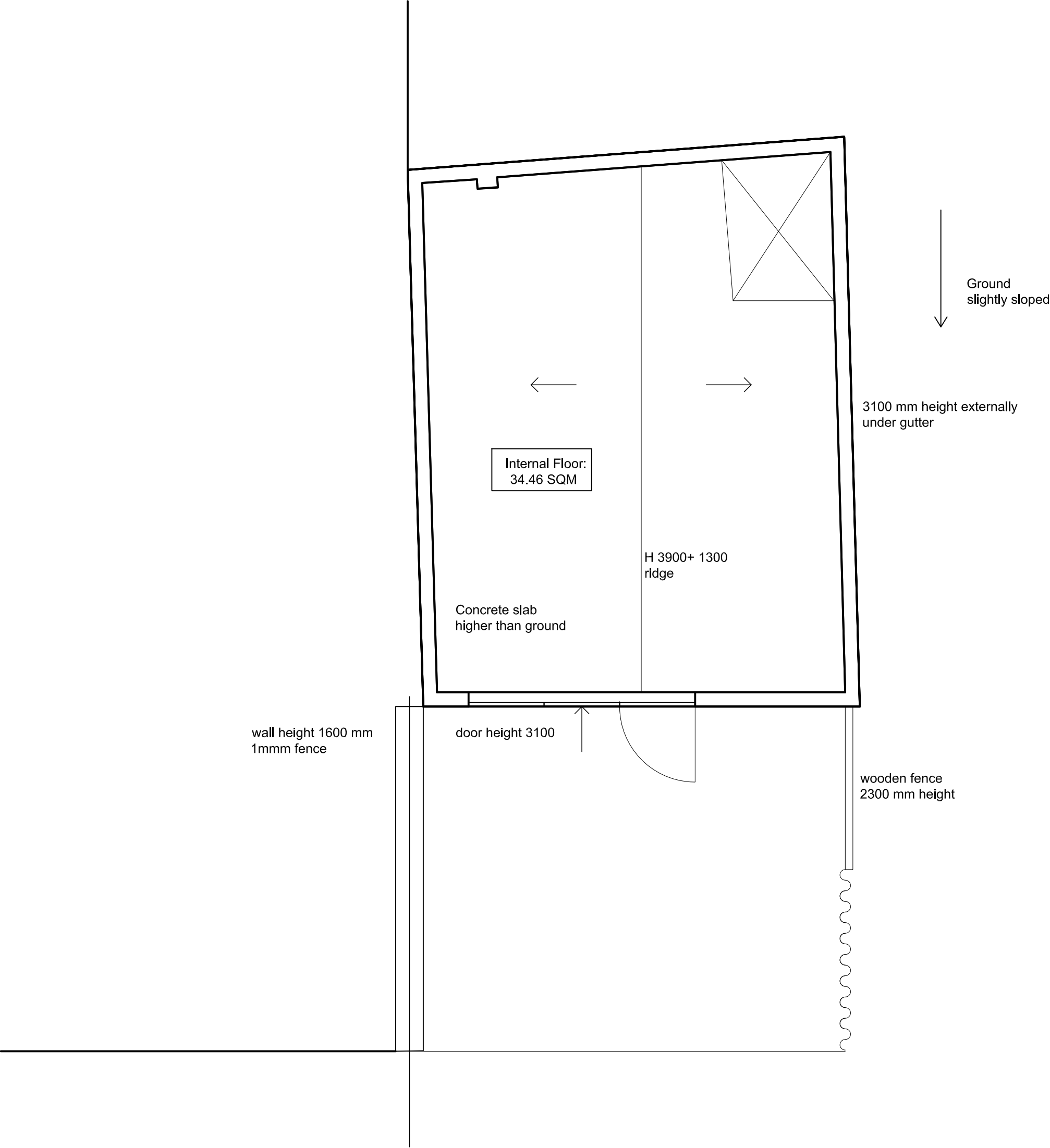


01 | EXISTING AND PROPOSED SET

- 01_EX Site Plan
- 02_PR Ground Floor
- 03_PR Lower ground floor
- 04_PR First Floor
- 05_PR Second floor
- 06_PR Roof plan
- 07_Existing Scene view, Front elevation
- 08_Proposed Scene view, Front elevation
- 09_Existing Front elevation
- 10_Proposed Front elevation
- 11_Existing Side elevation
- 12_Proposed Side elevation
- 13_Existing Rear elevation
- 14_Proposed Rear elevation
- 15_Existing & Proposed Section AA
- 16_Waterproofing System for the basement
- 17_Reducing Water Use and Risk of Flooding
- 18_Sedum Roof and Permeable Paving



CLIENT

St Stephen Avenue 124 LTD

ADDRESS

124aSt Stephens Avenue
W12 8JD

PROJECT

Planning permission

DRAWING NUMBER

EXISTING GROUND FLOOR

SCALE

1:50

0 0.50 1.00

COMPANY

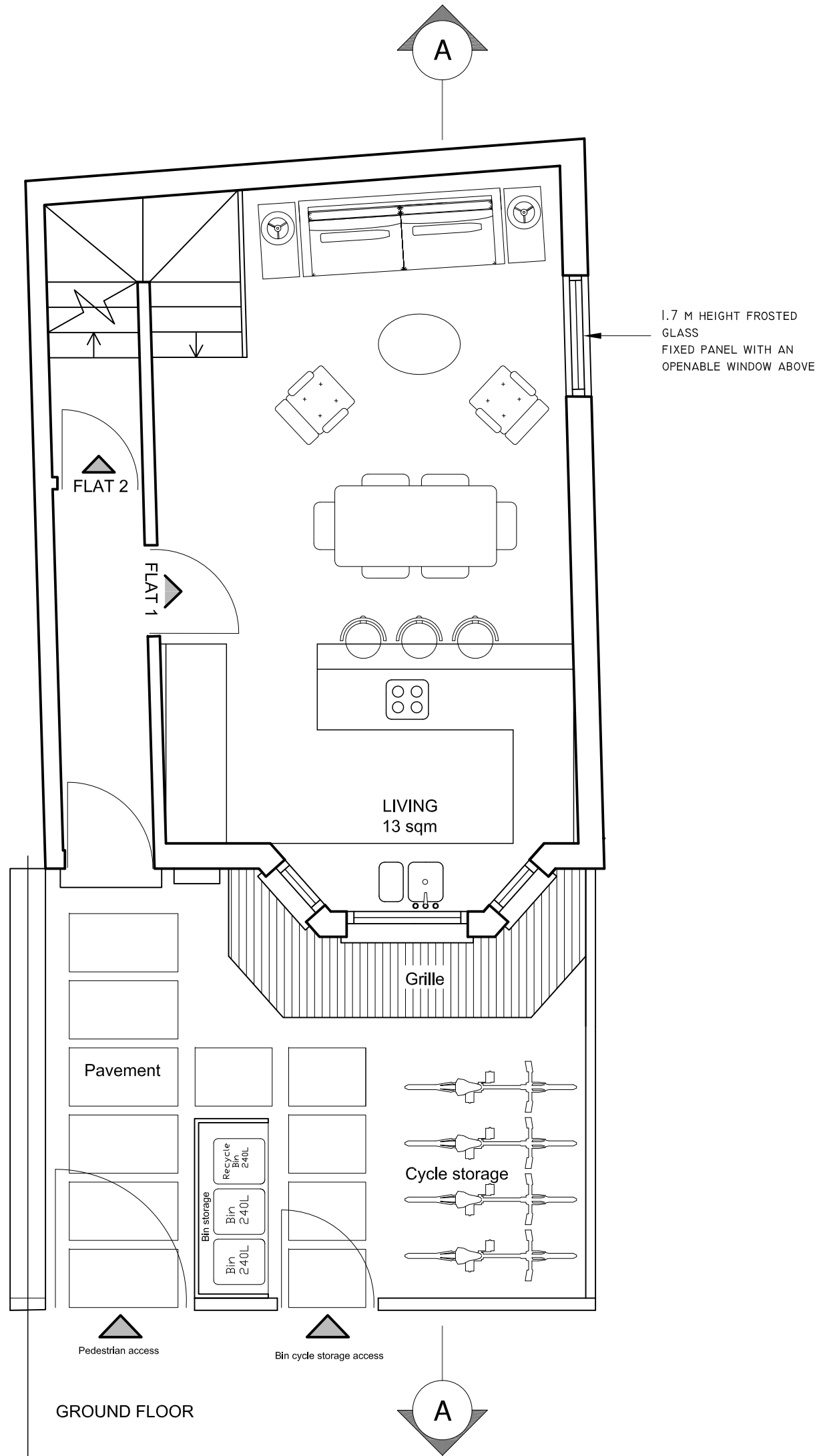
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Note:
Flat 1: 62.69sqm
Flat 2: 66.61sqm

