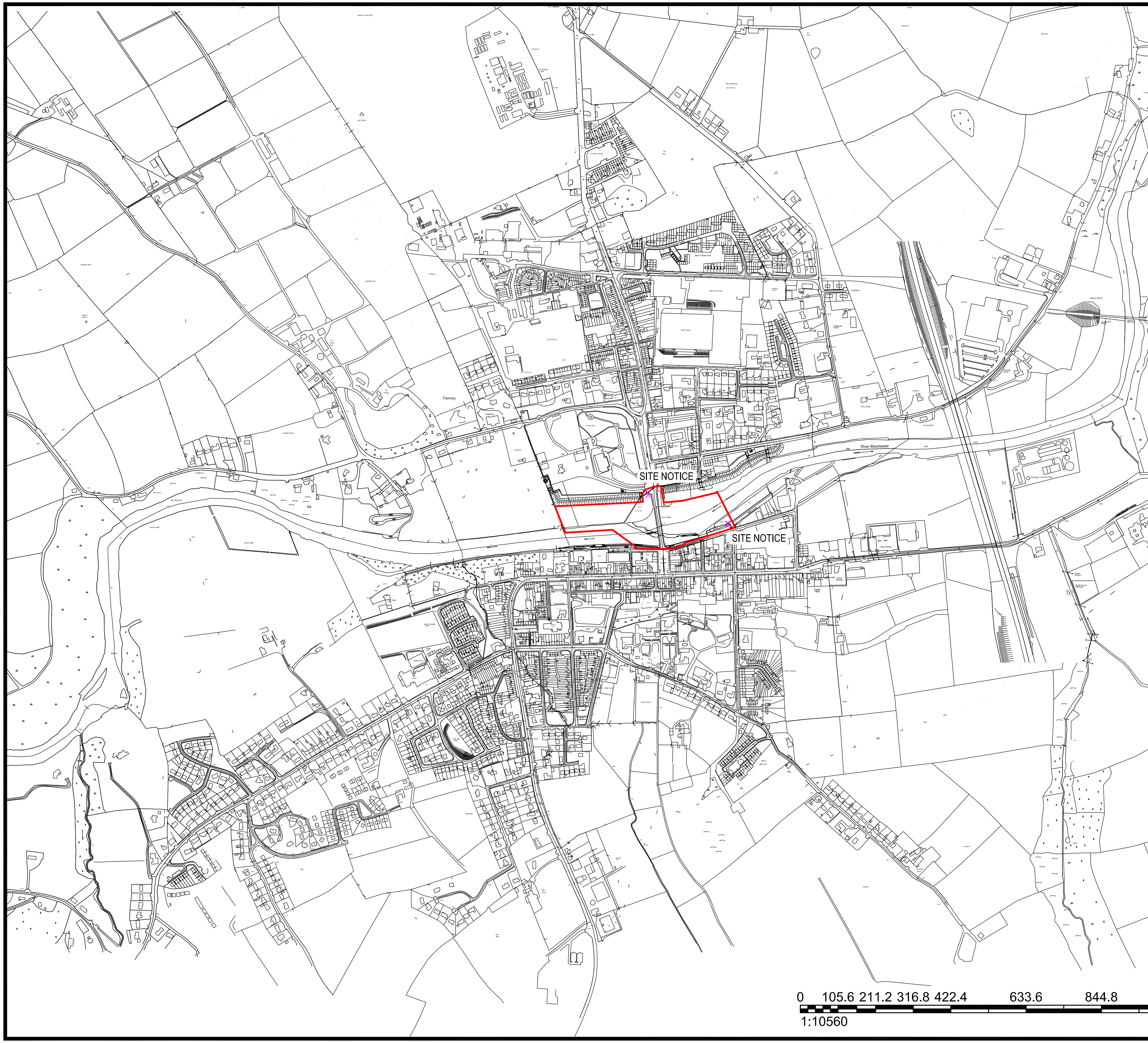


N

LEGEND:

PLANNING RED LINE BOUNDARY

PERMANENT WAYLEAVES

SITE NOTICE LOCATION X

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION & FISH BYPASS CHANNEL

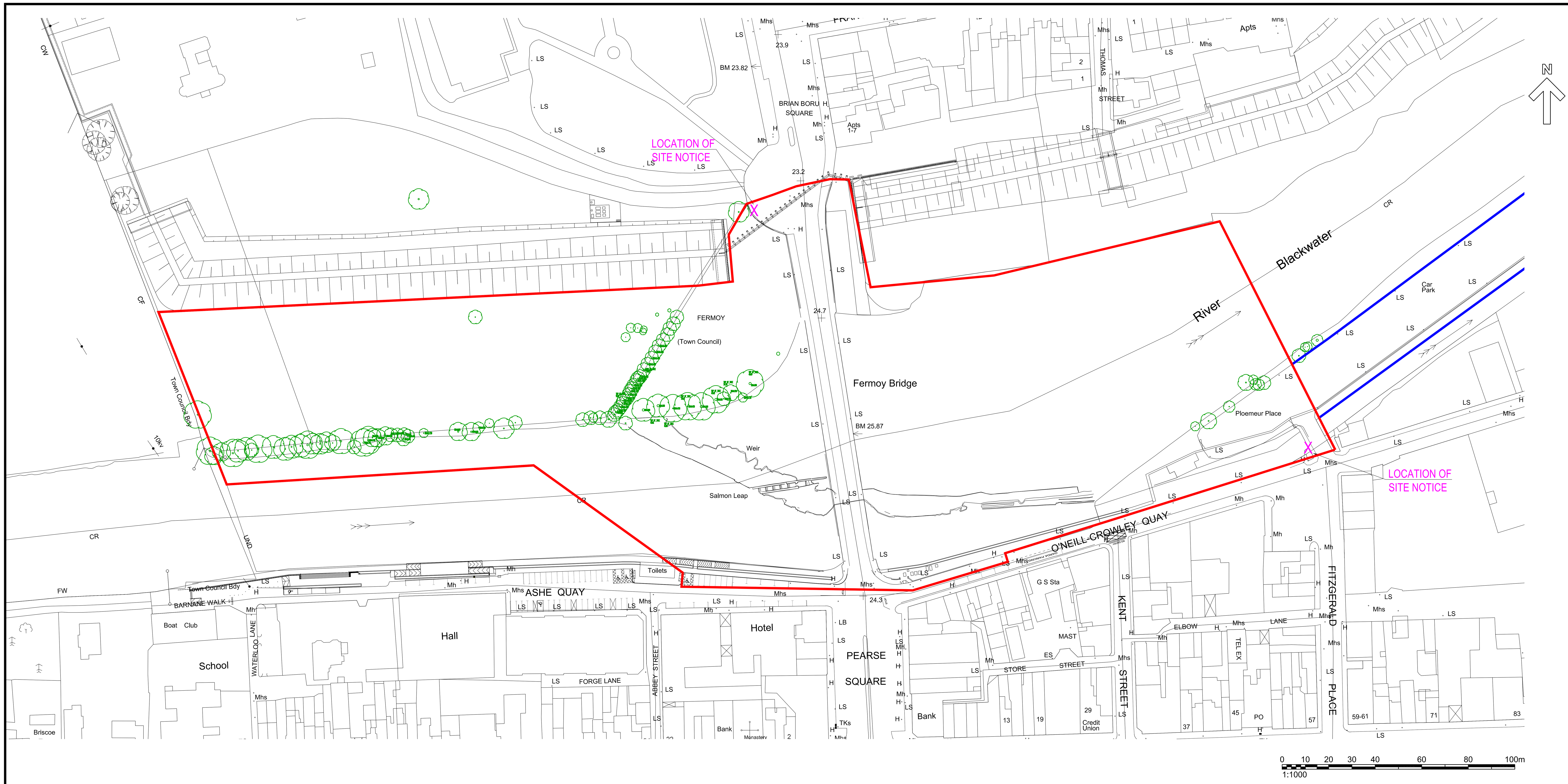
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: SITE LOCATION MAP

SCALE: 1:10560 (A3)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0048

REV: C01



LEGEND:

PLANNING RED LINE BOUNDARY	
PERMANENT WAYLEAVES	
SITE NOTICE LOCATION	X
OTHER LANDS IN THE CONTROL OF THE APPLICANT	

MAP REPRODUCED BY PERMISSION OF ORDNANCE SURVEY IRELAND (CORK CCMA 9802)

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT: CORK COUNTY COUNCIL

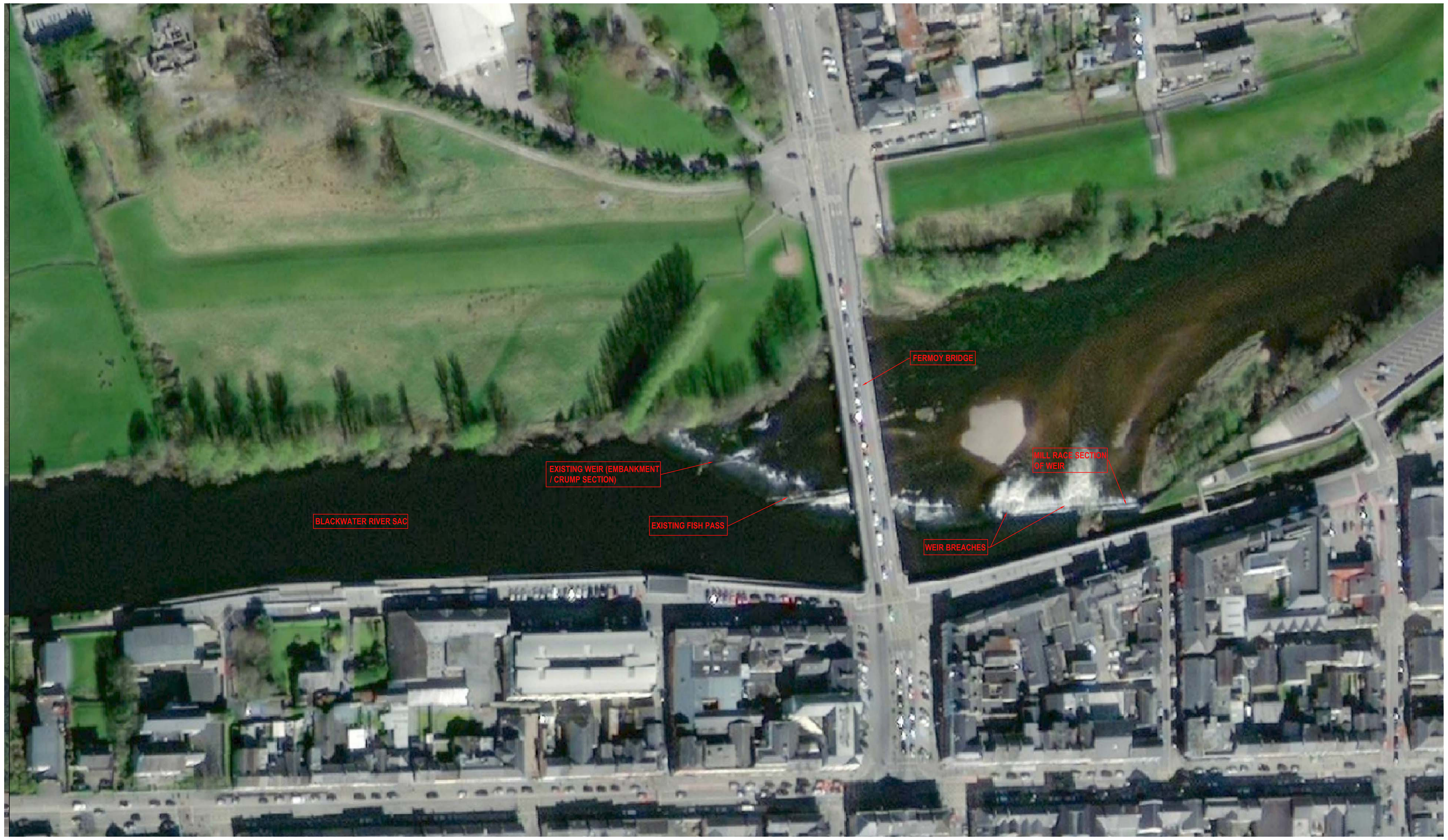
DRAWING TITLE: SITE LOCATION PLAN

SCALE: 1:1000 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER

19011-TJOC-PL-XX-DR-C-0049

REV: C01



N

0 10 20 30 40 60 80 100m
1:1000

C01	AP	ISSUED FOR PLANNING	02.06.2022
REV	STAT	DESCRIPTION	DATE

DRAWING STATUS:
ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT:
FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT:
CORK COUNTY COUNCIL

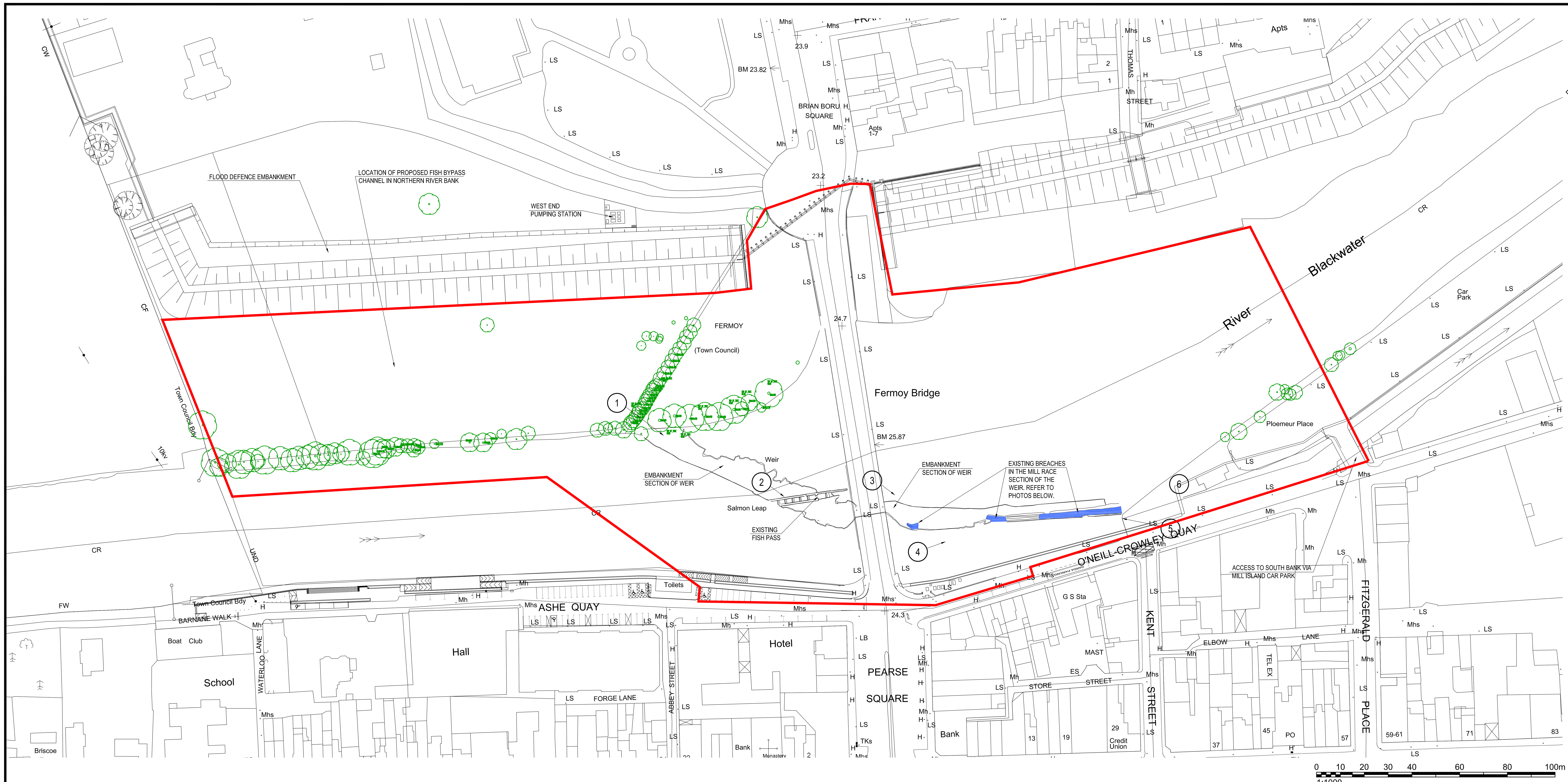
DRAWING TITLE:
FERMOY WEIR
AERIAL VIEW OF EXISTING SITE

SCALE: 1:1000 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0050

REV: C01

Lidar Survey supplied by
Cork County Council
26th June 2018



NOTES:

1. TREE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM GEODATA SURVEYING LTD. TOPOGRAPHICAL SURVEY OF JUNE 2020.
2. EXISTING WEIR INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM WEIR SURVEY CARRIED OUT BY MURPHY GEOSPACIAL IN AUGUST 2018. EXTENT OF BREACHES SHOWN ARE AS SURVEYED IN 2018 AND MAY HAVE INCREASED IN THE TIME SINCE THE SURVEY HAD BEEN CARRIED OUT.
3. PHOTOS TAKEN IN MARCH 2021.

LEGEND:

SITE BOUNDARY
EXISTING TREES
PHOTO LOCATION AND DIRECTION
EXISTING BREACHES IN WEIR


PHOTO 1 - EMBANKMENT WEIR


PHOTO 3 - INTERFACE BETWEEN EMBANKMENT AND MILL RACE WEIR


PHOTO 5 -EXISTING BREACHES IN MILL RACE SECTION OF WEIR


PHOTO 2 - EXISTING FISH LADDER


PHOTO 4 - EXISTING BREACHES IN MILL RACE SECTION OF WEIR
(LOOKING DOWNSTREAM)


PHOTO 6 -EXISTING BREACHES IN MILL RACE SECTION OF WEIR
(LOOKING UPSTREAM)

MAP REPRODUCED BY PERMISSION OF ORDNANCE SURVEY IRELAND (CORK CCMA 9802)

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

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CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: EXISTING SITE LAYOUT PLAN

SCALE: 1:1000 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER: 19011-TJOC-PL-XX-DR-C-0051

REV: C01

0 10 20 30 40 60 80 100m

1:1000

NOTES:

1. FOR DETAILS OF FISH BYPASS REFER TO DRAWING 0053.
2. FOR DETAILS OF REMEDIATION OF EMBANKMENT SECTION OF WEIR REFER TO DRAWINGS 0060-0062.
3. FOR DETAILS OF REMEDIATION TO MILL RACE SECTION OF WEIR REFER TO DRAWINGS 0060 AND 0063.

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

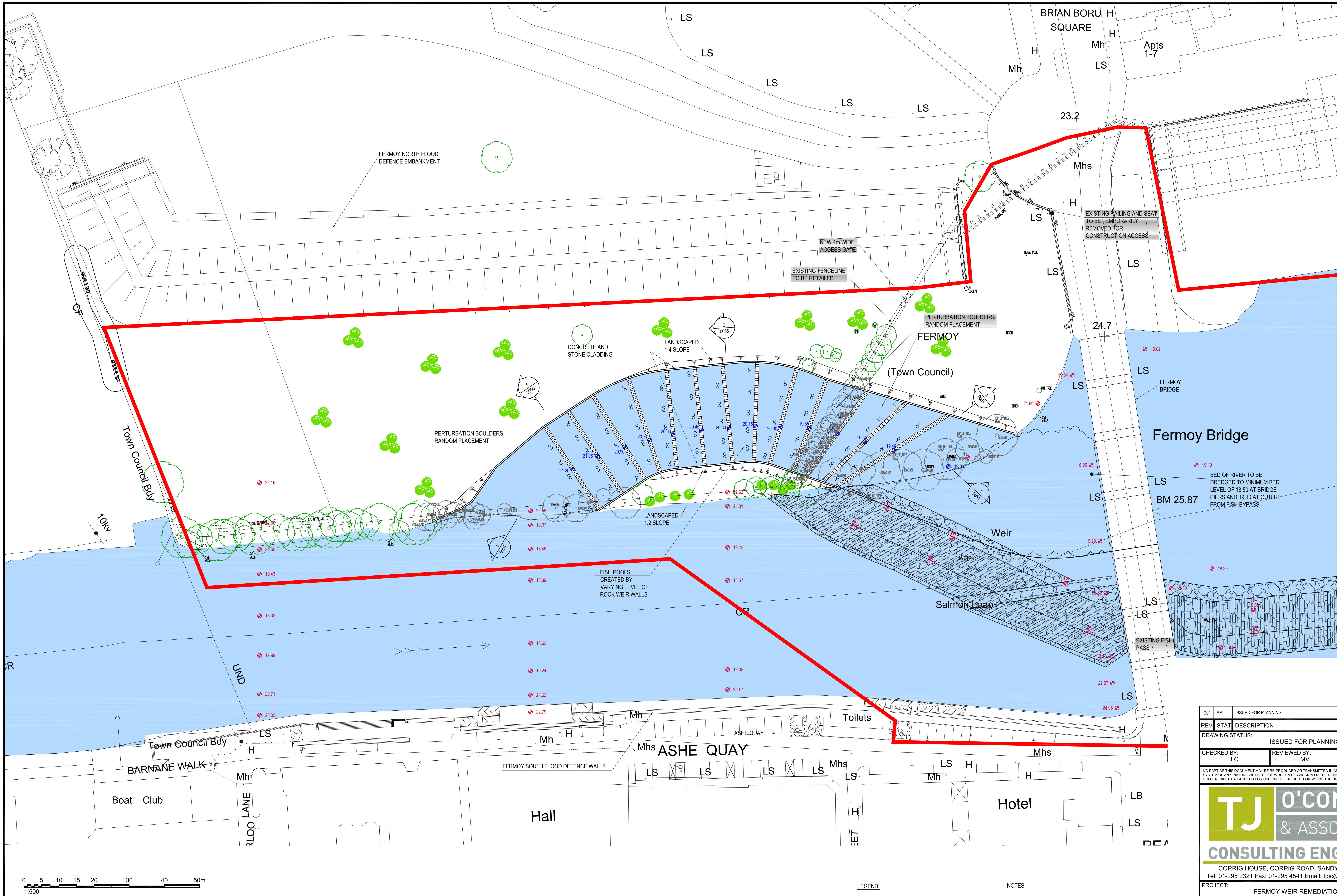
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: KEY PLAN
PROPOSED FISH BYPASS, WEIR AND MILL ISLAND PLAN

SCALE: 1:1000 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0052

REV: C01



LEGEND:

- EXISTING RIVER BED LEVELS 19.02
- PROPOSED LEVELS 19.02
- EXISTING TREES
- EXISTING TREES TO BE REMOVED
- PROPOSED PLANTING

NOTES:

1. REFER TO DRAWINGS 0054 AND 0055 FOR SECTION DETAILS OF PROPOSED FISH BYPASS CHANNEL.
2. ALL LEVELS SHOWN RELATE TO ORDNANCE DATUM MALIN HEAD.

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY: LC | REVIEWED BY: MV | APPROVED BY: DC

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Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

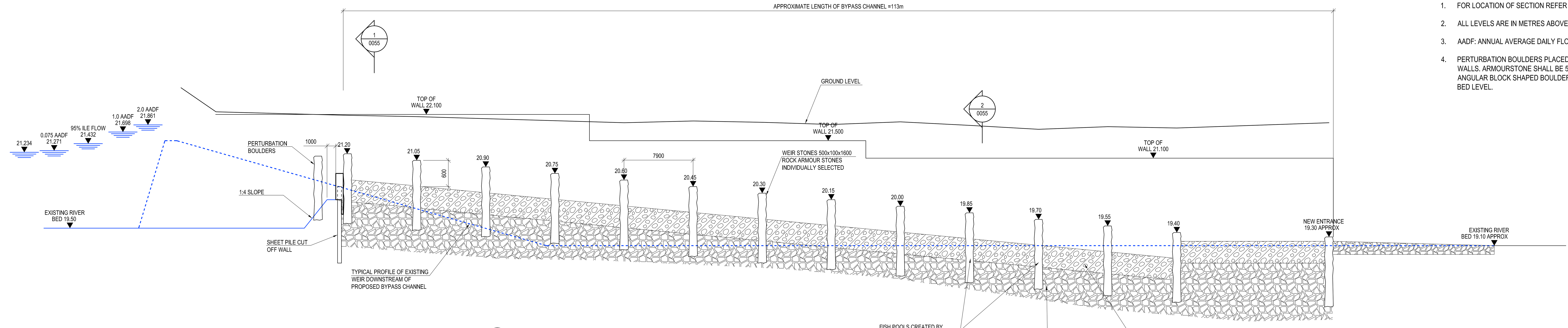
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: PROPOSED FISH BYPASS PLAN

SCALE: 1:500 (A1)

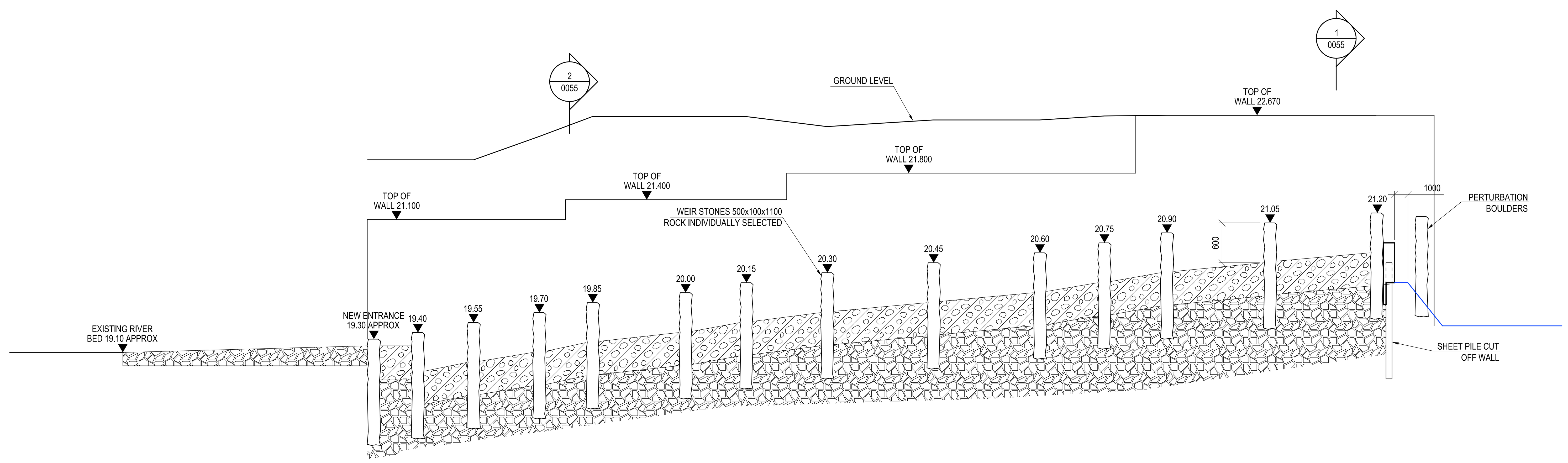
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-XX-XX-DR-C-0053

REV: C01



1
0054
LONGITUDINAL SECTION THROUGH BYPASS CHANNEL
[TAKEN ALONG CENTRELINE OF BYPASS CHANNEL]
SCALE: 1:250 [H], 1:50[V]

2
0054
ELEVATION OF NORTHERN WALL OF BYPASS CHANNEL
SCALE: 1:250 [H], 1:50[V]



3
0054
ELEVATION OF SOUTHERN WALL OF BYPASS CHANNEL
SCALE: 1:250 [H], 1:50[V]

NOTES:

1. FOR LOCATION OF SECTION REFER TO DRAWING 0053.
2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM MALIN HEAD.
3. AADF: ANNUAL AVERAGE DAILY FLOW
4. PERTURBATION BOULDERS PLACED 1m UPSTREAM OF GAPS IN THE WEIR WALLS. ARMOURSTONE SHALL BE 500x1000x1600 HIGH MIN. DIMENSIONS ANGULAR BLOCK SHAPED BOULDERS PROJECTION 500mm ABOVE THE RAMP BED LEVEL.

