A2

IAGO Cymru Ltd
Sustainable Solutions
Cynllunio Cynaliadwy.

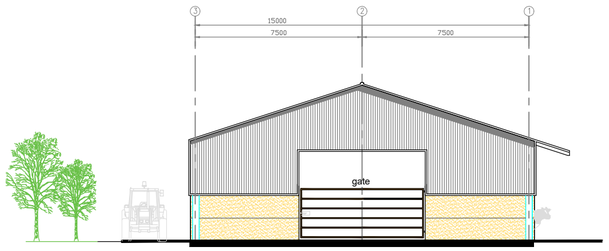
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RICS iago cymru ltd welsh national regeneration award winners 2010

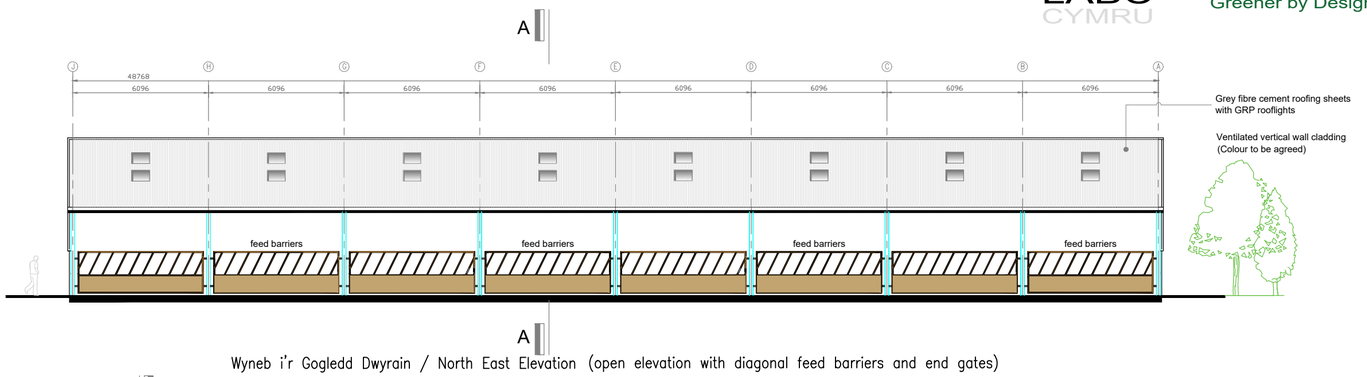
Planning Drawing Issue No 1
Submission Date: 13.06.2025

partner LABC CYMRU

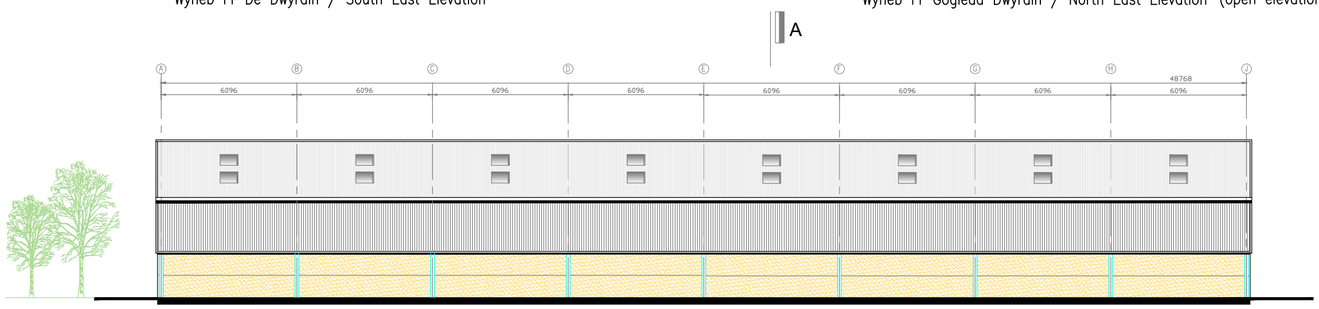
KeBeK Greener by Design



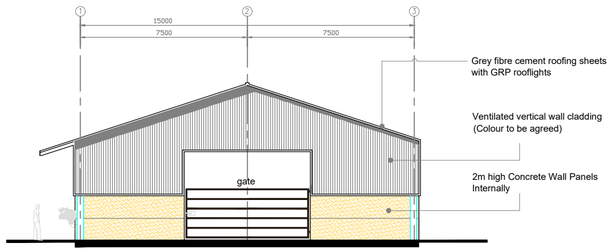
Wyneb i'r De Dwyrain / South East Elevation



