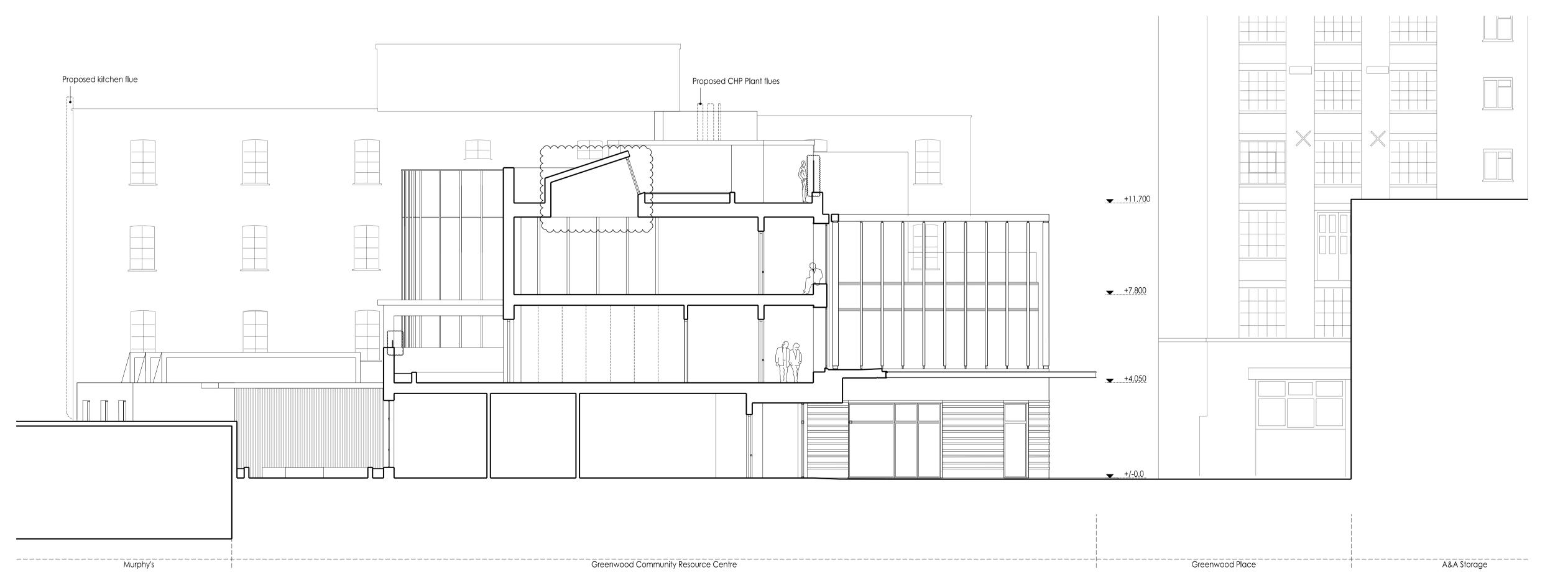


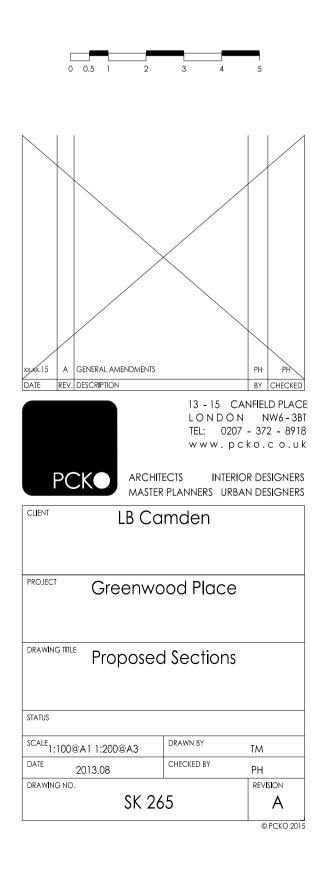
KEY PLAN

GENERAL NOTES

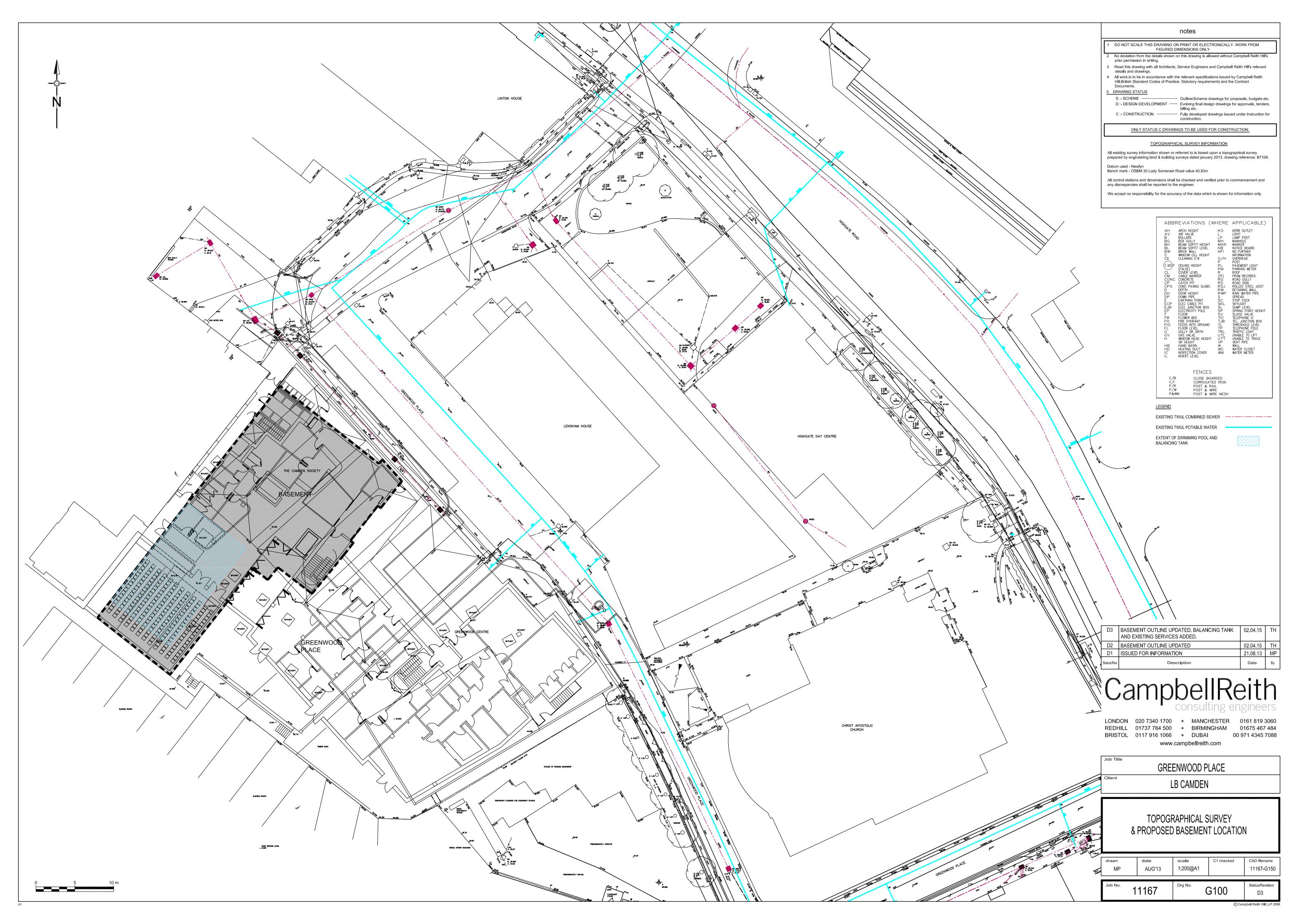
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APPLICABLE.
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FRAME MANUFACTURENS DESIGN, DETAIL AND SPECIFICATION.
ALL STRUCTURAL ELEMENTS ARE SHOWN INDICATIVELY, FOR ALL ELEMENTS OF STRUCTURE REPER TO STRUCTURAL
ENGINEERS AND SPECIALIST SUB-CONTRACTOR/FABRICATOR'S DESIGN, DETAIL AND SPECIFICATION.
ALL MECHANICAL AND ELECTRICAL ELEMENTS ARE SHOWN INDICATIVELY, FOR ALL MAE INSTALLATIONS REFER
TO BUILDING SERVICES ENGINEER'S AND SPECIALISTS SUB-CONTRACTOR'S DESIGN, DETAIL AND SPECIFICATION.