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY: LC
REVIEWED BY: MV
APPROVED BY: DC

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Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: PROPOSED FISH BYPASS LONGITUDINAL SECTION

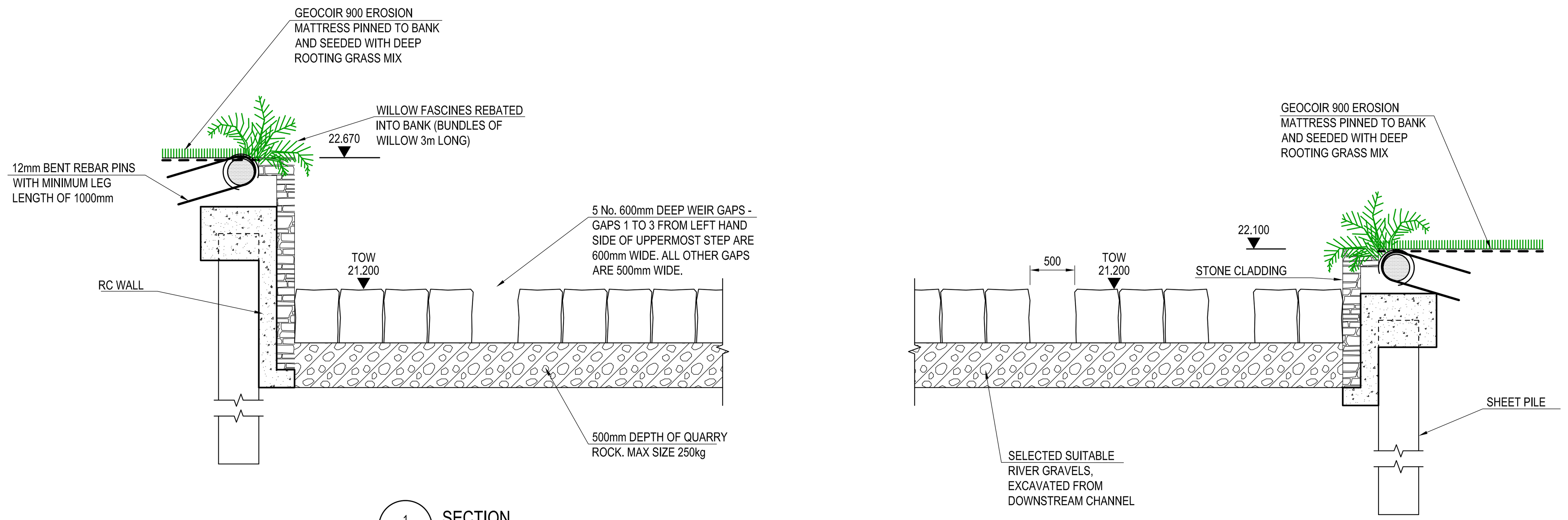
SCALE: 1:250 [H], 1:50 [V] (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-XX-XX-DR-C-0054

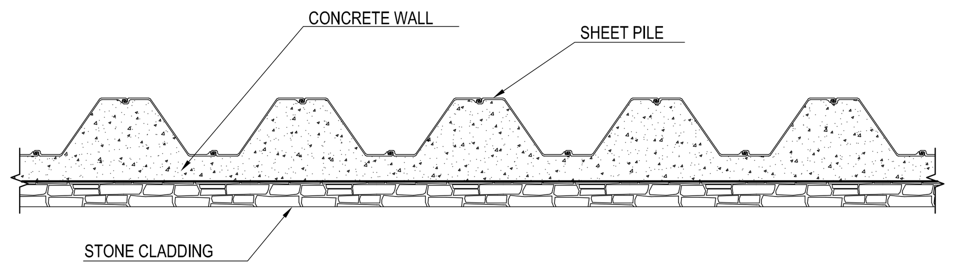
REV: C01

NOTES:

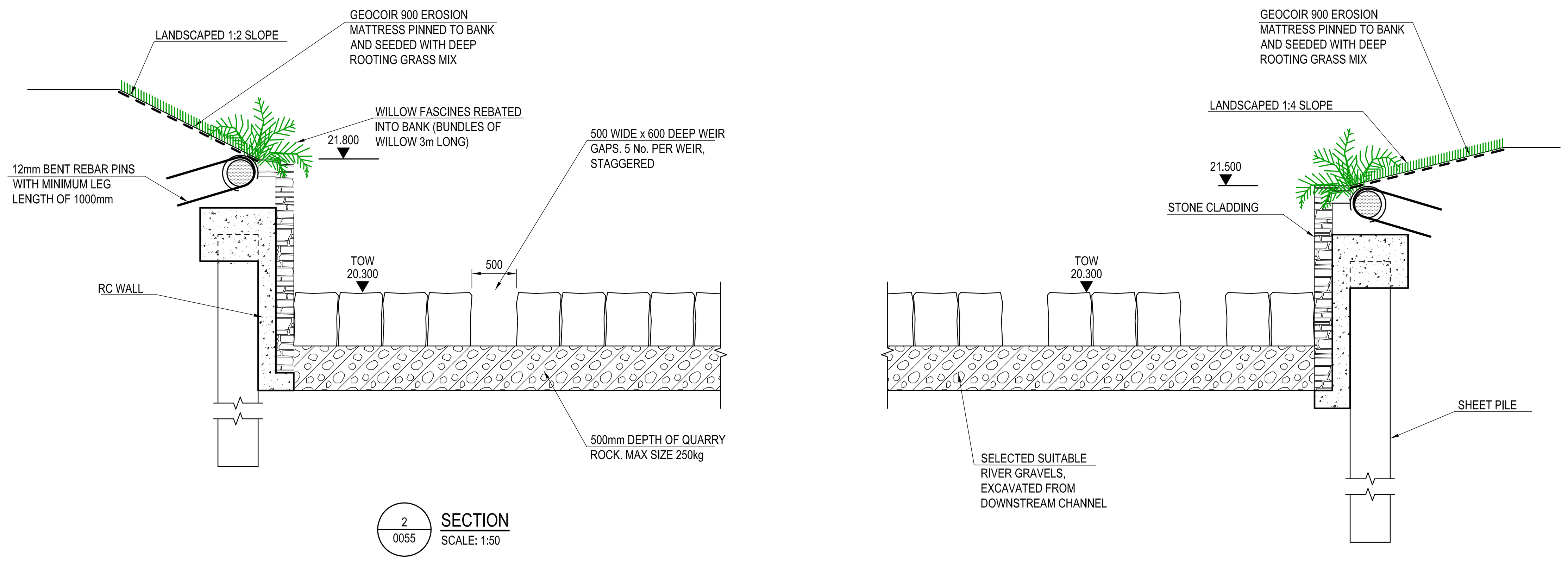
1. FOR LOCATION OF SECTIONS REFER TO DRAWING 0053.
2. ALL LEVELS ARE IN METERS ABOVE ORDNANCE DATUM MALIN HEAD



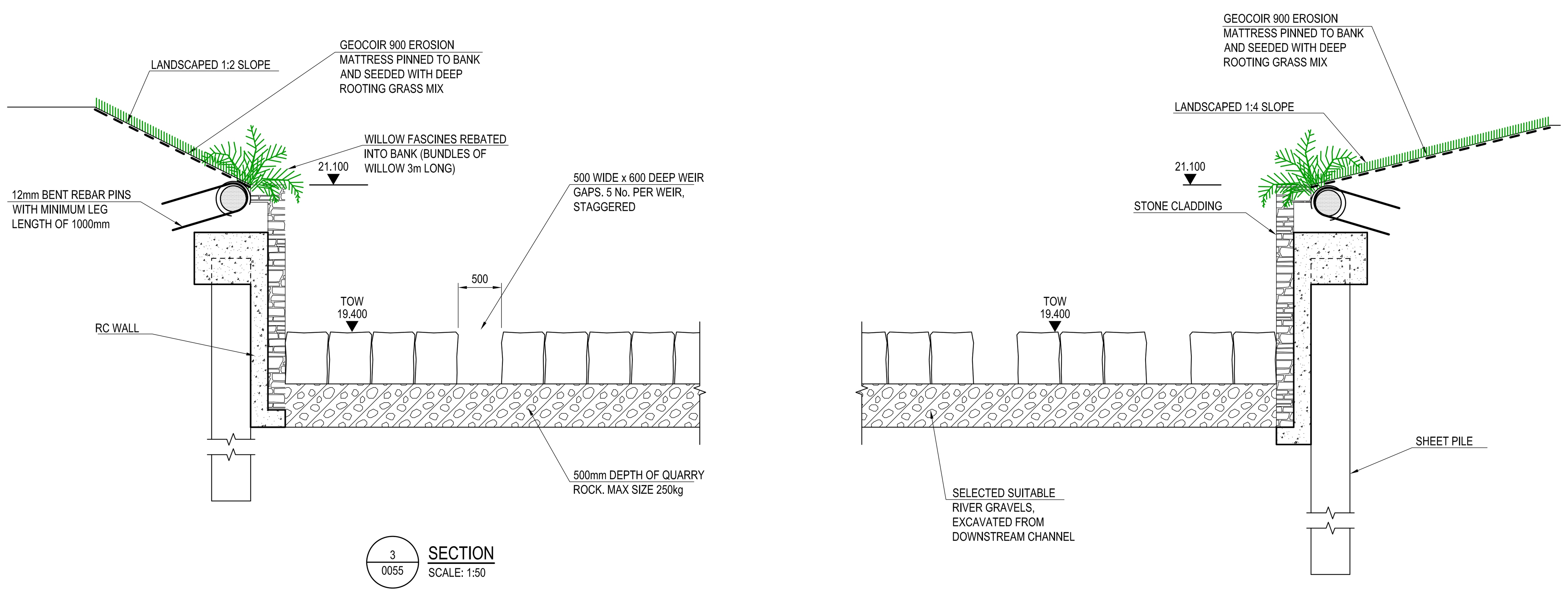
1/0055 SECTION
SCALE: 1:50



4/0055 DETAIL PART PLAN OF SHEET PILE WALL
SCALE: 1:50



2/0055 SECTION
SCALE: 1:50



3/0055 SECTION
SCALE: 1:50

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

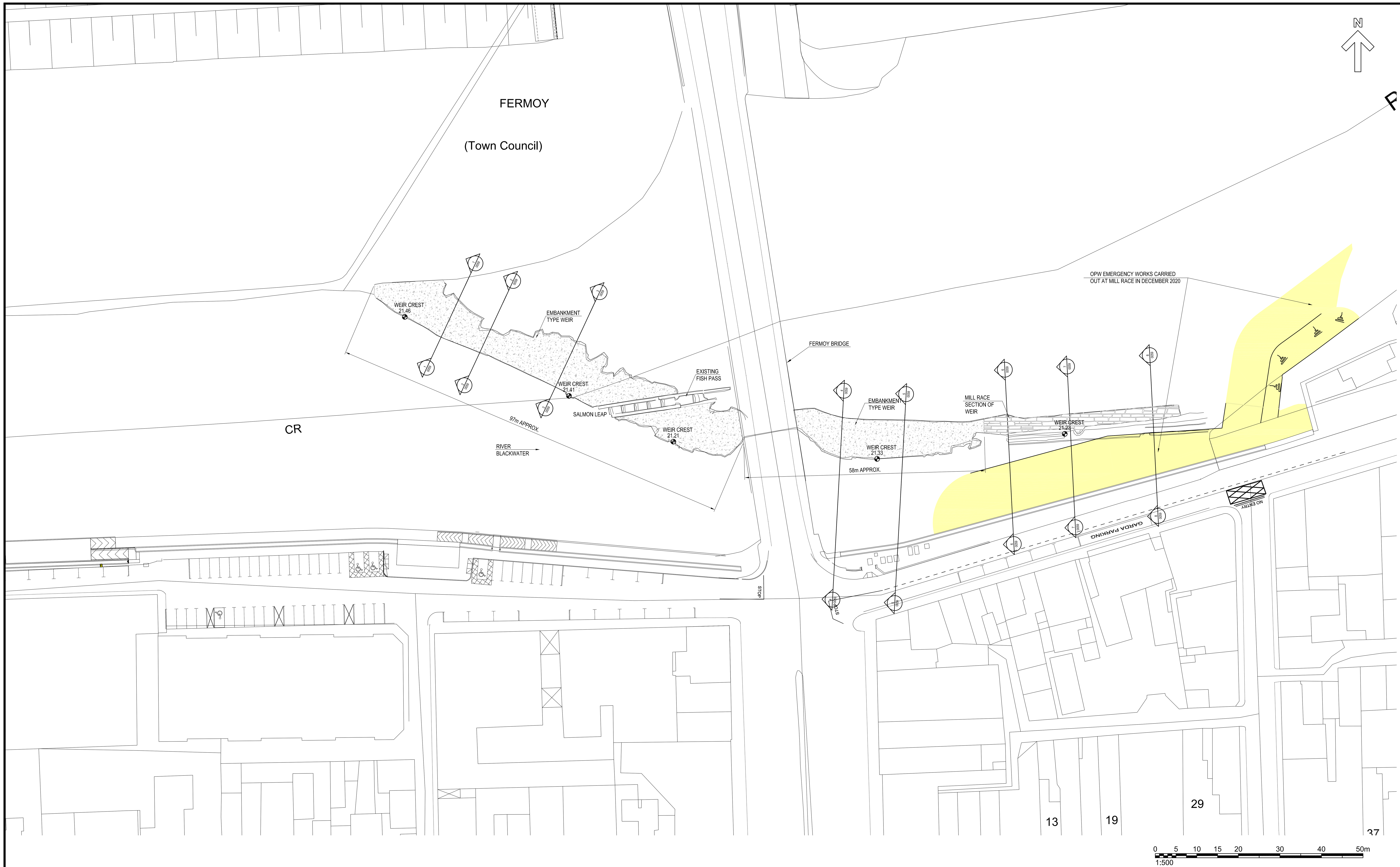
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: FISH BYPASS SECTIONS

SCALE: 1:50 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-XX-XX-DR-C-0055

REV: C01



NOTES:

1. EXTENT OF EXISTING WEIR BASE ON TOPOGRAPHICAL SURVEY UNDERTAKEN BY MURPHY GEOSPACIAL IN AUGUST 2018.
2. FOR SECTIONS THROUGH EXISTING WEIR REFER TO DRAWING 0059.

APPROXIMATE EXTENT OF BED STABILISATION WORKS UNDERTAKEN BY THE OPW IN 2020

MAP REPRODUCED BY PERMISSION OF ORDNANCE SURVEY IRELAND (CORK CCMA 9802)

REV	SUIT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY EMBANKMENT WEIR REMEDIATION AND FISH BYPASS CHANNEL

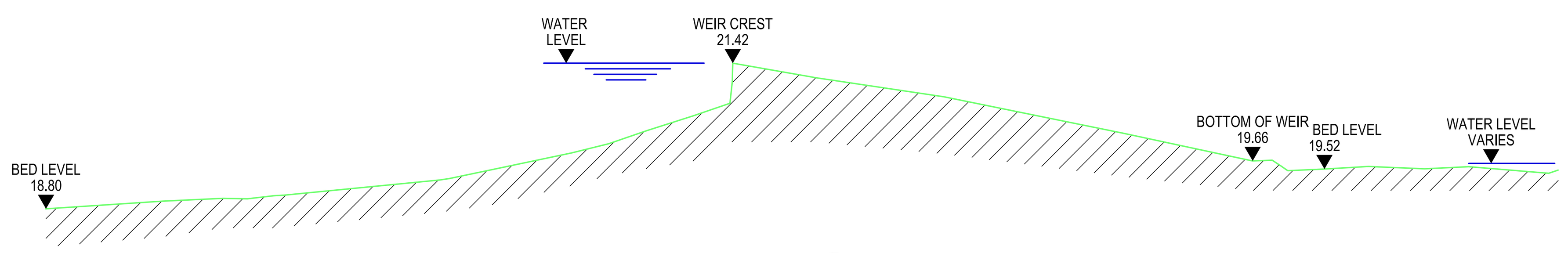
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: WEIR REMEDIATION
PLAN OF EXISTING WEIR

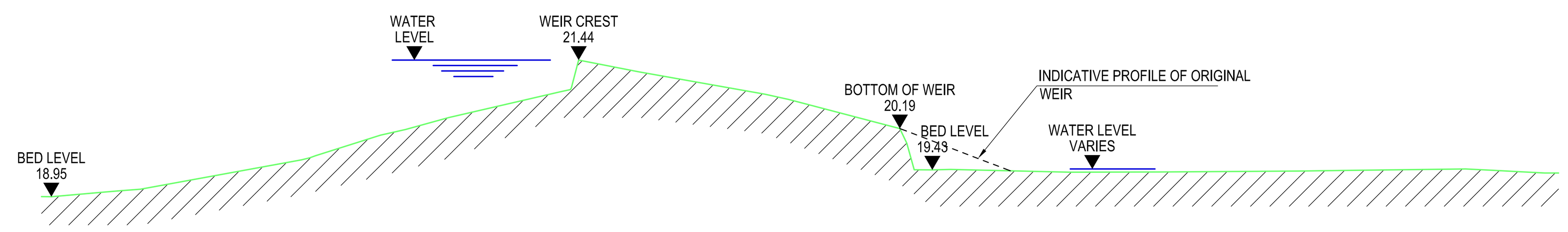
SCALE: 1:500 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0058

REV: C01



1 / 0059 EXISTING EMBANKMENT WEIR SECTION
SCALE: 1:100



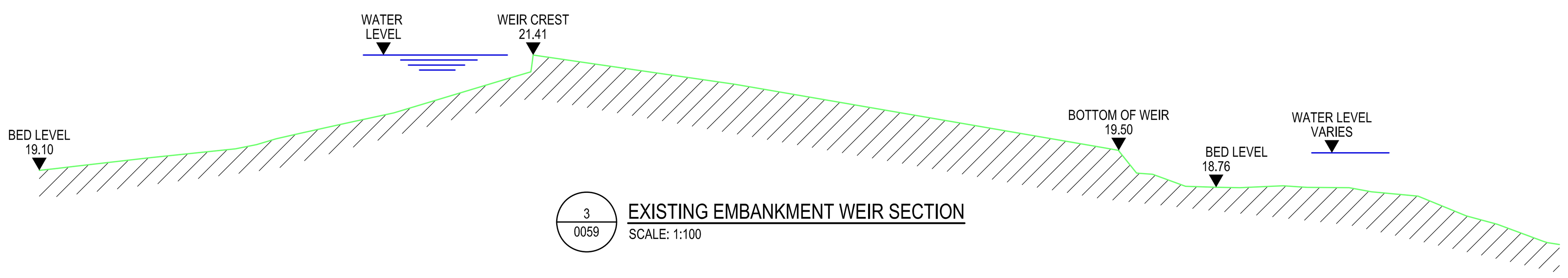
2 / 0059 EXISTING EMBANKMENT WEIR SECTION
SCALE: 1:100

NOTES:

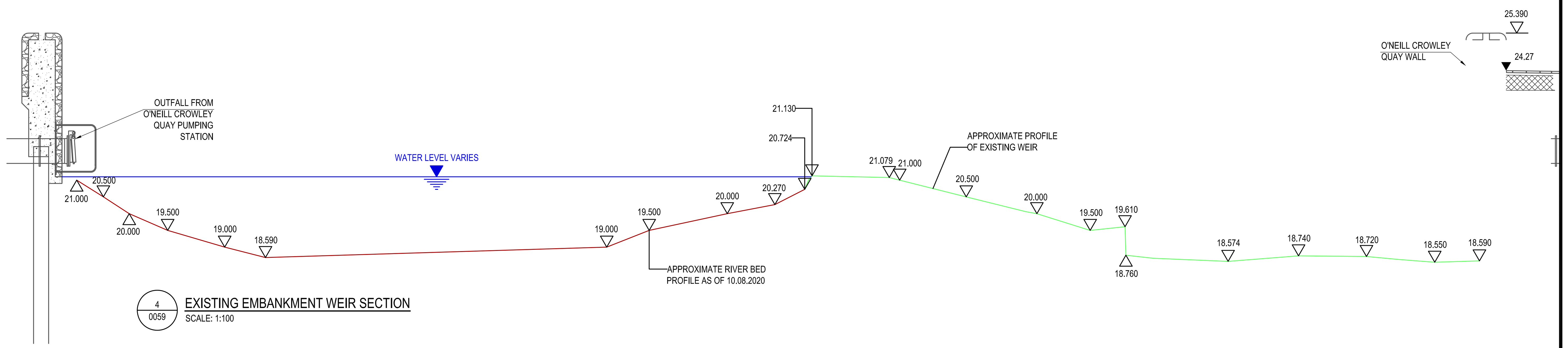
1. FOR LOCATION OF SECTIONS REFER TO DRAWING 0058.
2. ALL LEVELS SHOWN ARE IN METERS ABOVE ORDNANCE DATUM, MALIN HEAD.
3. AUGUST 2018 AND AUGUST 2020 SURVEYS OF THE RIVER BED AND WEIR UNDERTAKEN BY MURPHY GEOSPATIAL AND CARRIED OUT TO ITM.
4. AUG 2018 SURVEY DRAWING REFERENCE 27232 18024_Fermoy_Weir
5. AUG 2020 SURVEY DRAWING REFERENCE MSL37760_01
6. SECTIONS SHOW APPROXIMATE BED PROFILE FOLLOWING WORKS COMPLETED BY OPW IN AUTUMN 2020.

LEGEND:

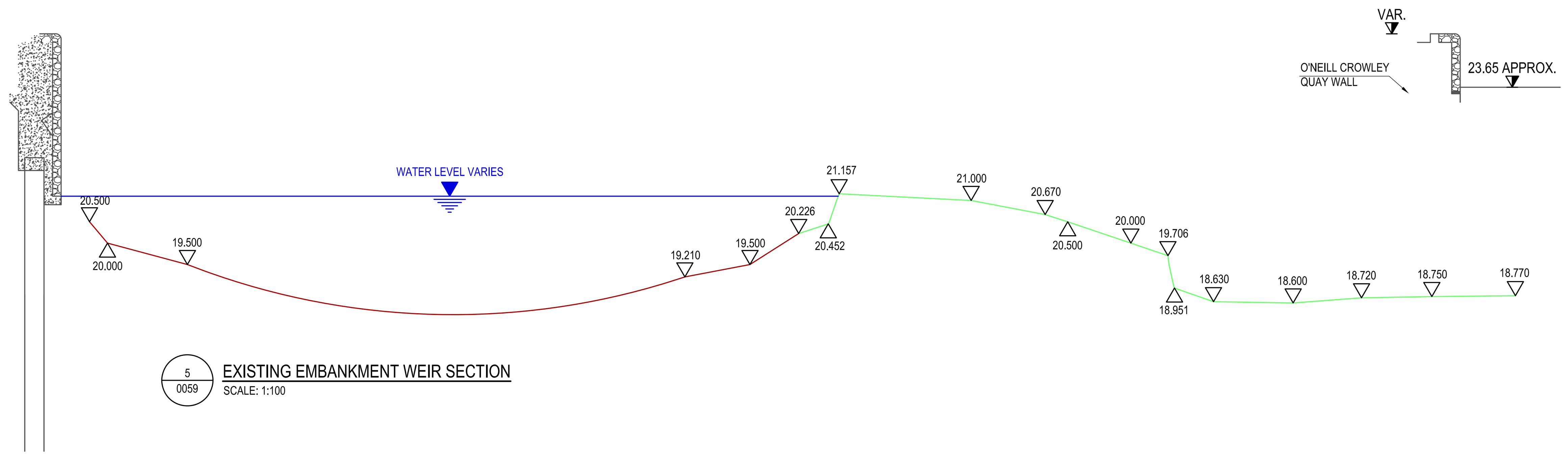
AUGUST 2018 SURVEY PROFILE
AUGUST 2020 SURVEY BED PROFILE



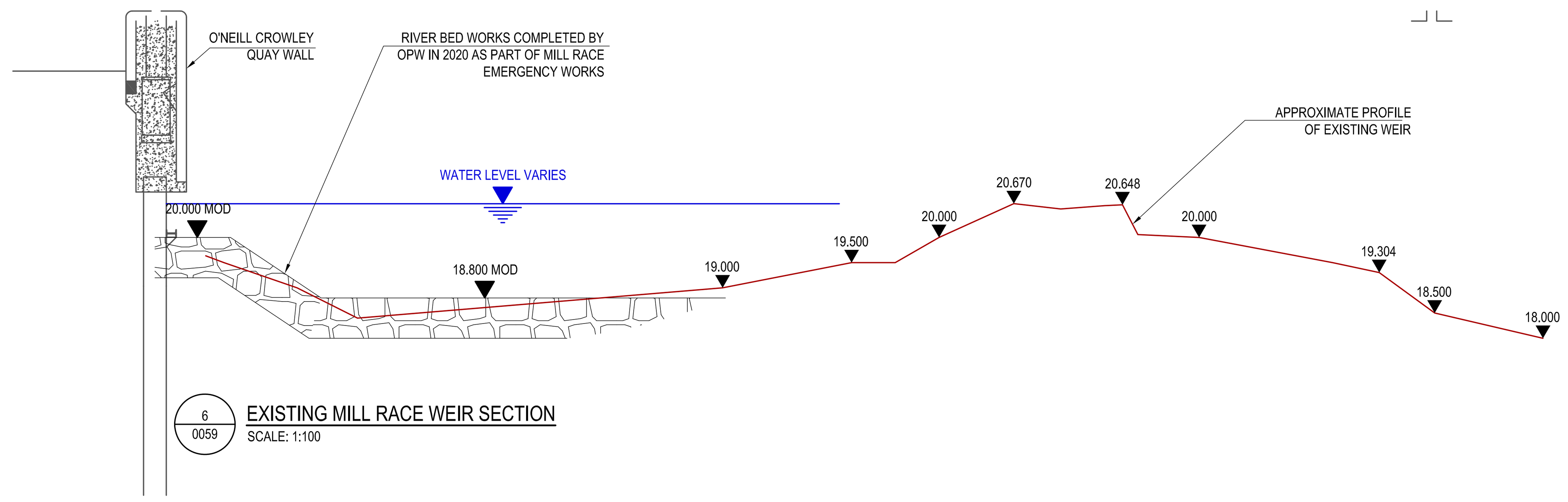
3 / 0059 EXISTING EMBANKMENT WEIR SECTION
SCALE: 1:100



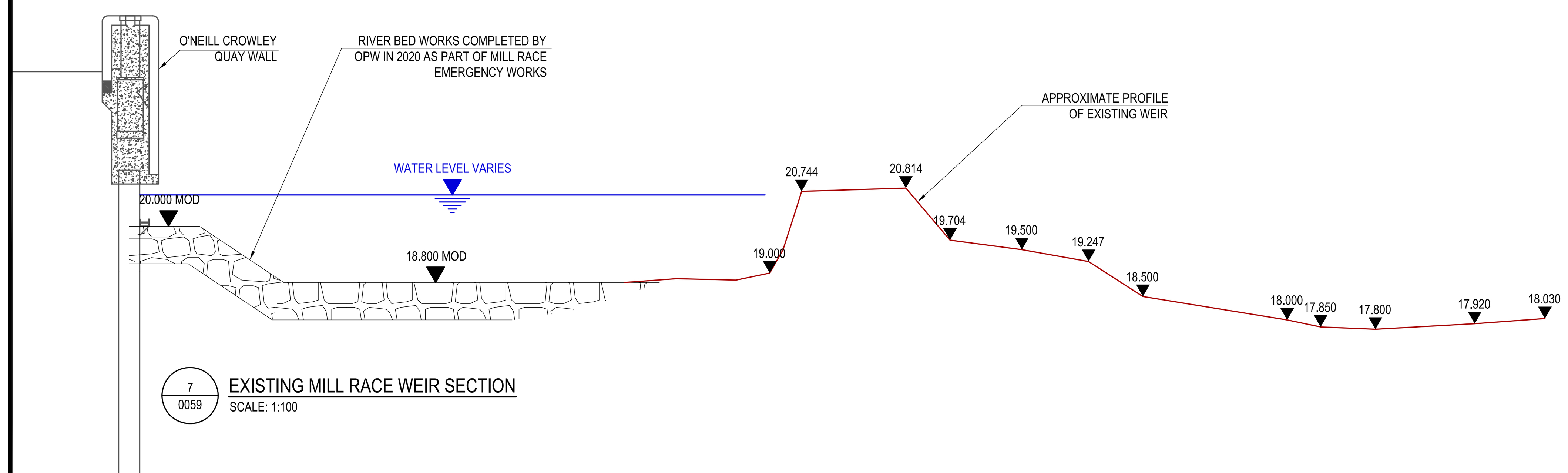
4 / 0059 EXISTING EMBANKMENT WEIR SECTION
SCALE: 1:100



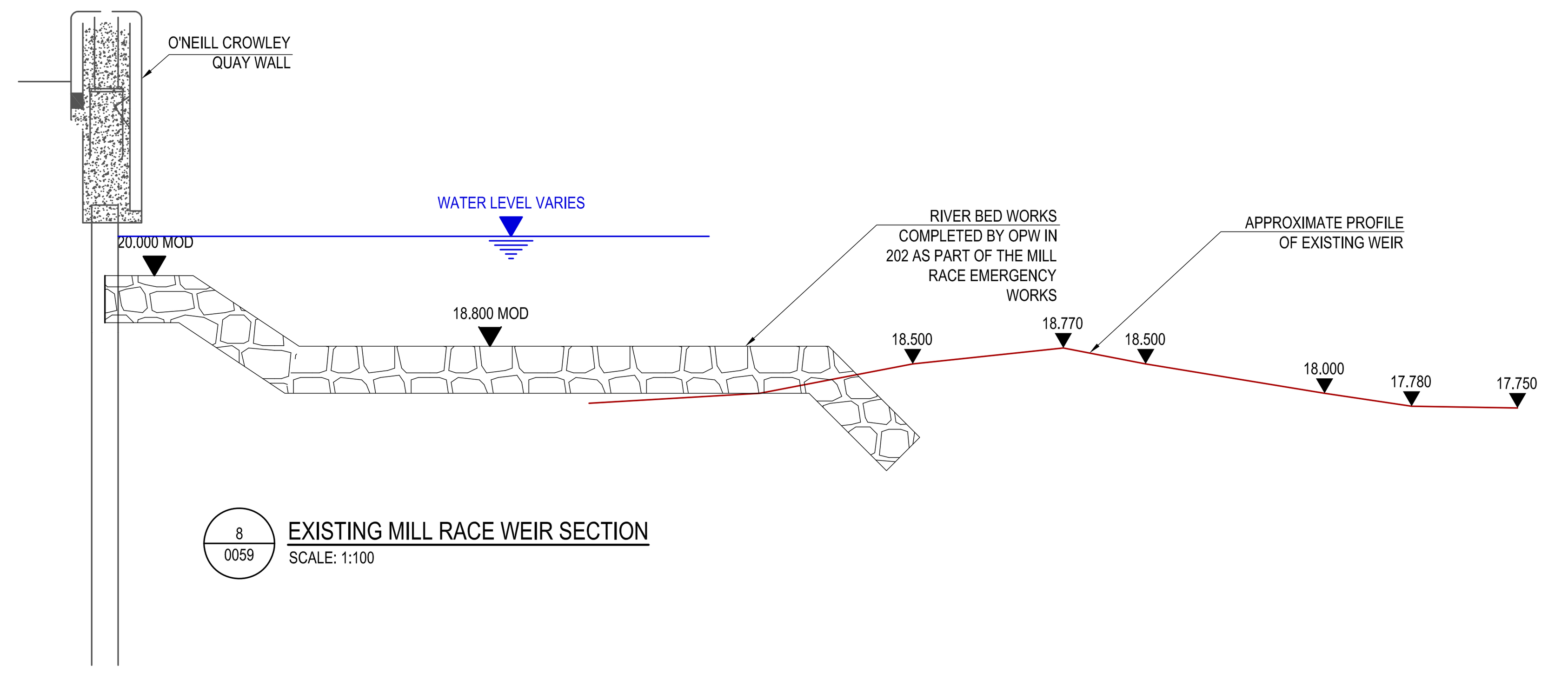
5 / 0059 EXISTING EMBANKMENT WEIR SECTION
SCALE: 1:100



6 / 0059 EXISTING MILL RACE WEIR SECTION
SCALE: 1:100



7 / 0059 EXISTING MILL RACE WEIR SECTION
SCALE: 1:100



8 / 0059 EXISTING MILL RACE WEIR SECTION
SCALE: 1:100

REV	SUIT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY: LC | REVIEWED BY: MV | APPROVED BY: DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

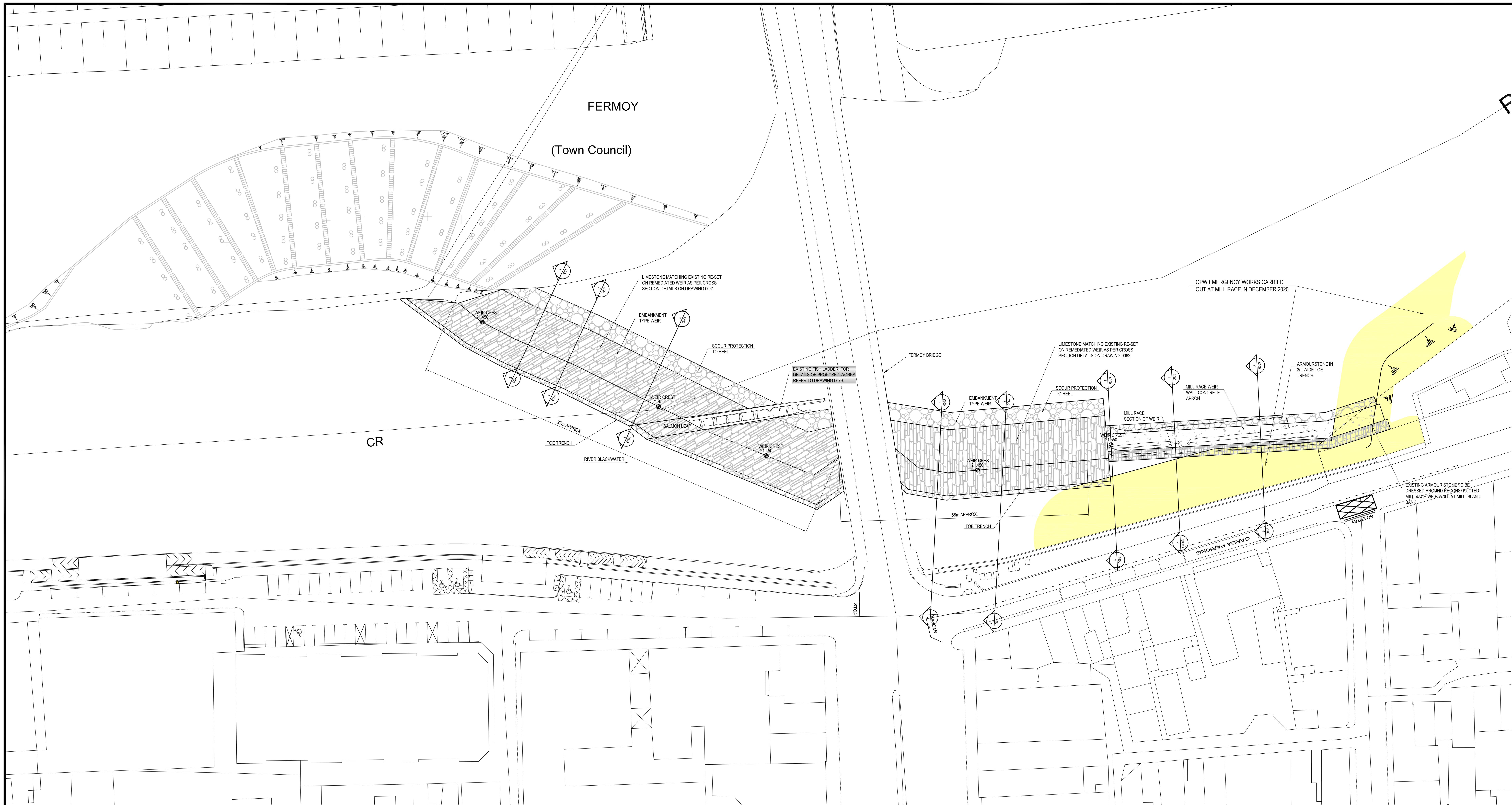
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: PROPOSED WEIR REMEDIATION EXISTING SECTIONS

SCALE: AS SHOWN (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0059

REV: C01



0 5 10 15 20 30 40 50m
1:500

NOTES:

1. FOR SECTIONS THROUGH PROPOSED EMBANKMENT WEIR REFER TO DRAWINGS 0061 AND 0062.
2. FOR SECTIONS THROUGH PROPOSED MILL RACE WEIR REFER TO DRAWING 0063.
3. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM MALIN HEAD.
4. WEIR REMEDIATION SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CONSERVATION ENGINEER'S RECOMMENDATIONS.

