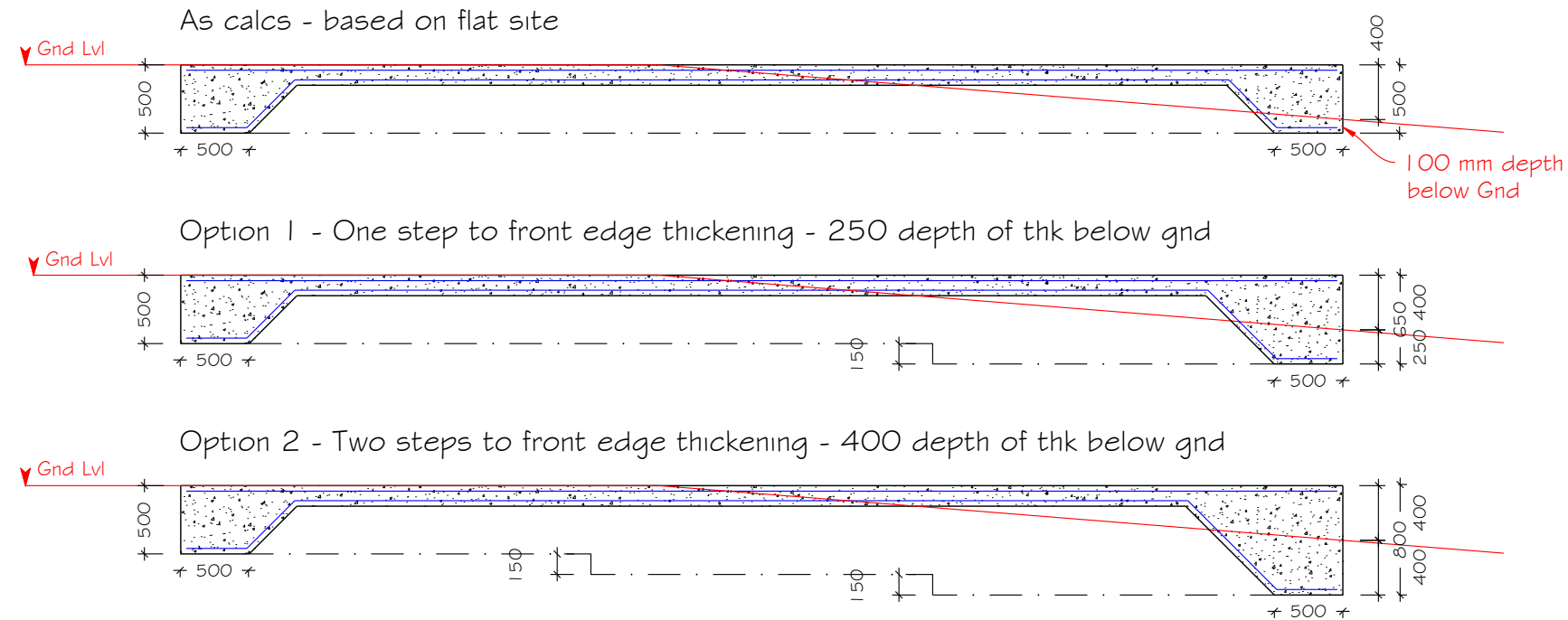
