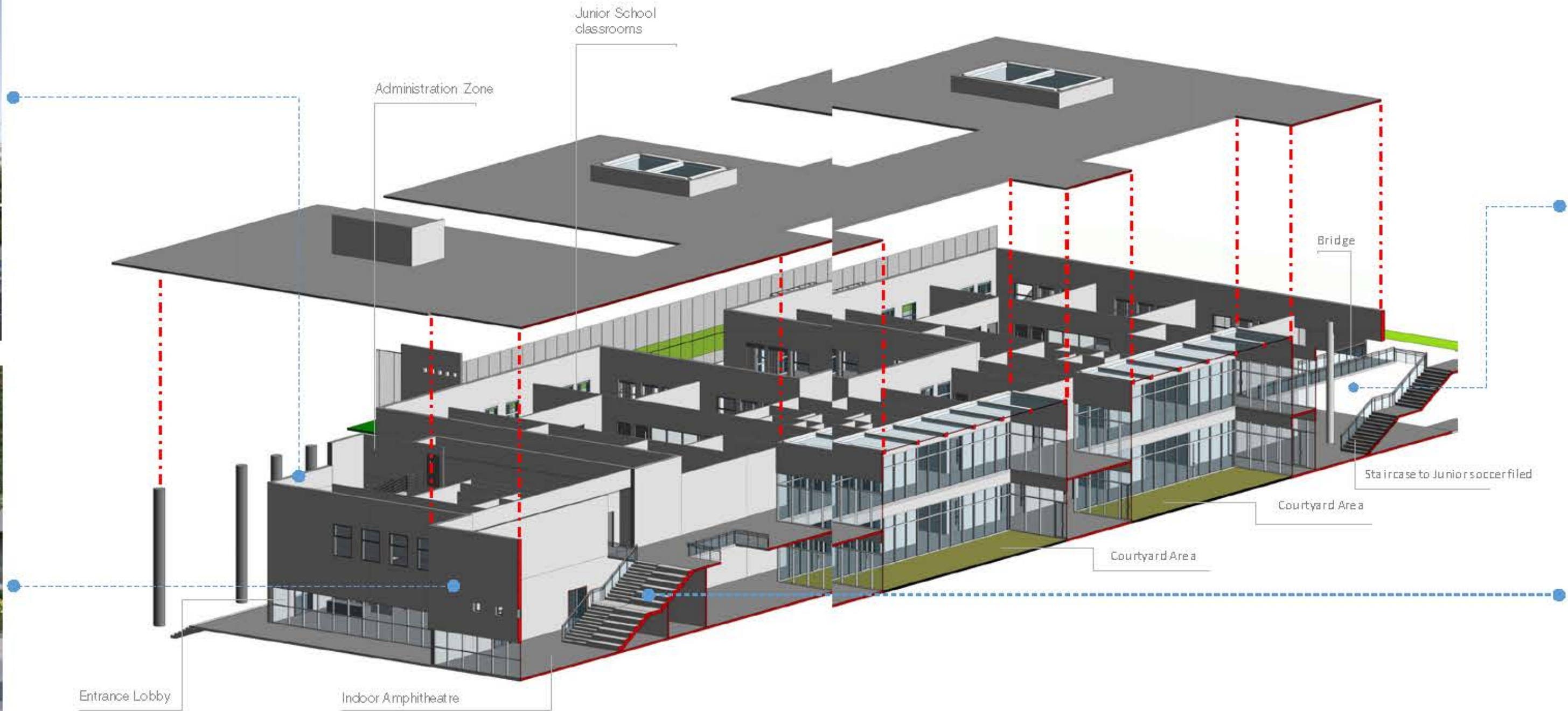
- Roof Garden
- Roof



The grand entrance to the Junior School building welcomes the visitors



The main entrance plaza



The Linear Garden in between the Junior School and Junior soccer field



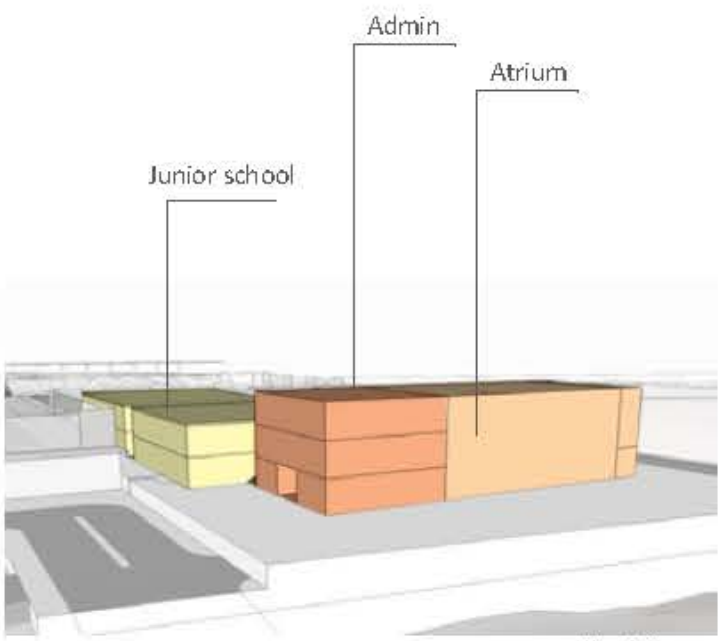
The grand indoor Amphitheatre that provides space for various kind of activities



Junior school window detail



Atrium small windows



Key Adjacent



Perspective View Sketch

Artist Impression for Junior School

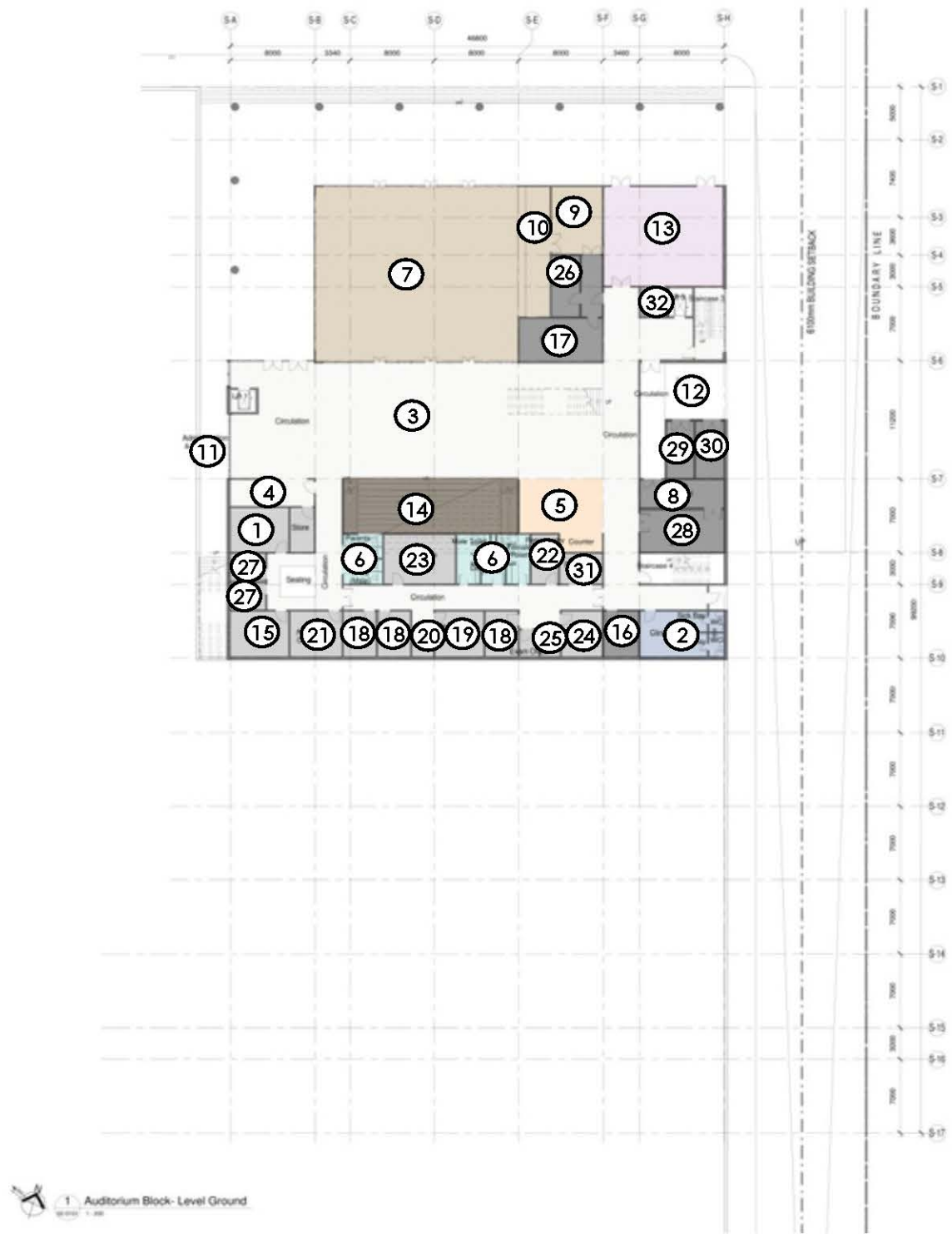




SENIOR
SCHOOL

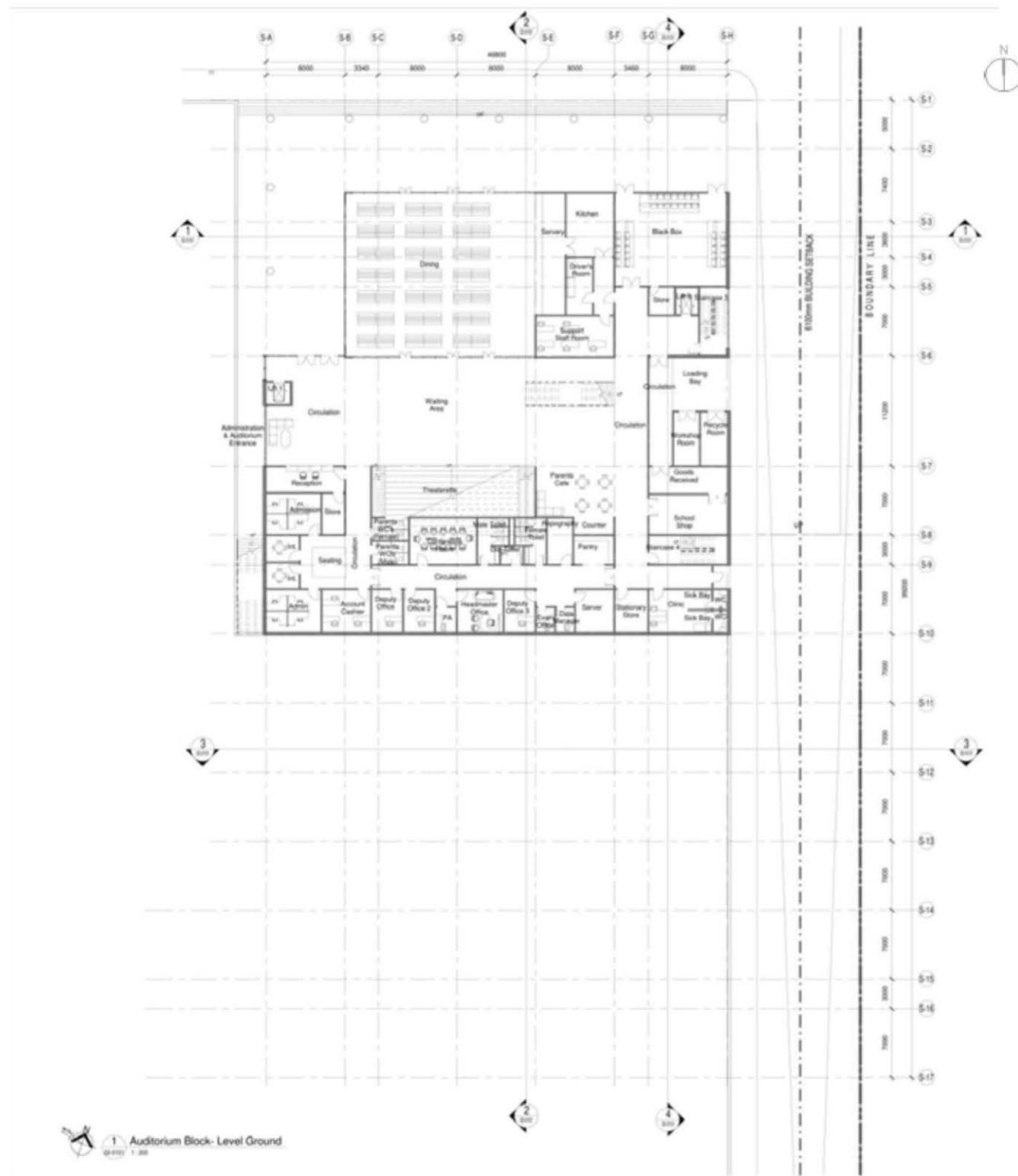
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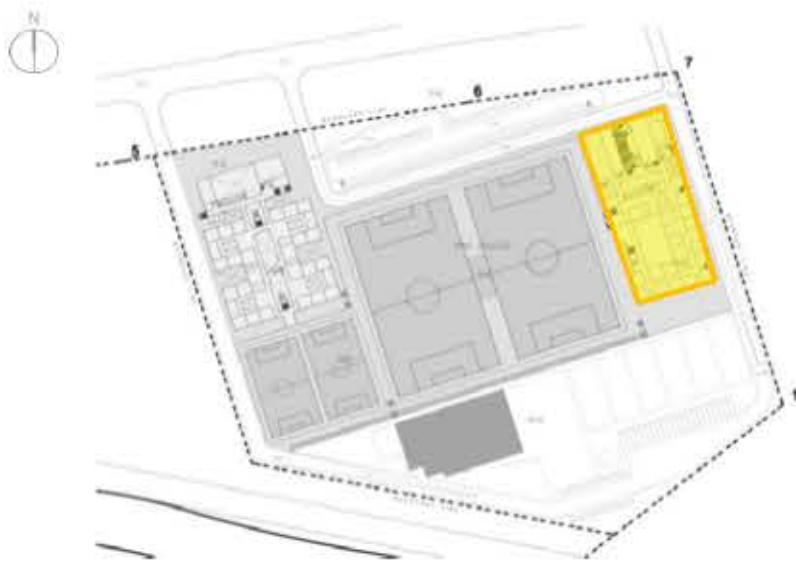




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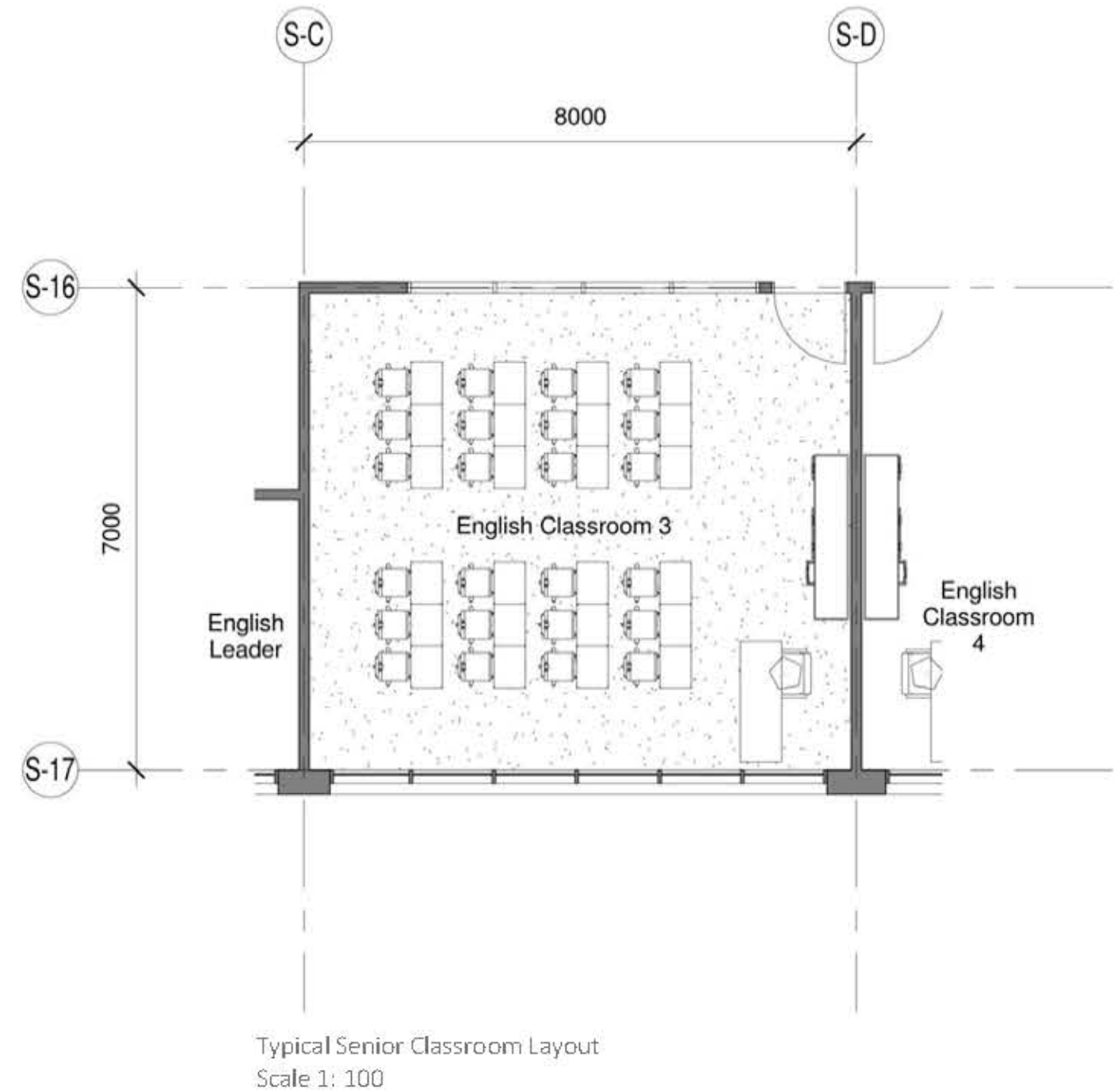
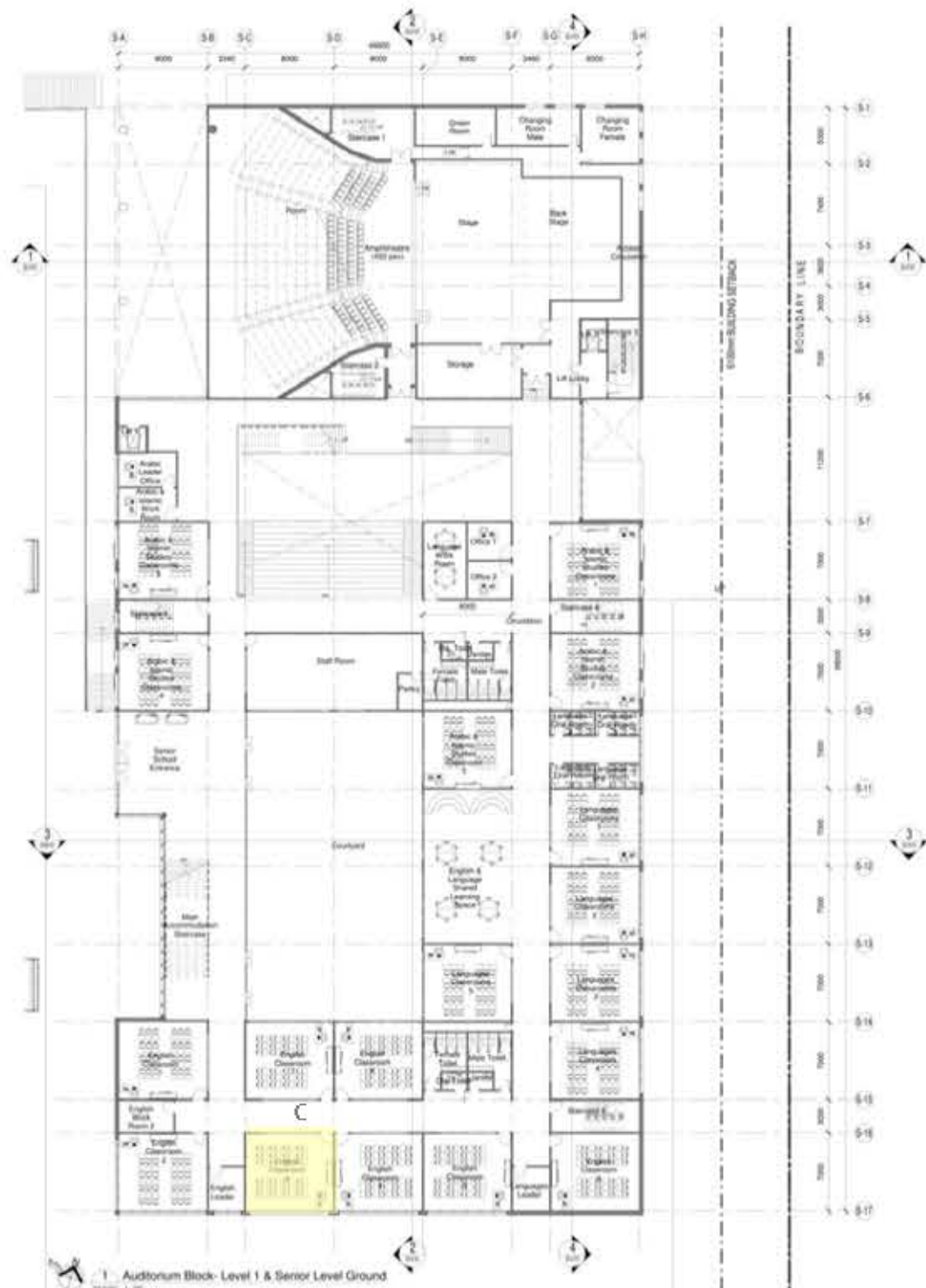
- | | |
|---------------------------|--------------------------|
| 1. Admission Room | 16. Stationery Store |
| 2. Clinic | 17. Support Staff Room |
| 3. Waiting Area | 18. Deputy Offices |
| 4. Reception | 19. Headmaster's PA room |
| 5. Parent's Cafe | 20. Headmaster's Room |
| 6. WC | 21. Account Room |
| 7. Dining Area | 22. Reprography |
| 8. Goods Receiving Area | 23. Conference Room |
| 9. Kitchen | 24. Server Room |
| 10. Servery Area | 25. Data Room |
| 11. Lower Ground Entrance | 26. Driver |
| 12. Loading Bay | 27. Interview Room |
| 13. Black Box | 28. School Shop |
| 14. Amphitheatre | 29. Workshop Room |
| 15. Admin Room | 30. Recycle Bin |
| | 31. Pantry |
| | 32. Store |

