

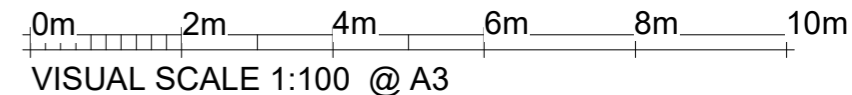
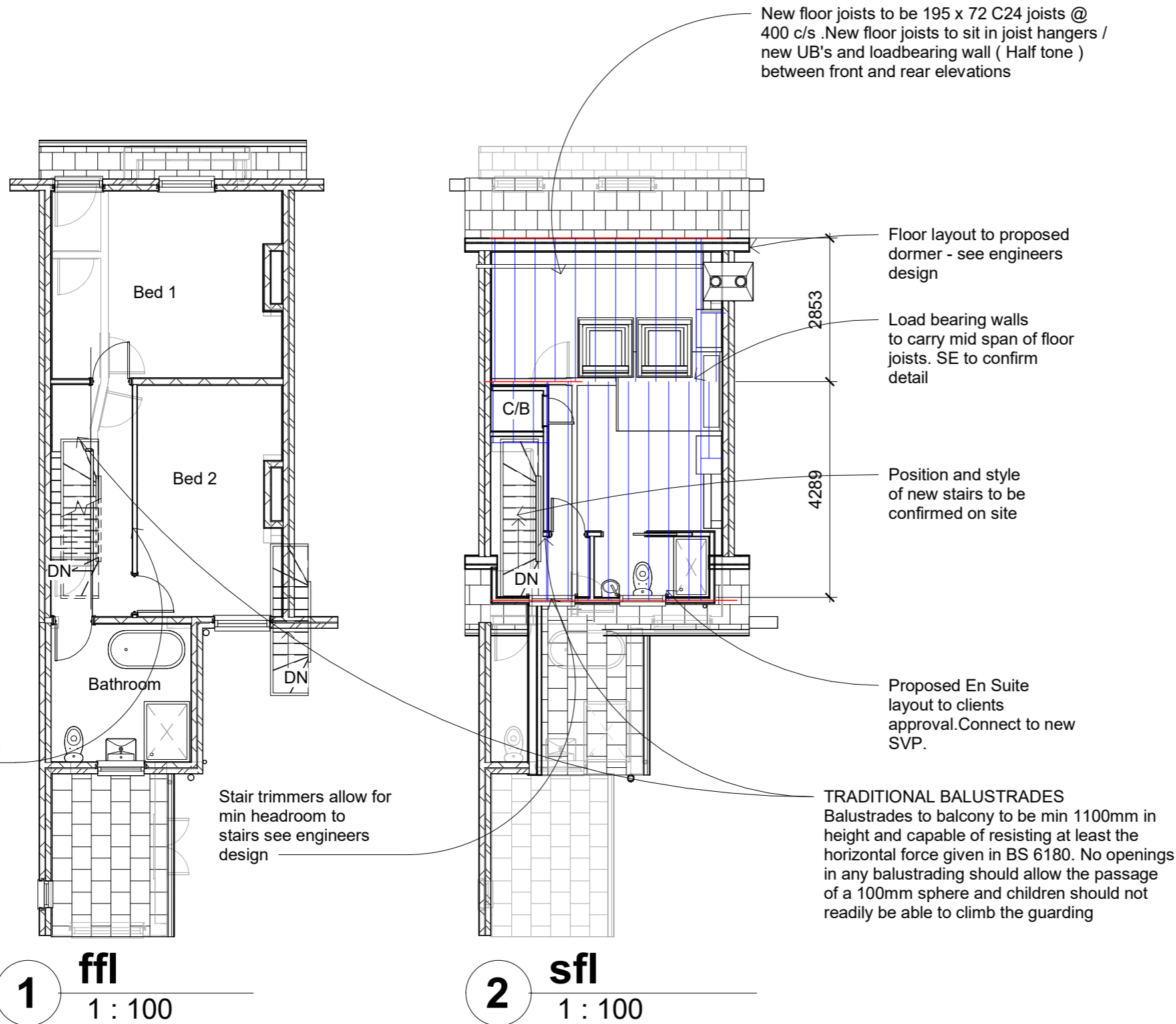
ROOF LIGHT - Approx 900 x 1200 Min U-value of 1.6 W/m²K. Roof-lights to be double glazed with 16mm argon gap and soft low-E glass. Window Energy Rating to be Band C or better. Roof lights to be fitted in accordance with manufacturer's instructions with rafters doubled up to sides and suitable flashings etc. Glazing element to be inner leaf 2 x 3mm laminated float glass and outer leaf to be 4mm toughened glass as per velux technical detail

