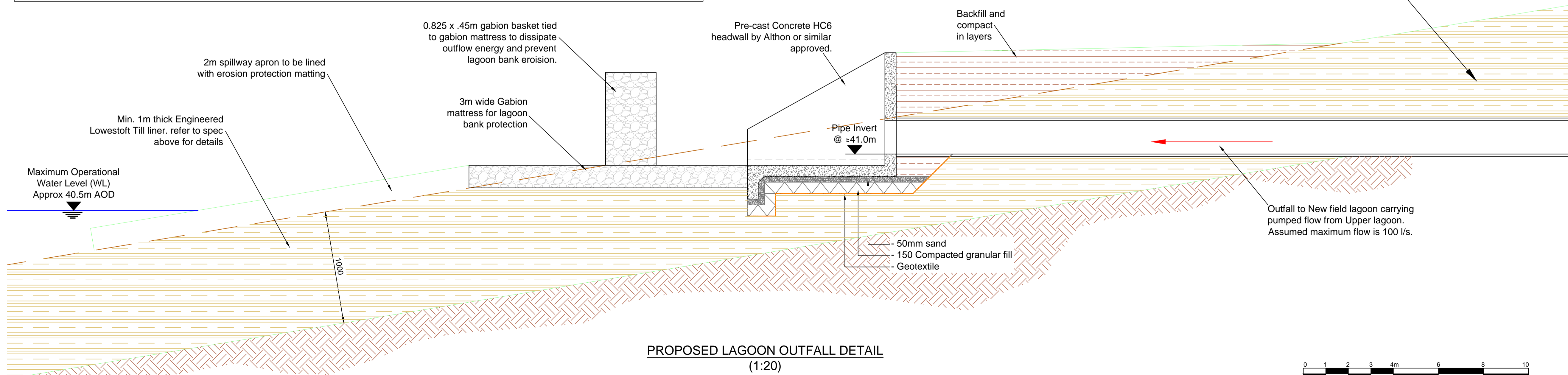


ALTHLON HC3 HEADWALL INSTALLATION

- 1. Bank Profile**
Ensure no part of the headwall protrudes into the watercourse and that the wing wall profile matches the bank profile as closely as possible.
- 2. Excavate & install Headwall**
Excavate to firm undisturbed soil, free of vegetation. Excavate bank to safe slope (45°) behind headwall. Excavate locally for the toe approximately 50mm below required depth. Line base of excavation and toe area with geotextile. Lay a minimum of 150mm selected, uniformly graded, granular fill on the base and compact well, then a 50mm blinding layer of sand. Line toe area with selected, uniformly graded, granular fill and compact well. Lift headwall into position ensuring a slight fall towards the toe. Once in its final position place selected, uniformly graded, granular fill around the toe and compact well.
- 3. Backfill & Reinstate**
Backfill pipe section first then backfill all around headwall with as dug material. Make good at front of toe with as dug material ensuring river bank is returned to its original profile. Erosion protection in front of the toe is to be provided as per the details.

ENGINEERED LOWESTOFT TILL LINER SPECIFICATION

- The Engineered Lowestoft Till liner shall meet the following requirements:
 - An engineered low permeability clay with Unit weight - 19 kN/m³.
 - Effective Cohesion C' = Average - 32 kPa, Lower bound - 20 kPa.
 - Angle of Shearing Resistance ϕ' = Average - 17°, Lower bound - 17°
 - Saturated Water Content - 27%
 - Permeability < 1 x 10⁻⁸ m s⁻¹ (BS1377: 1990: Part 6)
- A vibratory sheepfoot roller or other suitable compaction plant approved by (Supervisor) should be used for construction of the clay liner. The surface of compacted clay shall be sealed with a smooth roller after each shift.



Revision	By	Chk'd By	Date	Comments
1	IMR	GR	July 16	Notes Amended
0	IMR	DP	July 16	Initial Issue (Detail from drawing 009, Rev 2)

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Site RIVENHALL AIRFIELD	
Project River Blackwater Abstraction	
Drawing Title PROPOSED NEW FIELD LAGOON INTAKE AND OUTLET DETAILS	
Scale AS SHOWN	Date JULY 2016
Drawing Number 109	Revision 1
DRAFT	