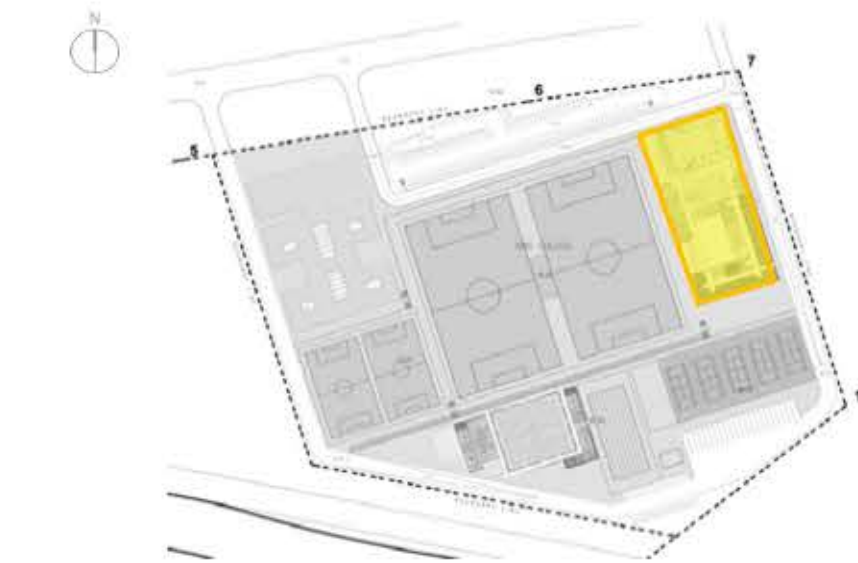
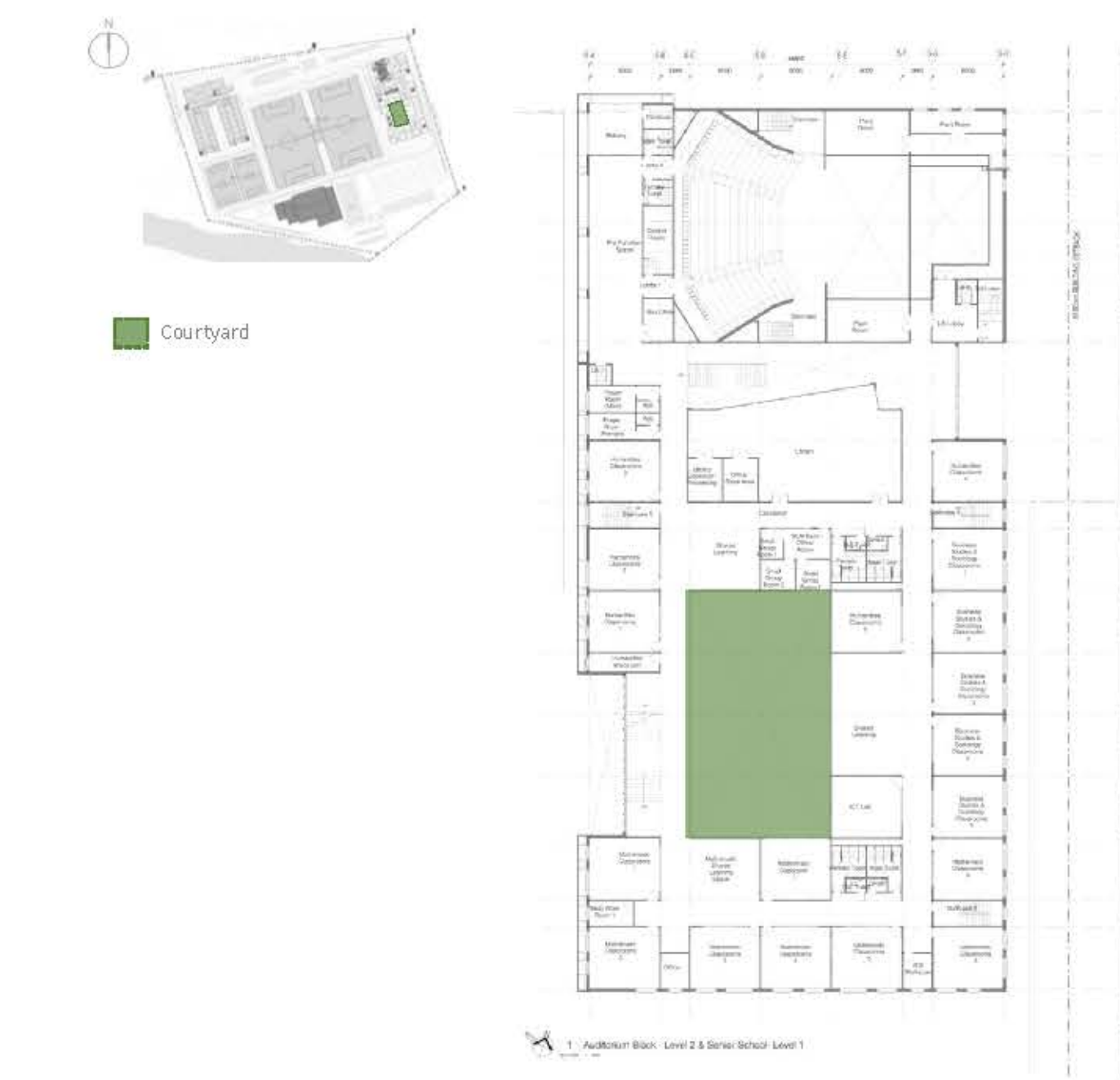




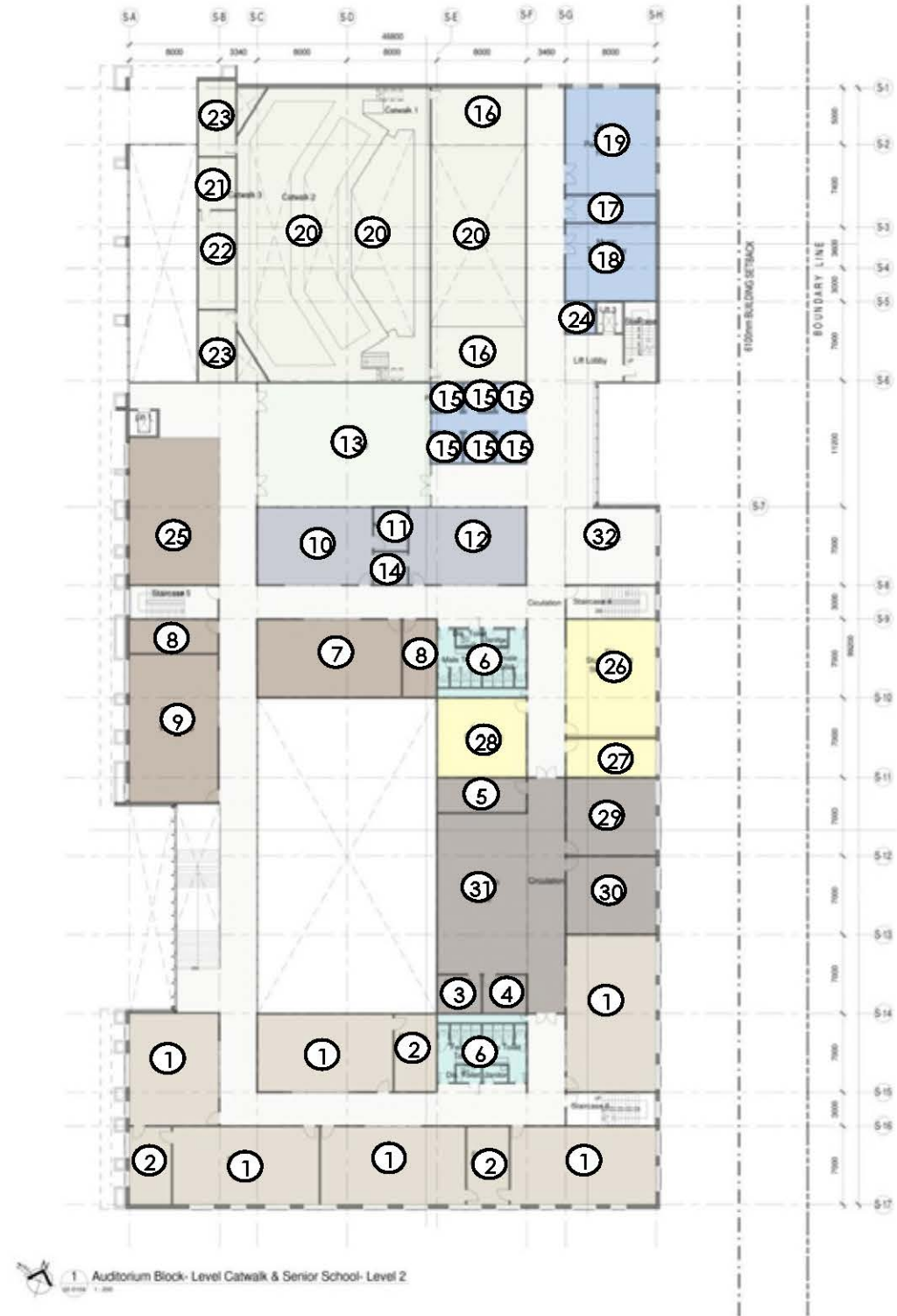
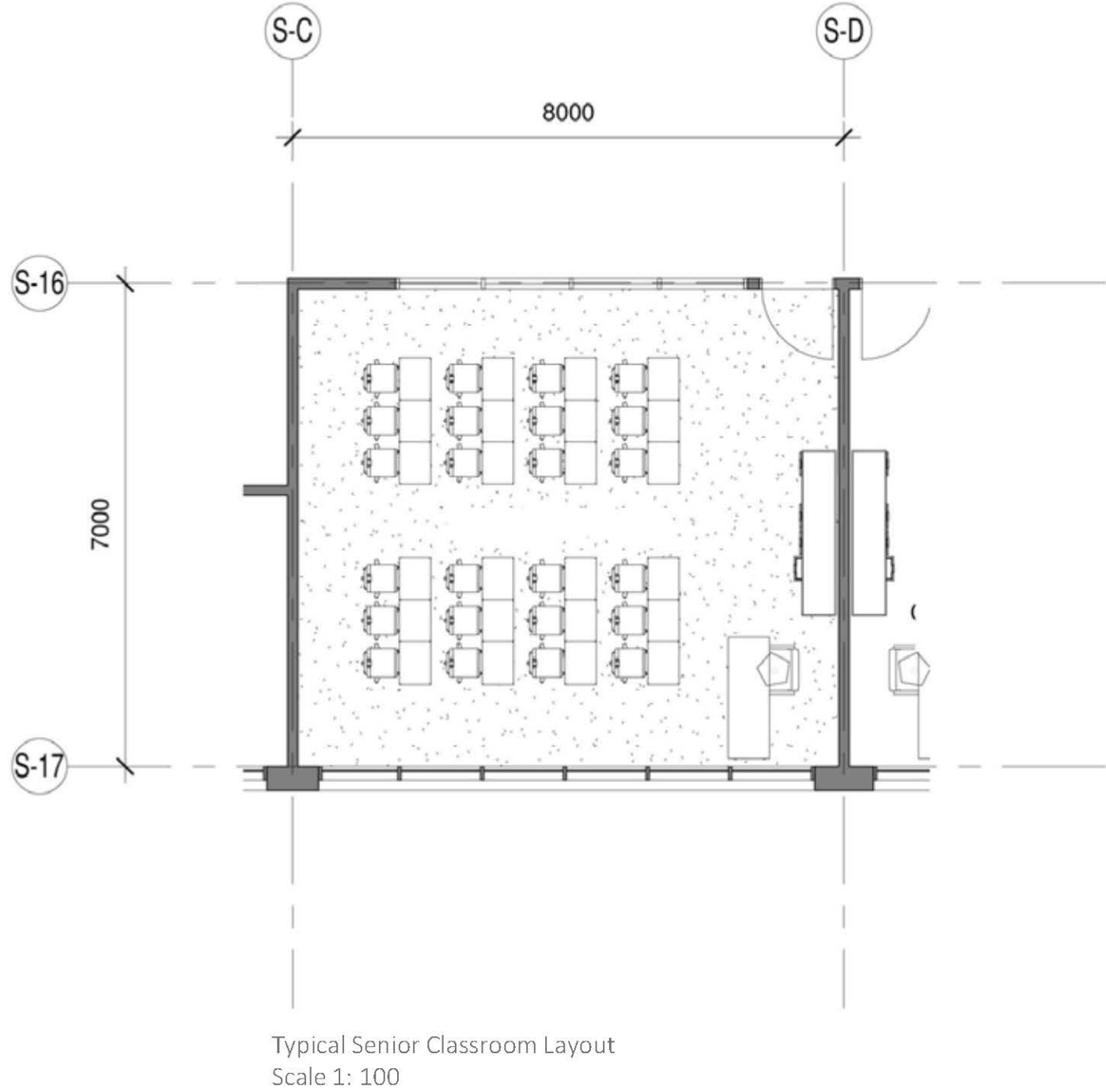
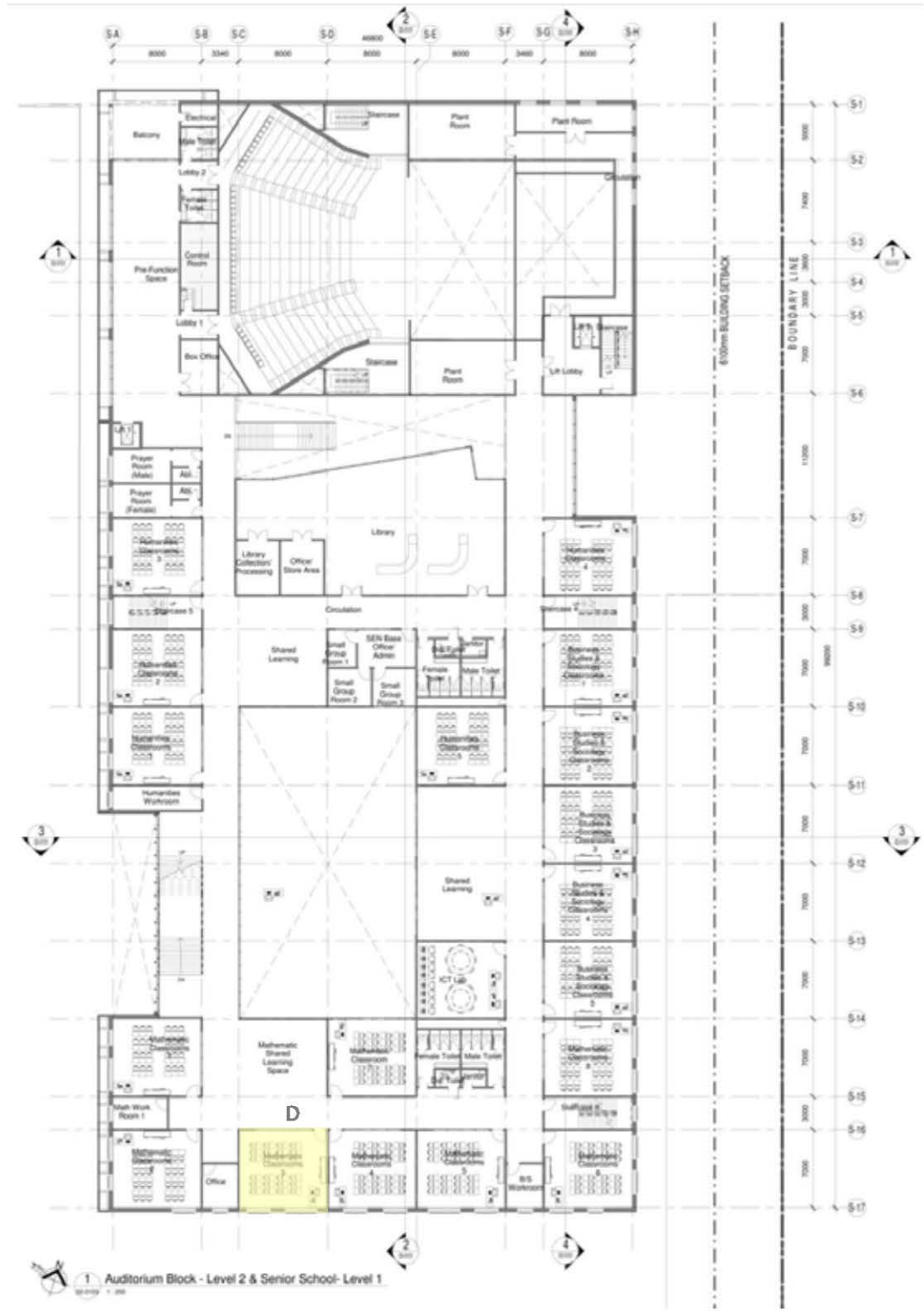
Legend

- | | |
|--|----------------------------------|
| 1. English Classrooms | 16. Changing Room & WC's |
| 2. Language Classrooms | 17. Office (English Classroom) |
| 3. Languages & English Shared Learning | 18. Language Leader Office |
| 4. Courtyard | 19. Auditorium |
| 5. WC's | 20. Main Accommodation Staircase |
| 6. Office | 21. English Workroom |
| 7. Arabic & Islamic Studies Classroom | 22. Language Workroom |
| 8. Languages Oral - Rooms | |
| 9. Senior School Entrance | |
| 10. Arabic Staff & Leader's Office | |
| 11. Staff Work Room | |
| 12. Staff Pantry | |
| 13. Green Room | |
| 14. Backstage | |
| 15. Stage | |

