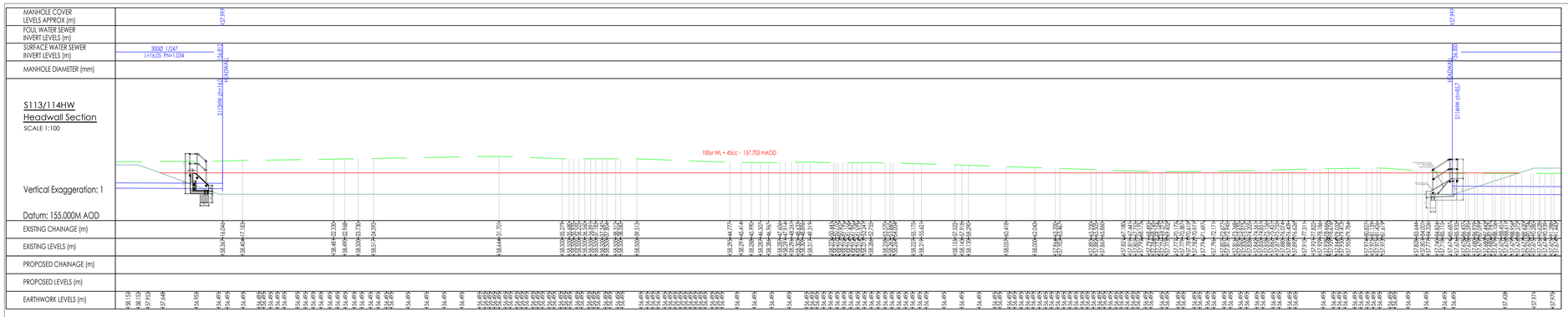
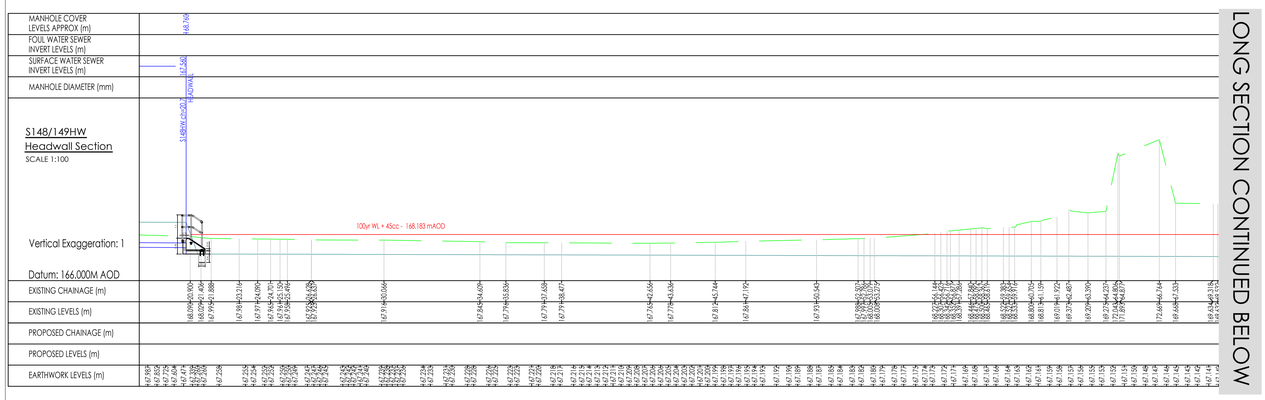
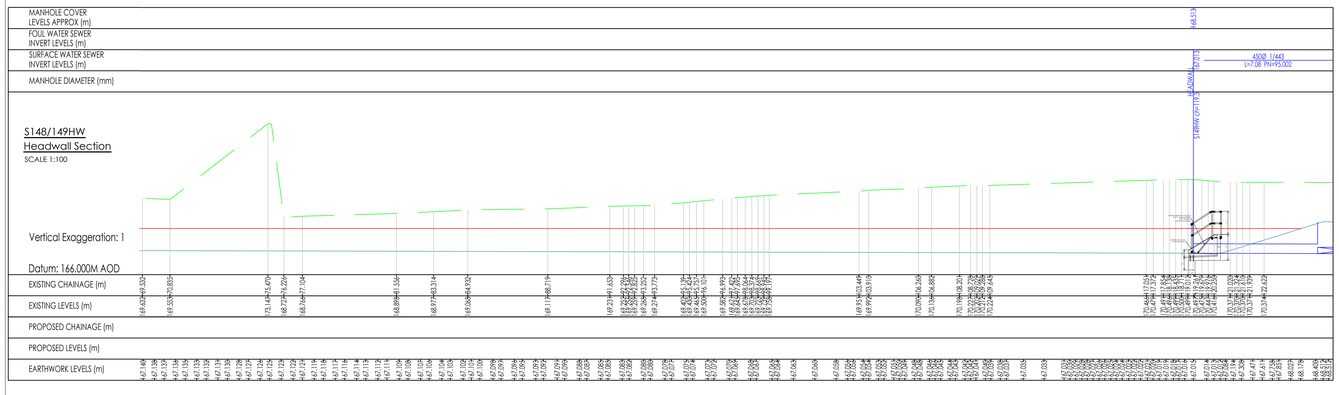
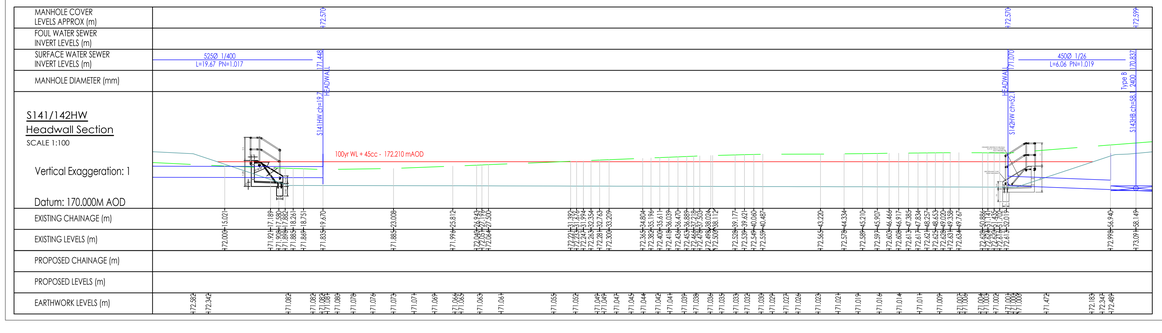








