

Construction Method Statement on behalf of, Mr Susskind

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1.0 Introduction

1.0.1 The purpose of this Construction Method Statement (CMS) is to outline our approach to managing the construction works relating to the proposed basement at No. 30 Ellerdale Road consented under planning ref: 2014/2126/P.

1.0.2 Condition 5 requires a Construction Method Statement to be submitted and approved before the basement is implemented. This document includes specific comments on the site establishment, logistics, and the process of managing the overall environment surrounding the property. It will also ensure that the construction works cause the minimum disruption to the adjacent residents with a safe working and living environment maintained.

1.0.3 Liaison with the neighbours and interested parties will continue throughout the project, as information is updated and as the project develops. Particular attention will be paid to ensure that the neighbours are kept appraised of progress and future works on the project. The information provided in this document is an overview of the key project activities at No. 30 Ellerdale Road.

2.0 Site Location & Access

2.1 Site Location and Anticipated **Ground Conditions**

2.1.1 The subject site is occupied by a 2-storey detached building with hipped roof on the western side of Ellerdale Road. The site slopes down 3m from the front to the rear of the property. The rear garden is currently divided into 3 tiers in response to the slope. The majority of the rear gardens on the western side of Ellerdale Road have been graded such that they step down with the land. The surrounding area is predominantly residential and is typically characterised with Victorian and Edwardian architecture. The site is located in the Redington and Frognal Conservation Area.

From a preliminary desk study 2.1.2 considering geological maps and historical borehole records (see Appendix B), it is considered likely that the ground conditions will consist of a stratum of made ground overlying a deep stratum of London Clay. Actual ground conditions will be confirmed at a later project stage.

2.2 Access Arrangements

2.2.0 Access to the site for road traffic. pedestrians and cycles is via Ellerdale Road. It is a two-way street which intersects with Arkwright Road at Fitzjohn's Avenue at its ends.

2.2.1 Access to the site by public transport is by Hampstead Underground Station located approximately 400m to the north of the site. A nearby bus stop at The Fitzjohn's Avenue (stop C) is served by bus routes 46, 603.

2.2.2 Resident's parking is present on Ellerdale Road (see Figure 5 for further details). Limited suspension of parking may be required for deliveries (Subject to confirmation of final deliveries strategy by contractor at a later project stage).



Figure 1 - Site location

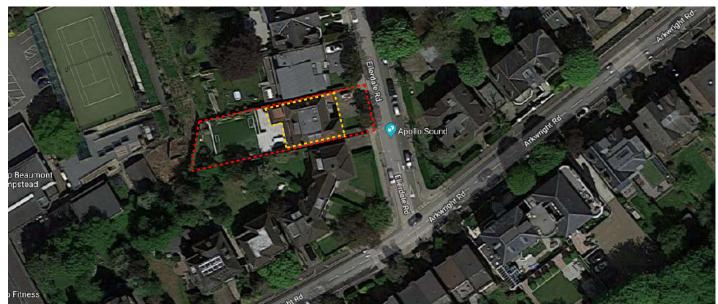


Figure 2 - Aerial view of site

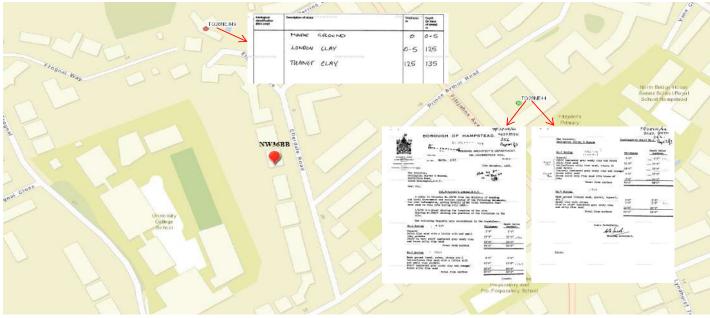


Figure 3 - Local boreholes (information taken from British Geological Survey)



3.0 The Project

3.0.1 The project consists of the construction of a new basement under the existing property.

4.0 Phasing and **Construction Programme**

4.0.1 The project will be divided into four phases:

- Minor srip out and site clearance
- Construction of sub-structure
- Construction of super-structure
- External works/landscaping

4.0.2 For the purpose of estimating a construction programme, the following has been assumed:

• Proposed basement under existing building will be constructed using underpinning sequence

 Contiguous piles will be installed along the two sides of the perimeter of the basement

• Excavation will be carried out to the formation level of the basement raft foundation

• The structural solution is likely to be a reinforced concrete frame, with flat slab spanning between RC retaining walls and supported by RC columns

A detailed construction programme is to be developed by the main contractor as part of the tendering process. This will include the details of a 24 hour emergency contact. According to Transport for London guidance document "Construction logistics plan guidance for developers", the site is classified as "low impact".