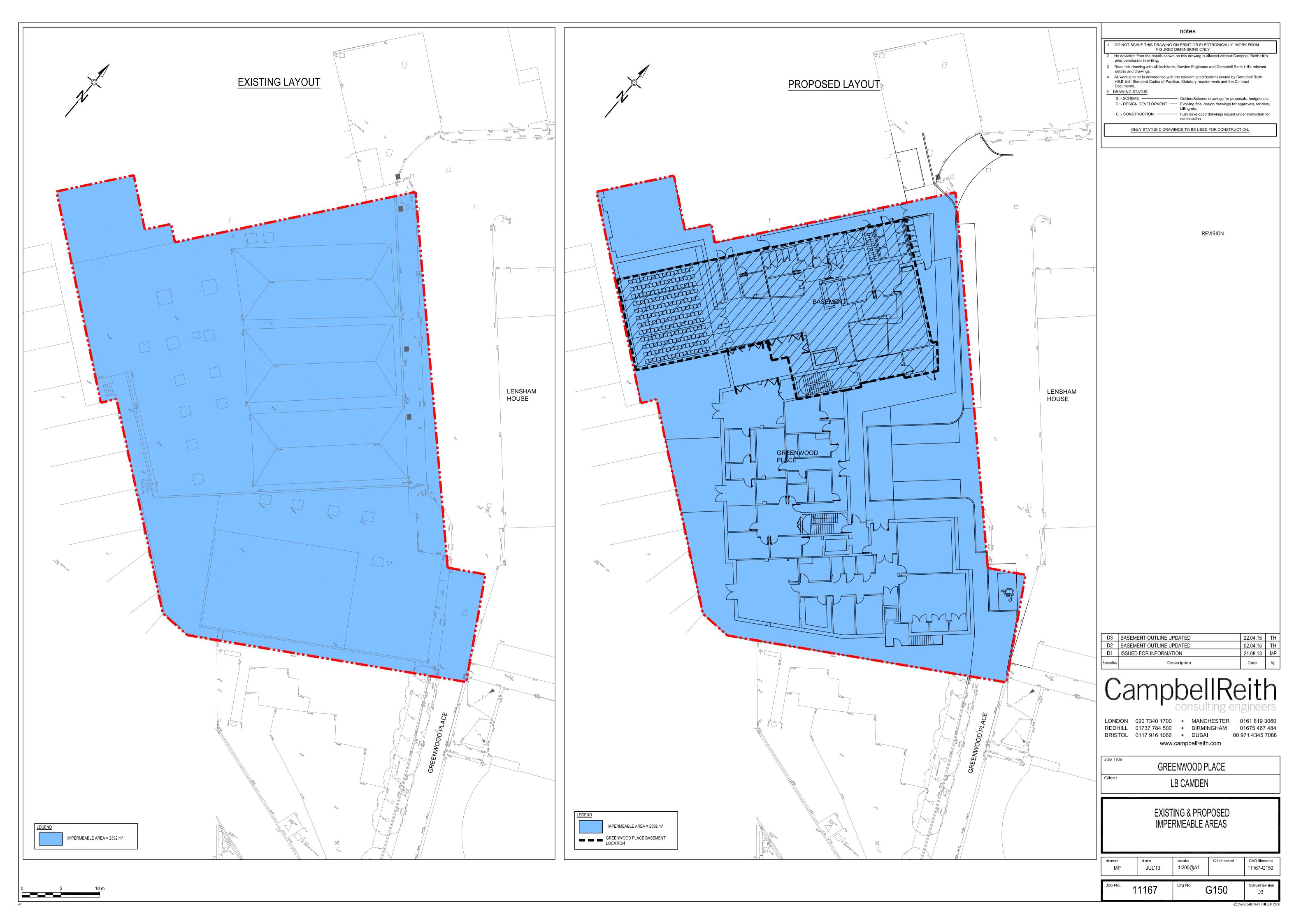
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