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DRAWING NUMBER

02
PR Ground Floor

SCALE

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0 0.50 1.00

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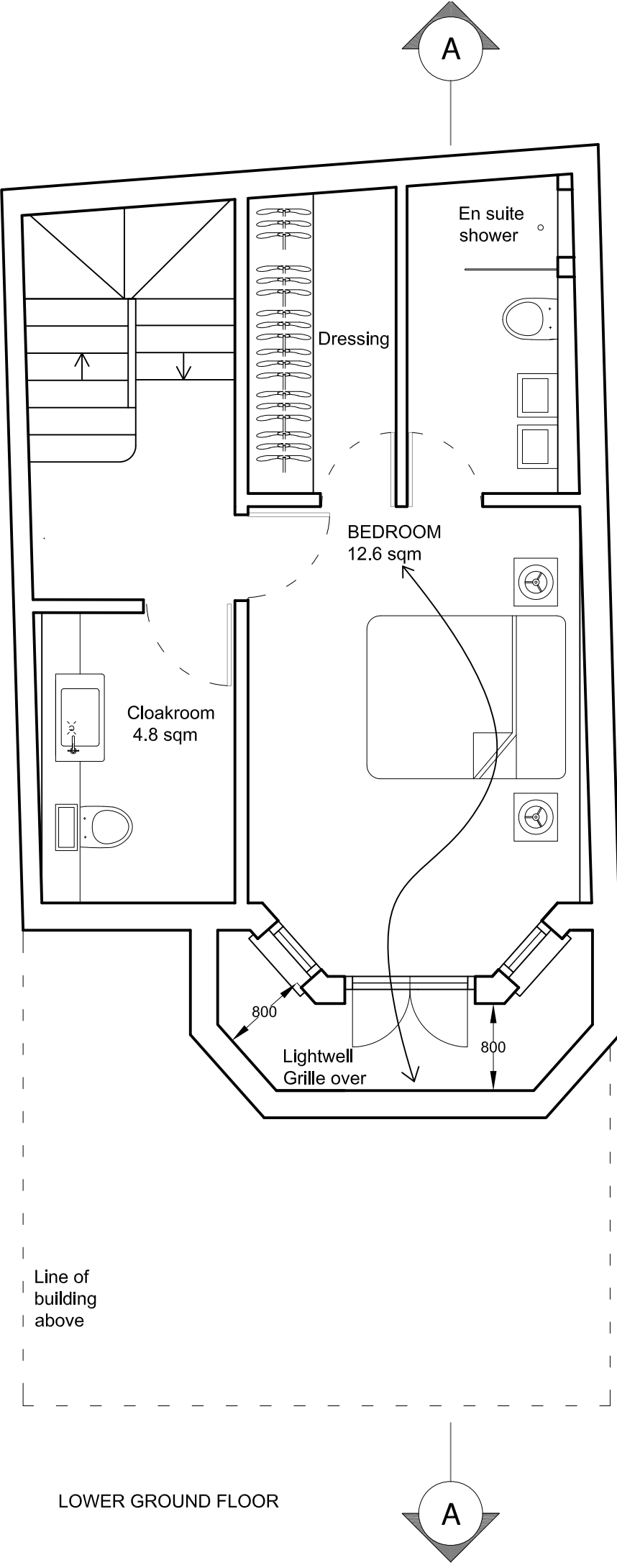
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LOWER GROUND FLOOR

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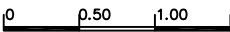
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DRAWING NUMBER

03
PR Lower ground floor

SCALE

1:50



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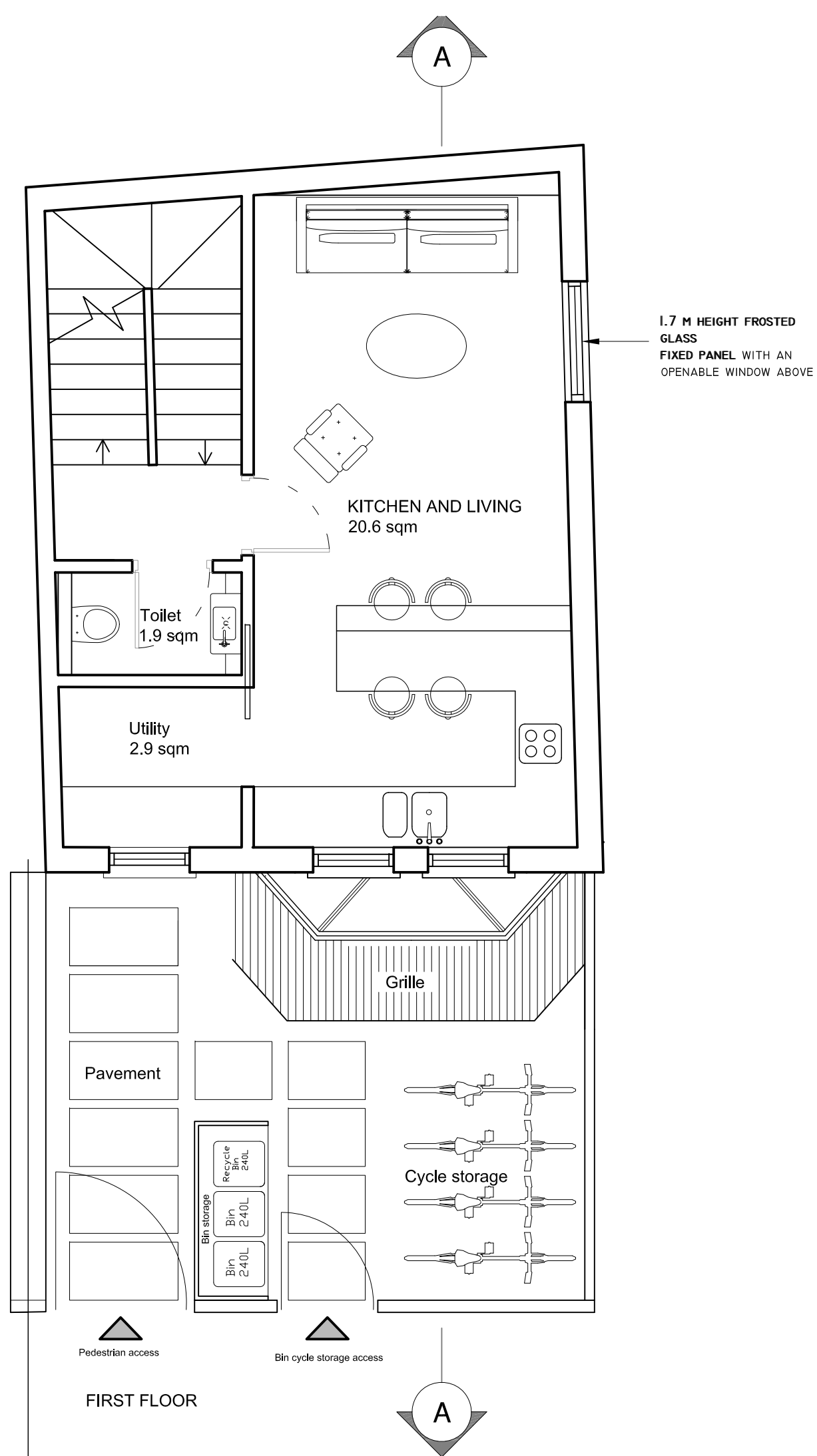
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DRAWING NUMBER

04
PR First Floor

SCALE

1:50

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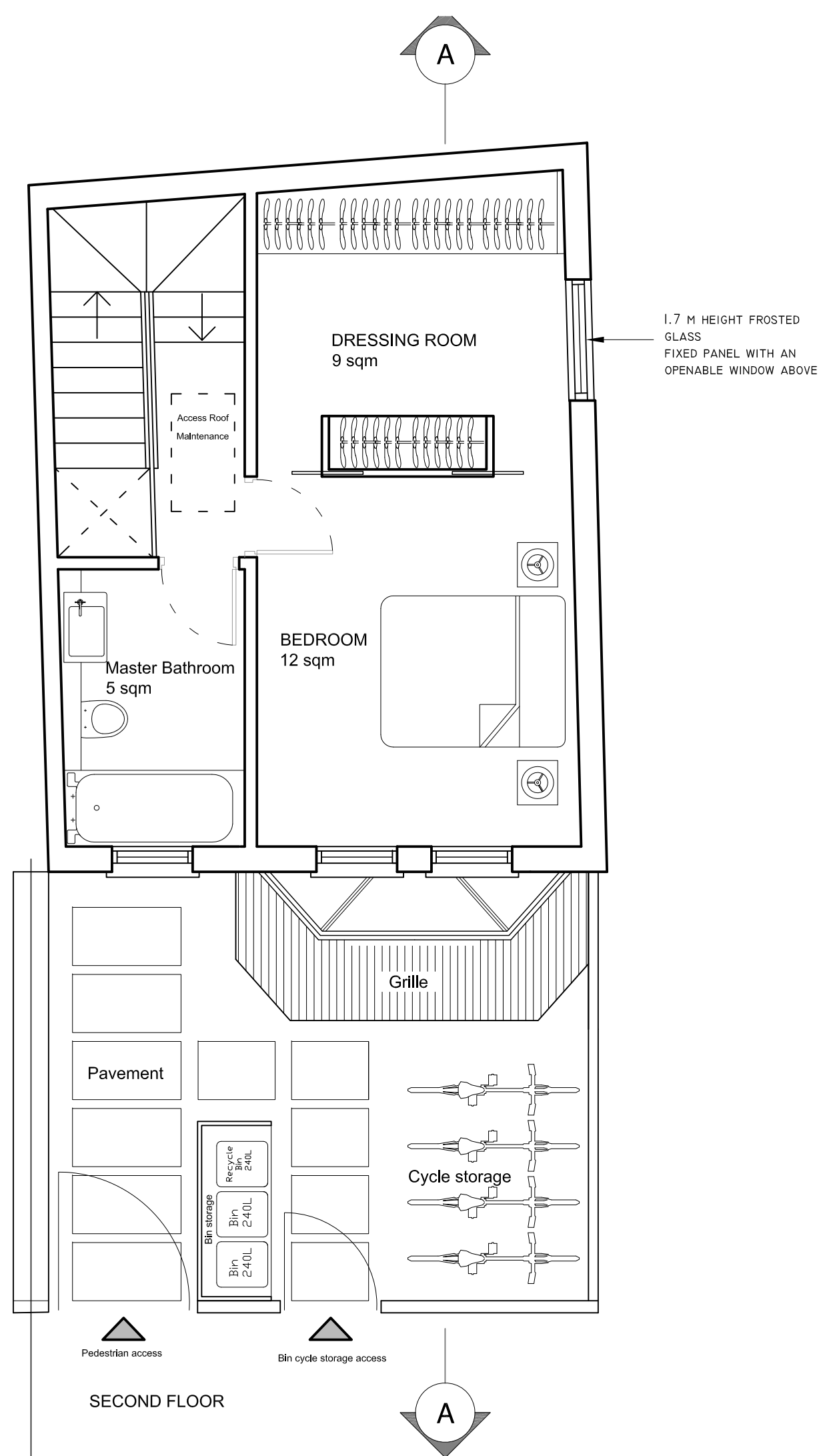
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DRAWING NUMBER

