



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



Dynamic Rivers
(Survey and Design) Ltd



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

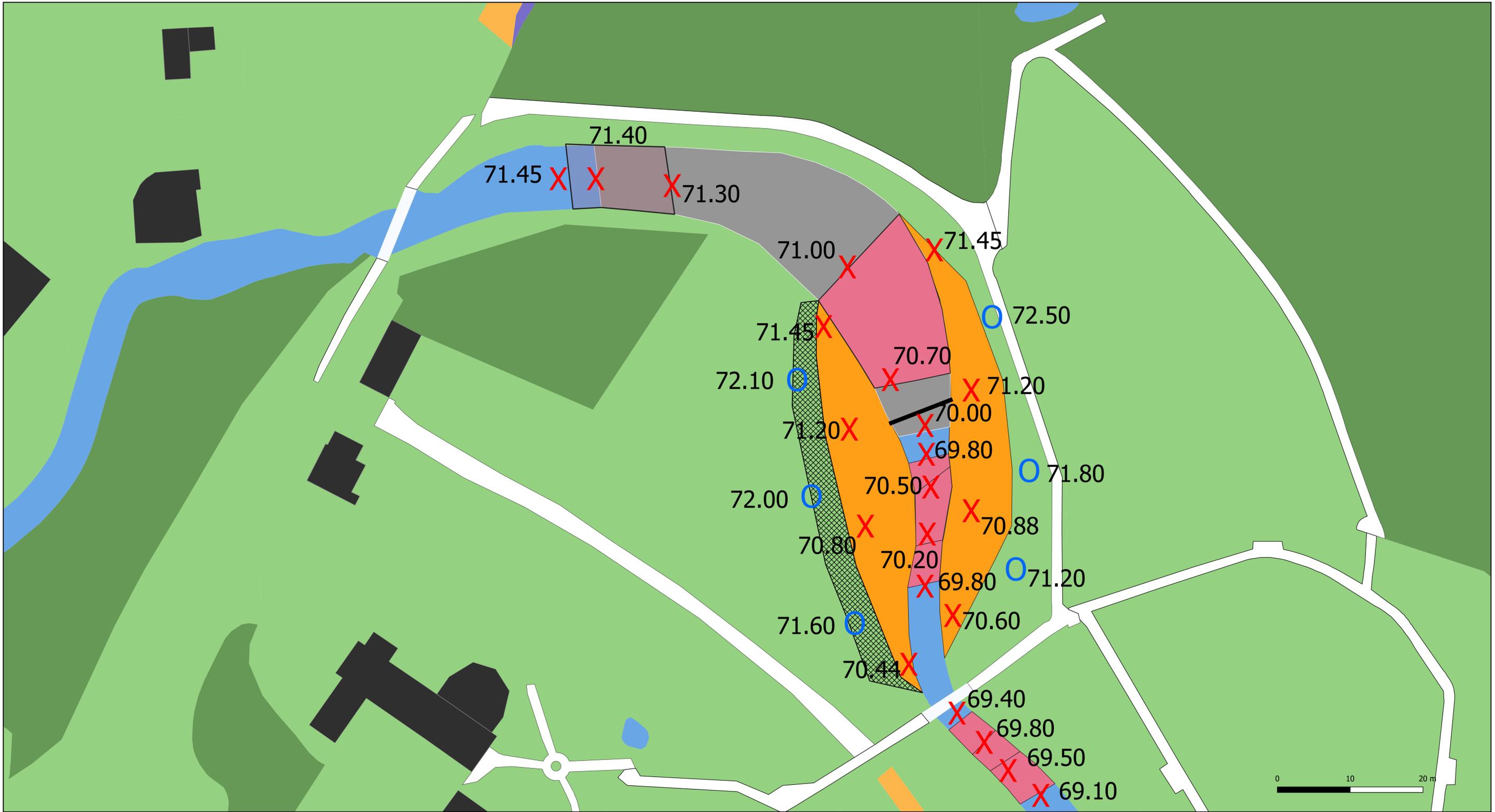
REVISION	DATE
1	11/10

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

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 - UTILITIES	
AUTHORS: Author: Checked: Approved: GH	
SCALE: MAP SCALE AT A1	SHEET: 2