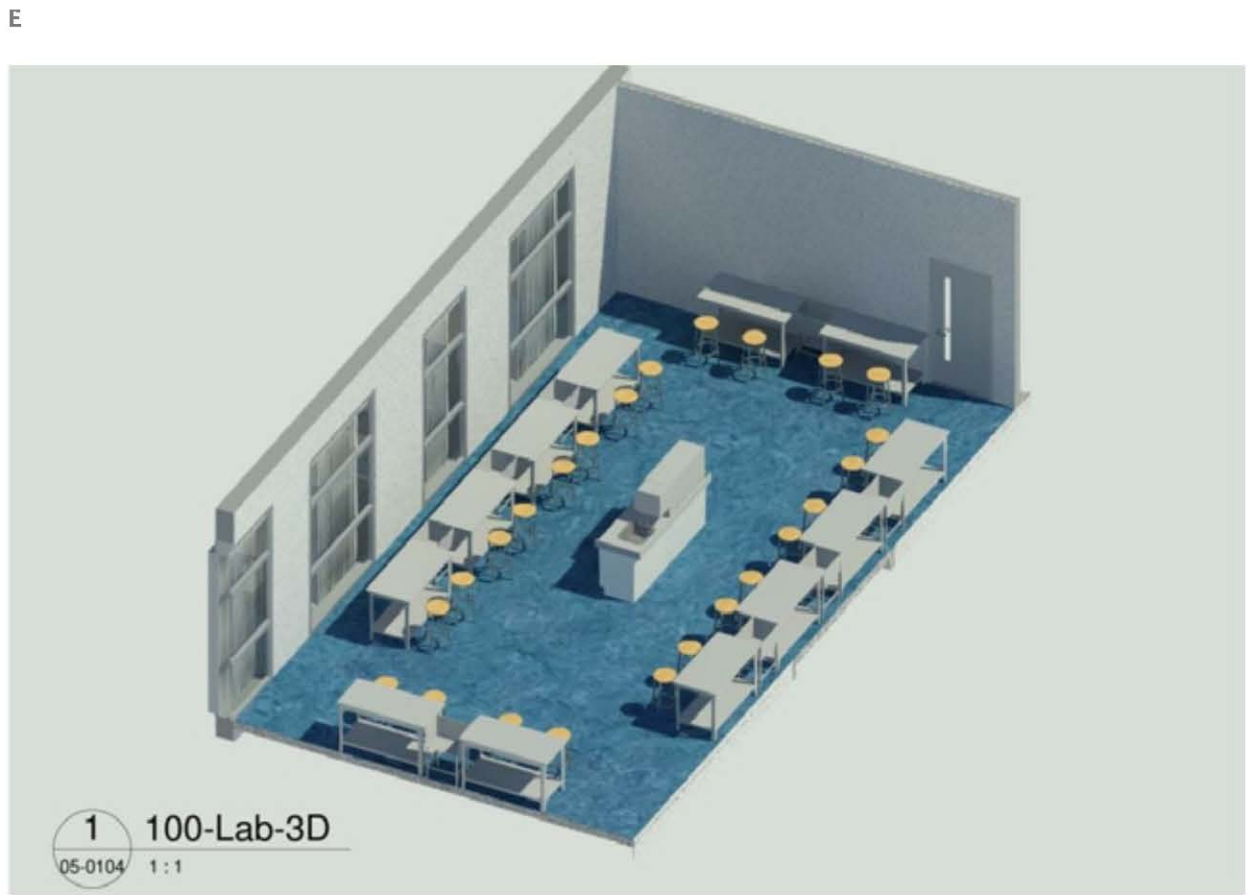
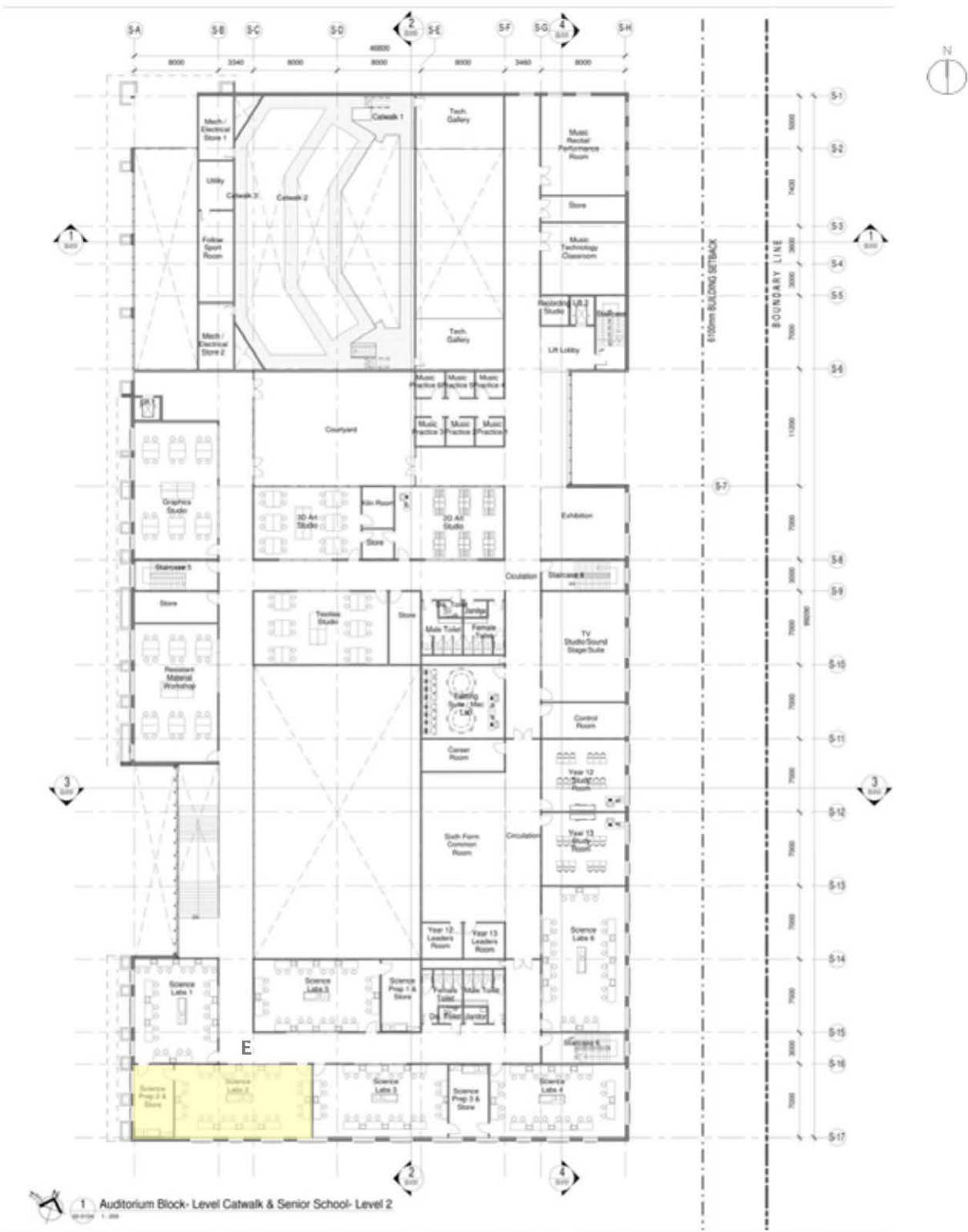




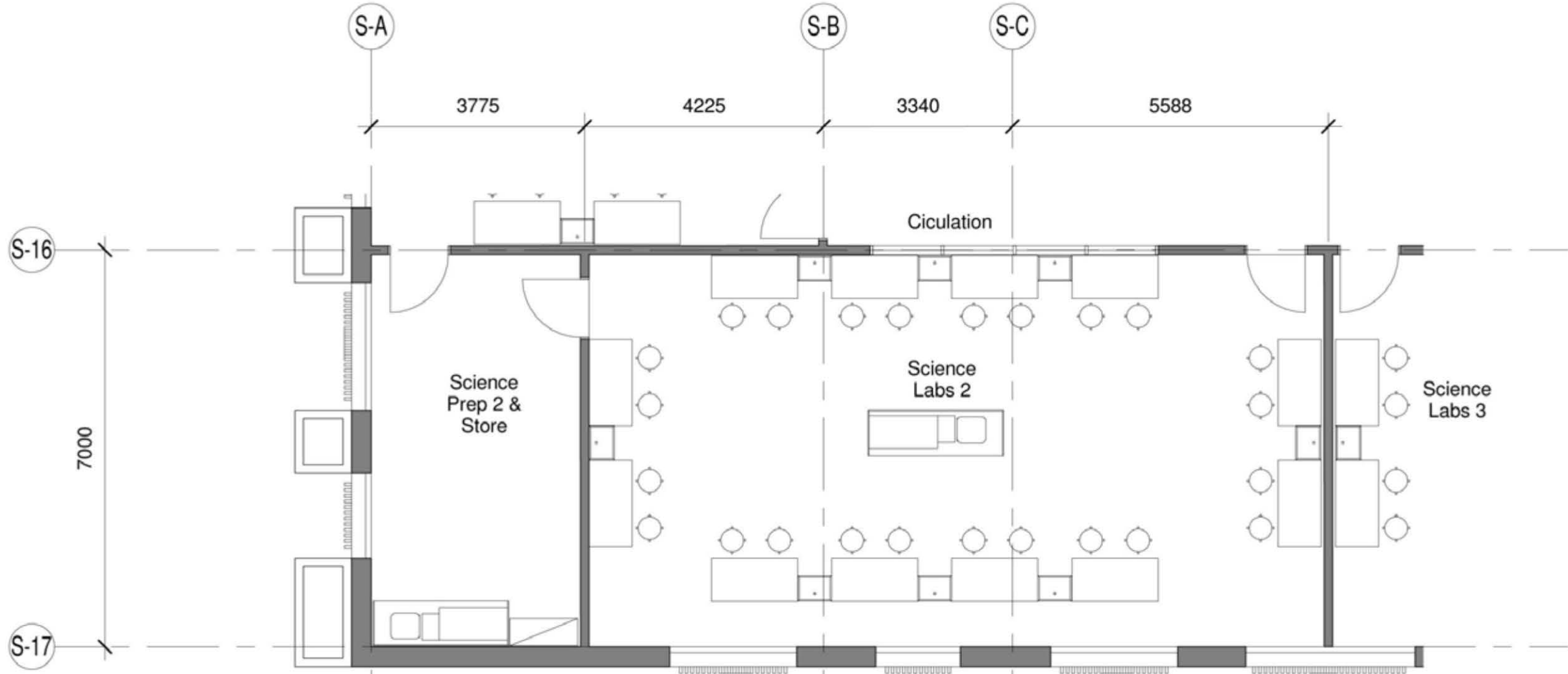
- Legend**
- | | |
|--|-------------------------------------|
| 1. Mathematics Classrooms | 16. Library Collection / Processing |
| 2. Business Studies & Sociology Classrooms | 17. Library Office / Store |
| 3. Shared Learning | 18. Small Group Rooms |
| 4. Void above courtyard | 19. Pre-Function Space |
| 5. SEN Base Office | 20. Main Accommodation Staircase |
| 6. WC | 21. ICT Lab |
| 7. Humanities Classrooms | 22. Math Work Room |
| 8. Prayer Room | 23. Office |
| 9. Plant Room / M&E | 24. B/S Workroom |
| 10. Library | |
| 11. Control Room | |
| 12. Elect. Room | |
| 13. Void above Auditorium | |
| 14. Box Office | |
| 15. Void Above Stage | |



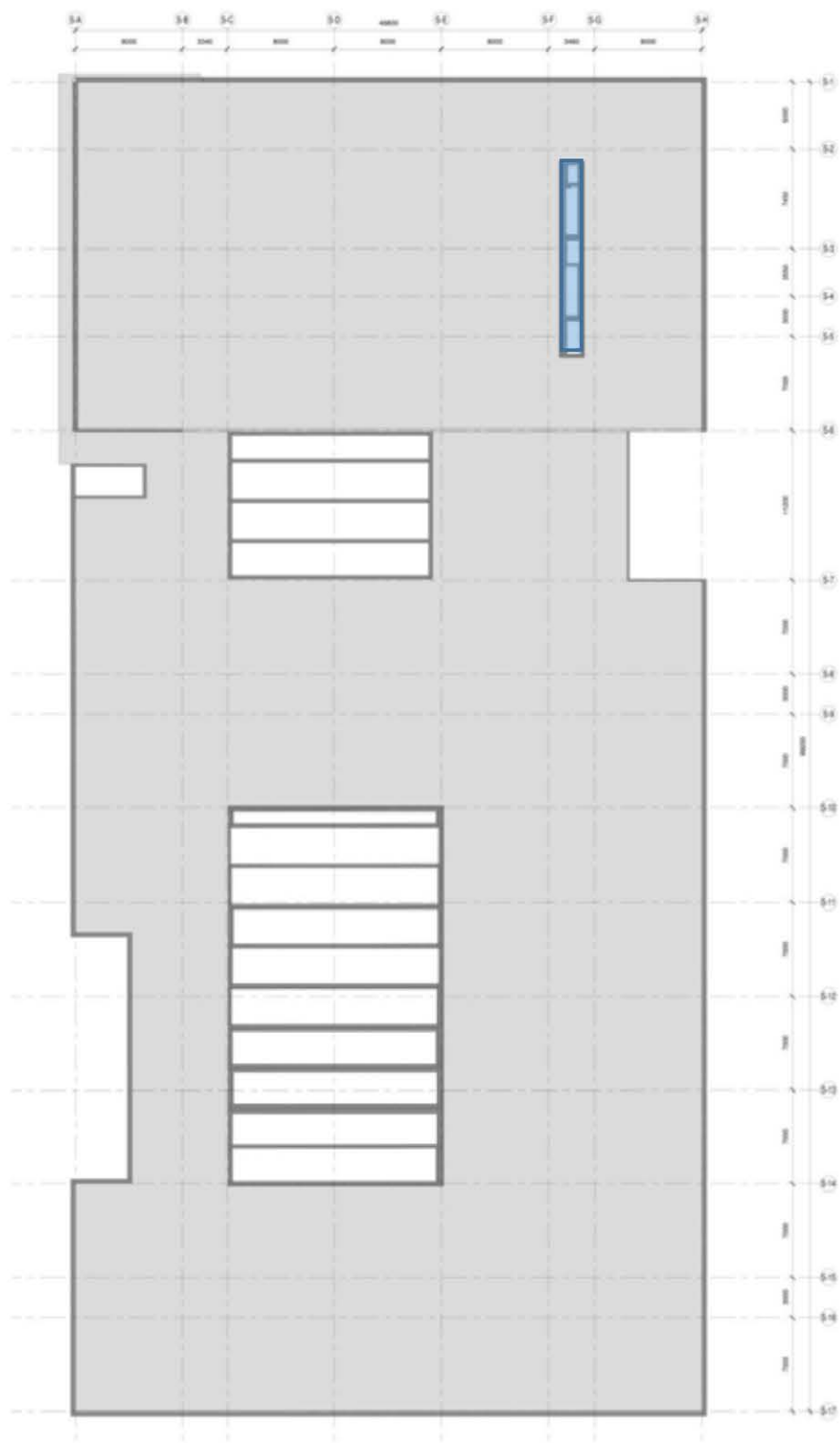
- Legend**
- | | |
|---------------------------------|-------------------------------------|
| 1. Science Labs | 16. Technical Gallery |
| 2. Science Prep | 17. Music Store |
| 3. Year 12 Leader's Room | 18. Music Technology Classroom |
| 4. Year 13 Leader's Room | 19. Music Recital/Performance Room |
| 5. Careers Room | 20. Amphitheatre Void |
| 6. WC | 21. Utility room |
| 7. Textile Studio | 22. Follow Spot Room |
| 8. Store | 23. Mechanical/Electrical Store |
| 9. Resistant Materials Workshop | 24. Recording Studio |
| 10. 2D Art Studio | 25. Graphics Studio |
| 11. Kiln Room | 26. TV Studio / Sound Stage / Suite |
| 12. 3D Art Studio | 27. Control Room |
| 13. Roof Garden | 28. Editing Suite / Mac Lab |
| 14. Store | 29. Year 12 Study Room |
| 15. Music Practice room | 30. Year 13 Study room |
| | 31. Sixth Form Common Room |
| | 32. Exhibition Area |



Typical Science Laboratory Axonometric view



Typical Senior Science Laboratory Layout
Scale 1: 100

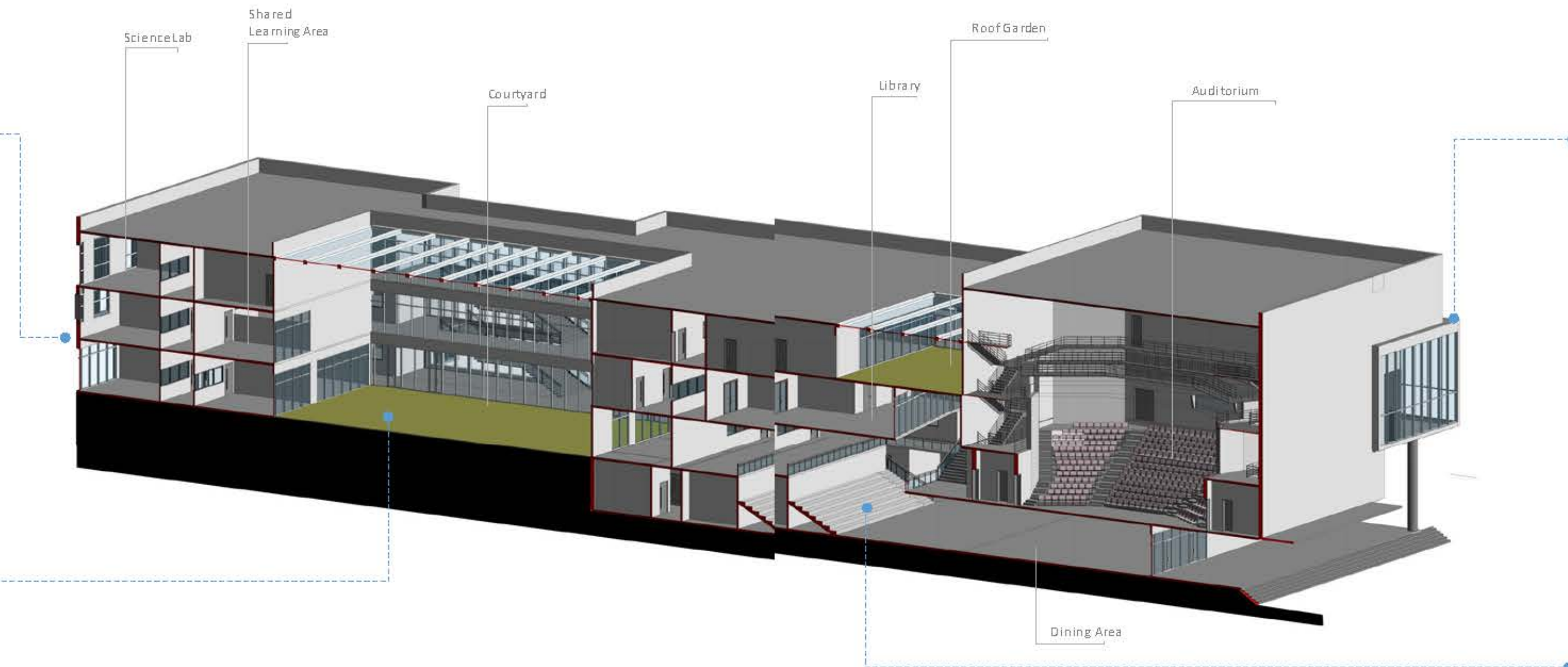




Wall Climbing activities on the rear side of the Senior School building



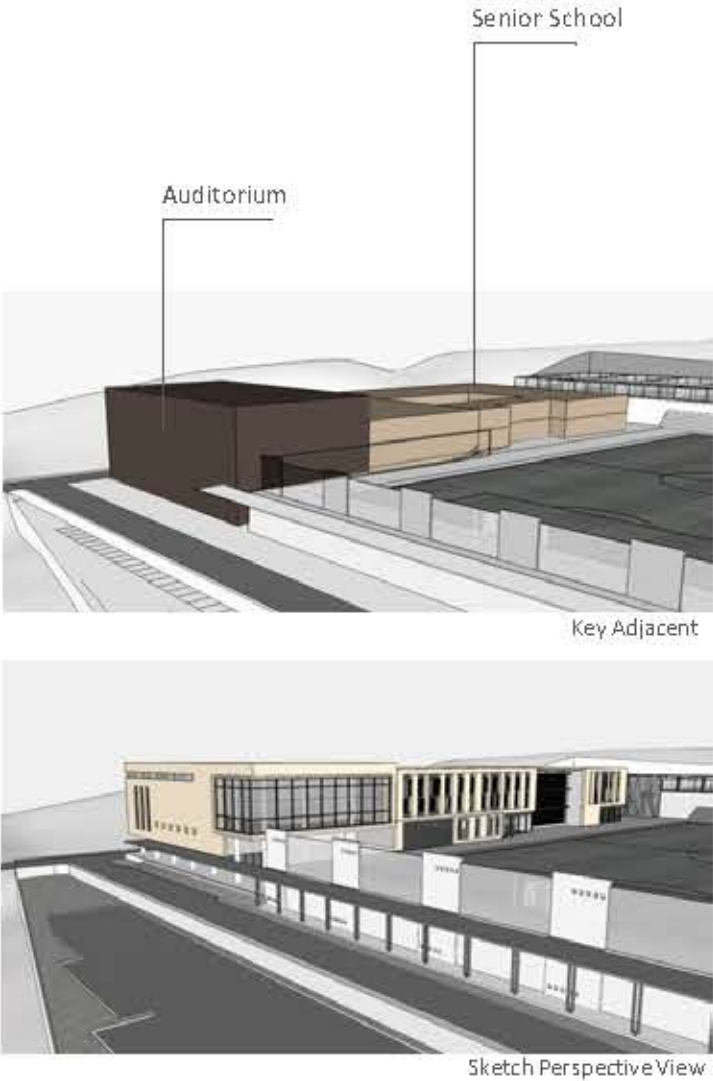
The Lush 'Oasis' Courtyard in the heart of Senior School Block



