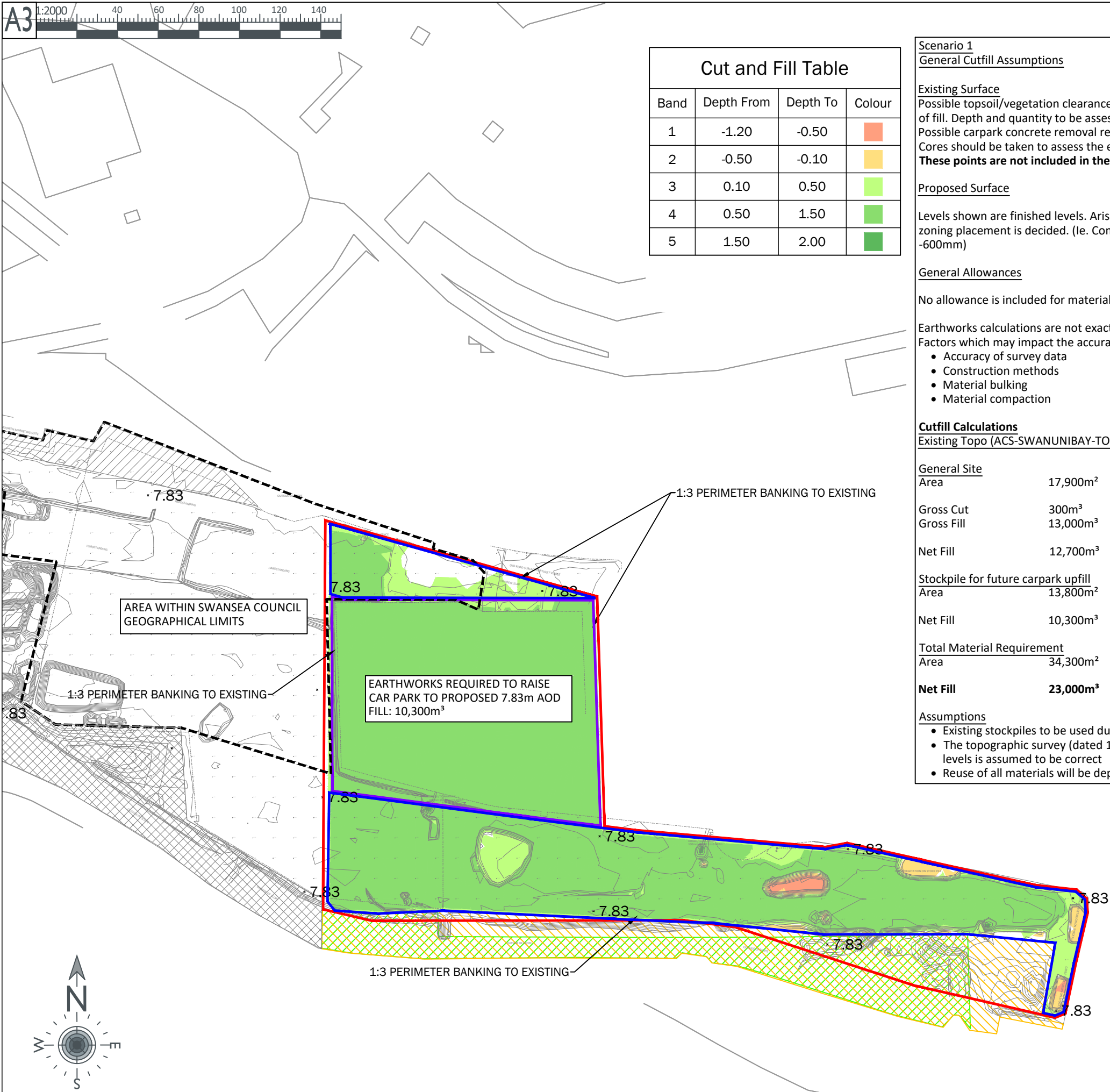
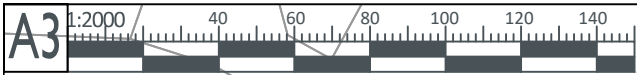




