

PRELIMINARY DRAWING FOR
CONSENTING PURPOSES - NOT
FOR CONSTRUCTION

Project:

Plas Farm

Client:

Richard Bowen

Drawing Title:

Intake

File Name:

PF-DWG-Intake-D-021224-ARC

Scale: 1:30 @ A3	Revision: D	Sheet: 1 OF 1
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Drawn by: ARC	Date: 02/12/2024
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Taken from OS Mastermap 1:1250
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NOTES:

LAND OWNERSHIP
All land for development is owned by the
applicant.

TOLERANCES
The final position may vary marginally as
site conditions dictate.

Revisions			
Rev	Description	Approved	Issued
A	Original	ARC	21/02/24
B	HOF updated	ARC	19/03/24
C	HOF notch width updated and illustration updated to show structure in centre of channel	ARC	22/05/24
D	Intake position update	ARC	02/12/24

NOTES:

The intake structure has been designed
to limit on site construction by assembling
all possible structures off site.

The Intake screen and tank will be
constructed as a single box fabrication.

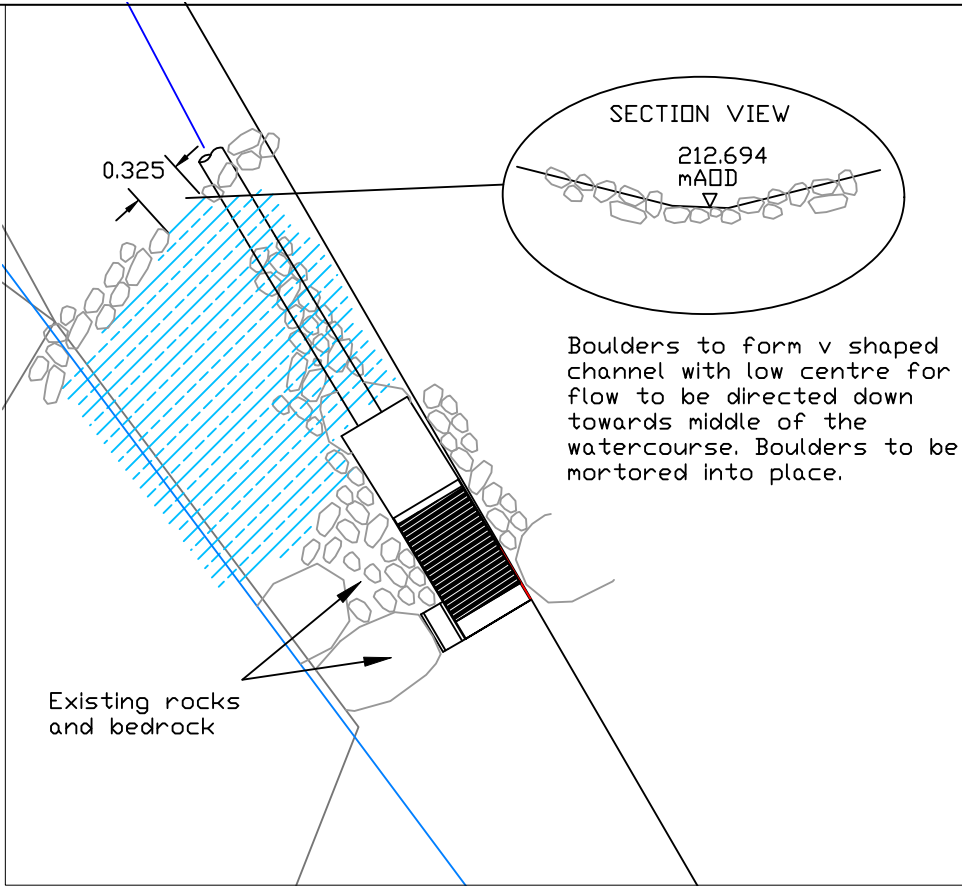
All dimensions in meters



HoF will be faced with
mortared stone to both
lower visual impact but
also direct the flow of
water into the plunge pool.
To be a gentle slope.

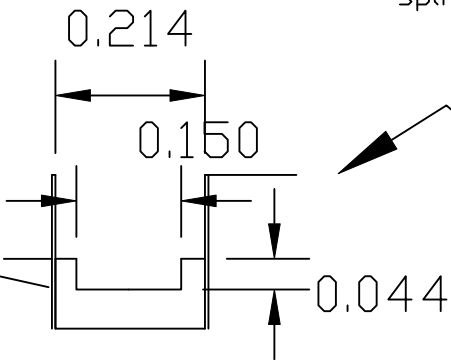
Stone and mortar cladding
will help reduce visual
impact and protect the
intake structure in high
flows.

Stone and mortar will be used to raise the
bed level to produce a foundation around
the intake structure.



Boulders to form v shaped
channel with low centre for
flow to be directed down
towards middle of the
watercourse. Boulders to be
mortared into place.