Notes:-

Specification for site won and site imported clay to be used as a pond liner:

1. General
 Material to be used as puddle clay shall be naturally occuring homogeneous plastic material. It shall be free from deleterious matter such as sand, stones and organic material. The use of lime-stabilised clays shall not be allowed.

2. Properties
 a. More than 65% of the natural material shall be finer than 0.06mm and more than 40% shall be finer than 0.002mm.
 b. The natural material shall be defined as firm clay in accordance with bs5930:1981 table 8 (cu 40-75 kpa).
 c. The natural material shall be defined as clay of intermediate to extremely high plasticity in accordance with bs5930:1981, figure 31 and the liquid limit shall not be less than 35%.
 d. The coefficient of permeability (k) of the remoulded material shall not be greater than 10 -9 m/s.
 e. The remoulded material shall be defined as non-dispersible (nd1) in accordance with bs1377:part 5:1990, table 2.

3. Identification
 An indication of a material's suitability may be obtained from the following empirical tests, at the moisture content agreed for placement.
 a. Tenacity test
 A 300mm long, 25mm diameter cylinder of clay is held vertically for 15 seconds so that at least 200mm is unsupported and in tension under its weight. If the cylinder breaks the Clay will be rejected as unsuitable.
 b. Pinch test
 A 75mm diameter ball of remoulded clay is squeezed into a 25mm thick flat disc. If any cracks appear the clay may be rejected as unsuitable.
 c. Slaking test
 A 50mm diameter ball of remoulded clay is placed in a 600ml beaker and covered with water if the ball disintegrates within 24 hours the clay may be rejected as unsuitable.
 d. Permeability test
 A sample of remoulded clay shall be formed into a tray to hold 20 litres of water and the loss measured after 24 hours. This shall be compared with the water loss from a metal tray of the same surface area holding the same quantity of water. If the difference is Greater than 1% the clay may be rejected.

NOTE
DETAILS ON THIS DRAWING ARE SUBJECT TO TECHNICAL APPROVALS

Legend

- Existing Ground Level
- Proposed Ground Level
- Foul Water Sewer
- Surface Water Sewer

Rev	Work 1 Date	Details	By
P01	10.11.25	Preliminary Issue for review	MW

Revision History

Drawing originator:

BETTS HYDRO CONSULTING ENGINEERS
BETTS ASSOCIATES CONSULTING ENGINEERS
BETTS GEO CONSULTING ENGINEERS

Client:

Project title:

Land off Hollingworth Road
Littleborough

Drawing title:

S104
Basin Details
Sheet 1 of 2

Scale:	As Shown	for the original size of A0		
Drawn by:	WM	Checked by: NR	Passed by:	Date: Nov' 2025

Drawing status:

For Approval

Job No:	Drawing No: Project	Origin	Volume	Level	Type	Class	Number	Revision:
BLH36	XX	BET	ZZ	XX	DR	C	1019	P01

Do not scale this drawing

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