05
PR Second floor

SCALE

1:50

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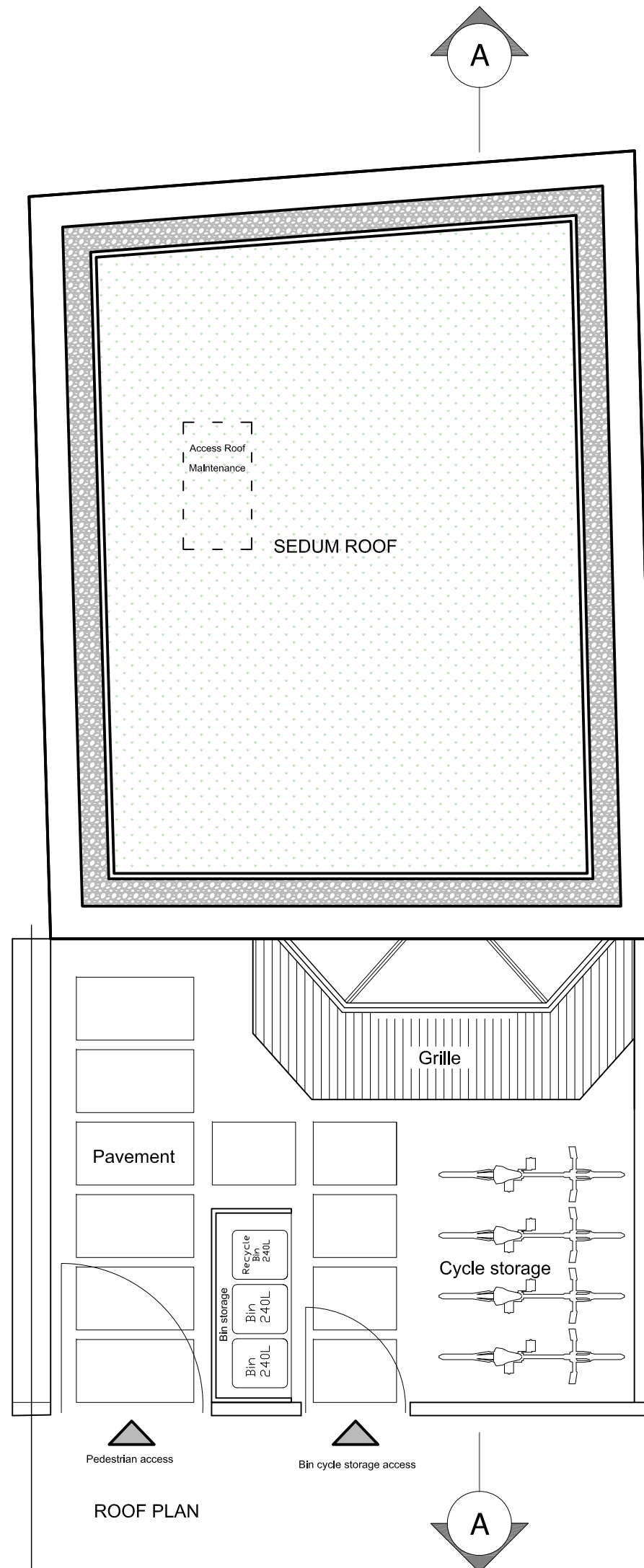
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06
PR FLAT ROOF

SCALE

1:50

0 0.50 1.00

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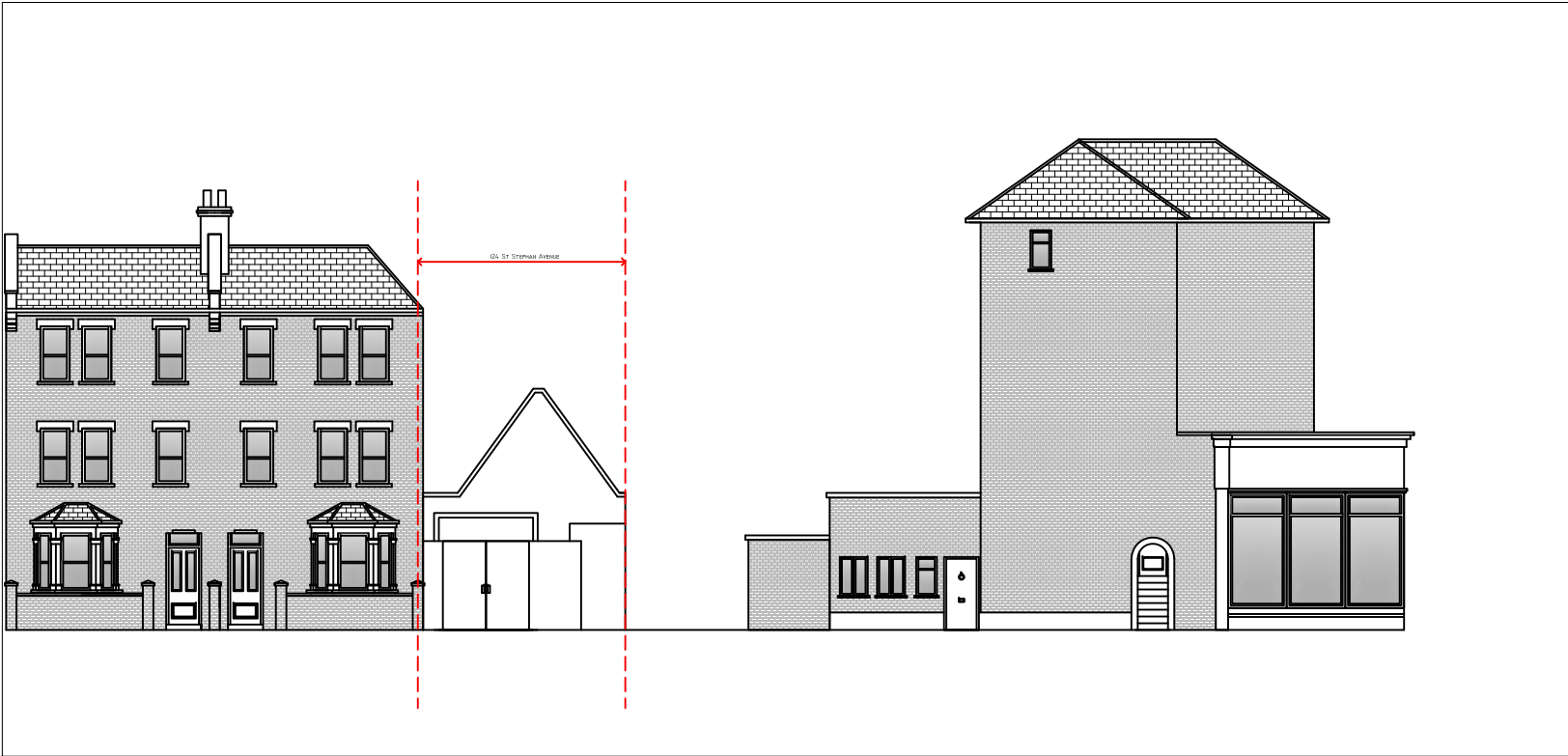
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EXISTING Scene view picture



EXISTING Scene View Front Elevation

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DRAWING NUMBER

07
Existing Scene view
Front elevation

SCALE

1:200

0 2.00 4.00

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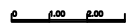
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DRAWING NUMBER

