

TOPSOIL - PHASES 4, 5, 6 & 7 ONLY, EXCLUDING PITCHES
Average topsoil depth taken from window samples = 0.30m
Topsoil to be stripped from site for screening = 251,204m² x 0.30m
= 75,361m³
Topsoil to be reused at 0.3m depth on gardens / landscaped areas = 45,216.6m² (60%)
Surplus topsoil post development = 30,144.4m³

FORMATION MODEL
The site survey model has been lowered by 300mm to account for the average topsoil strip for the entire site. The proposed formation model has been created using the following construction depths below designed levels -

Plot floor slabs - 450mm
detached garage slabs - 300mm
driveways/garages/PODS - 300mm
roads - 840mm (est. cbr 2-3%)
footways (inc services) - 300mm

CUT / FILL EXERCISE - PHASES 4, 5, 6 & 7, EXCLUDING PITCHES

Gross volume: Cut 23,827.09m³ Fill 69,441.93m³

Net volume: -45,614.84m³ (Required)

20% Bulking on Cut material = 6,785.42m³

Adjusted volume: -48,849.42m³ (Required)

ESTIMATED ARISINGS

Trad. foundation arisings (23m² pipex) = 606 x 23m³ = 13,938m³
+20% Bulking = 16,725.6m³

Retaining wall arisings (estimate) = 817.92m³
+20% Bulking = 981.50m³

Private drainage arisings (Trenches 0.6m x 0.3m x Avg length 10m = 5.4m³ per plot) = 696 x 5.4 = 3,772.4m³
+20% Bulking = 3,926.88m³

Plot service arisings (Trenches 0.6m x 0.3m x Avg length 5m = 2.7m³ per plot) = 696 x 2.7 = 1,879.2m³
+20% Bulking = 1,955.44m³

SPORTS PITCHES

Gross volume: Cut 9,313.1m³ Fill 3,820.89m³

Net volume: 5,492.21m³ (Surplus)

20% Bulking on Cut material = 1,862.89m³

Adjusted volume: 7,355.09m³ (Surplus)

Total arisings including pitches & bulk = 30,852.89m³

TOTAL = 9,896.92m³ (Requirement)

ADDITIONAL VOLUMES AND INFORMATION TO REVIEW

There are two mounds of unknown soils located on phase 8 edged in green. These volumes are excluded from the above exercise. The volumes are:

Mound 1: 3,949m³ CUT
Mound 2: 5,295m³ CUT
Total: 9,244m³ CUT

If this is a subsoil that can be used on phases 4-7, the fill requirement can be amended to 653.92m³.

The adoptable mains drainage arisings amount to the following = 6,340.98m³
+20% Bulking = 7,609.18m³

These values are already included within the initial cut volume of 24,000.45m³

Further Notes:

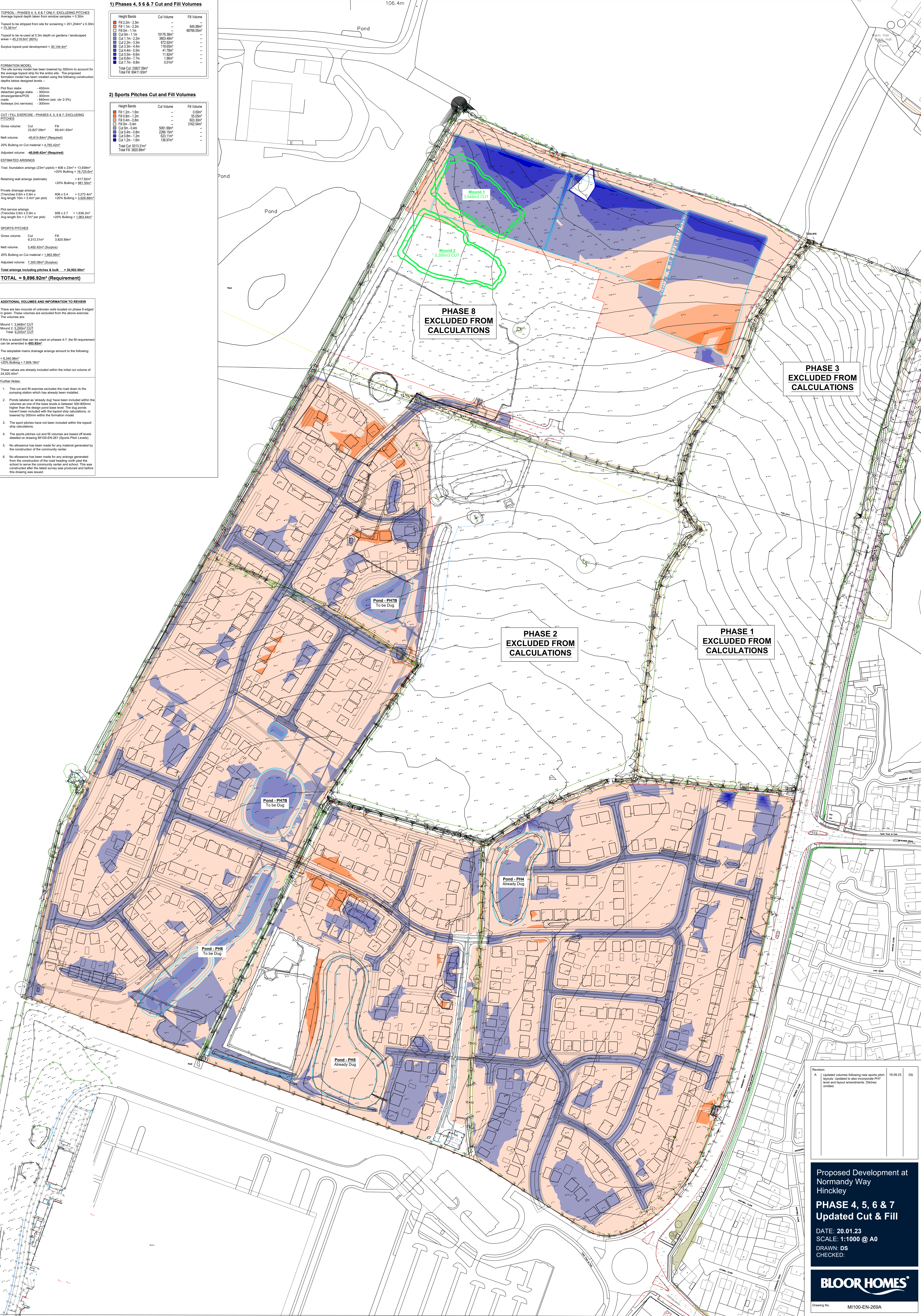
1. This cut and fill exercise excludes the road down to the pumping station which has already been installed.
2. Ponds labeled as 'already dug' have been included within the volumes as one of the base levels is between 100-800mm higher than the design pond base level. The dug ponds haven't been included with the topsoil strip calculations, or lowered by 300mm within the formation model.
3. The sport pitches have not been included within the topsoil strip calculations.
4. The sports pitches cut and fill volumes are based off levels detailed on drawing M100-EN-261 (Sports Pitch Levels).
5. No allowance has been made for any material generated by the construction of the community center.
6. No allowance has been made for any arisings generated from the construction of the road heading north past the school to serve the community center and school. This was constructed after the latest survey was produced and before this drawing was issued.

1) Phases 4, 5, 6 & 7 Cut and Fill Volumes

Height Bands	Cut Volume	Fill Volume
Fill 2.2m - 3.2m	--	645.88m ³
Fill 1.1m - 2.2m	--	88766.05m ³
Fill 0m - 1.1m	--	--
Cut 0m - 1.1m	19176.38m ³	--
Cut 1.1m - 2.2m	3603.49m ³	--
Cut 2.2m - 3.2m	872.50m ³	--
Cut 3.2m - 4.4m	118.85m ³	--
Cut 4.4m - 5.5m	41.39m ³	--
Cut 5.5m - 6.6m	11.92m ³	--
Cut 6.6m - 7.7m	1.96m ³	--
Cut 7.7m - 8.8m	0.01m ³	--
Total Cut 23827.09m ³		
Total Fill 69441.93m ³		

2) Sports Pitches Cut and Fill Volumes

Height Bands	Cut Volume	Fill Volume
Fill 1.2m - 1.6m	--	0.00m ³
Fill 0.8m - 1.2m	--	55.05m ³
Fill 0.4m - 0.8m	--	603.33m ³
Fill 0m - 0.4m	--	3162.54m ³
Cut 0m - 0.4m	5061.99m ³	--
Cut 0.4m - 0.8m	2286.15m ³	--
Cut 0.8m - 1.2m	623.11m ³	--
Cut 1.2m - 1.6m	136.97m ³	--
Total Cut 9313.1m ³		
Total Fill 3820.89m ³		



Revision	Updated volumes following new sports pitch layouts. Updated to also incorporate PH7 level and layout amendments. Details omitted.	18.09.23	DS
A			

Proposed Development at
Normandy Way
Hinckley
**PHASE 4, 5, 6 & 7
Updated Cut & Fill**

DATE: 20.01.23
SCALE: 1:1000 @ A0
DRAWN: DS
CHECKED:

BLOOR HOMES

Drawing No: M100-EN-269A