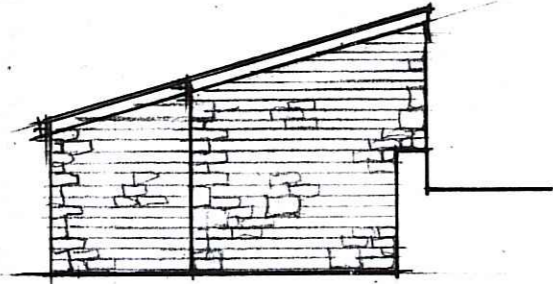
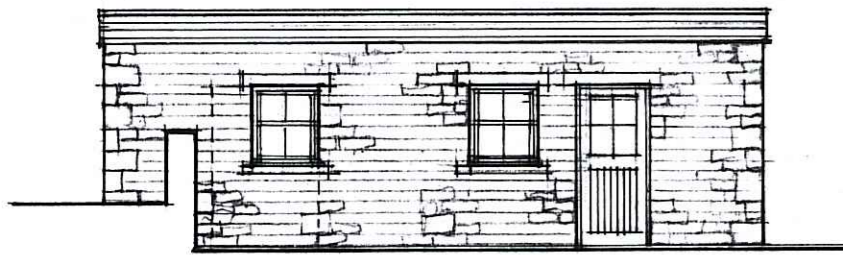