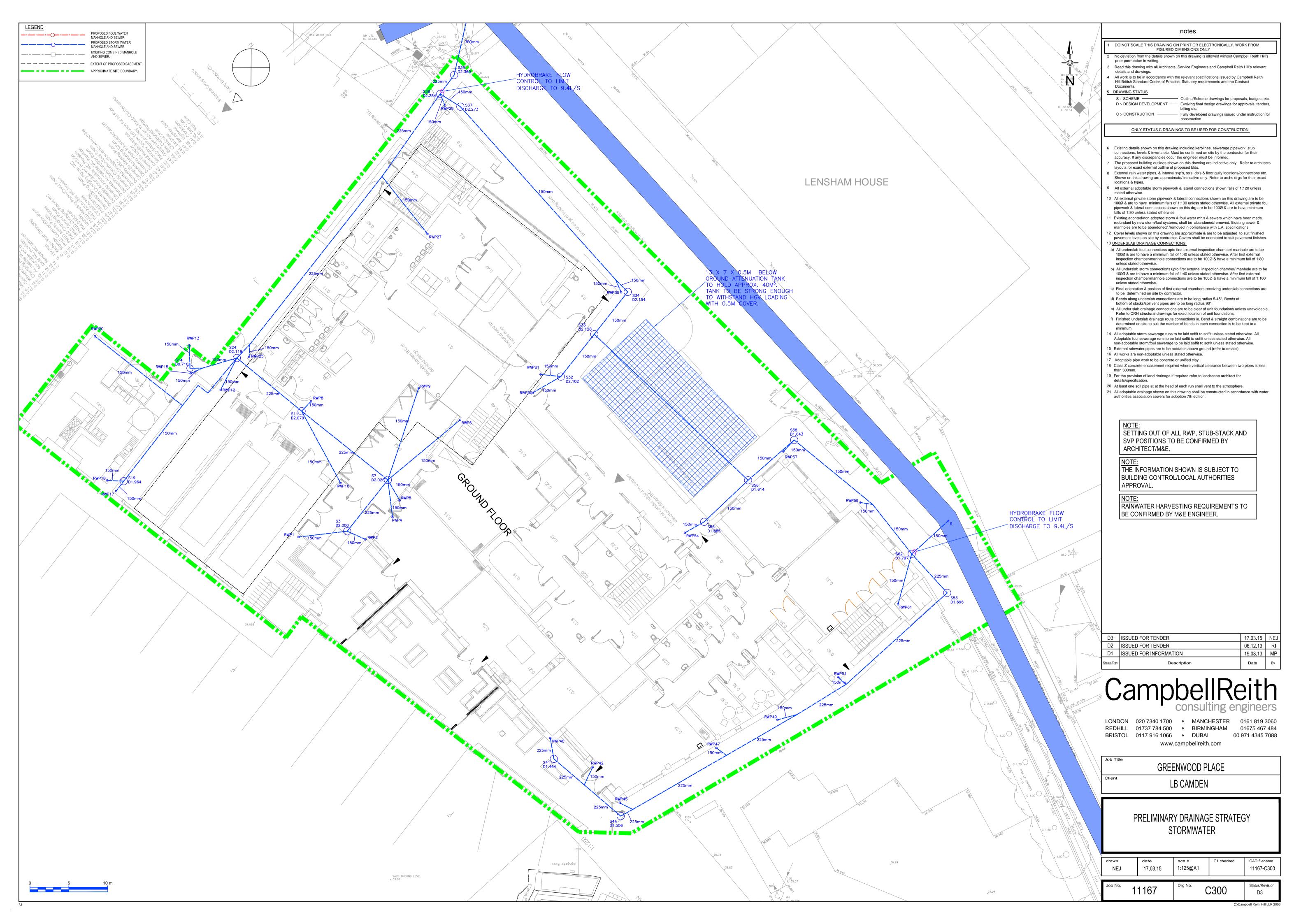


