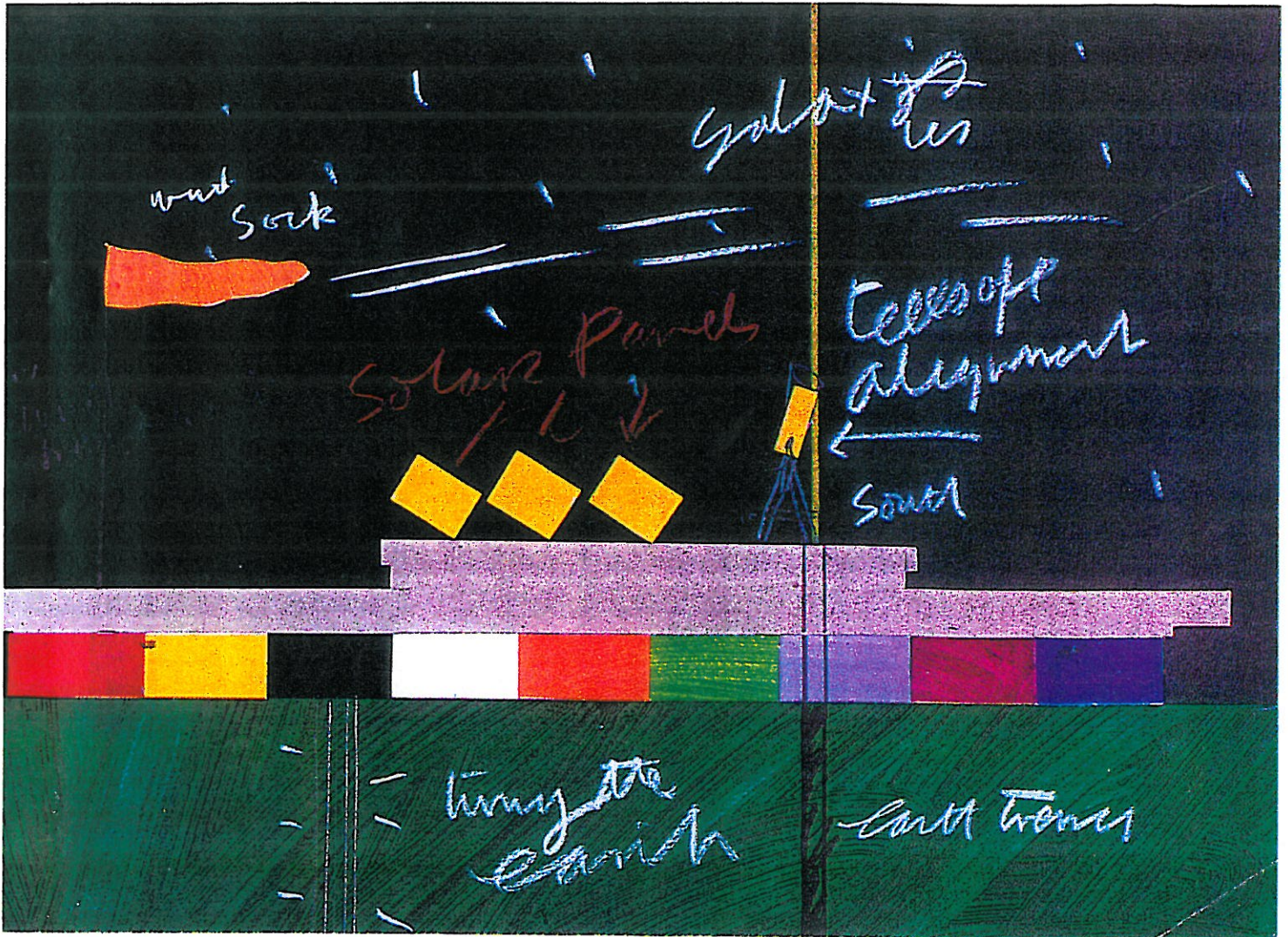


School as a rule 'Wonderwall'



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School as a rule

A proposal for the North wall of the new Lawthorn primary school

This is an outline for an intervention or series of interventions for the 'Lawthorn' school project, Irvine. As a result of the feedback we received from the workshops the north facade has been chosen as the 'site' for 'school as a rule'.

The north facade is divided into seven separate zones, which describe the various internal and external activities and functions of the primary school.

