



+ DETAILED RUN REPORT - Page 1

Project Name: C1405 - Convent of Mercy, Hillside Drive, Gravesend DA12 1NY

Designer: Anthony Saunter

Project Date: 13th February 2026

Location: 3 Hillside Dr, Gravesend DA12 1NY, UK

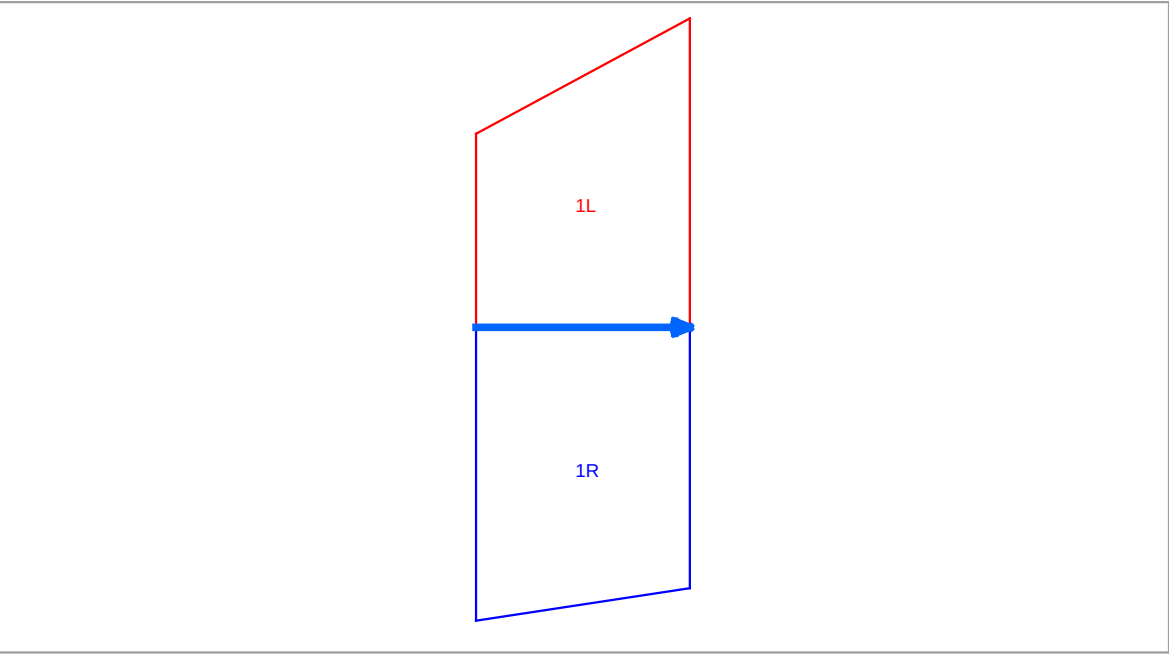
Print Date: 13th February 2026

Project Notes:

+ INPUT DATA:- Run 1: 'Channel Run 01', Option A 'Rev 0'

M5-60: 21mm/hr			Ratio R: 0.44								
LENGTH (m)	AREA (m2)	SLOPE (%)	IMPERM. FACTOR	CALC. EQUATION	RETURN PERIOD (years)	CLIMATE CHANGE (%)	STORM DURATION (mins)	RAINFALL INTENSITY (mm/hr)	INFLOW CONTROL (l/s/m)	Point Inflow Interlinked from	Cumulative Point Inflows l/s
4.54	50.94	3.15	1.00	SVF	100	45.00	5 mins	255.09	None	None	0.00

+ CHANNEL LAYOUT



+ RAINFALL DATA

Duration	Intensity (mm/h)
5 mins	175.92
10 mins	136.15
15 mins	109.10
30 mins	70.21
1 hour	42.63
2 hours	24.81
4 hours	14.38
6 hours	10.27
10 hours	6.80
24 hours	3.39
48 hours	1.93



ACO HYDRAULIC DESIGN



+ DETAILED RUN REPORT - Page 2

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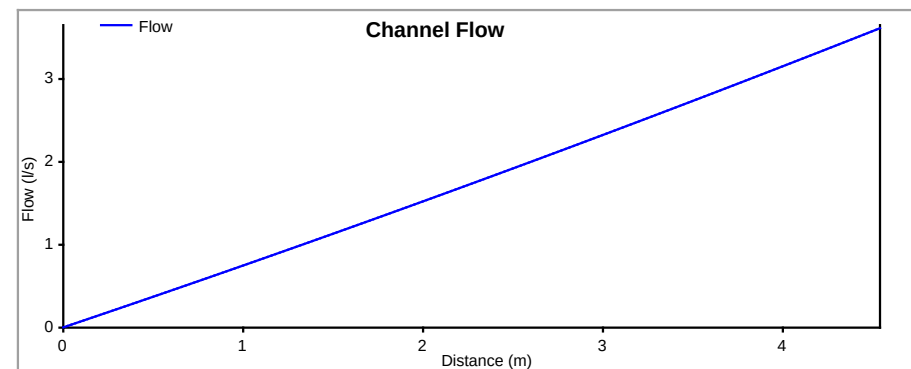
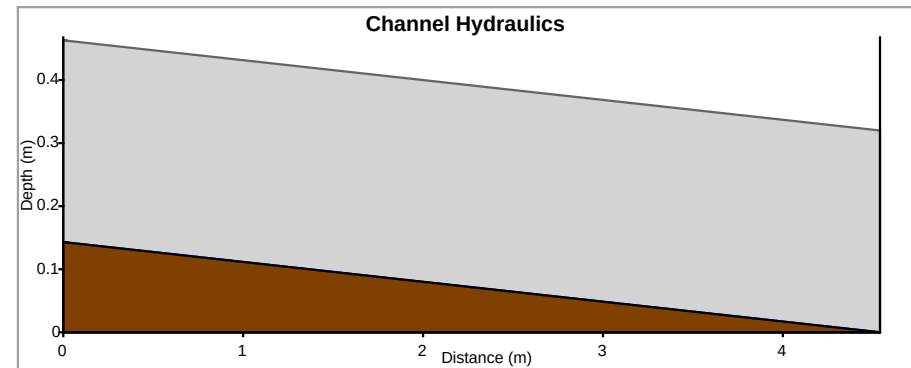
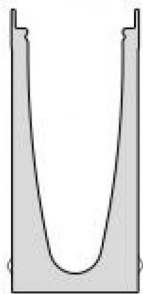
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+ OUTPUTS:- Run 1: 'Channel Run 01', Option A 'Rev 0'

OUTFLOW (l/s)	CAPACITY (%)	MAX* VELOCITY (m/s)	MIN FREEBOARD (m)	EXCAVATION VOLUME (m3)	CONCRETE VOLUME (m3)
3.61	11.79**	0.60**	0.25**	1.64	1.25

MultiDrain MD

1	
System	M200D 20.0
W - Width (mm)	200
H - Invert (mm)	340
Length (m)	4.54



**The flow in this channel varies between sub-critical and super-critical conditions so the depth / velocity calculation is not precise. However, your selected channel will have sufficient capacity to accommodate the defined flow.

Note that optimised solutions will only suggest non-turbulent, sub-critical flow regimes.