5.0 Site Establishment and Logistics

5.0.1 At the outset the contractor will establish the site set up in line with the phasing/ logistics plan contained within Appendix A, or an approved alternative proposal developed at a later project stage.

5.1 Hoarding

5.1.1 A solid hoarding will be erected to the front elevation of the site and along the boundary walls, with a personnel site entrance gate at the front. It will be painted and kept in a clean and tidy condition throughout the works. All hoardings/fencing will be regularly checked and maintained in a clean and tidy condition and signage will be positioned so it is clearly visible to warn members of the public of any potential hazards surrounding the site. The site accommodation will be located within the forecourt, leaving the pavement access to remain clear. The site will be maintained in a safe and tidy manner with the implementation of good housekeeping procedures regularly checked by our Health and Safety Advisor on fortnightly site inspections and be set up with temporary power, water and drainage throughout the duration of the works. We will also register the site under the Considerate Constructors scheme and we will therefore comply with the scheme's Code of Practice.

5.2 Hours of Work

5.2.1 Core working hours will be limited to:

- Monday to Friday, 08:00 to 18:00 hours
- Saturday, 08:00 to 13:00 hours

• No working on Sundays, Bank Holidays or Public Holidays

5.3 Deliveries and Vehicle Routing

5.3.1 Access for deliveries will be via Ellerdale Road.

5.3.2 Due to access restrictions it is not anticipated that deliveries will enter the rear part of the site directly. It is anticipated that due to the nature of the proposed materials, manual handling and simple trolleys/pallet lifters will be sufficient to transport materials from the loading bay into site.

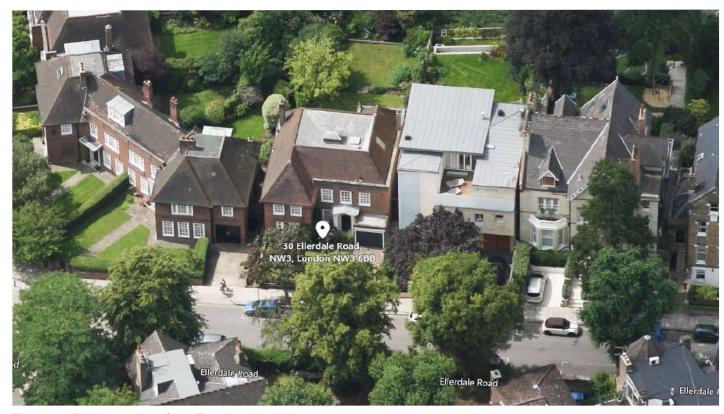


Figure 4 - Bird's eye view from East, looking West



Figure 5 - Parking conditions are as per the photograph taken outside 30 Ellerdale Road



5.3.3 It is anticipated that delivery vehicles will arrive at the site via Ellerdale Road, as discussed in part 2.2.0 of this report. Upon appointment, the principal contractor is to discuss the exact routing of vehicles with the council's transport planning team and agree exact routing to keep any disruption to neighbouring homes and businesses to a minimum.

5.3.4 Should any large or exceptional loads be involved in any deliveries, all relevant permits will be obtained from the council and/or Highways Agency.

5.3.5 The contractor will liaise closely with neighbours, local businesses and the council's transport planning team to ensure restrictions are identified and adhered to and deliveries are well managed.

5.3.6 Wheel wash stations will be provided at the exit to the site (see Appendix A) to prevent mud being tracked onto the public highway by vehicles exiting site.

5.3.7 Anticipated number of vehicles during construction phase and the type which will be used is presented on the figures 10-11.

