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OSi Sheet numbers:  
 4427, 4427-B, 4427-D, 4427-15, 4427-20, 4427-25, 4428, 4428-A, 4428-C,  
 4428-07, 4428-11, 4428-12, 4428-16, 4428-17, 4428-18 & 4370



Issue	Date	By	Chkd	Appd
I01	18/02/19	TD	TD	C'OD

Client



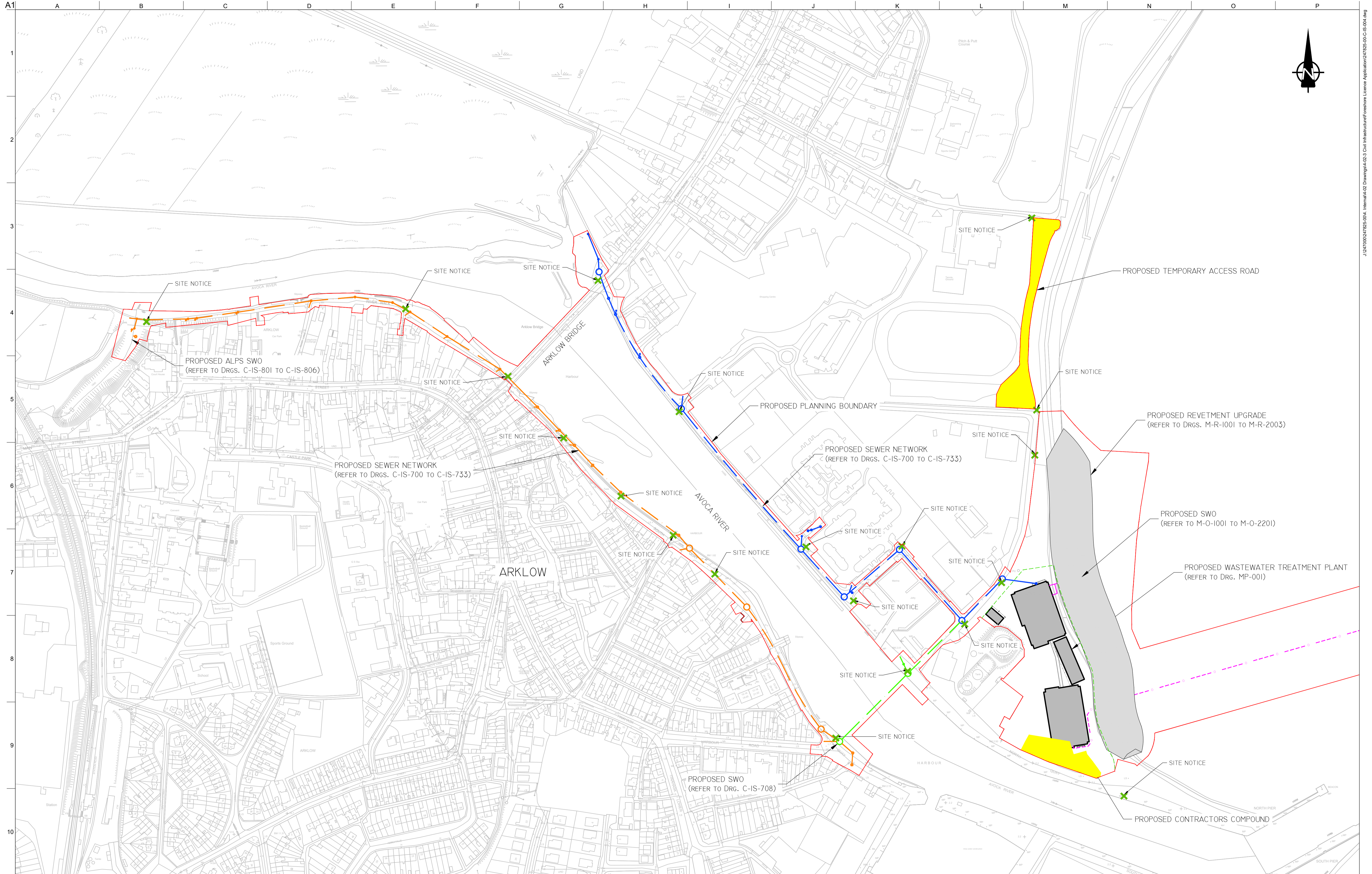
Job Title  
**ARKLOW WASTEWATER  
 TREATMENT PLANT PROJECT  
 (Foreshore Consent Application)**

Scale at A1 1:5000  
 Discipline Infrastructure

**ARUP BYRNELOOBY**  
 CLANCY MOORE ARCHITECTS

Drawing Title  
**OVERALL SITE LOCATION MAP**

Drawing Status  
**FORESHORE CONSENT**  
 Job No 247825-00 Drawing No C-IS-003 Issue I01



**NOTES:**

- ALL DIMENSIONS IN M UNLESS OTHERWISE NOTED.
- ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM MALIN.

**LEGEND**

	PROPOSED PLANNING BOUNDARY		PROPOSED OUTFALL \ SWO
	PROPOSED FINAL WWTP SITE BOUNDARY		PROPOSED TEMPORARY ACCESS \ CONSTRUCTION COMPOUND
	PROPOSED SITE NOTICES		
	PROPOSED NORTHERN INTERCEPTOR		
	PROPOSED SOUTHERN INTERCEPTOR		
	PROPOSED RIVER CROSSING		

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OSi Sheet numbers:  
 4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	C'OD
I01	18/02/19	TD	TD	C'OD

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
 1:2000

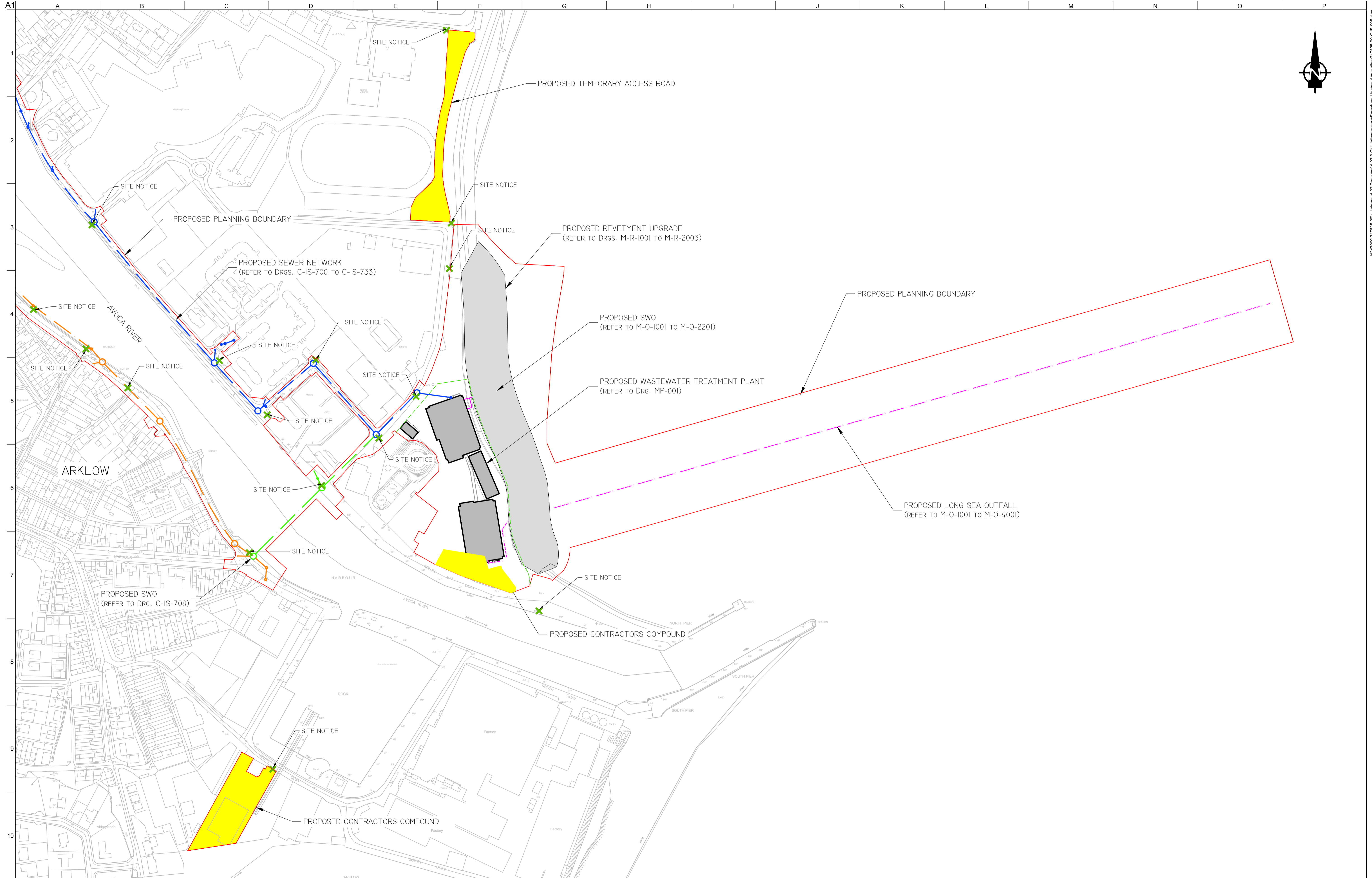
Discipline  
 Infrastructure

CLANCY MOORE ARCHITECTS

Drawing Title  
**SCHEME LAYOUT PLAN SHEET 1 OF 2**

Drawing Status  
**FORESHORE CONSENT**

Job No 247825-00	Drawing No C-IS-004	Issue I01
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NOTES:

- ALL DIMENSIONS IN M UNLESS OTHERWISE NOTED.
- ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM MALIN.

LEGEND

	PROPOSED PLANNING BOUNDARY		PROPOSED OUTFALL \ SWO
	PROPOSED FINAL WWTP SITE BOUNDARY		PROPOSED TEMPORARY ACCESS \ CONSTRUCTION COMPOUND
	PROPOSED SITE NOTICES		
	PROPOSED NORTHERN INTERCEPTOR		
	PROPOSED SOUTHERN INTERCEPTOR		
	PROPOSED RIVER CROSSING		

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 OSi Sheet numbers:  
 4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	C'OD
I01	18/02/19	TD	TD	C'OD



Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foreshore Consent Application)

Scale at A1  
 1:2000

Discipline  
 Infrastructure

**ARUP BYRNE LOOBY**

CLANCY MOORE ARCHITECTS

Drawing Title  
**SCHEME LAYOUT PLAN**  
 SHEET 2 OF 2

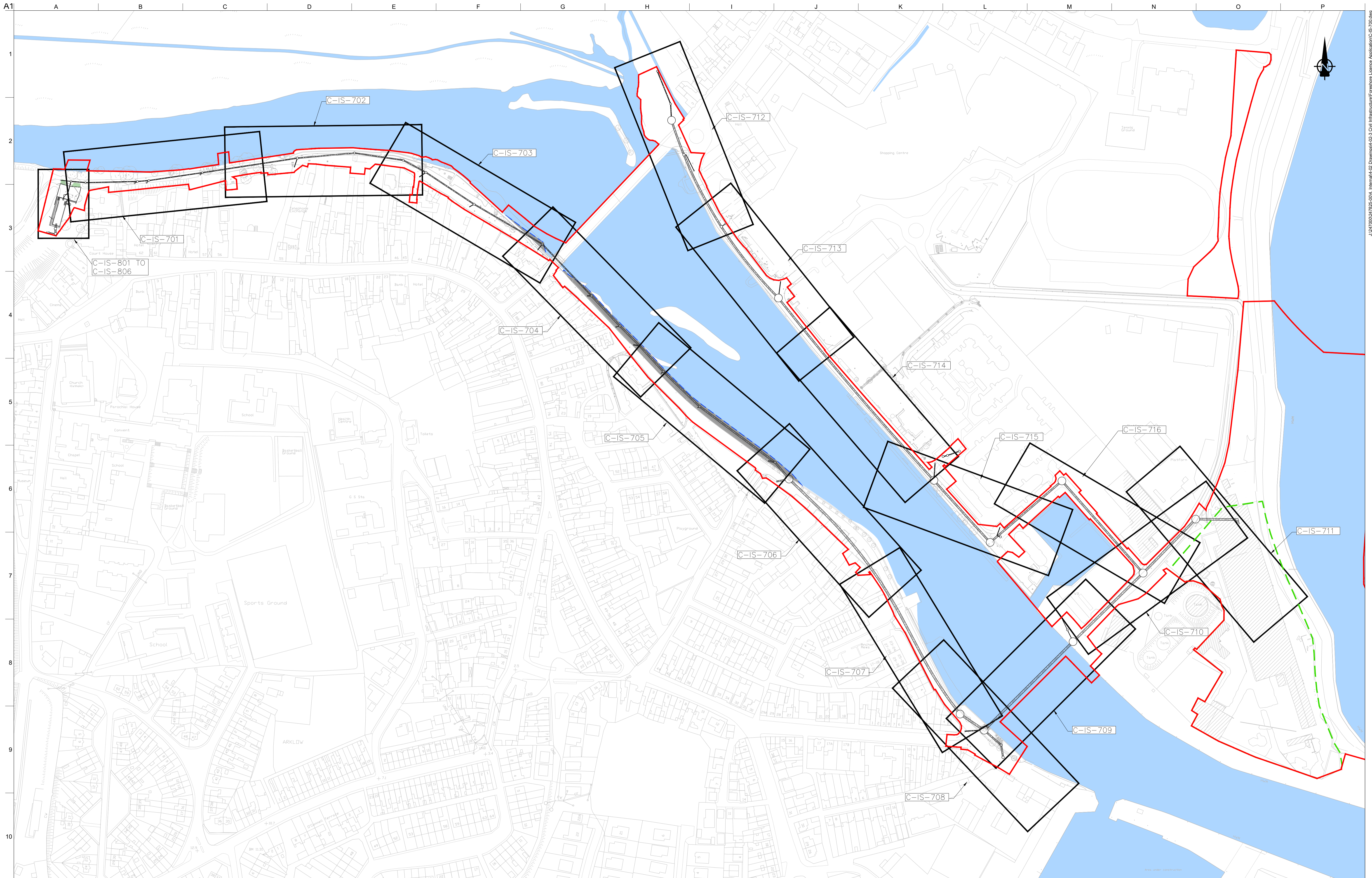
Drawing Status  
**FORESHORE CONSENT**

Job No  
**247825-00**

Drawing No  
**C-IS-005**

Issue  
**I01**

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**LEGEND**  
 PROPOSED PLANNING BOUNDARY  
 PROPOSED WWTP SITE BOUNDARY  
 PROPOSED INTERCEPTOR SEWER  
 PROPOSED SHEET PILE WITH CAPPING BEAM  
 RECLAIMED LAND

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 OSi Sheet numbers:  
 4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17



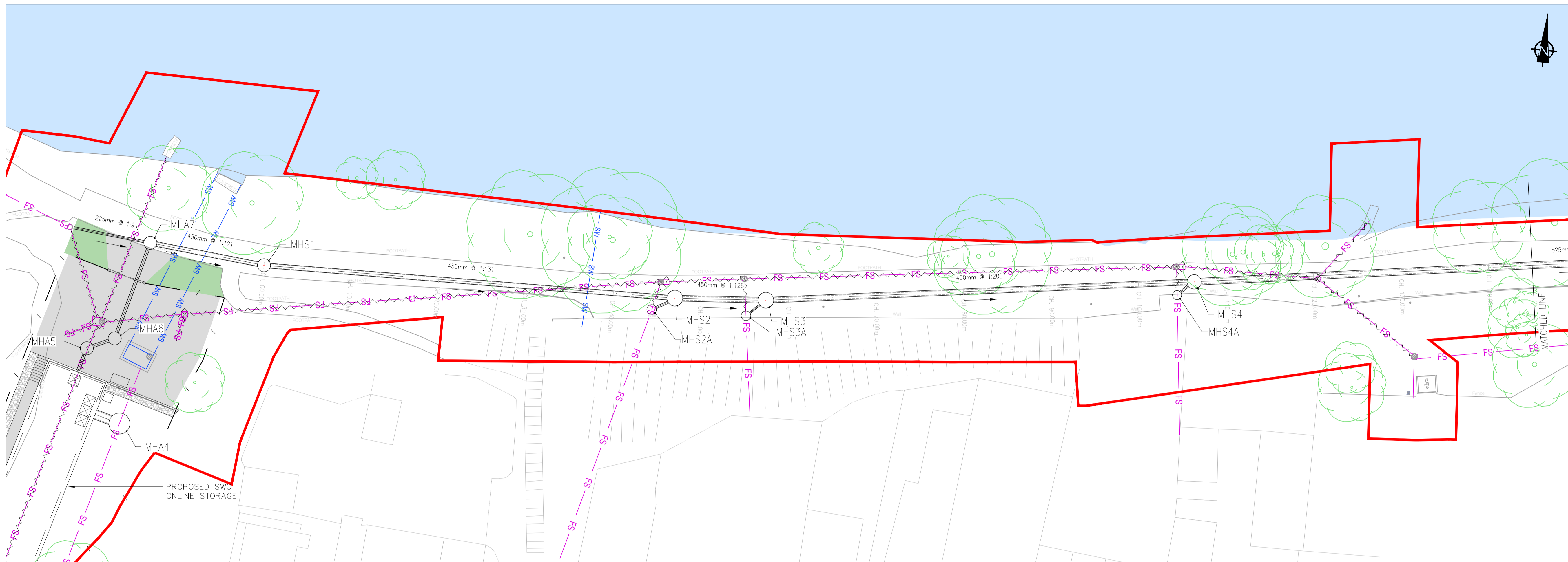
Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client

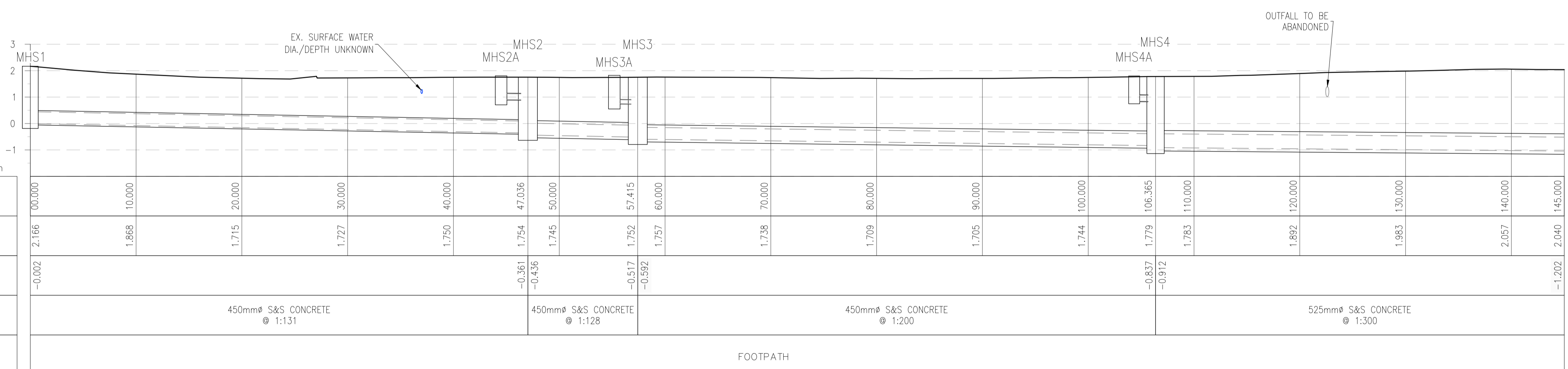
Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foresore Consent Application)  
 Scale at A1 NOT TO SCALE  
 Discipline CIVIL

**ARUP BYRNE LOOBY**  
**CLANCY MOORE ARCHITECTS**

Drawing Title  
**LOCATION KEY PLAN**  
 Drawing Status  
**FORESORE CONSENT**  
 Job No 247825-00 Drawing No C-IS-700 Issue I01



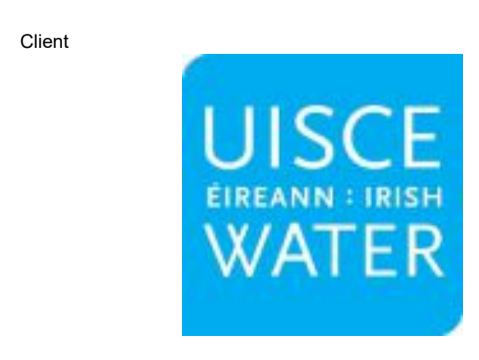
LOCATION PLAN  
SCALE: 1:250 © A1



SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Client  
**UISCE EIREANN: IRISH WATER**

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
AS SHOWN

Discipline  
CIVIL

ARUP BYRNE LOOBY  
CLANCY MOORE ARCHITECTS

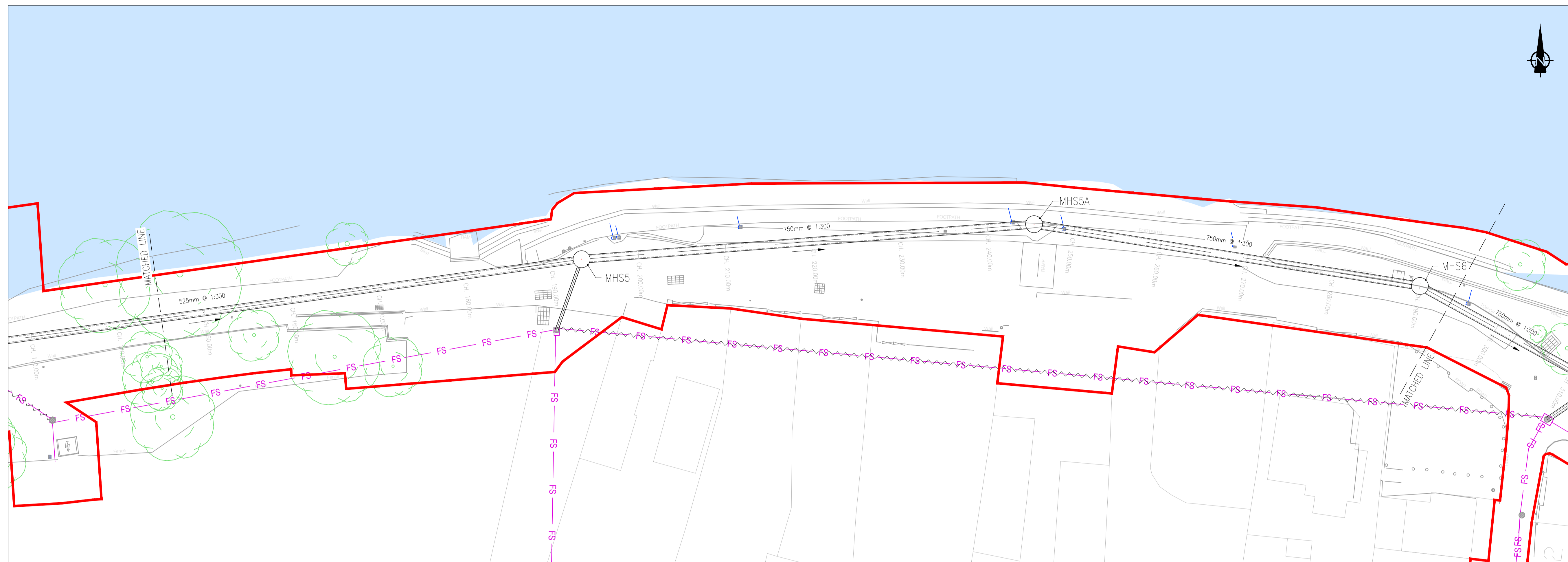
Drawing Title  
**LAYOUT PLAN & LONGITUDINAL SECTION 1 OF 16**

