

**DO NOT SCALE - IF IN DOUBT ASK**

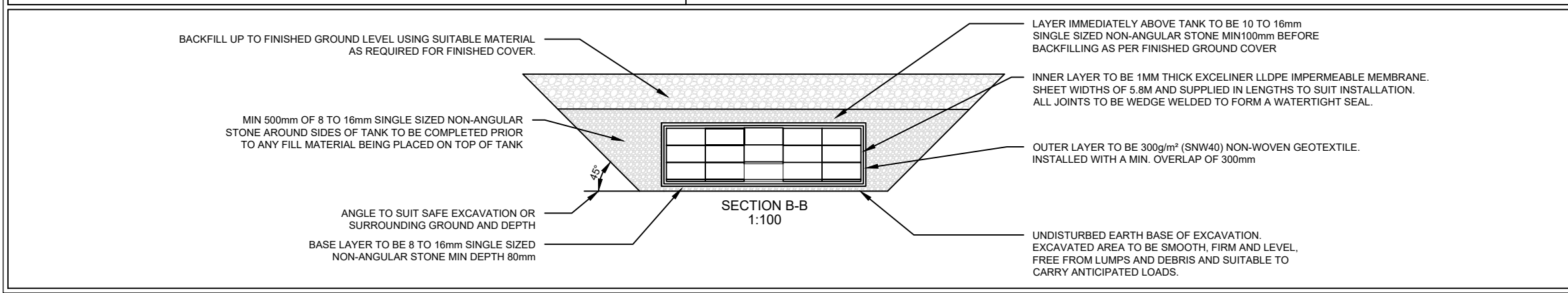
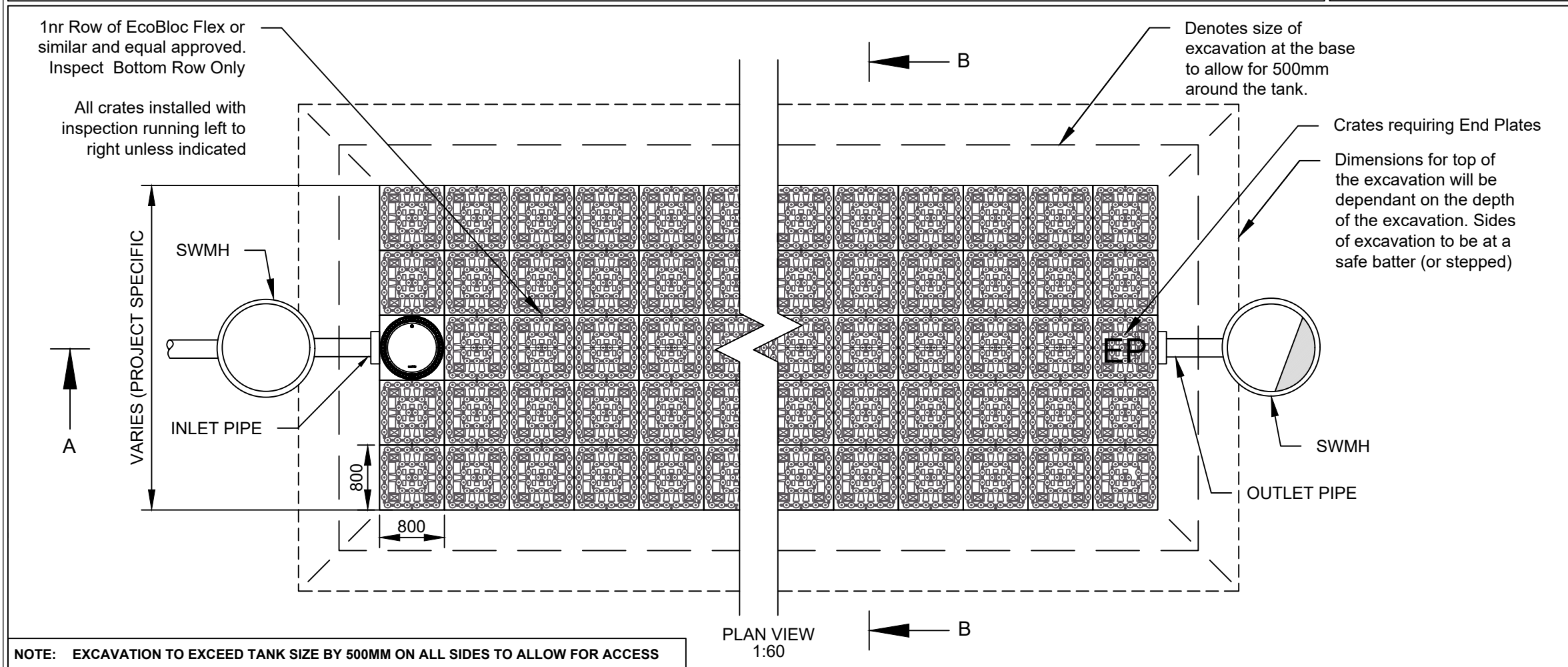
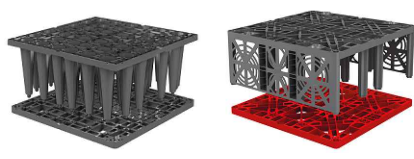
NOTES:-