Cut and Fill Table			
Band	Depth From	Depth To	Colour
1	-1.20	-0.50	
2	-0.50	-0.10	
3	0.10	0.50	
4	0.50	1.50	
5	1.50	2.00	

Scenario 1
General Cutfill Assumptions

Existing Surface
Possible topsoil/vegetation clearance may be required for below the area of fill. Depth and quantity to be assessed on site.
Possible carpark concrete removal required, depth of concrete is unknown. Cores should be taken to assess the extent of the concrete to be removed.
These points are not included in the calculations

Proposed Surface
Levels shown are finished levels. Arisings need to be accounted for once zoning placement is decided. (I.e. Commercial -300mm, Residential -600mm)

General Allowances

No allowance is included for material bulking, or compaction.

Earthworks calculations are not exact and should be used as guidance only. Factors which may impact the accuracy of the cut/fill volume calculations -

- Accuracy of survey data
- Construction methods
- Material bulking
- Material compaction

Cutfill Calculations
Existing Topo (ACS-SWANUNIBAY-TOPO-01) vs Proposed 7.83m AOD

<u>General Site Area</u>	17,900m ²
Gross Cut	300m ³
Gross Fill	13,000m ³

Net Fill 12,700m³

<u>Stockpile for future carpark upfill Area</u>	13,800m ²
Net Fill	10,300m ³

<u>Total Material Requirement Area</u>	34,300m ²
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Net Fill 23,000m³

Assumptions

- Existing stockpiles to be used during earthworks movements
- The topographic survey (dated 19.09.21) used to represent existing levels is assumed to be correct
- Reuse of all materials will be dependant on testing and validation.

NOTES
These drawings have been produced with reference to the CDM Regulations 2015. Please note that these are pre-construction phase drawings and should be subject to further design risk management as required in accordance with Regulation 9

- GENERAL NOTES:**
1. This drawing is to be read in conjunction with all other relevant Engineering and Architect's details.
 2. The design details presented must be reviewed in conjunction with the wider site information and site constraints which may not be evident on drawing and must be requested if not already provided. This includes, but not limited to, ground conditions (geotechnical and geo-environmental), groundwater levels, buried services, remnant obstructions, ecology, tree protection and topography.
 3. The Engineer shall be notified immediately, in writing, should any errors or discrepancies be found prior to the commencement or continuation of any works.
 4. All work is to be carried out in accordance with current British Standards, Building Regulations and NHBC Standards.
 5. It is the responsibility of the Contractor to execute the works at all times in strict accordance with the requirements of the Health and Safety at Work Act 1974, and the C.D.M. Regulations 2015. The Contractor will be deemed to have allowed for full compliance, including full liaison with the CDM Co-ordinator, within his rates.
 6. Any existing details which are shown on this drawing are for guidance only and are to be checked on site by the contractor. Any variations are to be recorded and reported to the engineer immediately.

KEY	
East Site Boundary 31,700m ²	
General Site 17,900m ²	
Car Park 13,800m ²	
Potential Ground Nesting	
Sand Dune Vegetation	
Reptile Habitat	

DRAFT
FOR DISCUSSION ONLY

REV	DATE	REVISION NOTE	BY
P3	19.04.22	Cut/Fill volumes adjusted to suit updated boundary	MS
P2	13.04.22	Update Cut/Fill boundary	BI
P1	31.03.22	General Update	JP

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CLIENT
St Modwen Developments

PROJECT
**Swansea University
Material Import
Levels**

DRAWING TITLE
**Swansea Bay East
Site Proposed levels**

DRAWING ISSUE STATUS		
PJA JOB No.	SUB-CODE	REVISION
5746	- SK -	9004 - P3
Revision Letter : P - Prelim / A - Approval / T - Tender / C - Construction		
BIM DRAWING REFERENCE		

SCALE	DRAWN	REVIEWED	DATE
A3@DNS	JP	BI	28.03.22