



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

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: Clweddog Weirs - Felin Puleston	
PROJECT NUMBER: DR-2021-0074	
SHEET TITLE: OVERVIEW MAP	
AUTHORS: Author: RW Checked: SB 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

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

NOTES:

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- CHAINAGE MEASUREMENTS ARE IN METERS
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PROJECT TITLE:

Clwvedog Weirs - Felin Puleston

PROJECT NUMBER:

DR-2021-0074

SHEET TITLE:

OVERVIEW MAP - UTILITIES

AUTHORS:

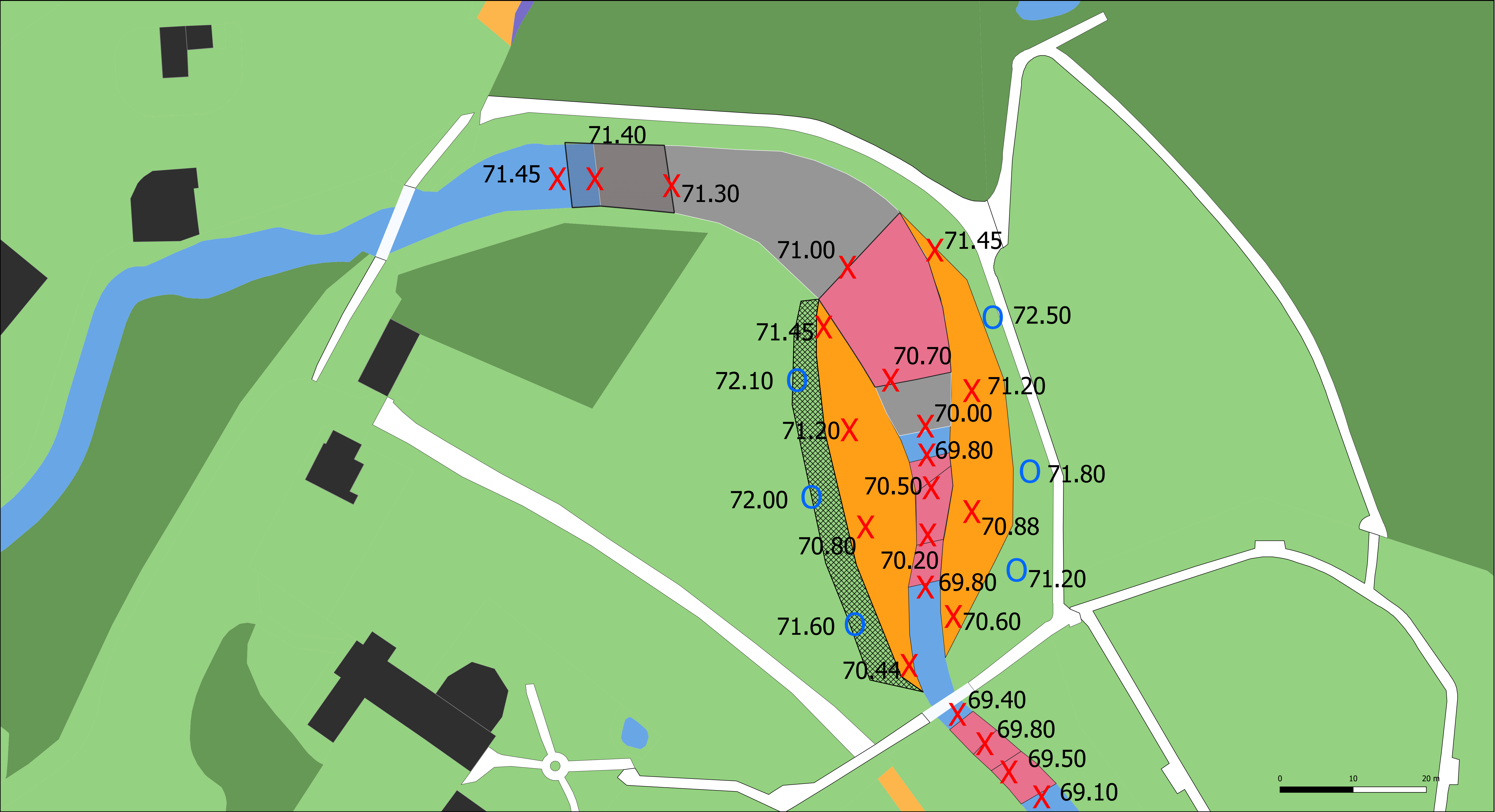
Author: RW
Checked: SB
Approved: GH

SCALE:

MAP
SCALE AT
A1

SHEET:

2



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LEGEND:

Features

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

- FINISH LEVELS
- FLOODPLAIN LEVEL

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PROJECT TITLE:

Clweddog Weirs - Felin Puleston

PROJECT NUMBER:

DR-2021-0074

SHEET TITLE:

OVERVIEW MAP - LEVELS

AUTHORS:

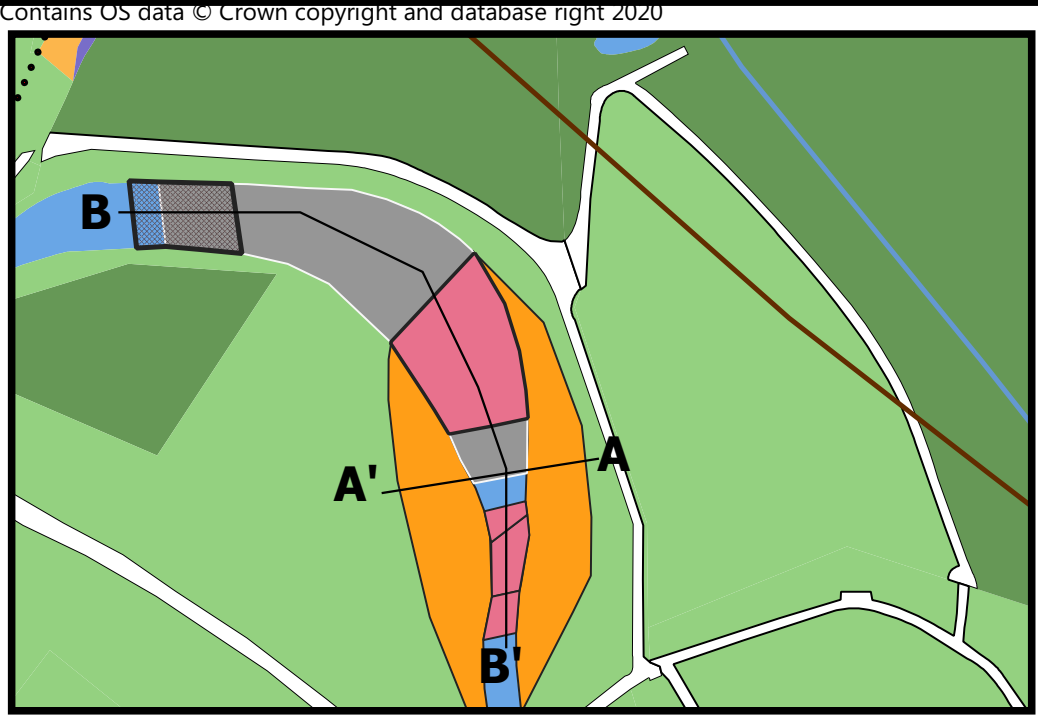
Author: RW
Checked: SB
Approved: GH

SCALE:

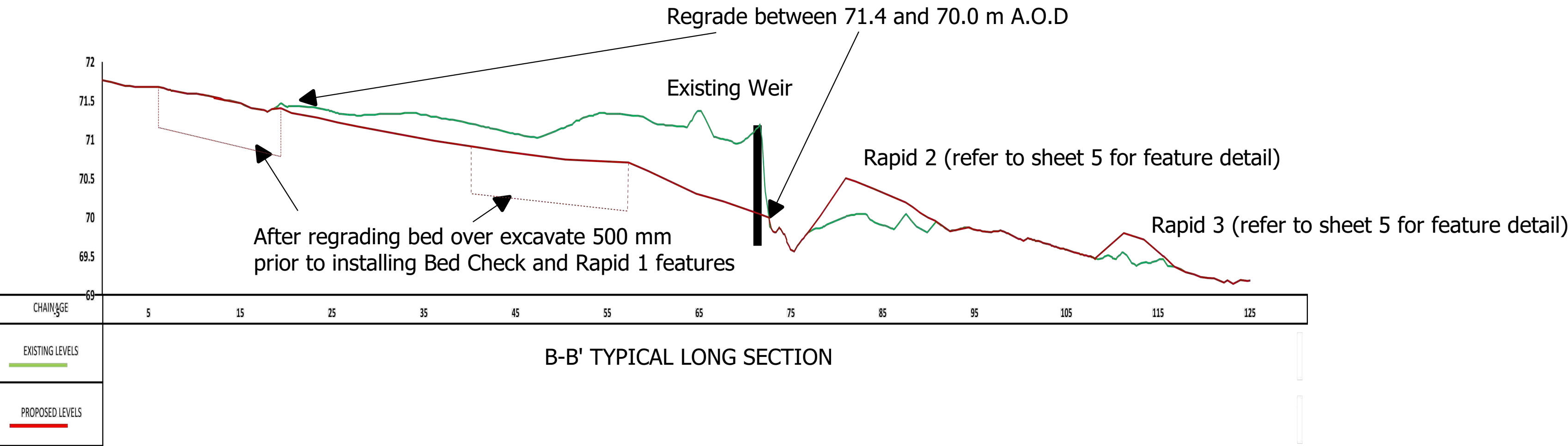
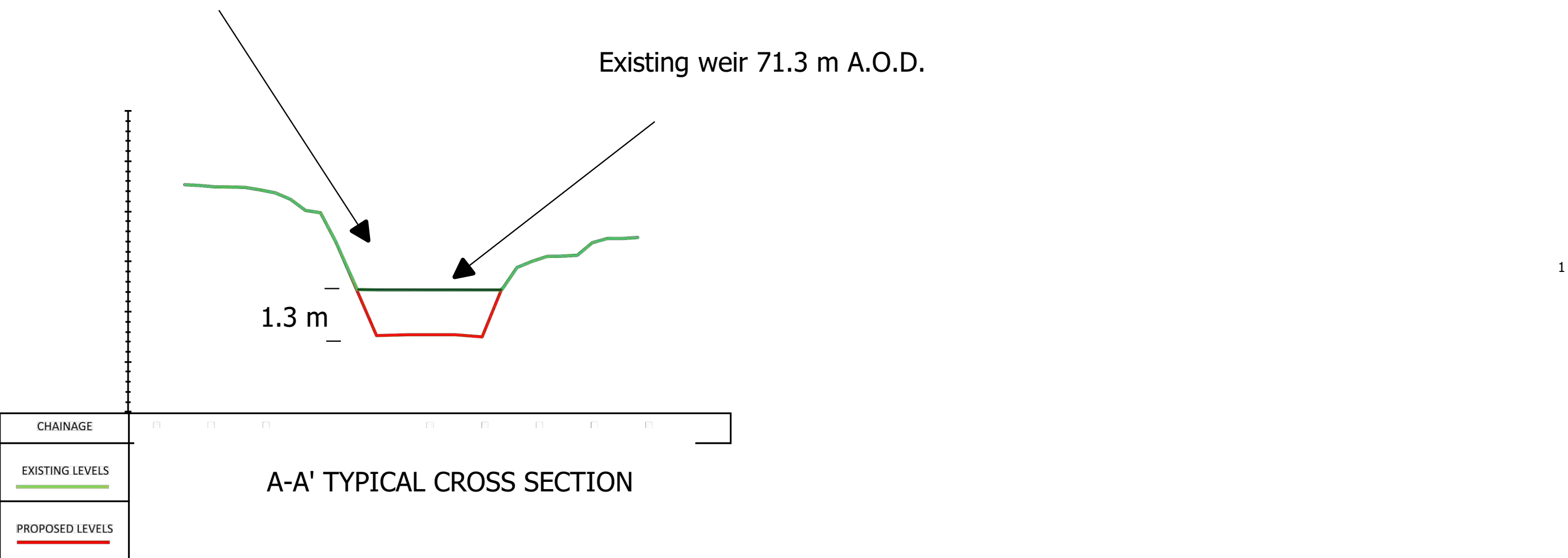
MAP
SCALE AT
A1

