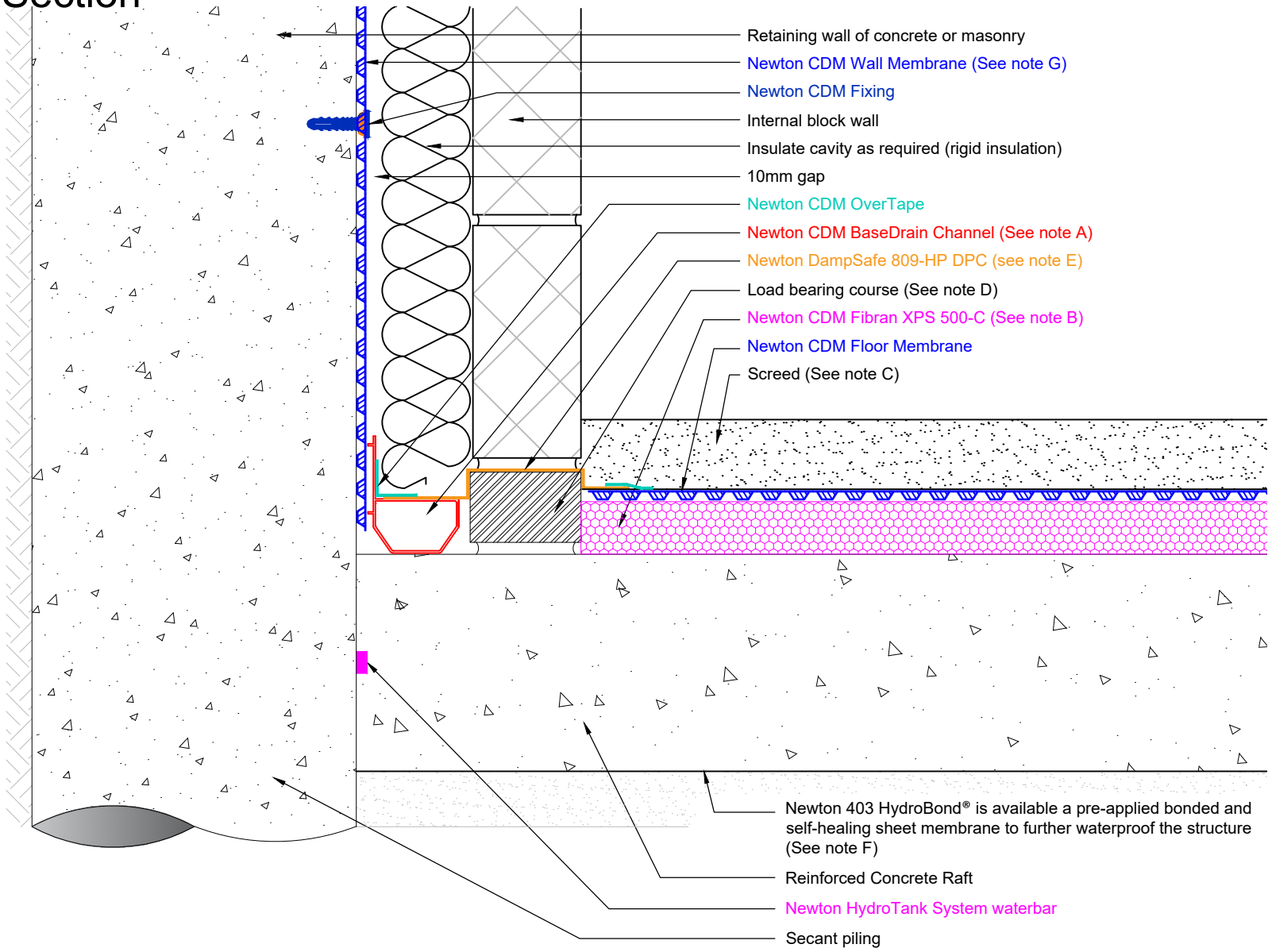
DO NOT SCALE

Section



Notes

The structure should be constructed to BS EN 1992 (Eurocode 2), and of sufficient mass and quality so as able to resist heads of water pressure as required by BS8102.

