HKS

SHARING HEARTS ACROSS THE POND

HKS

A Dallas (HQ.)
B Abu Dhabi
C London
D Mexico City
E New Delhi
F Shanghai
G Singapore

24

HKS operates from 24 worldwide offices

1,400

Employees

Our vision is to be a global leader in professional design services, bringing **value** to clients through innovation while being committed to excellence, sustainability and sound business principles.

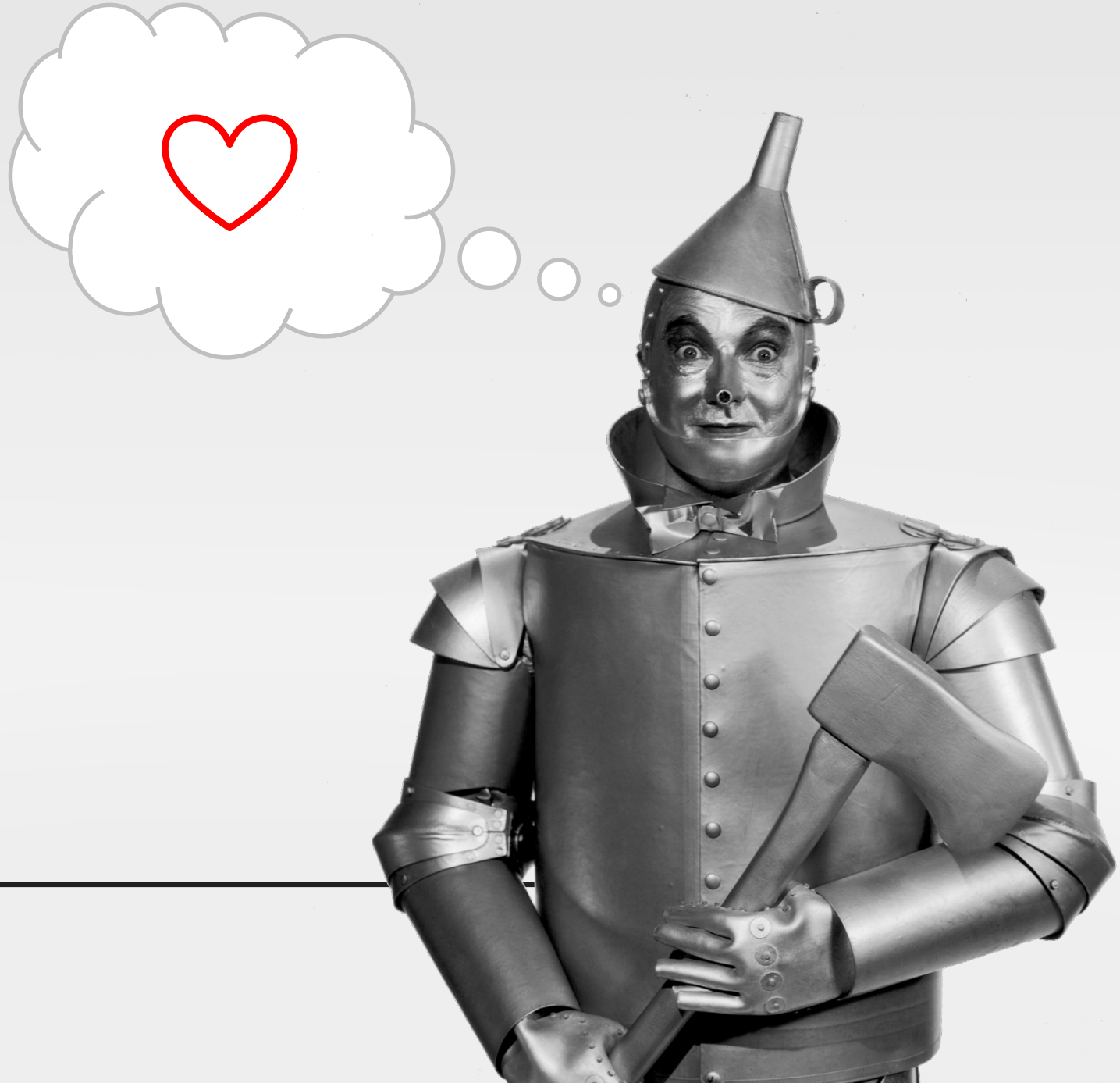
660

Design Awards

HKS

Health
Hospitality
Sports & Entertainment
Corporate
Education
UK
Africa
Europe
Middle East
SLIVERSTONE UTC
AVON COSMETICS HQ
THE CHRISTIE PROTON BEAM THERAPY CENTRE
UK
COPENHAGEN ARENA
DENMARK
HERMITAGE LUXURY HOTEL
SWITZERLAND
R.S.C ANDERLECHT
OLYMPIQUE DE MARSEILLE
BELGIUM
FRANCE
FAIRMONT TAGHAZOUT
MOROCCO
KUWAIT CHIDREN'S HOSPITAL
KUWAIT
TIANJIN QUANJIAN
CHINA
CLEVELAND CLINIC
DESERT WELLNESS RESORT
DUBAI CREEK MASTERPLAN
MEDICAL CITY OMAN
OMAN & UAE
PLAYA BAVARO RESORT
DOMINICAN REPUBLIC
PALVI HORIZONTI RESORT AND RESIDENCES
MONTENEGRO
NEW PERTH STADIUM
AUSTRALIA
ROD LAVER ARENA
AUSTRALIA

HKS



what does a heart mean to him?

HKS

…what does a heart mean for a school?

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SILVERSTONE UTC
BIONIC HEART

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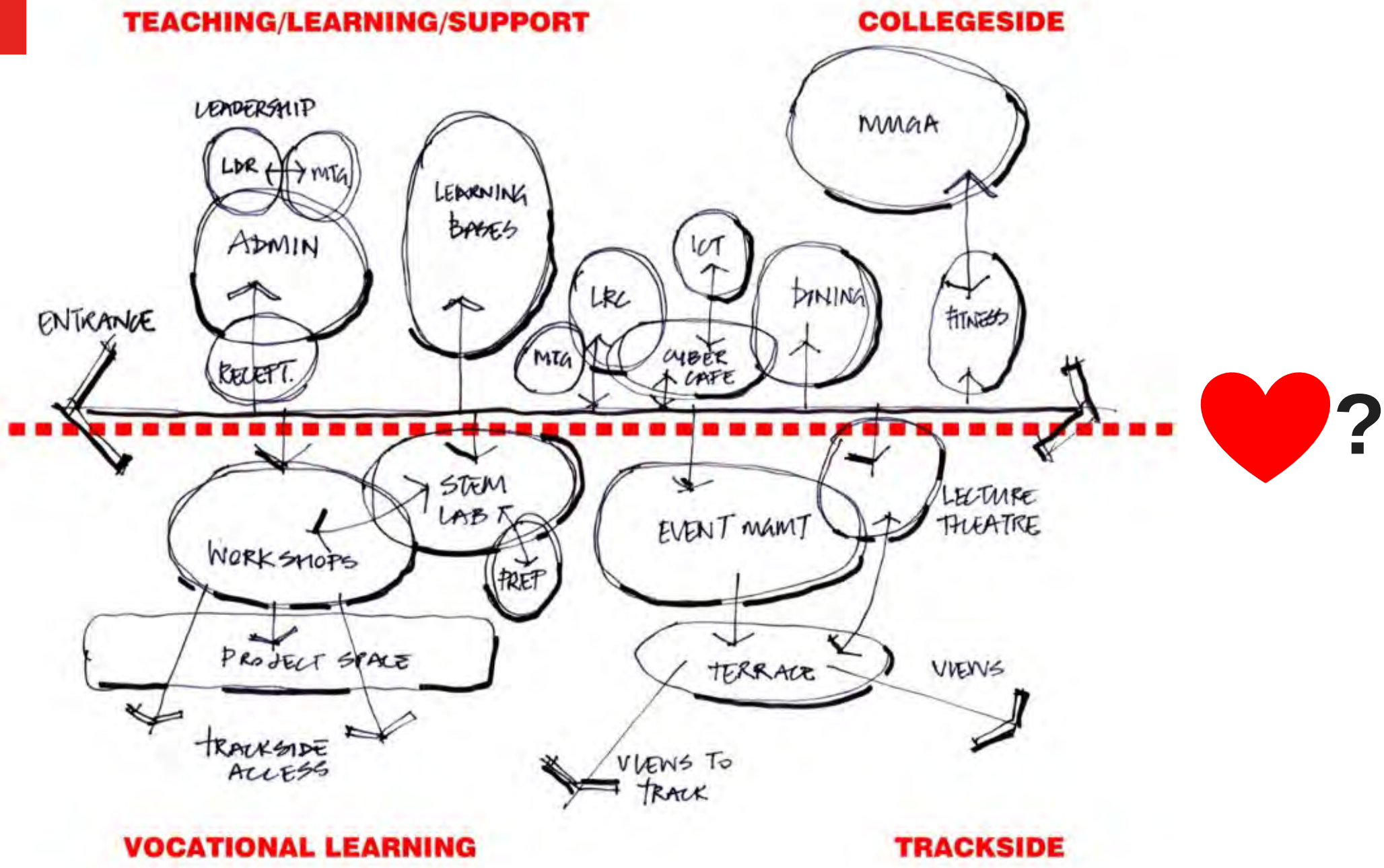
TEACHING/LEARNING/SUPPORT
COLLEGESIDE
LEADERSHIP
LDR
MTG
ADMIN
RECEPT.
ENTRANCE
LEARNING BASES
MMGA
ICT
LRC
MTG
CYBER CAFE
DINING
FITNESS
STEM LAB
PREP
WORKSHOPS
EVENT MGMT
LECTURE THEATRE
PROJECT SPACE
TERRACE
VIEWS
TRACKSIDE ACCESS
VIEWS TO TRACK
VOCATIONAL LEARNING
TRACKSIDE

?

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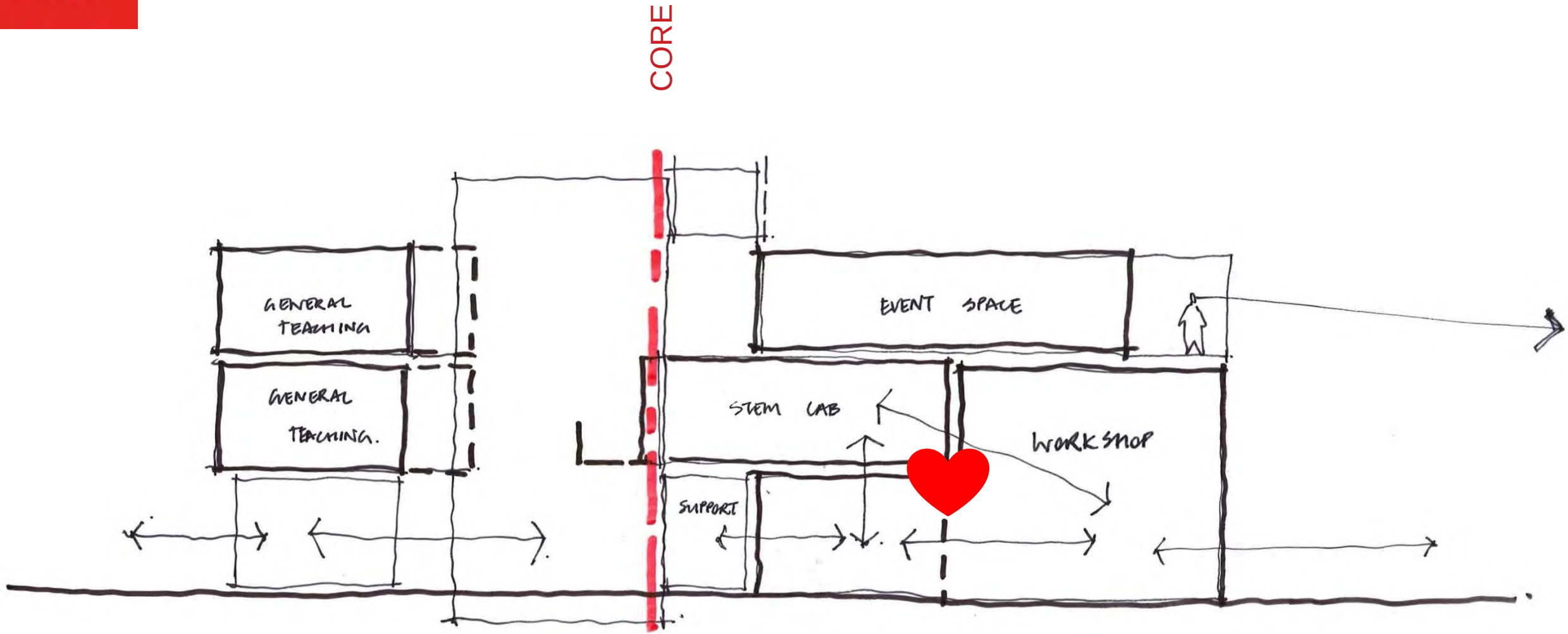
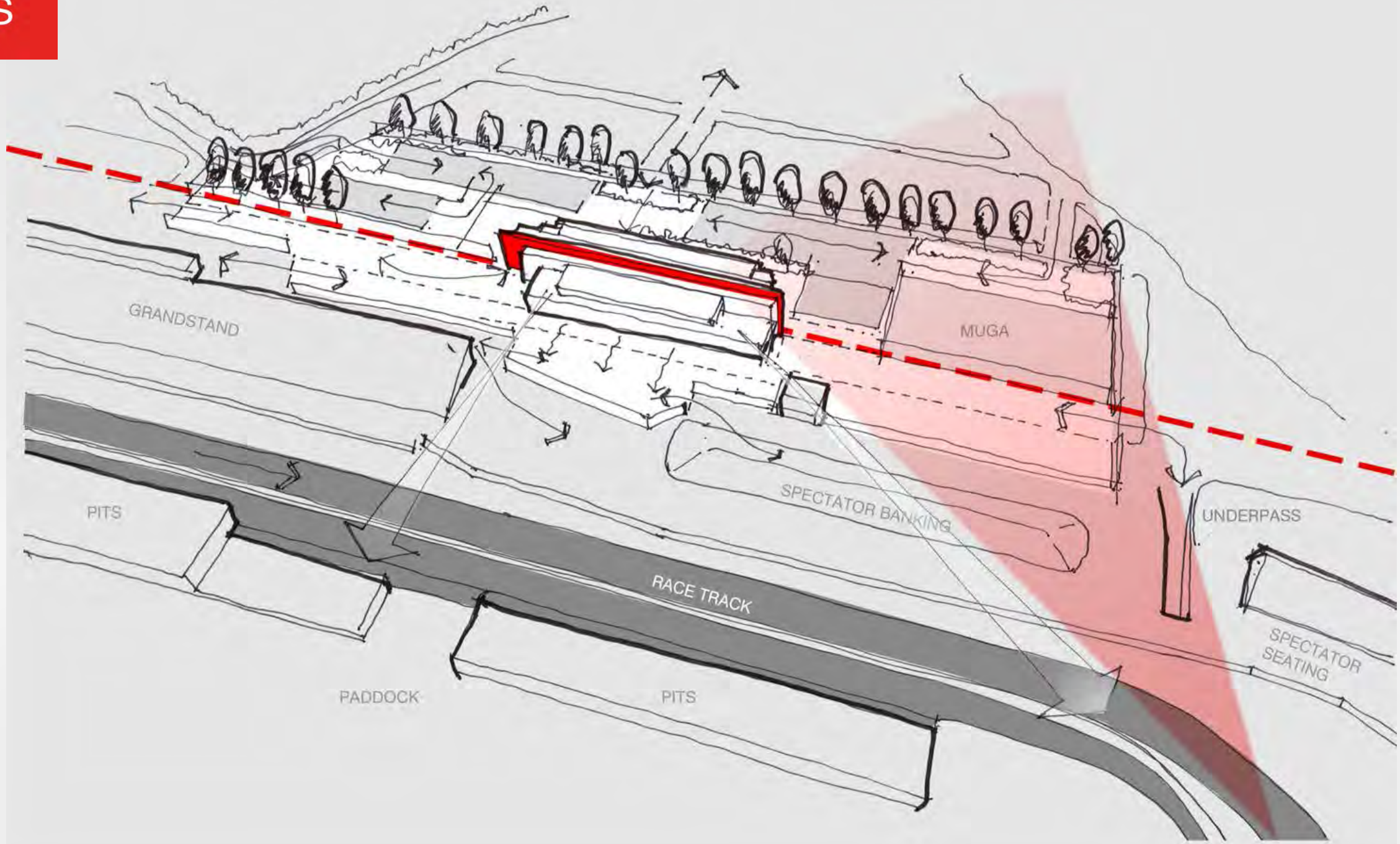