Drawing Status  
**FORESHORE CONSENT**

Job No  
247825-00

Drawing No  
C-IS-701

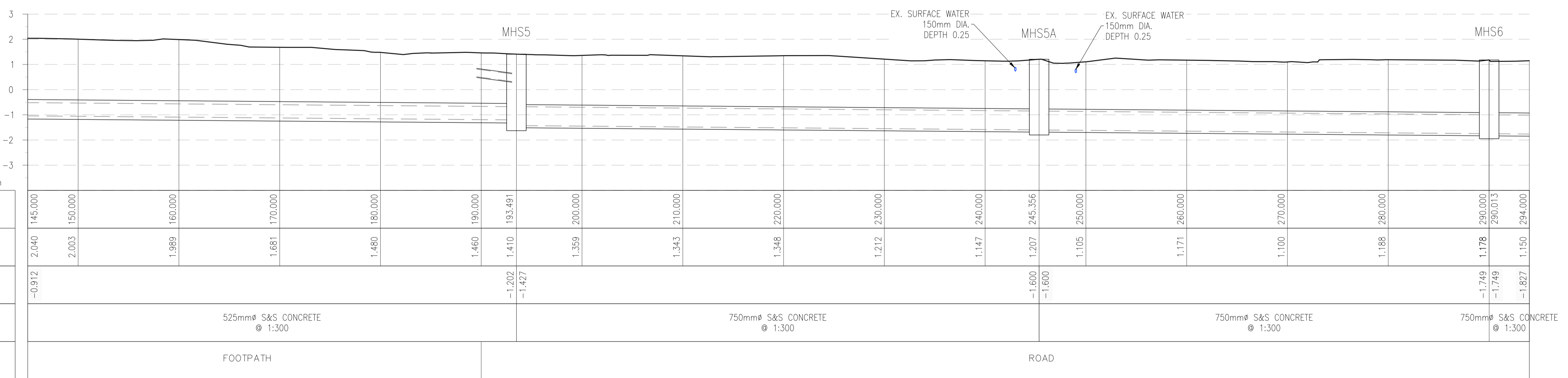
Issue  
I01



**LEGEND**

- PROPOSED PLANNING BOUNDARY
- PROPOSED WWTP SITE BOUNDARY
- PROPOSED INTERCEPTOR SEWER
- PROPOSED SHEET PILE WITH CAPPING BEAM
- PROPOSED VENT STACK
- EXISTING FOUL/COMBINED SEWER
- EXISTING SURFACE WATER
- TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

LOCATION PLAN  
SCALE: 1:250 @ A1



SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
AS SHOWN

Discipline  
CIVIL

CLANCY MOORE ARCHITECTS

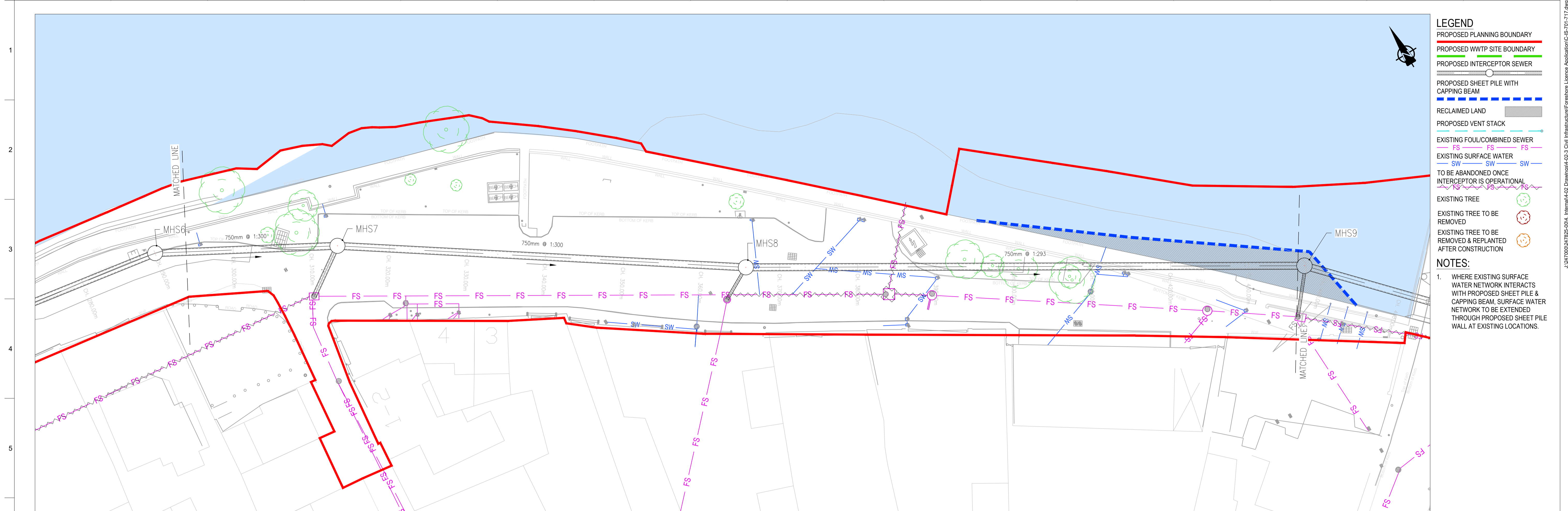
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Drawing Status  
**FORESHORE CONSENT**

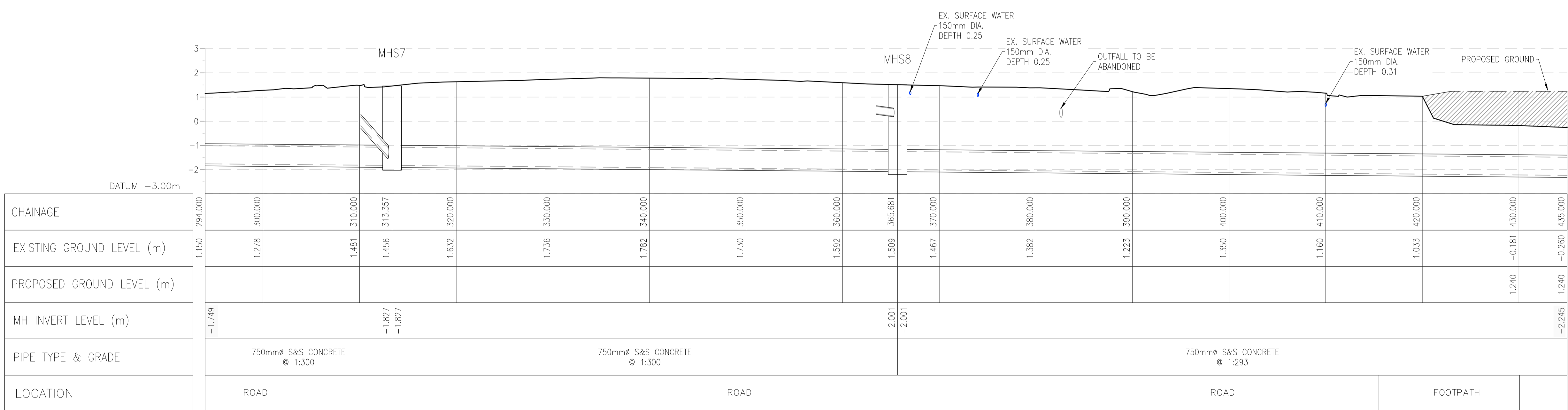
Job No  
247825-00

Drawing No  
C-IS-702

Issue  
I01



LOCATION PLAN  
SCALE: 1:250 © A1



SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
(Foreshore Consent Application)

Scale at A1  
AS SHOWN

Discipline  
CIVIL

**ARUP BYRNE LOOBY**

**CLANCY MOORE ARCHITECTS**

Drawing Title  
**LAYOUT PLAN & LONGITUDINAL SECTION**  
3 OF 16

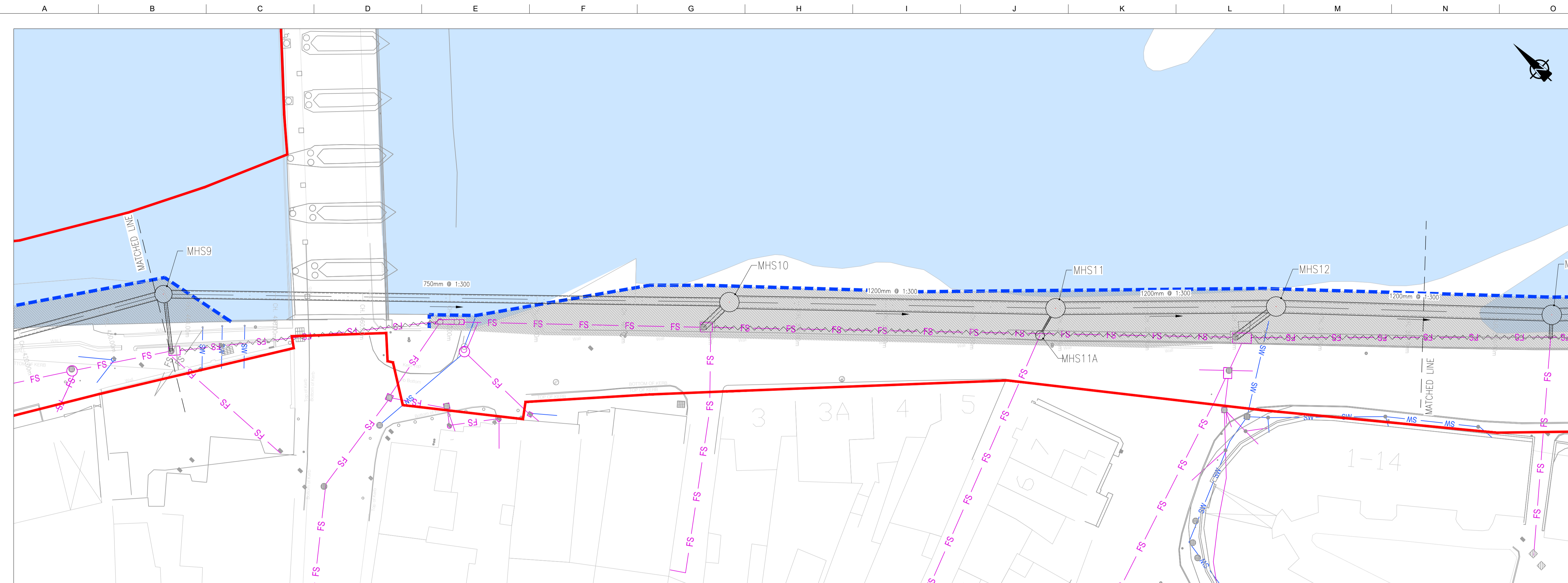
Drawing Status  
**FORESHORE CONSENT**

Job No  
247825-00

Drawing No  
C-IS-703

Issue  
I01

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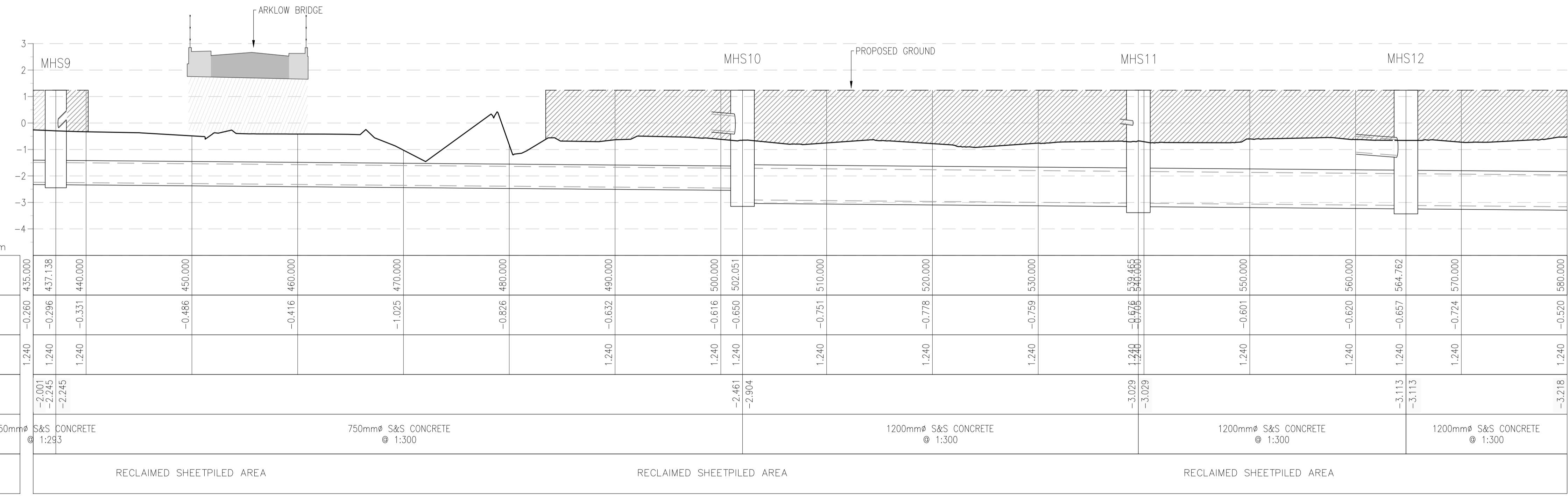


- LEGEND**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - RECLAIMED LAND
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

**NOTES:**

- WHERE EXISTING SURFACE WATER NETWORK INTERACTS WITH PROPOSED SHEET PILE & CAPPING BEAM, SURFACE WATER NETWORK TO BE EXTENDED THROUGH PROPOSED SHEET PILE WALL AT EXISTING LOCATIONS.

LOCATION PLAN  
SCALE: 1:250 @ A1



SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17



Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
AS SHOWN

Discipline  
CIVIL

CLANCY MOORE ARCHITECTS

Drawing Title  
**LAYOUT PLAN & LONGITUDINAL SECTION 4 OF 16**

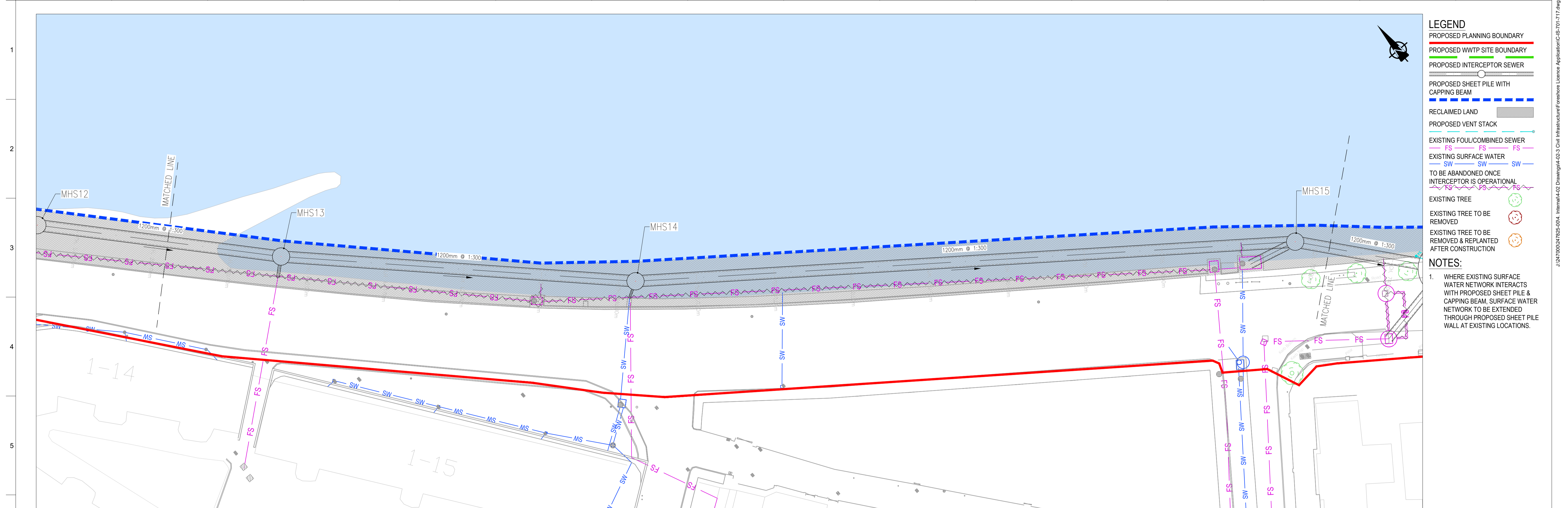
Drawing Status  
**FORESHORE CONSENT**

Job No  
247825-00

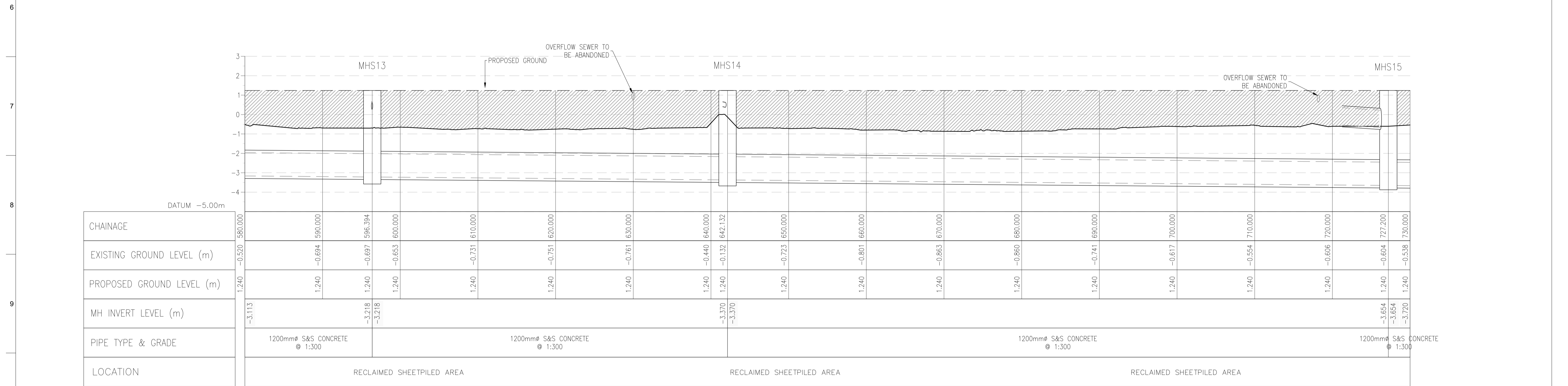
Drawing No  
C-IS-704

Issue  
I01





LOCATION PLAN  
SCALE: 1:250 @ A1



SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
(Foreshore Consent Application)

Scale at A1  
AS SHOWN

Discipline  
CIVIL

CLANCY MOORE ARCHITECTS

Drawing Title  
**LAYOUT PLAN & LONGITUDINAL SECTION**  
5 OF 16

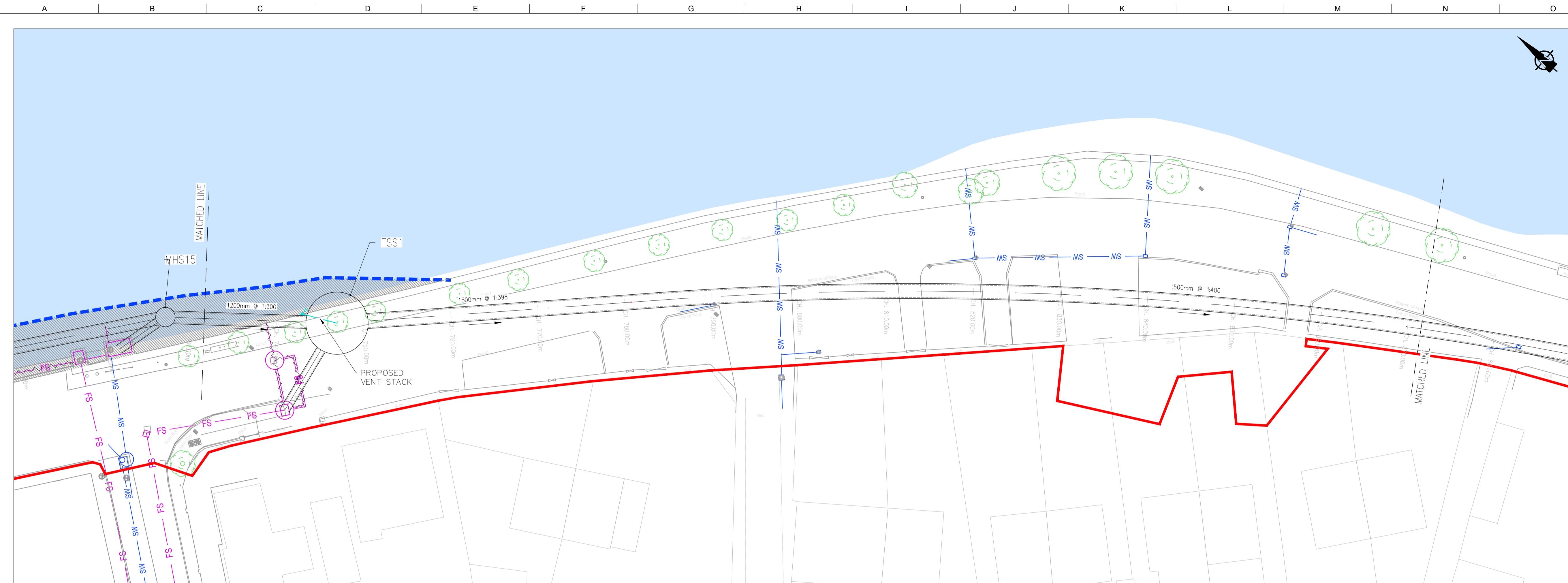
Drawing Status  
**FORESHORE CONSENT**

Job No  
247825-00

Drawing No  
C-IS-705

Issue  
101

A1  
1  
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**LEGEND**

- PROPOSED PLANNING BOUNDARY
- PROPOSED WWTP SITE BOUNDARY
- PROPOSED INTERCEPTOR SEWER
- PROPOSED SHEET PILE WITH CAPPING BEAM
- RECLAIMED LAND
- PROPOSED VENT STACK
- EXISTING FOUL/COMBINED SEWER
- EXISTING SURFACE WATER
- TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

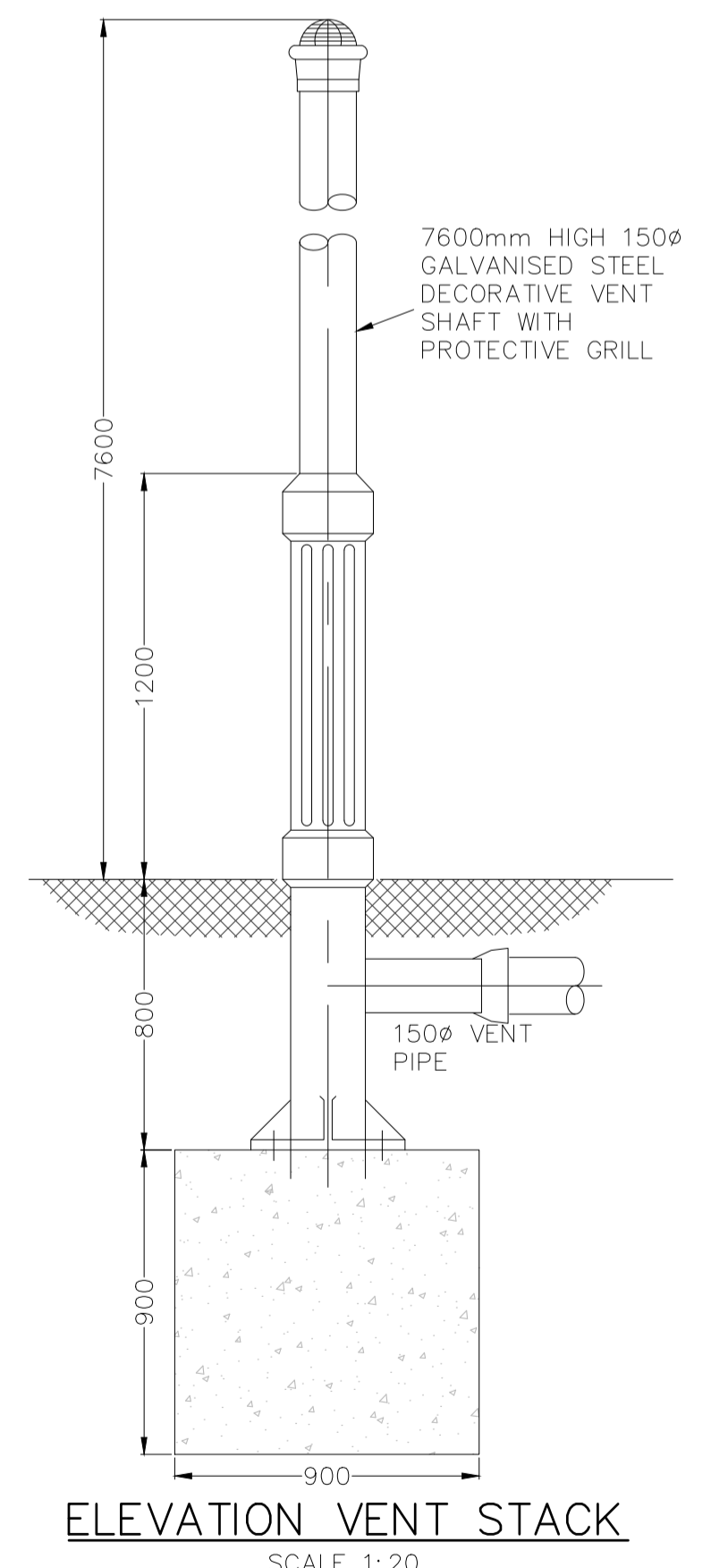
**NOTES:**

- WHERE EXISTING SURFACE WATER NETWORK INTERACTS WITH PROPOSED SHEET PILE & CAPPING BEAM, SURFACE WATER NETWORK TO BE EXTENDED THROUGH PROPOSED SHEET PILE WALL AT EXISTING LOCATIONS.

