SECURE LINE
EXISTING BUILDINGS TO BE DEMOLISHED
FOOTPRINT OF PRIOR PROPOSAL
OWNERSHIP BOUNDRY
SITE DEVELOPMENT BOUNDRY
APPLICATION BOUNDRY
MAIN ENTRANCES

Area: 20,797m²

Coordinates: 126014E, 847212N

Address: Land adjacent to Dunvegan Primary School, Dunvegan

1 - NEW BUILD PRIMARY SCHOOL
2 - SHELTERED OUTDOOR CLASSROOM
3 - BIKE SHELTER
4 - NURSERY PLAYGROUND
5 - TIERED OUTDOOR AREA
6 - EXTERNAL REFUSE COMPOUND
7 - NEW DROP OFF AND PARKING
8 - ACCESSIBLE PARKING
9 - 37 x 20m MUGA
10 - OUTDOOR PLAYING FIELD
11 - NEW RESIDENTIAL MASTERPLAN SITE & ROAD BY OTHERS
12 - SUDS BASIN
13 - DUNVEGAN STORAGE
14 - SSE SUB STATION
15 - FUTURE SPECTATOR AREA BY OTHERS
16 - M+E PLANT EQUIPMENT
17 - FUTURE SPORTS PITCH BY OTHERS
18 - ASN PLAYGROUND
19 - FUTURE EXPANSION
20 - KILMUIR LINK PATH BY OTHERS
21 - OUTDOOR LEARNING AREA
22 - PLAY AREA

HARD LANDSCAPING
- FEATURE PAVING
- PERMEABLE PAVING TO PARKING
- ASN OUTDOOR PLAYGROUND
- INFORMAL PATH
- OUTDOOR SHELTER
- TIMBER WALKWAY
- HORTICULTURAL BEDS
- RETAINING WALLS
- EXISTING ROAD AND SCHOOL LOOP BY OTHERS

SOFT LANDSCAPING
- AMENITY GRASS
- MEADOW GRASS
- RAINGARDEN PLANTING
- SHRUB PLANTING
- WOODLAND WHIP PLANTING
- SUDS DETENTION BASIN