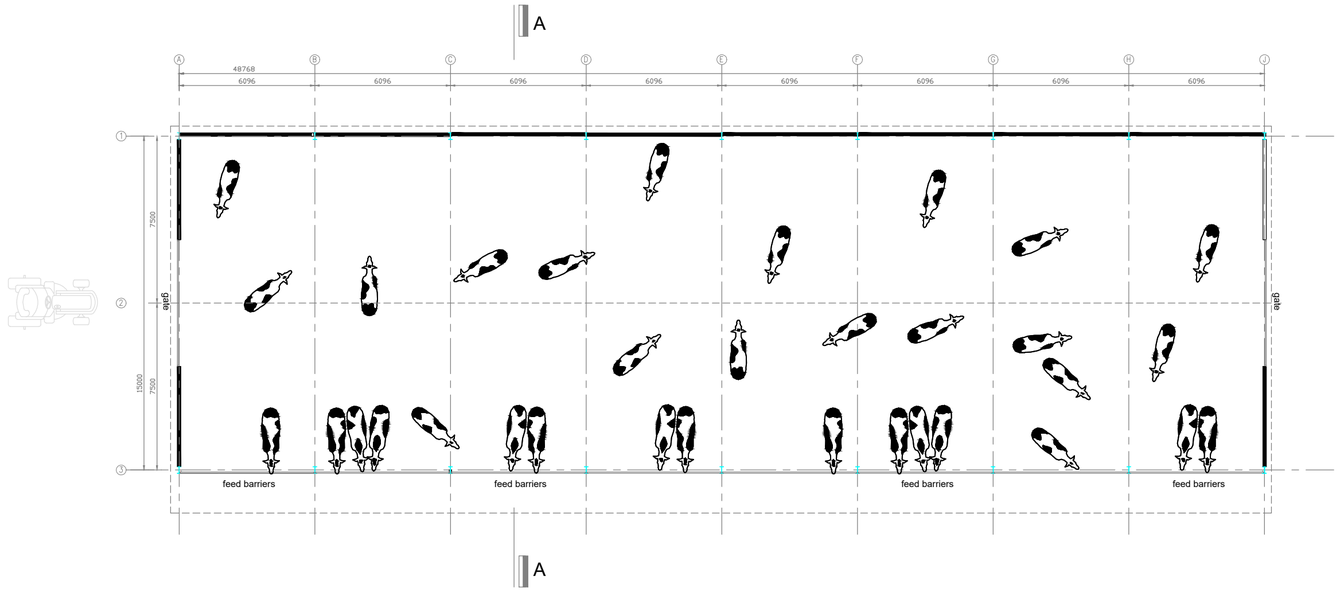
Wyneb i'r Gogledd Dwyrain / North East Elevation (open elevation with diagonal feed barriers and end gates)



Wyneb i'r De Gorllewin / South West Elevation

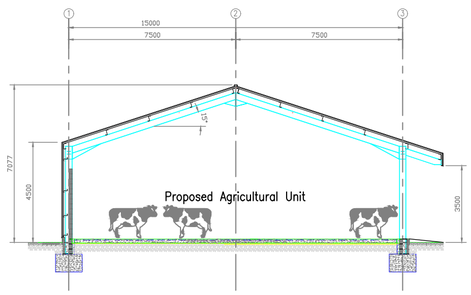


Wyneb i'r Gogledd Gorllewin / North West Elevation



PLAN OF AGRICULTURAL OUTBUILDING (48.7M x 15M = 730.5 Sq m)
(this drawing to be read in conjunction with drawing PA/03)

0 1 2 3 4 5 10
raddfa mewn metrau / scale in meters



Trawsdoriad / Section A : A

All Steelwork Shot Blasted Prior to Base Coat of
High Build Zinc Phosphate Primer and Finishing Coat
of Grey Alkyd Based Paint
Full Specification for Internal Steel Supporting Structure
(Including Posts, Trusses etc). and Foundations to be based
on Manufacturer's Specifications and Engineers Design Calculations.
All Steelwork to be in Compliance with BS 5502–Part 22:2003 As Amended

NODIADAU/NOTES

MAE'R LLUNIAD HWN WEDI EI WNEUD AR GYFRIFIADUR, NI DDYLID GYWIRIO GYDA LLAW. (AutoCAD LT / Revit 2021).