The grand entrance to the Auditorium Building welcomes the visitors



The senior school indoor Amphitheater underneath the floating library

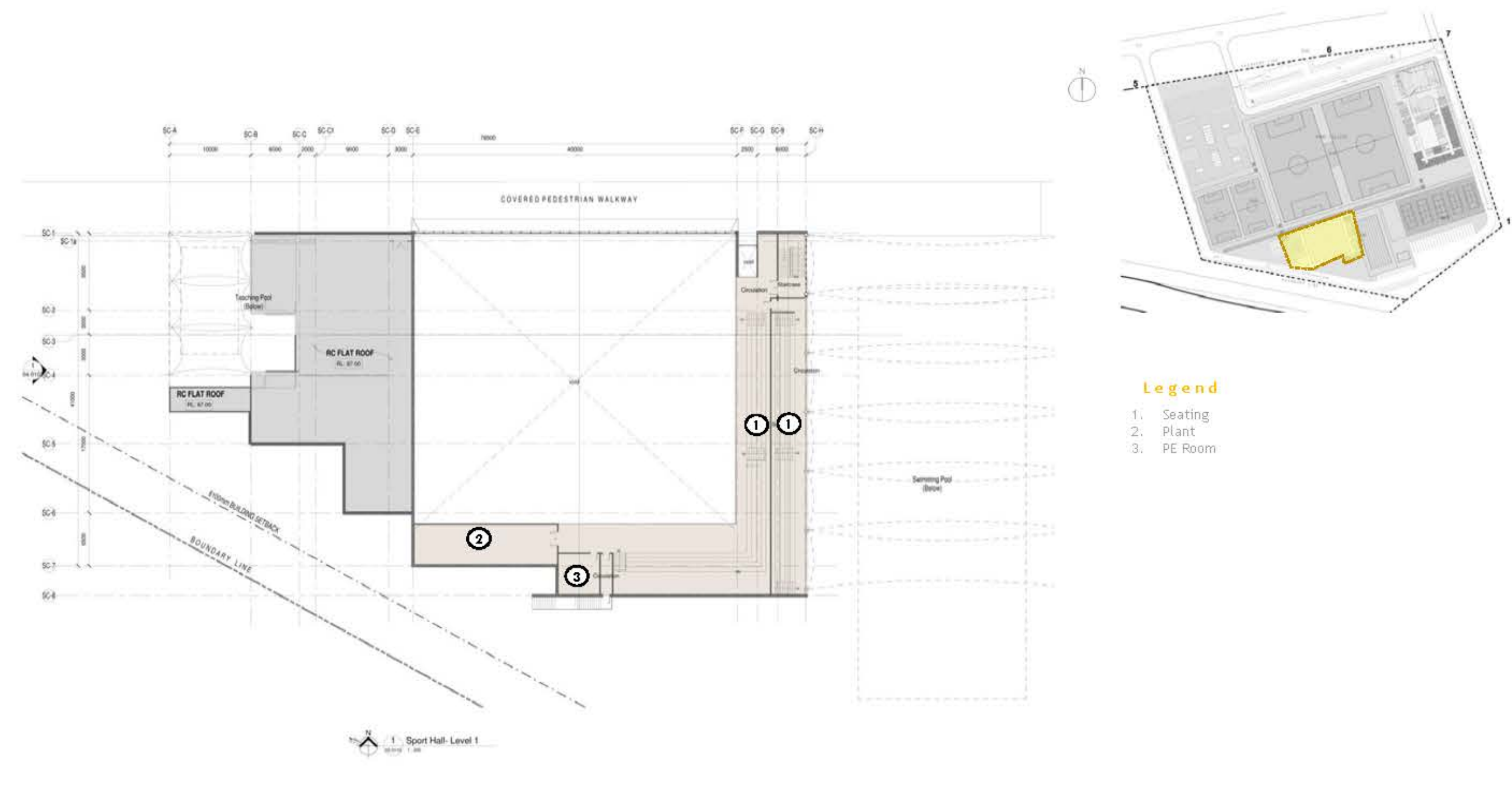
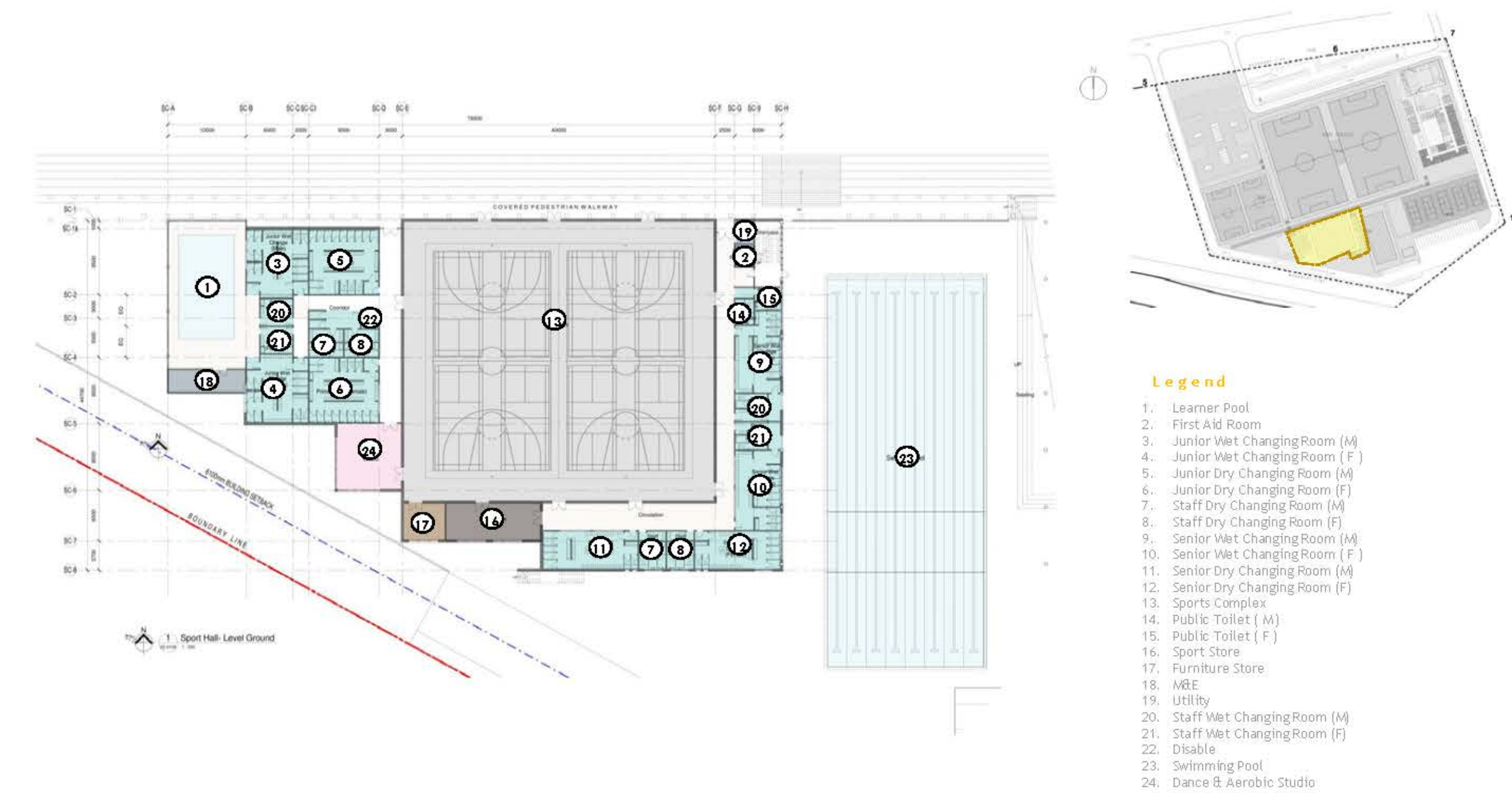


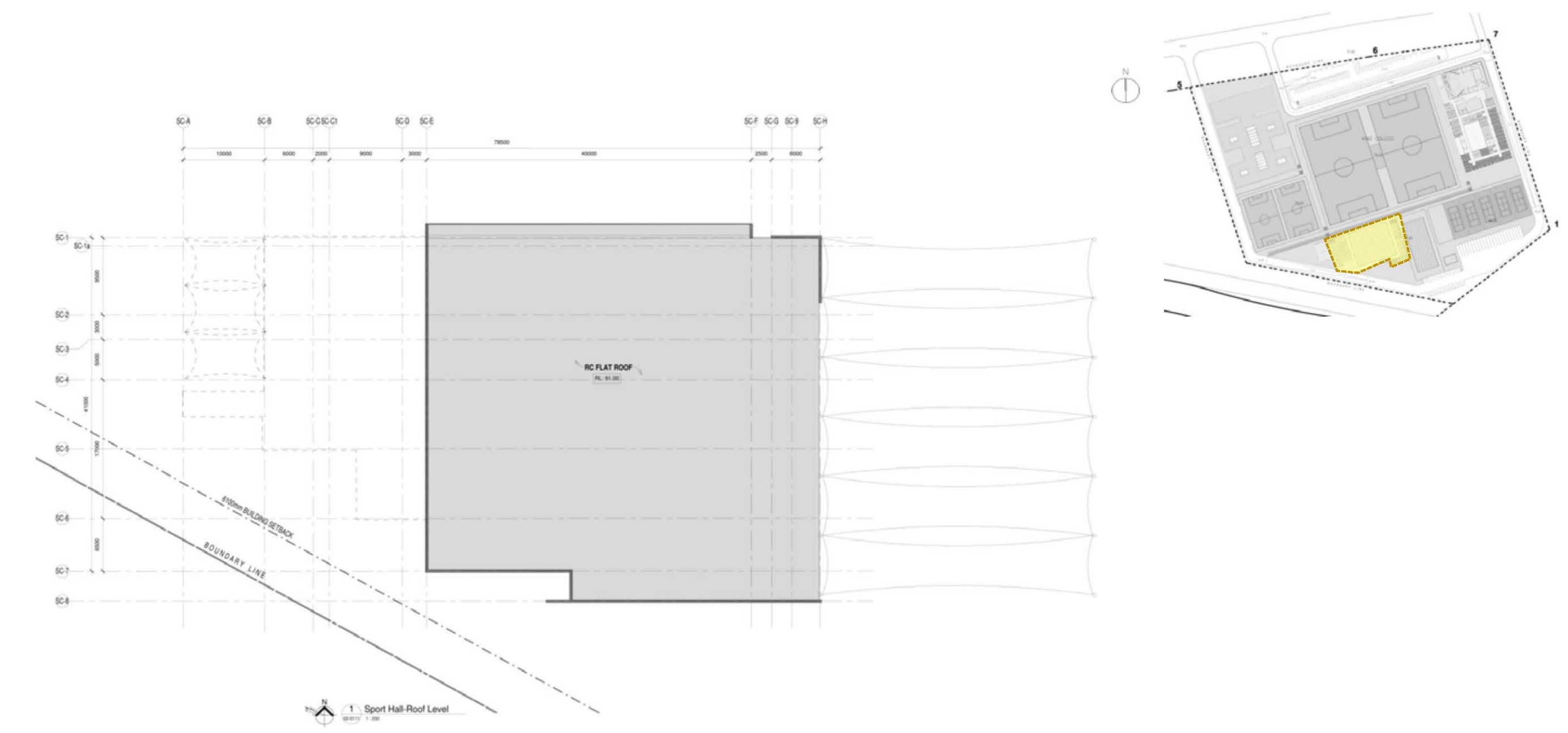


SPORTS HALL

08







ARTIST
IMPRESSION
Perspective Views

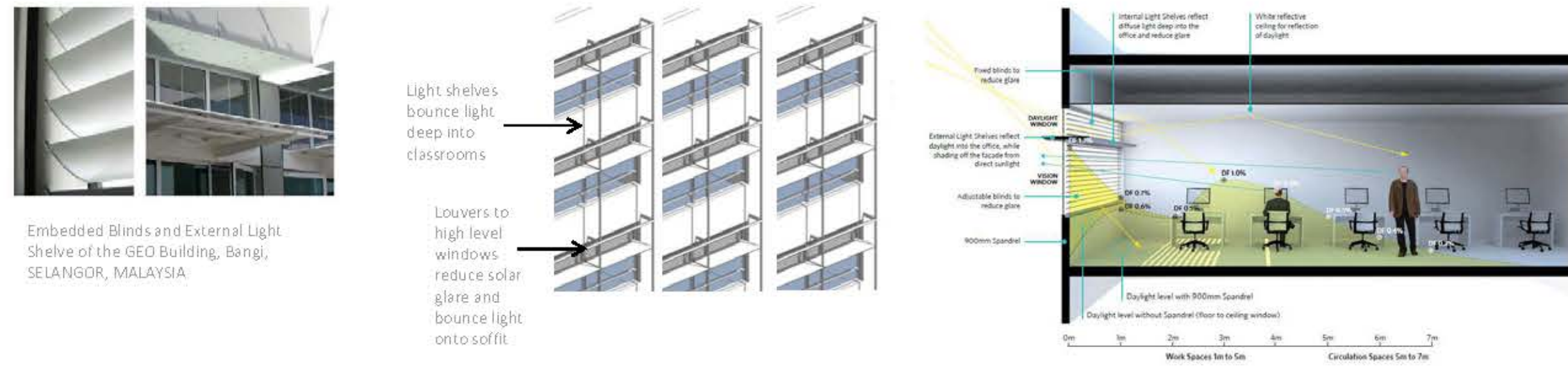
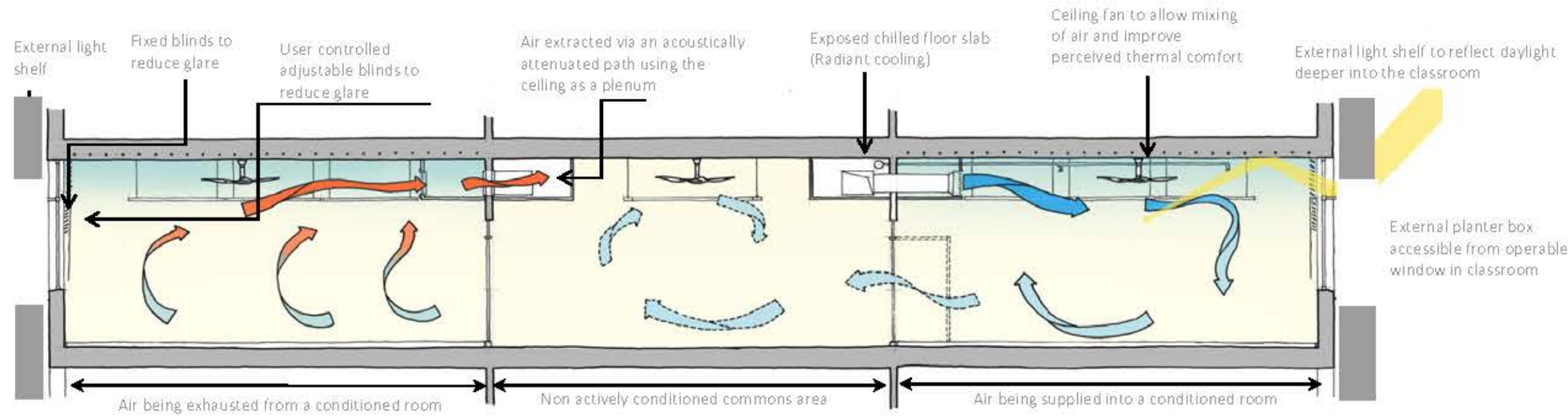
09





SUSTAINABILITY &
ENVIRONMENTAL
DESIGN
Green Building Studies

10



LANDSCAPE
CONCEPTUAL
DESIGN
APPROACH

11

LANDSCAPE CONCEPT DEVELOPMENT

LANDSCAPE DEVELOPMENT AT King's College Muscat, Oman

Taking the cue from the wadi as the genius loci of the site where the way nature flow and merge form the main basis for the landscape design. In designing for the school the landscape is essentially acting as a cooling and relief factor to the overall development.

With the main social spaces of the school located on the ground floor it is prime location for this flowing elements to integrate with the geometric architecture creating meeting points and shelters under the teaching wings and looking out over the large expanse of the playing field.

Shelter in the desert

The built environment of the King's College Muscat, Oman is arranged around a series of open spaces. Starting from the main entrance, atrium building, majestic sport arena, and school blocks for different age groups, it leads one into a series of open courts (urban living rooms) and gardens. Passing through a series of gateways, it ultimately leads one to the linear park that connects to the open space corridor network of the School. A range of other external spaces provide places for informal learning, socializing and meetings, from teaching terraces, courtyards in the spine which provide breakout space/garden for staff as well as students. These are unique sequence of spaces, trees and landscape selected and placed to address both the functional as well as the poetic.

Trees with good foliage are placed around the perimeter and plaza to provide shade and shelter for activities to happen. A strip of plants provides protection to the development from the sand and wind. While trees, planting and water create further shade and cooling effect to create shady and comfortable outdoor spaces that will attract more people to spend time on outdoor activities

Marking routes and circulation

The forms and planting arrangements are carefully designed along the external areas, axis and vistas, in order to mark and frame particular spaces and routes for better workability and accessibility. The forms are fun yet well connected from one space to another.

Bringing life below.

Our landscape works on multi-levels. Whilst some of the landscape on ground are planted in a series of suspended planters, we also allow some trees to grow up from the ground below. Vertical circulation is grouped along these openings that bring natural light, air and nature into the lower ground, and provide identifiable points of egress.



Oasis

something serving as a refuge, relief, or pleasant change from what is usual

Shelter in the desert



Marking routes and circulation

Bringing life below.



Marking routes and circulation

1. Continuous Lines
2. Open to Semi-Private Spaces
3. Majestic walkway/path
4. induce green patches



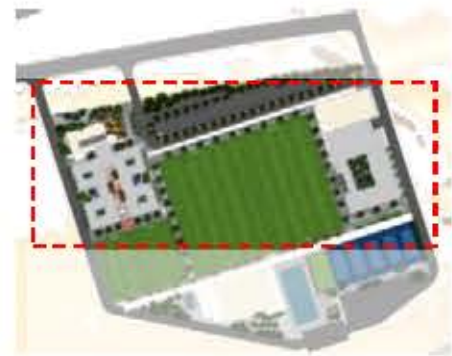
Bringing life below.

1. Iconic structure
2. Interactive Play Elements
3. Distinctive
4. Sculpture/ public art



Legend

- 1. Entrance Statement
- 2. Entrance Plaza
- 3. Toddler Garden / Playscape
- 4. Breakout Garden
- 5. Linear Garden
- 6. Green Amphitheater
- 7. Wall Climbing Arena
- 8. Oasis Courtyard
- 9. Communal Plaza
- 10. Podium Seating
- 11. Waiting Area / Drop Off

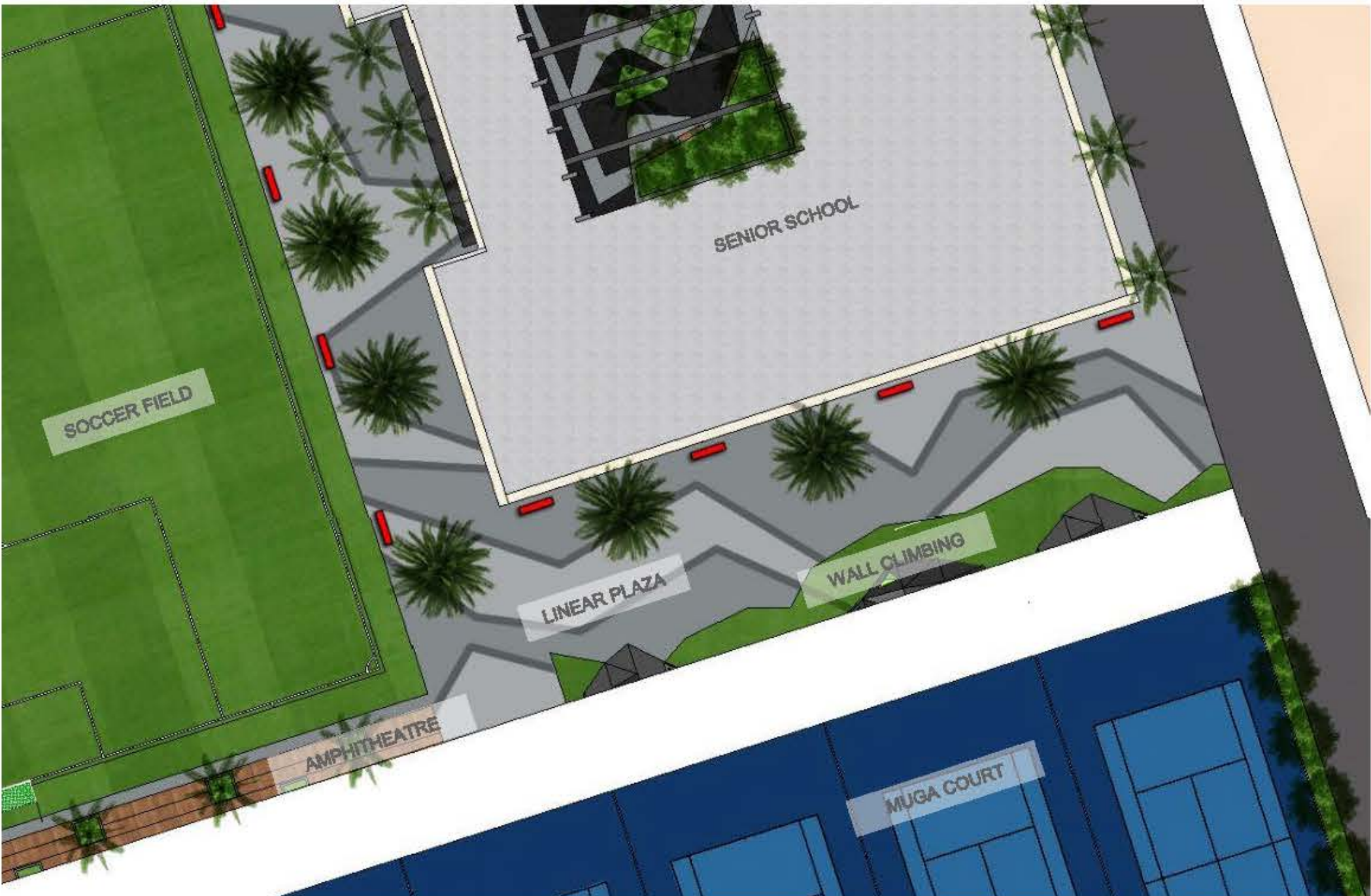














East Elevation

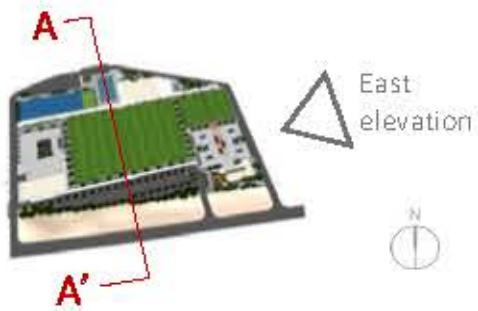


Section Elevation A – A'