BOUNDARIES
- WELDMESH FENCING 900MM HIGH
- WELDMESH FENCING 1800MM HIGH
- WELDMESH FENCING 3000MM HIGH

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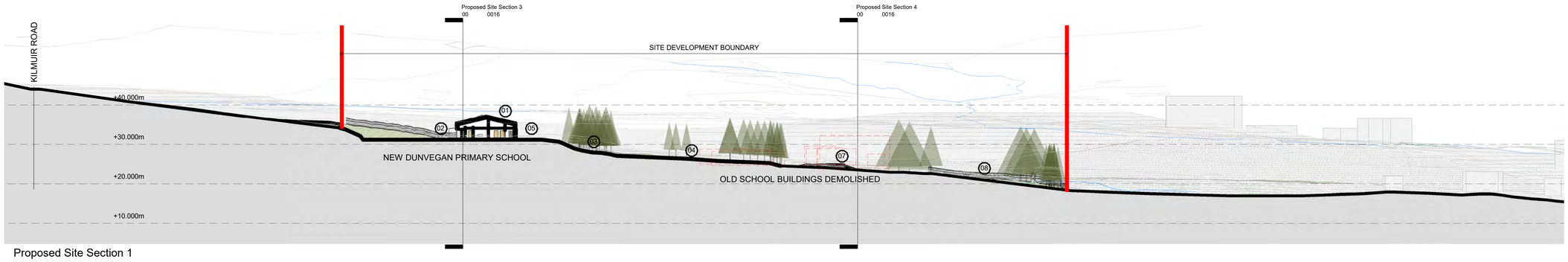
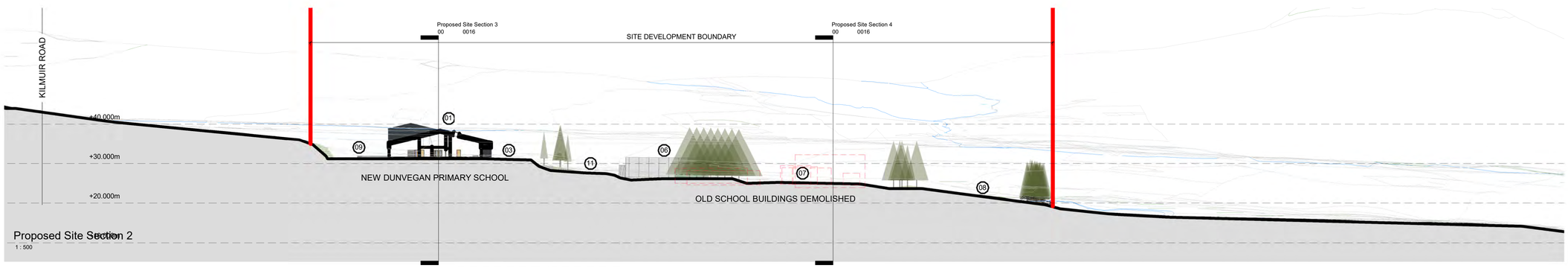
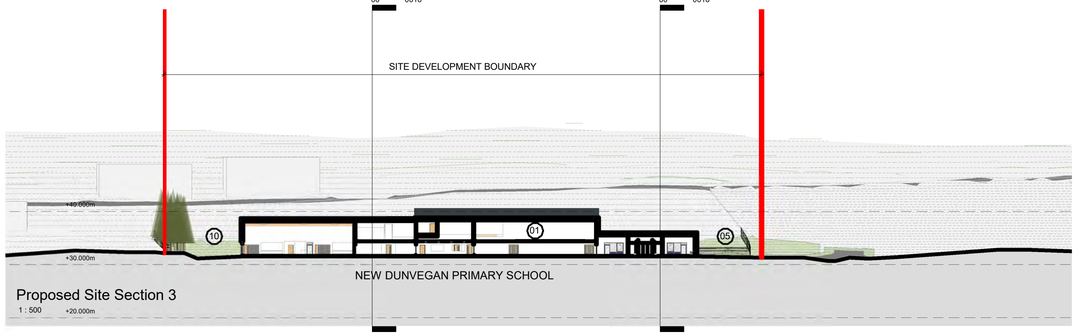
Site Plan as Proposed



