

discharge into deepflow 150mm square plastic gutter and discharge into rwp at each end of the run and then into a soakaway paced a minimum of 5.0m distance from any structure

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

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

aluminium weather trims to roof perimeter dressed over PVC fascia boards

EXTERNAL WALLS - 'U' VALUE 0.14w/m2K
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

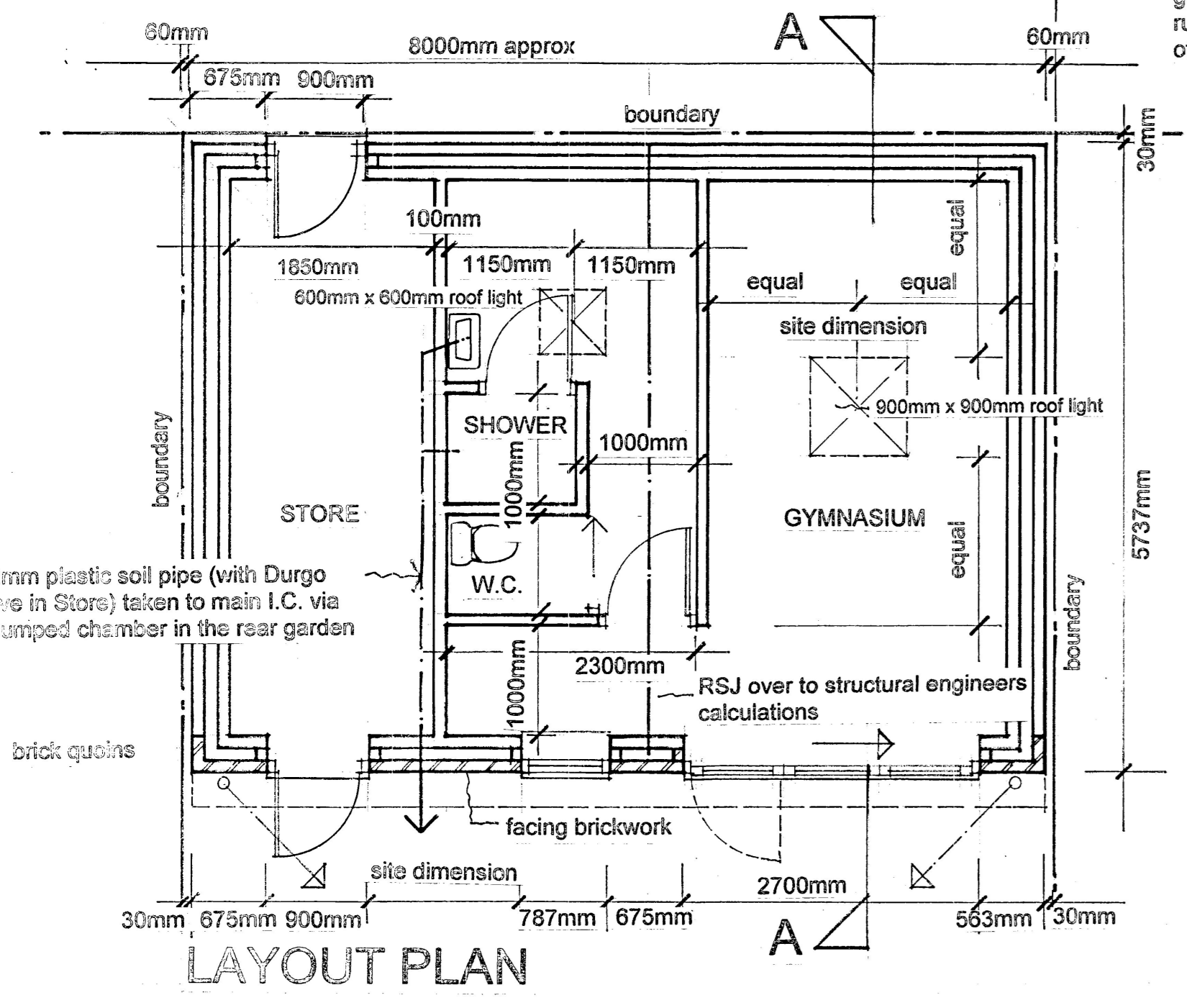
vertical restraint straps (wall plates) - use 'Catnic' VL/1000/100 to each end of truss rafters - use minimum of 4 No 10 x 50mm plated wood screw fixings into the blockwork with one fixing within 150mm from bottom of strap - (2 fixings into the truss timber), straps to be placed at maximum 1800mm centres.