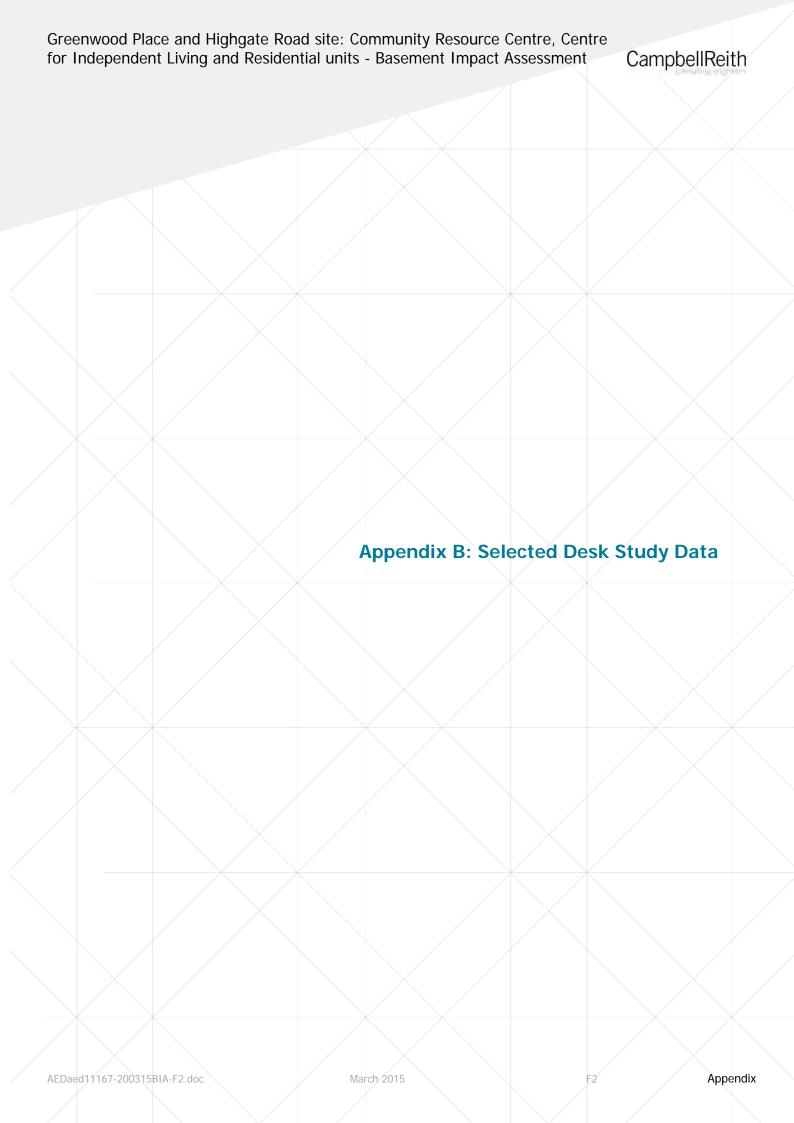














EmapSite Masdar House, Eversley, RG27 0RP Report Reference: EMS-

184935_271160

Your Reference:

EMS_184935_271

160

Report Date
Report Delivery

Email - pdf

Nov 8, 2012

Method:

GroundSure GeoInsight

Address: Greenwood Place Community Centre

Dear Sir/Madam,

Thank you for placing your order with GroundSure. Please find enclosed the **GroundSure GeoInsight** as requested.

If you would like further assistance regarding this report then please contact the emapsite customer services team on 0118 9736883 quoting the above report reference number.

Yours faithfully,

emapsite customer services team

Enc.

GroundSure GeoInsight





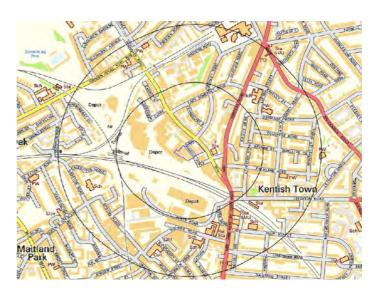
GroundSure GeoInsight

Address: Greenwood Place Community Centre

Date: Nov 8, 2012

Report Reference: EMS-184935_271160

Your Reference: EMS_184935_271160



Brought to you by emapsite







Aerial Photograph of Study Site



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2003. All Rights Reserved.

