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RICHMOND UPON THAMES

# The Russell & Strathmore Schools

## **Design & Access Statement**

Document Ref: 5127940 - ATK4600 - PL-3

March 2015



**Plan Design Enable**

# The Russell & Strathmore Schools

London Borough Richmond Upon Thames

Design & Access Statement

## Notice

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**JOB NUMBER: 5127940**

**DOCUMENT REF: Design & Access Statement**

| <b>Revision</b> | <b>Purpose description</b> | <b>Originated</b> | <b>Checked</b> | <b>Reviewed</b> | <b>Authorised</b> | <b>Date</b> |
|-----------------|----------------------------|-------------------|----------------|-----------------|-------------------|-------------|
| PL-1            | Issued for Planning        | DV                | JH             | JH              | RC                | Dec 2014    |
| PL-2            | Re-issued for Planning     | JH                | JH             | JH              | RC                | March 2015  |
| PL-3            | Re-issued for Planning     | JH                | JH             | JH              | RC                | March 2015  |

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# 01. The Purpose of this Statement

This Statement accompanies the Full Planning Application for redeveloping the existing Russell Primary School and Strathmore SEN School sites. This statement has been submitted on behalf of London Borough of Richmond Upon Thames, by Atkins acting as Agents, to the London Borough of Richmond Upon Thames Planning Department.

This Planning, Design and Access Statement should be read alongside the full set of submission documents and drawings associated with the application, as listed in section 8 of this statement.

This statement seeks to draw together the design proposals and other technical reports produced in support of this scheme and place them within the appropriate planning and urban design context. This statement can therefore be seen as an 'entry point' into the submission to help those interested in the proposed development to gain an appreciation of the proposal and related issues.

For some readers, the overview contained in this Planning Design and Access Statement will suffice. For those seeking more information and those interested in more technical matters, details of the supporting documentation are contained within the final section of this Statement.

The submission can be viewed at:

**London Borough of Richmond Upon Thames  
Civic Centre,  
44 York Street,  
Twickenham,  
TW1 3BZ**

Or at:

<http://richmond.gov.uk/home/services/planning.htm>

This Planning, Design and Access Statement produced in support of the planning application is designed to respond to the requirements of circular 01/2006 from the DCLG in accordance with the statutory instrument 2006 No. 1063. The required elements have been included in order to fully address the design in planning and access terms.

This statement generally follows the CABE guidance document "Design and Access Statements: How to Write, Read and Use Them" and attempts to show how all the elements of design (Consultation, Use, Amount, Layout, Scale, Landscaping, Appearance and Access) have influenced the final proposals.



# Background to the Project

The Russell & Strathmore Schools  
Design & Access Statement

02

# 2.1 Background to the Project

02

## Greater London

Greater London is an administrative area, ceremonial county and the London region of England. It was created on 1 April 1965, comprising the City of London and 32 London Boroughs, of which 12 are Inner London and 20 Outer London Boroughs. The ceremonial county created at the same time, and used by the Lord Lieutenant of Greater London, does not include the City of London. The Greater London Authority, consisting of the Mayor of London and the London Assembly, headquartered in City Hall, has been responsible for strategic local government since 2000. Greater London occupies the same area as the London European Parliament constituency. It is at the first level of NUTS for statistical purposes, covers 1,572 km<sup>2</sup> (607 sq mi) and had a population of 8,174,000 at the 2011 census. It has by far the highest GVA per capita in the United Kingdom. The term Greater London was in use before 1965 to refer to various areas larger than the County of London such as the Metropolitan Police District.

## Richmond

Richmond is a suburban town in south west London, 8.2 miles (13.2 km) west-southwest of Charing Cross. The town is on a meander of the River Thames, with a large number of parks and open spaces, including Richmond Park, and many protected conservation areas, which include much of Richmond Hill. A specific Act of Parliament protects the scenic view of the River Thames from Richmond.

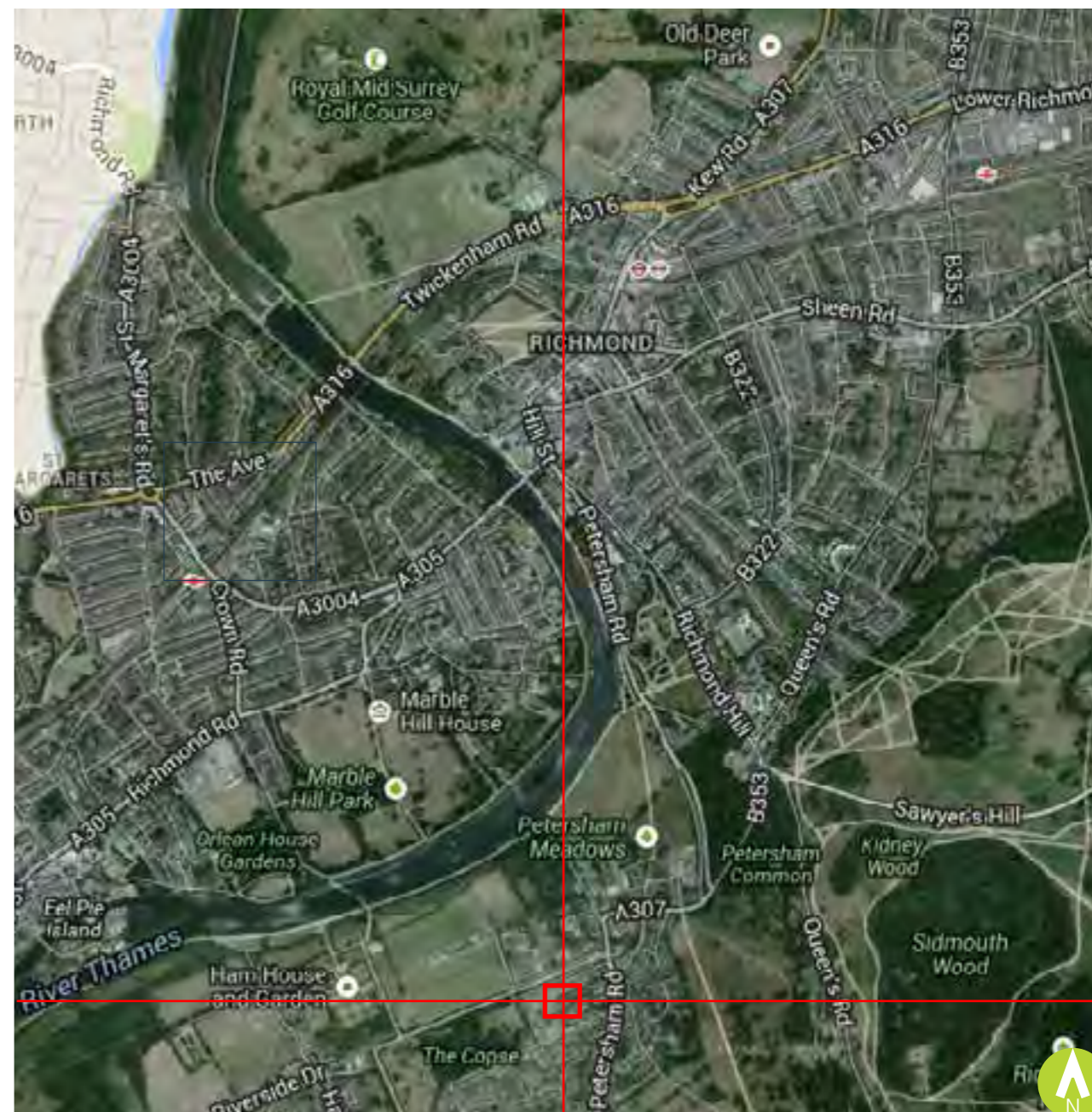
Richmond was founded following Henry VII's building of Richmond Palace in the 16th century, from which the town derives its name. During this era the town and palace were particularly associated with Elizabeth I, who spent her last days here. During the 18th century Richmond Bridge was completed and many Georgian terraces were built, particularly around Richmond Green and on Richmond Hill. These remain well preserved and many have listed building architectural or heritage status. The opening of the railway station in 1846 was a significant event in the absorption of the town into a rapidly expanding London. Richmond was formerly part of the ancient parish of Kingston upon Thames in the county of Surrey. The town became a municipal Borough in 1890, which was enlarged in 1892 and 1933. The municipal Borough was abolished in 1965 when, as a result of boundary changes, Richmond was transferred to Greater London. It is now part of the London Borough of Richmond upon Thames.



01 Map of the British Isles



02 Map of Greater London



03 Location map of The Russell & Strathmore Schools on the London Borough of Richmond Upon Thames context



## 2.2 The Existing Site

### The Site

The Russell and Strathmore Schools are located within a predominately residential area. Surrounding dwellings vary in size and are generally two storey, masonry construction, detached and semi-detached units, appearing to be single family homes. Most houses appear to have a drive and a back garden.

### The Russell School





The main front entrance is from Petersham Road with a secondary entrance from Meadlands Drive at the rear from which the majority of pupils arrive. The school is similar to a mini campus with five separate buildings displaced across the site.

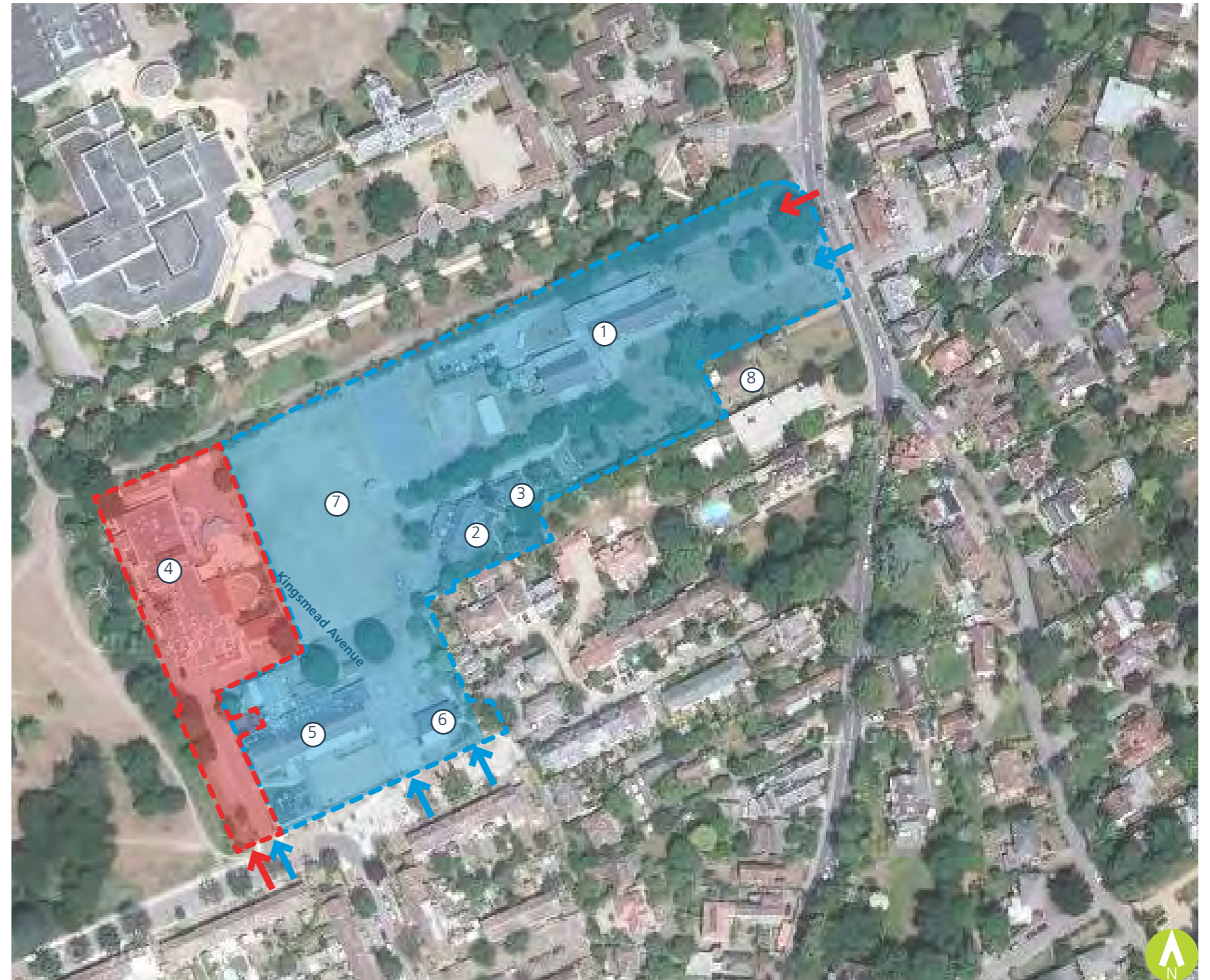
This dispersion presents a number of issues for the running of the school and also some unavoidable inefficiencies such as doubling up of services, equipment etc. Maintenance is also a financial issue and would remain so for the future. Such separation of buildings and year groups also presents issues regarding safety, communication and connectivity.

### The Strathmore School

The main front entrance for the school is from Meadlands Drive. This entrance caters for pedestrians and vehicles.

### Key

-  Russell School - Site boundary
-  Strathmore School - Site boundary
-  Main access (vehicular and pedestrian)
-  Primary pedestrian access



04 Site aerial view

# 2.3 The Existing Site

02

## Site Analysis

- - - Site boundary - Strathmore SEN
- - - Sun path
- • • Main vehicular circulation
- ➔ Main access (vehicular and pedestrian)
- ➔ Primary pedestrian access
- - - Site Boundary - Russell Primary
- ①
- ② Junior Building
- ③ Annex Building
- ④ Modular staff room
- ⑤ Strathmore School
- ⑥ Infant Building
- ⑦ Nursery Building
- ⑧ Playing field
- Caretaker's house



## 2.4 The Existing Site

### Existing Site Plan & Buildings

#### The Russell School Site Layout & Access

The existing Russell School site currently accommodates the primary school, SEN provision and nursery. The main front entrance is from Petersham Road with a secondary entrance from Meadlands Drive at the rear, from which the majority of pupils arrive.

#### Operating hours

- Primary School 8:45am to 3:15pm
- Nursery 8:30am to 11:30am & 12:30pm to 3:30pm

The larger proportion of children come to the school from the Meadlands Drive entrance, with the smaller proportion coming from local bus routes along Petersham Road. As a result the Meadlands Drive area gets quite congested with parents parking, collection, cars turning etc. Traffic management will be an important aspect of the future development of the site. Due to the buildings being situated around the site, there is a doubling up of plant rooms and equipment with items such as library books which have to be ordered for both ends of the site.

Communal activities such as dining and assembly are made difficult by the buildings not being connected.

#### The Strathmore School Site Layout & Access

The Strathmore School building is adjacent to The Russell School site and is accessed across land which is within the boundary of the school, therefore it is a 'shared' zone.

#### Operating hours

- 9:05am to 3:20pm

When both schools are co-located on a single site there is a possible opportunity to alter opening/closing times to suit the combined site

#### Future access requirements (co-located site)

- All pedestrian access to be directed to Meadlands Drive entrance
- All vehicular access to be directed to Petersham Road entrance



06 Pedestrian Access from Petersham road (A)



07 View from Petersham road - Main Vehicular entrance (B)



08 Access to the Infant Building (C)



09 Vehicular Access to the Strathmore School (D)

# 2.5 The Existing Site

02

## Site Connectivity









The Russell and The Strathmore Schools are approximately 1.4 miles from Richmond underground and Overground stations.

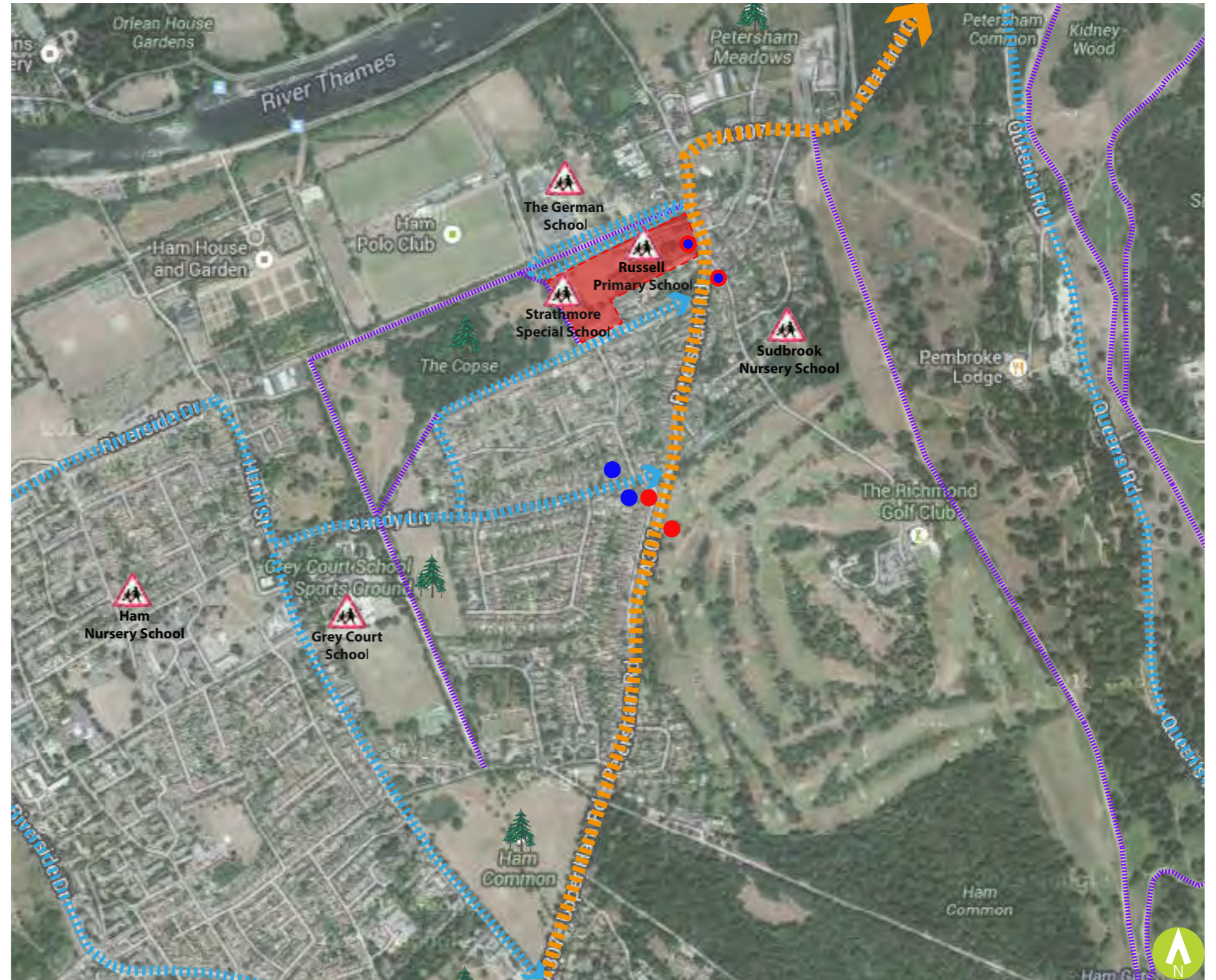
Both schools are accessible by bus with routes 65 and 371, Kingston to Richmond, stopping just next to the Russell School entrance and approximately 2 minutes walk away from the Strathmore School entrance.

There is limited staff parking only within both school grounds. Parking includes designated accessible parking bays which are adjacent to the entrance doors. There is no parent parking in either of the school grounds.

The Russell School is part of Go Green Richmond. The following activities are promoted:

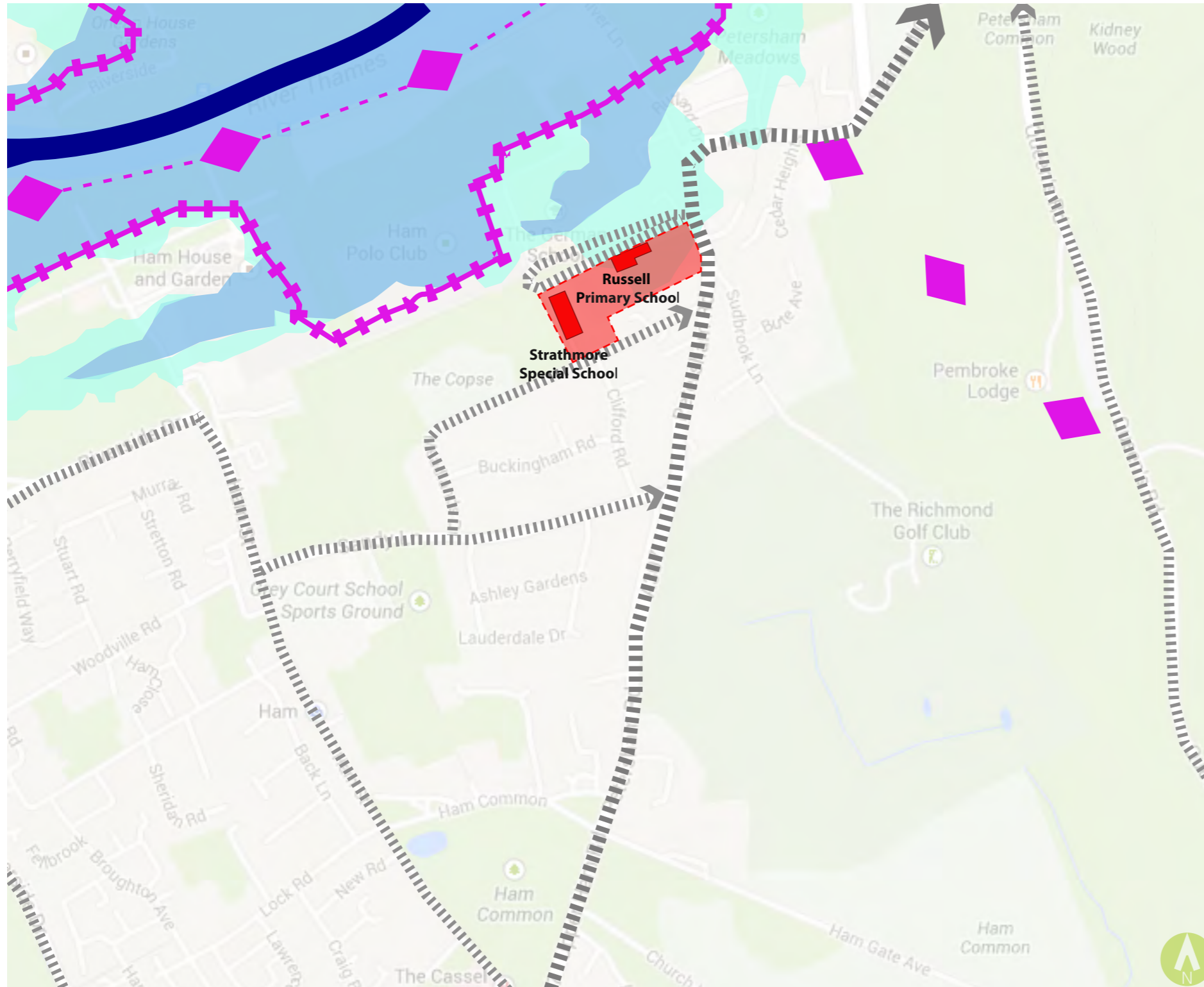
- Encourage cycling by providing secure sheltered bike and scooter racks for storage, and educate pupils about safe cycling.
- Work with your school travel advisor to devise safe routes to school.
- Hold cycling proficiency and bicycle maintenance sessions.
- Set up a walking bus to encourage children that live locally to walk to school.
- Hold walking competitions using pedometers with students trying for a 'personal best'.

|   |                         |
|---|-------------------------|
|  | Woodland & Parks        |
|  | Schools                 |
|  | Tier 2 Roads            |
|  | Tier 3 Roads            |
|  | Pedestrian route        |
|  | Bus Stop 65             |
|  | Bus Stop 371            |
|  | School Site(s) Location |



Site Connectivity

# 2.6 The Existing Site










## Flood Risk Plan

Based on information from the Environment Agency Flood Map the site is partly on the extent of extreme flood and near the danger area boundary.

