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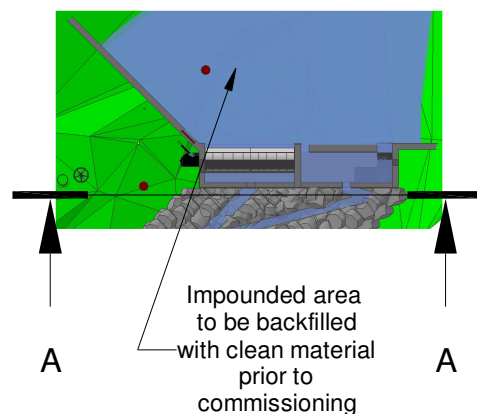
6

Plan View  
Scale 1 : 250

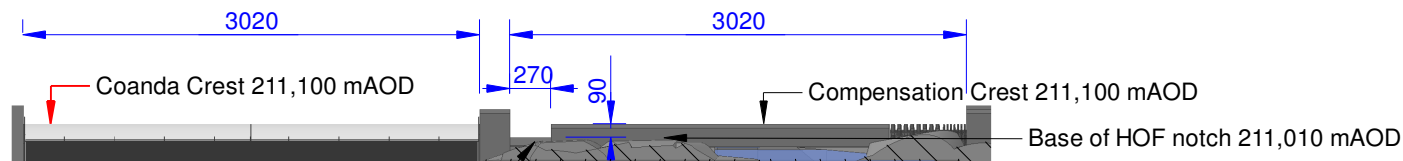
## Dylan Jones Intake Front Elevation, Levels and Take Calculations

Point	Level
Top Peg A	211,000
Top Peg B	212,660
Crest	211,100
Base of Screen	210,650
Reference X1	215,354
Reference X2	213,755

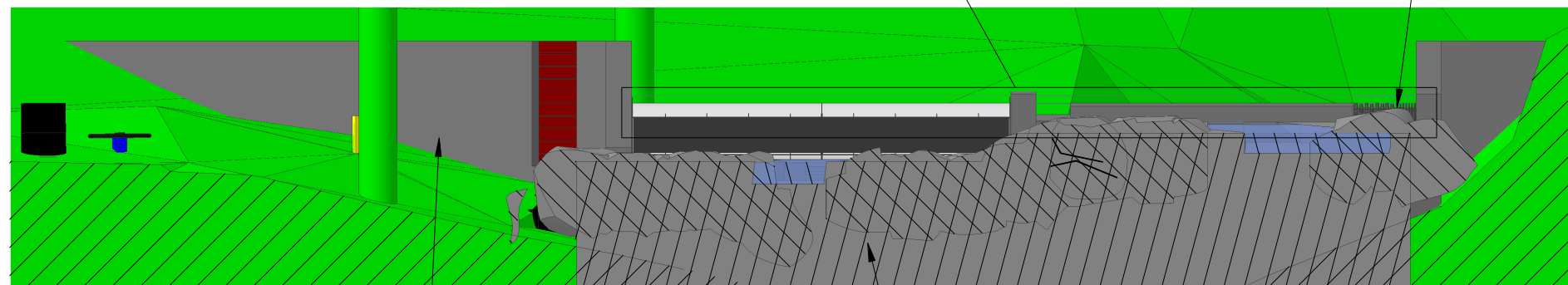
A



Detail A



Section A-A



Areas downstream of the wing walls to be infilled with boulders to reduce visual impact

Mortared Rocky Ramp downstream of fishpools

### Take

Total Crest Width : 3020mm + 3020mm = 6040mm  
Screen Width : 3020mm  
Take : 3020/6040 = 50%

### Note on Hands-off-flow

No water will be abstracted until the watercourse's flow exceeds 13.0l/s. Both the HoF notch (11.5l/s) and the eel pass notch (2.5l/s) have to be satisfied before water flows over the coanda's crest

### Hands-off-flow

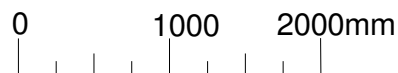
Calculation of flow over rectangular broad notch in stop log:

Discharge coefficient,  $C_d = 1.6$

Notch depth,  $h = 0.090m$

Notch width,  $w = 0.270m$

$$Q = C_d * w * h^{1.5} \\ = 1.6 * 0.270 * 0.090^{1.5} \\ = 0.01166 m^3 / sec \\ = 11.7 lps$$



All levels relative to Newlyn. All dimensions in mm.

D

D

Client : Dylan Jones  
Address : Ty Mawr, Mallwyd  
Machynlleth, SY20 9HS  
Drawn By : MJP

Date : 30/12/22  
Scale : 1 : 50 @ A4  
Drawing No : 22123001  
Version : 3

Revision Details  
v2 : Fish and eel passage  
and HoF notch revised  
v3 : Fish passage gradient  
reduced

Greenearth  
Hydro



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Company Registration Number 7417466  
MCS Hydro Transition Installer 123

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