SHEET:

3



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



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PROJECT TITLE:
Clwedoq Weirs - Felin Puleston

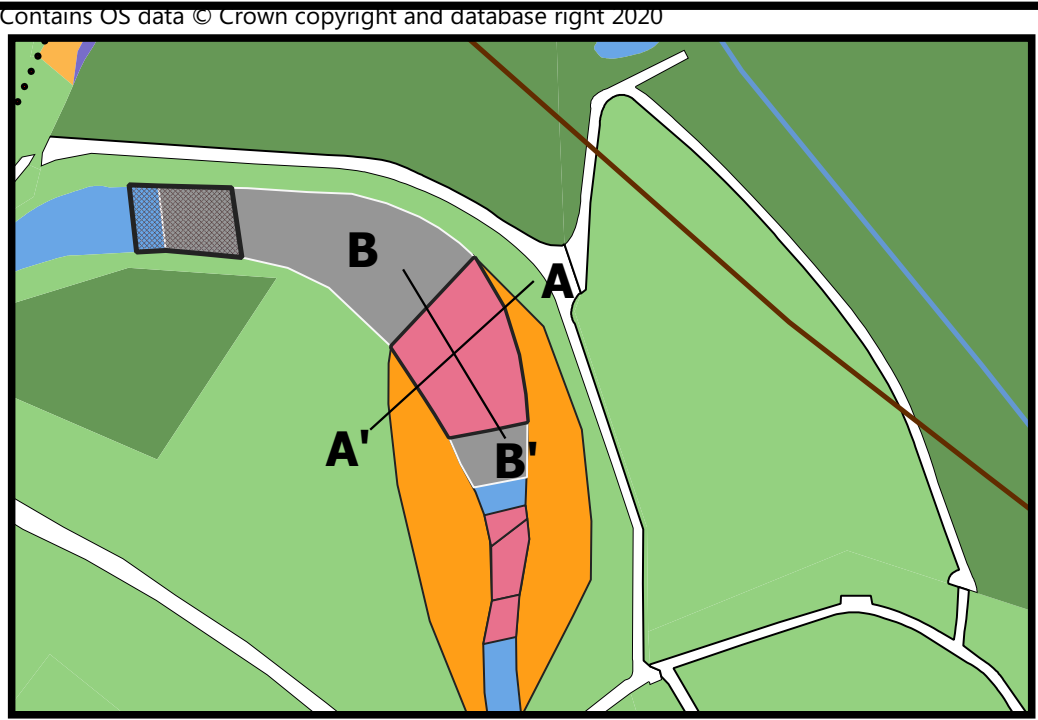
PROJECT NUMBER:
DR-2021-0074

SHEET TITLE:
REMOVE WEIR AND REGRADE BED

AUTHORS:
Author: RW
Checked: SB
Approved: GH

SCALE:
MAP
SCALE AT
A1

SHEET:
4



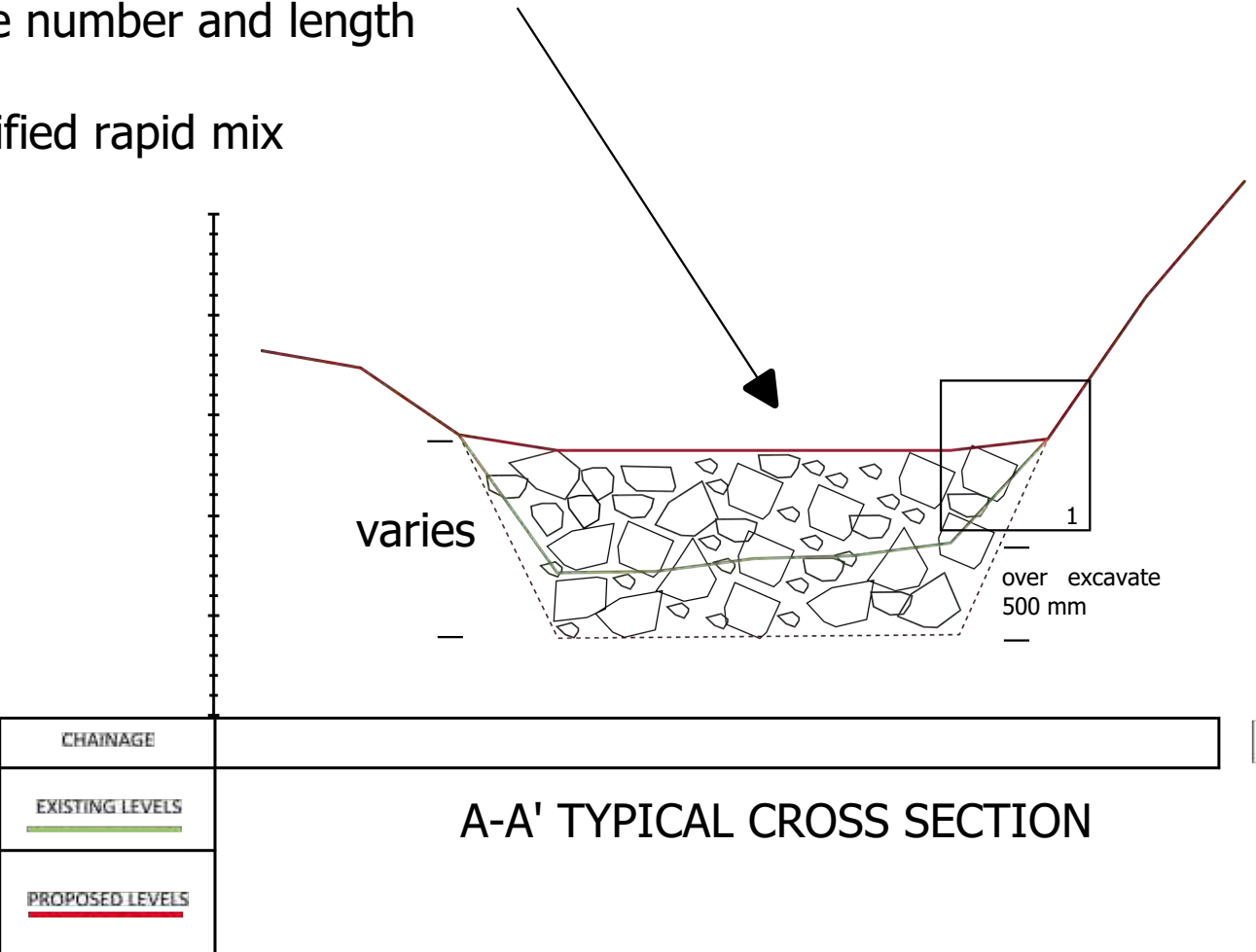
Feature Specification Table:

FEATURE NUMBER	REAM STARTING COORDINATE (OSGB)	LENGTH OF FEATURE	MAX WIDTH OF FEATURE (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	332519.831,349329.743	13.1	ACROSS FULL CHANNEL WIDTH	71.45	71.3 (AFTER BED REGRADE)	71.45	71.3
RAPID 1	332559.239,349318.854	18.7	ACROSS FULL CHANNEL WIDTH	(AFTER BED REGRADE)	(AFTER BED REGRADE)	71	70.7
RAPID 2	332569.436,349292.064	17.3	ACROSS FULL CHANNEL WIDTH	69.8	69.8	70.5	70.2
RAPID 3	332573.239,349295.340	14.4	ACROSS FULL CHANNEL WIDTH	69.4	69.1	69.8	69.5