CORE
GENERAL TEACHING
GENERAL TEACHING.
EVENT SPACE
STEM LAB
WORKSHOP
SUPPORT
COLLEGESIDE
TRACKSIDE

HKS


GRANDSTAND
MUGA
PITS
SPECTATOR BANKING
UNDERPASS
RACE TRACK
SPECTATOR SEATING
PADDOCK
PITS

HKS

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HKS

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PRIESTMEAD SCHOOL
HEART TRANSPLANT

HKS

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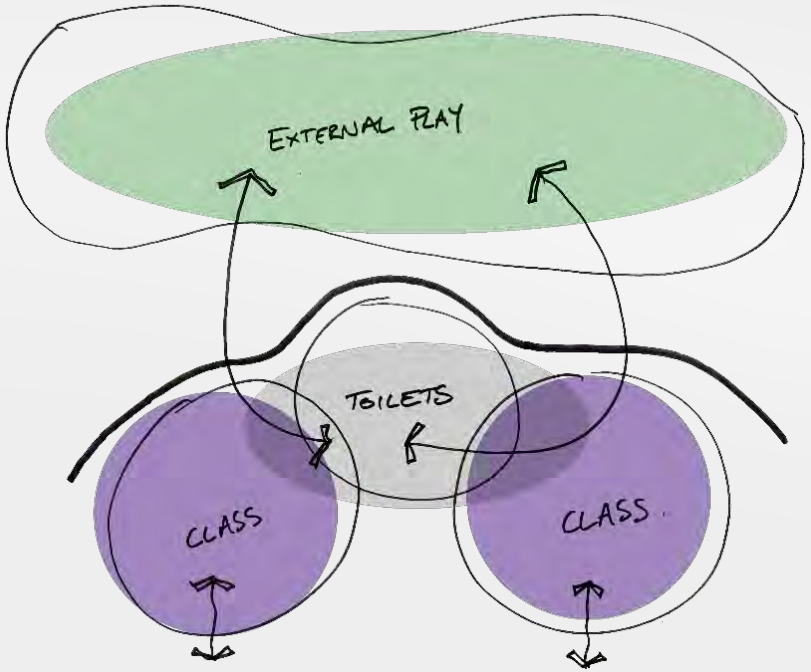
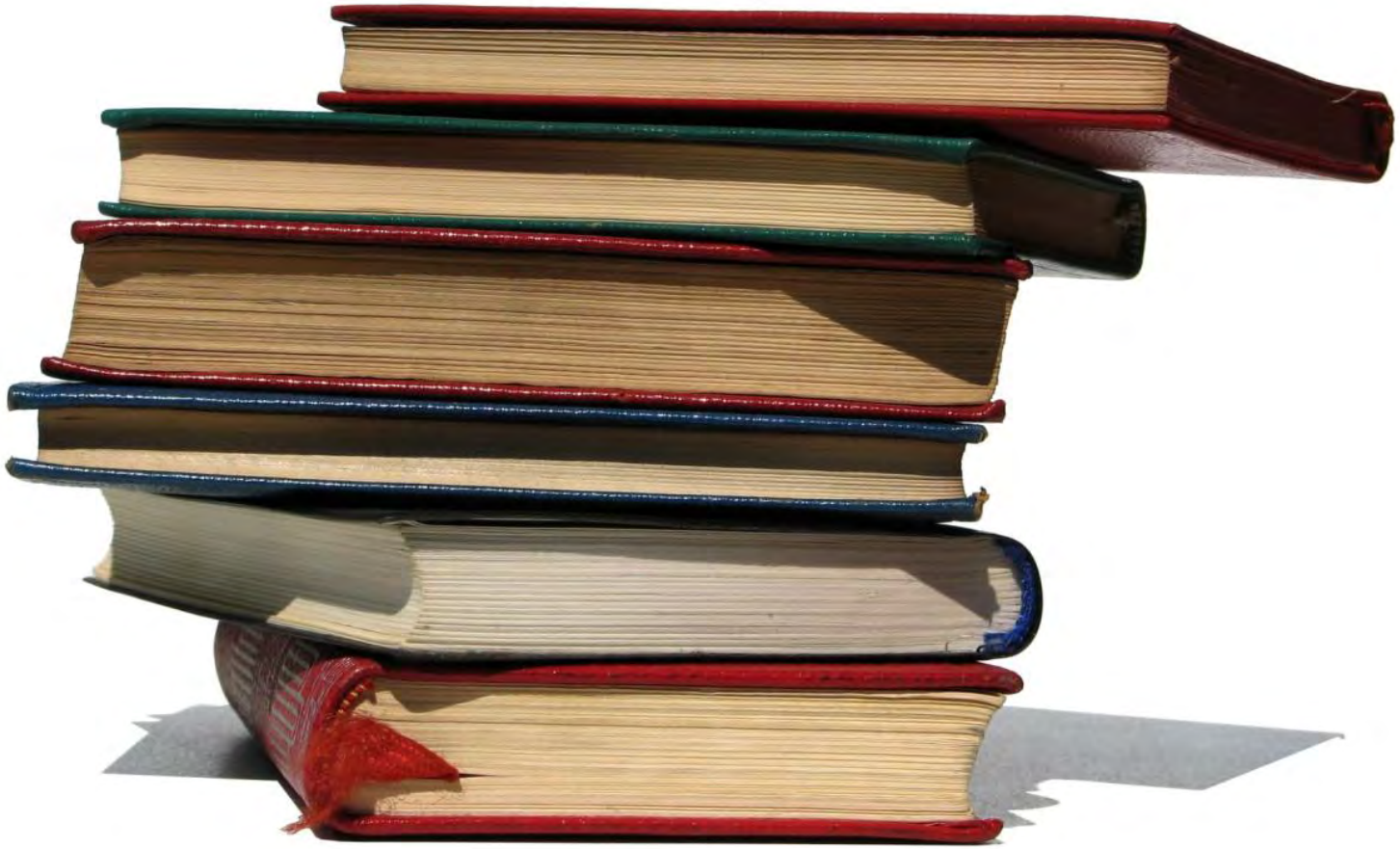
RECEPTION CLASS 01
STAIR
CENTRAL ADMINISTRATION
YEAR 1 CLASS 01
WCs
STAIR
YEAR 1 CLASS 02
YEAR 1 CLASS 03
WCs
YEAR 1 CLASS 04
WCs
RECEPTION CLASS 02
STAFF ROOM
RECEPTION
LOBBY
WCs
STORE
STORE
GRP
GRP
DINING ST
GRP
AHT
STUDIO ST
LARGE HALL
DINING / HALL
STUDIO
RECEPTION CLASS 03
GRP
RECEPTION CLASS 04
NURSERY
ASD / SEN ADMIN
STAIR
ST & GRP
SENSORY T/O ROOM STORES
CH St
RECEPT
LOBBY
ASD 01
WCs
ASD 02
Extend Dining
+ Stair Head
Plant
Wait


EXTERNAL PLAY
TOILETS
CLASS
CLASS

HKS

HKS

ANDREW MARVEL COLLEGE
MULTIPLE HEARTS



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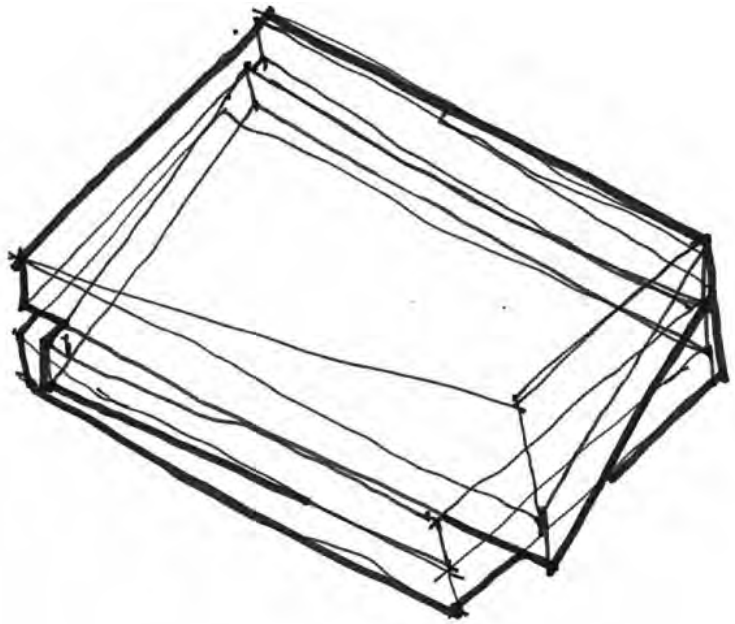
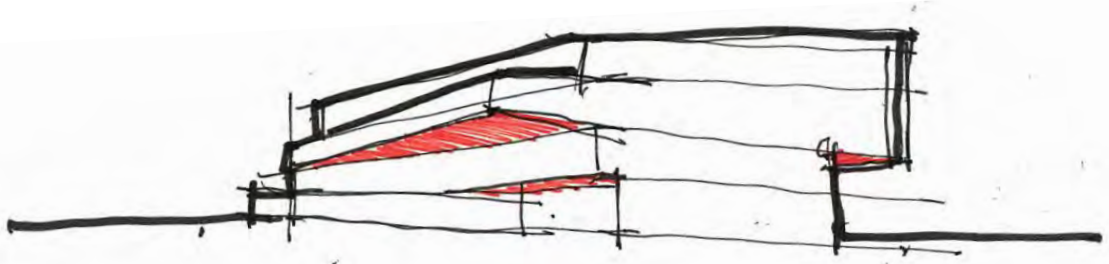
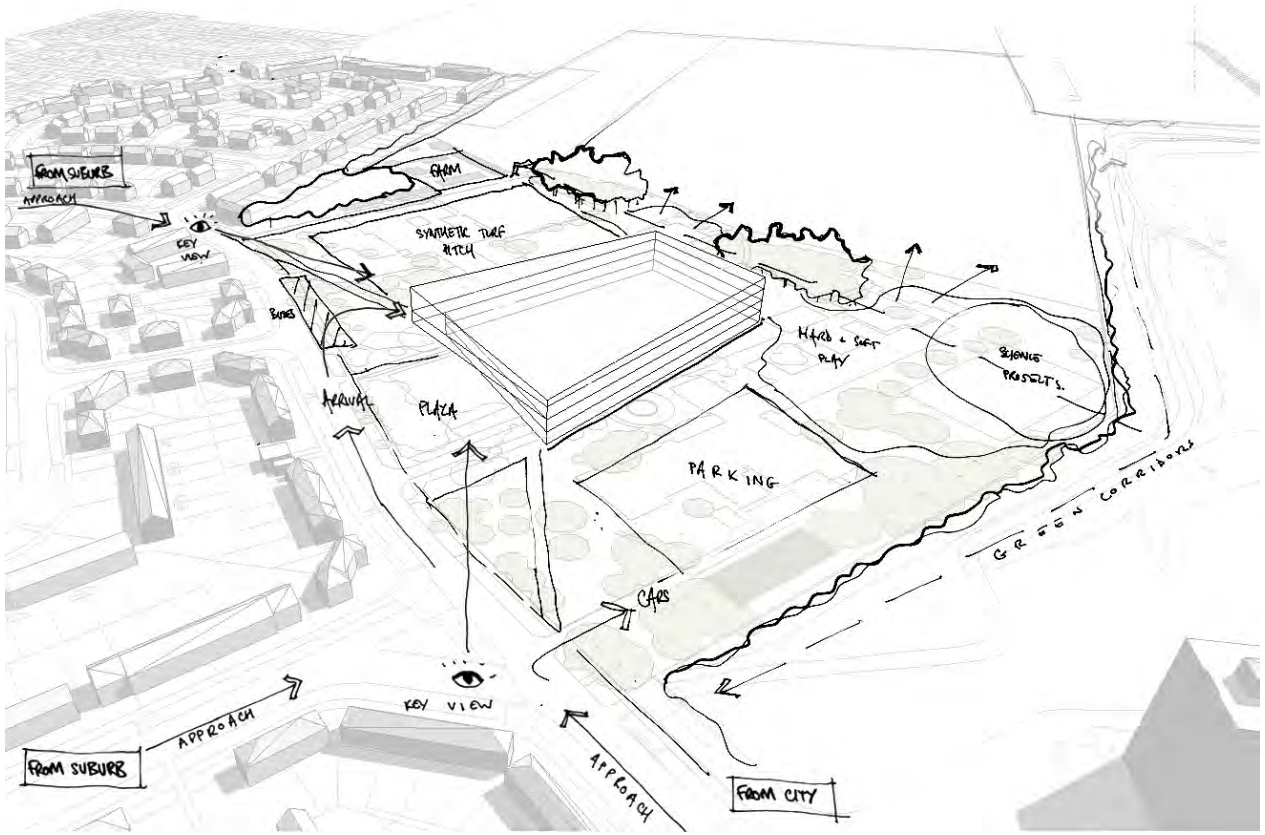
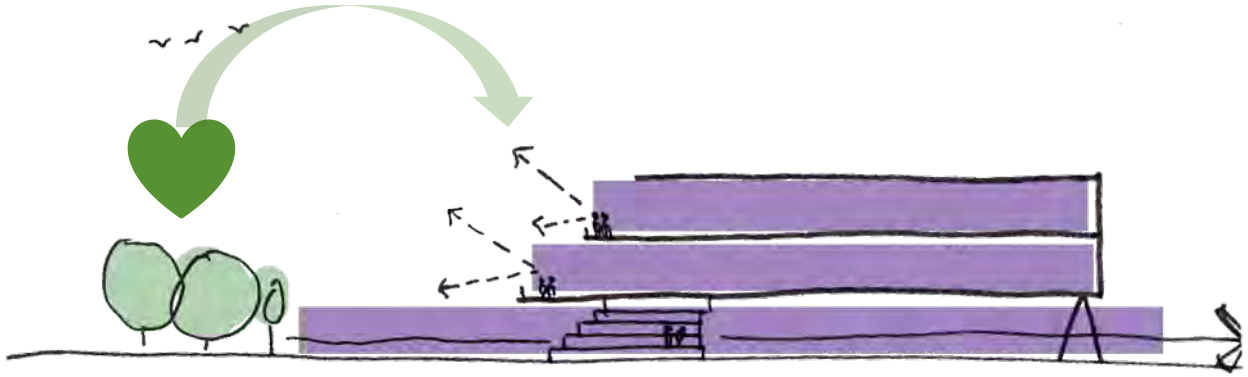