08
Proposed Scene view
Front elevation

CALE

1: 200



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09
EXISTING
Front elevation

SCALE

1:50

0 0.50 1.00

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DRAWING NUMBER

10
PROPOSED
Front elevation

SCALE

1: 50

0 0.50 1.00

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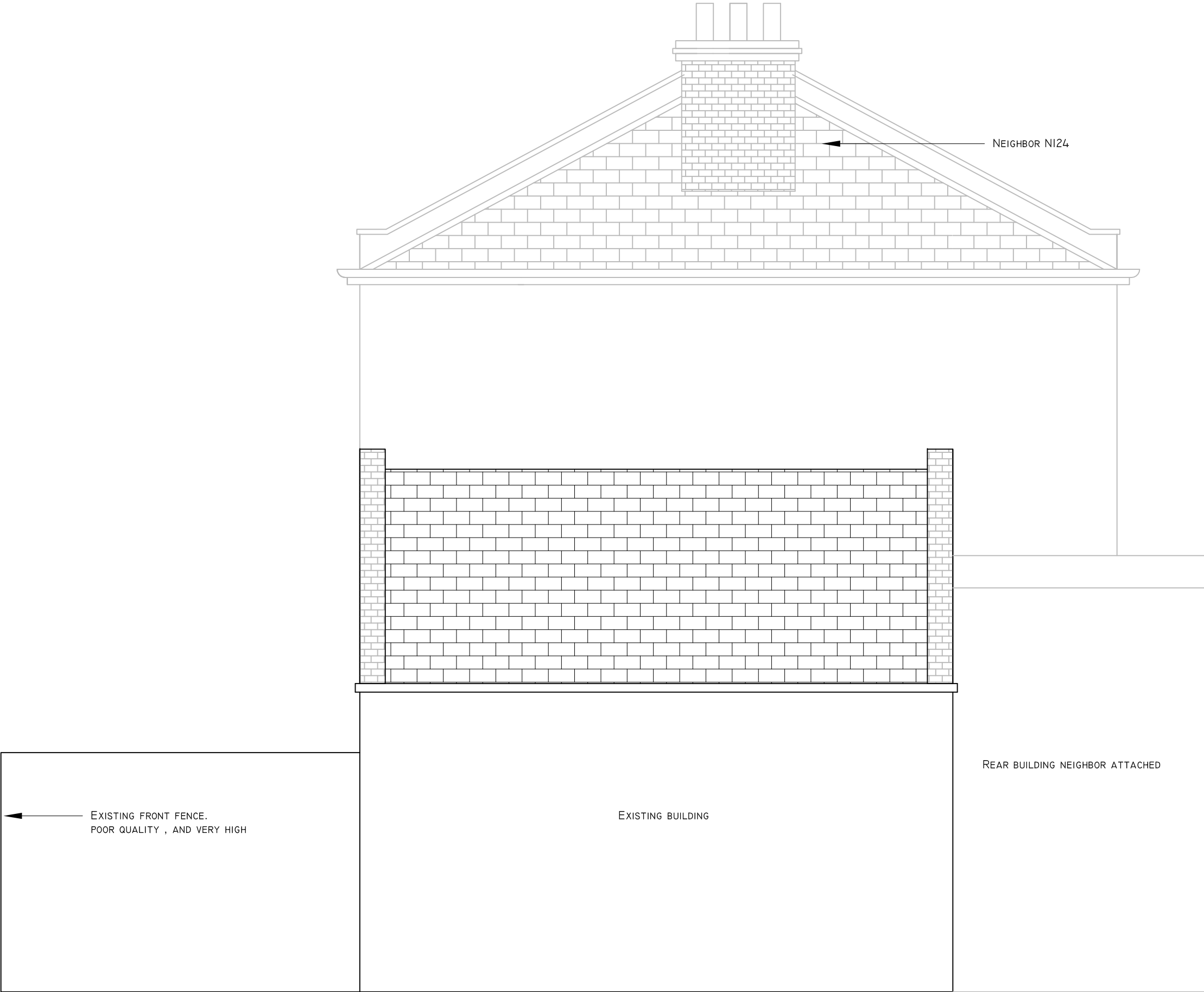
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DRAWING NUMBER

11
EXISTING
Side elevation

SCALE

1:50

0 0.50 1.00

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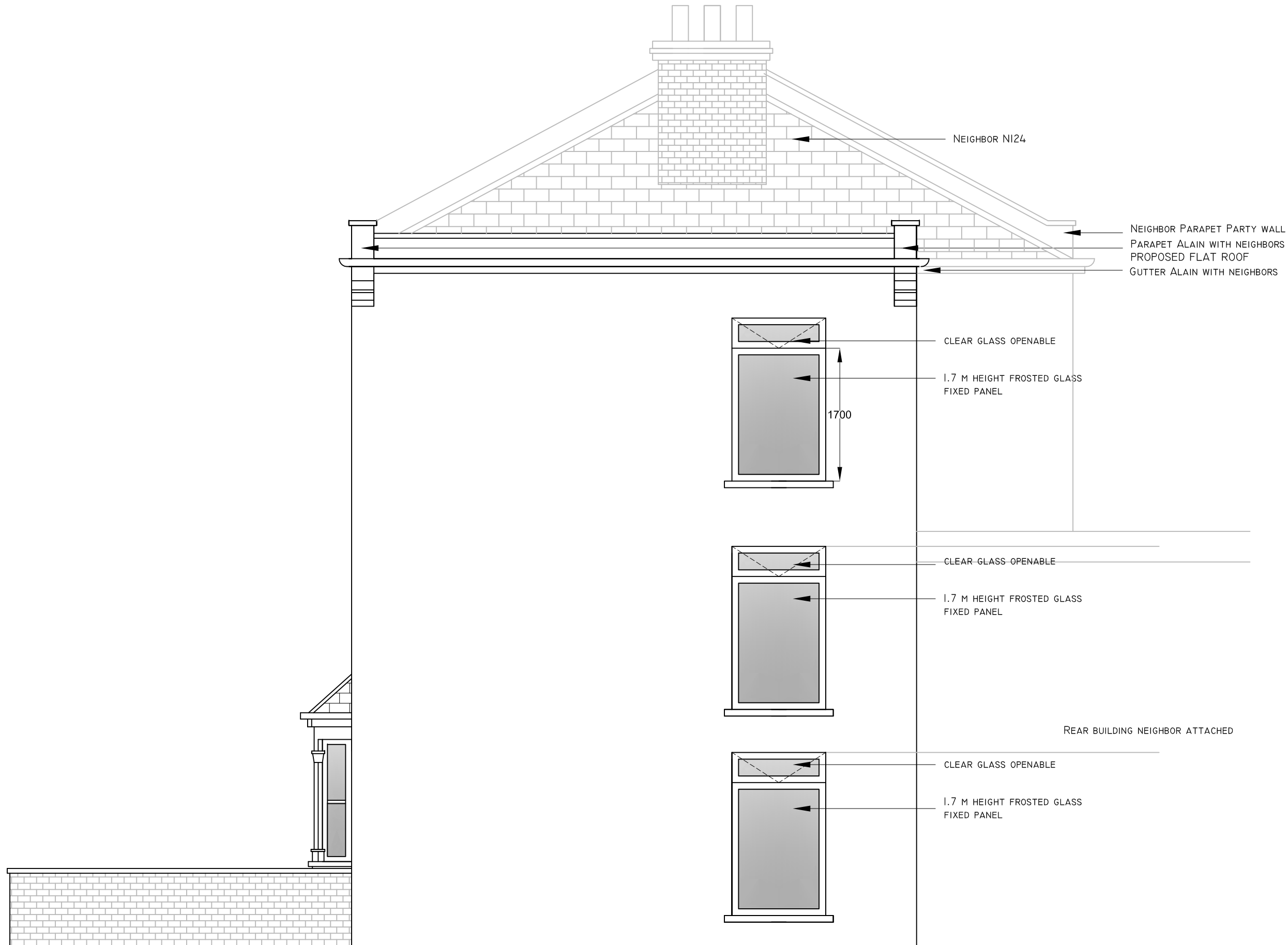
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DRAWING NUMBER

