

Class 2A general fill material placed and compacted in accordance with Table 6 / 1, Specification for Highway Works ,Volume 1 .Series 600 .

Topsoiled Slopes

DOWNSTREAM (Dry Slope)

End of Liner to be placed in Anchoring Trench

Soil Back-fill

UPSTREAM (Wet Slope)

Top Water Level

0.6m Freeboard

300mm Topsoil to Cover Liner

Bentomat CLT to be installed to manufacturers guidance

End of Liner to be placed in Anchoring Trench

Liner to Carry on 2m past bottom of bank

Soil Back-fill

Low Permeability Foundation Soil

Low Permeability Foundation Soil

**\* NOTE :-**  
Very soft to soft Alluvium material identified in Brownfield Consultancy letter report dated 26/01/2017 to be removed and foundation for proposed bund to be taken through this layer to a depth 1.9m approx below existing ground level. Additional monitoring to be undertaken by Geotechnical Engineer during construction to determine extent of very soft to soft Alluvium material.

## Embankment with Impermeable Foundation Detail

**Note:**  
Secondary CLT Collar to be provided at headwalls & pipes (300mm min overlap).

**! NOTE :-**  
Location and depth of existing services to be confirmed and an allowance to be made for protection with concrete surround / reinforced concrete slab as necessary.

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6.0 x 2.0 x 0.15m thickness reno mattresses with 100-150mm nom size stone fill as Maccafferri or similar approved with one layer geotextile as Mactex H35 or similar approved to formation and sides.

DOWNSTREAM (Dry Slope)

Emergency Spillway Level set at 99.70

Bentomat Liner to be laid beneath Reno Mattress on wet side of embankment

UPSTREAM (Wet Slope)

Top Water Level

0.6m Freeboard

Spillway laid at 1:200 at top of Bank, after spillway crest, to provide route for water overflow

Spillway Crest remains level for 1.5m

Discharge to energy dissipater to obstruct flow from 1in4 spillway.

CUT-OFF

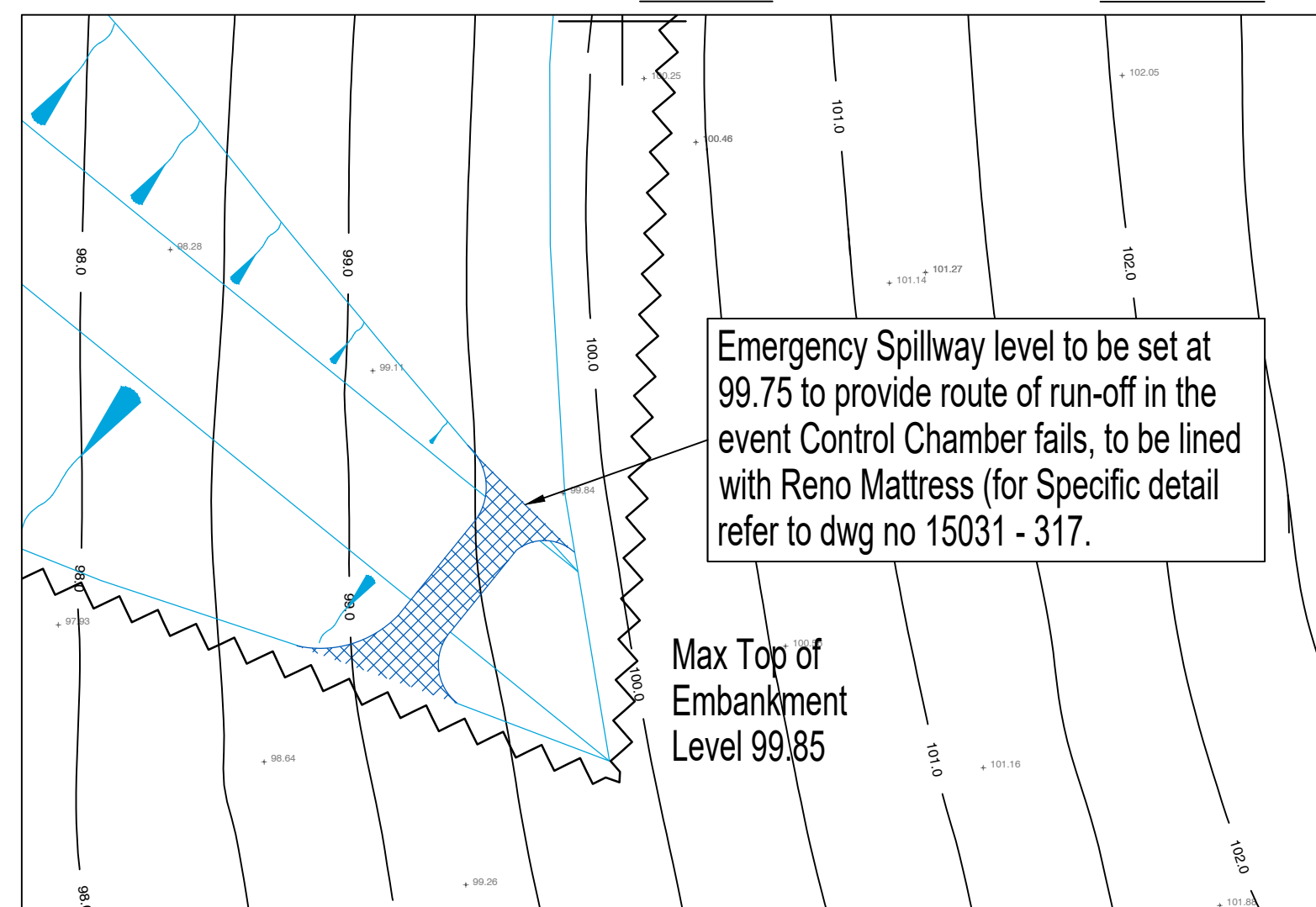
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## Emergency Spillway Detail

