


Dynamic Rivers  
(Survey and Design) Ltd



Unit 30,  
Malthouse  
Business Centre,  
Regent Street,  
Llangollen  
Wrexham,  
Denbighshire,  
LL20 8HS.

REVISION	DATE
1	11/10

**LEGEND:**  
Features  
■ Rapids  
■ Widening  
■ Reprofile  
■ Bed Check Feature  
■ Tree Planting  
■ Redline Boundary  
■ Weir

**NOTES:**  
ALL LEVELS ARE GIVEN IN m A.O.D (METERS ABOVE ORDNANCE DATUM)  
  
PROPOSED LEVELS MAY VARY +/- 100 mm TO GENERATE BED AND FEATURE VARIATION  
  
CHAINAGE MEASUREMENTS ARE IN METERS  
  
ALL ARISING TO BE STOCKPILED FOR DISPOSAL OFF SITE OR LOCAL SPREADING OUTSIDE OF THE FLOODPLAIN.  
  
REFER TO FEATURE BOUNDARY COORDINATES "DR-2021-0074- Clywedog\_Coordinates" FOR EXACT INDIVIDUAL FEATURE SHAPES.

**PROJECT TITLE:**  
Clywedog Weirs - Felin Puleston

**PROJECT NUMBER:**  
DR-2021-0074

**SHEET TITLE:**  
OVERVIEW MAP

**AUTHORS:**  
Author:  
Checked:  
Approved: GH

**SCALE:**  
MAP  
SCALE AT  
A1

**SHEET:**  
1






The contractor should review the services search drawing prior to construction and for potential access routes as some may be crossed to deliver the works. The client and/or contractor should undertake another services search prior to the works.


Dynamic Rivers accept no liability of any kind for the accuracy, currency or completeness of the information provided on this plan. This plan is a compiled cartographical representation of information received from numerous mapping sources of varying scales, quality and resolutions. The source utility companies do not guarantee the correctness of the data provided.

Only use this plan in conjunction with the compiled responses which include further detail, legends, notes and warnings. It is critical that the location of any utility services and apparatus is confirmed on site prior to any excavation work.

Contractor to undertake C.A.T4/ Radio-detection scanning prior to excavation works



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**LEGEND:**  
Features  
■ Rapids  
■ Widening  
■ Reprofile  
■ Bed Check Feature  
■ Tree Planting  
■ Weir

**Utilities**  
— 1. ELECTRIC-SP ENERGY NETWORKS-hv  
- - - 1. ELECTRIC-SP ENERGY NETWORKS-lv  
— 2. WATER-CLEAN-SEVERN TRENT WATER-main  
— 4. GAS-WALES & WEST UTILITIES-mp  
— 3. WATER-WASTE-WELSH WATER-combined  
.... 5. OPENREACH-duct

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**PROJECT TITLE:**  
Clywedog Weirs - Felin Puleston