All dimensions and levels on site to be checked before work commences

DORMER CONSTRUCTION To achieve minimum U Value of 0.18 W/m²K Tiles hung vertically on 25 x 38mm preservative treated battens (vertical counter battens to be provided to ensure vented and drained cavity if required) fixed to breathable membrane (having a vapour resistance of not more than 0.6 MNs/g) and 12mm thick W.B.P external quality plywood sheathing (or other approved).. Ply fixed to treated timber frame studs constructed using: 150mm x 50mm head and sole plates and vertical studs (with noggins) at 400mm centres , Dormer posts either side of opening to be 3 No 150 x 50 C24 timber studs bolted / cramped together @ 300 c/s using M10 GRD 8.8 bolts (or similar approved detail) Dormer lintel 3 NO 150 x 50 C24 bolted together @600 C/S using M10 GRD 8.8 bolts. Insulation to be 120mm Celotex XR4000 between studs with 25mm Celotex TB4000 over. Provide vcl and 12.5mm plasterboard over internal face of insulation. Finish with 3mm skim coat of finishing plaster. All junctions to have water tight construction, seal all perimeter joints with tape internally and with silicon sealant externally. Dormer walls built off existing masonry walls to have galvanised mild steel straps placed at 900 centres. Dormer cheeks within 1m of the boundary to be lined externally with 12.5mm Supalux and 12.5mm Gyproc FireLine board internally to achieve 1/2 hour fire resistance from both sides

ALTERNATIVE INSULATION (EXISTING PITCHED ROOF)
Existing roof to achieve U-value 0.15 W/m²K The existing roof condition must be checked and be free from defects as required by the Building Control Officer. Any defective coverings or felt to be replaced in accordance with manufacturer's details. Roof construction - 47 x 100mm Grade C24 rafters (Existing) at max 400mm centres max span 2.12m. Insulation to be Partial refurbishment / conversion with TRISO - SUPER 10+ and 37.5mm insulated plasterboard = 0.15W/m²K U-value . Maintain a 50mm air gap above insulation to ventilate roof. Provide opening at eaves level at least equal to continuous strip 25mm wide and opening at ridge equal to continuous strip 5mm wide to promote ventilation Fix 37.5 mm INSULATED plasterboard (joints staggered) and 5mm skim coat of finishing plaster to the underside of all ceilings using galvanized plasterboard dry wall screws. Confirm on site and approved by BC officer

INTERMEDIATE FLOORS Intermediate floor to be 25mm t&g flooring grade chipboard or floorboards laid on 195 x 72 C24 joists at 400mm ctrs (max span 4.4). Lay 100mm Rockwool mineral fibre quilt insulation min 10kg/m³ or equivalent between floor joists. Ceiling to be 12.5 FireLine plasterboard with skim plaster set and finish. Joist spans over 2.5m to be strutted at mid span using 38 x 38mm herringbone strutting or 38mm solid strutting (at least 2/3 of joist depth). In areas such as kitchens, utility rooms and bathrooms, flooring to be moisture resistant grade in accordance with BS7331:1990. Identification marking must be laid upper most to allow easy identification. Provide lateral restraint where joists run parallel to walls, floors are to be strapped to walls with 1000mm x 30mm x 5mm galvanised mild steel straps or other approved in compliance with BS EN 845-1 at max 2.0m centres, straps to be taken across minimum 3 no. joists. Straps to be built into walls. Provide 38mm wide x ¾ depth solid noggins between joists at strap position



Planning
Building Control
Structural Calculations
Project Management

PROJECT Proposed Dormer Extension To Rear Of 198 Manchester Rd, Westhoughton, Bolton, BL5 3LA	CLIENT R Murphy
SHEET Proposed Floor Layouts	Date 15/11/2023 Project number NDH/RM/10/23 Scale (@ A3) 1 : 100 Drawn by Neil DRAWING NUMBER 3 Of 7 Checked by Checker REV

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