

LEGEND:

PLANNING RED LINE BOUNDARY



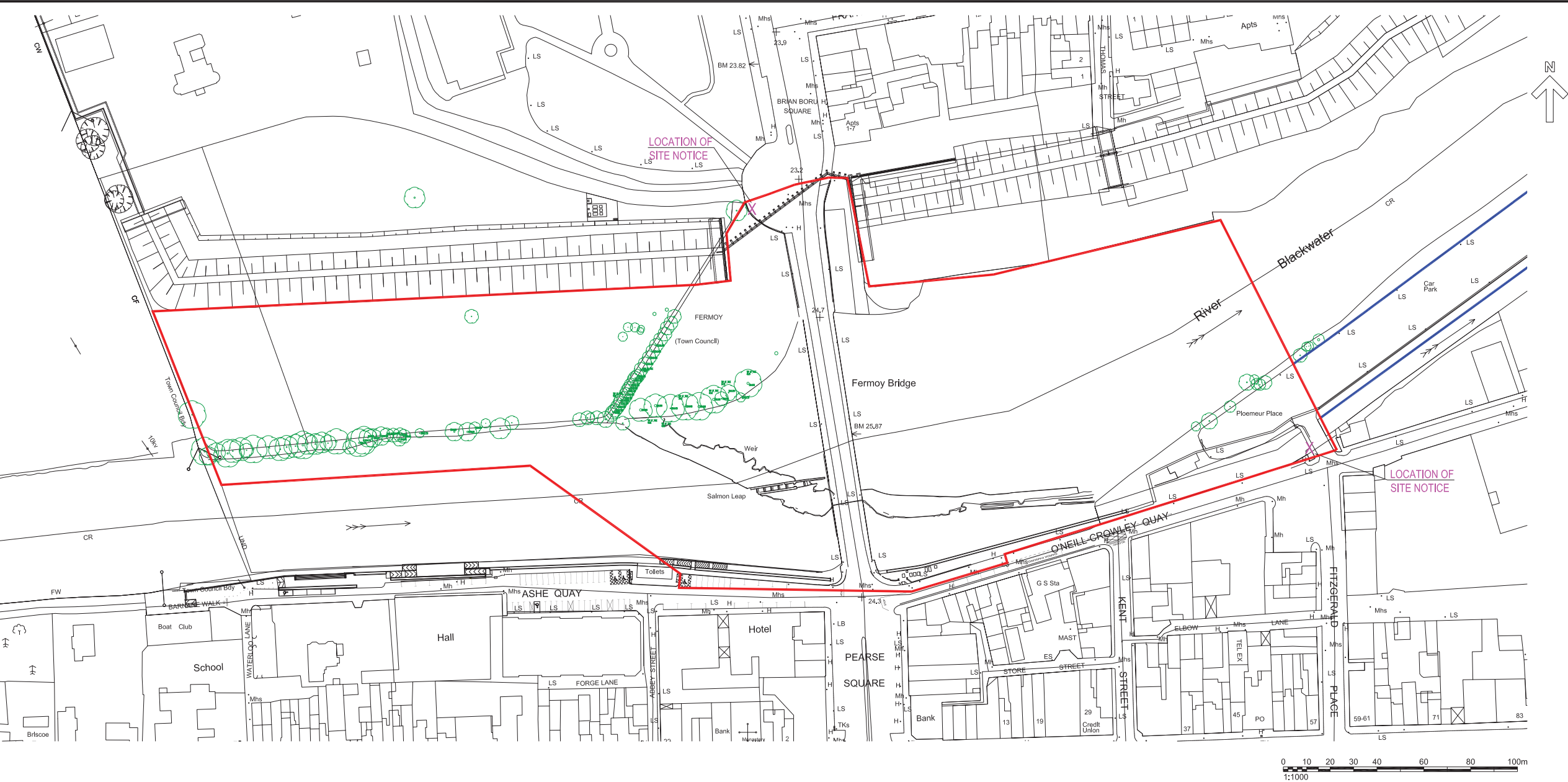
PERMANENT WAYLEAVES



SITE NOTICE LOCATION



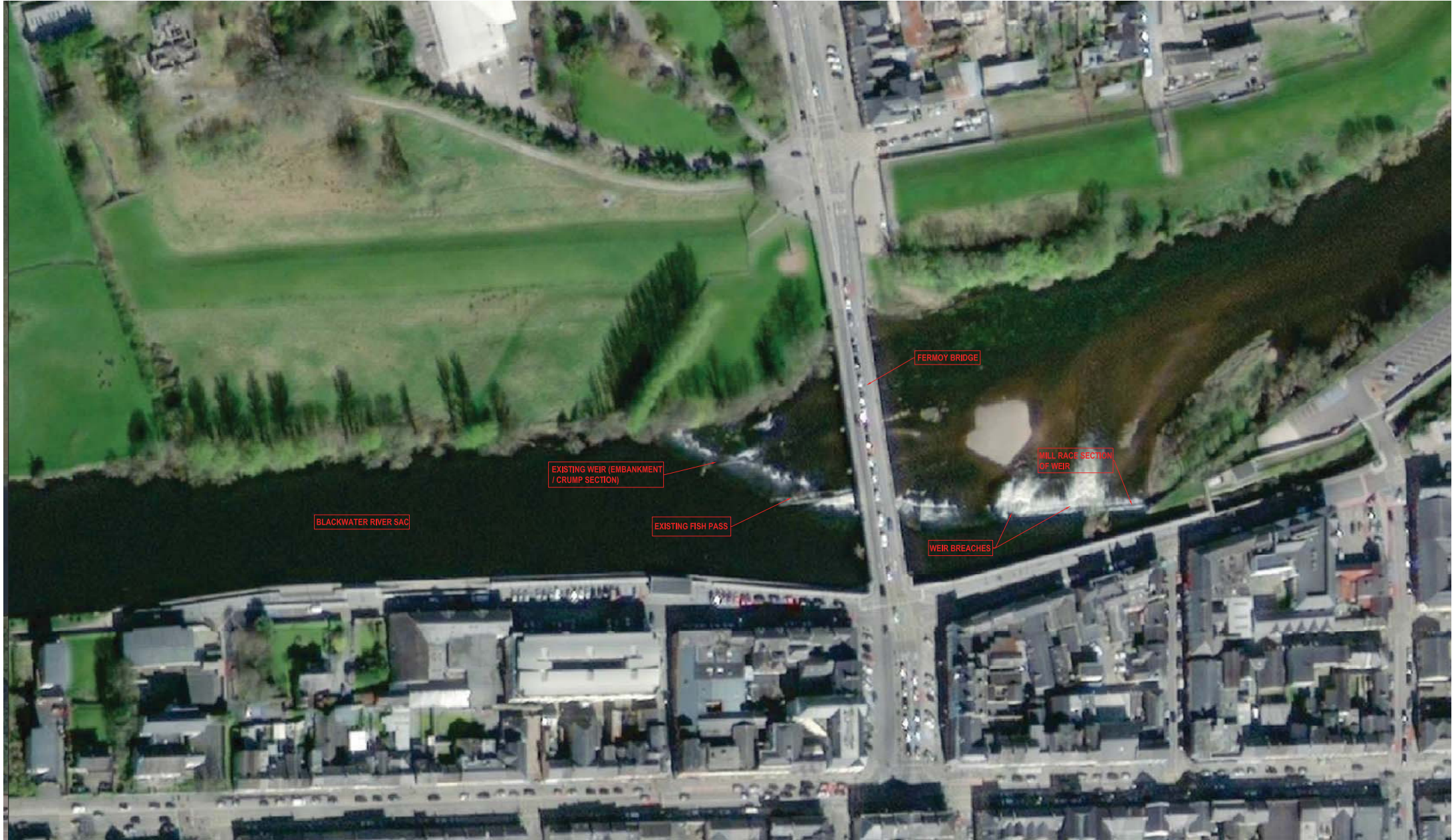
C01	AP	ISSUED FOR PLANNING		02.06.2022
REV	STAT	DESCRIPTION		DATE
DRAWING STATUS:				
ISSUED FOR PLANNING				
CHECKED BY: LC		REVIEWED BY: MV	APPROVED BY: DC	
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PROJECT: FERMOY WEIR REMEDIATION & FISH BYPASS CHANNEL				
CLIENT: CORK COUNTY COUNCIL				
DRAWING TITLE: SITE LOCATION MAP				
SCALE: 1:10560				(A3)
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER				REV:
19011-TJOC-PL-XX-DR-C-0048				C01



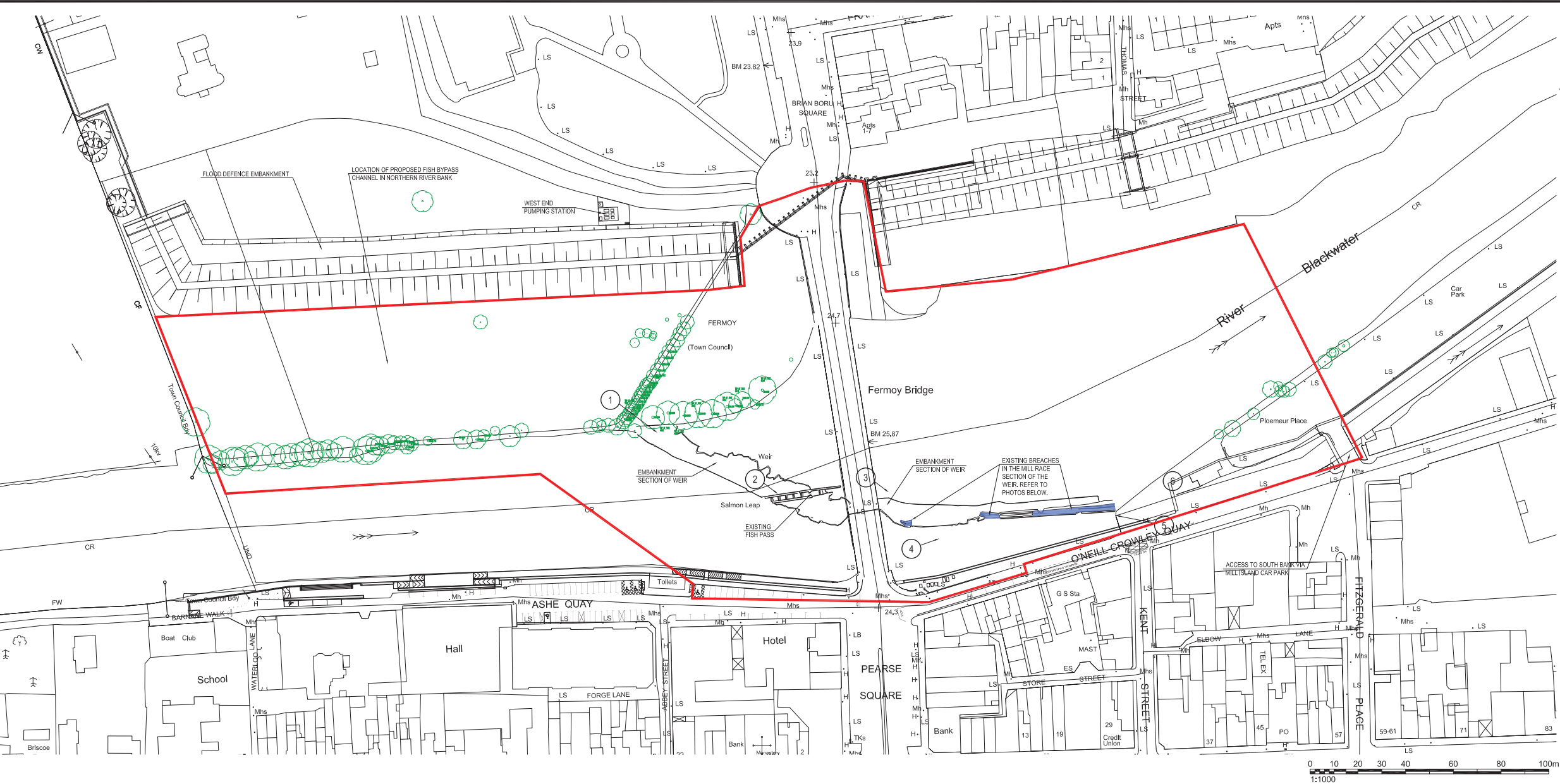
- LEGEND:
- PLANNING RED LINE BOUNDARY
 - PERMANENT WAYLEAVES
 - SITE NOTICE LOCATION
 - OTHER LANDS IN THE CONTROL OF THE APPLICANT

MAP REPRODUCED BY PERMISSION OF
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(CORK CCMA 9802)

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PROJECT: FERMIL 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



C01	AP	ISSUED FOR PLANNING		02.06.2022
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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



- 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



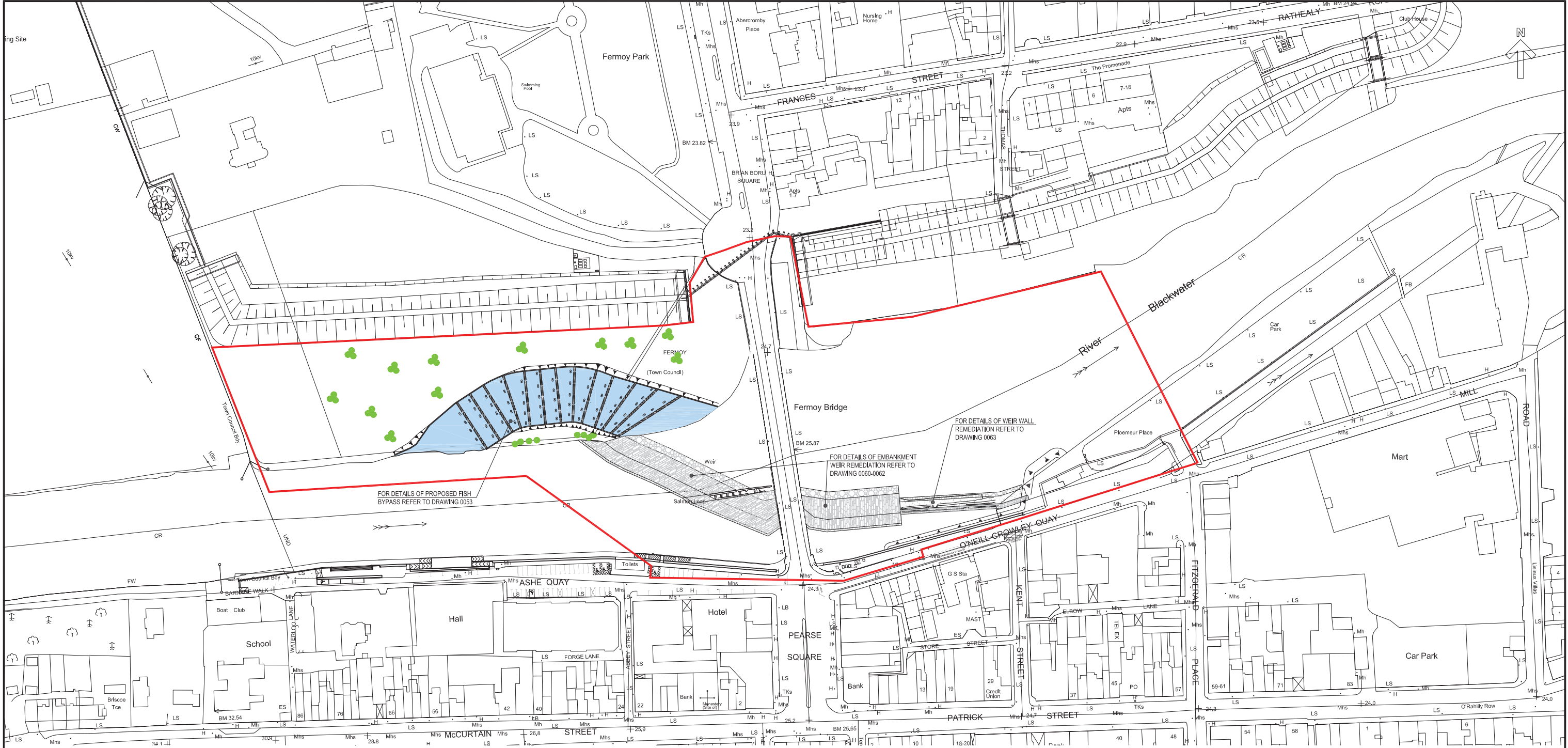
PHOTO 4 - EXISTING BREACHES IN MILL RACE SECTION OF WEIR (LOOKING DOWNSTREAM)



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

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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




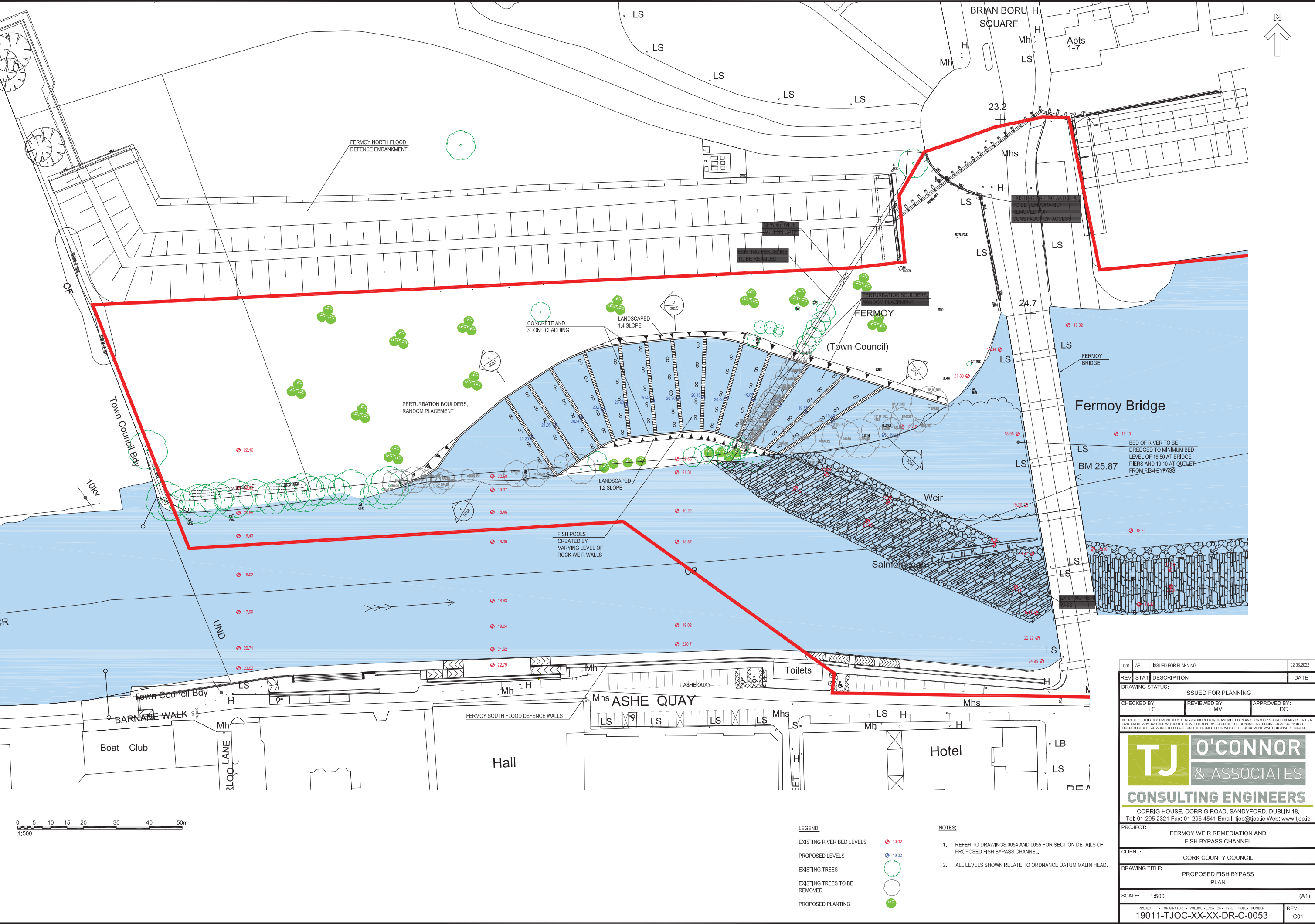
0 10 20 30 40 60 80 100m
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NOTES:

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

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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
- PROPOSED LEVELS
- EXISTING TREES
- EXISTING TREES TO BE REMOVED
- PROPOSED PLANTING

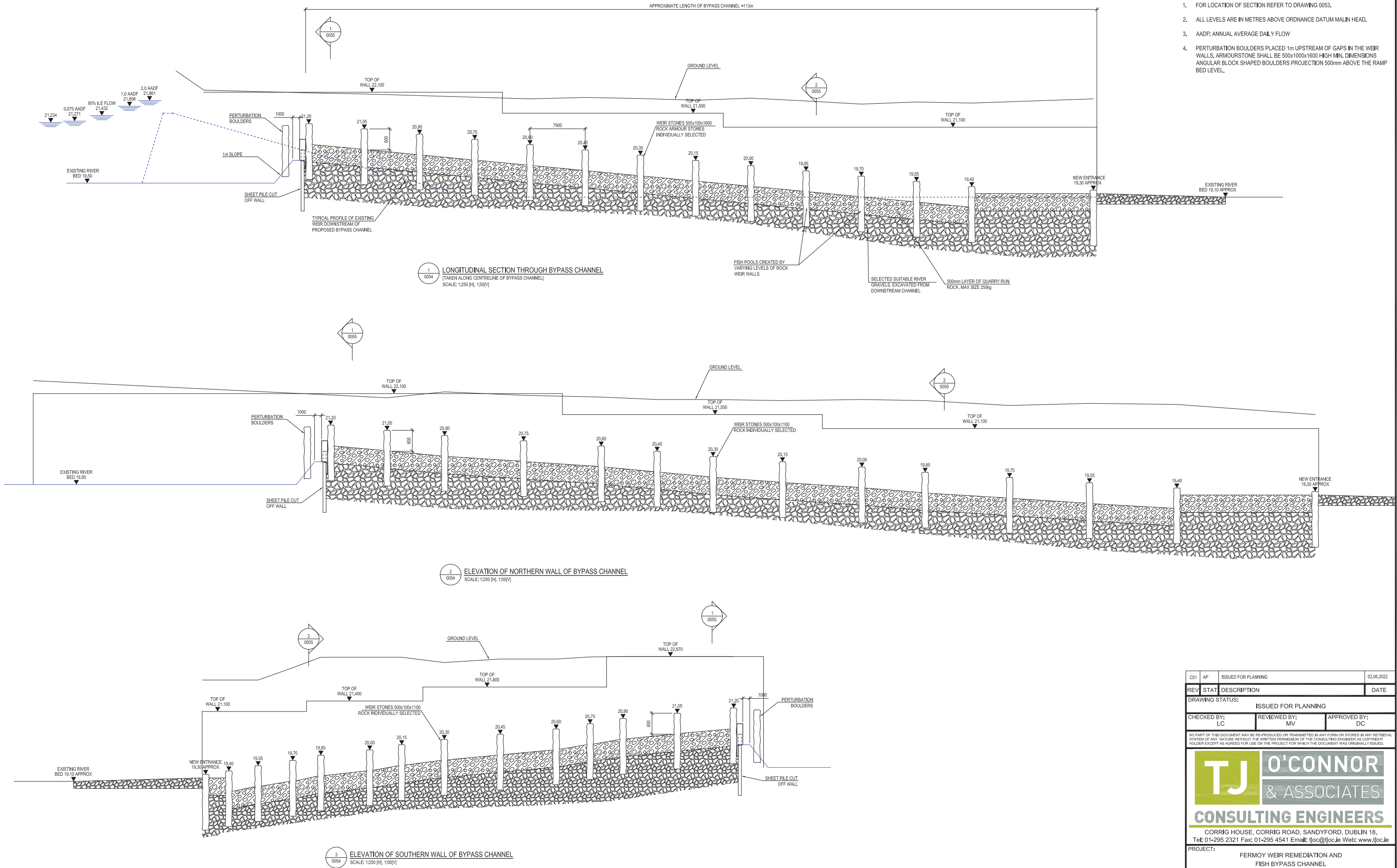
- 19.02
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NOTES:

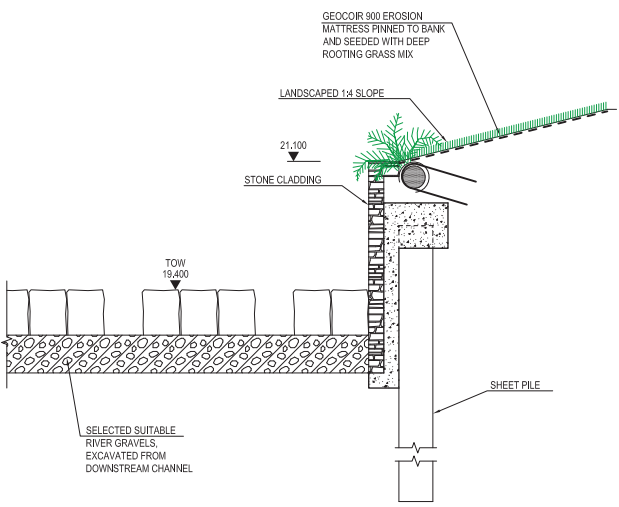
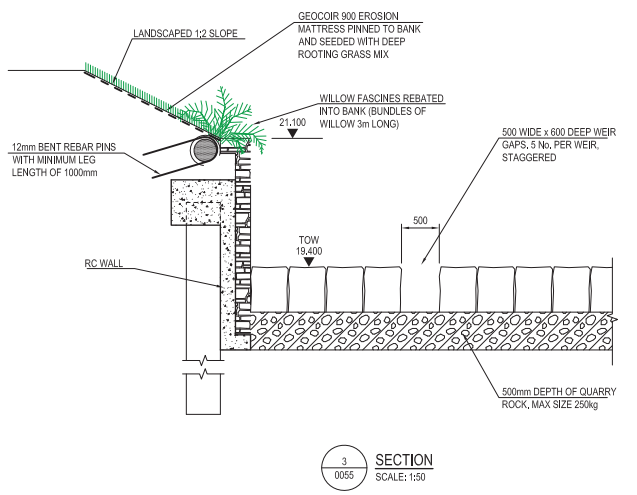
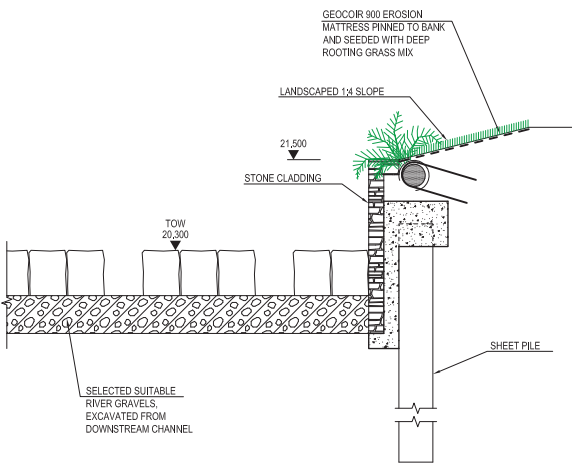
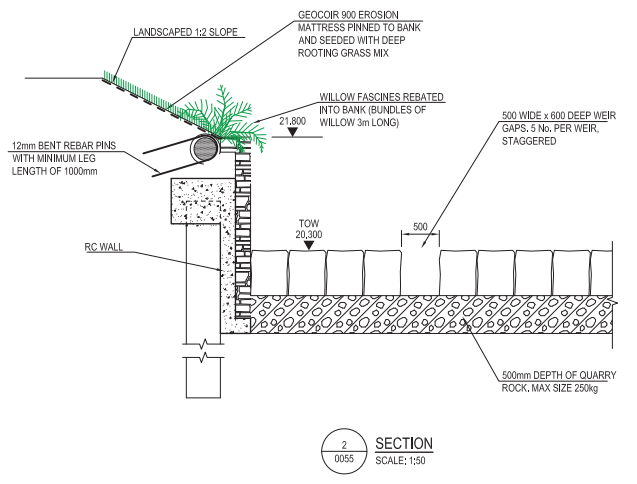
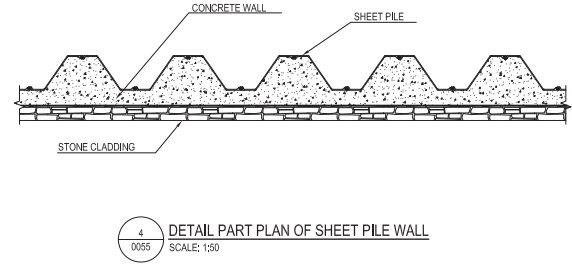
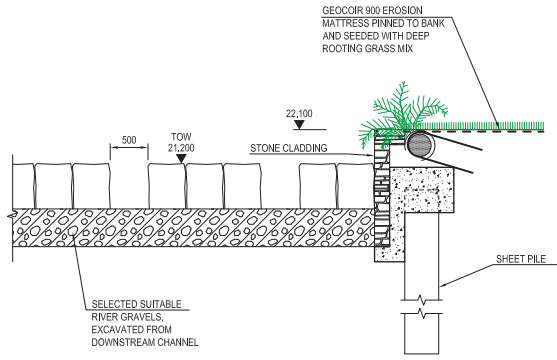
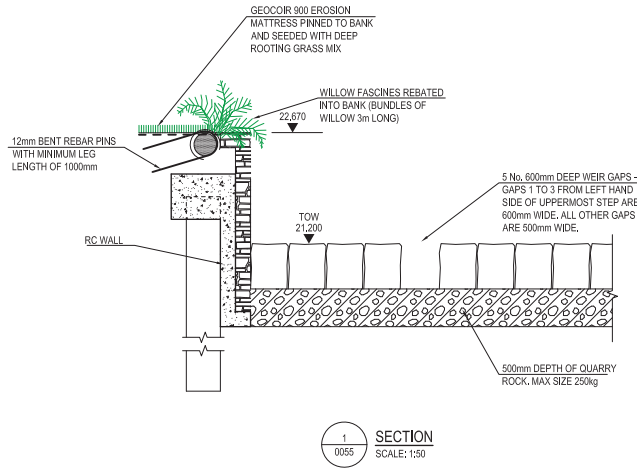
- REFER TO DRAWINGS 0054 AND 0055 FOR SECTION DETAILS OF PROPOSED FISH BYPASS CHANNEL.
- ALL LEVELS SHOWN RELATE TO ORDNANCE DATUM MALIN HEAD.