Since these maps only cover flooding from rivers and the sea, it should be considered that flooding can occur at any time and in any place from sources such as rising ground levels, burst water mains, road drains, run-off from hillsides and sewer overflows.

A full Flood Risk Assessment was commissioned by LBRuT in November 2014. The Flood Risk Assessment prepared by RAB Resilience and Flood Risk, dated 21st November 2014, is included as part of this Planning Submission within a separately bound document.

-  Flooding from rivers or sea without defences
-  Extent of extreme flood
-  Danger area - Boundary
-  Main rivers
-  Tier 2 Road
-  Tier 3 Road
-  Site Location

Flood Risk Plan

# 2.7 The Existing Site

02

## Grounds Analysis

- Site boundary - Russell Primary
- Soft play
- Habitat
- Hard play
- Games courts
- Playing field
- Float

### Key to views

- (A) View of the games court
- (B) View of the Playing field
- (C) View of car parking area
- (D) View of Nature area



Russell School - Play areas

# 2.8 The Existing Site

## External Landscaping

### The Russell School

The external landscaping is pleasant and provides plenty of green space, trees and hard playing areas.

The total site area required by BB99 for a 2FE primary school is from 13,816m<sup>2</sup> to 19,494m<sup>2</sup>. The total existing site area for The Russell Primary School is 19,760m<sup>2</sup>.

## Play Area Assessment

The current play area requirements are as follows:

### Soft Play

|  |                         |
|--|-------------------------|
| Current (incl. Nursery)                | 5,039m <sup>2</sup>     |
| 2FE requirement :N=330 (incl. Nursery) | min.1,690m <sup>2</sup> |

### Habitat

|  |                       |
|--|-----------------------|
| Current (incl. Nursery)                | 796m <sup>2</sup>     |
| 2FE requirement :N=330 (incl. Nursery) | min.556m <sup>2</sup> |

### Hard Play

|  |                       |
|--|-----------------------|
| Current (incl. Nursery)                | 1,192m <sup>2</sup>   |
| 2FE requirement :N=330 (incl. Nursery) | min.934m <sup>2</sup> |

### Games Court

|  |                         |
|--|-------------------------|
| Current                                | 467m <sup>2</sup>       |
| 2FE requirement :N=330 (incl. Nursery) | min.1,260m <sup>2</sup> |

### Playing Field

|  |                         |
|--|-------------------------|
| Current                                | 6,192m <sup>2</sup>     |
| 2FE requirement :N=330 (incl. Nursery) | min.6,600m <sup>2</sup> |

### Float

|  |                          |
|--|--------------------------|
| Current                                | 3,936m <sup>2</sup>      |
| 2FE requirement :N=330 (incl. Nursery) | min. 1,780m <sup>2</sup> |



13 View of the games court (A)



14 View of the the Playing field (B)



15 View of car parking area (C)



16 View of Nature area (D)

# 2.9 The Existing Buildings

02

## External Landscaping

### The Strathmore School

The external landscaping is pleasant and provides plenty of green space, trees and hard playing areas.

The total site area required by DfES Building Bulletin 85 for a Primary SEN school for 25 pupils is from 1045m<sup>2</sup>. The total existing site area for The Strathmore School is 4998m<sup>2</sup>.

## Play Area Assessment

The current play area requirements are as follows:

### Hard Surface

Current  
SEN (Primary): N=25 requirement



973m<sup>2</sup>  
600m<sup>2</sup>

### Soft Area

Current  
SEN (Primary): N=25 requirement



758m<sup>2</sup>  
350m<sup>2</sup>



17 View of car parking area (A)



18 Soft Play Area (B)



19 Hard Play Area (C)



20 View of the games court (D)



# 2.10 The Existing Building



### Grounds Analysis

- Site boundary
- Soft play
- Habitat
- Hard play
- Games courts
- Playing field
- Float

### Key to views

- (A) View of car parking area
- (B) Soft Play Area
- (C) Hard Play Area
- (D) View of the games court

Strathmore School - Play areas

# 2.11 The Existing Site - The Russell School

02

## The Russell School - Existing buildings

### Junior Building

The single storey main building was constructed in 1957 and now provides space resources, stores and WC facilities and now provides space for the main entrance, administration and management accommodation, 4 no. classrooms, art room, assembly hall, stores and WC facilities.

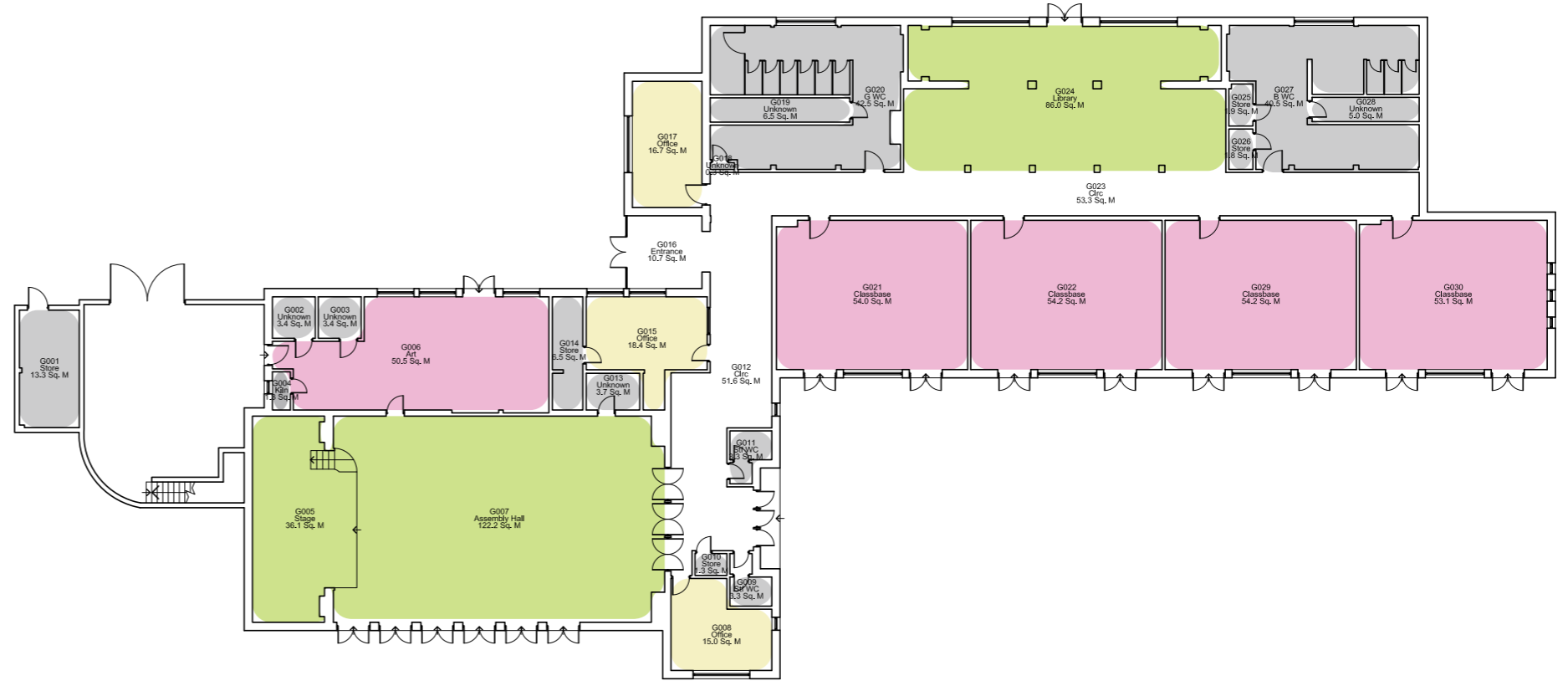
Roofs are pitched concrete tiled and flat asphalt and felt. Elevations are brick, windows are aluminium, UPVC, timber and steel, doors are UPVC, timber and steel. Floors are of a solid construction.

### Junior Building - Ground Floor Plan

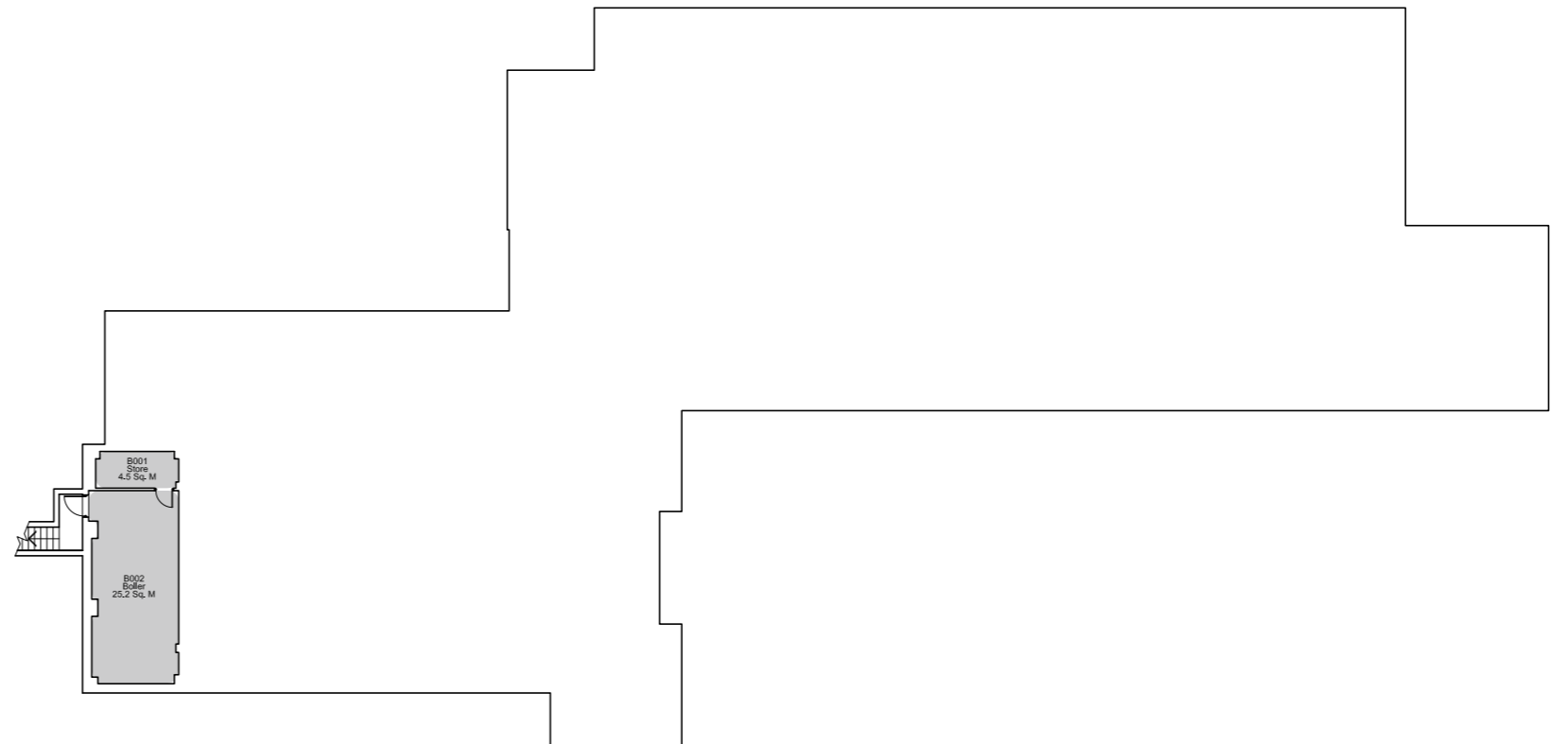
**GEA 988.3 sq.m**  
**GIA 858.8 sq.m**

### Junior Building - Basement

**GEA 41.1 sq.m**  
**GIA 30.0 sq.m**



22 Existing Junior Building Ground Floor Plan



23 Existing Junior Building Basement

# 2.12 The Existing Site - The Russell School



Junior Building



## Main School Building Areas

| Room             | Name          | Area (m2)    |
|------------------|---------------|--------------|
| G001             | STORE         | 13.3         |
| G002             | UNKNOWN       | 3.4          |
| G003             | UNKNOWN       | 3.4          |
| G004             | KILN          | 1.3          |
| G005             | STAGE         | 36.1         |
| G006             | ART           | 50.5         |
| G007             | ASSEMBLY HALL | 122.2        |
| G008             | OFFICE        | 15.0         |
| G009             | STAFF WC      | 3.3          |
| G010             | STORE         | 1.3          |
| G011             | STAFF WC      | 3.3          |
| G012             | CIRCULATION   | 51.6         |
| G013             | UNKNOWN       | 3.7          |
| G014             | STORE         | 6.5          |
| G015             | OFFICE        | 18.4         |
| G016             | ENTRANCE      | 10.7         |
| G017             | OFFICE        | 16.7         |
| G018             | UNKNOWN.      | 0.3          |
| G019             | UNKNOWN       | 6.5          |
| G020             | GIRLS WCs     | 42.5         |
| G021             | CLASSBASE     | 54.0         |
| G022             | CLASSBASE     | 54.2         |
| G023             | CIRCULATION   | 53.3         |
| G024             | LIBRARY       | 86.0         |
| G025             | STORE         | 9.0          |
| G026             | STORE         | 8.0          |
| G027             | BOYS WCs      | 40.5         |
| G028             | UNKNOWN       | 5.0          |
| G029             | CLASSBASE     | 54.2         |
| G030             | CLASSBASE     | 53.1         |
| <b>Total NIA</b> |               | <b>827.3</b> |

## Basement Areas

| Room             | Name   | Net Internal Area (m2) |
|------------------|--------|------------------------|
| B001             | STORE  | 4.5                    |
| B002             | BOILER | 25.2                   |
| <b>Total NIA</b> |        | <b>29.7</b>            |

# 2.13 The Existing Site - The Russell School

02

## The Russell School - Existing Buildings

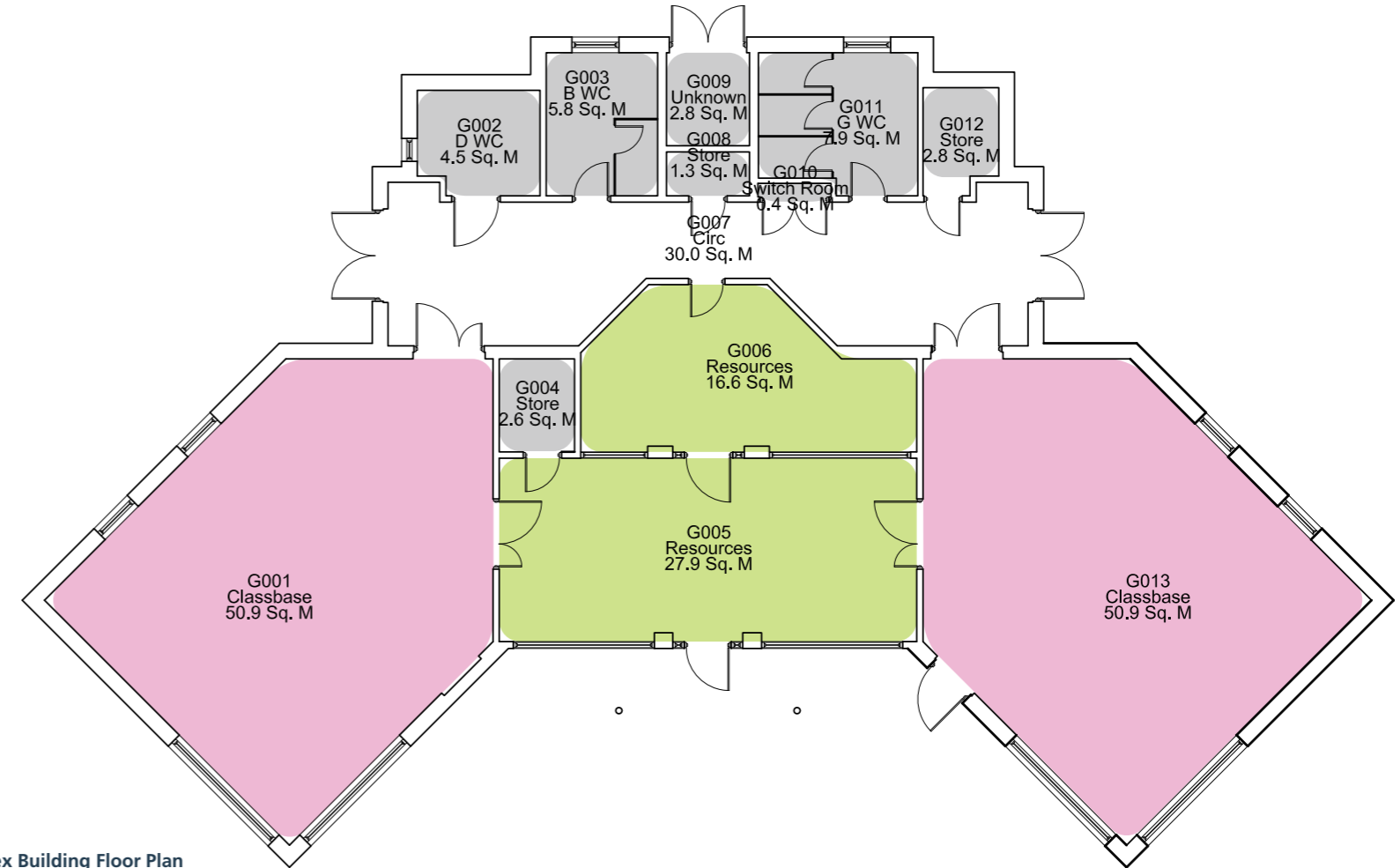
### Annex Building

The single storey annex building was constructed in 1996 and now provides space for 2 no. classrooms, resources, stores and WC facilities.

The building has a pitched concrete tiled roof and a felt flat roof. Windows and doors are timber and floors are of a solid construction.

### Annex Building

**GEA 233.1 sq.m**  
**GIA 212.5 sq.m**



24 Existing Annex Building Floor Plan

# 2.14 The Existing Site - The Russell School

Annex Building



### Annex Building Areas

| Room             | Name        | Net Internal Area (m2) |
|------------------|-------------|------------------------|
| G001             | CLASSBASE   | 50.9                   |
| G002             | D.WC        | 4.5                    |
| G003             | BOYS WCs    | 5.8                    |
| G004             | STORE       | 2.6                    |
| G005             | RESOURCES   | 27.9                   |
| G006             | RESOURCES   | 16.6                   |
| G007             | CIRCULATION | 30.0                   |
| G008             | STORE       | 1.3                    |
| G009             | UNKNOWN     | 2.8                    |
| G010             | SWITCH ROOM | 0.4                    |
| G011             | GIRLS WCs   | 7.9                    |
| G012             | STORE       | 2.8                    |
| G013             | CLASSBASE   | 50.9                   |
| <b>Total NIA</b> |             | <b>204.4</b>           |

# 2.15 The Existing Site - The Russell School

02

## The Russell School\_ Existing Buildings

### Infant Building

The single storey infant building was constructed in 1957 and now provides space for an assembly all, kitchen, library, 4 no. classrooms, resources and WC facilities. The building is laid out with individual classrooms and corridors providing storage/wet areas.

The brick built building has a pitched concrete tiled roof and a felt flat roof. Elevations are brick. Doors and windows are UPVC, aluminium, steel and timber. Floors are of a solid construction.

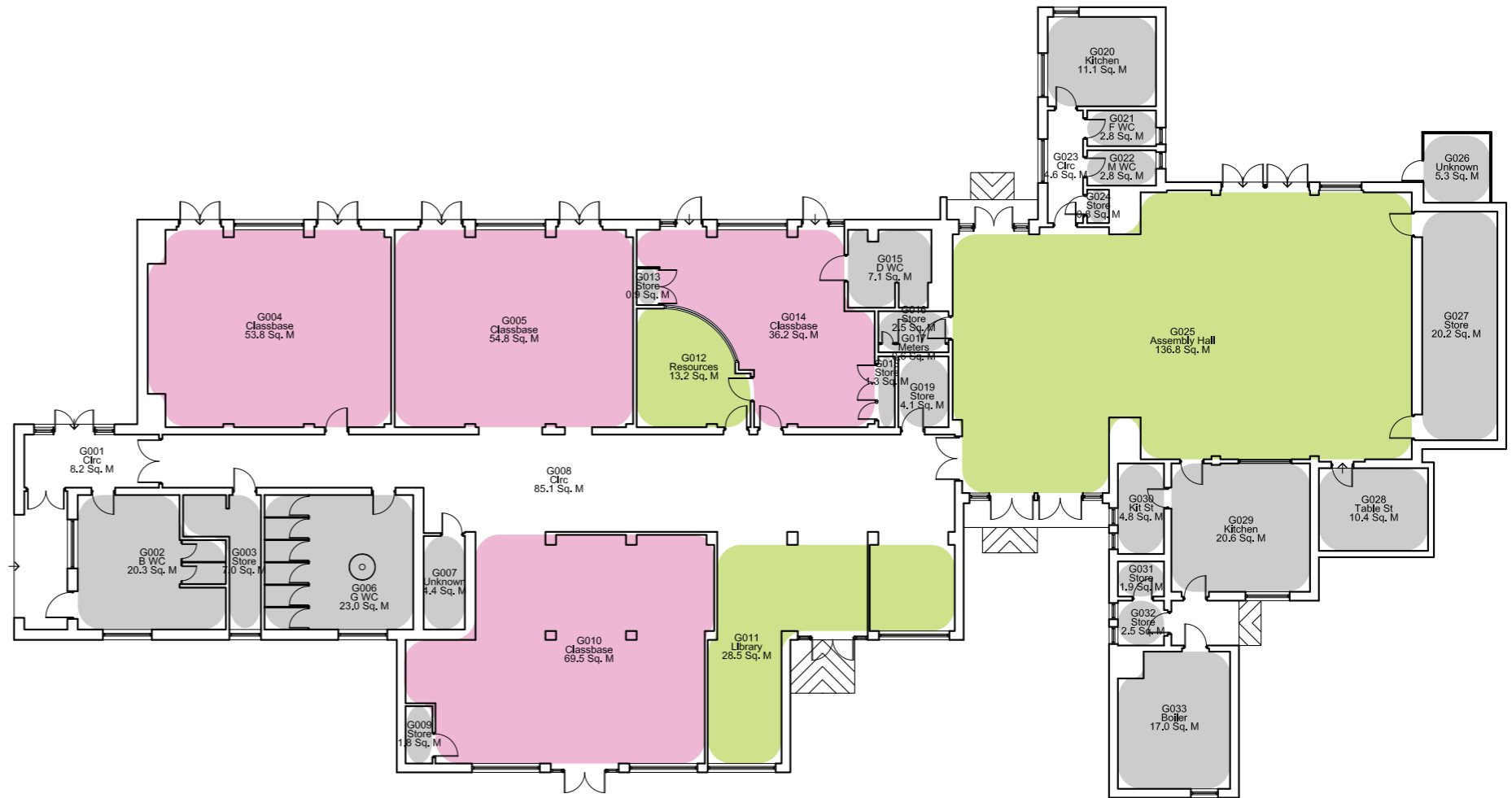
A single storey extension to the north-west of the Infant Building was constructed in 2010. The building has a corrugated PVC roof. Elevations are timber cladding, doors are timber and the floor is of a solid construction.

