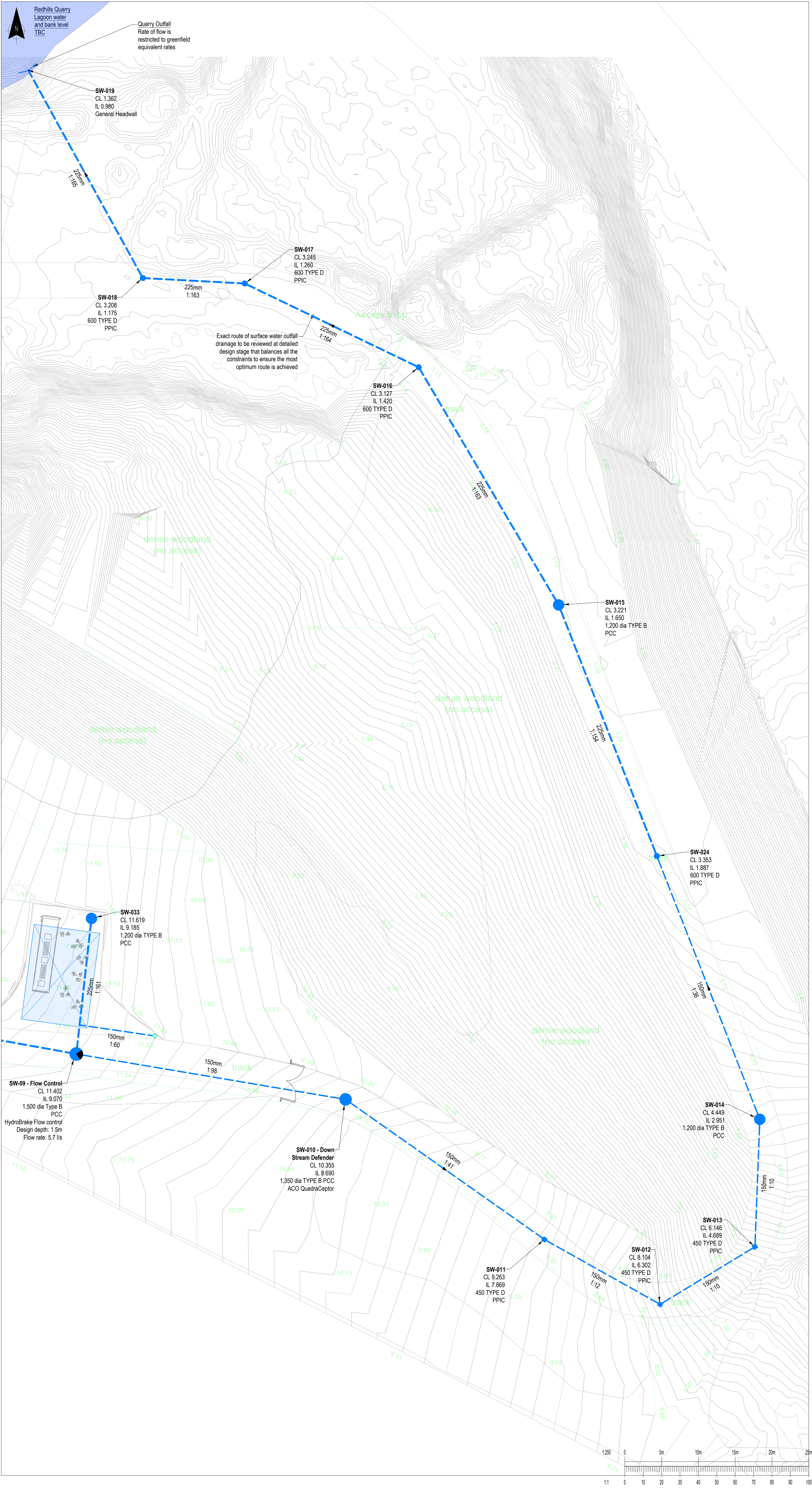




GENERAL NOTES:

- 1. This drawing is to be read in conjunction with all relevant architects and engineers drawings and specifications.
- 2. Do not scale this drawing, any ambiguities, omissions and errors on drawings shall be brought to the engineers attention immediately. All dimensions must be checked / verified on site.
- 3. All dimensions are in metres unless noted otherwise.
- 4. For general notes refer to drawing and 92001.

KEY:

- Surface water private drain
- Surface water flow control
- Incoming backdrop IL
- Rainwater pipe
- Surface water private gully
- Surface water highway gully
- Filter drain (perforated pipe)
- Channel drain (with Access, and Sump box)
- Pervious pavement
- Below ground surface water storage tank
- Foul water private drain
- Foul water rising pump main
- Foul water pop-up
- Existing major (0.5m) and minor (0.1) contours
- Proposed major (0.5m) and minor (0.1m) contours
- Existing Topographical information

Surface Water Drainage Philosophy - Outfall to Quarry (North)

- 1. Surface water drainage drain via permeable paving and surface water gullies. Catchment of the proposed site to drain down the hill following existing road centerline.
- 2. Drainage to be limited to greenfield rates before outfalling to Redhills Quarry to the north.
- 3. Existing catchment area to Quarry: 0.875ha
- 4. Equivalent Qbar runoff rate from catchment: 6.6 l/s
- 5. Proposed Impermeable area: 0.305ha
- 6. Proposed (1:1yr) restricted runoff rate 5.7 l/s.
- 7. Rate of runoff equates to a 58% betterment over the 1:100 greenfield runoff rate).
- 8. Attenuation Volume required: 160m³ A cellular attenuation tank to accommodate volume for all storms up to and including the 1:100 yr + 35% climate change located under coach turning head.
- 9. A combination of permeable paving, gravel filled filter trenches, silt trap/catchpit chambers, and ACO Quadraceptor provides water quality improvement.