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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

- NOTES:
- FOR LOCATION OF SECTION REFER TO DRAWING 0053.
 - ALL LEVELS ARE IN METRES ABOVE ORDINANCE DATUM MALIN HEAD.
 - AADF: ANNUAL AVERAGE DAILY FLOW
 - 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.

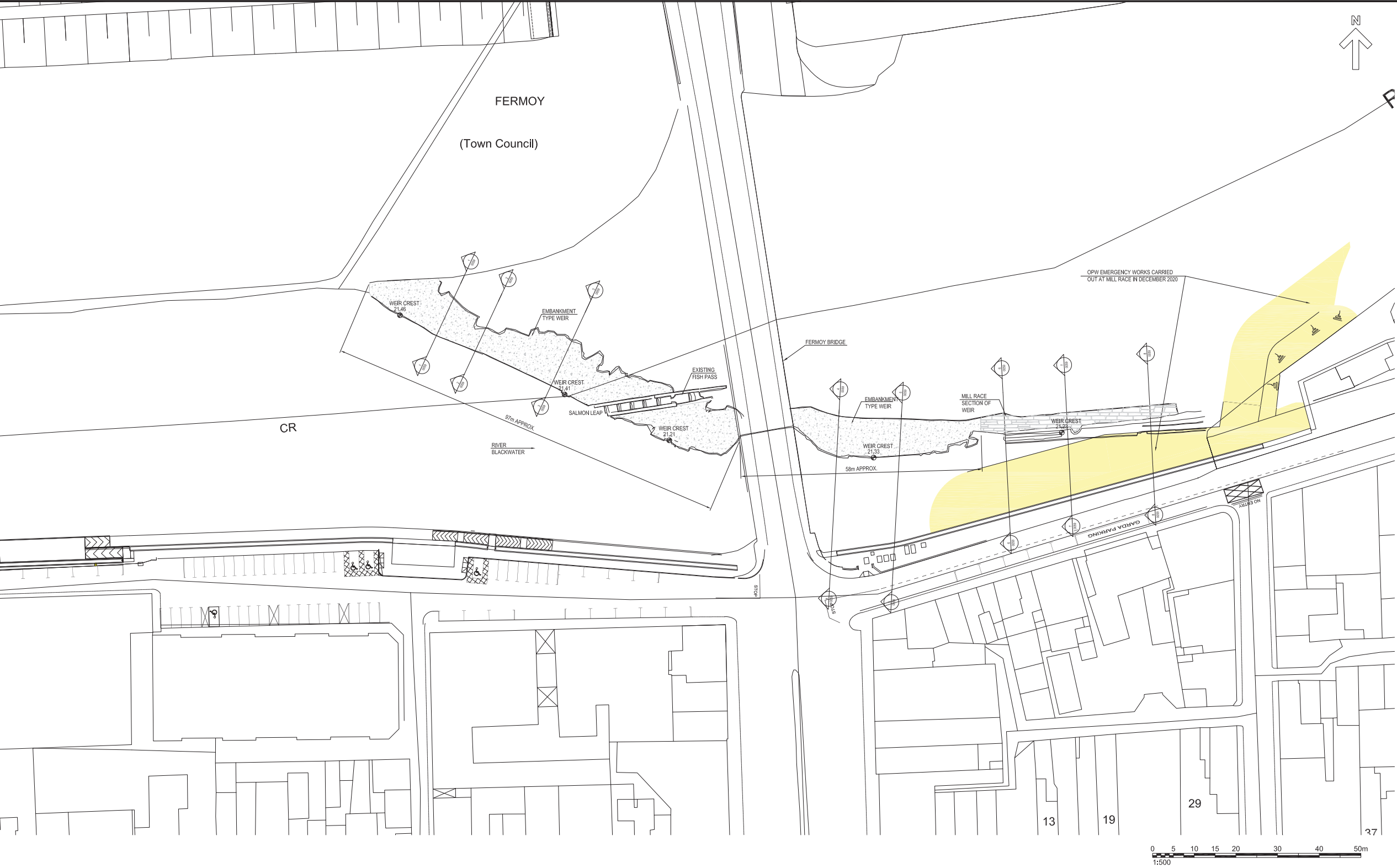


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PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL			
CLIENT: CORK COUNTY COUNCIL			
DRAWING TITLE: PROPOSED FISH BYPASS LONGITUDINAL SECTION			
SCALE: 1:250 [H], 1:50 [V]			(A1)
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 19011-TJOC-XX-XX-DR-C-0054			REV: C01



- NOTES:
- FOR LOCATION OF SECTIONS REFER TO DRAWING 0053.
 - ALL LEVELS ARE IN METERS ABOVE ORDINANCE DATUM MALIN HEAD

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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 190111-TJOC-XX-XX-DR-C-0055			REV: C01



- NOTES:
1. EXTENT OF EXISTING WEIR BASE ON TOPOGRAPHICAL SURVEY UNDERTAKEN BY MURPHY GEOSPACIAL IN AUGUST 2016.
 2. FOR SECTIONS THROUGH EXISTING WEIR REFER TO DRAWING 0059.
- APPROXIMATE EXTENT OF BED STABILISATION WORKS UNDERTAKEN BY THE OPW IN 2020

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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

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(CORK CCMA 9802)

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

1
0059
EXISTING EMBANKMENT WEIR SECTION
SCALE: 1:100

2
0059
EXISTING EMBANKMENT WEIR SECTION
SCALE: 1:100

3
0059
EXISTING EMBANKMENT WEIR SECTION
SCALE: 1:100

4
0059
EXISTING EMBANKMENT WEIR SECTION
SCALE: 1:100

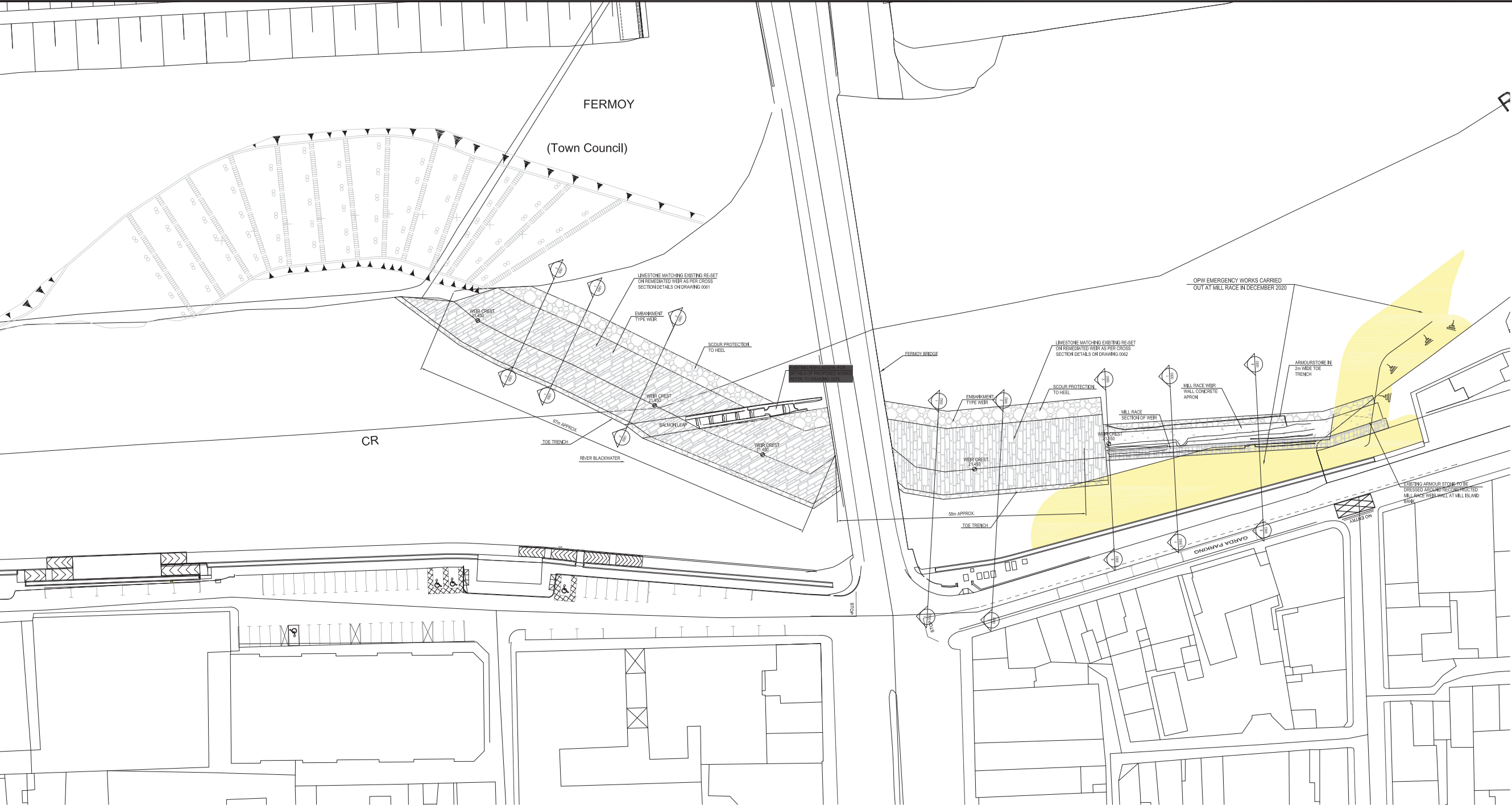
5
0059
EXISTING EMBANKMENT WEIR SECTION
SCALE: 1:100

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

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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 190111-TJOC-PL-XX-DR-C-0059			REV: C01



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

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REV	SUIT	DESCRIPTION	DATE
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DRAWING STATUS:			
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ISSUED FOR PLANNING			
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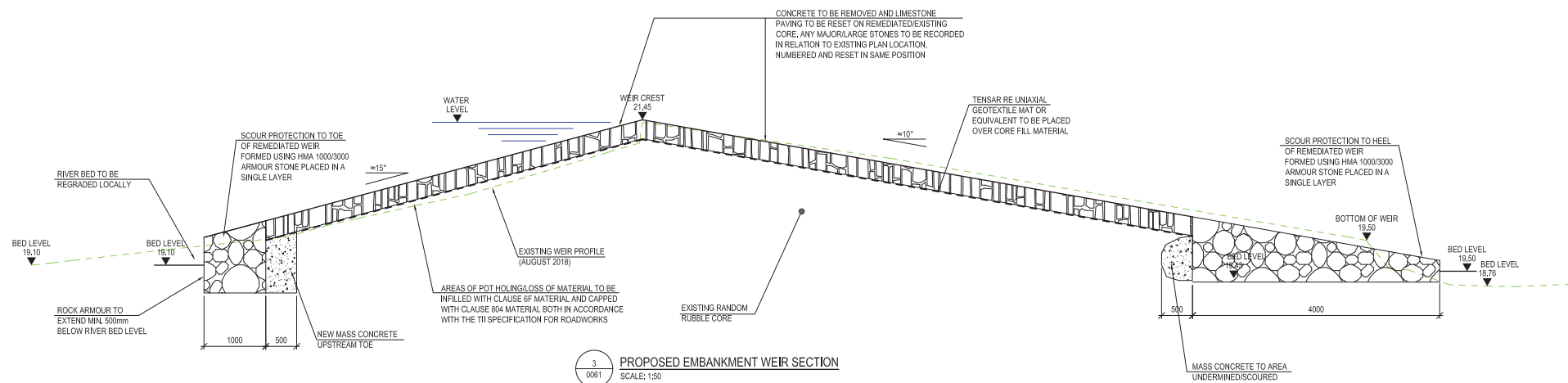
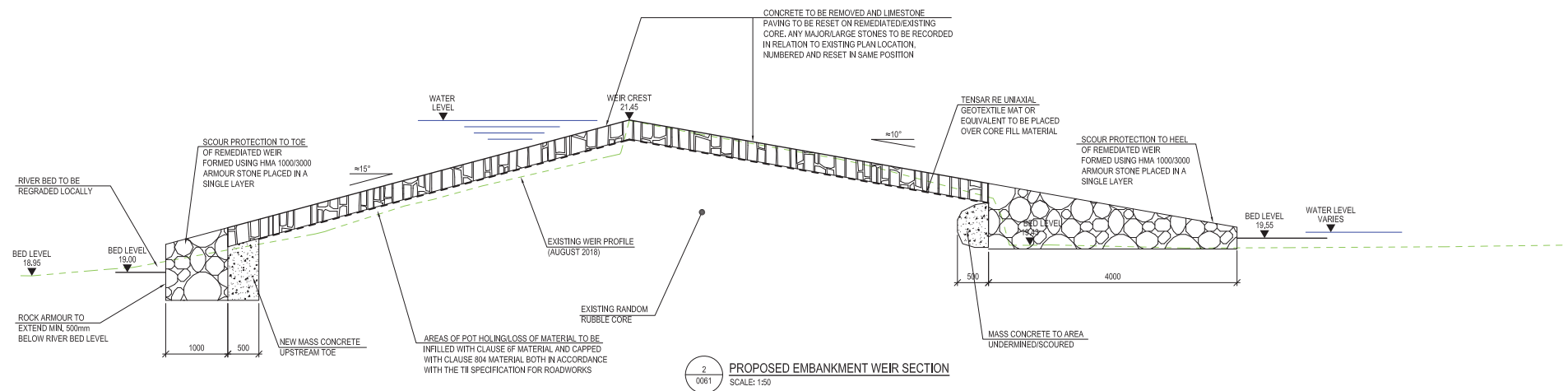
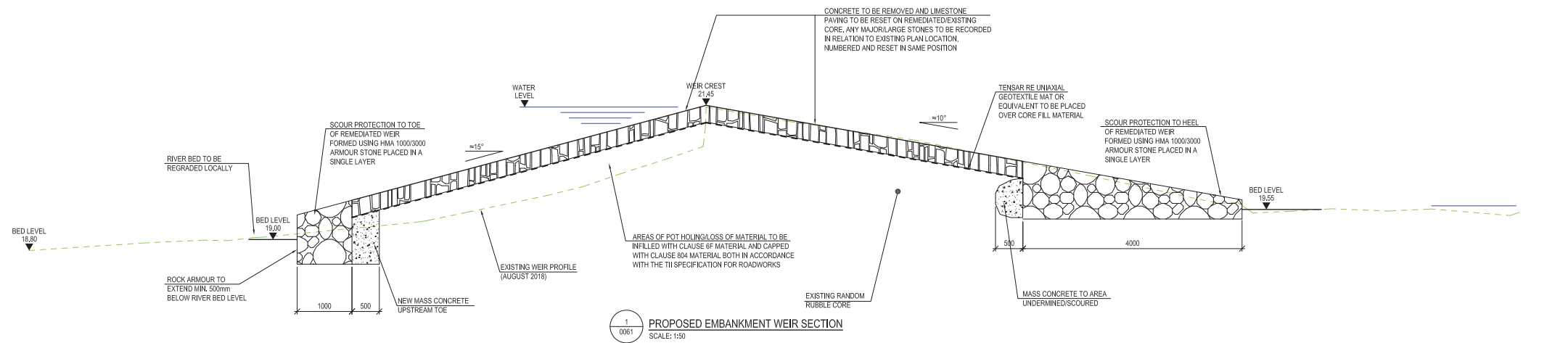
PROJECT:	FERMOY EMBANKMENT WEIR REMEDIATION AND FISH BYPASS CHANNEL
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CLIENT:	CORK COUNTY COUNCIL
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DRAWING TITLE:	WEIR REMEDIATION PLAN OF PROPOSED WEIR
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SCALE:	1:500	(A1)
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PROJECT	ORIGINATOR	VOLUME	LOCATION	TYPE	ROLE	NUMBER	REV:
19011-TJOC-PL-XX-DR-C-0060							C01



NOTES:

1. ALL LEVELS SHOWN ARE IN METERS ABOVE ORDINANCE 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.

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TJ

O'CONNOR
& ASSOCIATES
CONSULTING ENGINEERS

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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

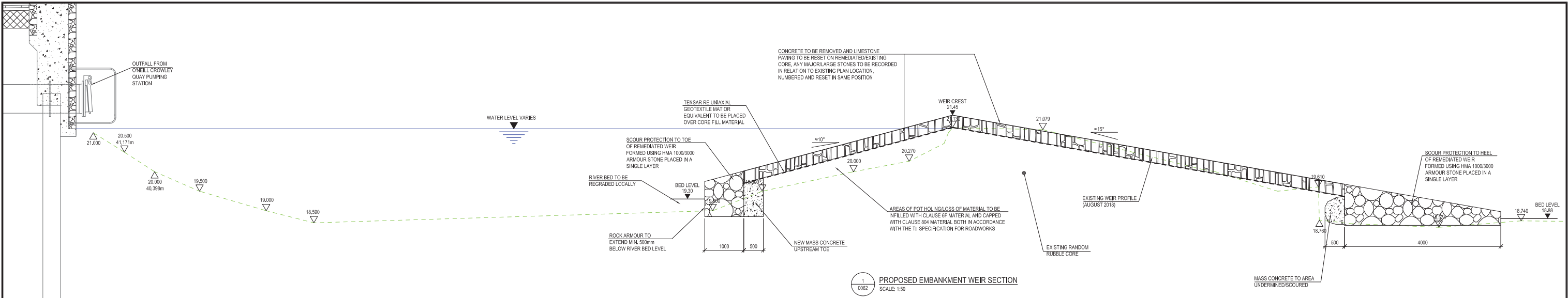
CLIENT: CORK COUNTY COUNCIL

DRAWING TITLE: WEIR REMEDIATION PROPOSED SECTIONS

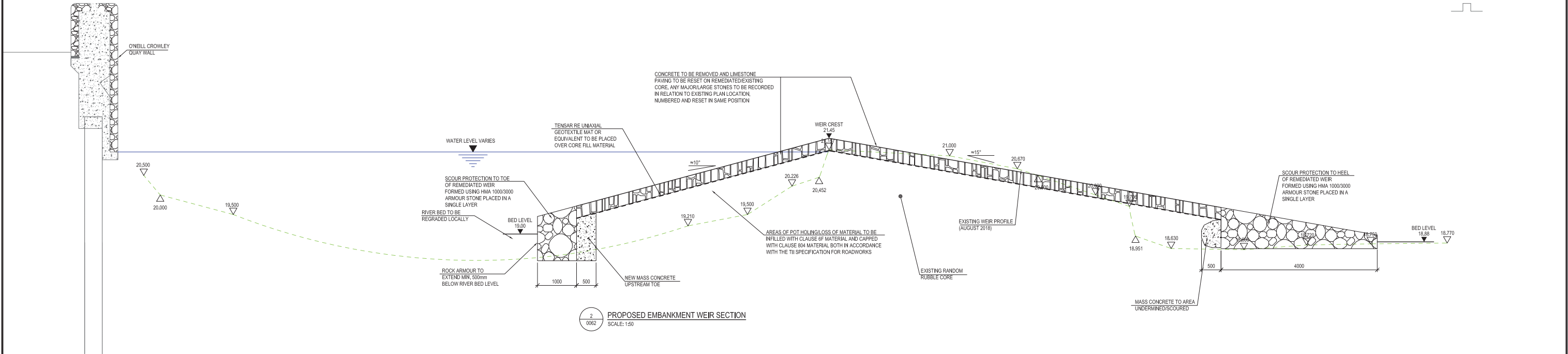
SCALE: AS SHOWN (A1)

PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER
190111-TJOC-PL-XX-DR-C-0061

REV: C01



1
0062
PROPOSED EMBANKMENT WEIR SECTION
SCALE: 1:50

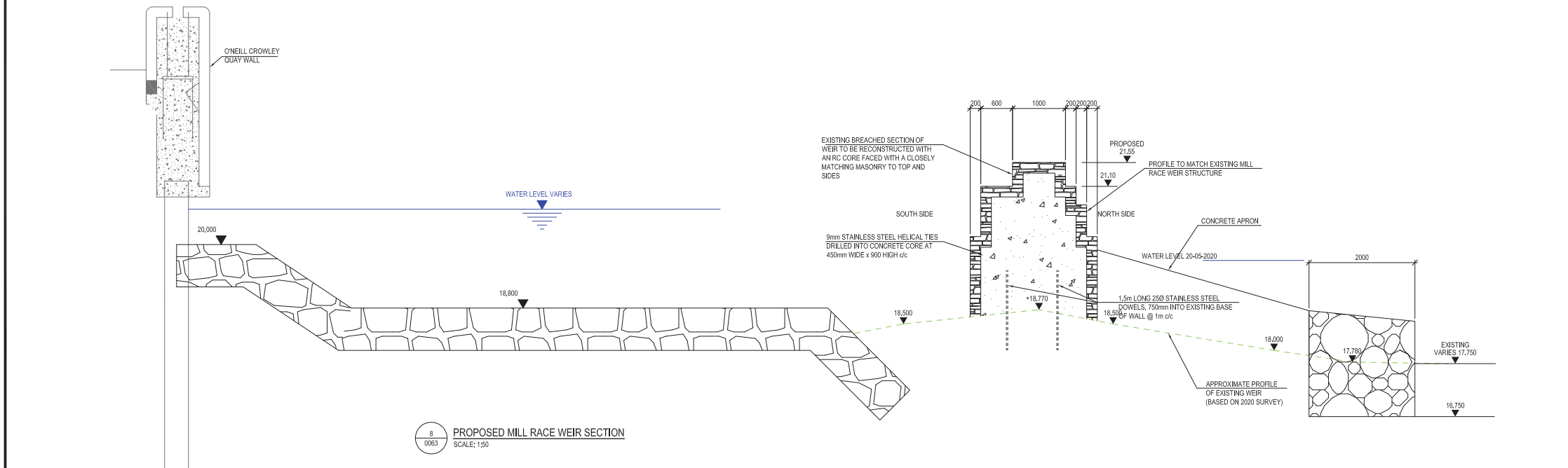
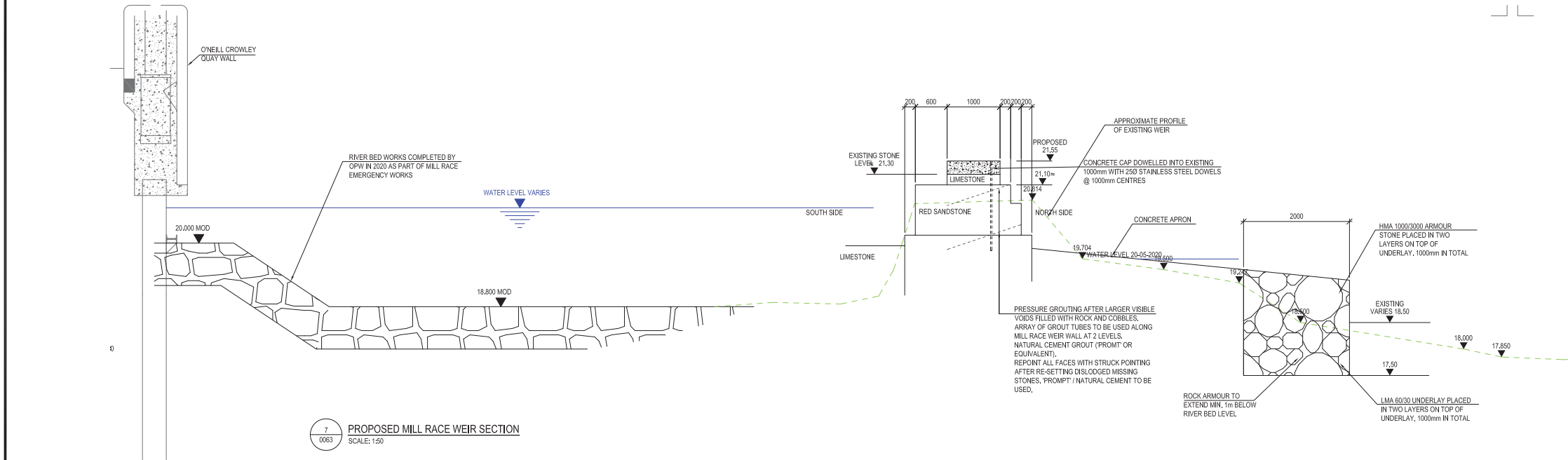
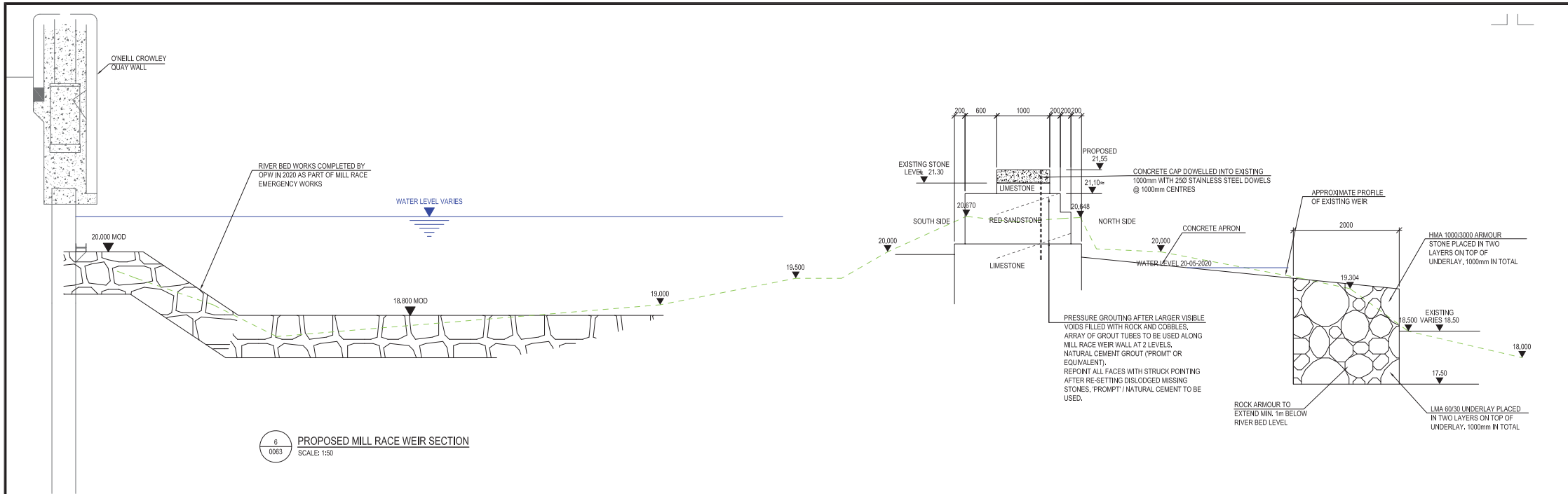