Enlargement A

Legend



East elevation



South Elevation



Enlargement B

Legend



South elevation





Section Elevation B-b

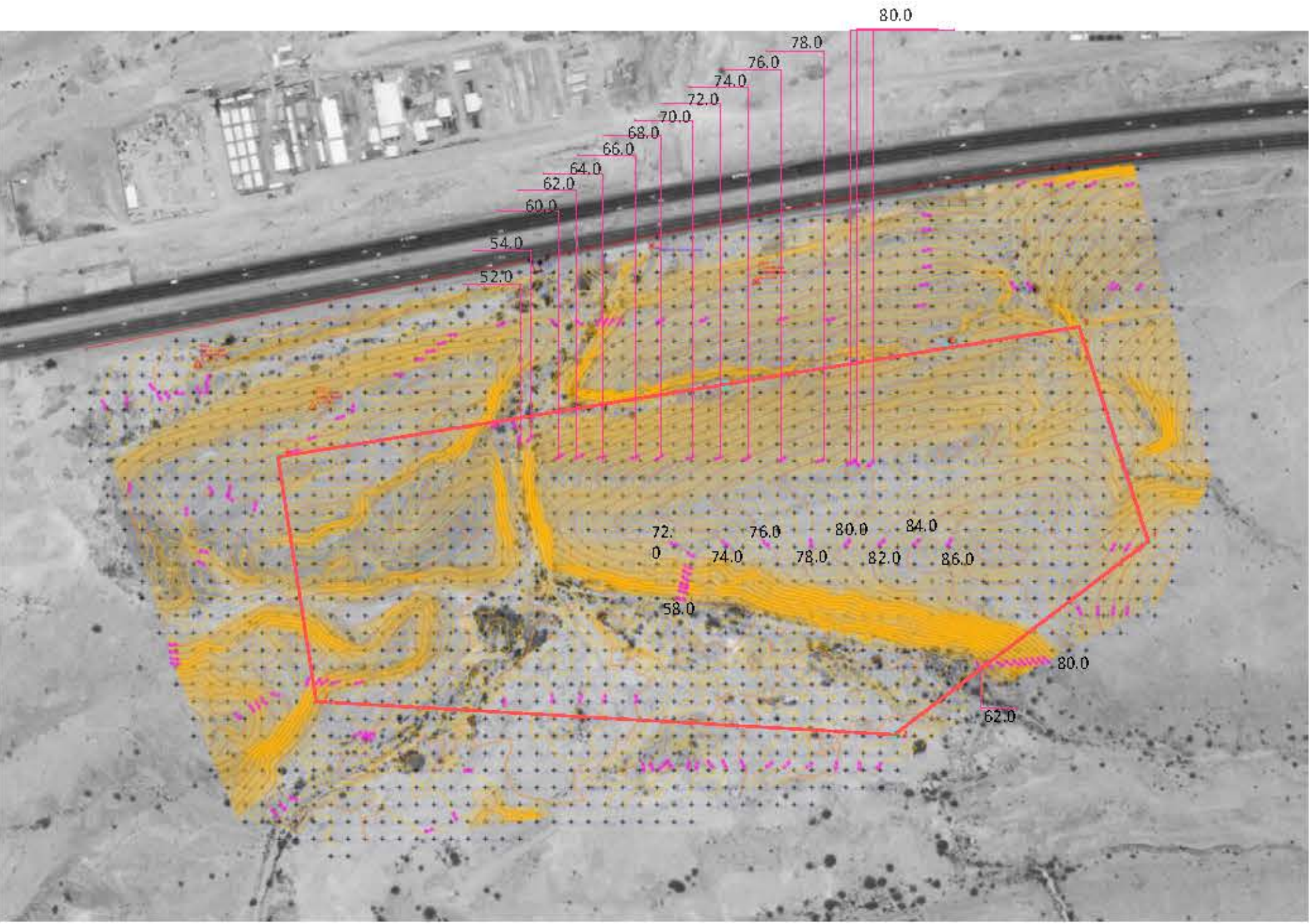


Enlargement C



Legend

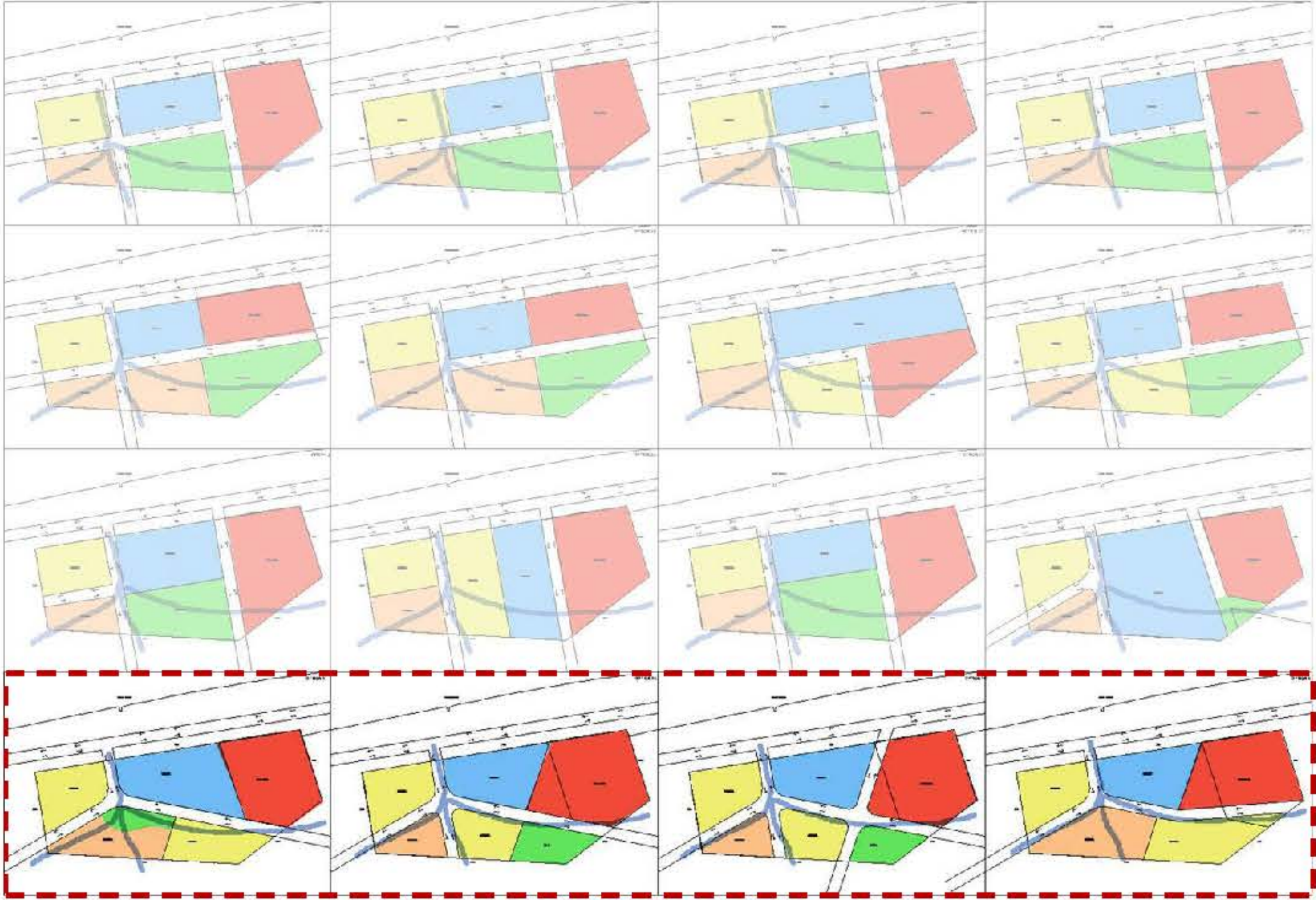
VOLUME 2



- Approximately 2 cm thick surface salt crust.
- Surface texture (0-5cm) loamy fine sand
- 70cm lightly gravelly sandy clay loam.
- Carbonaceous rocks.

Source : Agricultural and Marine Sciences, 8(1):41-46 (2003)
© 2003 Sultan Qaboos University

4



PREFERRED OPTION

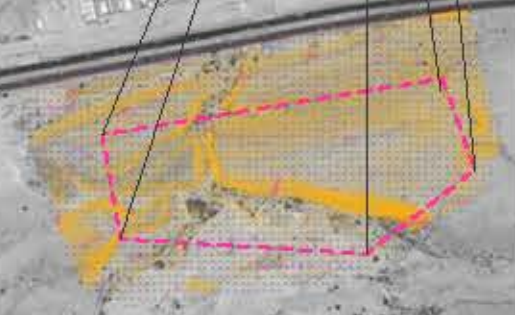
1



2

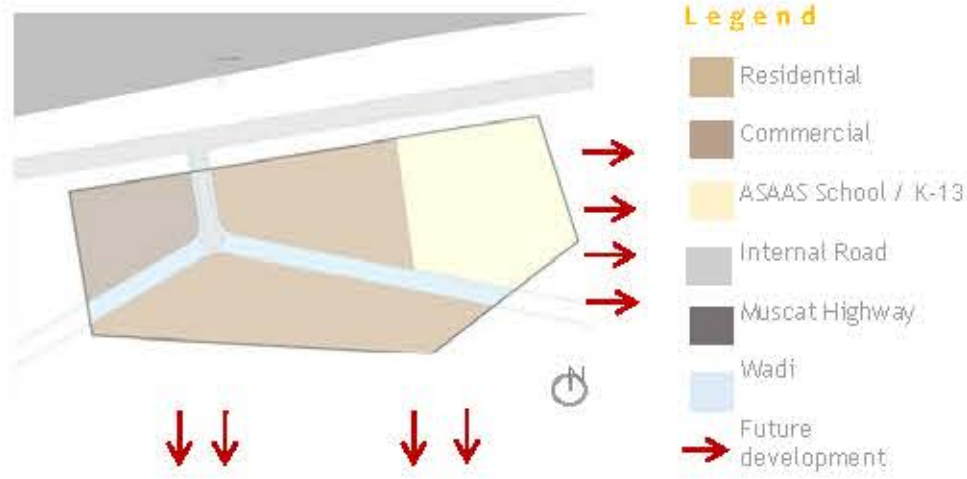


3



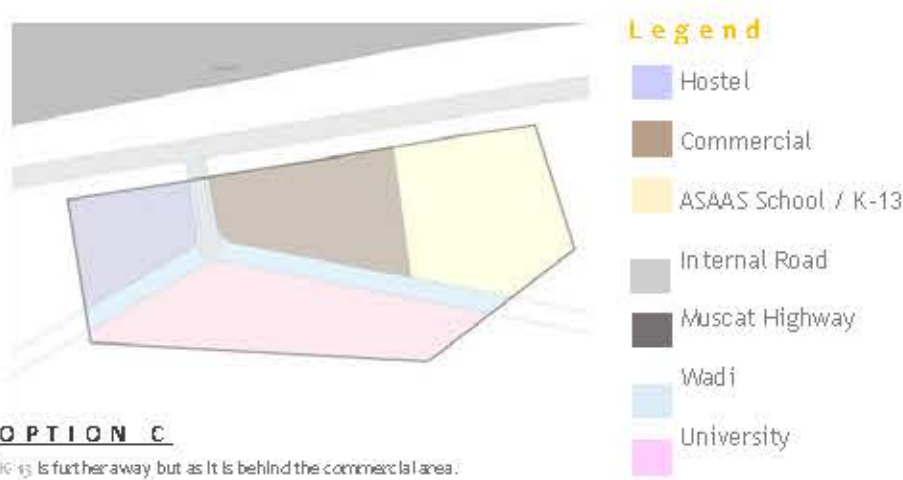
- Legend**
- ASAAS School
 - University
 - Residential
 - Commercial
 - Public Garden

A



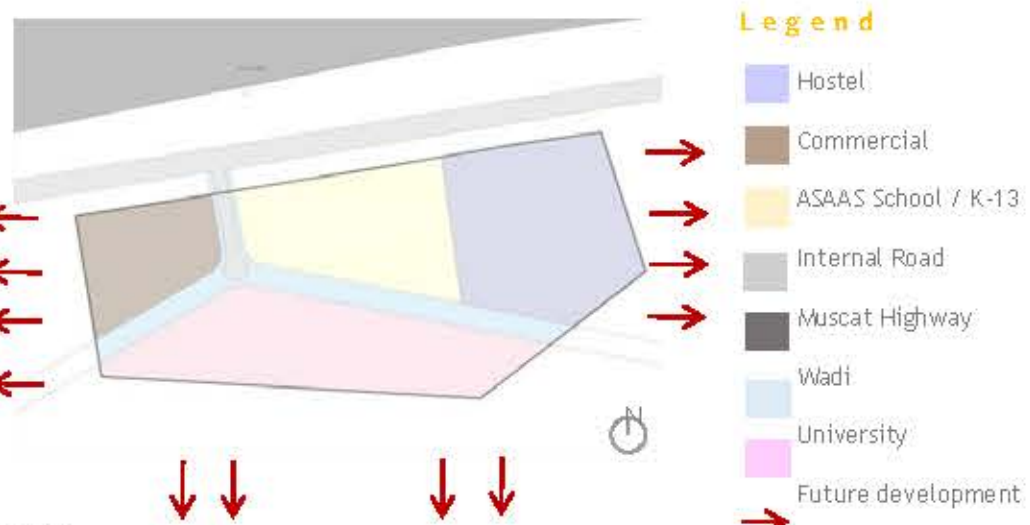
- OPTION A**
The purpose of development is for development & as per item 2, K-13 is the main component for the development.
- K-13 is behind Residential & Commercial on the other side to serve residential area.
 - However the area will not sustain K-13 on its own and future development may occur to EAST & South.

C



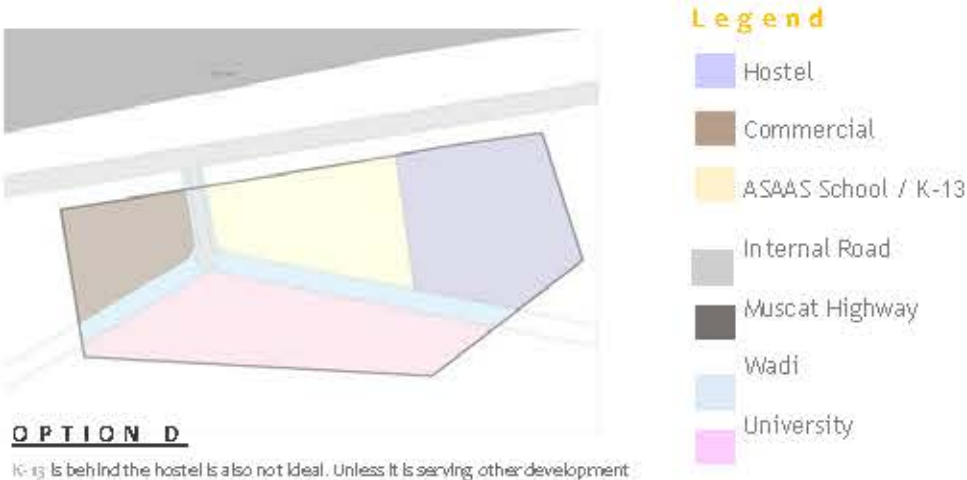
- OPTION C**
K-13 is further away but as it is behind the commercial area.

B



- OPTION B**
The purpose of development is an EDUCATION CITY. As per (item 2) K-13 is not the main component of the development.
- K-13 is given prominence at entrance plaza along with the university & a commercial area for parents and university students
 - Development can expand on all side.

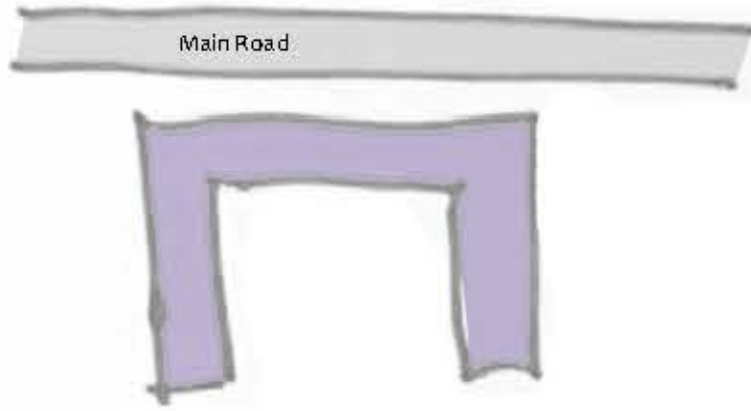
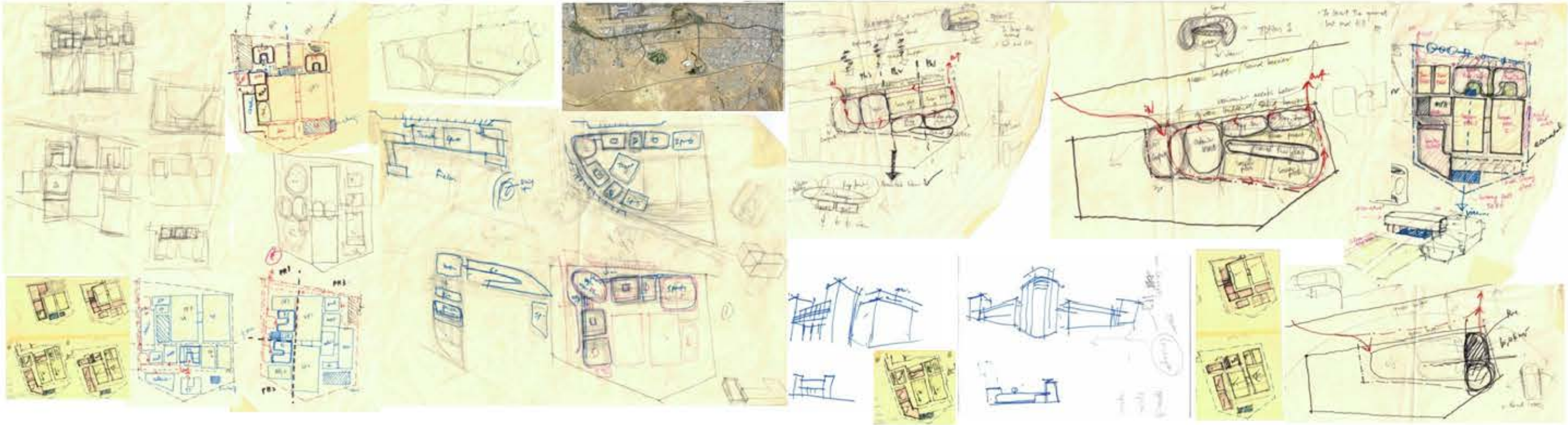
D



- OPTION D**
K-13 is behind the hostel is also not ideal. Unless it is serving other development

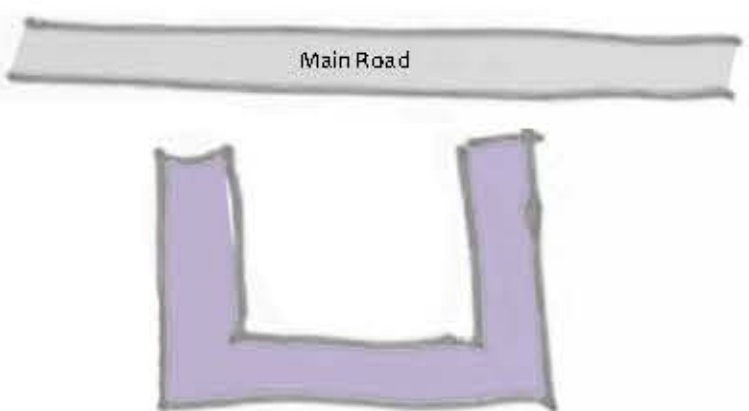
DESIGN
DEVELOPMENT :
SCHOOL

01



OPTION A

- Allow for flexibility.
- Frontage seen from main road.
- Use of service road from highway as possible entrance.



OPTION B

- Openness seen from highway.
- Frontage may not be seen from highway (300m away)
- In Omani context is the open field a desirable feature.

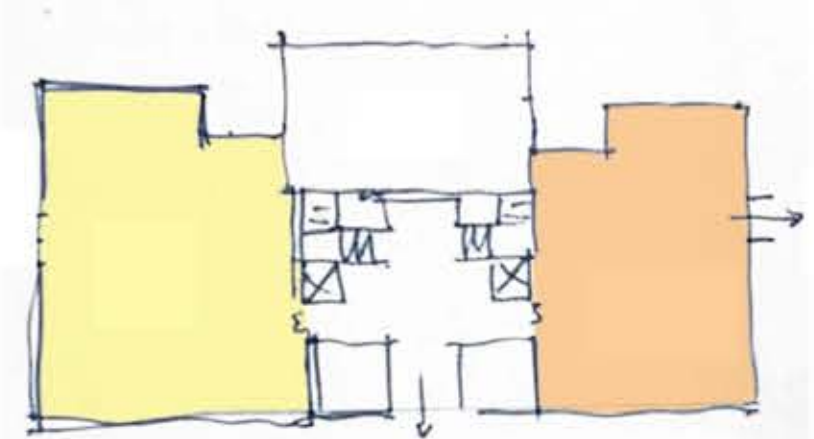


OPTION C

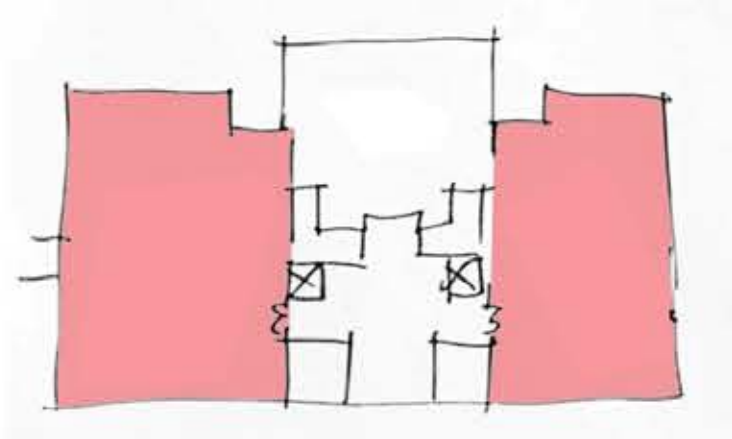
- Frontage from the side
- Allow for view of field from main road but not its major frontage.
- Flow of people will need to be considered carefully.
- Allow for education plaza to be prominence
- Access from highway as well as inner road.



