CLASSROOM

CLASSROOM

CLASSROOM

STORE

STORE

STORE

QUIET AREA

RECEPTION

B

C

BOYS TOILETS

BOYS TOILETS

STAFFROOM

OFFICE

STORE

TOILET

STORE

TOILET

STORE

QUIET ROO

CLASSROOM

timber framed external wall to be carefully removed with ex roof supports adequately propped prior to new support beam being inserted

existing rain water pipe

5531

CLASSROOM

4807

ROOF CONSTRUCTION
3no layer built up roofing felt onto18mm thick marine plywood sat onto 50 x 25 battens sat onto 100 x 50 timber joists at 400mm spacing (laid to 5 degree fall).
50 air gap between plywood and insulation to allow cross ventilation. 120mm thick celotex FR5000 between joists with 37.5mm thick celotex PL4000 insulated plasterboard on 38 x 20 treated cross battens to roof joists.
min'U' value of 0.2wm2k.
roof joists sat onto new intermediate beams to structural engineers design
roof to be laid to fall back towards existing roof with surface water collected within lead lined valley gutter before discharging into existing rain water pipe

new beams across to support roof structure (see structural engineers design)

WALL CONSTRUCTION
new walls to be constructed using 100 x 50 softwood treated studs at 400mm spacing sat onto 100 x 50 softwood sole plate bolted into new cavity wall
external face to be treated timber panelling to match existing onto 50 x 25 treated battens onto breather membrane on 12 wbp plywood fixed to timber frame.
100 thick celotex FR5000 set within framework with 37.5 thick celotex insulated plasterboard to inner face of framework min 'U' value 0.3w/m2k
walls up to floor level to be in cavity wall construction with facing bricks used where exposed, 100mm cavity filled up to dpc level with weak mix concrete. dpc min 150 above external ground level.
walls built off concrete strip foundation min 600mm wide x 225mm thick set at a minimum depth of 900mm below ground level. subject to ground conditions and approval by building inspector

A

B

C

FLOOR CONSTRUCTION
65mm thick sand cement screed on 150mm thick grade c35/20 concrete slab reinforced WITH A193 FABRIC ON 500 gauge visqueen separating layer on 75mm thick kingspan kooltherm k3 insulation turned up at perimeter ON 1200 GAUGE radon barrier/ dpm on sand blinding on min 150mm HARDCORE FILL on geotextile MEMBRANE TO SUIT ground conditions.

client

project
HIGHER OPENSHAW
COMMUNITY SCHOOL

drawing
PROPOSED PART GROUND FLOOR

drawing no SPK/M11/004 scale 1:100
date JUNE 2012 drawn WILL

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