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3. All site temporary enabling works by others.
4. Graf products to be installed in strict accordance with Graf recommendations.
5. This drawing is intended for guidance only. Confirmation of the suitability for a particular project should be sought from the consulting engineers prior to final design or commencement of any construction works.

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**ECOBLOC MAXX (OR SIMILAR AND EQUAL APPROVED)**

	Crate	Baseplate
Dimensions (mm)	800 x 800 x 350	800 x 800 x 40
Gross Volume (m <sup>3</sup> )	0.225m <sup>3</sup>	0.025m <sup>3</sup>
Net Volume (m <sup>3</sup> )	0.217m <sup>3</sup>	0.020m <sup>3</sup>
Material	Polypropylene	Polypropylene
Weight	9kg	4kg
Void Ratio	>96% depending on number of layers	
Inspectable	Yes, when combined with EcoBloc Flex	



client

project

PROPOSED RESIDENTIAL DEVELOPMENT & ASSOCIATED WORKS AT RADHARC NA MUILEANN, LANESBOROUGH, CO. LONGFORD

stage

PUBLIC CONSULTATION

title

PROPOSED ATTENUATION TANK DETAIL - SHEET 1 OF 3

scale

AS STATED @ A3


surveyed	drawn	checked	date
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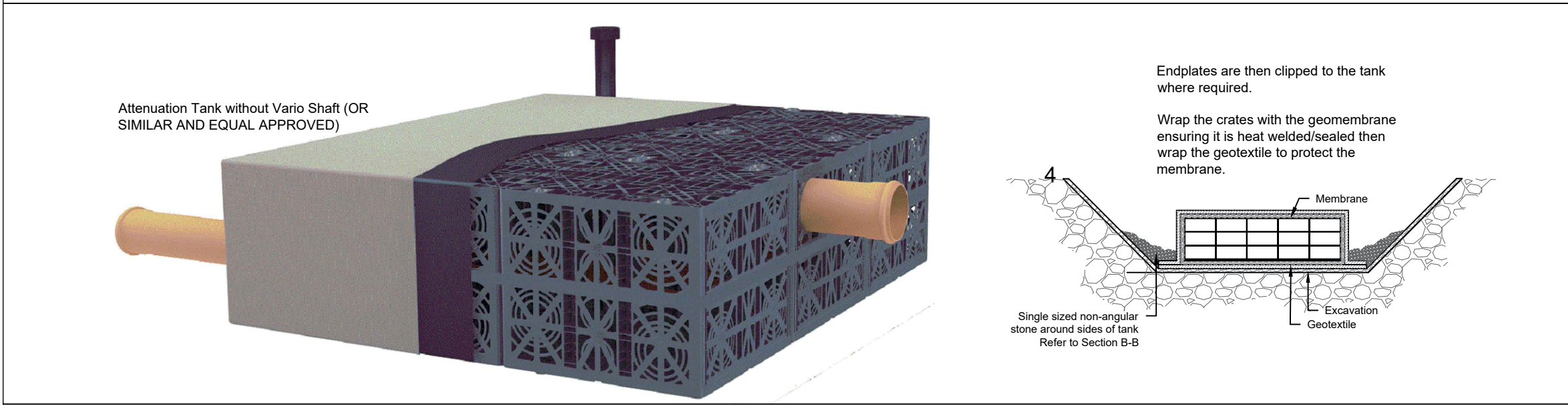
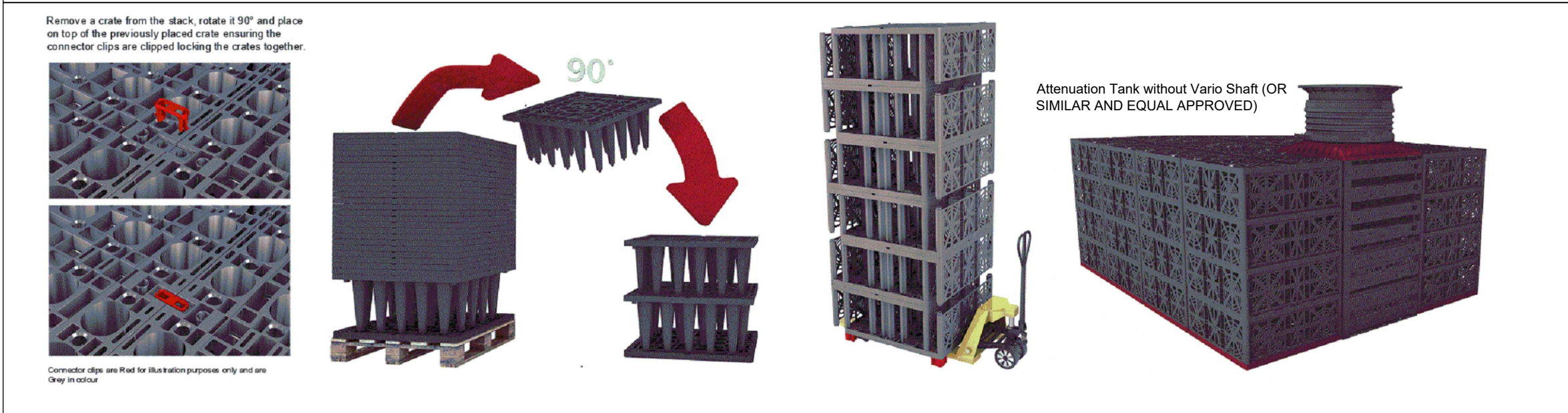
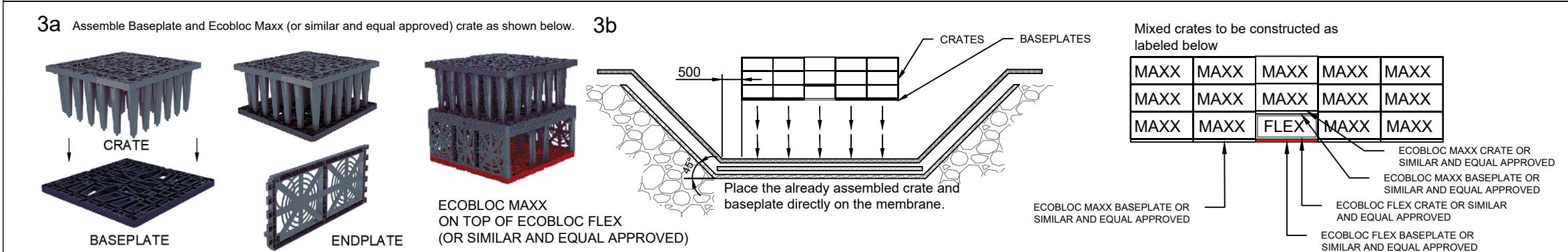
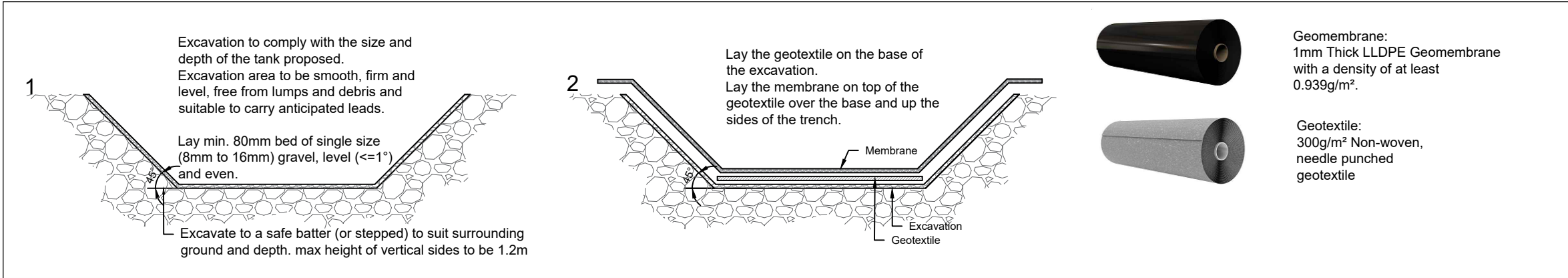
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INSTALLATION METHOD FOR GRAF ECOBLOC SYSTEM (OR SIMILAR AND EQUAL APPROVED) :-				
<div>1. a) Excavate the trench with a safe batter (or stepped) ensuring the footprint allows for sufficient space between tank and the sides. (minimum 500mm around all sides of the tank).</div> <div>b) Mark out the position of the tank including inlets and outlets.</div> <div>c) Lay min. 80mm of single sized non angular stone (8 to16mm) as a base for the tank. This can be laid to a maximum fall of 1°.