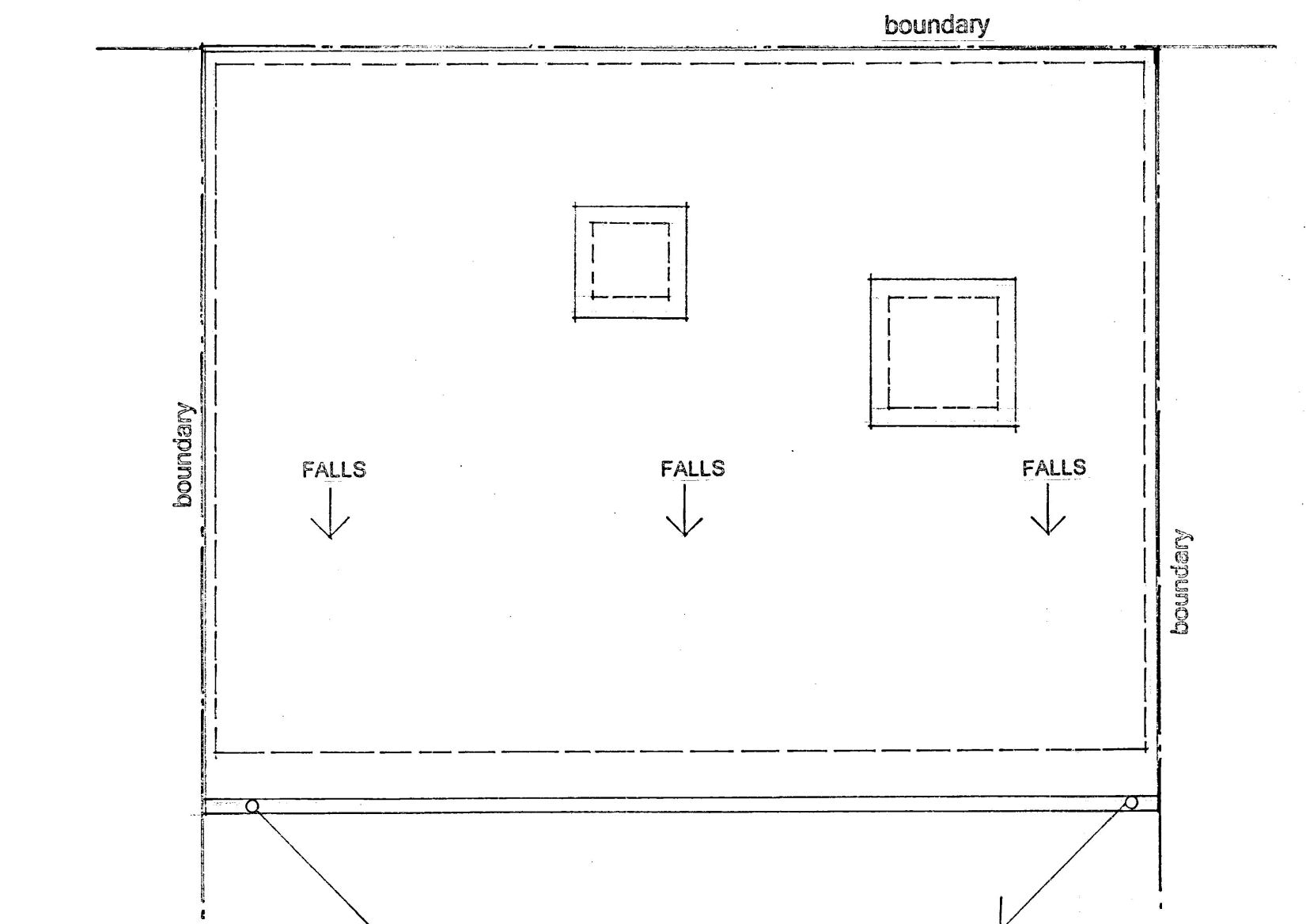
