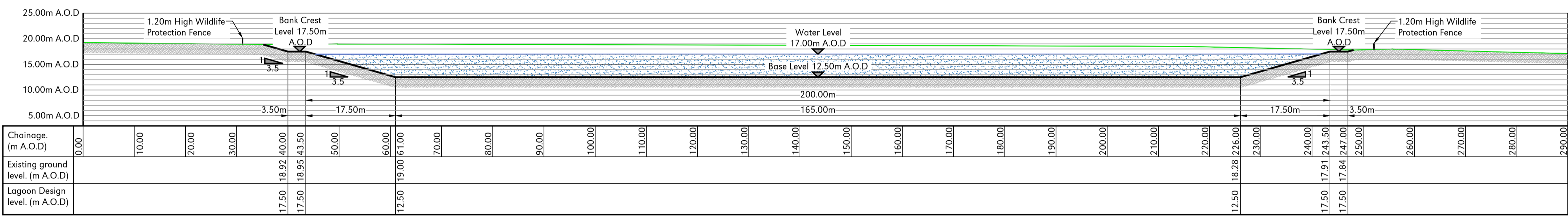
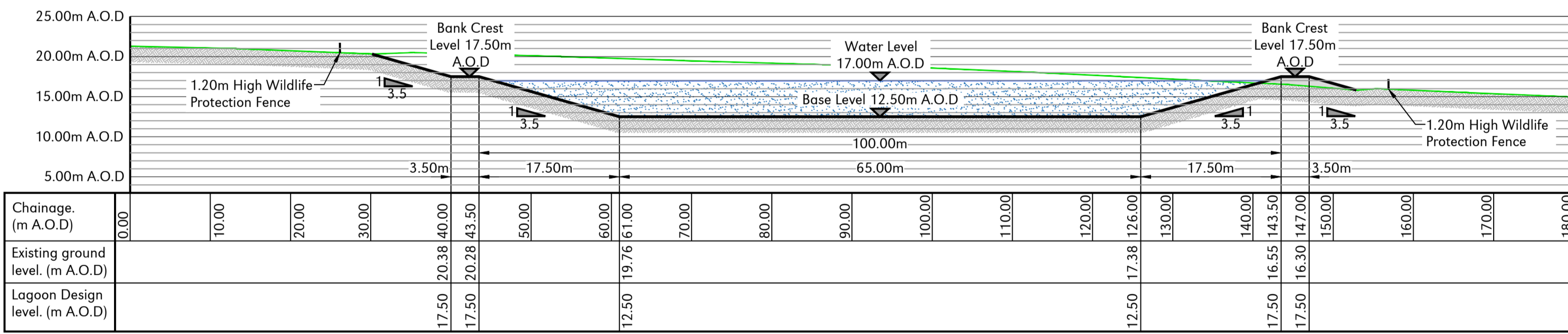


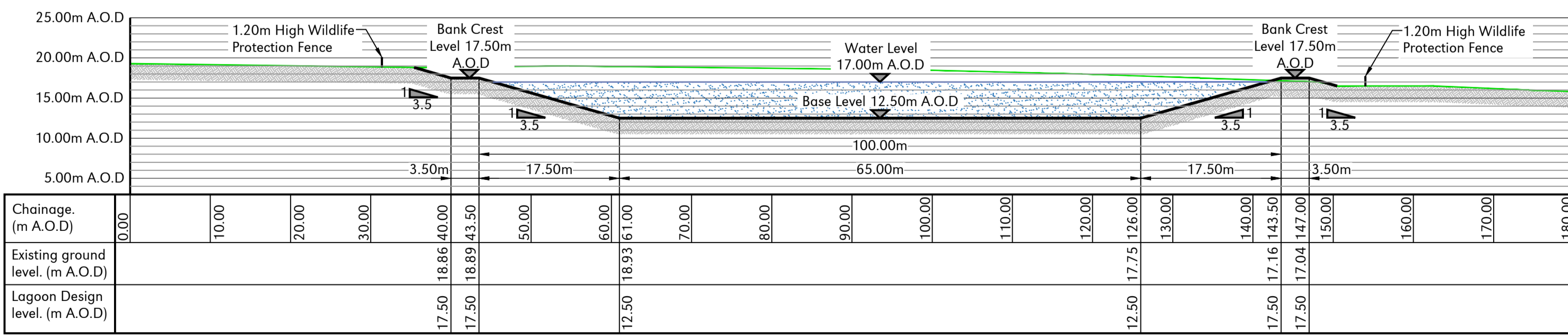
Proposed Surface Water Reservoir General Arrangement Plan
Scale 1:500



Section A-A
Scale 1:500 Horizontal, 1:500 Vertical



Section B-B
Scale 1:500 Horizontal, 1:500 Vertical



Section C-C
Scale 1:500 Horizontal, 1:500 Vertical

General Arrangement Legend	
	Existing Public Footpath Indicative Route
	Proposed Fence
	Proposed Site Boundary (30,927m²/3,0927ha)
	Proposed Hardcore Surfacing

Section Legend	
	Original Ground Level (Section)
	Lagoon Water Level (Section)

- General Notes:**
- All dimensions noted are in metres unless stated otherwise.
 - All levels to be above Ordnance Survey Datum defined levels (A.O.D.m) unless noted otherwise.
 - Do not scale from this drawing. If dimensions are not clear ask the client for clarification.
 - This document has been created in accordance with Plandescil Ltd. Terms & Conditions along with the scope of works provided by the client to Plandescil Ltd. Any use of this document other than for its original purpose is prohibited. Plandescil Ltd. accept no liability for any third party uses of this document.
 - Plandescil Ltd. to be immediately notified of any suspected omissions or discrepancies.
 - This drawing is to be read in conjunction with all other relevant documents relating to the project.
- Design Calculations:**
- Reservoir footprint area (outer bank inc.) = 25,338m².
 - If applicable, reservoir area to be lined, should this be required (inc. internal slopes) = 20,377m².
 - Reservoir volume excluding freeboard = 66,052m³.
 - Reservoir volume including freeboard = 75,792m³.
 - Bank Slopes: 1:3.5 Internal and 1:3.5 External.
 - Cut/Fill:
 - 100% compaction assumed placing cut material.
 - Cut/Fill designed at 1:1 bulking/compaction factors.
 - Total cut excavation volume (exc. topsoil) = 93,560m³.
 - Total fill excavation volume (exc. topsoil) = 1,825m³.
 - Net cut (exc. topsoil) = 92,135m³.
 - Storage capacity of reservoir designed to allow a nominal 500mm vertical freeboard.
 - Placement of topsoil over the formed banks to be at a minimum of 300mm, residual volume to be lost in adjacent field.
 - Estimated 300mm topsoil strip volume = 7,600m³.
 - Internal bank slopes clay lining design specification TBC.

ISSUED FOR CLIENT REVIEW				
0	12-06-23	AF	First Issue	
Rev	Date	Rev By	Chkd	Description

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civil / structural / environmental / surveying

Client
A R Freeland Farms

Project
Proposed Lagoon, Land North of Beccles Road, Toft Monks

Proposed Surface Water Reservoir GA & Sections			
Scale	U.N.O.	Date	Drawn By
1:500 (A0)		June 2023	EH
Drawing No.	29001/500	Rev	0