All construction joints (day joints, shrinkage joints, movement joints etc) should be waterproofed with Newton System 300 waterbars to limit water ingress thorough joints in the structure.

It is recommended that the concrete be treated with Newton 906 Lime Inhibitor to limit the leaching of free lime from the concrete.

A. Newton CDM BaseDrain should always be laid level and connected to the sump chamber or safe gravity drainage with at least two Drainage Connectors, see drawings CDM-P03 (BaseDrain Layout & Parts) and CDM-P09 (Titan-Pro Pump System). Construction joints to the floor should be protected by Newton CDM FloorDrain, see drawing CDM-D01 (Construction joints protected by Newton CDM FloorDrain). For supporting walls detailing please see drawing CDM-D03.

B. Newton CDM Fibran XPS 500-C is placed below the Newton CDM Flooring membrane as a fully drained supporting spacer. The maximum floor load is 16 Mpa (1.6 tonnes/m2). Newton CDM Fibran XPS 500-C has a thermal conductivity of 0.035W/mk and as such will make a significant contribution to the U-value of the floor.

C. Screed to manufacturers recommendations or current British Standard.

D. The load bearing course will be engineering brick or a load bearing insulation if a cold bridge is to be avoided. Newton CDM BaseDrain 'T'-Pieces should be placed through the load bearing course at 2m centres to allow water to pass to the FloorDrain.

E. i) Newton DampSafe 809-HP DPC is taped to the Newton CDM Floor membrane with Newton CDM WaterSeal Tape - not shown.
ii) Take the Newton DampSafe 809-HP DPC across onto the top of the Newton CDM BaseDrain within the cavity as shown, tape to the Newton CDM BaseDrain with Newton CDM WaterSeal Tape - not shown (option).

F. Refer to H-SEC for application of Newton HydroBond System.

G. Wall membrane should be trimmed to 40mm from slab to keep clear of the BaseDrain holes.

This detail is intended as guidance only and provides an understanding of how the products and systems can be configured as part of a waterproofing strategy. It should be understood that the detail is not the project waterproofing design and that by providing the detail, Newton are not fulfilling the role as appointed waterproofing designer as recommended by BS 8102:2022.

Newton or our delivery partners can fulfil the appointed role of waterproofing designer. Please speak to our Technical Team for further information.

To access further details and relevant technical information please call our Technical Team on 01732 360 095 or refer to our website.