5.4 Suspensions and closures

5.4.1 A temporary suspension of resident's parking on Ellerdale Road may be required (Refer to appendix A).

5.5 Storage of Materials on Site

5.5.1 Secure plant and material storage will be provided (see Appendix A).

5.5.2 There will be separate storage for flammable liquids.

5.5.3 No material will be stored outside the site boundary.

5.5.4 Materials will be ordered on a 'just in time' basis wherever possible to minimise the amount of material to be stored on site.

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5.6.1 All deliveries to site are to be pre-arranged using a booking system, to avoid vehicles having to queue or wait outside the site boundary.

5.6 Distribution of Materials on Site

5.6.1 Delivered and offloaded materials will be distributed around site by manual handling and pallet lifters + trolleys.

5.6.2 Due to the anticipated method of construction and site constraints, it is anticipated that a block and tackle system will be sufficient for any lifting.

5.7 Parking

5.7.1 Some suspension of residents' parking bays may be required in Ellerdale Road for deliveries. Appropriate licenses will be sought as required.

5.7.2 Site personnel will be encouraged to use alternative means (public transport, cycling) to travel to site.

5.7.3 Site vehicles will not be allowed to park outside the site compound, unless in emergency situations or short term for deliveries in designated bays.

5.8 Access/egress to site and manoeuvring of vehicles

5.8.1 Routes for ambulances and fire engines will be kept clear at all times.

5.8.2 The access gates to site will be securely locked outside normal working hours.

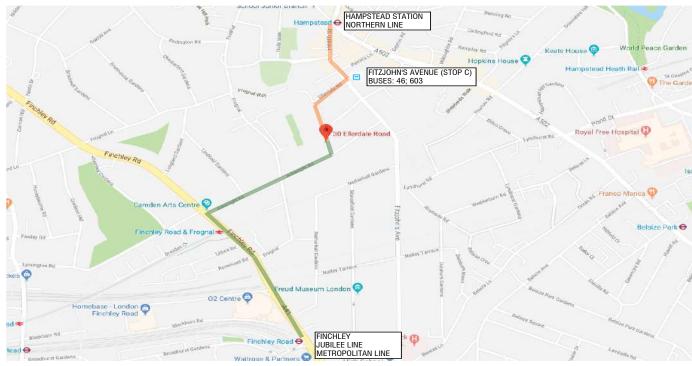


Figure 6 - Location of Transport for London assets



Figure 7 - Proposed access route

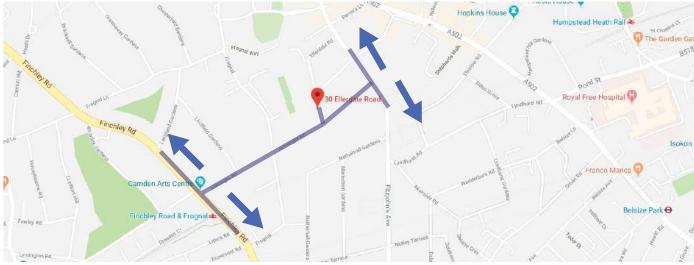


Figure 8 - Proposed egress route



5.9 Number and Type of Vehicles

5.9.1 Deliveries will be programmed between 9.00am and 6.00pm.

5.9.2 Numerous types of delivery vehicles will be used to bring materials to and from the site. This include:

• Small vans and pickups trucks (approximate size 6m long x 2.1m wide)

• Pump sets for concrete works, depending on the quantity of concrete being poured

· Ready mix concrete lorries (approximate size 9.5m long and 2.6m wide)

5.9.3 The projected vehicle movements are approximate and all delivery patterns will vary in dependence of day-to-day site needs, work progress, material availability etc.

 Demolition works and site set-up - up to 2 per day

 Basement excavation and piling – up to 4 per day

• Substructure – up to 4 per day

Superstructure – up to 3 per day

5.9.4 We have carried out a preliminary assessment of vehicle movements against the programme. The anticipated figures are as follows:

· Average anticipated vehicle movements per day = 3 no

• Maximum anticipated daily vehicle movements = 5 no.

5.9.5 The dwell time will be a maximum of 20 minutes. Any vehicle arriving at site before or after the hours of delivery may be turned away.