2
0062
PROPOSED EMBANKMENT WEIR SECTION
SCALE: 1:50

NOTES:

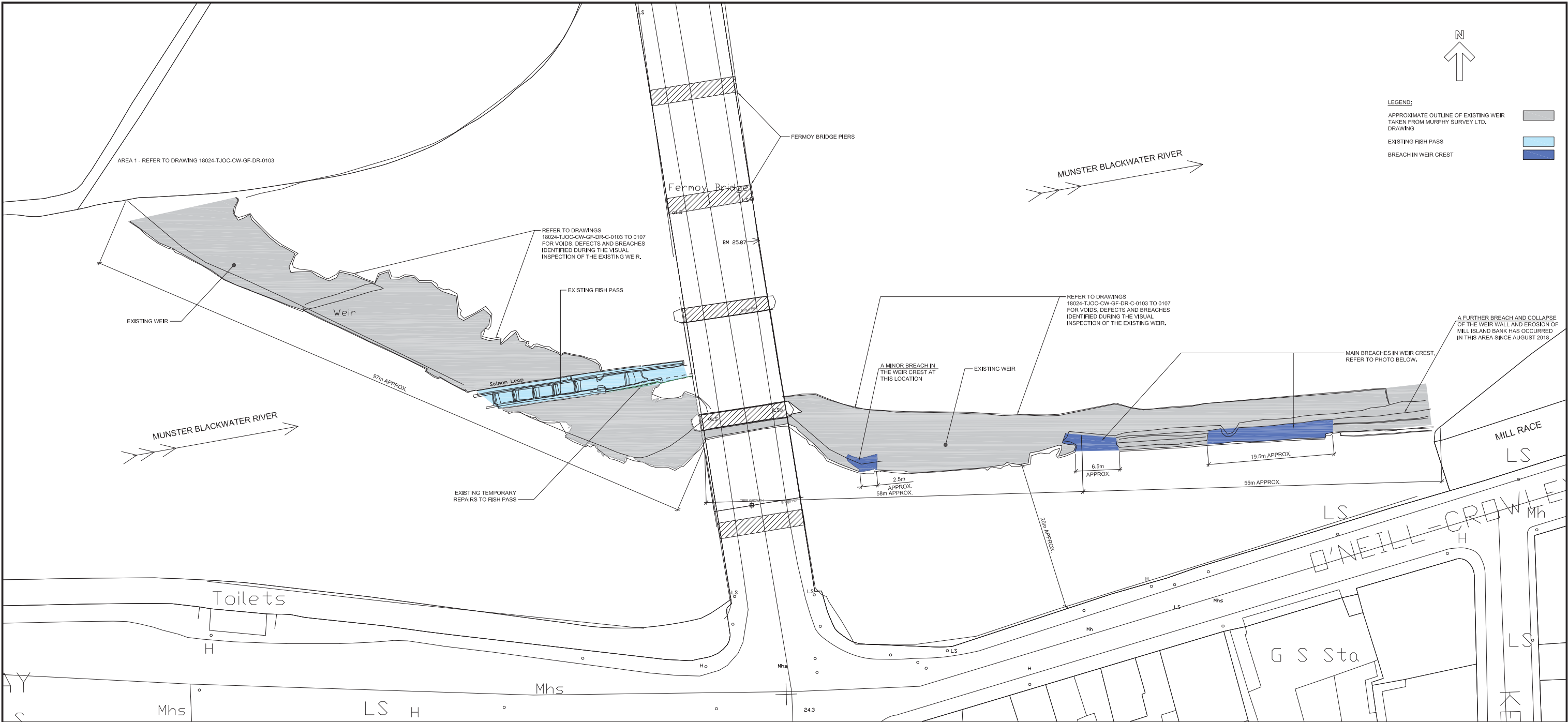
- ALL LEVELS SHOWN ARE IN METERS ABOVE ORDNANCE DATUM, MALIN HEAD.
- FOR LOCATIONS OF SECTIONS REFER TO DRAWING 0060.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SURVEY DRAWINGS OF EXISTING WEIR STRUCTURE AND WITH SECTION DRAWINGS 0061 AND 0063.
- WEIR REMEDIATION SHALL BE UNDERTAKEN IN ACCORDANCE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

C01	AP	ISSUED FOR PLANNING	02.06.2022
REV	SUIT	DESCRIPTION	DATE
DRAWING STATUS: ISSUED FOR PLANNING			
CHECKED BY:	LC	REVIEWED BY:	MV
		APPROVED BY:	DC
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<div><div>TJ</div><div>O'CONNOR & ASSOCIATES</div><div>CONSULTING ENGINEERS</div></div>			
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.

C01	AP	ISSUED FOR PLANNING	02.06.2022
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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



1
0073
EXISTING WEIR LAYOUT
SCALE: 1:300






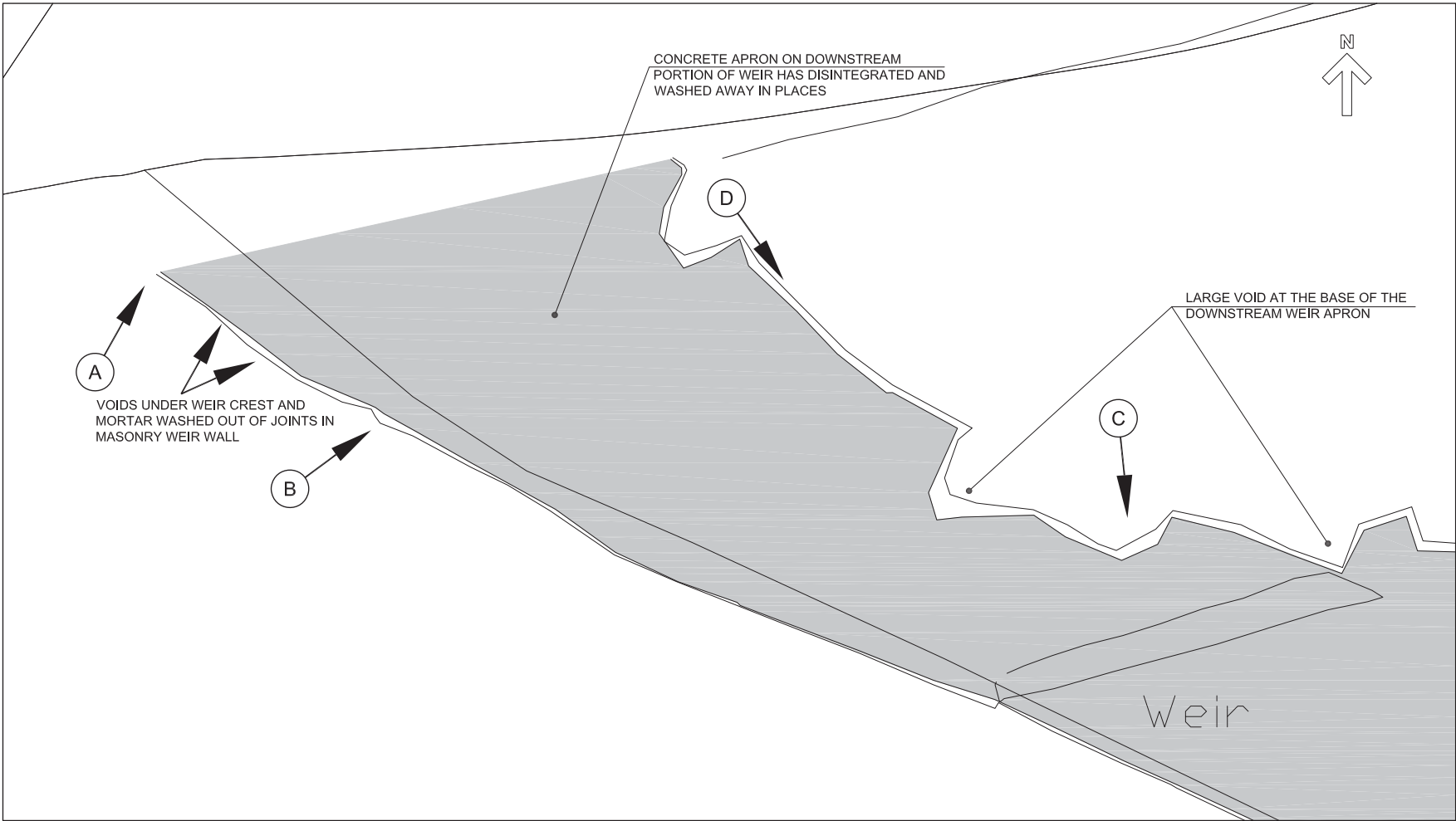
2
0073
PHOTO OF EXISTING WEIR ON EAST SIDE OF FERMOY BRIDGE



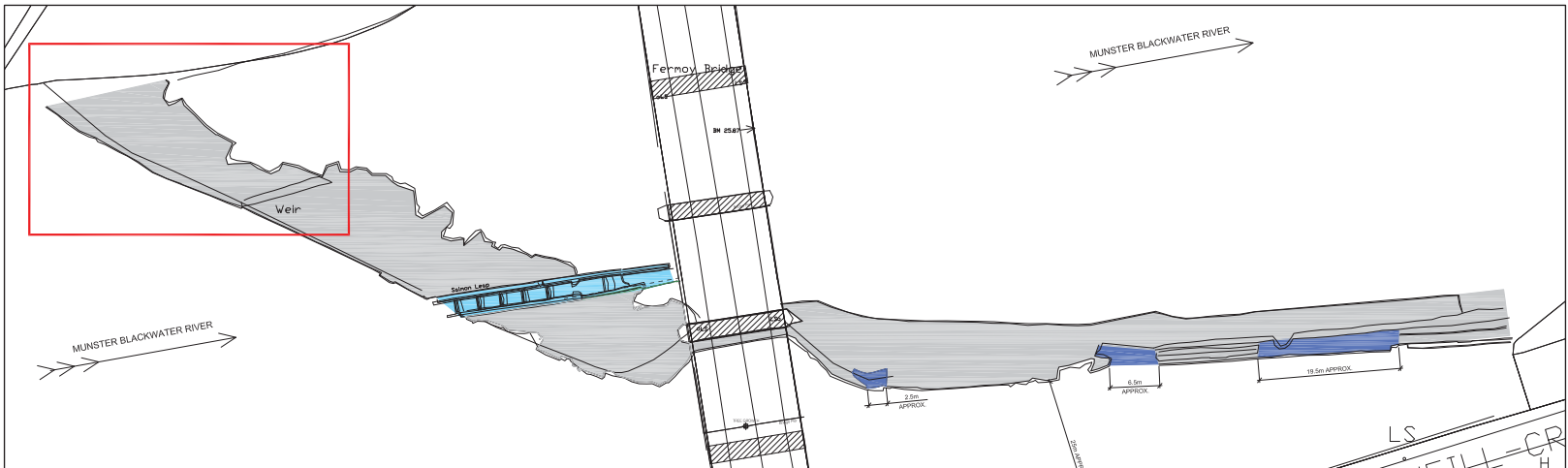
3
0073
AERIAL PHOTO OF FERMOY WEIR

- 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.

C01	AP	ISSUED FOR PLANNING	02.06.2022
REV	SUIT	DESCRIPTION	DATE
DRAWING STATUS:			
ISSUED FOR PLANNING			
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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 EXISTING WEIR LAYOUT - AREA 1
SCALE: 1:100



2 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





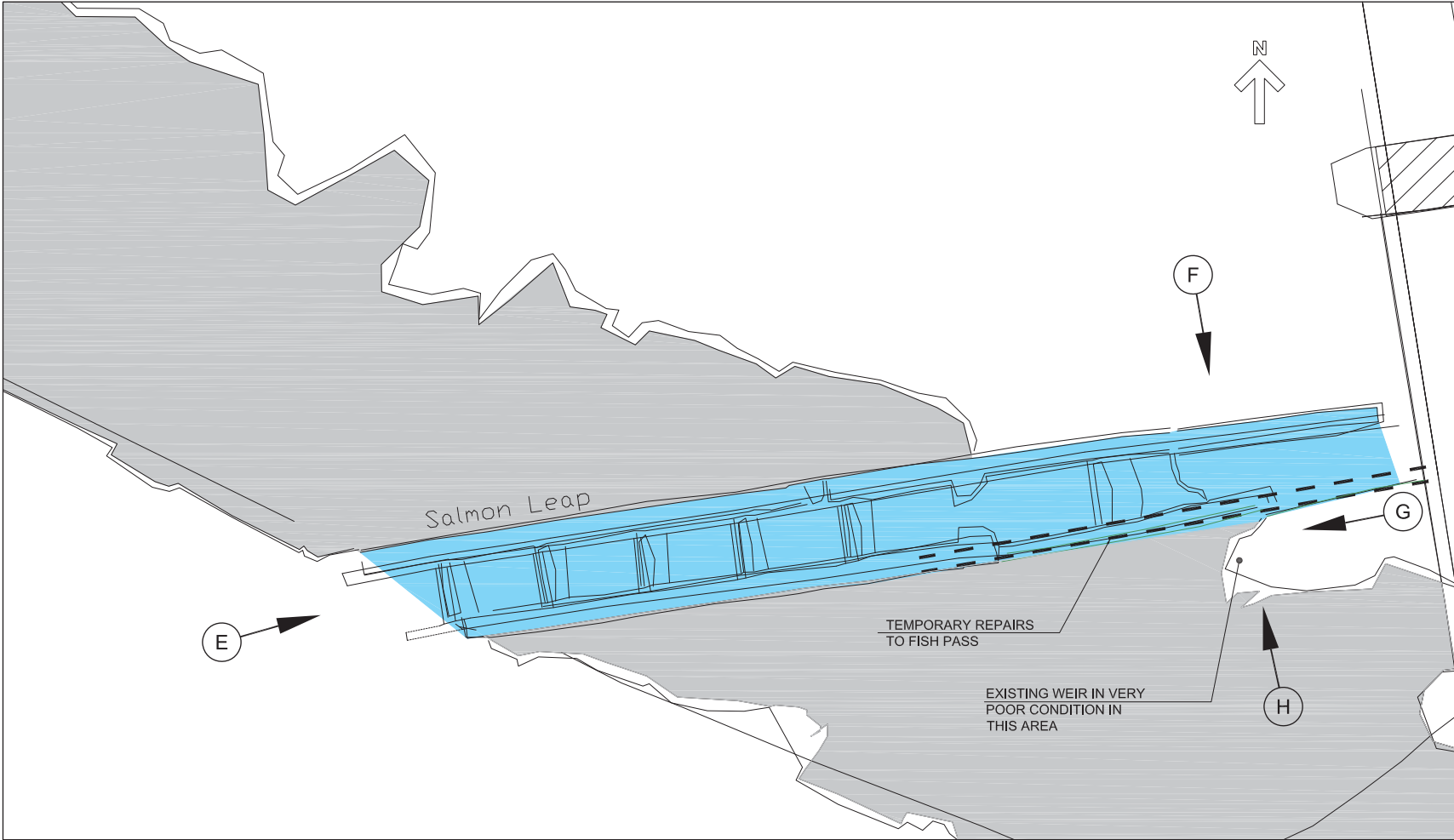
C 0074 LARGE VOID AT THE BASE OF THE DOWNSTREAM WEIR APRON



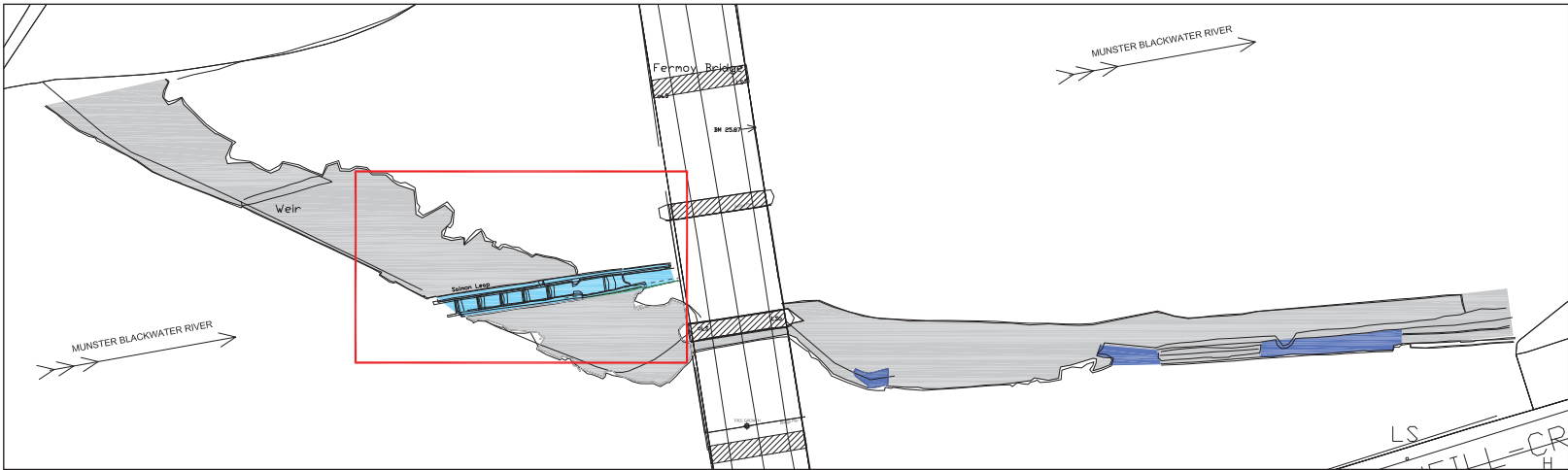
D 0074 CONCRETE APRON OF WEIR HAS DISINTEGRATED AND WASHED AWAY IN PLACES

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.

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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.

C01	AP	ISSUED FOR PLANNING	02.06.2022
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REV	SUIT	DESCRIPTION	DATE
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DRAWING STATUS: ISSUED FOR PLANNING

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

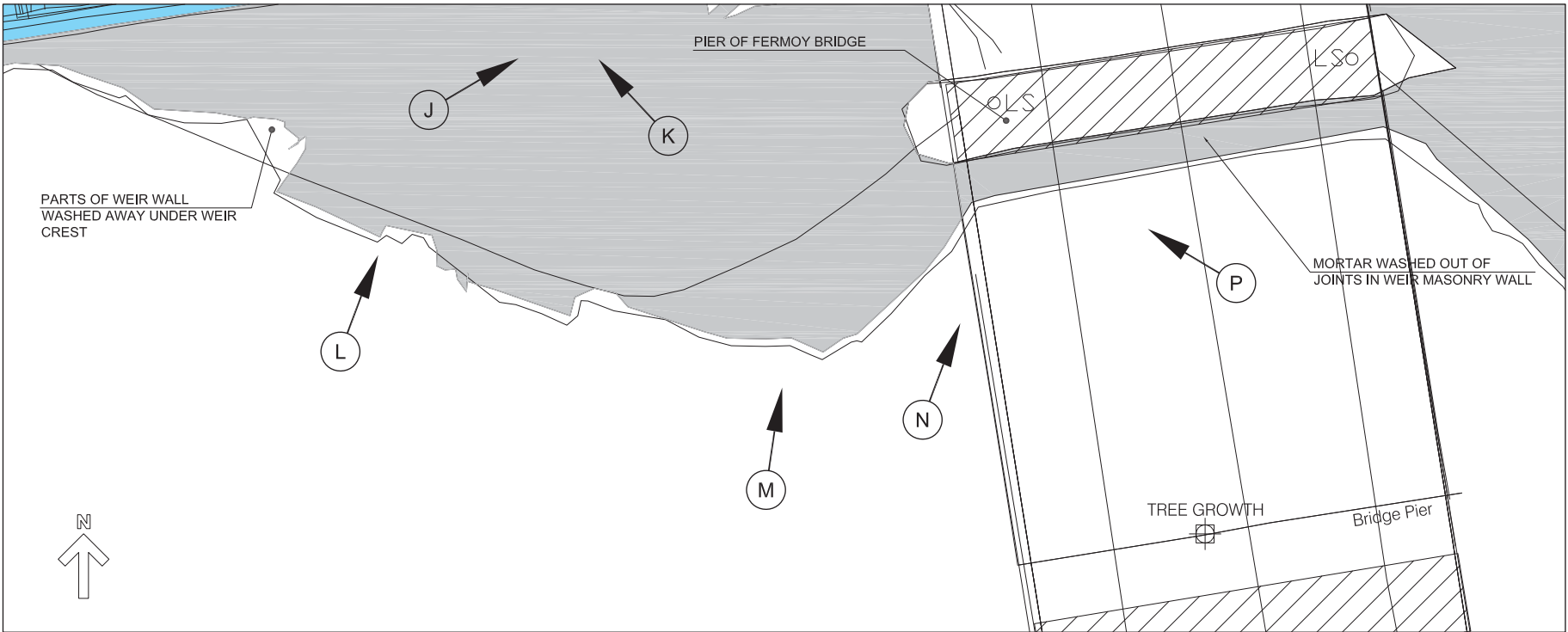
DRAWING TITLE:

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 EXISTING WEIR LAYOUT - AREA 3
SCALE: 1:100



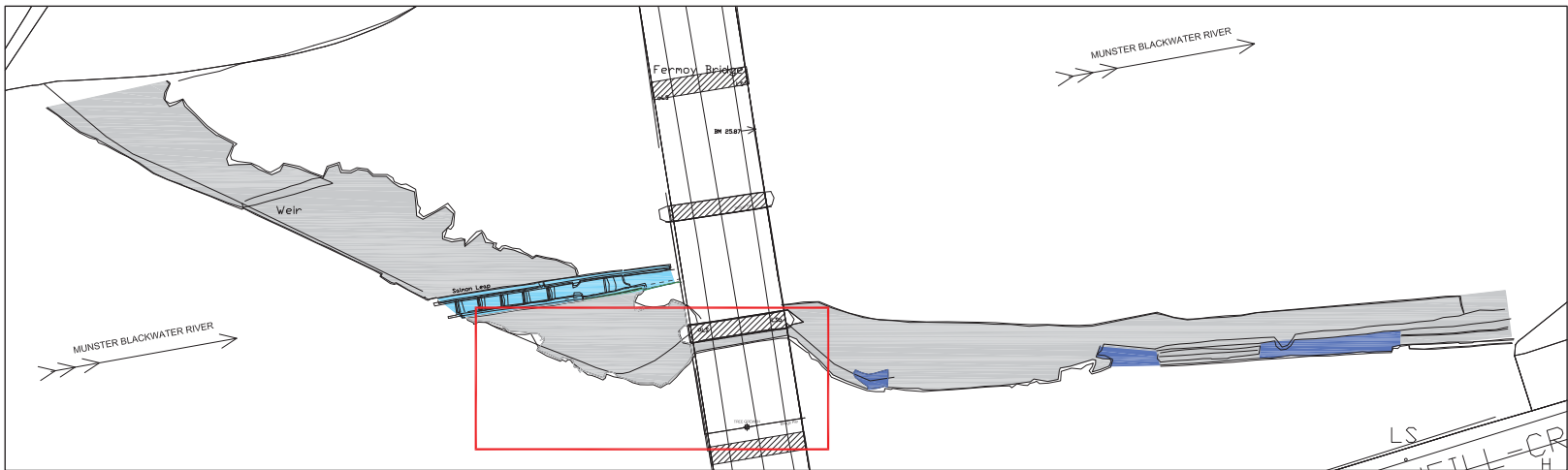
M PART OF WEIR WALL WASHED AWAY UNDER WEIR CREST



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



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



2 KEYPLAN - AREA 3
SCALE: 1:500



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






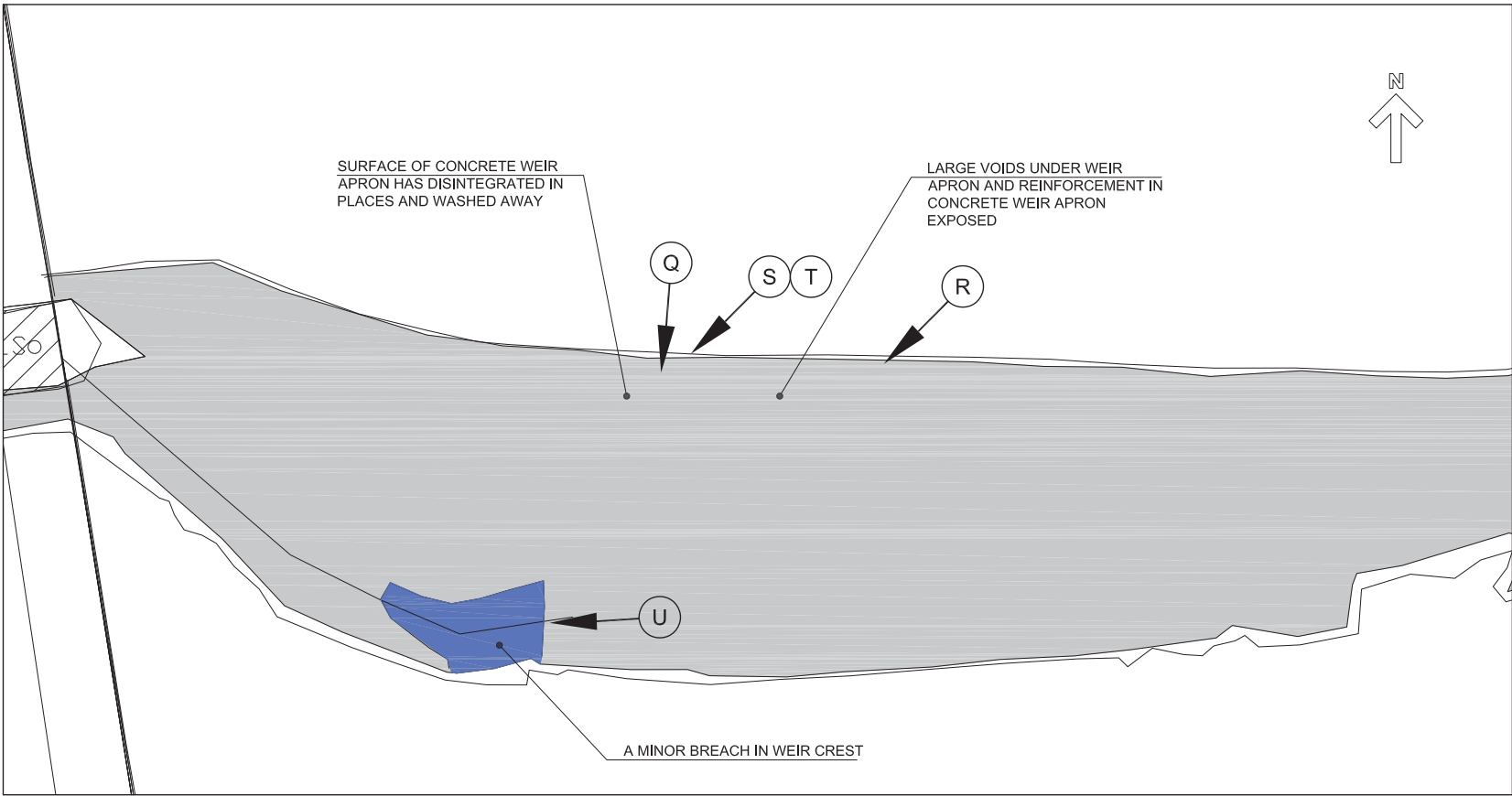
K WEIR APRON DISINTEGRATED AND WASHED AWAY AT JUNCTION WITH FISH PASS



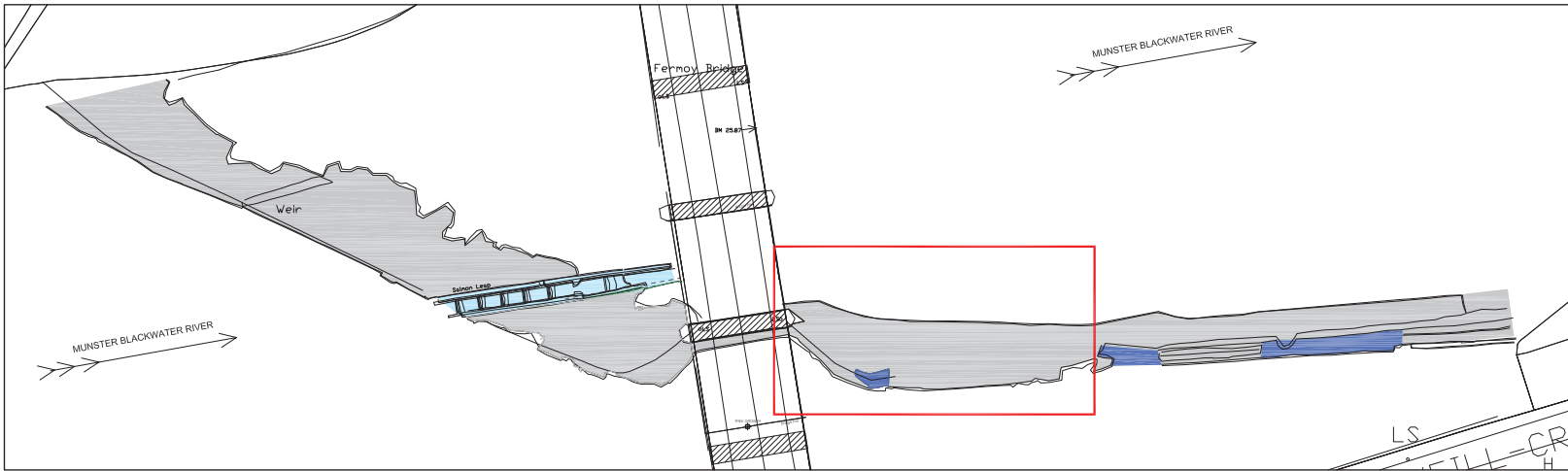
L PART OF WEIR WALL WASHED AWAY UNDER WEIR CREST

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.