LOCATION PLAN  
SCALE: 1:250 © A1

CHAINAGE	EXISTING GROUND LEVEL (m)	PROPOSED GROUND LEVEL (m)	MH INVERT LEVEL (m)	PIPE TYPE & GRADE	LOCATION
730.000	-0.538	1.240	-3.654	1200mm S&S CONCRETE @ 1:300	RECLAIMED SHEETPILED AREA
740.000	-0.026		-3.720	1500mm S&S CONCRETE @ 1:398	FOOTPATH
746.906	0.853		-4.020		
750.000	1.095			1500mm S&S CONCRETE @ 1:398	ROAD
760.000	1.365				
770.000	1.463			1500mm S&S CONCRETE @ 1:400	PUBLIC REALM / GRASSED AREAS / ENTRANCE
780.000	1.476		-4.105		
780.717	1.471		-4.105	1500mm S&S CONCRETE @ 1:400	PUBLIC REALM / GRASSED AREAS / ENTRANCE
790.000	1.323				
800.000	1.428			1500mm S&S CONCRETE @ 1:400	PUBLIC REALM / GRASSED AREAS / ENTRANCE
810.000	1.465				
820.000	1.445			1500mm S&S CONCRETE @ 1:400	PUBLIC REALM / GRASSED AREAS / ENTRANCE
830.000	1.429				
840.000	1.456			1500mm S&S CONCRETE @ 1:400	PUBLIC REALM / GRASSED AREAS / ENTRANCE
845.444	1.438				
850.000	1.450			1500mm S&S CONCRETE @ 1:400	PUBLIC REALM / GRASSED AREAS / ENTRANCE
860.000	1.433				
870.000	1.452		-4.429	1500mm S&S CONCRETE @ 1:400	PUBLIC REALM / GRASSED AREAS / ENTRANCE

SCALE: H 1:250, V 1:100.



ELEVATION VENT STACK  
SCALE 1:20

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
AS SHOWN

Discipline  
CIVIL

ARUP BYRNE LOOBY

CLANCY MOORE ARCHITECTS

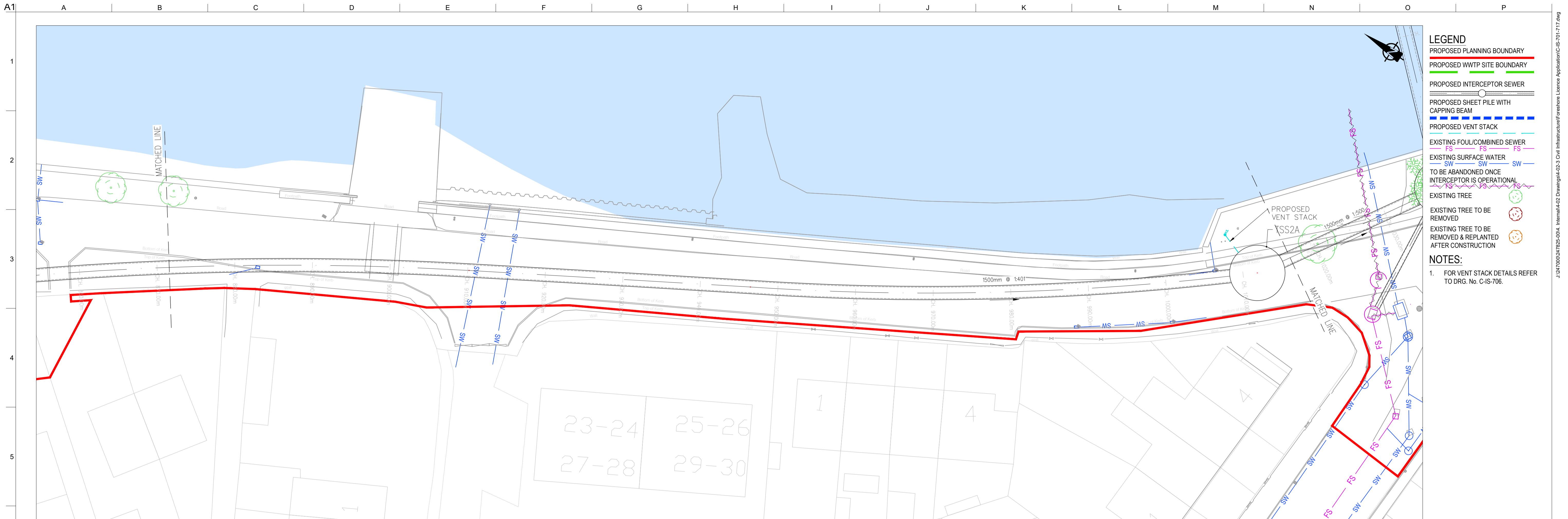
Drawing Title  
**LAYOUT PLAN & LONGITUDINAL SECTION 6 OF 16**

Drawing Status  
**FORESHORE CONSENT**

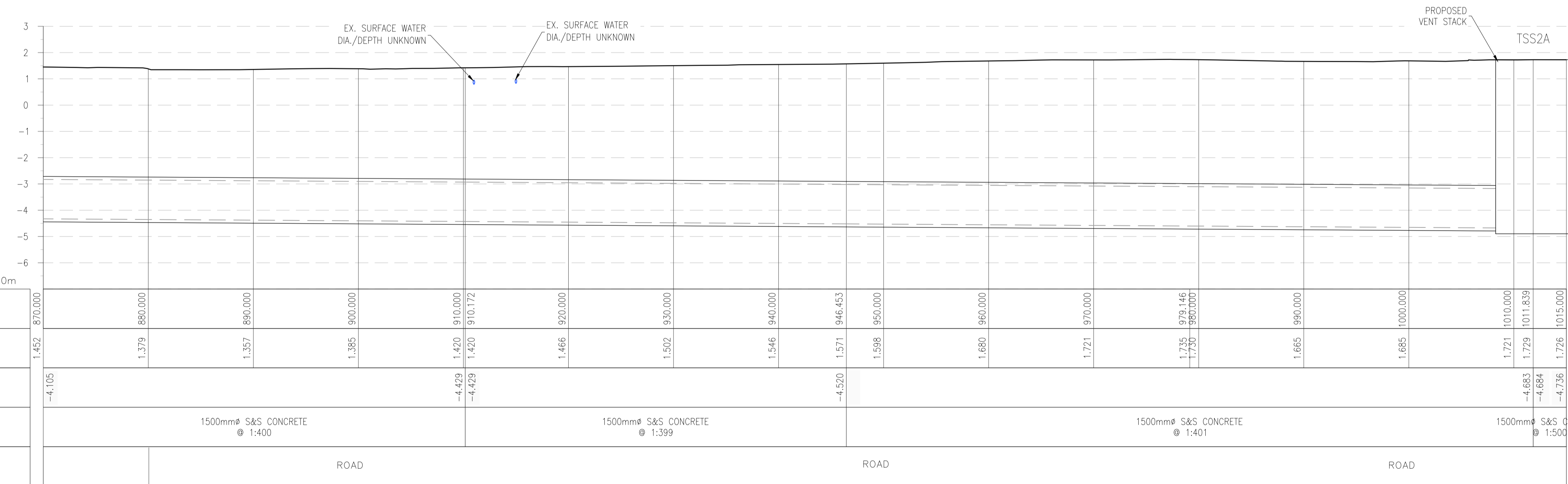
Job No  
247825-00

Drawing No  
C-IS-706

Issue  
I01



LOCATION PLAN  
SCALE: 1:250 @ A1



SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
AS SHOWN

Discipline  
CIVIL

ARUP BYRNE LOOBY

CLANCY MOORE ARCHITECTS

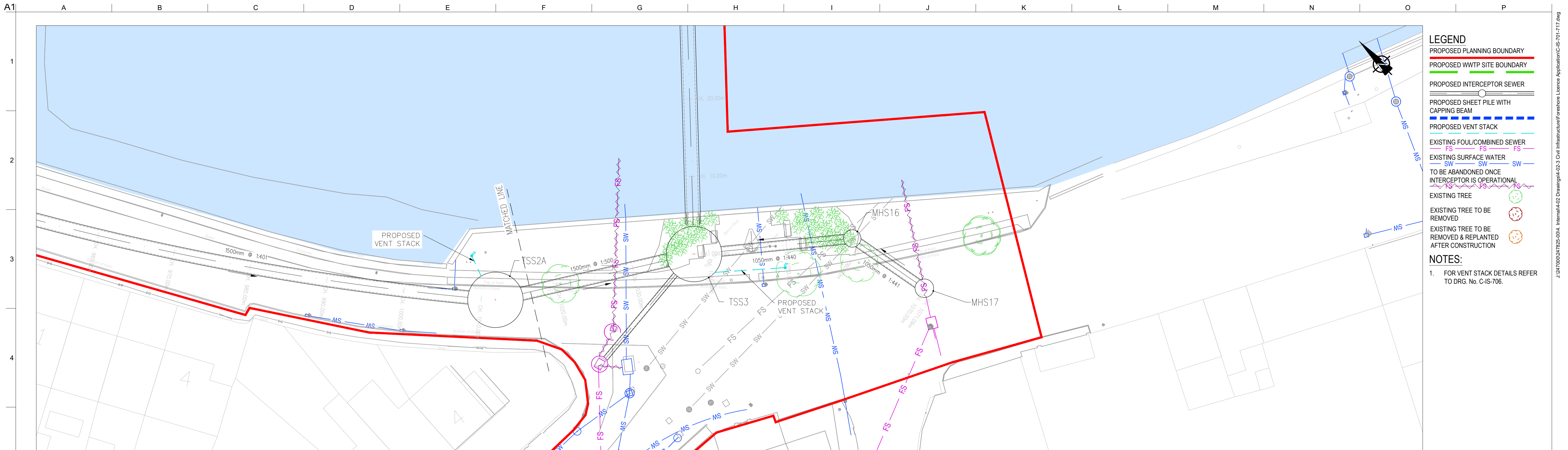
Drawing Title  
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Drawing Status  
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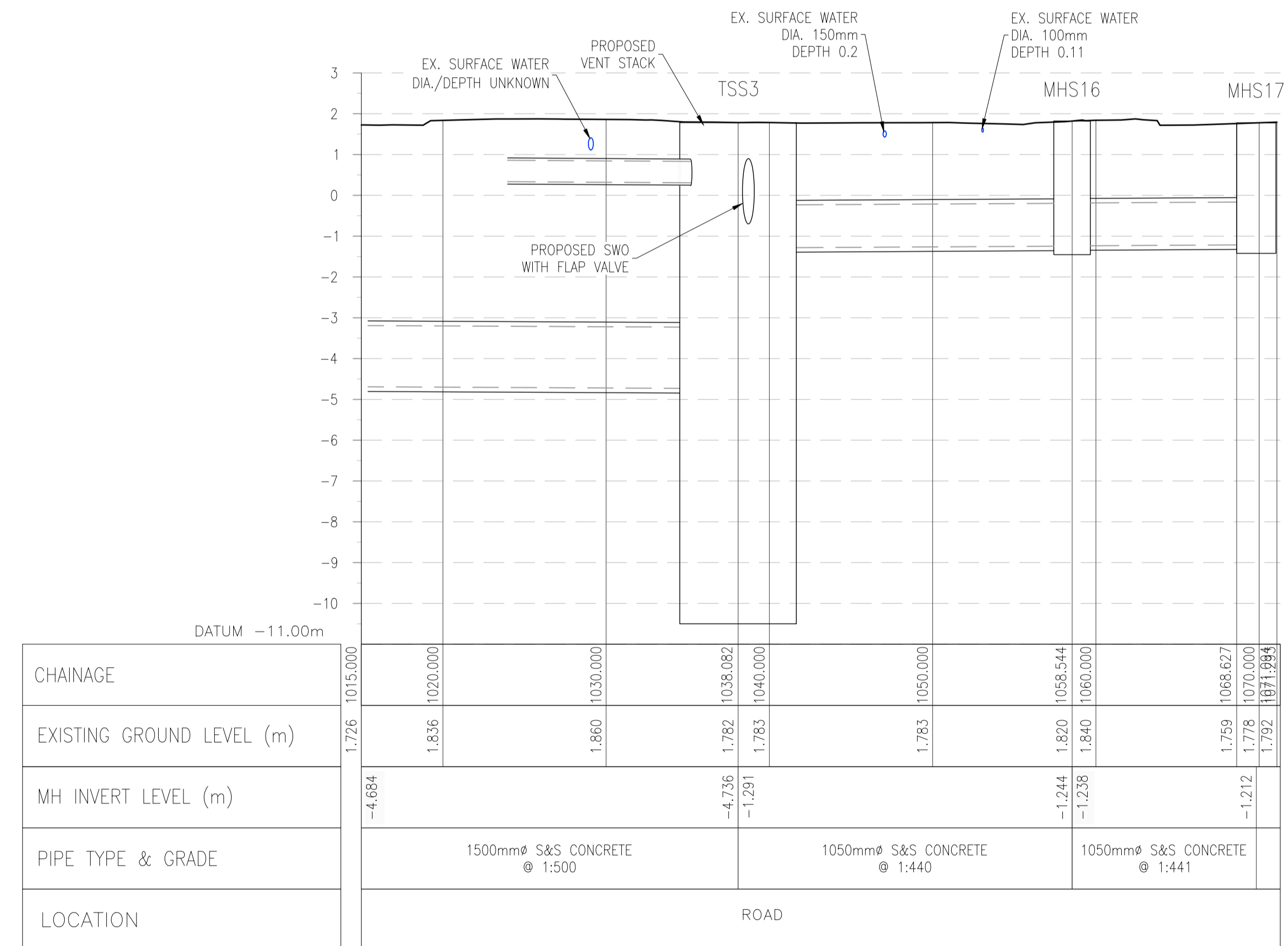
Job No  
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Drawing No  
C-IS-707

Issue  
I01

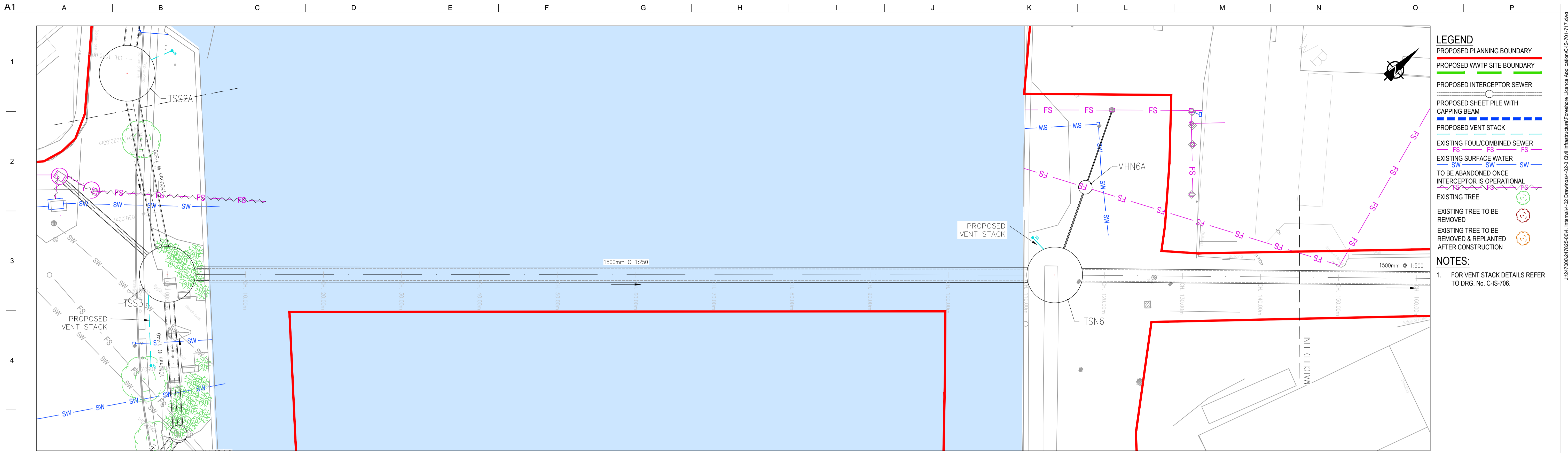


LOCATION PLAN  
SCALE: 1:250 @ A1



SCALE: H 1:250, V 1:100.

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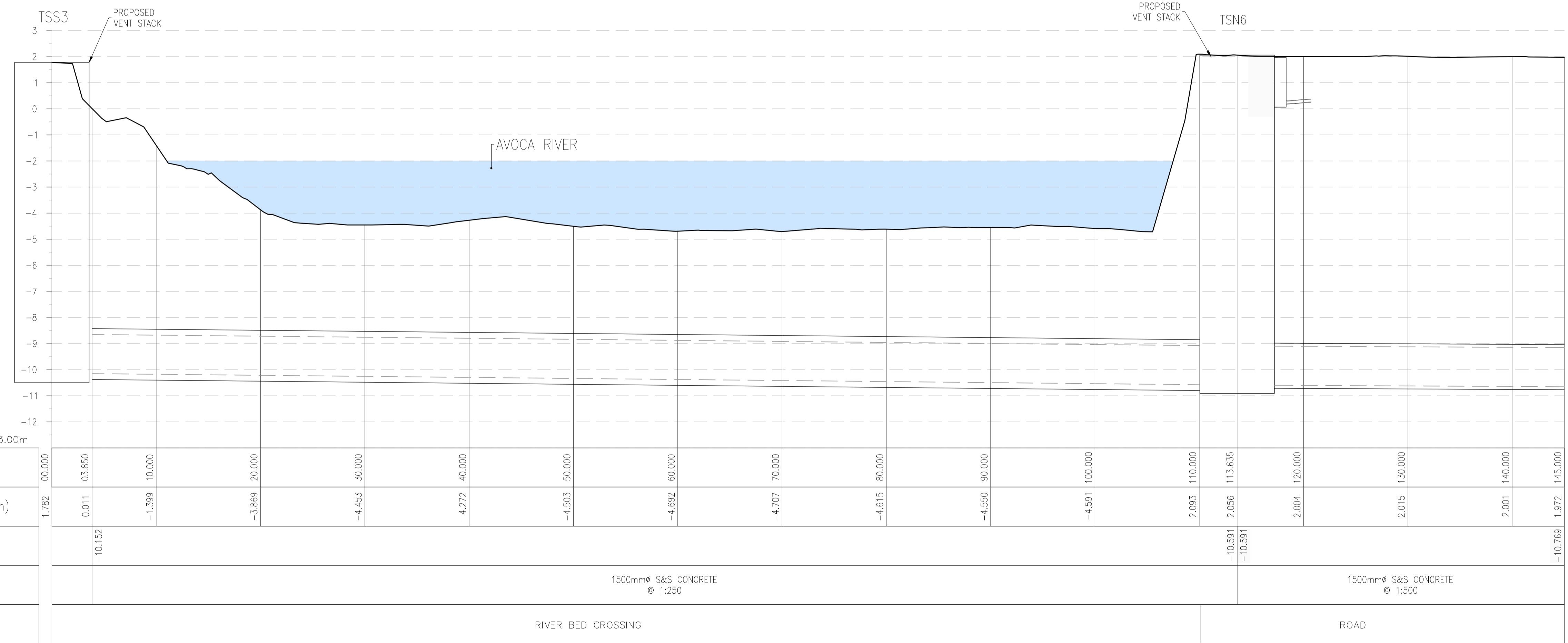


- LEGEND**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

**NOTES:**

- FOR VENT STACK DETAILS REFER TO DRG. No. C-IS-706.