The facade has two states, open and closed. In its closed state the whole facade resembles a gigantic ruler in the landscape, which at 1:1 scale describes distance in 100mm increments. This element is designed to be lit at night and incorporates a series of security screens. In its 'open' state elements of the facade slide away to reveal the seven zones, which notably include the Audio Visual room, Plant room and Staff room. Each one of these areas attempts to animate both the operational and programmatic workings of a new primary school. A varied palette of materials and techniques are used to help illustrate these different functions.

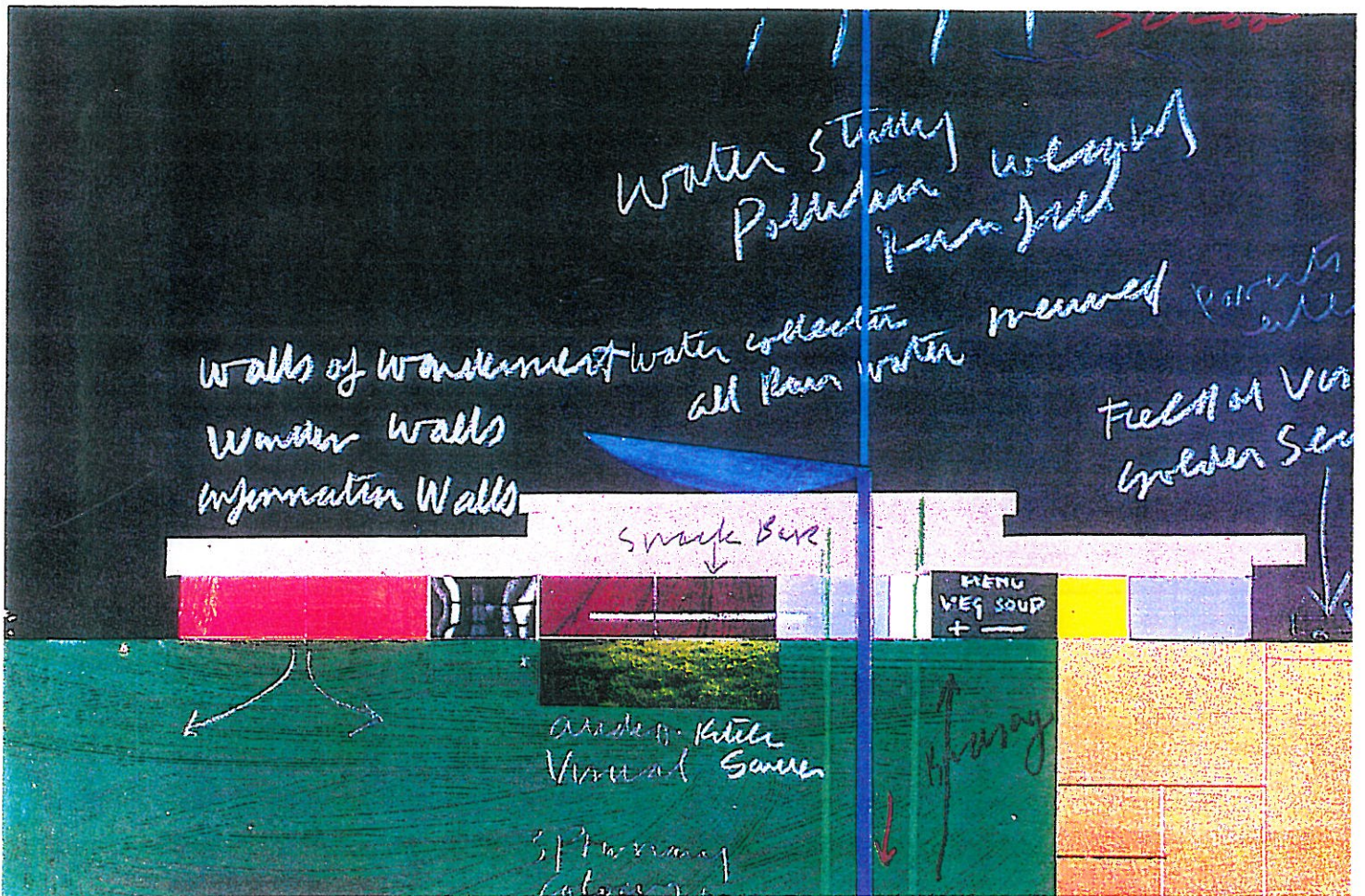
Besides the facade itself we have also included additional elements in this proposal which include a remote CCTV link to the 'protected wilderness', and a 60M informational text inlaid as a flooring strip approximately 2M from the building.