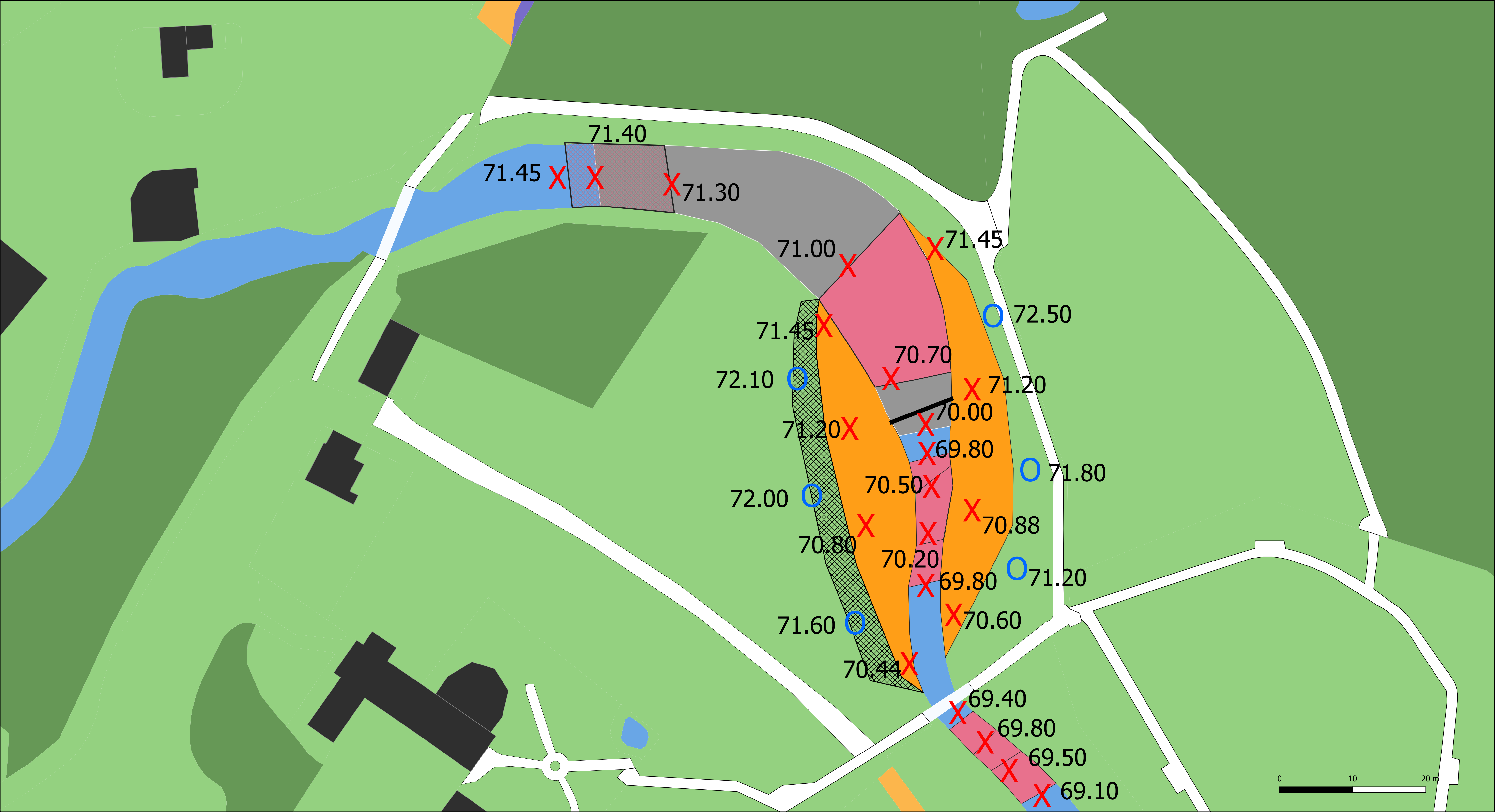
**PROJECT NUMBER:**  
DR-2021-0074

**SHEET TITLE:**  
OVERVIEW MAP - UTILITIES

**AUTHORS:**  
Author:  
Checked:  
Approved: GH

<b>SCALE:</b> MAP SCALE AT A1	<b>SHEET:</b> 2
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LEGEND:

Features

- Rapids
- Widening
- Reprofile
- Bed Check Feature
- Tree Planting
- Weir

- FINISH LEVELS
- FLOODPLAIN LEVEL

NOTES:

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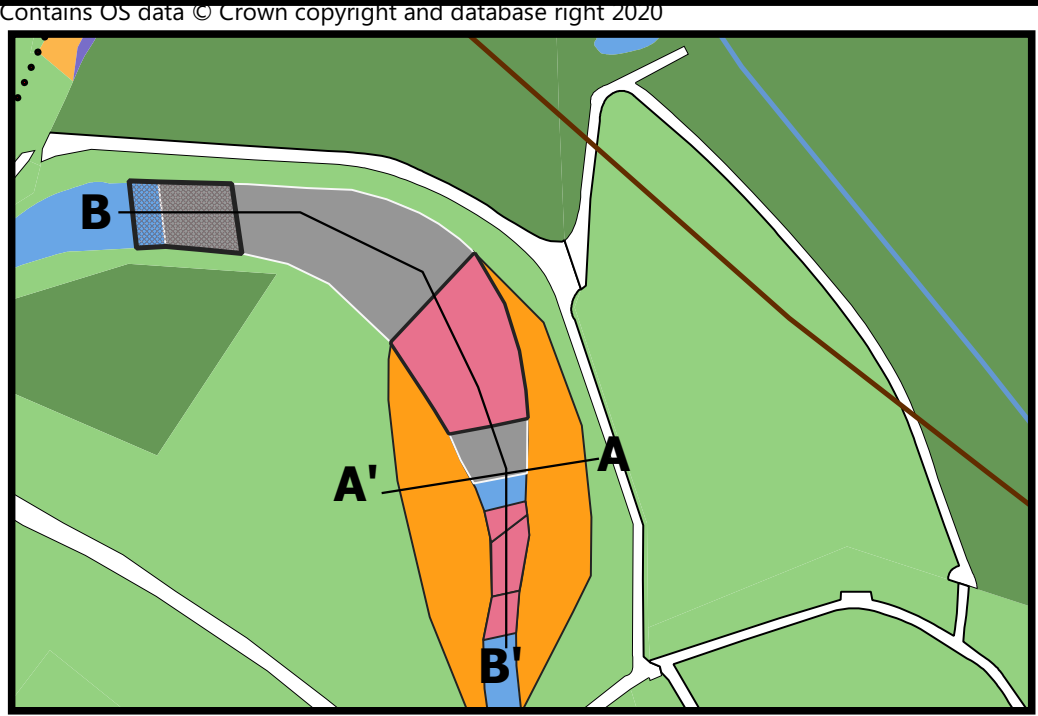
CHAINAGE MEASUREMENTS ARE IN METERS

