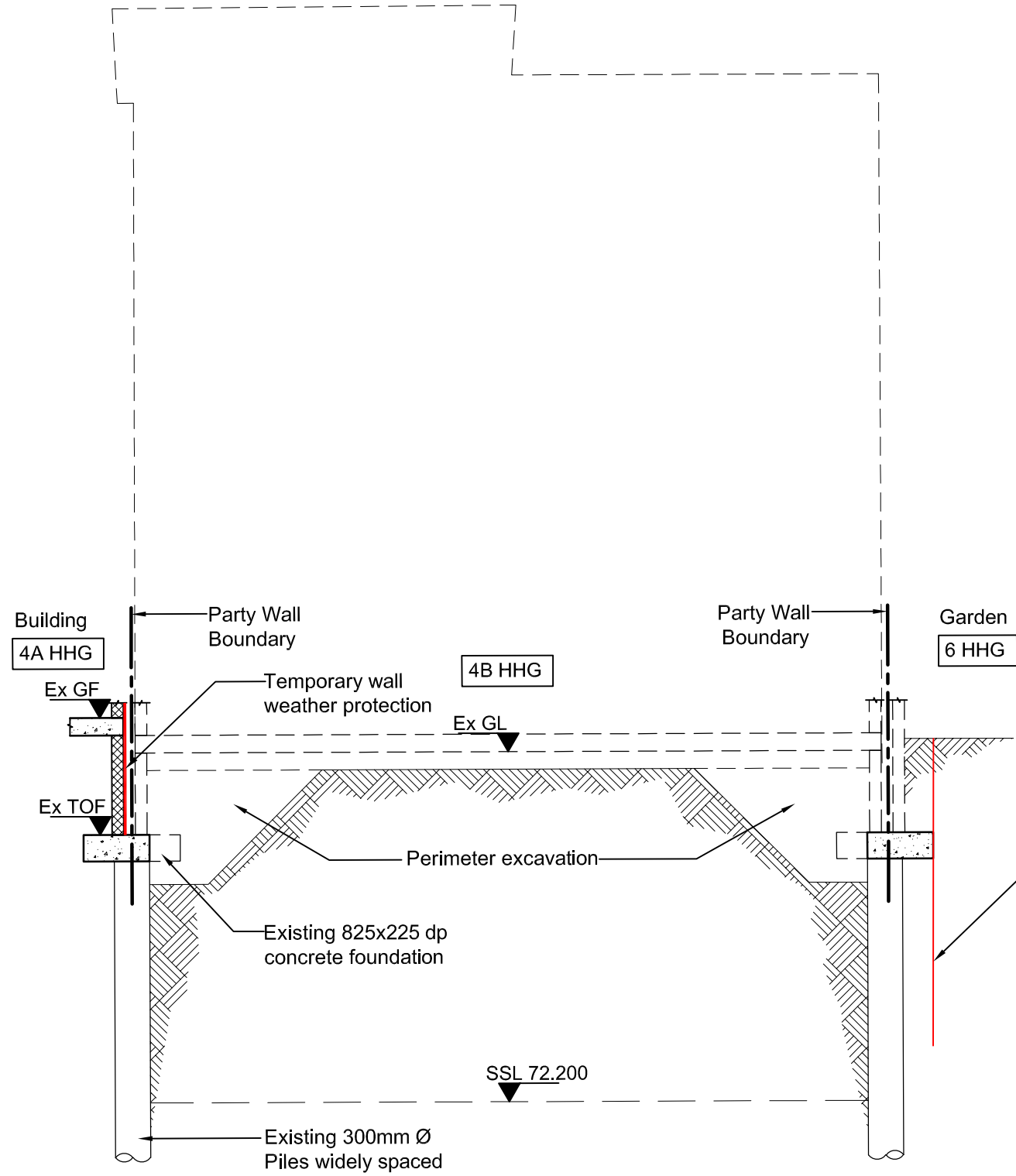


Existing Condition

Scale 1:50

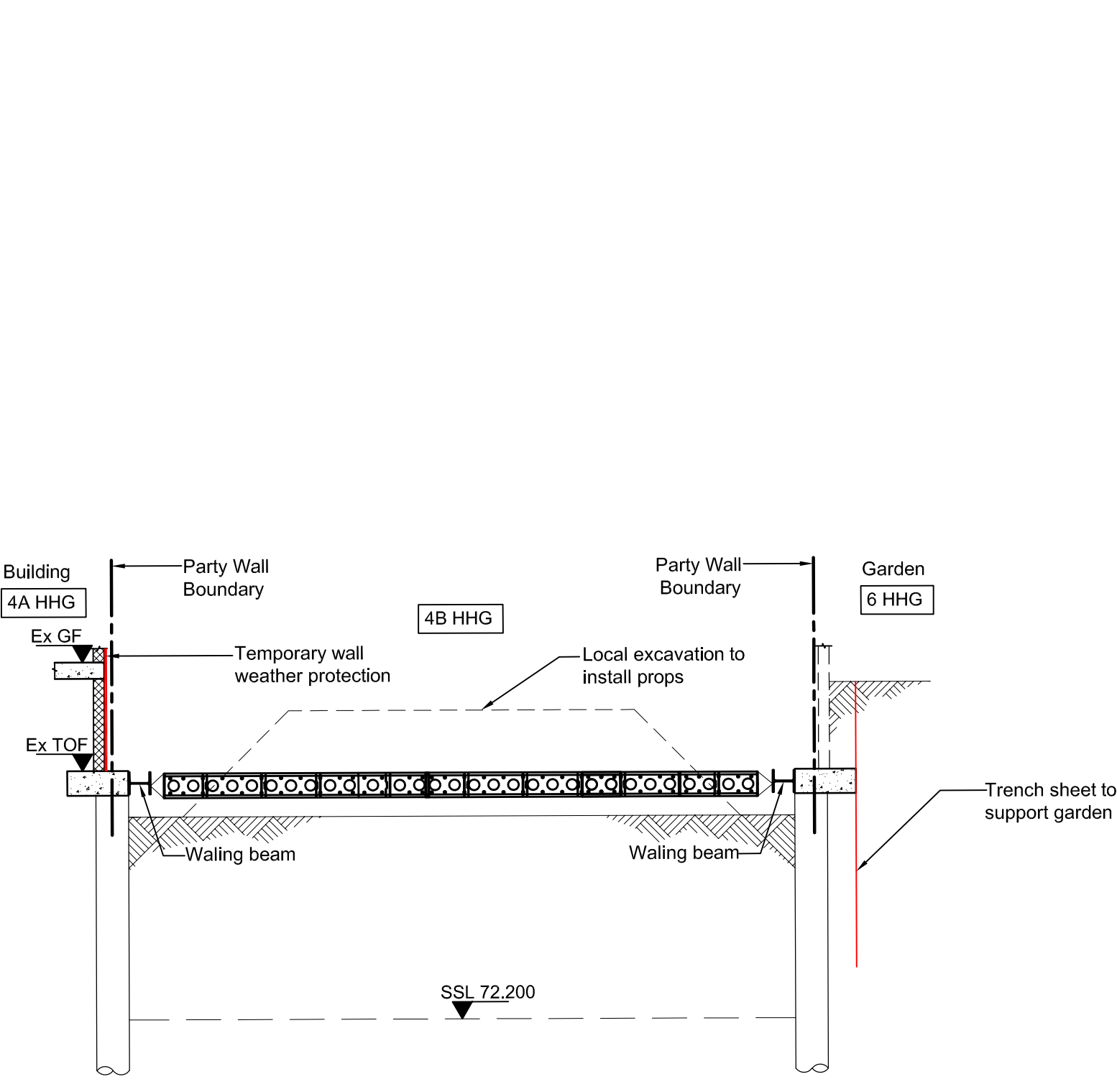
Existing structure is of load bearing masonry bearing, timber floors and some steel beams. The historic existing drawings indicate 825 x 225mm spread foundation with 300mm Ø short bored piles to an estimated depth similar to the proposed formation. The weekly movement monitoring regime commences with the installation of target locations on neighbouring wall elevations and garden walls to be retained.