Site Name: Greenwood Place Community Centre

Grid Reference: 528833,185396

Size of Site: 0.57 ha



Report Section



Number of records found within (X) m of the study site

Overview of Findings

The GroundSure GeoInsight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Shallow Mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and GroundSure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

	,
1. Geology	Description
1.1 Artificial Ground,	
1.1.1 Is there any Artificial Ground /Made Ground present beneath the study site?* $$	Yes
1.1.2 Are there any records relating to permeability of artificial ground within the study site* boundary?	No
1.2 Superficial Geology & Landslips	
1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?*	No
1.2.2 Are there any records relating to permeability of superficial geology within the study site* boundary?	No
1.2.3 Are there any records of landslip within 500m of the study site boundary?	No
1.2.4 Are there any records relating to permeability of landslips within the study site* boundary?	No
1.3 Bedrock, Solid Geology & Faults	
1.3.1 For records of Bedrock and Solid Geology beneath the study site $\!\!\!\!\!^*$ see the detailed findings section.	
1.3.2 Are there any records relating to permeability of bedrock within the study site* boundary?	Yes
1.3.3 Are there any records of faults within 500m of the study site boundary?	No
1.3.4 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level
1.3.5 Is the property in an area where Radon Protection Measures are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	No radon protective measures are necessary

* This includes an automatically generated 50m buffer zone around the site

Source:Scale 1:50,000 BGS Sheet No:256





2. Ground Workings	on-site	0-50	51-250	251-500	501-1000
2.1 Historical Surface Ground Working Features from Small Scale Mapping	0	2	8	-	-
2.2 Historical Underground Workings Features from Small Scale Mapping	0	0	8	13	16
2.3 Current Ground Workings	0	0	0	0	0
3. Mining, Extraction & Natural Cavities	on-site	0-50	51-250	251-500	501-100
3.1 Historical Mining	0	0	0	3	0
3.2 Coal Mining	0	0	0	0	0
3.3 Johnson Poole and Bloomer Mining Area	0	0	0	0	0
3.4 Non-Coal Mining*	0	0	0	0	0
3.5 Non-Coal Mining Cavities	0	0	0	0	0
3.6 Natural Cavities	0	0	0	0	0
3.7 Brine Extraction	0	0	0	0	0
3.8 Gypsum Extraction	0	0	0	0	0
3.9 Tin Mining	0	0	0	0	0
3.10 Clay Mining	0	0	0	0	0
This includes an automatically generated 50m buffer zone around	the site				
4. Natural Ground Subsidence	on-site*	0-50	51-250	251-500	501-1000
4.1 Shrink-Swell Clay	Moderate	-	-	-	-
4.2 Landslides	Low	-	-	-	-
4.3 Ground Dissolution of Soluble Rocks	Null	-	-	-	-
4.4 Compressible Deposits	Negligible	-	-	-	-
4.5 Collapsible Deposits	Very Low	-	-	-	-
4.6 Running Sand	Very Low	-	-	-	-
This includes an automatically generated 50m buffer zone around	the site				
5. Borehole Records	on-site	0-50	51-250	251-500	501-1000
5.1 BGS Recorded Boreholes	0	0	2	-	-
6. Estimated Background Soil Chemistry	on-site	0-50	51-250	251-500	501-1000
6.1 Records of Background Soil Chemistry	1	0	0	-	-



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1.1 Artificial Ground Map

Parliament Hill Crown Copyright. All Rights Artificial Ground Legend Ordnance Survey Reserved Licence Number: 100035207 Made Ground Disturbed Ground (undivided) (undivided) Site Outline Landscaped Ground Worked Ground (undivided) (undivided) Search Buffers (m) 1000 Infilled Ground Reclaimed Ground

Geological information represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.





1.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:256

1.1.1 Artificial/Made Ground

Are there any records of Artificial/Made Ground within 500m of the study site boundary?