ALL ARISING TO BE STOCKPILED FOR DISPOSAL OFF SITE OR LOCAL SPREADING OUTSIDE OF THE FLOODPLAIN

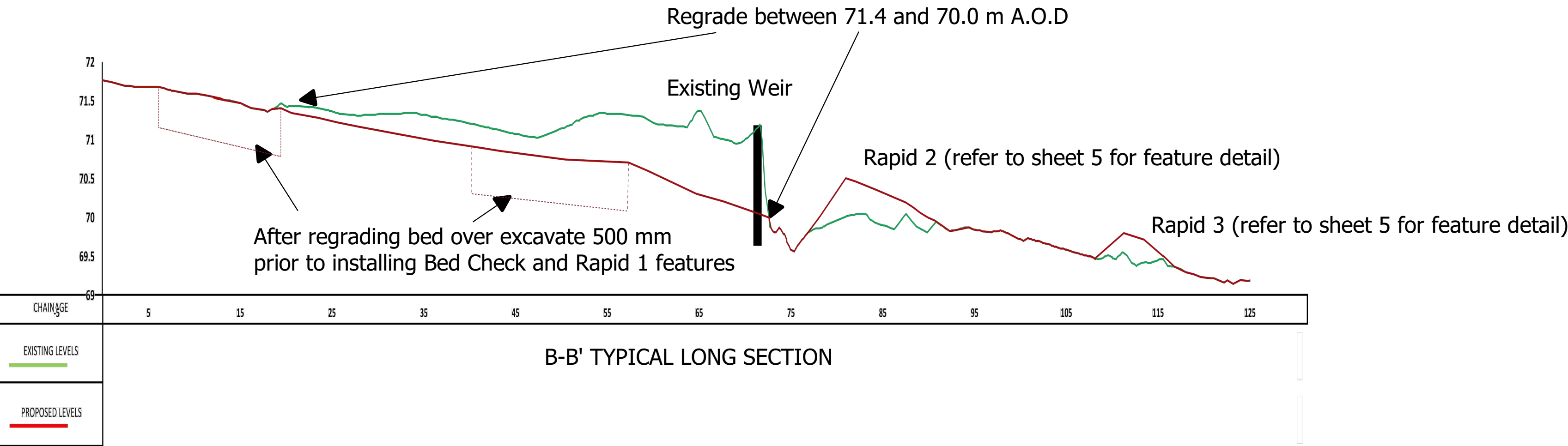
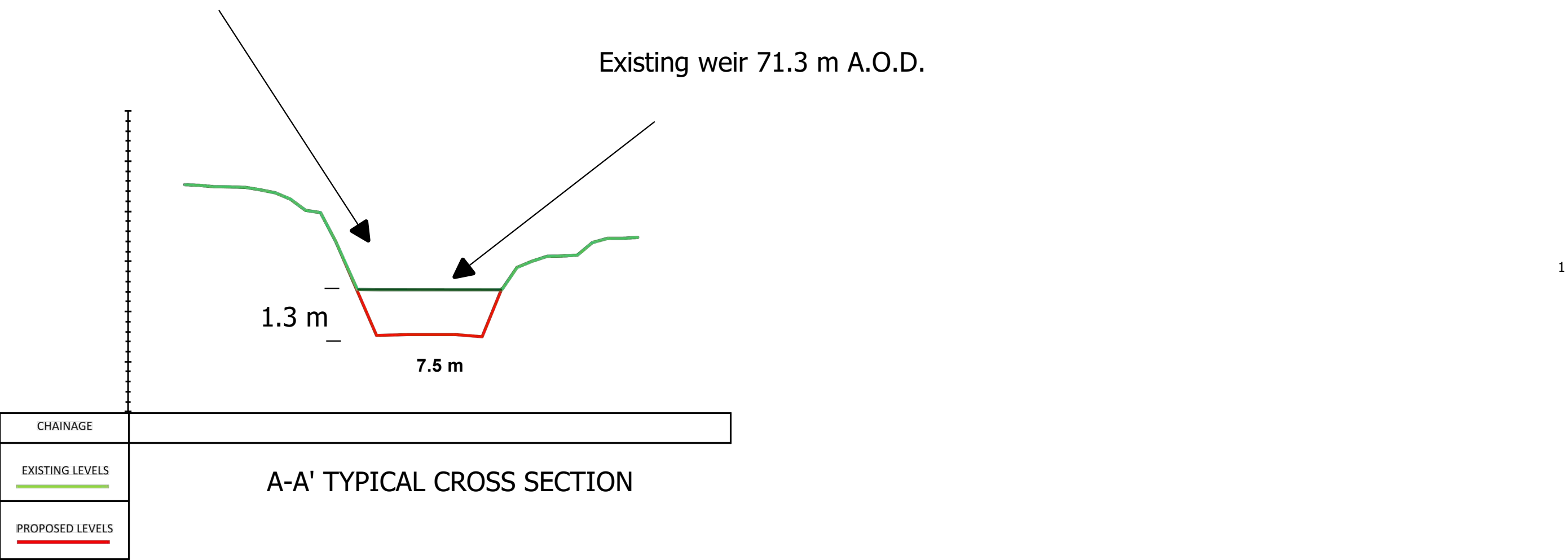
REFER TO FEATURE BOUNDARY COORDINATES "DR-2021-0074- Clywedog\_Coordinates" FOR EXACT INDIVIDUAL FEATURE SHAPES