Stage 1 - Demolition of 4B

Scale 1:50

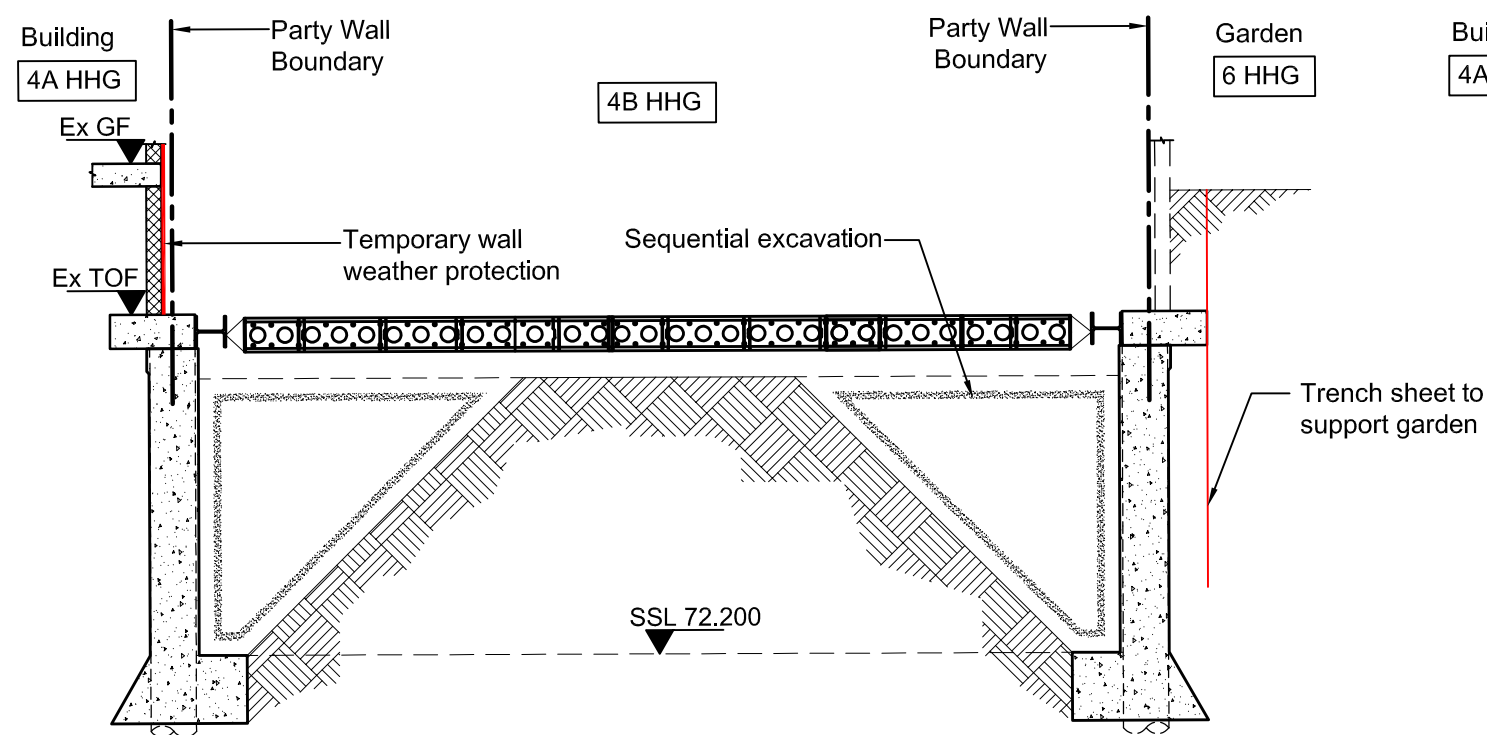
Install trench sheeting to outer face of boundary to the garden of 6 HHG. The existing 4B Hampstead Hill Gardens is to be carefully be demolished, including the inner leaf of the perimeter boundary walls to existing foundation top of concrete. Temporary wall weather protection installed to the wall of 4A until reinstatement of the 4B superstructure is constructed. The perimeter foundation is exposed by excavation. The toe of the existing foundation is saw cut back to the face of the existing piles (approximately 265mm).