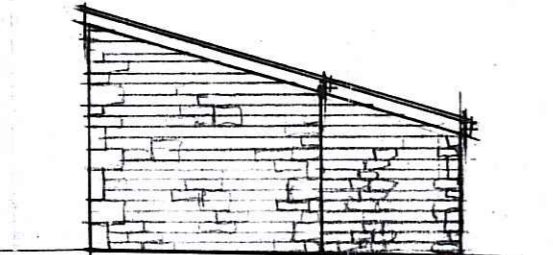
REAR ELEVATION



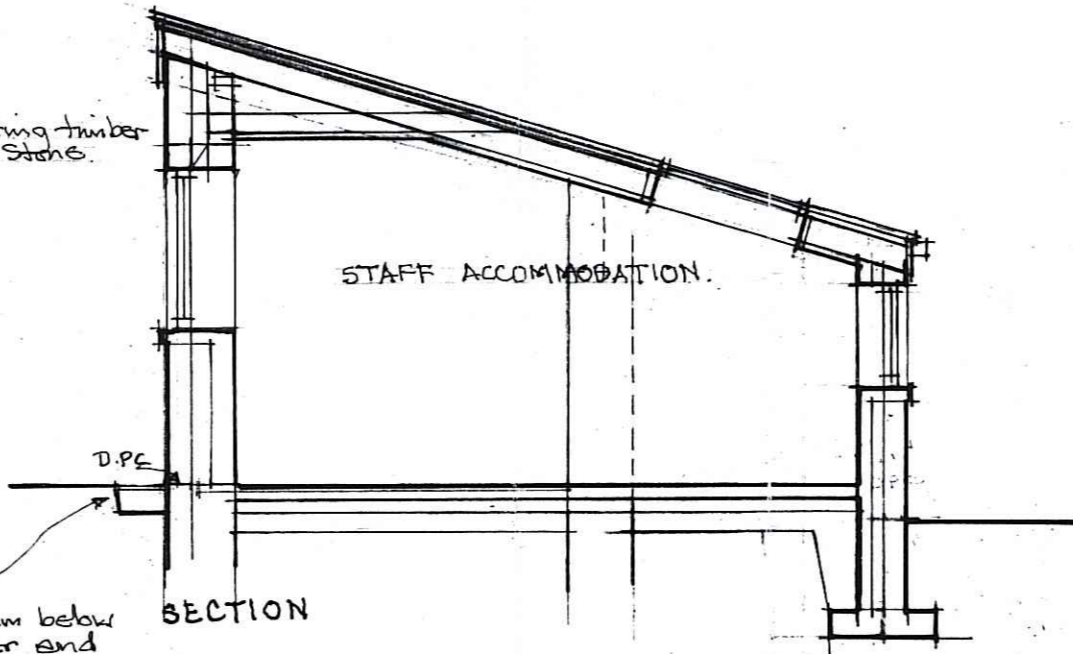
SIDE ELEVATION



FRONT ELEVATION



SIDE ELEVATION



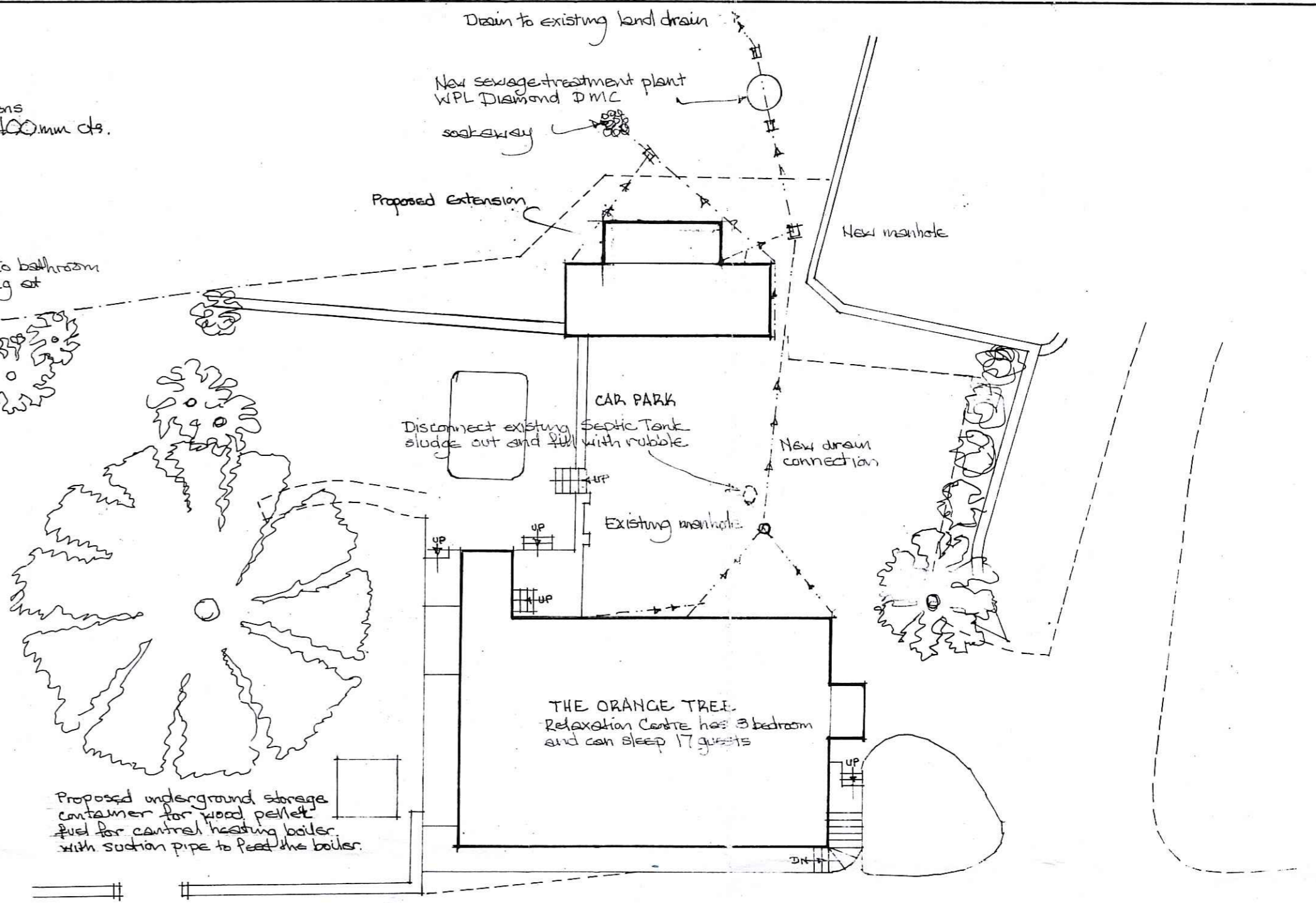
SECTION

**ROOF:** Remove existing roof, raise height of front wall to allow for 16 1/2° pitch. Flat grey interlocking concrete tiles on 50 x 25mm tanalised softwood battens on Tylek or similar breathable felt on 