APPROXIMATE EXTENT OF BED STABILISATION WORKS UNDERTAKEN BY THE OPW IN 2020

MAP REPRODUCED BY PERMISSION OF ORDNANCE SURVEY IRELAND (CORK CCMA 9802)

REV	SUIT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY: LC | REVIEWED BY: MV | APPROVED BY: DC

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Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY EMBANKMENT WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: WEIR REMEDIATION PLAN OF PROPOSED WEIR

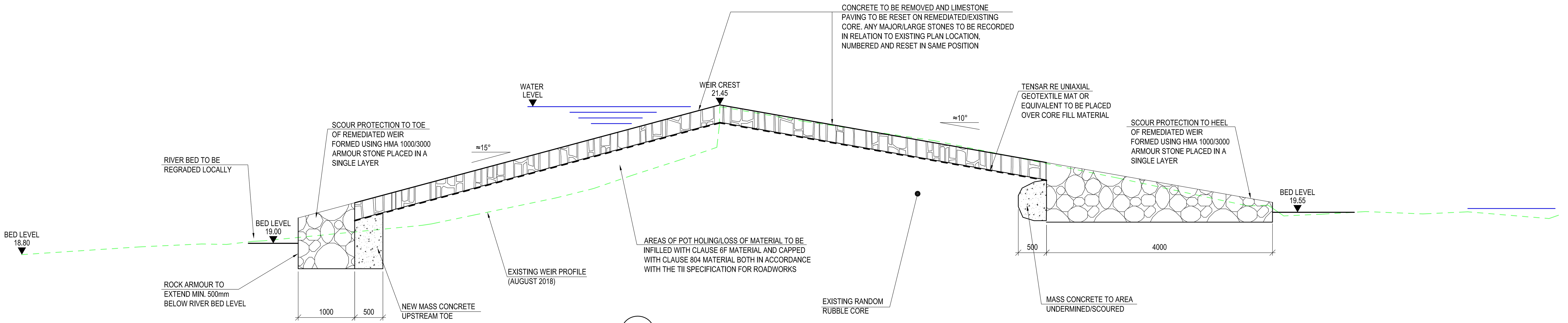
SCALE: 1:500 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0060

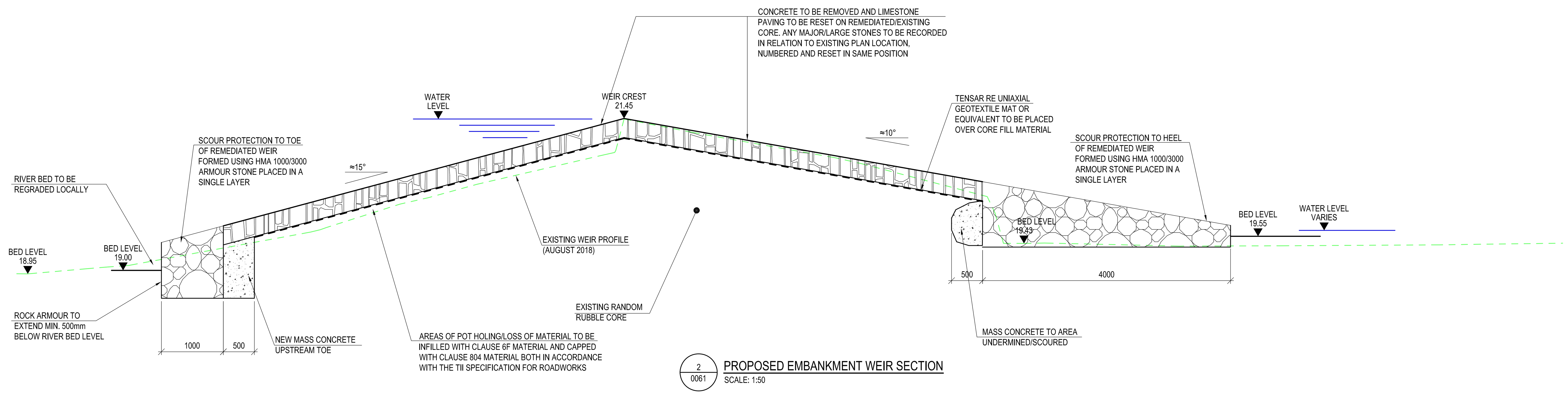
REV: C01

NOTES:

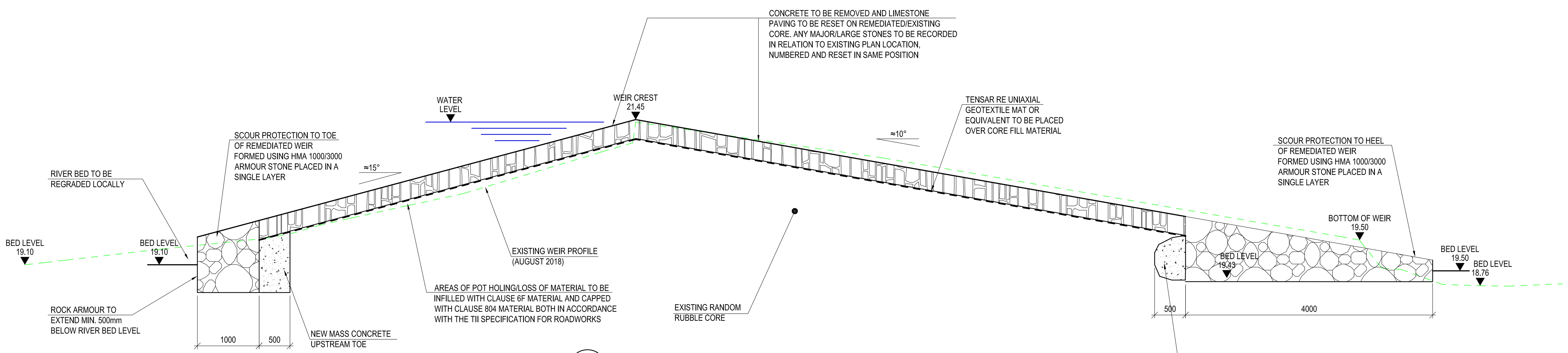
1. ALL LEVELS SHOWN ARE IN METERS ABOVE ORDNANCE DATUM, MALIN HEAD.
2. FOR LOCATIONS OF SECTIONS REFER TO DRAWING 0060.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SURVEY DRAWINGS OF EXISTING WEIR STRUCTURE AND WITH SECTION DRAWINGS 0062 AND 0063.
4. WEIR REMEDIATION SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CONSERVATION ENGINEER'S RECOMMENDATIONS.



1 / 0061 PROPOSED EMBANKMENT WEIR SECTION
SCALE: 1:50



2 / 0061 PROPOSED EMBANKMENT WEIR SECTION
SCALE: 1:50



3 / 0061 PROPOSED EMBANKMENT WEIR SECTION
SCALE: 1:50

REV	SUIT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

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Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT: CORK COUNTY COUNCIL

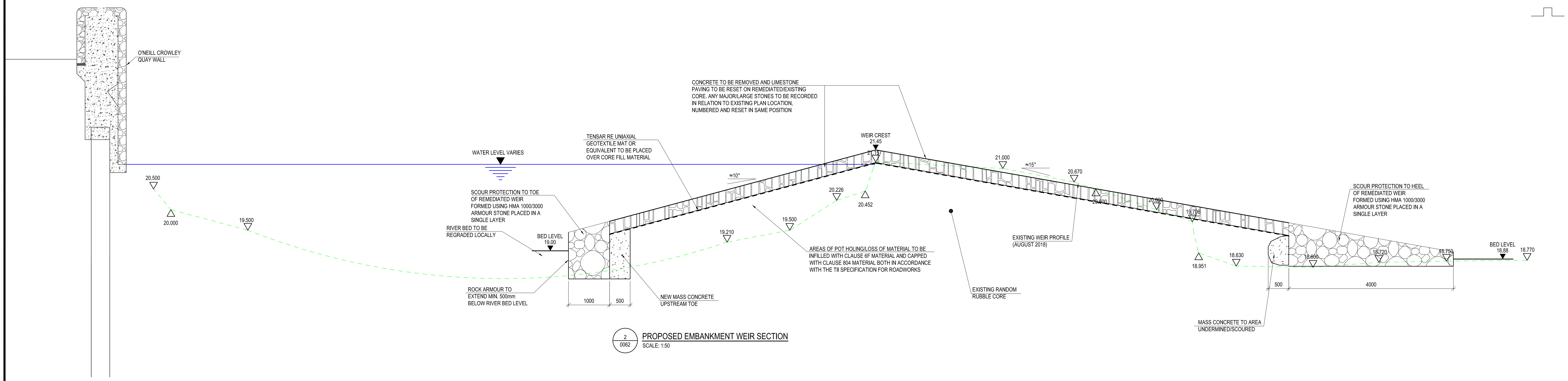
DRAWING TITLE: WEIR REMEDIATION PROPOSED SECTIONS

SCALE: AS SHOWN (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0061

REV: C01

1
0062
PROPOSED EMBANKMENT WEIR SECTION
SCALE: 1:50



2
0062
PROPOSED EMBANKMENT WEIR SECTION
SCALE: 1:50

NOTES:

1. ALL LEVELS SHOWN ARE IN METERS ABOVE ORDNANCE DATUM, MALIN HEAD.
2. FOR LOCATIONS OF SECTIONS REFER TO DRAWING 0060.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SURVEY DRAWINGS OF EXISTING WEIR STRUCTURE AND WITH SECTION DRAWINGS 0061 AND 0063.
4. WEIR REMEDIATION SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CONSERVATION ENGINEER'S RECOMMENDATIONS.

REV	SUIT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: WEIR REMEDIATION PROPOSED SECTIONS

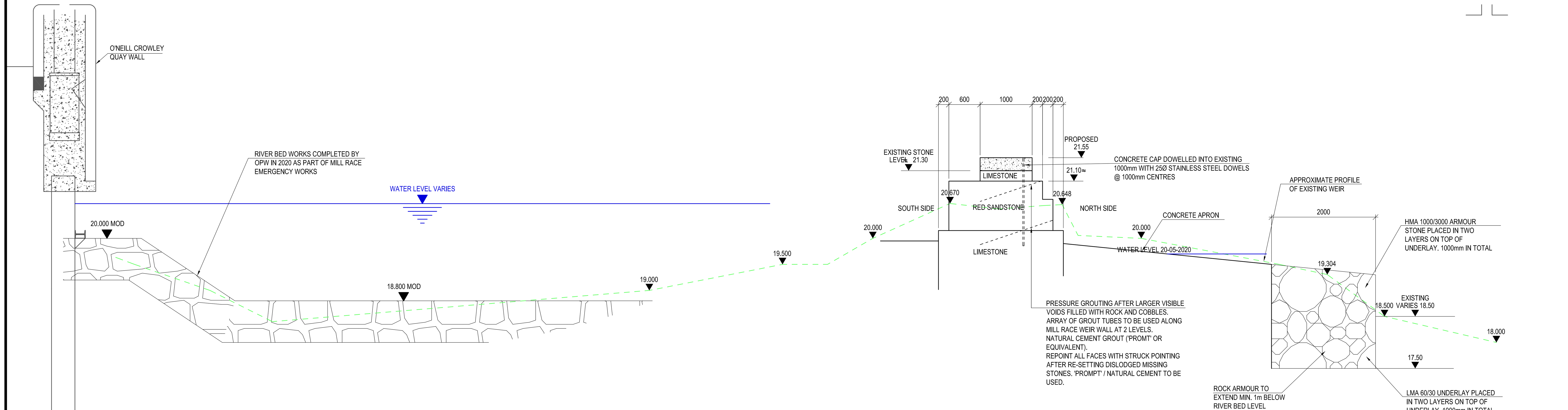
SCALE: AS SHOWN (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0062

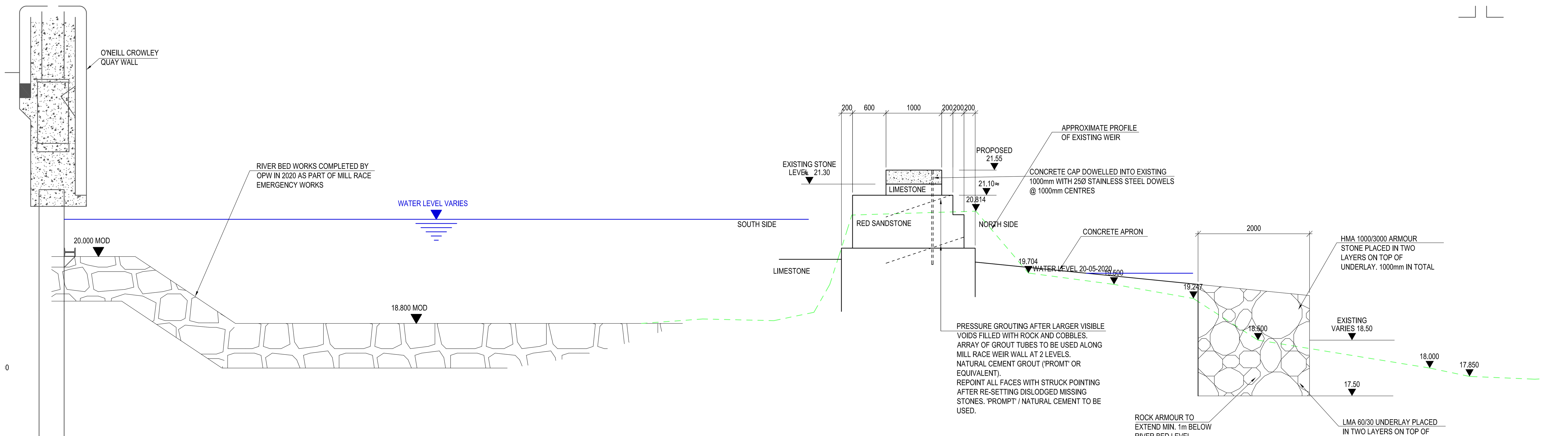
REV: C01

NOTES:

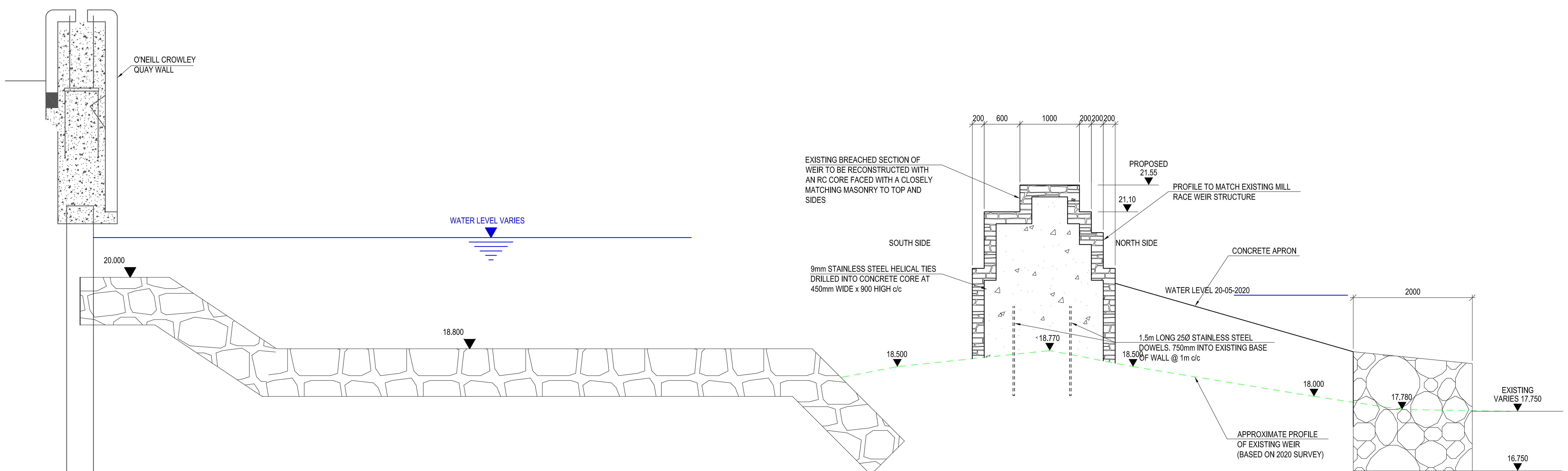
1. ALL LEVELS SHOWN ARE IN METERS ABOVE ORDNANCE DATUM, MALIN HEAD.
2. FOR LOCATIONS OF SECTIONS REFER TO DRAWING 0060.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SURVEY DRAWINGS OF EXISTING WEIR STRUCTURE AND WITH SECTION DRAWINGS 0061 AND 0062.
4. WEIR REMEDIATION SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CONSERVATION ENGINEER'S RECOMMENDATIONS.



6
0063
PROPOSED MILL RACE WEIR SECTION
SCALE: 1:50



7
0063
PROPOSED MILL RACE WEIR SECTION
SCALE: 1:50



8
0063
PROPOSED MILL RACE WEIR SECTION
SCALE: 1:50

REV	SUIT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

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Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: WEIR REMEDIATION PROPOSED SECTIONS

SCALE: AS SHOWN (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0063

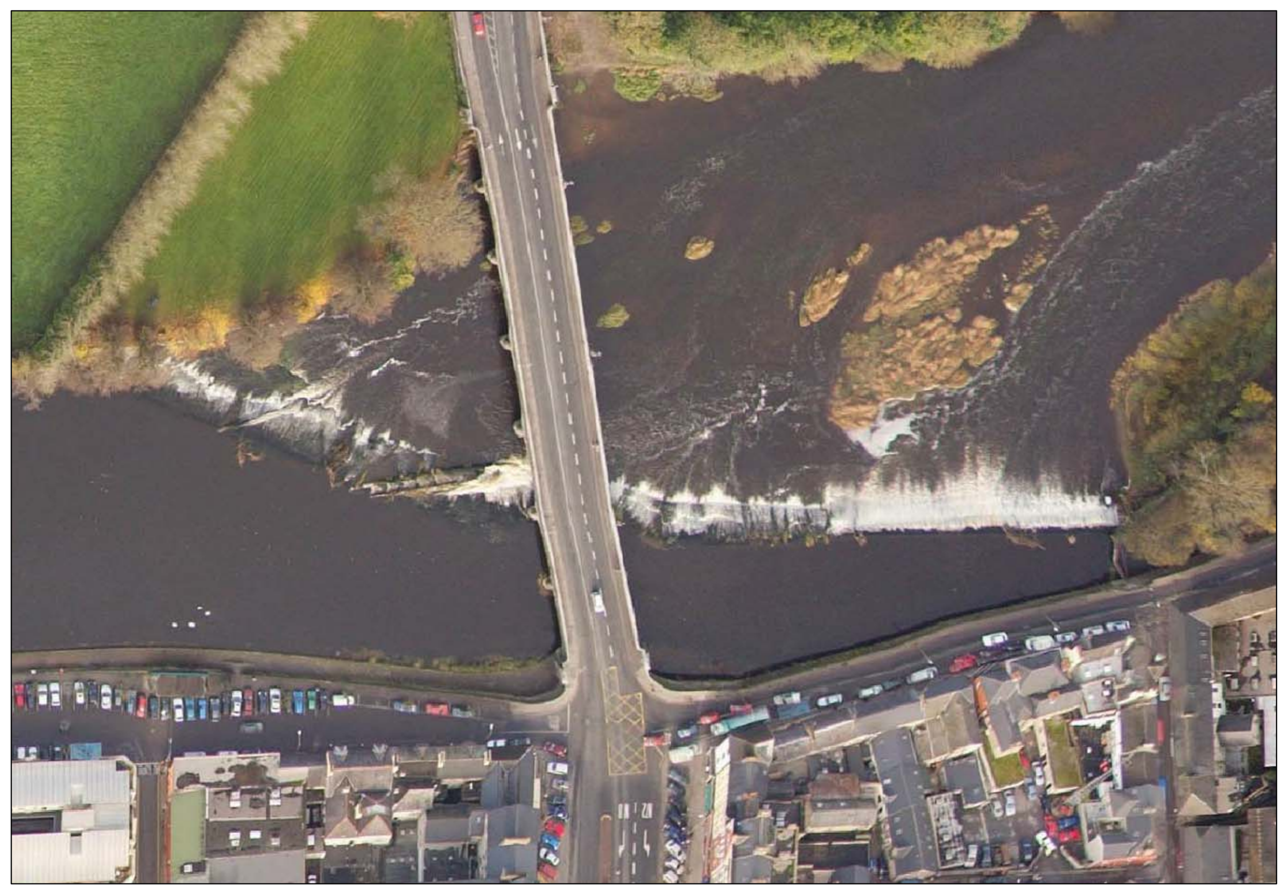
REV: C01

EXISTING WEIR LAYOUT
SCALE: 1:300

1 / 0073

0 3 6 9 12 18 24 30m
1:300

2 / 0073 PHOTO OF EXISTING WEIR ON EAST SIDE OF FERMOY BRIDGE



3 / 0073 AERIAL PHOTO OF FERMOY WEIR

NOTES:

1. REFER TO DRAWINGS 19011-TJOC-PL-XX-DR-C-0074 TO 0078 FOR FURTHER NOTES AND PHOTOGRAPHS.
2. DIMENSIONS SHOWN ON DRAWING ARE APPROXIMATE ONLY AND ARE BASED ON THE SURVEY UNDERTAKEN BY MURPHY SURVEYS LTD ON 23rd AUGUST 2018.
3. COMMENTS AND PHOTOGRAPHS ON THE CONDITION OF THE WEIR ARE BASED ON A VISUAL INSPECTION OF THE WEIR ON 15th AUGUST 2018. NO OPENING UP WORKS OF ANY KIND WERE UNDERTAKEN DURING THE VISUAL INSPECTION.

REV	SUIT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY: LC | REVIEWED BY: MV | APPROVED BY: DC

TJ O'CONNOR & ASSOCIATES CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION

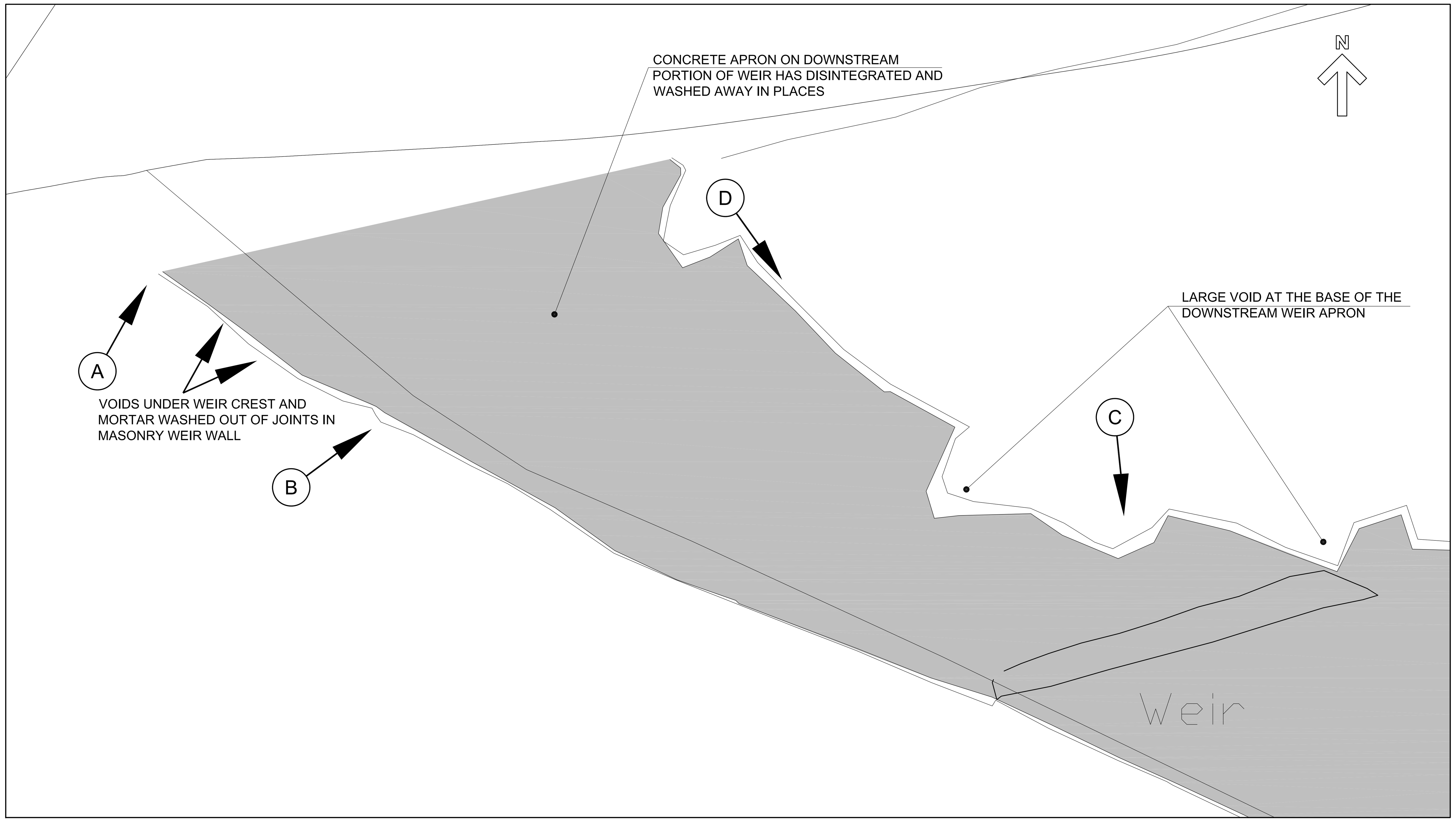
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: SUMMARY OF EXISTING WEIR CONDITION IN 2018

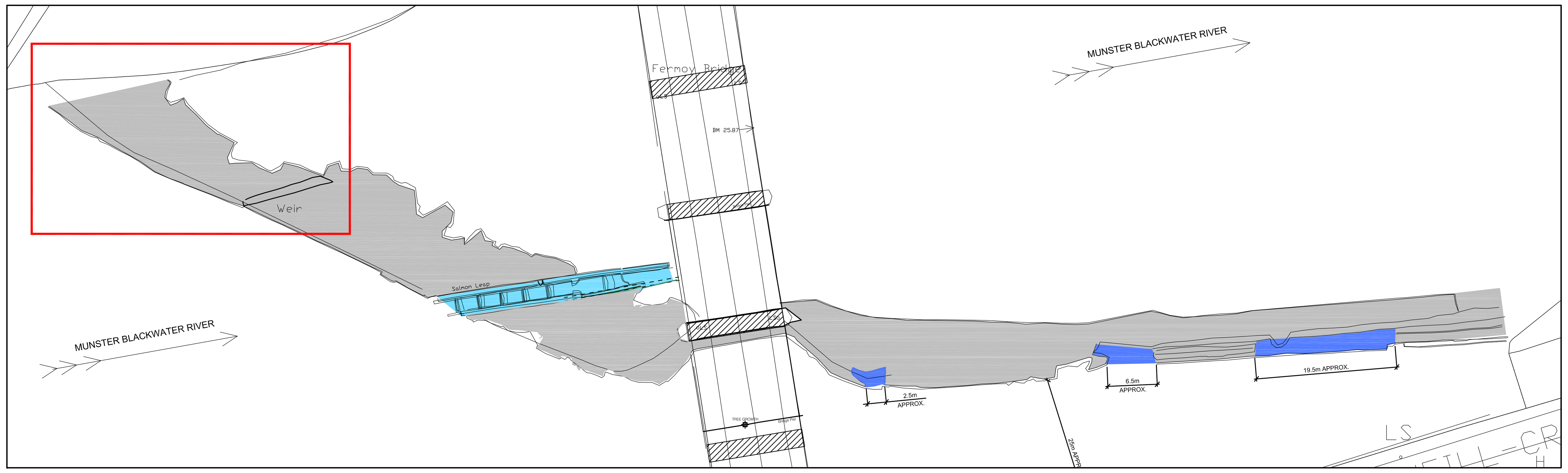
SCALE: 1:300 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0073

REV: C01



1/0074 EXISTING WEIR LAYOUT - AREA 1
SCALE: 1:100



2/0074 KEYPLAN - AREA 1
SCALE: 1:500

A/0074 VOIDS UNDER WEIR CREST

B/0074 MORTAR AND FINES WASHED OUT OF JOINTS IN MASONRY WEIR WALLS

C/0074 LARGE VOID AT THE BASE OF THE DOWNSTREAM WEIR APRON

D/0074 CONCRETE APRON OF WEIR HAS DISINTEGRATED AND WASHED AWAY IN PLACES

NOTES:

1. COMMENTS AND PHOTOGRAPHS ON THE CONDITION OF THE WEIR ARE BASED ON A VISUAL INSPECTION OF THE WEIR ON 15th AUGUST 2018. NO OPENING UP WORKS OF ANY KIND WERE UNDERTAKEN DURING THE VISUAL INSPECTION.