Stage 2 - Temporary Works Installation

Scale 1:50

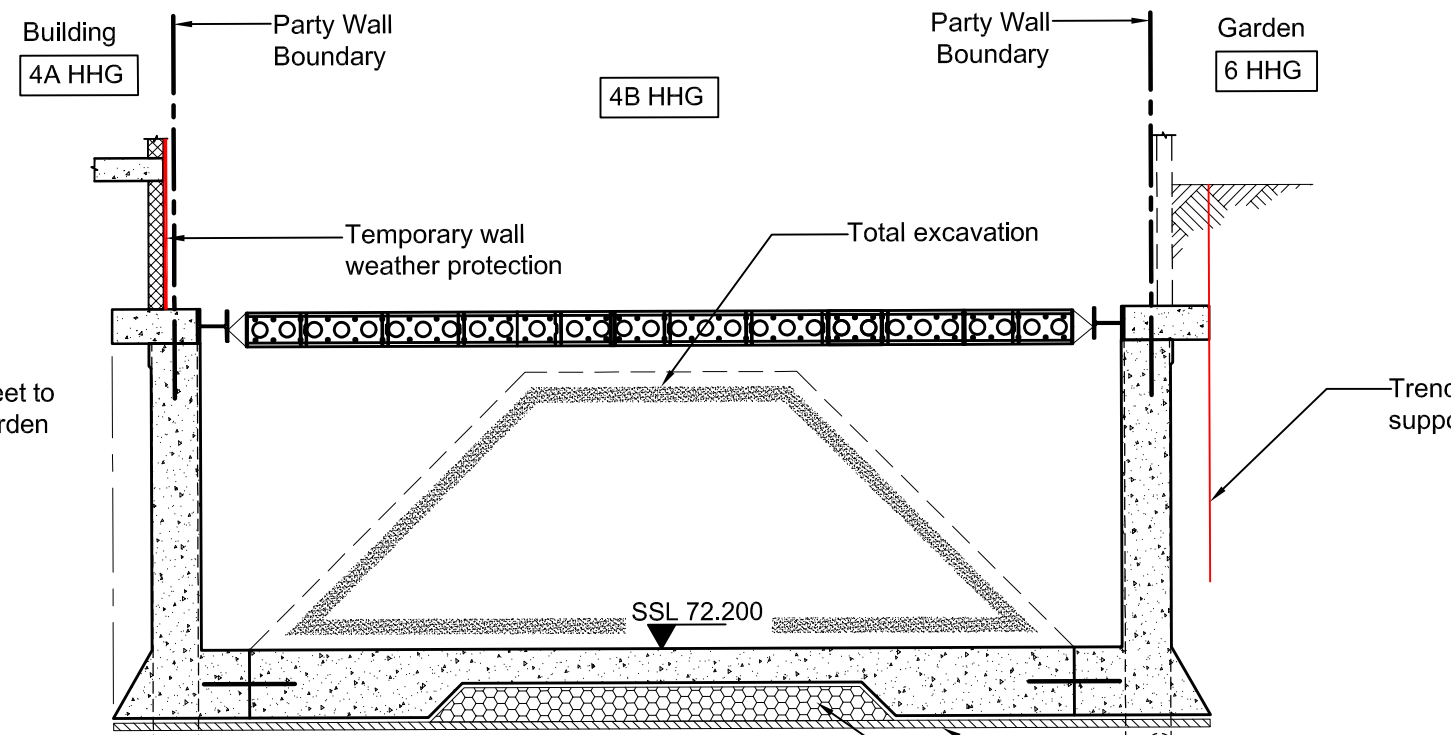
Perimeter waling beams are fixed to the existing foundations. Further material is excavated from the centre of the site to enable the installation of lateral flying and knee props. The props will fix to the perimeter waling beam. It is not known whether the existing foundation is reinforced, and it is assumed that it will not have the capacity to span laterally between proposed flying prop locations. The waling beam prop arrangement facilitates lateral resistance to keep ground movements within permissible limits.