5.10.1 Good quality health and welfare facilities will be established on site throughout the construction phase. The welfare facilities will consist of:

- Male, female and disabled toilets
- Shower
- Drying Room
- Emergency eye wash station

5.10.2 The site facilities will be shown on a welfare plan which will be displayed in the site offices and within the Health & Safety file.

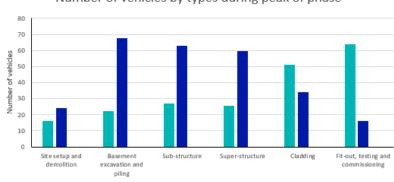
5.10.3 Welfare facilities will be maintained daily in good order. The First Aid box will be maintained.

	/	31 ²⁹	NE LE	eg 19	e'r?	04.12	ee
Site setup and demolition							
Basement excavation and piling							
Sub-structure							
Superstructure							
Cladding							
Fit-out, testing and commisioning							

Figure 9 - Proposed construction programme

Construction phase		Schedule			Jul-2019	Aug-2019	Sep-2019	Oct-2019	Nov-2019	Dec-2019	Jan-2020	Feb-2020	Mar-2020	Apr-2020	May-2020	Jun-2020	Jul-2020	Aug-2020	Sep-2020	Oct-2020
	Start month (mmm/yyyy)	End month (mmm/yyyy)	Duration (Number of months)	Month number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Site setup and demolition	Jul-2019	Jul-2019	1	1	40															
Basement excavation and piling	Aug-2019	Dec-2019	5	2		75	60	70	80	60										
Sub-structure	Dec-2019	Mar-2020	4	6						30	70	80	40							
Super-structure	Mar-2020	Apr-2020	2	9									40	55						
Cladding	Apr-2020	May-2020	2	10										30	40					
Fit-out, testing and commissioning	May-2020	Oct-2020	6	11											40	50	50	30	30	20
			Mo	nthly total	40	75	60	70	80	90	70	80	80	85	80	50	50	30	30	20
			Average	daily total	2	3	3	3	3	4	3	3	3	4	3	2	2	1	1	1

Figure 10 - Anticipated number of vehicles during construction phase



■≤3.5t ■3.5t-7.5t ■≥7.5t

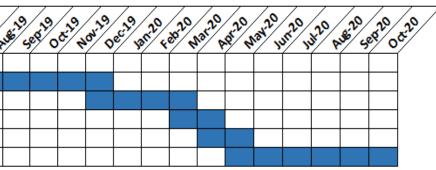
Figure 11 - Number of vehicles by types during peak of phase



Figure 12 - Typical Light Weight Vehicle (<3.5t)







Number of vehicles by types during peak of phase

Figure 13 - Typical Heavy Weight Vehicle (>3.5t)

6.0 Construction and Demolition

6.1 Anticipated Activities

6.1.1 The anticipated activities to be performed on site are as follows:

- Site establishment
- Ground excavation (including temporary supports as required)
- Construction of new substructure
- · Construction of underground drainage and buried services
- MEP service installation
- Internal fit out
- External works and landscaping
- Snagging, testing and commissioning

6.2 Control of Noise, Dust and Vibration

6.2.1 Following appointment, the main contractor is to prepare a detailed method statement for each construction and demolition activity, outlining the specific measures to be employed to control the emission of noise, vibration and dust, in accordance with the best practice guidance given in BS5288:2009.

6.2.2 As a minimum, dust emission mitigation measures will include using a fine mist water spray on site to reduce airborne dust during demolition and plant movements, and providing sheeting to all lorries and skips leaving site.

6.2.3 As a minimum, measures to mitigate noise and vibration will include the use of silencing equipment and baffles on plant. Cutting and grinding will be avoided wherever possible. Demolition of the existing wall will be undertaken by disassembling its existing frame. If unavoidable cutting, grinding and breaking techniques will be undertaken in such a way as to minimise noise and dust.

6.2.4 Regular reviews and consulations will be done, as required.

6.3 Impact of construction traffic with respect to other development

6.3.1 Upon appointment, and at a later stage in the project, if other projects will take place, the contractor will collaborate with others in order to coordinate planning and traffic management with other developments.

6.4 Highway safety & congestion measures

6.4.1 Impacts on the local community from construction traffic for the proposed developments will be minimised and public access will be maintained where reasonably practicable.

