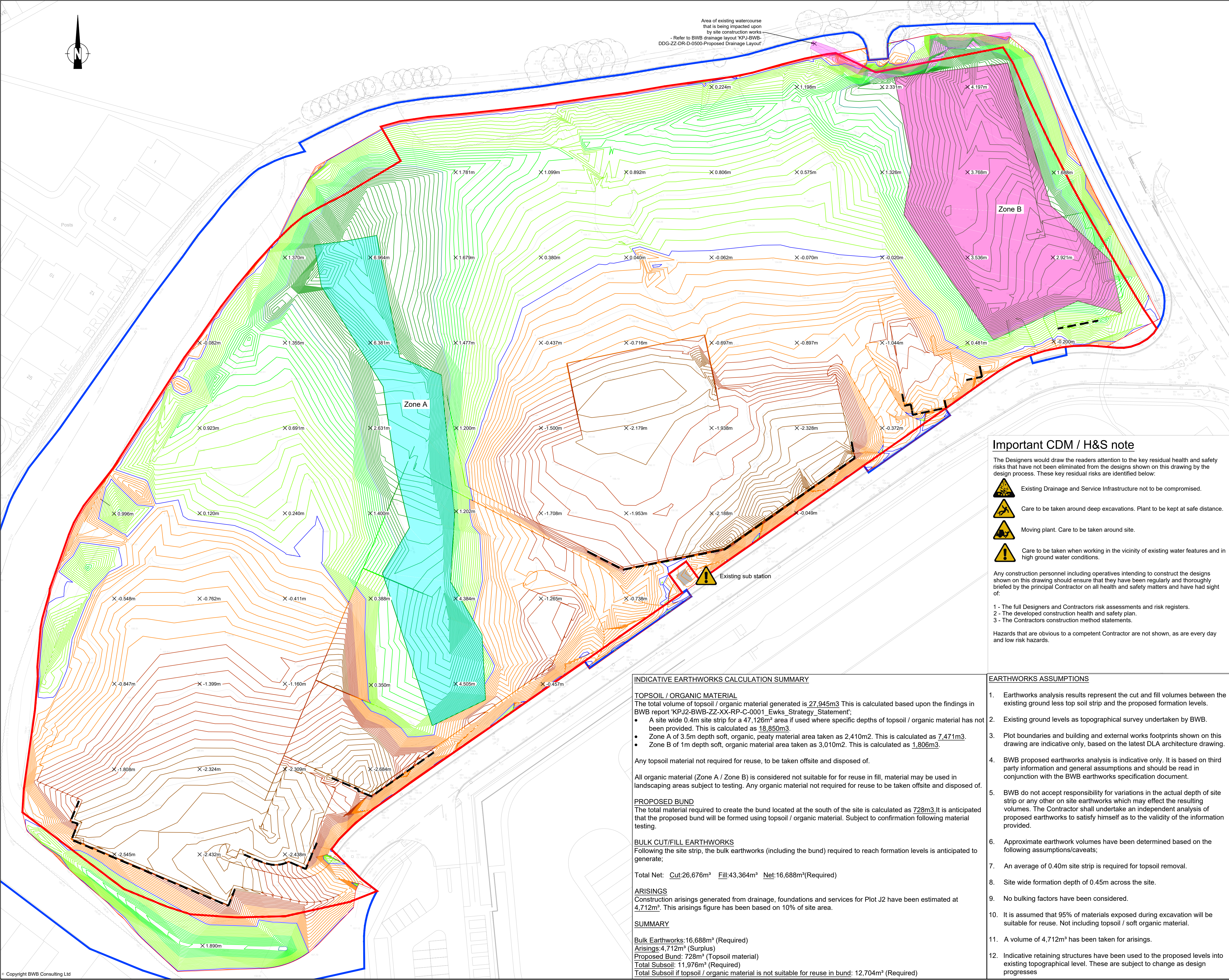




- Notes**
1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
 2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
 3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
 4. Any discrepancies noted on site are to be reported to the engineer immediately.
 5. For site plan refer to DLA Architecture drawing "2022-052_KPJ-DLA-JS-XX- DR-A-90076_RevP01_SITE PLAN" dated 09/11/22.
 6. For topographical survey refer to BWB drawings "KBP-BWB-00-ZZ-M3-G-001-Existing_Site_3D_Model" & dated 07/06/22.

Key Plan

- Proposed Retaining Structure
- Site Boundary
- Application Boundary
- Earthworks Fill
- Neutral Earthworks
- Earthworks Cut

PROPOSALS ARE SUBJECT TO APPROVAL

PROPOSALS ARE SUBJECT TO CHANGE DURING DETAILED DESIGN AND PROJECT TEAM REVIEW

SITE LEVELS SHOWN INDICATIVELY - SUBJECT TO CONTRACTORS METHOD OF WORKS. COULD BE RAISED OR LOWERED BY +/- 0.5m

EARTHWORKS ARE INDICATIVE AND SUBJECT TO ONGOING GROUND INVESTIGATION FINDINGS

Important CDM / H&S note

The Designers would draw the readers attention to the key residual health and safety risks that have not been eliminated from the designs shown on this drawing by the design process. These key residual risks are identified below:

- Existing Drainage and Service Infrastructure not to be compromised.
- Care to be taken around deep excavations. Plant to be kept at safe distance.
- Moving plant. Care to be taken around site.
- Care to be taken when working in the vicinity of existing water features and in high ground water conditions.