REV	SUIT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

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CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION

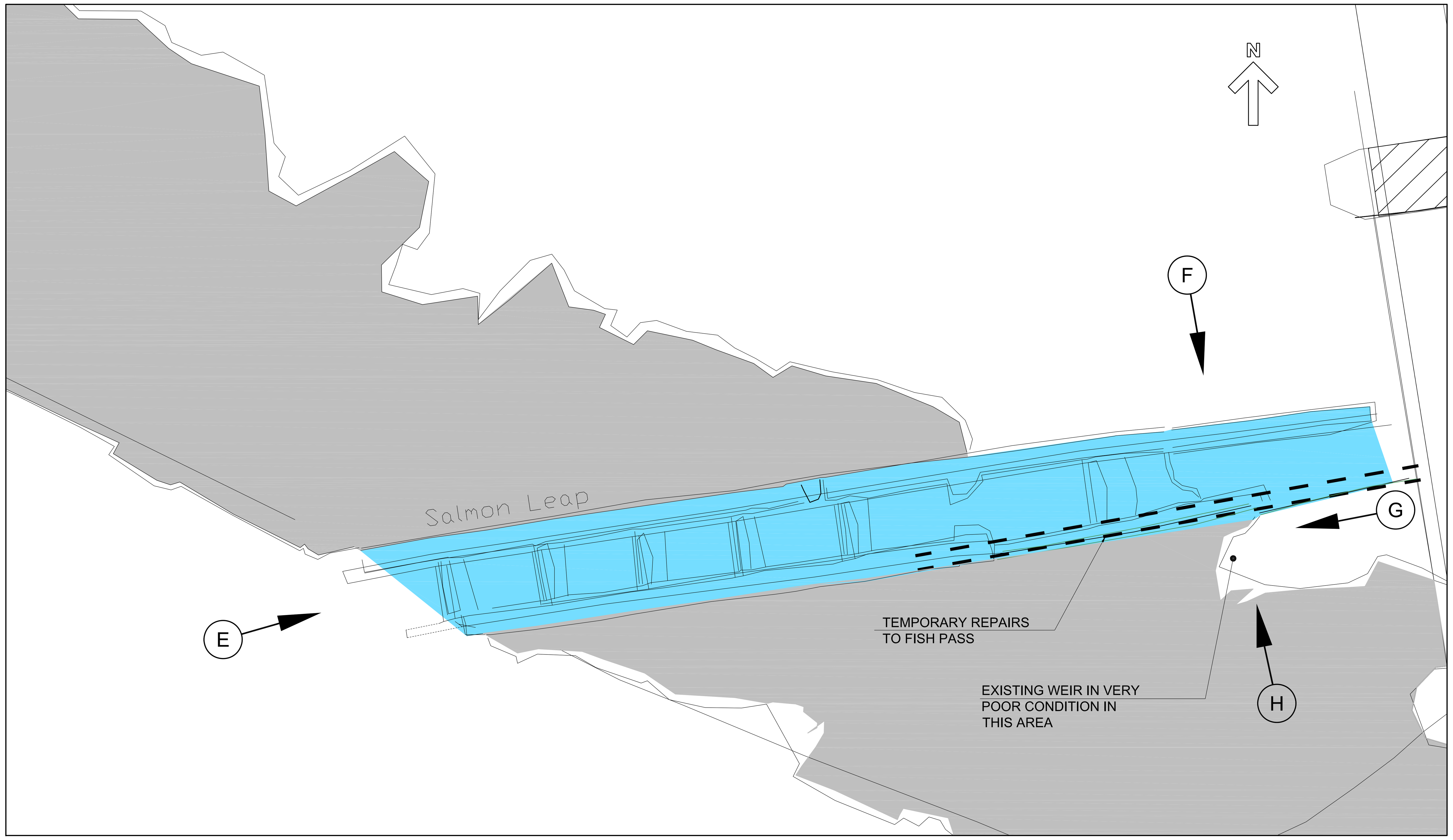
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: EXISTING WEIR CONDITION AREA 1

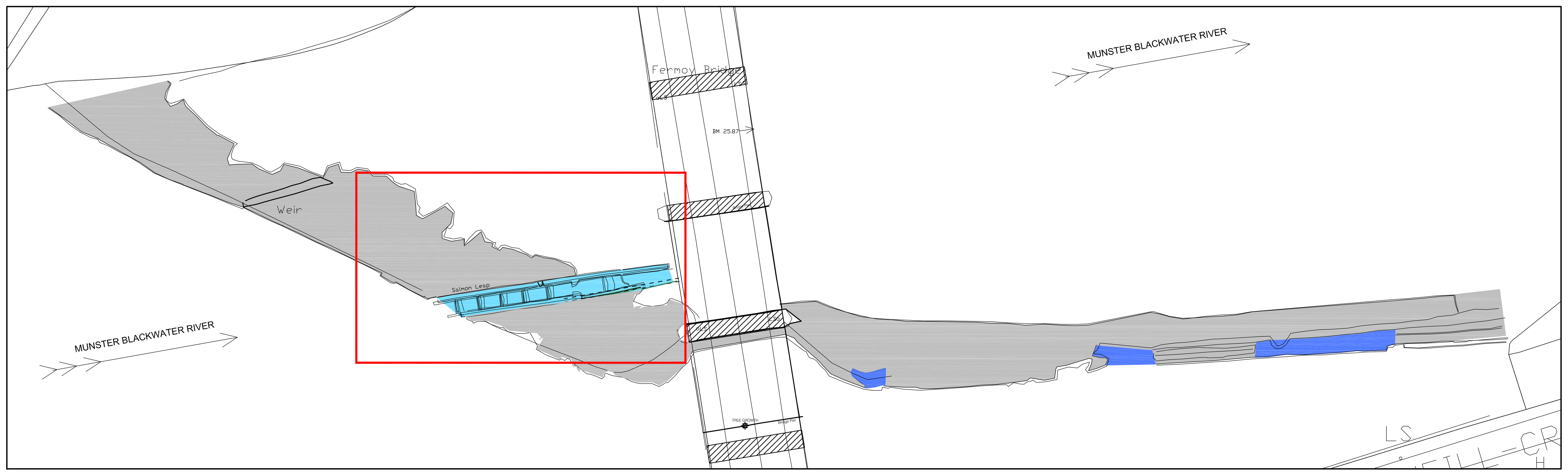
SCALE: 1:100 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0074

REV: C01



1 / 0075 EXISTING WEIR LAYOUT - AREA 2
SCALE: 1:100



2 / 0075 KEYPLAN - AREA 2
SCALE: 1:500

E / 0075 VIEW OF UPSTREAM END OF FISH PASS

F / 0075 VIEW OF DAMAGE TO FISH PASS WALL

G / 0075 WEIR APRON HAS DISINTEGRATED AND WASHED AWAY

H / 0075 VIEW OF TEMPORARY REPAIRS TO FISH PASS AND DISLODGED MATERIAL FROM WEIR

NOTES:

1. COMMENTS AND PHOTOGRAPHS ON THE CONDITION OF THE WEIR ARE BASED ON A VISUAL INSPECTION OF THE WEIR ON 15th AUGUST 2018. NO OPENING UP WORKS OF ANY KIND WERE UNDERTAKEN DURING THE VISUAL INSPECTION.

REV	SUIT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY: LC | REVIEWED BY: MV | APPROVED BY: DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION

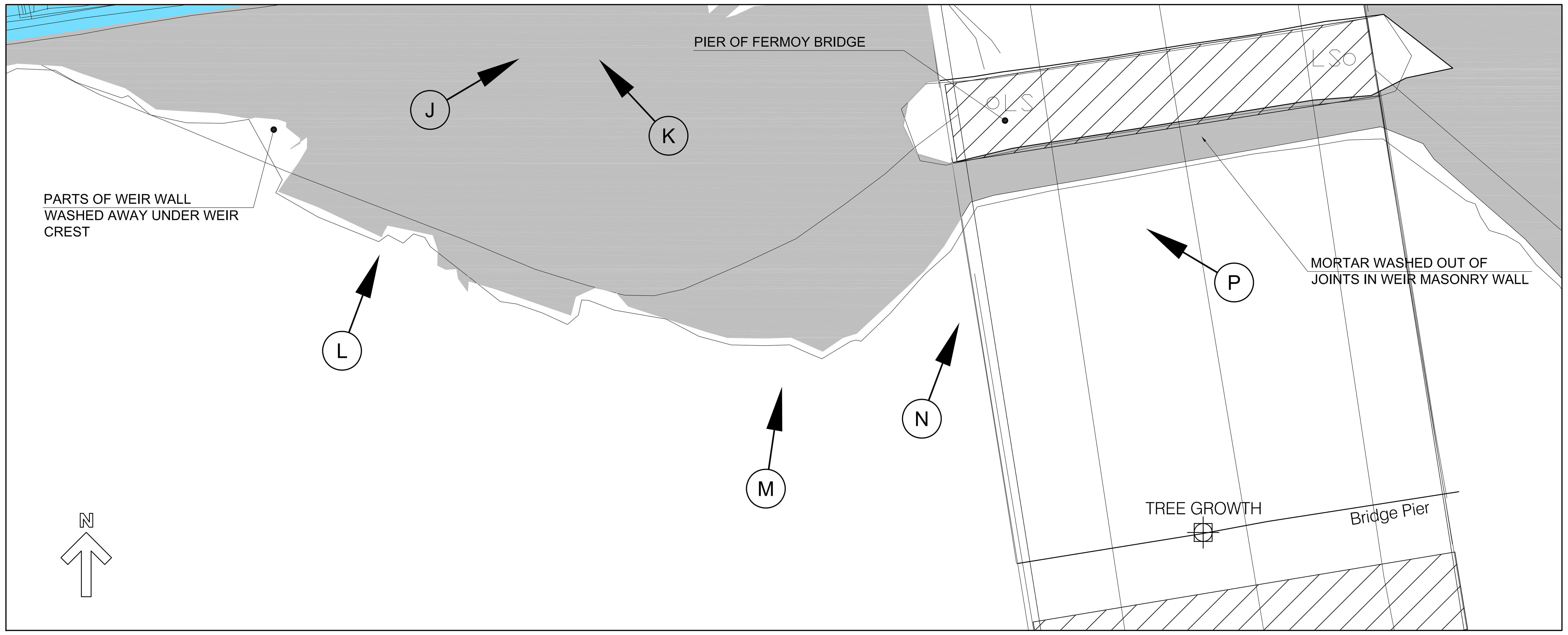
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: EXISTING WEIR CONDITION AREA 2

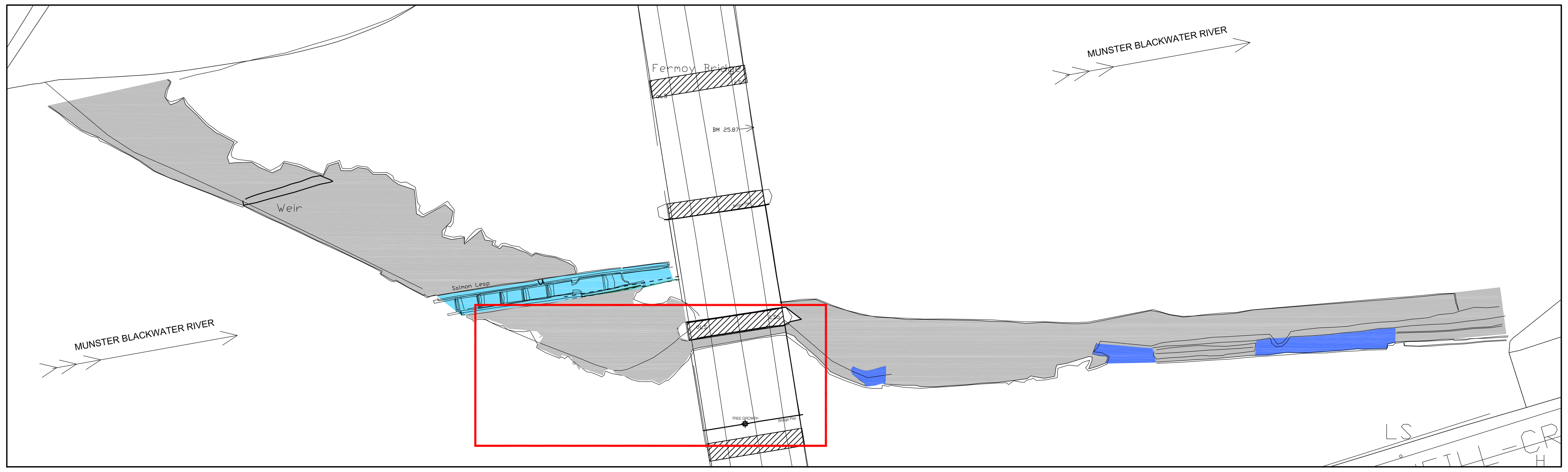
SCALE: 1:100 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0075

REV: C01



1/0076 EXISTING WEIR LAYOUT - AREA 3
SCALE: 1:100



2/0076 KEYPLAN - AREA 3
SCALE: 1:500

M/0076 PART OF WEIR WALL WASHED AWAY UNDER WEIR CREST

N/0076 MORTAR AND FINES WASHED OUT OF MASONRY WEIR WALL ADJACENT TO FERMOY BRIDGE

P/0076 MORTAR AND FINES WASHED OUT OF MASONRY WEIR WALL ADJACENT TO FERMOY BRIDGE

J/0076 WEIR APRON DISINTEGRATED AND WASHED AWAY AT JUNCTION WITH FISH PASS

K/0076 WEIR APRON DISINTEGRATED AND WASHED AWAY AT JUNCTION WITH FISH PASS

L/0076 PART OF WEIR WALL WASHED AWAY UNDER WEIR CREST

NOTES:

1. COMMENTS AND PHOTOGRAPHS ON THE CONDITION OF THE WEIR ARE BASED ON A VISUAL INSPECTION OF THE WEIR ON 15th AUGUST 2018. NO OPENING UP WORKS OF ANY KIND WERE UNDERTAKEN DURING THE VISUAL INSPECTION.

REV	SUIT	DESCRIPTION	DATE
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CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION

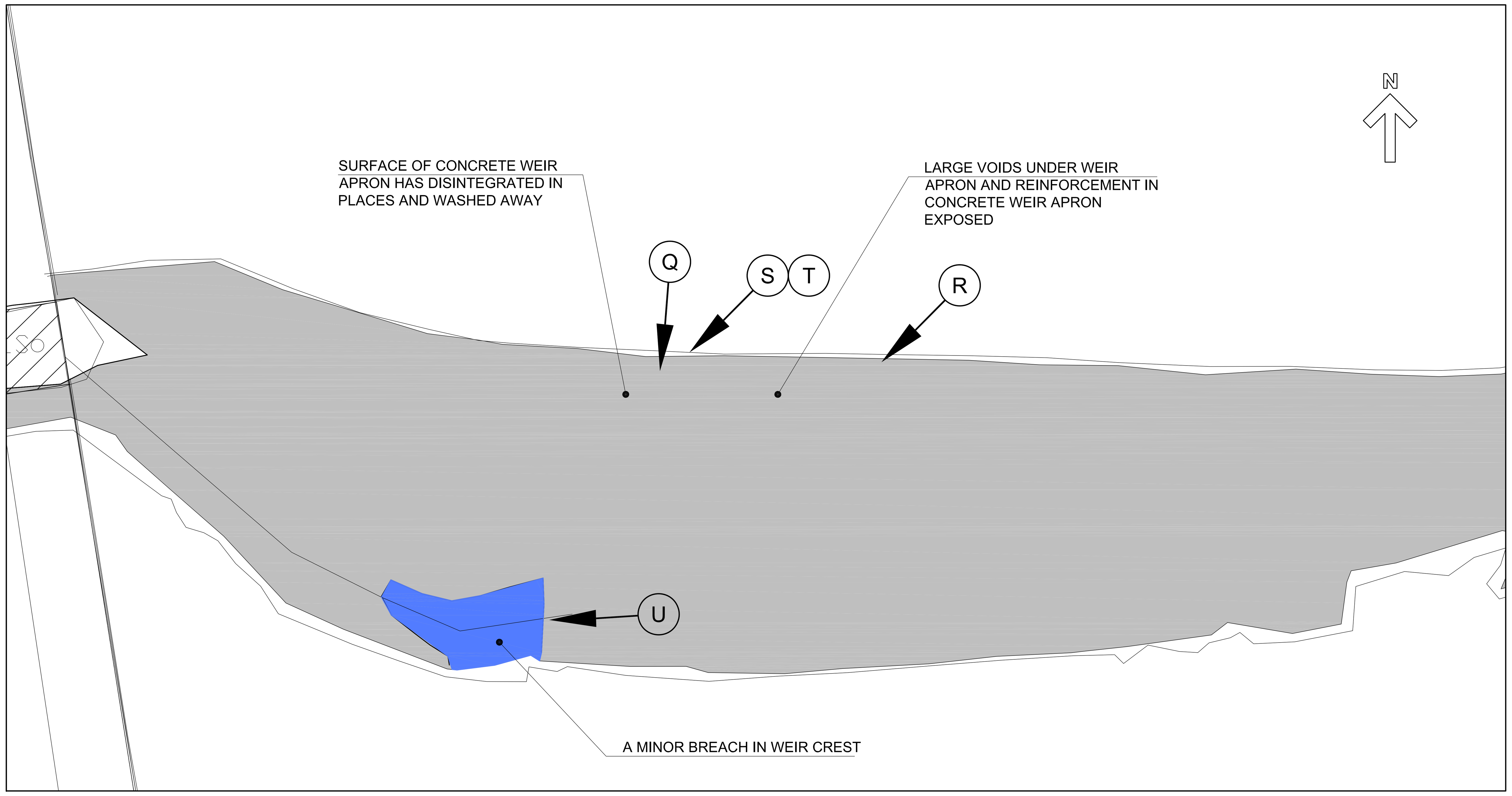
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: EXISTING WEIR CONDITION AREA 3

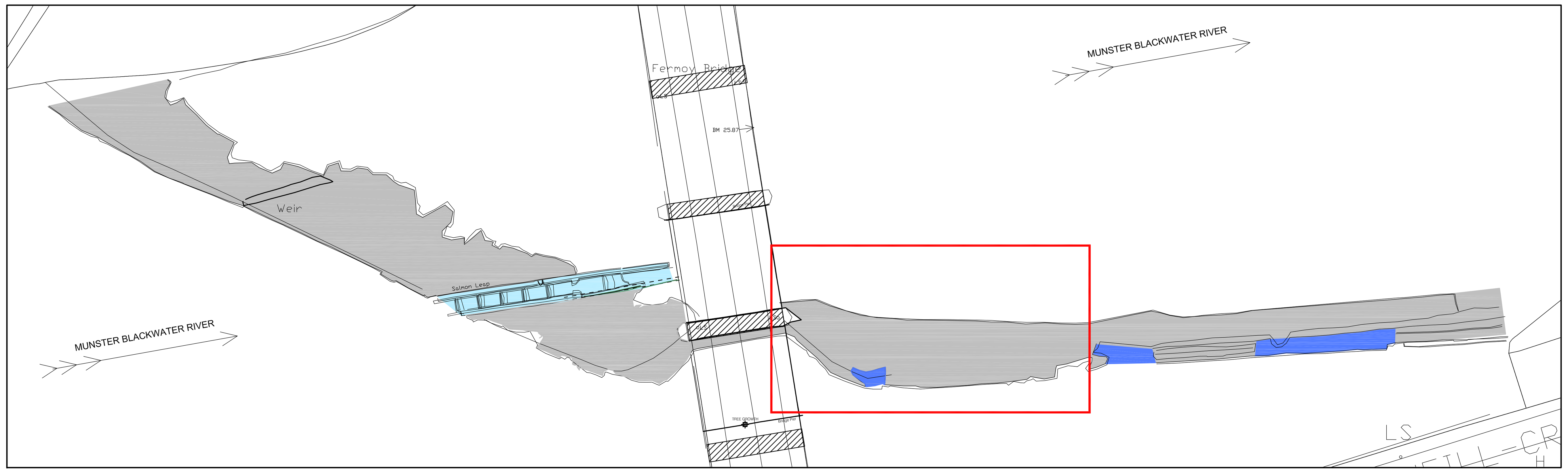
SCALE: 1:100 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0076

REV: C01

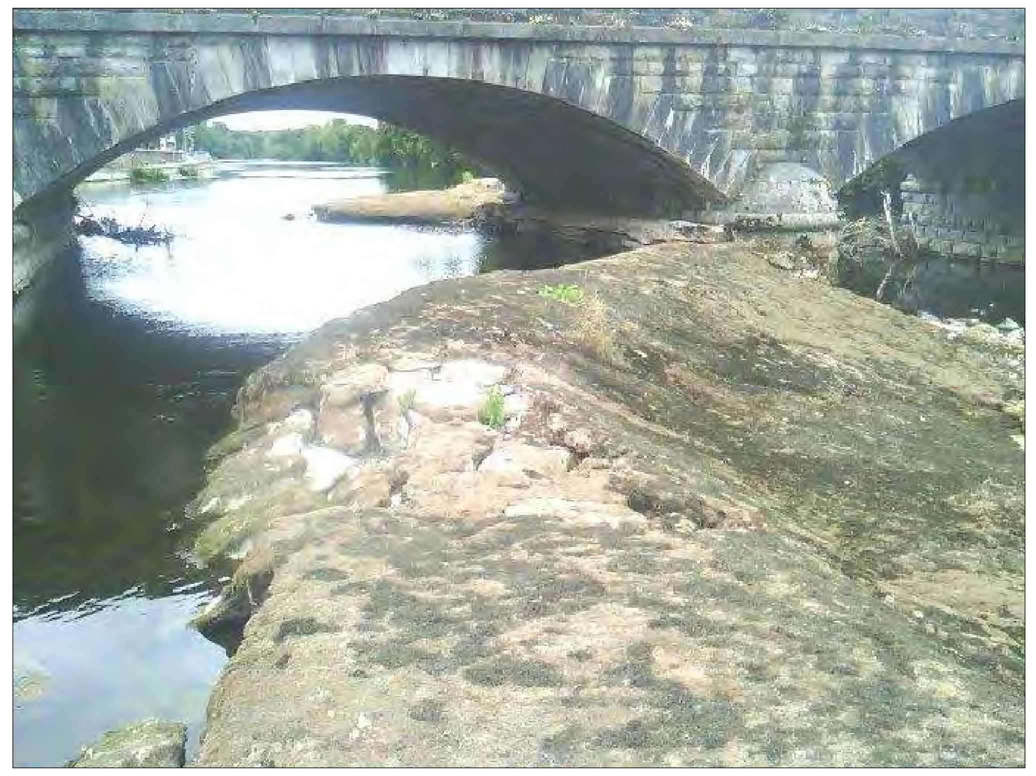


1 / 0077 EXISTING WEIR LAYOUT - AREA 4
SCALE: 1:100



2 / 0077 KEYPLAN - AREA 4
SCALE: 1:500

T / 0077 LARGE VOIDS UNDER CONCRETE WEIR APRON, REINFORCEMENT EXPOSED AND CORRODED



U / 0077 MINOR BREACH IN WEIR CREST

Q / 0077 SURFACE OF CONCRETE WEIR APRON HAS DISINTEGRATED IN PLACES

R / 0077 LARGE VOIDS UNDER CONCRETE WEIR APRON

S / 0077 REINFORCEMENT EXPOSED AND CORRODED UNDER WEIR APRON

NOTES:

1. COMMENTS AND PHOTOGRAPHS ON THE CONDITION OF THE WEIR ARE BASED ON A VISUAL INSPECTION OF THE WEIR ON 15th AUGUST 2018. NO OPENING UP WORKS OF ANY KIND WERE UNDERTAKEN DURING THE VISUAL INSPECTION.