PROJECT TITLE: Clywedog Weirs - Felin Puleston	
PROJECT NUMBER: DR-2021-0074	
SHEET TITLE: OVERVIEW MAP - LEVELS	
AUTHORS: Author: Checked: Approved: GH	
SCALE: MAP SCALE AT A1	SHEET: 3





Remove existing weir and regrade bed.  
Remove associated gabions along existing channel



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LEGEND:

NOTES:

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CHAINAGE MEASUREMENTS ARE IN METERS

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PROJECT TITLE:  
Clwedoq Weirs - Felin Puleston

PROJECT NUMBER:  
DR-2021-0074

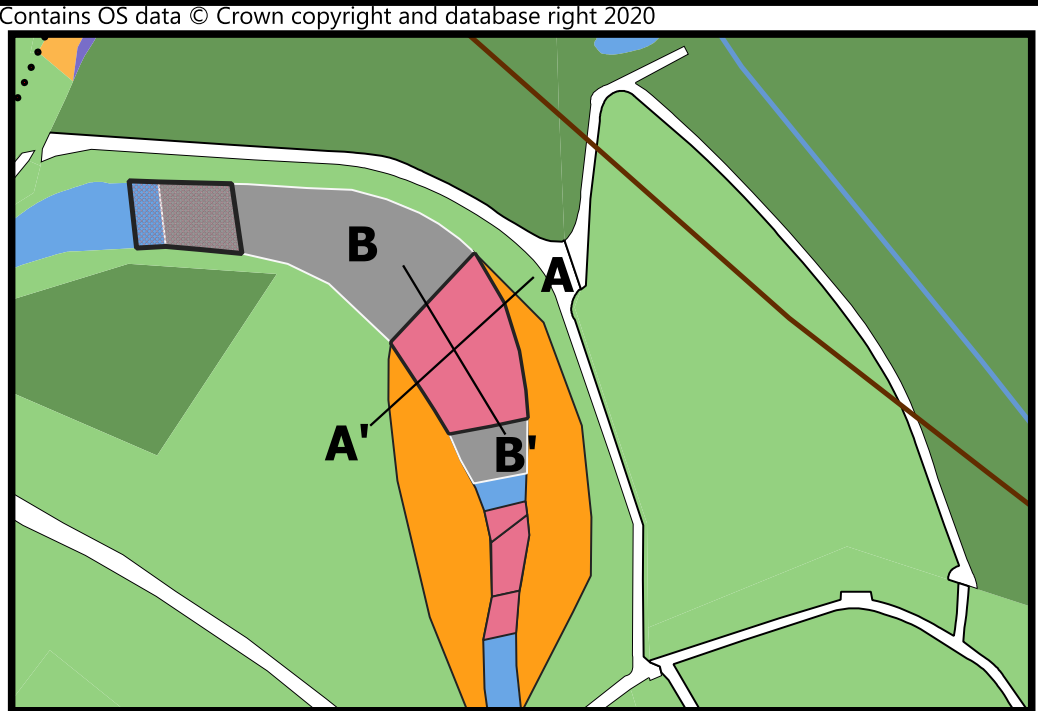
SHEET TITLE:  
REMOVE WEIR AND REGRADE BED