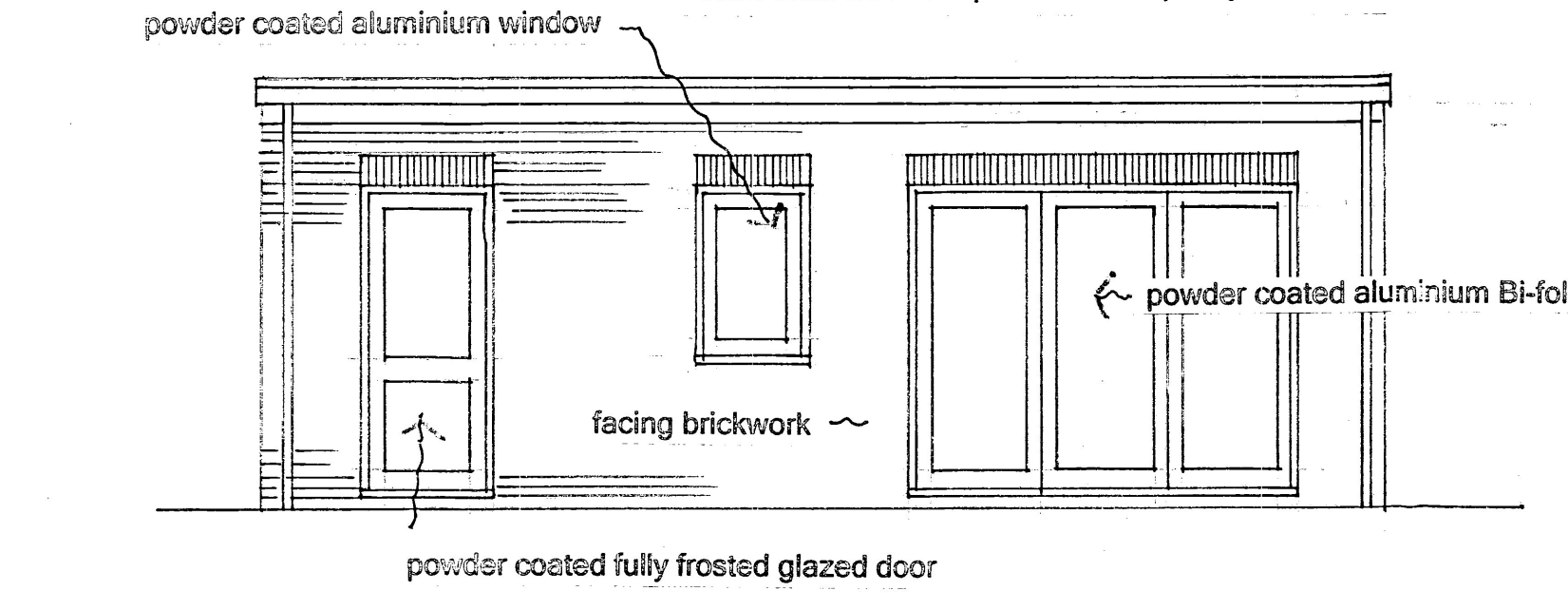