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
 Weir

X FINISH LEVELS
○ FLOODPLAIN LEVEL

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 - LEVELS

AUTHORS:

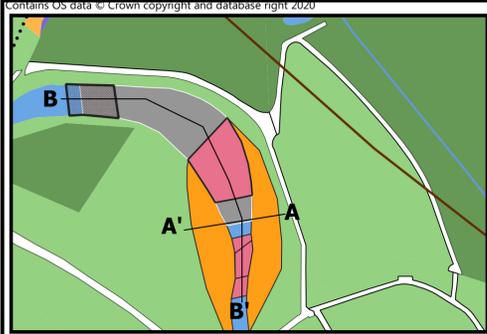
Author:
Checked:
Approved: GH

SCALE:

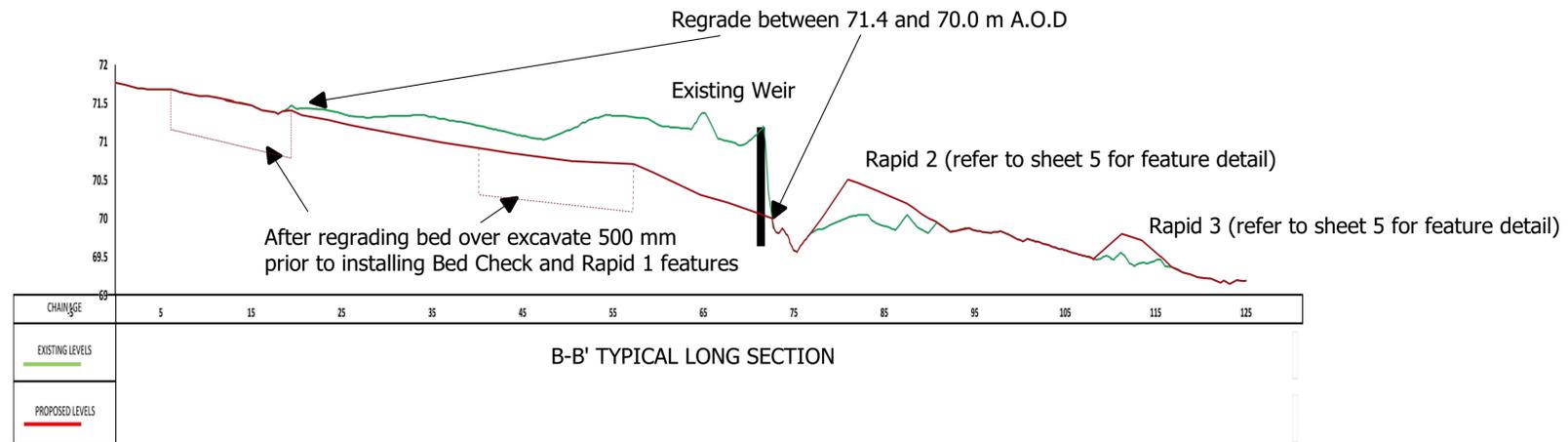
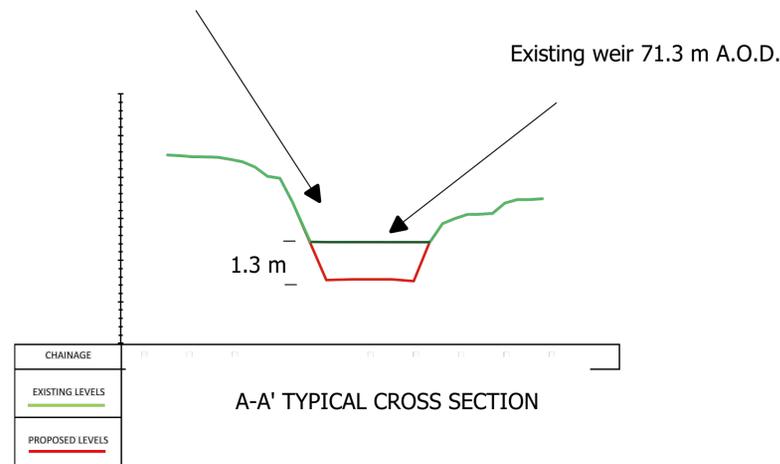
MAP SCALE AT A1

SHEET:

3



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



Dynamic Rivers
(Survey and Design) Ltd



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

REVISION	DATE
1	11/10

LEGEND:

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:
Clwedoog Weirs - Felin Puleston

PROJECT NUMBER:
DR-2021-0074

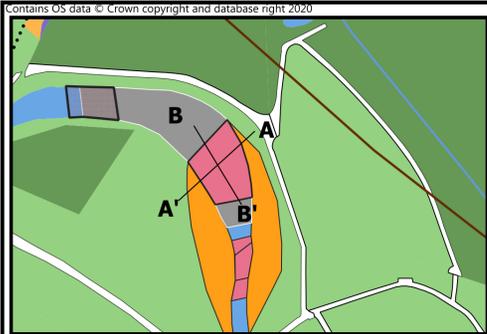
SHEET TITLE:
REMOVE WEIR AND REGRADE BED

AUTHORS:

Author: RW
Checked: SB
Approved: GH

SCALE:
MAP
SCALE AT
A1

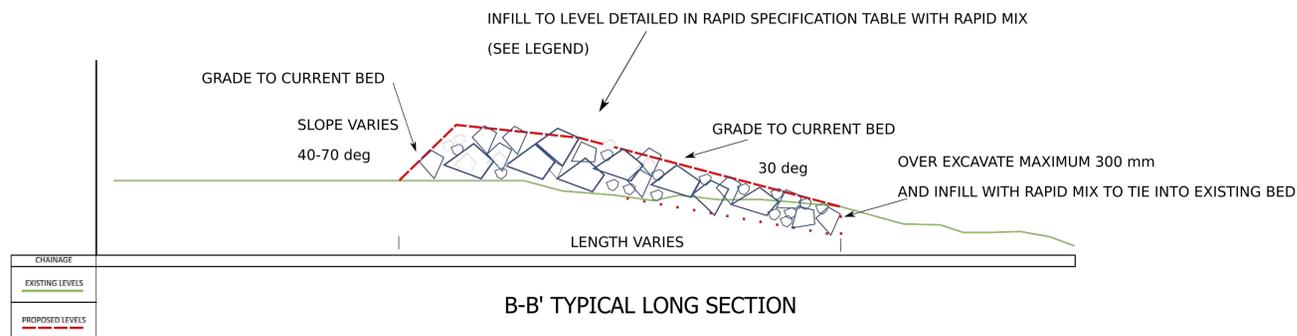
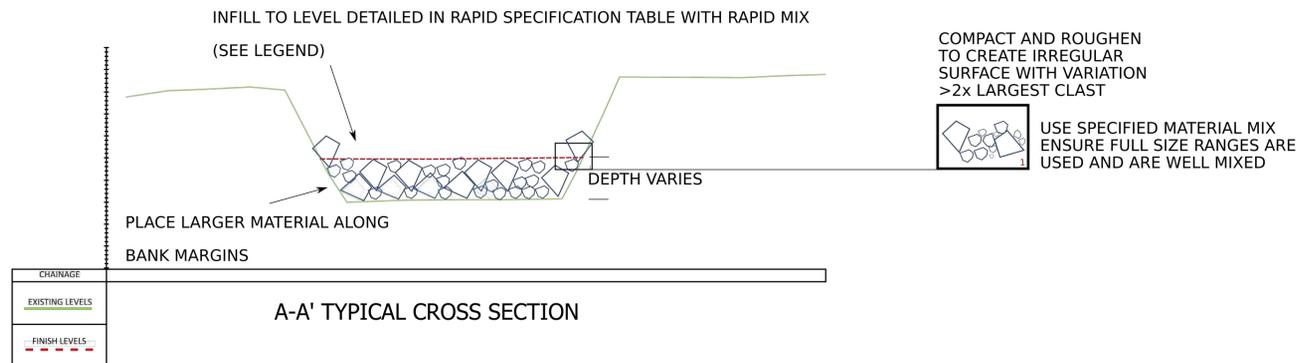
SHEET:
4



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	332519.831,349329.743	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	332569.436,349292.064	17.3	8.6	69.8	69.8	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



THE WELSH DEE TRUST
 Unit 30, Malthouse Business Centre, Regent Street, Llangollen Wrexham, Denbighshire, LL20 8HS.
 YMDDIRIEDOLAETH DYFRDWY CYMRU