AUTHORS:  
Author: RW  
Checked: SB  
Approved: GH

SCALE:  
MAP  
SCALE AT  
A1

SHEET:  
4





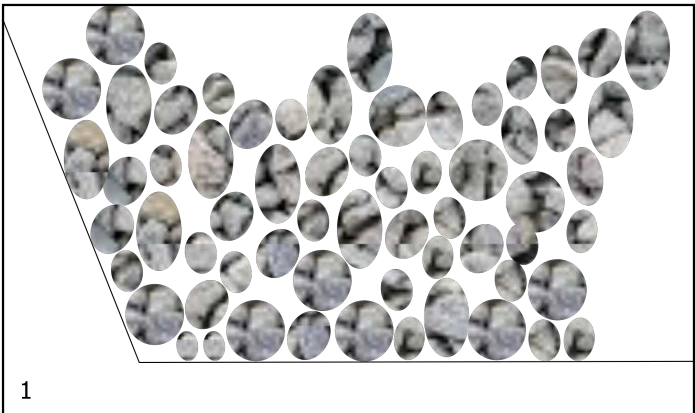
Feature Specification Table:

FEATURE NUMBER	UPSTREAM STARTING COORDINATE (OSGB)	LENGTH OF FEATURE (M)	AVERAGE CHANNEL WIDTH (m)	MAX UST BASELINE LEVEL (m AOD)	MAX DST BASELINE LEVEL (m AOD)	MAX UST CREST ELEVATION (m AOD)	MAX DST CREST ELEVATION (m AOD)
BED CHECK FEATURE	332519.831,349323.743	13.1	8.6	71.45	71.3 (AFTER BED REGRADE)	71.45	71.3
RAPID 1	332559.239,349318.854	18.7	8.6	71 (AFTER BED REGRADE)	70.7 (AFTER BED REGRADE)	71	70.7
RAPID 2	332569.436,349232.064	17.3	8.6	69.8	68.8	70.5	70.2
RAPID 3	332573.239,349255.940	14.4	8.6	69.4	69.1	69.8	69.5

FEATURE COORDINATES					
FEATURE NUMBER	UPSTREAM STARTING COORDINATE (NGR)	DOWNSTREAM STARTING COORDINATE (NGR)	RIGHT BANK COORDINATE (NGR)	LEFT BANK COORDINATE (NGR)	
BED CHECK FEATURE	SJ 32520 49330	SJ 32534 49330	SJ 32527 49326	SJ 32526 49334	
RAPID 1	SJ 32559 49319	SJ 32567 49302	SJ 32570 49315	SJ 32570 49314	
RAPID 2	SJ 32569 49292	SJ 32568 49274	SJ 32567 49283	SJ 32572 49285	
RAPID 3	SJ 32573 49256	SJ 32584 49246	SJ 32577 49243	SJ 32580 49253	