Stage 3 - Underpinning

Scale 1:50

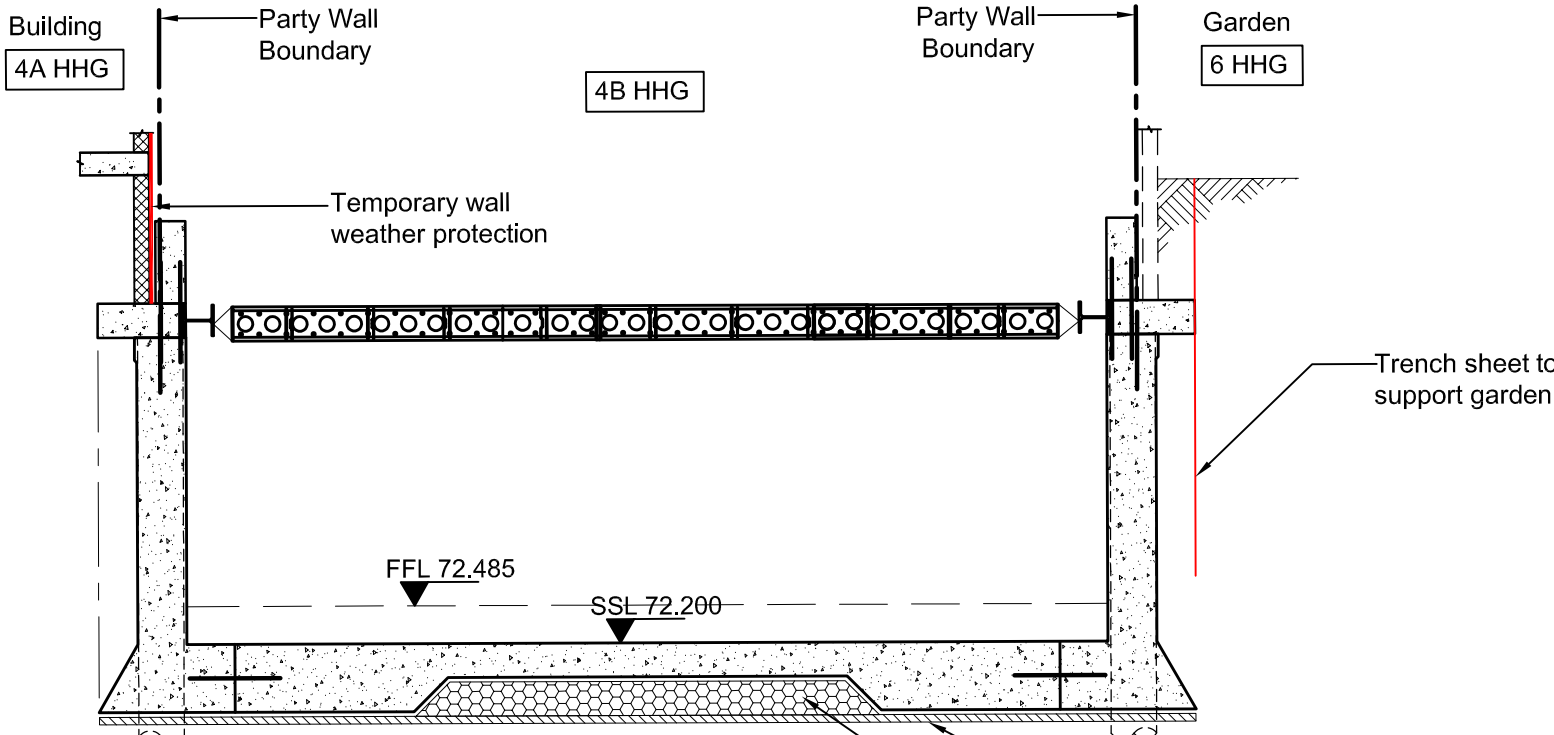
The perimeter walls are constructed by underpinning in a specific sequence for safe working and to keep ground movements within permissible limits. Each excavation is local to the specified pin and perimeter location. Each pin is reinforced, to be no greater than 1200mm wide, tied laterally with reinforcement to adjacent pins and have a dry pack at the head of no greater than 50mm depth (to minimise concrete shrinkage). The underpins are to have an initial minimum toe length of 825mm to match the original condition. Each underpin is to be loosely back filled once complete.