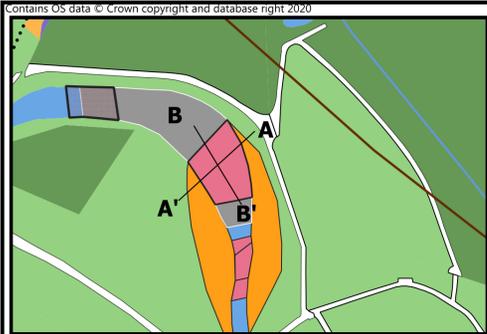
REVISION	DATE
1	11/10

LEGEND:

	RAPID MIX: 30% 300-500 mm 20% 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:
 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.

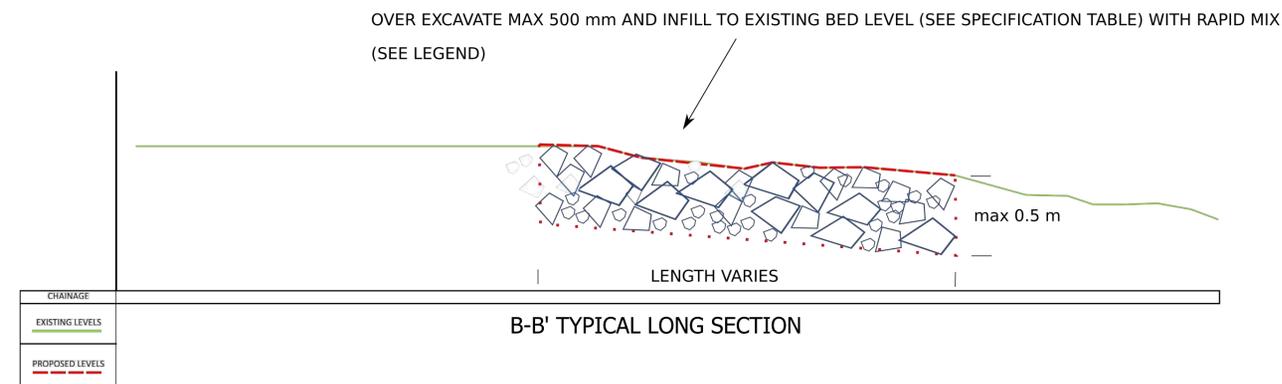
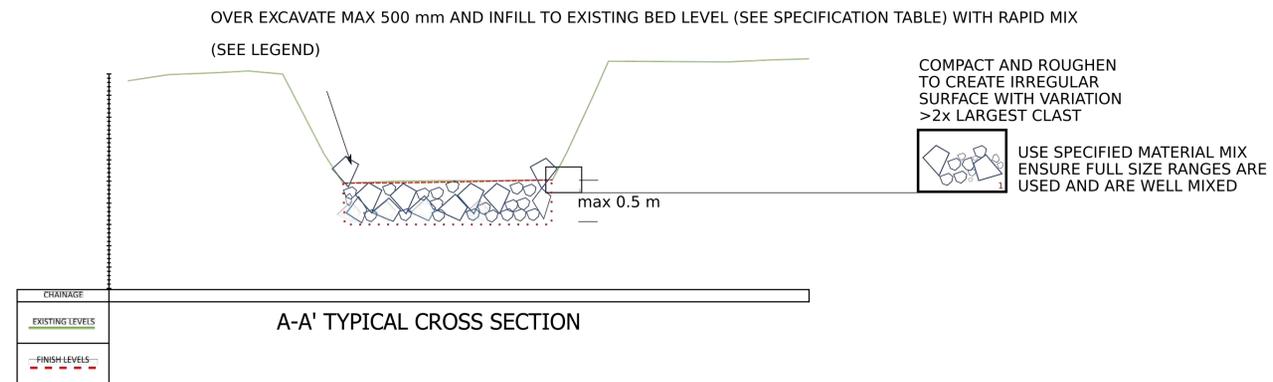
PROJECT TITLE: Clywedog Weirs - Felin Puleston	
PROJECT NUMBER: DR-2021-0074	
SHEET TITLE: RAPID 2 & 3 FEATURE	
AUTHORS: Author: RW Checked: SB Approved: GH	
SCALE: MAP SCALE AT A1	SHEET: 6



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	332519.831,349329.743	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	332569.436,349292.064	17.3	8.6	69.8	69.8	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	



THE WELSH DEE TRUST
 Unit 30, Malthouse Business Centre, Regent Street, Llangollen Wrexham, Denbighshire, LL20 8HS.