LOCATION PLAN  
SCALE: 1:250 @ A1

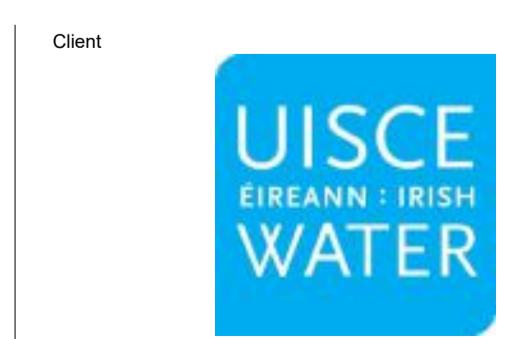


SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Client  
**UISCE ÉIREANN : IRISH WATER**

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
AS SHOWN

Discipline  
CIVIL



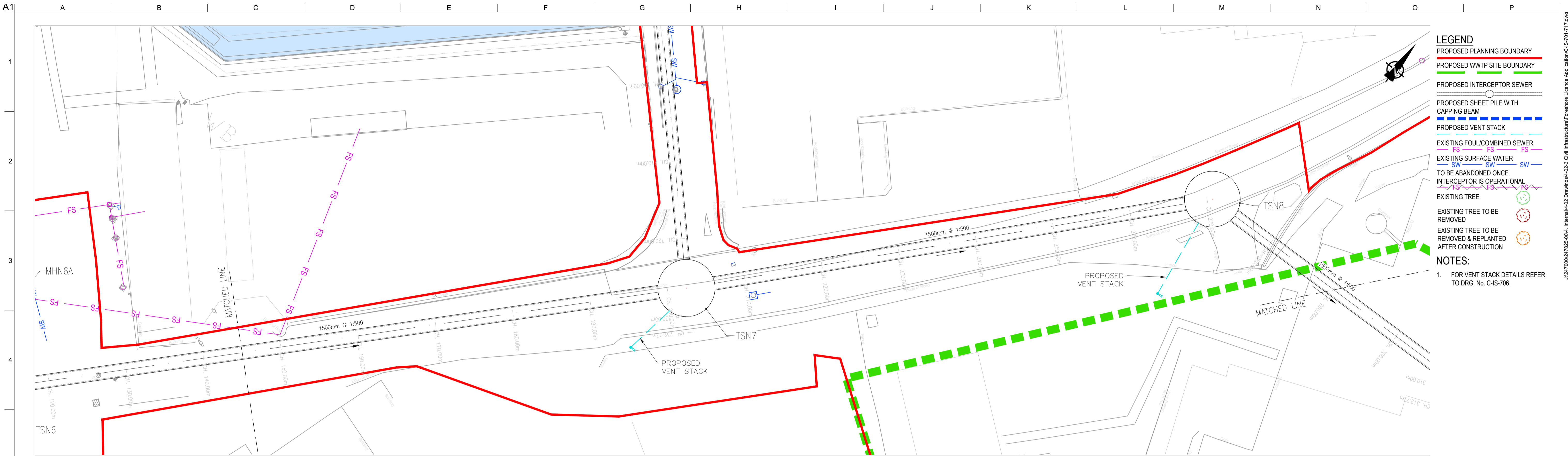
Drawing Title  
**LAYOUT PLAN & LONGITUDINAL SECTION 9 OF 16**

Drawing Status  
**FORESHORE CONSENT**

Job No  
247825-00

Drawing No  
C-IS-709

Issue  
I01



LOCATION PLAN  
SCALE: 1:250 @ A1



SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17



Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
(Foreshore Consent Application)

Scale at A1  
AS SHOWN

Discipline  
CIVIL

CLANCY MOORE ARCHITECTS

Drawing Title  
**LAYOUT PLAN & LONGITUDINAL SECTION**  
10 OF 16

Drawing Status  
**FORESHORE CONSENT**

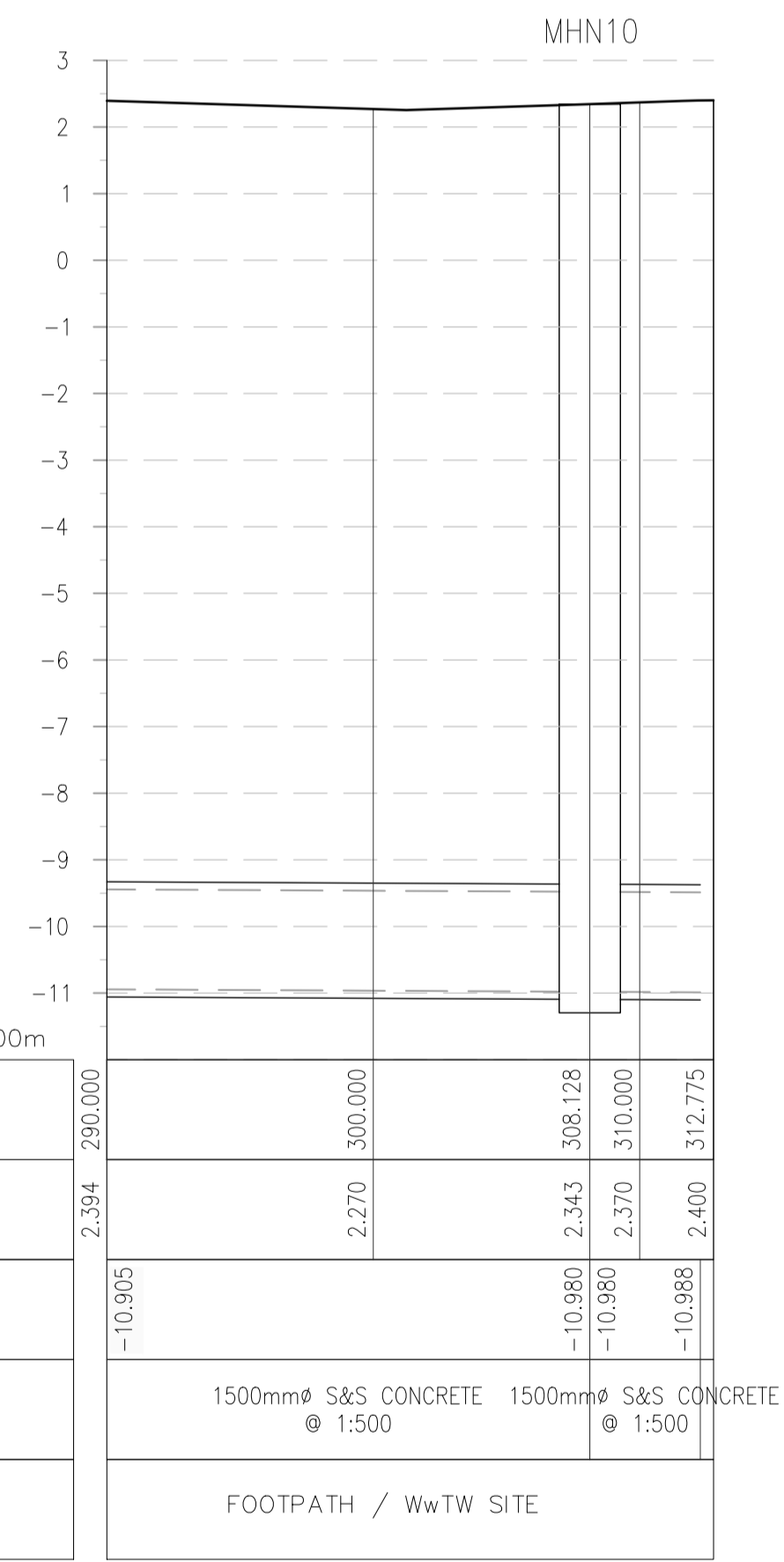
Job No  
247825-00

Drawing No  
C-IS-710

Issue  
I01



LOCATION PLAN  
SCALE: 1:250 @ A1

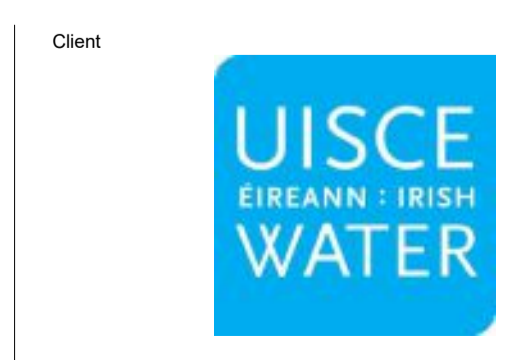


SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Client  
**UISCE ÉIREANN: IRISH WATER**

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
AS SHOWN

Discipline  
CIVIL

ARUP BYRNELOOBY

CLANCY MOORE ARCHITECTS

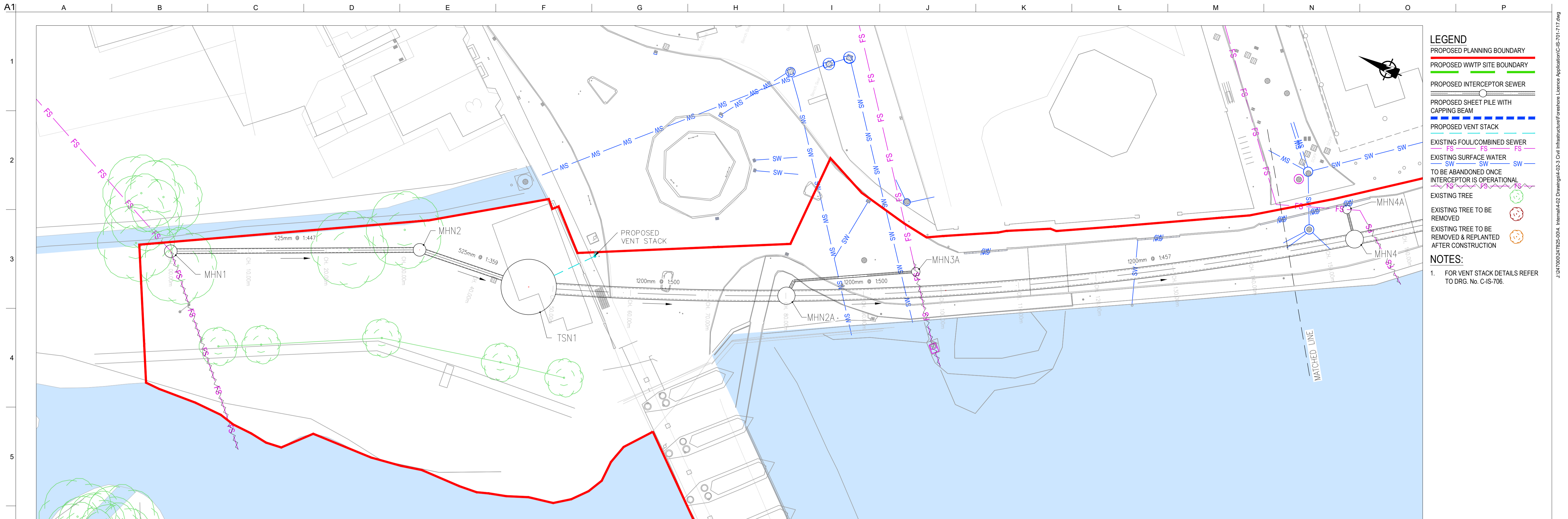
Drawing Title  
**LAYOUT PLAN & LONGITUDINAL SECTION 11 OF 16**

Drawing Status  
**FORESHORE CONSENT**

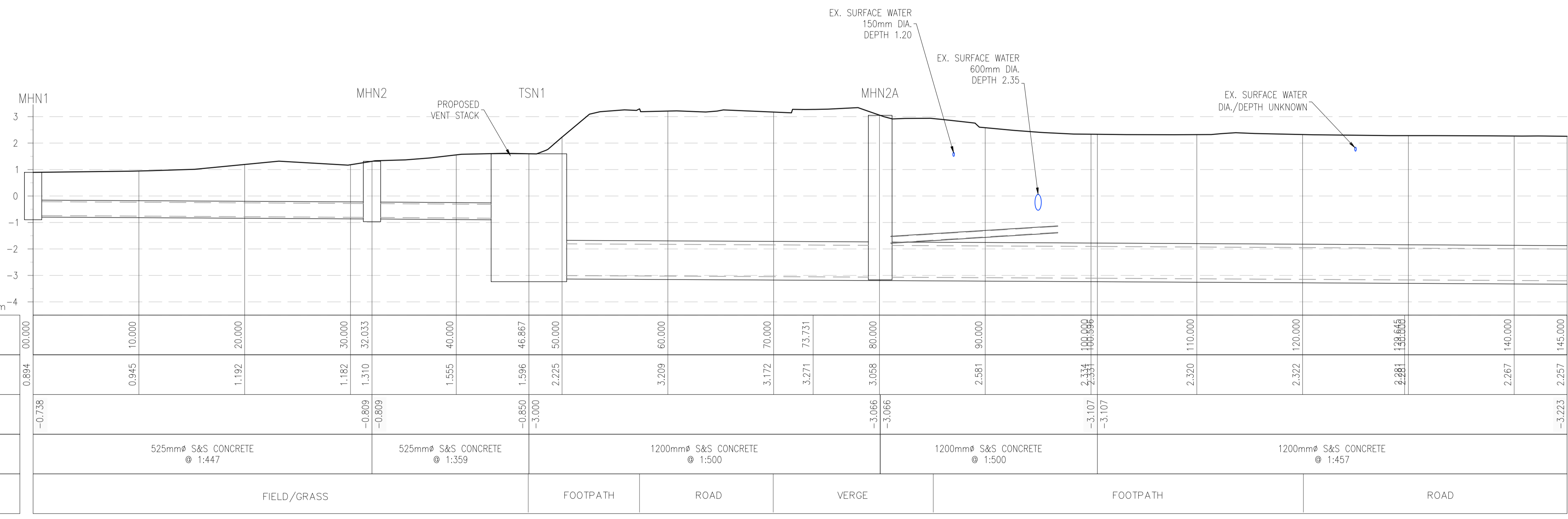
Job No  
247825-00

Drawing No  
C-IS-711

Issue  
**I01**



LOCATION PLAN  
SCALE: 1:250 @ A1



SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17



Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1 AS SHOWN

Discipline CIVIL

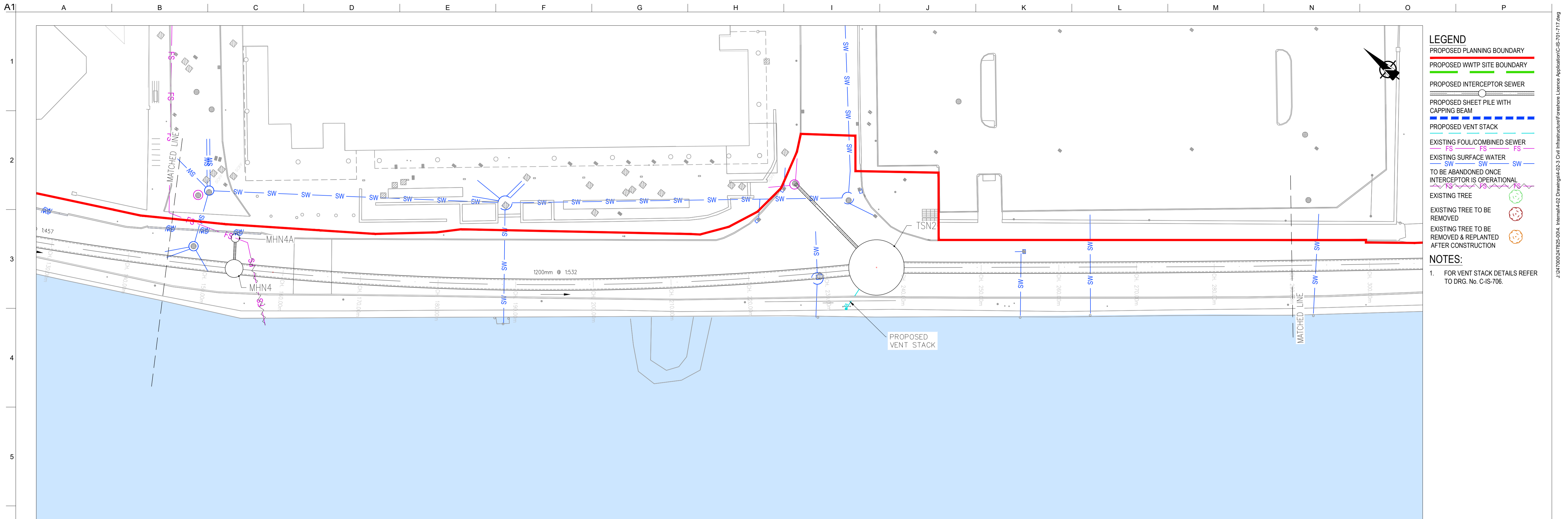
CLANCY MOORE ARCHITECTS

Drawing Title  
**LAYOUT PLAN & LONGITUDINAL SECTION 12 OF 16**

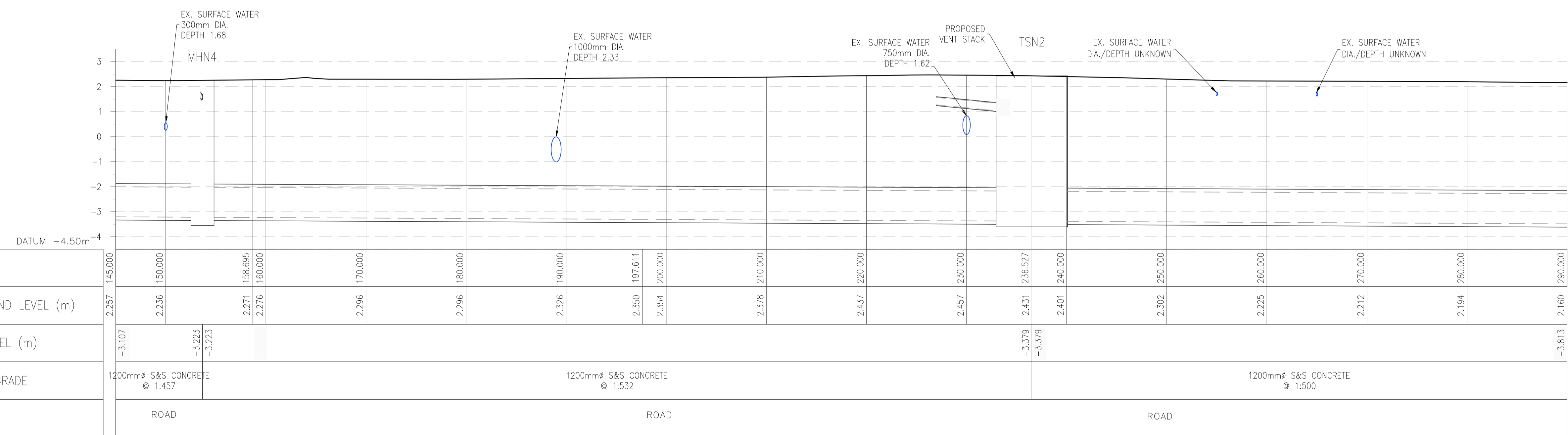
Drawing Status  
**FORESHORE CONSENT**

Job No 247825-00 Drawing No C-IS-712 Issue I01





LOCATION PLAN  
SCALE: 1:250 @ A1

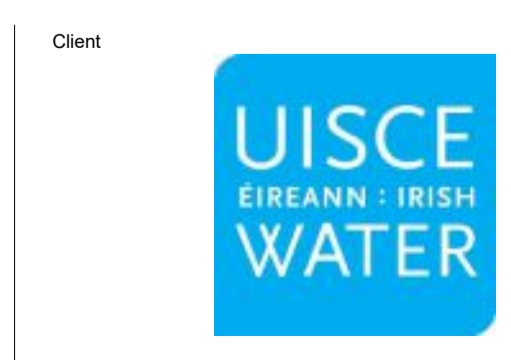


SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
(Foresore Consent Application)

Scale at A1  
AS SHOWN

Discipline  
CIVIL

**ARUP BYRNE LOOBY**

**CLANCY MOORE ARCHITECTS**

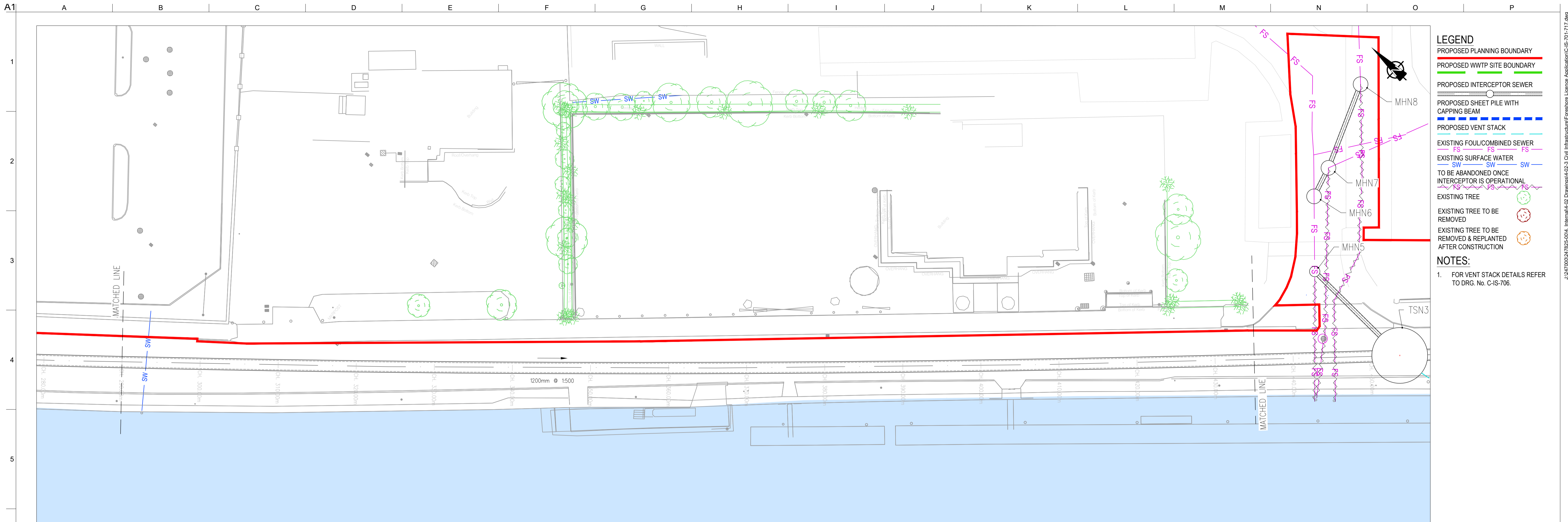
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**LAYOUT PLAN & LONGITUDINAL SECTION**  
13 OF 16

Drawing Status  
**FORESORE CONSENT**

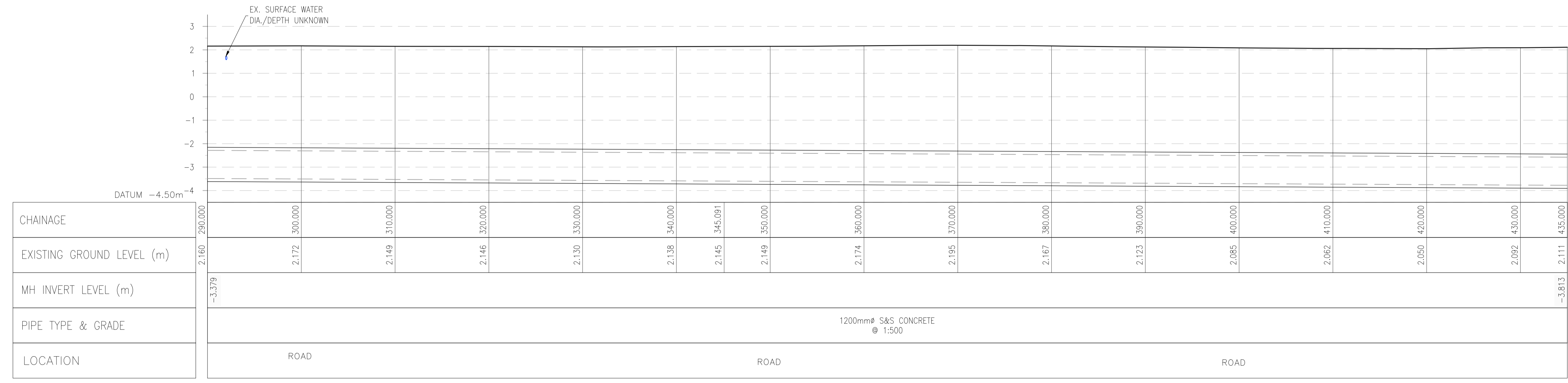
Job No  
247825-00

Drawing No  
C-IS-713

Issue  
**I01**



LOCATION PLAN  
SCALE: 1:250 @ A1



SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17



ID1	19/02/19	MS	DR	ES
Issue	Date	By	Chkd	Appd

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
(Foreshore Consent Application)