FROM SUBURB
APPROACH
KEY VIEW
FARM
SYNTHETIC TURF PITCH
BUNDS
MULTI-USE PLAY
BIOMASS PROJECTS
ARRIVAL
PLAZA
PARKING
GREEN CORRIDORS
CARS
KEY VIEW
APPROACH
FROM SUBURB
APPROACH
FROM CITY



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Double height
Art with roof light
Views into Sport
First floor Sports
Viewing /
Project terraces
Feature stair
Visibility of services
Dining link to outside

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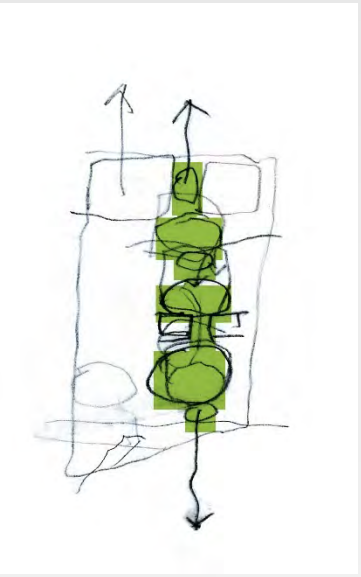
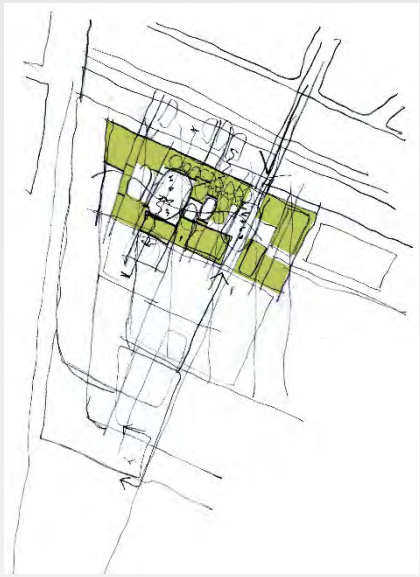
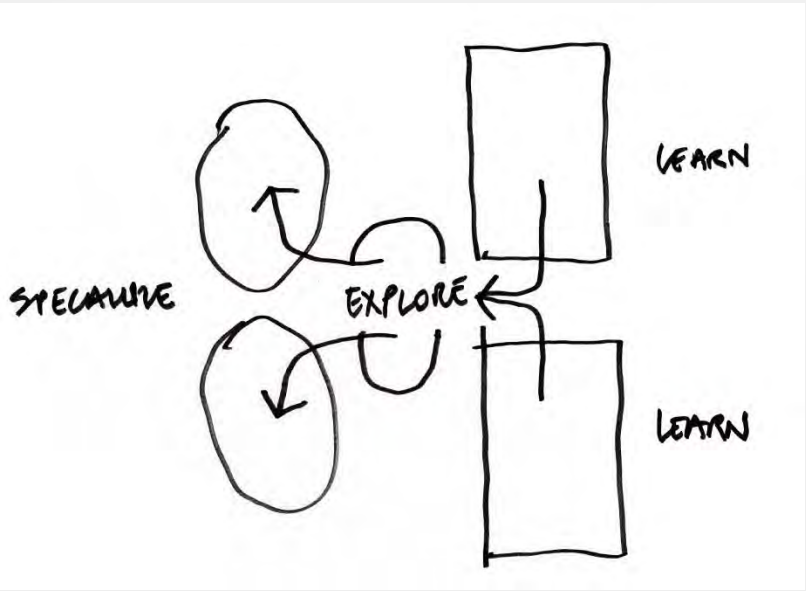
ASA ACADEMY

HEART & SOUL







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HKS

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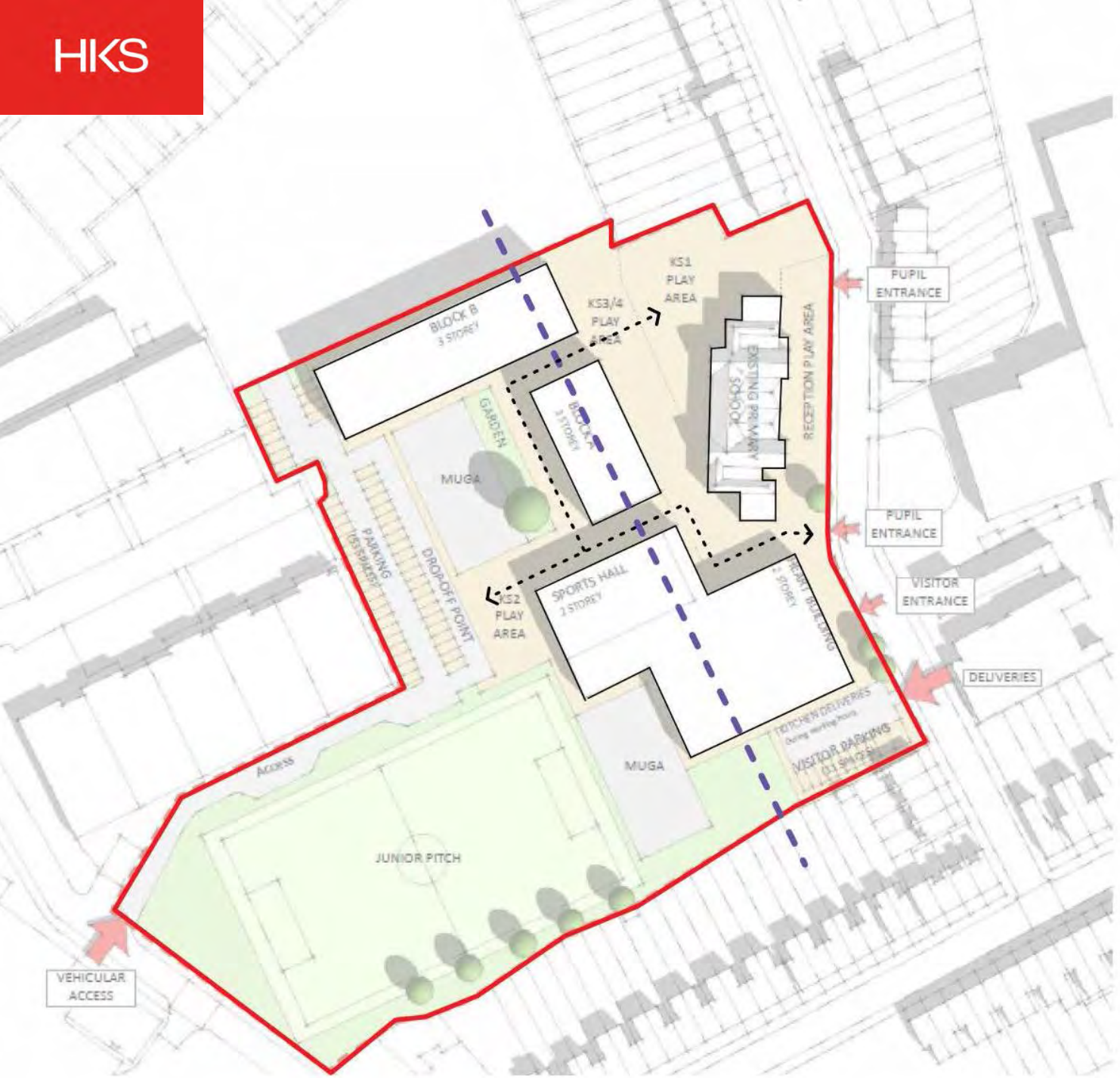
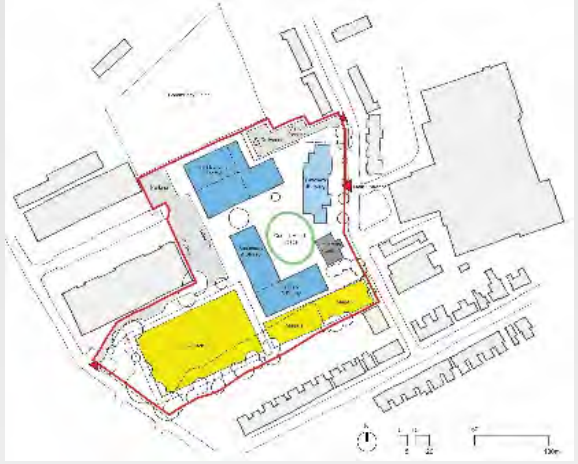
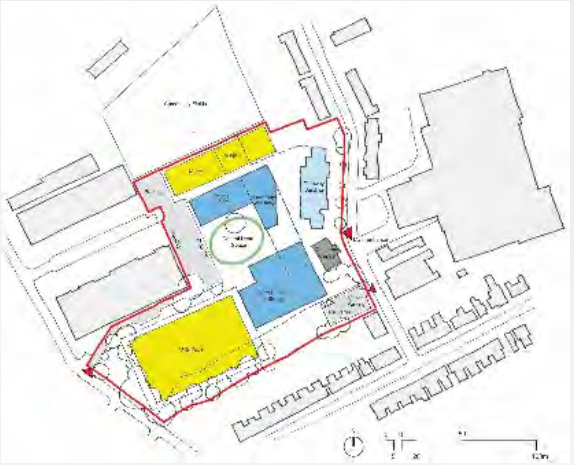
WHITEFRIARS COMMUNITY SCHOOL

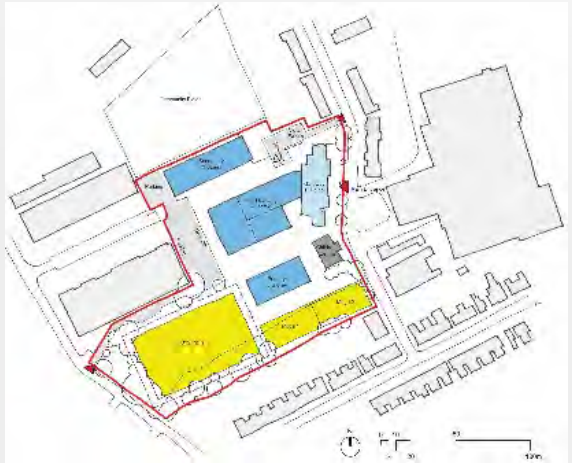
HEART BYPASS

HKS


KS1 PLAY AREA
KS3/4 PLAY AREA
BLOCK B 3 STOREY
BLOCK A 3 STOREY
EXISTING PRIMARY SCHOOL
RECEPTION PLAY AREA
PUPIL ENTRANCE
PUPIL ENTRANCE
VISITOR ENTRANCE
DELIVERIES
GARDEN
MUGA
PARKING (55 SPACES)
DROP-OFF POINT
KS2 PLAY AREA
SPORTS HALL 2 STOREY
MUGA
KITCHEN DELIVERIES
VISITOR PARKING
Access
JUNIOR PITCH
VEHICULAR ACCESS