Yes

ID	Distance (m)	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	WGR-OPEN	WORKED GROUND	VOID
				(UNDIVIDED)	
2	345.0	W	WGR-OPEN	WORKED GROUND	VOID
				(UNDIVIDED)	
3	354.0	NE	WGR-OPEN	WORKED GROUND	VOID
				(UNDIVIDED)	

1.1.2 Permeability of Artificial Ground

Are there any records relating to permeability of artificial ground within the study site* boundary?

No

Database searched and no data found.

 $^{\ ^{*}}$ This includes an automatically generated 50m buffer zone around the site.





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1.2 Superficial Deposits and Landslips Map

NW Parliament Hill SW Crown Copyright. All Rights Reserved Licence Number: 100035207 Superficial and Landslips Legend Site Outline

Geological information represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

Report Reference: EMS-184935_271160

Search Buffers (m)





1.2 Superficial Deposits and Landslips

1.2.1 Superficial Deposits/Drift Geology

Are there any records of Superficial Deposits/Drift Geology within 500m of the study site boundary? No Database searched and no data found.

1.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site* boundary? No Database searched and no data found.

1.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary?

No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

1.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site* boundary?

No

Database searched and no data found.

^{*}This includes an automatically generated 50m buffer zone around the site.



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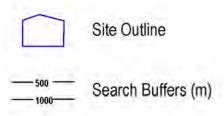
1.3 Bedrock and Faults Map

Parliament Hill SE

Bedrock & Faults Deposits Legend



Crown Copyright. All Rights Reserved Licence Number: 100035207



Geological information represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.





1.3 Bedrock, Solid Geology & Faults

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:256

1.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

ID	Distance (m)	Direction	LEX Code	Rock Description	Rock Age	
1	0.0	On Site	LC-CLSS	London Clay Formation - Clay, Silt And Sand	Eocene	

1.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site* boundary?

Yes

Distance (m)	Direction	Flow type	Maximum Permeability	Minimum Permeability
0.0	On Site	Mixed	Moderate	Very Low

1.3.3 Faults

Are there any records of Faults within 500m of the study site boundary?

No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as Faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

1.3.4 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?

The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level

1.3.5 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?

No radon protective measures are necessary

st This includes an automatically generated 50m buffer zone around the site.



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2. Ground Workings Map

unnel Depot LOSE ch Kentis Depot SE Crown Copyright. All Rights Reserved Licence Number: 100035207 Ground Workings Legend Ordnance Survey Historic Surface Ground Workings Site Outline Historic Underground Workings Search Buffers (m)

Current Ground Workings





2. Ground Workings

2.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on GroundSure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping.

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? Ye

The following Historical Surface Ground Working Features are provided by GroundSure:

ID	Distance (m)	Direction	NGR	Use	Date
1	21.0	SW	528809,185315	Cuttings	1869
2	46.0	NW	528695,185431	Unspecified Heap	1894
3	199.0	SW	528606,185260	Unspecified Ground Workings	1913
4A	213.0	W	528552,185498	Unspecified Ground Workings	1869
5A	213.0	W	528552,185498	Unspecified Ground Workings	1879
6A	213.0	W	528552,185498	Unspecified Ground Workings	1879
7	224.0	N	528807,185675	Unspecified Ground Workings	1913
8	225.0	N	528850,185755	Unspecified Heap	1938
9B	227.0	N	528878,185753	Unspecified Heap	1965
10	227.0	N	528878,185753	Unspecified Heap	1958
В					

2.2 Historical Underground Workings Features derived from Historical Mapping

This data is derived from the GroundSure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary?

Yes

The following Historical Underground Working Features are provided by GroundSure:

	5:. ()	5: .:	NOD		
ID	Distance (m)	Direction	NGR	Use	Date
11C	227.0	W	528516,185357	Tunnel	1995
12C	227.0	W	528516,185357	Tunnel	1958
13C	227.0	W	528516,185357	Tunnel	1974
14C	227.0	W	528516,185357	Tunnel	1965
15D	232.0	W	528502,185380	Tunnel	1995
16D	232.0	W	528502,185380	Tunnel	1958
17D	232.0	W	528502,185380	Tunnel	1974
18D	232.0	W	528502,185380	Tunnel	1965
19E	258.0	W	528484,185446	Tunnel	1995
20E	258.0	W	528484,185446	Tunnel	1958
21E	258.0	W	528484,185446	Tunnel	1974
22E	258.0	W	528484,185446	Tunnel	1965
23F	269.0	W	528501,185465	Unspecified Shaft	1995
24F	269.0	W	528501,185465	Unspecified Shaft	1974
25F	270.0	W	528498,185464	Unspecified Shaft	1965
Not	345.0	NW	528691,185756	Tunnel	1958
shown					
Not	345.0	NW	528691,185756	Tunnel	1974
shown			•		
Not	345.0	NW	528691,185756	Tunnel	1965
shown					





