



Legend

GREY Existing typically shown in GREY. See notes.

BLACK Proposed typically shown in BLACK

Red line Indicative site boundary

Minimal earthworks to limit impacts upon existing trees. Regularising of surface only. INDICATIVE landform only.

As existing	
CUT Depth Bands	
Band 1	-0.00 - -0.10
Band 2	-0.10 - -0.20
Band 3	-0.20 - -0.30
Band 4	-0.30 - -0.40
Band 5	-0.40 - -0.50
Band 6	-0.50 - -0.60
Band 7	-0.60 - -0.70
Band 8	-0.70 - -0.80
Band 9	-0.80 - -0.90
Band 10	-0.90 -
FILL Depth Bands	
Band 1	0.00 - 0.05
Band 2	0.05 - 0.10
Band 3	0.10 - 0.15
Band 4	0.15 - 0.20
Band 5	0.20 - 0.25
Band 6	0.25 - 0.30
Band 7	0.30 - 0.35
Band 8	0.35 - 0.40
Band 9	0.40 - 0.45
Band 10	0.45 -

Prismoidal Volume Calculations			
Summary of Total Volumes of Cut/Fill:			
PCM1 (Existing) model: EXISTING-3793B WITH XTRA.DGM			
PCM2 (Proposed) model: KPH OUTLINE R15.DGM			
		PCM2 surface relative to	
		PCM1 surface	
Total	Gross:	Cut	Fill
	Nett:	2909.5	15.9
		2893.6	

- General Notes**
- The purpose of this drawing is to illustrate a notional landform strategy. It has been produced in advance of any detailed proposals and is provided for appraisal of feasibility.
 - This drawing is not provided as a design for construction nor is it to be used for setting out purposes. **Adjustments will be required to optimise path gradients, underbuild, raised DPC/lanking requirements and the like during detailed design.** However, it is not expected that such adjustments will vary the philosophy shown.
 - Do not scale. All dimensions shown are in metres unless noted otherwise.
 - Existing information has been reproduced from topographic survey undertaken in 2020 (file reference 793B_REV1.DWG).
 - Proposed information is reproduced from Frank Shaw Associates site plan (file reference 20017-FSA-XX-XX-DR-A-1100_Site Plan and Layout_P16.dwg).
 - This drawing is to be read in conjunction with Architects, Engineers & Specialist Contractors Details. Should there be any discrepancy between details indicated on this drawing and those indicated on other drawings the Engineer should be informed PRIOR to construction on site.
 - The information shown and which originates from others may have been simplified for clarity. Refer to the originators details for additional information.
 - Where encountered, redundant pipework, ducts, cables and the like are to be excavated, removed and resultant trenches backfilled to an appropriate standard relative to the proposed end use. It is assumed that all existing services which are made redundant by the proposals are to be stopped up/capped off at the site boundary.
 - Cut & Fill volumes shown assume earthworks are undertaken in reasonable conditions. Should a period of inclement weather or excessively dry or wet material be experienced, HSP to be informed PRIOR to recommencing the earthworks to evaluate the suitability of the material and advise on any remediation works that may be required.
 - All earthworks including site stripping of topsoil and stockpiling are to be protected on a daily basis to ensure minimal water ingress and limit deterioration of the below ground.
 - Stock piling of material should be avoided where possible.
 - Should ground conditions contradict the Ground Investigation or the assumption set out on this drawing, HSP Consulting Engineers Ltd are to be informed immediately on discovery of adverse ground conditions.
 - Should the earthworks not be carried out in accordance with the assumptions set out on this drawing, material estimates/calculations may be invalid. Calculations are provided for guidance only. HSP Consulting Engineers Ltd do not accept any liability for costs of airings, disposal, materials movement or materials management.

- Cut & Fill Notes**
- There is a paucity of information in respect of the existing floor construction, foundations, pavement construction and the like. This precludes accurate estimates.
 - Notional cut and fill calculations have been undertaken for the purpose of 'banking' alternatives.
 - For ease of comparison gross earthworks quantities are shown; these are 'existing' vs 'proposed finished levels' i.e. it is assumed that arisings from demolition will be comparable regardless of finished landform.
 - Calculations are approximate only and do not purport to be a detailed 'take off' or appraisal of materials management.
 - It is assumed that site derived material can be reused (if required).

- Notes**
- Due to the time of year and the underlying clayey sub-soils, there is a risk that the surface ground conditions could become excessively wet and unworkable. Therefore, the appointed ground worker should be aware of this risk and keep the site capped at all times and not stripped and left exposed to inclement weather conditions.
 - Should sulphates occur in the underlying ground, lime stabilisation, or similar modification, may not be appropriate for dealing with materials wet of optimum moisture content.
 - Well point dewatering may be required prior to the commencement of any earthworks.
 - No allowance for bulking has been made in the cut and fill analysis. It should be noted that if bulking of cut material occurs this may increase the surplus and result in the requirement to remove material from the site.

P04	PD	08.07.21	Wholesale changes based upon revised layout. 20017-HSP-XX-XX-DR-C-2000 P06	SA
P03	PD	06.05.21	Wholesale changes based upon revised layout. Isopachyte updated to suit latest cut and fill model	MB
P02	JM	08.01.21	Isopachyte updated to suit latest cut and fill model	PRD
P01	JM	22.11.20	Base drawing	PRD
REV	BY	DATE	DETAILS	CKD

STATUS	S3 - REVIEW/COMMENT
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CLIENT

Frank Shaw Associates

PROJECT

Kirklees Care Homes
Knowl Park House

TITLE

Isopachyte Analysis

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consulting

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SCALE	PROJECT NO.	SHEET
1:200	C3257	SIZE A1
DATE	DRAWN	CHECKED
22.11.20	JM	PRD
DRAWING NO.	REV	
20017-HSP-XX-XX-DR-C-2020	P04	