C01	AP	ISSUED FOR PLANNING	02.06.2022
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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 EXISTING WEIR LAYOUT - AREA 4
SCALE: 1:100



2 KEYPLAN - AREA 4
SCALE: 1:500



Q SURFACE OF CONCRETE WEIR APRON HAS
DISINTEGRATED IN PLACES



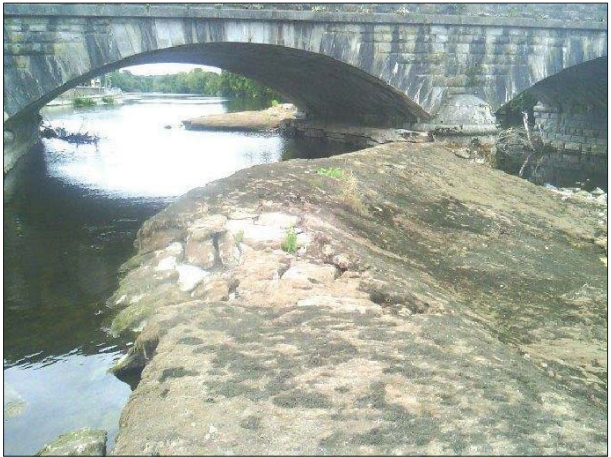
R LARGE VOIDS UNDER CONCRETE WEIR APRON



S REINFORCEMENT EXPOSED AND CORRODED
UNDER WEIR APRON



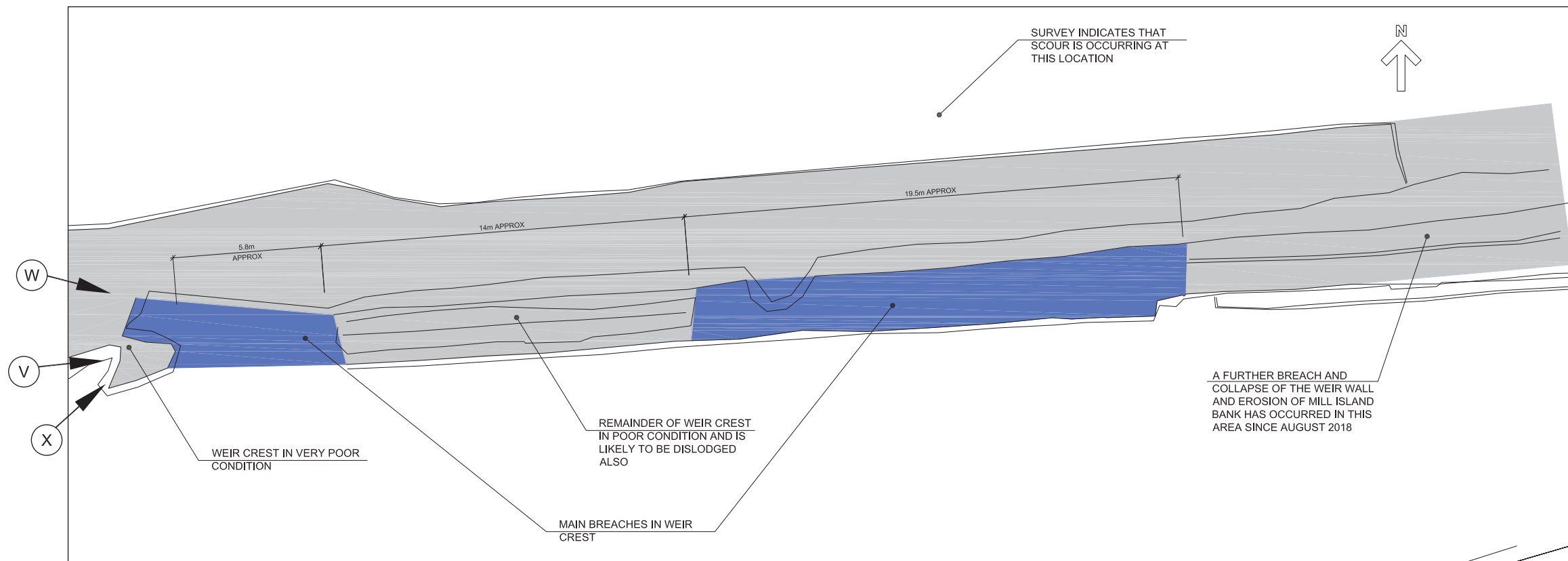
T LARGE VOIDS UNDER CONCRETE WEIR APRON,
REINFORCEMENT EXPOSED AND CORRODED



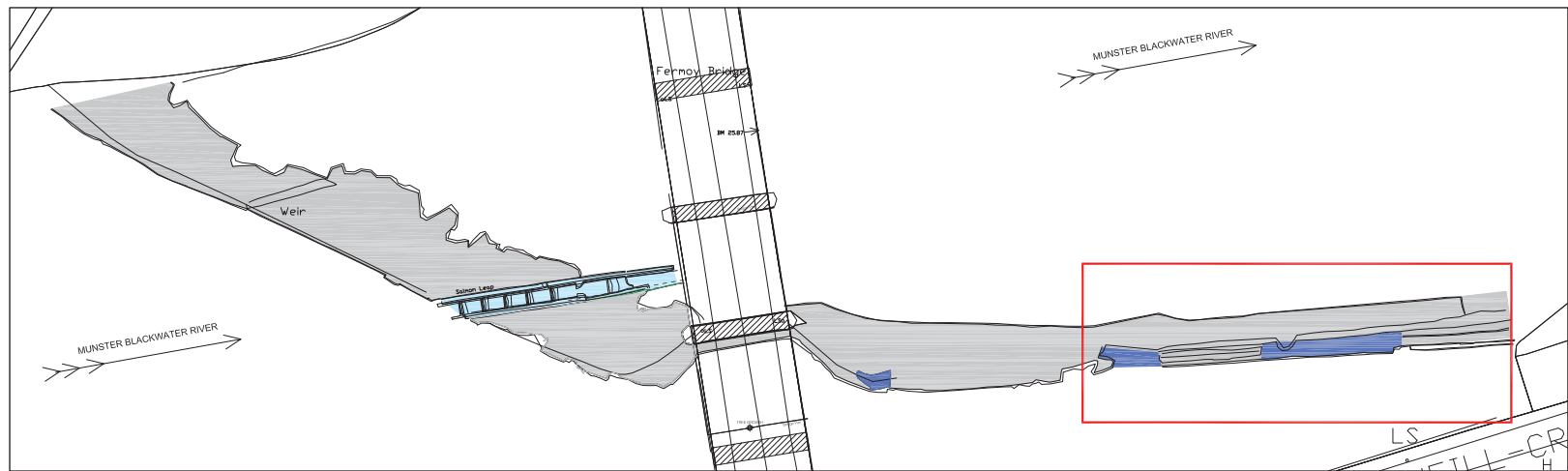
U MINOR BREACH IN WEIR CREST

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.

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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



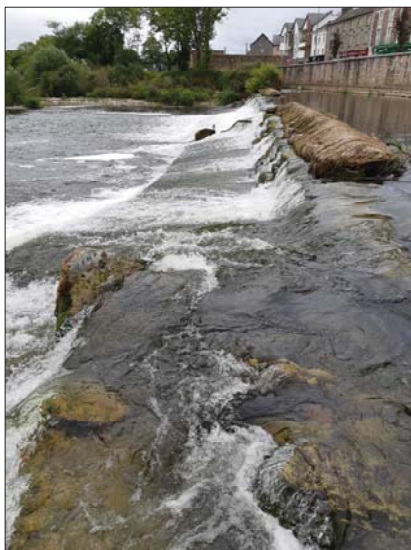
1
0078
EXISTING WEIR LAYOUT - AREA 5
SCALE: 1:100



2
0078
KEYPLAN - AREA 5
SCALE: 1:500



V
0078
VIEW OF WEIR CREST





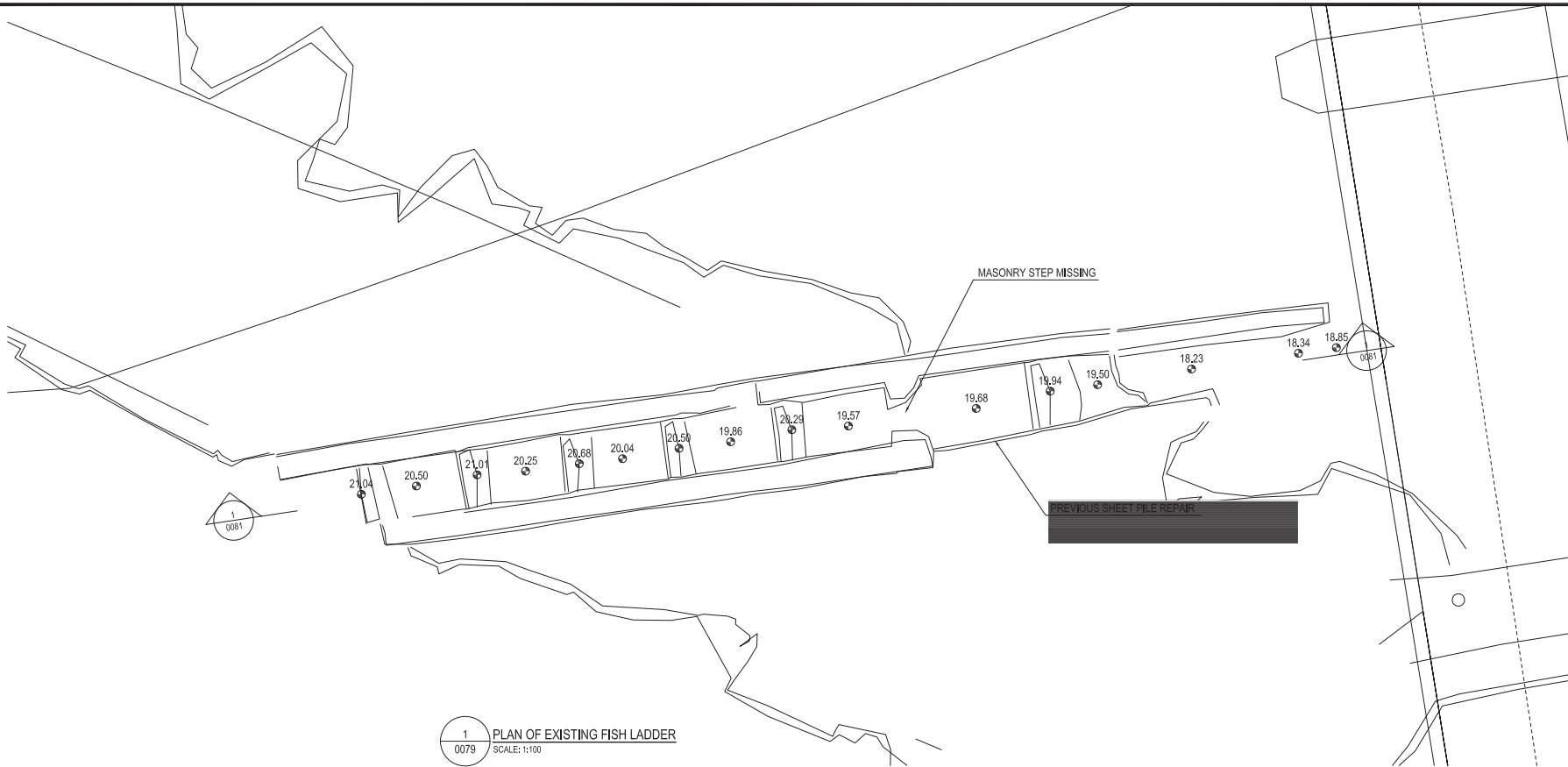
W
0078
VIEW OF WEIR CREST AND DOWNSTREAM APRON



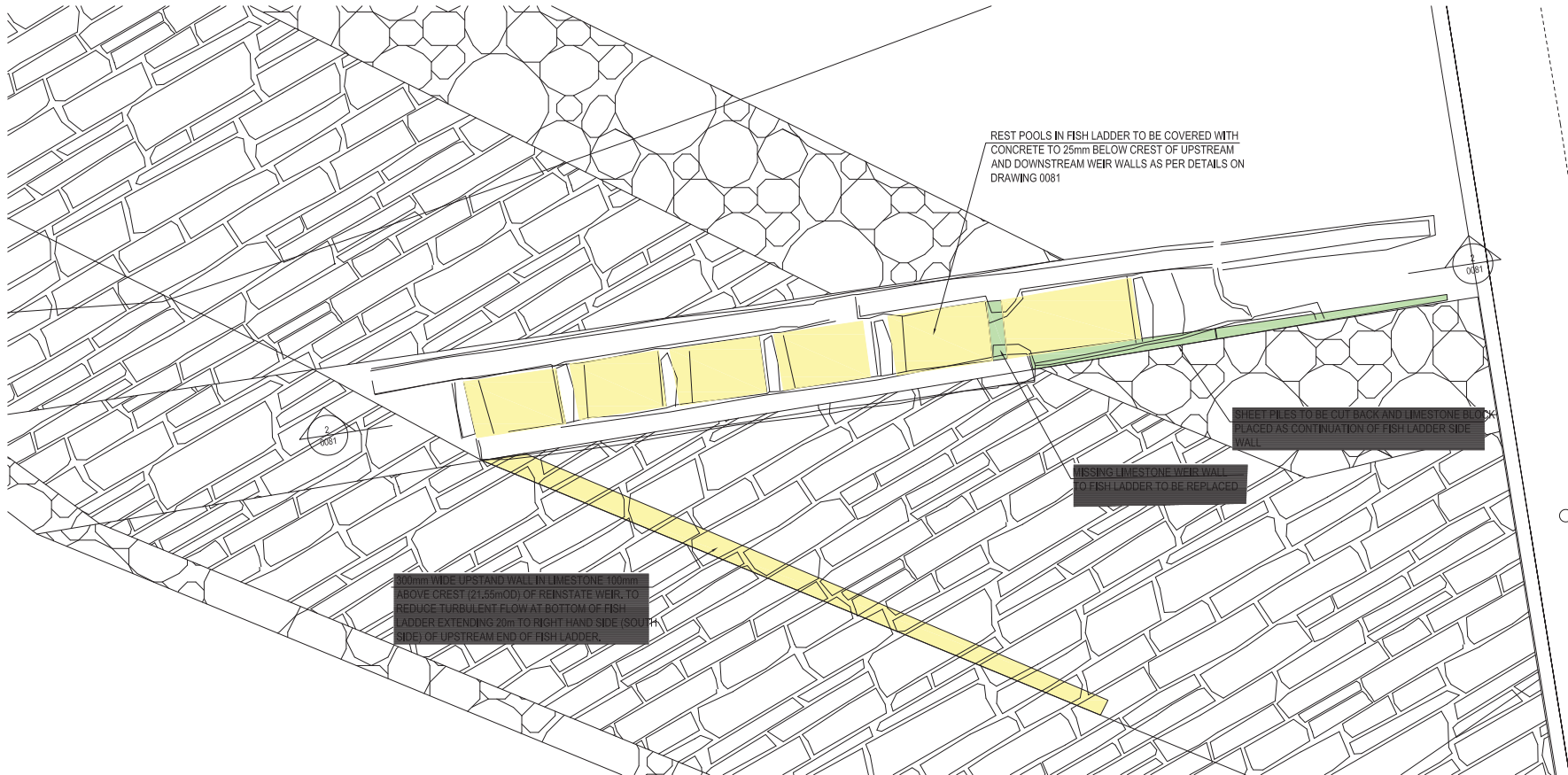
X
0078
VIEW OF WEIR CREST CONDITION

- NOTES:
- 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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CONSULTING ENGINEERS			
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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. 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

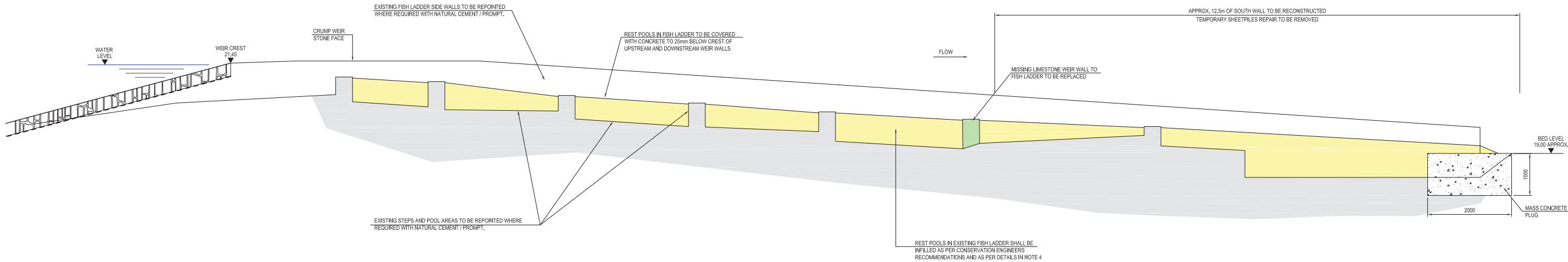
MAP REPRODUCED BY PERMISSION OF
ORDNANCE SURVEY IRELAND
(CORK CCMA 9802)

C01	AP	ISSUED FOR PLANNING	02.06.2022
REV	STAT	DESCRIPTION	DATE
DRAWING STATUS: ISSUED FOR PLANNING			
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		APPROVED BY:	DC
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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



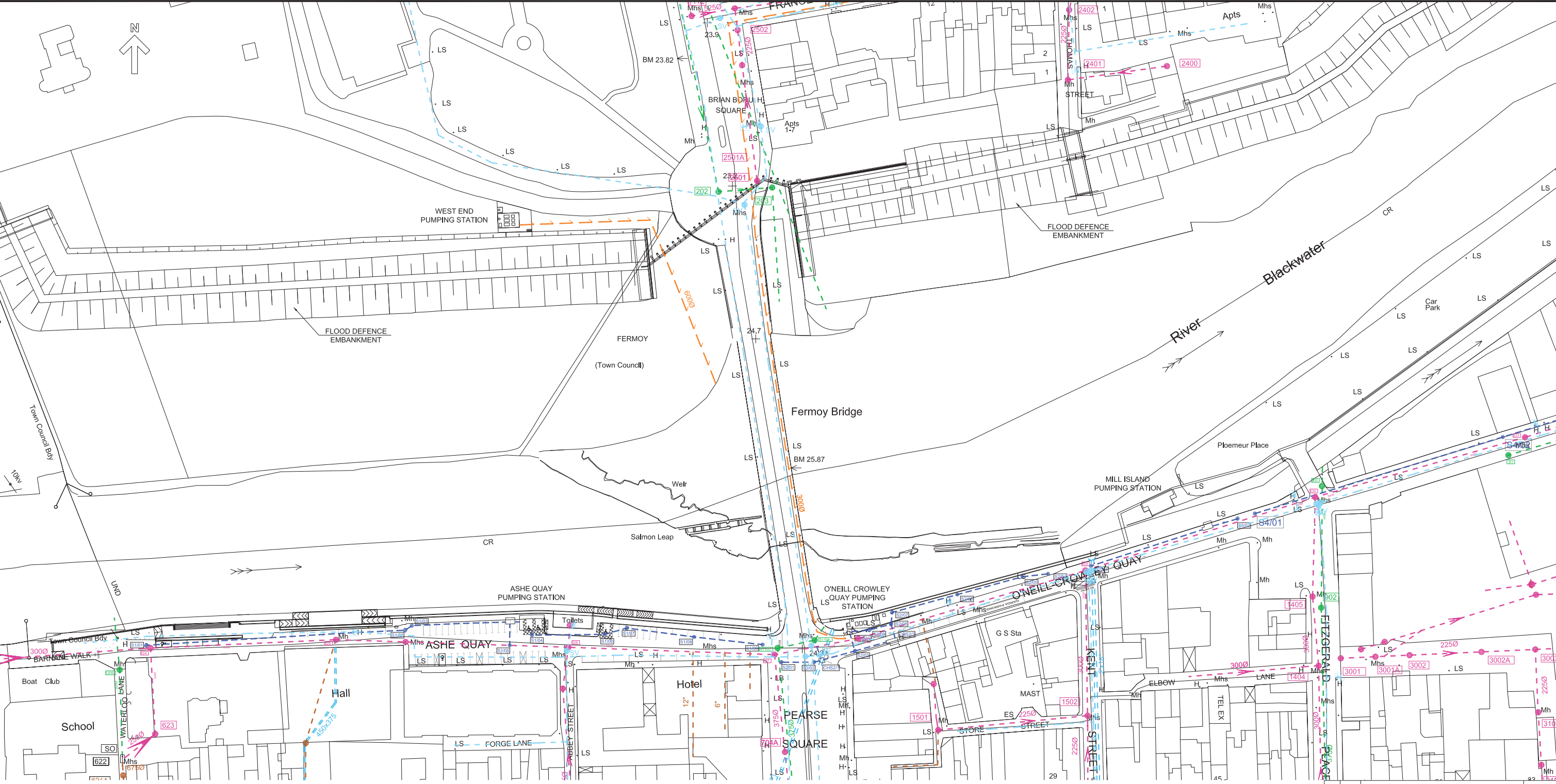
1
0081
EXISTING FISH LADDER SECTION
SCALE: 150

- 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 6P 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 PATTERNL.
 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: 150

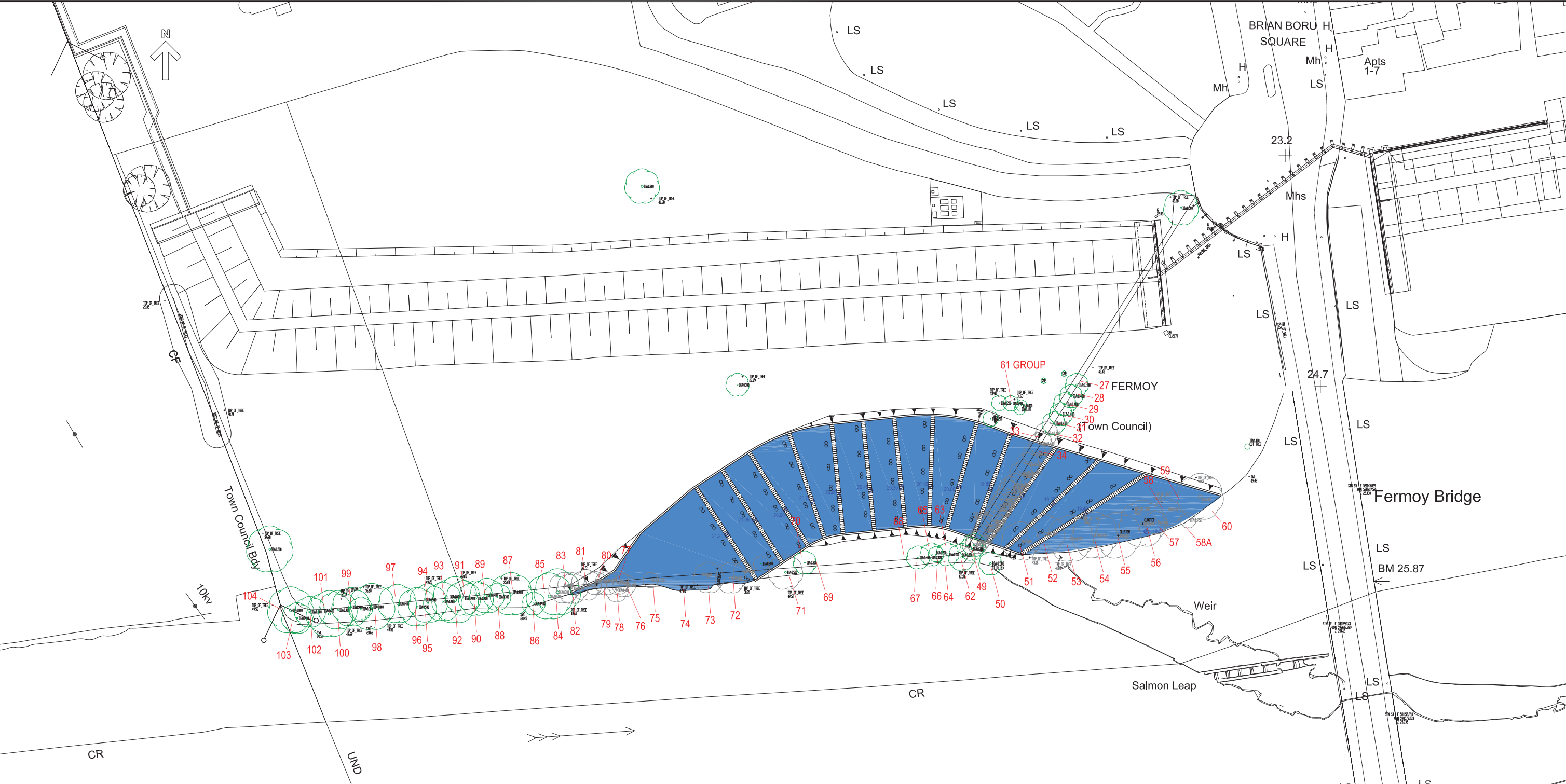
C01	AP	ISSUED FOR PLANNING	02.06.2022
REV	STAT	DESCRIPTION	DATE
DRAWING STATUS: ISSUED FOR PLANNING			
CHECKED BY: LC	REVIEWED BY: MV	APPROVED BY: DC	
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<div><div>TJ</div><div>O'CONNOR & ASSOCIATES</div><div>CONSULTING ENGINEERS</div></div> <div>CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18, Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie</div>			
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