Stage 4 - Excavation

Scale 1:50

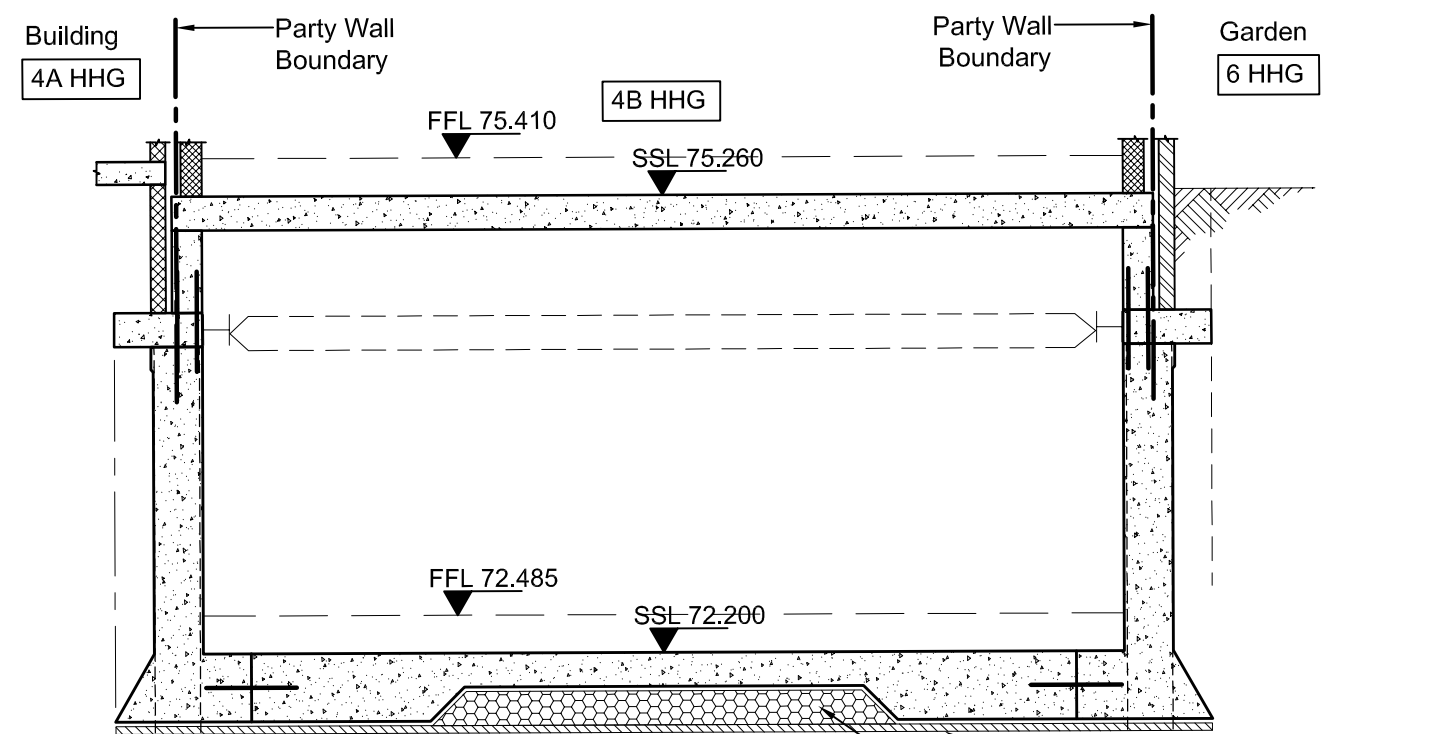
The basement can now be fully excavated exposing the central formation level. 50mm concrete blinding is cast to protect the founding material. Central heave protection is laid and the remaining concrete toe and central slab is poured creating a permanent stiff prop at formation level. The concrete underpins will need to be cleaned, any defects repaired and waterproof barrier treatment applied to the waterproof specialists' specification.