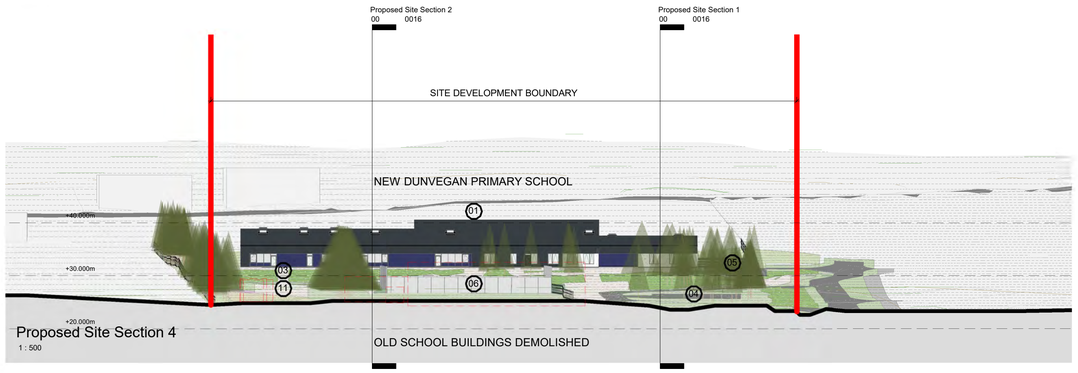
Proposed Site Section 1
1 : 500



Proposed Site Section 2
1 : 500

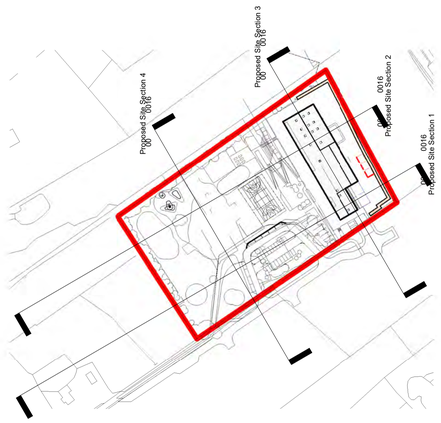


Proposed Site Section 3
1 : 500



Proposed Site Section 4
1 : 500

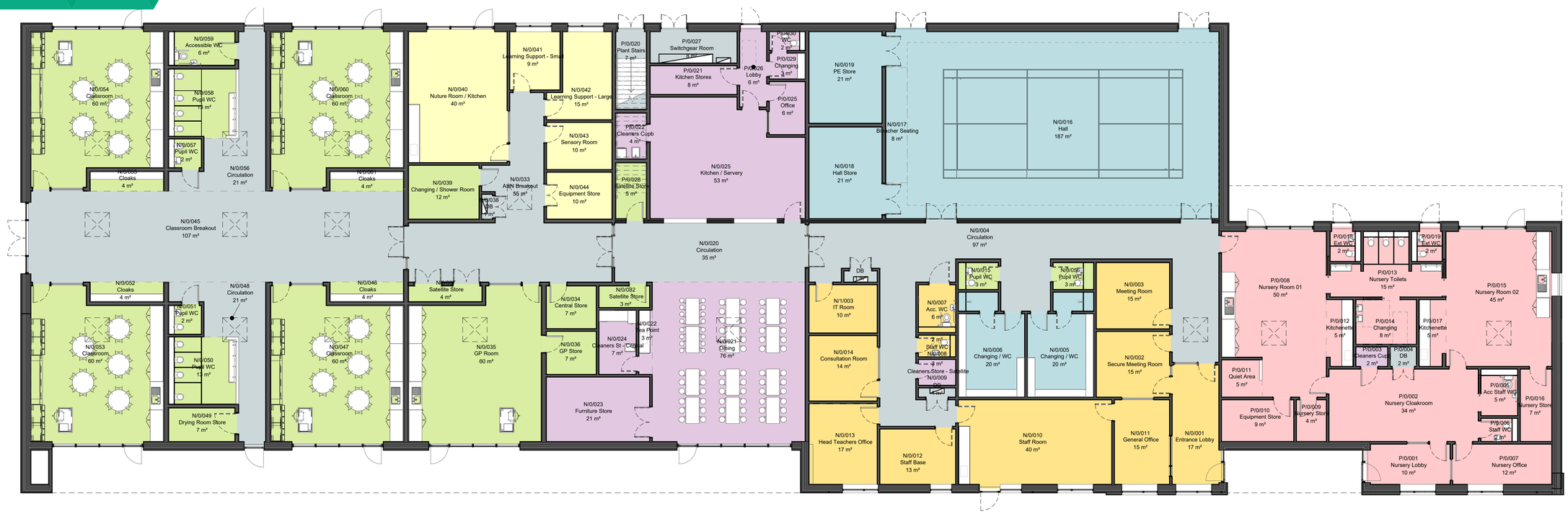
1 - NEW BUILD PRIMARY SCHOOL
2 - NURSERY PLAYGROUND
3 - TIERED OUTDOOR AREA
4 - NEW DROP OFF AND PARKING
5 - ACCESSIBLE PARKING
6 - 37 x 20m MUGA
7 - OUTDOOR PLAYING FIELD
8 - SUDS BASIN
9 - ASN PLAYGROUND
10 - FUTURE EXPANSION
11 - OUTDOOR LEARNING AREA



Proposed Site Sections - Plan Key
1 : 2000

Proposed Site Sections

Site Axonometric



By Department Legend

- 01 - Teaching
- 02 - Hall
- 03 - Staff
- 04 - Kitchen / Dining
- 05 - ASN
- 06 - Nursery
- 08 - Circulation