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

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

C01	AP	ISSUED FOR PLANNING	02.06.2022
REV	STAT	DESCRIPTION	DATE
DRAWING STATUS: ISSUED FOR REVIEW AND COMMENT			
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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



LEGEND:

- EXISTING TREES
- EXISTING TREES TO BE REMOVED
- ROOT PROTECTION AREA

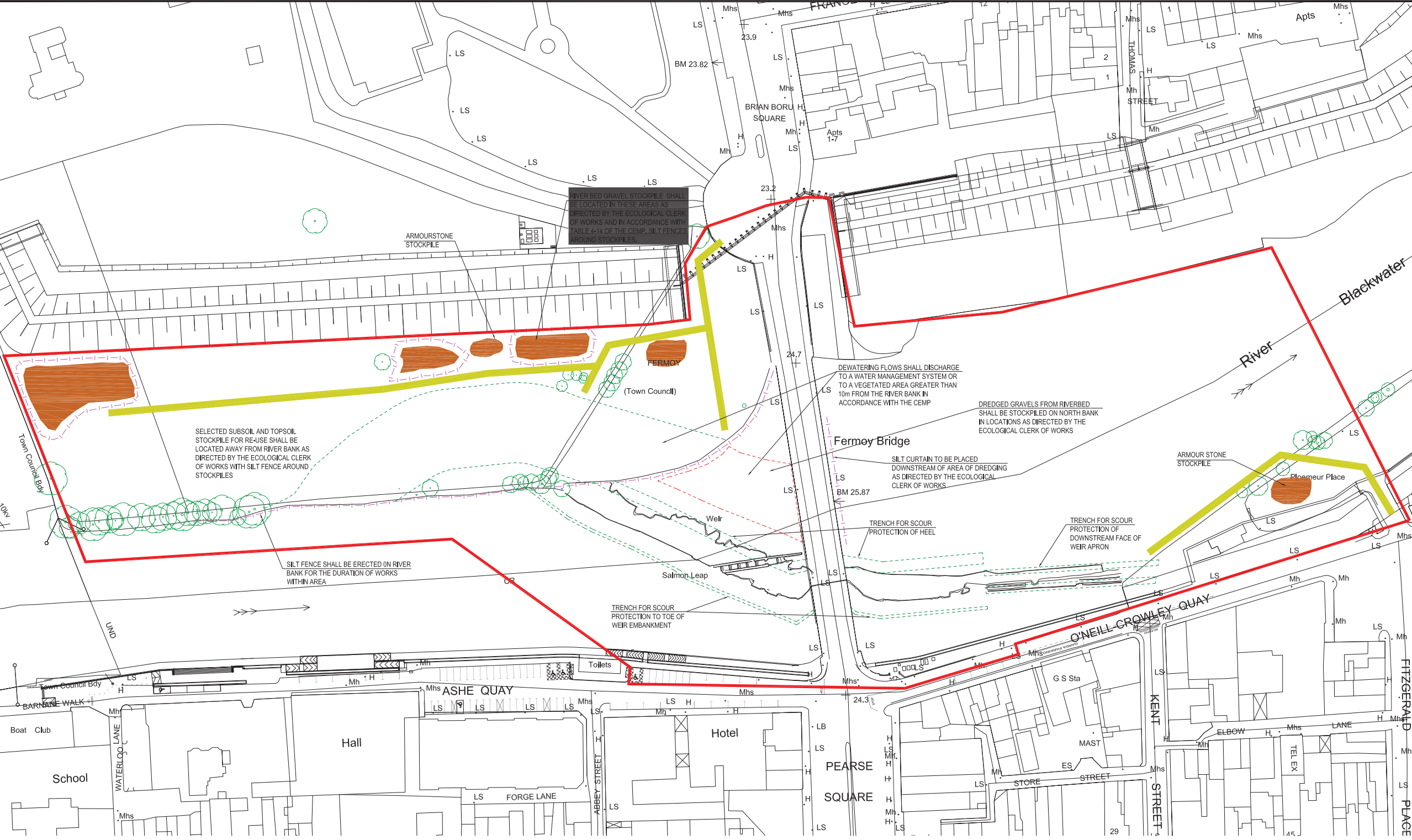


NOTES:

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

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

C01	AP	ISSUED FOR PLANNING	02.06.2022
REV	STAT	DESCRIPTION	DATE
DRAWING STATUS: ISSUED FOR PLANNING			
CHECKED BY: LC	REVIEWED BY: MV	APPROVED BY: DC	
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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 190111-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 <14 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 ENCOACH 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

C01	AP	ISSUED FOR PLANNING	02.06.2022
REV	STAT	DESCRIPTION	DATE
DRAWING STATUS:			
ISSUED FOR PLANNING			
CHECKED BY:	LC	REVIEWED BY:	MV
		APPROVED BY:	DC

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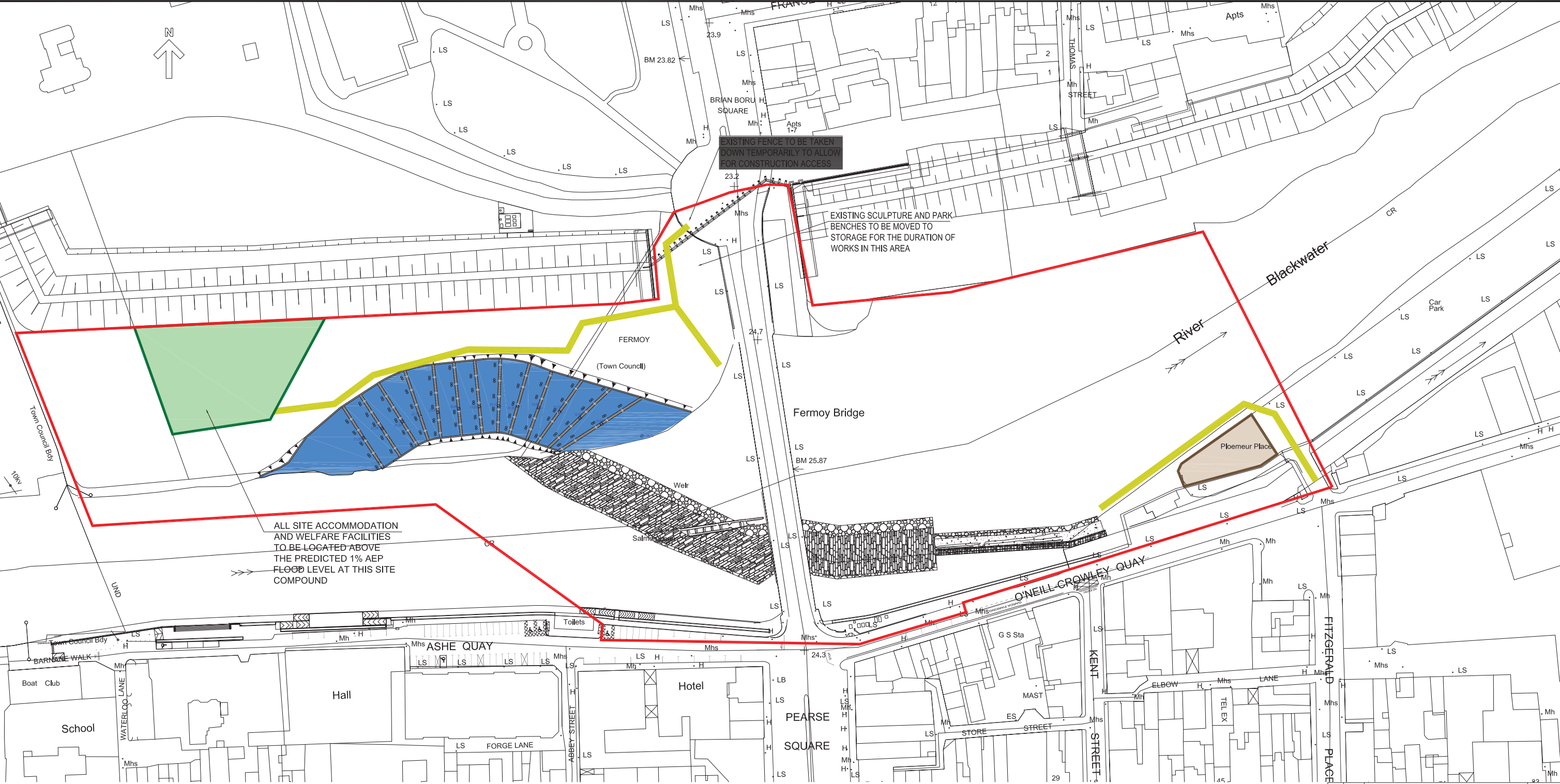


CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.
Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie

PROJECT: FERMOY WEIR REMEDIATION AND FISH BYPASS CHANNEL
CLIENT: CORK COUNTY COUNCIL
DRAWING TITLE: CONSTRUCTION SPOIL MANAGEMENT

SCALE: 1:750		(A1)
PROJECT • ORIGINATOR • VOLUME • LOCATION • TYPE • ROLE • NUMBER		REV:
19011-TJOC-PL-XX-DR-C-0084		C01

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

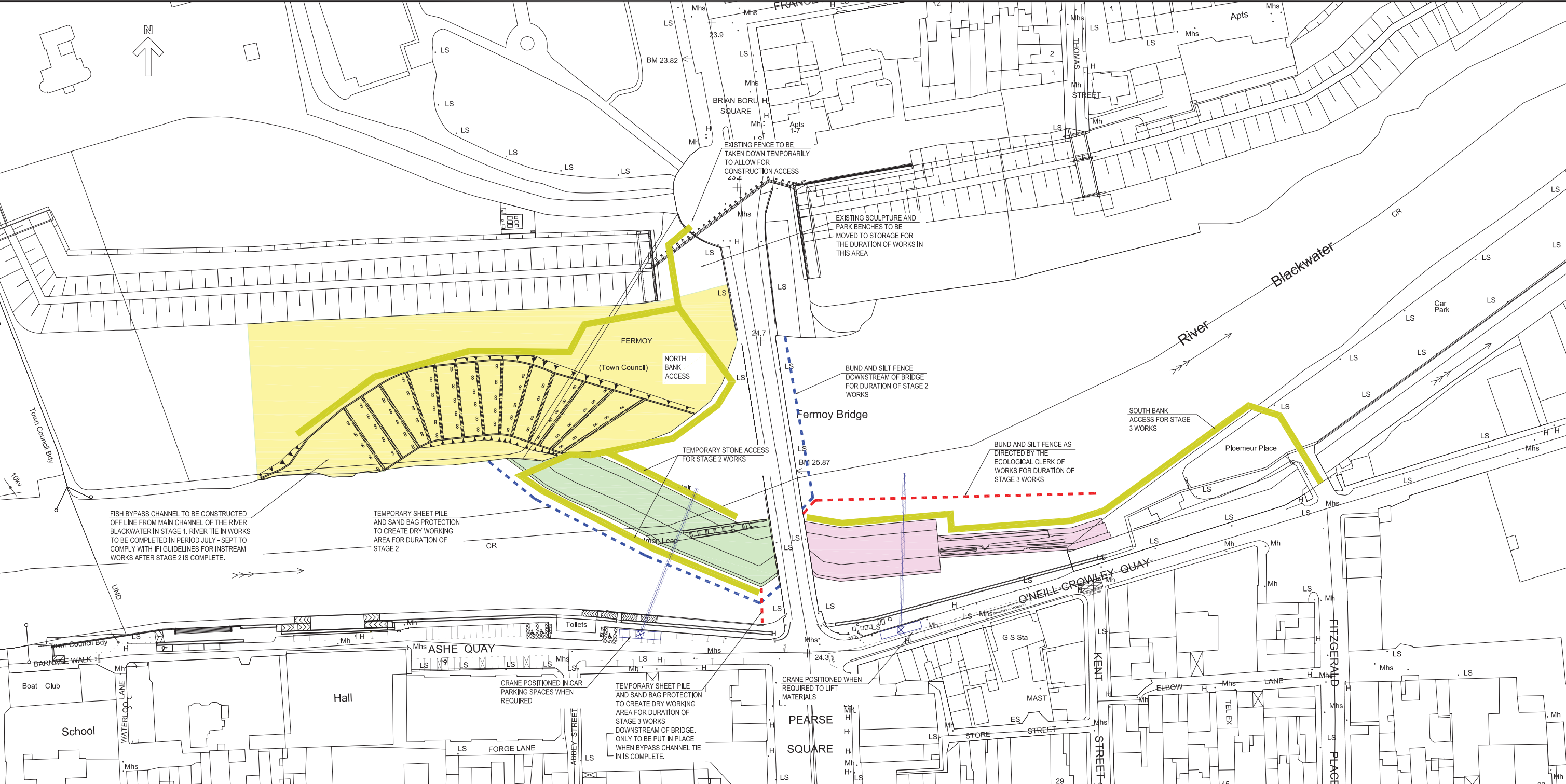


0 7.5 15 22.5 30 45 60 75m
1:750

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

- LEGEND:
- SITE COMPOUND
 - SATELLITE COMPOUND
 - SITE BOUNDARY
 - CONSTRUCTION ACCESS ROUTES

C01	AP	ISSUED FOR PLANNING	02.06.2022
REV	STAT	DESCRIPTION	DATE
DRAWING STATUS: ISSUED FOR PLANNING			
CHECKED BY:	LC	REVIEWED BY:	MV
		APPROVED BY:	DC
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<div>TJ O'CONNOR & ASSOCIATES</div> <div>CONSULTING ENGINEERS</div> <div>CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.</div> <div>Tel: 01-295 2321 Fax: 01-295 4541 Email: tjoc@tjoc.ie Web: www.tjoc.ie</div>			
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

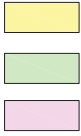


NOTES




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. 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

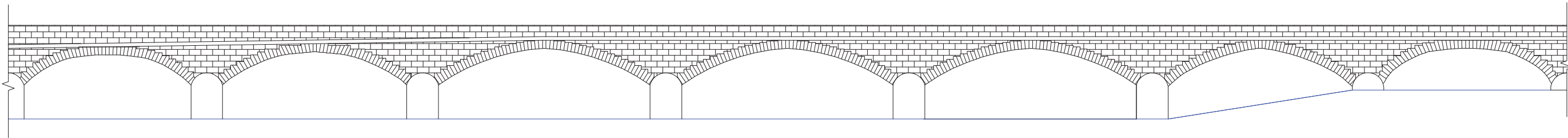
LEGEND:

- 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

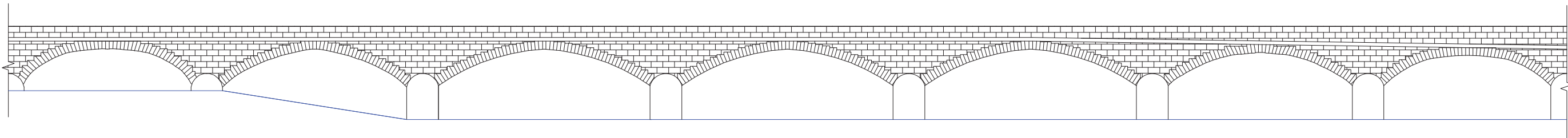


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(CORK CCMA 9802)

C01	AP	ISSUED FOR PLANNING		02.08.2022
REV	STAT	DESCRIPTION		DATE
DRAWING STATUS: ISSUED FOR PLANNING				
CHECKED BY: LC		REVIEWED BY: MV	APPROVED BY: 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: INSTREAM WORKS PHASING				
SCALE: 1:750 (A1)				
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 19011-TJOC-PL-XX-DR-C-0086				REV: C01



1 EAST ELEVATION
0087 SCALE: 1:150



2 WEST ELEVATION
0087 SCALE: 1:150

C01	AP	ISSUED FOR PLANNING	02.06.2022
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REV	SUIT	DESCRIPTION	DATE
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DRAWING STATUS:			
ISSUED FOR PLANNING			

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

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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

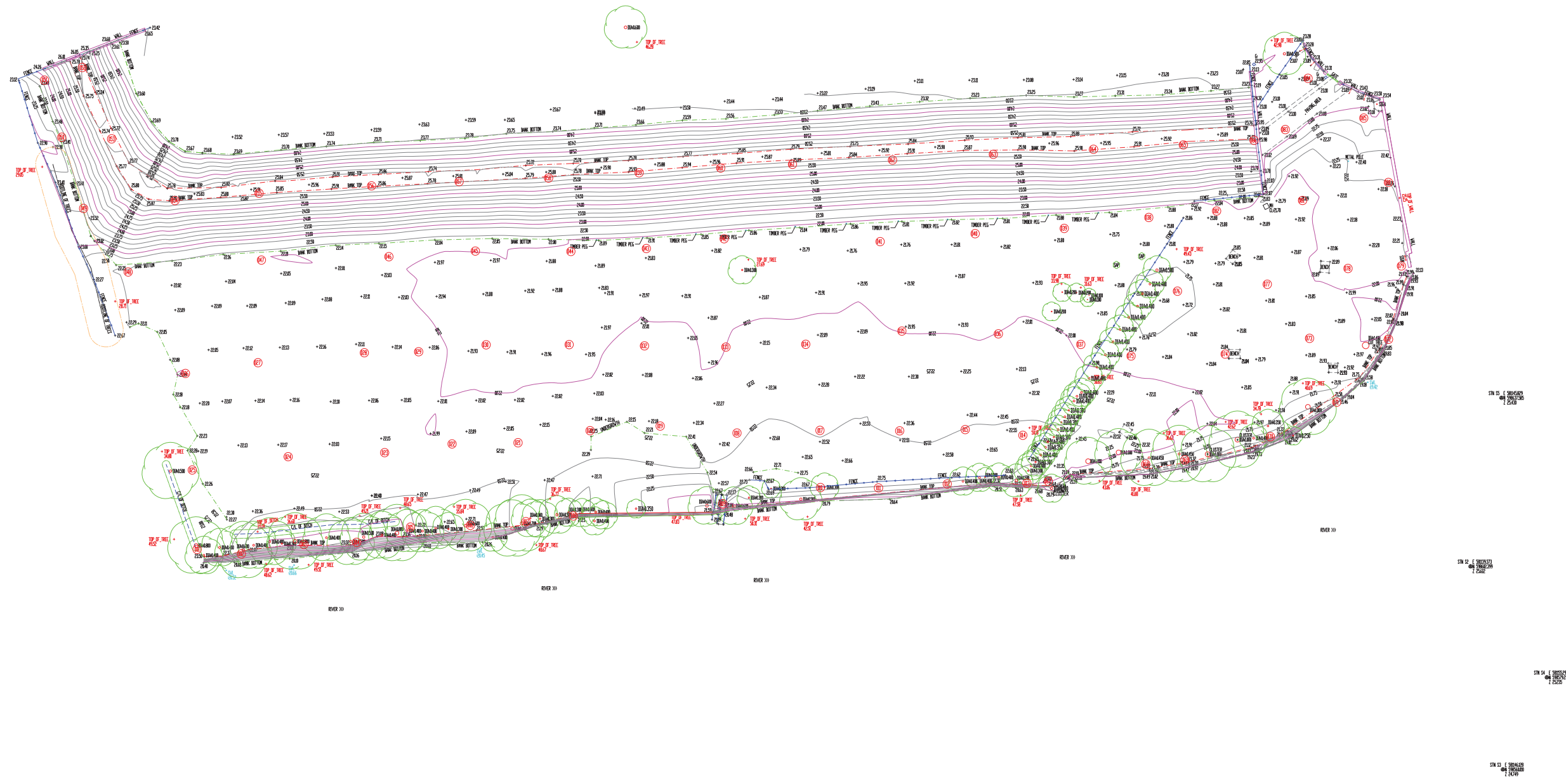
PROJECT:	FERMOY WEIR REMEDIATION
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CLIENT:	CORK COUNTY COUNCIL
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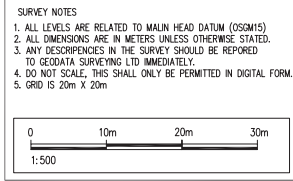
DRAWING TITLE:	FERMOY BRIDGE ELEVATIONS
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SCALE:	1:150	(A1)
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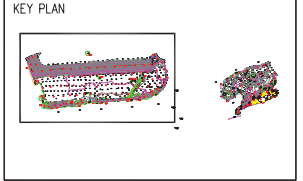
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER	REV:
19011-TJOC-PL-XX-DR-C-0087	C01



Topographical Survey
Scale 1:500



SYMBOLS									
	SPOT LEVEL		GULLY		AIR VALVE		ARMSTRONG JUNCTION		GATE
	CONTROL SURVEY STATION		WATER METER		FIRE HYDRANT		LAMP POST		SURFACE WATER LEVEL
	MANHOLE COVER		SLUICE VALVE		TEL. INSP. CHAMBER		TELECOM POLE		INVERT LEVEL
	UTILITY INSP. CHAMBER		STOP COCK		MN. PILLAR		ESB POLE		TOP TAG
	OVERHEAD ESB LINE		OVERHEAD TEL. LINE		TREE TAG NO.		WINDOW BOARD TO FFL		RIDGE LEVEL
	SOFFIT BEAM		SOFFIT CEILING		TREE ACTUAL SPREAD		FINISH FLOOR LEVEL		FULL SEWER
	TREE TAG NO.		HEAD TO FFL		COMBINED SEWER		PUBLIC LIGHTING		TRENCH
	ESB BOX		TRAFFIC		IDENTIFIED ESN		ELECTRICAL CABLE		COMBINED SEWER
	ESB BOX		ESB BOX		ESB BOX		ESB BOX		ESB BOX



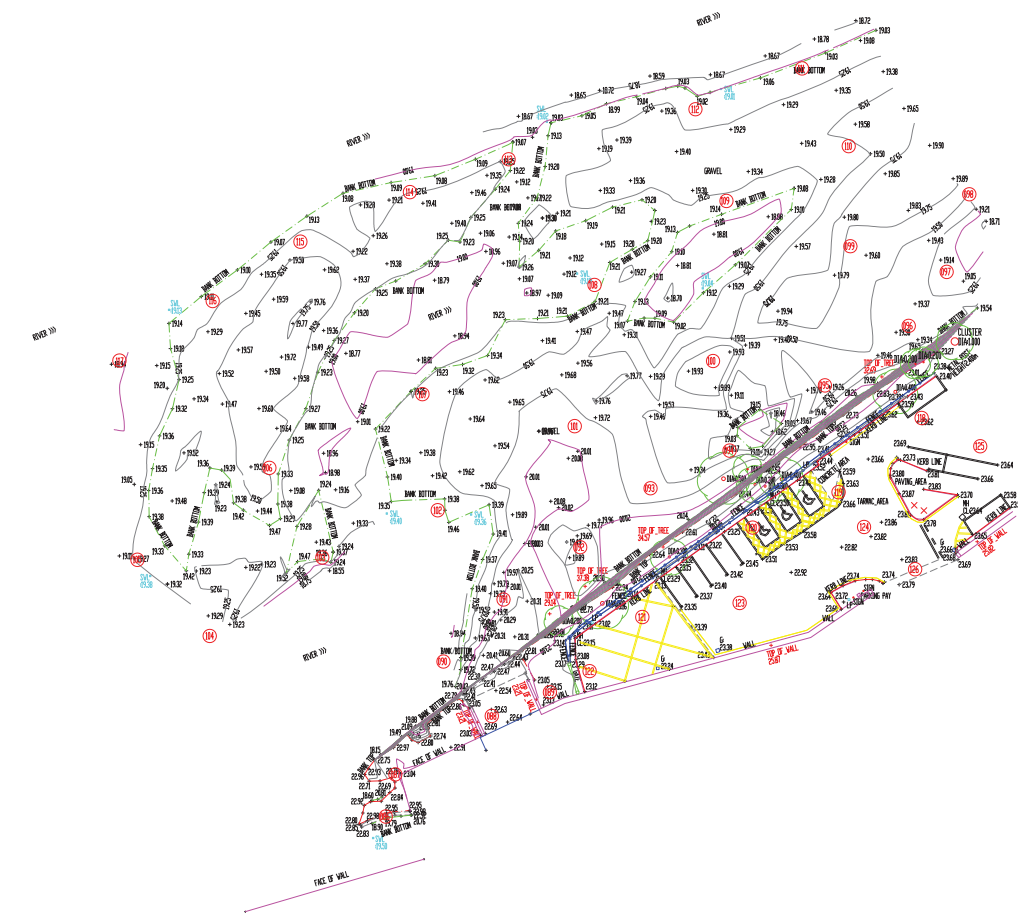
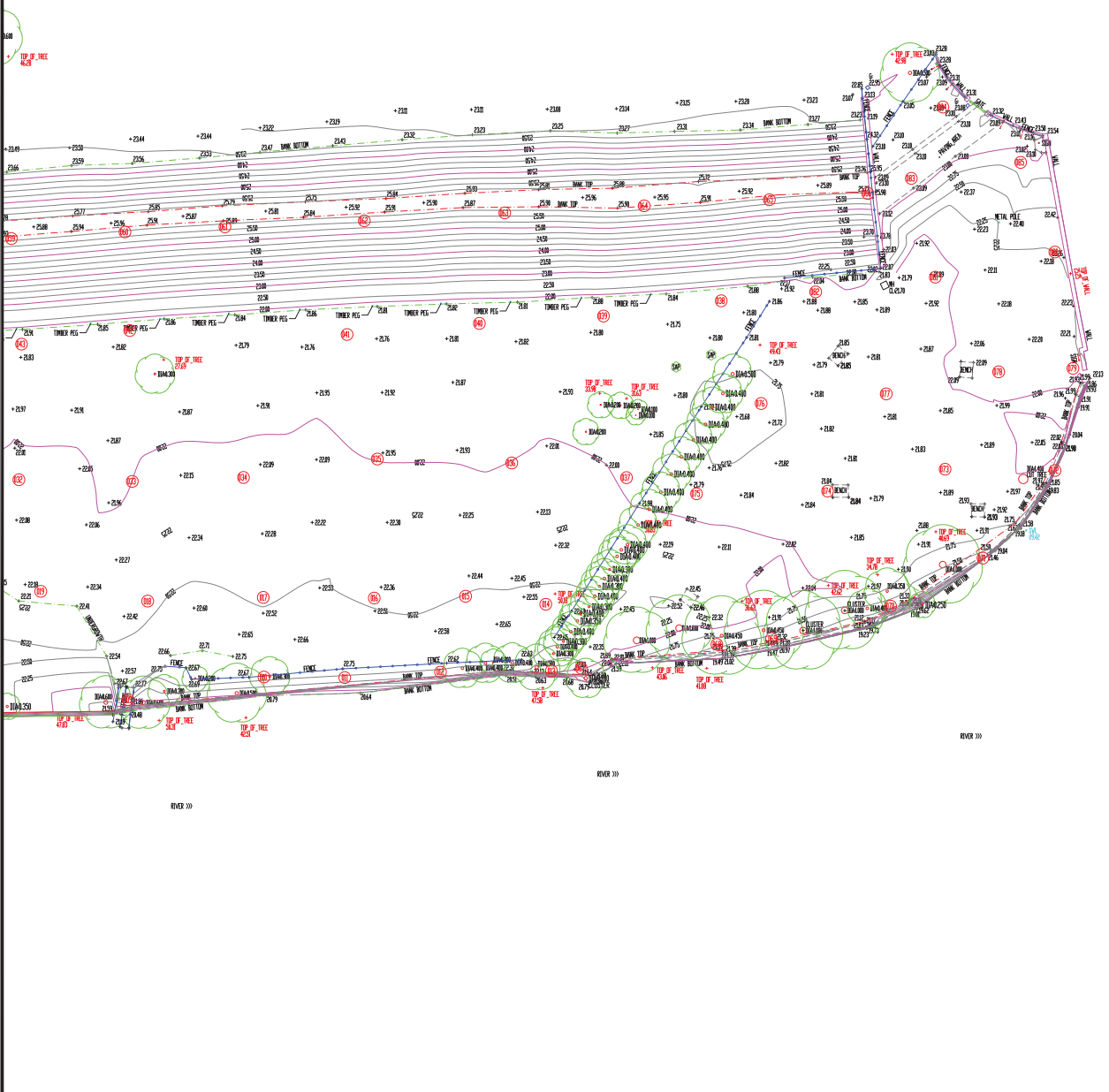
REVISION	DATE	DESCRIPTION	DRN BY/CD BY
12	14-06-20	PHOTOS AND TREES	A
10	14-06-20	TOPOGRAPHICAL SURVEY	N

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Geodata
Chartered Land Surveyors

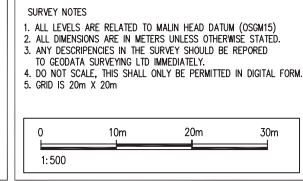
47 Oliver Plunkett Street Bandon, Co. Cork, P72 A443
Phone: (+353) (0)23 8852798 Fax: (+353) (0)23 8852799
Email: info@geodatasurveying.ie Website: www.geodatasurveying.ie

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

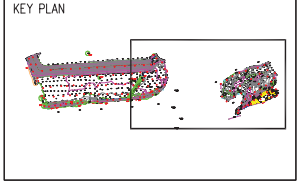


Topographical Survey

Scale 1:500



SYMBOLS									
	SPOT LEVEL		GULLY		AIR VALVE		ARRESTING JUNCTION		GATE
	CONTROL SURVEY STATION		WATER METER		FIRE HYDRANT		LAMP POST		SURFACE WATER LEVEL
	MANHOLE COVER		SLUICE VALVE		TEL. INSP. CHAMBER		TELECOM POLE		INVERT LEVEL
	UTILITY INSP. CHAMBER		STOP COCK		MN. PILLAR		ESB. POLE		TOP TAG
	OVERHEAD ESB. LINE		OVERHEAD TEL. LINE		TELECOM POLE		TREE TAG NO.		BOLLARD
	SIGN		TREE ACTUAL SPREAD		TREE TAG NO.		WINDOW BOARD TO FFL		PEG REF. NUMBER
	SOFFIT BEAM		SOFFIT CEILING		HEAD TO FFL		ESB. BOX		ESB. BOX
	RISE LEVEL		SOFFIT LEVEL		FINISH FLOOR LEVEL		ESB. BOX		ESB. BOX
	FOUL SEWER		STORM SEWER		COMBINED SEWER		ESB. BOX		ESB. BOX
	IDENTIFIED ON GROUND		PUBLIC LIGHTING		IDENTIFIED GPI		ESB. BOX		ESB. BOX
	TRAFFIC		TRENCH		COMBINED SEWER		ESB. BOX		ESB. BOX



REVISION	DATE	DESCRIPTION	DRN BY/CHK BY
1	28-05-20	TOPOGRAPHICAL SURVEY	M. A. O.