Stage 5 - Substructure Continuity

Scale 1:50

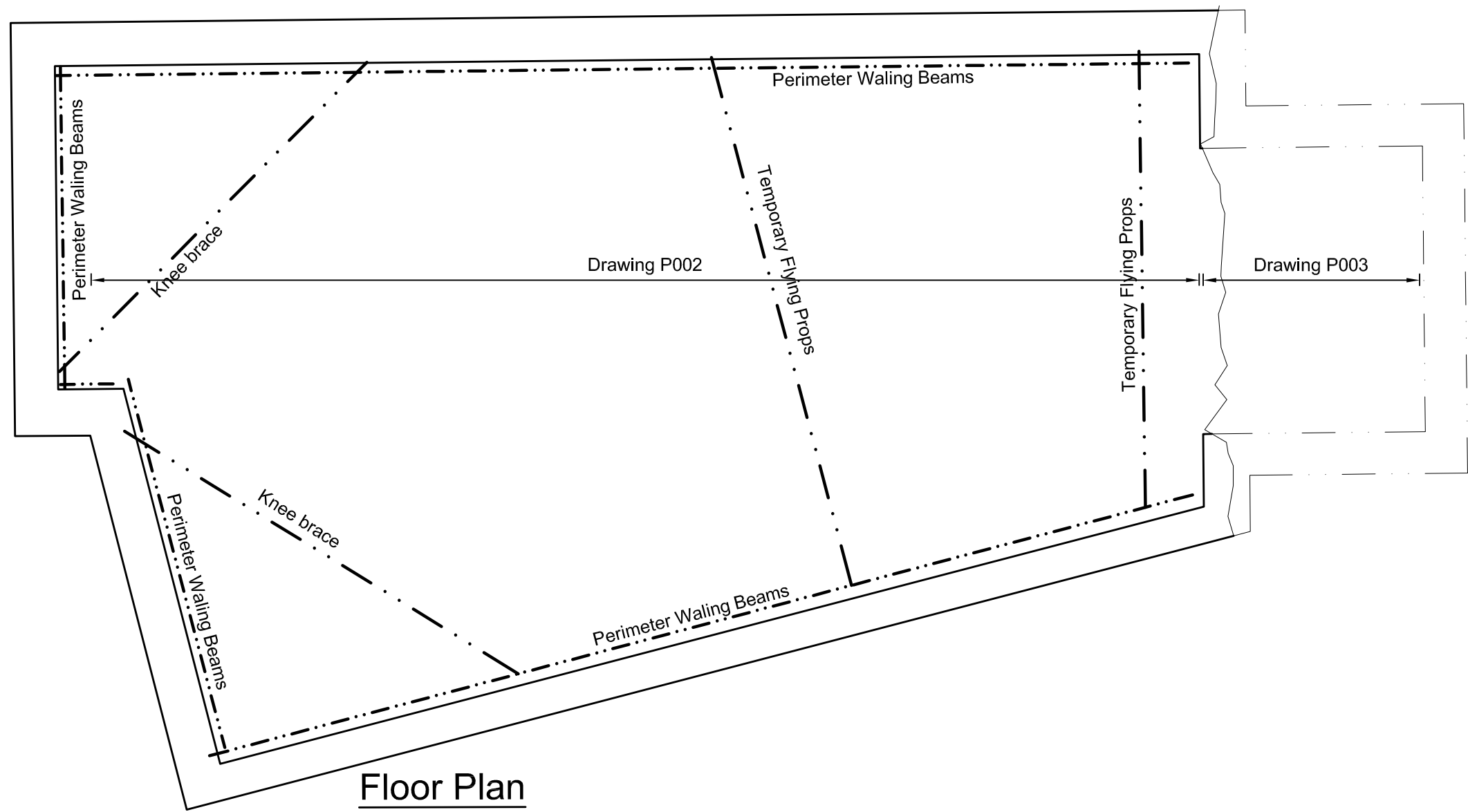
Small staggered holes are to be cored through into the existing foundation into the underpins, epoxy resin placed for reinforcement dowels. The dowels are cast in place and a new concrete upstand cast to the proposed soffit level of the ground slab. Continuity reinforcement will be cast in ready to tie the new insitu ground floor slab. Basement waterproof barrier treatment can now be applied to the waterproof specialists' specification.