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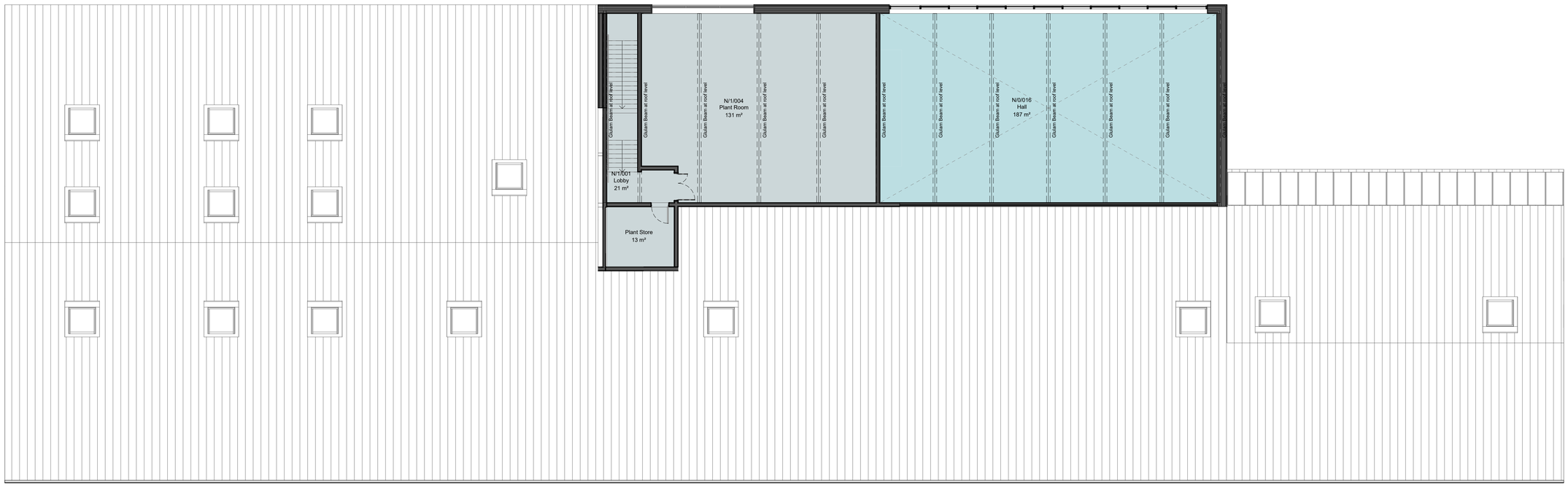
Ground Floor Plan as Proposed



By Department Legend

- 02 - Hall
- 08 - Circulation

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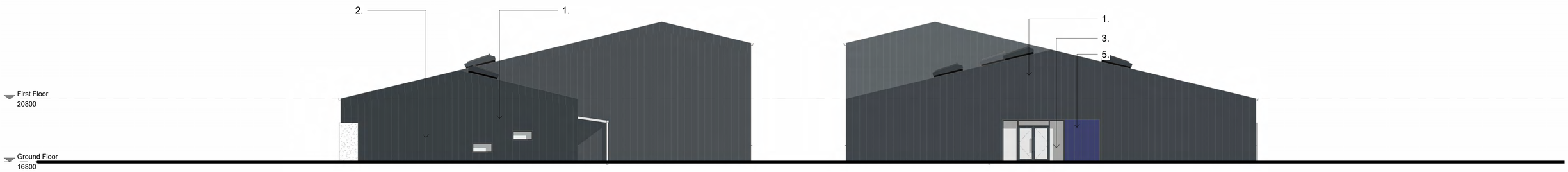
First Floor Plan as Proposed