### Infant Building

**GEA 757.4 sq.m**  
**GIA 704.7 sq.m**

### Infant Building Extension

**GEA 20.0 sq.m**  
**GIA 17.8 sq.m**



25 Existing Infant Building Ground Floor Plan

## 2.16 The Existing Site - The Russell School



Infant Building

### Infant Building Areas

| Room             | Name          | Area (m2)    |
|------------------|---------------|--------------|
| G001             | CIRCULATION   | 8.2          |
| G002             | BOYS WCs      | 20.3         |
| G003             | STORE         | 7.0          |
| G004             | CLASSBASE     | 53.8         |
| G005             | CLASSBASE     | 54.8         |
| G006             | GIRLS WCs     | 23.0         |
| G007             | UNKNOWN       | 1.4          |
| G008             | CIRCULATION   | 85.1         |
| G009             | STORE         | 1.8          |
| G010             | CLASSBASE     | 69.5         |
| G011             | LIBRARY       | 28.5         |
| G012             | RESOURCES     | 13.2         |
| G013             | STORE         | 0.9          |
| G014             | CLASSROOM     | 36.2         |
| G015             | D.WC          | 7.1          |
| G016             | STORE         | 2.5          |
| G017             | METERS        | 0.6          |
| G018             | STORE         | 1.3          |
| G019             | STORE         | 4.1          |
| G020             | KITCHEN       | 11.1         |
| G021             | F.WC          | 2.8          |
| G022             | M.WC          | 2.8          |
| G023             | CIRCULATION   | 4.6          |
| G024             | STORE         | 0.8          |
| G025             | ASSEMBLY HALL | 136.8        |
| G026             | UNKNOWN       | 5.3          |
| G027             | STORE         | 20.2         |
| G028             | TABLE STORE   | 10.4         |
| G029             | KITCHEN       | 20.6         |
| G030             | KIT STORE     | 4.8          |
| G031             | STORE         | 1.9          |
| G032             | STORE         | 2.5          |
| G033             | BOILER        | 17.0         |
| <b>Total NIA</b> |               | <b>603.7</b> |

# 2.17 The Existing Site - The Russell School

02

## The Russell School\_ Existing buildings

### Modular Nursery

The nursery mobile was installed in 2005 and now provides space for a play room, kitchen, stores and WC facilities.

The building has a felt flat roof. External walls are timber clad, windows are UPVC and doors are UPVC and timber. Floors are suspended timber.

### Nursery Building

The single storey nursery building was constructed in 1977 and now provides space for 2no. classrooms, reception, kitchen, stores and WC facilities.

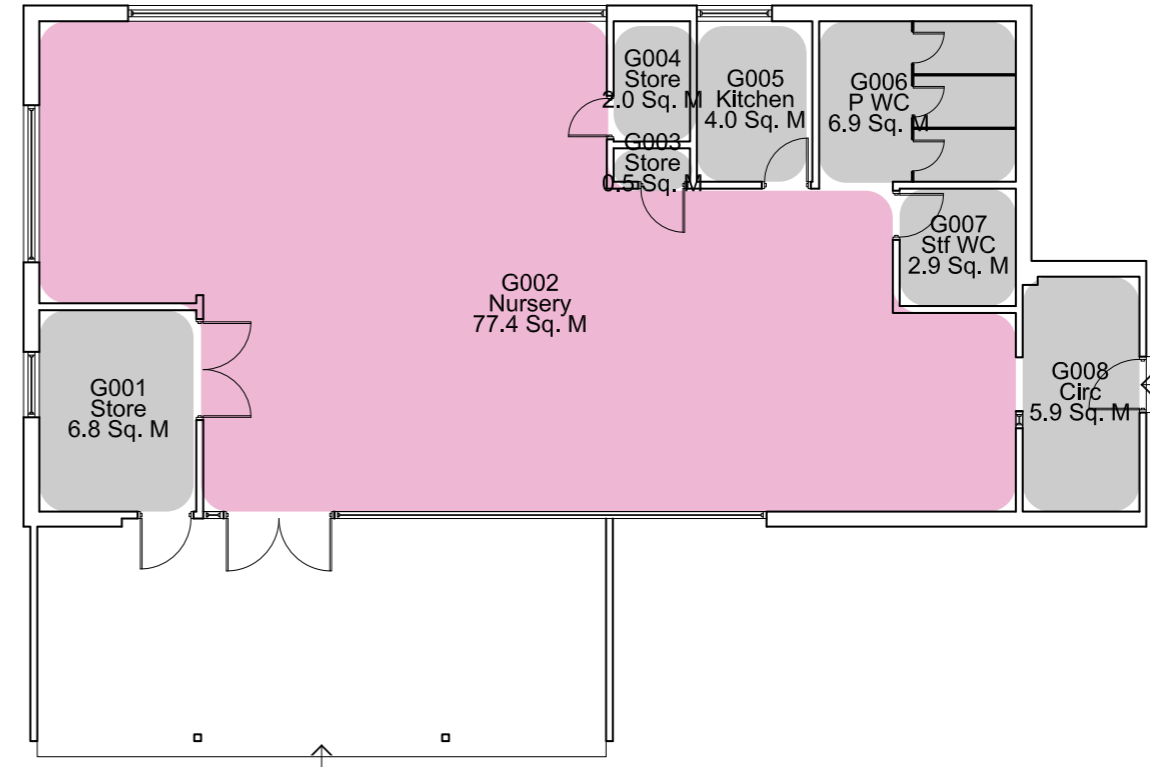
The building has a felt flat roof. Walls are timber clad and UPVC curtain walled. Doors are timber. Floors are of a solid construction.

### Modular Nursery

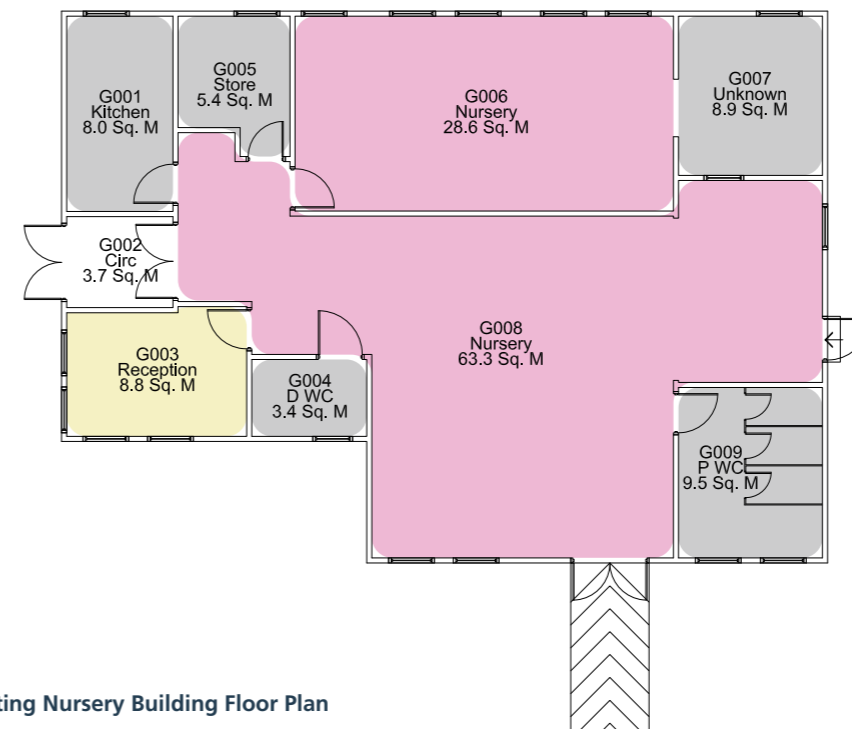
**GEA 115.8 sq.m**  
**GIA 108.9 sq.m**

### Nursery Building

**GEA 149.1 sq.m**  
**GIA 143.9 sq.m**



26 Existing Modular Nursery Floor Plan



27 Existing Nursery Building Floor Plan



## 2.18 The Existing Site - The Russell School



Modular Nursery



Nursery Building



### Modular Nursery Areas

| Room             | Name        | Net Internal Area (m2) |
|------------------|-------------|------------------------|
| G001             | STORE       | 6.8                    |
| G002             | NURSERY     | 77.4                   |
| G003             | STORE       | 0.5                    |
| G004             | STORE       | 2.0                    |
| G005             | KITCHEN     | 4.0                    |
| G006             | PUPIL WCs   | 6.9                    |
| G007             | STAFF WC    | 2.9                    |
| G008             | CIRCULATION | 5.9                    |
| <b>Total NIA</b> |             | <b>106.4</b>           |

### Nursery Building Areas

| Room             | Name        | Net Internal Area (m2) |
|------------------|-------------|------------------------|
| G001             | KITCHEN     | 8.0                    |
| G002             | CIRCULATION | 3.7                    |
| G003             | RECEPTION   | 8.8                    |
| G004             | D.WC        | 3.4                    |
| G005             | STORE       | 5.4                    |
| G006             | NURSERY     | 28.6                   |
| G007             | UNKNOWN     | 8.9                    |
| G008             | NURSERY     | 63.3                   |
| G009             | PUPIL WCs   | 9.5                    |
| <b>Total NIA</b> |             | <b>139.6</b>           |

# 2.19 The Existing Site - The Russell School

02

## The Russell School\_ Modular Buildings

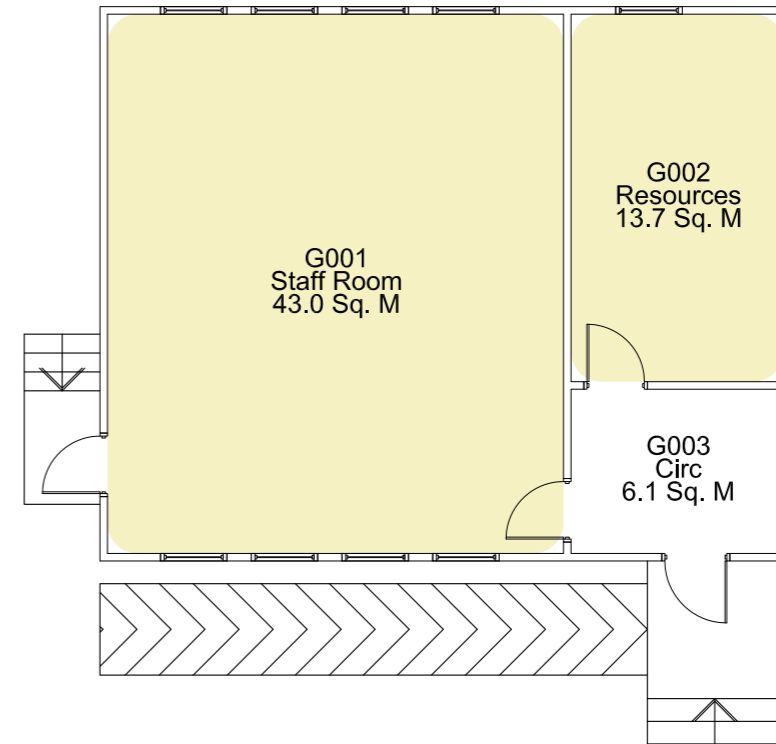
### Staff Room

The staffroom mobile was installed in 1997 and now provides space for a staff room and resources.

The building has a pitched decra metal sheet tiled effect roof. External walls are timber clad, windows are UPVC and doors are timber. Floors are suspended timber.

### Staff Room

**GEA 67.0 sq.m**  
**GIA 63.7 sq.m**



28 Existing Staff Building Floor Plan

## 2.20 The Existing Site - The Russell School



| Room             | Name        | Net Internal Area (m2) |
|------------------|-------------|------------------------|
| G001             | STAFF ROOM  | 43.0                   |
| G002             | RESOURCES   | 13.7                   |
| G003             | CIRCULATION | 6.1                    |
| <b>Total NIA</b> |             | <b>62.8</b>            |

Allotment Area



Staff room



## 2.21 The Existing Site - The Strathmore School

02

### The Strathmore School\_ Existing Building

The school caters for 47 pupils from key stages 2 to 5 (7 to 19 years old). It is well resourced with materials to promote the pupil's development. All pupils have equal access to resources that they need to progress towards the targets in their statements. The building is single storey with wheel-chair access throughout and is well equipped.

The facilities include:

- Main single storey building which consists of seven classrooms, hall, food technology room, sensory room, therapist's room, medical or music room, hydrotherapy pool, resources room, sensory garden and a three bedroom bungalow used to promote independent living skills.
- The pupils also have access to specialist computer hardware and software programmes. The school has two specialist mini buses.
- The school has ten teachers and 23 classroom assistants (including job shares and part-time staff).The occupational therapist, speech and language therapist, music therapist, music and drama teacher each support the school one day each per week, with the physiotherapist supporting half a day each week.
- There is a parent support worker who works 1.5 days a week.
- The school also has an administration assistant, teacher's administration assistant, caretaker, four midday meals supervisors, nurse (3 days a week) and two cooks.



## 2.22 The Existing Site - The Strathmore School



Strathmore School





# Consultations

The Russell & Strathmore Schools  
Design & Access Statement

03

# 3.1 Consultations

03

## Introduction

This section of the D&A statement has been prepared to summarise the pre-application engagement that has taken place during the design development of the Russell Primary School and Strathmore SEN Schools.

Consultations between the respective core disciplines within the Atkins Design Team are excluded from this section of the report, because the input of each discipline is covered elsewhere in this report.

Consultations included within this section of the report include but are not restricted to the following stakeholders:

- Russell & Strathmore School Head Teachers
- School Business Managers
- School Governors
- Staff
- Parents
- Pupils
- Neighbours
- Planning Officers (including Urban Design Team, Ecology and Tree Officers)
- Highways Dept.

In addition the consultations undertaken with the following parties that sit outside of the Atkins and F&G core design team are also included within this section of the report.

- Flood Risk Assessor
- Archaeological Consultant
- Arboricultural Consultant
- Ecological Consultant
- Transport Consultant
- Travel Plan Accreditation

Consultations were felt necessary to seek the views and advice of consultants, key stakeholders and the wider community and reflect their ideas, views, aspirations, ambitions etc. in the developing design solutions.

## Consultation Events - Staff, Parents, Children and the Local Community

Four separate consultation events were held as follows:

- 09-07-2014, Staff, Parent and Public Consultation Evening Held at Strathmore SEN School.
- 16-07-2014, Staff, Parent and Public Consultation Evening Held at Russell School.
- 20-08-2014, Public Consultation Evening Held at Ham Youth

- Club.
- 09-09-2014, Staff, Parent and Public Consultation Evening Held at Russell School.

The events were all hosted by the LBRuT client team and the Atkins Design Team. The main aims of these planned engagements with the staff, parents, children and the local community were to:

- Provide the opportunity for informal and continual involvement;
- Raise awareness of the project in the area;
- Receive and share information;
- Obtain the views of the community and where possible take these into account in the design development.

Attendees at the various events were encouraged to provide the client and design team with their feedback using one of the following methods:

- Either complete feedback forms and deposit these with the LBRuT representatives at the meetings or :
- Email their feedback to one of the LBRuT representatives present at the event.

94 people in total signed-in to the drop in events. Of the 94 attendees, 22 people completed feedback forms and 11 emails were received by LBRuT.

The information received from the attendees at the various events was collated, processed, summarised and tabulated into a matrix contained with a spreadsheet, produced by LBRuT.

This spreadsheet has been included within Appendix A.2 of this report.

## Engagement Meetings - Respective Head Teachers & Staff, LBRuT Client Team, Atkins Design Team, School Governors.

Numerous engagement meetings and events were held between the respective head teachers & staff, LBRuT client team, the Atkins design team, school governors and other key stakeholders from the commencement of the design stage of the project in January 2014, through the feasibility stage of the project that occurred between January 2014 and April 2014, to the date of this planning submission in December 2014.

The purpose of these meetings and events was to enable information to be circulated and the brief and design options and solutions to be developed in a collaborative environment of mutual respect and trust.

These meetings were also forums for processing the feedback from the consultation events, which also informed the briefing and

design development processes.

## Planning

### Pre-application Discussions, Submissions & Feedback

A number of pre-application meetings were held with key staff from LBRuT Department of Planning on 7th October 2013, 12th February 2014 and 11th September 2014.

The discussions covered the following issues :

- The site is within an Archaeological Priority Area
- The site is within the Petersham Conservation Area
- The site is within Flood Zone 2
- Part of the site is within Metropolitan Open Land (MOL)
- There are a number of protected views within this district of Richmond as follows:

Ham House to Orleans House  
Marble Hill House  
Twickenham to Petersham

- The site is also adjacent to the listed buildings and Buildings of Townscape Merit
- The site to the west and north is Other Site of Nature Importance
- The Avenue to the north is a historic park and garden
- The Copse, Ham is designated Public Open Space.

A submission for pre-application planning advice was deposited with LBRuT planning department in July 2014.

The purpose of the meeting on 11th September 2014 was to discuss the planning issues associated with the proposals and agree a way forward. The meeting was led by LBRuT Planning Officer.

Following the meeting on 11th September, the planning officer summarised their comments in a brief written report, which lists the key planning policies under the relevant headings. The Planning Officer recommended that the Atkins Design Team refer to these in detail, prior to the submission, to demonstrate how the scheme meets the requirements.

The original design solution, together with the design development that occurred subsequent to the meeting on 11th September is covered within the next section of this report, Design Development.

This section of the report explains how the issues raised by Lucy in respect of the design of the building have been addressed.

Issues covered include the massing of the building, the overall height of the building and the fenestration and facade treatments.



The remaining issues raised by Lucy are addressed within a separately bound document entitled Planning Statement and Statement of Community Involvement. This document is intended to be read in conjunction with this Design and Access Statement and is submitted as part of this planning application.

### **Flood Risk Assessor**

Based on information from the Environment Agency Flood Map the site is partly on the extent of extreme flood and near the danger area boundary.

Since these maps only cover flooding from rivers and the sea, it should be considered that flooding can occur at any time and in any place from sources such as rising ground levels, burst water mains, road drains, run-off from hillsides and sewer overflows.

A full Flood Risk Assessment was commissioned by LBRuT in November 2014. The Flood Risk Assessment prepared by RAB Resilience and Flood Risk, dated 21st November 2014, is included as part of this Planning Submission within a separately bound document.

### **Archaeological Consultant**

The site falls under an Archaeological Priority Zone/Area of Significance (Richmond Park) and therefore an Archaeological Study has been carried out. An Archeological Desk-Based Assessment was commissioned by LBRuT in April 2014.

The Archeological Desk-Based Assessment, dated April 2014, was prepared by AOC Archeological Group and it is included as part of this Planning Submission within a separately bound document.

### **Arboricultural Consultant**

An Arboricultural Impact Assessment and Tree Survey was produced by the Atkins Design Team in November 2014. These documents are included as part of this Planning Submission within a separately bound document.

### **Ecological Surveyor**

A Phase 1 Ecological Report was commissioned by LBRuT in October 2014.

The Phase Ecological Report prepared by Mouchel, dated October 2014, is included as part of this Planning Submission within a separately bound document.

### **Transport Consultant**

A Transport Statement was commissioned by LBRuT in September 2014. The Transport Statement prepared by WYG, dated 9th

September 2014, is included as part of this Planning Submission within a separately bound document.

### **Travel Plan Accreditation**

STARS (Sustainable Travel Active, Responsible, Safe) is Transport for London (TfL) Travel Plan Accreditation Programme which provides a framework and guidance for nurseries, schools, colleges and academies to put in place a travel plan at the same time as applying for STARS Accreditation.

Russell Primary School has applied for STARS Accreditation and the current accredited school travel plan for the existing Russell Primary School has been downloaded from [stars.tfl.gov.uk](http://stars.tfl.gov.uk) and is included within this Planning Submission in a separately bound document.



# The Design Process

The Russell & Strathmore Schools  
Design & Access Statement

04

# 4.1 The Design Process

04

## Introduction

Over the last year the Atkins design team have been working closely with the LBRuT Client departments, the staff and pupils of the Russell and Strathmore Schools, LBRuT Planning Department, school governors and other key stakeholders, to define the outline brief and develop this into a robust design proposal for submission in this planning application.

The developed brief requires the Russell Primary and Nursery School to expand from a 1FE to a 1FE plus a shared form of entry (an additional 4 classrooms) as part of a shared form of entry policy in the Ham and Petersham area. This would mean the school growing from its current 236 pupil capacity to 330 pupil capacity, plus 26 pre-school places, making a new total pupil capacity of 356 pupils.

The developed brief also requires part of the Strathmore School to relocate from its current site and building to co-locate with the new Russell School.

The existing Strathmore SEN provision will be split into three separate parts and be relocated as follows:

- Strathmore at Russell Primary School - 18-24 Primary School places
- Strathmore at Grey Court School - 18-24 Secondary School places
- Strathmore at St Richard Reynolds Catholic College - 18-24 Secondary School places

## Key Objectives and Design Principles

The proposed co-located Russell Primary School and Strathmore SEN provision is accommodated within a new purpose designed complex, comprising two teaching wings connected by a single storey link block containing the main entrance lobby, staff room, WCs, offices, corridor and some teaching space.

The Strathmore SEN wing comprises 3 nr SEN teaching classrooms and associated group rooms, WCs, sensory room, play rooms, hygiene facilities, stores and offices. This wing is arranged over a single storey.

The Russell Primary School wing comprises 11nr primary school classrooms and 1 nr pre-school classroom and associated group rooms, WCs, hygiene facilities, stores and cloaks areas. This wing is arranged over two stories.

The gross internal floor area of the proposed co-located provision is 2576 sqm.

The developed overall site plan, floor plans, sections, elevations 3D views, accommodation schedule and outline specification are included within Section 4 of the Report. This section also includes a number of buildings that have inspired the proposals for this site.

These are civic buildings, designed by Hampshire County Council Department of Architecture.

These building are similar in size, scale, massing, materiality etc. to the proposals for Russell and Strathmore Schools.

Read in conjunction with the elevations and 3D views, the general intent for the look and feel of the proposed building is captured within this section of the report.