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: Fermoyle, Co. Cork.
Title: Topographical Survey 2D

Scale: 1-500
Date: 28-05-20
Sheet: A1

Dwg. No: 20423-101

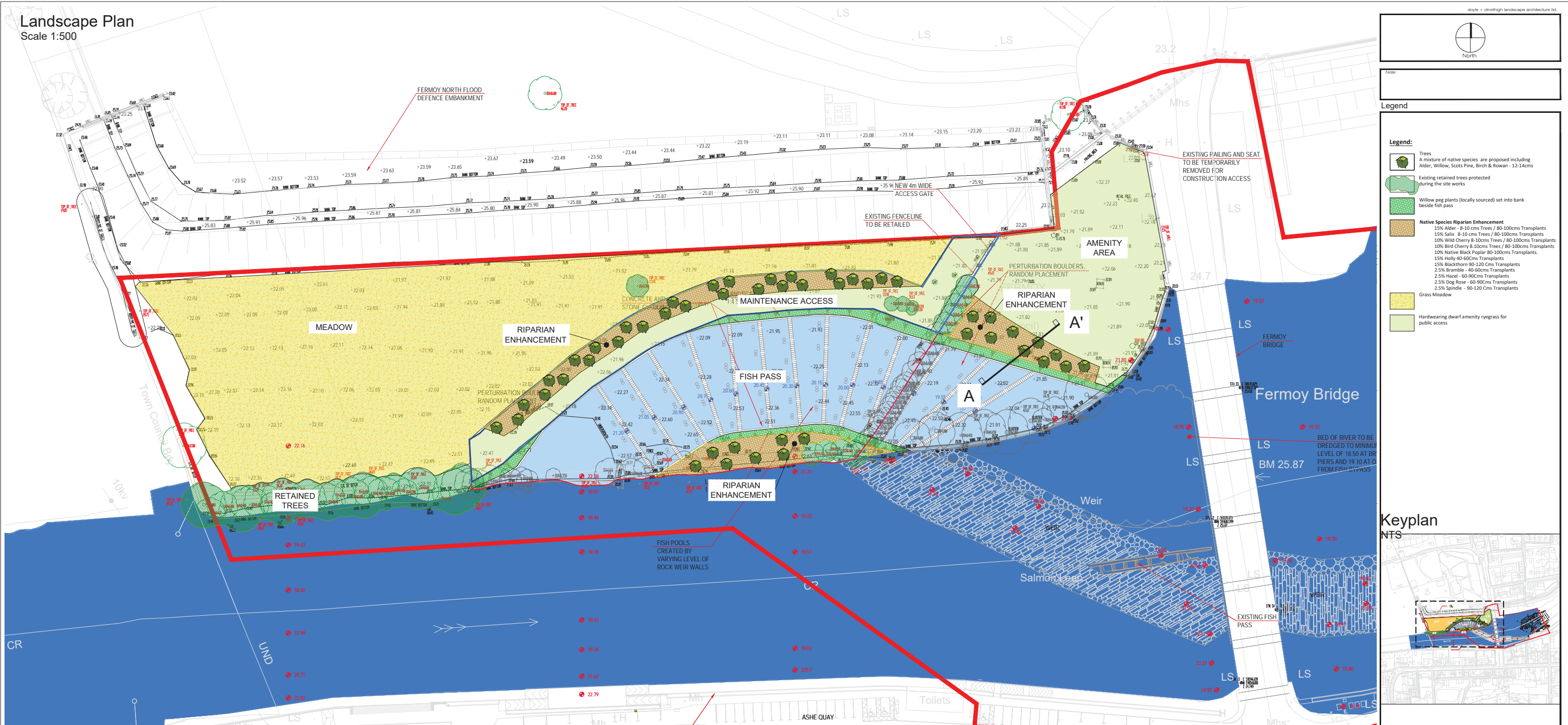
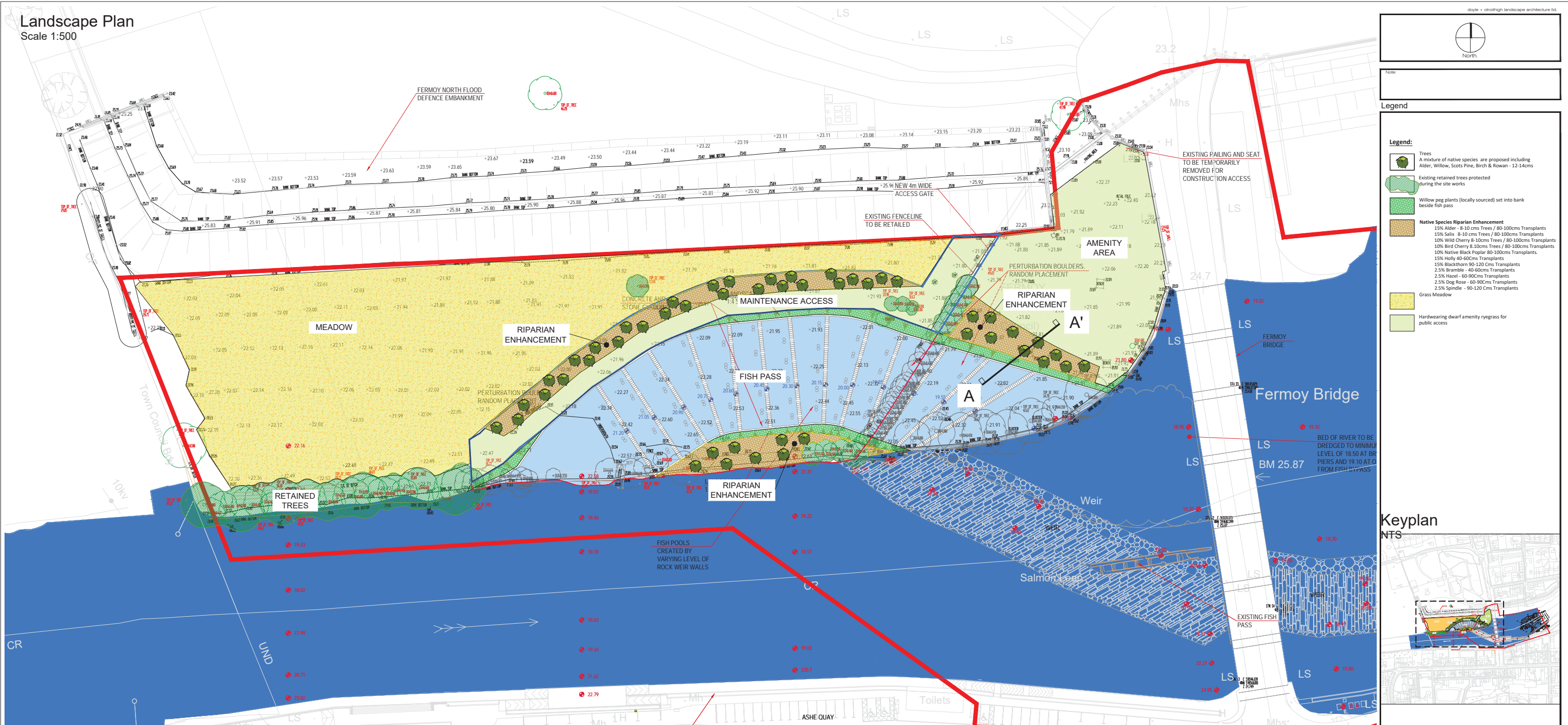
Landscape Plan
Scale 1:500

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 & 10cms Trees / 80-100cms Transplants
 - 10% Bird Cherry & 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

[illegible]

Landscape Plan
Scale 1:500

The plan shows a river area with various features and proposed interventions:

- Ferry North Flood Defence Embankment**: Located at the top left.
- Town Council Bldg**: Located near the bottom left.
- Meadow**: A large yellow-shaded area on the left side.
- Riparian Enhancement**: Three areas labeled along the riverbank, featuring green hatched patterns.
- Maintenance Access**: A path through the riparian enhancement area.
- Fish Pass**: A section of the riverbed with a grid pattern.
- Perturbation Boulder Random Placement**: Areas labeled near the fish pass and riparian enhancements.
- Amenity Area**: A green-shaded area on the right side.
- Weir**: A structure across the river, labeled "Weir" and "Salmon Weir".
- Fermoy Bridge**: A bridge crossing the river on the right.
- Retained Trees**: A cluster of trees on the left bank.
- Fish Pools Created by Varying Level of Rock Weir Walls**: A note pointing to the weir area.
- Toilets**: Located at the bottom center.
- ASHE QUAY**: Located at the bottom center.
- UND**: Underside of the embankment, indicated by arrows.
- Elevation Contours**: Numerous numerical values (e.g., +23.63, +23.59, +23.65) indicating ground levels.
- Keyplan**: A small inset map at the bottom right showing the project location relative to surrounding streets.

Legend:

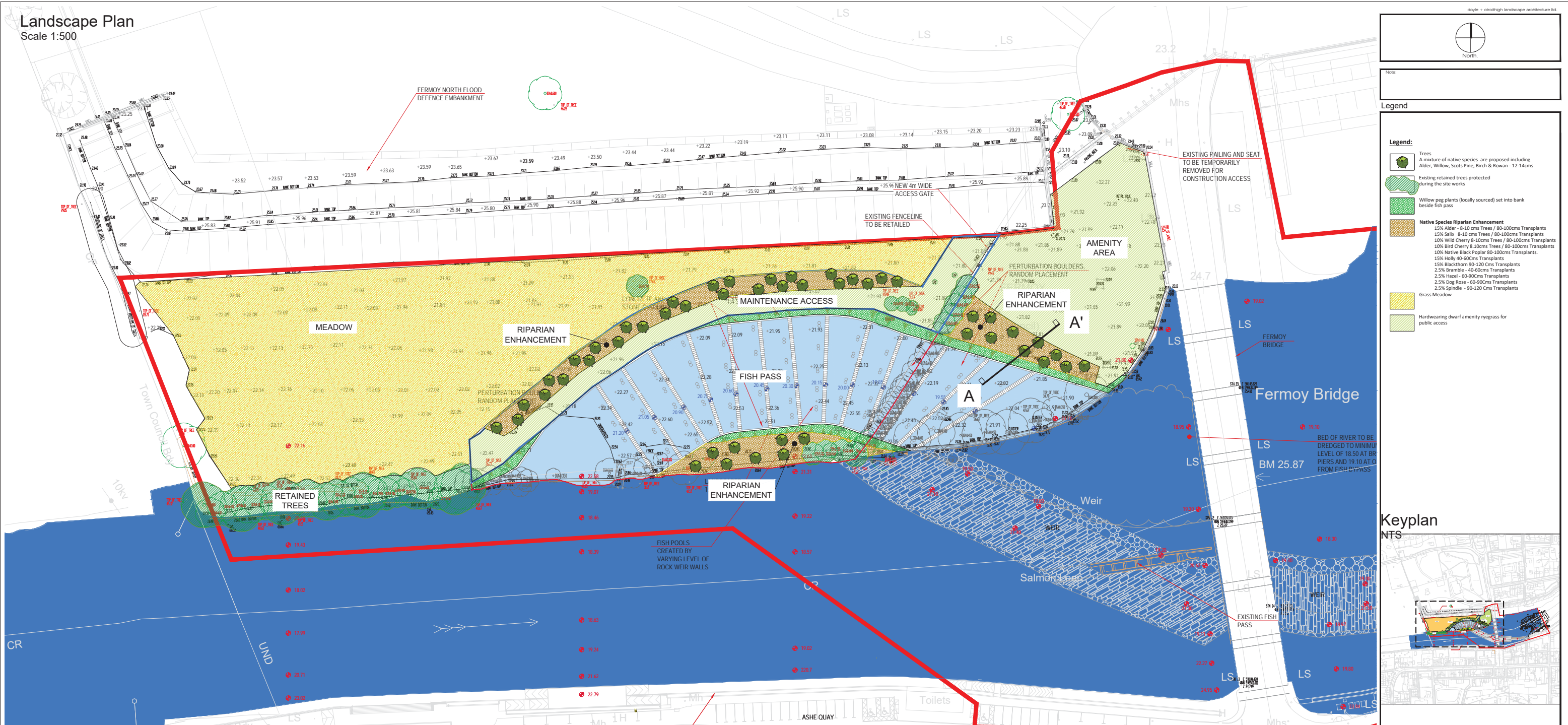
- Trees: A mixture of native species are proposed including Alder, Willow, Scots Pine, Birch & Rowan - 12-14cms
- Existing retained trees protected during the site works
- Willow peg plants (locally sourced) set into bank beside fish pass
- Native Species Riparian Enhancement**
 - 15% Alder - 8-10 cms Trees / 80-100cms Transplants
 - 15% Salix - 8-10 cms Trees / 80-100cms Transplants
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 - 2.5% Dog Rose - 60-90Cms Transplants
 - 2.5% Spindle - 90-120 Cms Transplants
- Grass Meadow
- Hardwearing dwarf amenity ryegrass for public access

Note:

EXISTING FENCING TO BE RETAILED

EXISTING FENCING AND SEAT TO BE TEMPORARILY REMOVED FOR CONSTRUCTION ACCESS

BED OF RIVER TO BE DREDGED TO MINIMUM LEVEL OF 18.50 AT BRIDGERS AND 19.10 AT O FROM FISH BYPASS



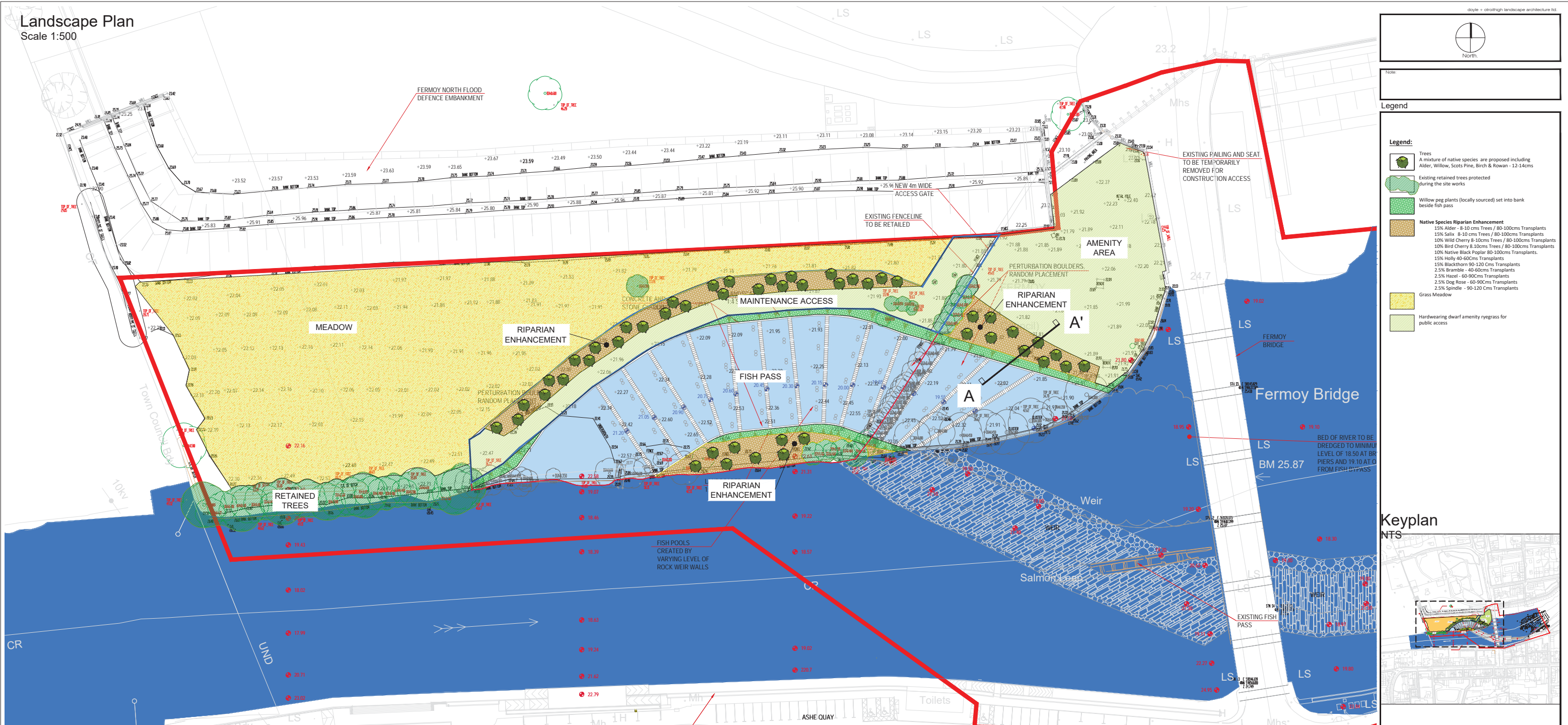
Landscape Plan
Scale 1:500

Legend:

- Trees: A mixture of native species are proposed including Alder, Willow, Scots Pine, Birch & Rowan - 12-14cms
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 - 2.5% Dog Rose - 60-90Cms Transplants
 - 2.5% Spindle - 90-120 Cms Transplants
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Keyplan

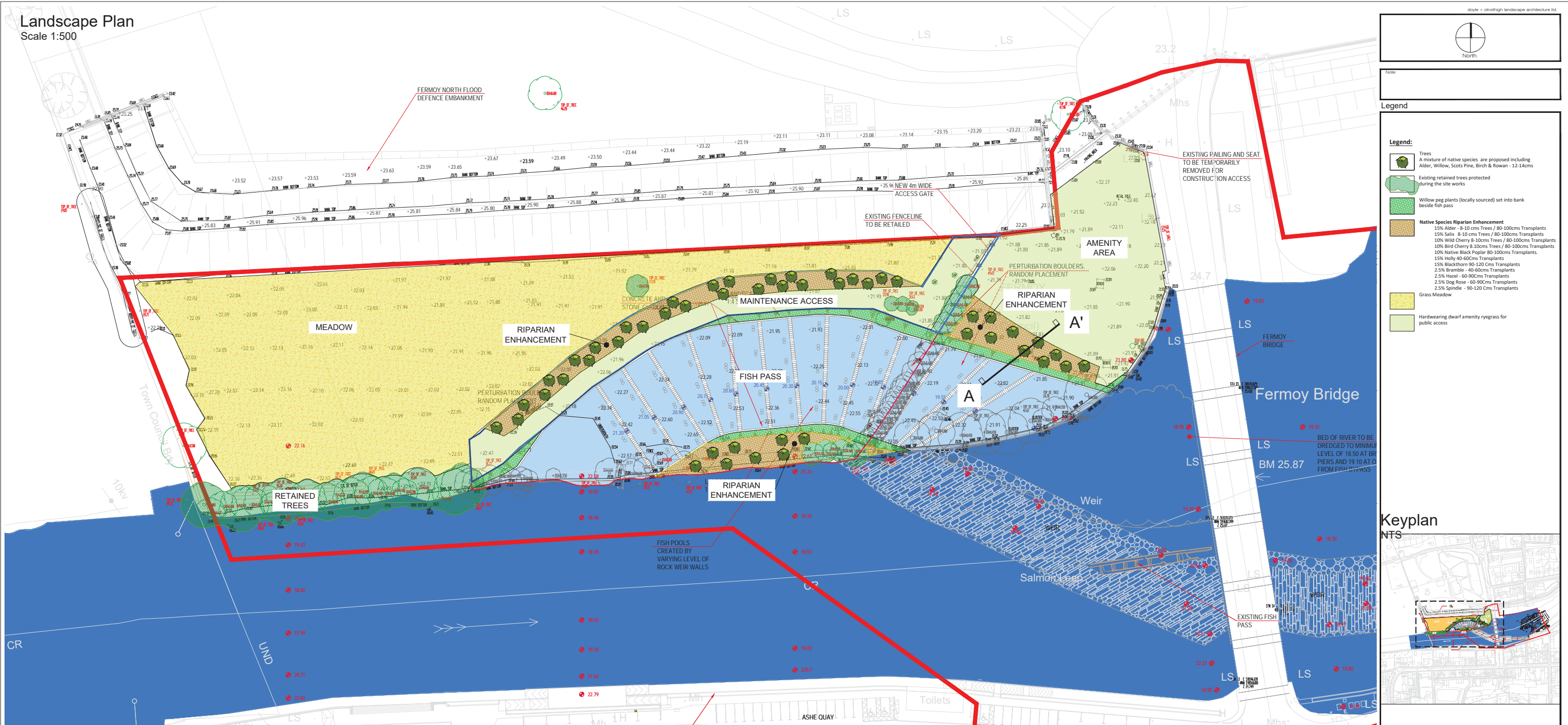
NTS



Landscape Plan
Scale 1:500

The plan shows a river area with various features and proposed interventions:

- Ferry North Flood Defence Embankment**: Located at the top left.
- Meadow**: A large yellow-shaded area on the left side.
- Riparian Enhancement**: Three areas along the riverbank, indicated by green hatching and tree symbols.
- Fish Pass**: A central feature in the river channel.
- Perturbation Boulder Random Placement**: Indicated by blue circles in the river channel.
- Amenity Area**: A green-shaded area on the right side.
- Weir**: A structure across the river channel.
- Salmon Pool**: A pool of water near the weir.
- Toilets**: Located at the bottom center.
- ASHE QUAY**: Located at the bottom right.
- Ferry Bridge**: A bridge crossing the river on the right.
- Town Council Bldg**: Located on the far left.
- UND**: Underside of the embankment.
- CR**: Carriageway.
- LS**: Landscaping area.
- H**: Highway.
- Mhs**: Main highway.
- Elevation Contours**: Numerous numerical values indicating ground levels throughout the site.
- Proposed Vegetation**: Various tree and plant symbols scattered throughout the riparian and amenity areas.
- Access Gate**: A gate labeled "NEW 4m WIDE ACCESS GATE".
- Existing Fencing**: Labeled "EXISTING FENCELINE TO BE RETAILED".
- Retained Trees**: A cluster of trees on the left side.
- Fish Pools**: Created by varying level of rock weir walls.
- Bed of River**: To be dredged to minimum level of 18.50 at bridge piers and 19.10 at downstream from fish bypass.
- BM 25.87**: Bench mark located near the bridge.
- Keyplan**: A small inset map showing the location of the site within a larger context.
- 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 & 10cms Trees / 80-100cms Transplants
 - 10% Bird Cherry & 10cms Trees / 80-100cms Transplants
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 - 2.5% Dog Rose - 60-90Cms Transplants
 - 2.5% Spindle - 90-120 Cms Transplants
 - Grass Meadow
 - Hardwearing dwarf amenity ryegrass for public access

[illegible][illegible]

Section A-A'

Scale 1:50

The diagram is a cross-section of a landscape feature. From left to right, it shows: a fish pass structure with a stone base and a concrete top; a stone-faced wall; a slope covered in willow set into an erosion control mat; a riparian enhancement planting area with various trees and shrubs; and an amenity grass area. Elevation markers are present: 19.4 and 18.80 on the fish pass structure, 21.81 on the riparian planting area, and 21.81 on the amenity grass area. A north arrow is located in the upper right corner of the drawing area.

Fish Pass Structure

Stone faced Wall

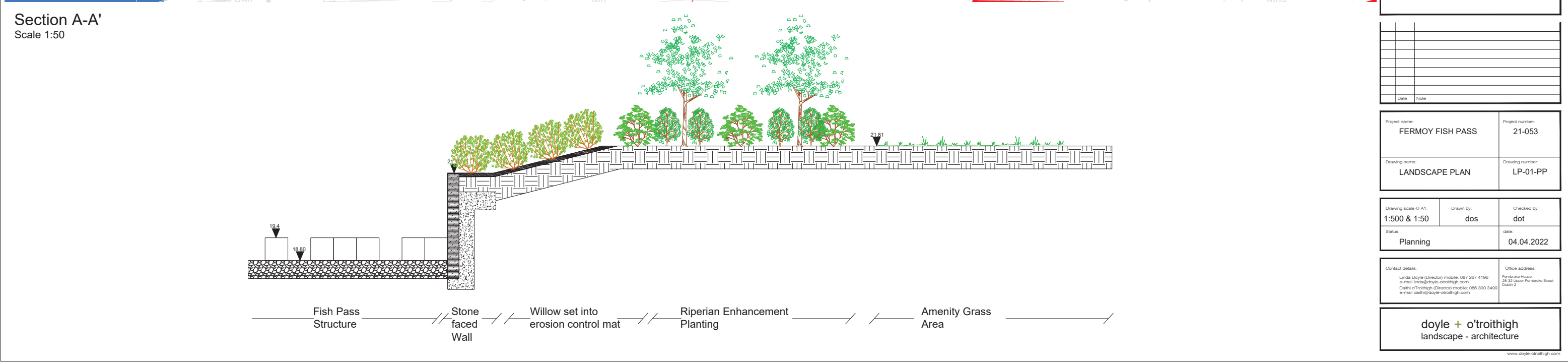
Willow set into erosion control mat

Riparian Enhancement Planting

Amenity Grass Area

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	
Status: Planning		Checked by: dot	
		date: 04.04.2022	
Contact details: Linda Doyle (Director) mobile: 087 267 4196 e-mail: linda@doyle-droathigh.com Daire o'Troithigh (Director) mobile: 086 300 3499 e-mail: daish@doyle-droathigh.com		Office address: Pembroke House 28-30 Upper Pembroke Street Cush 2	
doyle + o'troithigh landscape - architecture			

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Section A-A'

Scale 1:50

The drawing is a cross-section of a landscape feature. On the left, a 'Fish Pass Structure' is shown with a water level of 19.4 and a structure height of 18.80. To its right is a 'Stone faced Wall'. Further right is an 'Erosion Control Mat' with 'Willow' plants. This is followed by 'Riparian Enhancement Planting' with various trees and shrubs. The final area on the right is an 'Amenity Grass Area' with a ground level of 21.81. A vertical scale bar on the left indicates elevations from 18.00 to 21.81.

