

STEP 1: STRIP EXISTING TOP SOIL

Existing site topsoil depth taken as 300mm average across the site

Existing topsoil depth	0.3 m	
Development area stripped	31,100 m ²	<i>assuming full development area is stripped</i>
Volume of topsoil stripped	9,330 m³	
Bulking factor	15%	<i>to be adjusted as needed</i>
Topsoil stockpile	10,730 m³	

STEP 2: CREATE DEVELOPMENT PLATEAU (CUT AND FILL TO PROPOSED FORMATION LEVELS)

Assumed formation depths in relation to finished levels:

Proposed buildings	0.45 m	<i>tbc</i>
Soft/landscaped areas	0.15 m	
Road	0.45 m	<i>tbc</i>
Drives/parking courts	0.45 m	
Footways/footpaths	0.2 m	

Outputs from site 3D - analysis from existing formation to proposed formation

Cut and Fill - full site

Cut	2,165 m ³	
Fill	7,934 m ³	
Balance	- 5,769 m ³	FILL

existing formation = formation following topsoil stripped

Subsoil balance	- 5,769 m ³	FILL
Bulking factor	0%	<i>no bulking factor on fill</i>
Subsoil stockpile	- 5,769 m ³	

STEP 3: ADDITIONAL ARISING

Foundation

Number of plot	89 plots
Allowance per plot	30 m ³
Arisings from foundations	2,670 m³

Round plot drainage

Number of plot	89 plots
Allowance per plot	20 m ³
Arisings from drainage	1,780 m³

Services

Number of plot	89 plots
Allowance per plot	15 m ³
Arisings from services	1,335 m³

Total additional arisings 5,785 m³

Subsoil balance	16 m³	CUT
Bulking factor	0%	<i>no bulking factor on fill</i>
Subsoil stockpile	16 m³	

STEP 4: TOPSOIL FOR BACKGARDEN/LANDSCAPE AREAS

Topsoil in backgarden/landscape areas

Depth of topsoil	0.15 m	
Backgarden/open space areas	10,885 m ²	<i>taken as 35% of total development area</i>
Topsoil reused on site	1,633 m³	

SUMMARY

Total subsoil balance	16 m³	CUT
Total topsoil balance	9,097 m³	<i>Total of steps 1 and 4</i>