The developed overall site plan shows hard and soft landscaping, car parking, site access and egress etc. This is also included within Section 6 of the report, which includes a strategy for the hard and soft landscaping, street furniture, boundary treatments etc.

## Consultation Process

The accommodation schedule for the co-located school buildings is informed by relevant Building Bulletin documents such as BB99 (Primary Schools) and BB102. The brief and proposed design solution has evolved over a number of engagement meetings and consultation events with LBRuT Client departments, the staff and pupils of the Russell and Strathmore Schools, LBRuT Planning Department, school governors and other key stakeholders.

This process has been supported by an analysis of the existing facilities offered by the two existing schools, which includes the merits and shortcomings of the existing facilities.

## Vision and Image:

As the design has developed, a vision and image for the development has emerged, which can be summarised as follows:

- A building that will define the quality of the teaching and learning.
- A building that will make a positive statement to the local residents.
- A building that will complement the surrounding buildings of particular architectural merit and be sensitive to its surroundings.
- A building that will be welcoming and inclusive.
- A building that will be accessible and modern and portray quality.
- A building that will be safe for staff, pupils and visitors

## Options

Atkins and Faithful and Gould were initially commissioned by London Borough Richmond Upon Thames to investigate the feasibility of expanding the existing Russell Primary School from a 1FE to a 1FE plus a shared form of entry (an additional 4 classrooms) as part of a shared form of entry policy in the Ham and Petersham area.

This would mean the school growing from its current 236 pupil capacity to 330 pupil capacity plus 26 pre-school places, making a new total pupil capacity of 356 pupils.

In so far as the Stathmore SEN provisions are concerned, LBRuT have obligations and commitments regarding the co-location of SEN provisions alongside main stream school provision. There are proven educational benefits for SEN pupils, in receiving their education within a mainstream school or within a co-located SEN school and mainstream school.

The feasibility study should also investigate the co-location of part of the existing Strathmore SEN provision within the new school complex.

Three options for redeveloping the site were considered as part of the original feasibility study for the site. All of these options were based on the fundamental premise that the two schools must become co-located within the same building complex and that to meet programming, policy and budgetary constraints the existing Strathmore SEN school would need to remain completely operational in it's current form for the duration of the development.

Options 1 and 3 comprised remodelling, refurbishments and extensions to the existing Russell Junior school building, followed by the demolition of the existing Strathmore SEN School, the Russell Infants School, Annexe Building and demountable Staff Building.

Option 2 comprised the construction of a new purpose designed co-located school complex and ultimate demolition of all of the existing buildings on the site

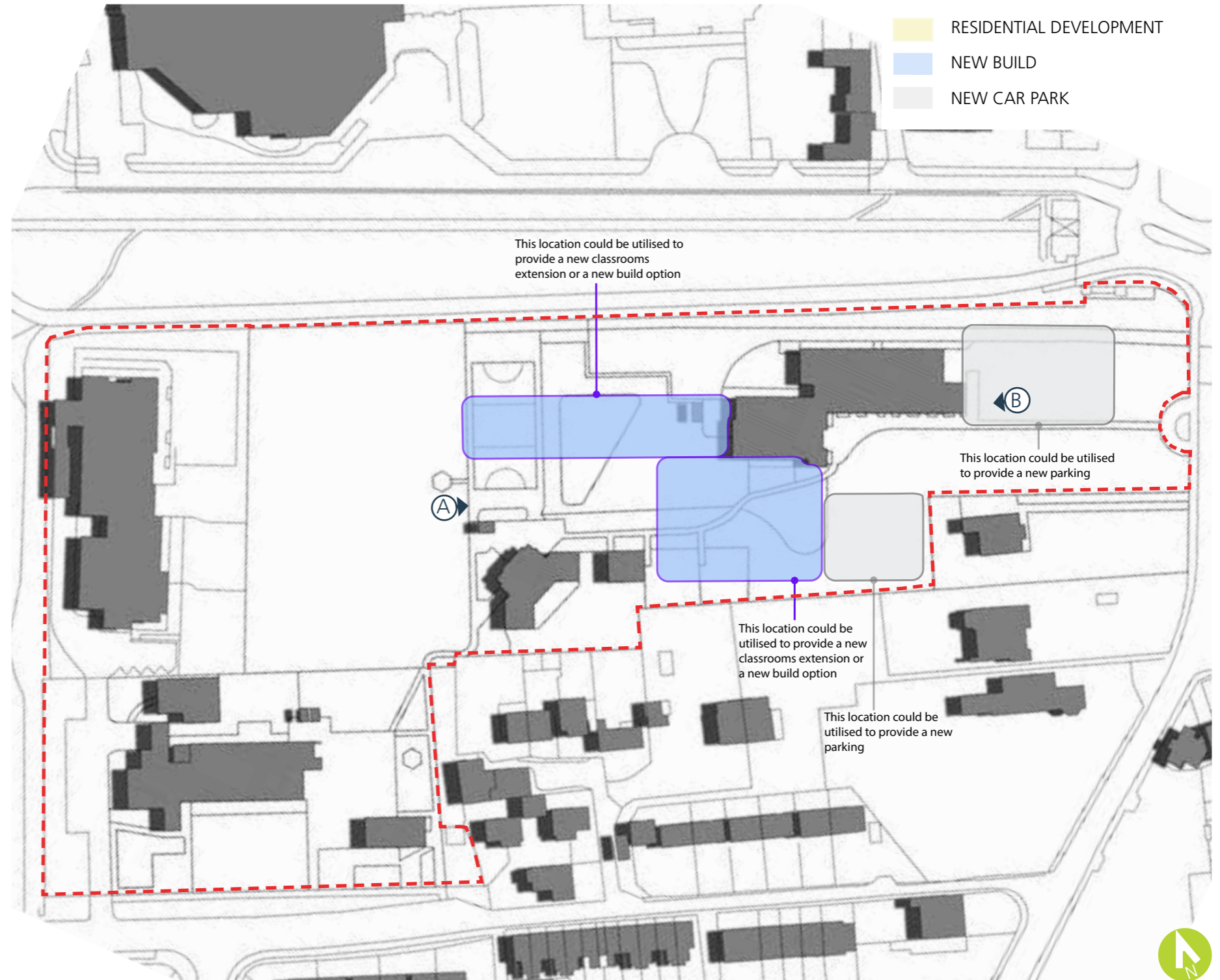
Following extremely careful consideration by the school, governors and the LBRuT client team, the new build option 02 was deemed to be the preferred option. Although this was the more expensive of the three options, it offered distinct benefits and advantages over the other options, which are summarised as follows:

- A new build solution will enable all areas of the school to comply with current building bulletin recommended area standards.
- A new build solution will enable all areas of the school to comply with current building regulation standards.
- A new build solution will enable a significant reduction in building footprint, compared to options 1 and 3. The impact on the Metropolitan Open Land (MOL) is therefore less.
- The new building is set further back into the MOL, as viewed from Petersham Road, which mitigates the increased overall building height and lessens the potential visual intrusion into the MOL, when viewed from Petersham Road.
- The floor planning, in particular the circulation is far more efficient and the gross internal floor area is relatively less, thus reducing running costs and whole-life costings.

# 4.2 The Design Process - Building & Site Appraisal

## Initial Building Appraisal

During the initial client and school consultation, several areas were highlighted as development opportunities. These areas are highlighted on the following plan with a brief description of the opportunities available.



31 Potential Areas for Development

# 4.3 The Design Process

04

## Preferred Option 02

The Strathmore SEN school and Russell Primary School are conceived as two distinct entities, within the same building complex. The layout of the new building is symbolic of the commitment of LBRuT to the co-location of SEN provisions alongside the main stream school provision.

The layout provides an environment conducive to educating primary school aged SEN pupils within a co-located SEN school and mainstream primary school.

Each school is accommodated within its own distinct block or zone. The Strathmore SEN block is a single storey construction and the Russell Primary School is a 2 storey construction. A single storey link block containing a shared entrance lobby, reception, staff room, WCs, Offices and some teaching space and a link corridor, joins the two schools and provides a suitable transition zone.

The accommodation within each block is arranged in a linear type format. The principal rooms or spaces are 'double-banked' either side of a top lit central corridor or internal street. In the case of the two storey Russell Primary School, voids are positioned within the corridor floor slab, which allow natural light to penetrate down to ground floor level, from first floor rooflights.



|                       |                  |
|-----------------------|------------------|
| Ground Floor Plan_GIA | 1928 m2          |
| First Floor Plan_GIA  | 648.7 m2         |
| <b>TOTAL GIA</b>      | <b>2576.7 m2</b> |

Ground Floor Plan

# 4.4 The Design Process

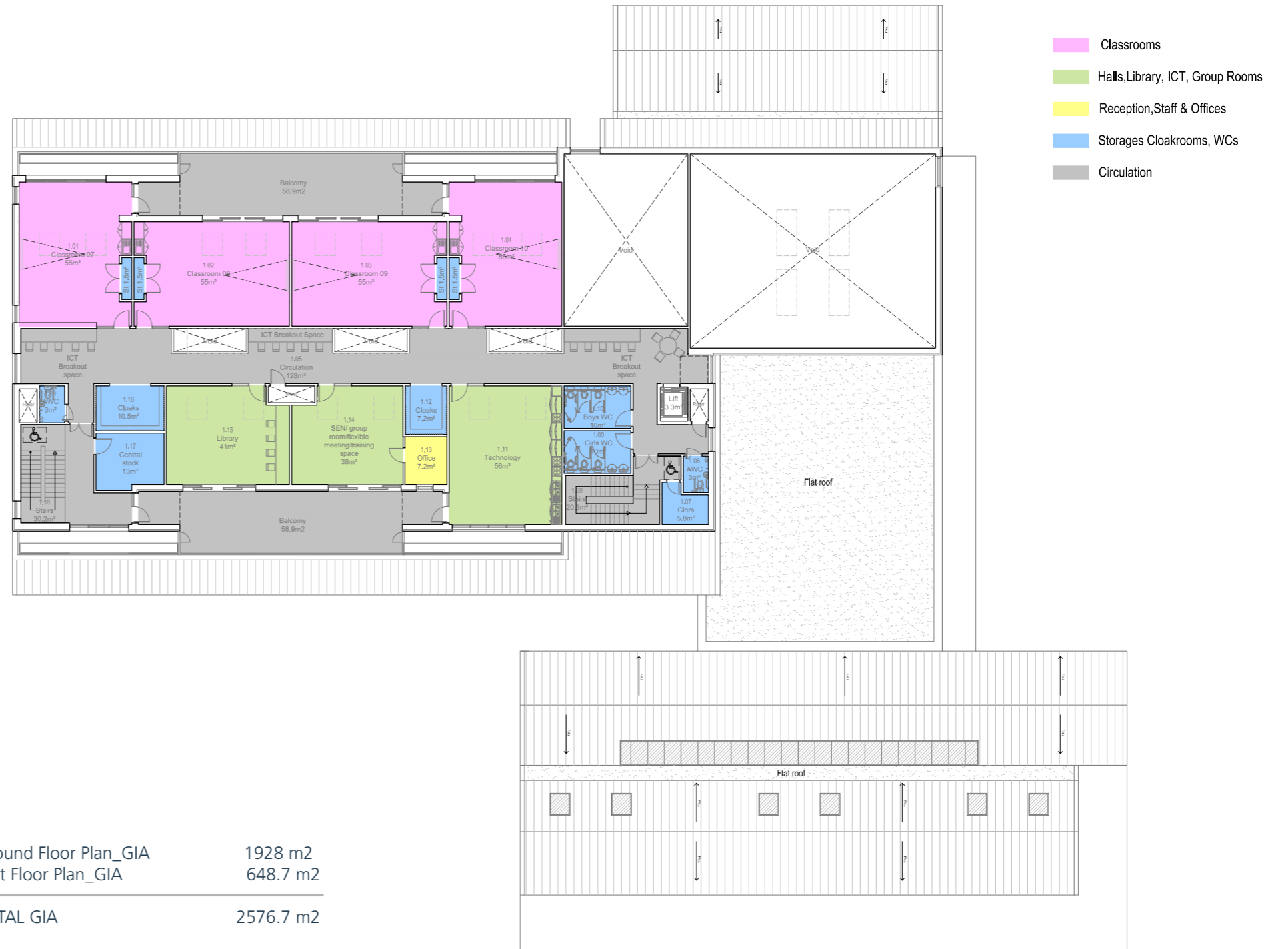
These voids provide a dual function in that they are also an integral part of the natural ventilation strategy for the buildings. Stale air from the ground floor classrooms is drawn through transfer grilles into the ground floor corridors. This air is drawn up through the voids in the corridor floor slabs and is expelled through the opening vents in the first floor roof lights.



Aerial Perspective From the North-East



Aerial Perspective From the South-West



|                       |                  |
|-----------------------|------------------|
| Ground Floor Plan_GIA | 1928 m2          |
| First Floor Plan_GIA  | 648.7 m2         |
| <b>TOTAL GIA</b>      | <b>2576.7 m2</b> |

# 4.5 The Design Process - Proposed Site Layout

04





## 4.6 The Design Process - Key Design Elements

### External Appearance, Massing & Facade Treatment

The materiality and massing for the new building has been driven in part by the desire to maintain a dialogue with the local vernacular buildings within this district of Richmond.

Clay facing brickwork and natural slate roofing predominate as materials used for surrounding buildings constructed in a range of different architectural styles, across a number of different eras.

The clay facing brickwork will be carefully selected to closely match the local clay indigenous to Richmond. This is symbolic of the building being intrinsically connected to its site and locality.

The first floor accommodation within the Russell Primary School is conceived as a series of 'loft' spaces, within a roof space. This allows the eaves line to the roof to be brought down to first floor level and reduces the scale of the facade to a level more appropriate for the younger (nursery and reception children).

The massing of each element of the building has been informed by the 'room in the loft' approach to arranging the first floor accommodation and the principal of incorporating pitched roofs with traditional roof pitches (i.e. 35 degree min.).



Architectural Inspiration - Alton Library, Alton, Hampshire, by Hampshire County Architects



However, the overall height of the two storey Russell Primary School block is directly informed by the feedback received from LBRuT planners during our submission for pre-application planing advice.

Previous iterations of the proposals for the building facades showed the overall height of the building some 1.5m higher than currently drawn. In response to these proposals, LBRuT advised the design team to reduce the ridge line down to a height in keeping with the parapet of the a flat roofed two storey school building. The rationale of LBRuT was an acknowledgment that the existing school buildings within then MOL do not exceed one storey (with a pitched roof) and a desire to lessen the impact of the building in respect of the MOL.

To address this planning directive, the Atkins design team increased the area of flat roofing between the pitched roofed elements of the primary school block and reconfigured the pitched roofing to the main and small hall. This effectively reduced the ridge line down to a height considered more appropriate for the site by the LBRuT Planners.

The fenestration is arranged as simple vertical or horizontal slots within the facade, with the glazed panels extending down to floor level. The vertical emphasis to gable fenestration embrace the long views across the site, to the north-east and south-west

The colour scheme and vertical formatting of the glazed spandrel panelling to glazed curtain walling and 'Trespa' type wall panelling, is a reference to the building's wooded setting and is symbolic of the new and existing tree planting on the site and the status of Russell Primary School as a Forest School.

**Material Choice**

The proposed material palette used for the new building will comprise of the following:

- Slate Coloured Pitched Roofing
- Clay Facing Brickwork
- PPC Aluminium Double Glazed Windows, Doors & Glazed Curtain Walling
- Zinc effect Cladding Panels with appropriate Jointing (Balcony Cheeks)

**3D Views**



View of the Russell Primary School Looking North-East



View of the Strathmore SEN School Looking South-West

East and North Elevations



East Elevation



North Elevation

- Ceramic Backed Double Glazed Coloured Spandrel Panels to Glazed Curtain Walling
- Zinc Effect Parapet Cappings
- Coloured 'Trespa' Wall Panelling
- High Performance Flat Roofing

**Sectional Treatment**

The sectional treatment of the building has been designed to allow for the following:

- Good Natural Ventilation and Internal Air Movement
- Good Internal Natural Daylight Levels
- Good Access to External Teaching and Recreational Areas (Balconies and Ground Floor External Classrooms)
- Bring the Eaves Line Down to an Appropriate Height for Infant pupils.

**Scale & Amount**

The scale and amount of the development proposals for the site and building are directly informed by the following :

- The recommendations and requirements of the planners in respect of the following: :
  - The location of the site within Petersham conservation area
  - The designation of part of the site as Metropolitan Open Land (MOL)
  - Protected Views (Ham House to Orleans House, Marble Hill House, Twickenham to Petersham)
  - The adjacency of the site to listed buildings and Buildings of Townscape Merit
  - The adjacency of the site to an historic park and garden
- A thorough analysis of the brief developed with the respective head teachers, governors, staff and pupils.
- A thorough analysis of the brief requirements set out within BB99 (DfE Guidelines on the design of Primary School Buildings) and BB102, Designing for disabled children and children with special educational needs.



South Elevation / Section



South Elevation



West Elevation

## Layout

The development of the proposed overall site layout has been a collaborative event, with the Atkins Design Team, the school staff, pupils and governors, the LBRuT client department and the LBRuT planners all contributing to proposals included within this Design and Access Statement.

Specific examples of the direct school led design initiatives include the covered balconies to the first floor of the Russell Primary School, The size and layout of the entrance lobby and waiting area, the covered external teaching spaces to the ground floor classrooms to both schools and the covered external space at the entrance to Strathmore SEN school.

The fundamental requirements that inform the position of the building on the site are three fold as follows:

- All existing buildings that currently occupy the site must remain fully operational for the duration of the construction of the new school complex.
- The new development must respect the MOL, particularly when viewed from Petersham Road.
- The existing sports pitch must remain fully operational for the duration of the construction of the new school complex.

The solutions for the overall site layout are covered in more detail within Section 5 of this Report - Landscape.

In broad terms however, the solutions will provide stimulating and vibrant learning environments, focussing on the internal and external settings to provide formal and informal learning resources for children of all abilities.

The vision for The Russell & Strathmore Schools is to create a welcoming and safe learning environment. Access provisions to the building have been designed to ensure the safety of pupils entering and circulating around and within.

The shared main entrance to the co-located building has been designed to be a pleasant and welcoming arrival space. Further design development of the facade treatment to the link block, which could include the introduction of graphical manifestations to glazing, coloured fins to curtain wall mullions, will engender a sense of ownership and uniqueness for pupils, staff governors and visitors alike.



### Internal Layout

The fundamental requirement for the interior architecture is for all classrooms to have direct access to external teaching space.

The layout allows each first floor classroom to the Russell Primary School to have direct access out onto a covered balcony.

A similar principal applies to the ground floor classrooms to both the Stathmore SEN School and the Russell Primary School. Every ground floor classrooms has a direct connection to a external teaching space.

This accords with the status of the Russell Primary School as a Forest School and complies with the requirement for each pupil to spend a certain amount of time outdoors (half of the curriculum).

The new buildings are characterised by an open and airy environment. This is achieved through the incorporation of wide corridors, double height spaces, roof windows, generous glazing with windows extending down to floor level,



Interior Precedents



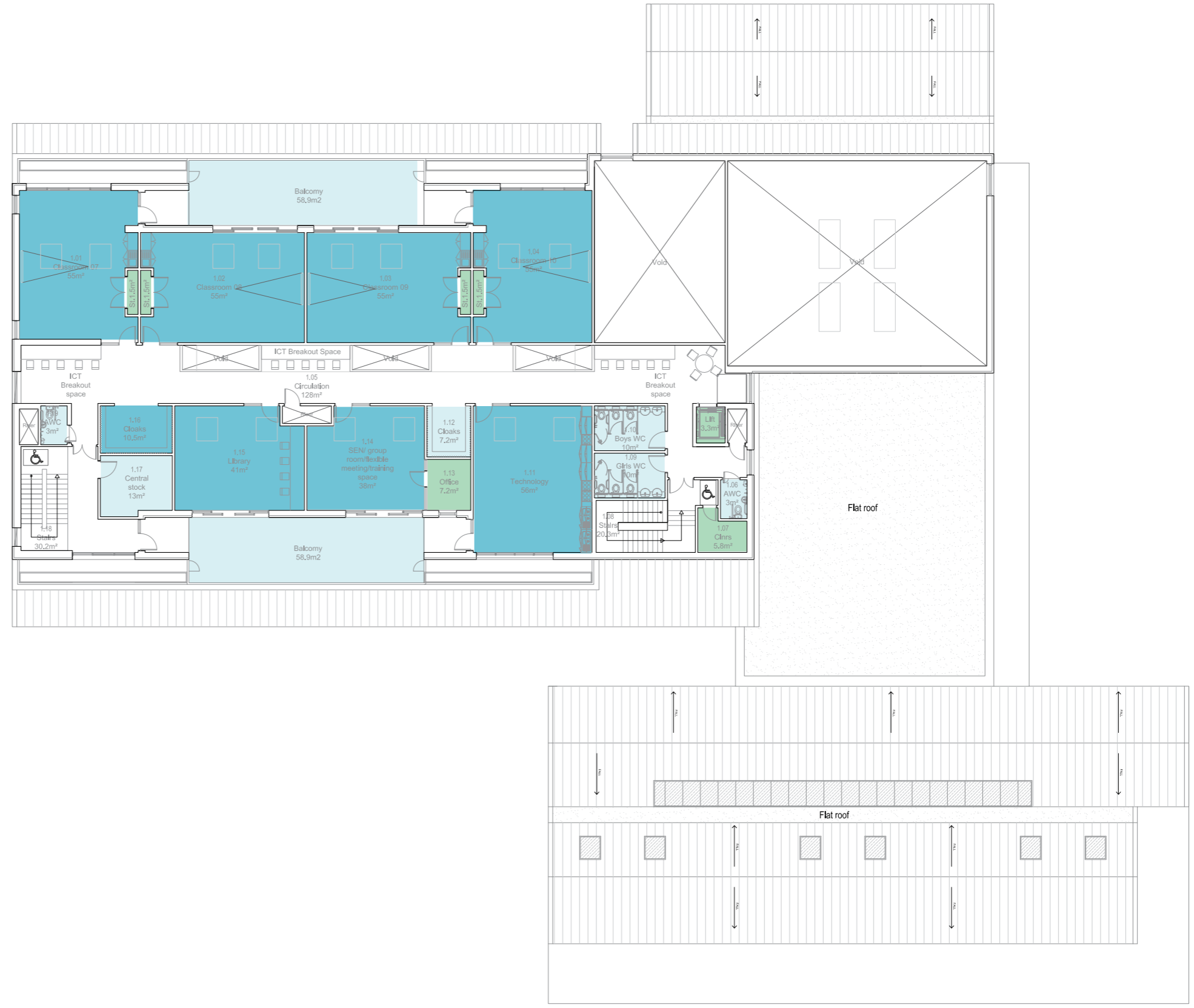
### Ground Floor - Internal Layout

- Teaching areas
- Staff areas
- Non Teaching areas used by pupils



### First Floor - Internal Layout

- Teaching areas
- Staff areas
- Non Teaching areas used by pupils









# Landscape

The Russell & Strathmore Schools  
Design & Access Statement

05

# 5.1 Landscape - Overview

05

## Setting and Planning Considerations

The site is located in Richmond, Greater London, and is bordered by predominantly residential properties to the east and south. Bordering the site to the north is The German School with access to Ham polo club. To the west of the site is Strathmore School and a significant area of green space, further west is Ham House & Gardens (National Trust).