This intervention on the north facade would take what is essentially the 'back' of the school and transform it into a special study area. This would require that a zone in front of the facade be designated paved area, or 'outdoor class' areas whilst still allowing access for kitchen deliveries and occasional access to the plant room.

* ZONES

These initial specifications and costings generally include approximate prices for the specialist claddings and materials by the artist (the artwork). These costs should be read in conjunction with existing estimates for the North wall. In certain cases zones such as the Audio Visual room will replace areas of solid wall thus having implications on the total cost. Whereas, Zone 7 (the nurses room) imagines a glazed cladding of blockwork wall.

The prices are based on cost estimates supplied by specialist manufacturers and suppliers with whom Bruce Mclean has successfully worked in the past (large scale commissions and sculptures). Bruce Mclean is always keen to work with new manufacturers and fabrication processes and would seek to make contacts locally with the help of NAC's architects dept.



Preliminary sketch Bruce McLean

ZONE 1**Class Base 1**

This encloses one of two class bases on the North wall. Three large glazed panels sit within a specially rendered wall, with line markings and scaled increments in a black render onto a white render base. The window units incorporate etched or screenprinted text.

Dimensions:

6 metres x 2.4 metres

Specifications:

High grade industrial epoxy rendered finish onto blockwork with design in contrasting render. All render colours are lightfast and will be treated with a clear matt anti-graffiti coating.

2400mm x 1000mm Powder coated aluminium window frames, with double glazed window units.

(This does not include for security grilles on the windows).

Estimated cost (Supply and fix)

Window units (double glazed) x 3	£1,629
Render system with stencils and design	£2,469
Special glass finishes	£1,500
	£5,598

ZONE 2**Class Base 2**

This is essentially the same finishes and components of class base 1, but with different designs in the render. Three large glazed panels sit within a specially rendered wall, with line markings and scaled increments in a black render onto a white render base. The window units incorporate etched or screenprinted text.

Dimensions:

6 metres x 2.4 metres

Specifications:

High grade industrial epoxy rendered finish onto blockwork with design in contrasting render. All render colours are lightfast and will be treated with a clear matt anti-graffiti coating.

2400mm x 1000mm Powder coated aluminium window frames, with double glazed window units.

(This does not include for security grilles on the windows).

Estimated cost (Supply and fix)

Window units (double glazed) x 3	£1,629
Render system with stencils and design	£2,469
Special glass finishes	£1,500
	£5,598

ZONE 3

Audio Visual room

The audio visual room is intended to be one of the main interventions in the North wall and is consistent with 'Wonderwall' presented at the second workshop in Irvine 24th -25th November 1999.

The Library / audio visual room would become the key to the gathering and dissemination of information, connected to the rest of the school on an internal computer system. Its window becomes a window on the world, the ears and eyes of the school. The space would be equipped to receive, monitor and disseminate information received from TV, aural recording, sounding and meteorological equipment in the school grounds (thereby augmenting surveillance security); to store material, and to display in a variety of media ongoing information.

The wall to the audio visual room would consist of a single, glazed shopfront type window with a series of special viewing devices and apparatus fixed to it including prismatic glass / mirror / magnification film. The glass will also incorporate specially etched designs and measurement markings.

As part of the audio visual room a remote CCTV link is proposed. This connects the room to the 'protected wilderness' a fenced area of woodland to the north of the site via a TV link.

Dimensions:

6 metres x 3 metres

Specifications:

15mm toughened glass window (in panels) in an powder coated aluminium frame, with special designs by the artist.

A selection of special viewing devices mounted to the inside of the window.

Internal blind system.

4 CCTV cameras with telemetry function, associated cabling and multiplex edit desk.

Screenprinted, powder coated sliding steel protective panels. (see additional items listed below)

Estimated cost (Supply and fix) which does not include the sliding doors.

CCTV cameras and equipment	£12,000
Aluminium shopfront with fire exit incorporated	£3,884
Special glass with designs and viewing devices	£6,000
Stencils	£627
Internal blind	£1,000
	£23,511

ZONE 4**Kitchen**

The kitchen wall projects the activities and aesthetic of the kitchen onto the outside wall. The wall consists glazed white brickwork incorporating text and image, including recipes and ingredients and their origins. The wall will also relate to the growth and cultivation of plants and a designated area in front of the kitchen wall should include an area for plant and Herb growing.