</div> <div>2. a) Lay the Geotextile over the base the excavation, overlapping any joins by a minimum of 300mm</div> <div>b) Lay the Membrane on top of the Geotextile over the base and up the sides of the trench.</div> <div>c) Membrane must be joined by thermal fusion heated wedge welding. It is recommended that the Dual Seam method is used as this generates an unwelded channel which can be pressured with air to check the integrity of the weld.</div> <div>d) The membrane and geotextile used must meet the specification stated on the drawing.</div> <div>3. a) Assemble EcoBloc Maxx Crate and Baseplate, position leg ends</div> <div>b) into corresponding holes in the Baseplate. The crate will only fit in the correct orientation. Push down firmly to ensure Crate is located correctly. Assemble the row of EcoBloc Flex Crate with baseplates where inspection run is required. If a Vario shaft is to be included within the tank make sure the Vario Shaft base is in position located (Vario Shaft bases do not not require a crate baseplates).</div> <div>c) Install already assembled Crates and Baseplates onto the membrane until the first layer is complete. Insert retaining clips into each adjacent Crate.</div> <div>d) Check and make sure the Row of EcoBloc Flex Crates are in the correct located position where inspection run is required.</div> <div>e) To install the next layer of Crates remove from the stack and turn 90° and position directly above the Crate below. Push down firmly to ensure Crate is located correctly.</div> <div>f) NOTE: You will need to place an additional row of Ecobloc Maxx Baseplates directly on top of the EcoBloc Flex crates only. No more base plates are required.</div> <div>g) Continue until all Crates have been installed, ensuring clips are used to secure each Crate.