GROUND FLOOR

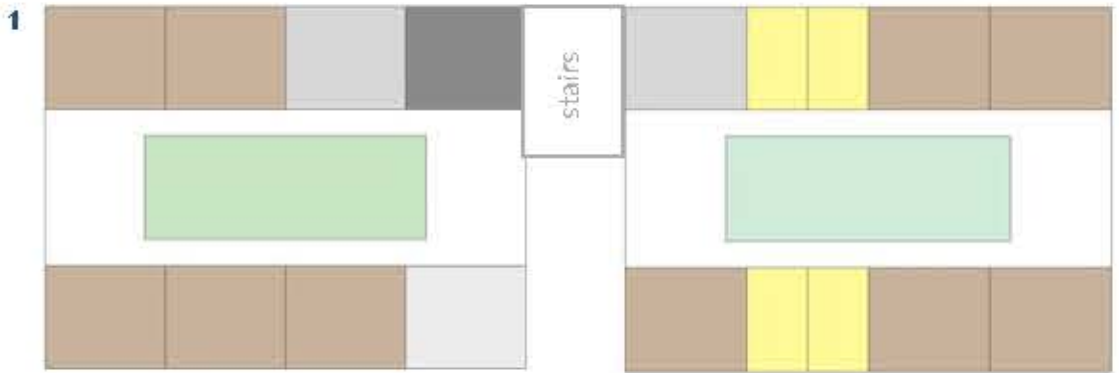


FIRST FLOOR

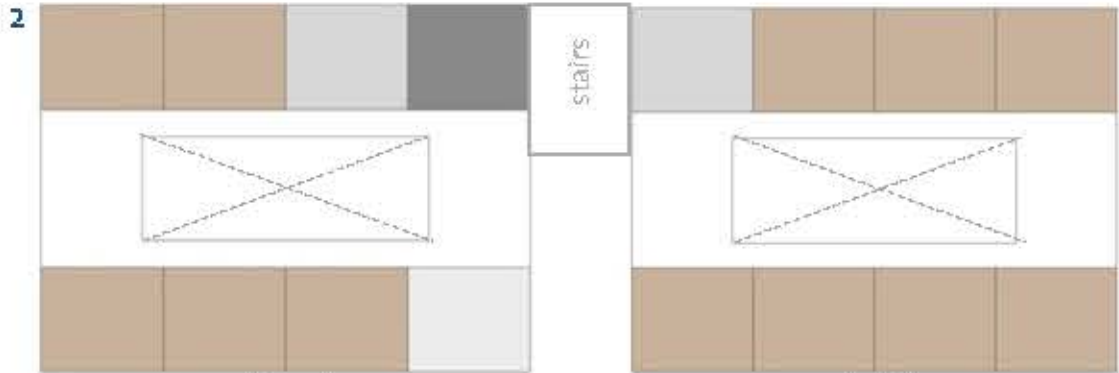


SECOND FLOOR

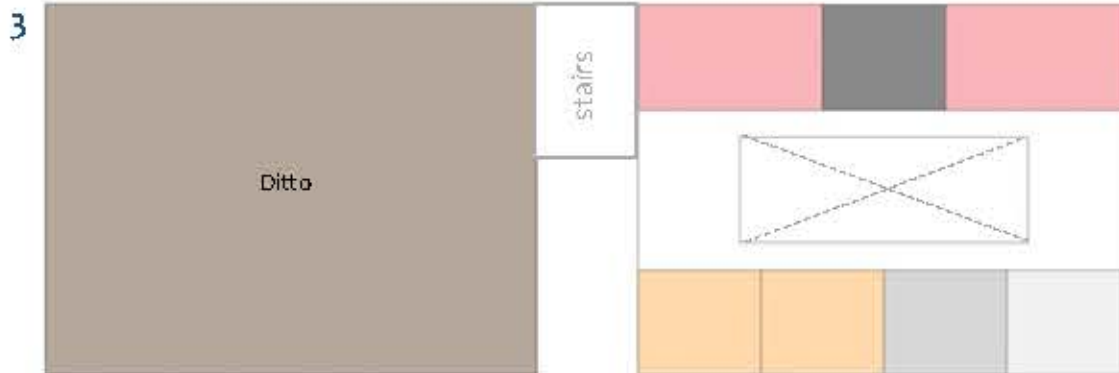
- Legend
- Meets Recruitment
 - Head of School Office
 - Junior Office
 - Office
 - Senior Office
 - Meetingroom & Staff Lounge



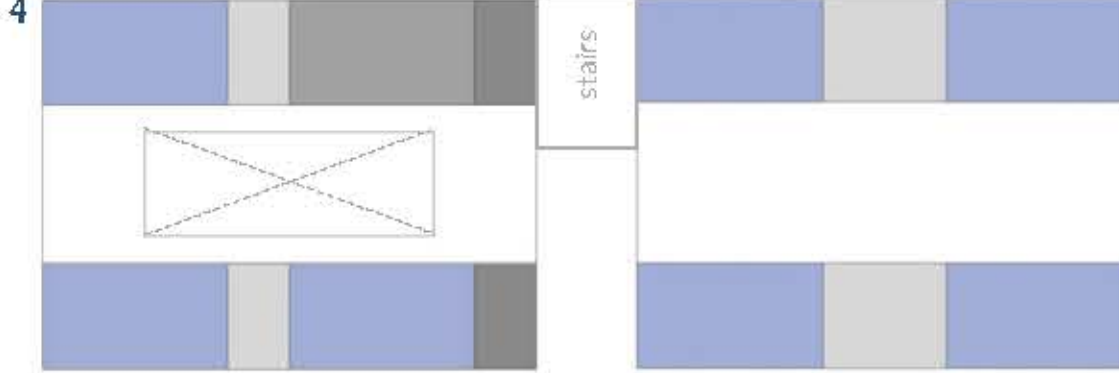
Arabic Language Language



Humanity English

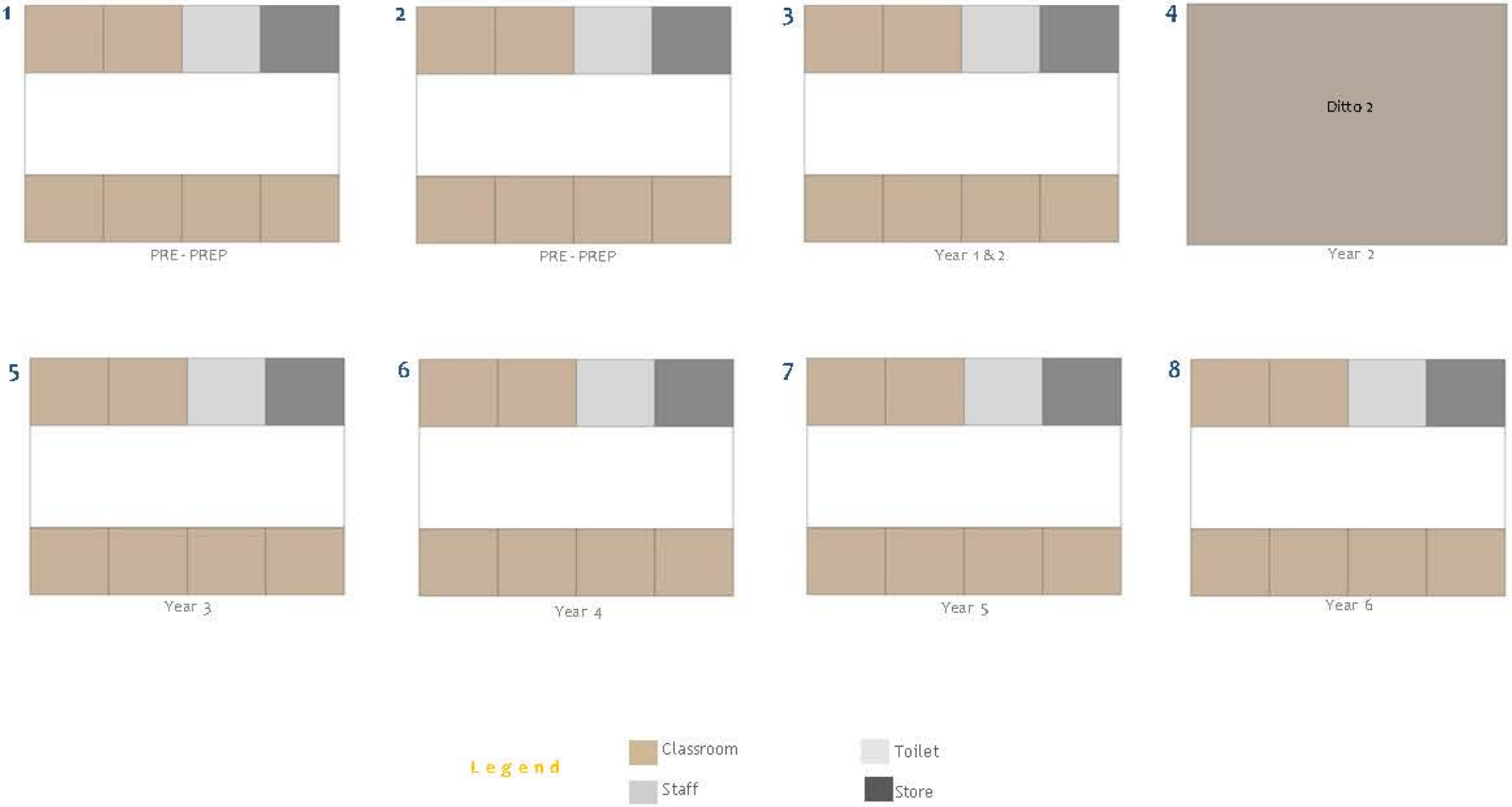


Social Classes Arts



Science Science

- Legend
- Classroom
 - Staff
 - Store
 - Toilet
 - Oral
 - Green
 - Ditto
 - Art
 - ICT
 - Science
 - Prep



DESIGN
DEVELOPMENT
SCHOOL
First Stage Submission
21st August 2017

Option A, B & C

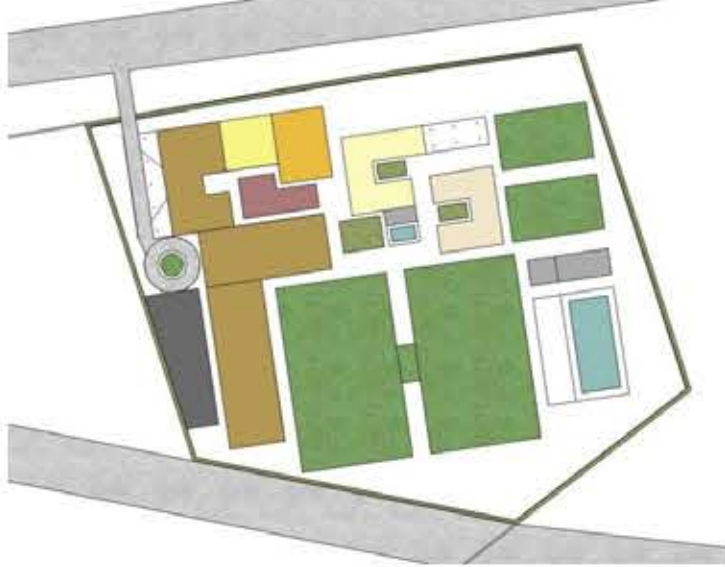
02



Option A

Area
+/-42,000 m2 of area as per the required site area.

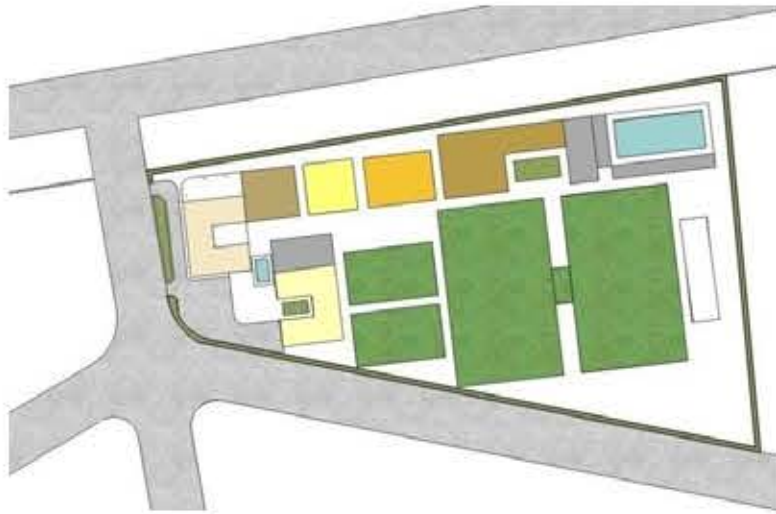
Phasing
10 626 sqm / 114 377 sqft



Option B

Area
49,495 m2
- to give more 'breathing 'space to the school development.

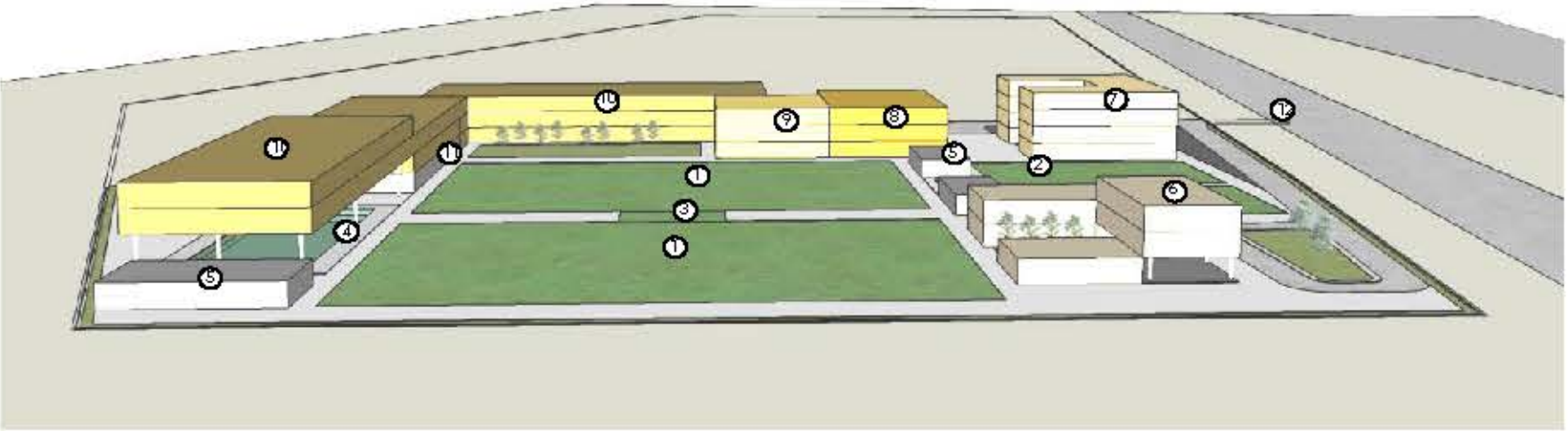
Sun Orientation
East-west sun orientation for the building openings as well as the field orientation



Option C

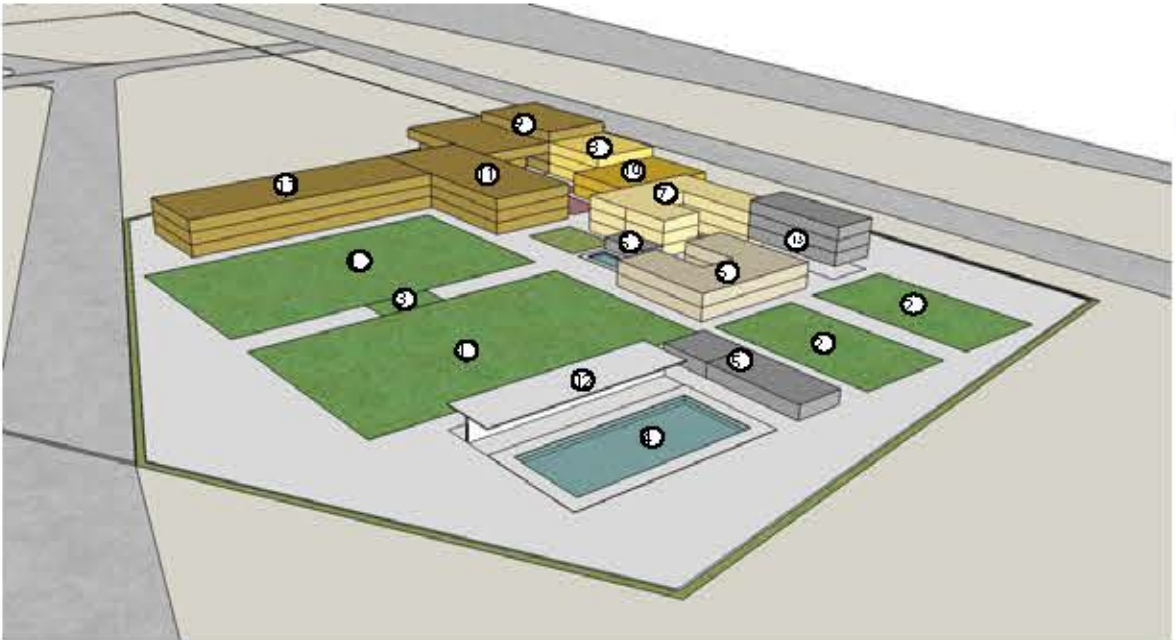
Area
49,495 m2
- to give more 'breathing 'space to the school development.

Sun Orientation
East-west sun orientation for the building openings as well as the field orientation



Legend

- 1. Soccer Field
- 2. Junior Field
- 3. Cricket Field
- 4. Swimming Pool
- 5. Changing Room
- 6. Pre -Prep School
- 7. Primary School
- 8. Multipurpose Hall
- 9. Auditorium
- 10. Senior School
- 11. Senior School Dining
- 12. Ingress / Egress



Legend

- 1. Soccer Field
- 2. Junior Field
- 3. Cricket Field
- 4. Swimming Pool
- 5. Changing Room
- 6. Pre -Prep School
- 7. Primary School
- 8. Multipurpose Hall
- 9. Admin
- 10. Auditorium
- 11. Senior School
- 12. Grand stand
- 13. Junior Dining



DESIGN DEVELOPMENT : SCHOOL

Second Stage Submission
29th August 2017

Option A & B

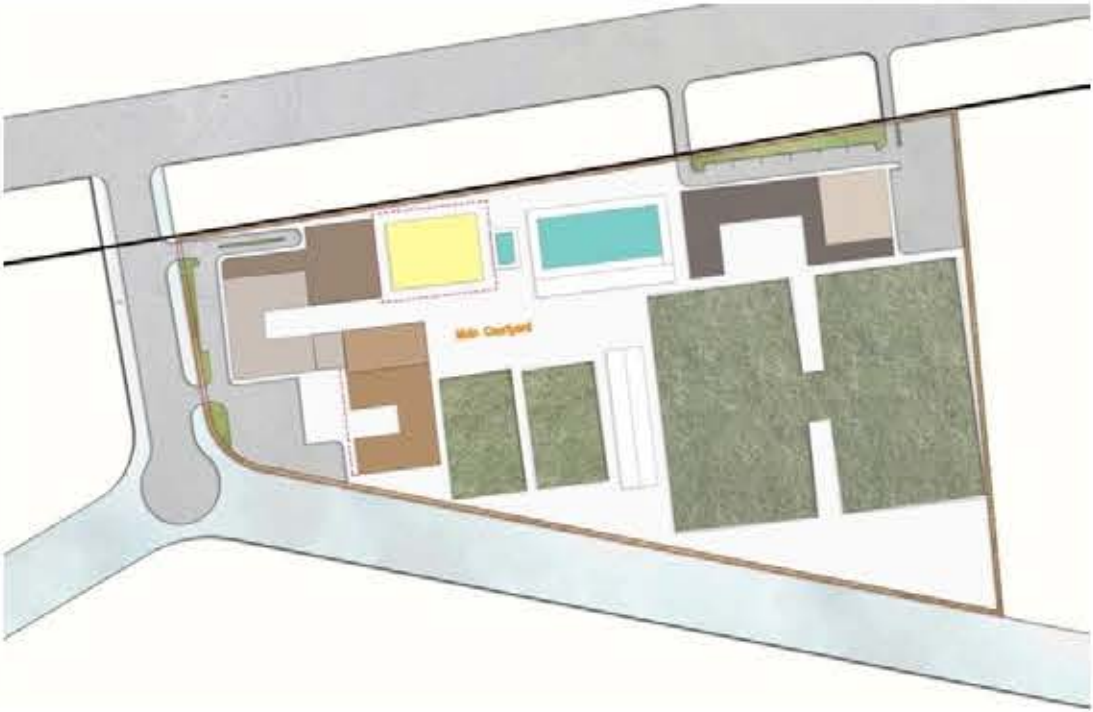
03



Option A

Area
+-42,000 m2 of area as per the required site area.