6.4.2 Following appointment, the main contractor is to prepare a detailed construction traffic management plan containing measures to minimise the risk or traffic congestion.

6.4.3 Measures are likely to include:

• Deliveries being phased and controlled on a 'just in time' basis

• The setting of specific delivery and collection times

• Traffic marshalling while vehicles enter and exit construction areas

Consolidation of deliveries where possible

• Prior authorisation to be scheduled with the logistics manager when visiting the site via vehicle:

• In the event of unusual activities or events that can be anticipated, London Borough of Camden and other relevant adjacent property owners or occupiers would be notified, in advance of the activity, wherever possible.

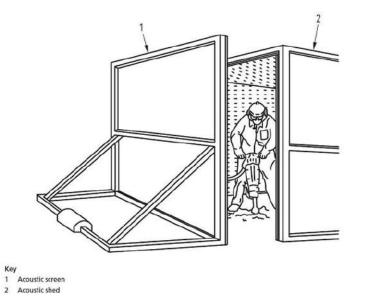


Figure 12 - Temporary Noise Barrier



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Figure 13 - Temporary Dust Partition on site



6.5 Protection of Existing Environmental Features

6.5.1 Temporary fencing will be provided to protect existing environmental features to be retained, including existing trees which will be protected in accordance with BS58372012-'Trees in relation to design, demolition and construction - Recommendations'. The fencing will be established prior to the start of the construction works. The location will be agreed on site with the Construction Environmental Manager and client. The fencing will be of sufficient durability to be in place for the duration of the works.

6.6 Measures to safeguard amenity of surrounding residential and other sensitive uses

6.6.1 The measures detailed in part 6 of this report will be adopted in order to avoid causing any adverse effect on residential amenity or local environmental quality, limiting the impact of noise, vibration, smells, increased late night activity, increased parking and traffic.

6.6.2. The construction method will look to balance reducing the number of vehicular movements on the network whilst ensuring those vehicles are of a size that will not give rise to adverse impact on residential amenities or highways.

6.7 Health and Safety

6.7.1 Personal protective equipment (PPE) suitable to prevailing conditions will be used by all operatives and visitors.

6.7.2 A full briefing will be given to all operatives working on site and visitors as part of their site induction process.

6.8 Environmental Management Plan

6.8.1 The principal contractor is to prepare all environmental management method statements following appointment.

6.9 Site Waste Management Plan

6.9.1 A full asbestos survey may be required prior to strip out activities beginning on the existing commercial premises. Should asbestos be found, it is to be safely removed by a specialist and disposed of at a licensed facility.

6.9.2 All materials arising from strip out will be broken down into constituent materials for recycling.

6.9.3 Surplus/waste materials will be placed in segregated skips for removal from site to a registered waste processing centre and will be recycled where possible.

6.9.4 No fires will be permitted on site for the burning of materials.

6.9.5 Upon appointment, and at a later stage in the project, the contractor is to develop a detailed scheme for the disposal and recycling of all arising from demolition and excavation.

