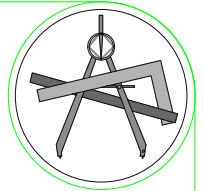


Solutions to Structures Ltd.

Telephone 01639 766935

e-mail julian@solutionstostructures.co.uk www.solutionstostructures.co.uk



13 Tir Celyn, Margam Viillage, Port Talbot Proposed Extension Adjacent to Culvert

Introduction.

Solutions to Structures Ltd. has been instructed to provide a foundation detail suitable for construction adjacent to the culvert headwall and watercourse at the above property.



The proposed extension is to be located in the position of the existing garden shed, the line of the proposed external wall is indicated on the attached photos by the position of the leveling staff on the grass.

The foundation is designed as a trench fill foundation taken down to the founding level of the adjacent structures and isolated from them using 1000gauge polythene which will also contribute to reducing the risk of accidental contamination of the watercourse during the execution of the works.

The proposed extensions width has been reduced from the architects drawings by 250mm to ensure the foundation can be cast without disturbing the existing structures. The trench fill sections may be cast in shorter lengths particularly behind the blockstone to minimise the risks from instability, the top section of the concrete being cast continuously with a layer of reinforcement to effectively tie across any construction joints in the lower sections. The shape of the foundation will provide a stable structure that would act as a support for excavation works to the existing structures if future works become necessary.

Signed

Director
Solutions to Structures Ltd.
15th June 2020.