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

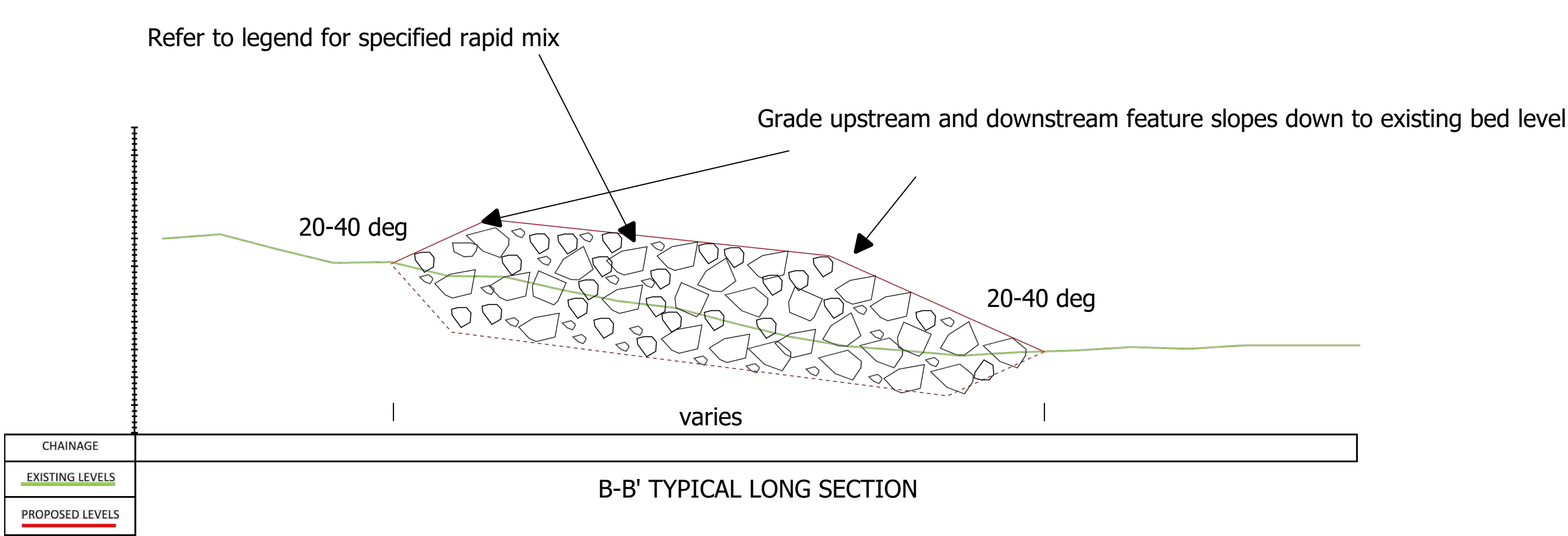
Refer to legend for specified rapid mix



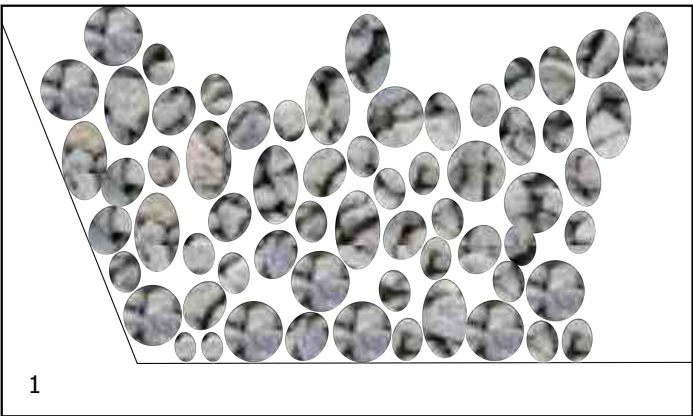
For Bed Check Feature and Rapid 1, over excavate 500 mm and Infill to regraded bed level (see Sheet 4 for feature detail). For Rapids 2 & 3 infill from current bed to level specified in feature table to create rapid.