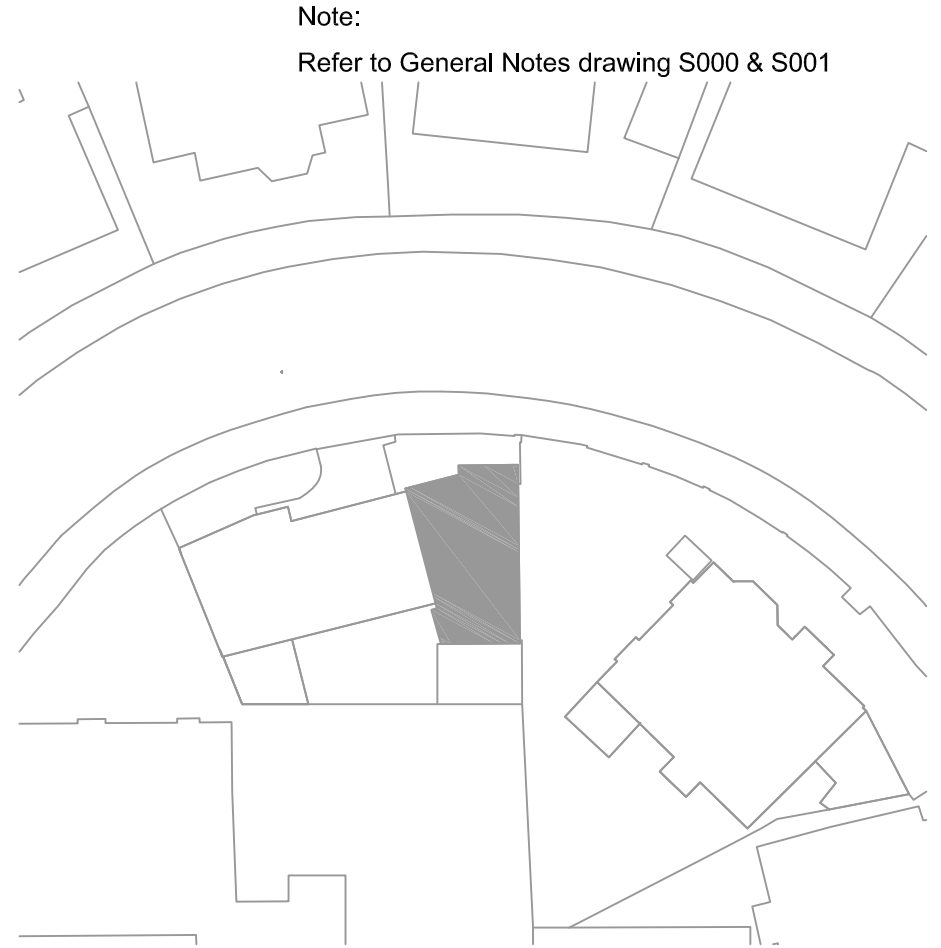
Stage 6 - Ground Floor Installation

Scale 1:50

The ground floor slab formwork and reinforcement are now placed. The slab is cast and once it has reached its 21-day strength will act as a stiff prop at ground floor level. The flying and knee braces can then be removed. The movement monitoring regime should have a minimum 2 weeks cool down period followed by 2 monthly visits as a transition period following the removal of the flying prop and knee brace. This cool down and transition period ensures the earth has mobilised sufficiently and ground movement has ceased.



Floor Plan



Key Plan

Scale 1:500

Note:
Refer to General Notes drawing S000 & S001

P4	Updated to Architect's details	11.11.19	KHD
P3	SSL change	31.05.19	KHD
P2	General update	24.05.19	KHD
P1	Issued for Comment	13.05.19	KHD

REV	COMMENTS	DATE	CHK
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STATUS

COMMENTS

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DRAWING TITLE
**TEMPORARY WORKS
Sheet 1 of 2**

SCALE	DRAWN BY	DATE
1:50	AB	25.04.19

DRAWING No.	REV
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218136-S- P002
P4