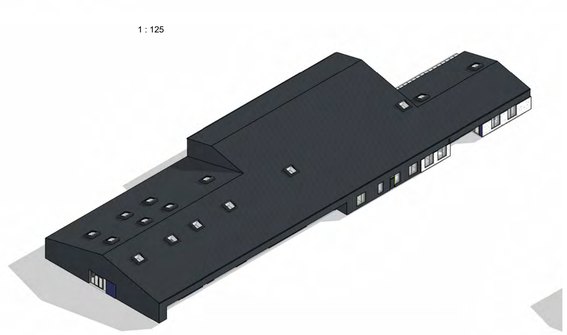
South Elevation
1 : 125

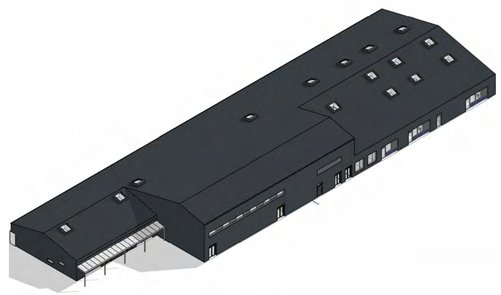


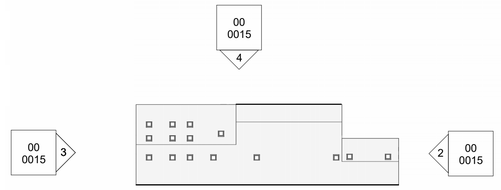
East Elevation
1 : 125

West Elevation
1 : 125

North Elevation
1 : 125







Elevations Key

1. Aluminium Standing Seam Cladding to Walls and Roof. Colour : Anthracite Grey
2. Roughcast Walls. Colour : White
3. Aluminium triple-glazed windows and doors, colour - Anthracite Grey
4. Polycarbonate cladding, colour - clear, opaque
5. Aluminium panels below windows and to entrances, colour: tbc
6. Flush Exist Door, Colour to be RAL 7016 Antracite Grey.
7. Nursery Canopy
8. Classroom Solar Shading
9. Ventillation Roof Cowls

— Indicative Extent of Photovoltaics

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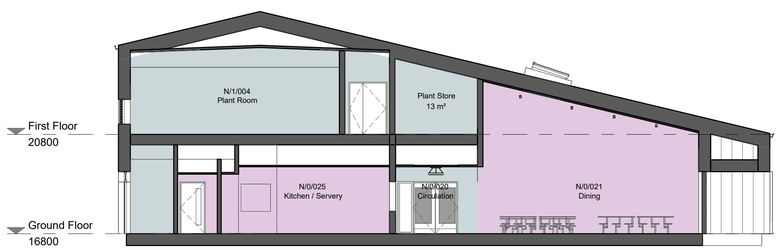
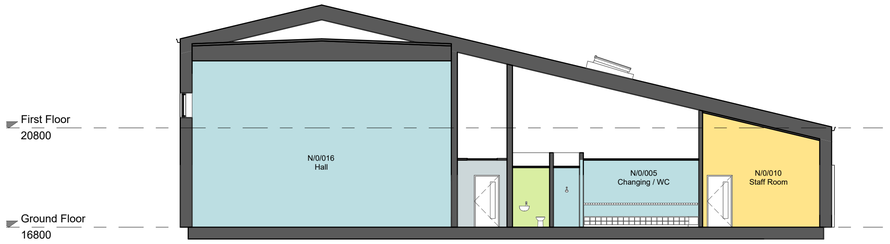
Elevations as Proposed

Section AA
1 : 125

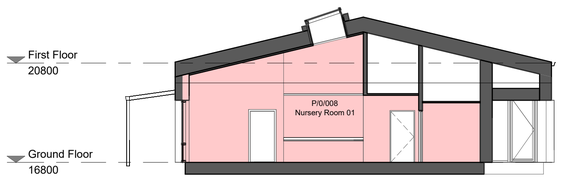
Section BB
1 : 125



Section CC
1 : 125



Section DD
1 : 125

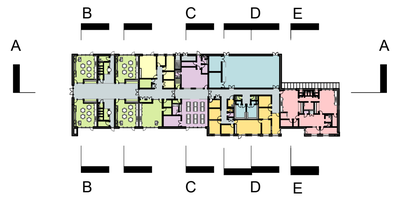


Scale: 1 to 125

0 6.25 12.5

By Department Legend

- 01 - Teaching
- 02 - Hall
- 03 - Staff
- 04 - Kitchen / Dining
- 05 - ASN
- 06 - Nursery
- 07 - Library
- 08 - Circulation



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Sections as Proposed

Classroom Block Plan
1 : 200

By Department Legend

- 01 - Teaching
- 02 - Hall
- 03 - Staff
- 04 - Kitchen / Dining
- 05 - ASN
- 06 - Nursery
- 08 - Circulation

Axonometric - Classroom Highlight
1 : 200

Axonometric - Classroom Block
1 : 100

Visualisations

Visualisations

School Interiors

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Materials

PASSIVHAUS SCHOOLS

Energy and Carbon Saving Performance | Year-round Comfort | High Quality Design and Construction

What is Passivhaus?

Passivhaus is a proven and independently certified global energy performance standard that has consistently delivered high quality buildings around the world for the last 30 years. The standard sets performance targets for:

- **Space Heat Demand** (annual energy consumption to heat the building) < 15 kWh/m2/yr.
- **Primary Energy Demand** (annual energy for all heat, power & services - from generation to end use). < 60 kWh/m2/yr.
- **Airtightness** - (how many times the air in the building changes under a set pressure) < 0.6 ach.

