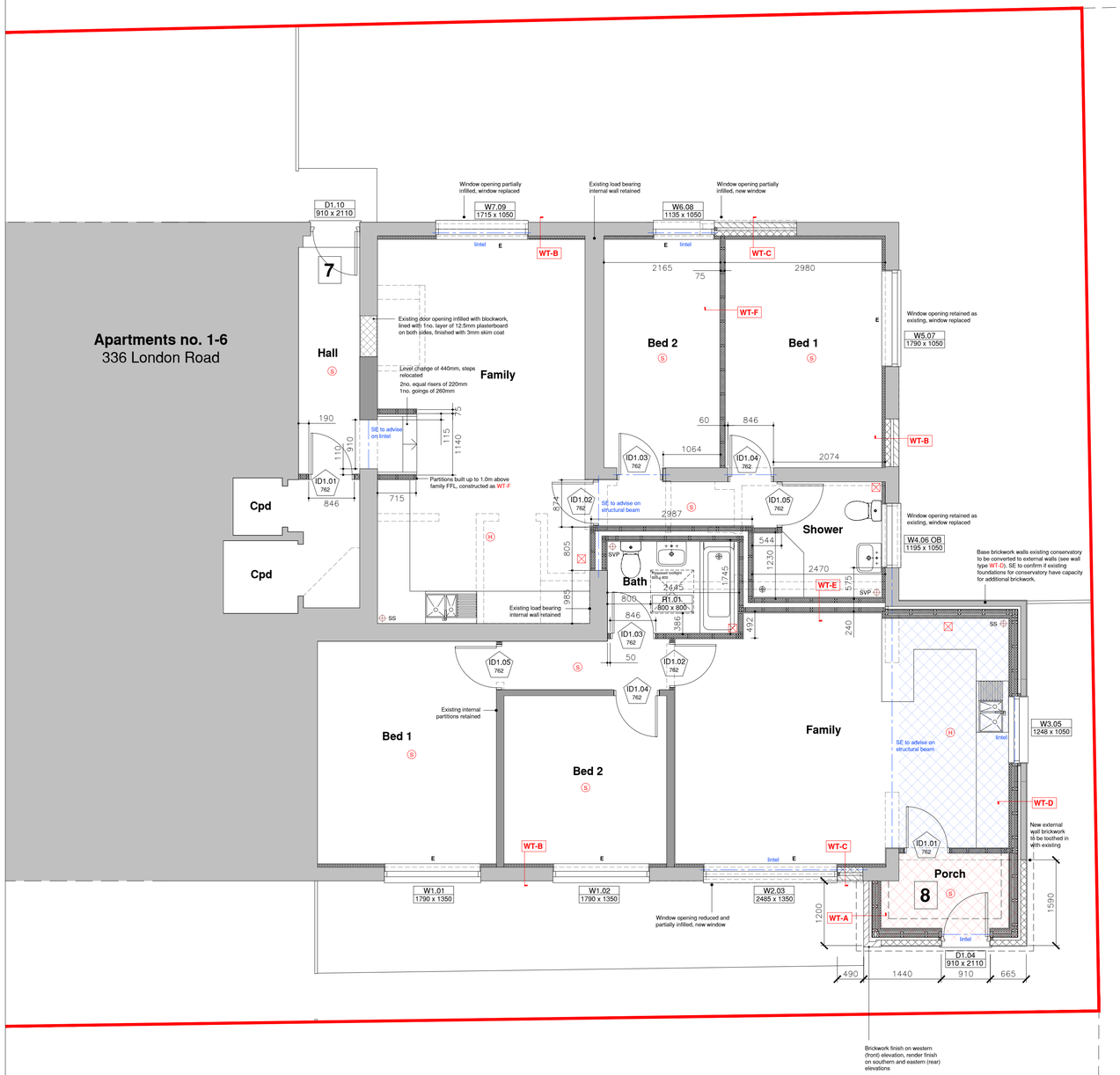

Ground Floor Plan
Proposed at 1:50

Existing external wall
Fabric built-up assumed as:

- 102.5mm facing brickwork
- Cavity thickness unknown but assumed as 30mm
- 100mm concrete blockwork
- 1no. layer of 15mm plasterboard on dabs

WT-A
New porch external wall construction

- 102.5mm facing brickwork in stretcher bond to match existing
- Where noted on floor plan, facing brickwork to be replaced with concrete blockwork above DPC level.
- Where noted on floor plan, 15mm render coated over blockwork above DPC level, colour and product to client specification.
- 50mm cavity.
- Breather Membrane.
- 9mm OSB sheating board
- 100 x 47mm C16 treated timber studwork laid at 450mm ctrs
- 1no. layer of 70mm Celotex GA4000 (or equivalent) fitted between studs, forming min. residual cavity of 25mm
- 1no. layer of 50mm Celotex GA4000 (or equivalent) installed with joints taped.
- Vapour Control Layer.
- 1no. layer of 12.5mm plasterboard with tape and joint finish.

External wall to achieve U-Value of 0.17W/m^{2}K

WT-B
Insulating existing external wall construction

- Existing external wall fabric build up assumed as above
- 1no. layer of 50mm insulation (Celotex GA4000 or equivalent) internally
- 1no. layer of 12.5mm plasterboard on plaster / adhesive dabs with tape and joint finish.

External wall to achieve U-Value of 0.29W/m^{2}K

WT-C
Infill existing external wall construction

- 1no. layer of 102.5mm facing brickwork to match existing. Matching brickwork to be toothed in to existing.
- Nominal cavity to match existing.
- 1no. layer of 100mm concrete blockwork.
- 1no. layer of 50mm insulation (Celotex GA4000 or equivalent) internally.
- 1no. layer of 12.5mm plasterboard on plaster / adhesive dabs with tape and joint finish.