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	
Status: Planning		Checked by: dot	
		date: 04.04.2022	
Contact details: Linda Doyle (Director) mobile: 087 267 4196 e-mail: linda@doyle-droithigh.com Daire o'Troithigh (Director) mobile: 086 300 3499 e-mail: daith@doyle-droithigh.com		Office address: Pembroke House 28-30 Upper Pembroke Street Cush 2	
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Section A-A'

Scale 1:50

The drawing is a cross-section labeled 'Section A-A' at a scale of 1:50. It depicts a landscape profile from left to right. On the far left, there is a 'Fish Pass Structure' consisting of a series of rectangular blocks on a gravel base, with elevation markers of 19.4 and 18.80. To its right is a 'Stone faced Wall' shown in cross-section. Following the wall is an 'Erosion control mat' area with 'Willow' plants. This is followed by 'Riparian Enhancement Planting' featuring several trees and shrubs, with an elevation marker of 21.81. The final area on the right is an 'Amenity Grass Area' with grass tufts. A legend at the bottom identifies these five sections with corresponding line styles.

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The plan illustrates a river section with several key features:

- Trees:** Indicated by green hatched areas at the top left.
- Fish Pools:** Created by varying levels of rock weir walls, shown as blue hatched areas along the riverbank.
- Salmon Leap:** A specific feature within the river channel.
- Existing Fish Pass:** Located near the bottom right of the main plan.
- Toilets:** Situated on the bank near the bottom center.
- Ashe Quay:** A quay area at the bottom of the plan.

Elevation points are marked throughout the plan, ranging from 16.02 to 24.98. A red line runs diagonally across the upper portion of the river channel. An inset map in the bottom right corner provides a broader context of the site's location within a larger urban area.

The plan shows a river channel with a red line indicating a proposed weir structure. Key features include:

- FISH POOLS CREATED BY VARYING LEVEL OF ROCK WEIR WALLS**: A series of pools created by the weir structure.
- SALMON LEAP**: A section of the river channel.
- EXISTING FISH PASS**: A section of the river channel.
- TOILETS**: A building located on the right bank.
- TREES**: A line of trees along the left bank.
- ASH QUAY**: A quay located along the right bank.

A **Keyplan** inset shows the project location within a larger urban context.



Section A-A'

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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

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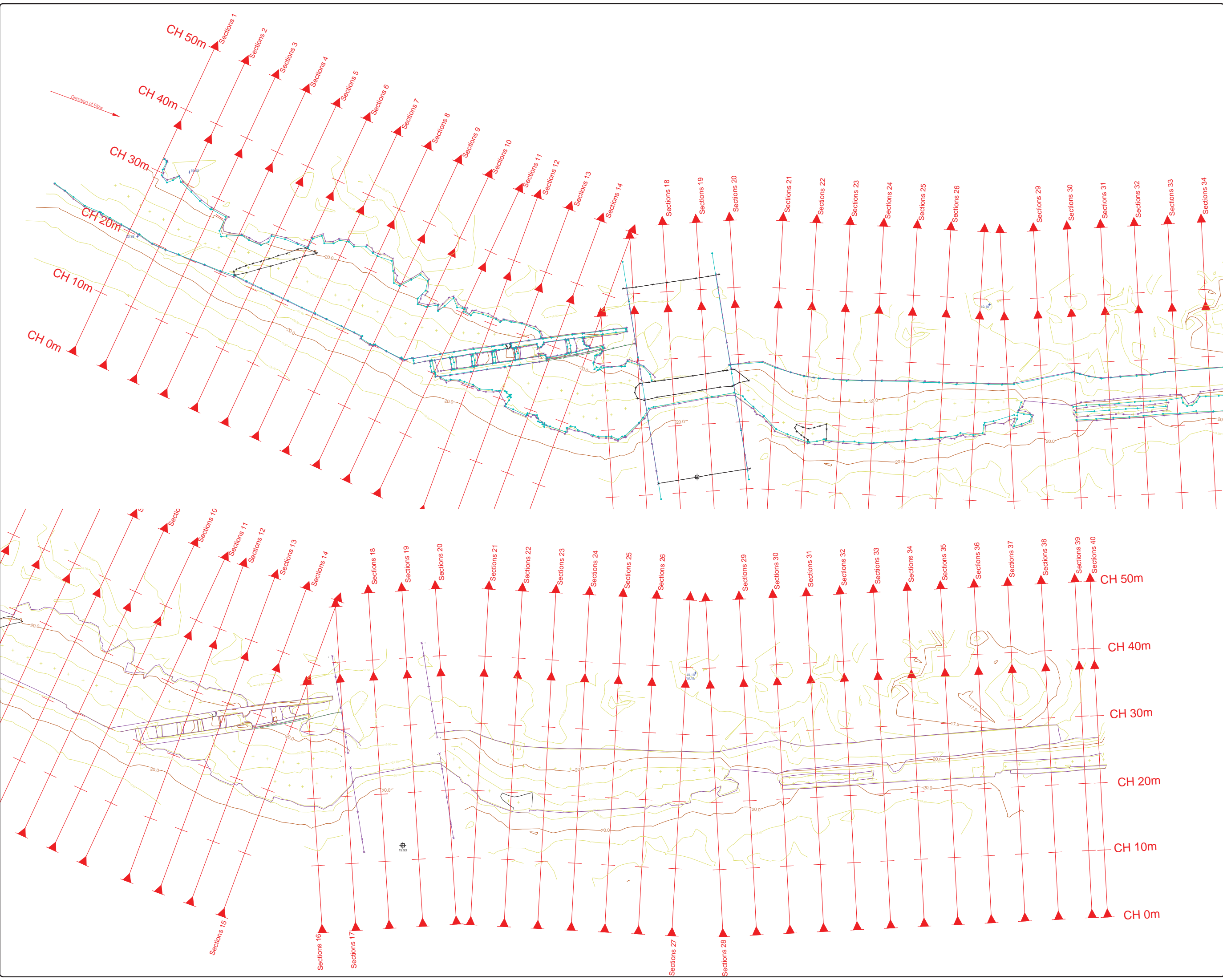
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LEGEND

Street furniture & Services

- Over Head Wires (LUAS) - Pylon ESB
- Flowerbed
- Pipe
- Light
- Barrier
- Pump
- Trial Pit
- Bus/Tram Shelter
- Postbox
- Valve - General
- Water Valve
- Gas Valve
- Shut-off Valve
- Air Valve
- Stop Cock
- C P Post
- Traffic Light
- Parking Meter
- Play Area Mark
- Small Card Validator
- Unknown Valve
- Bus Stop
- Bollard
- Beacon
- Coalhole Cover
- Bore Hole
- Electricity Pole
- Telegraph pole
- OCS Pole
- CCTV Camera Pole
- Lamp Post
- Foul Manhole
- Surface Water MH
- Manholes
- Air Conditioning Vents
- Services Inspection Cover
- Traffic Inspection Cover
- Cable TV Inspection Cover
- ESAT Inspection Cover
- MFL Inspection Cover
- Electric Inspection Cover
- Rodding Eye
- Road Sign
- Phone Box
- Kiosk
- Gully
- UG Car Park Vent
- Waste Bin
- Hydrant
- Fire Hydrant
- ESB Box
- ESB Inspection Cover
- Traffic Control Box
- LUAS Technical Cabinet
- Ticket Vending Machine
- Water Meter Cover
- Telecom Inspection Cover
- Monument / Toilets
- Tank Storage
- Basement MH Cover & Pipe
- Distal Aerial Mark
- Stop for pole
- Pipe Protection
- Washout

Natural Features

- Surface Change
- Land Drain
- Bottom of Slope
- Top of Slope
- Water Edge / Lake / Pond
- Hedge / Trees / Line / Vegetation
- Tree Deciduous
- Water Level
- Crown Level
- Invert Level
- Bed Level
- Spot Height
- Top of Tree
- Tree Deciduous
- Green
- Tea Box
- Other
- Survey Station
- Photo point
- River Alignment

Built Features

Roads & Road Markings

- Building
- Edge of Road
- Kerb Bottom
- Kerb Top
- Bridge Abutment
- Bridge Deck
- Bridge Pier
- Building Facade
- Footpath / Platform / Train & Tram
- Damp Proof / Course / Verge
- Bridge Pier / Wall & Gate Pillar / LUAS Trackbed
- Cyclway / Private Landing Area
- Fence
- Gate
- Road Centreline
- Top of Wall
- Hoarding
- Property Line
- Road Bed
- Top of Fence
- Wall / Retaining Wall
- Railway / Tram Rail / Gating / Ramp
- Building Canopy / Roof / Overhang
- Floor Level
- Apex Height
- Eaves Height
- Parapet Height
- Soffit Elevation
- Step Level
- Concrete Pad
- Track

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Map Sheet Layout

Drawn by: MSL	Date: Aug 2018	Drawn: Main Head
Checked by: BK	Date: Aug 2018	Grid System: Irish National Grid
Checked by: KC	Date: Aug 2018	Grid System: Irish National Grid

No.	Date	Description	Revisions
1	28.08.18	Final Drawing	

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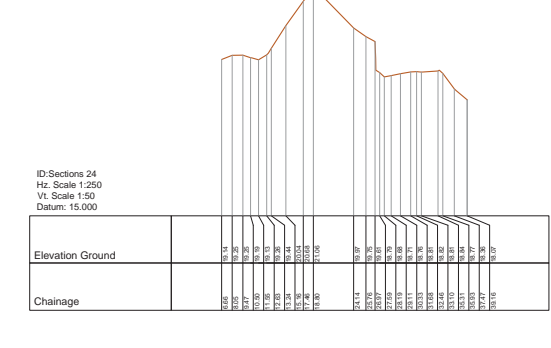
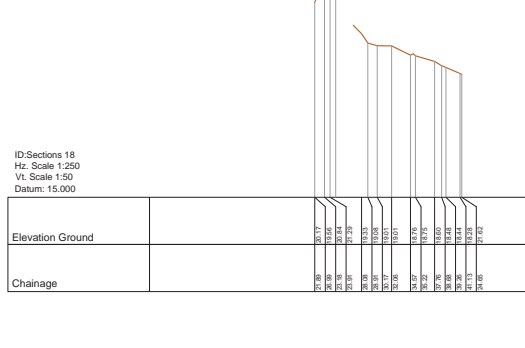
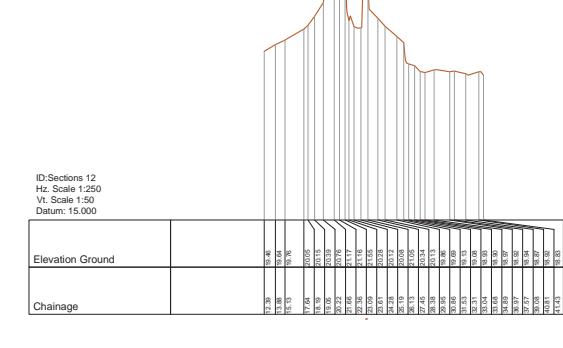
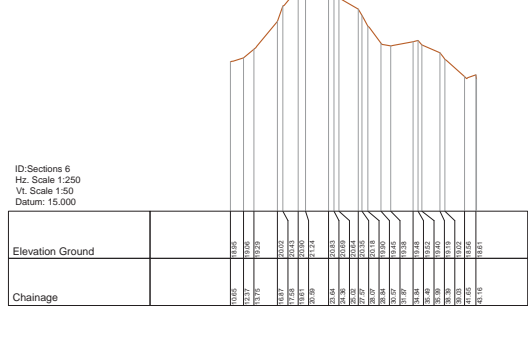
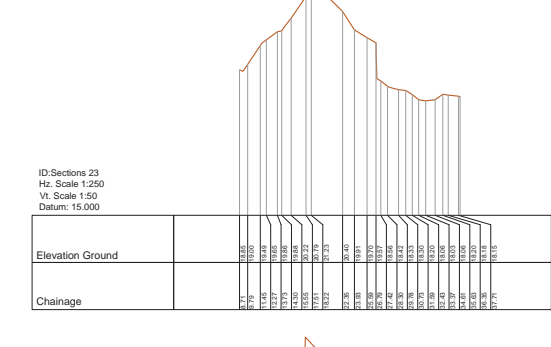
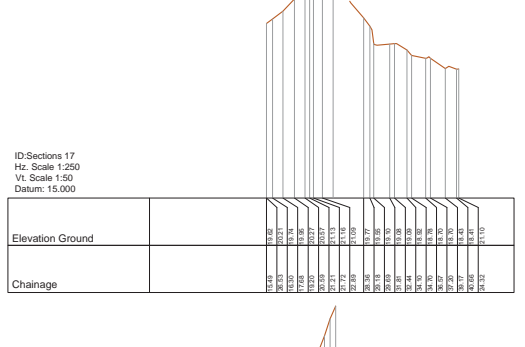
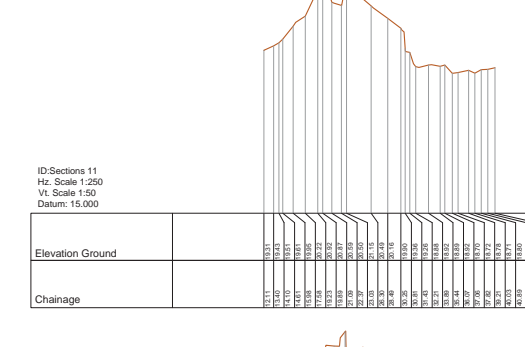
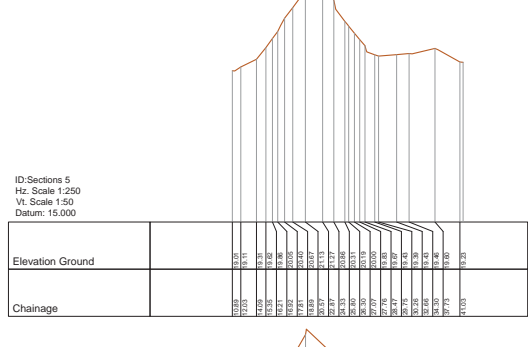
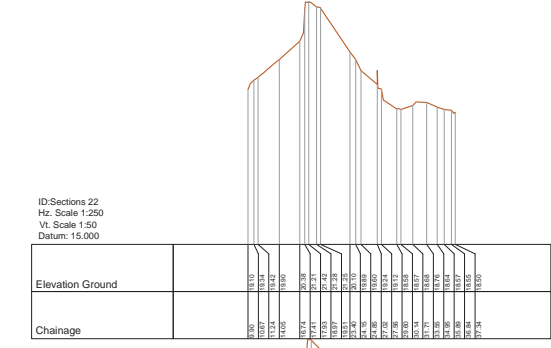
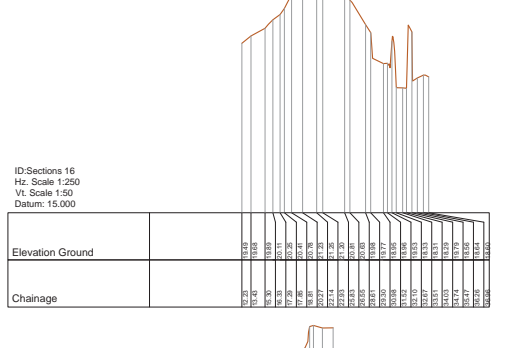
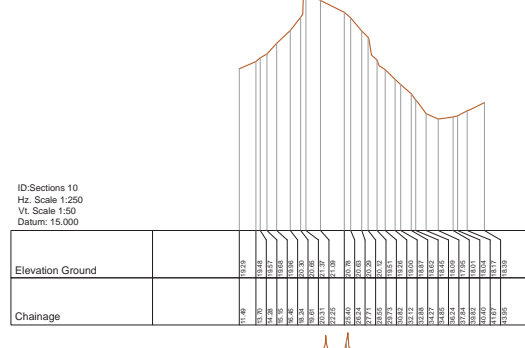
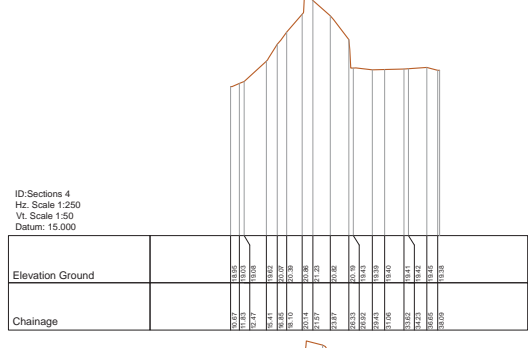
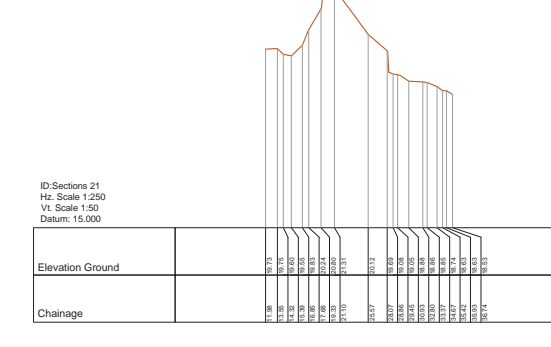
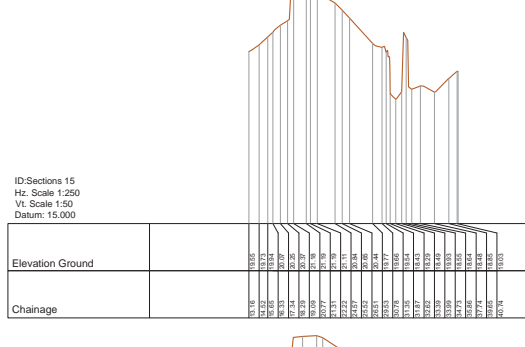
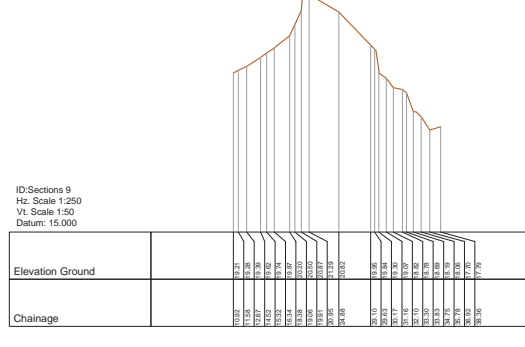
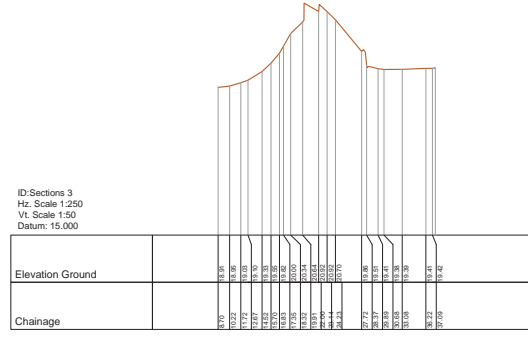
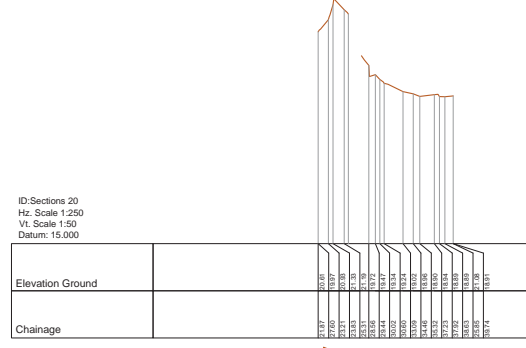
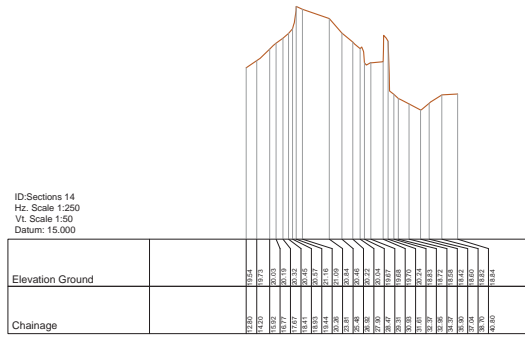
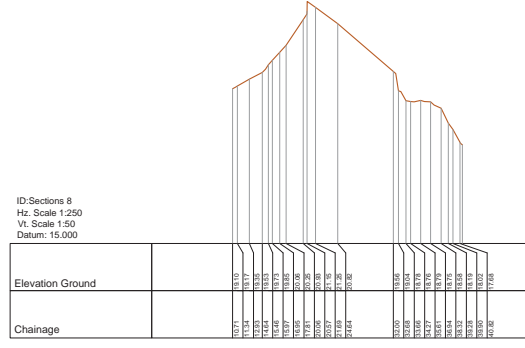
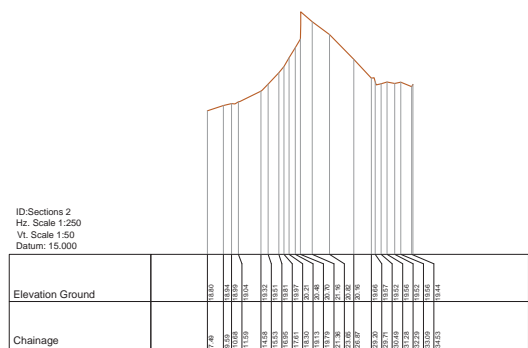
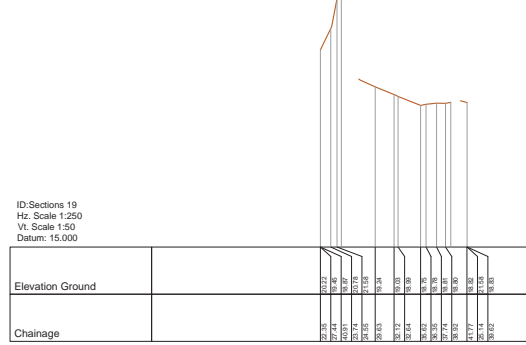
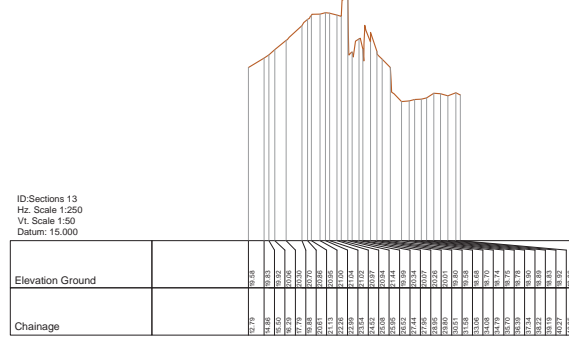
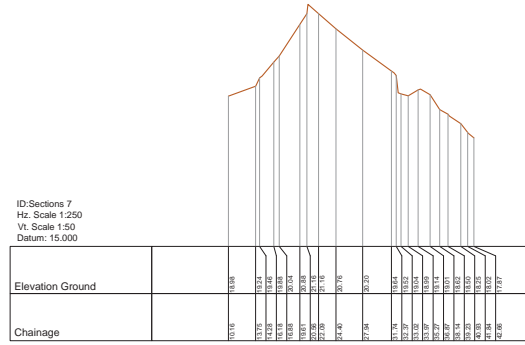
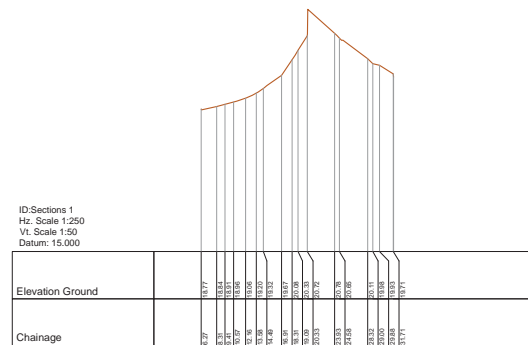
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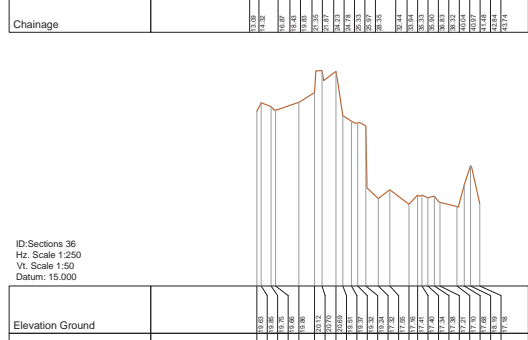
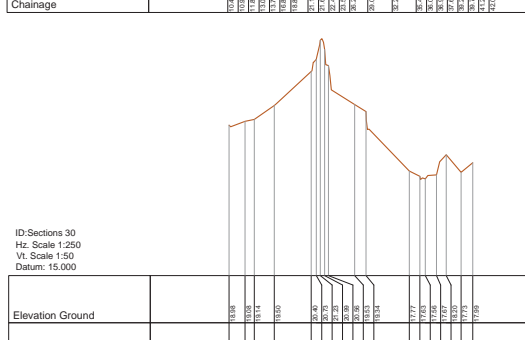
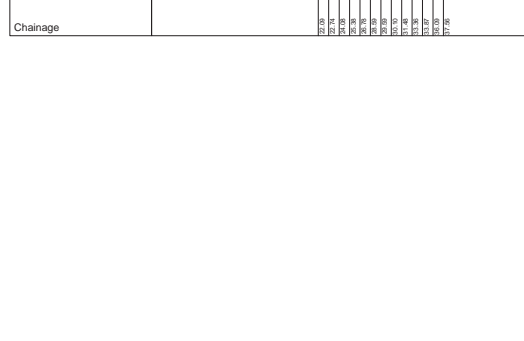
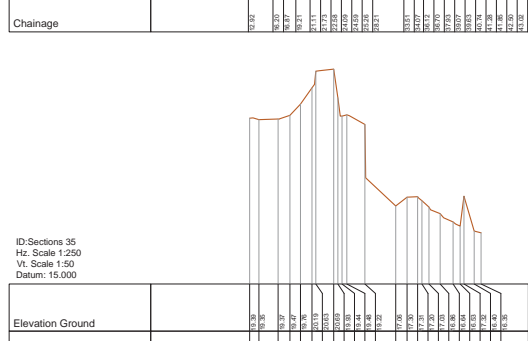
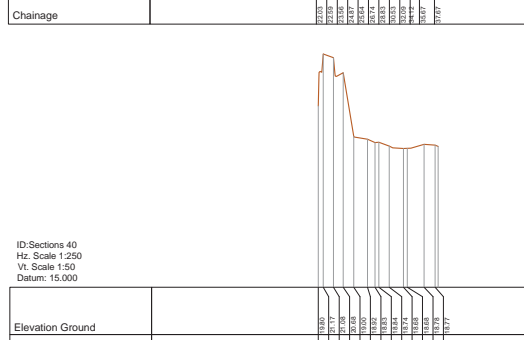
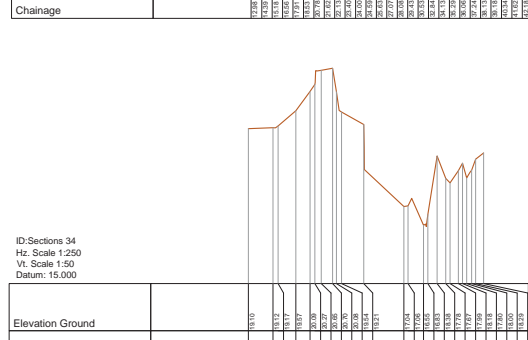
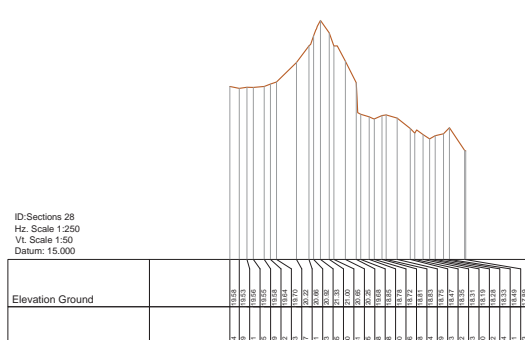
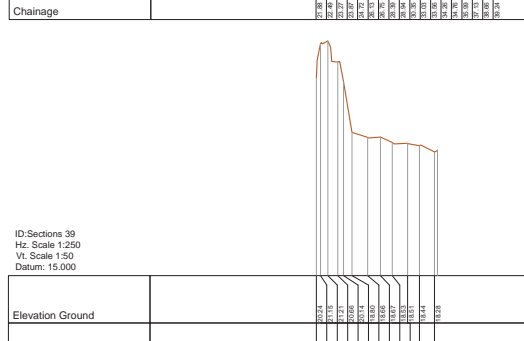
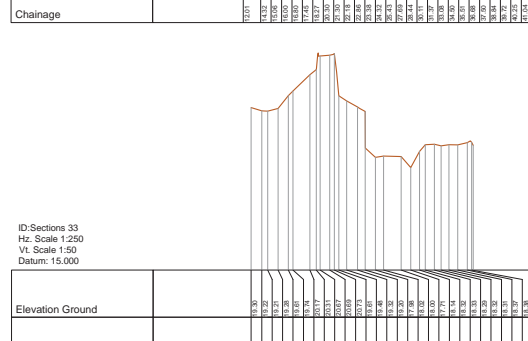
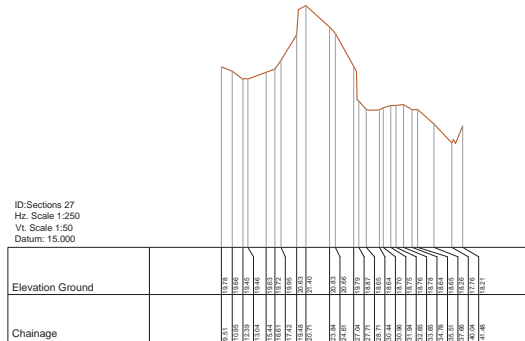
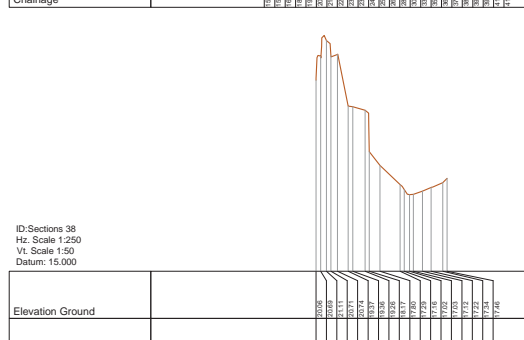
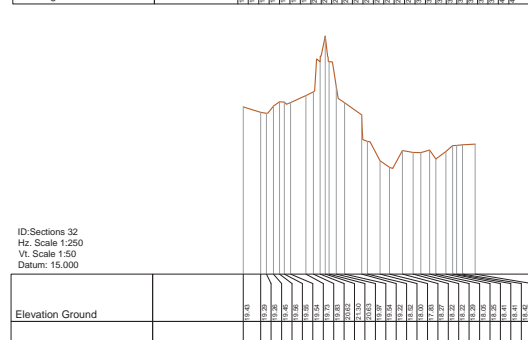
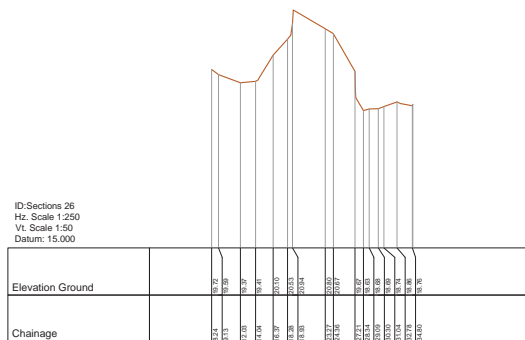
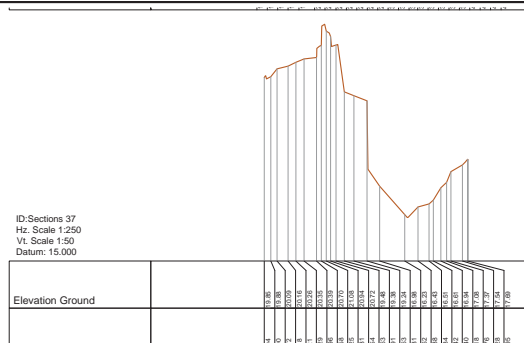
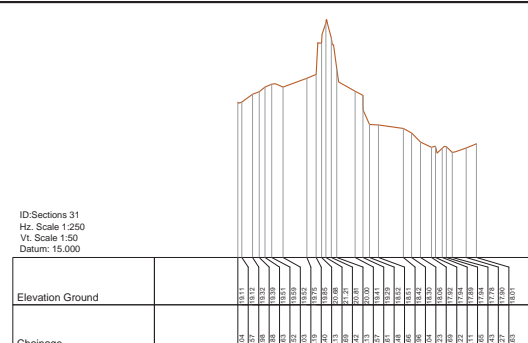
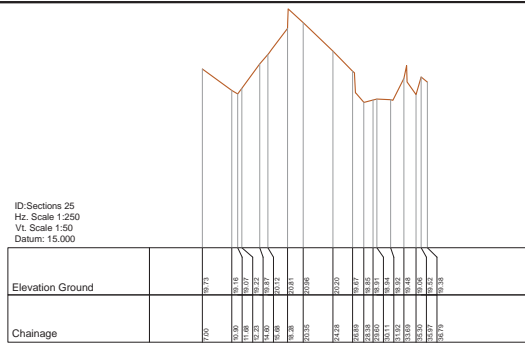
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Description : Topographical Survey