vertical restraint straps (trusses) - use 'Catnic' VL/1000/100 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

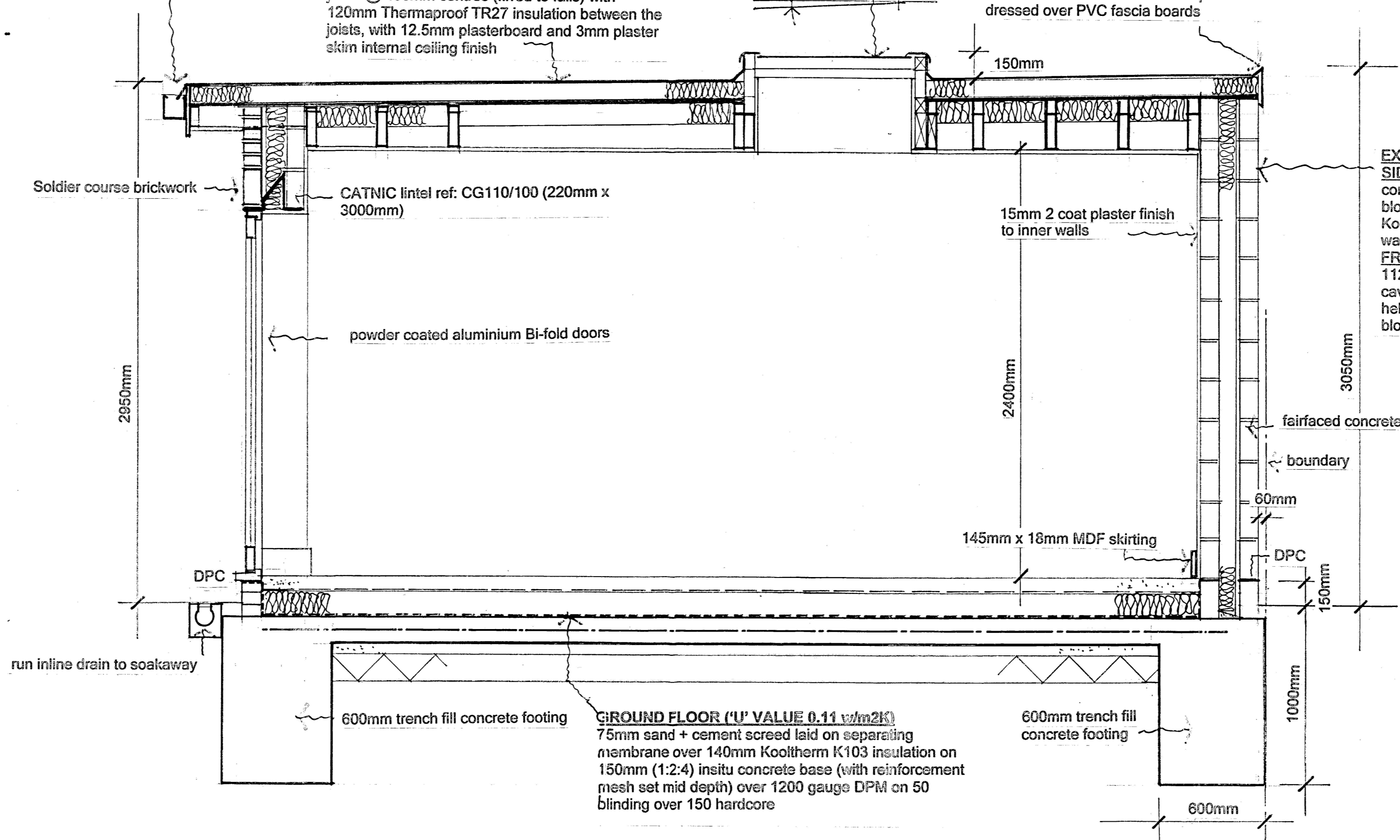
horizontal restraint straps - use 'Catnic' HL/1000/100 at max 1500mm centres where joint run parallel to the external wall - use 10 x 50mm plated wood screw fixings to each joist with 2 fixings using same to blockwork