COMPACT AND ROUGHEN TO  
CREATE IRREGULAR SURFACE WITH  
MULTIPLE FLOW ROUTES

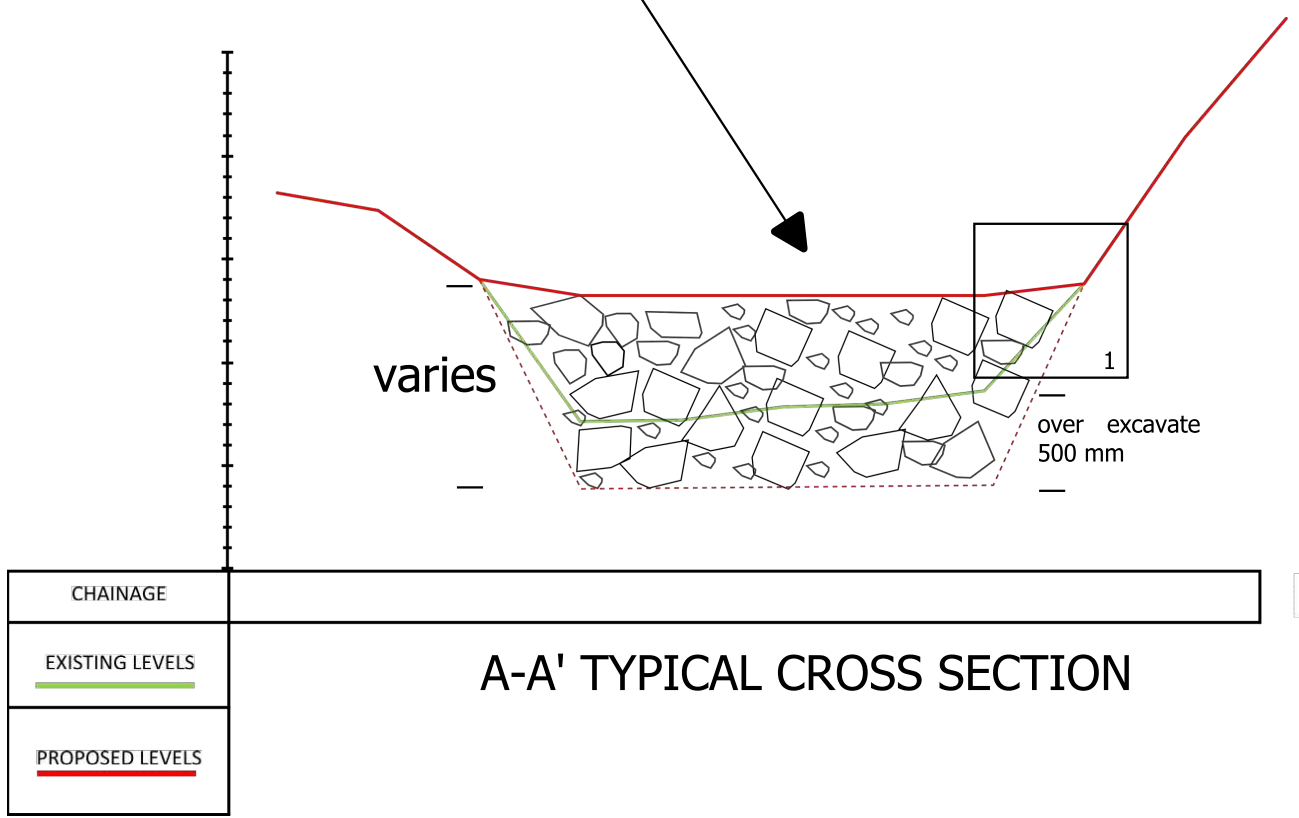


USE SPECIFIED MATERIAL MIX  
ENSURE ALL SIZES ARE WELL  
MIXED

For Bed Check Feature and Rapid 1, over excavate 500 mm and Infill to  
regraded bed level (see Sheet 4 for feature detail). For Rapids 2 & 3 infill from  
current bed to level specified in feature table to create rapid.