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Newton CDM System

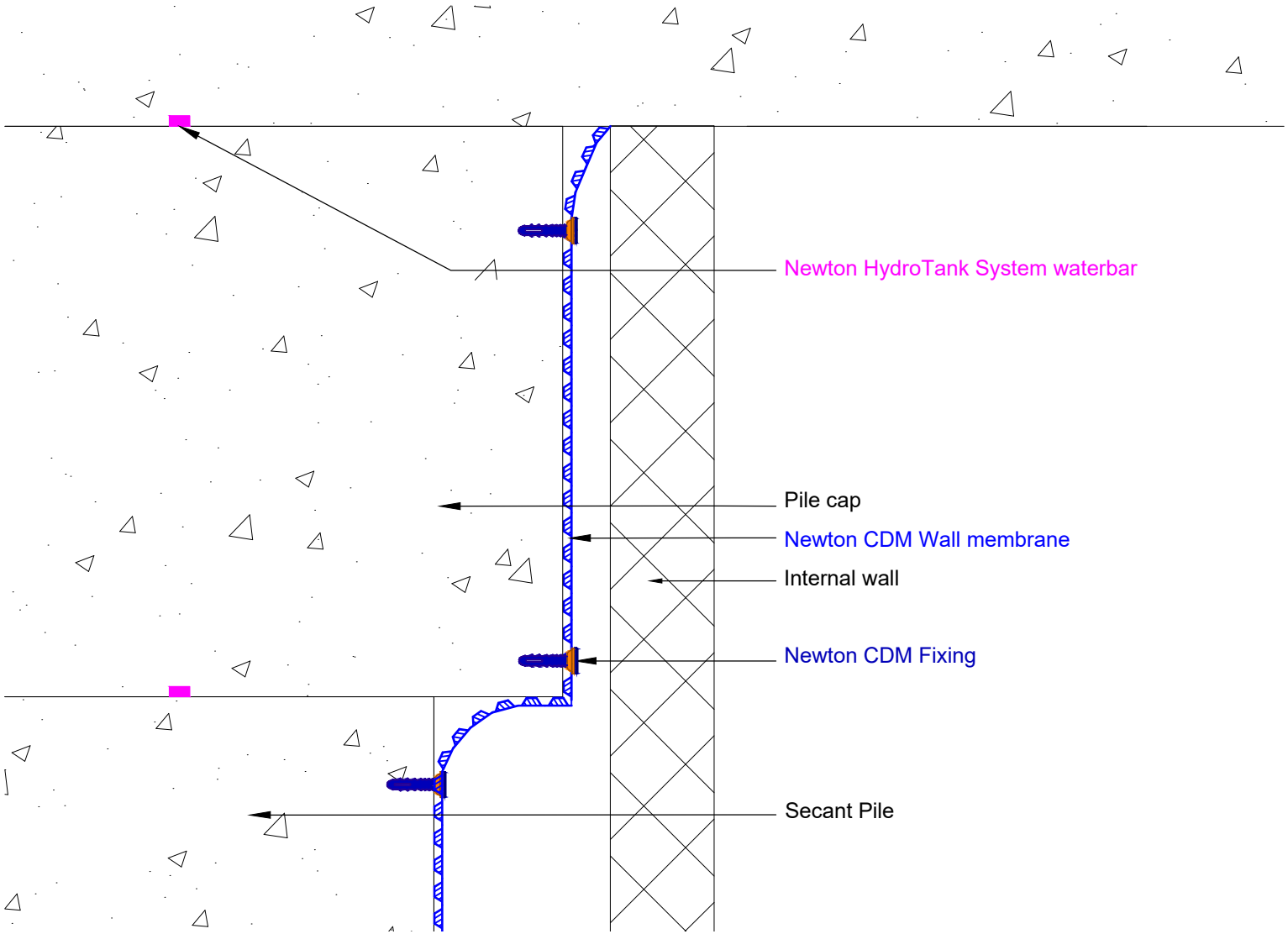
Secant piling

Drawing 1 of 3 Detailing typical wall to floor continuity

Reference	CDM-SECA-01	Designed	DGB
Revision	D	Drawn	PJN
Date	03/07/2025	Checked	TC

DO NOT SCALE

Section



Notes

This detail shows the termination of Newton CDM System in front of Secant piles.

This system is suitable for habitable Grade 3 of the environmental table within BS8102:2022 where no dampness is tolerable.