12
PROPOSED
Side elevation

SCALE

1:50

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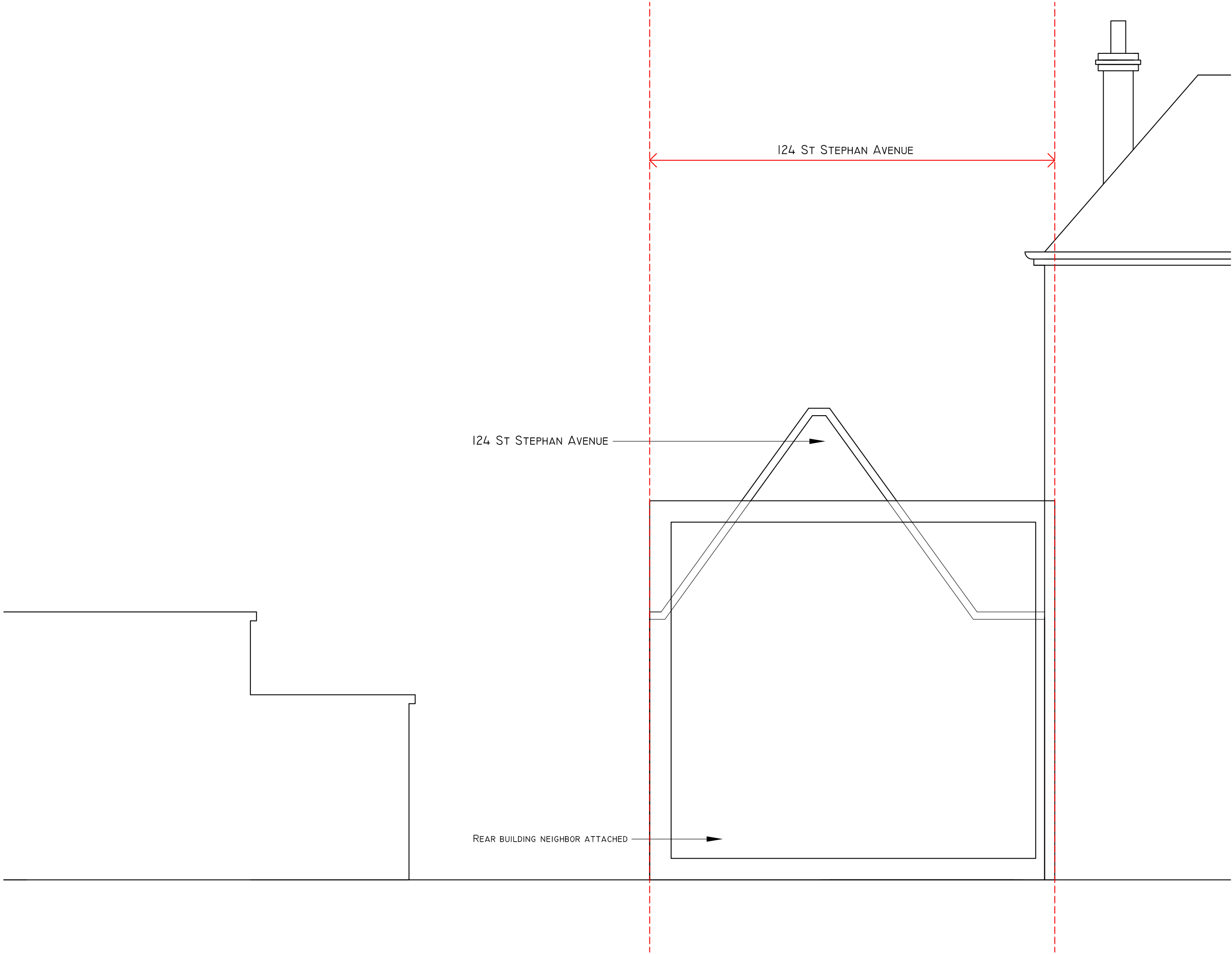
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13
EXISTING
REAR elevation

SCALE

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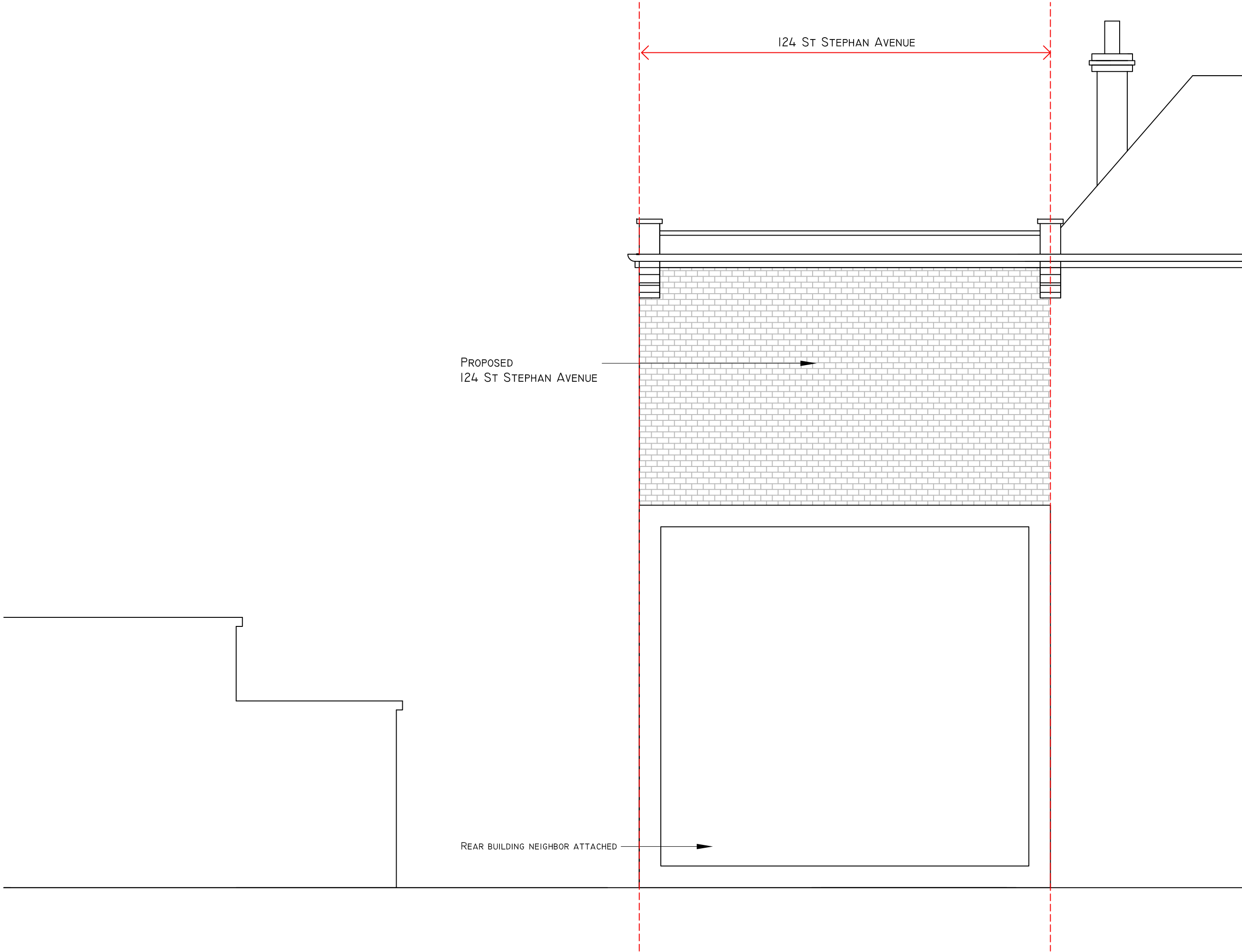
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DRAWING NUMBER