Refer to table for feature number and length

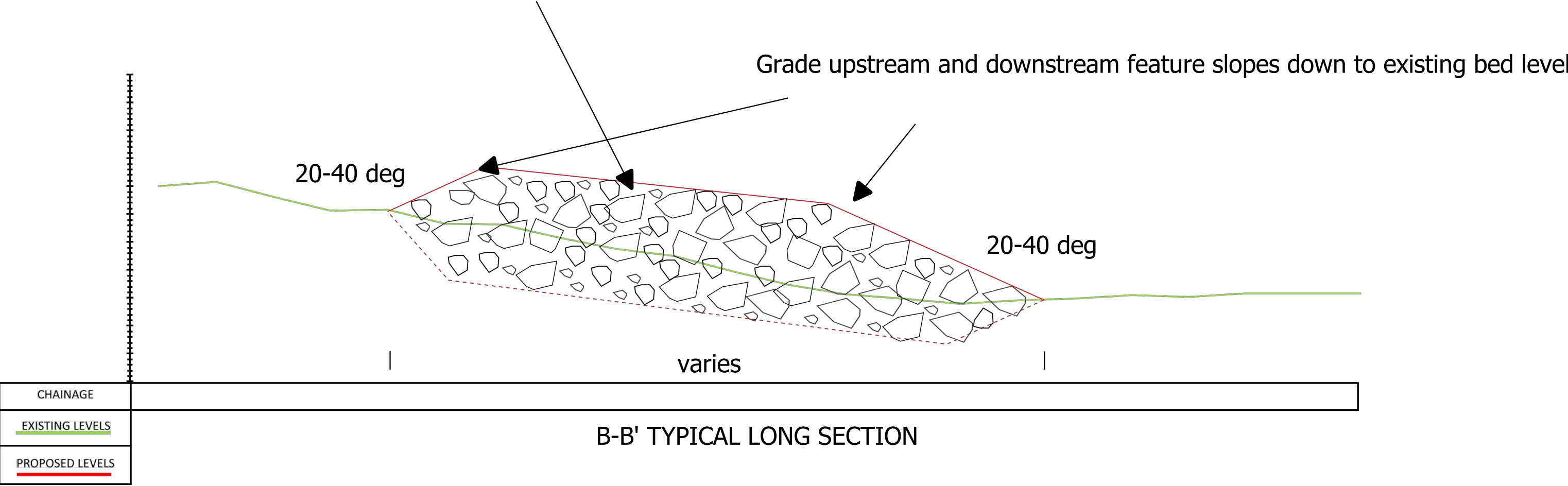
Refer to legend for specified rapid mix



For Bed Check Feature and Rapid 1, over excavate 500 mm and Infill to  
regraded bed level (see Sheet 4 for feature detail). For Rapids 2 & 3 infill from  
current bed to level specified in feature table to create rapid.

Refer to table for feature number and length

Refer to legend for specified rapid mix



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LEGEND:



RAPID MIX:  
50% 200-300 mm  
25% 100-200 mm  
25% <100 mm



BED CHECK FEATURE MIX:  
30% 300-500 mm  
30% 200-300 mm  
30% 100-200 mm  
10% <100 mm

NOTES:

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BED AND FEATURE VARIATION

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REFER TO FEATURE BOUNDARY COORDINATES  
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INDIVIDUAL FEATURE SHAPES

PROJECT TITLE:  
Clywedog Weirs - Felin Puleston

PROJECT NUMBER:  
DR-2021-0074

SHEET TITLE:  
RAPID AND BED CHECK FEATURE

AUTHORS:

Author:  
Checked:  
Approved: GH

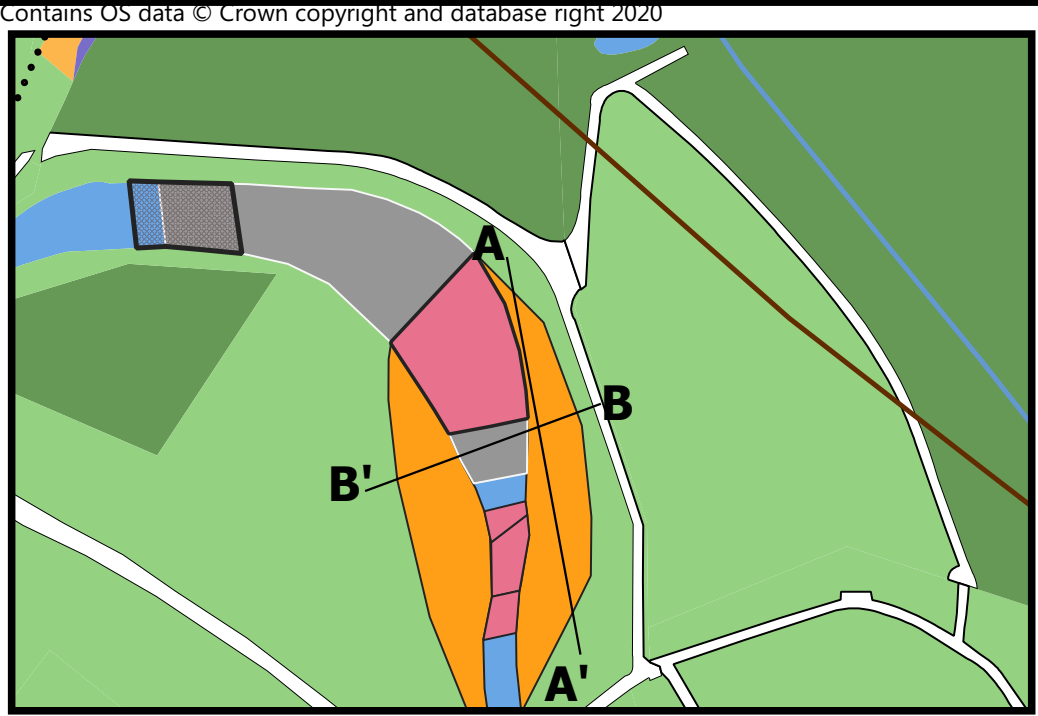
SCALE:

MAP  
SCALE AT  
A1

SHEET:

5



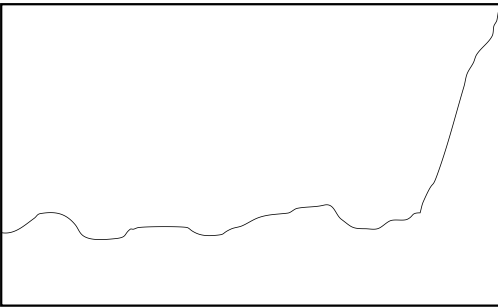


Feature Specification Table:

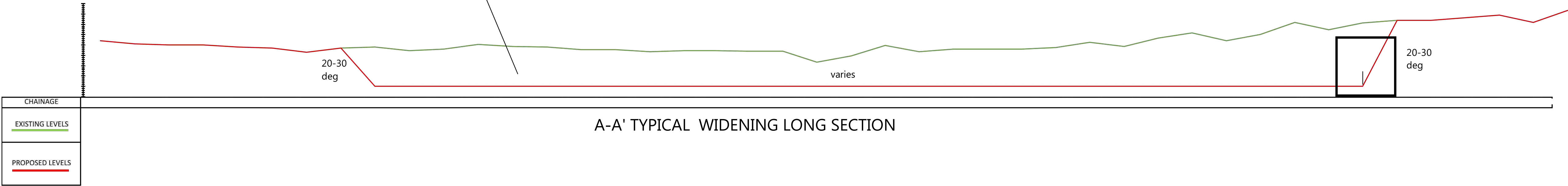
FEATURE NUMBER	UPSTREAM STARTING COORDINATE (OSGB)	LENGTH OF FEATURE (M)	MAX WIDTH OF FEATURE (M)	MAX UST BASELINE LEVEL (m AOD)	MAX DST BASELINE LEVEL (m AOD)	MAX UST CUT ELEVATION (m AOD)	MAX DST CUT ELEVATION (m AOD)
1	332565.634,349324.730	62	10.5	72.3	70.9	71.45	70.6
2	332553.881,349312.286	55	9.8	72	71	71.45	70.44



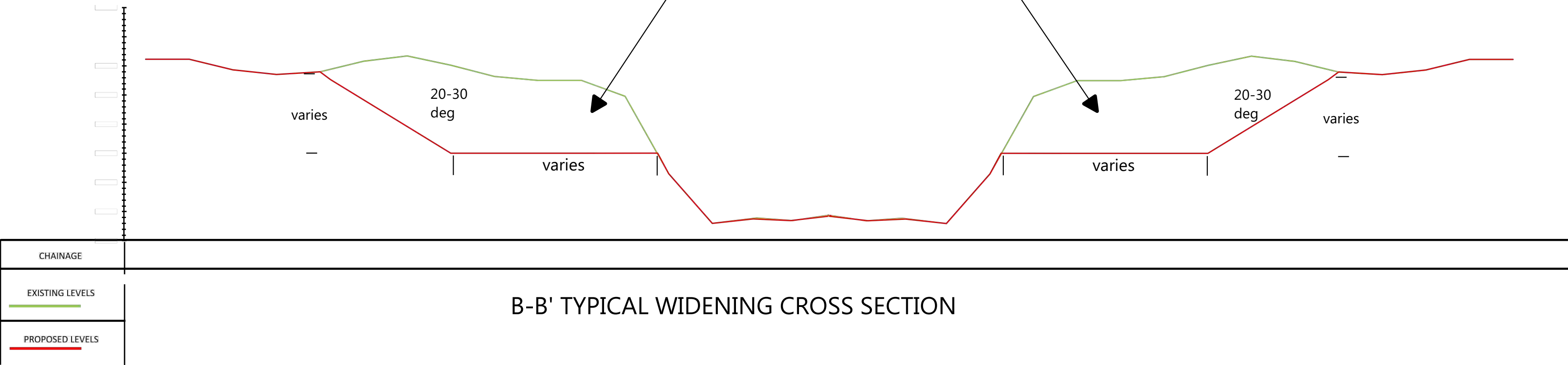
VARY FINISHED HEIGHT +- 100 mm TO CREATE LOCAL VARIATION AND LEAVE ROUGH SURFACE



EXCAVATE TO LEVEL IN FEATURE SPECIFICATION TABLE TO CREATE WIDENING



EXCAVATE TO LEVEL IN FEATURE SPECIFICATION TABLE TO CREATE WIDENING



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PROJECT TITLE:

Clywedog Weirs - Felin Puleston

PROJECT NUMBER:

DR-2021-0074

SHEET TITLE:

RAPID AND BED CHECK FEATURE

AUTHORS:

Author: RW

Checked: SB

Approved: GH

SCALE:

MAP  
SCALE AT  
A1

SHEET:

6