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Newton CDM System

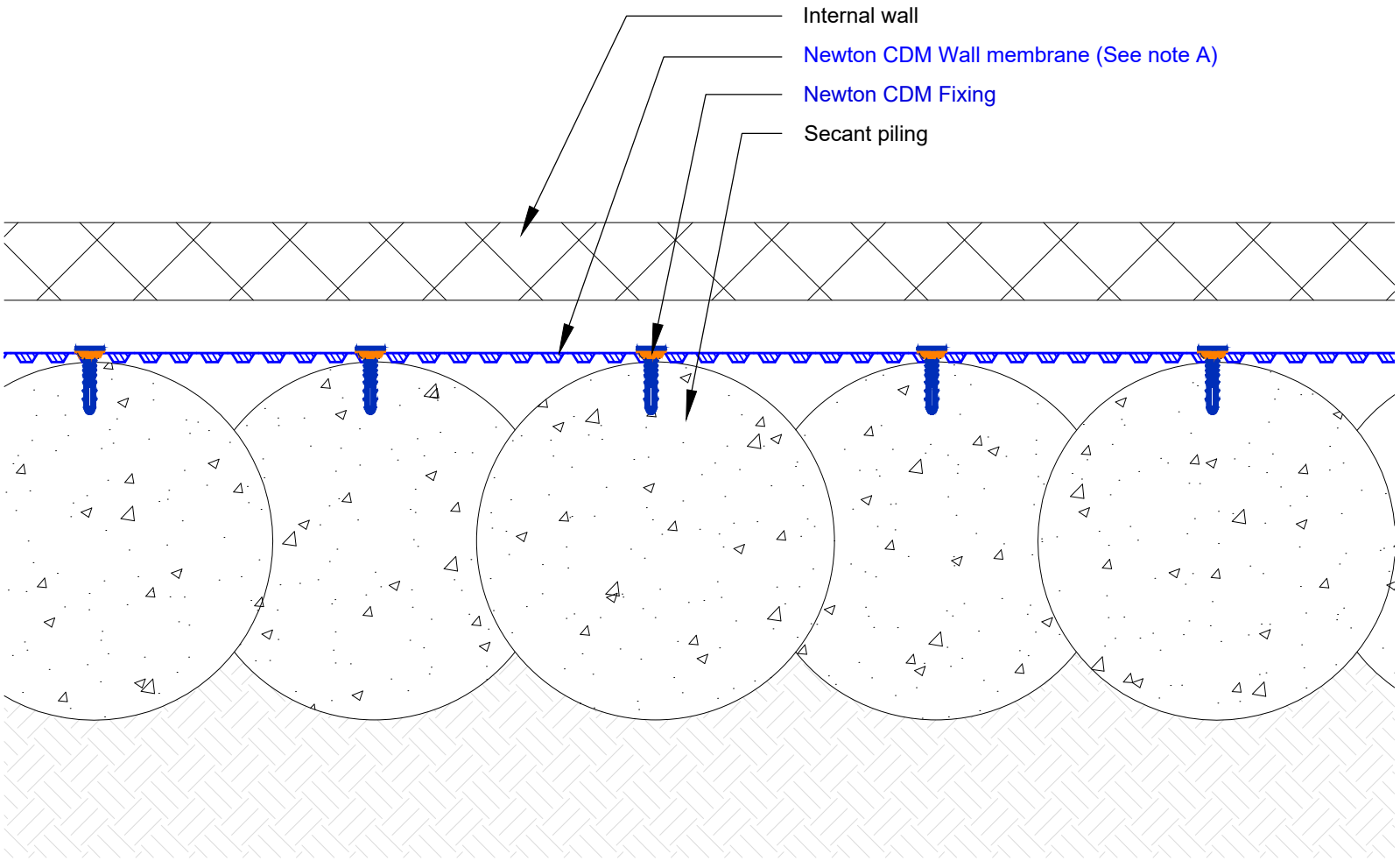
Secant piling

Drawing 2 of 3 Detailing to capping beam

Reference	CDM-SECA-02	Designed	DGB
Revision	D	Drawn	PJN
Date	03/07/2025	Checked	TC

DO NOT SCALE

Plan



Notes

This detail show the methods for fixing the Newton CDM System Wall membrane to Secant piling.

A. Ensure all lap joints for the Newton CDM System Wall membrane and but joints for the Newton CDM BaseDrain occur at the inner most face of the piles.

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Newton CDM System

Secant piling

Drawing 3 of 3 Plan showing typical fixing of Wall membrane

Reference	CDM-SECA-03	Designed	DGB
Revision	D	Drawn	PJN
Date	03/07/2025	Checked	TC