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Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION

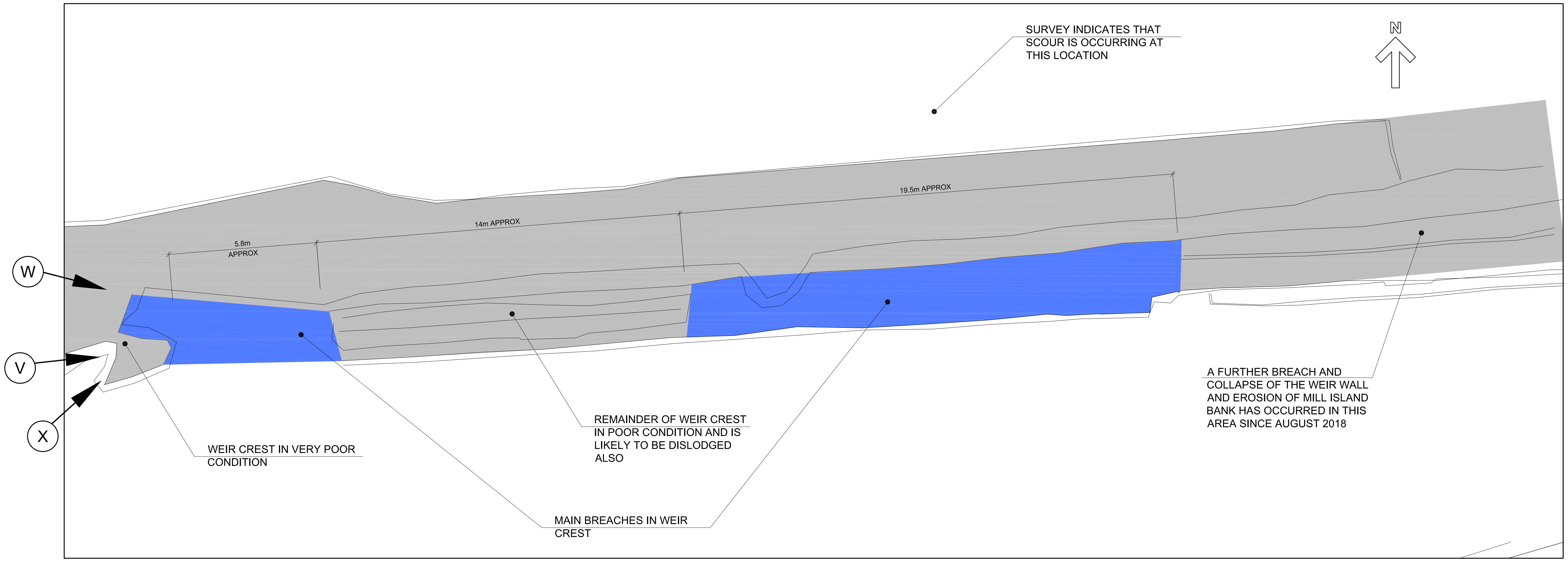
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: EXISTING WEIR CONDITION AREA 4

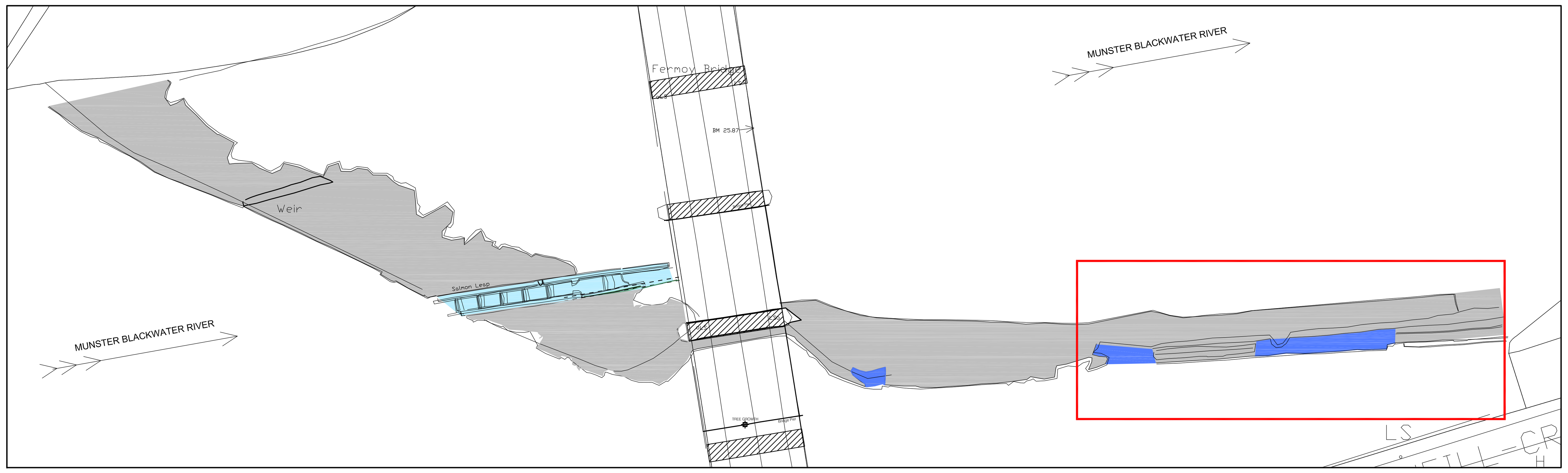
SCALE: 1:100 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0077

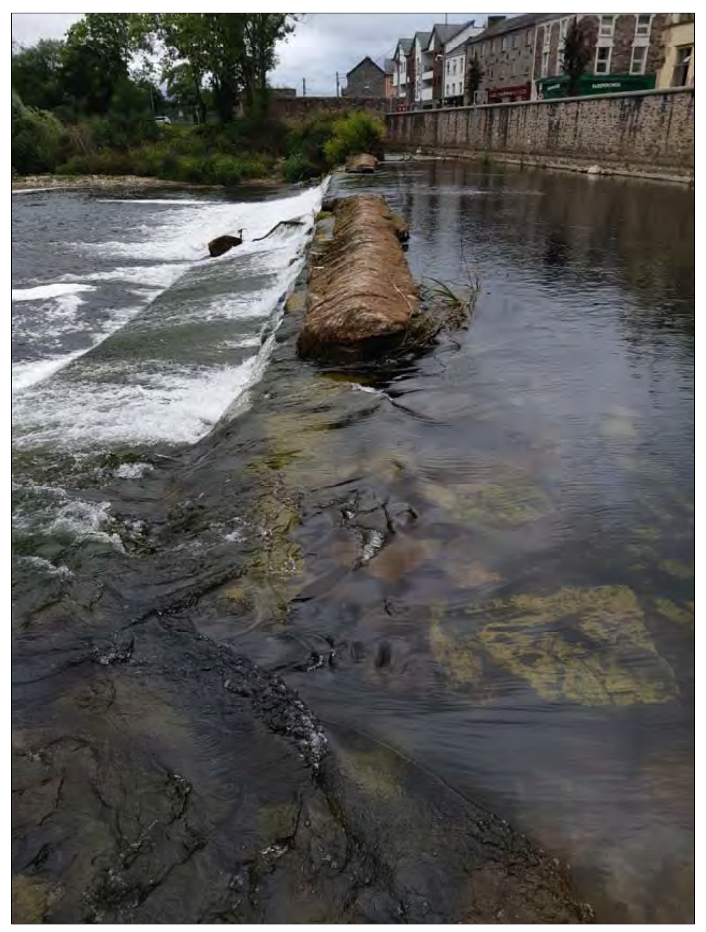
REV: C01



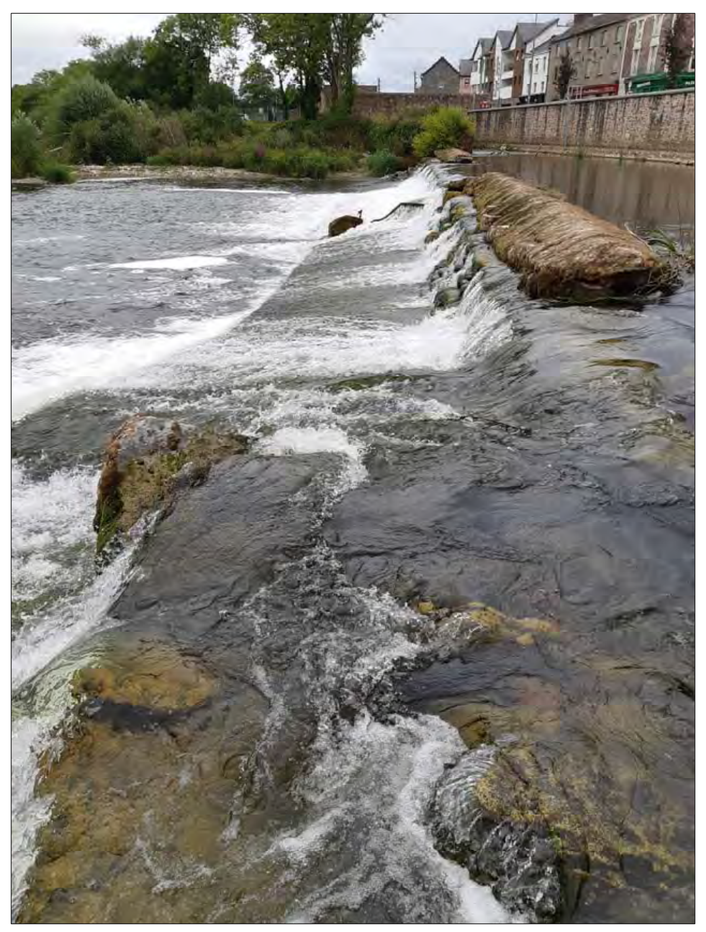
1 / 0078 EXISTING WEIR LAYOUT - AREA 5
SCALE: 1:100



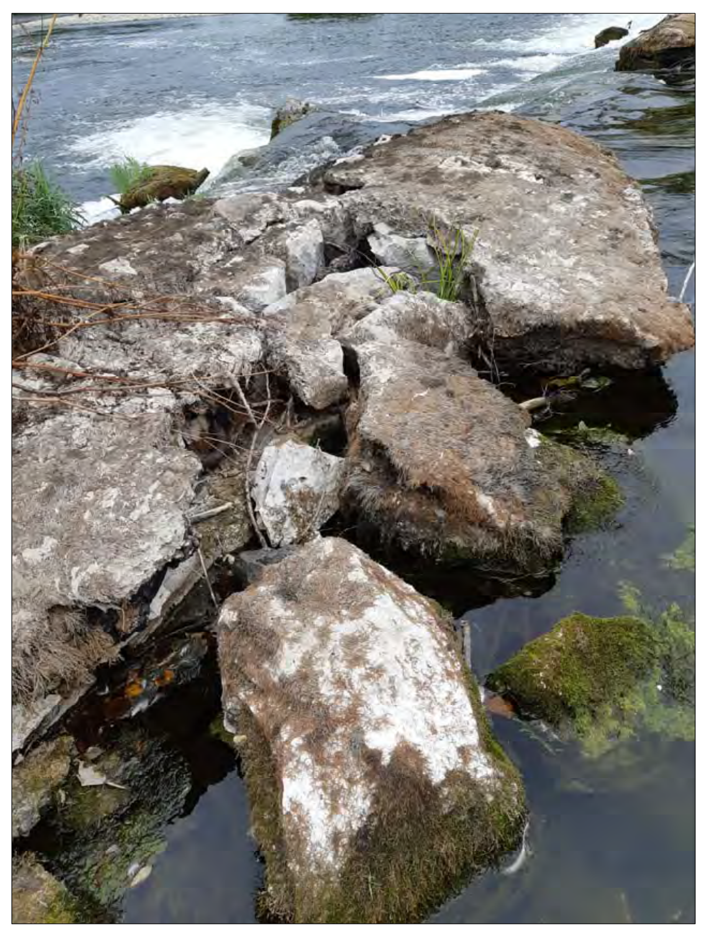
2 / 0078 KEYPLAN - AREA 5
SCALE: 1:500



V / 0078 VIEW OF WEIR CREST



W / 0078 VIEW OF WEIR CREST AND DOWNSTREAM APRON



X / 0078 VIEW OF WEIR CREST CONDITION

NOTES:

1. COMMENTS AND PHOTOGRAPHS ON THE CONDITION OF THE WEIR ARE BASED ON A VISUAL INSPECTION OF THE WEIR ON 15th AUGUST 2018. NO OPENING UP WORKS OF ANY KIND WERE UNDERTAKEN DURING THE VISUAL INSPECTION.

REV	SUIT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY: LC | REVIEWED BY: MV | APPROVED BY: DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION

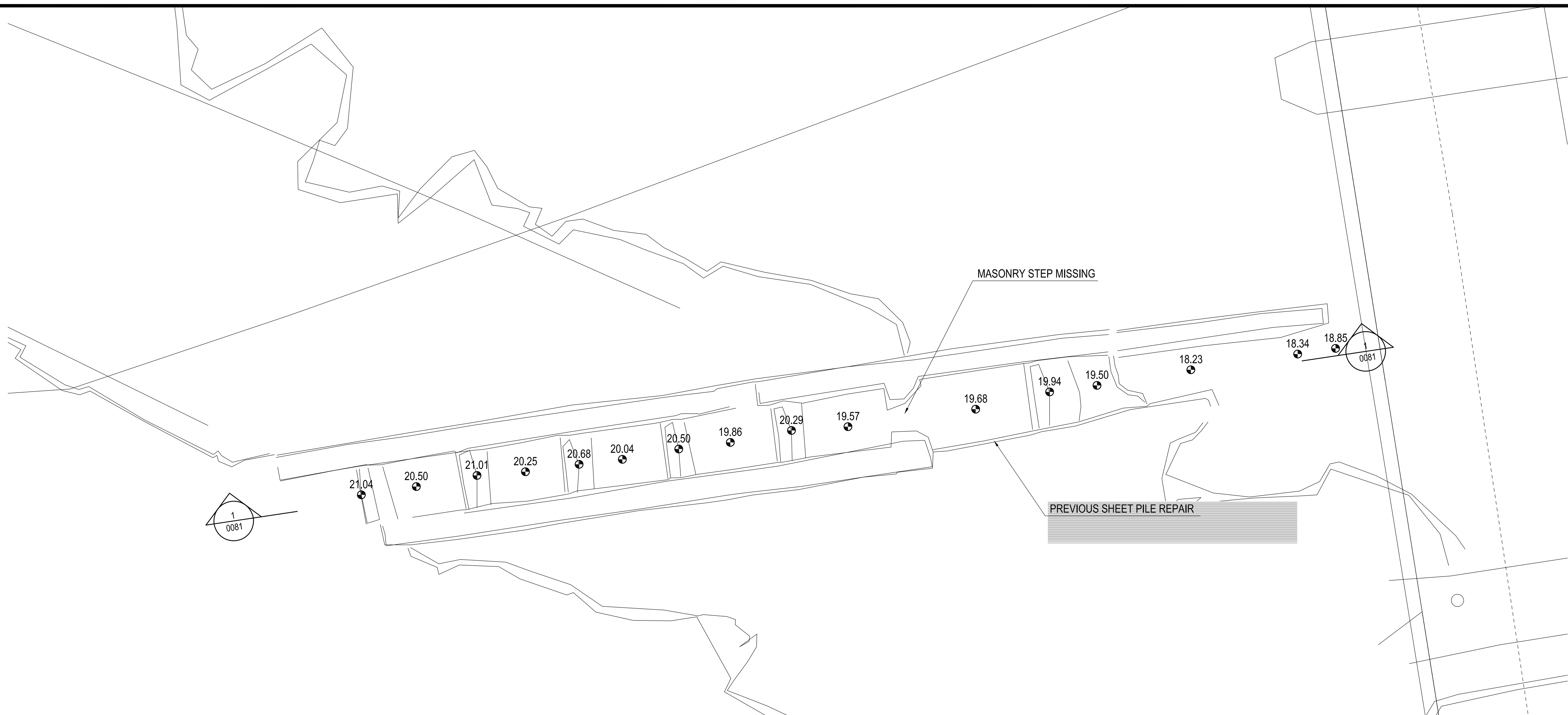
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: EXISTING WEIR CONDITION AREA 5

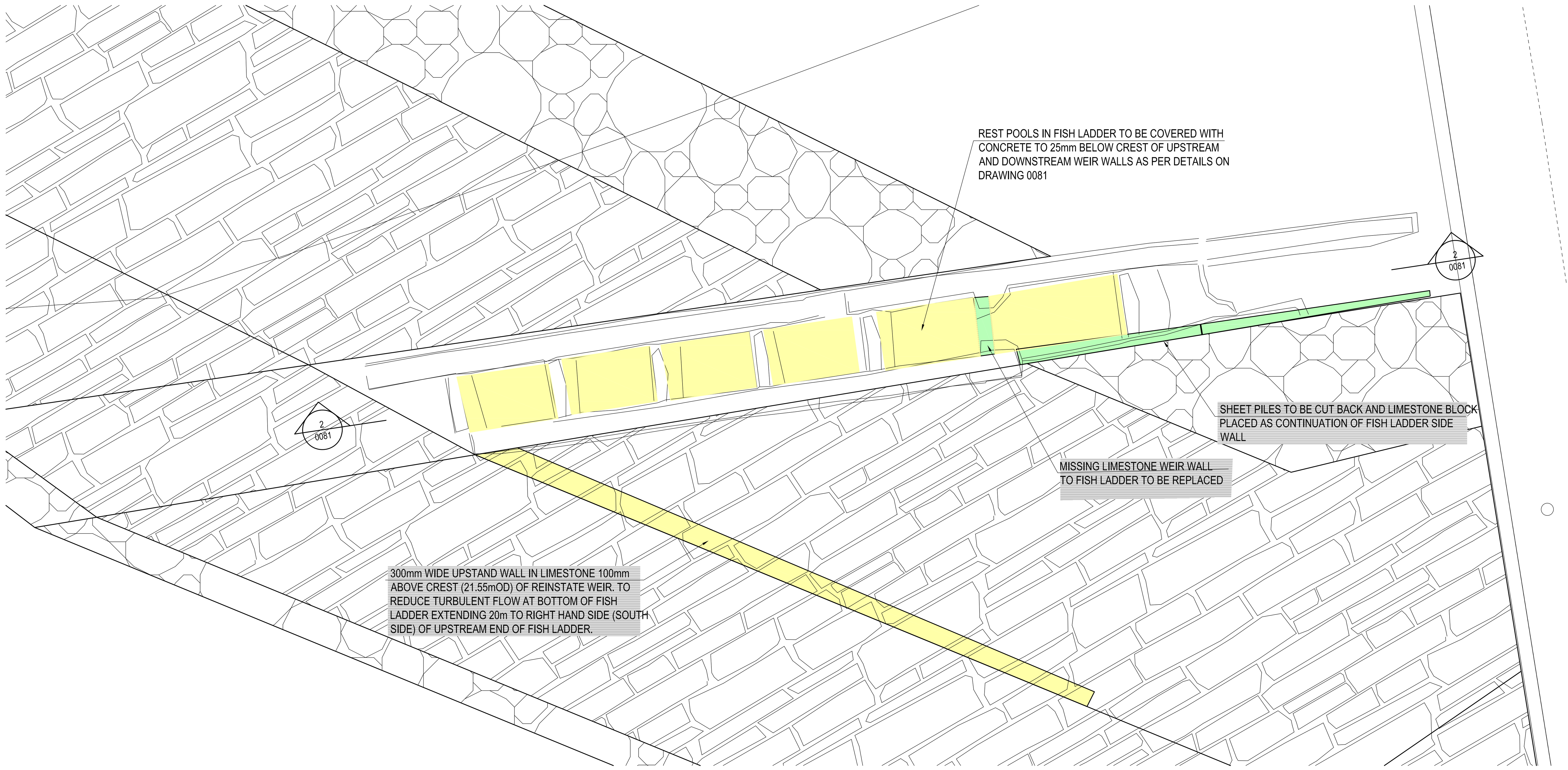
SCALE: 1:100 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0078

REV: C01



1
0079
PLAN OF EXISTING FISH LADDER
SCALE: 1:100



2
0079
PLAN OF PROPOSED WORKS TO EXISTING FISH LADDER
SCALE: 1:100

NOTES:

1. 1. FISH PASS REMEDIATION WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CONSERVATION ENGINEER'S RECOMMENDATIONS AND DETAILS SHOWN ON DRAWING 0081.
2. LAYOUT OF EXISTING FISH LADDER BASED ON MURPHY SURVEYS TOPOGRAPHICAL SURVEY COMPLETED AUGUST 2018.

NOTE:
DETAILS AND DIMENSIONS OF PROPOSED WORKS TO FISH PASS ARE TAKEN FROM INFORMATION SUPPLIED BY OTHERS AND ARE SUBJECT TO APPROVAL FROM INLAND FISHERIES IRELAND

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

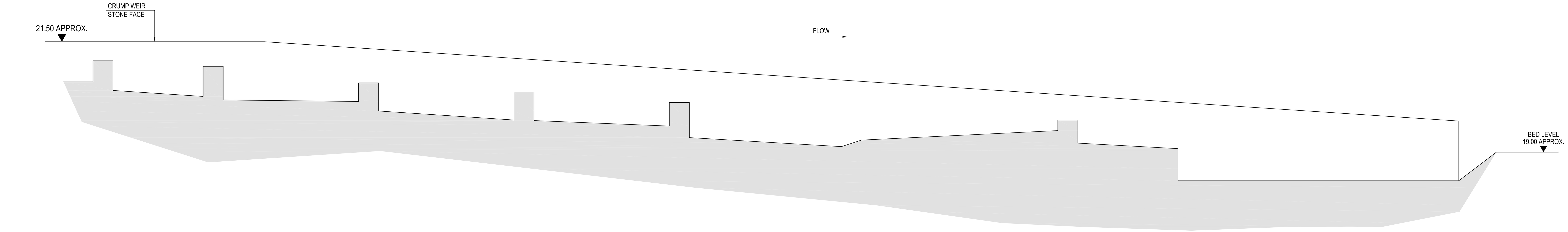
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: EXISTING FISH LADDER REMEDIATION PLAN

SCALE: 1:100 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0079

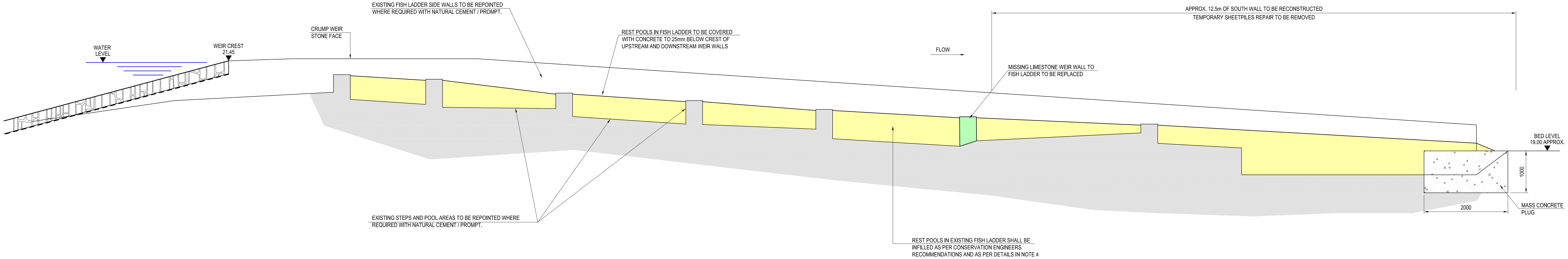
REV: C01



1
0081
EXISTING FISH LADDER SECTION
SCALE: 1:50

NOTES:

1. ALL WORKS CARRIED OUT IN THE RIVER AND TO THE FISH PASS TO BE AGREED WITH INLAND FISHERIES IRELAND PRIOR TO COMMENCEMENT OF THE WORKS.
2. WORKS IN THE RIVER WILL ONLY BE PERMITTED BETWEEN THE BEGINNING OF AUGUST TO MID SEPTEMBER IN ACCORDANCE WITH INLAND FISHERIES IRELAND GUIDELINES.
3. PROPOSED REMEDIAL WORK DETAILS AS PER CONSERVATION ENGINEER, TREVOR WOODS CONSULTING ENGINEERS, DETAILS.
4. COVERING
   DPM 1500 GAUGE TO BE LAID UP PASS INSIDE WALLS OVER BASE AND LAPPED MINIMUM 1m BETWEEN SHEETS / JOINTS.
   TYPE 6F FILL WITHIN 300mm EXISTING CAPPING.
   150mm CLAUSE 804 BLINDED WITH LEAN MIX CONCRETE.
   150mm CONCRETE SLAB (FIBRE MESH POLYPROPYLENE FIBRES)
   SURFACE TO BE STAMPED WITH RANDOM STONE PATTERN.
5. ALL LEVELS AS PER MURPHY SURVEYS 2018 SURVEY OF WEIR STRUCTURE.
6. EXISTING FISH LADDER SHALL BE INFILLED IN ORDER TO AVOID WHITE WATER CREATED BY THE STEPS IN THE LADDER ATTRACTING FISH FROM DOWNSTREAM OF THE WEIR.



2
0081
PROPOSED FISH LADDER SECTION
SCALE: 1:50

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY: LC | REVIEWED BY: MV | APPROVED BY: DC

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CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: EXISTING FISH LADDER REMEDIATION DETAILS - SHEET 2

SCALE: AS SHOWN (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
190080-TJOC-PL-XX-DR-C-0081

REV: C01

0 7.5 15 22.5 30 45 60 75m
1:750

LEGEND

- FOUL SEWER
- SURFACE WATER SEWER
- COMBINED SEWER
- CULVERT SEWER
- RISING MAIN
- WATERMAIN

MAP REPRODUCED BY PERMISSION OF
ORDNANCE SURVEY IRELAND
(CORK CCMA 9802)

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR REVIEW AND COMMENT

CHECKED BY: LC
REVIEWED BY: MV
APPROVED BY: DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: EXISTING SERVICES

SCALE: 1:750 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0082

REV: P01

0 5 10 15 20 30 40 50m
1:500

LEGEND:

EXISTING TREES

EXISTING TREES TO BE REMOVED

ROOT PROTECTION AREA

NOTES:

1. TREES LOCATIONS ARE BASED ON GEODATA 2020 TOPOGRAPHICAL SURVEY
2. DRAWING RECORDS TREES AND GROUPS OF TREES IDENTIFIED IN THE TREE SURVEY UNDERTAKEN BY MARK DONNELLY BSC ARBORIST IN 2021
3. TREE SURVEY DRAWING SHALL BE READ IN CONJUNCITON WITH THE ECOLOGISTS ECOLOGICAL IMPACT ASSESSMENT FOR THE PROJECT.

MAP REPRODUCED BY PERMISSION OF ORDNANCE SURVEY IRELAND (CORK CCMA 9802)

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY: LC | REVIEWED BY: MV | APPROVED BY: DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

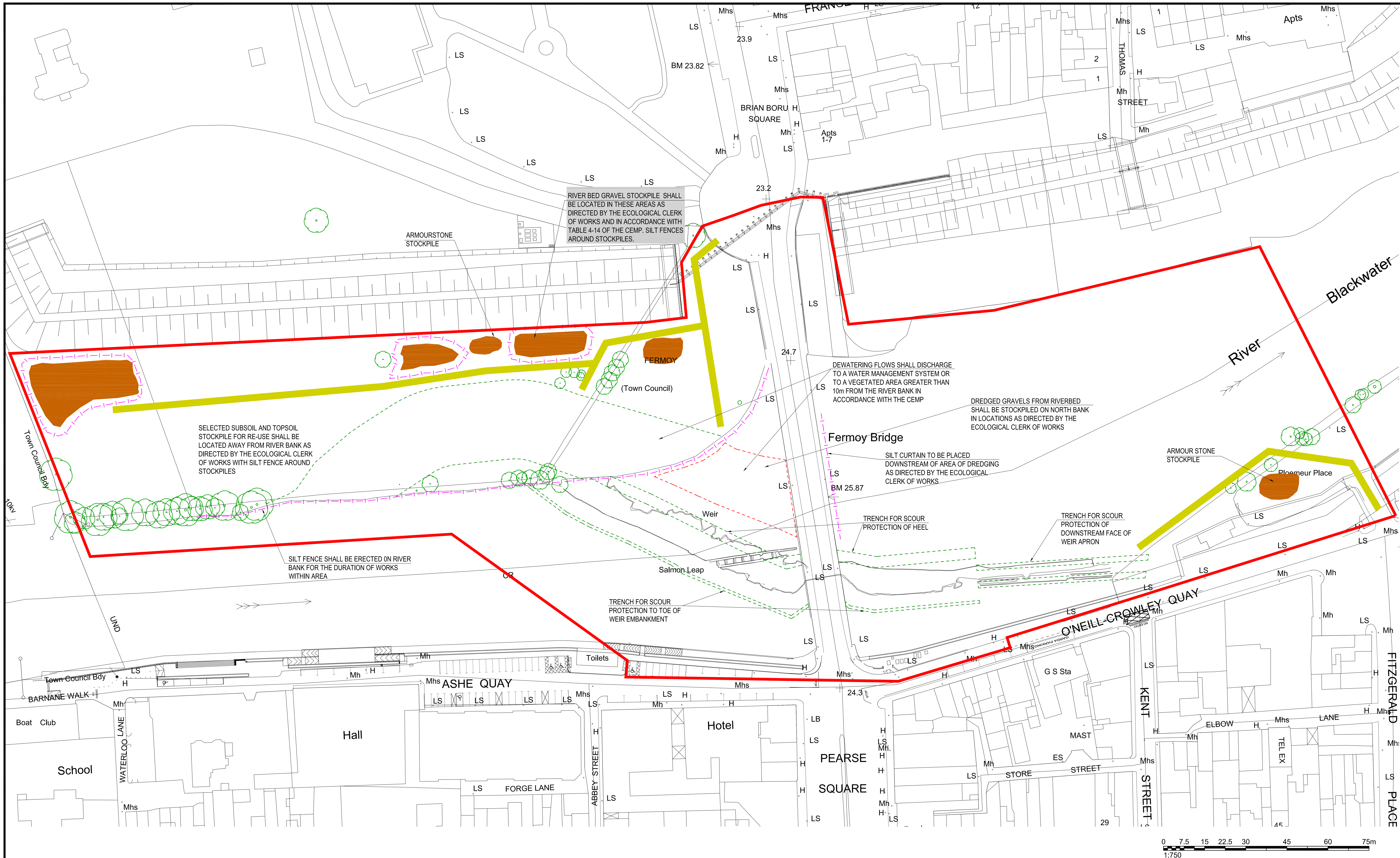
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: TREE PROTECTION PLAN

SCALE: 1:500 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0083

REV: C01



NOTES:

1. WHERE FEASIBLE SOIL EXCAVATION SHALL TAKE PLACE DURING DRY PERIODS AND UNDERTAKEN WITH EXCAVATORS AND DUMP TRUCKS.
2. TOP SOIL AND SUBSOIL SHALL NOT BE MIXED TOGETHER.
3. STOCKPILES SHALL BE GRADED TO <1:4 PROFILE. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
4. SURFACE WATER MANAGEMENT SHALL COMPLY WITH MITIGATION MEASURES IDENTIFIED IN TABLE 4-5 OF THE CEMP.
5. SILT FENCES SHALL BE ERECTED AROUND EACH STOCKPILE.
6. RIVERBED GRAVELS SELECTED FOR RE-USE IN THE WORKS SHALL BE STOCKPILED IN A BUNDED AREA AS DIRECTED BY THE ECOLOGICAL CLERK OF WORKS.
7. STOCKPILES SHALL NOT ENCROACH ON ROOT PROTECTION AREAS OF ANY TREES.
8. THE LOCATIONS OF STOCKPILES SHOWN HERE ARE INDICATIVE. THE CONTRACTOR SHALL DEVELOP MATERIALS STORAGE PROPOSALS IN ACCORDANCE WITH THE CEMP AND TO THE SATISFACTION OF THE ECOLOGICAL CLERK OF WORKS.
9. STOCKPILING OF MATERIALS SHALL NOT BE PERMITTED WITHIN THE MAIN CHANNEL OF THE BLACKWATER APART FROM LOCAL STOCKPILES OF MATERIAL REQUIRED FOR THE REMEDIATION OF THE WEIR.