Scale at A1  
AS SHOWN

Discipline  
CIVIL

CLANCY MOORE ARCHITECTS

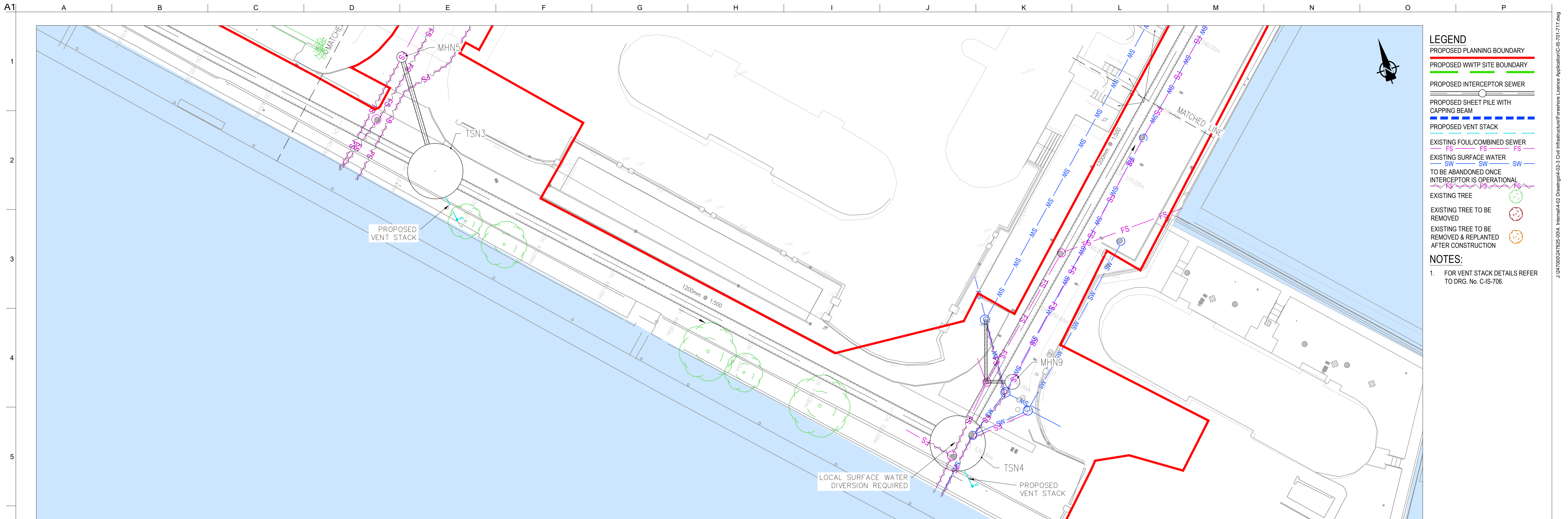
Drawing Title  
**LAYOUT PLAN & LONGITUDINAL SECTION**  
14 OF 16

Drawing Status  
**FORESHORE CONSENT**

Job No  
247825-00

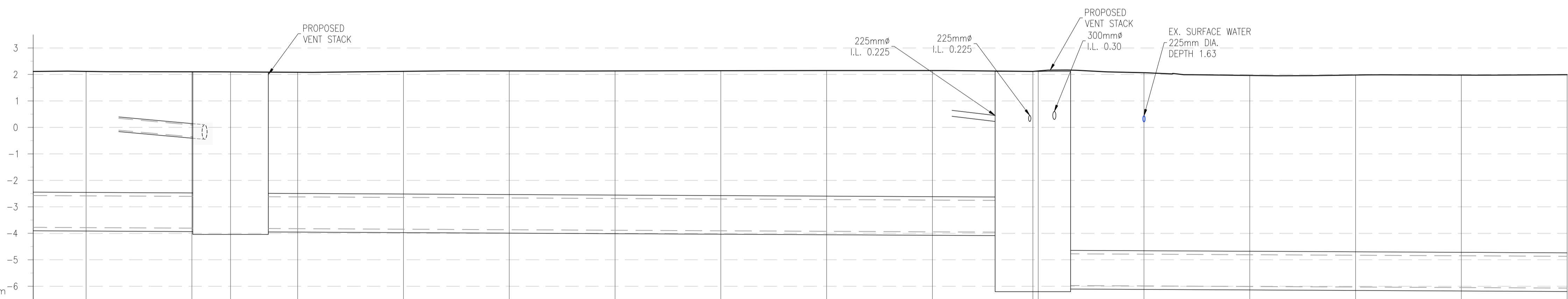
Drawing No  
C-IS-714

Issue  
I01



- LEGEND**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION
- NOTES:**
- FOR VENT STACK DETAILS REFER TO DRG. No. C-IS-706.

LOCATION PLAN  
SCALE: 1:250 © A1



CHAINAGE	435.000	440.000	450.000	453.654	460.000	470.000	480.000	490.000	500.000	510.000	520.000	528.498	532.000	540.000	550.000	560.000	570.000	580.000		
EXISTING GROUND LEVEL (m)	2.111	2.115	2.099	2.096	2.081	2.116	2.133	2.132	2.142	2.146	2.146	2.115	2.132	2.066	1.962	1.978	1.975	1.989		
MH INVERT LEVEL (m)	-3.379			-3.813	-3.813							-3.965	-5.968					-6.139		
PIPE TYPE & GRADE	1200mm S&S CONCRETE @ 1:500						1200mm S&S CONCRETE @ 1:500								1200mm S&S CONCRETE @ 1:500					
LOCATION	ROAD								ROAD								ROAD			

SCALE: H 1:250, V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17



Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
AS SHOWN

Discipline  
CIVIL

CLANCY MOORE ARCHITECTS

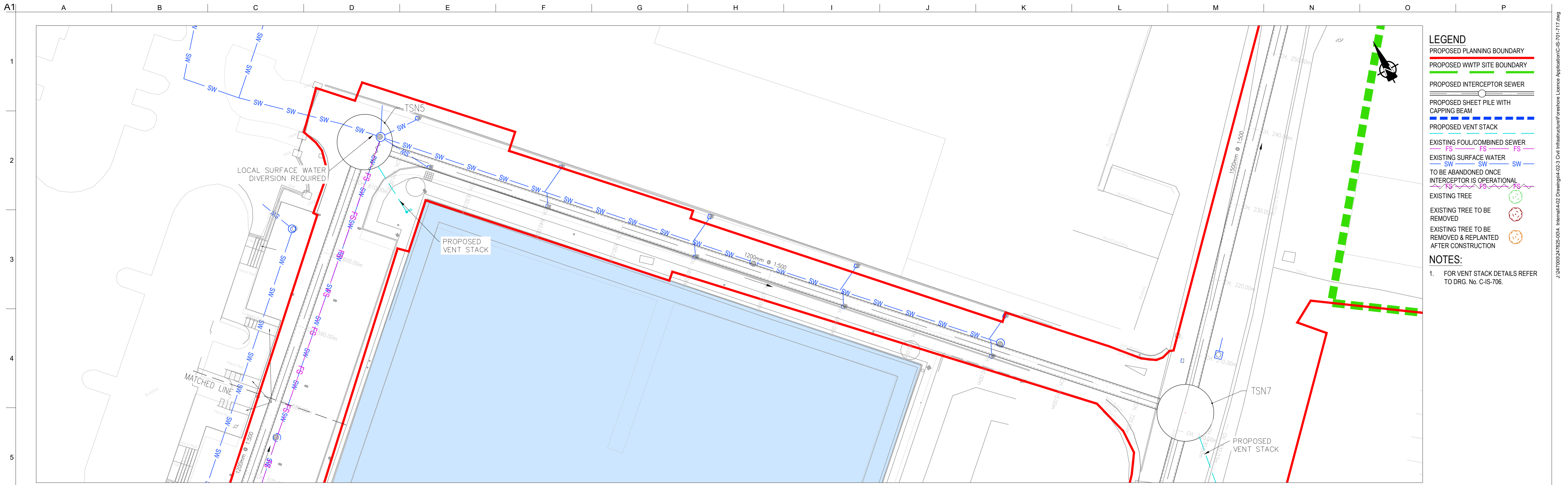
Drawing Title  
**LAYOUT PLAN & LONGITUDINAL SECTION 15 OF 16**

Drawing Status  
**FORESHORE CONSENT**

Job No  
247825-00

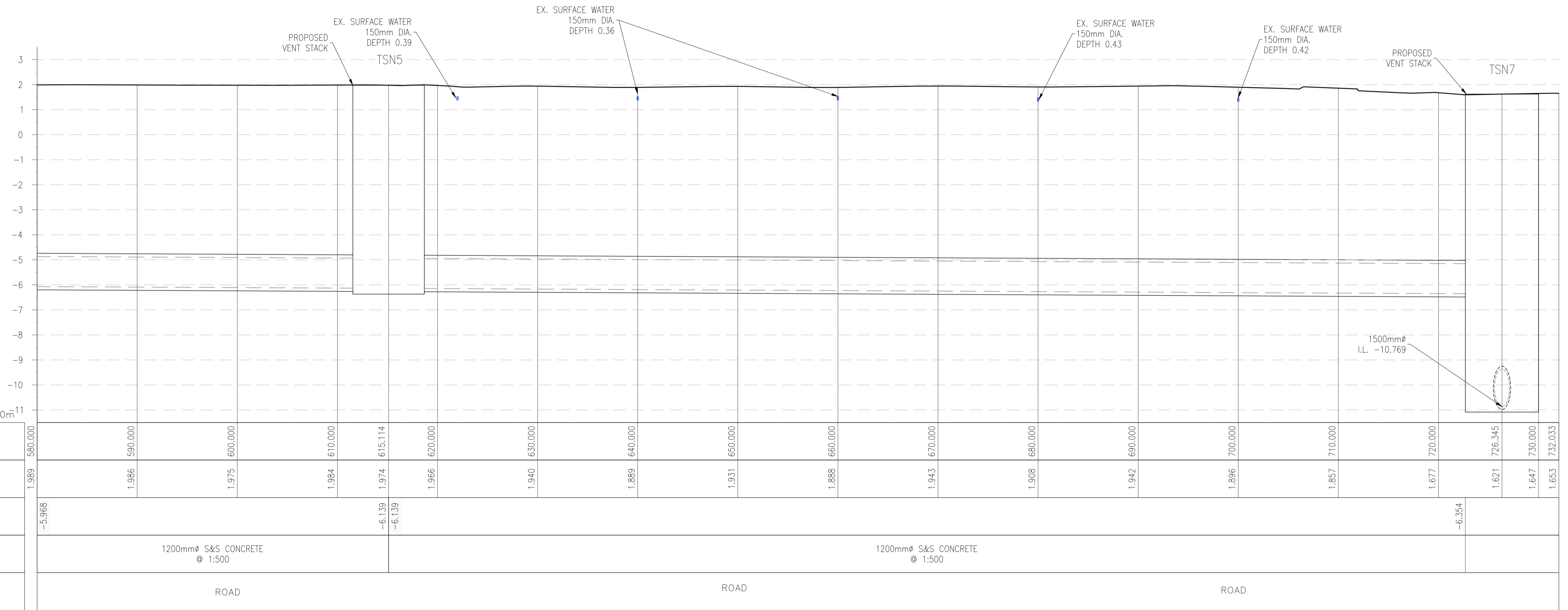
Drawing No  
C-IS-715

Issue  
I01



- LEGEND**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION
- NOTES:**
- FOR VENT STACK DETAILS REFER TO DRG. No. C-IS-706.

LOCATION PLAN  
SCALE: 1:250 @ A1



CHAINAGE	EXISTING GROUND LEVEL (m)	MH INVERT LEVEL (m)	PIPE TYPE & GRADE	LOCATION
1,989	580.000	-5.968		
1,986	590.000		1200mm S&S CONCRETE @ 1:500	ROAD
1,975	600.000			
1,984	610.000			
1,974	615.114	-6.139		
1,986	620.000	-6.139		
1,940	630.000			
1,889	640.000			
1,931	650.000			
1,888	660.000		1200mm S&S CONCRETE @ 1:500	ROAD
1,943	670.000			
1,908	680.000			
1,942	690.000			
1,896	700.000			
1,857	710.000			
1,677	720.000	-6.354		
1,621	726.345			
1,647	730.000			
1,653	732.033			

SCALE: H 1:250, V 1:100.

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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
AS SHOWN

Discipline  
CIVIL

CLANCY MOORE ARCHITECTS

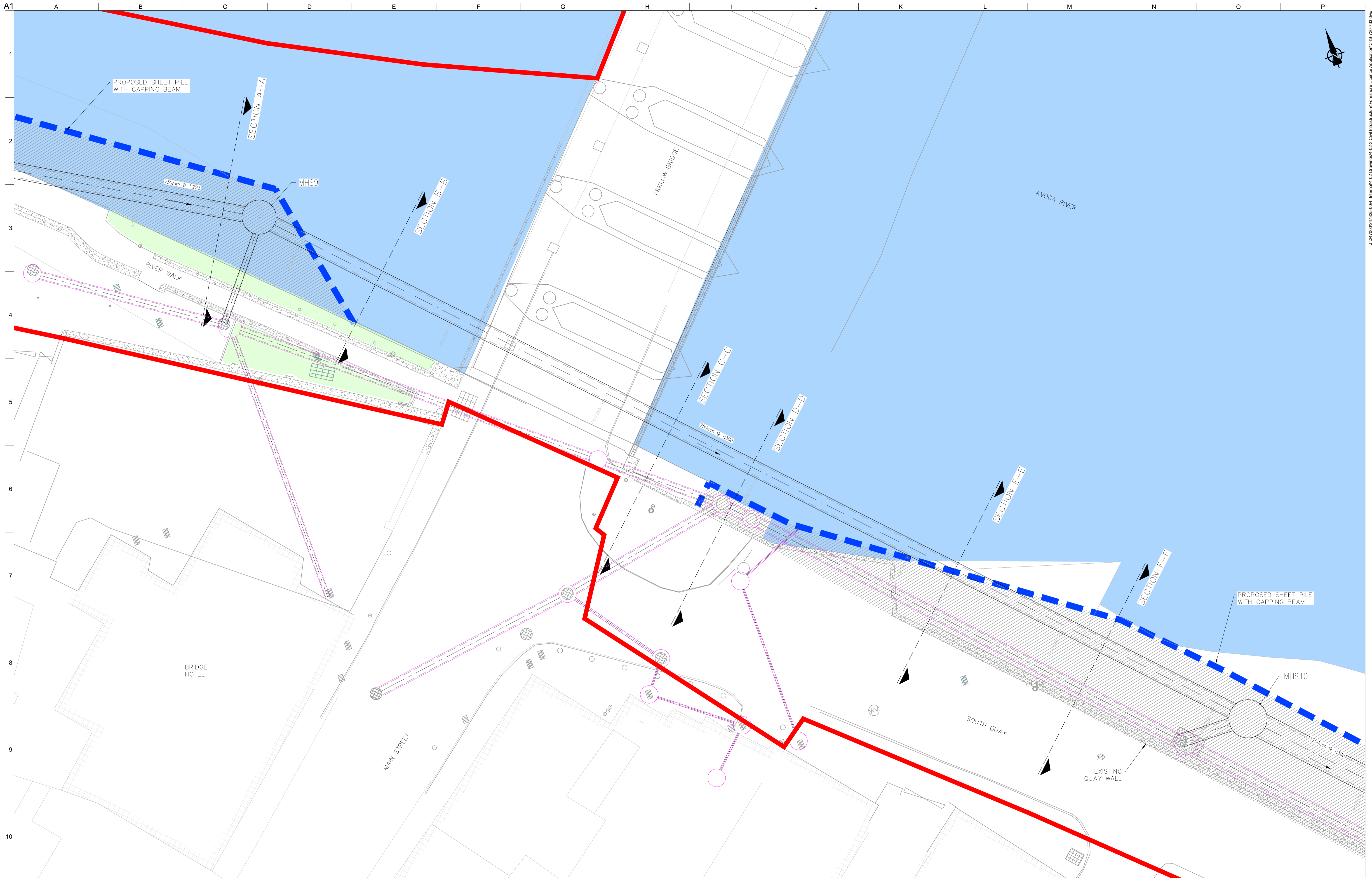
Drawing Title  
**LAYOUT PLAN & LONGITUDINAL SECTION 16 OF 16**

Drawing Status  
**FORESHORE CONSENT**

Job No  
247825-00

Drawing No  
C-IS-716

Issue  
I01



A1  
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A B C D E F G H I J K L M N O P

**LEGEND**

- PROPOSED PLANNING BOUNDARY
- PROPOSED INTERCEPTOR SEWER
- PROPOSED SHEET PILE WITH CAPPING BEAM
- RECLAIMED LAND

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OSi Sheet numbers:  
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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foreshore Consent Application)

Scale at A1 AS SHOWN

Discipline CIVIL

CLANCY MOORE ARCHITECTS

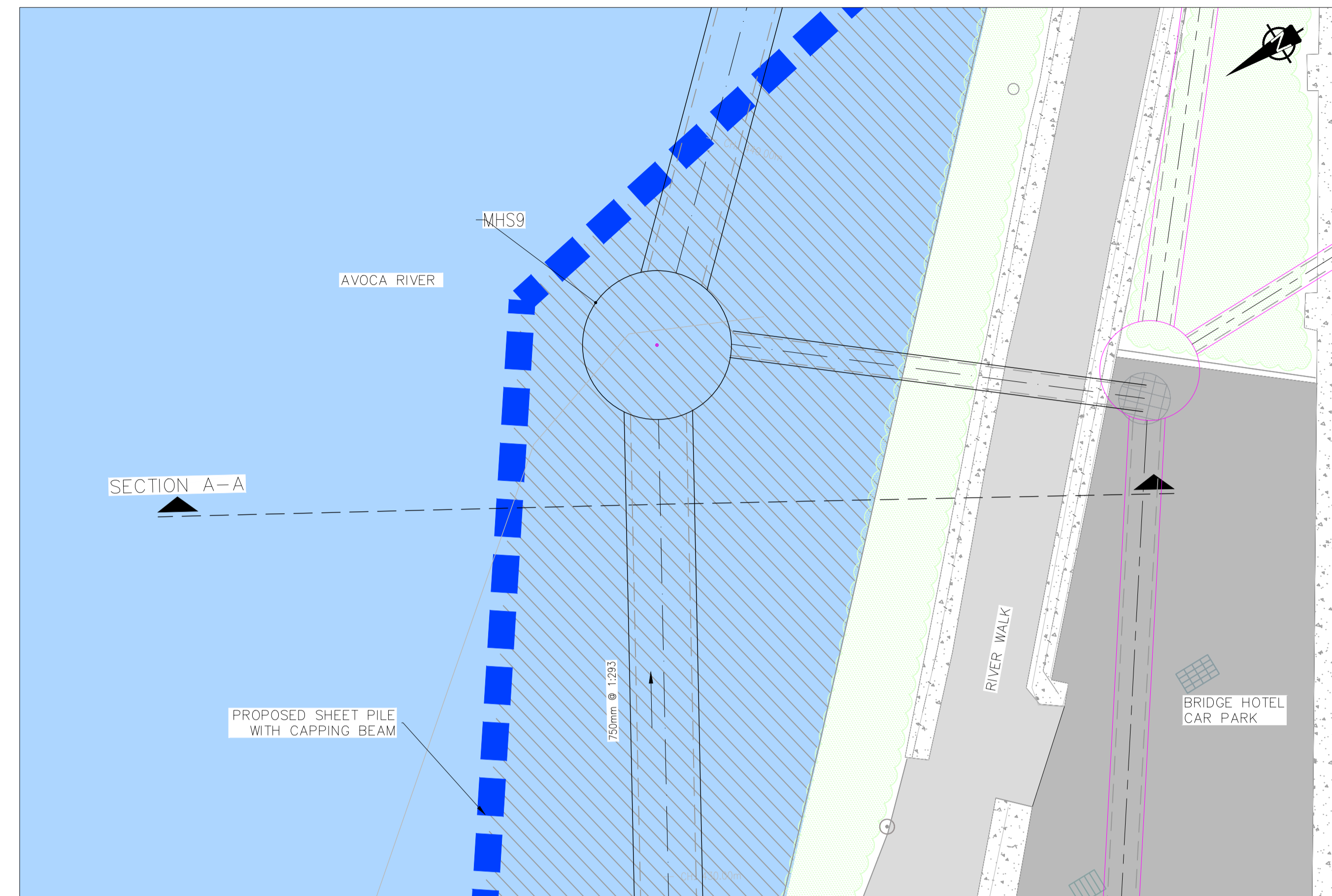
Drawing Title  
**AVOCA RIVER SECTIONS LAYOUT PLAN**  
 1 OF 4

Drawing Status  
**FORESHORE CONSENT**

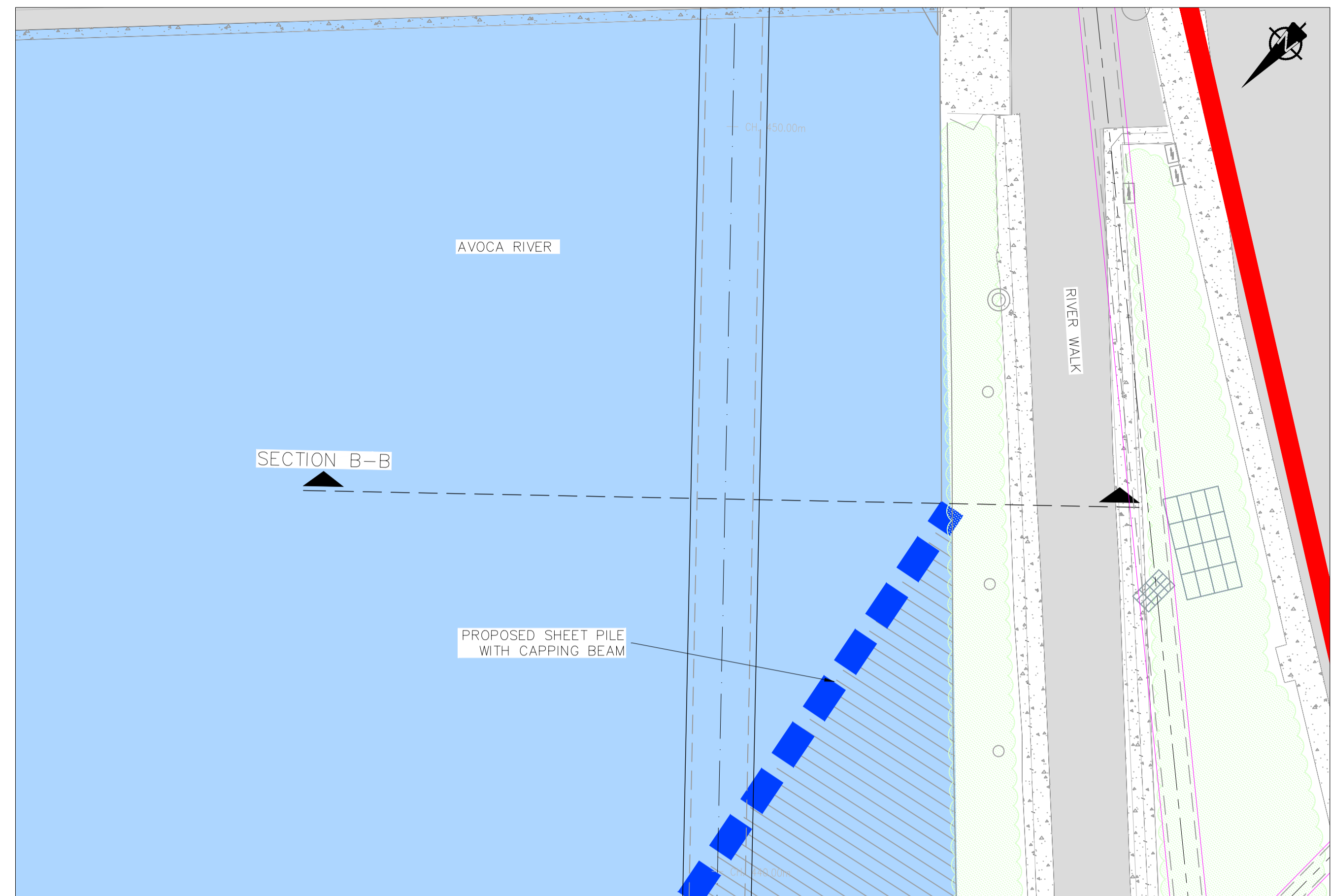
Job No 247825-00 Drawing No C-IS-730 Issue I01

