

**FOUNDATIONS**

Concrete deep strip 30 N/mm<sup>2</sup> strength sulphate resisting cement. Depth & width provisionally as plan but final depth & width to be agreed on site with building inspector. Drains running through foundations or under new walls to have 150 RC lintel over with 50 clearance. Foundations exceeding 1500 deep to have 75 claymaster to inside face kept 500 from bottom of excavation.

**GROUND FLOOR - GROUND BEARING CONCRETE SLAB**

Min 150 rammed hardcore blinded with 50 sand 1200 PVC DPM lapped to DPC. 100 concrete, 100 Celotex GA4000 insulation slab with sulphate resisting cement below DPC. 150 cavity with 150 Knauf DriTherm-32 full fill insulation. Drylining internally with 12.5 plasterboard dot & dabbed to wall with 3 skim. Wall to achieve U-value of 0.18W/m<sup>2</sup>K. Fill cavity with weak mix concrete to 225mm below DPC. Stainless wall ties 750 horiz, 450 vert, & 300 at reveals. Join to existing building with furfix movement joint. Provide thermalite expansion joint to external leaf on spans in excess of 6m. DPC to BS743 lapped to existing. Close cavity reveals with Thermabat insulated cavity closers. Render externally, 2 x 10 coat 1:1:6 mix + waterproof additive BS5262 to blockwork. Stainless steel bell drip at DPC level. Openings to have lintels as plan. 150 min bearings.

**EXTERNAL CAVITY WALLS WITH RENDERED EXTERNAL FINISH**

Cavity wall of 100 Celcon Standard lightweight block (K=0.15 W/m2K) to inner & outer skin. 1:1:6 mortar mix. Class B eng brick with sulphate resisting cement below DPC. 150 cavity with 150 Knauf DriTherm-32 full fill insulation. Drylining internally with 12.5 plasterboard dot & dabbed to wall with 3 skim. Wall to achieve U-value of 0.18W/m<sup>2</sup>K. Fill cavity with weak mix concrete to 225mm below DPC. Stainless wall ties 750 horiz, 450 vert, & 300 at reveals. Join to existing building with furfix movement joint. Provide thermalite expansion joint to external leaf on spans in excess of 6m. DPC to BS743 lapped to existing. Close cavity reveals with Thermabat insulated cavity closers. Render externally, 2 x 10 coat 1:1:6 mix + waterproof additive BS5262 to blockwork. Stainless steel bell drip at DPC level. Openings to have lintels as plan. 150 min bearings.

**STEELWORK**

Beams to be clad with 12.5 fireline plasterboard + skim to provide 30 min fire rating.

**INTERNAL PARTITIONS**

100x50 stud. 12.5 plasterboard + skim. 1981x762 doorways. Lay DPC under sole. All partitions to contain 100 acoustic quilt.

**VENTILATION**

Windows/doors to match existing & provide vent of min 1/20 floor area & built in adjustable 8000mm<sup>2</sup> min vent.

**DRAINS**

Osma 100 dia pipe laid in 150 pea shingle to fall min 1 in 40. Inspection chambers 150 concrete base. Osma performed IC all to manufacturers spec (only on private non shared drains). Drains shown on drawings are estimated and are to be confirmed on site before any work commences.

**ROOF**

It is assumed that existing roof is cold deck with 150 insulation below 50 vent gap. If so retain existing roof. If cold deck insulation not adequate make up thickness below joists. Expose before any work commences to confirm proposals practical. Report back for instructions if not practicable.