The main vehicle access to the site is off Petersham Way which runs the length of the eastern boundary. A secondary entrance is off Meadlands Drive located at the south-western corner of the site.

The school falls under an Archaeological priority zone/ area of significance (Richmond Park), and is also part of the Ham House conservation area. The Copse, the area of land to the west of Strathmore School, is designated Metropolitan Open Land (MOL), and there are no listed buildings or Buildings of Townscape Merit on the site.

## Vision

The vision is to provide a stimulating and vibrant learning environment, focussing on the internal and external settings to provide both formal and informal learning resources for children of all abilities while ensuring a stimulating and enriching environment is provided that does not compromise the openness of the MOL.

## Concept & Principles

The landscape and its relationship with the school buildings will be critical to the success of the scheme. The design will successfully integrate the structural components of the school into the landscape and retaining existing features where possible will create a stimulating and inspiring landscape that is sympathetic to its context.

Both Russell and Strathmore School have been heavily involved in the design development of the external layout and through detailed consultation the design has evolved to address the concerns of each party and meet the aspirations of both schools.

Considered and sensitive design techniques have been adopted throughout the design process, and the existing topography of the site will be utilised to reduce the impact of development on the surrounding environment and the MOL. Fundamental to this approach will be the retention of existing mature trees across the site wherever possible, and the provision of new planting to strengthen and augment the existing planting, especially along the site boundaries.

The ethos that architecture, landscape, and community are intrinsically linked will be promoted by providing efficient circulation routes throughout the site, linking a series of dynamic, flexible and robust external spaces each of which will be designed to enrich and

provide an imaginative environment reflective of a school with a strong community ethos at its core.

One of the key principles of the design is “The shared and integrated environment” approach to the scheme. Key design considerations have included:

**Primary School:** Provision of both hard and soft surfaces to create varied opportunities for noisy and quiet, active and sedentary, lone and social play, with a priority based on the separation of quiet play areas from boisterous play areas. Informal recreation areas for sitting and socialising, provision for small groups and quiet activities, hard surface play area for team games. Grass pitches for both summer and winter games, along with informal group activities, have also be provided.

**SEN Facility:** Areas accessible to pupils throughout the school day will be enclosed and separate from pedestrian and vehicular access to the school and parking areas, the latter allowing for the high staff to pupil ratio and the expected greater number of visitors. The main entrance will be designed to take account of the number of cars, taxis, and minibuses which arrive at the beginning and end of the school day.

It is envisioned that each educational facility will be able to operate separately within its own space, yet still be able to demonstrate the flexibility to be able to join and share external spaces with the other educational facilities provided. The concept of “The shared and integrated environment” will create a strong sense of identity for the School, but the core ethos will be set within a unifying design for the site as a whole that draws on the existing materials palette to present a legible and easily comprehensible spatial fabric.

Once the existing primary school building is removed it will allow for the provision of hard landscape elements such as parking and play space to be located on the existing footprint, thereby limiting the impact on the existing open green space.

The landscape concept will make use of the existing landscape setting to compose and arrange spaces for social and quiet uses throughout, and will be developed in response to the current and future requirements of the School.

Existing trees have been retained where possible and proposals have been developed in conjunction with Arboricultural advice. Where trees are to be lost, mitigation measures have been proposed to compensate for the loss.

Trees will be planted in a linear formation through the site taking cues of the exiting tree locations which appear to date back to old hedge lines existing prior to any development and generous tree planting will reinforce the site boundaries and improve visual screening. The existing playing fields to the rear of the school will be retained. The demolition of the existing Infant Block will allow

the provision of a grassed open space adjacent to the Strathmore SEN Block and Meadlands Drive. This grassed open space will have the potential to be further developed in the future to provide a non-floodlit MUGA to include some community use.

The proposals allow for safe and secure Nursery and Reception play, whilst allowing the opportunity for interaction between all pupils. Separate spaces are linked by clear, defined access routes.

The existing nature area will be predominantly retained with an additional area being created to enhance the space. Small teaching spaces will be created with the design of the area being developed in conjunction with school and appointed ecologist.

## Access Strategies

The access strategy will focus on providing safe, secure and efficient movement corridors for all users, but with an emphasis on pedestrians and cyclists. The car park layout will maximise the number of spaces whilst being mindful of the loss of green space and impact on existing trees. Vehicle movement corridors will be clearly segregated and de-marked from pedestrian and cycle routes. Minibus parking and drop off facilities will be integrated into the design, and every care will be taken to ensure minimal impact on existing vegetation, and providing clear, comprehensible non-vehicular access routes linking the minibus parking facilities directly to the School.

## Materials

The scheme will utilise a carefully balanced selection of new materials, a range of textures being exploited to provide clear spatial demarcation whilst ensuring continuity and legibility throughout. All external spaces will be designed using age-appropriate materials, and will be safe and stimulating for all users.

The choice of hard materials will be sympathetic to the surrounding environment, with an emphasis on natural materials and colours which are in harmony with existing landscape.

The planting palette will contribute to the overall identity of the School whilst reinforcing site geometry, directing views, and defining comfortable, flexible spaces. Existing trees will be retained wherever possible, and will be supplemented with new tree and shrub planting that complements the existing planting palette without adversely affecting the existing nature of the MOL.

Species will be predominantly native, taking cues from the existing species found on site. However, where opportunities allow, a more diverse range of plants species will be promoted, providing a rich landscape for all pupils to learn and enjoy.

In addition to the nature area, an orchard and allotment area is proposed. This will allow pupils to fully engage with the landscape and learn through physical involvement with the outdoors.

# 5.2 Landscape - General Arrangement



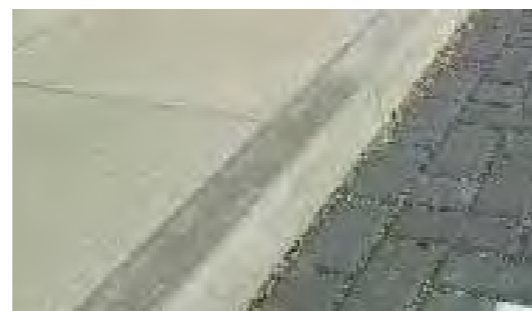
# 5.3 Landscape - Materials

05

## EDGING

### Standard Kerb

Location(s): Car Park & Roads  
Manufacturer: Marshalls  
Product: HB2  
Dimensions: 125 X 255mm  
Colour: Natural



Note: Droppers, quadrants required as per detailed design

### Standard Pre-Cast Concrete

Location(s): Pedestrian Areas  
Manufacturer: Marshalls  
Product: EF  
Dimensions: 200 x 50mm  
Colour: Natural



Note: Where appropriate galvanised steel edging and concrete block edging to be used to match paving - not shown)

**ALL IMAGES ARE PROVIDED FOR INDICATIVE PURPOSES ONLY.  
EXACT SPECIFICATIONS SUBJECT TO DETAILED DESIGN.**

## SURFACING

### Vehicle Standard Tarmac

Location(s): Road & Car Park  
Manufacturer: Contractors choice  
Product: Coated Macadam  
Colour: Black

Note: White lining to be as per London Borough of Richmond-upon-Thames Highways Design Standards for vehicular areas



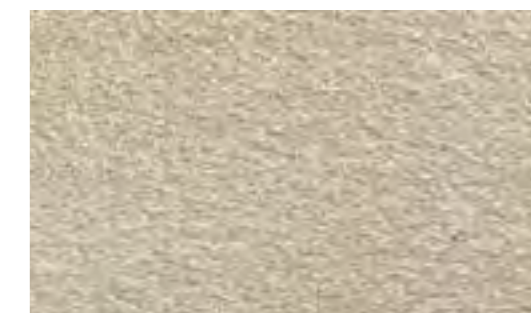
### Pedestrian Standard Tarmac

Location(s): Building Surrounds/ Footways  
Manufacturer: Contractors choice  
Product: Coated Macadam  
Colour: Black



### Slab Paving

Location(s): Main Building Entrance  
Manufacturer: Marshalls  
Product: Saxon  
Dimensions: 450x450x50mm  
Colour: Natural



### Resin Bound Gravel

Location(s): Social/ Dining/ Teaching Spaces  
Manufacturer: Sureset  
Product: Permeable Paving Surface  
Dimensions: 6mm  
Colour: Norwegian Pearl / Golden Pearl



### Self Binding Gravel

Location(s): Ecology Area  
Manufacturer: Breedon Aggregates  
Colour: Golden Amber



# 5.4 Landscape - Materials

## Block Paving

Location(s): Building Surrounds/ Footways  
 Manufacturer: Marshalls  
 Product: Keyblok  
 Dimensions: 200x100x50mm  
 Colour: Burnt Ochre



## Block Paving

Location(s): Building Surrounds/ Footways  
 Manufacturer: Marshalls  
 Product: Keyblok  
 Dimensions: 200x100x50mm  
 Colour: Natural



## Grasscrete

Location(s): Parking/ Delivery/ Circulation Areas  
 Manufacturer: Marshalls  
 Product: Grassguard 180  
 Dimensions: 500x300x100mm  
 Colour: Earth Brown



## Impact Absorbing Surfacing

Location(s): SEN Space  
 Manufacturer: Contractor to submit proposals  
 Product: Wetpour Safety Surfacing  
 Colour: To be confirmed

*Note: It is the Contractors responsibility to ensure that final design has approval of the play equipment manufacturer.*



## FENCING & GATES

### Closeboard Fencing

Location(s): Northern External Boundary  
 Manufacturer: Contractors choice  
 Height: 1.80m  
 Material: Treated softwood  
 Colour: Natural



### Timber Palisade Fencing/ Gates

Location(s): Internal Boundaries  
 Manufacturer: Contractors choice  
 Height: 1,200mm  
 Material: Treated softwood  
 Colour: Natural



### Weldmesh Fencing/ Gates

Location(s): Internal Boundaries  
 Manufacturer: CLD Fencing System  
 Product: Ultimate Profiled Panel System  
 Heights: 2,030 & 1,800mm  
 Material: Metal mesh and wire  
 Colour: Black



*Note: Solid panels around SEN space in selected locations*

**ALL IMAGES ARE PROVIDED FOR INDICATIVE PURPOSES ONLY.  
 EXACT SPECIFICATIONS SUBJECT TO DETAILED DESIGN.**

# 5.5 Landscape Furniture

05

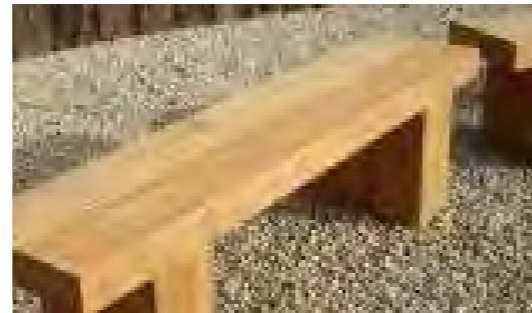
## Bin Store

Manufacturer: Falco UK Ltd  
Product: Falcolok-500  
Material: FSC Hardwood  
Colour: Natural



## Timber Bench

Manufacturer: Woodberry  
Product: Modular Bench (Solid Straight)  
Material: Hardwood Timber  
Colour: Natural



## Cycle Shelter

Manufacturer: Marshalls  
Shelter: Velozone  
Cycle Rack: R10  
Colour: To be confirmed



**ALL IMAGES ARE PROVIDED FOR INDICATIVE PURPOSES ONLY.  
EXACT SPECIFICATIONS SUBJECT TO DETAILED DESIGN.**



## 5.6 Planting Strategy

### PLANTING STRATEGY

#### Generally:

Materials, goods and workmanship shall be the best quality of their respective kinds, and those for which there is a British Standard or Code of Practice shall comply therewith. Planting shall not include species that are poisonous or have thorns. In regard to the timing of Horticultural Works, planting shall be carried out between November and March subject to suitable weather conditions. Bulbs shall be planted during October. Suitable weather conditions shall mean when the ground is moist but not wet and workable. Planting shall be suspended during periods of drought, when soil is frost-bound or waterlogged, during persistent drying cold winds or during any other conditions unfavourable to successful establishment.

The planting scheme outlined in the proposals will respond to the differing needs identified across the site. On the site boundaries where appropriate planting will be predominantly native adding ecological value and providing a buffer between the site and neighboring properties. Careful consideration will be taken as to exact locations mindful of foundation depths, light levels and visual intrusion. The intention is to create a vegetation structure which helps the edges of the development blend in well with the surrounding landscape.

#### Trees, Shrubs & Hedges:

BS 5236 – for Standard Trees 3.6m high and over. BS 3936 - Part 1 for Feathered trees, Whips and Shrubs - All plants shall comply with this specification and the relevant parts of BS 3936 and shall be to the height and/or spread as detailed. They shall be well grown, bushy, healthy and well established nursery stock of good form, hardy, free from defects, furnished with a fibrous root system exactly true to name as specified. Hedge plants will be planted in two staggered rows and kept regularly clipped at the required height.

#### Origin of Plants, Certification and Labelling:

All plants shall have been obtained from a reputable nursery and grown within the British Isles for at least one growing season if stock of local provenance is not available. The contractor shall provide a Certificate of Local Provenance and confirmation that all plants supplied comply with the specification. Plant samples shall be approved on site by the Landscape Architect prior to planting. In all grass/perennial planting the collection will be tagged with waterproof durable labels as specified by the Landscape Architect.

#### Tree Stakes & Ties

Tree stakes shall be straight peeled larch, ash or chestnut free from projections and pointed at one end. Impregnated with non-injurious timber preservative to at least 150mm above ground level and stained/painted black. The dimensions shall be 1800mm long x 75mm round x 1 per tree driven to finish 1000mm above ground level. Tree Ties shall be rubber or plastic webbing using spacer blocks or collars to hold tree clear from stake at all points. Blocks, which require a nail fixing, will not be permitted. The type of all tree ties shall be subject to approval. Each stake shall have one tie fixed with 100mm of the top of the stake. Ties shall be fixed so that they cannot work loose and drop down the stake and tree.

#### Mulch

The mulch shall comprise matured British conifer bark with an even particle size distribution of 15 – 65mm with no dust or fines and less than 5% wood content. The mulch shall be matured for 16 weeks and naturally heat treated where temperatures have exceeded 50 degrees Celsius for a minimum period of 14 continuous days followed by a period of stabilisation. The pH shall be between 4.5 and 5.8. The mulch shall be pest, disease and weed free and free of Methyl Bromide contamination. Samples will be submitted for consideration and approval prior to use on site.

#### Peat Free Tree and Shrub Planting Compost

Documentary evidence of the use of peat free soil materials must be supplied from nursery growers and suppliers for plants that are not soil grown. Organic composted material must be graded 25mm and free from biodegradable material.

#### Turfing

Approved topsoil to be 150 mm thick is to be provided and spread by the contractor to all turf areas as specified on the drawings. At edges of sculptural landform, material is to be applied and compressed as necessary to create sharp angular corners allowing appropriate conditions for turf establishment. On landform where banks exceed 30-degree slopes the turves are to be laid horizontally and secured with Greenstake biodegradable landscape stakes. Turf species mix to include; 25% Aberimp (perennial Ryegrass); 20% Raisa (Chewing Fescue); 35% Barcrown (Slender Creeping Red Fescue); 20% Limousine (Smooth Stalked Meadow Grass).

#### Seeding

Seed mixtures from suppliers must contain varieties of British origin that are in the top ten recommended varieties listed by STRI 2000 with regards to wear and tear and establish in a wide range of soils.

#### Tree pit in paving size and Construction

Pits: shall be 600 mm wider than the diameter of the rootball with a minimum size of 900 x 900 mm. Minimum depth of topsoil to be 900 mm, the depth of the excavated pit will be sufficient to accommodate the rootball and to obtain the correct planting depth. Break up bottom of pit to 150 mm deep and scarify the sides of the pit with a fork.

#### Tree pit in grass or shrub areas size and Construction

Pits shall be 600 mm wider than the diameter of the rootball with a minimum size of 900 x 900 mm. Minimum depth to be 750 mm. Where necessary the depth shall be increased to accommodate the depth of the rootball and to obtain the correct planting level. Break up bottom of pit to 150 mm deep and scarify the sides of the pit with a fork.

# 5.5 Landscape - General Planting

## INDICATIVE PLANT LIST

### TREES

(12 - 14cm girth, Rootball)

- Acer campestre 'Streetwise'
- Pyrus calleryana 'Chanticleer'
- Quercus robur 'Fastigiata'



### BUFFER PLANTING

(Tree and shrub mix to be set out on a 1.5m grid with staggered rows) 60-80cm, Bareroot.

- Acer campestre
- Cornus sanguinea
- Corylus avellana
- Crataegus monogyna



### SHRUBS

(Planted as single specimens or in single specie groups of 3-5, intermittently spaced through groundcover) 3ltr Container

- Choyisya 'Aztec Pearl'
- Choyisya ternata 'Sundance'
- Cornus alba 'Sibirica Variegata'
- Hebe 'Red Edge'
- Lavandula angustifolia 'Hidcote'
- Spirea japonica 'Candlelight'
- Spirea japonica 'Firelight'



### GROUNDCOVER

(Planted in single species drifts of between 5 and 17) 2ltr Container

- Ceanothus 'Blue Mound'
- Geranium macrorrhizum 'Ingwersen's Var.'
- Vinca minor 'Bowles Var.'



**ALL IMAGES ARE PROVIDED FOR INDICATIVE PURPOSES ONLY. EXACT PLANT SPECIES SUBJECT TO DETAILED DESIGN.**







# Access and Movement

The Russell & Strathmore Schools  
Design & Access Statement

06

# 06. Access and Movement

06

## Introduction

This section refers to the many aspects of transit of users within and around the school. Primarily it relates to pedestrians, vehicles, cyclists and emergency access and egress for vehicles and people as well as to issues regarding safety and security.

External landscaped areas, to where the natural contours of the site create level changes into the building; will be addressed with ramped access points or softly sloping landscaped areas. Best practice guidance has been referred to in developing these proposals:

- The Disability Discrimination Act 2005
- DfE Area Guidelines
- BS 8300:2001 'Design of buildings and their approaches to meet the needs of disabled people. 'Code of Practice'.
- The Building Regulations Approved Document M: Access and facilities for disabled people. 1999
- Building Bulletin 91
- Building Bulletin 94

## Pedestrians

There are two pedestrian points to The Russell & Strathmore School sites.

The main school pedestrian entrance for pupils is located on Petersham Road, to the south of the vehicular access point.

A second pedestrian access is located on the south side of the site on Meadlands Drive.

## Vehicular Access

The main vehicular access for the site is from Petersham Road, where vehicles enter and exit the school car park from a single access/ egress point. Vehicular access for private motor vehicles and emergency service vehicles (fire tenders and ambulances) is via this main site access.

Access for emergency vehicles (fire tenders and ambulances) only can be gained via the site access from Meadlands Drive.

There is limited on site staff parking only provision. Parking includes designated accessible parking bays (blue badge) which are adjacent to the entrance doors. There is no on site parent or visitor car parking provisions.

There are two allocated on-site bicycle shelters. One is located adjacent to the pedestrian access from Petersham Road. The other is located to the south side of the Strathmore SEN building. Cyclists will be required to dismount upon entering the site.

## Public Transport Accessibility

The Russell and The Strathmore Schools are approximately 1.4 miles from Richmond underground and Overground stations.

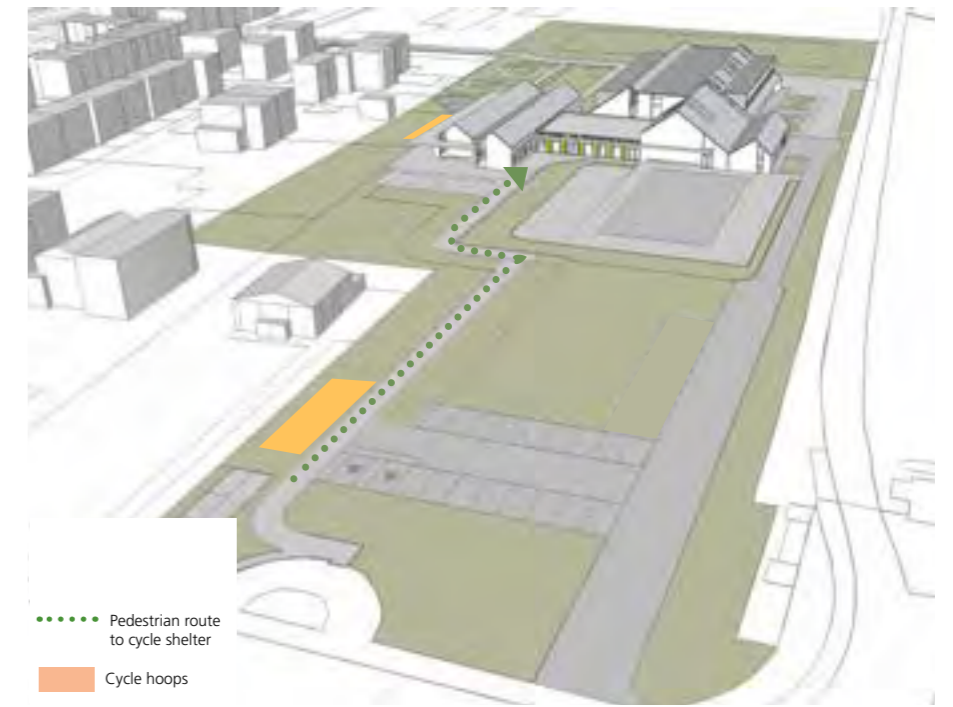
Both schools are accessible by bus with routes 65 and 371, Kingston to Richmond, stopping just next to the Russell School entrance and approximately 2 minutes walk away from the Strathmore School entrance.

Refer to the Transport Statement prepared by WYG, which accompanies the Submission, for further details.

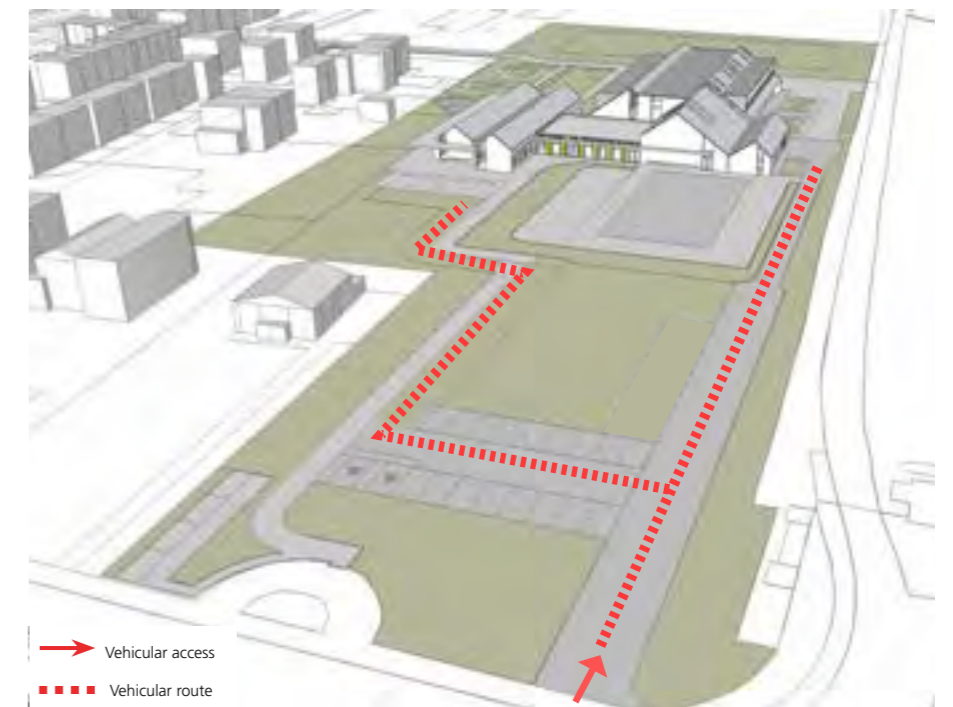
## External Movement

The Disability Discrimination Act 2005 places a duty on Richmond Upon Thames to ensure that the physical features of the built environment are not barriers to public services, education or employment.