It also follows a rigorous whole-building quality assurance method during the design and construction. This process is guided by robust design tools and calculation methods and is independently assessed and certified.

Certified Building performance standard

Calculation methods

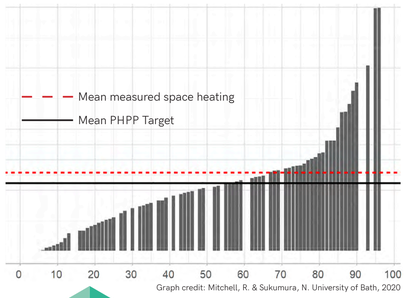
Certified people and components

Benefits

- Quality is central to the design, construction and certification
- Lowers future demand for renewable energy
- Delivers consistent levels of fresh air year-round
- Resilient and future-proof buildings
- Route to net zero carbon
- Improved health & well-being of staff, students and community
- Lower maintenance and management costs
- Improved learning outcomes
- Lower cooling requirement in warming climate

Closing the Gap

For over 30 years, Passivhaus projects around the world have been consistently closing the 'performance gap'—the difference between expected and actual energy performance. The graph below illustrates this in recent UK Passivhaus homes, showing space heating energy use. The minimal performance gap is evident between the 'mean PHPP target' and measured space heating.
In addition to closing the energy performance gap, the adoption of Passivhaus also ensures exceptional comfort and broader benefits - as shown at left - all designed and built into every certified building.



Graph credit: Mitchell, R. & Sukumura, N. University of Bath, 2020

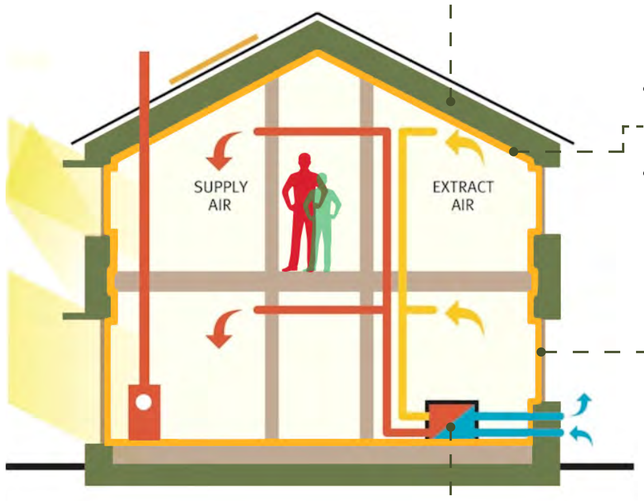
Buntingford School

Client: Hertfordshire County Council
Passivhaus consultant: Sussed Sustainability
Architect: Holmes Miller

"Hertfordshire County Council came to us with a bold brief, meeting Passivhaus and net zero carbon objectives. We have collaborated with the whole team to deliver a bulding which meets these exacting standards whilst also creates a healthy, beautiful, and vibrant environment for children."

- Matt Bridgestock, Sussed Sustainability

Key Concepts



Airtightness

- Airtight building fabric
- Continuous airtightness layer
- Saves energy by reducing heat loss in winter
- Protects structure from moisture build-up
- Ensures that MVHR equipment operates efficiently