</div> <div>h) Fit Endplates to the sides of each Crate by positioning the bottom in place then p ushing firmly on the top section to locate into place.</div> <div>4. a) Fix adaptor plates to the sides of the crates in the required position for the inlet and outlet pipes.</div> <div>b) Cut a hole in the Membrane and pull up over the adaptor plate sealing the membrane around the spigot of the adaptor plate.</div> <div>c) Pull Membrane up around the sides and fully wrap the crates, securing the lid in place by heated wedge welding to the side panels.</div> <div>d) Cover top and sides with the Geotextile covering the entire tank to protect the Membrane.</div> <div>e) Install vent pipe connection into the top of the tank at a suitable location.</div> <div>f) Backfill around the tank and for 100mm above with non-angular stone. Backfill to finished ground level with suitable material in layers.</div> <div>g) Connect inlet/outlet pipes using appropriate bandseals.</div> <div>h) In order to prevent silt from entering the tank it is recommended that silt traps or catchpit manholes are installed upstream of any inlet. These should be regularly maintained to avoid the buildup of any silt.</div>				
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PROPOSED RESIDENTIAL DEVELOPMENT & ASSOCIATED WORKS AT RADHARC NA MUILEANN, LANESBOROUGH, CO. LONGFORD				
stage				
PUBLIC CONSULTATION				
title				
PROPOSED ATTENUATION TANK DETAIL - SHEET 2 OF 3				
scale				
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Notice: This drawing is issued only as a guideline and is an estimate of the materials required to construct the drainage system, it should not be used for construction purposes.  
Graf Ireland Ltd makes no warranty or guarantee in relation to the suitability of any of the layout details shown on this drawing in relation to a particular scheme.