Consequently, the design will comply with BS8300, Approved Document M and where applicable accredited service specific guidance.



Cyclist Access



Vehicular Access & Routes

**Car Parking**

The main parking area for the school is located to the North-East of the school site divided from the main pedestrian entrance and comprises a large area with approximately 19 no. car parking spaces, two of which are designated 'blue-badge'. There are a further 13 no. car parking spaces located adjacent to the main car parking area and alongside the vehicular access driveway that runs alongside the northern edge of the KS1 & KS2 Playground.

These additional 13 no. spaces will be paved with a grasscrete type product, The objective is to minimise the extent of hard paving materials and preserve as much of the current quality of the MOL as possible.

Parents/carers dropping-off and collecting their children and visitors to the school will not be permitted to park on site and will be required to use the on street car parking available within the surrounding residential roads.

**Service and Emergency Access**

Service vehicles will access the site through the main vehicular entrance from Petersham Road.

Bin stores are located north of the site, behind the Kitchen.

Access for emergency vehicles (fire tenders and ambulances) only can be gained via the site access from Meadlands Drive.

**Russell School - 'After Hours' Access**

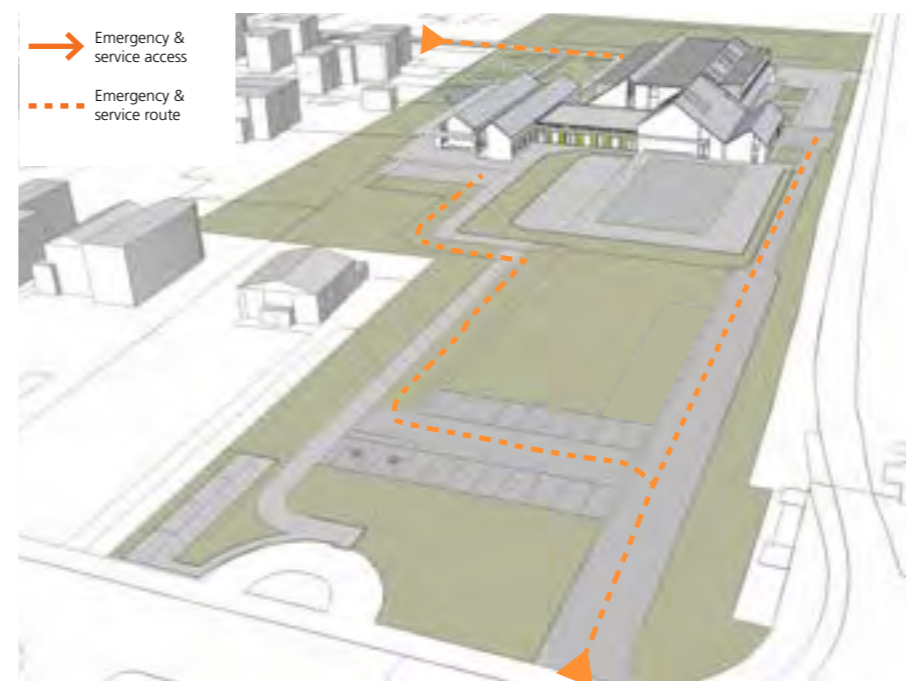
Access to the Main & Small Halls for community and / or after school activities will be from the main entrance to the Russell Primary School. Provisions will be made for locking down the rest of the school to prevent unauthorised access.

**Strathmore School**

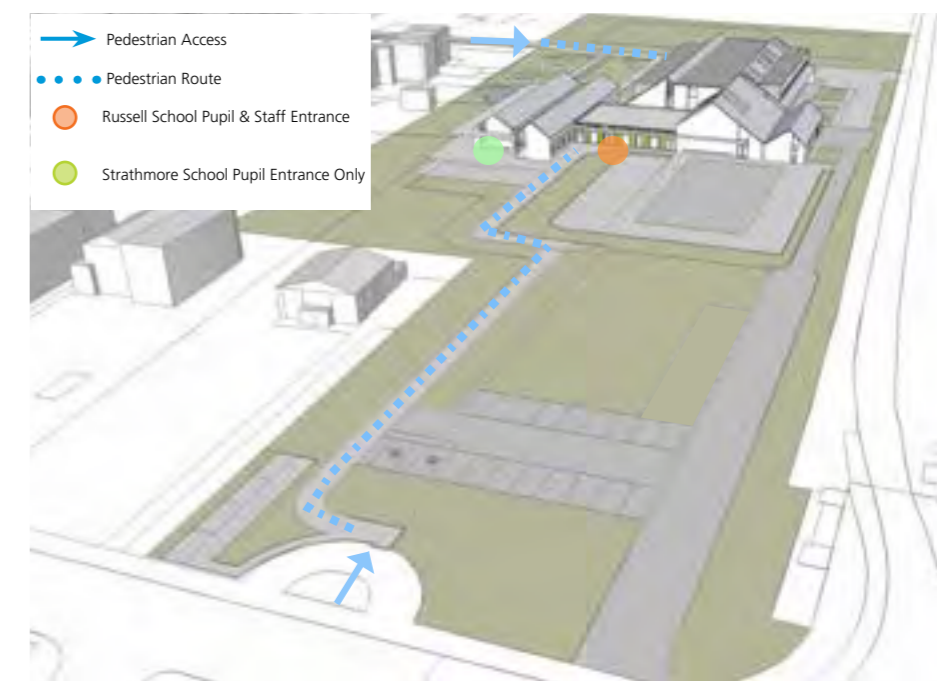
Similarly access to the Strathmore SEN School for community and / or after school activities will be from the pupil entrance to Strathmore School. Provisions will be made for locking down access to the link block rest of the school, to prevent unauthorised access.



Parking Distribution On Site



Emergency & Service Access



Pedestrian Access & Routes to Main Entrances





# Sustainability

The Russell & Strathmore Schools  
Design & Access Statement

07

# 7.1 Sustainable Development

07

## Introduction

The Russell & Strathmore Schools refurbishment and extension project has utilised and will continue to utilise a number of sustainable principles to inform and shape its overall design, from concept through to future design development, construction and site operation. These principles will cover all aspects of sustainability, taking into consideration the environmental and social aspects that relate to the development and surrounding area.

The development proposals are in accordance with current Government policy including planning guidance in respect of sustainability. LBRuT are unable to confirm that a 'Very Good' BREEM rating can be achieved at this stage of the project. LBRuT Planners have advised that a 'Very Good' BREEM rating may be acceptable if there is sufficient justification as to why a BREEM 'Excellent' rating cannot be achieved.

## BREEM

Method Consulting LLP has been appointed to undertake the role of BREEM assessor. The project will be assessed under BREEM New Construction 2014; Design Stage Criteria. London Borough Richmond Upon Thames has confirmed that the scheme should achieve a minimum standard of BREEM Very Good.

For further information refer to the BREEM pre-assessment, prepared by Method Consulting LLP dated December 2014, which accompanies this Planning Application. The BREEM assessment method will act as a control document to ensure that sustainable building techniques and materials are used in order to achieve the relevant credits.

## Energy Strategy

The latest update to Part L of the Building Regulations, which addresses the conservation of fuel and power, was introduced in April 2014 and forms part of the Government's target for all new homes to be zero-carbon by 2016 and new non-domestic buildings by 2019.

Further proposals are in place to amend Part L regularly, with further revisions expected in 2016 and 2019.

All new buildings other than dwellings must meet the requirements

of Part L2A of the 2013 Building Regulations (Issue date April 2014), which now has a target of achieving a 9% reduction in carbon dioxide emissions (aggregate across development types) set against the requirements of 2010.

Furthermore, in so far as projects within Greater London area are concerned area, as outlined in the Sustainable, Design and Construction SPG (published in April 2014), from 6 April 2014 the Mayor of London has applied a 35 % carbon reduction target beyond Part L 2013 of the Building Regulations

This is deemed to be broadly equivalent to the 40 per cent target beyond Part L 2010 of the Building Regulations, as specified in Policy 5.2 of the London Plan for 2013-2016.

In addition, the Atkins Design Team have been advised by LBRuT, through the submission for pre-application planning advice that the above noted 35 % carbon reduction target should include 20% achieved through renewable energies.

An energy assessment has been developed for the proposed building to assess the most sustainable and economically viable method of compliance.

Compliance with Building Regulations Approved Document Part L is best achieved by following the hierarchy of be lean, be clean and be green.

**Be Lean:**  
Reduce energy demand through adopting sustainable design principles.

**Be Clean:**  
Supply energy efficiently, with high performing services.

**Be Green:**  
Use renewable energy to limit reliance on Grid electricity and reduce CO<sub>2</sub>.

## Be Lean

The objective will be to drive down the energy demands by passive measures first. This will include high performing u-values and air permeability.

Solar control methods (such as Solar Control Glazing) will be considered to provide adequate natural daylight levels and uniformity in occupied spaces whilst reducing solar gains and unwanted glare. Blinds will be used to allow occupants to control glare. This will greatly increase comfort levels.

The performance targets being aimed for the fabric of the building are noted below. These will need to be further refined through the detail design stage.

|         |                                |
|---------|--------------------------------|
| Walls   | 0.20 W/m <sup>2</sup> K        |
| Floors  | 0.14 W/m <sup>2</sup> K        |
| Roof    | 0.12 W/m <sup>2</sup> K        |
| Windows | 1.28 - 1.39 W/m <sup>2</sup> K |

Air tightness levels are also of key importance to the project – a figure of 3m<sup>3</sup>/m<sup>2</sup>/h at 50Pa is currently targeted – a 70% improvement in comparison to the limiting value of 10m<sup>3</sup>/m<sup>2</sup>/h at 50Pa given by the Regulations.

## Be Clean

Efficient building services will further reduce the building energy consumption. Optimum energy efficiency is a primary consideration for all items of building services equipment. These will consider and include efficient heating and domestic hot water (DHW) systems, efficient ventilation systems and demand control efficient artificial lighting.

All of these elements will meet or exceed the minimum requirements of the Approved Document Part L and the supporting document Non-Domestic Building Services Compliance Guide 2013 Edition.

Energy efficient light fittings will be specified and controlled by daylight and occupancy presence detection where appropriate. This reduces energy consumption by ensuring that lights are not left on when spaces are not occupied, and lights are not unnecessarily on when the space is adequately lit by daylight alone.

For classroom windows, area zoned daylight dimming will be used around the perimeter of the building, within areas that can be adequately day lit. All compact fluorescent lamps will be fitted with high frequency ballasts.

To maximize the operational efficiency of the heating system, the

# Drawing Submission List

The Russell & Strathmore Schools  
Design & Access Statement

08

# 08. Drawing submission list



## Drawing Submission List

| Drawing name                 | Drawing number |
|------------------------------|----------------|
| Site Location Plan           | ATK4010 - PL-1 |
| Existing Site Plan           | ATK4011 - PL-1 |
| Topographical Survey Plan    | ATK4012 - PL-1 |
| Proposed Ground Floor Plan   | ATK4210 - PL-1 |
| Proposed First Floor Plan    | ATK4211 - PL-1 |
| Proposed Roof Plan           | ATK4212 - PL-1 |
| Proposed Elevations          | ATK4300 - PL-1 |
| Proposed Elevations          | ATK4301 - PL-1 |
| Proposed Elevations          | ATK4302 - PL-1 |
| Proposed 3D Images           | ATK4500 - PL-1 |
| Proposed 3D Images           | ATK4501 - PL-1 |
| Proposed 3D Images           | ATK4502 - PL-1 |
| Proposed 3D Images           | ATK4503 - PL-1 |
| External_General Arrangement | LA001 - PL-1   |
| Access & Circulation Plan    | LA002 - PL-1   |
| Fencing Plan                 | LA003 - PL-1   |

## Document Submission List

| Document name               | Drawing number |
|-----------------------------|----------------|
| Design and Access Statement | ATK4600 - PL-1 |
|                             |                |
|                             |                |
|                             |                |

# Appendices

The Russell & Strathmore Schools  
Design & Access Statement



A



# Appendix A.1

Drawings - Architecture  
The Russell & Strathmore Schools  
Design & Access Statement

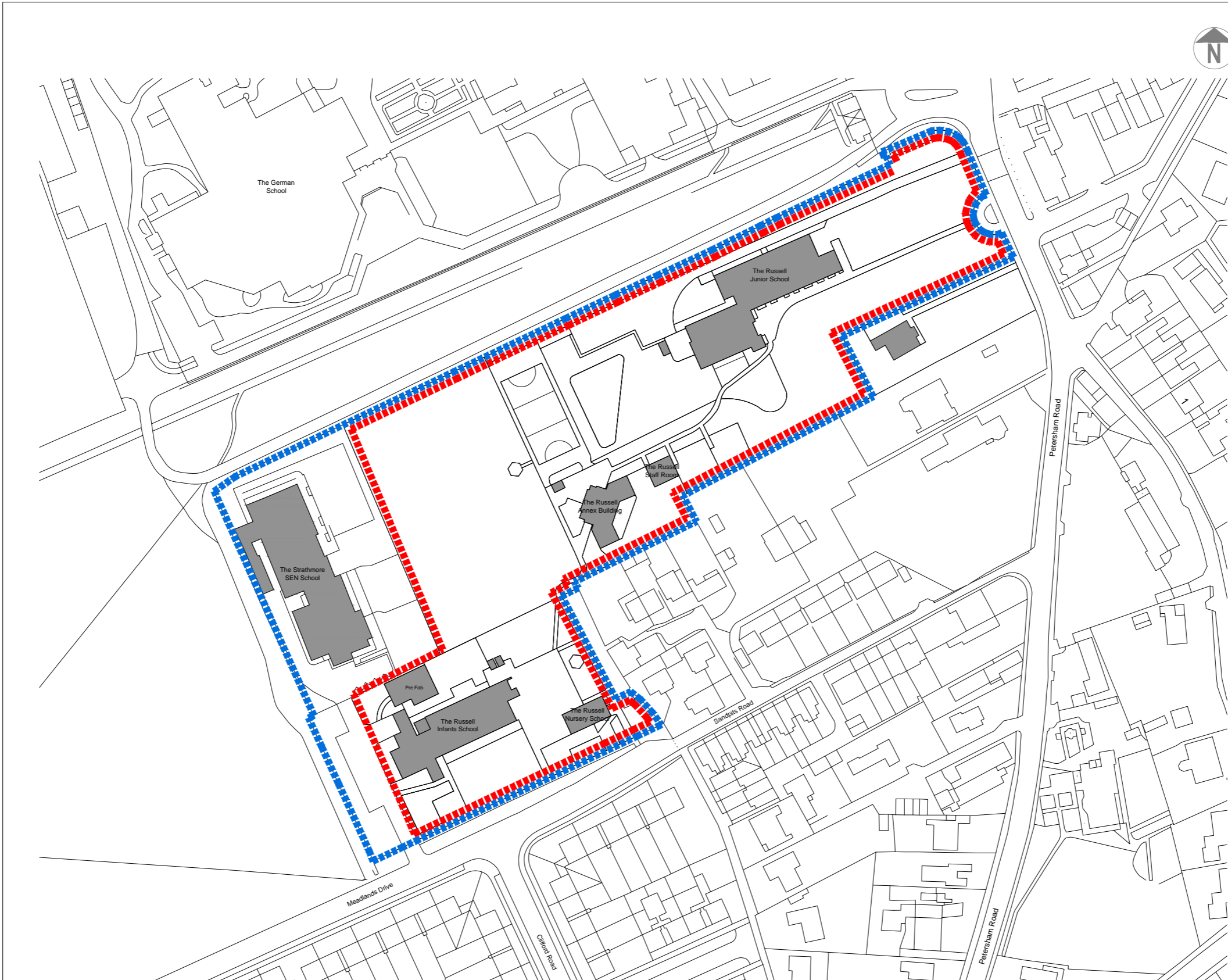


A.1

# A1. Drawings - Architecture



Millimetres  
100  
10  
0



**A** Site Location Plan  
**A4010** 1:1250

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**  
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

|                            |
|----------------------------|
| CONSTRUCTION               |
| MAINTENANCE/CLEANING       |
| DECOMMISSIONING/DEMOLITION |

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

- Denotes Extent of Adjacent Land Owned by the Applicant
- Denotes Application Site Boundary

| PL-2 | 06/03/2016 | SITE BOUNDARY RE-ALIGNED TO INCLUDE RUSSELL INFANTS SCHOOL | DV | JH    | RC    |
|------|------------|--|----|-------|-------|
| PL-1 | 28/11/2014 | ISSUED FOR PLANNING  | DV | JH    | RC    |
| Rev  | Date       | Description  | By | CHK'd | App'd |

Drawing Status: **For Planning**      **SO**

**ATKINS**      4th Floor, The Octagon  
27 Middleborough  
Colchester, Essex  
England  
CO1 1TG  
Tel: +44 (0)1206 732000  
Fax: +44 (0)1206 732020  
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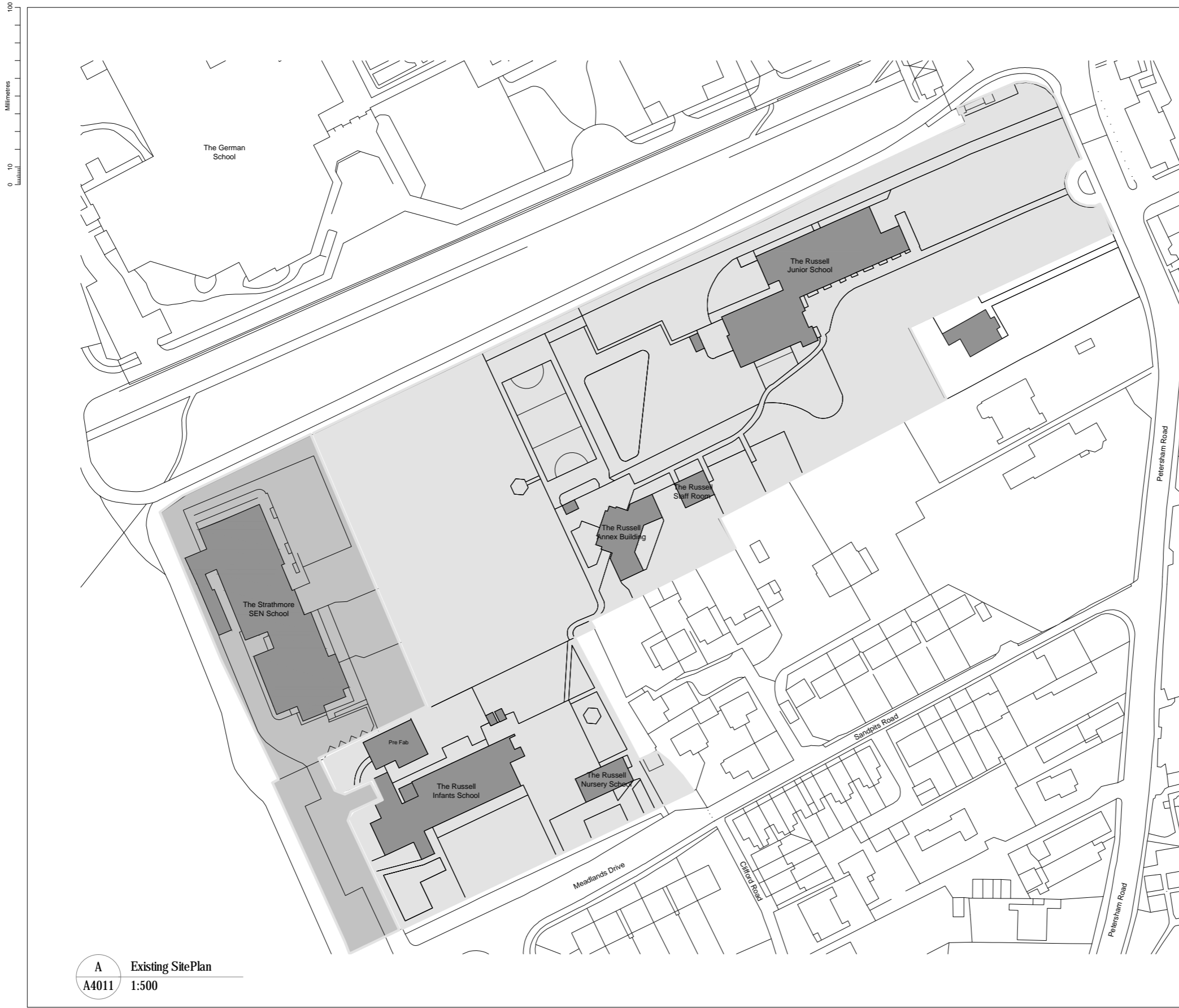


Project Title  
**THE RUSSELL AND STRATHMORE SCHOOLS**

Drawing Title  
**SITE LOCATION PLAN**

|                             |          |        |         |            |
|-----------------------------|----------|--------|---------|------------|
| Scale                       | Designed | Drawn  | Checked | Authorised |
| 1:1250                      | JH       | DV     | JH      | RC         |
| Original Size               | Date     | Date   | Date    | Date       |
| A3                          | NOV 14   | NOV 14 | NOV 14  | NOV 14     |
| Drawing Number              | Revision |        |         |            |
| 5127940-ATK-Z1-00-DR-A-4010 | PL-2     |        |         |            |





**A** Existing Site Plan  
**A4011** 1:500



**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**  
 In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

**LEGEND:**

- [Light Grey Box] SITE BOUNDARY THE RUSSELL SCHOOL
- [Dark Grey Box] SITE BOUNDARY THE STRATHMORE SCHOOL

| Rev. | Date       | Description         | By | CHK'd | App'd |
|------|------------|---------------------|----|-------|-------|
| PL-1 | 28/11/2014 | ISSUED FOR PLANNING |    | DV    | JH RC |

Drawing Status: **For Planning**      Suitability: **SO**

**ATKINS** Woodcote Grove, Ashley Road, Epsom, Surrey KT18 5BW, England  
 Tel: +44 (0)1372 726140  
 Fax: +44 (0)1372 740255  
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Client: **LONDON BOROUGH OF RICHMOND UPON THAMES**