**SURFACE WATER**

Retain existing

**WINDOWS & DOORS**

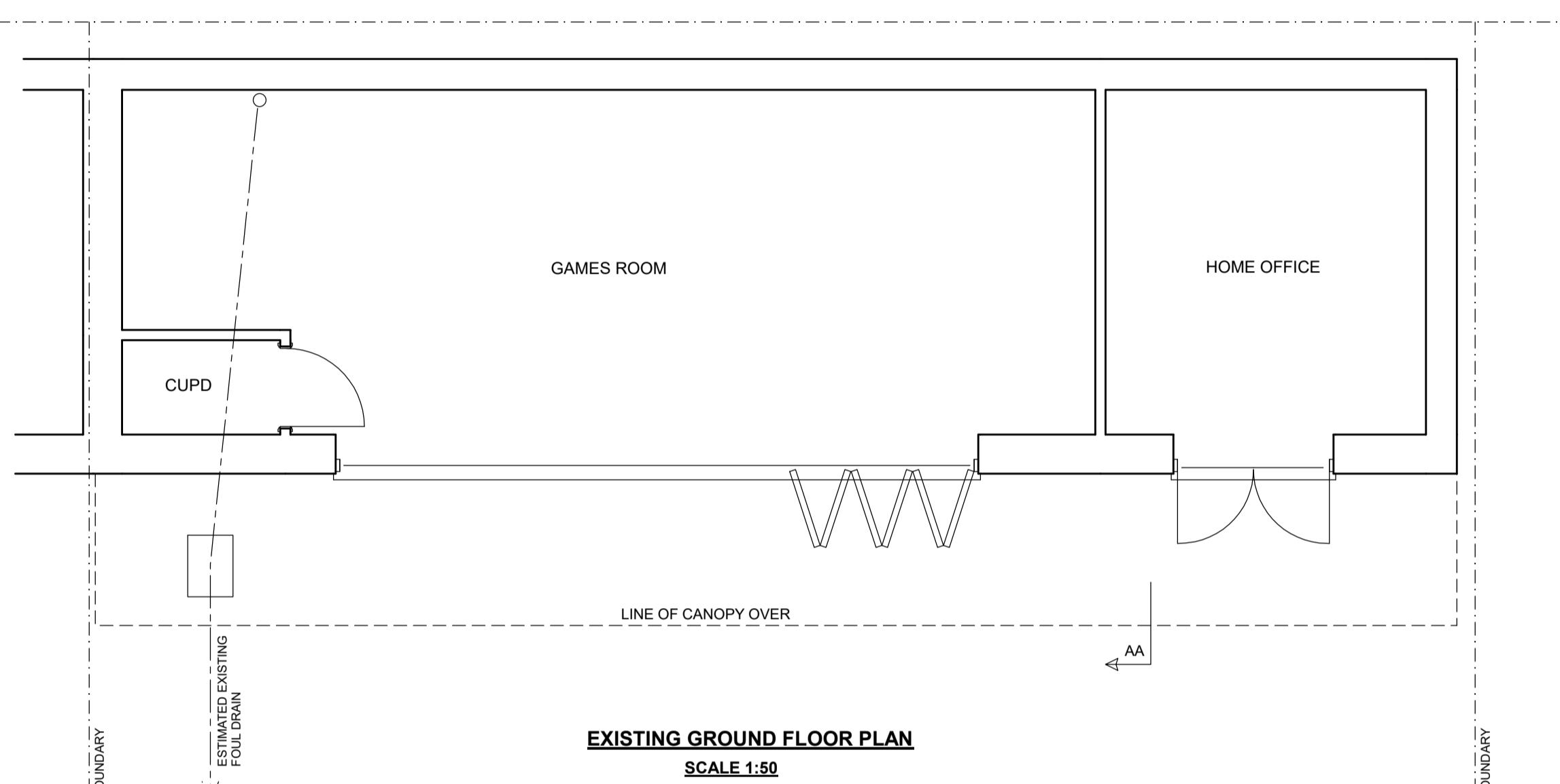
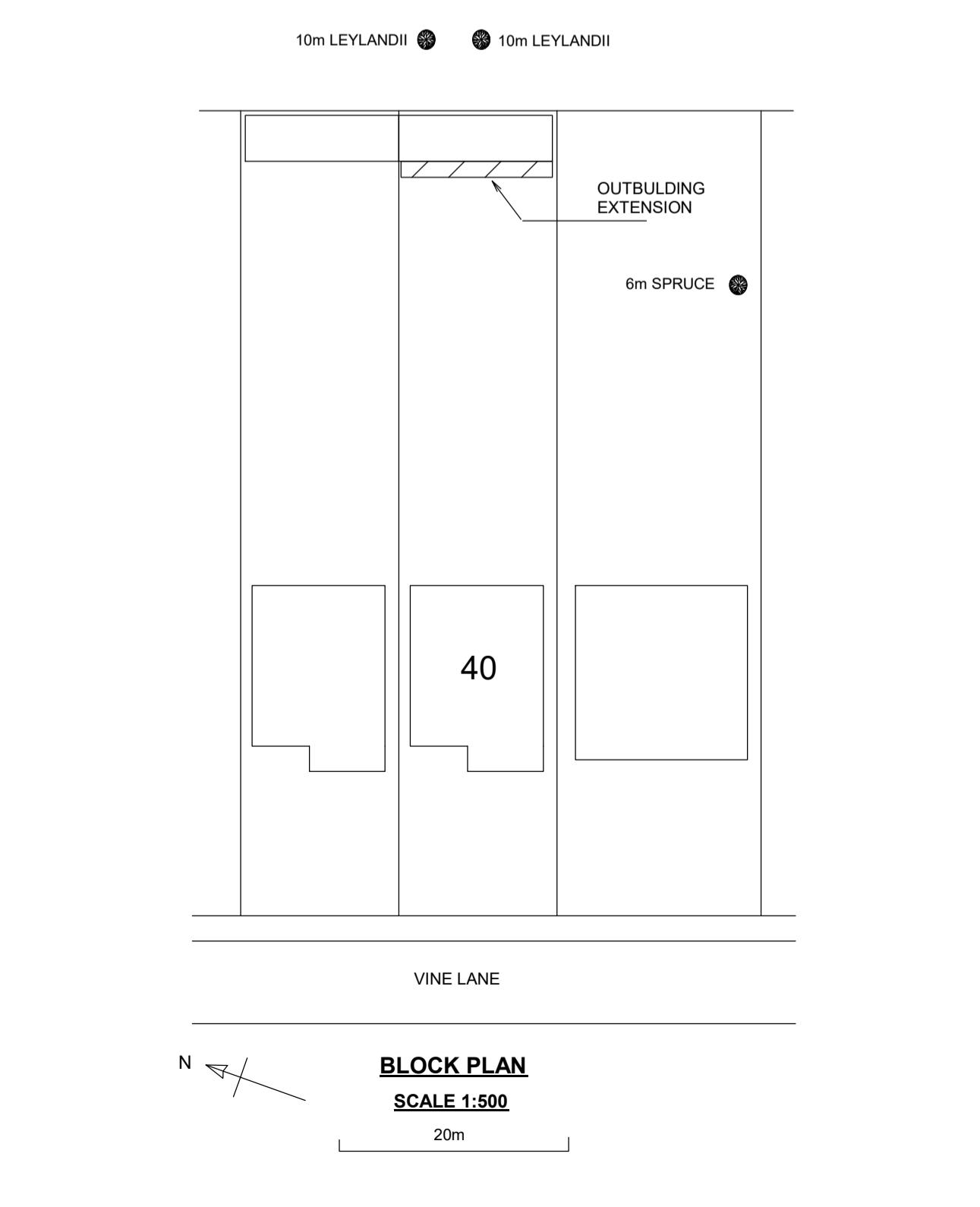
Double glazed with 16 air gap and soft low E coating. Built in 8000mm<sup>2</sup> adjustable vent. Windows & doors to achieve U value of 1.4 w/m<sup>2</sup>K. All glass below 800mm, glass in doors or within 300mm of a door to be toughened safety glass.