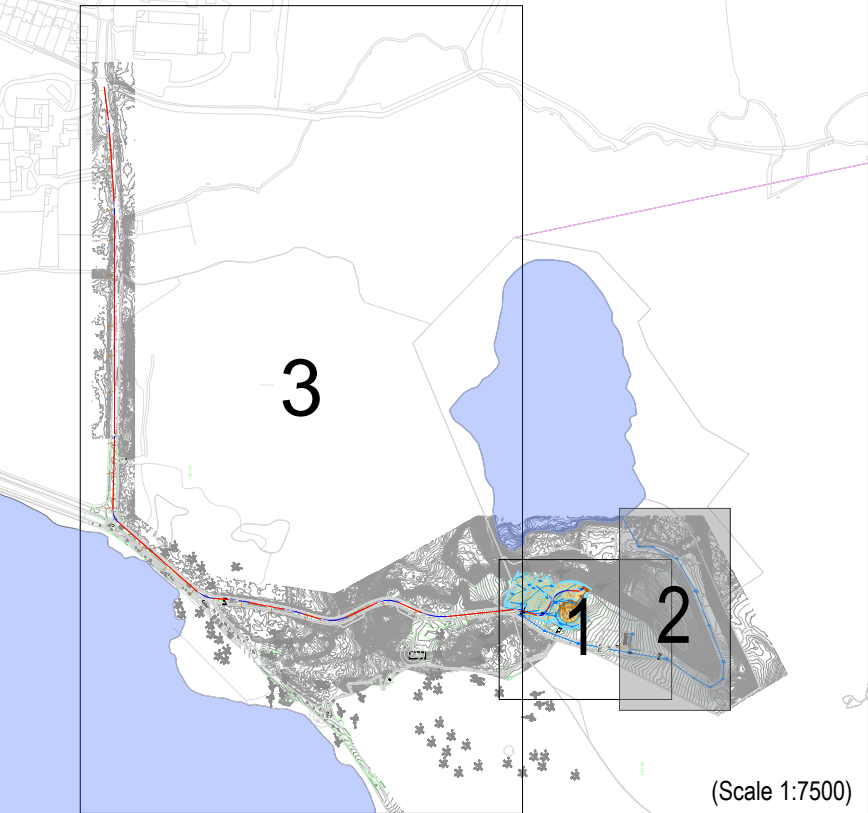
Proposed Foul Drainage Philosophy

- 10. Foul to drain to pumping station on north east side of site.
- 11. Foul drainage to then be pumped circa 1km into neighbouring town's (Milom) public sewer assets.
- 12. Foul Loading - TBC
 - British Water Foul Flows and Loads - Code of Practice
 - Canteen 58 covers -10 l/p/a
 - Staff 10 works -50 l/p/a
 - Visitor Toilets - 150 visitors -10 l/p/a
 - Total flow -2,870 l/d
 - Over 9h opening time
 - =2,870/(9 x 3,600) ≈ 0.01 l/s

Design Notes:

- 13. Below ground pipes Ø to be 100mm for Surface water, and 150mm for foul UNO.
- 14. Invert levels are for chamber outfall pipes, UNO.
- 15. Placement of lids/covers/frames to suit paving patterns where possible and to be wholly within one surface pavement type where possible - to landscape architects specification.
- 16. Final placement of internal foul pop-ups to be confirmed.
- 17. 24hr Emergency pump storage based on foul loading total flow.
- Information require from others to develop design:
- 18. Pumping station, pressure break/air admittance/flush out chambers and rising main to be designed by specialist.
- 19. Quarry outfall bank levels and water level range to be confirmed.

SHEET LAYOUT



P02	REVISED SCHEME FOR PLANNING	08/04/25	CC	GW
P01	INITIAL ISSUE	15/05/23	CLN	GW
Rev:	Description:	Date:	By:	Chkd:

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Status: **SUITABLE FOR INFORMATION** **S2**

Client: **STORY** **Cumberland Council**

Project: **MILLOM IRON LINE**

Dwg Title: **DRAINAGE STRATEGY SHEET 2**

Drawn By	Designed By	Checked By
CC	CC	GW
	Date	Scales @ A1
	07/04/25	1:250
Project No - Originator - Function - Spatial - Form - Discipline - Number		
Revision		
081617 - CUR - 01 - ZZ - D - C - 92002		
P02		

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