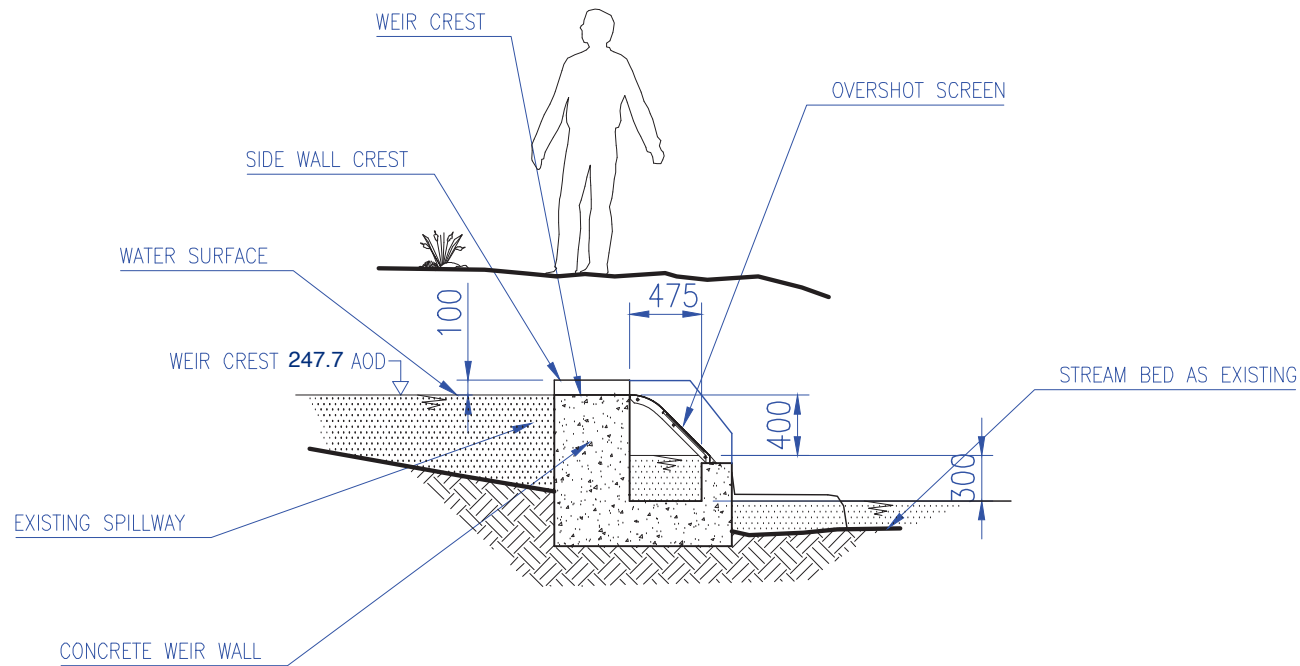


Proposed Eel substrate made from bristle brush within a flexible pipe and buried in the bank from the impoundment to the pool beyond the weir to completely bypass the structure.

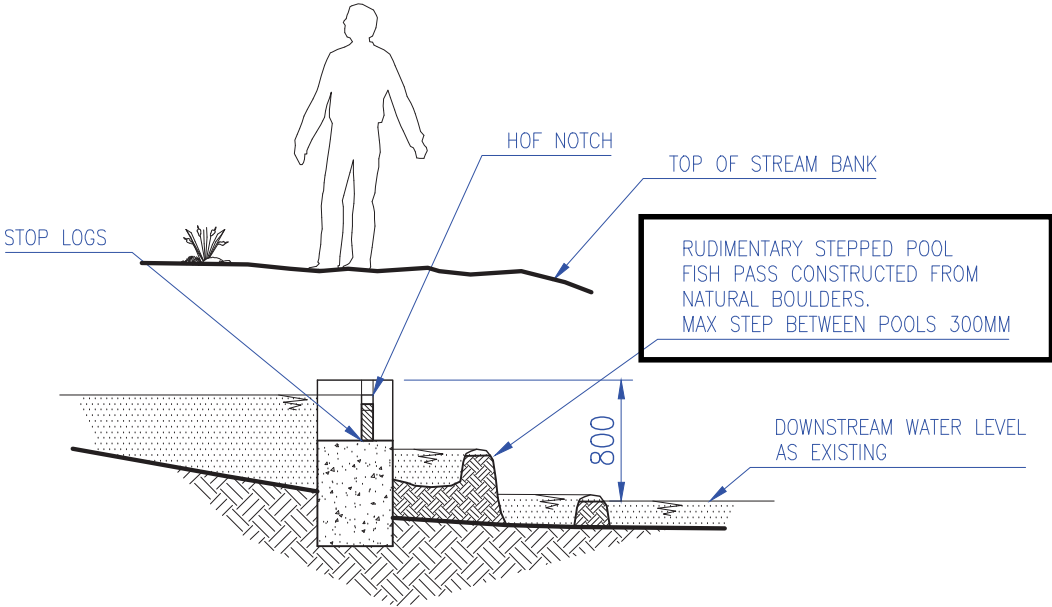
Level to be set at the same as the weir crest level to ensure minimum flow of Q99



SECTION A



SECTION B



EEL PASS
1. EEL PASS TO BE BRISTLE BRUSH TYPE SUBSTRATE
2. TYPICAL WIDTH – 200MM
3. BRISTLE LENGTH 70MM PROUD OF MAT
3. TYPICAL BRISTLE SPACING 5MM HOLES AT 25MM CENTRES WITH 12.5MM BETWEEN STAGGERED ROWS (FOR SMALL EELS). [AS PER E.A. EEL MANUAL].

FLOW SPLIT CALCULATION:
FLOW SPLIT YEAR ROUND IS TO BE 70% ABOVE Q95.
THE FLOW SPLIT NOTCH (0.429M WIDTH) IS SET AT THE SAME LEVEL AS THE OVERSHOT SCREEN (1.0M WIDTH) THEREFORE THE FLOW SPLIT WILL BE IN THE RATIO OF THE WIDTHS OF THE NOTCHES:

HYDRO FLOW TAKE = $1.0 / (1.0 + 0.429) = 70\%$

HOF CALCULATION:
HOF CALCULATED ACCORDING TO ISO1438 FOR THIN PLATE WEIR WITH WATER LEVEL AT COANDA CREST.
KINDSVATER–CARTER FORMULA USED WITH THE FOLLOWING VARIABLES:

Notch width, b	0.150	m
Notch depth, h	0.050	m
Width of approach, B	0.429	m
b/B	0.350	
Height of crest relative to floor, p	0.250	m
h/p	0.200	
(B-b)/2	0.140	m
Cd	0.591	
kb	0.003	m
kh	0.001	m
be	0.153	m
he	0.051	m
Flow	0.0031	m3/s

NOT FOR CONSTRUCTION

DO NOT SCALE – IF IN DOUBT ASK

												Client				Project				Drawing Title				Sheet 2 of 2		Scales 1:50 @ A3					
												AMANDA FORMAN, AMANDA@SNOWDONIAHYDRO.CO.UK				TYN LLWYN HYDROPOWER PROJECT				INTAKE GENERAL ARRANGEMENT				Status		Original Size					
												Contact												PRELIMINARY							
																								Project No./Drawing No.		Rev.					
																								TYL/INT01		A					
A FIRST ISSUE				NB 08/2015																											
Rev. Description				Drawn Date				Rev. Description				Drawn Date																			