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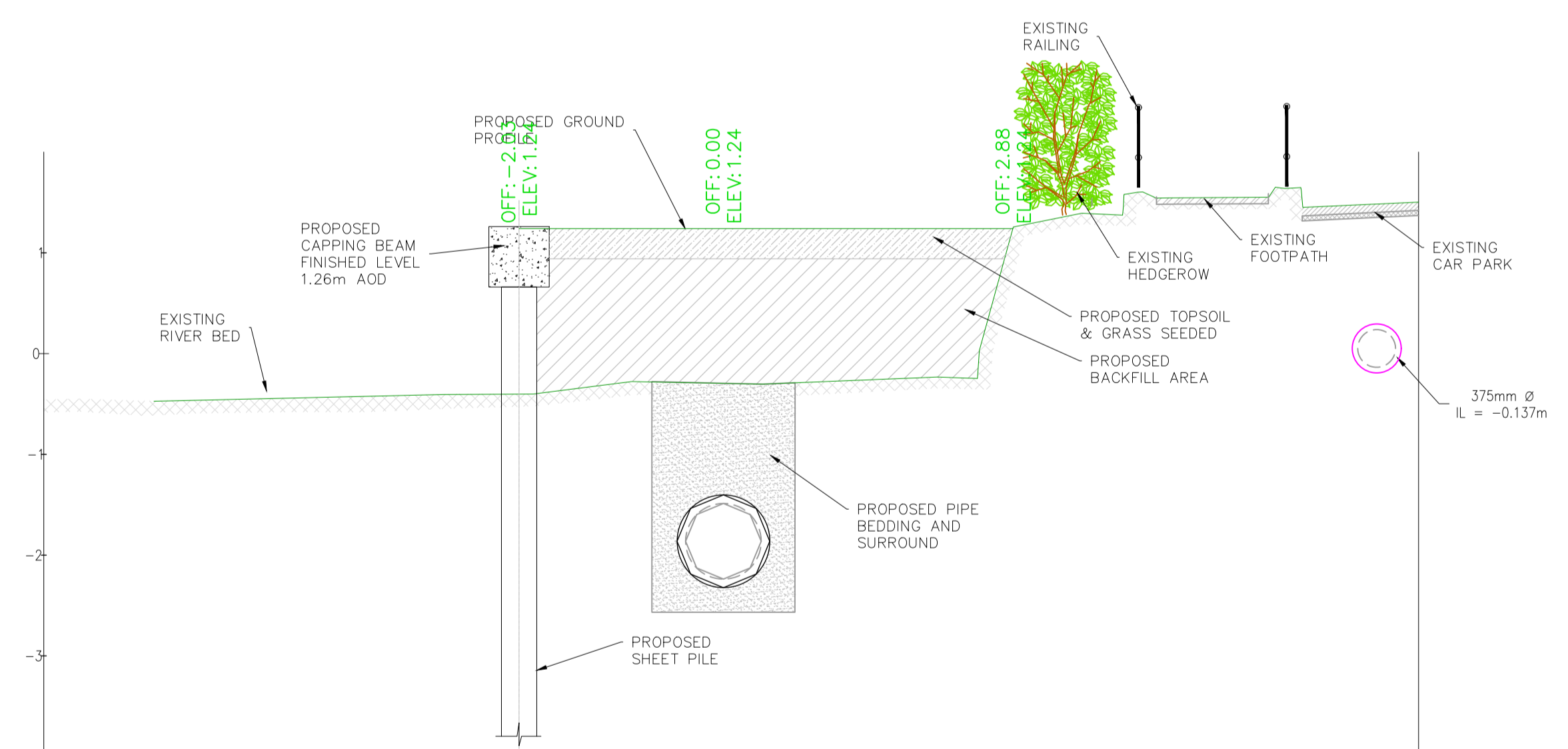
A1  
1  
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10



SECTION A-A - PLAN  
SCALE 1:50

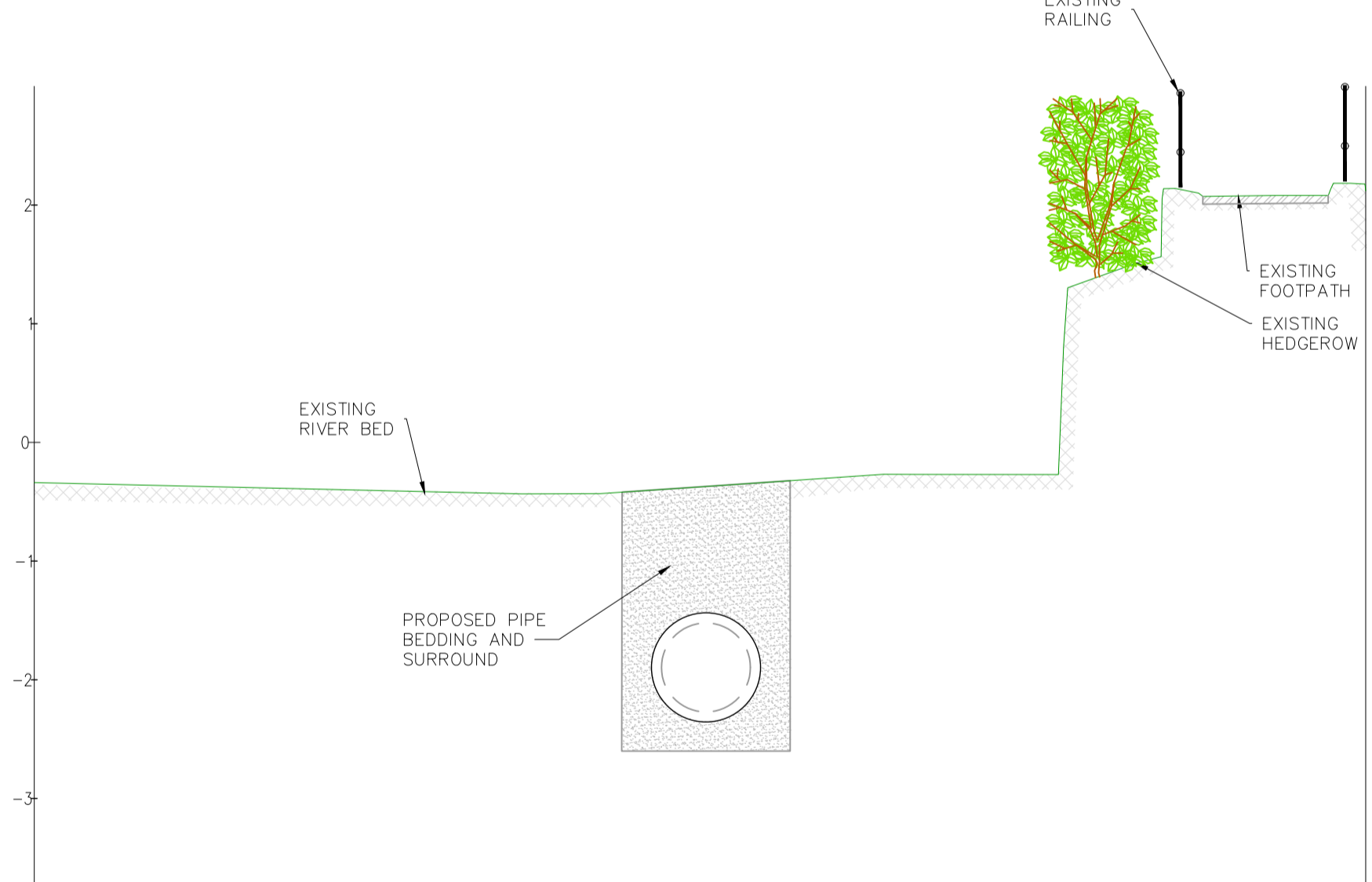


SECTION B-B - PLAN  
SCALE 1:50



OFFSET	-6.75	-6.00	-5.65	-5.00	-4.00	-3.00	-2.00	-1.00	0	1.00	2.00	3.00	4.00	5.00	6.00	6.90	
EXISTING ELEVATIONS		-0.473	-0.458	-0.435	-0.412	-0.403	-0.289	-0.295	-0.279	1.00	-0.238	2.00	1.281	1.582	1.548	1.461	1.502
PROPOSED ELEVATIONS																	

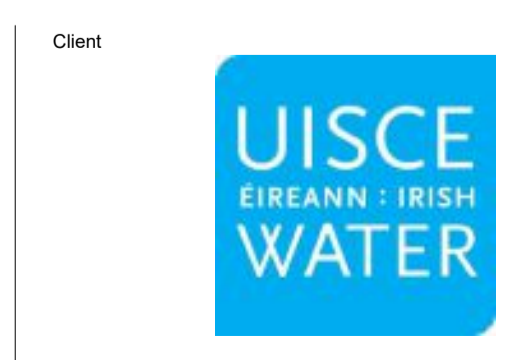
SECTION A-A  
SCALE 1:50



OFFSET	-5.66	-5.00	-4.00	-3.00	-2.00	-1.00	0	1.00	2.00	3.00	4.00	5.00	5.56
EXISTING ELEVATIONS	-0.338	-0.351	-0.377	-0.400	-0.423	-0.432	-0.371	-0.302	-0.270	0.439	2.132	2.081	2.119
PROPOSED ELEVATIONS													

SECTION B-B  
SCALE 1:50

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Client  
**UISCE ÉIREANN: IRISH WATER**

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
AS SHOWN

Discipline  
CIVIL

**ARUP BYRNE LOOBY**

**CLANCY MOORE ARCHITECTS**

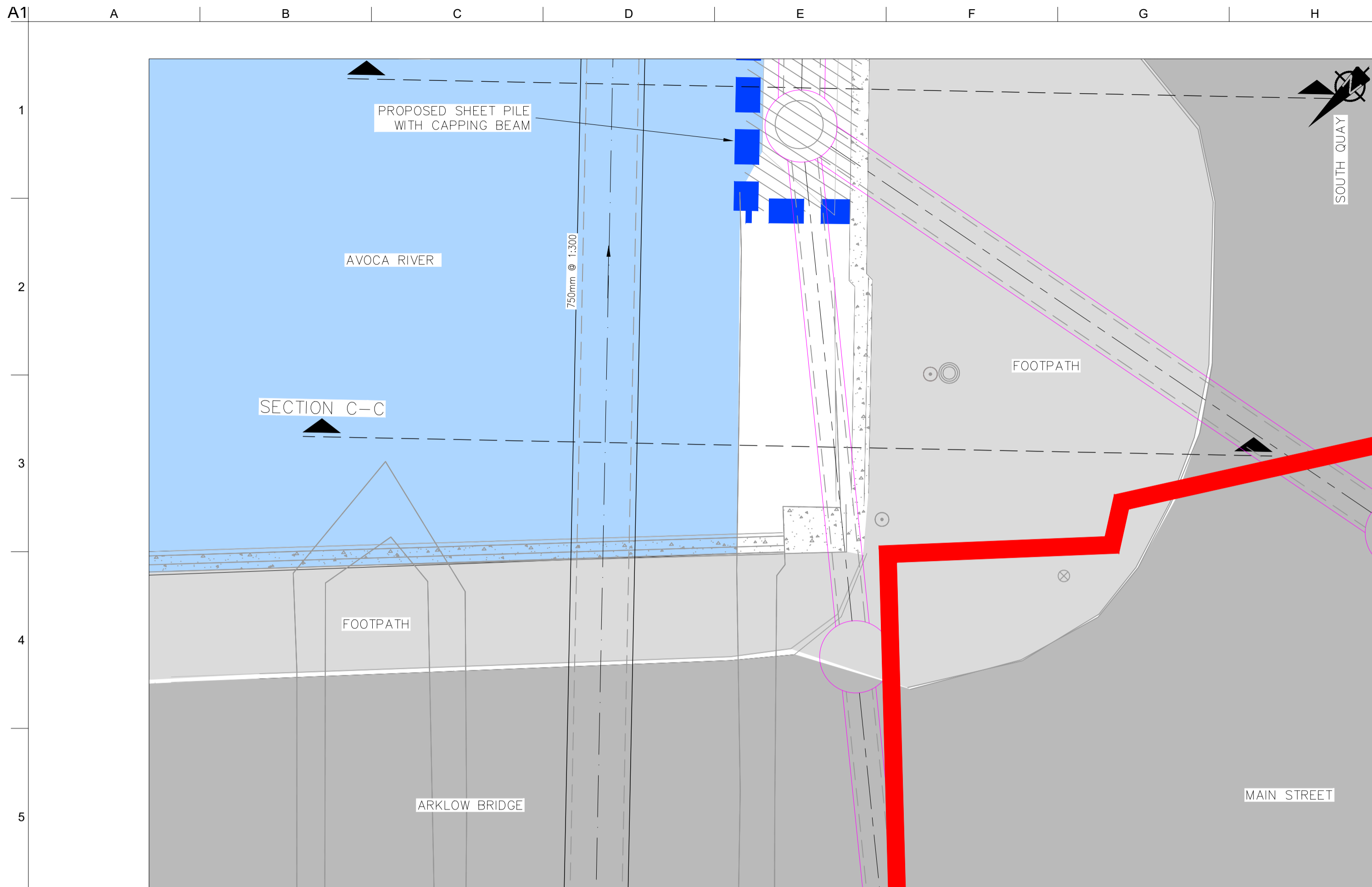
Drawing Title  
**AVOCA RIVER SECTIONS SECTION A-A & B-B 2 OF 4**