Project Title: **THE RUSSELL & STRATHMORE SCHOOLS**

Drawing Title: **EXISTING SITE PLAN**

| Scale         | Designed | Drawn  | Checked | Authorised |
|---------------|----------|--------|---------|------------|
| 1:500@A1      | JH       | DV     | JH      | RC         |
| Original Size | Date     | Date   | Date    | Date       |
| A1            | NOV 14   | NOV 14 | NOV 14  | NOV 14     |

Drawing Number: **5127940-ATK-Z1-00-DR-A-4011**      Revision: **PL-1**

# A1. Drawings - Architecture

A1



### SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

| Rev | Date | Description | By | CHK'd | App'd |
|-----|------|-------------|----|-------|-------|
|     |      |             |    |       |       |
|     |      |             |    |       |       |
|     |      |             |    |       |       |
|     |      |             |    |       |       |
|     |      |             |    |       |       |

|      |           |                     |    |    |    |
|------|-----------|---------------------|----|----|----|
| PL-1 | 2811/0114 | ISSUED FOR PLANNING | DV | JH | RC |
|------|-----------|---------------------|----|----|----|

**For Planning** **S0**

**ATKINS** Woodcote Grove,  
Ashley Road,  
Epsom,  
Surrey KT18 5BW  
England  
Tel: +44 (0)1372 726140  
Fax: +44 (0)1372 740055  
www.atkinsglobal.com

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Project Title  
**THE RUSSELL & STRATHMORE SCHOOLS**

Drawing Title  
**TOPOGRAPHICAL SURVEY PLAN**

| Scale                       | Designed | Drawn  | Checked | Authorised |
|-----------------------------|----------|--------|---------|------------|
| 1:500@A1                    | JH       | DV     | JH      | RC         |
| Original Size               | Date     | Date   | Date    | Date       |
| A1                          | NOV 14   | NOV 14 | NOV 14  | NOV 14     |
| Drawing Number              | Revision |        |         |            |
| 5127940-ATK-Z1-00-DR-A-4012 | PL-1     |        |         |            |

Millimetres  
0 10 100



Ground Floor Plan\_GIA 1928m<sup>2</sup>  
 First Floor Plan\_GIA 648.7m<sup>2</sup>  
 -----  
 TOTAL GIA 2576.7m<sup>2</sup>

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

- Classrooms
- Halls, Library, ICT, Group Rooms
- Reception, Staff & Offices
- Storages, Cloakrooms, WCs
- Circulation

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| PL-1 | 11/2014 | Issued for Planning | DV | JH | RC |
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| Rev. | Date | Description | By | CHK | APP |
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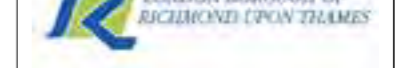
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| Drawing Status | <b>For Planning</b> | Suitability |
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Client



Project Title

**THE RUSSELL & STRATHMORE SCHOOLS**

Drawing Title

**PROPOSED GROUND FLOOR PLAN**

Scale

1:150@A1

| Designed | Drawn | Checked | Authorised |
|----------|-------|---------|------------|
| JH       | DV    | JH      | RC         |

| Original Size | Date   | Date   | Date   | Date   |
|---------------|--------|--------|--------|--------|
| A1            | NOV 14 | NOV 14 | NOV 14 | NOV 14 |

| Drawing Number              | Revision |
|-----------------------------|----------|
| 5127940-ATK-Z1-GF-DR-A-4210 | PL-1     |

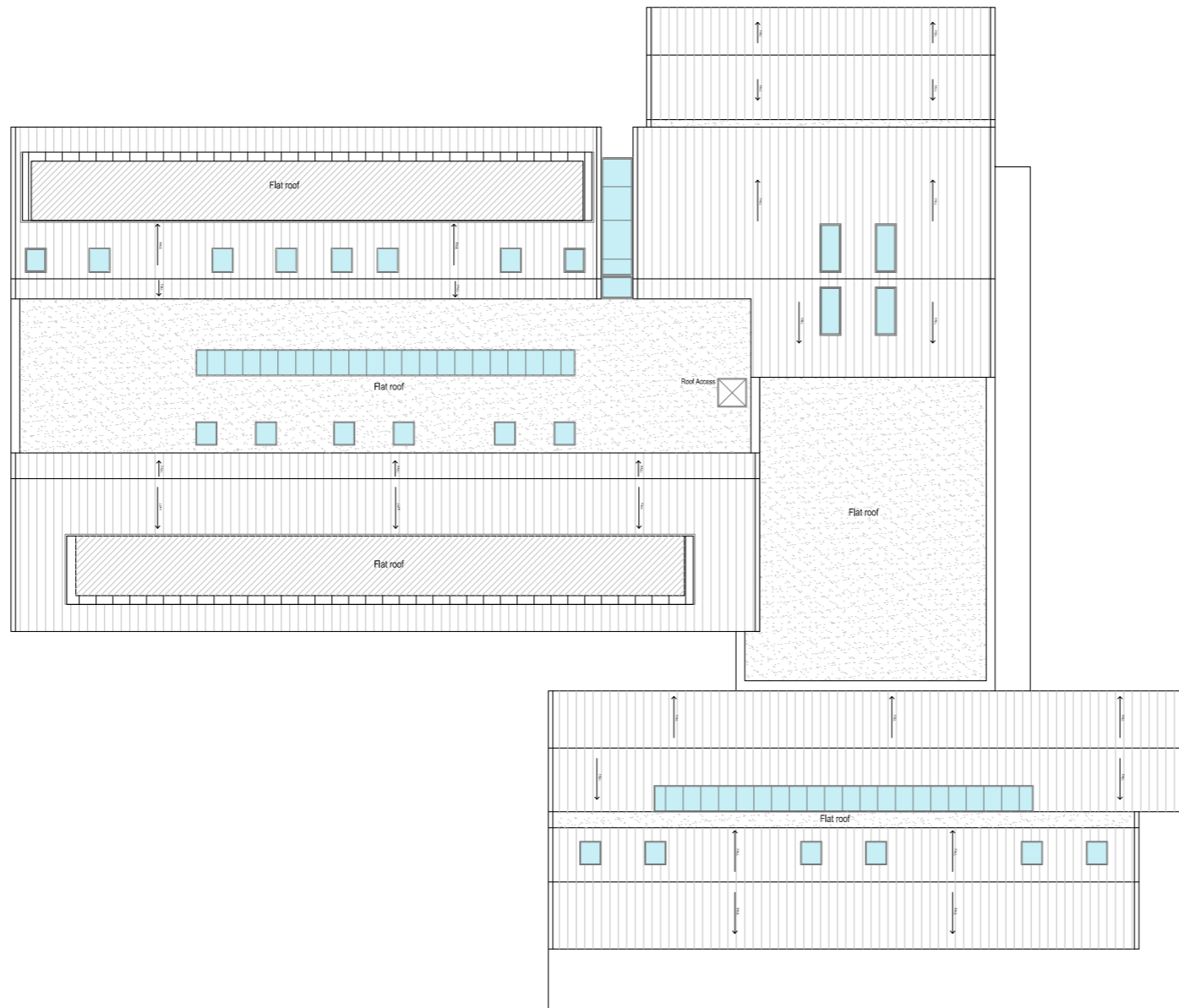
Scale

| Original Size | Date   | Date   | Date   | Date   |
|---------------|--------|--------|--------|--------|
| A1            | NOV 14 | NOV 14 | NOV 14 | NOV 14 |

| Drawing Number              | Revision |
|-----------------------------|----------|
| 5127940-ATK-Z1-GF-DR-A-4210 | PL-1     |



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**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

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| PL-1 | 11/29/14 | Issued for Planning |  | DV | JH | RC |
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| Rev. | Date | Description | By | CHK'd | App'd |
|------|------|-------------|----|-------|-------|
|------|------|-------------|----|-------|-------|

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| Drawing Status | <b>For Planning</b> | Suitability |
|----------------|---------------------|-------------|

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Project Title  
**THE RUSSELL & STRATHMORE SCHOOLS**

Drawing Title  
**PROPOSED ROOF PLAN**

| Scale         | Designed | Drawn  | Checked | Authorised |
|---------------|----------|--------|---------|------------|
| 1:150@A1      | JH       | DV     | JH      | RC         |
| Original Size | Date     | Date   | Date    | Date       |
| A1            | NOV 14   | NOV 14 | NOV 14  | NOV 14     |

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| Drawing Number              | Revision |
| 5127940-ATK-Z1-RP-DR-A-4212 | PL-1     |

# A1. Drawings - Architecture



**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**  
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

**Key**

- 01. Slate coloured pitched roofing
- 02. Clay facing brickwork
- 03. Velux type rooflights
- 04. PPC aluminium double glazed windows and curtain walling
- 05. PPC aluminium louvres with integrated louved doors
- 06. Natural zinc effect panels with appropriate jointing
- 07. Ceramic backed double glazed coloured spandrel panels
- 08. Natural zinc effect cappings
- 09. Natural zinc effect projecting canopy
- 10. Coloured 'Trespa' panels
- 11. Building signage to comprise stainless steel individual 3d built up lettering

| Rev. | Date     | Description         | By | CHK | App'd |
|------|----------|---------------------|----|-----|-------|
| PL-1 | 11/28/14 | Issued for Planning | DV | JH  | RC    |

Drawing Status: **For Planning**      Suitability:

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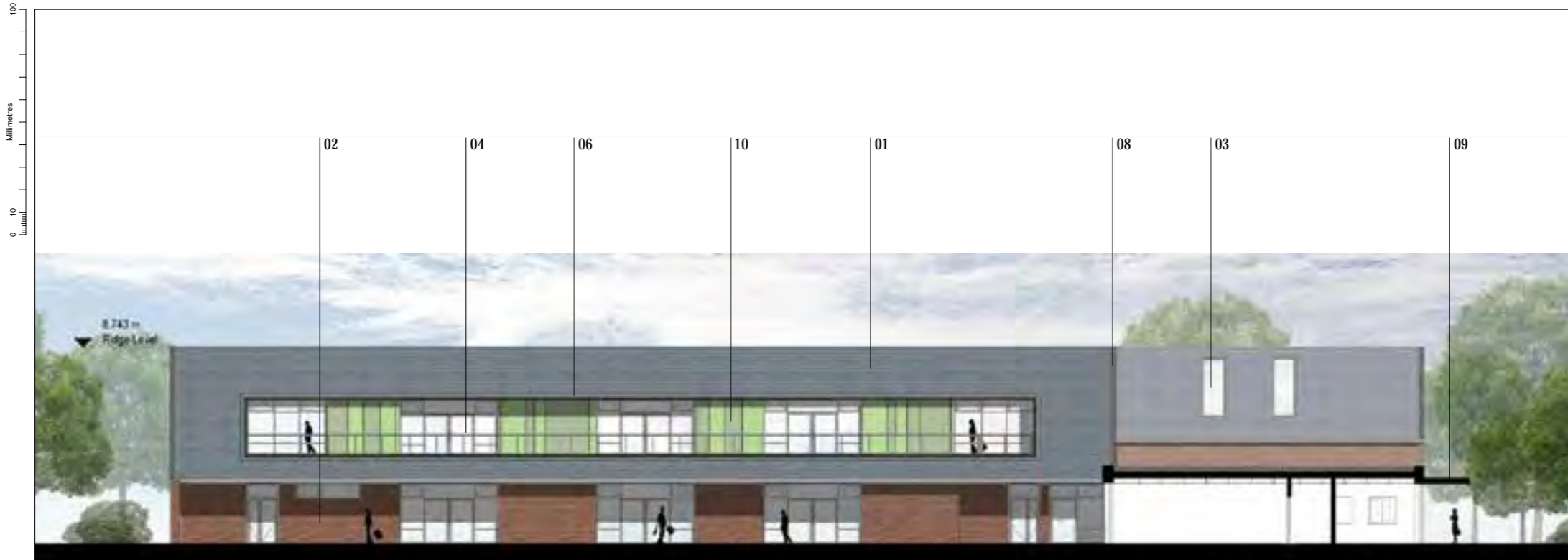
Project Title: **THE RUSSELL & STRATHMORE SCHOOLS**

Drawing Title: **PROPOSED ELEVATIONS & SECTIONS**

| Scale    | Designed | Drawn | Checked | Authorised |
|----------|----------|-------|---------|------------|
| 1:100@A1 | JH       | DV    | JH      | RC         |

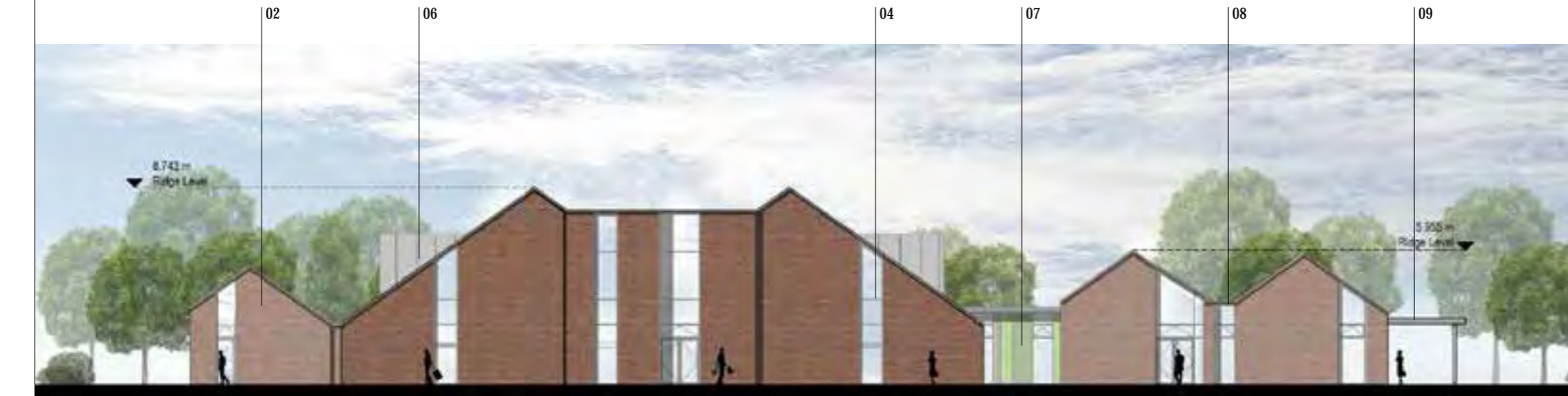
| Original Size | Date   | Date   | Date   | Date   |
|---------------|--------|--------|--------|--------|
| A1            | NOV 14 | NOV 14 | NOV 14 | NOV 14 |

Drawing Number: **5127940-ATK-Z1-EL-DR-A-4300**      Revision: **PL-1**



South Elevation

Section\_Administration Area



West Elevation

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

**Key**

- 01. Slate coloured pitched roofing
- 02. Clay facing brickwork
- 03. Velux type rooflights
- 04. PPC aluminium double glazed windows and curtain walling
- 05. PPC aluminium louvres with integrated louved doors
- 06. Natural zinc effect panels with appropriate jointing
- 07. Ceramic backed double glazed coloured spandrel panels
- 08. Natural zinc effect cappings
- 09. Natural zinc effect projecting canopy
- 10. Coloured 'Trespa' panels
- 11. Building signage to comprise stainless steel individual 3d built up lettering

| PL-1 | 11/28/14 | Issued for Planning | DV | JH   | RC    |
|------|----------|---------------------|----|------|-------|
| Rev. | Date     | Description         | By | CHKD | App'd |

Drawing Status: **For Planning** Suitability

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Project Title: **THE RUSSELL & STRATHMORE SCHOOLS**

**PROPOSED ELEVATIONS & SECTIONS**

| Scale         | Designed | Drawn  | Checked | Authorised |
|---------------|----------|--------|---------|------------|
| 1:100@A1      | JH       | DV     | JH      | RC         |
| Original Size | Date     | Date   | Date    | Date       |
| A1            | NOV 14   | NOV 14 | NOV 14  | NOV 14     |

Drawing Number: **5127940-ATK-Z1-EL-DR-A-4301** Revision: **PL-1**

# A1. Drawings - Architecture

A1



Typical Section



South Elevation

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**  
 In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

- Key**
- 01. Slate coloured pitched roofing
  - 02. Clay facing brickwork
  - 03. Velux type rooflights
  - 04. PPC aluminium double glazed windows and curtain walling
  - 05. PPC aluminium louvres with integrated louved doors
  - 06. Natural zinc effect panels with appropriate jointing
  - 07. Ceramic backed double glazed coloured spandrel panels
  - 08. Natural zinc effect cappings
  - 09. Natural zinc effect projecting canopy
  - 10. Coloured 'Trespa' panels
  - 11. Building signage to comprise stainless steel individual 3d built up lettering

| Rev. | Date     | Description         | By | CHK'd | App'd |
|------|----------|---------------------|----|-------|-------|
| PL-1 | 11/28/14 | Issued for Planning | DV | JH    | RC    |

Drawing Status: **For Planning**

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Project Title: **THE RUSSELL & STRATHMORE SCHOOLS**

















Drawing Title: **PROPOSED ELEVATIONS & SECTION**

| Scale                       | Designed | Drawn  | Checked | Authorised |
|-----------------------------|----------|--------|---------|------------|
| 1:100@A1                    | JH       | DV     | JH      | RC         |
| Original Size               | Date     | Date   | Date    | Date       |
| A1                          | NOV 14   | NOV 14 | NOV 14  | NOV 14     |
| Drawing Number              | Revision |        |         |            |
| 5127940-ATK-Z1-EL-DR-A-4302 | PL-1     |        |         |            |





**KEY:**

-  Grass Areas
-  Buffer/ Ornamental Planting
-  New Tree Planting
-  Existing Tree Planting
-  Learning Spaces
-  Plaza
-  Paths
-  Car Park (Tarmac & Grasscrete)
-  Grasscrete
-  Playground (Porous Macadam)
-  Adventure Play Area
-  Chipped Bark Path
-  Quiet Playground / Teaching Spaces
-  Covered External Area
-  Existing Buildings
-  Open Space (Configuration TBC)



|      |                  |                |      |     |               |  |          |                                |  |                      |                 |                  |
|------|------------------|----------------|------|-----|---------------|--|----------|--------------------------------|--|----------------------|-----------------|------------------|
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|      |                  |                |      |     |               | RUSSELL AND STRATHMORE SCHOOLS         |          | Sheet Size<br><b>A1</b>        | Original Scale<br><b>1:500</b>             | Designed/Drawn<br>NP | Checked<br>JH   | Authorized<br>NM |
|      |                  |                |      |     |               |  |          | Status<br>P                    | Drawing Number<br><b>5127940-COL-LA001</b> |                      | Rev<br><b>B</b> |                  |
| P    | PLANNING         | 23.09.14       | NM   | A   | SCHEME UPDATE | NP                                     | 04.03.15 | JH                             | NM   |                      |                 |                  |
|      |                  |                |      |     |               |  |          |                                |  |                      |                 |                  |
| Stat | Purpose of Issue | Date           | Auth | Rev | Description   | By                                     | Date     | Chk'd                          | Auth                                       |                      |                 |                  |

# A1. Drawings - Architecture

A1

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View of Main Entrance from Playground

### SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

#### CONSTRUCTION

#### MAINTENANCE/CLEANING

#### DECOMMISSIONING/DEMOLITION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

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| PL-1 | 11/28/14 | Issued for Planning | DV | JH    | RC    |
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| Rev  | Date     | Description         | By | CHK'd | App'd |

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Client  
**THE RUSSELL & STRATHMORE SCHOOLS**

Drawing Title  
**PROPOSED 3D VIEWS  
Sheet 1 of 4**

|                             |          |        |         |            |
|-----------------------------|----------|--------|---------|------------|
| Scale                       | Designed | Drawn  | Checked | Authorised |
| NTS                         | JH       | DV     | JH      | RC         |
| Original Size               | Date     | Date   | Date    | Date       |
| A1                          | NOV 14   | NOV 14 | NOV 14  | NOV 14     |
| Drawing Number              | Revision |        |         |            |
| 5127940-ATK-Z1-3D-DR-A-4500 | PL-1     |        |         |            |

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View of Main Entrance of Strathmore SEN School

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| <p><b>SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION</b></p> <p>In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:</p> |  |  |  |  |
| <p>CONSTRUCTION</p>   |  |  |  |  |
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| <p>DECOMMISSIONING/DEMOLITION</p>   |  |  |  |  |
| <p>It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement</p>   |  |  |  |  |

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| PL-1   | 11/28/14 | Issued for Planning | DV                                       | JH         | RC                    |
| Rev.   | Date     | Description         | By                                       | CM         | App'd                 |
| <p>Drawing Status: <b>For Planning</b></p>   |          |                     |  |            |                       |
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| <p>Client: <b>LONDON BOROUGHS OF RICHMOND UPON THAMES</b></p>  |          |                     |  |            |                       |
| <p>Project Title: <b>THE RUSSELL &amp; STRATHMORE SCHOOLS</b></p>  |          |                     |  |            |                       |
| <p>Drawing Title: <b>PROPOSED 3D VIEWS<br/>Sheet 2 of 4</b></p>  |          |                     |  |            |                       |
| Scale  | Designed | Drawn               | Checked                                  | Authorised |                       |
| NTS  | JH       | DV                  | JH                                       | RC         |                       |
| Original Size  | Date     | Date                | Date                                     | Date       | Date                  |
| A1   | NOV 14   | NOV 14              | NOV 14                                   | NOV 14     | NOV 14                |
| <p>Drawing Number: 5127940-ATK-Z1-3D-DR-A-4501</p>   |          |                     |  |            | <p>Revision: PL-1</p> |

# A1. Drawings - Architecture

A1

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Millimetres  
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View of Russell and Strathmore Schools from the South-West

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| <b>SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION</b><br>In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following: |
| <b>CONSTRUCTION</b>  |
|  |
| <b>MAINTENANCE/CLEANING</b>  |
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| <b>DECOMMISSIONING/DEMOLITION</b>  |
|  |
| It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement   |

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| PL-1                              | 11/28/14 | Issued for Planning   | DV | JH    | RC          |
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| Rev.                              | Date     | Description   | By | CHK'd | App'd       |
|                                   |          |   |    |       |             |
| Drawing Status                    |          | <b>For Planning</b>   |    |       | Suitability |
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Client  
**THE RUSSELL & STRATHMORE SCHOOLS**

Drawing Title  
**PROPOSED 3D VIEWS  
Sheet 3 of 4**

|                             |          |        |         |            |
|-----------------------------|----------|--------|---------|------------|
| Scale                       | Designed | Drawn  | Checked | Authorised |
| NTS                         | JH       | DV     | JH      | RC         |
| Original Size               | Date     | Date   | Date    | Date       |
| A1                          | NOV 14   | NOV 14 | NOV 14  | NOV 14     |
| Drawing Number              | Revision |        |         |            |
| 5127940-ATK-Z1-3D-DR-A-4502 | PL-1     |        |         |            |

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Millimetres  
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View of Russell Primary School from the North-West

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

MAINTENANCE/CLEANING

DECOMMISSIONING/DEMOLITION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

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| PL-1 | 11/26/14 | Issued for Planning | DV | JH | RC |
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| Rev. | Date | Description | By | CMR | App'd |
|------|------|-------------|----|-----|-------|
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Drawing Status **For Planning** Suitability