47 x 195mm C24 rafters at 400mm c/s. Insulate with 120mm Kingspan TPI0 between rafters with free flow of air over and a further 37.5mm Kingspan K18 fixed across face. 100mm ggc section gutters, 75mm diam. rainwater pipes.

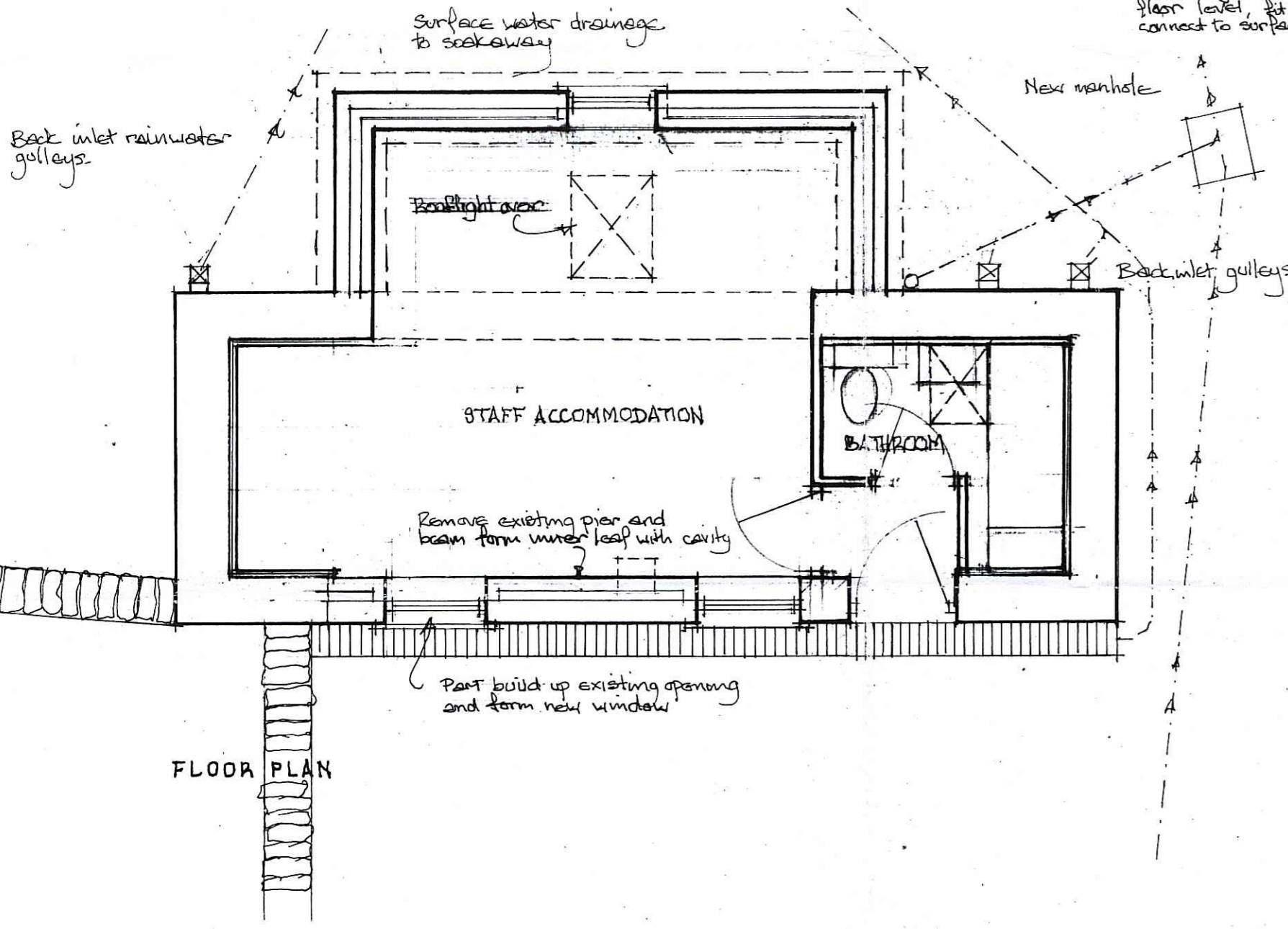
**VENTILATION:** 16mm sealed air gap double glazed windows with soft coated low E glass to provide natural ventilation to both rooms by opening lights equal in size to 1/20th of adjacent floor area. Provide trickle ventilation of 9,000mm² equivalent free area and 2,500mm² to bathroom. Provide bathroom with mechanical extract ventilation capable of extracting at a rate of not less than 13 litres per second. Any glazing to windows within 800mm of floor level and any glazing to doors within 1600mm of floor level to be laminated or toughened glass.