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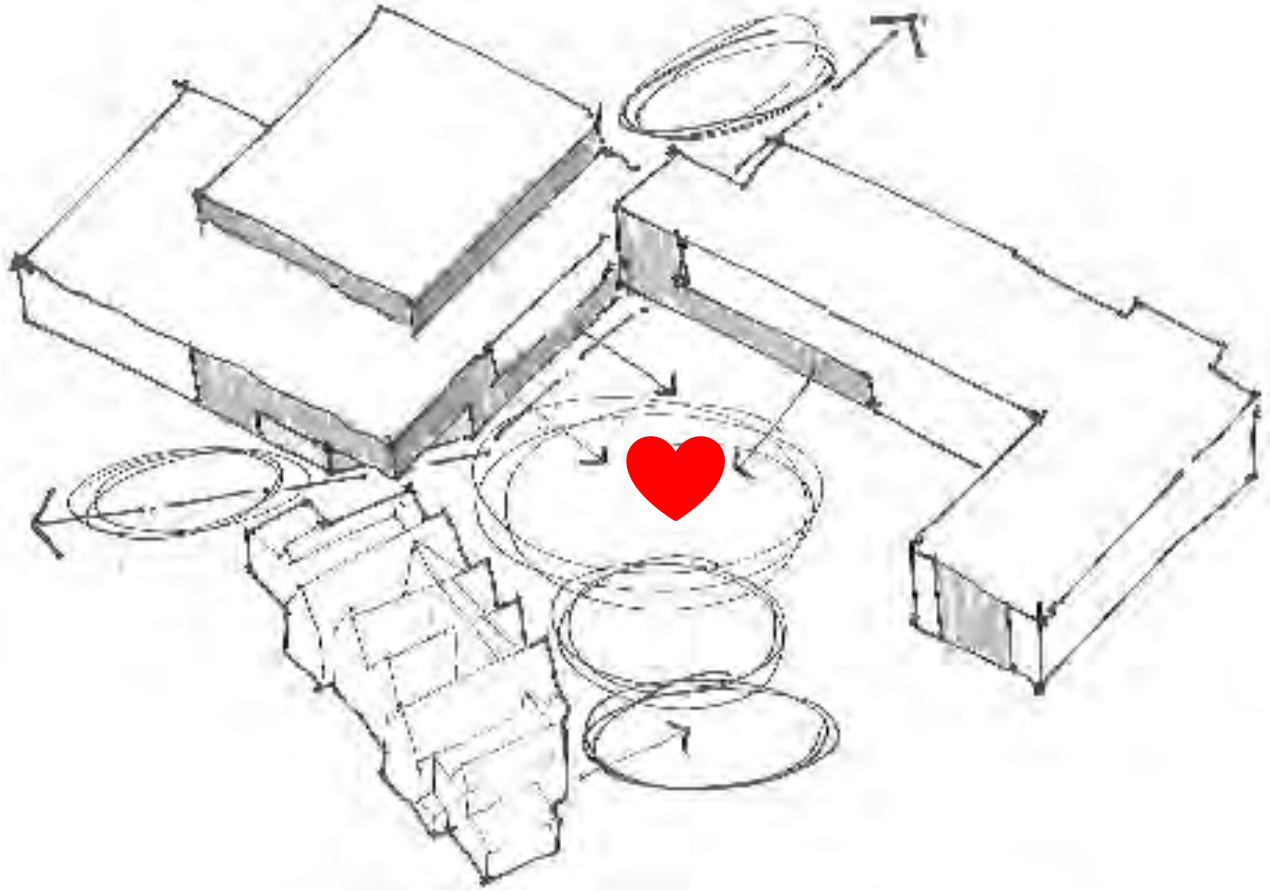
Community Fields
Muga 2
KS1
KS2
Primary School
RP
Parking
3 Storey
KS3/4
Parking
Drop Off
Main Entrance
CC
Heart Building 2 Storey
Nursery/ Childrens Centre
Visitor Parking
Deliveries
Muga 1
U12 Pitch
N
0
10
50
5
20
100m



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Whitefriars School

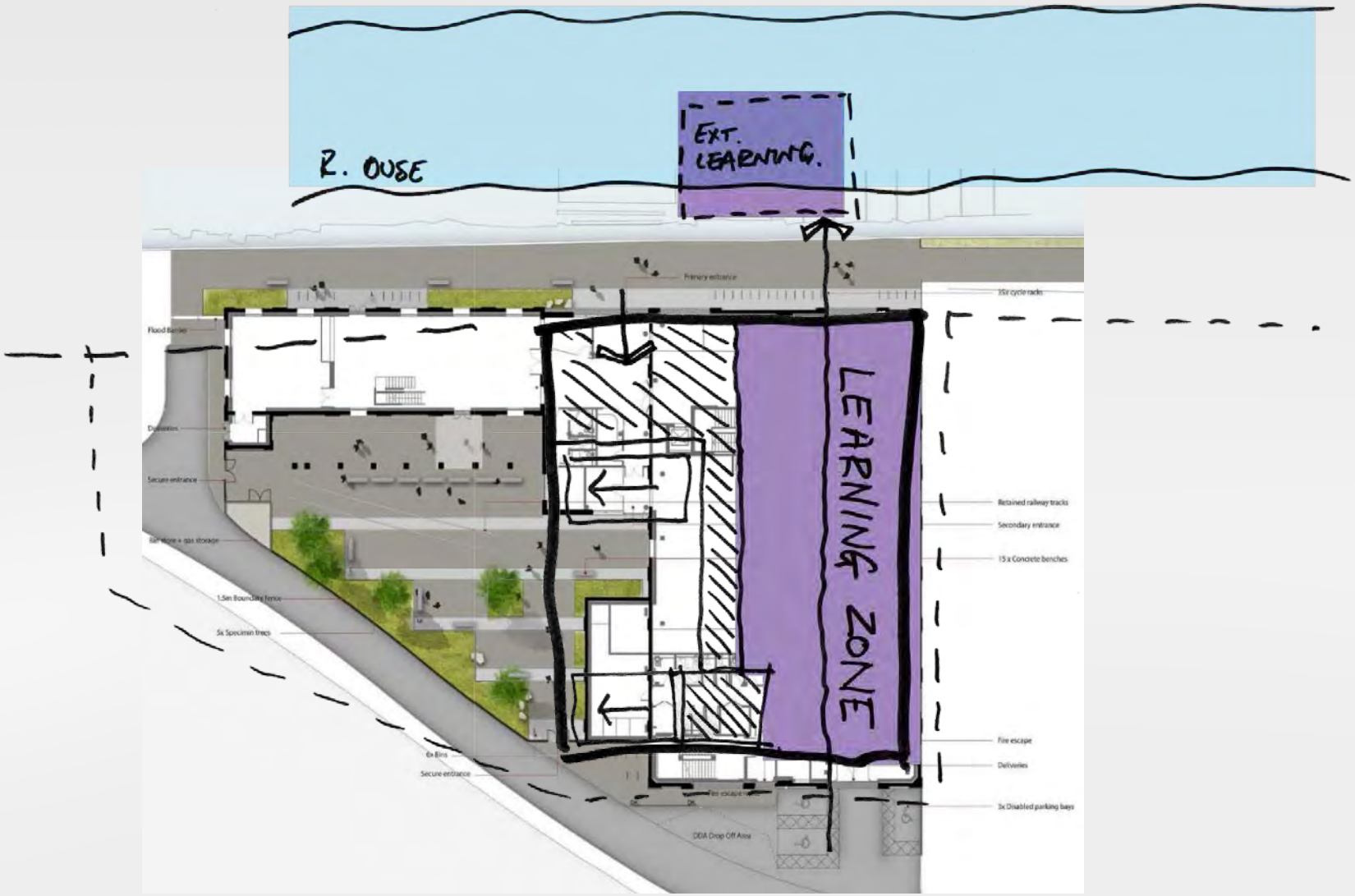
Food

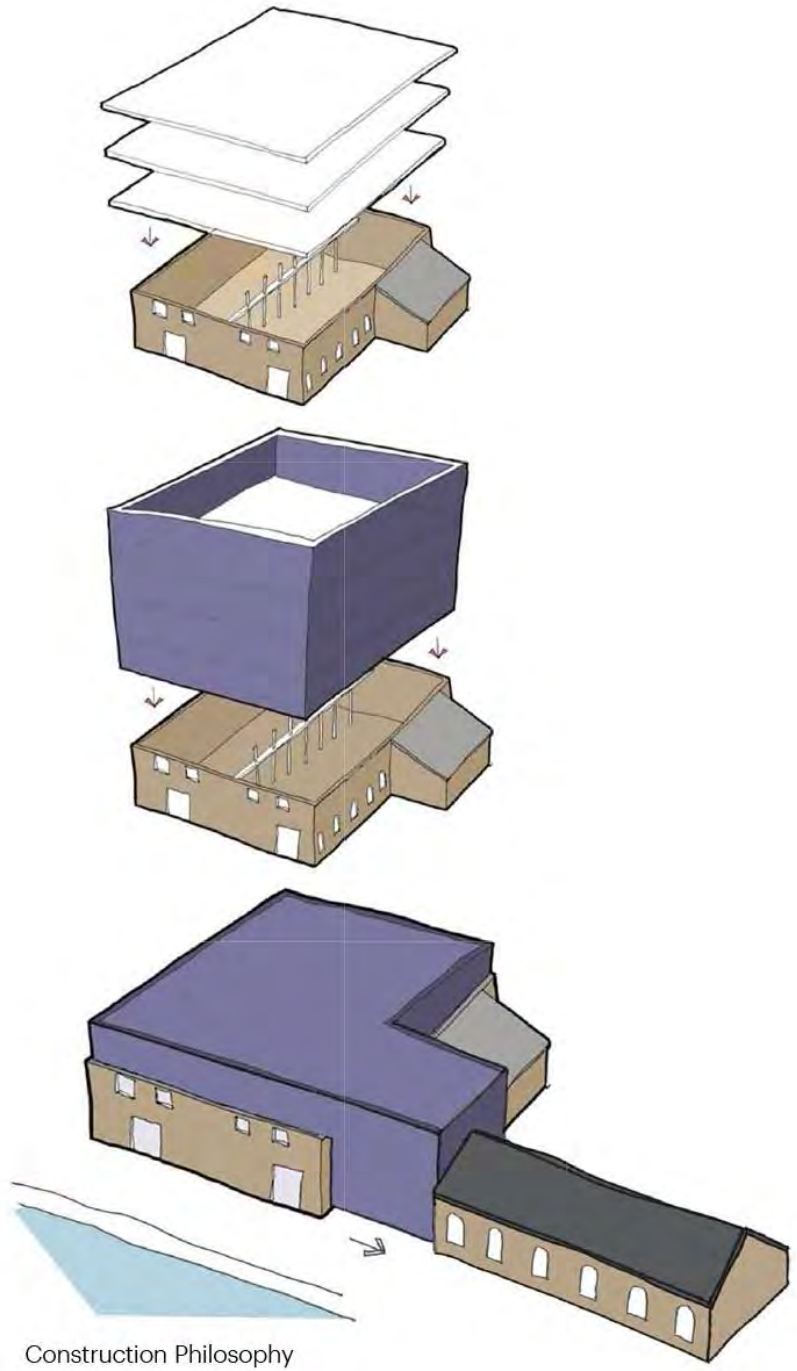
1
Heart Building
Sixth Form
Learning Resources Centre
Meeting/Training Rooms
Toilets

HKS

NEWHAVEN UTC
HEART RESUSCITATION

HKS





Construction Philosophy

HKS

HOVE SCHOOLS
HEART TRANSFUSION

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Path
Proposed Senior Football Pitch
markings dimensions as per existing
pitch
90m x 45.5m
no run off
Proposed Mini soccer U9 and U10 (7v7)
45.5 x 36.5m yards 7'x16' goal
no run off
6 wicket cricket with restricted junior
(37m max) outfield
Proposed Mini soccer U9 and U10 (7v7)
45.5 x 36.5m yards 7'x16' goal
no run off
10 x 10m training grid
MUGA
3x netball / 3x basketball / 3x tennis
1 x 5 aside football 36.5 x 27.4m
overlaid with no run off
3 bay cricket practice enclosure - funded
by others
8 lane 100m athletics sprint track
new gateway - final position to be
confirmed to allow level access. May
require offsite works to connect to
external footpath by others
Cycle
Store
for 10
bikes
1no. external tap
new gateway
ACD
PLAY
AREA
1no. external tap
location for a potential
future shelter, to be
provided by others
External
Dining
1no. external tap
1no. external tap
line of building
canopy above
KS1 PLAY
AREA
EXISTING HABITAT
AREA RETAINED
RECEPTION
PLAY AREA
Buggy Store
Existing trees to have dead
wood removed and be
crown lifted as appropriate
Bike / Scooter
Store for
20 bikes
2YR
OLD
AREA
1no. external tap
NURSERY
PLAY AREA
Relocated PE store
Bin Store with
electrical supply
and 1no. external
tap
Cycle
Store
for 30
bikes
Bin Store with
1no. external
tap
line of building
canopy above
KS1 PLAY
AREA
KS2 PLAY AREA / MUGA
1no. external tap
DELIVERIES
DROP OFF ZONE
DELIVERIES
Cycle Store for
10 bikes
Proposed Mini Soccer Pitch
9.4 66m x 46.570m (60x40 yards with
3yard runoff)
7'x16' goal
8 lane 60m athletics sprint track
DROP OFF ZONE
STAFF CAR
PARK ONLY
Outline of 14x10m
Storage Shed to be
funded by others
STAFF CAR PARK ONLY
Caretakers
House
Extent of runoff
STAFF CAR
PARK ONLY
Sub Station
STAFF CAR
PARK ONLY
Gas Meter Housing
Gas Meter Housing
247
249
271
273
281
283
270
272
HANGLETON WAY
new fence to close gap in
existing - type to match existing
new opening in existing fence and hedgerow
new opening in existing fence and hedgerow
proposed pedestrian barrier to highway
existing, gate, pathway and
pedestrian barrier to be retained
existing opening in existing
fence with widened new gate
new opening with path and new gate
in existing fence and hedgerow
proposed pedestrian barrier to highway
Shelter
Existing trees to have dead
wood removed and be
crown lifted as appropriate
POYNINGS