THIS IS A CAD PRODUCED DRAWING, AND SHOULD NOT BE AMENDED BY HAND. (AutoCAD LT / Revit 2021).
During reproduction Drawing may Shrink or Expand

SILAGE AND SLURRY STORAGE REQUIREMENTS

The Water Resources (Control of Pollution) Silage, Slurry and Agricultural Fuel Oil (Wales) Regulations 2010 (SSAFO)

These above regulations set out the requirements for the design (capacity) construction and maintenance of storage facilities for silage, and slurry.

They apply to all installations completed since September 1991.

They require you to nofity NRW, in writing at least 14 days before using a system that is new, substantially enlarged or substantially re-constructed. NRW have forms available to enable you to provide the necessary information.

EARTH BANK SLURRY STORES AND TANKS

Any alteration works to an existing earth bank slurry store, or a replacement earth bank slurry store will be expected to meet the requirements of The Water Resources (Control of Pollution) (Silage, Slurry and Agricultural Fuel Oil) (England) Regulations 2010 (as amended 2013). Commonly referred to as SSAFO and apply in England

The works contractor must be fully conversant with the regulations, and will provide written confirmation that the design, construction, and installation, will meet the legal requirements.

Any works within a Nitrate Vulnerable Zone (NVZ) then there are rules to follow concerning slurry storage capacity. See Defra guidance.

Ground Water Protection - no system to be located within a groundwater Source Protection Zone 1 or within 50 meters of a borehole, well, or spring used to supply drinking water.

SUITABILITY OF EARTH BANK STORES

Soils- where the soils are suitable (impermeable and stable), they are appropriate for storing slurry or semi-solid manure, or as a series of tanks or lagoons to settle and store dirty water.

To be suitable they must have a permeability of 0.000001 mm per second or less, following compaction if necessary. Impermeable soil must be present to a depth of at least one meter below the bottom of the store.

Soils with a clay content of between 20 - 30 per cent are generally ideal and produce stable embankments. Lower clay content may not meet the required permeability, whilst a higher one should be suitable for the base, but may be difficult to form into a stable embankment and could tend to shrink and crack on drying. The suitability of the material should be confirmed by analysis in a soil laboratory, and preferably verified by a civil engineer. Materials that is intended for use in-situ without any re-compaction need only be tested for permeability and depth.

SOIL TESTING

Initial soil tests to be taken from at least 5 locations to identify any variability in clay content and depth of impermeable soil. Where there is little variability in clay content, soils from only one sample location needs to be sent for detailed testing, otherwise send a range of samples. They need to be tested in an approved soils' laboratory to show whether the required level of impermeability can be achieved. This involves the direct measurement of soil permeability as well as other soil characteristics. Testing should meet BS 1377 (methods of tests for soils for civil engineering purposes)

Where the in-situ soils are not fully suitable, then import appropriate material, or use an impermeable synthetic liner.

SITE SELECTION

Sites in a flood plain or with a high water table to be avoided, including ground that has been previously made up or disturbed.

- Trees, scrub, roots, etc need to be removed
- Relocate any land drains at least 10 meters away from the outside of the embankment, and carefully back-fill the trench with impermeable material.

Chartered Institute of Architectural Technologists

Cwsmer/Client: DW & CE Jones Livestock Ltd		Rhif/Job No: 0525/14	Lluniad/Drawing Title: SKETCH DESIGN DRAWING OF PROPOSED AGRICULTURAL UNIT		Graddfa/Scale: 1 : 200
Prosiect/Project: Planning Application - Wiltor Lodge, Church Farm, Wilcrick, Newport NP26 3DA		Rhif Feil/File Name: iago: 0525/14	Lluniad/Drawing No: PA/05	Cywyriad/Rev:	Dyddiad/Date: 09.05.2025
					Lluniwr/Drawn: G IAGO
Cyw/Rev:					Dyddiad/Date:

IAGO Cymru (Cyf).
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