Replace existing timber heads with stone.

Remove ground to 150mm below floor level, fit grill over and connect to surface water drain.



DALESIDE ROAD

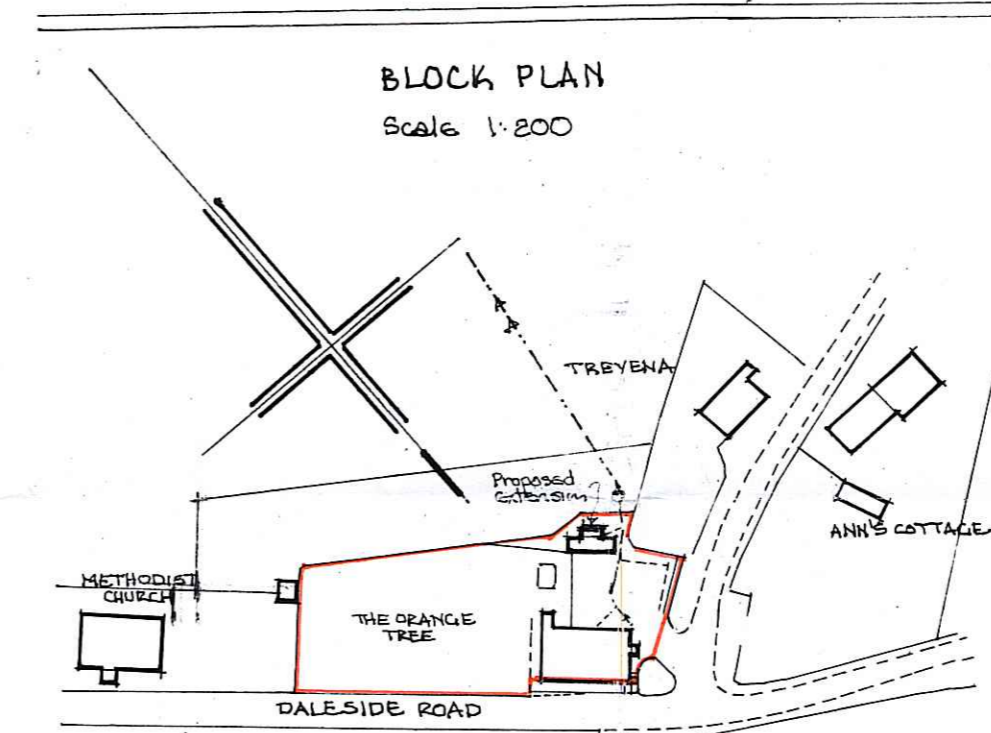


FLOOR PLAN

**WALLS:** New external walls, outer leaf in coursed natural stone to match existing with 100mm Thermalite or similar insulating blockwork inner leaf. Insulate with 50mm Kingspan TWS0 board with a 50mm clear cavity between insulation and outer leaf. Cavity closed around all openings and at eaves and verge by turning in inner leaf with d.p.c. Provide thermal insulation to cavity closures to prevent cold bridging. Stainless steel cavity wall ties B/S 1213 to be built in at 750mm c/s horizontally, 450mm c/s vertically and at 225mm centres vertically at reveals. Cavity to be filled up to ground level with weak mix concrete. Walling below ground level to be trench blocks in 1:3 mortar. Any blockwork below d.p.c.s to be in 7N blocks. 650 x 175 mm concrete strip foundation, depth to suitable bearing strata to Local Authority approval and taken under foundation to retained walls, min. 600mm cover. Retained walls to be rendered internally with water proof render. Provide vertical d.p.m with 'Delta' tanking system or similar. Allow 25mm cavity and line out with 50 x 50mm studding with Kingspan insulation boards between studs. Internal partitions in 75mm studding with two layers of plaster board each side, mass per sheet 10 kg/m² or one layer of plaster board per side with 25mm mineral wool cavity for sound insulation. 150mm artificial stone heads over door and window openings with 140 x 100mm Naylor or similar r.c. lintels over window leaf. External restraint to be provided to external walls at eaves and verge with 30 x 5 x 100mm long galv. ms straps at 2m centres.

**FLOOR:** Timber on wood based boards on 85mm Kingspan TW70 insulation boards or similar on 100mm conc. floor slab on 1200 gauge Visqueen d.p.m on sand blinding well compacted sulphate free hardcore. D.p.m below floor slab to be lapped and jointed with d.p.c in wall and vertical d.p.m.

**ELECTRICAL:** All electrical work required to meet the requirements of Part P (Electrical Safety) must be designed, installed, inspected and tested by a person competent to do so. Electrical switches and sockets to be set not less than 450mm nor more than 1200mm above floor level. Incorporate energy efficient light fittings. Heating with electric radiators generated by solar panels.



BLOCK PLAN  
Scale 1:200

LOCATION PLAN  
Scale 1:1250

**DRAINAGE:** Above ground drainage to be in accordance with EN 12050. 100mm diam connector from W.C. pan into 100 x 100 x 100 mm junction at 50 VP. 40mm diam. waste from bath, 32mm diam. waste from hand wash basin. All fittings to have anti-siphon resealing traps with 75mm deep seals. No connection to be made to soil pipe within 200mm below W.C. connection and vent pipes to terminate 900mm above openings within 3m. Below ground drainage to be in accordance with EN 752. New drainage pipework in 100mm flexible jointed vitrified clay pipes and fittings installed strictly in accordance with manufacturers recommendations. New manholes to be constructed with 150mm conc. base in 215mm class B engineering brick on g.p. inspection chambers set in concrete with medium duty covers. The soil water drainage will be to a new sewage treatment plant WPL Diamond DMC which will also serve the eight bedroom relaxation centre. The proposed treatment plant will serve between 21 and 25 people.

**THE ORANGE TREE RELAXATION CENTRE**  
DALESIDE ROAD, ROSEDALE EAST  
NR PICKERING YO18 8RH  
PROPOSED ALTERATIONS & EXTENSION  
TO PROVIDE STAFF ACCOMMODATION.

SCALE 1:50 & 1:100

APRIL 2018  
Notes added Aug 2015  
Revised Sept. 2016

NYM 26 SEP 2016