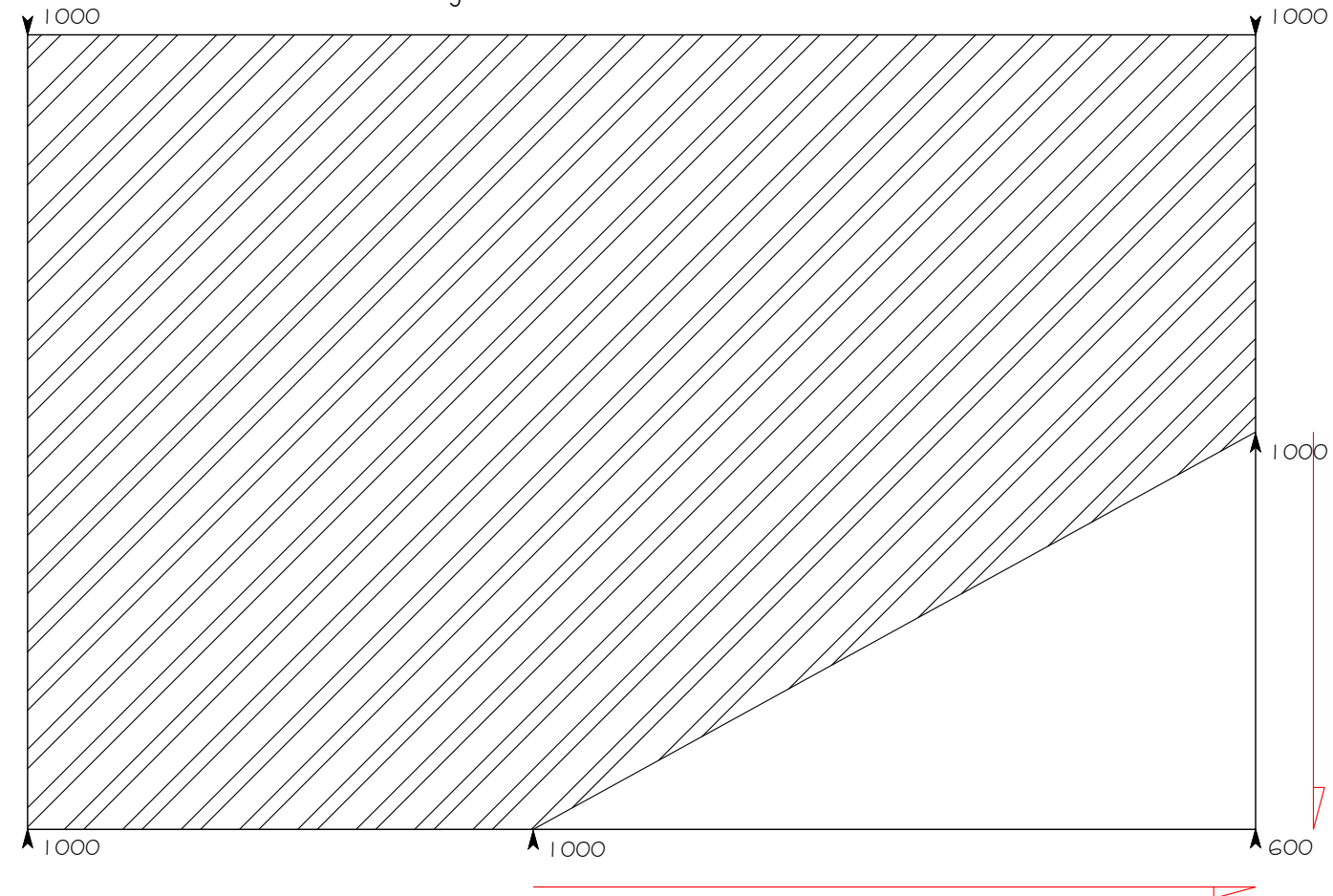