HKS

Path
Proposed Senior Football Pitch
markings dimensions as per existing
pitch
90m x 45.5m
no run off
Proposed Mini soccer U9 and U10 (7v7)
45.5 x 36.5m yards 7'x16' goal
no run off
6 wicket cricket with restricted junior
(37m max) outfield
Proposed Mini soccer U9 and U10 (7v7)
45.5 x 36.5m yards 7'x16' goal
no run off
10 x 10m training grid
MUGA
3x netball / 3x basketball / 3x tennis
1 x 5 aside football 36.5 x 27.4m
overlaid with no run off
3 bay cricket practice enclosure - funded
by others
8 lane 100m athletics sprint track
new gateway - final position to be
confirmed to allow level access. May
require offsite works to connect to
external footpath by others
Cycle
Store
for 10
bikes
1no. external tap
new gateway
ACD
PLAY
AREA
1no. external tap
location for a potential
future shelter, to be
provided by others
External
1no. external tap
1no. external tap
line of building
canopy above
KS1 PLAY
AREA
EXISTING HABITAT
AREA RETAINED
RECEPTION
PLAY AREA
Buggy Store
Existing trees to have dead
wood removed and be
crown lifted as appropriate
Store for
20 bikes
2YR
OLD
AREA
1no. external tap
NURSERY
PLAY AREA
Relocated PE store
Bin Store with
electrical supply
and 1no. external
tap
Cycle
Store
for 20
bikes
Bin Store with
1no. external
tap
line of building
canopy above
KS1 PLAY
AREA
KS2 PLAY AREA / MUGA
DELIVERIES
DROP OFF ZONE
DELIVERIES
1no. external tap
Cycle Store for
10 bikes
Proposed Mini Soccer Pitch
9 x 68m x 46.57m (60x40 yards with
3yard runoff)
7'x16' goal
8 lane 60m athletics sprint track
DROP OFF ZONE
STAFF CAR
PARK ONLY
Outline of 14x10m
Storage Shed to be
funded by others
STAFF CAR PARK ONLY
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House
Extent of runoff
STAFF CAR
PARK ONLY
Gas Meter Housing
Sub Station
STAFF CAR
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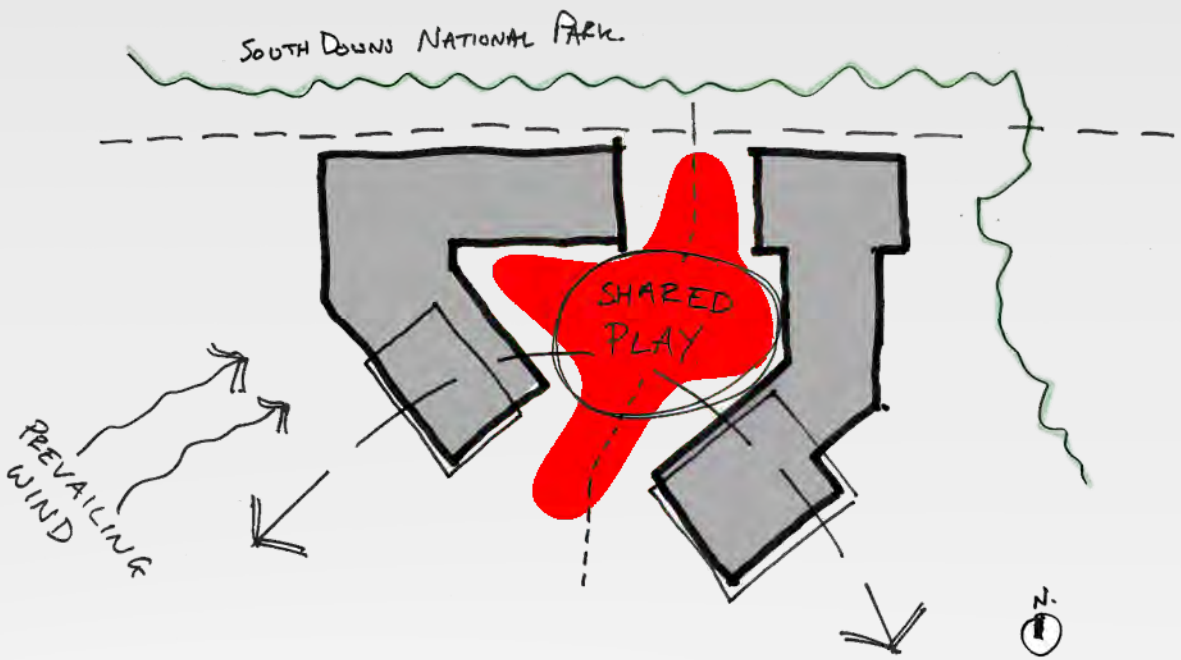
270
HANGLETON WAY
new fence to close gap in
existing - type to match existing
new opening in existing fence and hedgerow
new opening in existing fence and hedgerow
proposed pedestrian barrier to highway
existing, gate, pathway and
pedestrian barrier to be retained
existing opening in existing
fence with widened new gate
new opening with path and new gate
in existing fence and hedgerow
proposed pedestrian barrier to highway
Existing trees to have dead
wood removed and be
crown lifted as appropriate
POYNINGS
Shelter

HKS

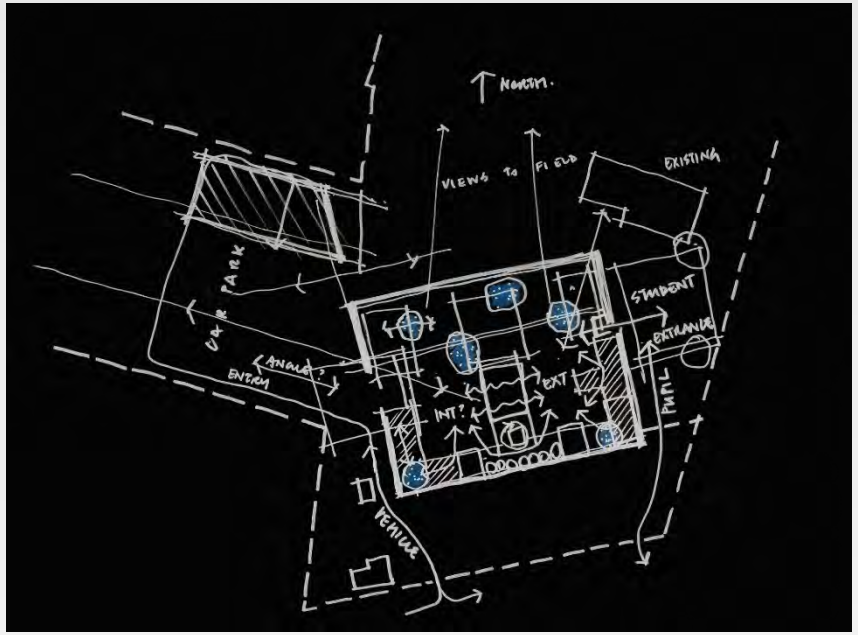


HKS

MALET LAMBERT

THE TIN MAN

HKS


NORTH.
VIEWS TO FIELD
EXISTING
CAR PARK
STUDENT
ENTRANCE
ANIMAL
ENTRY
EXIT
INT?
PATH
TENNIS

MALET LAMBERT

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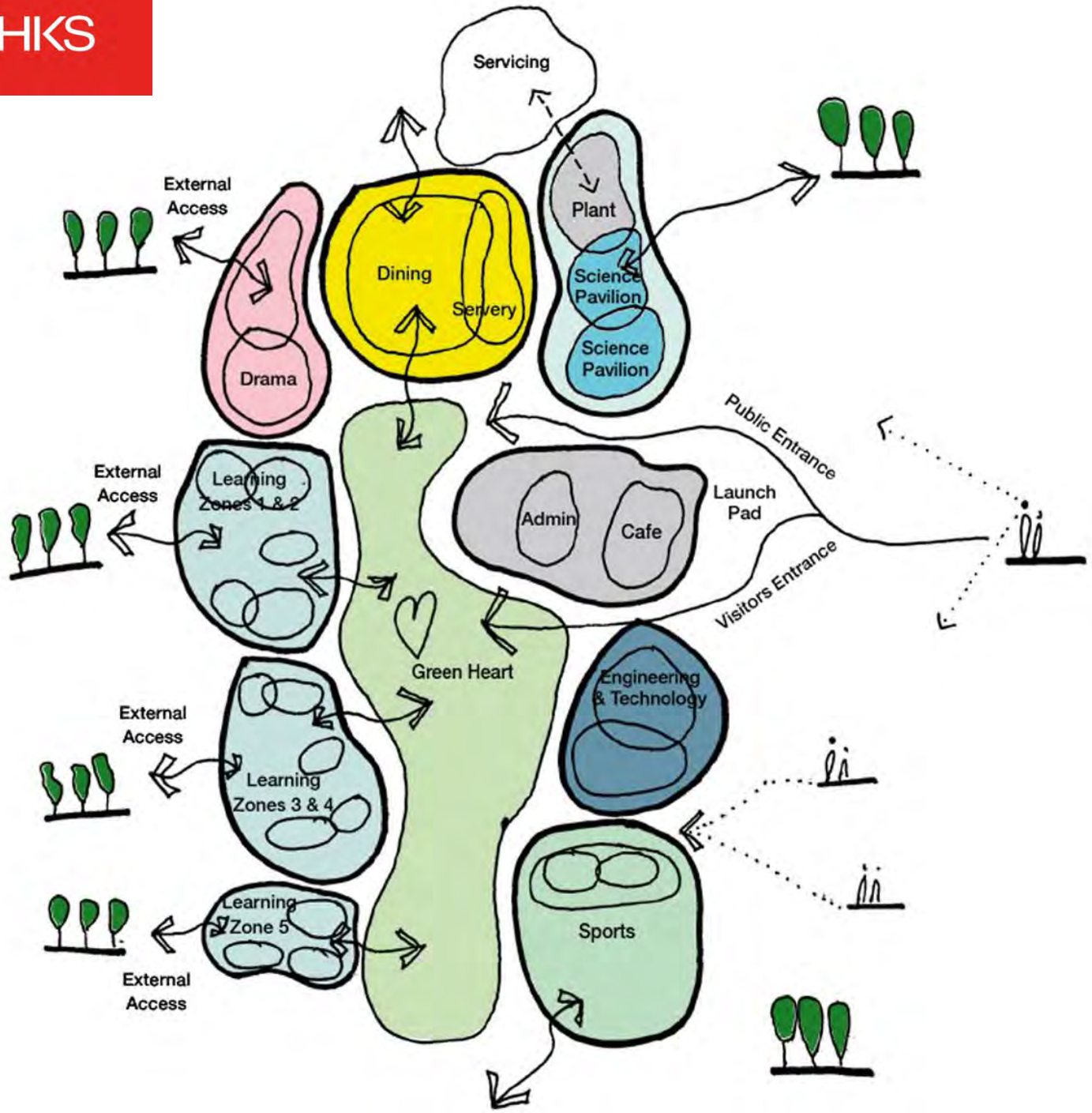
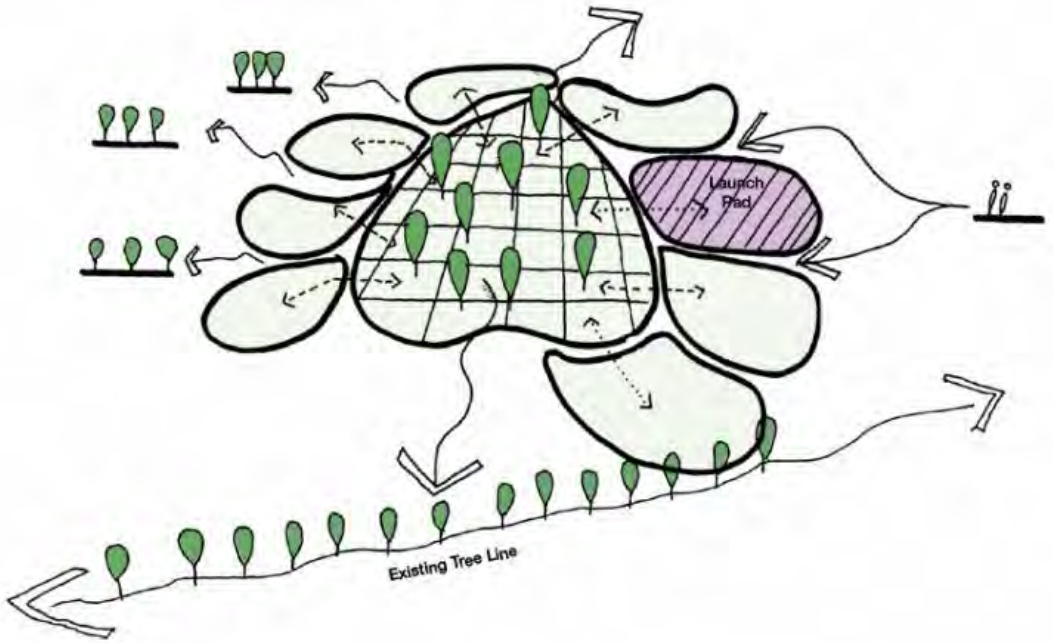
NORTHFLEET
A GREEN HEART

HKS


Servicing
External Access
Plant
Dining
Servery
Science Pavilion
Science Pavilion
Drama
Public Entrance
External Access
Learning Zones 1 & 2
Admin
Cafe
Launch Pad
Visitors Entrance
Green Heart
Engineering & Technology
External Access
Learning Zones 3 & 4
Learning Zone 5
Sports
External Access


Launch Pad
Existing Tree Line

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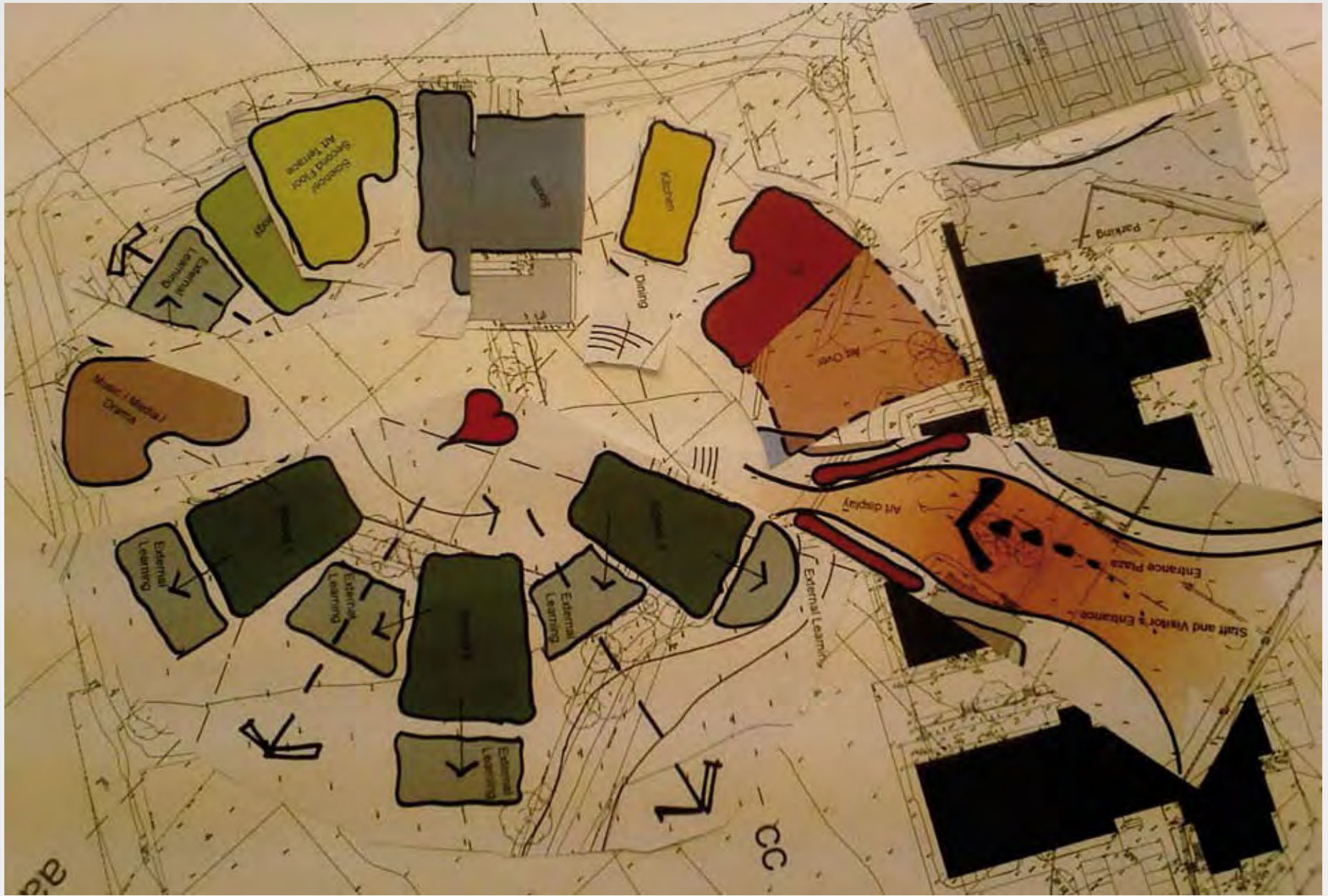
ST. JOHNS SCHOOL