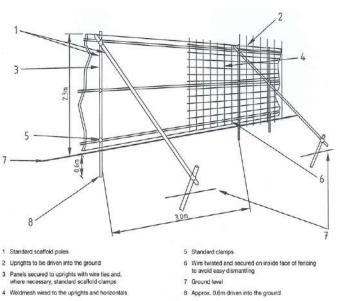


Figure 14 - Protective Fencing for Root Protection Area Fig



Figure 16 - Personal Protective Equipment symbols

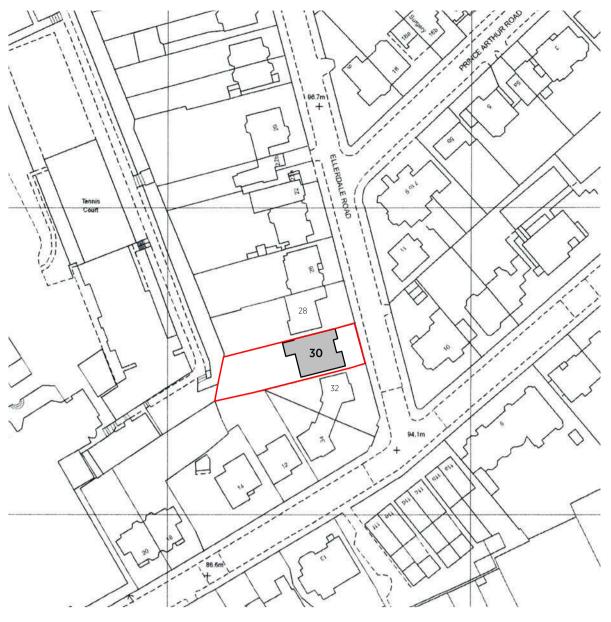




Figure 15 - PPE safety equipment

Appendix A - Anticipated Site Logistics Plan - Construction Phase









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LP DP

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5. ALL PROPRIETARY ITEMS TO BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND SPECIFICATIONS 6. ALL WATERPROOFING SUCH AS TANKING DETAILS, DAMP PROOF MEMBRANES, DAMP PROOF COURSES, CAVITY TRAYS ETC. ARE TO BE INSTALLED AS PER

> **REVISION:** P-1

DRAWING TITLE: APPENDIX A - ANTICIPATED SITE LOGISTIC PLAN -CONSTRUCTION PHASE STATUS: CHECKED: **DP** SCALE: NTS @A1 DRAWN: PRELIMINARY LP