14
PROPOSED
REAR elevation

SCALE

1:50

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DRAWING NUMBER

15
EXISTING&PROPOSED
Side section

SCALE

1:100

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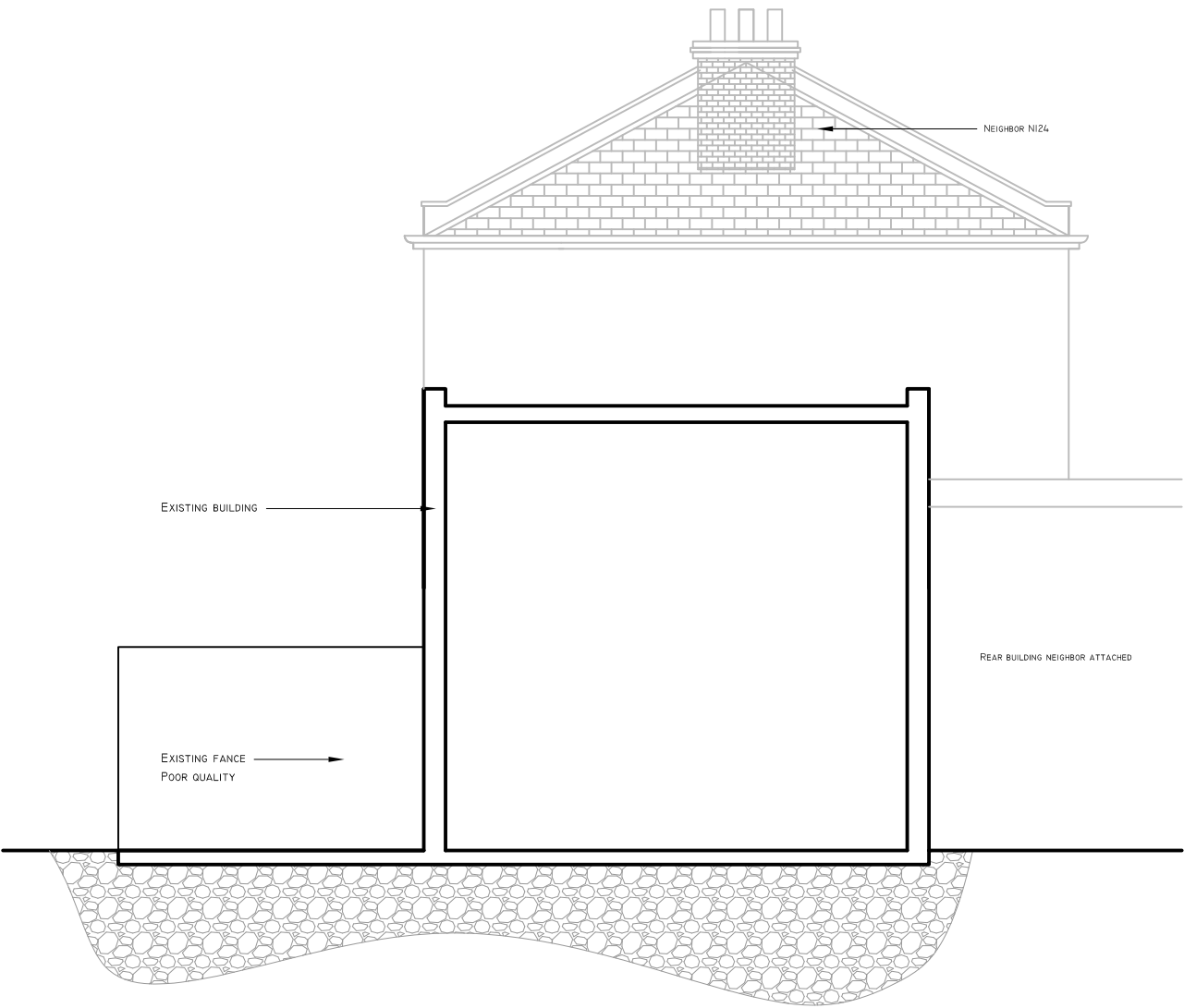
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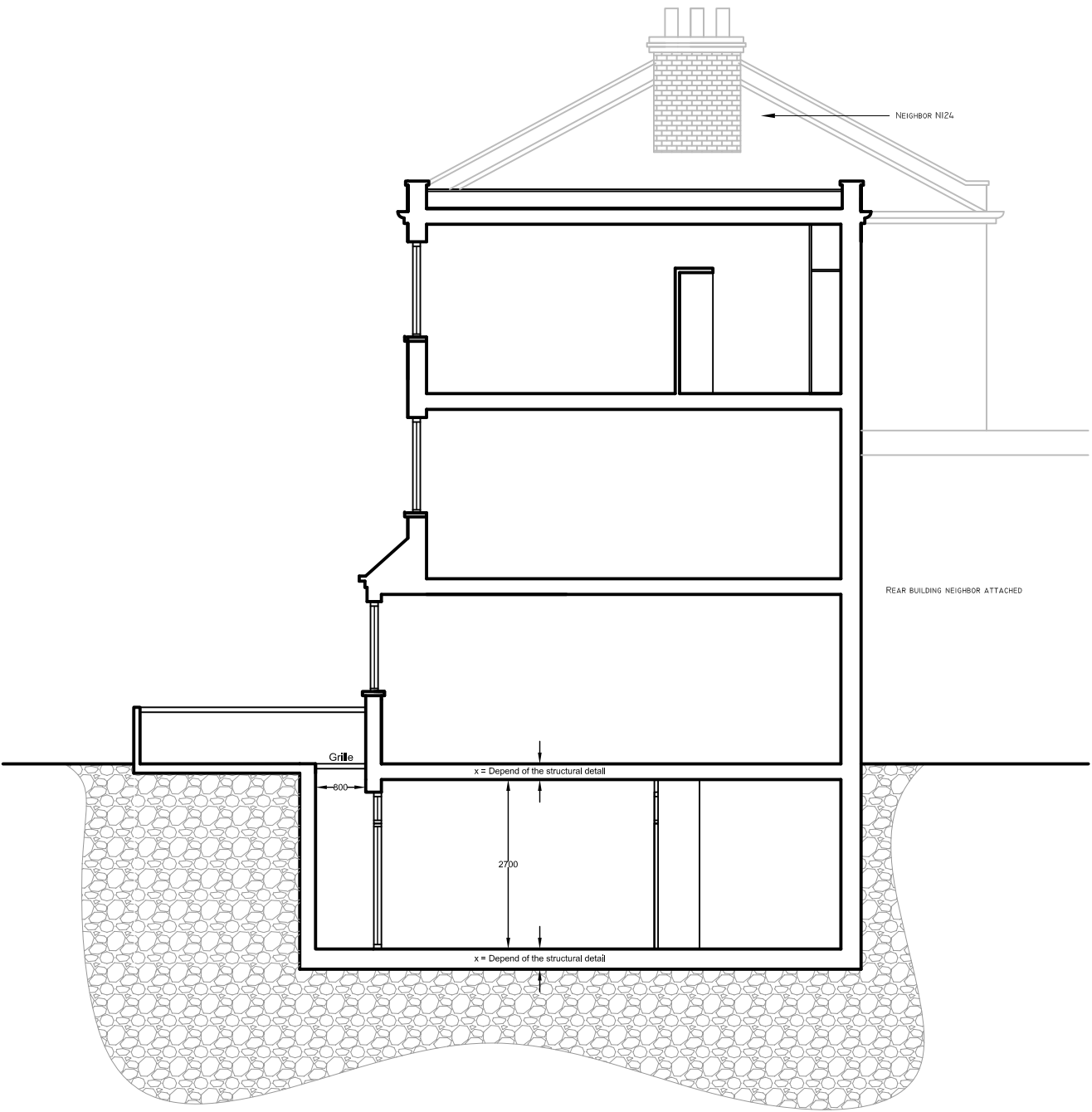
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EXISTING SIDE SECTION AA



PROPOSED SIDE SECTION AA

REDUCING WATER USE , RISK OF FLOODING AND WATERPROOFING BASEMENT

Method statement waterproofing DELTA

1. Remove fixtures and fittings and any stored artefacts from the area of our works so as to provide us with free and unrestricted access.

2. Form chases within the floor slab to house drainage channels.

3. Allow for casting into position the specified sump chamber (supplied by us).

4. Allow for running a discharge pipes from the sumps to the designated drainage system.

5. Ensure all openings are formed and any redundant openings are bricked up.

6. Ensure all surfaces to be treated are even and sound.

7. Ensure slab surface does not allow water to puddle to a depth exceeding 10mm.

8. All beams that penetrate into the perimeter walls must have the load-bearing ends placed within a waterproof cloak or other such protective pocket to prevent the lateral penetration of water reaching the beam.

9. Decks should be formed to falls to prevent standing water.

10. Form kerb details as may be required.

11. Provide a skip or central spoil heap for the disposal of any debris arising from our work.

12. Allow for connecting pumps, a high level alarm and any battery back up units to independently run, non-switched, spurs in accordance with the manufacturers recommendations.

13. Completed work will be signed off by us as defect free; you must protect such areas until subsequent finishes are applied.

14. Install drainage channels, into the pre-formed chases, and jetting ports as required.

15. Apply Delta Polysil TG500 to all concrete surfaces as an anti-lime coating.

16. Flood test the areas to ensure drainage of ground water is compliant.

17. Apply Delta MS500 membrane to the designated wall surfaces.

18. Apply Delta MS20 to the floor areas.

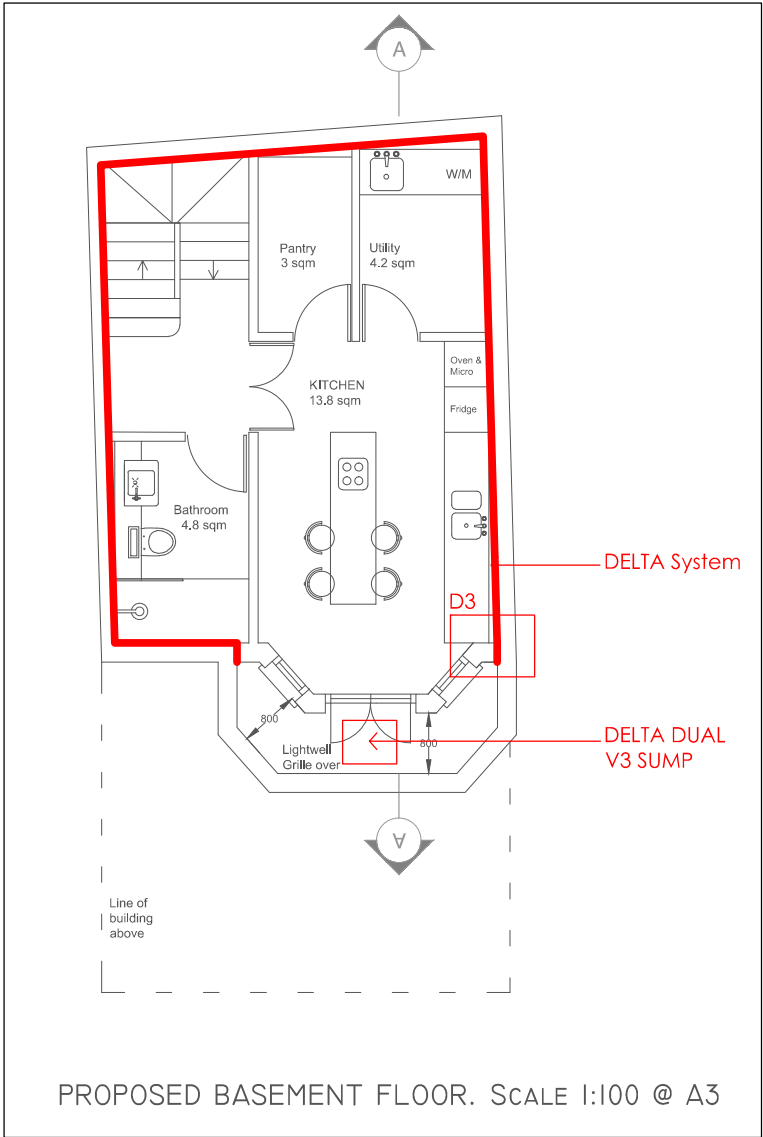
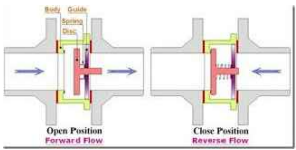
19. Once pumps etc. have been connected return to site and sign off system.