YMDDIRIEDOLAETH
 DYFRDWY CYMRU

REVISION	DATE
1	11/10

LEGEND:

	RAPID MIX:		BED CHECK FEATURE MIX:
	30% 300-500 mm		30% 300-500 mm
	20% 200-300 mm		30% 200-300 mm
	25% 100-200 mm		30% 100-200 mm
	25% <100 mm		10% <100 mm

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

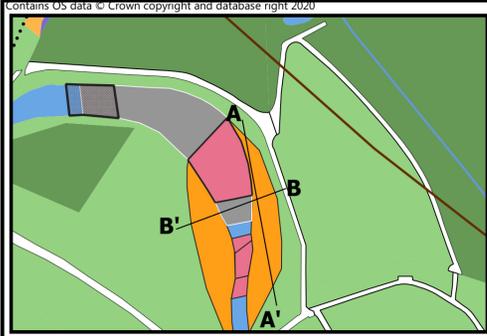
PROJECT NUMBER:
DR-2021-0074

SHEET TITLE:
RAPID 1 AND BED CHECK FEATURE

AUTHORS:
Author: RW
Checked: SB
Approved: GH

SCALE:
MAP SCALE AT A1

SHEET:
6

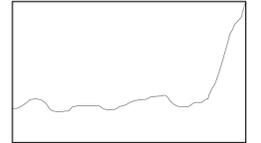


Feature Specification Table:

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

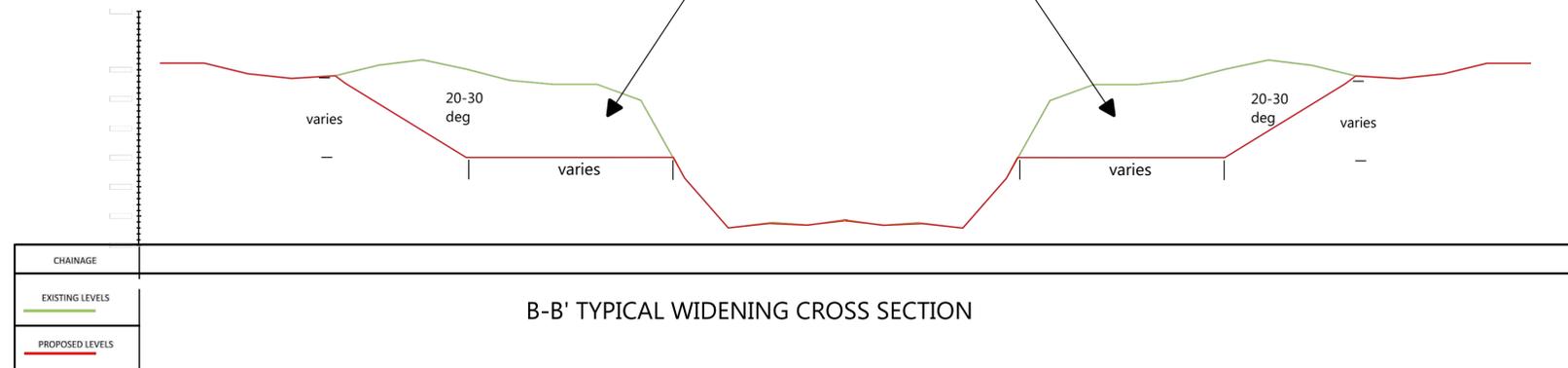


EXCAVATE TO LEVEL IN FEATURE SPECIFICATION TABLE TO CREATE WIDENING



A-A' TYPICAL WIDENING LONG SECTION

EXCAVATE TO LEVEL IN FEATURE SPECIFICATION TABLE TO CREATE WIDENING



B-B' TYPICAL WIDENING CROSS SECTION



Dynamic Rivers
(Survey and Design) Ltd



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

REVISION	DATE
1	11/10

LEGEND:

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:
Clwddog 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:

7