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

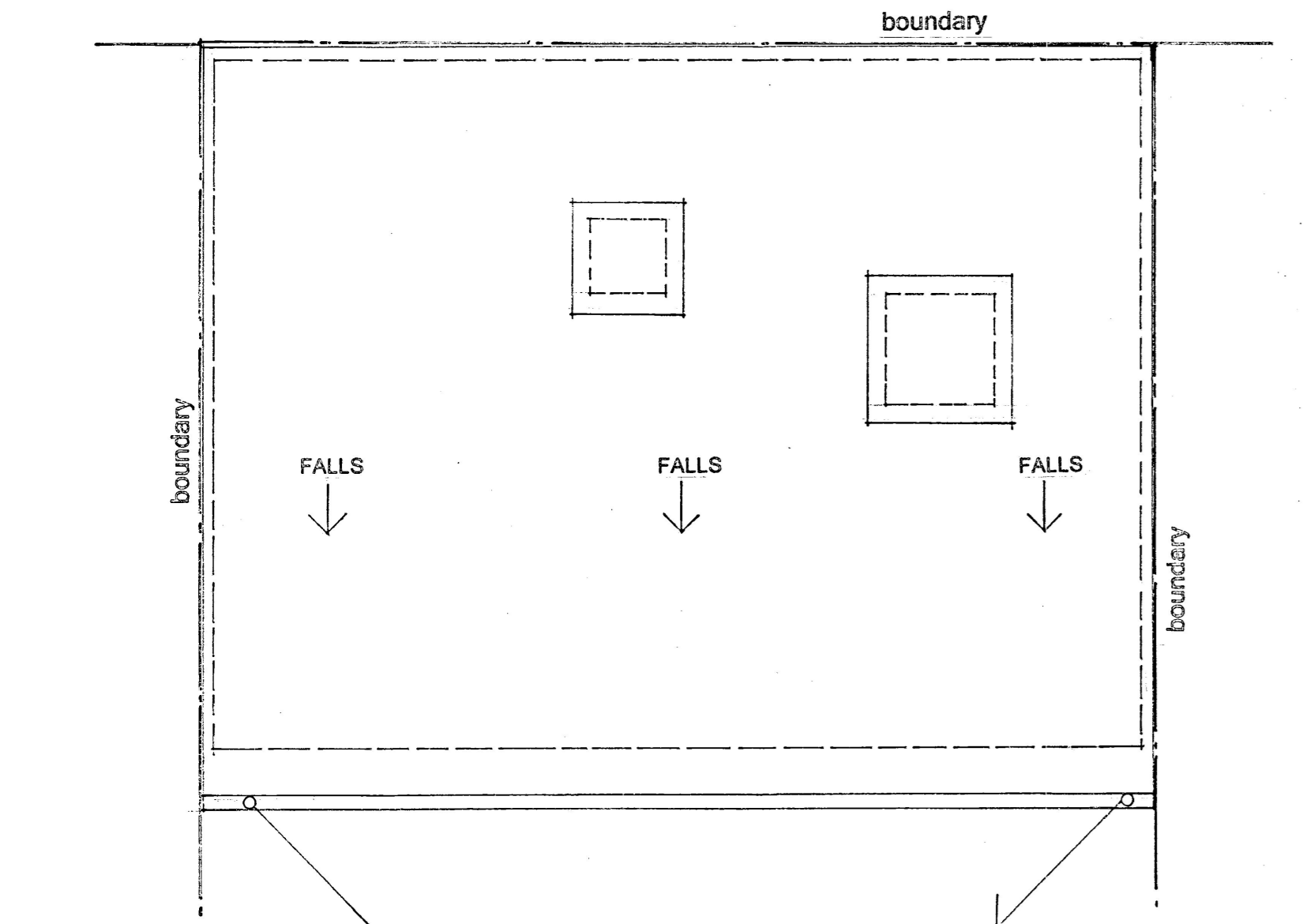
wall connectors - use 'Catnic' stainless steel Stronghold Wall connectors Ref: SHWC and connector wall ties at junctions of new and existing walls - install wall ties every third brick course and secure connectors at approx every 1.0m using stainless steel coach screws and as directed by specialist suppliers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