Ground Profile beneath existing slab



Fall in ground level 400 mm appx

Fall in ground level 400 mm appx



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Project Swn Y Nant Barn Replacement
Site Address Cilybebyll, Pontardawe, Port Talbot, SA8 3JH
Client Dale Maintenance
Purpose / Stage Concept

Site Levels for Raft Design

Scale 1:20

Drawing No.

2244-T-15

Revision.

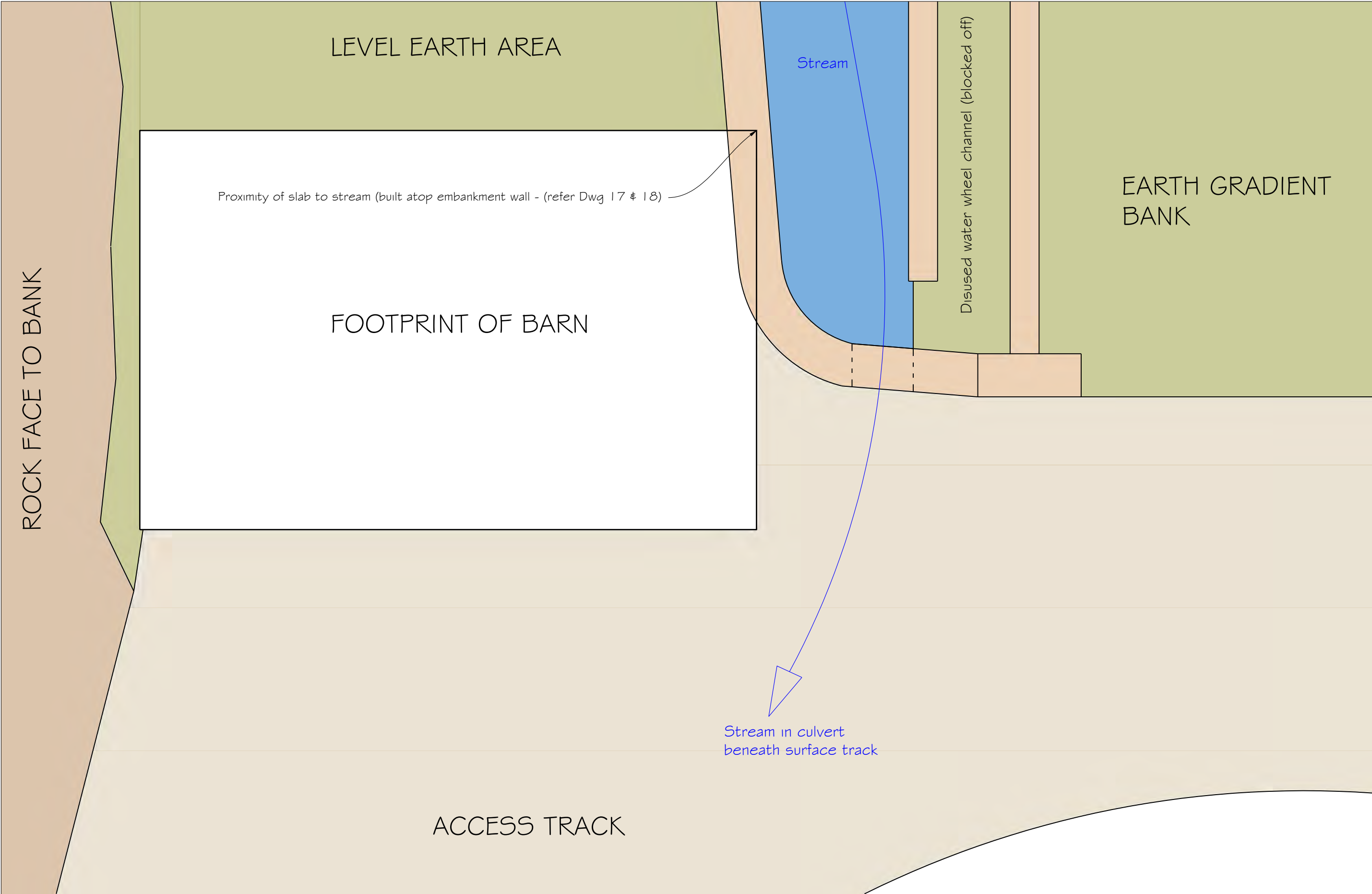
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Project

Swn Y Nant Barn Replacement

Site Address

Cilybebyll, Pontardawe, Port Talbot, SA8 3JH

Client

Dale Maintenance

Purpose / Stage

Concept

Schematic Site Plan

Scale APPX 1:50 - TAKE AS NTS

Drawing No.