HoF will be constructed in concrete as part
of the wingwall. A open rectangular notch
will allow a flow of 2.3lps (Q95) to always
pass through the derogated reach. (150mm
wide by 44mm deep notch) 214mm wide flow
split channel



SECTION
VIEW OF
NOTCH

Notch to
include
chamfer
on
downstream
edge

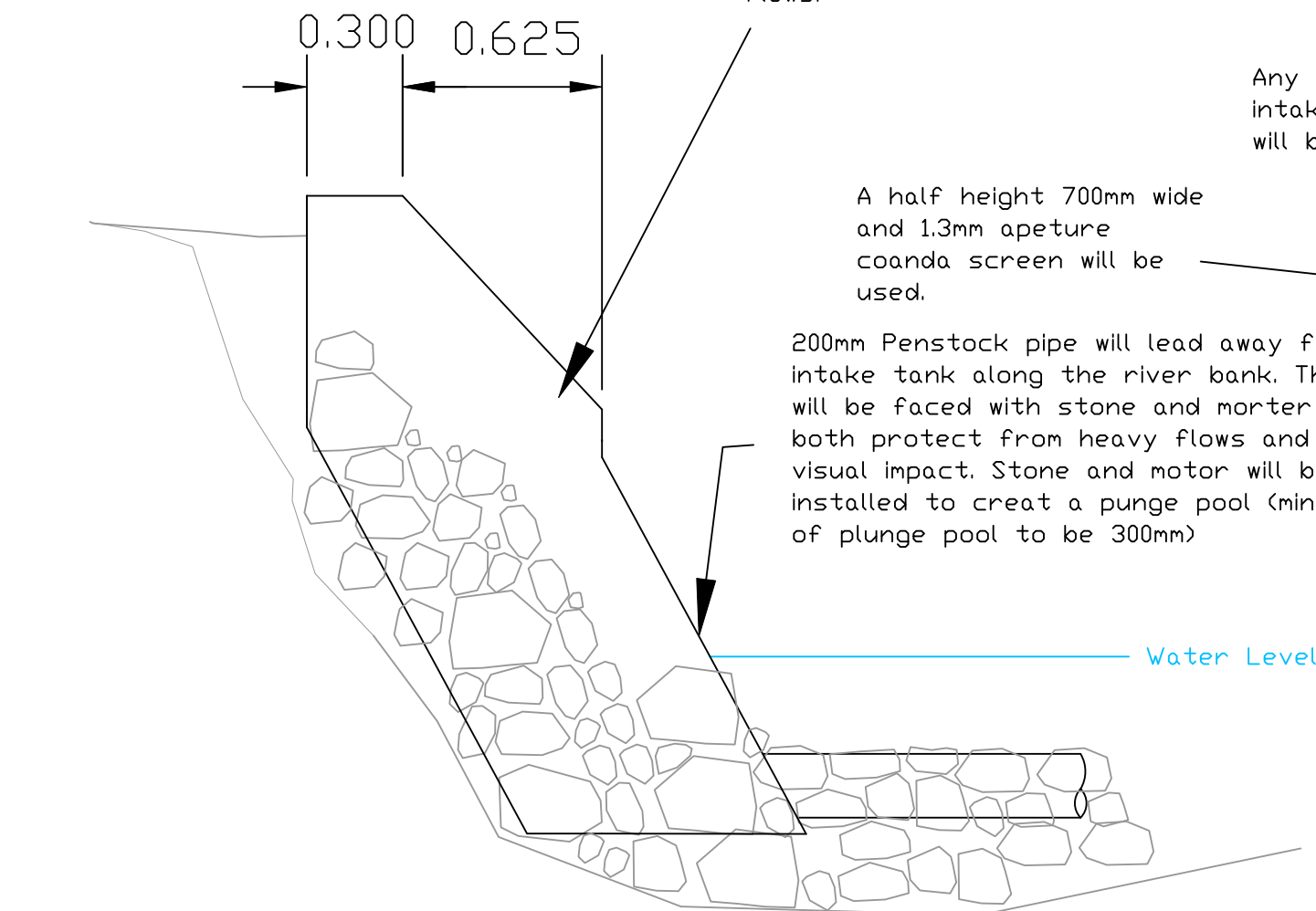
Any space between the between the
intake structure and the waterfall wall
will be back filled with washed stones

A half height 700mm wide
and 1.3mm aperture
coanda screen will be
used.

200mm Penstock pipe will lead away from the
intake tank along the river bank. The pipe
will be faced with stone and mortar to
both protect from heavy flows and lower
visual impact. Stone and mortar will be
installed to create a plunge pool (min depth
of plunge pool to be 300mm)

Intake structure is
both screen and
settling tank, a head
level sensor is housed
within the settling tank

Penstock pipe will lead away
from the intake tank along
the river bank. The pipe will
be faced with stone and
mortar to both protect
from heavy flows and lower
visual impact.



Section A-A