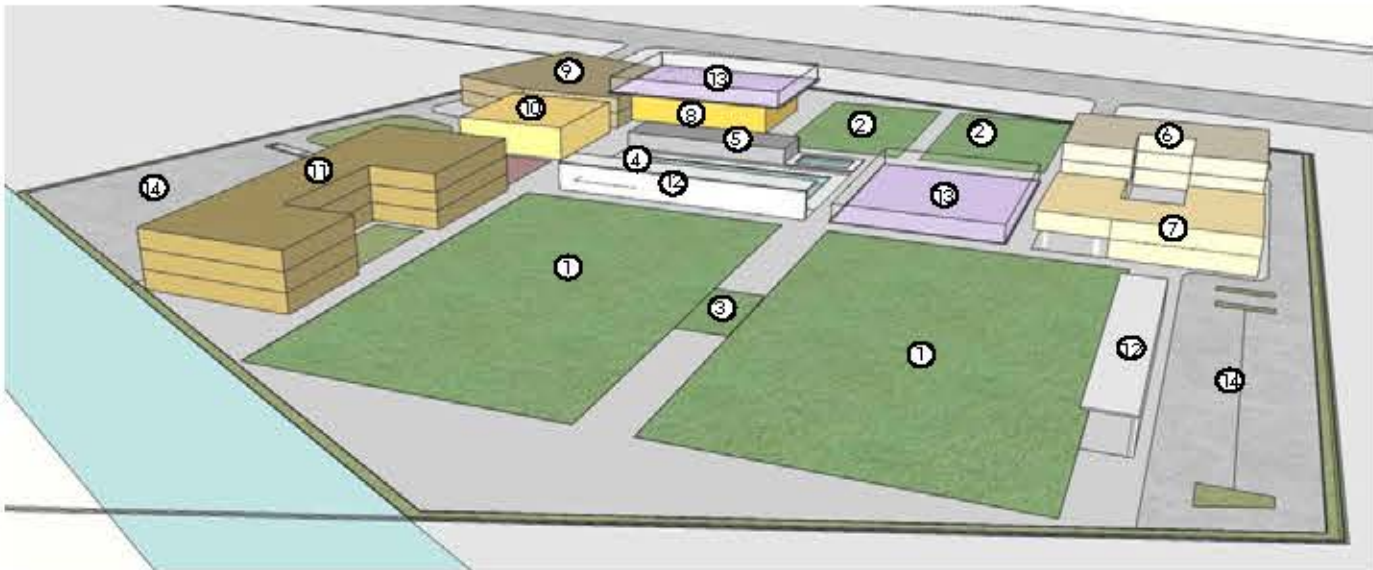
Phasing
10 626 sqm / 114 377 sqft



Option B

Area
49,495 m2
- to give more 'breathing 'space to the school development.

Sun Orientation
East-west sun orientation for the building openings as well as the field orientation



Legend

- 1. Soccer Field
- 2. Junior Field
- 3. Cricket Field
- 4. Swimming Pool
- 5. Changing Room
- 6. Pre -Prep School
- 7. Primary School
- 8. Multipurpose Hall
- 9. Auditorium
- 10. Senior School
- 11. Senior School Dining
- 12. Ingress / Egress



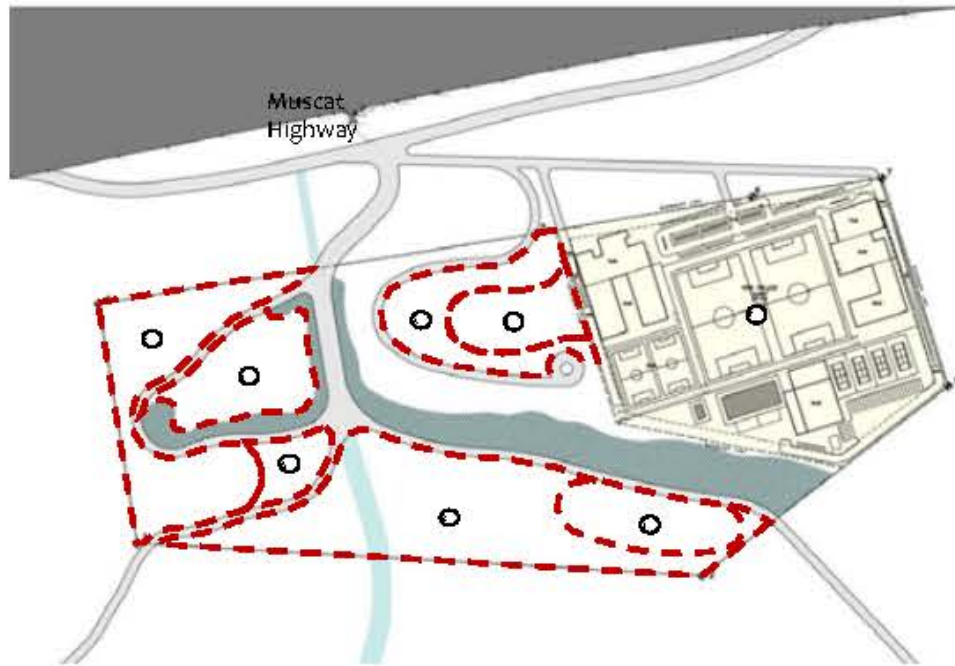
Legend

- 1. Soccer Field
- 2. Junior Field
- 3. Cricket Field
- 4. Swimming Pool
- 5. Grand Stand
- 6. Pre -Prep School
- 7. Primary School
- 8. Sports Hall
- 9. Admin
- 10. Auditorium
- 11. Senior School
- 12. MUGA
- 13. Car park
- 14. Ingress / Egress

DESIGN DEVELOPMENT : SCHOOL

Final Design Concept
Based On 29th August
2017 Discussion

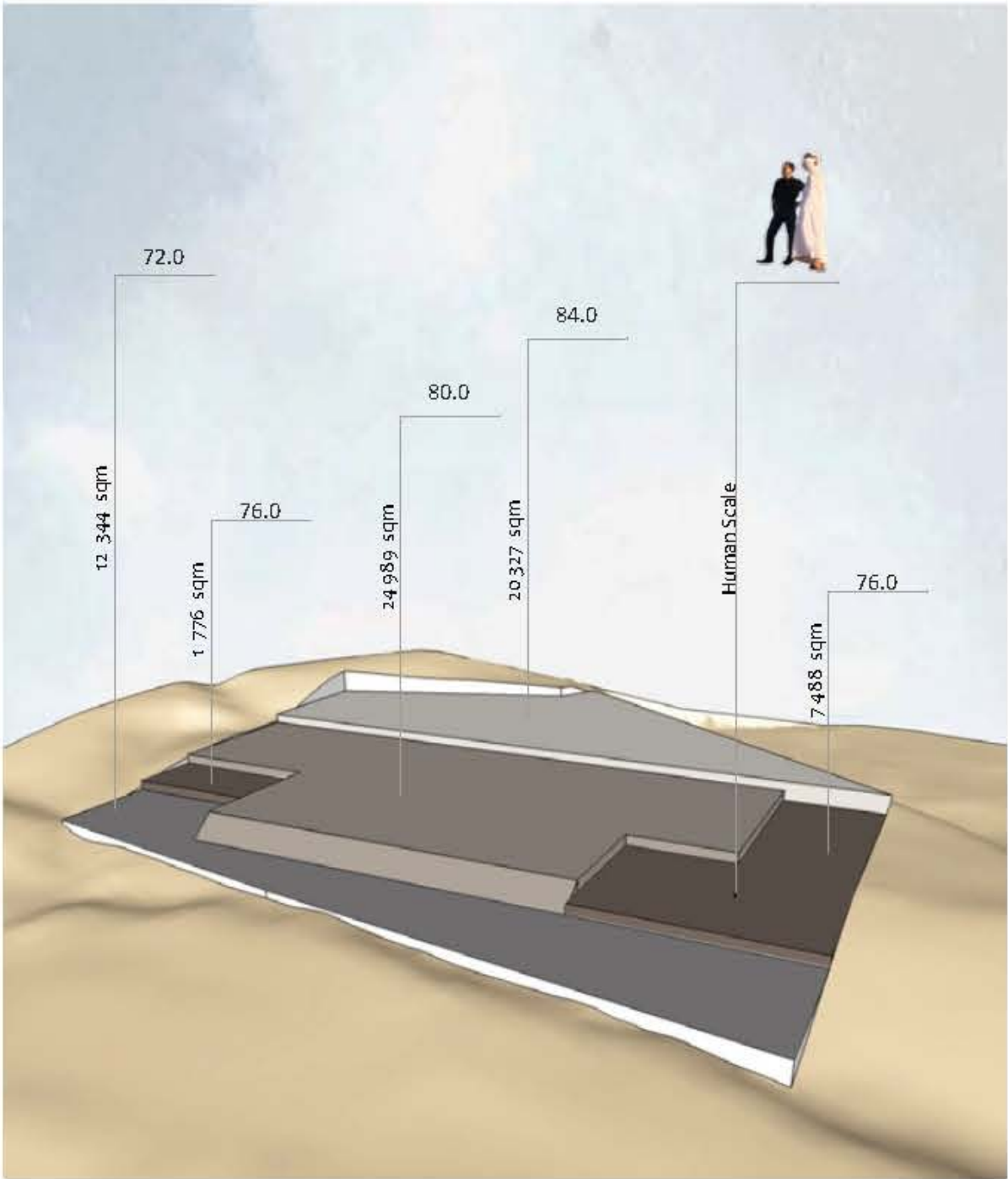
04

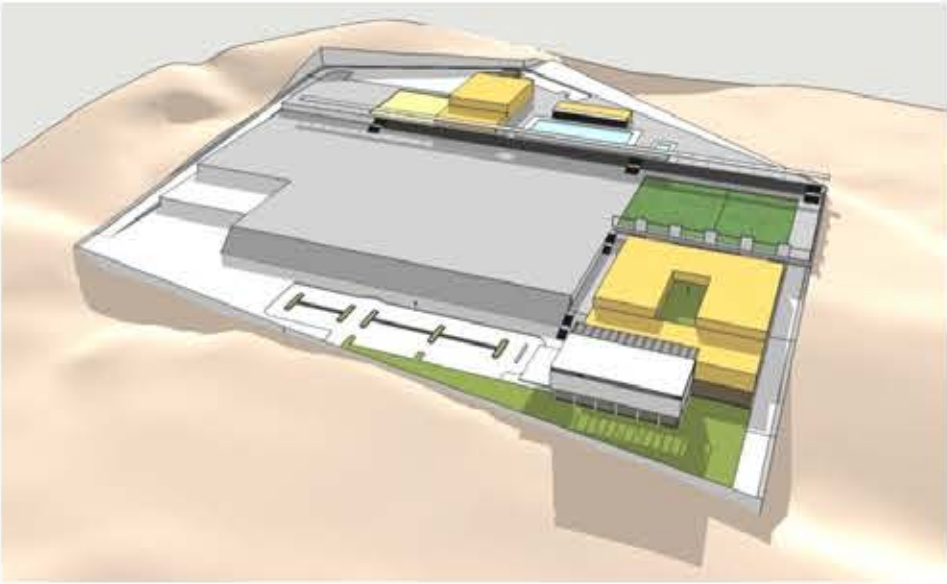


- Legend**
- 1. Potential Boarding Houses
6,236 SQM | 1.54 acre
 - 2. Potential University
28,330 SQM | 7.0 acre
 - 3. 26,380 SQM | 6.52 acre
 - 4. Residential
9,512 SQM | 2.35 acre
 - 5. Residential
17,583 SQM | 4.34 acre
 - 6. Potential Boarding Houses
7,623 SQM | 1.88 acre
 - 7. ASAAS School
64,300 SQM | 15.88 Acre
 - 8. Local Retail
3,310 SQM | 0.80 acre



- Legend**
- 1. Soccer Field
 - 2. Junior Field
 - 3. Cricket Field
 - 4. Swimming Pool
 - 5. Learning Pool
 - 6. Changing Room
 - 7. Pre-Prep School
 - 8. Primary School
 - 9. Sports Hall
 - 10. Admin/ Atrium
 - 11. Auditorium
 - 12. Senior School
 - 13. MUGA
 - 14. Playground
 - 15. Admin 2
 - 16. Car park
 - 17. Ingress / Egress
 - 18. Bus Parking
 - 19. Courtyard

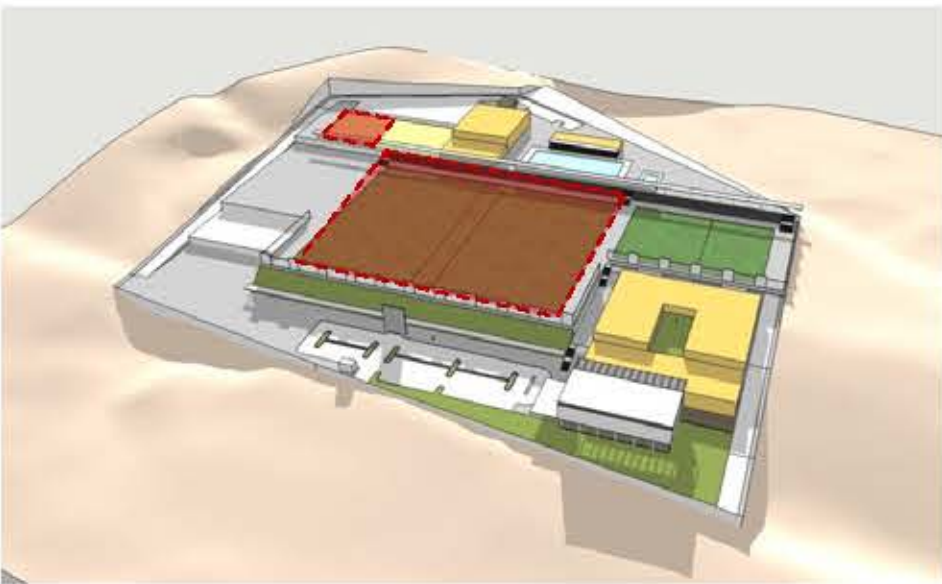




PHASE 1

Pre-Prep School	1 238 sqm
Prep School	4 925 sqm
Atrium	1 100 sqm
MUGA 1	1 776 sqm
Junior Fields	3 000 sqm
Swimming Pool	1 682 sqm
Learner Pool	187 sqm
Sports Hall	1 360 sqm
Changing Rooms	951 sqm

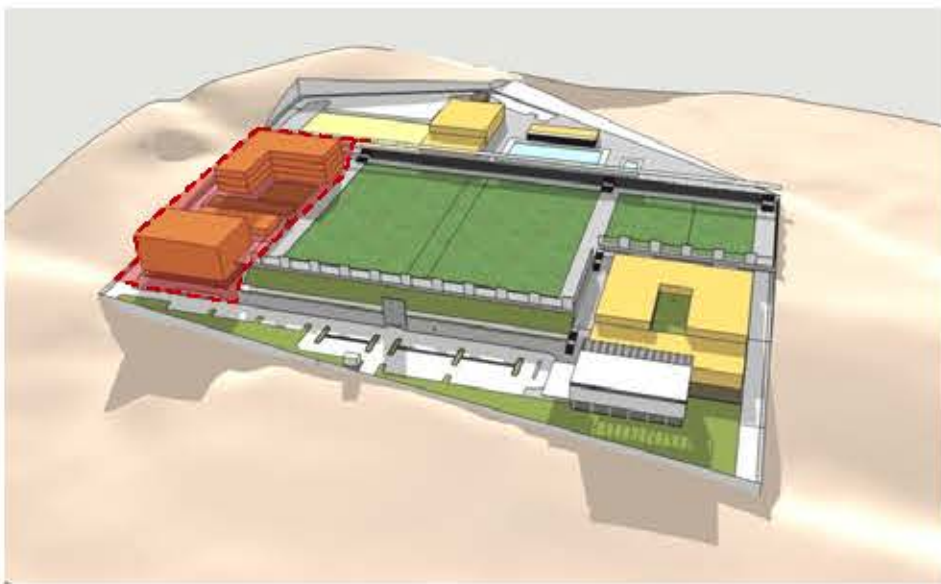
Total building Area :	9 574 sqm
Land Area :	34 563.5 sqm



PHASE 2

MUGA 2	1 776 sqm
Soccer Fields	11 000 sqm
Cricket Field	200 sqm

Total building Area :	
Land Area :	21 017.6 sqm



PHASE 3

Senior School	5 475 sqm
Auditorium	1 100 sqm
Admin	766 sqm
Senior Dining	1 100 sqm

Total building Area :	8 441 sqm
Land Area :	9 850 sqm

REFERENCE
IMAGES
Façade Studies

05





SCHEDULE
OF AREA -
KING’S COLLEGE
BRIEF

06

1.0 YEAR GROUPS

School	Year Group	Forms	Class Size	Capacity
Pre-Prep	FS1	6	20	120
	FS2	6	20	120
	Y1	6	24	144
	Y2	6	24	144
Prep	Y3	6	24	144
	Y4	6	24	144
	Y5	6	24	144
	Y6	6	24	144
Senior	Y7	5	24	120
	Y8	5	24	120
	Y9	5	24	120
	Y10	5	24	120
	Y11	5	24	120
	Y12	7	12	84
	Y13	7	12	84
Total	Total			1872

2.0 INTERNAL AREAS

2.1 AREAS by SCHOOL COMPONENT

By Component	Capacity	Year Groups	Area			%	GIA / Student (m2)
SCHOOL			NIA (m2)	GIA (m2)	GFA (m2)	%	10.8
Pre-Prep (FS1 - Y2)	528	FS1 - Y2	1,785	2,544	2,671	12.6%	GFA / Student (m2) 11.4
Primary (Y3 - Y6)	576	Y3 - Y6	3,296	4,697	4,932	23.2%	
Senior (Y7 - Y13)	768	Y7 - Y13	9,123	13,000	13,650	64.2%	
TOTAL	1872		14,204	20,241	21,253	100%	

2.1 AREAS by PHASE

By Phase	Capacity	Year Groups	Area			%
PHASE			NIA (m2)	GIA (m2)	GFA (m2)	%
Phase 1	528	FS1 - Y4	5,441	7,753	8,141	38%
Phase 2	744	Y5 - Y10	3,511	5,003	5,253	25%
Phase 3	600	Y11 - Y13	5,252	7,484	7,858	37%
	1872		14,204	20,241	21,253	100%

3.0 EXTERNAL AREAS

MINIMUM INFORMAL PLAY AREAS	No	Area of CR		3,380	Phase
KG (Double CR Area Mixture of landscape & social)	1	672		1,344	1
Primary (Double CR Area Mixture of landscape & social)	1	2016		2,016	1
Secondary (Double CR Area - Mixture of landscape & social)	1	0		-	2
OUTDOOR SPORTS	No			20,073	
MUGA Court - Tennis/ Netball - 3 courts arranged side by side	2	48 x 37	1,776	3,552	1 & 2
Soccer Pitches: GRASS Surface. Including Run Off	2	60 x 100 m	5,500	11,000	2
Rugby Pitches: Natural Grass Surface. Including Run Off	0	70 x 140 m	6,000	-	
Hockey Pitches: Astroturf (3G) Surface. Including Run Off	0	55 x 90m	4,950	-	
Cricket Square (Between Football Pitches)	1	10 x 20	200	200	2
Junior football/ playing field	2	30 x 50 m	1,500	3,000	1
400m Athletics Track	0		16,000	-	
50 m 8 Lane (50x 21m). Swimming Pool with 4m surround	1	58 x 29 m	1,682	1682	1
Learner pool 13 x 7 m with 2m surround	1	17 x 11 m	187	187	1
Spectator Area for Main Pool	1	50 x 3 m	150	150	1
Pool Storage	1		15	15	1
First Aid Room	1		12	12	1
Staff Changing	2		15	30	1
Student Changing (M & F with Showers)	4		56	224	1
Student Toilets (M& F)	4		6	24	1
CAR and BUS Parking and Circulation	No			7,919	
Car parking at 1 space per class + admin (plus one half for circulation)	83	2.5 x 5.5 m	20,625	3,424	
Visitor Car parking (10% of above)	8	2.5 x 5.5 m	20,625	342	
Car parking at 1 space per 50m2 admin (plus one half for circulation)	13	2.5 x 5.5 m	20,625	516	
Visitor Car parking (10% of above)	1	2.5 x 5.5 m	20,625	52	
Bus parking at 1 space per 3 classroom (plus one half for circulation)***	28	3.6 x 12 m	64.8	3,586	
		Total Net External Areas		31,355	
		Total Gross External Areas		37,826	

4.0 OVERALL SITE REQUIREMENT

Component	%	Total (m2)
Building Footprint	50%	10,626
External Landscape	120%	37,626
TOTAL MINIMUM DEVELOPABLE LAND REQUIRED		48,252

Preliminary Accommodation Schedule - Core School Internal Spaces

KING'S COLLEGE MUSCAT
COMMERCIAL IN CONFIDENCE

PHASE	PHASE 01				PHASE 02				PHASE 03				TOTAL	TOTAL
	Students No.	Number	Size (m2)	Total (m2)	Students No.	Number	Size (m2)	Total (m2)	Students No.	Number	Size (m2)	Total (m2)	Total (m2)	Total (m2)
PRE PREP		VERITAS	VERITAS	1785	2161		VERITAS	VERITAS		VERITAS	VERITAS	VERITAS		VERITAS
Entrance / Reception / Admin				60	158									
Pre-Prep Entrance Lobby		1	1	45	95									
Reception Area		1	1	15	8									
Public toilet (M&F)			2	25	0			50						
Parents Cafe			1	5	0			5						
FOUNDATION STAGE (6FE)	240			891	972									
Classrooms	20	12	12	56	49			672	588					
FS Break Out Area		1	2	100	143			100	286					
FS Leader Office		1	0	15	0			15	0					
General Storage		2	0	6	0			12	0					
Cleaners Cupboards		2	2	1.5	2			3	4					
FS1 and FS2 Student Toilets (integral between 2 classrooms)		6	6	12	10			72	60					
FS Staff Toilets		2	2	6	9			12	18					
Disabled WC		1	4	5	4			5	16					
KEY STAGE 01: Years 1 and 2 (6FE)	288			834	1031									
Classrooms	24	12	12	56	54			672	648					
Interactive Learning Area		1	2	100	143			100	286					
Early Years Resource Area		1	2	15	19			15	38					
Lap Top Recharge/ Storage		2	0	4	0			8	0					
IDF Room		1	0	8	0			8	0					
Head of Early Years (KS1) Office		1	0	15	0			15	0					
General Storage		2	1	6	59			12	59					
Cleaners Cupboards		2	0	2	0			4	0					