Dimensions:

12 metres x 2.4 metres

Specifications:

Glazed bricks with designs and texts by the artist. Handpainted or screenprinted design in epoxy paint finish.

Estimated Costs (Supply and fix)

This includes glazed bricks with incorporated design.

Glazed bricks	£5,400
Stencil's and design	£1,500
Cost of construction (P/S)	£4,000
	£10,236

ZONE 5**Plant room**

The plant room facade consists of a semi-transparent glass wall exposing and illuminating the machine room for the school. If possible the design of the necessary plant can be executed in such a way as to reveal and categorise the types of operation and consumption; heating & ventilation, water / gas / electricity intake etc. This could then be used for project work relating to energy conservation.

The plant room could also be seen as an environmental 'barometer' measuring and displaying wind speed, temp, humidity, water quality etc.

Dimensions:

6 metres x 2.4 metres

Specifications:

Folding toughened glass wall (to allow for access and the future replacement of large plant equipment). The glass wall will incorporate text and image by the artist.

Screenprinted, powder coated sliding steel protective panels. (see additional items listed below)

Estimated Costs (Supply and fix)

Folding glass doors	£9,800
Stencils	£627
Sandblasted design including stencil's	£2,160
	£12,587

ZONE 6**Staff room**

The staff room wall creates the effect of a 3 metre x 3 metre blackboard. This 'blackboard' is constructed as a monolithic terrazzo wall (in black) with a line drawing (possibly a blackboard drawing made at one of the workshops). The wall will include small windows to ensure the required levels of privacy.

Dimensions:

3 metres x 2.4 metres

Specifications:

3 metre x 1 metre x 50mm thick black terrazzo slabs (with stainless steel reinforcing), with a line drawing inlaid with white terrazzo. The terrazzo would be employed as a cladding panel onto blockwork or similar. Slots to the backside of the terrazzo panels would allow fixing by a corbel plate bolted to the blockwork.

Estimated Costs (Supply and fix)

Terrazzo with design	£2,950
Stencil for terrazzo mould	£627
Installation (P/S)	£1,000
	£4,777

ZONE 7**Nurse room**

The Nurse room wall celebrates the growth and development of the child. The wall shows anthropometric data and fundamental rule bases for future investigation; primary colours / primary structures / prime numbers etc. These systems are displayed as text and image on a glass wall.

Dimensions:

15.5 metres x 2.4 metres

Approximately 46.5m²

Specifications:

2.4m high x 1m wide x 15mm thick toughened glass panels fixed to blockwork with 'planar' type stainless steel fixings. Designs by the artist are screenprinted, painted and fired into the glass using a type of enamelling process. This creates a coloured, opaque finish.

The glass panels do not replace the existing wall, but act as a wall cladding except for the clear glazed sections to correspond to existing areas.

Estimated Costs (supply and fix)

This includes the decorated glass cladding.

41m ² of white coloured glass with design in black @ £600 m ²	£24,600
Stencils for artwork	£1,567
Stainless Steel fixings, delivery and installation	£8,520
	£34,687

ADDITIONAL ITEMS

Sliding steel protective panels.

These folded sheet steel panels are designed to protect the most fragile elements of the north facade. When they are closed at night they also visually create the 'school as a rule' an enormous ruler in the landscape. The areas of the facade that are not protected by the panels will have a similar graphic treatment (with marked increments and numbers) so that the overall effect will be that of the ruler, whilst maintaining material differences.

Dimensions:

3 metres x 2.4 metres

Specifications:

4mm m/s sheet on 50mm SHS Frames. Panels zintec sprayed with a powder coated finish with screenprinted designs by the artist.

Sliding door gear. Top hung heavy duty door gear with floor guide.

Estimated Cost (Supply and fix) include for 4 doors with specialist paint finishes and sliding door gear @ £1,750 each.

£7,000

Informational text strip

A strip of text will run the entire length of the building approximately 55 metres. This text will be set into the paving which lies immediately in front of the north facade. This text will relate to the various designated zones and act as a key to both the activities and associated themes of the 'school as observatory'.

Dimensions:

55 metres long x 500 mm wide (2 metre long slabs)

Specification:

1200mm x 600mm x 50 mm thick terrazzo slabs with inlaid text .To be laid on a 4 & 1 semi dry sand and cement mix.

Estimated cost (Supply and fix)

linear cost of terrazzo including text.

46 Terrazzo slabs with text @£120 per slab.

£5,520

Installation

£1,905

£7,425