



THIS DRAWING IS BASED ON THE FOLLOWING INFORMATION AS PROVIDED:
 DRAWING 207184 - 01 FICHTNER CONSULTING ENGINEERS LTD. PROPOSED EFW FACILITY, NEW ROAD LAYOUT
 CAMERONS LTD. EXISTING UNDERGROUND CULVERT SURVEY
 SB-TPCI 001 J SPIE BATIGNOLLES 1. ROADS & DRAINAGE 2. UNDERGROUND NETWORKS

D	19 / 03 / 14	K.M.B.			LIFT ADDED CATCHMENT AREAS UPDATED
C	08 / 02 / 10	M.E.T.			DRAINED AREAS UPDATED
B	29 / 01 / 10	M.E.T.			BWF REVISED/DRAINED AREA UPDATED
A	04 / 12 / 09	M.E.T.			UPDATED
Rev	Date	Drawn	Checked	Approved	Modifications

JERSEY
- Energy from Waste -

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SURFACE WATER CATCHMENT AREAS

	SURFACE WATER DISPOSAL								DESTINATION
	AREA m ²	M10-15 FLOW RATE (inc +6%) *1		M10-60 FLOW RATE (inc +6%) *1		M50-24hr FLOW RATE (inc +30%) *1			
		m ³ / hr	l / sec	m ³ / hr	l / sec	m ³ / hr	m ³ / 24hrs	l / sec	
BULK WASTE FACILITY ROOF *3	1310m ²	94.3 m ³	26.2 l/sec	37.8 m ³	10.5 l/sec	N / A	N / A	N / A	SW HARVESTING / EXISTING CULVERT
MAIN BUILDING *3	3025m ²	217.7 m ³	64.1 l/sec	87.2 m ³	24.2 l/sec	N / A	N / A	N / A	SW HARVESTING / EXISTING CULVERT
ENTRANCE AREA *3	2605m ²	187.5 m ³	52.1 l/sec	75.2 m ³	20.9 l/sec	N / A	N / A	N / A	BYPASS SEPARATOR - EXISTING CULVERT
EXIT AREA *3	3851m ²	284.7 m ³	79.1 l/sec	114.0 m ³	31.7 l/sec	N / A	N / A	N / A	BYPASS SEPARATOR - EXISTING CULVERT
CONTRIBUTION TO WATER TREATMENT *2	1170m ²	76.9 m ³	21.4 l/sec	30.8 m ³	8.6 l/sec	4.6 m ³	109.5 m ³	1.3 l/sec	WATER TREATMENT WORKS
SOFT LANDSCAPE	1375m ²	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A

*1 All data is based in the M5-60 min rainfall figure for Jersey of 21.9 mm as provided by the Jersey Met Office January 2010. Note: Return periods in the range 0.5 to 10 years were found to be typically within 6% of the observed values, therefore a 6% factor has been added to the M10-15 & M10-60 values. For return periods up to 50 years the error can range from -20% to +30% in part due to the differences in rainfall experienced in the Island, therefore a 30% factor has been added to the M50-24hr values.

*2 For the purposes of design, the total contribution of Surface Water into the Industrial Waste Water System is taken as 110m³ in a single 24hr period. Design criteria allowed for all water in the Industrial Waste Water System to be recycled, therefore disposal of this surface water contribution to foul has not been included.

*3 Pavement Surface water catchment & harvested roof rainwater is disposed of via new connections to the existing culvert.

SUBCONTRACTOR DRAWING TITLE: (BYE-LAWS) 08254 / 0101 / D

DRAWING TITLE:
SURFACE WATER CATHCMENT AREAS

Dpt : Format : Scale : 1/300 @ A1

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