20. Remove waste arising from our work to your central spoil heap or skip.

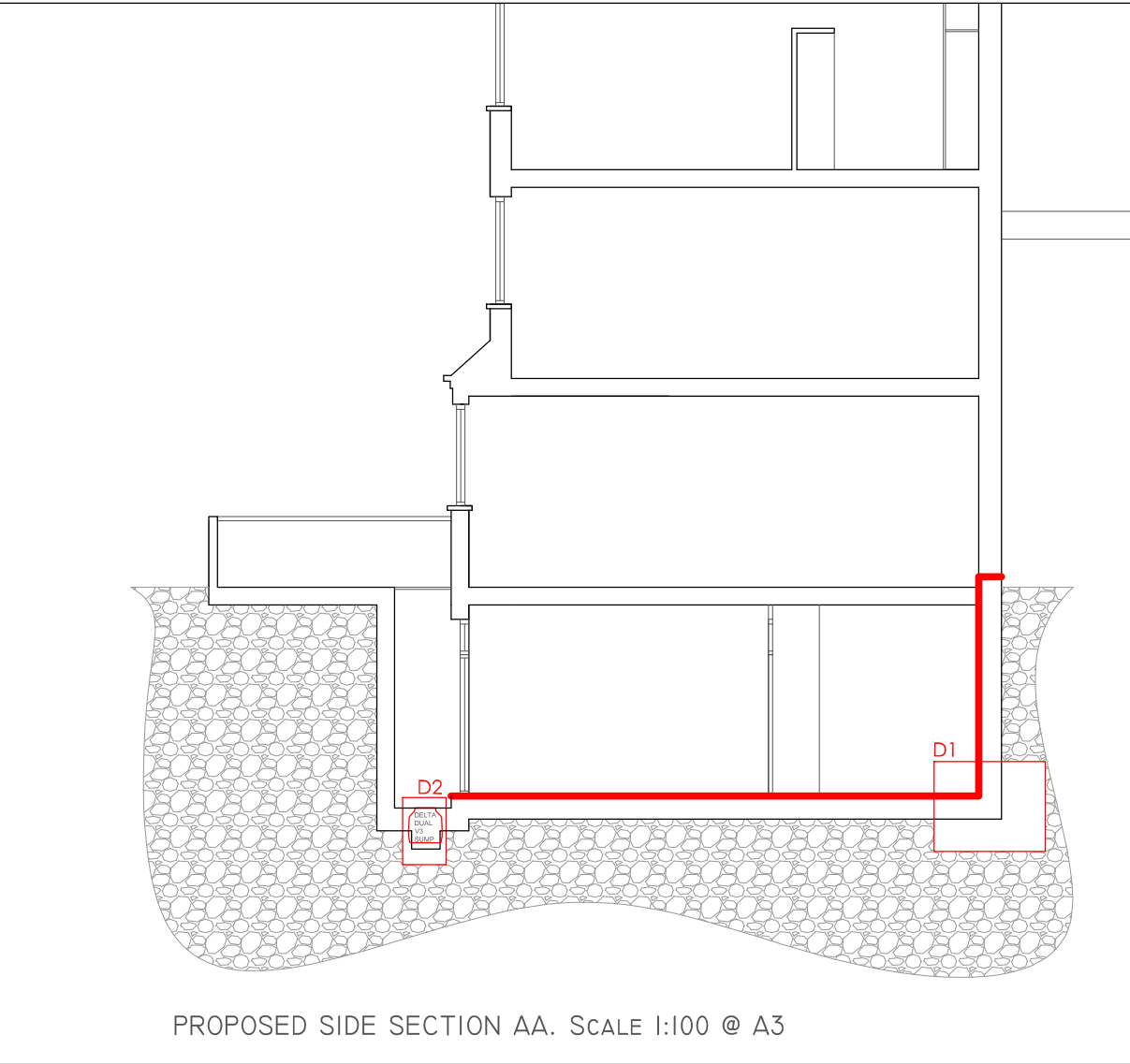
21. Provide to you a ten year warranty on the works completed by us.

IMPORTANT NOTE:

SEWER FLOOD RISK WILL BE MANAGED BY INSTALLING NON-RETURN VALVES (s)

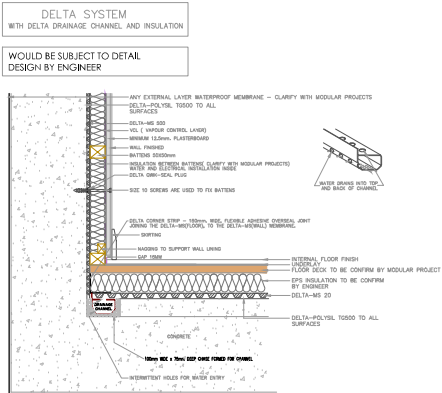


PROPOSED BASEMENT FLOOR. SCALE 1:100 @ A3

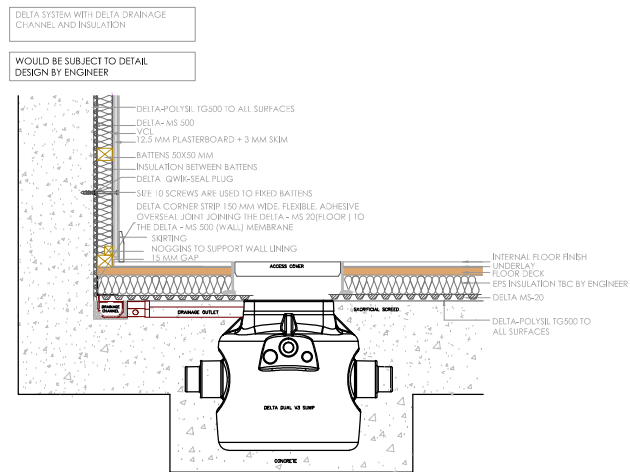


PROPOSED SIDE SECTION AA. SCALE 1:100 @ A3

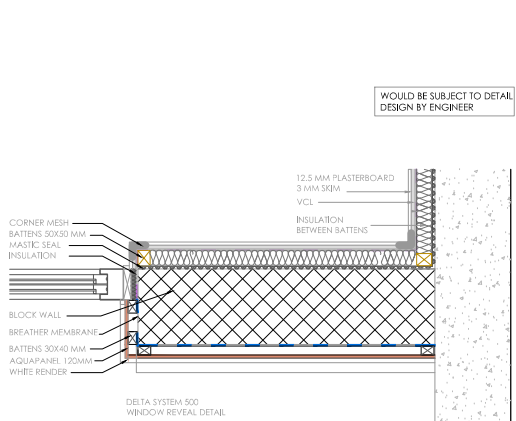
D1 Wall and floor



D2 Wall and floor-Drainage Channel into Sump/Pump(V3)



D3 Window Detail



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PROJECT

Planning permission

DRAWING NUMBER

16
Waterproofing System
for the basement
Revision_01

SCALE

Details 1:25

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ECOPLY-SYSTEM



The patented Ecoplay-system leads to substantial savings on usage of drinking water for households in cities up to 30%.
Example: An average (Dutch) household consists of 2,8 persons and consumes 140.000 liters of drinking water yearly (source: Statistics drinking water usage 2008). The Ecoplay-sytem reduces this consumption potentially with 42.000 liters. So, Ecoplay reduces the consumption of drinking water from 140.000 to about 98.000 liters! If all the Dutch should flush their toilets with bath and shower water it would save a whole lake. (Churchill)

Bath and shower water is collected and cleaned

The Ecoplay-system collects the water from bath and shower. It is subsequently cleaned: the heavier particles sink to the bottom of the holding tank, while the liter particles are scooped from the upper surface. In this way remnants of soap and hairs are removed. The cleaned water is stored in a storage tank. With this water toilets on all stories in the home can be flushed.

Integrated energy saving

The integrated heat exchanger (patent pending) handles the reuse of heat from the used shower water, to heat up the new water. Gastec-measuring has indicated a saving of over 50%, which renders a substantial saving on energy cost. The heat exchanger does not only save on energy cost, but also contributes to reduction of the EPC (Dutch index that indicates the energy efficiency of new buildings).

Bath water can cause unpleasant odor after some time. To prevent this from occurring the Ecoplay-system has a microprocessor (Ecoplay Control Unit, or ECU) that monitors the ageing of the stored reusable water. Before the time lapse reaches a preset value, the stored water is discarded and replaced by fresh (drinking) water from the regular supply.

Always sufficient flush water

The ECU assures that there is always a sufficient availability of flush water for the toilets. If necessary, the stored water is supplemented by fresh water from the regular supply.

Low maintenance

The Ecoplay-system is virtually maintenance free. The availability of water is monitored by the ECU and refreshed as necessary, based on the usage of water by the members of the household. Should a defect occur in the system, the main module can be easily replaced.

Built-in safety

If the power supply fails, the Ecoplay-system will automatically discard the stored water, to prevent it from ageing.

The chances of power failure are next to zero. If it does occur, the ECU will diagnose the situation and assist in remedying the problem.

Meets regulatory requirements

The Ecoplay-system meets international standards and regulations, and is amongst others KIWA-approved. This means the system can be installed freely in homes.

What are the benefits?