Drawing Status  
**FORESHORE CONSENT**

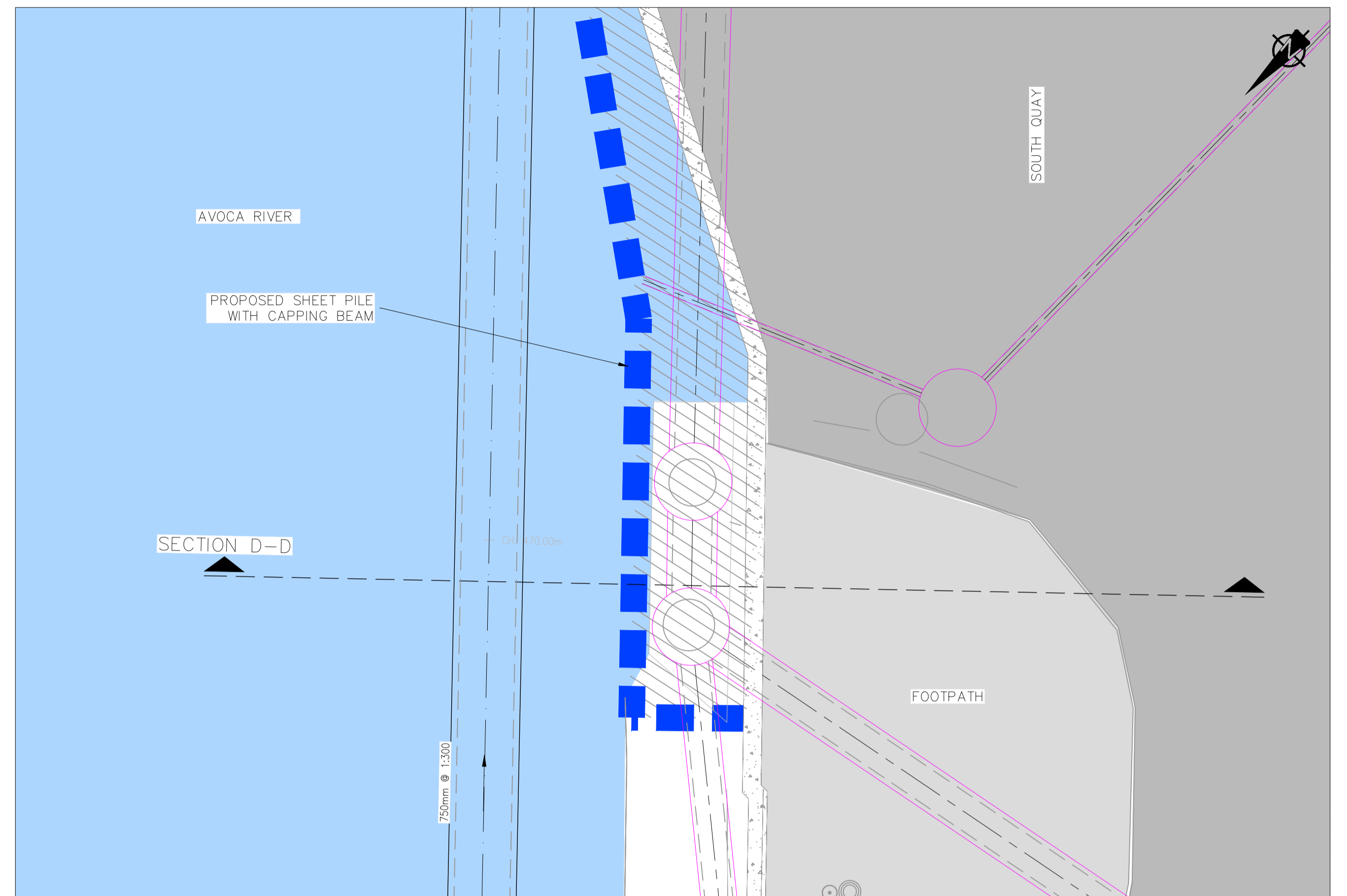
Job No  
247825-00

Drawing No  
C-IS-731

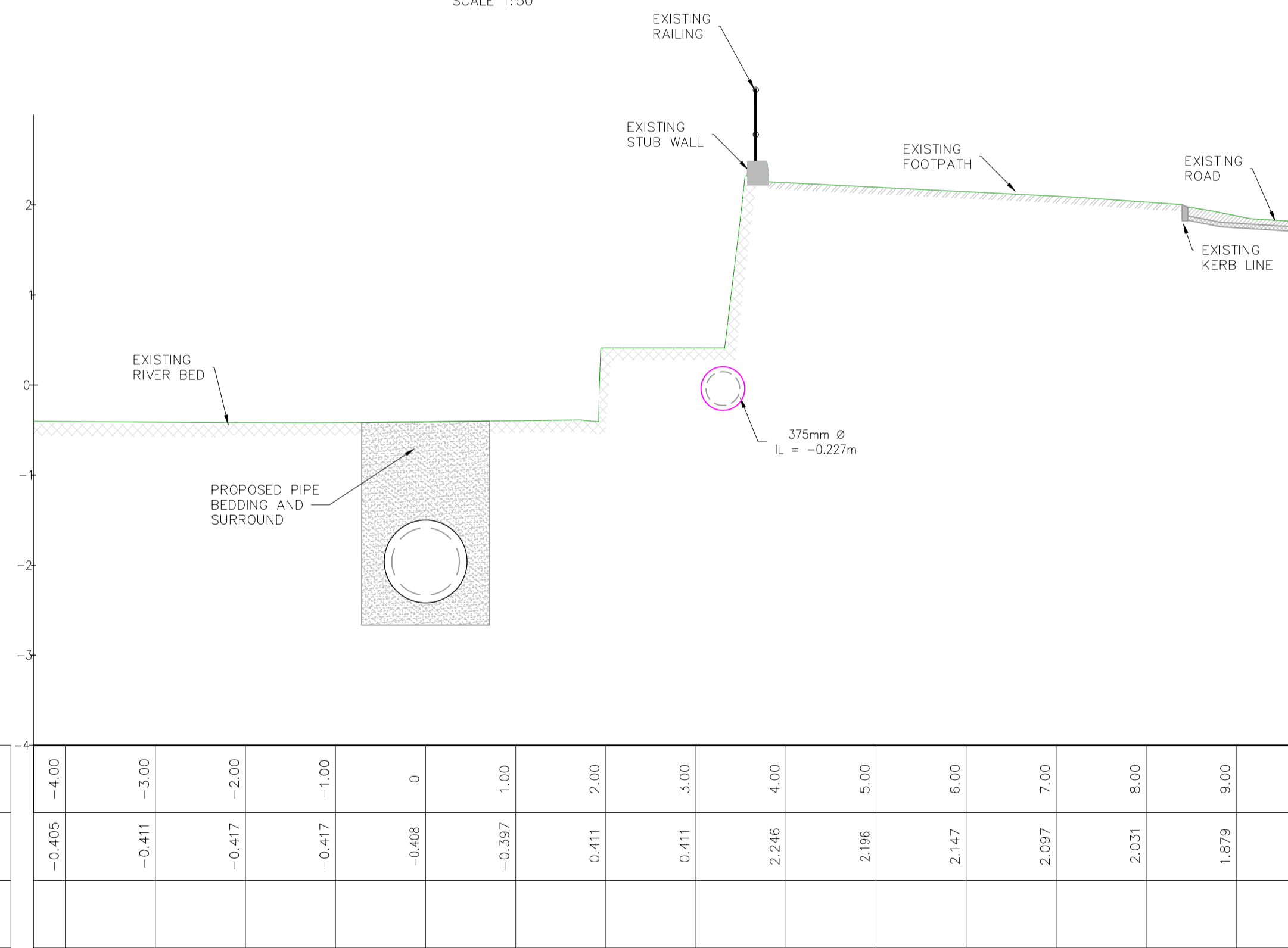
Issue  
**101**



SECTION C-C - PLAN  
SCALE 1:50

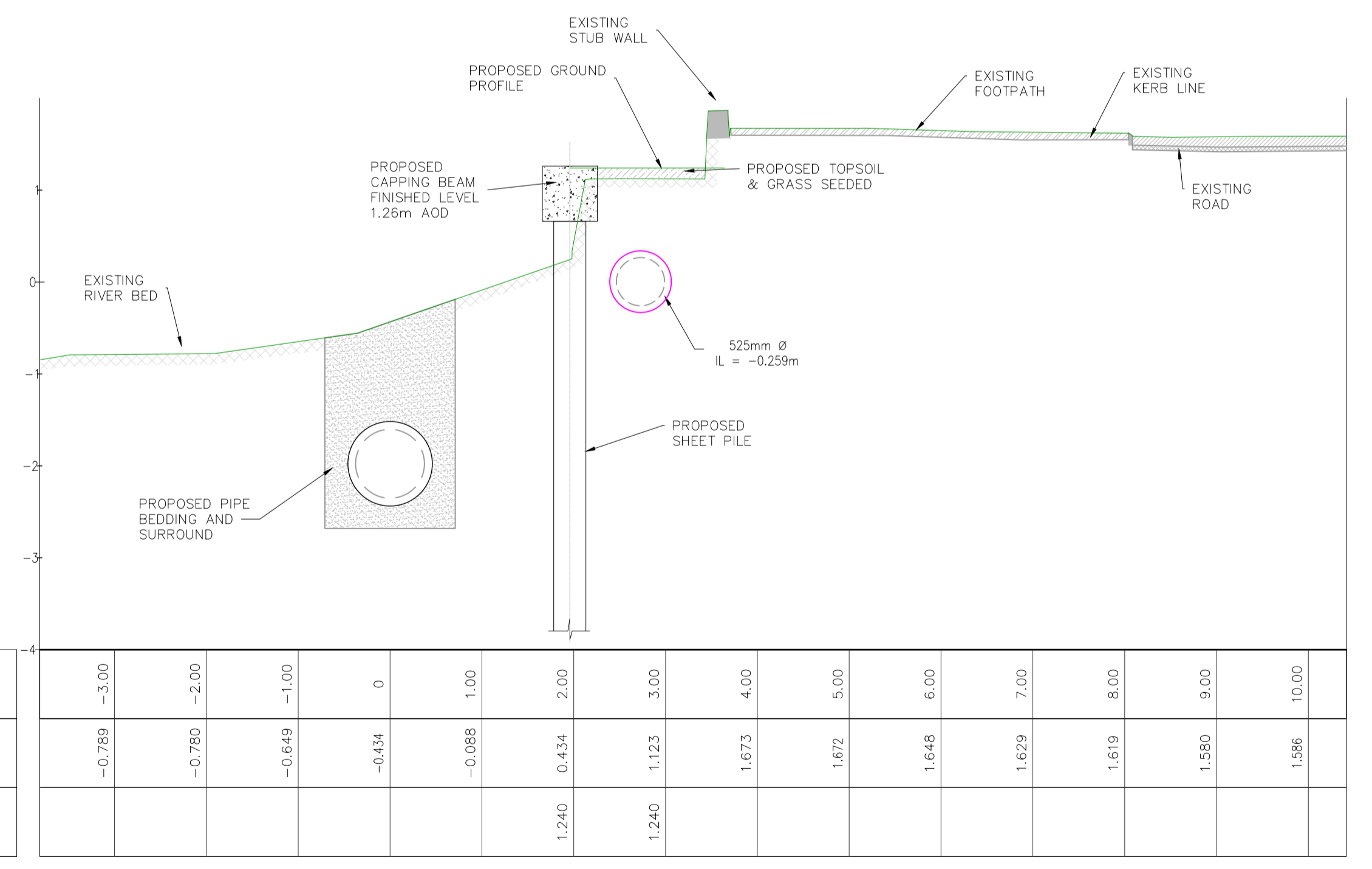


SECTION D-D - PLAN  
SCALE 1:50



SECTION C-C  
SCALE 1:50

OFFSET	-4.00	-3.00	-2.00	-1.00	0	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00
EXISTING ELEVATIONS	-0.405	-0.411	-0.417	-0.417	-0.408	-0.397	0.411	0.411	2.246	2.196	2.147	2.097	2.031	1.879
PROPOSED ELEVATIONS														



SECTION D-D  
SCALE 1:50

OFFSET	-3.00	-2.00	-1.00	0	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00
EXISTING ELEVATIONS	-0.789	-0.780	-0.649	-0.434	-0.088	0.434	1.123	1.673	1.672	1.648	1.629	1.619	1.580	1.586
PROPOSED ELEVATIONS						1.240	1.240							

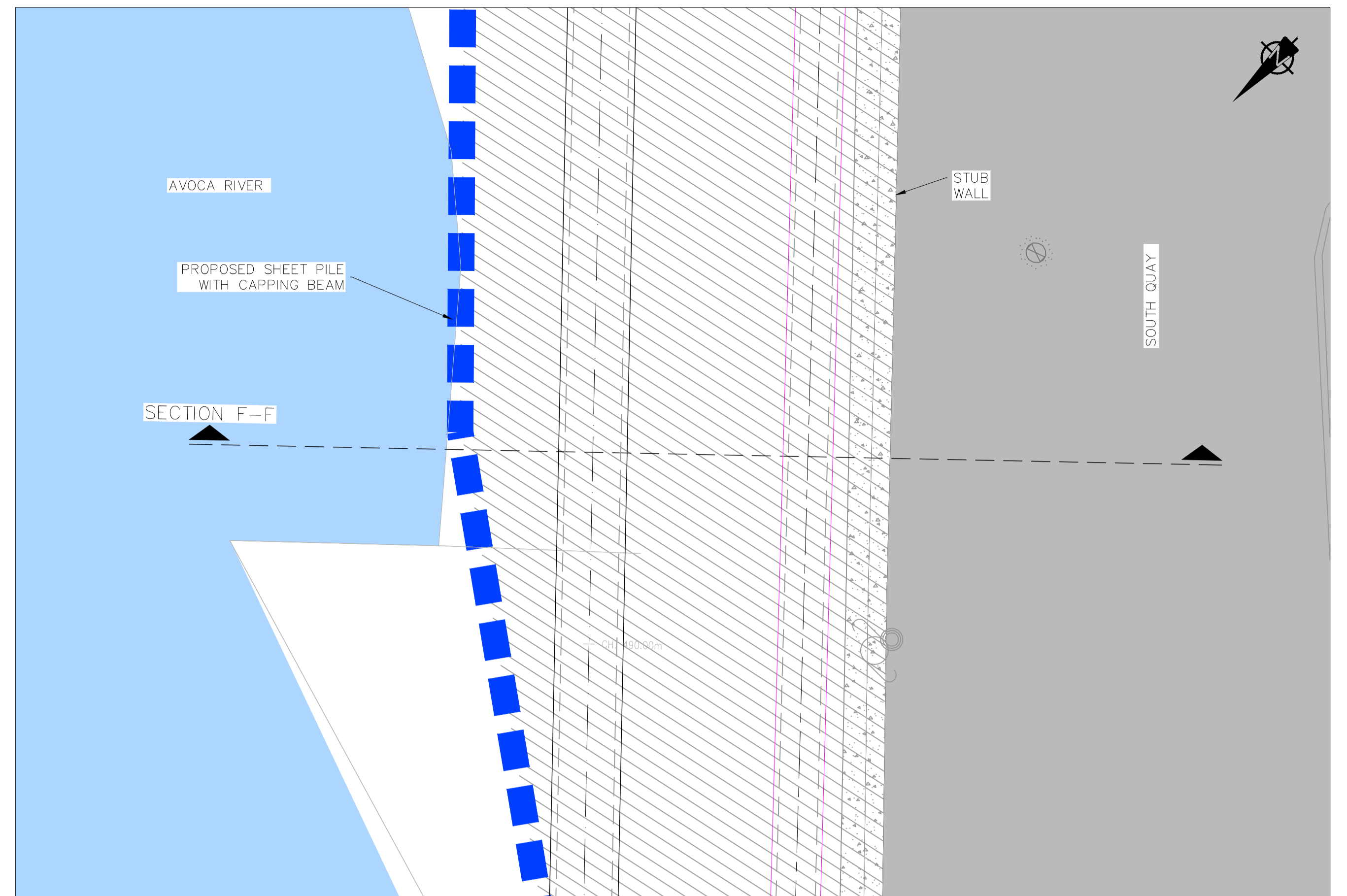
Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Scale at A1	AS SHOWN
Discipline	CIVIL

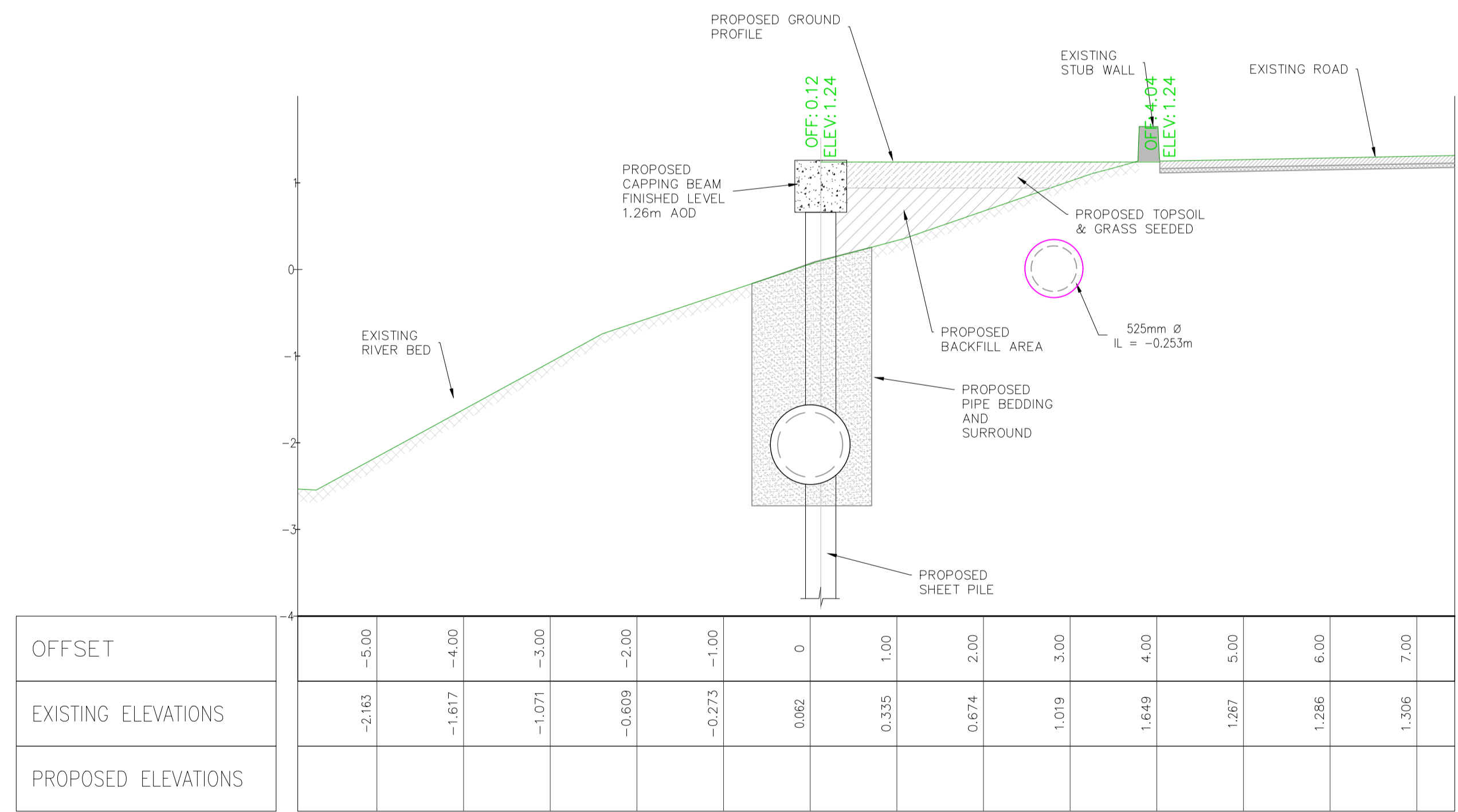
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Job No	247825-00
Drawing No	C-IS-732
Issue	I01



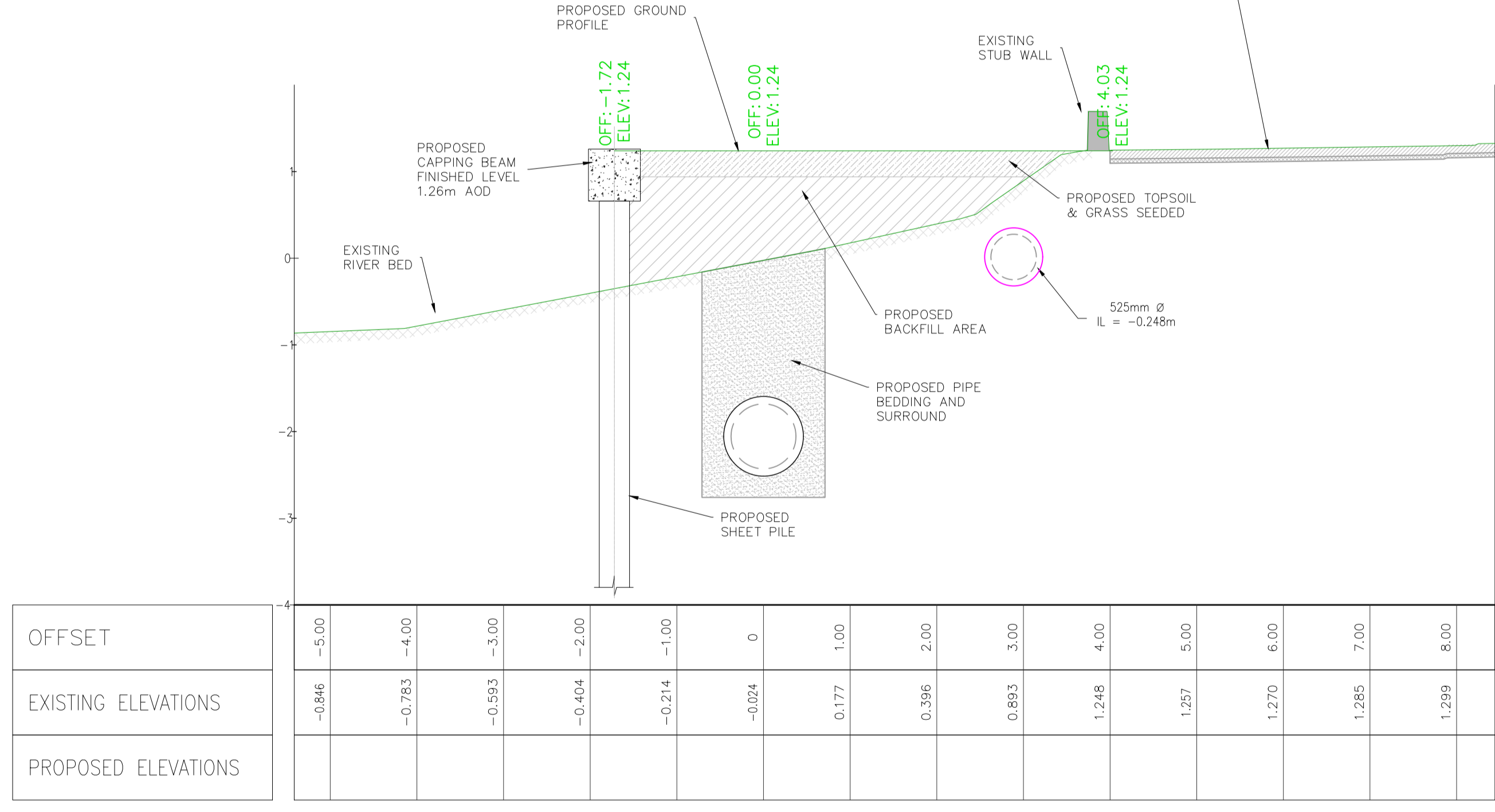
SECTION E-E – PLAN  
SCALE 1:50



SECTION F-F – PLAN  
SCALE 1:50



SECTION E-E  
SCALE 1:50



SECTION F-F  
SCALE 1:50

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Client



Job Title  
ARKLOW WASTEWATER  
TREATMENT PLANT PROJECT  
(Foreshore Consent Application)

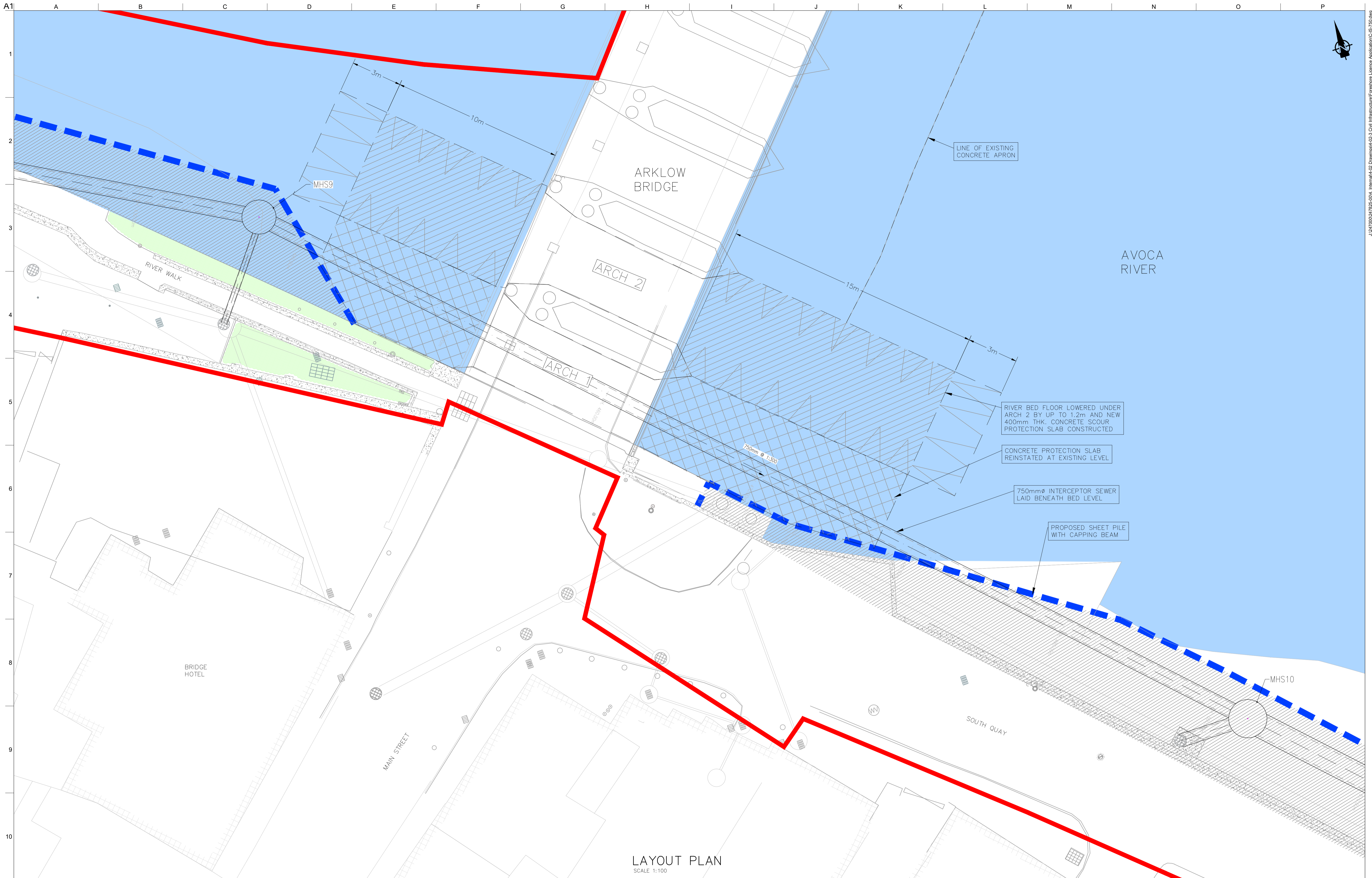
Scale at A1  
AS SHOWN  
Discipline  
CIVIL



Drawing Title  
AVOCA RIVER SECTIONS  
SECTION E-E & F-F  
4 OF 4

Drawing Status  
FORESHORE CONSENT  
Job No  
247825-00  
Drawing No  
C-IS-733  
Issue  
I01





LAYOUT PLAN  
SCALE 1:100

**LEGEND**

PROPOSED PLANNING BOUNDARY	PROTECTION SLAB (LOWER LEVEL)
PROPOSED INTERCEPTOR SEWER	PROTECTION SLAB (EXISTING LEVEL)
PROPOSED SHEET PILE WITH CAPPING BEAM	RECLAIMED LAND

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OSi Sheet numbers:  
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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
(Foreshore Consent Application)

Scale at A1  
AS SHOWN

Discipline  
CIVIL



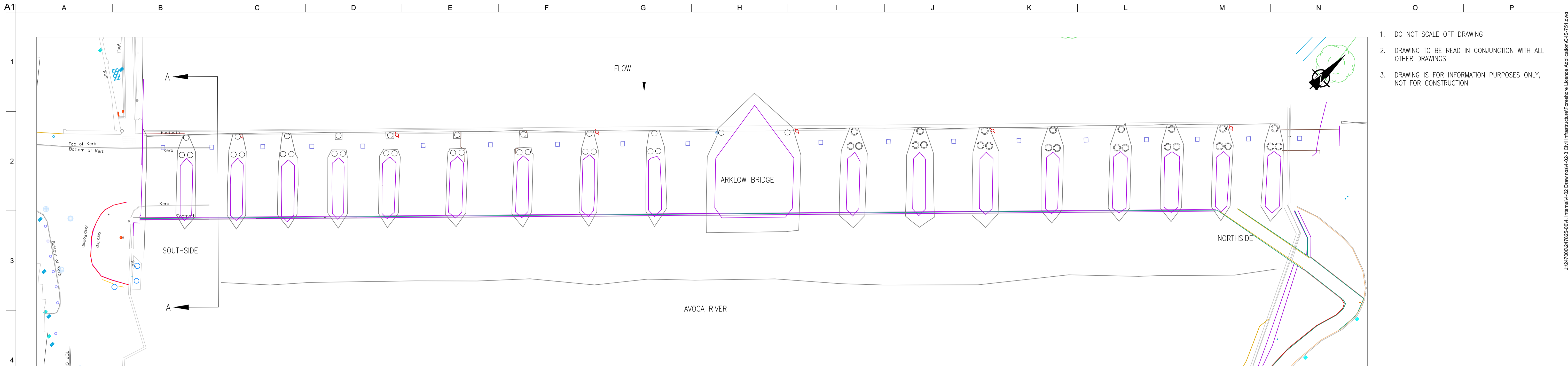
Drawing Title  
**ARKLOW BRIDGE WORKS PLAN**