Glazing

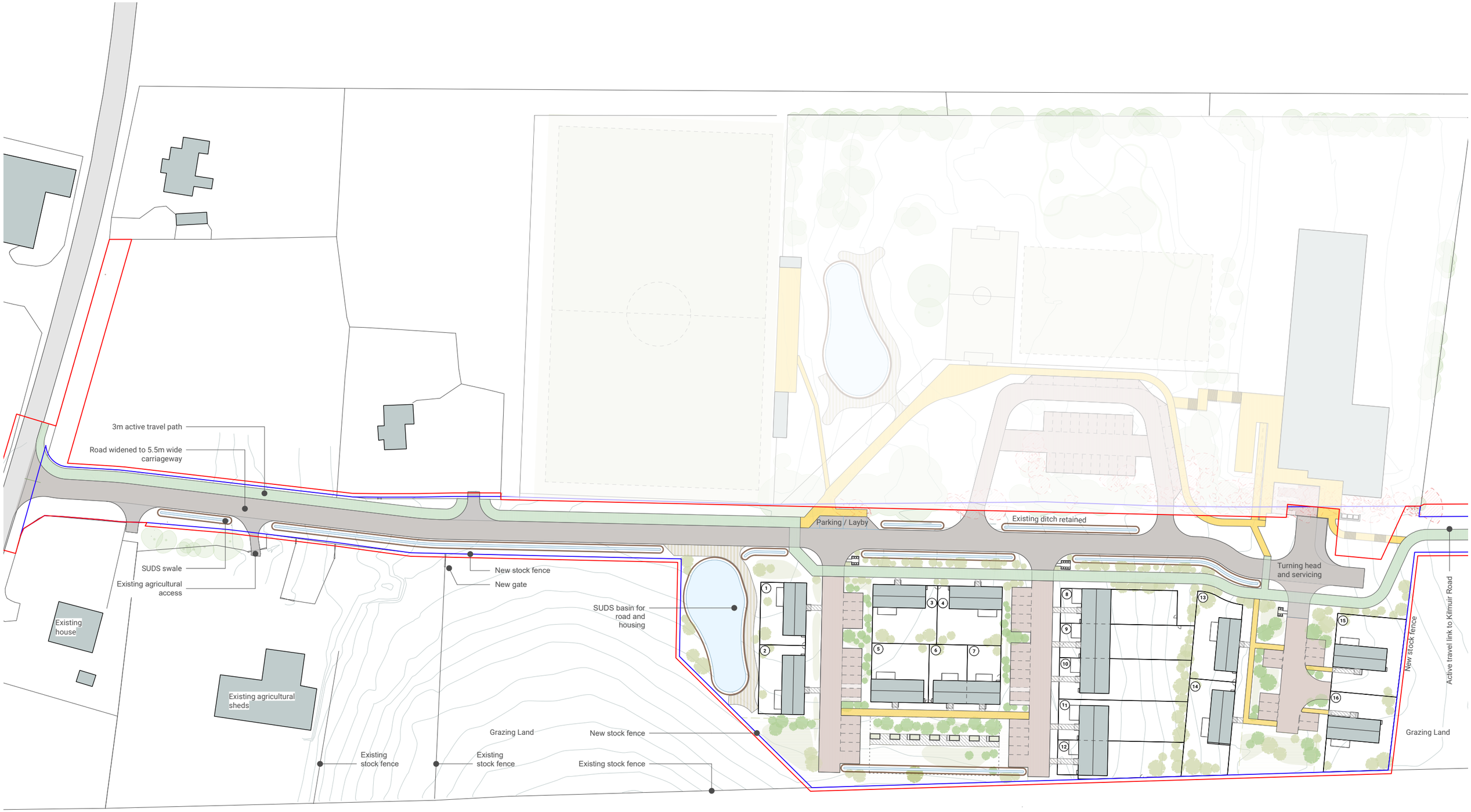
- Triple Glazed windows
- Optimal window sizing and shading design
- High performance windows enable design for daylighting - reducing demand for artificial lighting
- Aim to balance winter solar gain and summer comfort
- A mix of openable and fixed casements enables user control of natural ventilation

Insulation

- High levels of insulation to whole building
- Thermal bridge free - insulation continuous at junctions and openings
- Saves energy and reduces CO2 emissions
- Maintains comfortable surface temperatures in winter
- Keeps building cool in summer

Ventilation & Services

- Mechanical ventilation with heat recovery (MVHR) dramatically reduces winter heating
- MVHR filters incoming air - creating good indoor air quality
- Opening windows provide options for additional natural ventilation in summer
- Heat recovery - combined with the other concepts - mean it is easier to meet heat demand with smaller,



1 Block Plan
Scale: 1:1000

0 20 30 40 50 M

Rev	Rev Date	Note
B	2022-03-28	Drainage red line revised. Ditch added

Dualchas.

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DRAWING SET
PLANNING

DRAWING TITLE
BLOCK PLAN

DRAWING NUMBER
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SCALE
1:1000 @A3

CLIENT
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DRAWN BY
IH

DATE
10/07/2020