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A3



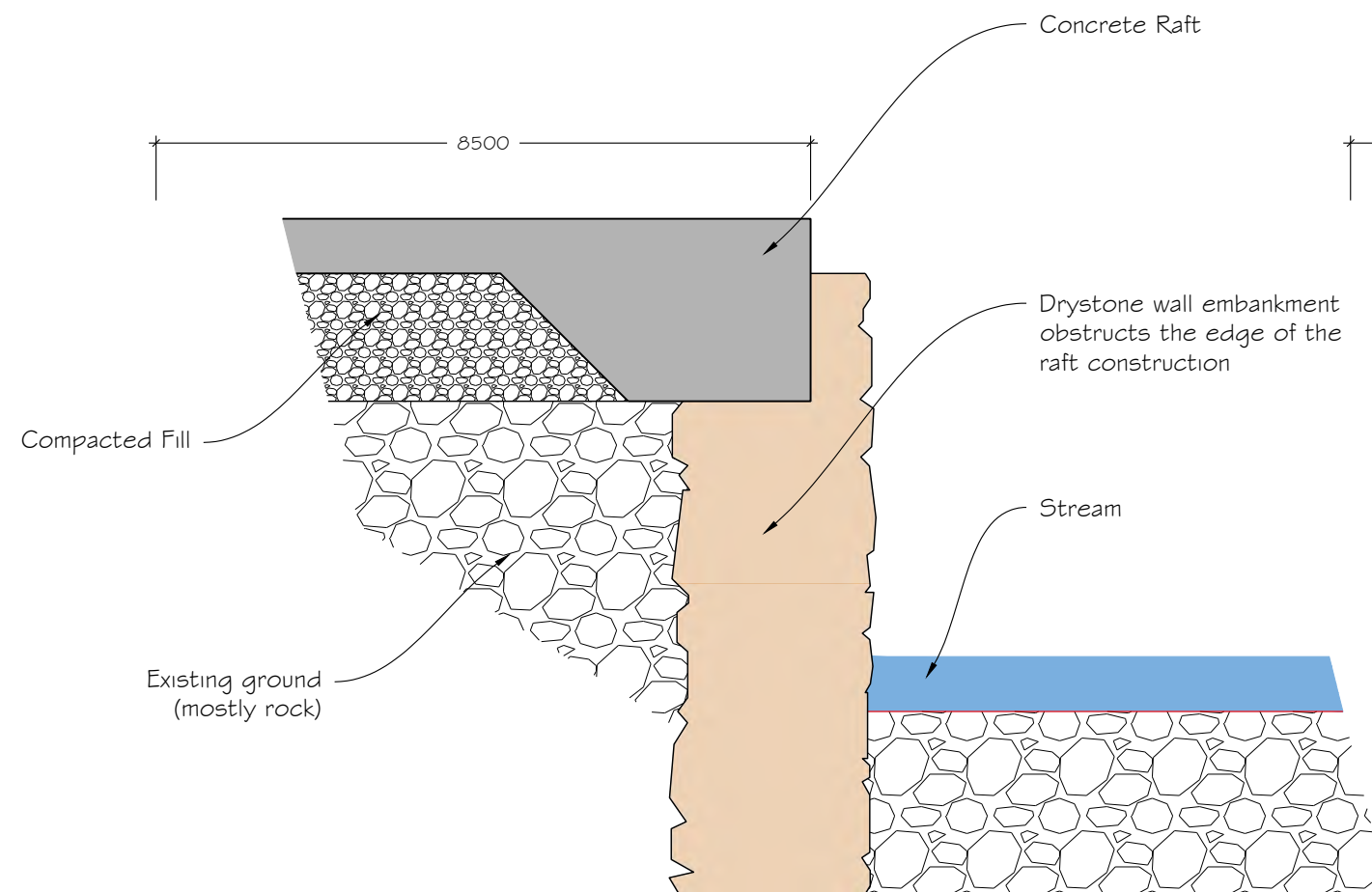
Pic.18 View of stream adjacent to edge of barn slab.
Note close proximity of the slab to the stream - this was intentional at the time of original building - as there is a wash out channel from the barn (milking shed) to directly into the stream - for the disposal of cattle waste.
The dry stone walls that form the side of the stream bank and the above ground section preventing fall into the stream are in poor condition and will likely need taking down and rebuilding due both due to the likelihood of disturbance during the works and the obstruction of some elements.



Pic.19 At its closest point to the vertical wall of the stream embankment the existing slab sits atop the embankment wall - with only 150mm or so of edge projection before the vertical face of the wall drops to the stream bed - a height of appx 1200 mm.

The wall would need to be reduced in height to accommodate the depth of the concrete raft edge and associated formwork.