Refer to table for feature number and length

Refer to legend for specified rapid mix



COMPACT AND ROUGHEN TO
CREATE IRREGULAR SURFACE WITH
MULTIPLE FLOW ROUTES



USE SPECIFIED MATERIAL MIX
ENSURE ALL SIZES ARE WELL
MIXED



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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

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BED AND FEATURE VARIATION

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"DR-2021-0074- Clywedog_Coordinates" FOR EXACT
INDIVIDUAL FEATURE SHAPES

PROJECT TITLE:

Clywedog Weirs - Felin Puleston

PROJECT NUMBER:

DR-2021-0074

SHEET TITLE:

RAPID AND BED CHECK FEATURE

AUTHORS:

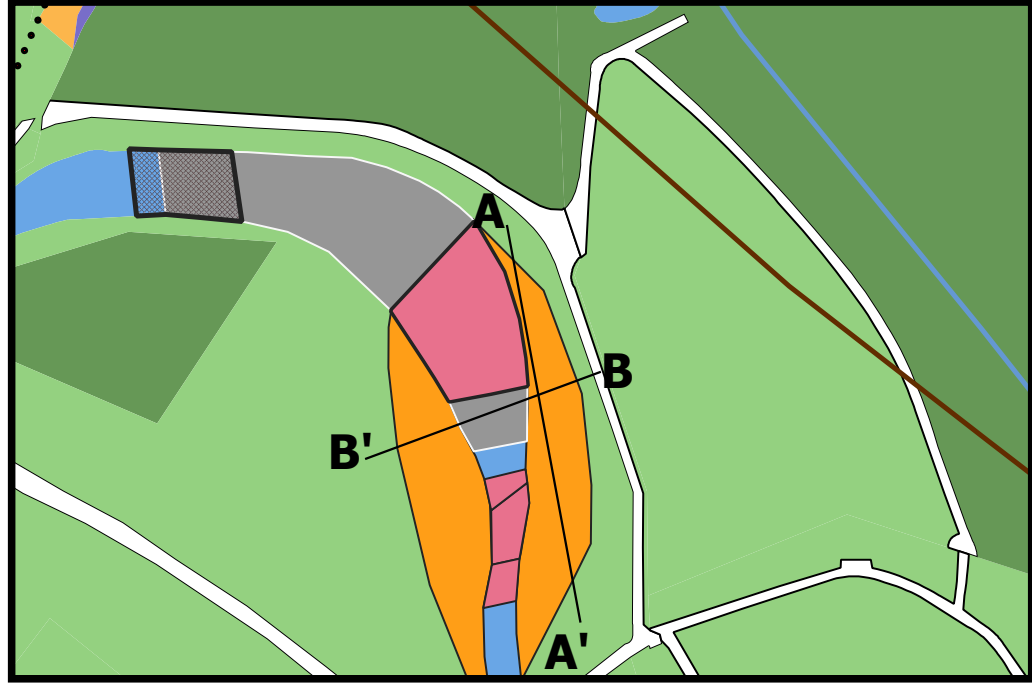
Author: RW
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Approved: GH

SCALE:

MAP
SCALE AT
A1

SHEET:

5

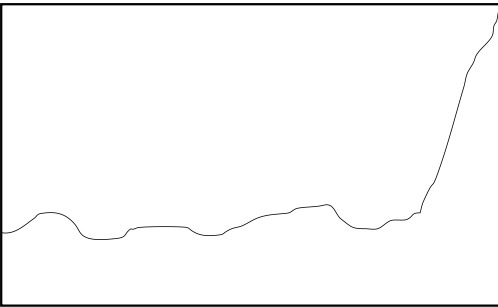


Feature Specification Table:

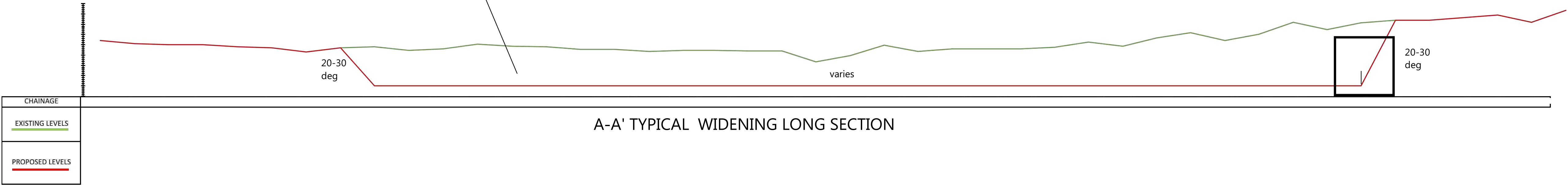
FEATURE NUMBER	UPSTREAM STARTING COORDINATE (OSGB)	LENGTH OF FEATURE (M)	MAX WIDTH OF FEATURE (M)	MAX UST BASELINE LEVEL (m AOD)	MAX DST BASELINE LEVEL (m AOD)	MAX UST CUT ELEVATION (m AOD)	MAX DST CUT ELEVATION (m AOD)
1	332565.634,349324.730	62	10.5	72.3	70.9	71.45	70.6
2	332553.881,349312.286	55	9.8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



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

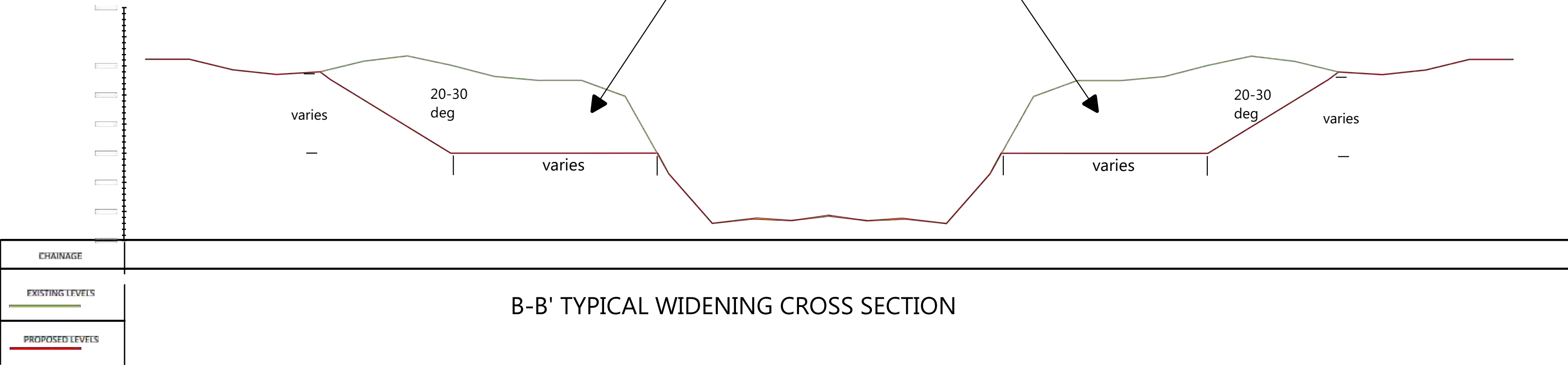


EXCAVATE TO LEVEL IN FEATURE SPECIFICATION TABLE TO CREATE WIDENING



A-A' TYPICAL WIDENING LONG SECTION

EXCAVATE TO LEVEL IN FEATURE SPECIFICATION TABLE TO CREATE WIDENING



B-B' TYPICAL WIDENING CROSS SECTION



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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