**! NOTE :-**  
Location and depth of existing services to be confirmed and an allowance to be made for protection with concrete surround / reinforced concrete slab as necessary.

Plan View

Scale 1:250



<p>The Contractor is to check and verify in conjunction with the Architects details all setting out points, building and site dimensions, levels and sewer invert levels at connection points and ensure that they are fully conversant with the contents and of requirements the site investigation report before work starts.</p> <p>The Contractor is to comply in all respects with current building legislation, British Standard Specifications, Building Regulations etc., whether or not specifically stated on this drawing.</p> <p>This drawing is not intended to show details of ground conditions or ground contaminants. Each area of ground relied upon to support any structure depicted (including drainage) must be investigated by the Contractor any areas of formation for said structures which do not accord with the anticipated conditions as described in the site investigation report are to be immediately notified to the Engineer, where applicable. Any suspected fluid ground or ground contaminants on or within the ground should be further investigated by a suitable expert. Any earthworks shown indicate typical slopes for guidance only and should be investigated further by a suitable geotechnical expert.</p> <p>Where existing trees are shown to be retained they should be subject to a full Arboricultural inspection for safety. All trees are to be planted so as to ensure they are a minimum of 5 metres from buildings and 3 metres from drainage and services, where applicable. A foundation is to be provided to accommodate the proposed tree planting, where applicable.</p> <p>© This drawing and the building works depicted are the copyright of Banners Gate Ltd and may not be reproduced or amended except by written permission. No liability will be accepted for amendments made by other persons.</p>						Client			Project			Title			Status			<div><div></div><div>BANNERS GATE</div><div>CIVIL, STRUCTURAL &amp; ARCHITECTURAL DESIGN SERVICES</div><div>10-11 Birmingham Street, Halesowen, West Midlands B63 3HN</div><div>Tel: 0121 687 1500 Fax: 0121 687 1501</div><div>E-mail: mail@bannersgate.com</div></div>					
															<p>Please note while these drawings may be used for tender purposes, drawings are subject to Client approval as part of ongoing consultations and design checks.</p> <p>Amendments may therefore be requested.</p>								
															Date 1:25 @ A1						Drawn LJ		
															Date September 2016						Checked JB		
															File						Drawing		
															15031/dwgs/civils/current						15031-317B		
B A -			Title corrected and spec of fill material to embankment amended. Emergency spillway construction detail added to drawing. First Issue			05.03.2017 05.10.16 21.09.16			JB LJ LJ														
Rev.			Description			Date			By														