LEGEND:

- PROPOSED SITE BOUNDARY
- OUTLINE OF PROPOSED EXCAVATION
- AREA OF DREDGING
- SILT FENCE
- EXISTING TREES TO BE RETAINED
- CONSTRUCTION ACCESS ROUTES

MAP REPRODUCED BY PERMISSION OF ORDNANCE SURVEY IRELAND (CORK CCMA 9802)

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: CONSTRUCTION SPOIL MANAGEMENT

SCALE: 1:750 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0084

REV: C01

0 7.5 15 22.5 30 45 60 75m
1:750

LEGEND:

SITE COMPOUND	
SATELLITE COMPOUND	
SITE BOUNDARY	
CONSTRUCTION ACCESS ROUTES	

MAP REPRODUCED BY PERMISSION OF ORDNANCE SURVEY IRELAND (CORK CCMA 9802)

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY: LC | REVIEWED BY: MV | APPROVED BY: DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: SITE COMPOUNDS

SCALE: 1:750 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0085

REV: C01

NOTES

1. SEQUENCE OF CONSTRUCTION OPERATIONS SHALL BE AS AGREED WITH IFI AND SHALL BE IN COMPLIANCE WITH THE CEMP
2. INSTREAM WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH FISHERIES IRELAND GUIDELINES FOR INSTREAM WORKS
3. STAGE 1 WORKS ON THE NORTH BANK OF THE RIVER TO CONSTRUCT THE FISH BYPASS CHANNEL SHALL PROCEED AS AN OFF LINE CONSTRUCTION. THE TIES INS OF THE FISH BYPASS CHANNEL TO THE RIVER SHALL BE COMPLETED AFTER THE STAGE 2 WORKS, TO REMEDIATE THE WEIR UPSTREAM OF FERMOY BRIDGE, ARE COMPLETE.
4. 4. STAGE 3 WORKS TO REMEDIATE THE WEIR DOWNSTREAM OF THE BRIDGE SHALL NOT COMMENCE PRIOR TO COMPLETION OF STAGE 2, WEIR REMEDIATION WORKS UPSTREAM OF THE BRIDGE, AND COMPLETION OF FISH BYPASS CHANNEL TIE INS TO RIVER BLACKWATER

LEGEND:

- STAGE 1 - WORKS ON NORTH BANK OF RIVER FOR BYPASS CHANNEL
- STAGE 2 - IN STREAM WORKS UPSTREAM OF BRIDGE
- STAGE 3 - IN STREAM WORKS DOWNSTREAM OF BRIDGE

MAP REPRODUCED BY PERMISSION OF ORDNANCE SURVEY IRELAND (CORK CCMA 9802)

REV	STAT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

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Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

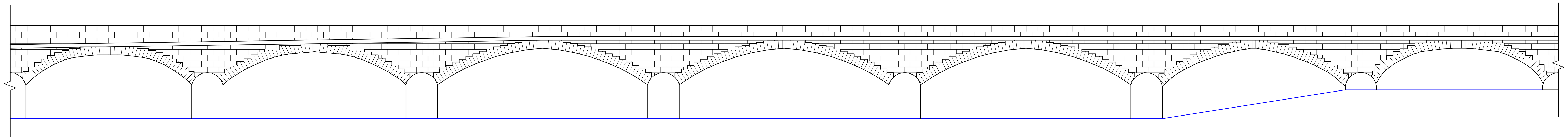
PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL

CLIENT: CORK COUNTY COUNCIL

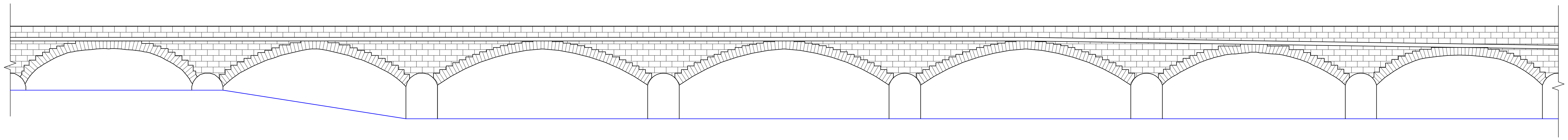
DRAWING TITLE: INSTREAM WORKS PHASING

SCALE: 1:750 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0086 REV: C01



1
0087
EAST ELEVATION
SCALE: 1:150



2
0087
WEST ELEVATION
SCALE: 1:150

REV	SUIT	DESCRIPTION	DATE
C01	AP	ISSUED FOR PLANNING	02.06.2022

DRAWING STATUS: ISSUED FOR PLANNING

CHECKED BY:	REVIEWED BY:	APPROVED BY:
LC	MV	DC

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS
CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION

CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: FERMOY BRIDGE ELEVATIONS

SCALE: 1:150 (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
19011-TJOC-PL-XX-DR-C-0087

REV: C01

TJ O'CONNOR & ASSOCIATES CONSULTING ENGINEERS

Corrig House, Corrig Road,
Sandyford, Dublin 18

Tel: (01) 295 2321 Email: tjoc@tjoc.ie Web: www.tjoc.ie

ISSUE SHEET

CIVIL DRAWINGS

Project Ref: **FERMOY WEIR**

Project No. **19011**

Client:

Ref	Files issued to	Company	Contact	02-06-2022	03-06-2022
			Date of Transmittal →		
			E = Email C = CDE 1,2 etc. = Hard Copies		
1	**Client**	Cork County Council		E	
2	**An Bord Pleanala**				E
3	**M & E Engineer**				
4	**Quantity Surveyor**				
5	**Landscape Architect**	Doyle & O'Troithigh	Dave O'Sullivan		
6	**Main Contractor**				
7	**Ecologist**	Dixon Brosnan	Carl Dixon		
8	**CFD Sub-Consultant**	RHDHV	Mattijs Bos		
9	**Statutory Body**	IFI	Andrew Gillespie		
10	**Planning Consultant**	Macutcheon Halley	Tom Halley		

Status Codes in accordance with Table NA.1 of BS EN ISO 19650-:2018
Shared
S1 Coordination; S2 Information; S3 Review & Comment; S4 Stage Approval
Published
An Authorised & Accepted where n= P for Planning Issue, n=T for Tender Issue and n=C for Construction Issue

File Name	File Title	Current Revision	AP (02-06-2022)	AP (03-06-2022)
19011-TJOC-PL-XX-DR-C-0048	SITE_LOCATION	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0049	SITE LAYOUT PLAN	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0050	AERIAL VIEW	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0051	EXISTING SITE PLAN	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0052	KEY_PLAN	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0053	PROPOSED FISH BYPASS - PLAN	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0054	FISH PASS LONG SECTION	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0055	FISH_PASS_SECTIONS	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0058	WEIR REMEDIATION - PLAN OF EXISTING WEIR	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0059	PROPOSED WEIR REMEDIATION - EX. SECTIONS	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0060	WEIR REMEDIATION - PLAN OF PROPOSED WEIR	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0061	WEIR REMEDIATION - PROPOSED SECTIONS	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0062	WEIR REMEDIATION - PROPOSED SECTIONS	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0063	WEIR REMEDIATION - PROPOSED SECTIONS	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0073	EXISTING WEIR CONDITION	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0074	EXISTING WEIR CONDITION - AREA 1	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0075	EXISTING WEIR CONDITION - AREA 2	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0076	EXISTING WEIR CONDITION - AREA 3	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0077	EXISTING WEIR CONDITION - AREA 4	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0078	EXISTING WEIR CONDITION - AREA 5	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0079	EXISTING FISH LADDER PLAN	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0081	EXISTING FISH LADDER DETAILS	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0082	EXISTING SERVICES	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0083	TREE PROTECTION	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0084	SPOIL MANAGEMENT	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0085	SITE COMPOUNDS	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0086	INSTREAM WORKS PHASING	C01	C01	C01
19011-TJOC-PL-XX-DR-C-0087	FERMOY BRIDGE ELEVATIONS	C01	C01	C01

TJ O'CONNOR & ASSOCIATES
CONSULTING ENGINEERS

Corrig House, Corrig Road,
Sandyford, Dublin 18

Tel: (01) 295 2321 Email: tjoc@tjoc.ie Web: www.tjoc.ie

ISSUE SHEET

CIVIL DRAWINGS

Project Ref: **FERMOY WEIR**

Project No. **19011**

Client:

Ref	Files issued to	Company	Contact	Date of Transmittal	02-06-2022	03-06-2022
					E = Email C = CDE 1,2 etc. = Hard Copies	
1	**Client**	Cork County Council			E	
2	**An Bord Pleanala**					E
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				Current Revision	AP	AP

Status Codes in accordance with Table NA.1 of BS EN ISO 19650-:2018

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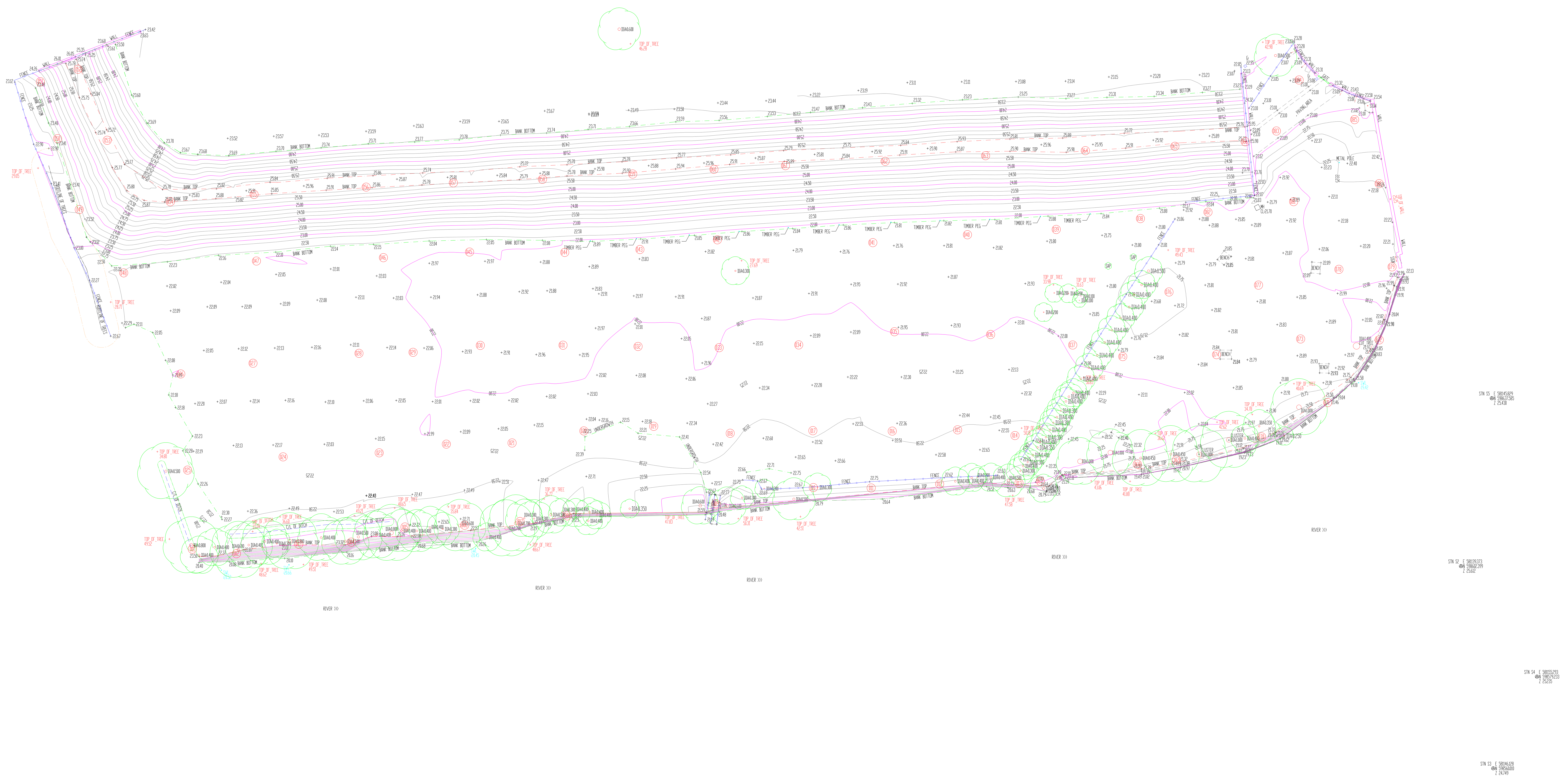
File Name	File Title	



Topographical Survey
Scale 1:500

ITM NORTH

SURVEY NOTES
1. ALL LEVELS ARE RELATED TO MALIN HEAD DATUM (OSGM15)
2. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
3. ANY DESCRIPENCIES IN THE SURVEY SHOULD BE REPORED TO GEODATA SURVEYING LTD IMMEDIATELY.
4. DO NOT SCALE, THIS SHALL ONLY BE PERMITTED IN DIGITAL FORM.
5. GRID IS 20m X 20m

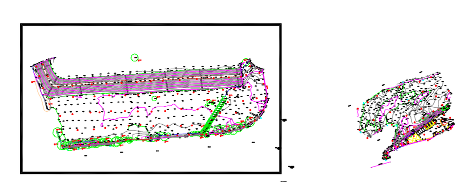
0 10m 20m 30m
1:500

SYMBOLS

+0.00	SPOT LEVEL	G	GULLY	AV	AIR VALVE	AJ	ARMSTRONG JUNCTION		GATE	O/H ESB	OVERHEAD ESB LINE	SIGN	SIGN	UB	SOFFIT BEAM	+RIDGE	RIDGE LEVEL		FOUL SEWER		UNIDENTIFIED EM SIGNAL		TRAFFIC
	CONTROL SURVEY STATION	WM	WATER METER		FIRE HYDRANT	LP	LAMP POST	SWL:0.00	SURFACE WATER LEVEL	O/H TEL	OVERHEAD TEL LINE	DIA = 0.8m	TREE ACTUAL SPREAD	CL	SOFFIT CEILING	+EAVES	SOFFIT LEVEL		STORM SEWER		ELECTRICAL CABLE		TRENCH
MH CL	MANHOLE COVER	SV	SLUICE VALVE	TEL	TEL INSP CHAMBER	TP	TELECOM POLE	+BL:0.00	BED LEVEL WATERCOURSE	TL	TELECOM POLE	000	TREE TAG NO.	HEAD	HEAD TO FFL	FFL:100	FINISH FLOOR LEVEL		COMBINED SEWER	PL	PUBLIC LIGHTING		COMBINED SEWER
UL	UTILITY INSP CHAMBER	SC	STOP COCK	MP	MINI PILLAR	EP	ESB POLE	+IL	INVERT LEVEL	+TOP	TOP TAG	BL	BOLLARD	WB	WINDOW BOARD TO FFL	+200	PEG REF NUMBER	ESB	ESB BOX		UNIDENTIFIED GPR	ESB	ESB BOX

COORDINATE SYSTEM
ITM-Irish Transverse Mercator

KEY PLAN



REVISION	DATE	DESCRIPTION	DRN BY	CKD BY
02	04-06-20	PHOTOS AND TREES	ML	KOB
01	28-05-20	TOPOGRAPHICAL SURVEY	ML	KOB

RICS
SOCIETY OF CHARTERED SURVEYORS IRELAND

Geodata
Chartered Land Surveyors
47 Oliver Plunkett Street Bandon, Co Cork. P72 A443
Phone: (+353) (0)23 8852798 Fax: (+353) (0)23 8852799
Email: info@geodatasurveying.ie Website: www.geodatasurveying.ie

Client: TJ O'Connor 7 Associates
Project: Fermoy, Co Cork.
Title: Topographical Survey 2D
Scale: 1-500
Dwg. No: 20423-101
Date: 04-06-20
Sheet: A1

Topographical Survey
Scale 1:500

ITM NORTH

SURVEY NOTES
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0 10m 20m 30m
1:500

SYMBOLS

SPOT LEVEL	GULLY	AIR VALVE	ARMSTRONG JUNCTION	GATE	OVERHEAD ESB LINE	SIGN	SOFFIT BEAM	RIDGE LEVEL	FOUL SEWER	UNIDENTIFIED EM SIGNAL	TRAFFIC
CONTROL SURVEY STATION	WATER METER	FIRE HYDRANT	LAMP POST	SURFACE WATER LEVEL	OVERHEAD TEL LINE	TREE ACTUAL SPREAD	SOFFIT CEILING	SOFFIT LEVEL	STORM SEWER	ELECTRICAL CABLE	TRENCH
MANHOLE COVER	SLUICE VALVE	TEL INSP CHAMBER	TELECOM POLE	BED LEVEL WATERCOURSE	TELECOM POLE	TREE TAG NO.	HEAD TO FFL	FINISH FLOOR LEVEL	COMBINED SEWER	PUBLIC LIGHTING	COMBINED SEWER
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COORDINATE SYSTEM
ITM–Irish Transverse Mercator

KEY PLAN

REVISION	DATE	DESCRIPTION	DRN BY	CKD BY
01	28-05-20	TOPOGRAPHICAL SURVEY	ML	KOB

Geodata
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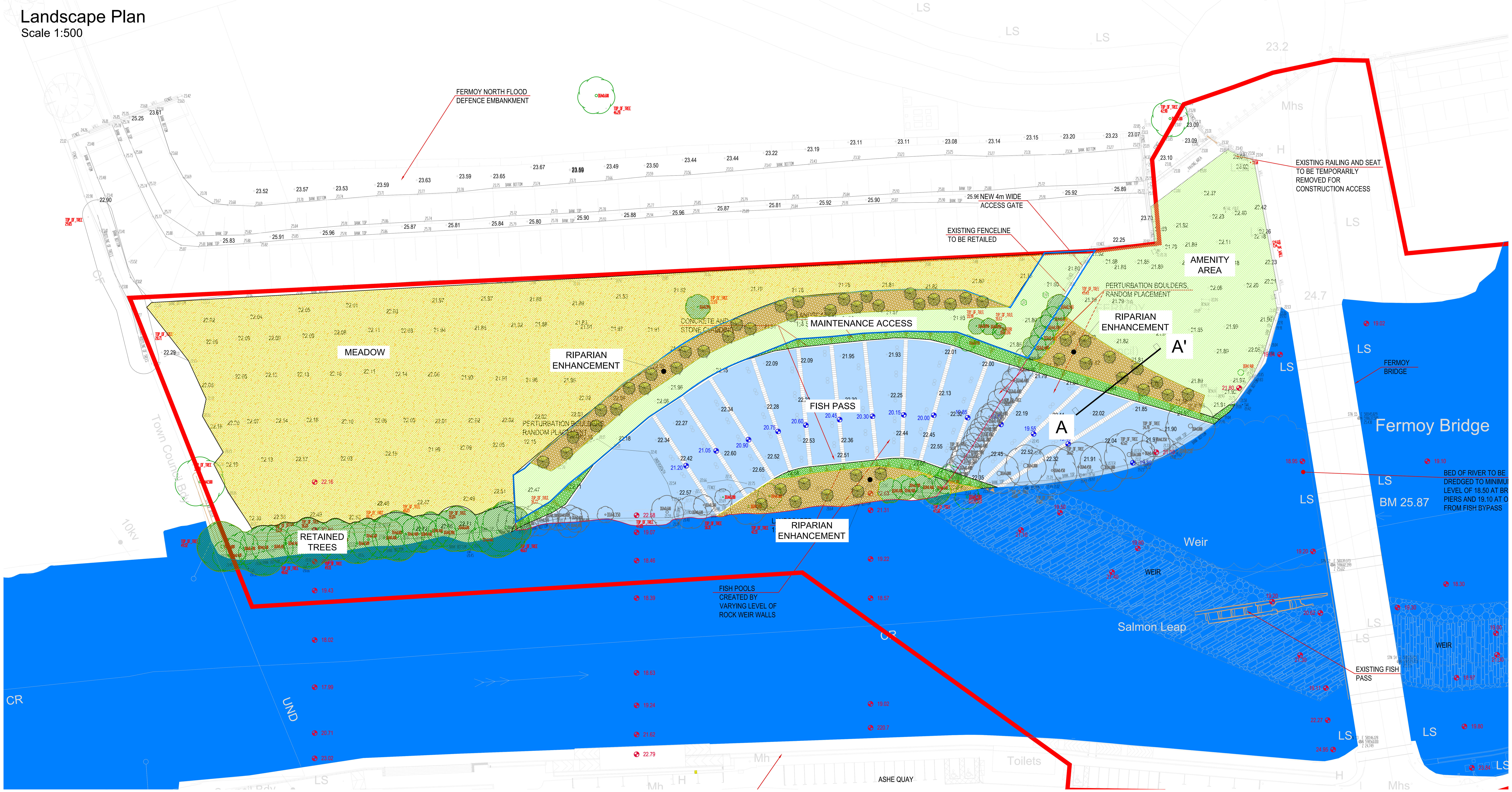
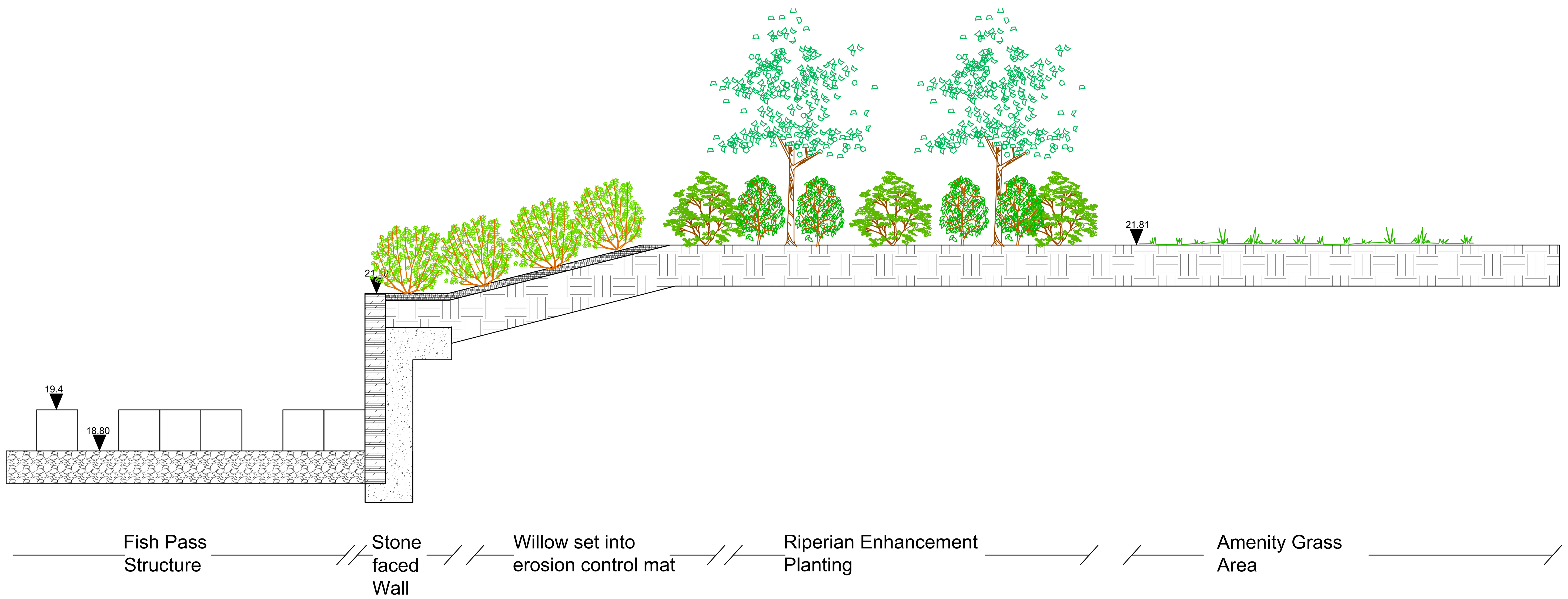
Client: TJ O'Connor 7 Associates
Project: Fermoy, Co Cork.
Title: Topographical Survey 2D
Scale: 1-500
Dwg. No: 20423-101
Date: 28-05-20
Sheet: A1

doyle + o'troithigh landscape architecture ltd

Landscape Plan
Scale 1:500



Section A-A'
Scale 1:50



North

Note

Legend

Legend:

Trees
A mixture of native species are proposed including Alder, Willow, Scots Pine, Birch & Rowan - 12-14cms

Existing retained trees protected during the site works

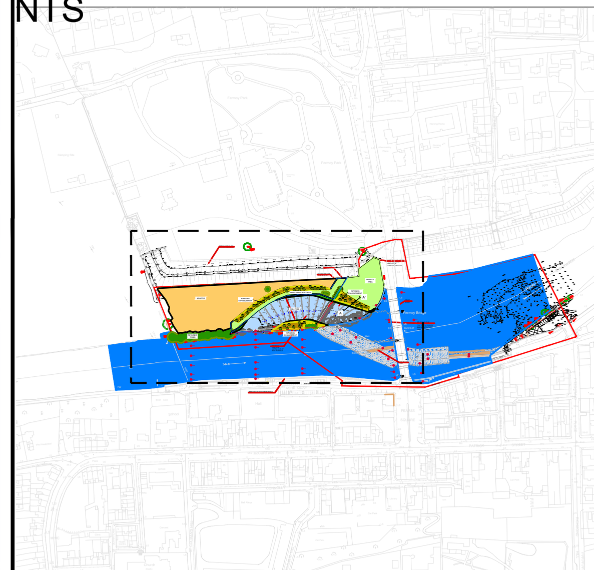
Willow peg plants (locally sourced) set into bank beside fish pass

Native Species Riparian Enhancement
- 15% Alder - 8-10 cms Trees / 80-100cms Transplants
- 15% Salix 8-10 cms Trees / 80-100cms Transplants
- 10% Wild Cherry 8-10cms Trees / 80-100cms Transplants
- 10% Bird Cherry 8.10cms Trees / 80-100cms Transplants
- 10% Native Black Poplar 80-100cms Transplants.
- 15% Holly 40-60Cms Transplants
- 15% Blackthorn 90-120 Cms Transplants
- 2.5% Bramble - 40-60cms Transplants
- 2.5% Hazel - 60-90Cms Transplants
- 2.5% Dog Rose - 60-90Cms Transplants
- 2.5% Spindle - 90-120 Cms Transplants

Grass Meadow

Hardwearing dwarf amenity ryegrass for public access

Keyplan
NTS



	Date	Note

Project name: FERMOY FISH PASS	Project number: 21-053
Drawing name: LANDSCAPE PLAN	Drawing number: LP-01-PP

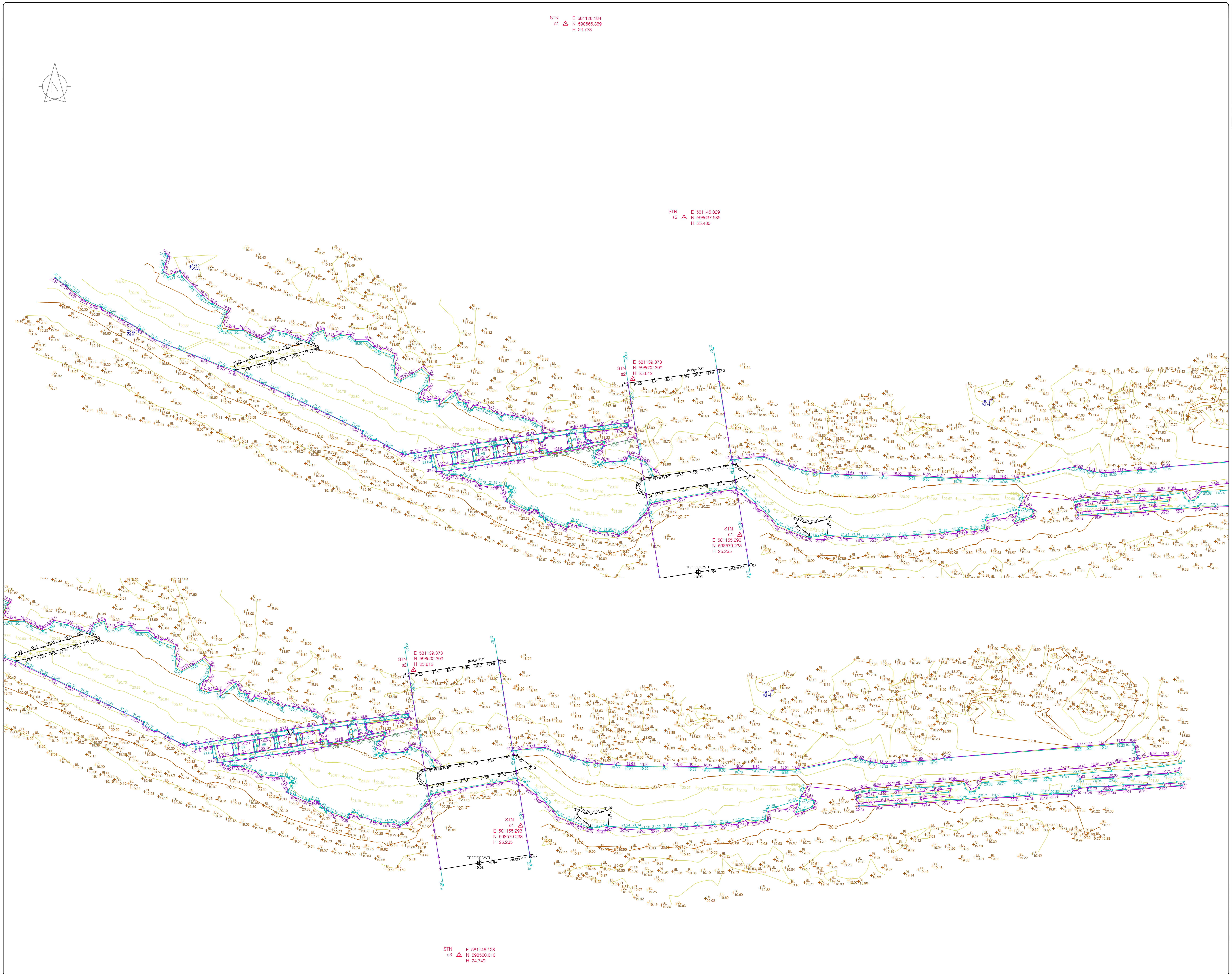
Drawing scale @ A1: 1:500 & 1:50	Drawn by: dos	Checked by: dot
Status: Planning		date: 04.04.2022

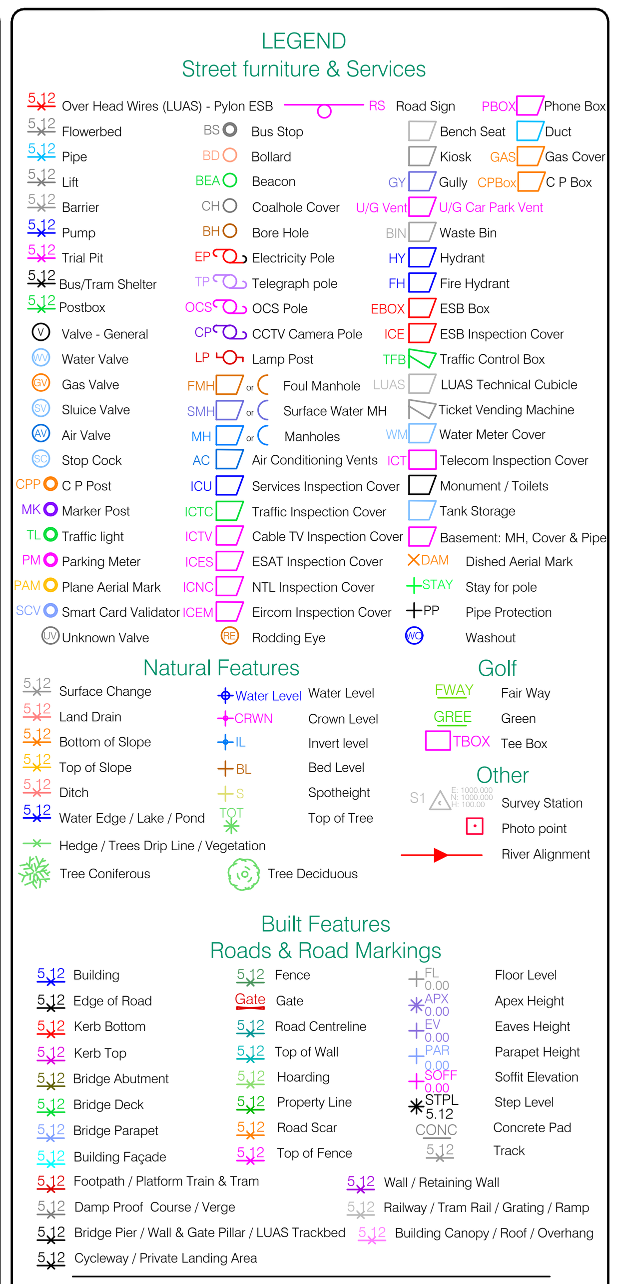
Contact details:
Linda Doyle (Director) mobile: 087 267 4196
e-mail linda@doyle-otroithigh.com
Daithi o'Troithigh (Director) mobile: 086 300 3499
e-mail daithi@doyle-otroithigh.com

Office address:
Pembroke House
28-32 Upper Pembroke Street
Dublin 2

doyle + o'troithigh
landscape - architecture

www.doyle-otroithigh.com





Murphy Surveys Ltd. Disclaimer

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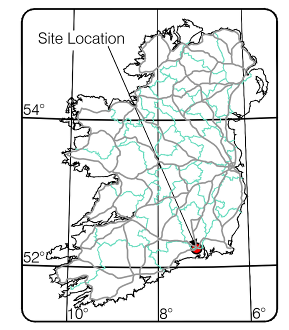
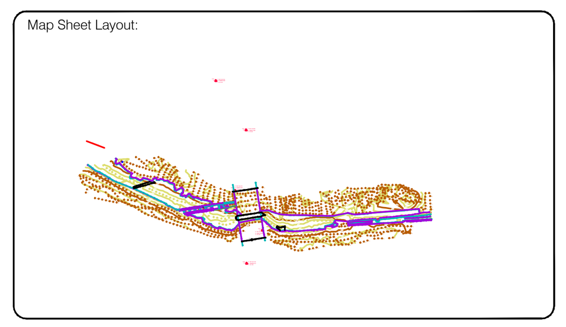
The Company shall not be liable for any inaccuracy of the data provided beyond the specified scale or accuracy, or for any matters resulting from their use for purposes other than that stated in the Contract. No liability shall attach to the Surveyor in respect of any consequential loss or damages suffered by the Client.