Appendix B - Site Analysis - Ground Conditions



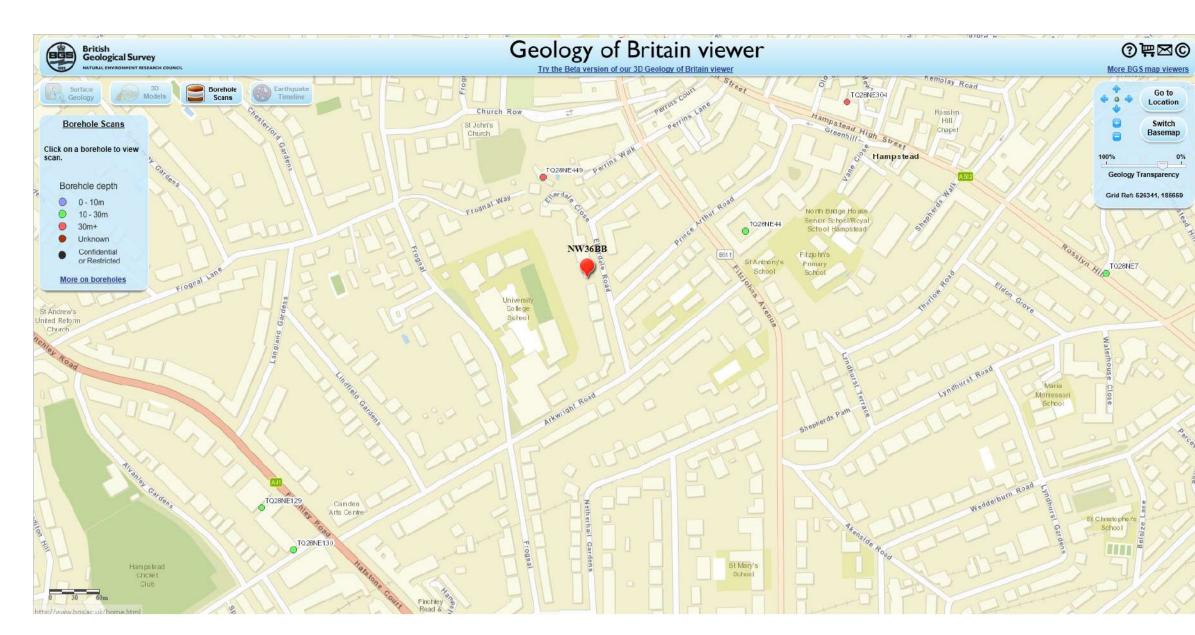


Fig 1. Local Borehole Records



Fig 2. Local Superficial Geology

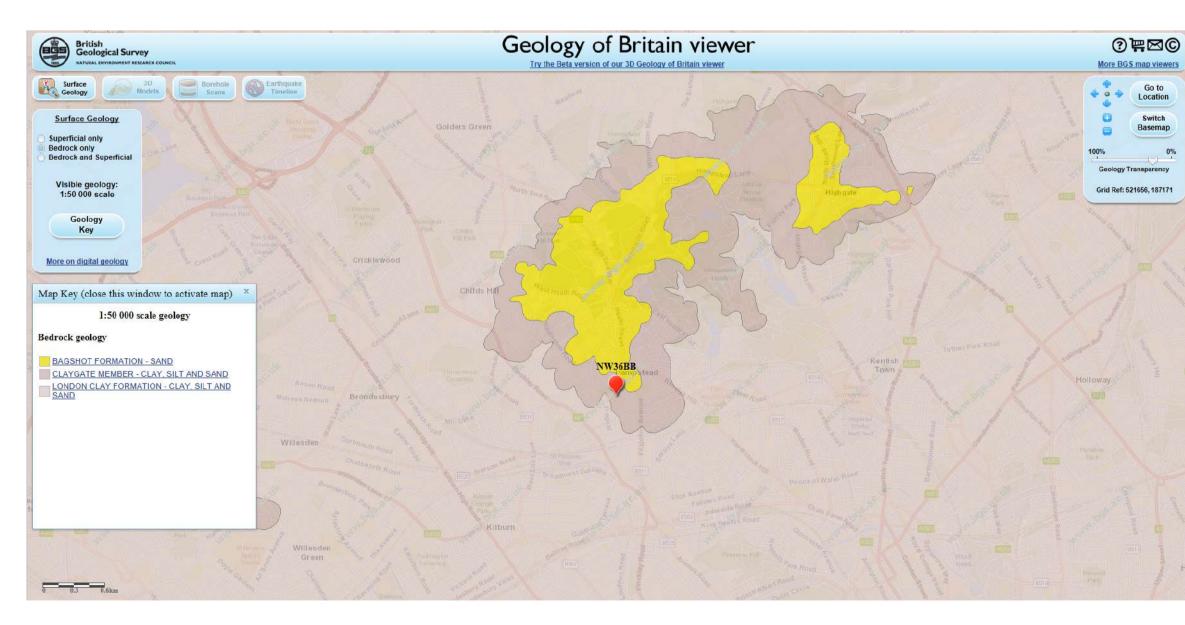
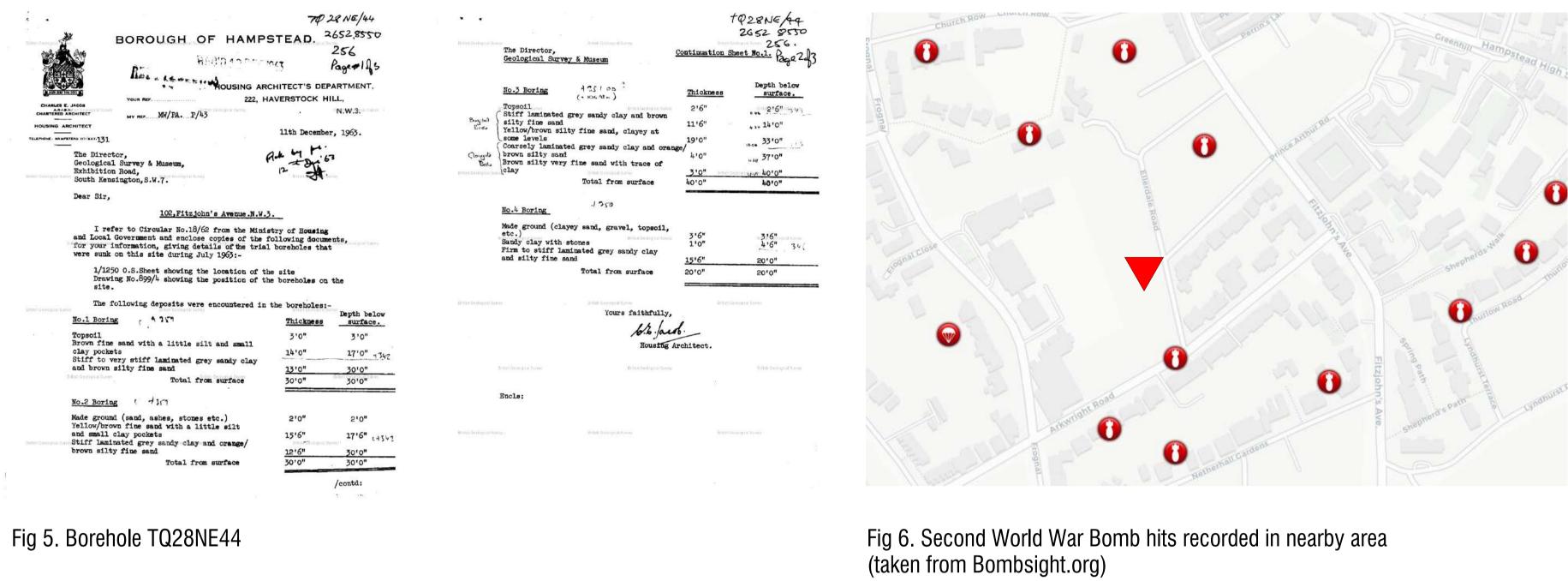