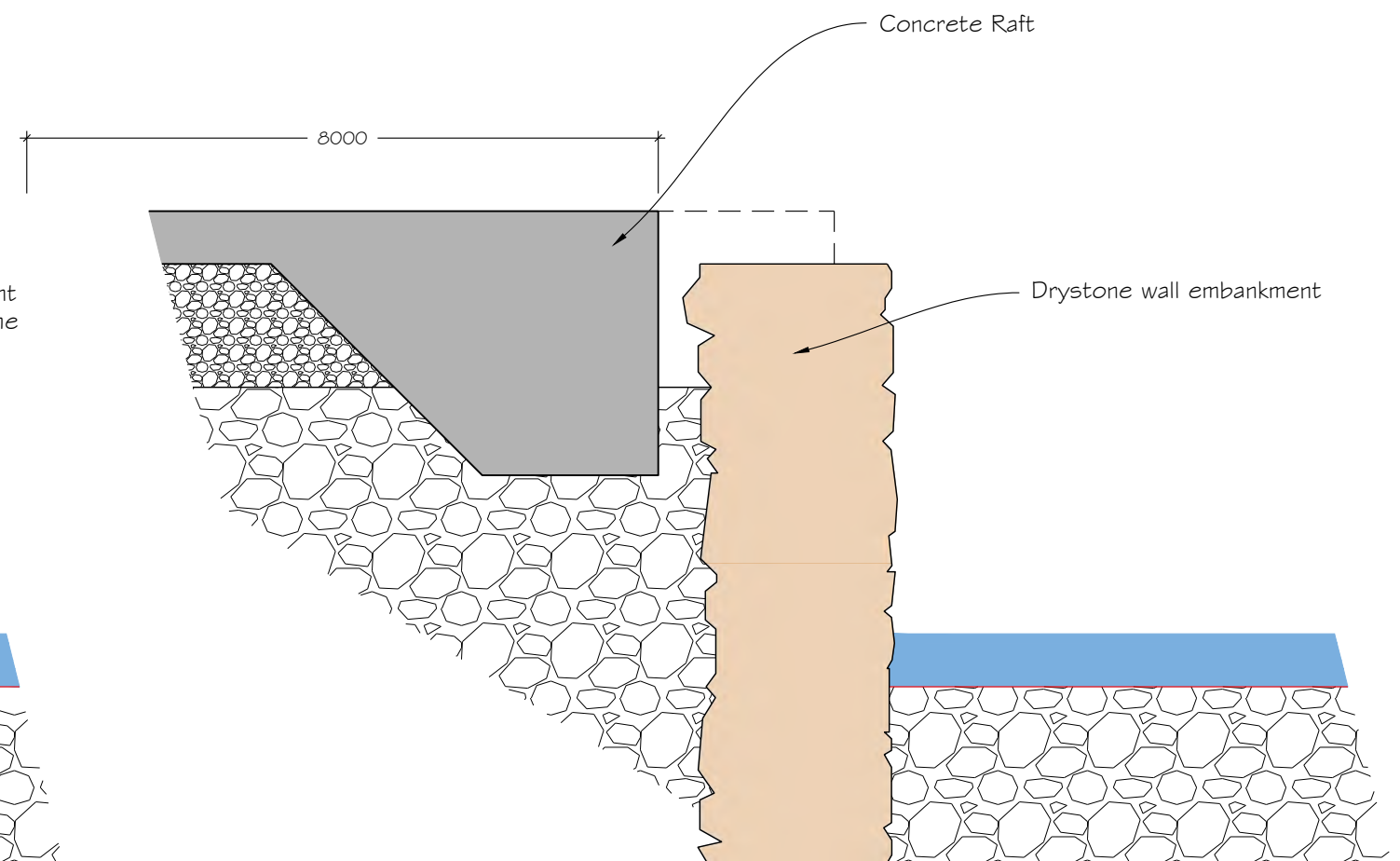
REDUCING THE LENGTH OF THE STRUCTURE BY APPROX 500 MM WOULD BE RECOMMENDED. THE OPPOSITE END IS A ROCK BANK (PIC 8 OF PRECEDING REPORT), SO THE BUILDING CANNOT BE REPOSITIONED FURTHER TOWARD THE BANK.



RAFT EDGE POSITION (EXISTING FOOTPRINT)

Installing the raft to keep the existing structure length of 8500mm will require part of one side of the raft being cast above the embankment wall, with part in the ground which adds significant complexity in the construction and the potential for differential movement.

It will also require significant disturbance to the stream, as works will be required to be undertaken from the an access point in the stream bed. The wall forming the stream embankment will likely require taking down and rebuilding to enable the works.



RAFT EDGE POSITION (REDUCED LENGTH FOOTPRINT - RECOMMENDED)

Reducing the structure length by 500 mm will make the construction more practicable and reduce the access required and disturbance to the stream.



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Client	Dale Maintenance
Purpose / Stage	Concept

Schematic Site Plan

Scale NTS

Drawing No.

2244-T-18

Revision.

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A3