Not shown	353.0	N	528750,185788	Tunnel	1958
Not	353.0	N	528750,185788	Tunnel	1974
shown	333.0	14	320730,103700	runner	1374
Not	353.0	N	528750,185788	Tunnel	1965
shown	333.0	.,	3207307103700	ranner	1505
Not	688.0	W	528025,185363	Tunnel	1995
shown	000.0	••	323323,133333		2555
Not	688.0	W	528025,185363	Tunnel	1974
shown					
Not	688.0	W	528025,185363	Tunnel	1965
shown					
Not	929.0	W	527029,185170	Tunnel	1995
shown			·		
Not	929.0	W	527029,185170	Tunnel	1974
shown			·		
Not	932.0	W	527029,185170	Tunnel	1958
shown					
Not	932.0	W	527029,185170	Tunnel	1965
shown					
Not	960.0	SE	529576,184558	Tunnel	1914
shown					
Not	960.0	SE	529576,184558	Tunnel	1938
shown					
Not	964.0	SE	529574,184527	Tunnel	1873
shown					
Not	964.0	SE	529574,184527	Tunnel	1873
shown					
Not	970.0	SE	529582,184534	Tunnel	1957
shown					
Not	970.0	SE	529582,184534	Tunnel	1940
shown					
Not	970.0	SE	529602,184492	Tunnel	1973
shown					
Not	970.0	SE	529602,184492	Tunnel	1968
shown					
Not	970.0	SE	529602,184492	Tunnel	1989
shown					

2.3 Current Ground Workings

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary?

No

Database searched and no data found.



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3. Mining, Extraction & Natural Cavities Map

Kentish Town Maitland Park GAISFORD STREET Crown Copyright. All Rights Reserved Licence Number: 100035207 Mining, Extraction & Natural Cavities Ordnance Survey Legend Non-Coal Mining Historical Mining Highly likely Site Outline Likely Non-Coal Mining Cavities Unlikely Search Buffers (m) Highly unlikely **Natural Cavities**

Rare





3. Mining, Extraction & Natural Cavities

3.1 Historical Mining

This dataset is derived from GroundSure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary?

Yes

The following Historical Mining information is provided by Groundsure:

ID	Distance (m)	Direction	NGR	Details	Date
1A	269.0	W	528501,185 465	Unspecified Shaft	1995
2A	269.0	W	528501,185 465	Unspecified Shaft	1974
3A	270.0	W	528498,185 464	Unspecified Shaft	1965

3.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary?

No

Database searched and no data found.

3.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary?

No

The following information provided by JPB is not represented on Mapping:

Database searched. No results found.

3.4 Non – Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary?

No

Database searched and no data found.





3.5 Non - Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled "Review of mining instability in Great Britain, 1990" PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary?

Nο

Database searched and no data found.

3.6 Natural Cavities

This dataset provides information based on Peter Brett Associates natural cavities database.

Are there any Natural Cavities within 1000m of the study site boundary?

No

Database searched and no data found.

3.7 Brine Extraction

This dataset provides information from the Brine Compensation Board which has been discontinued and is now covered by the Coal Authority.

Are there any Brine Extraction areas within 1000m of the study site boundary?

No

Database searched and no data found.

3.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary?

No

Database searched and no data found.

3.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level. More detailed information on potential Tin Mining may be found in Section 3.4 – Non-Coal Mining Hazards.

Are there any Tin Mining areas within 1000m of the study site boundary?

No

Database searched and no data found.

3.10 Clay Mining





This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary?

No

Database searched and no data found.