The Client must promptly notify the Company of any errors in mapping of which it becomes aware. If misleading, inaccurate or otherwise inappropriate information is brought to the Company's attention or the Company itself identifies any such imprecision or error in a survey, it shall use its reasonable endeavours to fix or remove it and if necessary in certain instances, the Company being on notice of any such misleading, inaccurate or otherwise inappropriate information, it will re-conduct the survey and reproduce the data to within the specified scale or accuracy.

Site Location



Map Sheet Layout:



Surveyed by : MSL — Date: Aug 2018 — Datum : Malin Head
Drawn by : BK — Date: Aug 2018 — Grid System:
Checked by : KC — Date: Aug 2018 — Irish National Grid ☐ ITM ■

Revisions

No.	Date	Description
0	28.08.18	First Drawing

murphy SURVEYS
GLOBAL CONSULTING SURVEYORS

Topographic surveys, Measured Building Surveys, Setting-Out, As-Built Surveys, Hydrographic Surveys, Legal Mapping, Pipeline Surveys, Services Location, Ground Penetrating Radar, Laser Scanning, Rectified Photography

Kildare Cork Belfast Glasgow London

Head Office
Global House
Kilcullen Business Campus
Kilcullen Co. Kildare
Ireland
Phone: (+353) 045 484040
Fax: (+353) 045 484004
Email: info@murphysurveys.ie

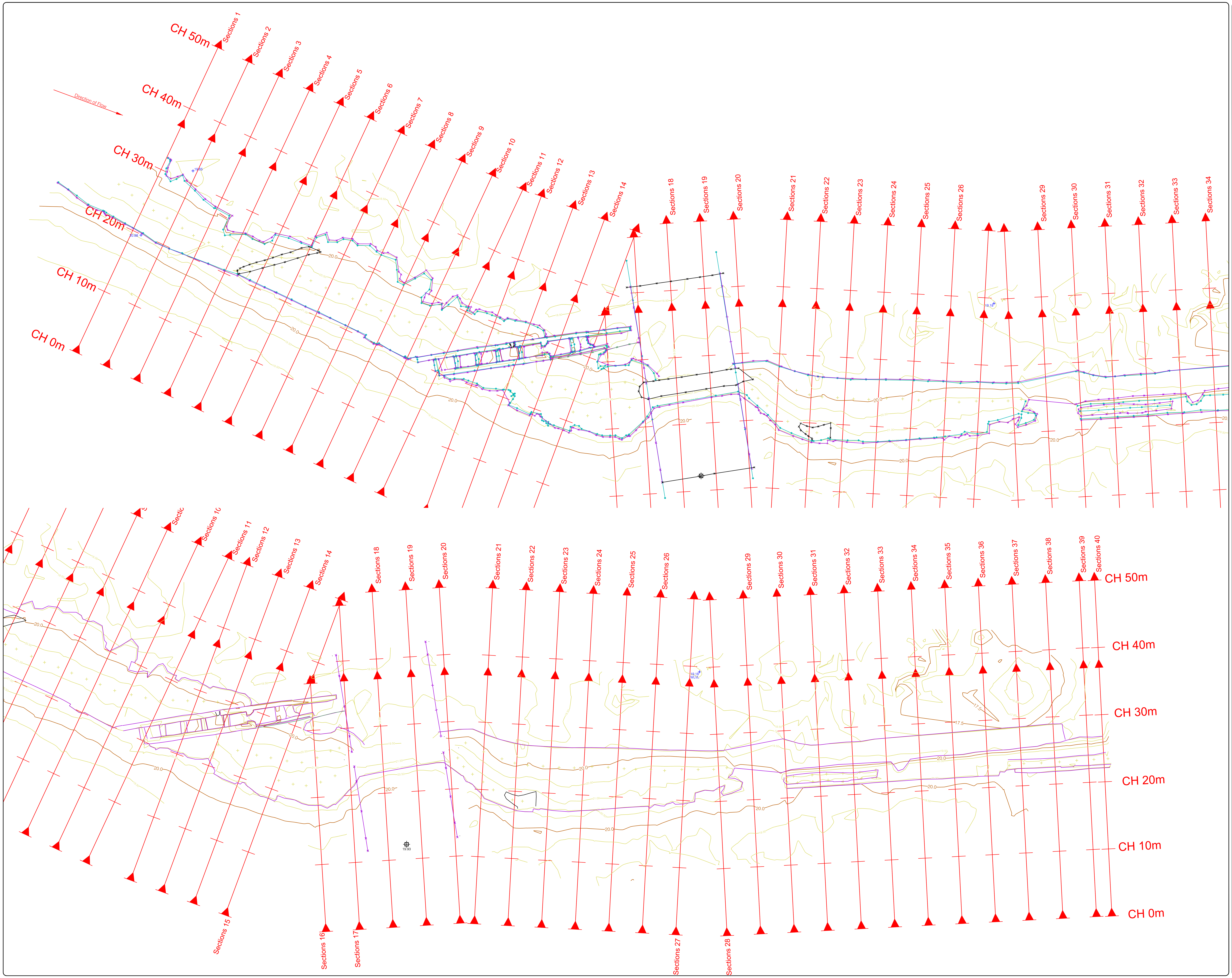
Client : TJ_O_Connor_&_Associates

Project : 27232 18024_Fermoy_Weir

Date : 28.08.18 **Scale :** 1:250@A1

Description : Topographical Survey

Drawing Number : **FERMOY WEIR_PLAN**



LEGEND

Street furniture & Services

Natural Features

Golf

Other

Built Features

Roads & Road Markings

Bridge Deck
Property Line
Step Level
Bridge Parapet
Road Scar
Concrete Pad
Building Façade
Top of Fence
Track
Footpath / Platform Train & Tram
Wall / Retaining Wall
Damp Proof Course / Verge
Railway / Tram Rail / Grating / Ramp
Bridge Pier / Wall & Gate Pillar / LUAS Trackbed
Building Canopy / Roof / Overhang
Cycleway / Private Landing Area

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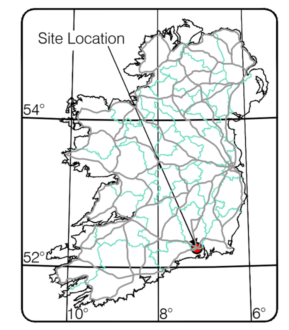

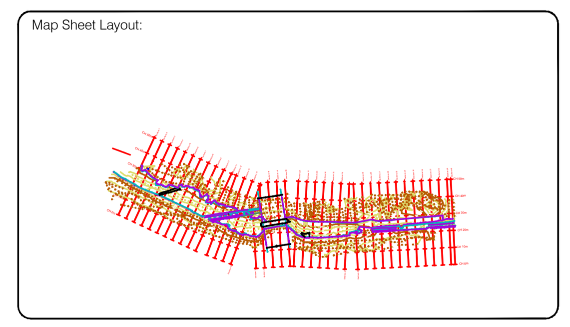

Surveyed by : MSL Date: Aug 2018 Datum : Malin Head
Drawn by : BK Date: Aug 2018 Grid System:
Checked by : KC Date: Aug 2018 Irish National Grid ☐ ITM ■

Revisions		
No.	Date	Description
0	28.08.18	First Drawing

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Kilcullen Business Campus
Kilcullen Co. Kildare
Ireland
Phone: (+353) 045 484040
Fax: (+353) 045 484004
Email: info@murphysurveys.ie

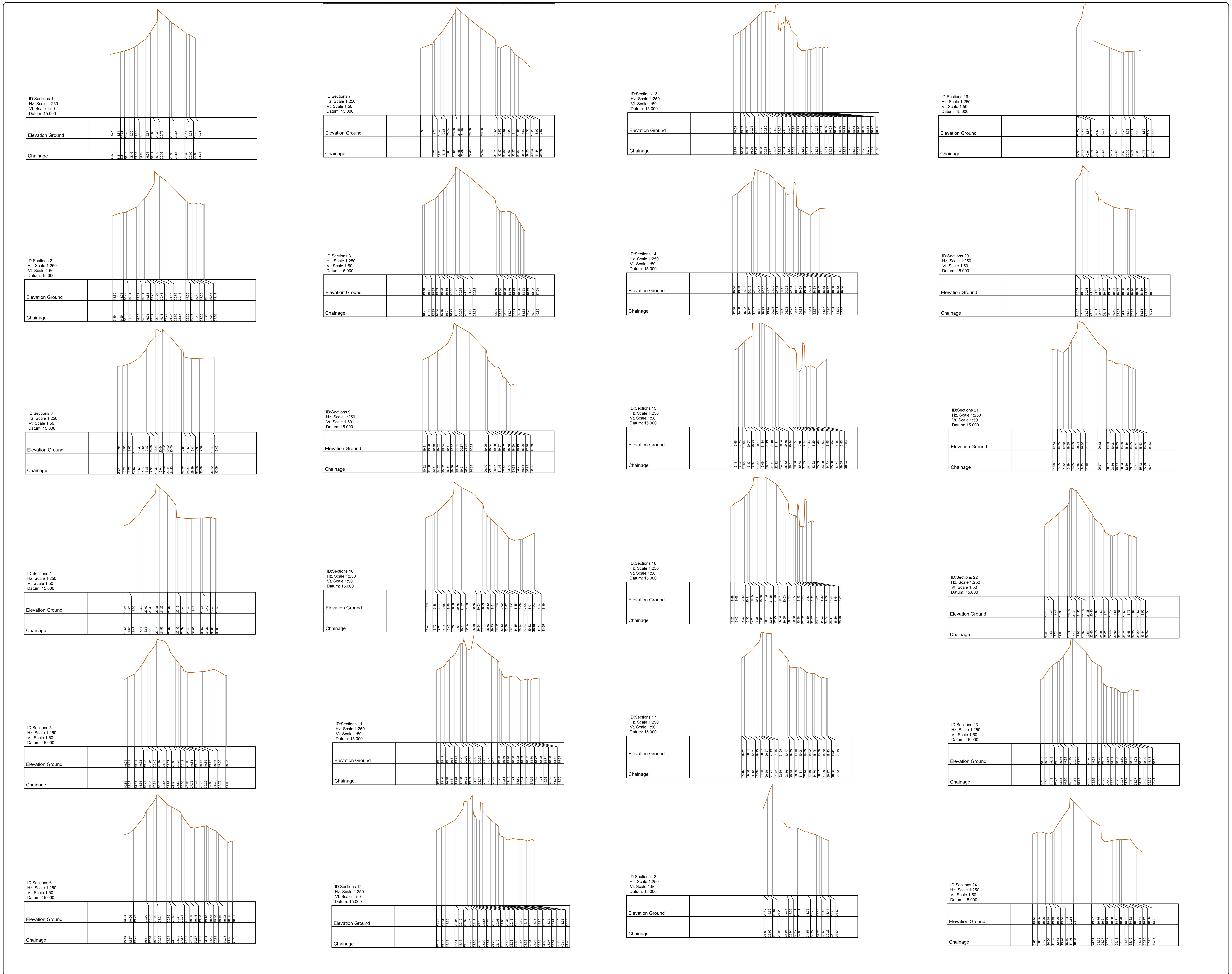
Client : TJ_O_Connor_&_Associates

Project : 27232 18024_Fermoy_Weir

Date : 28.08.18 **Scale :** 1:250@A1

Description : Topographical Survey

Drawing Number : FERMOY WEIR_CROSS SECTIONS_PLAN



LEGEND

Street furniture & Services

Over Head Wires (LUAS) - Pylon ESB; RS Road Sign; PBOX Phone Box
Flowerbed; BS Bus Stop; Bench Seat; Duct
Pipe; BD Bollard; Kiosk; GAS Gas Cover
Lift; BEA Beacon; GY Gully; CPBox C P Box
Barrier; CH Coalhole Cover; U/G Vent U/G Car Park Vent
Pump; BH Bore Hole; BIN Waste Bin
Trial Pit; EP Electricity Pole; HY Hydrant
Bus/Tram Shelter; TP Telegraph pole; FH Fire Hydrant
Postbox; OCS OCS Pole; EBOX ESB Box
V Valve - General; CP CCTV Camera Pole; ICE ESB Inspection Cover
WV Water Valve; LP Lamp Post; TFB Traffic Control Box
GV Gas Valve; FMH or Foul Manhole; LUAS LUAS Technical Cubicle
SV Sluice Valve; SMH or Surface Water MH; Ticket Vending Machine
AV Air Valve; MH or Manholes; WM Water Meter Cover
SC Stop Cock; AC Air Conditioning Vents; ICT Telecom Inspection Cover
CPP C P Post; ICU Services Inspection Cover; Monument / Toilets
MK Marker Post; ICTC Traffic Inspection Cover; Tank Storage
TL Traffic light; ICTV Cable TV Inspection Cover; Basement: MH, Cover & Pipe
PM Parking Meter; ICES ESAT Inspection Cover; DAM Dished Aerial Mark
PAM Plane Aerial Mark; ICNC NTL Inspection Cover; STAY Stay for pole
SCV Smart Card Validator; ICEM Eircom Inspection Cover; PP Pipe Protection
UV Unknown Valve; RE Rodding Eye; WO Washout

Natural Features

Surface Change; Water Level Water Level
Land Drain; CRWN Crown Level
Bottom of Slope; IL Invert level
Top of Slope; BL Bed Level
Ditch; S Spotheight
Water Edge / Lake / Pond; TOT Top of Tree
Hedge / Trees Drip Line / Vegetation
Tree Coniferous; Tree Deciduous

Golf

FWAY Fair Way
GREE Green
TBOX Tee Box

Other

S1 E: 1000.000 N: 1000.000 H: 100.00 Survey Station
Photo point
River Alignment

Built Features
Roads & Road Markings

Building; Fence; FL 0.00 Floor Level
Edge of Road; Gate Gate; APX 0.00 Apex Height
Kerb Bottom; Road Centreline; EV 0.00 Eaves Height
Kerb Top; Top of Wall; PAR 0.00 Parapet Height
Bridge Abutment; Hoarding; SOFF 0.00 Soffit Elevation
Bridge Deck; Property Line; STPL 5.12 Step Level
Bridge Parapet; Road Scar; CONC Concrete Pad
Building Façade; Top of Fence; Track
Footpath / Platform Train & Tram; Wall / Retaining Wall
Damp Proof Course / Verge; Railway / Tram Rail / Grating / Ramp
Bridge Pier / Wall & Gate Pillar / LUAS Trackbed; Building Canopy / Roof / Overhang
Cycleway / Private Landing Area

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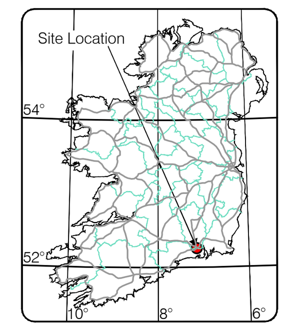
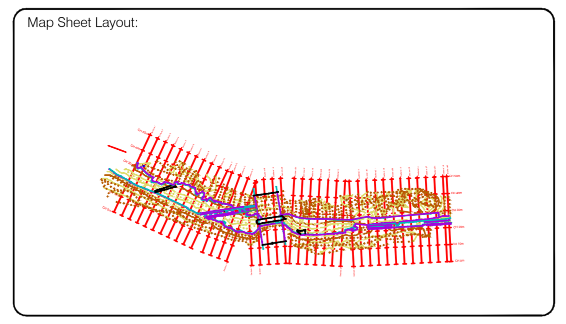
Site Location



Map Sheet Layout



Surveyed by : MSL Date: Aug 2018 Datum : Malin Head
Drawn by : BK Date: Aug 2018 Grid System:
Checked by : KC Date: Aug 2018 Irish National Grid ☐ ITM ■

Revisions

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Head Office
Global House
Kilcullen Business Campus
Kilcullen Co. Kildare
Ireland
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Email: info@murphysurveys.ie

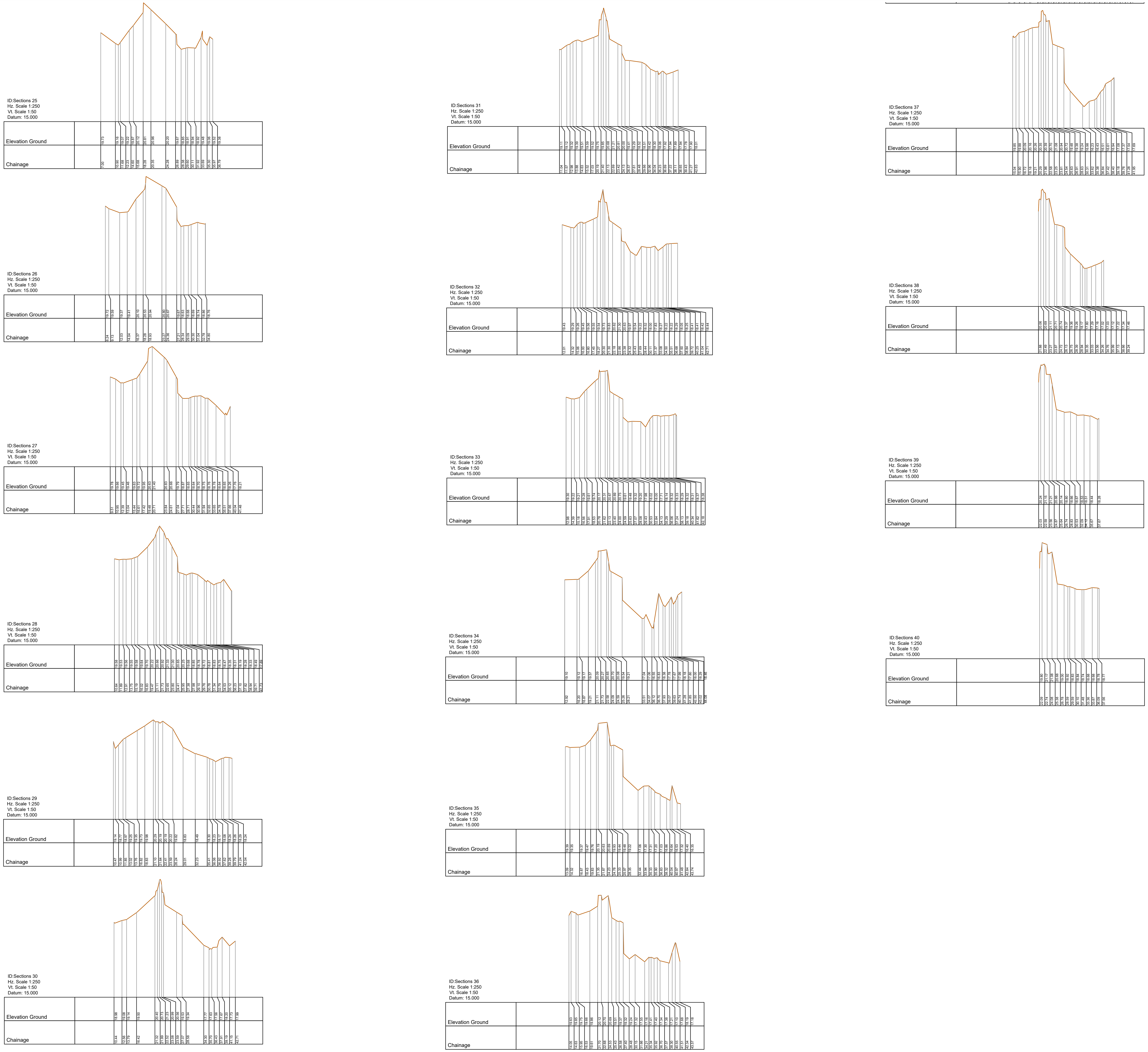
Client : TJ_O_Connor_&_Associates

Project : 27232 18024_Fermoy_Weir

Date : 28.08.18 **Scale :** AS SHOWN@A1

Description : Topographical Survey

Drawing Number : FERMOY WEIR_CROSS SECTIONS_PROFILE_01



LEGEND

Street furniture & Services

Over Head Wires (LUAS) - Pylon ESB; Flowerbed; Pipe; Lift; Barrier; Pump; Trial Pit; Bus/Tram Shelter; Postbox; Valve - General; Water Valve; Gas Valve; Sluice Valve; Air Valve; Stop Cock; CPP C P Post; MK Marker Post; TL Traffic light; PM Parking Meter; PAM Plane Aerial Mark; SCV Smart Card Validator; Unknown Valve

RS Road Sign; BS Bus Stop; BD Bollard; BEA Beacon; CH Coalhole Cover; BH Bore Hole; EP Electricity Pole; TP Telegraph pole; OCS OCS Pole; CP CCTV Camera Pole; LP Lamp Post; FMH or Foul Manhole; SMH or Surface Water MH; MH or Manholes; AC Air Conditioning Vents; ICU Services Inspection Cover; ICTC Traffic Inspection Cover; ICTV Cable TV Inspection Cover; ICES ESAT Inspection Cover; ICNC NTL Inspection Cover; ICEM Eircom Inspection Cover; RE Rodding Eye

PBOX Phone Box; Bench Seat; Duct; Kiosk; GAS Gas Cover; GY Gully; CPBox C P Box; U/G Vent U/G Car Park Vent; BIN Waste Bin; HY Hydrant; FH Fire Hydrant; EBOX ESB Box; ICE ESB Inspection Cover; TFB Traffic Control Box; LUAS LUAS Technical Cubicle; Ticket Vending Machine; WM Water Meter Cover; ICT Telecom Inspection Cover; Monument / Toilets; Tank Storage; Basement: MH, Cover & Pipe; DAM Dished Aerial Mark; STAY Stay for pole; PP Pipe Protection; WO Washout

Natural Features

Surface Change; Land Drain; Bottom of Slope; Top of Slope; Ditch; Water Edge / Lake / Pond; Hedge / Trees Drip Line / Vegetation; Tree Coniferous

Water Level Water Level; CRWN Crown Level; IL Invert level; BL Bed Level; S Spotheight; TOT Top of Tree; Tree Deciduous

Golf

FWAY Fair Way; GREE Green; TBOX Tee Box

Other

S1 E: 1000.000 N: 1000.000 H: 100.00 Survey Station; Photo point; River Alignment

Built Features
Roads & Road Markings

Building; Edge of Road; Kerb Bottom; Kerb Top; Bridge Abutment; Bridge Deck; Bridge Parapet; Building Façade; Footpath / Platform Train & Tram; Damp Proof Course / Verge; Bridge Pier / Wall & Gate Pillar / LUAS Trackbed; Cycleway / Private Landing Area

Fence; Gate Gate; Road Centreline; Top of Wall; Hoarding; Property Line; Road Scar; Top of Fence; Wall / Retaining Wall; Railway / Tram Rail / Grating / Ramp; Building Canopy / Roof / Overhang

FL 0.00 Floor Level; APX 0.00 Apex Height; EV 0.00 Eaves Height; PAR 0.00 Parapet Height; SOFF 0.00 Soffit Elevation; STPL 5.12 Step Level; CONC Concrete Pad; Track

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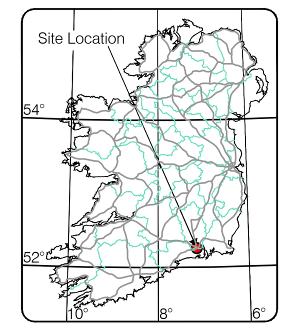
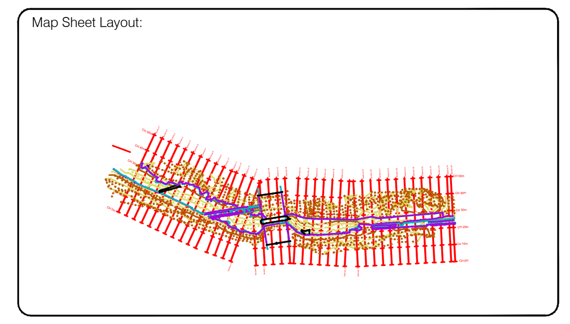
Site Location



Map Sheet Layout:



Surveyed by : MSL Date: Aug 2018 Datum : Malin Head
Drawn by : BK Date: Aug 2018 Grid System:
Checked by : KC Date: Aug 2018 Irish National Grid ☐ ITM ■

Revisions

No.	Date	Description
0	28.08.18	First Drawing

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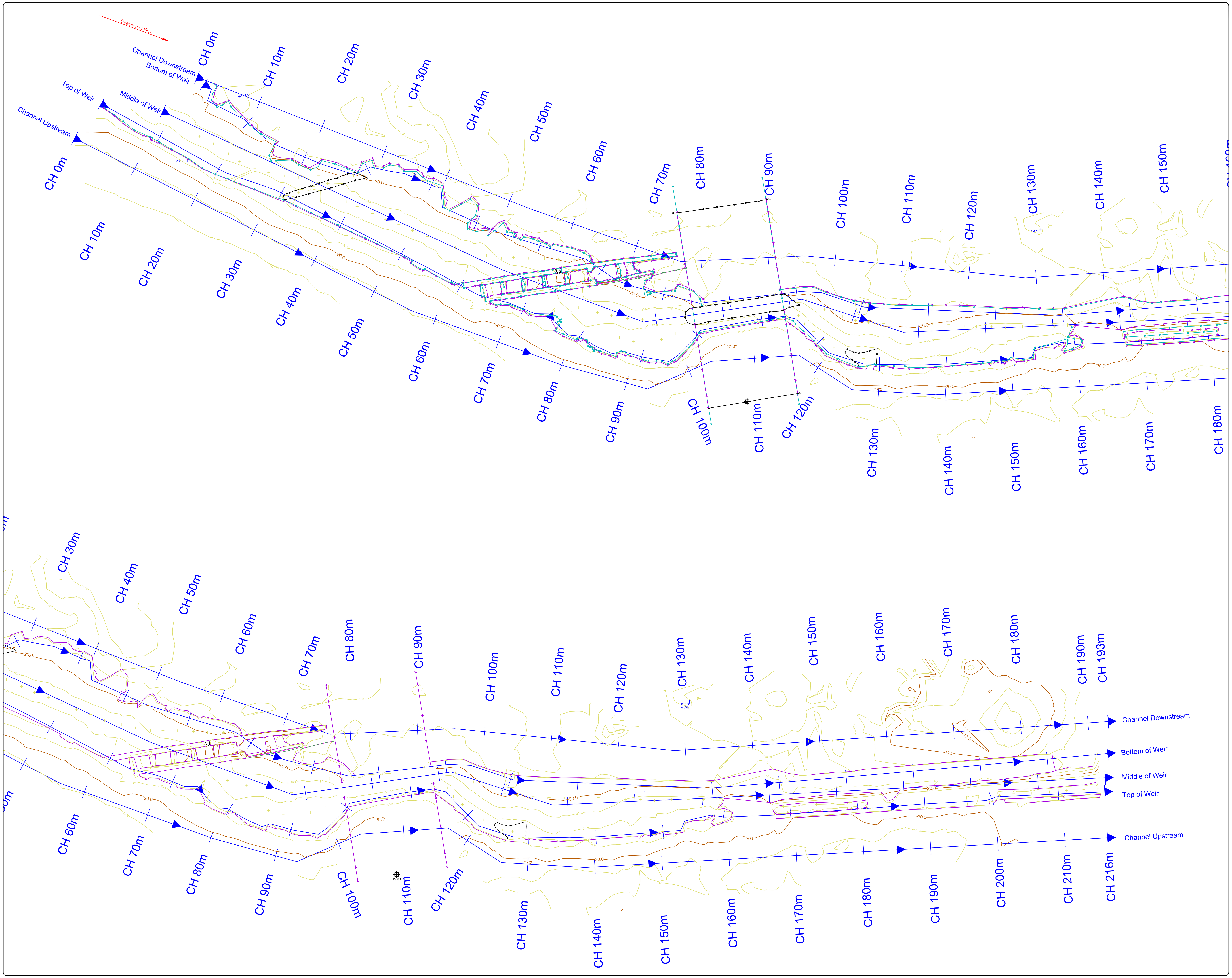
Client : TJ_O_Connor_&_Associates

Project : 27232 18024_Fermoy_Weir

Date : 28.08.18 **Scale :** AS SHOWN@A1

Description : Topographical Survey

Drawing Number : FERMOY WEIR_CROSS SECTIONS_PROFILE_02



LEGEND
Street furniture & Services
Natural Features
Golf
Other
Built Features
Roads & Road Markings