External wall to achieve U-Value of 0.29W/m^{2}K

WT-D
Existing conservatory wall conversion

- Existing external skin of 102.5mm brickwork retained, where existing opening infilled new brickwork is to be toothed in with and match existing.
- 15mm render coated over blockwork above DPC level, colour and product to client specification.
- 100mm concrete blockwork to be built on top of existing brickwork skin.
- 50mm cavity.
- Breather Membrane.
- 1no. layer of 9mm OSB sheathing board.
- 100 x 47mm C16 treated timber studwork laid at 450mm ctrs.
- 1no. layer of 70mm Celotex GA4000 (or equivalent) fitted between studs, forming min. residual cavity of 25mm.
- 1no. layer of 40mm Celotex GA4000, with joints taped.
- Vapour Control Layer.
- 1no. layer of 12.5mm plasterboard on plaster / adhesive dabs with tape and joint finish.

External wall to achieve U-Value of 0.18W/m^{2}K
(Min. U-Value of 0.18W/m^{2}K as per Approved Document L1a table 4.2)

WT-E
Internal non-structural party wall construction
Designed to Robust Detail E-WT-1

- 2no. layers of 12.5mm plasterboard (staggered joints) with skim coat plaster finish
- Min. 75 x 38mm C16 treated timber studwork laid at 450mm ctrs
- 60mm layer of Isover APR1200 (or equal mineral wool insulation) fitted between studs
- Min. 50mm cavity between studs (min. 240mm between inner faces of plasterboard linings)
- 60mm layer of Isover APR1200 (or equal mineral wool insulation) fitted between studs
- Min. 75 x 38mm C16 treated timber studwork laid at 450mm ctrs
- 2no. layers of 12.5mm plasterboard (staggered joints) with tape and joint finish.

WT-F
Internal non-structural partition construction

- 1no. layer of 12.5mm plasterboard with tape and joint finish.
- Min. 75 x 38mm C16 treated timber studwork laid at 450mm ctrs
- 60mm layer of Isover APR1200 (or equal mineral wool insulation) provided between studs
- 1no. layer of 12.5mm plasterboard with tape and joint finish.

Bathrooms

- Plasterboard to be replaced with 15mm moisture resistant boards on side of bathroom.
- Areas for fixings / wall mounting units or equipment to be provided with 12mm plywood patressing between stud, Class 3 plywood to be provided behind moisture resistant boards.

Existing Openings / New Windows

- See window schedule for opening sizes, manufacturer to measure openings on site prior to manufacturing.
- Some existing openings to be modified (some partially infilled), see SE calculations for lintel specifications.
- All existing windows to be replaced and achieve minimum U-Value of 1.4W/m^{2}K
- Perimeters of all new and modified window/door openings in existing masonry construction to be provided with 30 minute fire rated cavity closers.

E
Egress Windows

- All emergency escape windows are marked with an 'E' on drawings and on the Door & Window Schedule.

RT-A
New Warm Flat Roof
(to be built above conservatory conversion and new build extension)
Fabric build-up assumed as

- Single ply membrane fully bonded, all joints to be fully lapped and sealed to manufacturer's recommendations.
- 150mm PIR insulation board (achieving 0.022W/mK) tightly butt together.
- Vapour Control Layer installed in accordance with manufacturer's recommendations.
- 18mm Class 3 OSB roof deck laid to 1:40 falls on C16 treted timber firrings min. 25mm depth.
- 50 x 150mm C24 treated timber roof joists laid at 400mm centres to SE specifications.
- 1no. layer of 12.5mm plasterboard tightly butt together with tape and joint finish.

To achieve U-Value of 0.15W/m^{2}K

GT-A
New ground floor for Porch extension
Proposed ground floor area shown in red cross hatch on floor plan drawing.

Fabric build-up assumed as

- 75mm sand/cement screed.
- 500g polythene separating layer turned up at perimeter.
- 100mm PIR insulation boards (0.022W/mK) tightly butt together, 25mm thick insulated upstand formed to full perimeter of floor.
- 1200g DPM turned up at perimeter and fully lapped and jointed with DPC.
- 150mm ground bearing slab with steel reinforcing mesh 40mm below top of slab, to SE design and specification.

To achieve U-Value of 0.16W/m^{2}K

GT-B
Existing Conservatory Ground Floor Upgrade
Shown in blue cross hatch on floor plan drawing.

Existing slab as assumed, SE to inspect/measure existing slab on site and advise.

- 75mm sand/cement screed.
- 500g polythene separating layer turned up at perimeter.
- 100mm PIR insulation boards (0.022W/mK) tightly butt together, 25mm thick insulated upstand formed to full perimeter of floor.
- 1200g DPM turned up at perimeter and fully lapped and jointed with DPC.
- Existing slab as assumed, as confirmed by SE.

To achieve U-Value of 0.16W/m^{2}K

1:50 @ A1
0 1m 2m 3m 4m 5m

notes

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all dimensions to be checked on site prior to commencement of construction works and the architect notified of any discrepancy.

figured dimensions are to be used in preference to scaled dimensions.

no deviation from this drawing will be permitted without prior consent of the architect.

all drawings are prepared subject to a full measured and structural survey of the buildings and site.

all structural work is subject to the appointment of a structural engineer to confirm and agree the structural proposals.

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health & safety:
exceptional risks involving specific methods of construction or exceptional maintenance issues can be found within the designers risk assessment.

scale width 50 mm @ a1 - 25 mm @ a3

revision	notes	date	drawn	checked

client

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project	366 London Road Waterlooville PO7 7SY
detail	Proposed Ground Floor Plan
drawn	MP
checked	HM
date	July '25
status	Bregs
a1 scale	1:50
a3 scale	1:100
rev	28190-WD110