LAYOUT PLAN

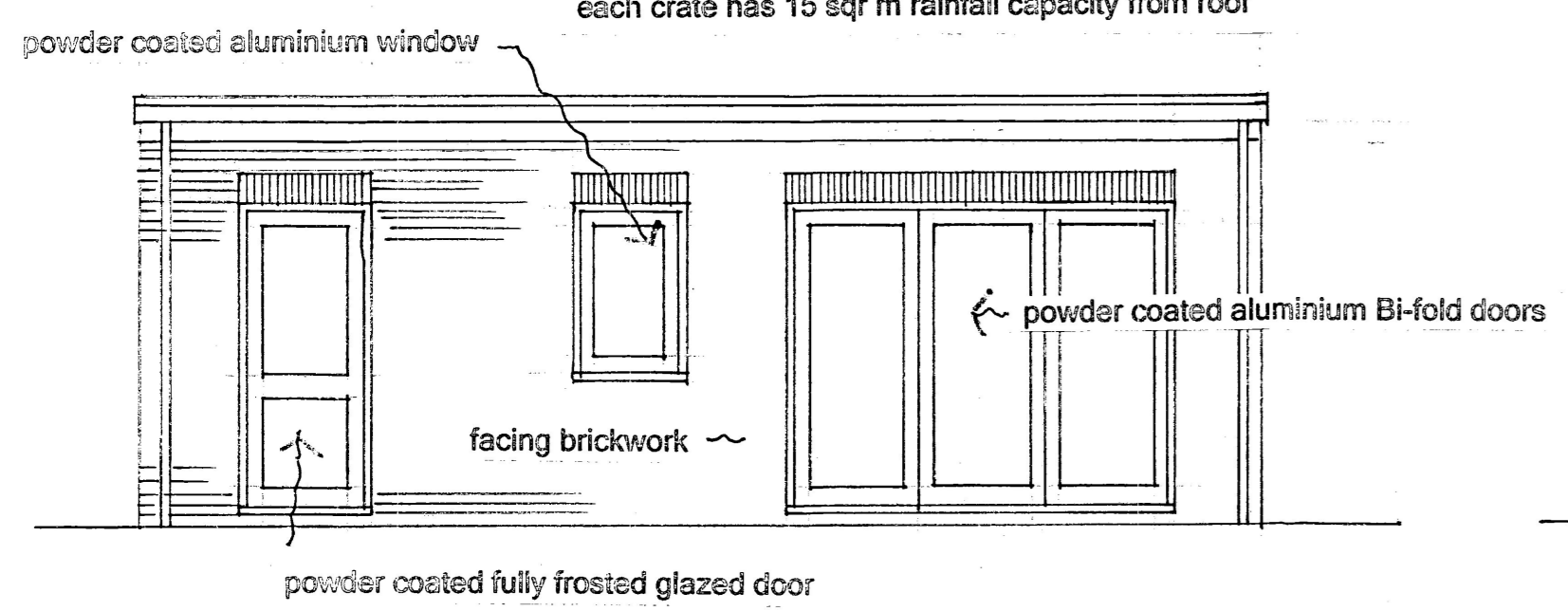


SECTION A-A

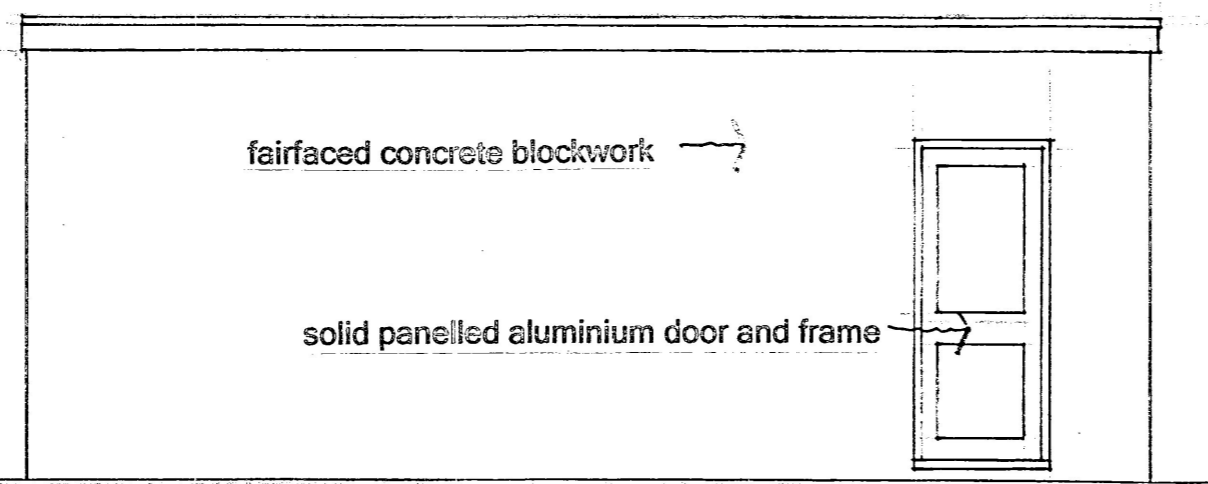


ROOF PLAN

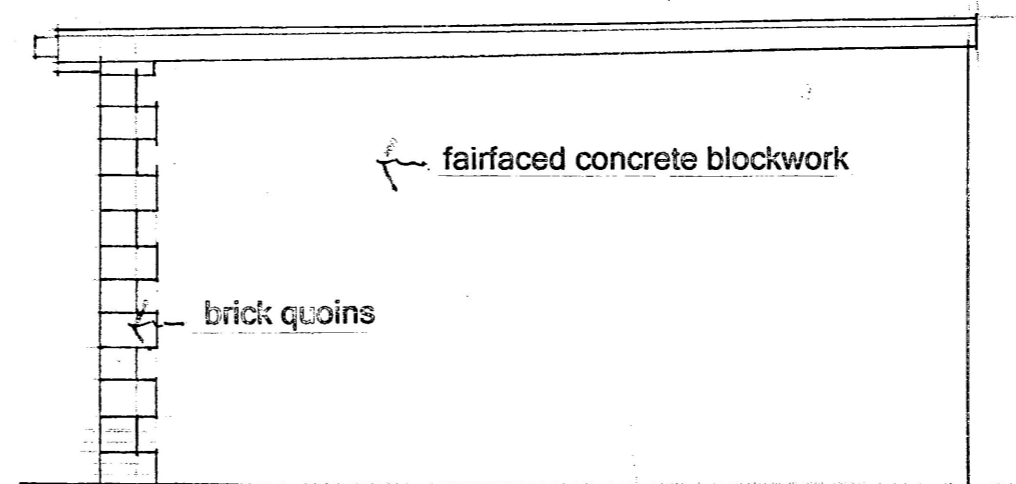
SOAKAWAY - Supply and install plastic soakaway crates (each crate is 1.2m x 0.6m x 0.42m depth) (Brett Martin or similar), 3 crates wide in a single pit and enclose with non woven 'Gestextile' material sealed with