- Households in cities can save 30% of drinking water
- A cost-effective way to meet The Code for Sustainable Homes requirements
- Compact, lightweight and easy to install with a minimum of additional site work
- Suitable for single-storey and duplex projects – new-build or renovation
- Aids planning permission in environmentally sensitive areas
- Saves energy (5% EPC rating)
- Reduces drainage by up to 30%
- Compatible with Modern Methods of Construction (MMC)

WATER BUTTS



Technik Rain Tank Systems are scalable and expandable allowing you to store upto 4000 litres of water by simply adding and linking additional 800 litre tanks to the system.

Featuring a waterproof and submersible garden steelpump, these systems not only give you high-capacity storage of rainwater but also the means to ensure good water pressure right around your garden.

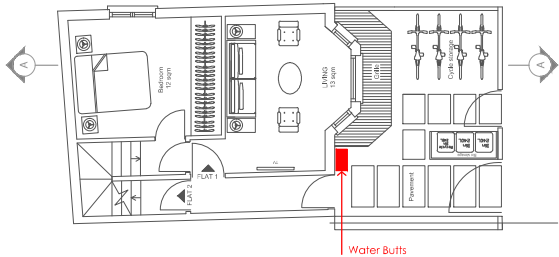
These tanks are simple to install and the included a 3P Technik quality Filter Collector, ensuring maximum diversion of rainwater from your downpipes into your tank(s). The Filter Collector also filters the rainwater ensuring leaves and other debris cannot enter the tanks.

The Garden Steel pump hooks up to the brass connectors at the base of the first tank giving you the full benefit of all the combined capacity. The tanks do also feature taps for use with a watering can if desired.

Tap is approximately 30cm from base, enough to get a standard watering can underneath.

Each tank interconnects using high quality connection sets with metal threads to combine the capacity.

The garden steel pump has a 600W power rating, generating a flow of upto 3,000 litres per hour. It comes with a generous 10 litre mains power cable and is light enough to carry comfortably for putting away.



PROPOSED GROUND FLOOR. SCALE 1:100 @ A3

Water efficient fittings/appliances



Water efficient fittings/appliances should be installed to help reduce water use and minimise foul water flows to the sewer.

Water usage can be reduced by specifying/installing:

For main-pressure systems, low-flow showerheads that use around 9 litres of water per minute and still deliver a comfortable shower aerators on taps used for hand washing

An aerator on a tap used for handwashing will reduce the flow while still providing plenty of water.

Appliances
Reduce water use by recommending water-efficient appliances.

CLIENT

St Stephen Avenue 124 LTD

ADDRESS

124aSt Stephens Avenue
W12 8JD

PROJECT

Planning permission

DRAWING NUMBER

17
REDUCING WATER USE
AND RISK OF FLOODING
Revision_01

SCALE

COMPANY

MUROBLANCO LTD
11 Crucifix Lane
SE1 3JW
London

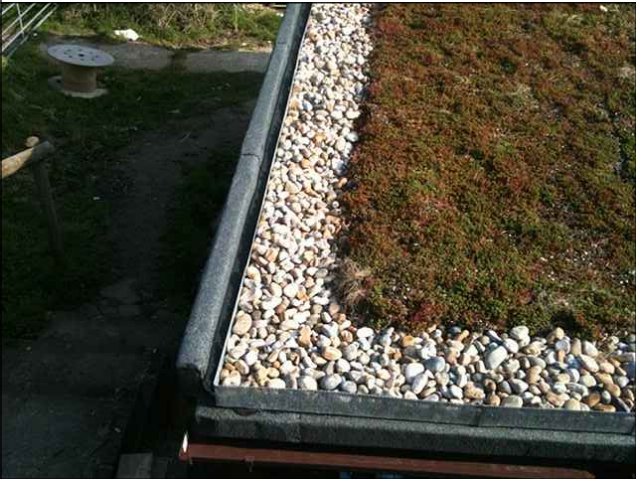
T 07740165524
www.muroblanco.com



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SEDUM ROOF



Sedum plants come in many colours and varieties so it is possible to design sedum mats/blankets sedum walls or modules such as the S.Pod, some times called the sedum tray/green roof tray or modular system the S.Pod, tailored to your needs or that of the environment. Advertise your business in a sustainable way or just make a microclimate for birds and insects with sedum roofing providing a living roof. Green Walls can soften large expanses of wall near restaurants or pubs. For example an unattractive area could be made into a green roof or green wall, which could include other species such as herbs or wild flowers. If a small area is required then we can supply species of Sedum in plug plant form, which you can plant direct into the substrate.

Green roofs can positively affect the heat produced by urban environments, (the Urban Heat Island).

Green roofs significantly reduce the surface run off of rainfall. (A mechanism for Sustainable urban Drainage Systems).

Green roofs and walls can also improve the quality of water and it is possible to use this run off rain water for other uses, (internal water usage, for example flushing toilets).

They can also significantly reduce the need for air conditioning and can provide a degree of insulation in winter. This is also known as green roof insulation.

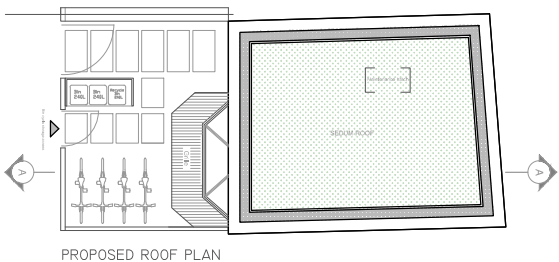
Green roofs can also help provide sound insulation using the combined effect of soil, plants and trapped layers of air. The base the plants grow on tend to block the lower sounds, while the plants growing above block the higher frequencies.

Green roof systems have been shown to substantially increase the life of waterproofing membranes lying at the base of the roof.

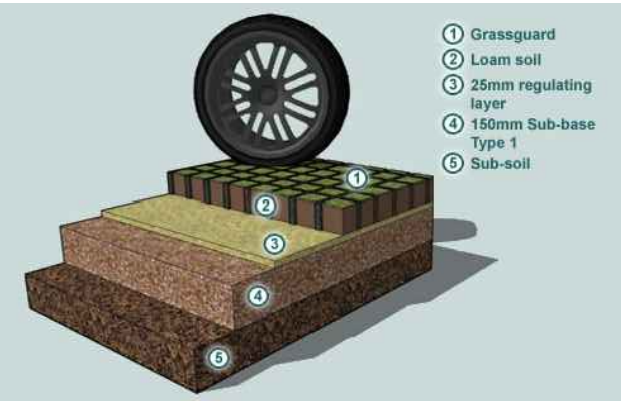
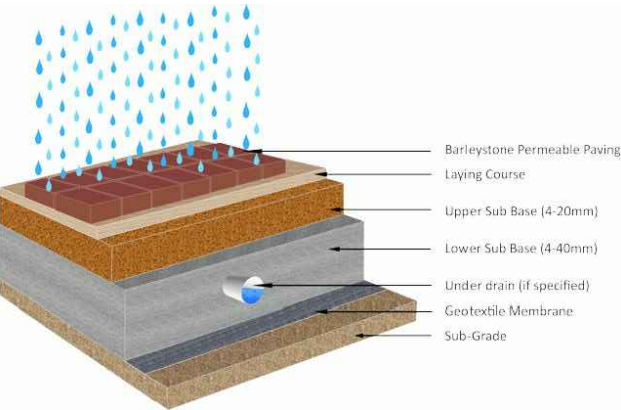
Green roofs can improve air quality due to the filtering mechanism of the plants and substrate.

Roof gardens can provide green space in urban areas for recreational purposes or for urban food growing.

The benefits are enormous, not only financially, but Sedum green roofs can last longer than conventional roofs. These green roofs benefit the environment not only as a carbon sink, but encouraging the wildlife and biodiversity. We grow a wide variety of species of sedum so that the full benefit of a diverse habitat is possible. Each plant is slightly different so giving a wonderful diverse appearance of both colour and texture.



PERMEABLE PAVING



Rain water has to go somewhere and, even if you are not flooded, it might be affecting your neighbours downhill. Where is not possible to keep garden space: keep paving to an absolute minimum and use a permeable paving material.

The benefits of permeable paving include:

Reduce local flooding
Prevents problems with subsidence. Paving reduces or stops rainfall getting into the ground. This can cause the soil to shrink, especially if it is predominantly clay, which has consequences for structures built on it. Garden walls, paths and houses may develop severe cracks
Additional benefits of not paving over front gardens or keeping the paving to a minimum:

Leafy streets carry premium prices
Attractive front gardens have benefits for people too. The reduce particulate (dust) pollution and can improve health through the 'restoration' effect' of experiencing greenery. Gardens provide screening and privacy, creating a green oasis for enjoyment
If vegetation is lost from our streets there is less to regulate urban temperatures. Hard surfaces absorb heat in the day and release it at night, making it hot and difficult to sleep. This is part of the 'heat island effect', which can also be responsible for poorer air quality and localised weather conditions, such as thunderstorms

CLIENT

St Stephen Avenue 124 LTD

ADDRESS

124aSt Stephens Avenue
W12 8JD

PROJECT

Planning permission

DRAWING NUMBER

18
SEDUM ROOF AND
PERMEABLE PAVING
Revision_01

SCALE

COMPANY

MUROBLANCO LTD
11 Crucifix Lane
SE1 3JW
London

T 07740165524
www.muroblanco.com



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