Any construction personnel including operatives intending to construct the designs shown on this drawing should ensure that they have been regularly and thoroughly briefed by the principal Contractor on all health and safety matters and have had sight of:

- 1 - The full Designers and Contractors risk assessments and risk registers.
- 2 - The developed construction health and safety plan.
- 3 - The Contractors construction method statements.

Hazards that are obvious to a competent Contractor are not shown, as are every day and low risk hazards.

P05	06.12.22	Planning Issue	MM	JR
P04	01.12.22	Planning	MM	JR
T02	01.12.22	Amended to reflect latest levels drawing	MM	JR
T01	19.11.22	Tender Issue	MM	JR
P03	19.07.22	Updated to suit latest levels	JT	JR
P02	15.07.22	For Planning	JT	JR
P01	14.07.22	For Information	JT	JR
Rev	Date	Details of issue / revision	Drw	Rev

Issues & Revisions

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Client
Wilson Bowden

Project Title
Plot J2 Kingsway Business Park

Drawing Title
Proposed Isopachytes

Drawn:	J Taylor	Reviewed:	J Roberts
BWB Ref:	LDA2943	Date:	July 22
Scale@A1:		1:500	

Drawing Status
Planning

Project - Originator - Zone - Level - Type - Role - Number	Status	Rev
KPJ-BWB-DGT-XX-DR-D-0630	S2	P05

INDICATIVE EARTHWORKS CALCULATION SUMMARY

TOPSOIL / ORGANIC MATERIAL
The total volume of topsoil / organic material generated is 27,945m³ This is calculated based upon the findings in BWB report 'KPJ2-BWB-ZZ-XX-RP-C-0001_Ewks_Strategy_Statement';

- A site wide 0.4m site strip for a 47,126m² area if used where specific depths of topsoil / organic material has not been provided. This is calculated as 18,850m³.
- Zone A of 3.5m depth soft, organic, peaty material area taken as 2,410m². This is calculated as 7,471m³.
- Zone B of 1m depth soft, organic material area taken as 3,010m². This is calculated as 1,806m³.

Any topsoil material not required for reuse, to be taken offsite and disposed of.

All organic material (Zone A / Zone B) is considered not suitable for reuse in fill, material may be used in landscaping areas subject to testing. Any organic material not required for reuse to be taken offsite and disposed of.

PROPOSED BUND
The total material required to create the bund located at the south of the site is calculated as 728m³.It is anticipated that the proposed bund will be formed using topsoil / organic material. Subject to confirmation following material testing.

BULK CUT/FILL EARTHWORKS
Following the site strip, the bulk earthworks (including the bund) required to reach formation levels is anticipated to generate;

Total Net: Cut:26,676m³ Fill:43,364m³ Net:16,688m³(Required)

ARISINGS
Construction arisings generated from drainage, foundations and services for Plot J2 have been estimated at 4,712m³. This arisings figure has been based on 10% of site area.

SUMMARY
Bulk Earthworks:16,688m³ (Required)
Arisings:4,712m³ (Surplus)
Proposed Bund: 728m³ (Topsoil material)
Total Subsoil: 11,976m³ (Required)
Total Subsoil if topsoil / organic material is not suitable for reuse in bund: 12,704m³ (Required)

EARTHWORKS ASSUMPTIONS

1. Earthworks analysis results represent the cut and fill volumes between the existing ground less top soil strip and the proposed formation levels.
2. Existing ground levels as topographical survey undertaken by BWB.
3. Plot boundaries and building and external works footprints shown on this drawing are indicative only, based on the latest DLA architecture drawing.
4. BWB proposed earthworks analysis is indicative only. It is based on third party information and general assumptions and should be read in conjunction with the BWB earthworks specification document.
5. BWB do not accept responsibility for variations in the actual depth of site strip or any other on site earthworks which may effect the resulting volumes. The Contractor shall undertake an independent analysis of proposed earthworks to satisfy himself as to the validity of the information provided.
6. Approximate earthwork volumes have been determined based on the following assumptions/caveats;
7. An average of 0.40m site strip is required for topsoil removal.
8. Site wide formation depth of 0.45m across the site.
9. No bulking factors have been considered.
10. It is assumed that 95% of materials exposed during excavation will be suitable for reuse. Not including topsoil / soft organic material.
11. A volume of 4,712m³ has been taken for arisings.
12. Indicative retaining structures have been used to the proposed levels into existing topographical level. These are subject to change as design progresses