waterproof Gaffa tape at joints (to cope with a capacity of 45 sqm of surface water) -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



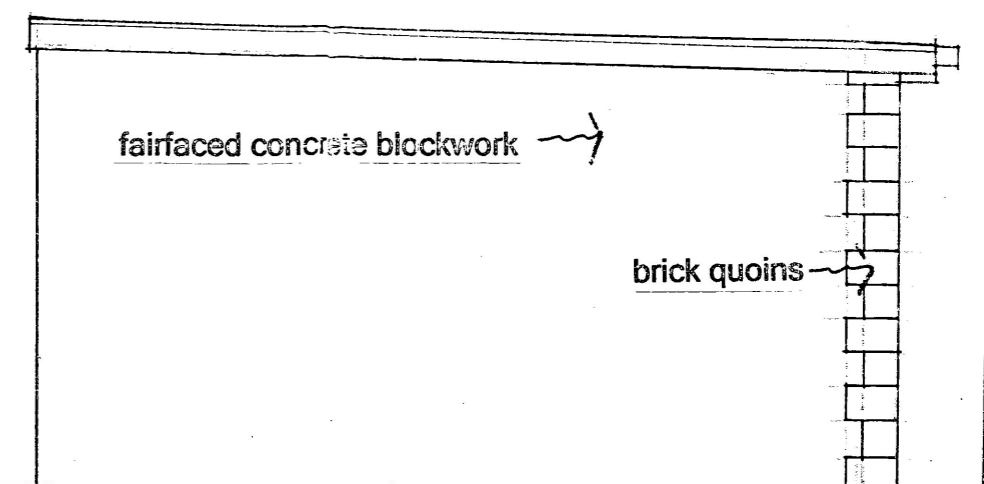
FRONT ELEVATION



REAR ELEVATION



SIDE ELEVATION (north)



SIDE ELEVATION (south)

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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