**ELECTRICAL WORK**

All electrical work required to meet the requirements of Part P (Electrical Safety). Must be designed, installed, inspected & tested by a person competent to do so. Prior to completion the council should be satisfied the Part P has been complied with. This may require an appropriate BS7671 electrical installation certificate to be issued for the work by a person competent to do so. New light fittings to have LED bulbs. Electrical switches and sockets to be installed between 450mm and 1200mm from floor level where practical.

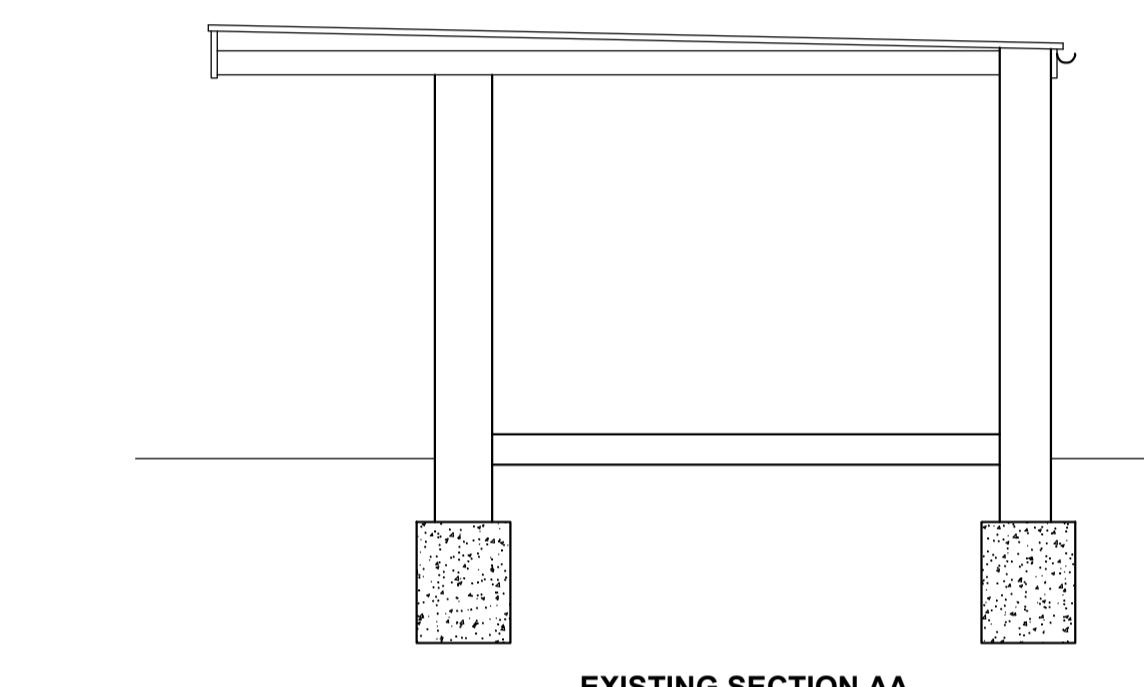
**HEATING**

Electric panel heaters.