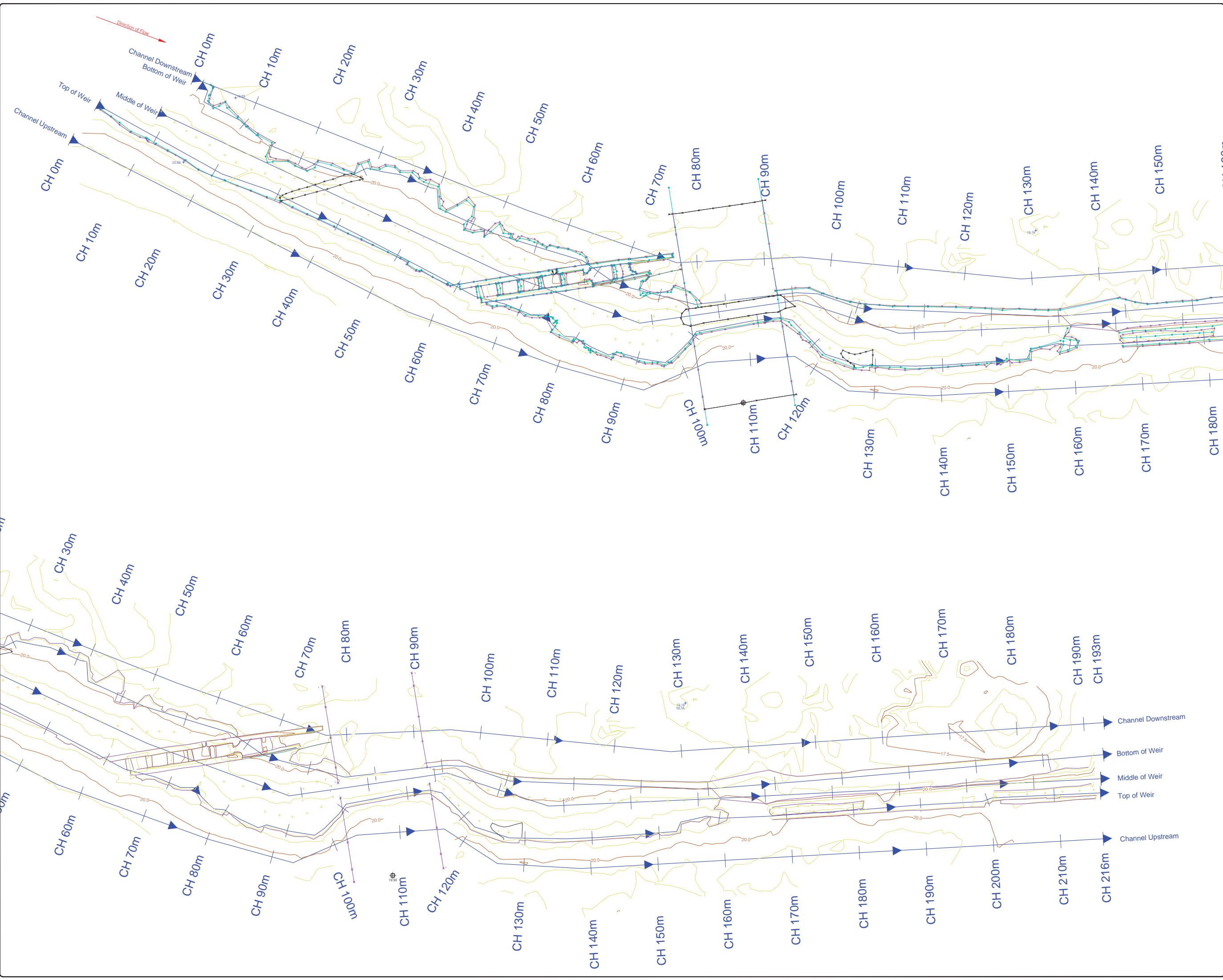
Drawing Number : FERMOY WEIR CROSS SECTIONS PLAN

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[illegible]



LEGEND		Street Furniture & Services	
	Over Head Wires (LIAS) - Pylon ESSE		Road Sign
	Floated		Bench Seat
	Pipe		Kiosk
	Lit		Cable Box
	Basin		Gravel Path
	Pump		Waste Bin
	Trial Pit		Hydrant
	Bus/Traffic Shelter		Free Hydrant
	Postbox		ESB Inspection Cover
	Water - General		CCV Camera Pole
	Water Valve		Lamp Post
	Gas Valve		Foot Manhole
	Gas Valve		Surface Water MH
	Air Valve		Manciples
	Sleep Clock		Air Conditioning Vents
	C/P Road		Services Inspection Cover
	Main Post		Traffic Inspection Cover
	Traffic Light		ESAT T Inspection Cover
	Parking Meter		Casey T Inspection Cover
	Plane Alarm Mark		NTL Inspection Cover
	Smart Card Validator		ENL Inspection Cover
	Unknown Water		Reading Eye
Natural Features			
	Surface Change		Water Level
	Land Drain		Crown Level
	Bottom of Slope		Invert Level
	Top of Slope		Bed Level
	Ditch		Spotlight
	Water Edge / Lake / Pond		Top of Tree
	Hedge / Trees Dip Line / Vegetation		Tree Deciduous
	Tree Coniferous		Golf
			Pin Way
			Green
			QBCE
			Tree Box
			Other
			Survey Station
			Photo point
			Ree Alignment
Build Features			
	Building		Fence
	Edge of Road		Gate
	Kerb Bottom		Road Centreline
	Kerb Top		Tall Wall
	Bridge Abutment		Hoarding
	Bridge Deck		Property Line
	Bridge Piercapet		Road Scar
	Building Facade		Top of Fence
	Fountain / Platform Train & Tram		Wall / Retaining Wall
	Dumping Point / Cource / Virge		Railway / Train Rail / Gating / Remp
	Bridge Pier / Walk & Gate Pill / LIAS Trackbed		Building Canyon / Roof / Overhang
	Cyclway / Private Landing Area		
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<p>Site Location</p>			
<p>Map Sheet Layout:</p>			
<p>Drawn by: MBS Date: Aug 2018 Datum: Mean Height Checked by: BK Date: Aug 2018 Grid System: Scale: 1:250.00 Horizontal Accuracy: Irish National Grid (TM)</p>			
No	Description	Remarks	
1	Final Drawing		
<h1 style="text-align: center;">murphy</h1> <h2 style="text-align: center;">SURVEYS</h2> <p style="text-align: center;">GLOBAL CONSULTING SURVEYORS</p> <p style="text-align: center;">Topographic surveys, Measured Building Surveys, Setting Out, As-Built Surveys, Hydrographic Surveys, Legal Mapping, Pipeline Surveys, Services Location, Ground Penetrating Radar, Laser Scanned Photogrammetry</p> <p style="text-align: center;">Kildare Cork Belfast Glasgow London</p> <p>Head Office Global House Kilkullen Business Campus Kilkullen Co. Kildare Ireland</p> <p>Phone: (+353) 405 484040 Fax: (+353) 405 484004 Email: info@murphysurveys.ie</p>			
<p>Client: TJ_O_Connor & Associates</p> <p>Project: 27232 18024_Fermoy_Weir</p> <p>Date: 28.08.18 Scale: AS SHOWN @A1</p> <p>Description: Topographical Survey</p> <p>Drawing Number: FERMOY WEIR_CROSS SECTIONS_PROFILE 02</p> <p style="text-align: center;">© Copyright 2018 MURPHY SURVEYS LTD</p>			



LEGEND
Street furniture & Services

Over Head Wires (LUAS) - Pylon ESB	Bus Stop	Road Sign	Phone Box
Flowerbed	Ballast	Bus Stop	Gas Cover
Pipe	Beacon	Gully	Gas Cover
Lift	Coalhole Cover	UG Valve	UG Car Park Vent
Barrier	Bore Hole	Waste Bin	Waste Bin
Pump	Electricity Pole	Hydrant	Hydrant
Trail Pit	Telegraph pole	Fire Hydrant	Fire Hydrant
Bus/Tram Shelter	Postbox	ESB Box	ESB Box
Valve - General	CCTV Camera Pole	ESB Inspection Cover	ESB Inspection Cover
Water Valve	Lamp Post	Traffic Control Box	Traffic Control Box
Gas Valve	Four Manhole	LUAS Technical Cubicle	LUAS Technical Cubicle
Sluice Valve	Surface Water MH	Ticket Vending Machine	Ticket Vending Machine
Air Valve	Manholes	Water Meter Cover	Water Meter Cover
Stop Cock	Air Conditioning Vents	Telecom Inspection Cover	Telecom Inspection Cover
C P Post	Services Inspection Cover	Monument / Toilets	Monument / Toilets
Marker Post	Traffic Inspection Cover	Tank Storage	Tank Storage
Traffic Light	Cable TV Inspection Cover	Basement: MH, Cover & Pipe	Basement: MH, Cover & Pipe
Parking Meter	ESAT Inspection Cover	Dispersed Aerial Mark	Dispersed Aerial Mark
Play Area Mark	ESAT Inspection Cover	Stop for sale	Stop for sale
Small Card Validator	ESAT Inspection Cover	Pipe Protection	Pipe Protection
Unknown Valve	Rodding Eye	Washout	Washout

Natural Features

Surface Change	Water Level	Water Level	Fair Way
Land Drain	Crown Level	Green	Green
Bottom of Slope	Invert level	Tree Box	Tree Box
Ditch	Bed Level	Other	Other
Water Edge / Lake / Pond	Spot Height	Survey Station	Survey Station
Hedge / Trees Drip Line / Vegetation	Top of Tree	Photo point	Photo point
Tree Coniferous	Tree Deciduous	River Alignment	River Alignment

Built Features
Roads & Road Markings

Building	Fence	Floor Level	Floor Level
Edge of Road	Gate	Apex Height	Apex Height
Kerb Bottom	Road Centreline	Eaves Height	Eaves Height
Kerb Top	Top of Wall	Parapet Height	Parapet Height
Bridge Abutment	Hoarding	Soft Elevation	Soft Elevation
Bridge Deck	Property Line	Step Level	Step Level
Bridge Parapet	Road Bar	Concrete Pad	Concrete Pad
Building Facade	Top of Fence	Track	Track
Footpath / Platform Ties & Ties	Wall / Retaining Wall	Building Canopy / Roof / Overhang	Building Canopy / Roof / Overhang
Damp Proof / Course / Vein	Railway / Tram Rail / Gating / Ramp		
Bridge Pier / Wall & Gate Pillar / LUAS Trackbed			
Cycleway / Private Landing Area			

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Map Sheet Layout:

Drawn by: MSL	Date: Aug 2018	Drawn by: Main Head
Checked by: BK	Date: Aug 2018	Grid System: Irish National Grid
Checked by: KC	Date: Aug 2018	Grid System: Irish National Grid

No.	Date	Description	Revised
1	28.08.18	Final Drawing	

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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

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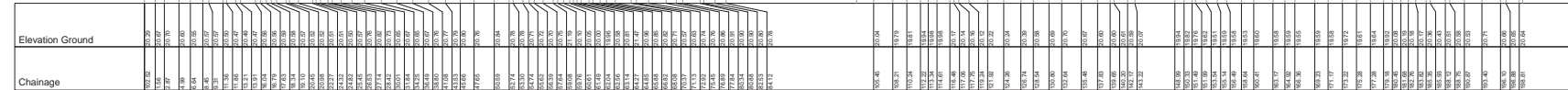
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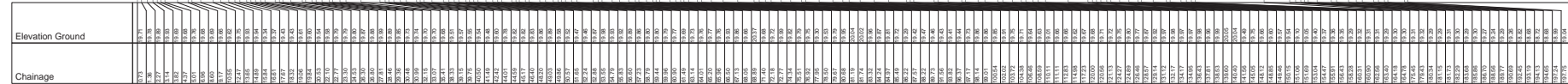
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ID:Channel Downstream
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Datum: 15.000



LEGEND
Street furniture & Services

- Over Head Wires (LUAS) - Pylon ESB
- Flowerbed
- Pipe
- Light
- Barrier
- Pump
- Trial Pit
- Bus/Tam Shelter
- Postbox
- Valve - General
- Water Valve
- Gas Valve
- Air Valve
- Stop Cock
- C P Post
- Traffic Light
- Parking Meter
- Play Area Mark
- Smart Card Validator
- Open Valve
- Bus Stop
- Ballast
- Coalhole Cover
- Bore Hole
- Electricity Pole
- Telegraph pole
- OCS Pole
- CCTV Camera Pole
- Lamp Post
- Foul Manhole
- Surface Water MH
- Manholes
- Air Conditioning Vents
- Cable TV Inspection Cover
- ESAT Inspection Cover
- UTL Inspection Cover
- EScom Inspection Cover
- Rodding Eye
- Basin Step
- Kiosk
- Gully
- UG Car Park Vent
- Waste Bin
- Hydrant
- Fire Hydrant
- ESB Box
- ESB Inspection Cover
- Traffic Control Box
- LUAS Technical Cabinet
- Ticket Vending Machine
- Water Meter Cover
- Telecom Inspection Cover
- Monument / Toilets
- Tank Storage
- Basement MH Cover & Pipe
- Dispersed Aerial Mark
- Stop for pole
- Pipe Protection
- Washout

Natural Features

- Surface Change
- Land Drain
- Bottom of Slope
- Top of Slope
- Ditch
- Water Edge / Lake / Pond
- Hedge / Trees Dip Line / Vegetation
- Tree Coniferous
- Tree Deciduous
- Water Level
- Crown Level
- Invert level
- Bed Level
- Spotheight
- Top of Tree
- Fair Way
- Green
- Tee Box
- Other
- Survey Station
- Photo point
- River Alignment

Built Features
Roads & Road Markings

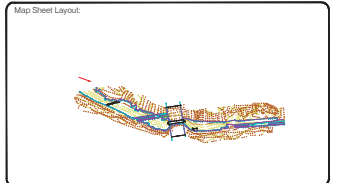
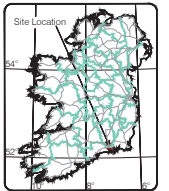
- Building
- Edge of Road
- Kerb Bottom
- Kerb Top
- Bridge Abutment
- Bridge Deck
- Bridge Parapet
- Building Facade
- Footpath / Platform Treen & Tram
- Damp Proof Course / Verge
- Bridge Pier / Wall & Gate Pier / LUAS Tracked
- Cycleway / Private Landing Area
- Fence
- Gate
- Road Centreline
- Top of Wall
- Hoarding
- Property Line
- Road Stop
- Top of Fence
- Wall / Retaining Wall
- Railway / Tram Rail / Gating / Ramp
- Building Canopy / Road / Overhang
- Floor Level
- Apex Height
- Eaves Height
- Parapet Height
- Soft Elevation
- Step Level
- Concrete Pad
- Track

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Drawn by	ML	Date	Aug 2018	Drawn by	ML
Checked by	ML	Date	Aug 2018	Checked by	ML
Scale	1:250	Scale	1:250	Scale	1:250
Sheet	1	Sheet	1	Sheet	1
Project	27232 18024_Fermoy_Weir	Project	27232 18024_Fermoy_Weir	Project	27232 18024_Fermoy_Weir
Client	TJ_O_Connor_& Associates	Client	TJ_O_Connor_& Associates	Client	TJ_O_Connor_& Associates

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Fax: (+353) 045 484004
Email: info@murphysurveys.ie

Client : TJ_O_Connor_& Associates

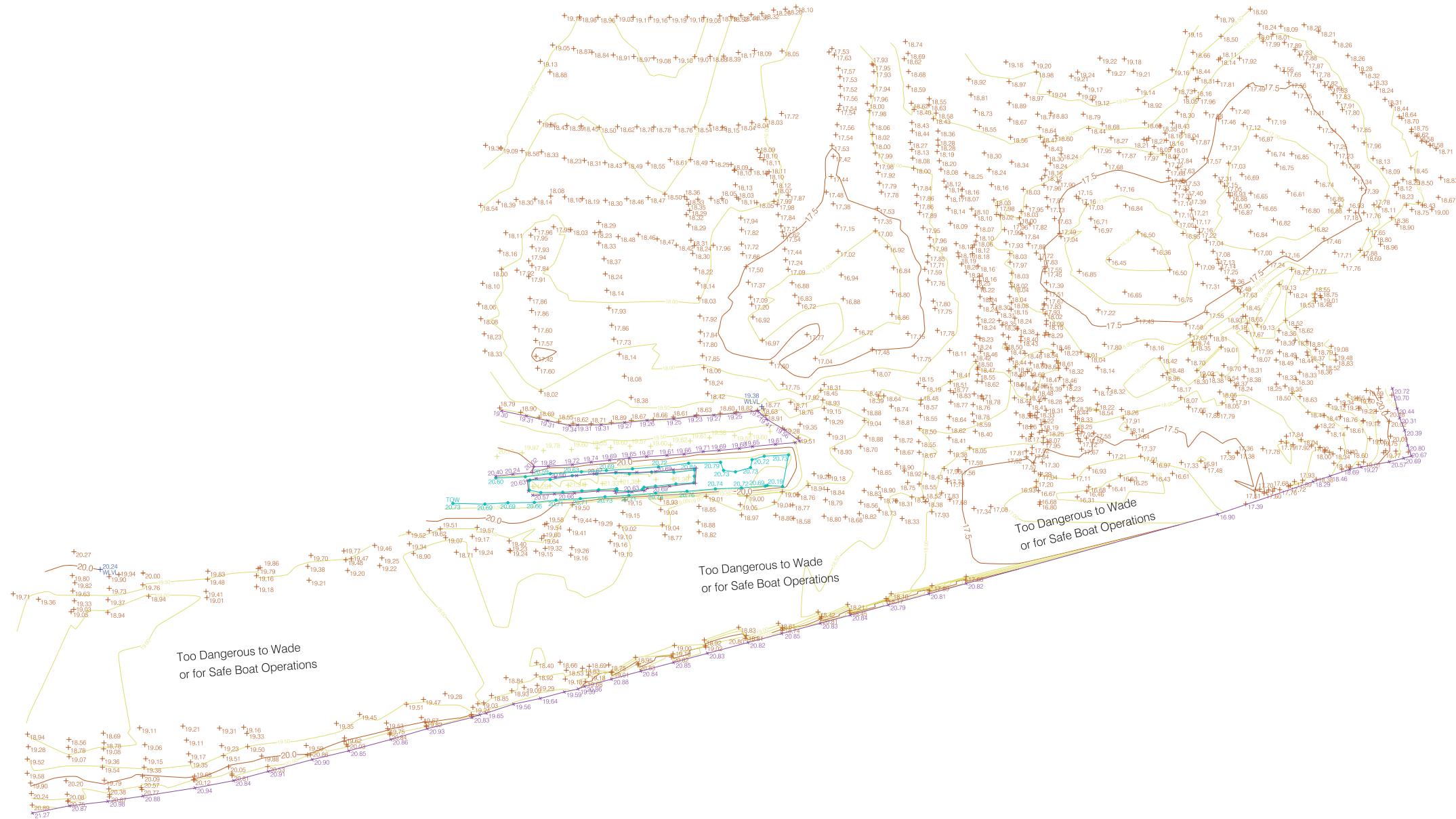
Project : 27232 18024_Fermoy_Weir

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

Description : Topographical Survey

Drawing Number : FERMOY WEIR_LONG SECTION_01

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LEGEND

Street furniture & Services

[illegible]

Natural Features

	Surface Change		WLVL	Water Level		FWAY	Fair Way
	Land Drain		CRWN	Crown Level		OREE	Green
	Bottom of Slope		IL	Invert level		TBOX	Tee Box
	Top of Slope		BL	Bed Level		Other	
	Ditch		S	Spotheight		ST	Survey Station
	Water Edge / Lake / Pond						Photo point
	Hedge / Trees Drop Line / Vegetation						
	Trees Coniferous		TD	Tree Deciduous		TOT	Top of Tree

Built Features

Roads & Road Markings

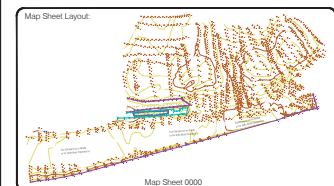
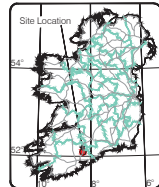
North - Road Markings					
	Building		Fence		Floor Level
	Edge of Road		Gate		Apex Height
	Kerb Bottom		Road Centreline		Parapet Height
	Kerb Top		Top of Wall		Parapet Height
	Bridge Abutment		Hoarding		Soft Level
	Bridge Deck		Property Line		Step Level
	Bridge Parapet		Roof Line		Concrete Pad
	Building Facade		Top of Fence		Track
	Footpath / Platform Train & Tram		Wall / Retaining Wall		
	Damp Proof Course / Verge		Railway / Train Rail / Grating / Ramp		
	Bridge Pier / Wall & Gate Pier / LUAS Trackbed		Gravelled Canopy / Roof / Overhang		

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[illegible]

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Client :	
TJ O connor & Associates	
Project :	
Fermoy Mill Race River Bed Survey	
Date :	Scale :
11.08.20	1:150@A0
Description :	
River Bed Survey	
Drawing Number :	MSL3000_01
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