STAKE THROUGH THE HEART



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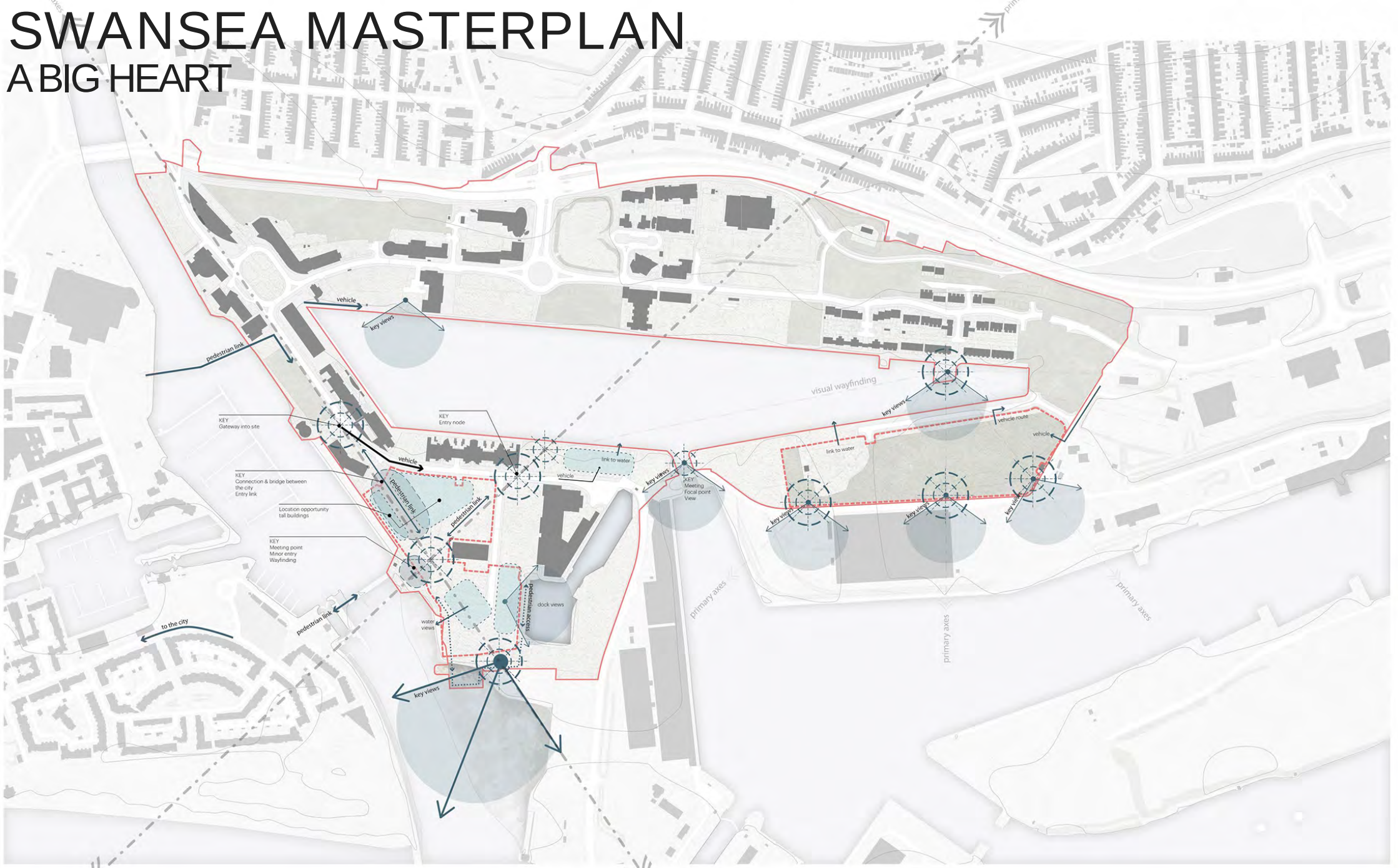
HKS

HKS

HKS

SWANSEA MASTERPLAN

A BIG HEART



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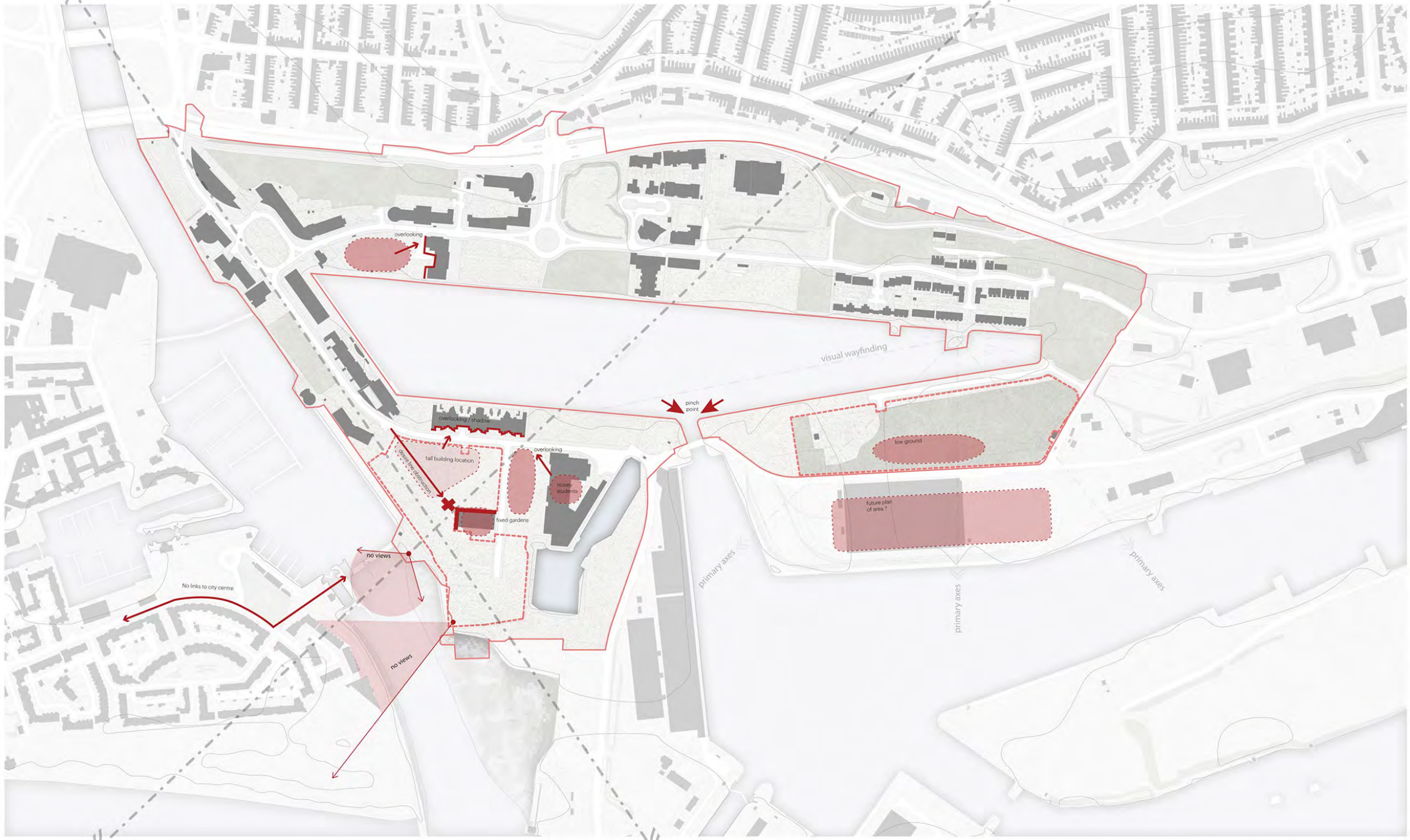
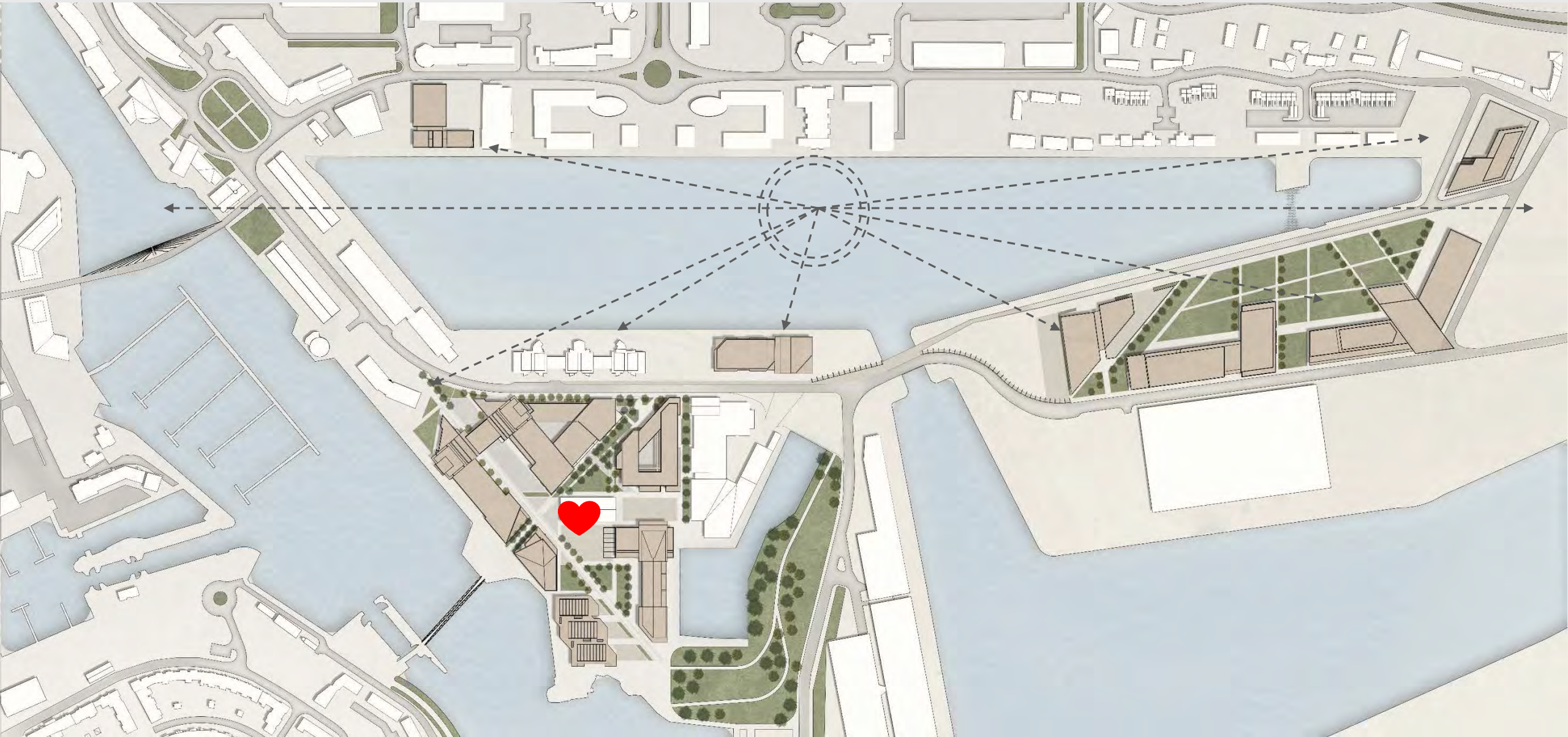
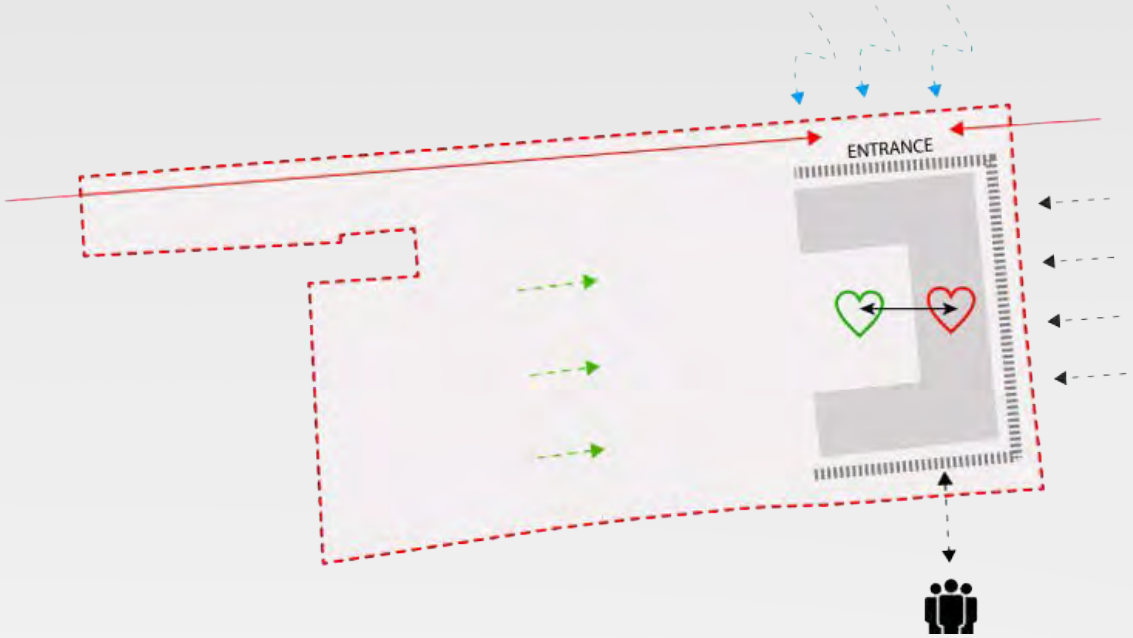

overlooking
visual wayfinding
pinch point
overlooking / shadow
tall building location
desire line connection
overlooking
noise- students
fixed gardens
low ground
future plan of area ?
no views
No links to city centre
no views
primary axes
primary axes
primary axes

