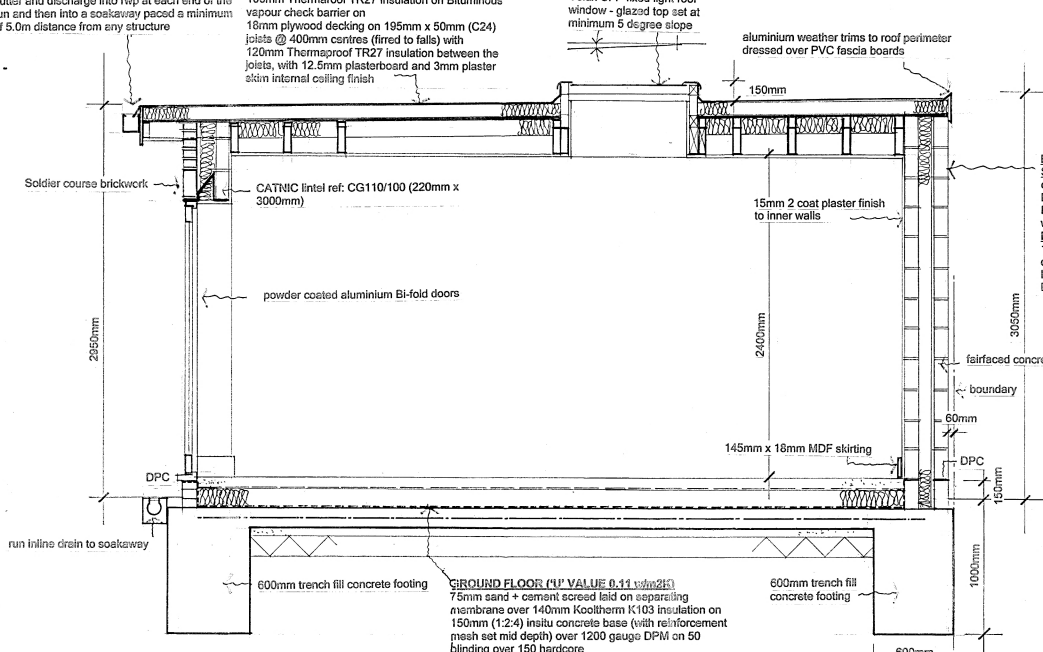
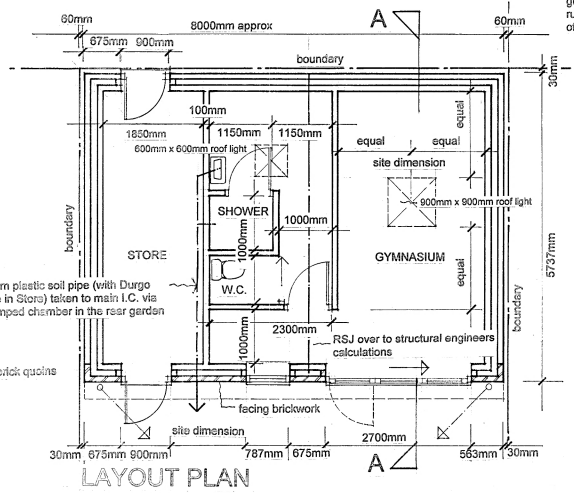


FLAT ROOF DECK ('U' VALUE 0.10w/m2.K)
 single ply membrane adhered to 100mm Thermofoam TR27 insulation on Bitumast vapour check barrier on 18mm plywood decking on 195mm x 50mm (C24) joists @ 400mm centres (fired to falls) with 120mm Thermofoam TR27 insulation between the joists, with 12.5mm plasterboard and 3mm plaster skin internal ceiling finish

Velux CFP fixed light roof window - glazed top set at minimum 5 degree slope



EXTERNAL WALLS - 'U' VALUE 0.14w/m2.K
SIDES + REAR WALLS - 325mm cavity walls consisting external fair faced 100mm concrete blocks and a 125mm cavity with 115mm Kooltherm K106 insulation held against the inner wall of 100mm ThermaLite blockwork
FRONT WALL - 337mm cavity wall consisting 112mm facing brickwork outer wall with 125mm cavity and 115mm Kooltherm K106 insulation held against the inner wall of 100mm ThermaLite blockwork

wall ties - use 'Catnic' BB-3 stainless steel strip ties (or similar approved), installed at 450mm vertical centres and 900mm horizontal staggered spacing