LAYOUT PLAN

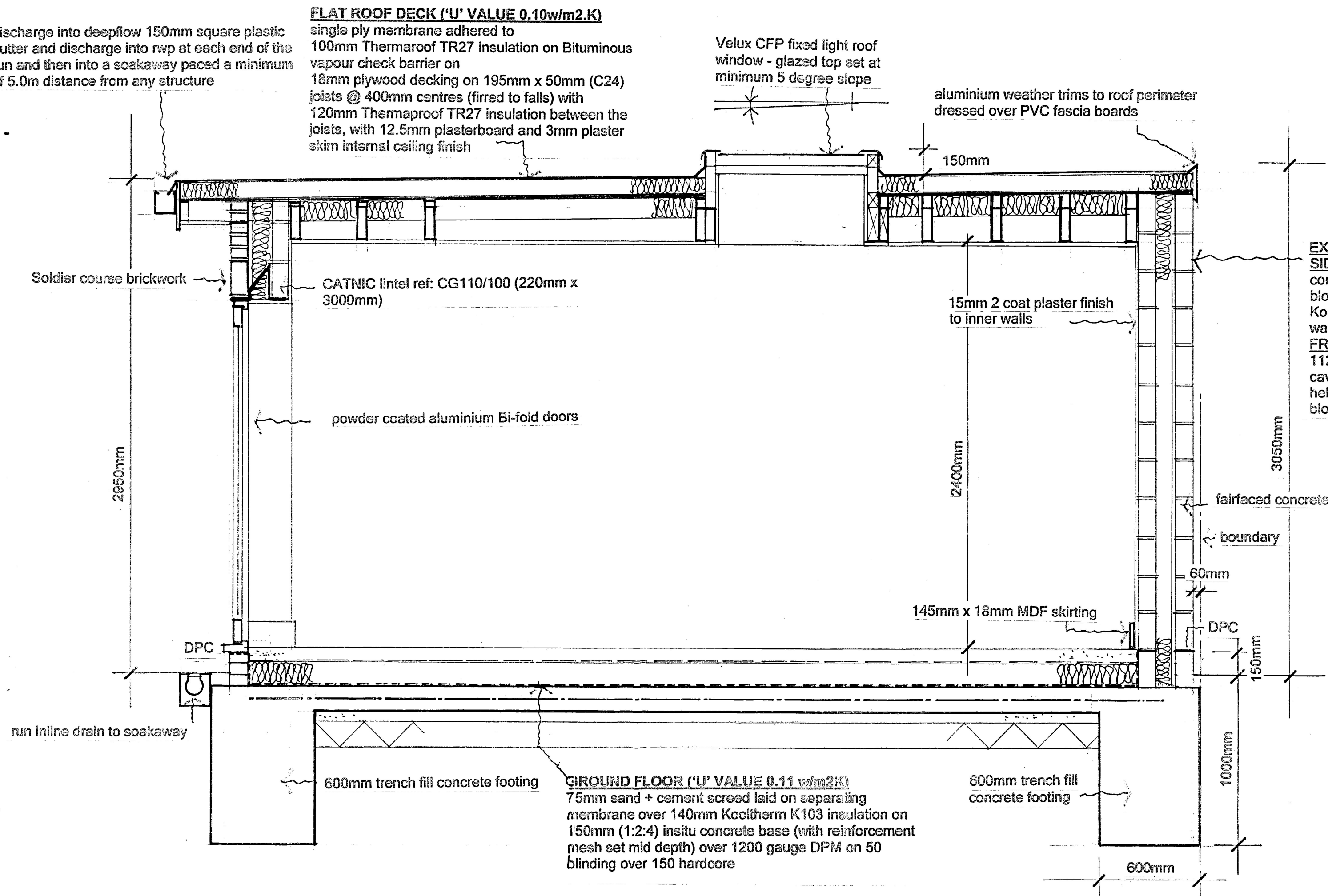


ROOF PLAN

SOAKAWAY - Supply and install plastic soakaway crates (each crate is 1.2m x 0.6m x 0.42m depth) (Erett Martin or similar), 3 crates wide in a single pit and enclose with non woven 'Gestextile' material sealed with waterproof Gaffa tape at joints (to cope with a capacity of 45 sqm 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 sqm rainfall capacity from roof