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**VARIO 800 TYPE 1 (OR SIMILAR AND EQUAL APPROVED)**

Dimensions (mm) 800 x 800 x 355  
Weight 14kg  
Volume 230 (litres)

**VARIO 800 TYPE 2 (OR SIMILAR AND EQUAL APPROVED)**

Dimensions (mm) 800 x 800 x 660  
Weight 24kg  
Volume 420 (litres)

**VARIO 800 BASE/COVER SET (OR SIMILAR AND EQUAL APPROVED)**

Dimensions (mm) 800 x 800 x 100  
Weight 11kg

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client



project PROPOSED RESIDENTIAL DEVELOPMENT & ASSOCIATED WORKS AT RADHARC NA MUILEANN, LANESBOROUGH, CO. LONGFORD

stage PUBLIC CONSULTATION

title PROPOSED ATTENUATION TANK DETAIL - SHEET 3 OF 3

scale AS STATED @ A3

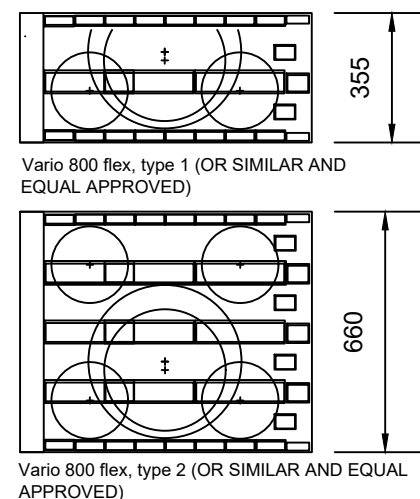
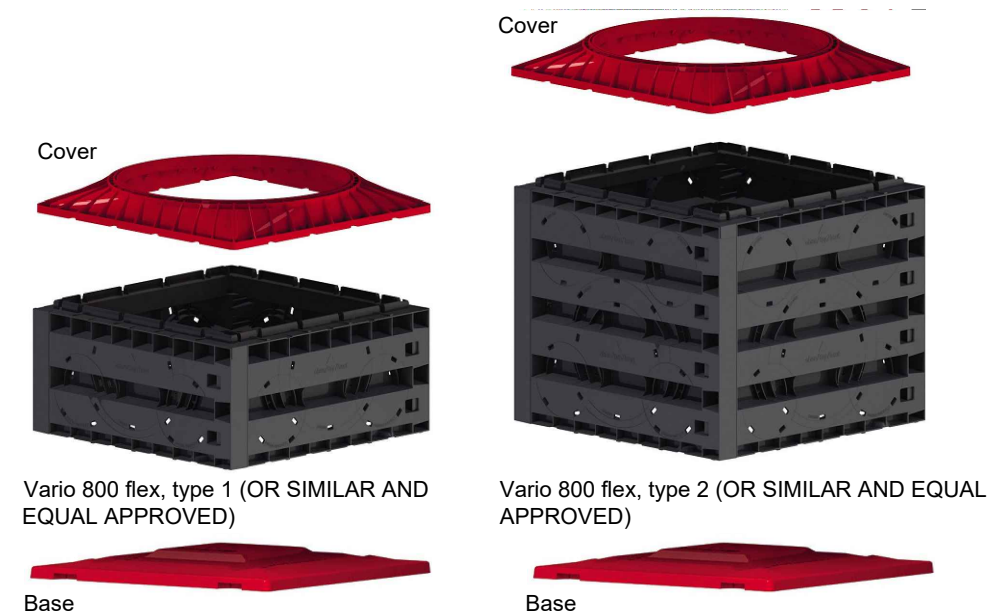
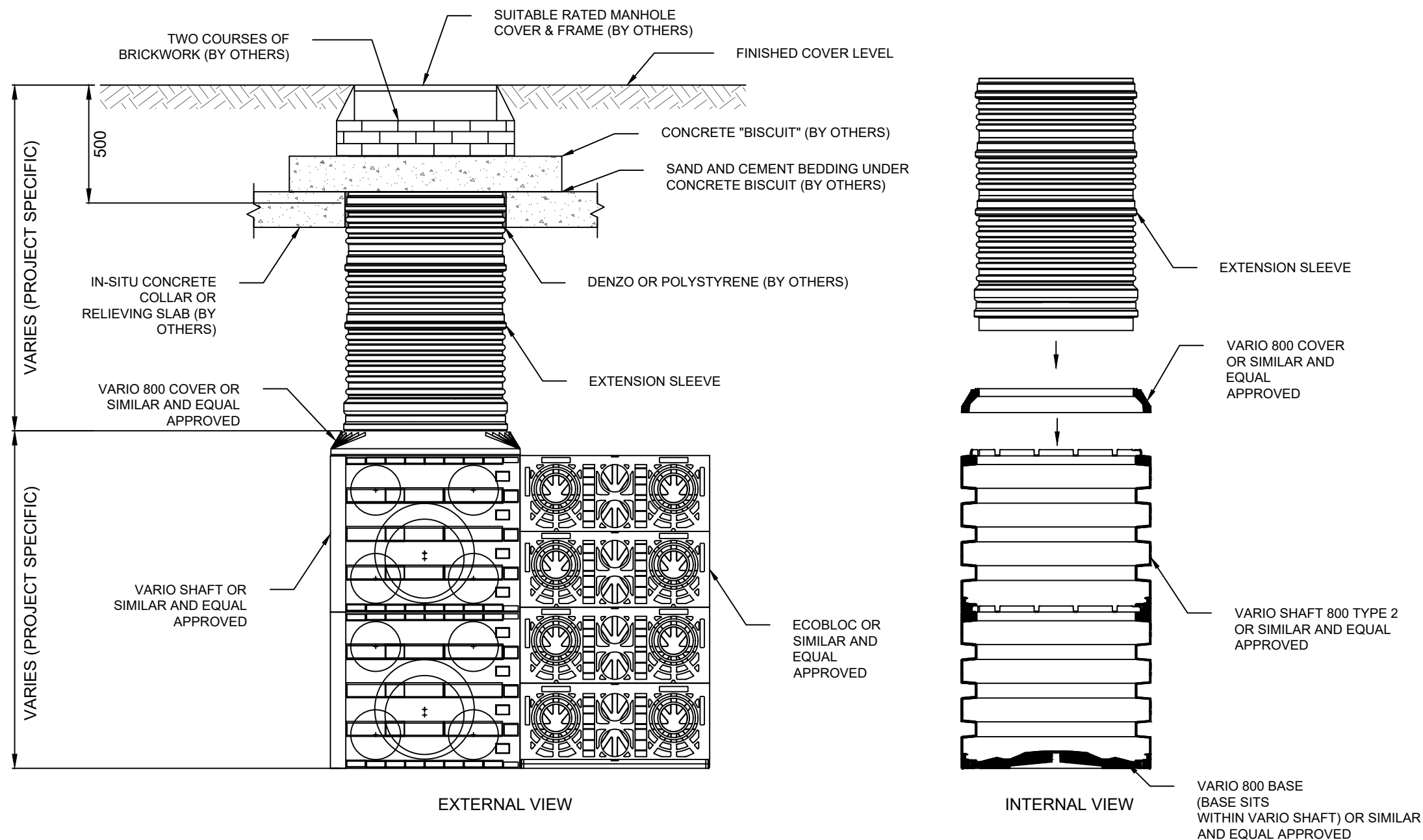
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P.01



Vario 800 (or similar and equal approved) are modular and are easily assembled in a push fit manner.