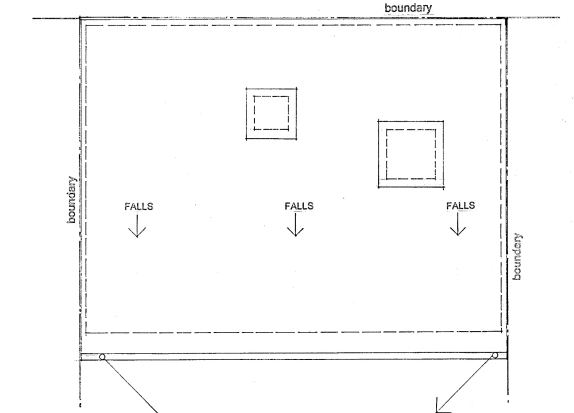
vertical restraint straps (wall plates) - use 'Catnic' VL1000/100 to each end of truss rafters - use minimum of 4 No 10 x 50mm plated wood screw fixings into the blockwork with one fixing within 150mm from bottom of strap - (2 fixings into the truss timber), straps to be placed at maximum 1800mm centres.

vertical restraint straps (trusses) - use 'Catnic' VL1000/100 to restrain timber wall plates - use minimum of 4 No 10 x 50mm plated wood screw fixings into the blockwork with one fixing within 150mm from bottom of strap - 2 fixings into the timber wall plate - restraint straps at maximum 1500mm centres

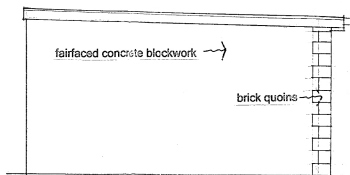
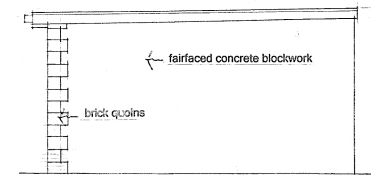
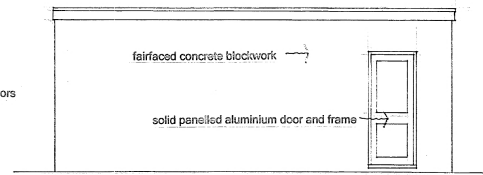
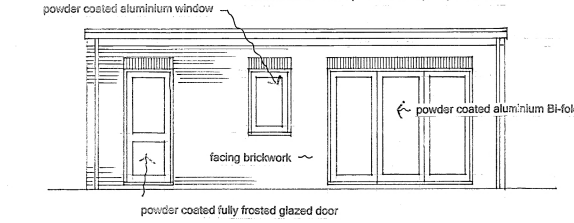
horizontal restraint straps - use 'Catnic' HL1000/100 at max 1500mm centres where joist run parallel to the external wall - use 10 x 50mm plated wood screw fixings to each joist with 2 fixings using same to blockwork

joist hangers - use 'Catnic' TTL hangers where required secured using 30mm long galvanized plateboard nails - nail fixings through all fixing holes

wall connectors - use 'Catnic' stainless steel Stronghold Wall connectors Ref: SHWC and connector wall ties at junctions of new and existing walls - install wall ties every third brick course and secure connectors at approx every 1.0m using stainless steel coach screws and as directed by specialist suppliers recommendation



SOAKAWAY - Supply and install plastic soakaway crates (each crate is 1.2m x 0.6m x 0.42m depth) (Brett Martin or similar), 3 crates wide in a single pit and enclose with non woven 'Gestextile' material sealed with waterproof Gaflex tape at joints (to cope with a capacity of 45 sq m of surface water) - all bed on gravel - the sides and top are to be back filled with consolidated permeable gravel and all covered with min 300mm soil and lawn - each crate has 15 sq m rainfall capacity from roof



FRONT ELEVATION

REAR ELEVATION

SIDE ELEVATION (north)

SIDE ELEVATION (south)

AXIS
 AXIS ARCHITECTURAL
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 247 NORTHUMBERLAND AVENUE
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Drawing Title
CONSTRUCTION DETAILS

Job Title
PROPOSED GYMNASIUM AND STORE IN REAR GARDEN

Drawn by
 MJD
 Job No
 LA/

Date
 SEPT 2023
 Drawing No
 101/G

Scale
 1:50 + 1:20 @ A1