SECONDARY AND SIXTH FORM, 5FE/ 7FE					1887	2593	1884	1787	5252	5241	9,003	9,621
SECONDARY Y7 - 11					168			392	440	432	1688	1625
Students/ Classes Yrs 7-11, 5FE @ 24/class					24	7			24	18		
SIXTH FORM Y12 & 13									168			
Students / Classes Yrs 12&13 7FE @ 12/class									12	14		
Maths Classrooms					7	8	56	55	392	440		
Interactive Digital/ Shared Learning Area					1	1	50	55	50	55		
Staff Work Rooms					1	1	14	14	14	14		
Subject Leaders/ Year Leader					1	1	9	12	9	12		
General Storage					2	0	6	0	12	0		
English Classrooms											8	8
Interactive Digital/ Shared Learning Area											1	1
Staff Work Rooms											1	1
Subject Leaders/ Year Leader											1	1
General Storage											2	0
Humanities Classrooms											5	5
Interactive Digital/ Shared Learning Area											1	1
Staff Work Rooms											1	1
Subject Leaders/ Year Leader											1	0
General Storage											2	0
Social Studies and Business Classrooms											5	5
Interactive Digital/ Shared Learning Area											1	1
Staff Work Rooms											1	1
Subject Leaders/ Year Leader											1	0
General Storage											2	0
Languages Classrooms											5	5
Interactive Digital/ Shared Learning Area											1	1
Language Oral Rooms											4	4
Staff Work Rooms											1	1
Subject Leaders/ Year Leader											1	1
General Storage											2	1
Arabic/ Islamic Studies Classrooms											5	5
Staff Work Rooms											1	1
Subject Leaders/ Year Leader											1	1
General Storage											2	0
SIXTH FORM Y12 & 13 FACILITIES											2	0
Year 12 & 13 Leader's Offices											2	2
Study Areas											2	2
Common Room											1	1
Careers Room											1	1
Secure exam storage											1	0
General Storage											2	0
SCIENCE/ TECHNOLOGY								693	617		2	0
Science Labs (Double up as other specialist Labs until 3rd Phase)					7		90		630	539		
science Lab 1						1		79				
science Lab 2						1		90				
science Lab 3						1		89				
science Lab 4						1		89				
science Lab 5						1		82				
science Lab 6						1		110				
Prep Room. Each Prep to serve 2 labs					3	3	15	26	45	78		
Science Store Room					3	0	6	0	18	0		
DESIGN TECHNOLOGY												
Workshop - Resistant Materials											1	1
Textiles Studio											1	1
Graphics Studio											1	1
Workshop Store											1	1
General DT Store											1	0
Exhibition Area												1
Store											1	20
ICT												139
Digital Learning/ ICT Studios											2	1
ICT Store											1	0
ICT Support Office											1	0
PERFORMING ARTS												386
Drama Black Box											1	1
Drama Store											1	1
Music Recital/ Performance Room											1	1
Music Technology Classroom											1	1
Practice Rooms											8	6
Recording Studio/ Live Room											1	1
Instrument Store											1	1
3D Art											1	1
3D Art Room											1	1
2D Art Room											1	1
Klin Room											1	1
Art Storage											1	1
Internal Garden (Level 2 Senior School)												1
MEDIA												151
TV Studio/ Sound Stage / Suite											1	1
Control Room for above											1	1
Editing Suite/ Mac Lab											1	1
BROADCAST MEDIA CENTRE												250
Secondary Library/ reading area											1	1
Library Collection/ Processing											1	1
Office / store area											1	1
SEN												56
Small Group Rooms											3	1
Small Group Room 1												1
Small Group Room 2												1
Small Group Room 3												1
SEN Base/ Office/ Admin											1	1

KING'S COLLEGE MUSCAT: OUTLINE FINISHES SCHEDULE					
Internal Finishes Matrix					
No	Room Type / Description	Finishes* Floor	Wall	Ceiling	Typical Base Build Joinery
Primary / Middle / Secondary / Senior (Sixth Form)					
1.	Entrance Hall / Lobby / Reception / Parents Waiting Area	Full Bodied Porcelain Tiles / Optional carpet tile inlay	Wash & Wear paint with accent lacquer / timber walls panels / Wall graphics	Specialist Ceiling Finishes / Painted gypsum boards with shadow gaps / Cove lighting	Pin boards / Student Awards Cabinet / Parent Coffee Point
2.	Parent Cafe Area	Full Bodied Porcelain Tiles / Optional carpet tile inlay	Wash & Wear paint with accent lacquer / timber walls panels + Wall graphics	Specialist Ceiling Finishes / Painted gypsum boards with shadow gaps / Cove lighting	Kitchen Joinery
3.	General Classrooms / Maths Labs / Primary Reading Rooms / Specialist Teaching Rooms (without wash basin) / Language Classrooms / Seminar Rooms	Resilient Vinyl flooring. Natural Colours eg, Oak. Slip resistance to be at least R9	Wash & Wear paint with accent colours as per designer's discretion. Glazed Screen adjacent to solid doorset	As General Classroom + suspended ceiling sound absorbers (baffles)/ Demountable budget acoustic tiles / gypsum board / Ceiling to have Class A sound absorption	Pin boards / Lockers + Built-In Teacher Storage
4.	Special Education Needs Centre	Resilient Vinyl flooring. Natural Colours eg, Oak. Slip resistance to be at least R9	Wash & Wear paint with accent colours as per designer's discretion. Glazed Screen adjacent to solid doorset	As General Classroom	As General Classroom
5.	Science Labs (Biology, Chemistry, Physics, General) / Science Prep Rooms / Chemical Stores	Chemical & stain resistant flooring such as Vinyl or Full Bodied Porcelain. Slip resistance to be at least R9	Wash & Wear paint with accent colours as per designer's discretion. Glazed Screen adjacent to solid doorset	As General Classroom	As General Classroom to include 4 large sinks
6.	Art Labs	Chemical & stain resistant flooring such as Vinyl or Full Bodied Porcelain. Slip resistance to be at least R9	Wash & Wear paint with accent colours as per designer's discretion. Glazed Screen adjacent to solid doorset	As General Classroom	As General Classroom, include 2 large sinks
7.	Pottery Kiln	Refer to specialist supplier / brief	Refer to specialist supplier / brief	Refer to specialist supplier / brief	Refer to specialist supplier / brief
8.	Music Rooms / Music Practice Rooms	Impact sound flooring such as carpet tiles installed with VOC free adhesive	Acoustic absorber and diffuser wall panels / Acoustic glass vision panels	Demountable budget acoustic tiles / gypsum board / Ceiling to have Class A sound absorption	As General Classroom
9.	Digital Technology Suite / Mac Lab / Server Rooms	Anti-static flooring / Raised Floor (Refer to MEP / Specialist Consultant for specification)	As General Classroom	Refer to MEP / Specialist Consultant for specification	Refer to MEP / Specialist Consultant for specification
11.	Library / Reading & Study Rooms / Conference Rooms / Staff Common Room / Staff Work Rooms	Impact sound flooring: Carpet tiles installed with VOC free adhesive	As General Classroom	As General Classroom	Refer to project specific FF&E brief
Engineering / Design Technology Spaces					
12.	Design Tech / Workshops / Engineering / Resistant Materials / Graphics / Textiles	Slip resistant flooring such as Rubber / Vinyl / Full Bodied Porcelain / Sealed concrete. Slip resistance to be at least R9	As General Classroom	As General Classroom	Refer to project specific FF&E brief / Include washbasins
13.	Food Technology / Food Prep & Stores	Antimicrobial homogeneous Vinyl floor. Slip resistance to be at least R11	Antimicrobial ceramic tile	Demountable budget smooth finish (unperforated) metal tiles	Refer to project specific FF&E brief
IT / AV Specialist Spaces					
14.	Media Suite / Recording Studio / Radio Studio / Editing Suite	Refer to IT-AV Specialist for specification	Refer to IT-AV Specialist for specification	Refer to IT-AV Specialist for specification	Refer to IT-AV Specialist for specification
15.	IDF / Server Room	Refer to MEP / Specialist for specification	Refer to MEP / Specialist for specification	Refer to MEP / Specialist for specification	Refer to MEP / Specialist for specification
16.	ICT support Rooms	Refer to MEP / Specialist for specification	Refer to MEP / Specialist for specification	Refer to MEP / Specialist for specification	Refer to MEP / Specialist for specification
Sports Facilities / Multi-purpose Halls / Theatres					
17.	Sports Hall	Shock absorbing sports floor; Specialist Rubber floor	Class D absorbent wall panels up to 3m from FFL + corner protectors	Class C absorbent perforated roof liner / sound absorber to underside of soffit	Refer to project specific brief
18.	Dance & Aerobic Studio (without machines)	Timber sprung floor	Class D absorbent wall panels up to 3m from FFL + corner protectors + 1 shatterproof mirror wall + applique bar	Class C absorbent ceiling / sound absorber to underside of soffit	Refer to project specific brief
19.	Gym (with fitness machines)	Shock absorbing sports floor; Specialist Rubber floor	Wash & Wear wall paint + one wall with shatterproof mirror	Class C absorbent ceiling / sound absorber to underside of soffit	Refer to project specific brief
20.	Multipurpose Hall	Shock absorbing sports floor; Specialist Rubber floor	Class D absorbent wall panels up to 3m from FFL + corner protectors	As Sport Hall	Refer to project specific brief
21.	Black Box Room (flexible performance space)	Rubber / Vinyl / homogeneous floor finish	Wash & Wear black paint finish to gym / blockwork substrate	Black paint finish to soffit of slab	Refer to project specific brief

175 King's College, Muscat **VERITAS** **ideas**  **world**

KING'S COLLEGE MUSCAT: MEP REQUIREMENTS															
Standard Room Requirements															
S.No	Room Name	Principal Function	Devices In the Rooms	Power		Data		Plumbing		Lighting (CIBSE Lighting Guide 5)			Acoustic Insulation (STC)		Comments
				Type	No	Type	No	Type	No	Maintained Illuminance (Lux)	Limiting Glare Rating	Minimum Colour Rendering (Ra)	Adjoining Non-sensitive Occupancy	Adjoining Sensitive Occupancy	
1.00	CLASSROOMS														
1.01	Classroom	General Teaching	Interactive Flat Panel 72" Docking Station Teacher's Laptop Wireless Accesspoint	13A Sockets	7	RJ 45 Cat 6/Cat6A Sockets	4	Water / Sinks to Year 1 to 4 Classrooms		Daytime - 300 Evening / Adult Ed - 500	19	80	40-45	45-50	
1.02	Specialist Teaching / Activity Room	General Teaching	Interactive Flat Panel 72" Docking Station Teacher's Laptop Wireless Accesspoint	13A Sockets	7	RJ 45 Cat 6/Cat6A Sockets	4			Daytime - 300 Evening / Adult Ed - 500	19	80	40-45	45-50	
1.03	Drama Classroom	Drama Teaching	Interactive Flat Panel 72" Docking Station Teacher's Laptop Wireless Accesspoint	13A Sockets	7	RJ 45 Cat 6/Cat6A Sockets	4			300	19	80	40-45	55-60	
1.04	Seminar Room	General Teaching	Interactive Flat Panel 72" Docking Station Teacher's Laptop Wireless Accesspoint	13A Sockets	7	RJ 45 Cat 6/Cat6A Sockets	4			Daytime - 300 Evening / Adult Ed - 500	19	80	40-45	45-50	
1.05	Specialist Language Rooms	Language Teaching	Interactive Flat Panel 72" Docking Station Teacher's Laptop Wireless Accesspoint	13A Sockets	7	RJ 45 Cat 6/Cat6A Sockets	4			Daytime - 300 Evening / Adult Ed - 500	19	80	40-45	45-50	
2.00	SHARED LEARNING / BREAK OUT SPACE														
2.01	Shared Learning / Breakout Areas	Collaborative Learning	Interactive Flat Panel 72"	13A Sockets	8	RJ 45 Cat 6/Cat6A Sockets	6			300	19	80	-	45-50	
2.02	Library	Group work/ research	Touchscreen Desktops / Laptops	13A Sockets	15	RJ 45 Cat 6/Cat6A Sockets	6			300	19	80	40	45	As Shared Learning Area
2.03	Common Rooms	Group work/ research/ Social Space	Projector	13A Sockets	20	RJ 45 Cat 6/Cat6A Sockets	6	Water/Sinks		200	22	80	40-45	45-50	
3.00	SPECIALIST AREAS														
3.01	Design Technology	Design	Interactive Flat Panel 72" Docking Station Teacher's Laptop Wireless Accesspoint	13A Sockets + 3 Phase Power to resistant mats workshop	8	RJ 45 Cat 6/6A Sockets	4	Water / Sinks		500	19	80	40	50	Possible 3D Printer depending on curriculum offer
3.02	Food Technology / Textiles / Graphics	Design	Interactive Flat Panel 72" Docking Station Teacher's Laptop Wireless Accesspoint	13A Sockets	12	RJ 45 Cat 6/6A Sockets	6	Water / Sinks		500	19	80	40	50	
3.03	Language Rooms	Oral / Interview Room		13A Sockets	4	RJ 45 Cat 6/6A Sockets	2			Daytime - 300 Evening / Adult Ed - 500	19	80	40-45	45-50	
3.04	Science Laboratory	Practical Science (Class of 25)	Touchscreen Student's Laptop	13A Sockets (Most in specialist lab supply system)	32	RJ 45 Cat 6/Cat6A Sockets	4	Water / Sinks Gas Supply		500	19	80	40	50	Plus conduit for fibre optic cable from server
3.05	Sc. Prep Room	Science Preparation		13A Sockets	8	Data Socket	2	Water / Sinks Gas Supply		500	19	80	-	40	
3.06	Art Room	Practical Art	Interactive Flat Panel 72" Docking Station Teacher's Laptop Wireless Accesspoint	13A Sockets	8	Data Socket	4	Water/Sinks		500	19	80	40	50	
3.07	Kiln Room	Practical Art		13A Sockets	6			Water/Sinks		500	19	80	40	50	
3.08	Clay Store	Clay Storage and prep		13A Sockets	2			Water/Sinks		100	25	80	-	40	
3.09	ICT Suite	Teaching of ICT (Class of 24)	Interactive Flat Panel 72" Docking Station Teacher's Laptop Wireless Accesspoint	13A Sockets	30	Data Socket	27			300	19	80	40-45	45-50	
3.10	Multi Media / Mac Lab	Film/ Media	Interactive Flat Panel 72", Printer Docking Station Teacher's Laptop Wireless Accesspoint	13A Sockets	24	Data Socket	15			300	19	80	40-45	55-60	
3.11	ICT Store	ICT Store / Service		13A Sockets	4	Data Socket	2			100	25	80	-	40	

KING'S COLLEGE MUSCAT: MEP REQUIREMENTS															
Standard Room Requirements															
S.No	Room Name	Principal Function	Devices in the Rooms	Power		Data		Plumbing		Lighting (CIBSE Lighting Guide 5)			Acoustic Insulation (STC)		Comments
				Type	No	Type	No	Type	No	Maintained Illuminance (Lux)	Limiting Glare Rating	Minimum Colour Rendering (Ra)	Adjoining Non-sensitive Occupancy	Adjoining Sensitive Occupancy	
3.12	Conference	Dedicated VC Room	Video Conferencing Codec Camera LED TV Conference Phone Curtain Motor Control (if any)	13A Sockets	6	Data Socket	4			300	19	80	40-45	45-50	
3.13	Music Classroom	Practical Music	Interactive Flat Panel 72" Docking Station Teacher's Laptop Wireless Accesspoint	13A Sockets	14	Data Socket	4			300	19	80	40-45	55-60	Provision for Keyboards
4.00	OFFICES														
4.01	Primary Leader Office	Staff Work/ Meeting	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.02	Support Staff Area	Staff Work/Social Space	Desktops / Laptops Telephone Printer Wireless Accesspoint	13A Sockets	8	RJ 45 Cat 6/6A Sockets	4			300	19	80	40-45	45-50	Shared Office
4.03	Key Stage Leader	Staff Work/ Meeting	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.04	Head Teacher	Office	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.05	Head's PA	Office	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	4			300	19	80	40-45	45-50	Single Office
4.06	Deputy Head	Office	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.07	Exam Office	Staff Work/ Meeting	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.08	Operations Office	Office	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.09	Accounts Office	Office	Desktops / Laptops Telephone Printer Credit Card Machines Fax Machine	13A Sockets	10	RJ 45 Cat 6/6A Sockets	8			300	19	80	40-45	45-50	Shared Office
4.10	Registrar Room	Staff Work/ Meeting	Desktops / Laptops Telephone Printer Fax Machine	13A Sockets	8	RJ 45 Cat 6/6A Sockets	4			300	19	80	40-45	45-50	Shared Office
4.11	IT Manager Office	Office	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.12	School Tranport Office	Office	Desktops / Laptops Telephone Printer Credit Card Machines	13A Sockets	6	RJ 45 Cat 6/6A Sockets	5			300	19	80	40-45	45-50	Single Office
4.13	FM Office	Office	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office

KING'S COLLEGE MUSCAT: MEP REQUIREMENTS															
Standard Room Requirements															
S.No	Room Name	Principal Function	Devices in the Rooms	Power		Data		Plumbing		Lighting (CIBSE Lighting Guide 5)			Acoustic Insulation (STC)		Comments
				Type	No	Type	No	Type	No	Maintained Illuminance (Lux)	Limiting Glare Rating	Minimum Colour Rendering (Ra)	Adjoining Non-sensitive Occupancy	Adjoining Sensitive Occupancy	
3.12	Conference	Dedicated VC Room	Video Conferencing Codec Camera LED TV Conference Phone Curtain Motor Control (if any)	13A Sockets	6	Data Socket	4			300	19	80	40-45	45-50	
3.13	Music Classroom	Practical Music	Interactive Flat Panel 72" Docking Station Teacher's Laptop Wireless Accesspoint	13A Sockets	14	Data Socket	4			300	19	80	40-45	55-60	Provision for Keyboards
4.00	OFFICES														
4.01	Primary Leader Office	Staff Work/ Meeting	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.02	Support Staff Area	Staff Work/Social Space	Desktops / Laptops Telephone Printer Wireless Accesspoint	13A Sockets	8	RJ 45 Cat 6/6A Sockets	4			300	19	80	40-45	45-50	Shared Office
4.03	Key Stage Leader	Staff Work/ Meeting	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.04	Head Teacher	Office	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.05	Head's PA	Office	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	4			300	19	80	40-45	45-50	Single Office
4.06	Deputy Head	Office	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.07	Exam Office	Staff Work/ Meeting	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.08	Operations Office	Office	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.09	Accounts Office	Office	Desktops / Laptops Telephone Printer Credit Card Machines Fax Machine	13A Sockets	10	RJ 45 Cat 6/6A Sockets	8			300	19	80	40-45	45-50	Shared Office
4.10	Registrar Room	Staff Work/ Meeting	Desktops / Laptops Telephone Printer Fax Machine	13A Sockets	8	RJ 45 Cat 6/6A Sockets	4			300	19	80	40-45	45-50	Shared Office
4.11	IT Manager Office	Office	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office
4.12	School Transport Office	Office	Desktops / Laptops Telephone Printer Credit Card Machines	13A Sockets	6	RJ 45 Cat 6/6A Sockets	5			300	19	80	40-45	45-50	Single Office
4.13	FM Office	Office	Desktops / Laptops Telephone Printer	13A Sockets	4	RJ 45 Cat 6/6A Sockets	3			300	19	80	40-45	45-50	Single Office

KING'S COLLEGE MUSCAT: MEP REQUIREMENTS															
Standard Room Requirements															
S.No	Room Name	Principal Function	Devices in the Rooms	Power		Data		Plumbing		Lighting (CIBSE Lighting Guide 5)			Acoustic Insulation (STC)		Comments
				Type	No	Type	No	Type	No	Maintained Illuminance (Lux)	Limiting Glare Rating	Minimum Colour Rendering (Ra)	Adjoining Non-sensitive Occupancy	Adjoining Sensitive Occupancy	
7.06	Store	Storage		13A Sockets	2		1			100	25	80	-	40	
7.07	Fitness Suite	Cardio / Weights		13A Sockets	16	Data Socket	2	Water / Sinks		300	22	80	40-45	55-60	
7.08	First Aid Station	First Aid		13A Sockets	4	Data Socket	2	Water / Sinks		500	19	80	40	50	
8.00	AREAS REQUIRING SPECIALIST FIT OUT														
8.01	Auditorium	Productions/ Assemblies								Subject to Specialist Advice					
8.02	Black Box	Drama Performances								Subject to Specialist Advice					
8.03	Recording Studio	Music Recording								Subject to Specialist Advice					
8.04	TV Studio	Media/ Film Teaching								Subject to Specialist Advice					
8.05	TV Control Room	TV Control								Subject to Specialist Advice					
8.06	Radio Studio	Control/ Broadcast								Subject to Specialist Advice					
8.07	Dining / Kitchen Areas	Dining / Serving								200	22	80			



END



KING'S COLLEGE, MUSCAT, SULTANATE OF OMAN