HKS



HKS

ADA LOVELACE HIGH SCHOOL
HEART ATTACK



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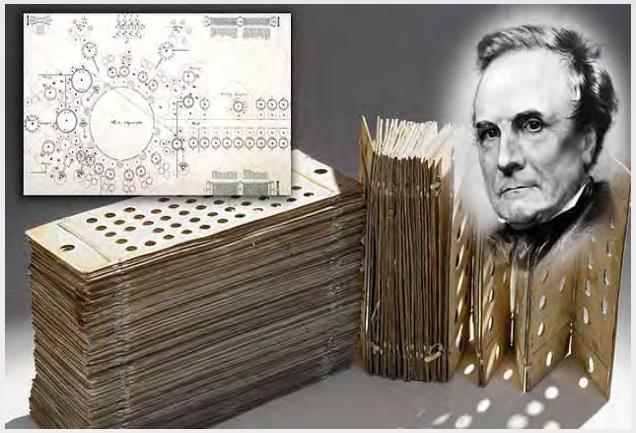
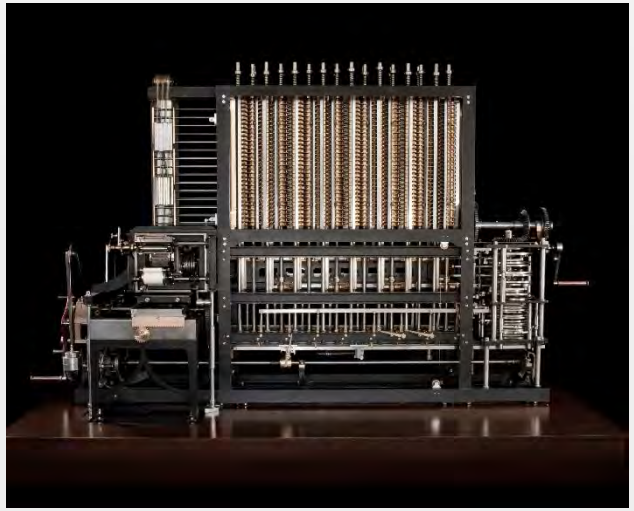
Jacquard Loom

The Jacquard Loom is a **mechanical loom** that has holes punched in pasteboard, each row of which corresponds to one row of the design. Multiple rows of holes are punched on each card and the many cards that compose the design of the textile are strung together in order.

Charles Babbage

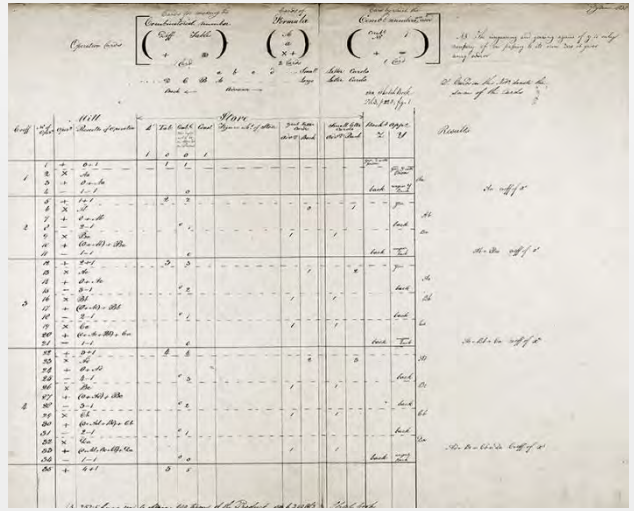


Charles Babbage took inspiration from the Jacquard loom and used perforated cards in his Analytical Engine.
The **Analytical Engine** which was to combine the array of adding gears of his earlier Difference Engine with an elaborate punch-card operating system.

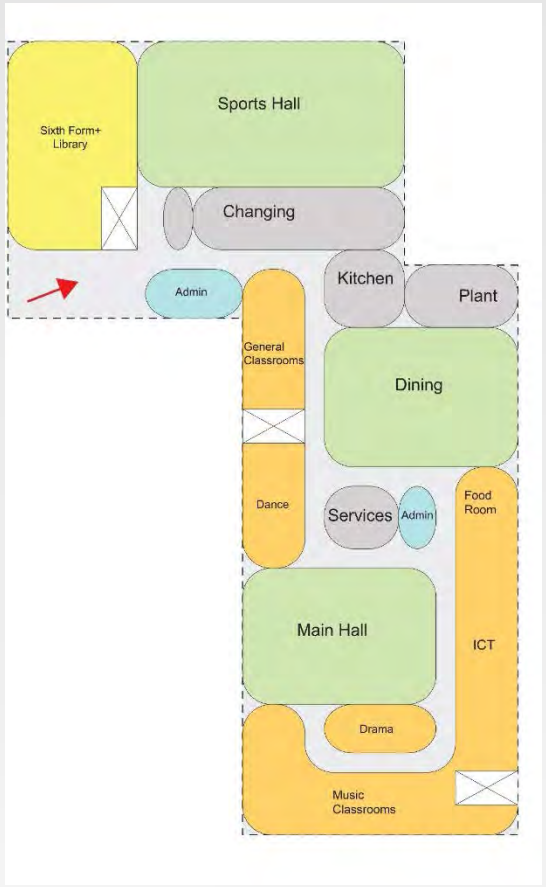


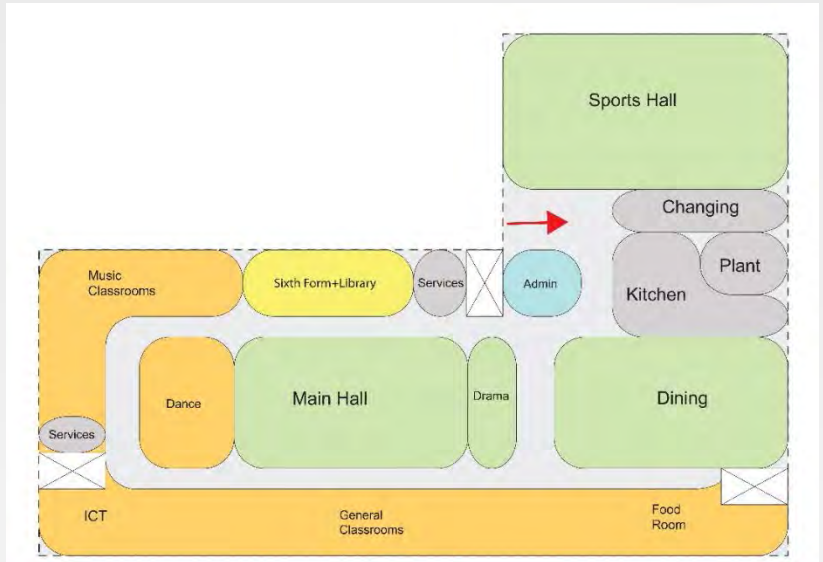
Ada Lovelace

Ada Lovelace speculated that the Engine 'might act upon other things besides number... The idea of a **machine that could manipulate symbols** in accordance with rules and that number could represent entities other than quantity mark the fundamental transition from calculation to computation.



HKS


Sixth Form+ Library
Sports Hall
Changing
Admin
Kitchen
Plant
General Classrooms
Dining
Dance
Services
Admin
Food Room
Main Hall
ICT
Drama
Music Classrooms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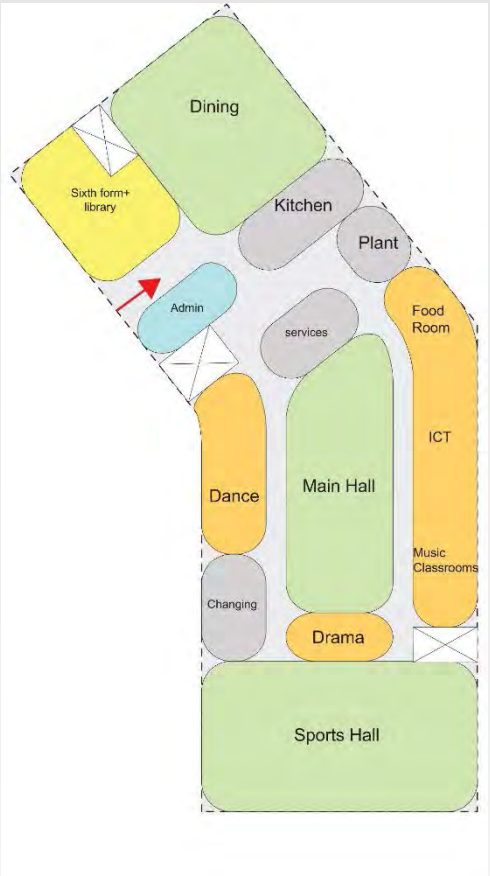

Dining
Sixth form+ library
Kitchen
Plant
Admin
services
Food Room
ICT
Dance
Main Hall
Music Classrooms
Changing
Drama
Sports Hall

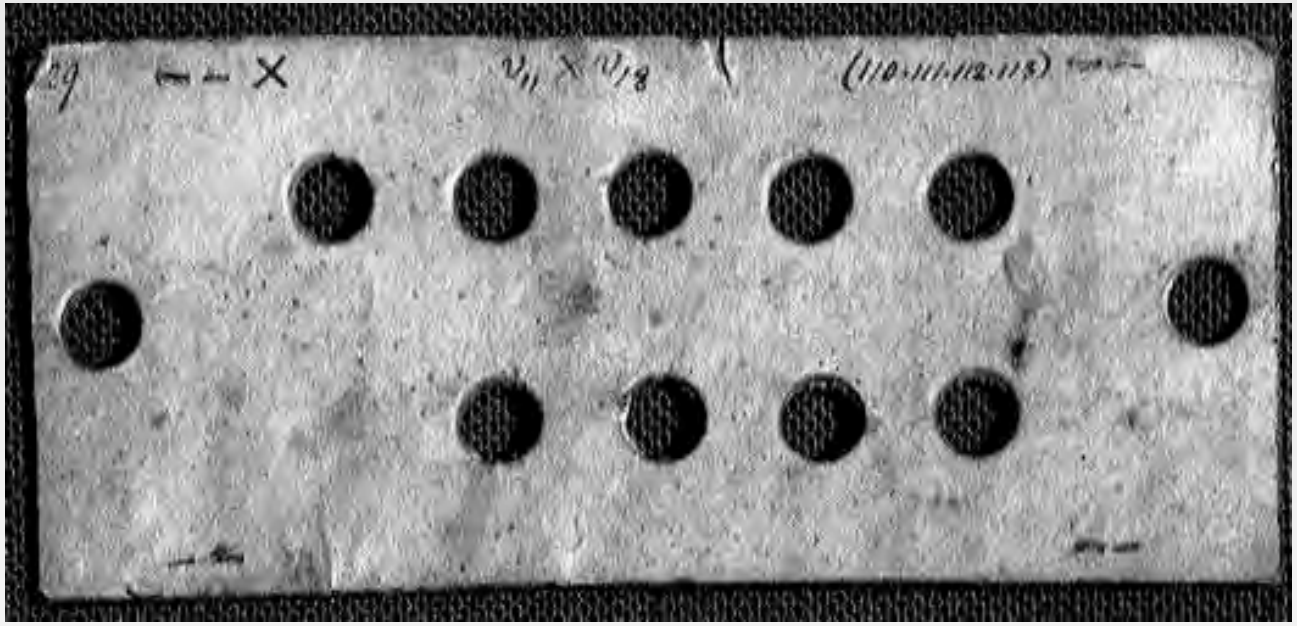
CAR PARK
DROP OFF
ENTRANCE PLAZA
SERVICE YARD
3 STOREY BUILDING
HARD PLAY
SOFT PLAY
4 MUGA

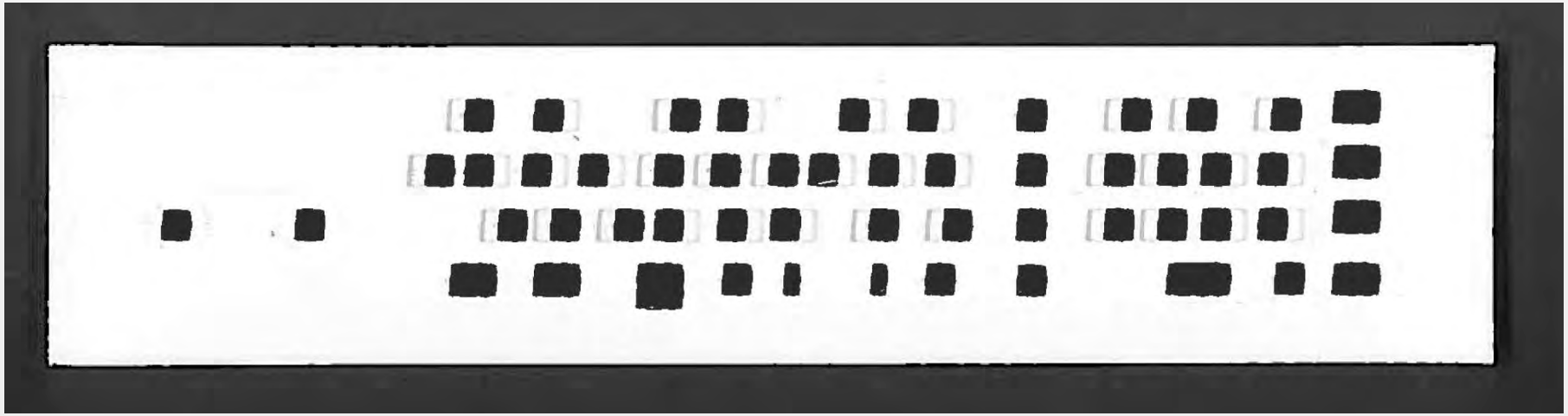
DROP OFF
ENTRANCE PLAZA
SERVICE YARD
CAR PARK
CAR PARK
3 STOREY BUILDING
HARD PLAY
SOFT PLAY
4 MUGA

