

DN (mm)	Supported trench minimum width (OD <sub>h</sub> + x) m	Unsupported trench minimum width $(OD_h + x)$ m	
		β > 60°	β ≤ 60°
≤225	OD <sub>h</sub> + 0.40	OD <sub>h</sub> + 0.40	
>225 to ≤350	OD <sub>h</sub> + 0.50	OD <sub>h</sub> + 0.50	OD <sub>h</sub> + 0.40
>350 to ≤700	OD <sub>h</sub> + 0.70	OD <sub>h</sub> + 0.70	OD <sub>h</sub> + 0.40
>700 to ≤1200	OD <sub>h</sub> + 0.85	OD <sub>h</sub> + 0.85	OD <sub>h</sub> + 0.40
>1200	OD <sub>h</sub> + 1.00	OD <sub>h</sub> + 1.00	OD <sub>h</sub> + 0.40

In the values  $OD_h + x$ , x/2 equals the minimum working space between the pipe and the trench wall or the support if present. Where OD<sub>h</sub> is the horizontal outside diameter, in metres

 $\beta$  is the angle of unsupported trench side measured to the horizontal

Table 1 BS EN 1610: 2015 - Minimum trench width depending on the nominal diameter (DN) of the pipe.

Trench Depth (m)	Minimum trench Width (m)			
<1.00	No minimum width required			
≥ 1.00 ≤ 1.75	<1.00			
> 1.75 ≤ 4.00	<1.00			
> 4.0	<1.00			
a maximum depth of unsupported trench				

Table 2 BS EN 1610 : 2015

Minimum trench width depending on the trench depth Althon or similar approved 300mm topsoil, planting to headwall with three sided be specified by others guard rail. >> 300mm Ø

Impermeable clay subsoil to

be used as pond formation

Refer to BGL standard

construction details

Typical Pond Detail



IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING CONSTRUCTION

EMOLITION

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

1. This drawing shall be read in conjunction with all the relevant Architects, Engineers' and Service Engineers drawings & specifications.

P03 | 15/04/24 | HN | Contract Issue P02 24/11/23 JW Pond detail added



P01 06/07/23 AJ Preliminary Issue

DATE

Altrincham WA15 8DB



**FORNAX NEWTON AYCLIFFE** 

DRAINAGE AND EXTERNAL DETAILS SHEET 3 OF 4

OUR PROJECT NUMBER	DRAWING STATUS	OFFICE		
22242	PRELIMINARY	NOI	NORTH	
SCALE @ A1	DATE	DRAWN BY	CHECKED BY	
1:100	04.07.2023	AJ	MG	

22242-BGL-XX-XX-DR-C-00223 P03