

1 Earthwork movement volumetric as to achieve regrade levels (based on assumptions in notes column) to topographical survey minus 200mm site strip.

Location	Plan Area of Cut	Plan Area of Fill	Volume of Cut	Volume of Fill	Deficit (-) / Surplus (+)
Site wide			15,130m³	25,080m³	9,950m³
		Net Volumetrics	15,130m³	25,080m³	9,950m³

9,950m³ deficit of material made up from :-
i. 23,480m³ initial strip (screened to remove organic material and re-used, based on Campbell Reitch Geotech logs)
ii. drainage / service arisings.
iii. Piling mat material (if required over deep fill areas) TBC

CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

1. There will be deep excavations for structures and drainage systems. This is a high risk, high severity hazard. The contractor should provide protection and support in accordance with health and safety legislation.
2. Live Services - risks to contractor's personnel - Seek written confirmation from Statutory Authority and/or Building/site owner that all live services - especially electricity services, - have been disconnected or diverted prior to works commencing on site. If any services are to remain live during the construction work, ensure that the locations of these are identified and clearly marked. All operatives are to be made aware of their presence. Employ hand digging near/adjacent to any known live services. Extreme caution to be exercised in the vicinity of the existing overhead power lines.

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing.
Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

General Notes:

1. Volumes have been taken from existing topographical levels supplied by xxxxxxxxxx Ref: xxxx.
2. Criteria for formation depths below finished levels for Roads, Buildings, and Landscape areas, are as agreed with xxxxx, and as noted in Criteria / Assumptions notes.
3. It has been assumed that 300mm of capping material will be required in all Landscape areas.
4. Shared surfaces, drives, footways have been modelled at 450mm below finished levels at this stage.
5. Volumes given do not take into account the suitability of materials, to be re-used in any particular area. Consideration will need to be given to the engineering properties to ensure suitability.
6. The volumetric calculations are based on Finished ground levels indicated on RSK proposed levels
7. The Volumetric exercise should only be taken as a estimation, As works progress on site, reassessment of volumes should be carried out. This should take into account, the suitability for re-use of each class of material based on its engineering properties and end location.
8. Volumes of Building arising's have been based on a standard assumption as noted on the drawings and as agreed with the client.
9. A logistics plan should be developed to manage the stock piling and reuse of materials to ensure suitable material is available when required and surplus material is removed.

Criteria / Assumptions
Existing Ground levels are taken as per the topographical levels survey minus a site wide strip of 200mm. (23,480m³ stockpiled).
Campbell Reitch Geotech Report (Aug 2019) logs show Made Ground, Soft clay with organic matter between 150-250mm depth from existing ground level.

Regrade Levels have been taken as

300mm below finished levels in gardens and soft areas.
450mm below finished levels in shared access, drives and footways
700mm below finished levels in adoptable roads
800mm below house finished floor levels.

Models Used

Topographical Survey levels - existing topo (-200mm) August 2020.dgm

Regrade Levels - finished levels dropped various August 2020.dgm

NOTE
NO BULKING FACTORS HAVE BEEN APPLIED TO THE VOLUMETRIC CALCULATION

Rev.	Date	Amendment	Drawn	Chkd.	Appd.
A	14.08.2020	Updated to latest architects information.	MFP	SM	
P02	05.08.2020	Earthworks revised to latest Architects layout and drainage SuDS features added	GXA	SM	
P01	27.04.2020	Preliminary Issue.	GXA	SM	

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Client
BARRATT HOMES
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Project Title
DROVE LANE
YAPTON
WEST SUSSEX

Status
PRELIMINARY

Drawing Title
EARTHWORKS ASSESSMENT
AUGUST 2020

Drawn	Date	Checked	Date	Approved	Date
GXA	04.2020	SM	04.2020		

Scale	Orig Size	Dimensions
1:500	A0	m

Project No.: 133647
Drawing File: 03-03 Earthworks Assessment - April 2020.dwg
Drawing No.: PLN_1_4060
Rev.: A

Scale 1:500
0 5 10 15 20 25m

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