CAR PARK
DROP OFF
ENTRANCE PLAZA
SERVICE YARD
CAR PARK
4 STOREY BUILDING
HARD PLAY
SOFT PLAY
4 MUGA

HKS

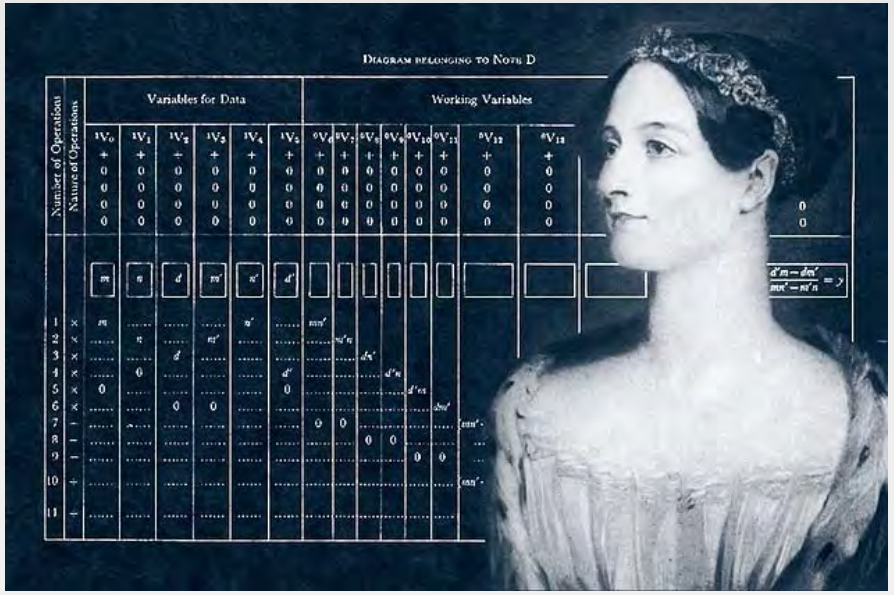
Proposed Strategy – Design algorithm output



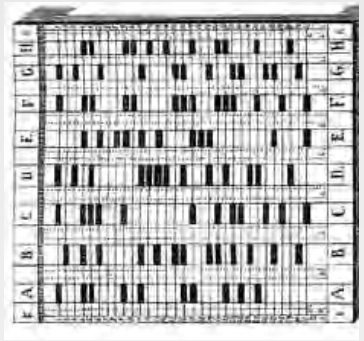


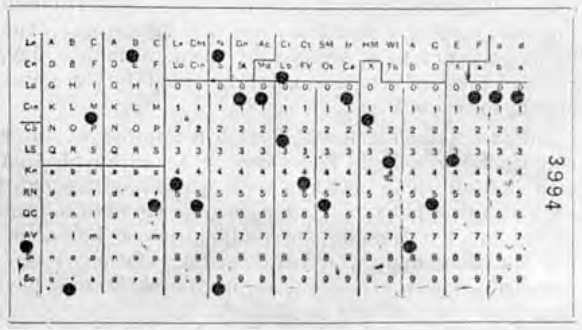
HKS

The Ada Lovelace Story

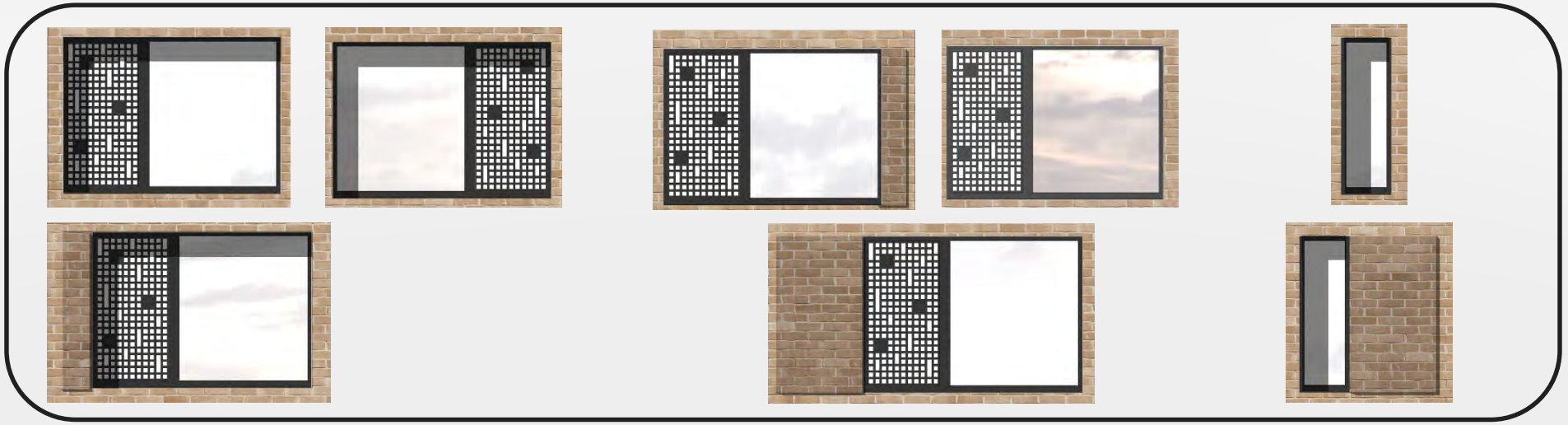


ALGORYTHM





LANGUAGE



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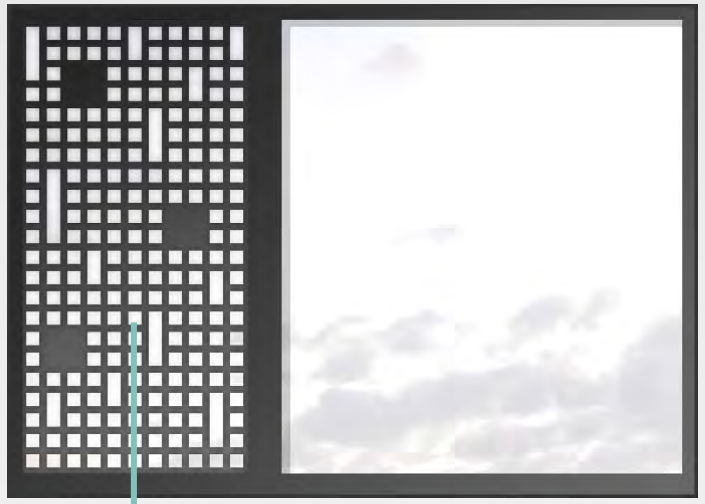


WINDOW TYPE

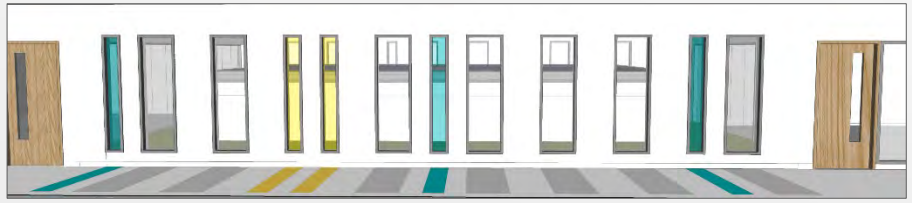
Students to design the window pattern for the school

HKS

ADA LOVELACE

1D BAR CODE

MODERN INTERPRETATION OF A PUNCHED CARD



THE PROCUREMENT PROCESS

A

Introduction

Present and discuss
Team introductions

Review and confirmation
Key adjacencies
Early design thoughts
Planning issues

Material
Initial ITT brief analysis
Site analysis diagrams
Initial options/strategies
Precedents

Milestones
Confirm understanding of all elements of scheme aspirations
Comment on initial options
Arrange specialist meetings; planning, EA, Heritage, transport

Planning Meeting

1

Brief & Strategy

Present and discuss
Process summary:
What to expect

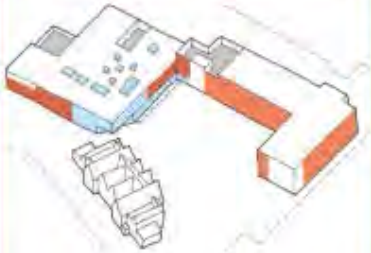
Review of HFS aspirations
Organisation structure and key adjacencies
Design concept options review
Overall area analysis
Masterplan: Strategic approach to site

Material
Brief analysis
Adjacency diagrams
Developed options/strategies

Milestones
Confirm understanding of all elements of education vision
Agree organisational diagram
Refine developed options
Initial statutory consultations / updates

2

Concept & Organisation



Present and discuss
Feedback from session 1

Development of preferred option – 2/3 Storey
Discussion on elevations
Phasing & logistics
Affordability check

Material
Plans / section drawings
Internal layouts
Organisational diagrams
Strategy diagrams/details
Engineering concept diagrams

Milestones
Review and comment on technical strategies
Agree Adjacencies

Planning Meeting

3

Design Development

Present and discuss
Feedback from session 2
Feedback from Planning

Schedule of Accommodation
Development of preferred option
Elevations / Material Precedences
Site masterplan development
Initial review of FFE
Affordability check

Material
Schedule of Accommodation
Developed concept layout
Learner's Journey
Initial site masterplan
Landscape proposals

Milestones
Sign-off Schedule of Accommodation
Agree preferred option
Agree Landscape Strategy

HKS

4

Technical Proposals

Present and discuss
Feedback from session 3

Engineering responses
Structures
Drainage
Mechanical & Electrical
Acoustics
Sustainability/BREEAM review
Phasing & logistics
FFE / ICT Design Review
Affordability check

Material
Plan / Section drawings
Detailed internal layouts
Strategy diagrams/details
Engineering concept diagrams

Milestones
Review landscape design
Review and comment on technical strategies
Agree Technical Approach
Agree Phasing and Logistics Plan

Planning Meeting TBC

5

Buildings & Layouts

Present and discuss
Feedback from session 4

Feedback from Planning
Feedback from M&E, FF&E, and ICT presentations

Interior Design Concepts
FFE Design Review
Landscape Scheme
Final Internal layouts, and organisation
Review external materials and elevation options
Affordability check

Material
Developed landscape design
3D impressions – the Learner's Journey

Milestones
Site masterplan sign off
Layout sign off
Agree preferred elevation concept and materials

6

Finalise Design

Present and discuss
Feedback from session 5

Review of key requirements of brief/vision
Detailed layout review
External detailed Elevations
Circulation and Access
Passive Supervision
Zoning strategy
Security strategy
Fire strategy
Toilets
Interior and FF&E strategy development
M&E Structural and civil engineering proposals
ICT infrastructure proposals

Material
Plan/section/elevation
Precedent buildings/materials

Milestones
Feasibility Submission
Final drawings

b

Final Presentation

Present and discuss
Review of key requirements of brief/vision

Detailed Layout review
Landscape review
Technical; strategies
ICT and FFE
Construction & Phasing
Affordability

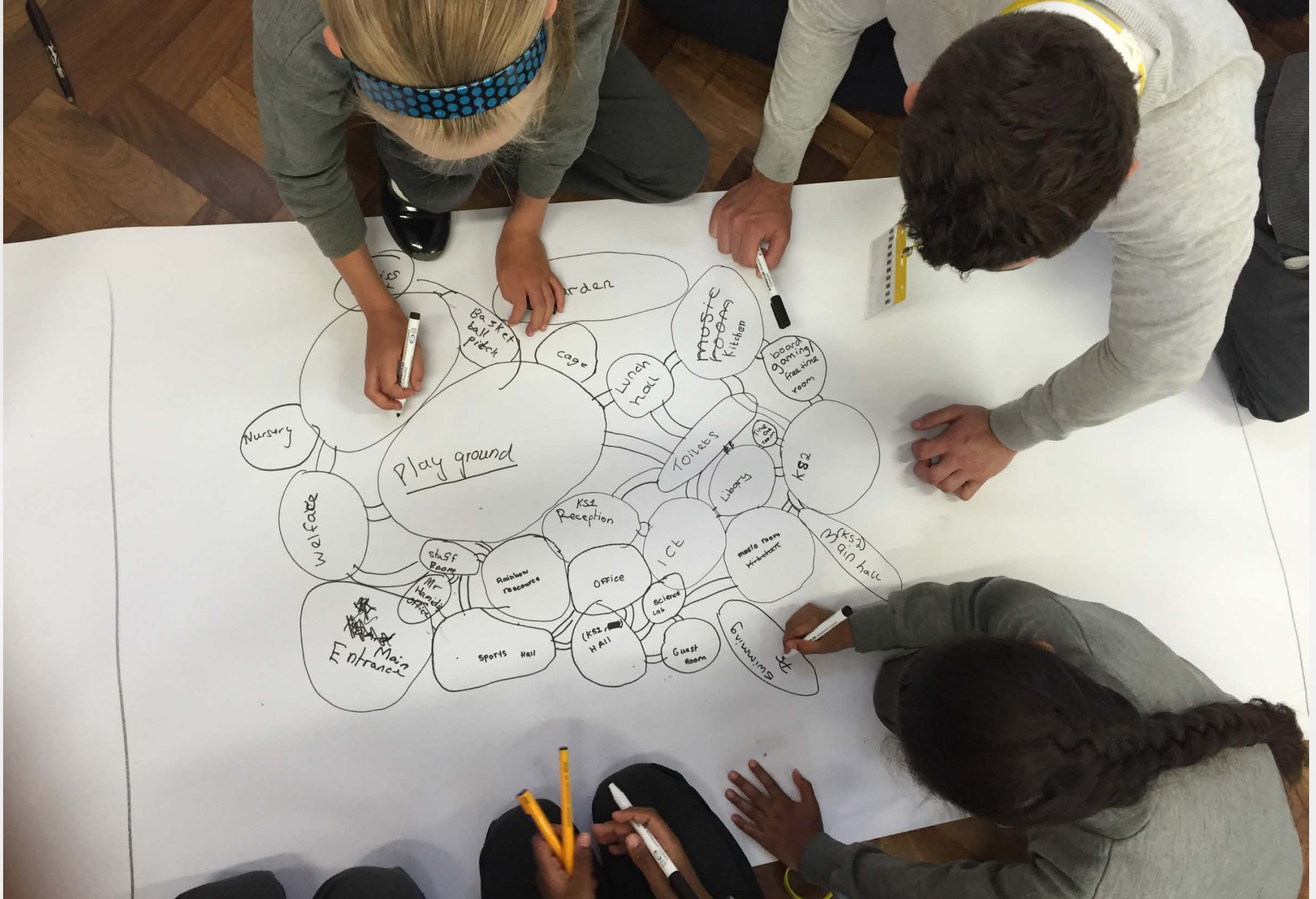
Confirm presentation and future programme requirements
Prepare for planning

Material
Plan/section/elevation drawings
Buildings / materials
3D impressions

Milestones
Feasibility Submission
Final drawings
Affordability Confirmation

STAKEHOLDER ENGAGEMENT
THE PROCESS

HKS


Nursery
Play ground
Basket ball pitch
cage
Lunch hall
Music room
Kitchen
board gaming free time room
Toilets
KS2
Library
KS1 Reception
ICT
Welfare
Staff Room
Rainbow resource
Office
Mr Handy office
Science Lab
Main Entrance
Sports Hall
Guest Room
Swimming
KS2 Main hall

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THANK YOU FOR LISTENING

apadro@hksinc.com