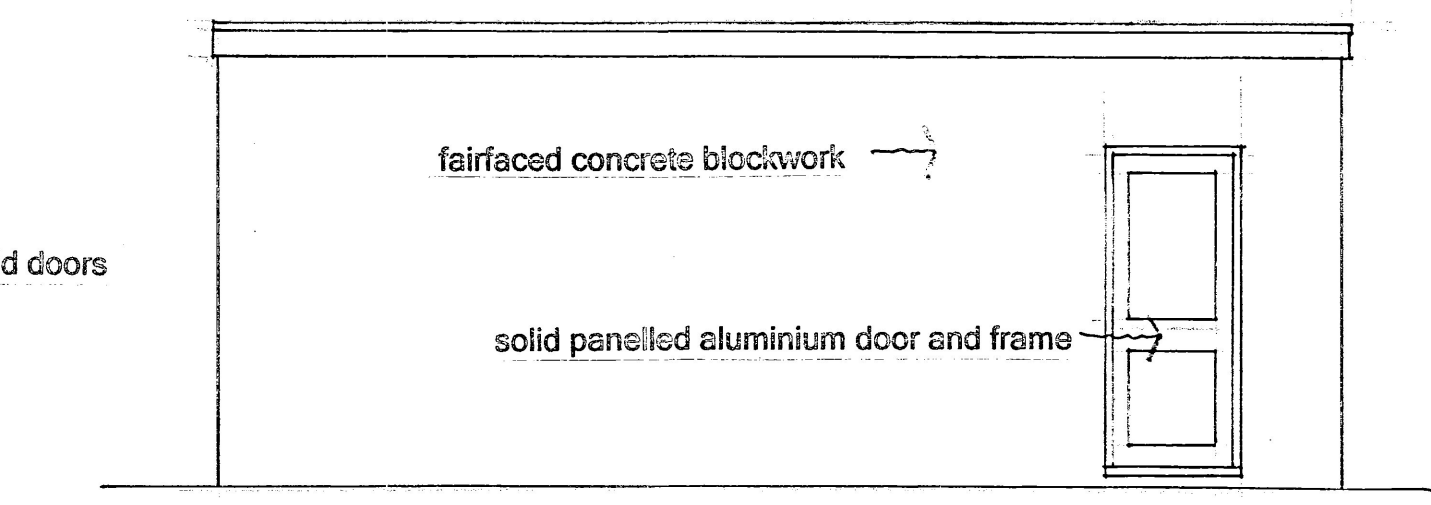
FRONT ELEVATION



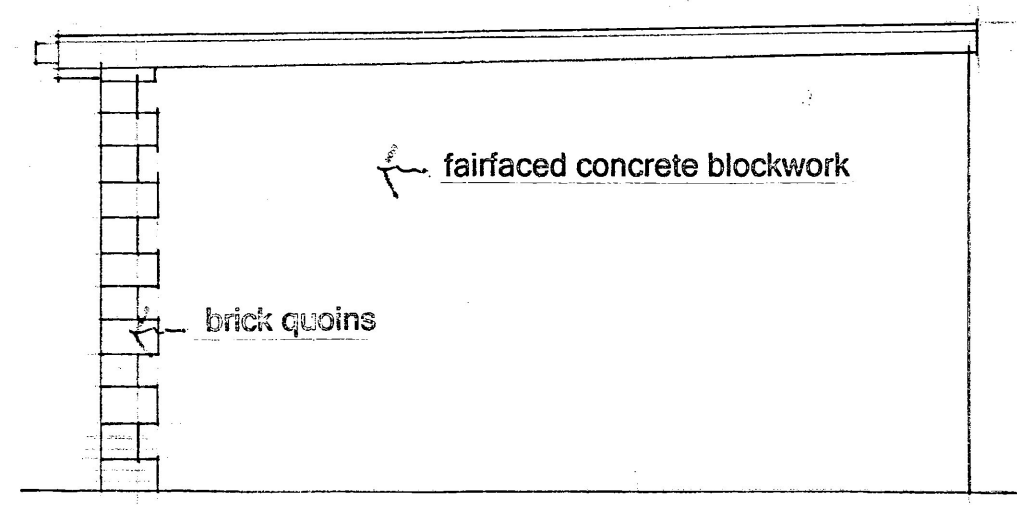
SECTION A-A

FLAT ROOF DECK ('U' VALUE 0.10w/m2.K)
 single ply membrane adhered to 100mm Thermofoam TR27 insulation on Bituminous 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 skim internal ceiling finish

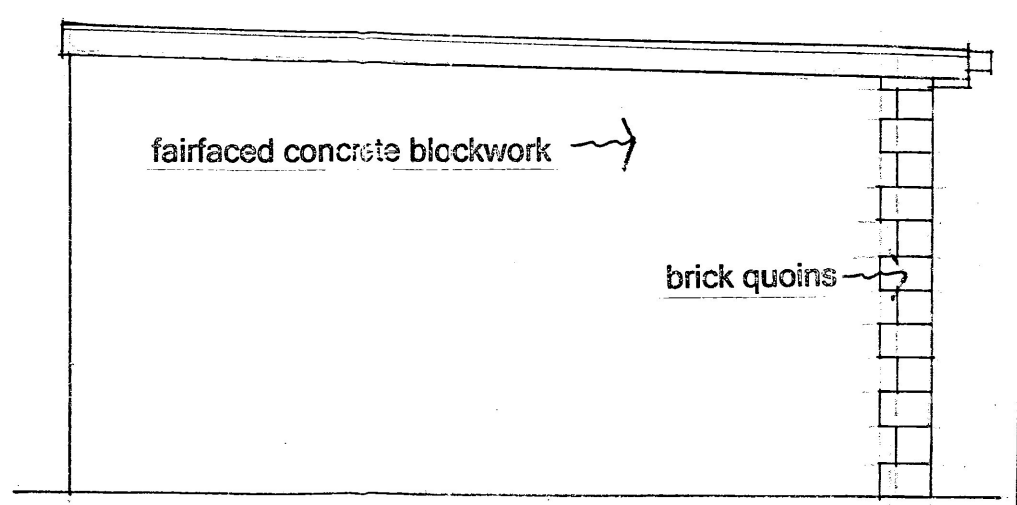
GROUND FLOOR ('U' VALUE 0.11 w/m2.K)
 75mm sand + cement screed laid on separating membrane over 140mm Kooltherm K103 insulation on 150mm (1:2:4) in situ concrete base (with reinforcement mesh set mid depth) over 1200 gauge DPM on 50 blinding over 150 hardcore



REAR ELEVATION



SIDE ELEVATION (north)



SIDE ELEVATION (south)

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 galvanised plasterboard 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 tie every third brick course and secure connectors at approx every 1.0m using stainless steel coach screws and as directed by specialist suppliers recommendation

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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
 1017/G

scale
 1.50 x 1:20 @ A1