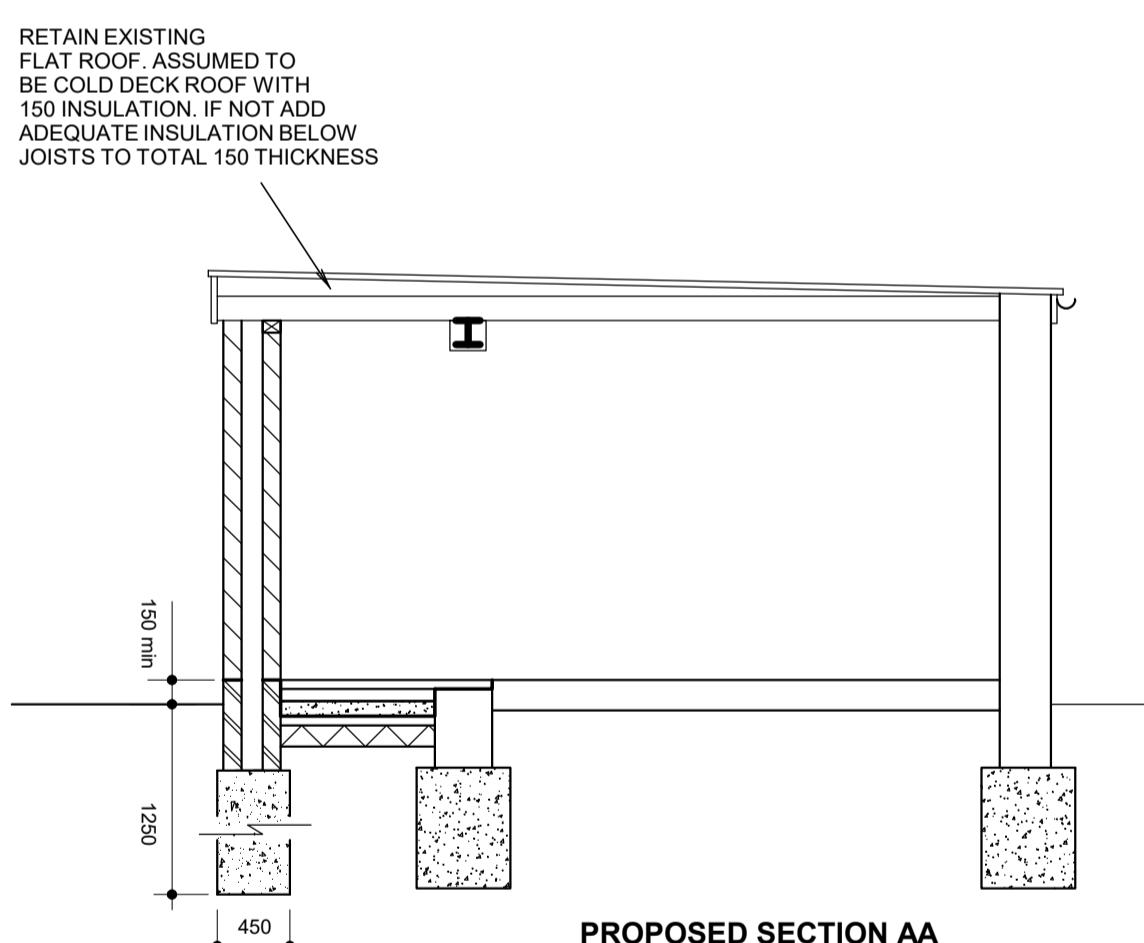


EXISTING GROUND FLOOR PLAN

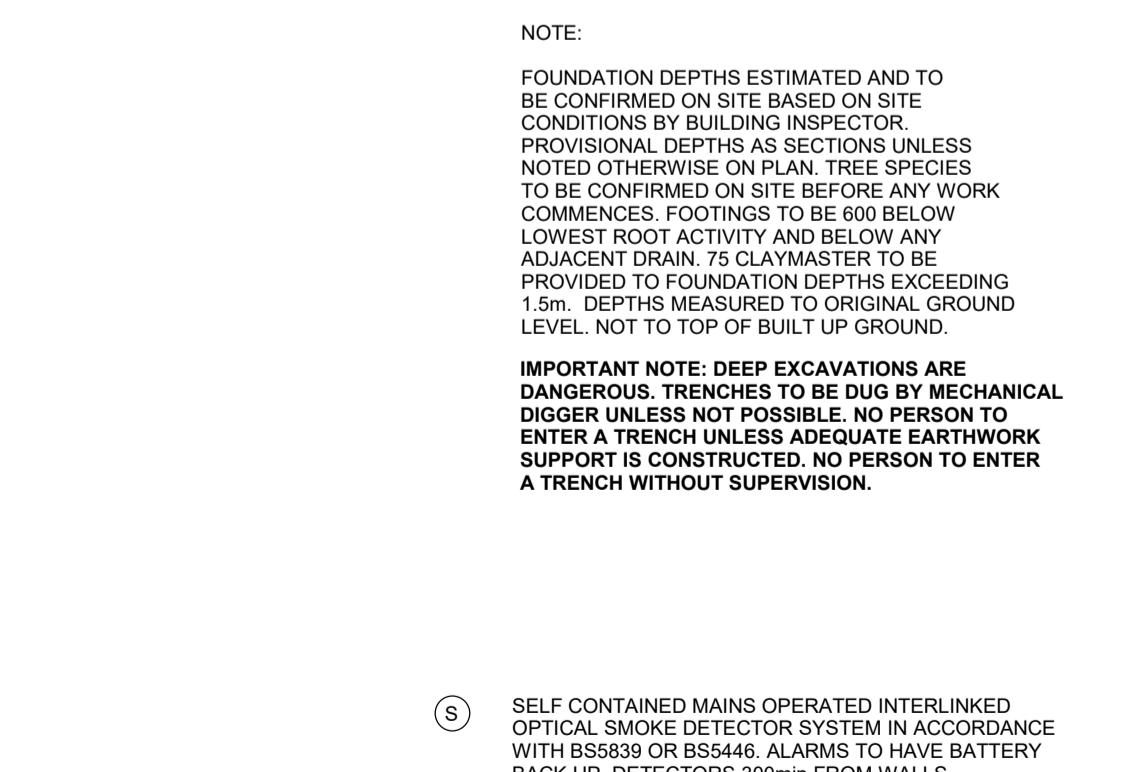
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EXISTING SECTION AA



PROPOSED SECTION AA



PROPOSED GROUND FLOOR PLAN

SCALE 1:50