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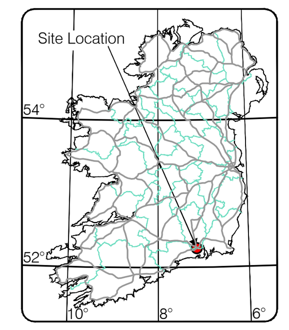

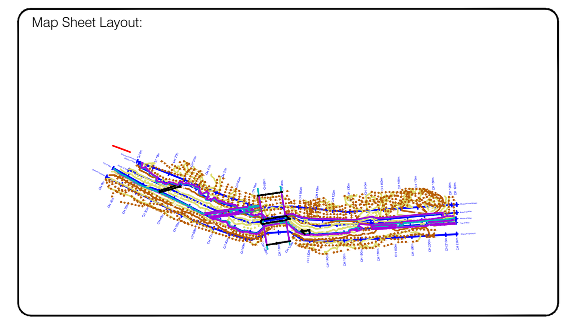

Surveyed by : MSL   Date: Aug 2018   Datum : Malin Head
Drawn by : BK   Date: Aug 2018   Grid System:
Checked by : KC   Date: Aug 2018   Irish National Grid ☐ ITM ■

Revisions

No.	Date	Description
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Client : TJ_O_Connor_&_Associates

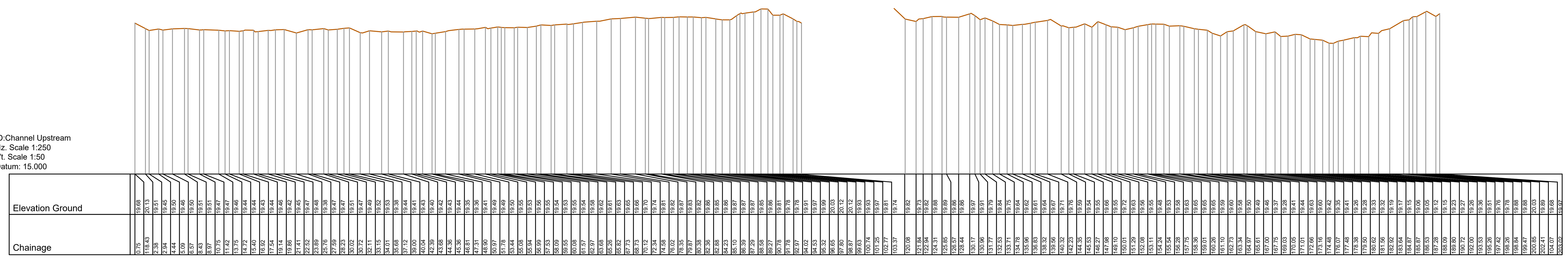
Project : 27232 18024_Fermoy_Weir

Date : 28.08.18 **Scale :** 1:250@A1

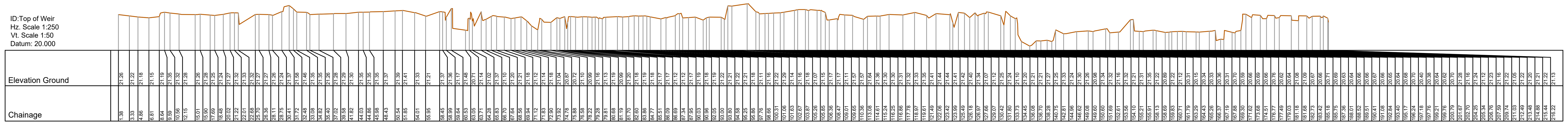
Description : Topographical Survey

Drawing Number : FERMOY WEIR_LONG SECTION_PLAN

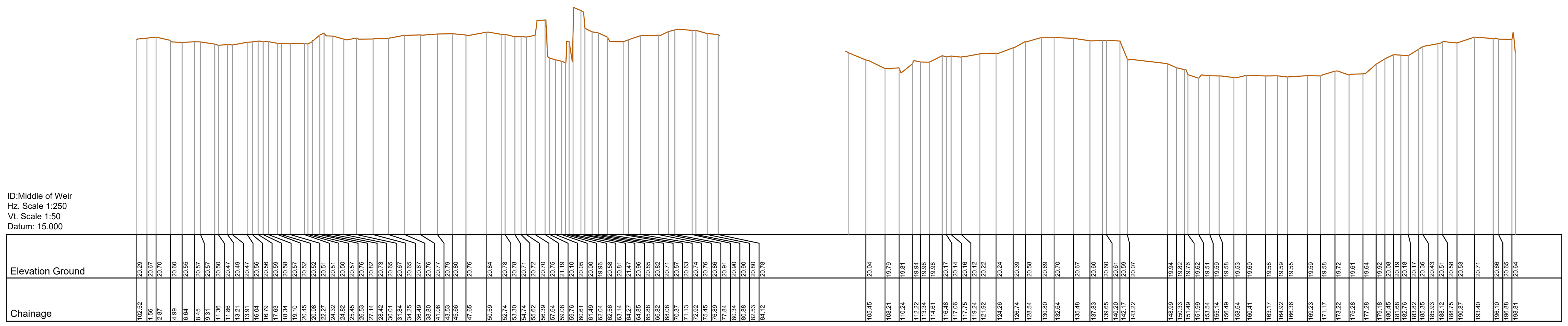
ID:Channel Upstream
Hz. Scale 1:250
Vt. Scale 1:50
Datum: 15.000



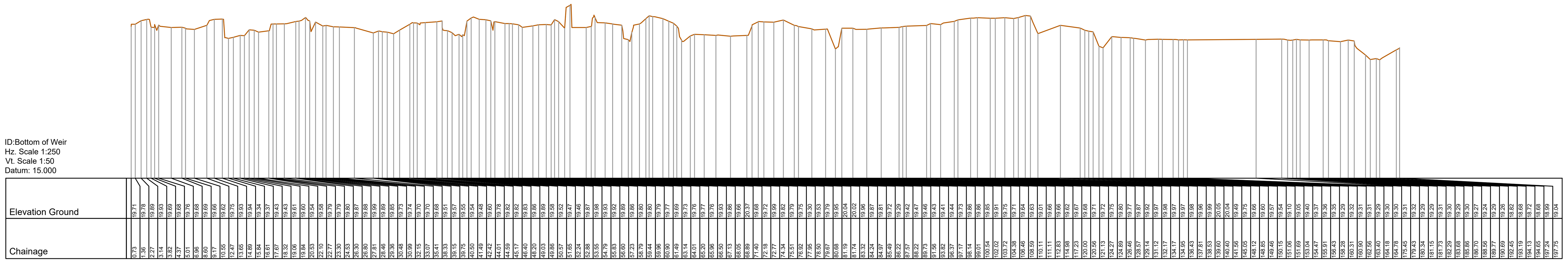
ID:Top of Weir
Hz. Scale 1:250
Vt. Scale 1:50
Datum: 20.000



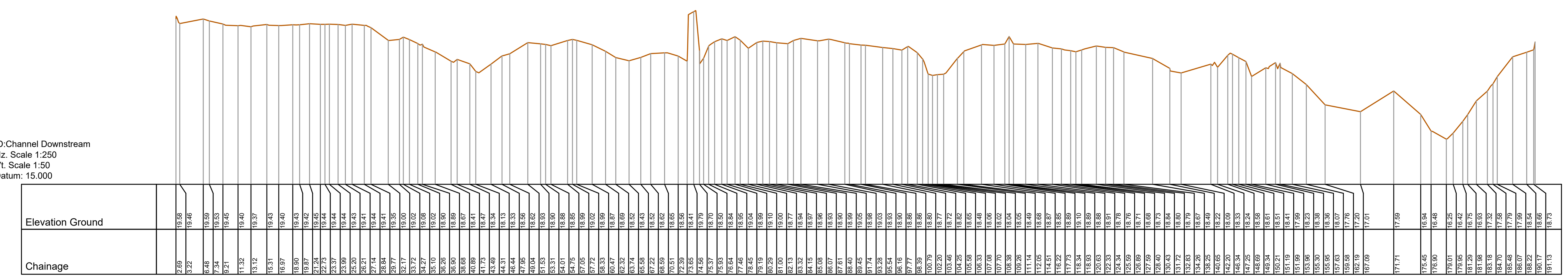
ID:Middle of Weir
Hz. Scale 1:250
Vt. Scale 1:50
Datum: 15.000

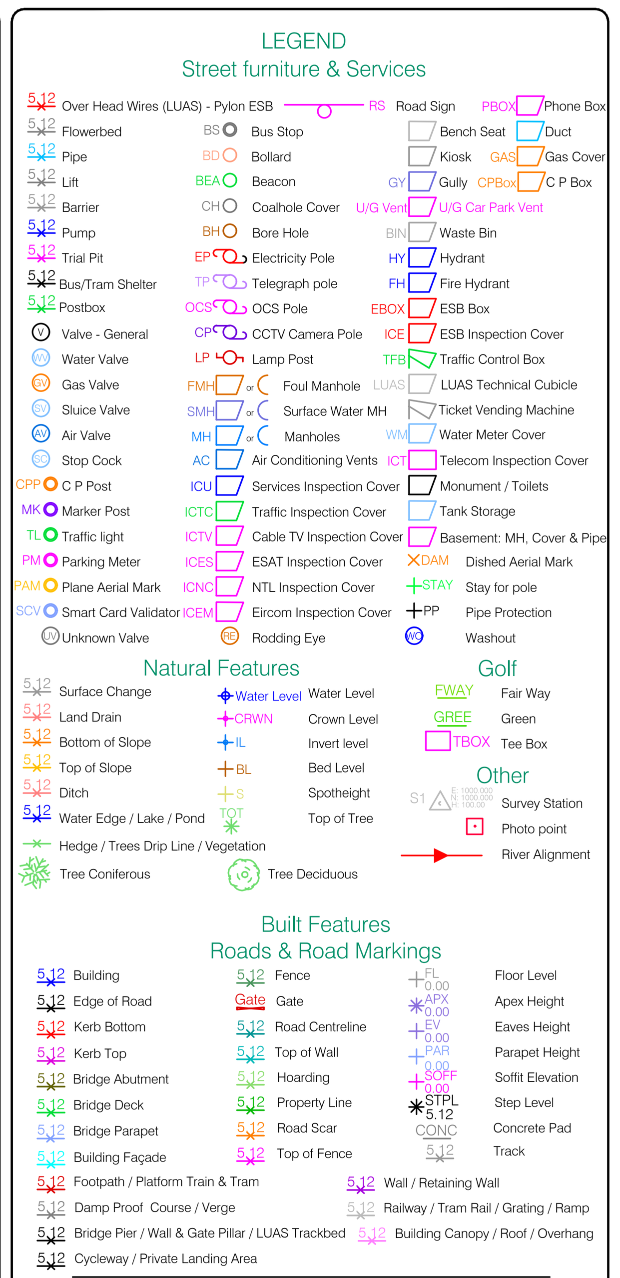


ID:Bottom of Weir
Hz. Scale 1:250
Vt. Scale 1:50
Datum: 15.000



ID:Channel Downstream
Hz. Scale 1:250
Vt. Scale 1:50
Datum: 15.000





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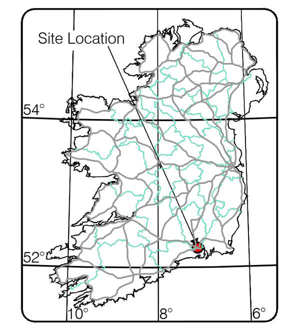
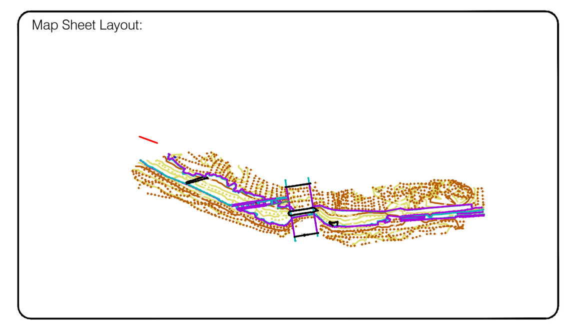
Site Location



Map Sheet Layout



Surveyed by : MSL Date: Aug 2018 Datum : Malin Head
Drawn by : BK Date: Aug 2018 Grid System:
Checked by : KC Date: Aug 2018 Irish National Grid ☐ ITM ■

Revisions		
No.	Date	Description
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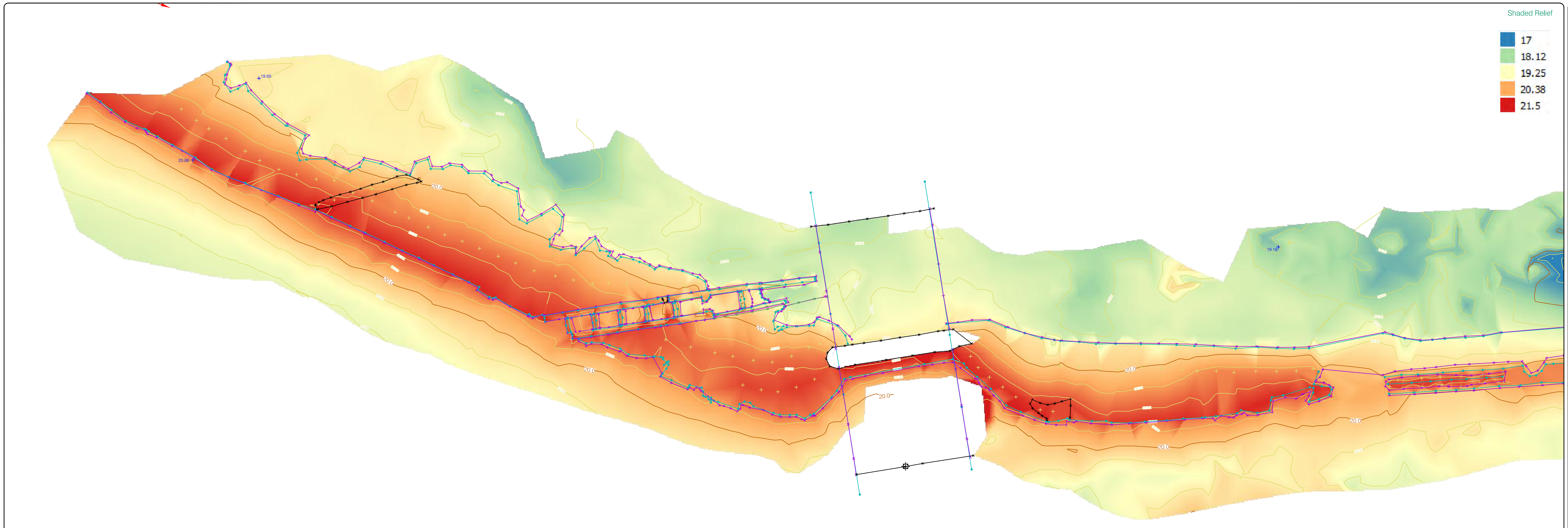
Client : TJ_O_Connor_&_Associates

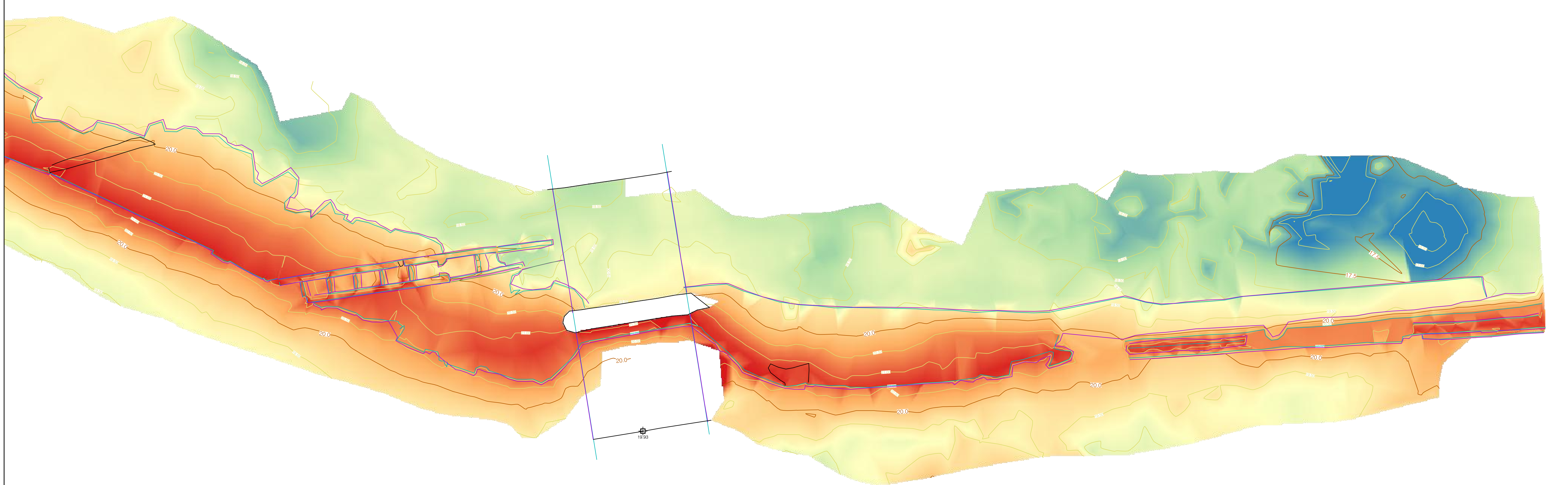
Project : 27232 18024_Fermoy_Weir

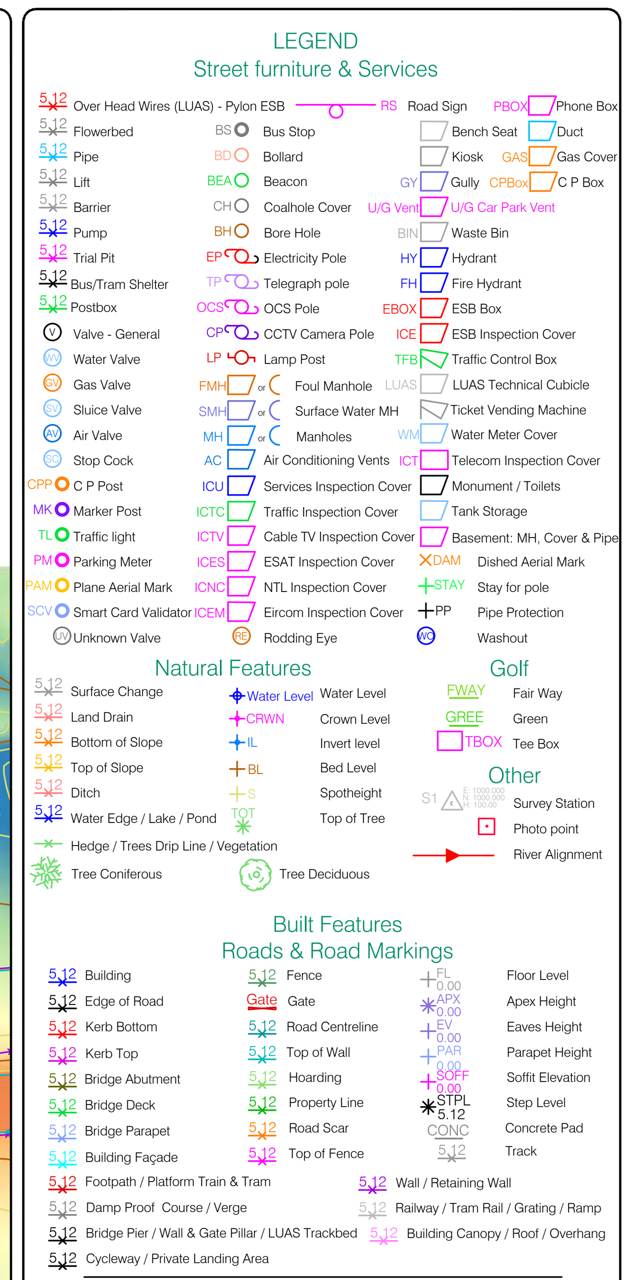
Date : 28.08.18 **Scale :** AS SHOWN@A1

Description : Topographical Survey

Drawing Number : FERMOY WEIR_LONG SECTION_01







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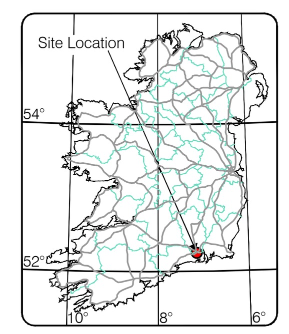

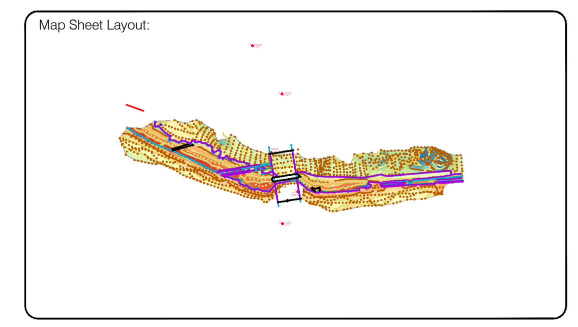

Surveyed by : MSL — Date: Aug 2018 — Datum : Malin Head
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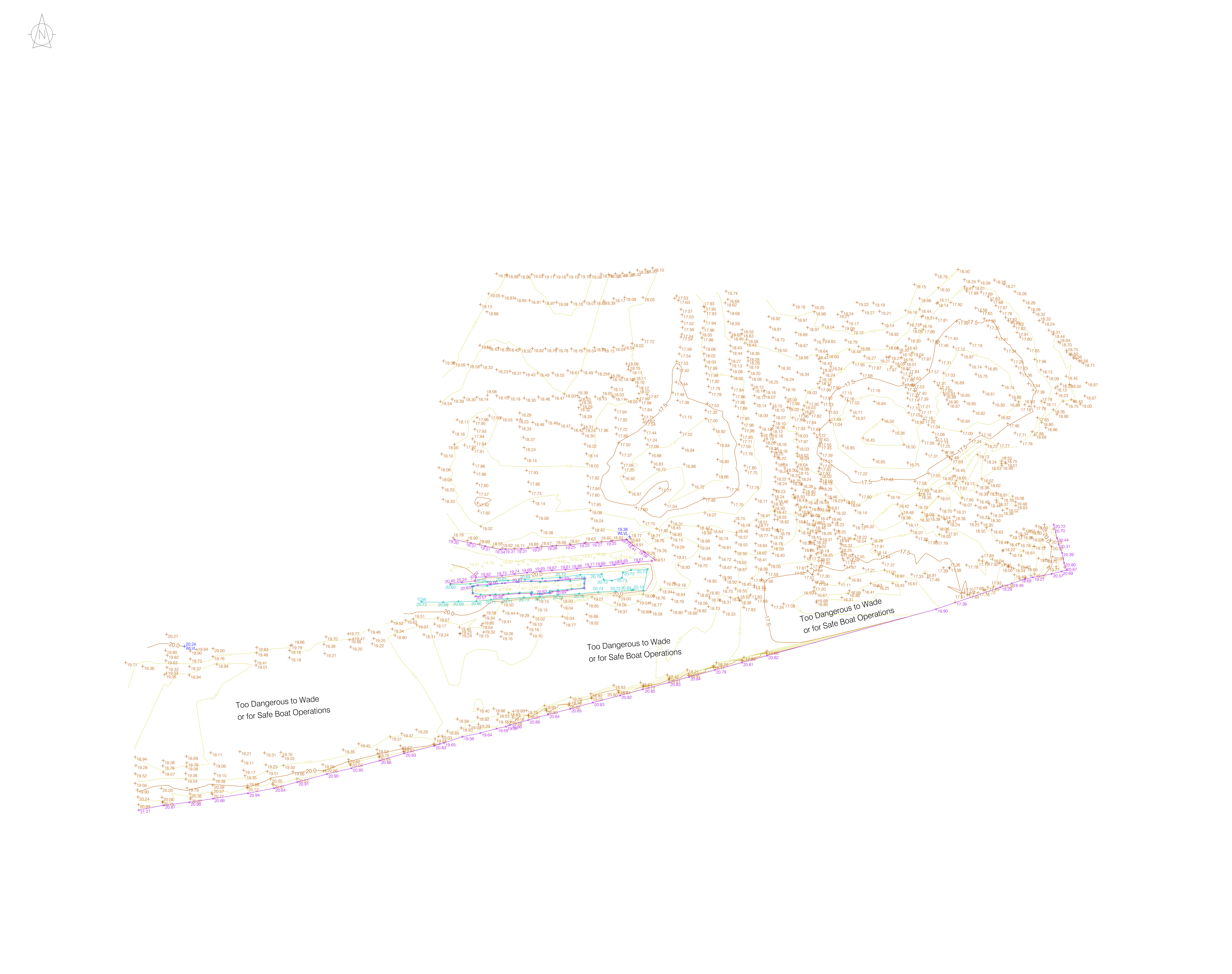
Client : TJ_O_Connor_&_Associates

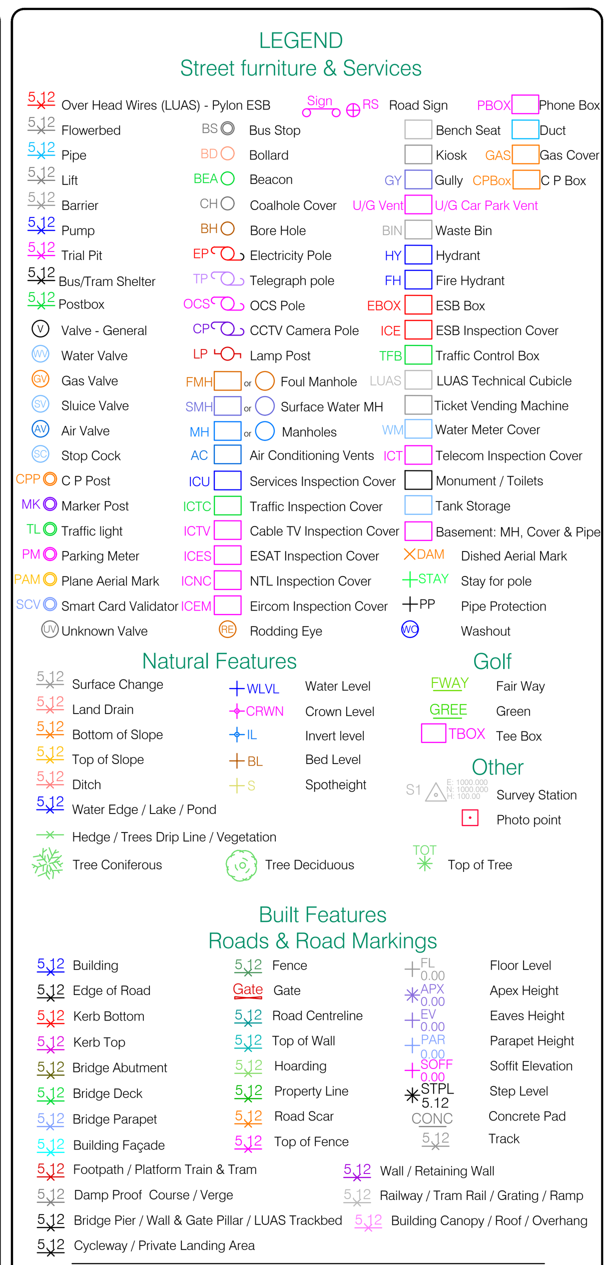
Project : 27232 18024_Fermoy_Weir

Date : 28.08.18 **Scale :** 1:250@A1

Description : Topographical Survey

Drawing Number : FERMOY WEIR_DTM





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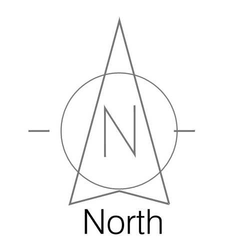
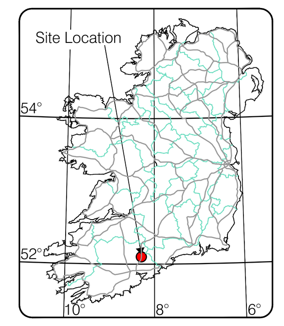
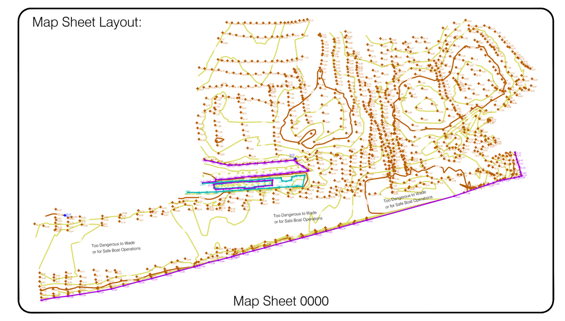
The Company shall not be liable for any inaccuracy of the data provided beyond the specified scale or accuracy, or for any matters resulting from their use for purposes other than that stated in the Contract. No liability shall attach to the Surveyor in respect of any consequential loss or damages suffered by the Client.

The Client must promptly notify the Company of any errors in mapping of which it becomes aware. If misleading, inaccurate or otherwise inappropriate information is brought to the Company's attention or the Company itself identifies any such imprecision or error in a survey, it shall use its reasonable endeavours to fix or remove it and if necessary in certain instances, the Company being on notice of any such misleading, inaccurate or otherwise inappropriate information, it will re-conduct the survey and reproduce the data to within the specified scale or accuracy.







Surveyed by : MSL Date: Aug 2020 Datum : Malin Head
Drawn by : CE Date: Aug 2020 Grid System:
Checked by : BK Date: 12.08.20 Irish National Grid ☐ ITM ■

Revisions

No.	Date	Description
0	11.08.20	First Drawing

murphy SURVEYS
GLOBAL CONSULTING SURVEYORS

Topographic surveys, Measured Building Surveys, Setting-Out, As-Built Surveys, Hydrographic Surveys, Legal Mapping, Pipeline Surveys, Services Location, Ground Penetrating Radar, Laser Scanning, Rectified Photography

Kildare Cork Belfast Glasgow London

Head Office
Global House
Kilcullen Business Campus
Kilcullen Co. Kildare
Ireland
Phone: (+353) 045 484040
Fax: (+353) 045 484004
Email: info@murphysurveys.ie

Client : TJ O connor & Associates

Project : Fermoy Mill Race River Bed Survey

Date : 11.08.20 **Scale :** 1:150@A0

Description : River Bed Survey

Drawing Number : MSL3□□□0_01