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Woodcote Grove,  
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Epsom,  
Surrey KT18 5BW  
England  
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Client  
**R** LONDON BOROUGHS OF  
RICHMOND UPON THAMES

Project Title  
**THE RUSSELL & STRATHMORE SCHOOLS**

Drawing Title  
**PROPOSED 3D VIEWS**  
Sheet 4 of 4

| Scale         | Designed | Drawn  | Checked | Authorised |
|---------------|----------|--------|---------|------------|
| NTS           | JH       | DV     | JH      | RC         |
| Original Size | Date     | Date   | Date    | Date       |
| A1            | NOV 14   | NOV 14 | NOV 14  | NOV 14     |

|                             |          |
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| Drawing Number              | Revision |
| 5127940-ATK-Z1-3D-DR-A-4503 | PL-1     |



# Appendix A.2

















Drawings - Landscape Architecture  
The Russell & Strathmore Schools  
Design & Access Statement



A.2



**KEY:**

-  Grass Areas
-  Buffer/ Ornamental Planting
-  New Tree Planting
-  Existing Tree Planting
-  Learning Spaces
-  Plaza
-  Paths
-  Car Park (Tarmac & Grasscrete)
-  Grasscrete
-  Playground (Porous Macadam)
-  Adventure Play Area
-  Chipped Bark Path
-  Quiet Playground / Teaching Spaces
-  Covered External Area
-  Existing Buildings
-  Open Space (Configuration TBC)



| Stat     | Purpose of Issue | Date     | Auth | Rev | Description   | By | Date     | Chk'd | Auth |
|----------|------------------|----------|------|-----|---------------|----|----------|-------|------|
| PLANNING |                  | 23.09.14 | NM   | A   | SCHEME UPDATE | NP | 04.03.15 | JH    | NM   |
|          |                  |          |      | A   | SCHEME UPDATE | NP | 23.09.14 | JH    | NM   |



|                |  |  |  |            |                |                                |          |            |
|----------------|--|--|--|------------|----------------|--------------------------------|----------|------------|
| Client         |  | LONDON BOROUGH OF RICHMOND-UPON-THAMES |  | Title      |                | GENERAL ARRANGEMENT (EXTERNAL) |          |            |
| Project        |  | RUSSELL AND STRATHMORE SCHOOLS         |  | Sheet Size | Original Scale | Designed/Drawn                 | Checked  | Authorized |
|                |  |  |  | <b>A1</b>  | <b>1:500</b>   | NP                             | JH       | NM         |
| Status         |  | P                                      |  | Date       | Date           | Date                           | Date     | Date       |
|                |  |  |  | 23.09.14   | 23.09.14       | 23.09.14                       | 23.09.14 | 23.09.14   |
| Drawing Number |  | 5127940-COL-LA001                      |  | Rev        |                |                                |          |            |
|                |  |  |  |            | B              |                                |          |            |







**KEY:**

- 2.03m Weldmesh (Green) + Solid Panels
- 2.03m Weldmesh (Green)
- 1.8m Weldmesh (Green)
- 1.2m Timber Picket
- Existing boundary fencing retained
- Gate (Single leaf)  
(Width typically 1.2m wide)
- Gate (Double leaf)  
(Width typically 2m -3.5m wide)
- Gate (Existing retained)

**Note:**

- Intercom and electric control system to be fitted to existing retained gates

| Stat | Purpose of Issue | Date | Auth | Rev | Description | By | Date | Chk'd | Auth |
|------|------------------|------|------|-----|-------------|----|------|-------|------|
|      |                  |      |      |     |             |    |      |       |      |
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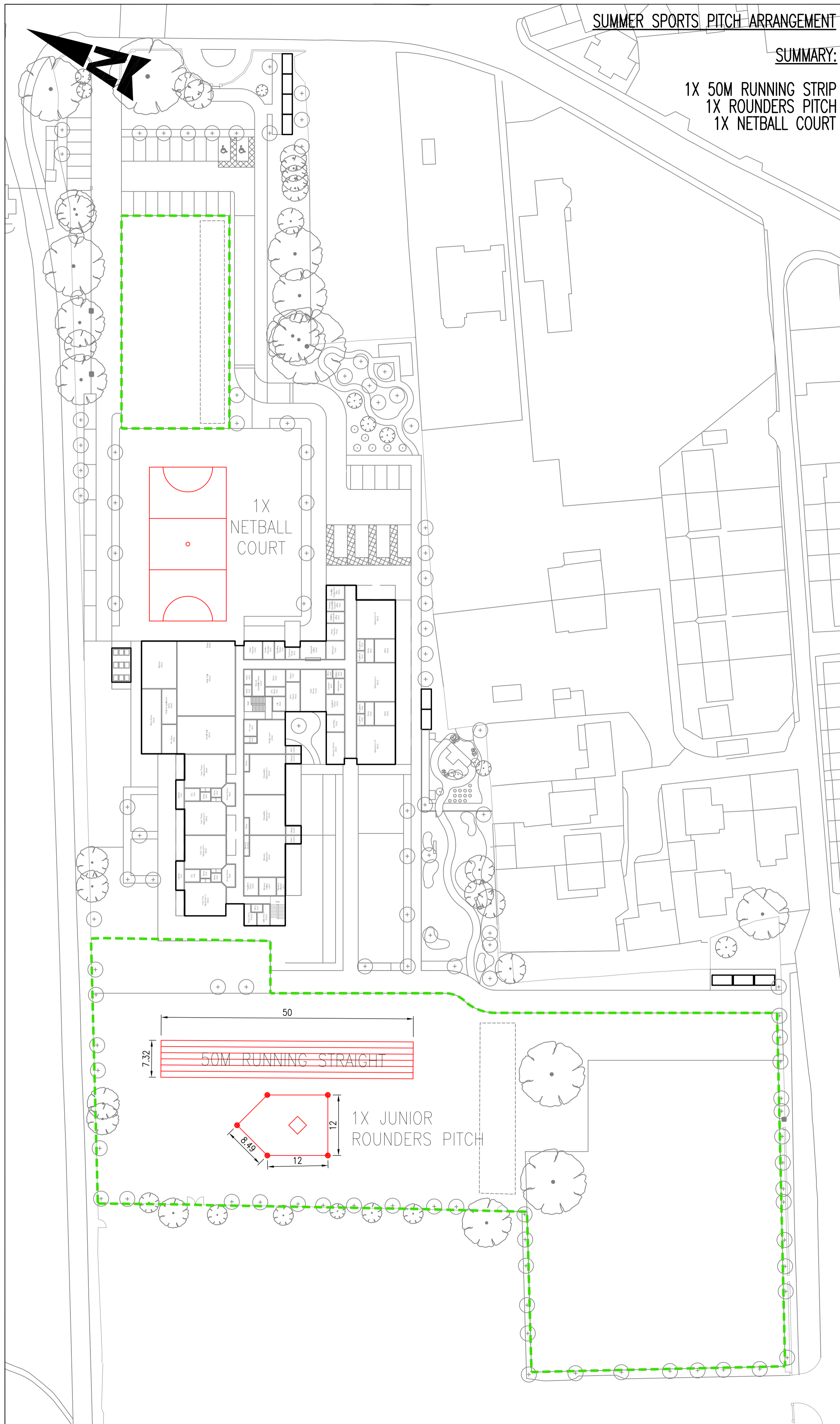


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|---|--|--|---|--------------------------------|---|
| Client<br><b>LONDON BOROUGH OF RICHMOND-UPON-THAMES</b> |  |  | Title<br><b>FENCING (EXTERNAL)</b>              |                                |   |
| Project<br><b>RUSSELL AND STRATHMORE SCHOOLS</b>        |  |  | Sheet Size<br><b>A1</b>                         | Original Scale<br><b>1:500</b> | Designed/Drawn<br><b>NP</b><br>Date <b>23.09.14</b> |
| Status<br><b>P</b>                                      | Drawing Number<br><b>5127940-COL-LA003</b> | Checked<br><b>JH</b><br>Date <b>23.09.14</b> | Authorized<br><b>NM</b><br>Date <b>23.09.14</b> | Rev<br><b>B</b>                |   |

SUMMER SPORTS PITCH ARRANGEMENT

SUMMARY:

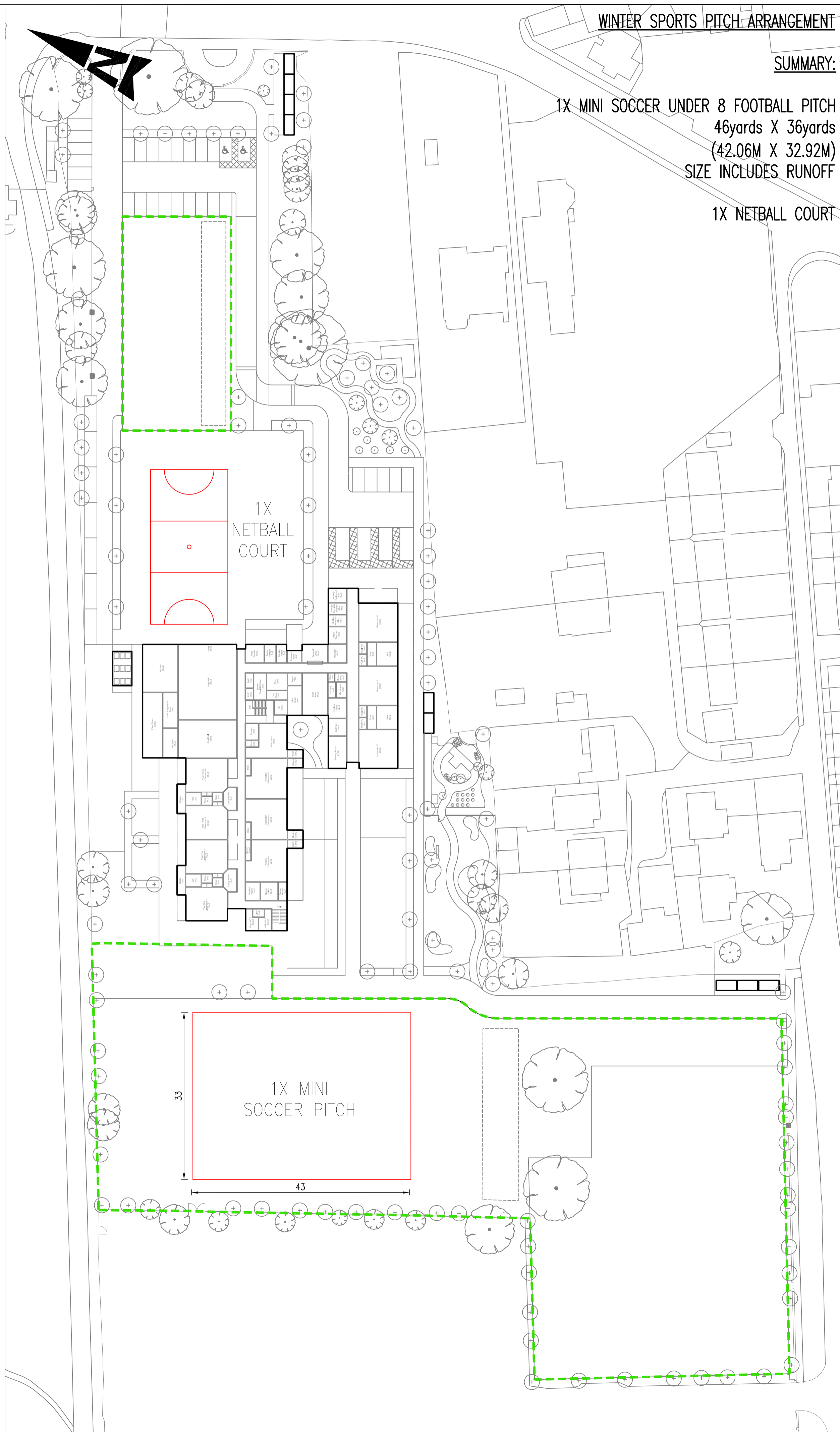
1X 50M RUNNING STRIP  
1X ROUNDERS PITCH  
1X NETBALL COURT



WINTER SPORTS PITCH ARRANGEMENT

SUMMARY:

1X MINI SOCCER UNDER 8 FOOTBALL PITCH  
46yards X 36yards  
(42.06M X 32.92M)  
SIZE INCLUDES RUNOFF  
1X NETBALL COURT



KEY:

- PLAYING FIELD/ OPEN SPACE BOUNDARY (TOTAL AREA: 8,411M<sup>2</sup>)
- PITCH/ COURT/ TRACK OUTLINE

NOTE:  
DIMENSIONS ARE BASED ON EXISTING PROVISIONS  
AND SPORT ENGLAND GUIDANCE DOCUMENTATION

| Stat | Purpose of Issue | Date        | Auth  |       |      |
|------|------------------|-------------|-------|-------|------|
| P    | PLANNING         | 23.09.14    | NM    |       |      |
| B    | SCHEME UPDATE    | NP 23.09.14 | JH NM |       |      |
| A    | ORIGINAL         | NP 23.09.14 | JH NM |       |      |
| Rev  | Description      | By          | Date  | Chk'd | Auth |

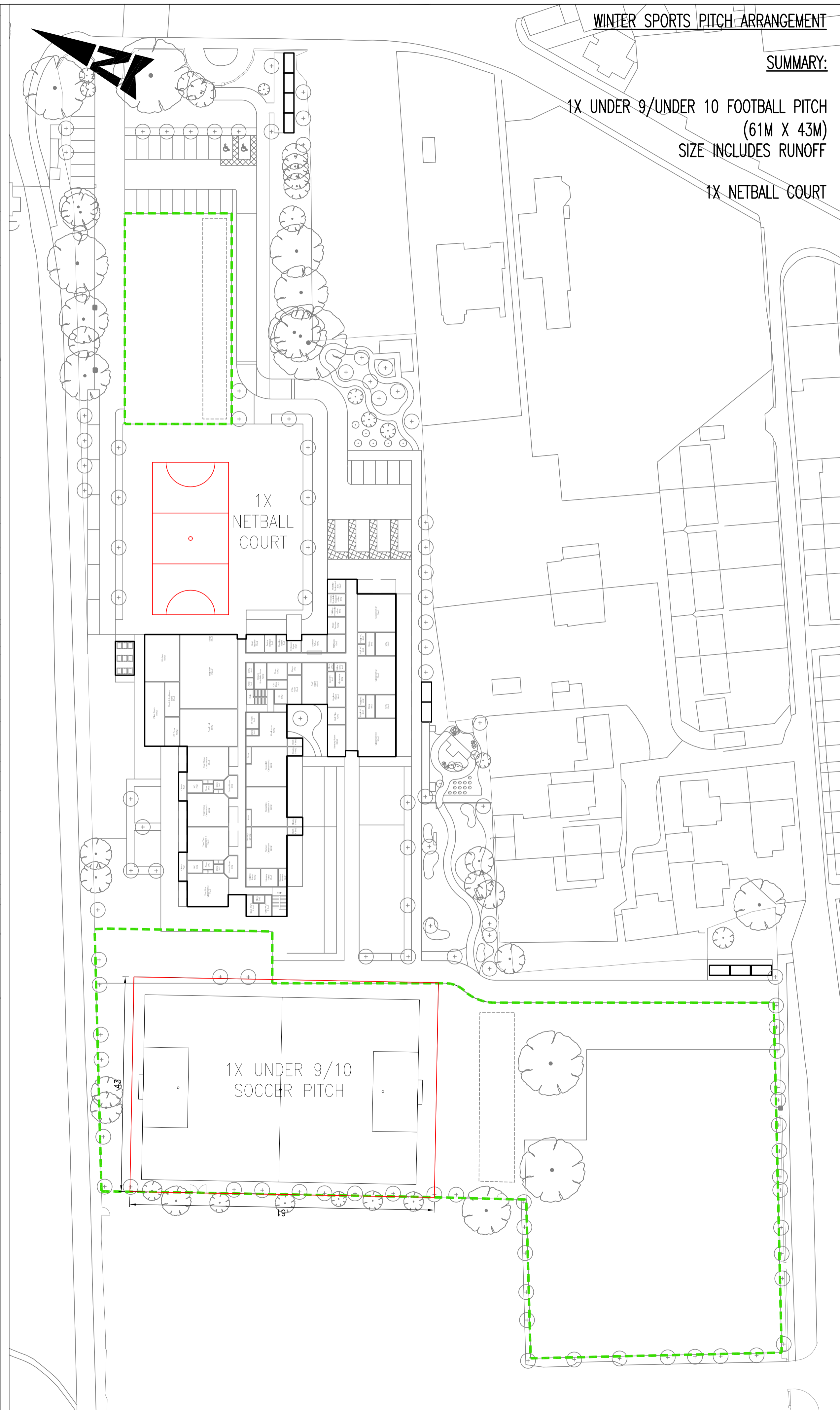
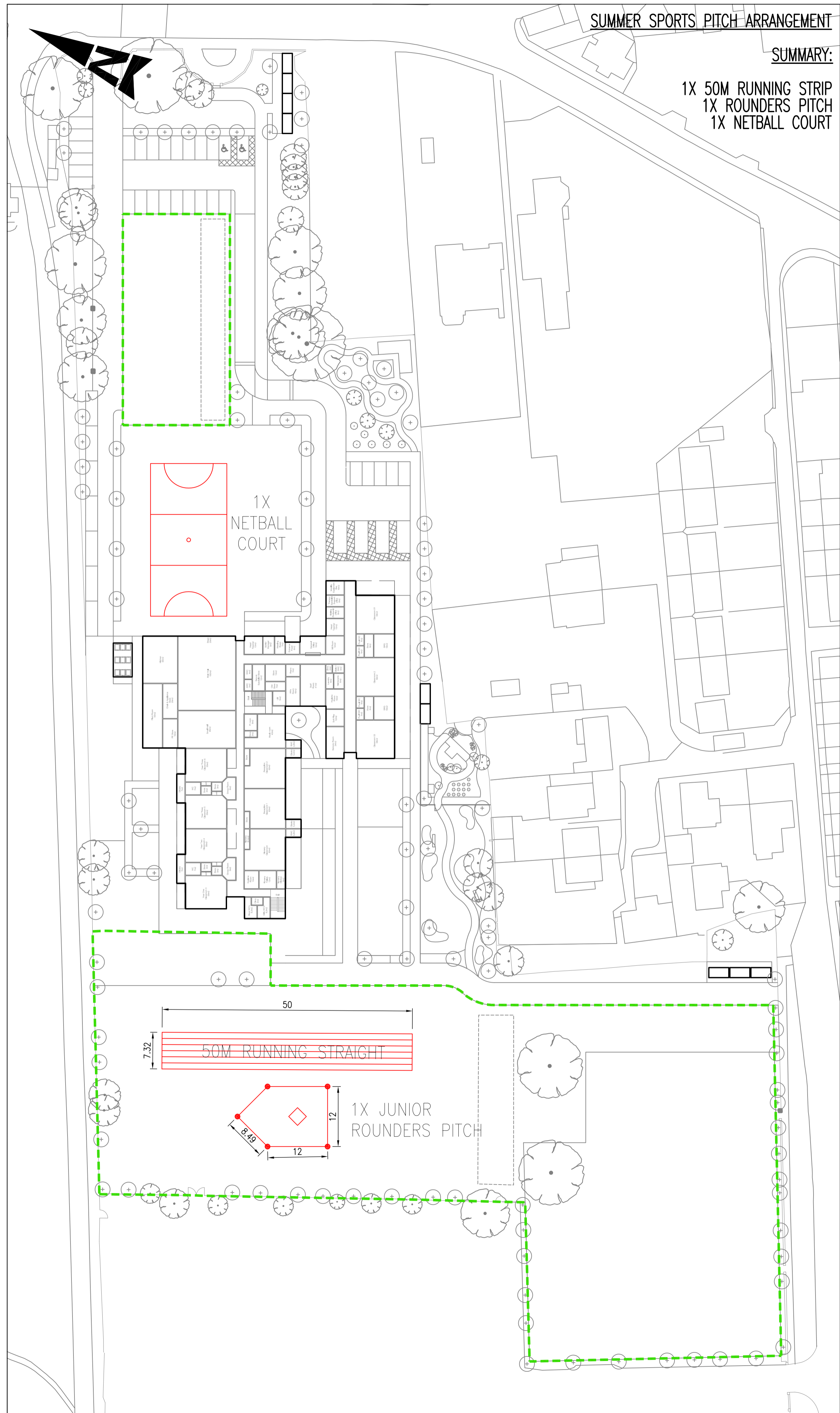
**Atkins Limited**  
Landscape Architecture,  
The Octagon,  
27 Middleborough,  
Colchester, Essex, England  
CO1 1TG  
Tel: (01206) 732000  
Fax: (01206) 732020  
www.atkinsglobal.com

Client  
**LONDON BOROUGH OF RICHMOND-UPON-THAMES**

Project  
**RUSSELL PRIMARY SCHOOL EXPANSION**

Title  
**PROPOSED SPORTS PITCH ARRANGEMENT**

|                         |                                     |                      |                  |                  |
|-------------------------|-------------------------------------|----------------------|------------------|------------------|
| Sheet Size<br><b>A1</b> | Original Scale<br><b>1:500</b>      | Designed/Drawn<br>NP | Checked<br>JH    | Authorised<br>NM |
| Status<br>P             | Drawing Number<br>5127940-COL-LA005 | Date<br>23.09.14     | Date<br>23.09.14 | Date<br>23.09.14 |
|                         |                                     |                      |                  | Rev<br>B         |



**KEY:**

- PLAYING FIELD/ OPEN SPACE BOUNDARY (TOTAL AREA: 8,411M<sup>2</sup>)
- PITCH/ COURT/ TRACK OUTLINE

NOTE:  
 DIMENSIONS ARE BASED ON EXISTING PROVISIONS  
 AND SPORT ENGLAND GUIDANCE DOCUMENTATION

|   |                   |                |          |            |
|---|-------------------|----------------|----------|------------|
| P   | PLANNING          | 23.09.14       | NM       |            |
| Stat  | Purpose of Issue  | Date           | Auth     |            |
|   |                   |                |          |            |
| B   | SCHEME UPDATE     | NP             | 23.09.14 | JH NM      |
| A   | ORIGINAL          | NP             | 23.09.14 | JH NM      |
| Rev   | Description       | By             | Date     | Chk'd Auth |
|   |                   |                |          |            |
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| <b>LONDON BOROUGH OF RICHMOND-UPON-THAMES</b><br>Project<br><b>RUSSELL PRIMARY SCHOOL EXPANSION</b><br>Title<br><b>PROPOSED SPORTS PITCH ARRANGEMENT</b>                      |                   |                |          |            |
| Sheet Size  | Original Scale    | Designed/Drawn | Checked  | Authorised |
| <b>A1</b>   | <b>1:500</b>      | NP             | JH       | NM         |
| Status  | Drawing Number    | Date           | Date     | Date       |
| P   | 5127940-COL-LA005 | 23.09.14       | 23.09.14 | 23.09.14   |
|   |                   |                |          | Rev        |
|   |                   |                |          | B          |