Fig 3. Local Bedrock Geology

Geological classification (BGS only)	Description of strata ^h Geological Survey	Britist Chickness m	Depth (to base of strata) m
	MADE GROUND	0	0.5
Seological Survey	LONDON CLAY British Geological Survey	0-5	125
senogical oursey	TUANET ELAY.	125	135

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Fig 4. Borehole TQ28NE449



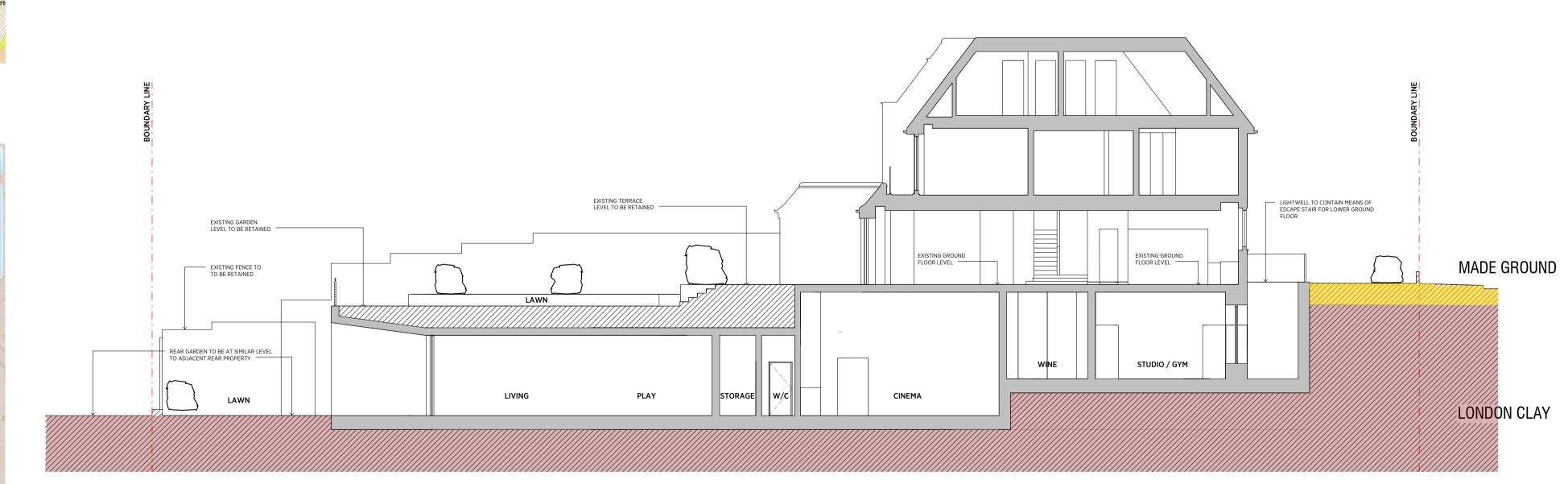


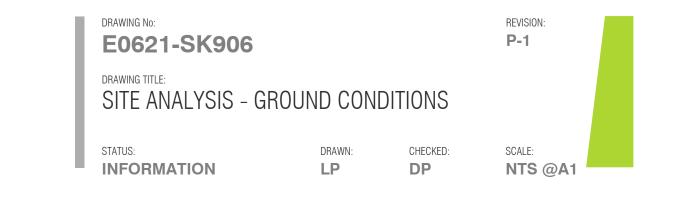
Fig 7. Assumed Site Ground Conditions

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