

Extract 2.0 Summary

*This design proposal and associated drawing have been produced using the methodology detailed above. However, it should be noted that the design proposal has been generated from information provided to Geoman Ltd, which **has not been independently verified** and may contain assumptions and inaccuracies regarding geotechnical, hydraulic and other parameters.*

If any discrepancy is noted between the site conditions and the design assumptions (regarding water levels, soil conditions, proposed loadings etc.), the Principal Contractor and/ or Client's Consulting Engineer must contact Geoman Ltd. immediately to facilitate a review of the design.

Geoman Ltd did not undertake to supervise the construction of the structure, and therefore cannot comment on the standard of workmanship. The main issues to consider are adequate compaction of the foundation soils and imported fill, and adequate drainage.

Geoman Ltd accordingly does not accept responsibility for the accuracy or completeness of information or assumptions from which the design proposal has been produced.

Comment: surely at this stage of construction a proposal should reflect **TRUE site conditions** and not what the exclusions point out....

Extract 4.0 Maintenance Requirements

Maintenance requirements for the slopes are as follows;

➤ *The slope should be routinely inspected for signs of any faults, vandalism or movement. The batter of the slope should be checked to ensure it remains within the allowed tolerances.*

➤ *The ground above and below the embankments should also be inspected for signs of any movement.*

➤ *It should be ensured that the front face does not dry out by watering as necessary. The front face should be kept moist.*

This requirement should be included in the maintenance regime for the site/development

The design properties .. 120 years with 75 year warranty

The document does not state the frequency of regular inspections and whom by

The document does not indicate the suitable qualifications of the person carrying out the annual structural inspection

The document does not indicate whom is responsible for maintaining these inspections

There is no proposals indicating how the front face of the construction is monitored & maintained so NOT to dry out

Extract 5.1 SIGNIFICANT DESIGN RISKS REMAINING

12	<i>Structure foundations relying on the Flex MSE wall for stability</i>	<i>It is assumed that all existing or proposed buildings/ structures in the vicinity of the proposed Flex MSE wall are founded at levels deep enough to ensure no loading is transferred to the Flex MSE wall. The Flex MSE walls are flexible and must not be used to support any rigid structures. Building/ structure foundations must not rely on the flexible Flex MSE wall at all for any lateral support and should be designed to support the building unaffected even if the Flex MSE Wall was to move/settle. The provided plans show that several walls run perpendicular to Wall 1. These walls must be of flexible construction and should not be rigid. We recommend that these walls are also constructed as Flex MSE walls</i>
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Comment.

Correctly the document author points out that other walls indicated on the drawings, are not included in the proposed design, because the proposal is NOT a co-ordinated design concept proposal...

This increases an identified risk of future issues that may have long term level issues and additional may block the beck...

Therefore they application should include a fully co-ordinated design

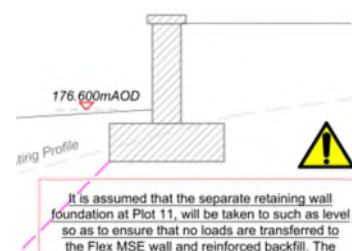
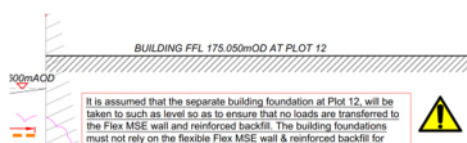
Item 14

refers to a risk of appointing a none experienced installer... a planning condition should be that these works are only carried out by a suitably qualified contractor

Drawings submitted

There are references where the word assumed occurs. Eg's

The actual detailed designs should be established and included



Drainage comment

Extract *Included in the drawings is a 150mm drain*

Stating pipe to be fully roddable and maintained

The plans do NOT show where this 150mm pipe runs linearly to

nor where the suitable rodding point(s) are located

There is NO indication of the pipe discharge location

There is NO inclusion of any specified suitable maintenance regime of the pipework

There is no document submitted that reviews the drainage globally

Hence there is no inclusion of the design flow or operating flow of this system and this flow is NOT deducted or specifically included in the global **site restricted outflow rate**