Drawing Status  
**FORESHORE CONSENT**

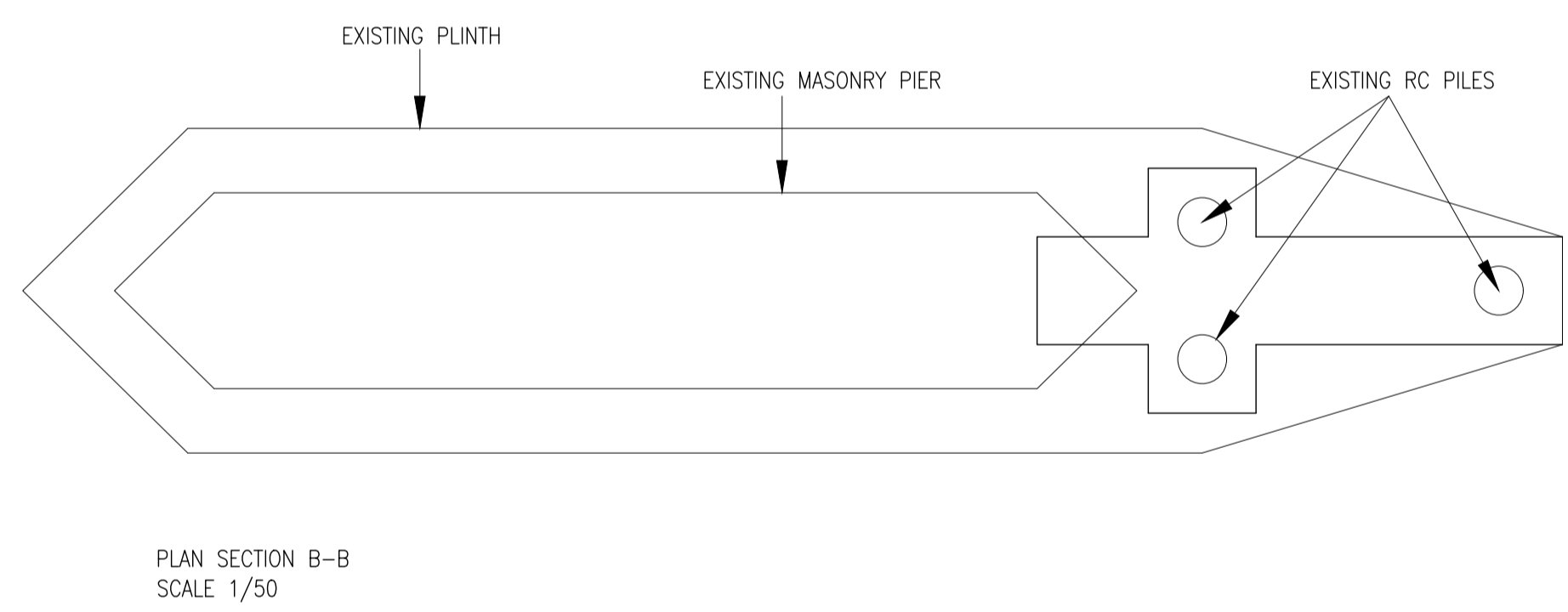
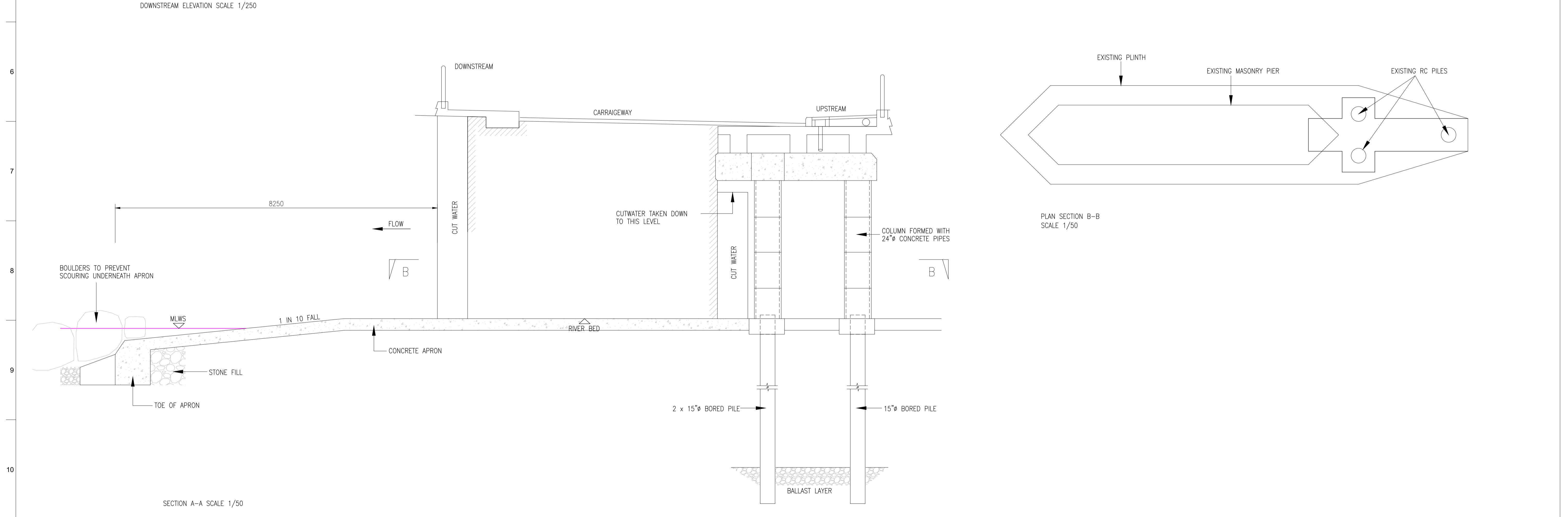
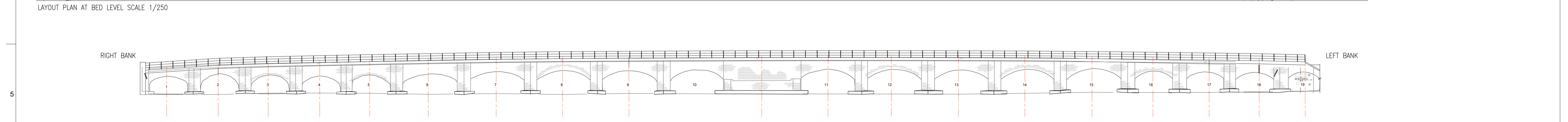
Job No  
247825-00

Drawing No  
C-IS-750

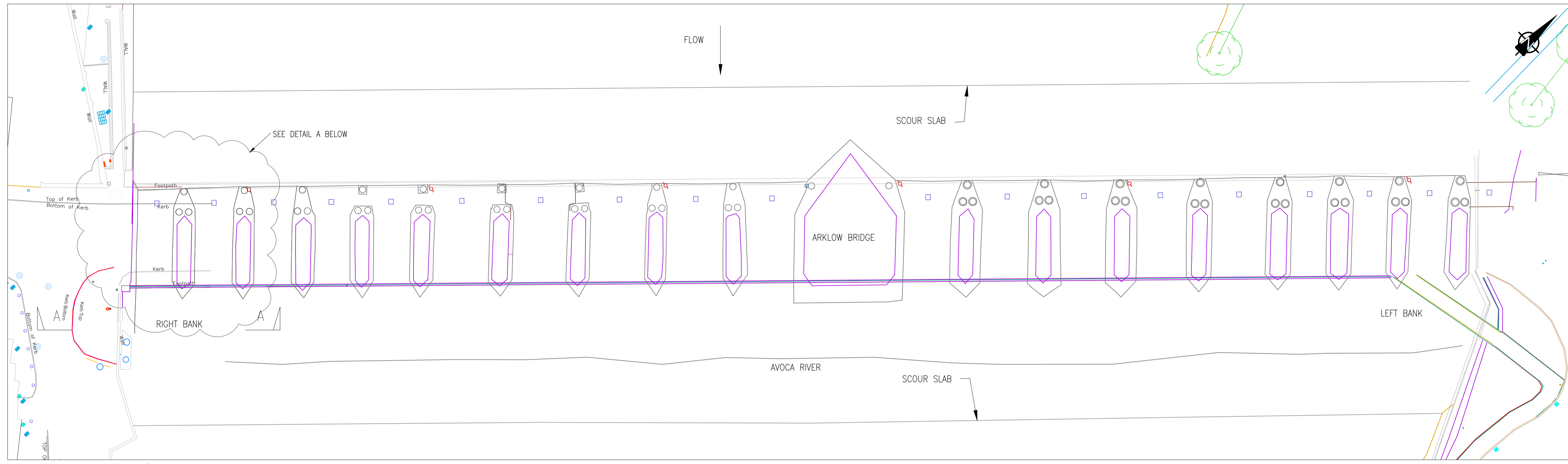
Issue  
**I01**



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2. DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS
3. DRAWING IS FOR INFORMATION PURPOSES ONLY, NOT FOR CONSTRUCTION

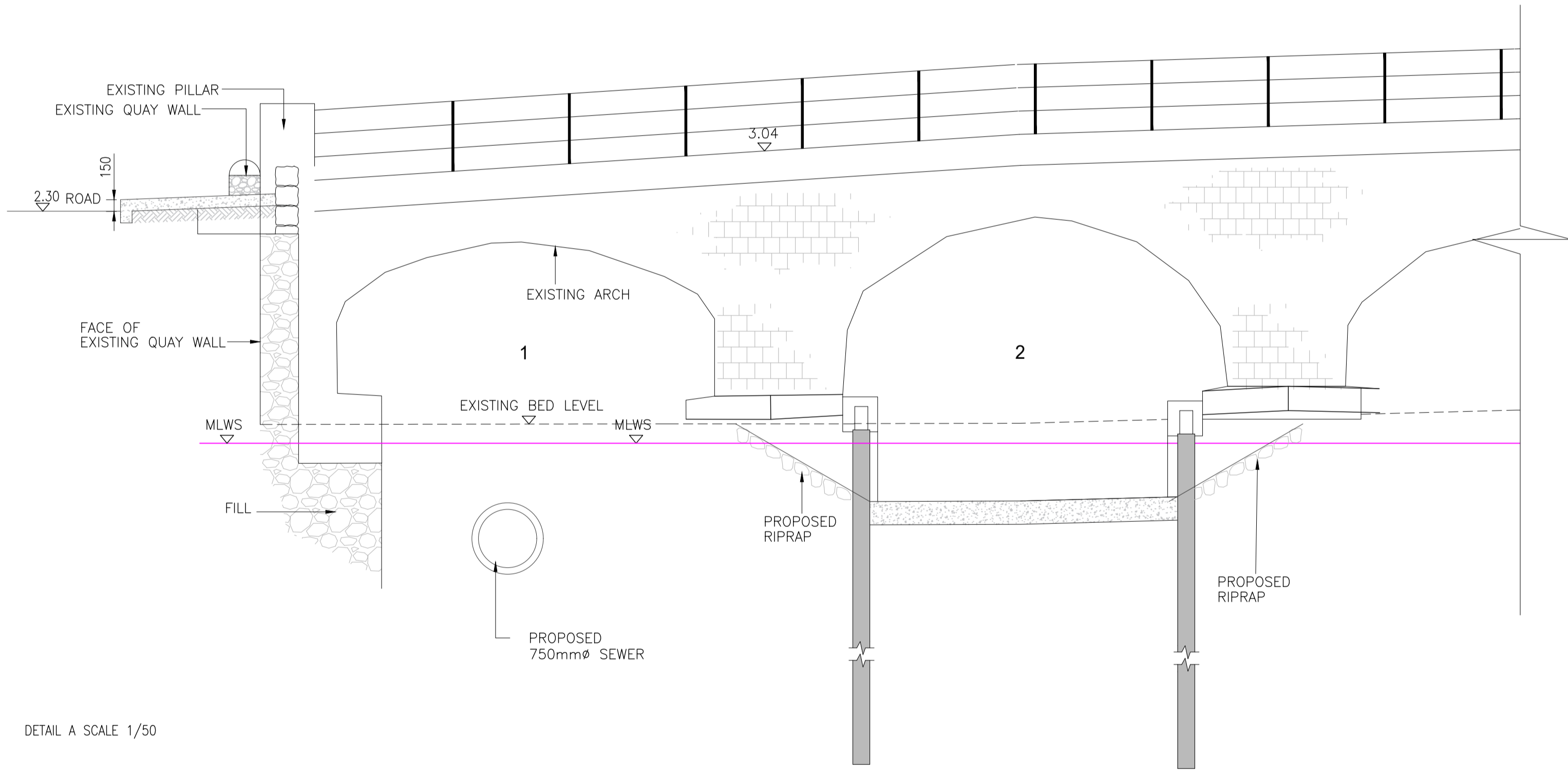


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LAYOUT PLAN AT BED LEVEL SCALE 1/250

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DETAIL A SCALE 1/50

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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client



Job Title  
 ARKLOW WASTEWATER TREATMENT PLANT PROJECT  
 (Foreshore Consent Application)

Scale at A1 AS SHOWN  
 Discipline CIVIL



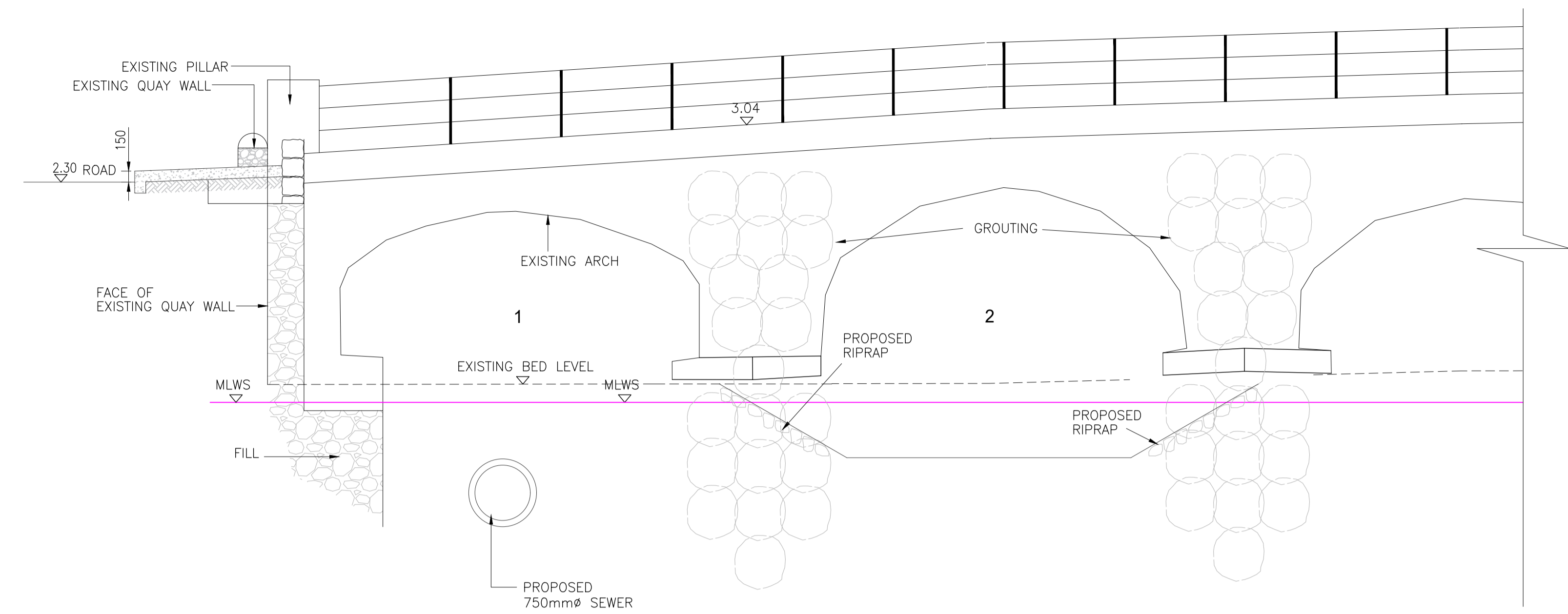
CLANCY MOORE ARCHITECTS

Drawing Title  
 ARKLOW BRIDGE WORKS  
 PROPOSED LAYOUT, PLAN,  
 ELEVATION & SECTIONS

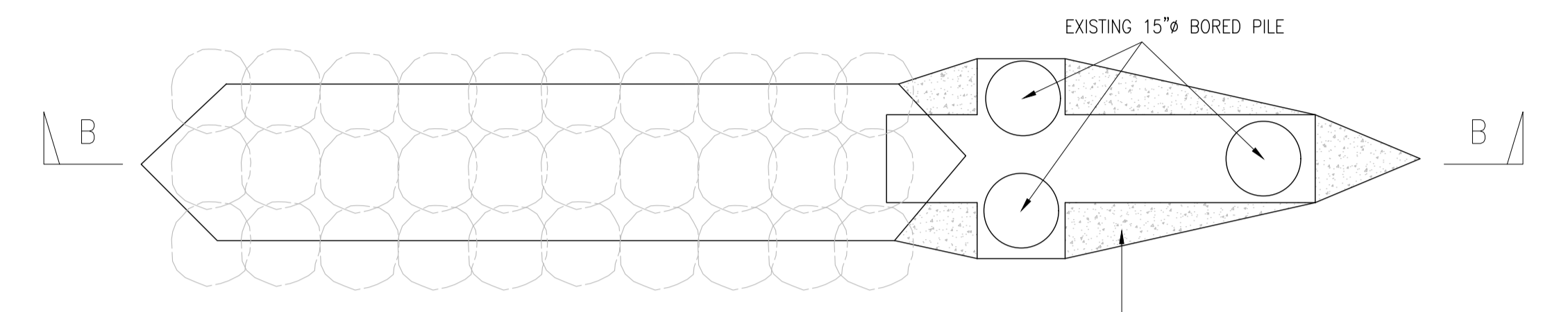
Drawing Status  
 FORESHORE CONSENT

Job No 247825-00 Drawing No C-IS-752 Issue I01

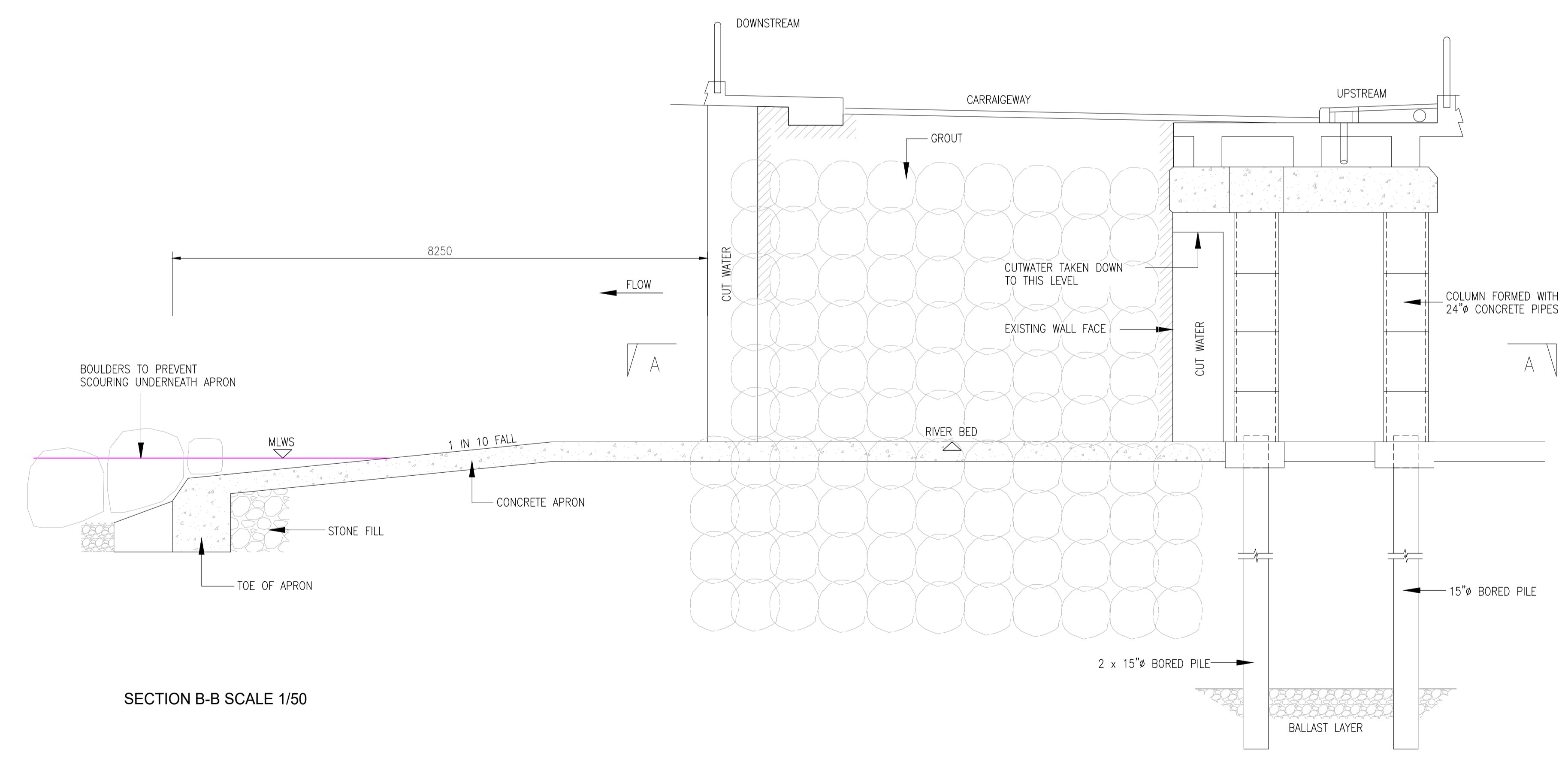
1. DO NOT SCALE OFF DRAWING
2. DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS
3. DRAWING IS FOR INFORMATION PURPOSES ONLY, NOT FOR CONSTRUCTION



DOWNSTREAM ELEVATION SCALE 1/50



SECTIONAL PLAN A-A SCALE 1/50



SECTION B-B SCALE 1/50

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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client



Job Title  
ARKLOW WASTEWATER TREATMENT PLANT PROJECT  
(Foreshore Consent Application)

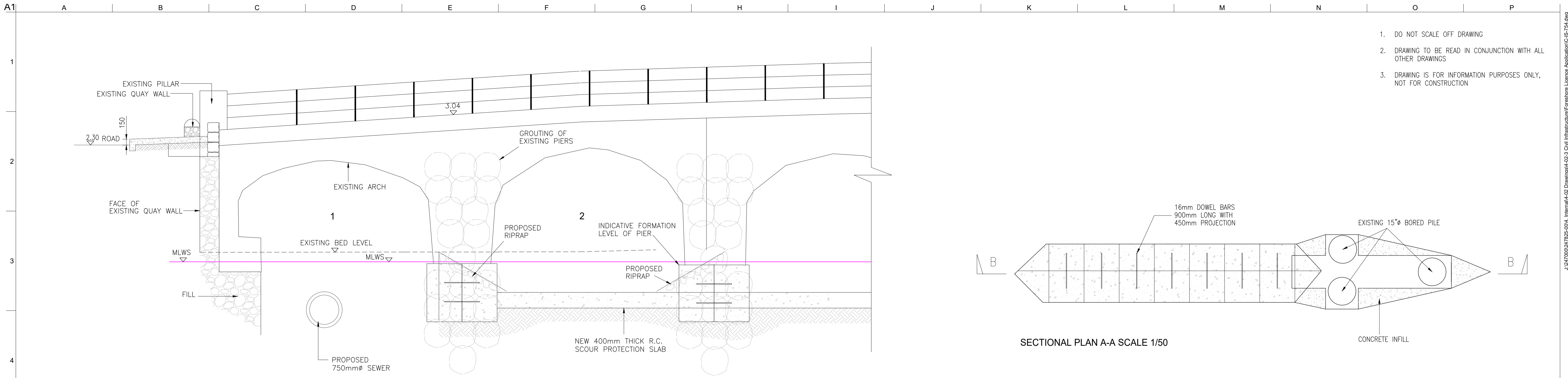
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Discipline CIVIL



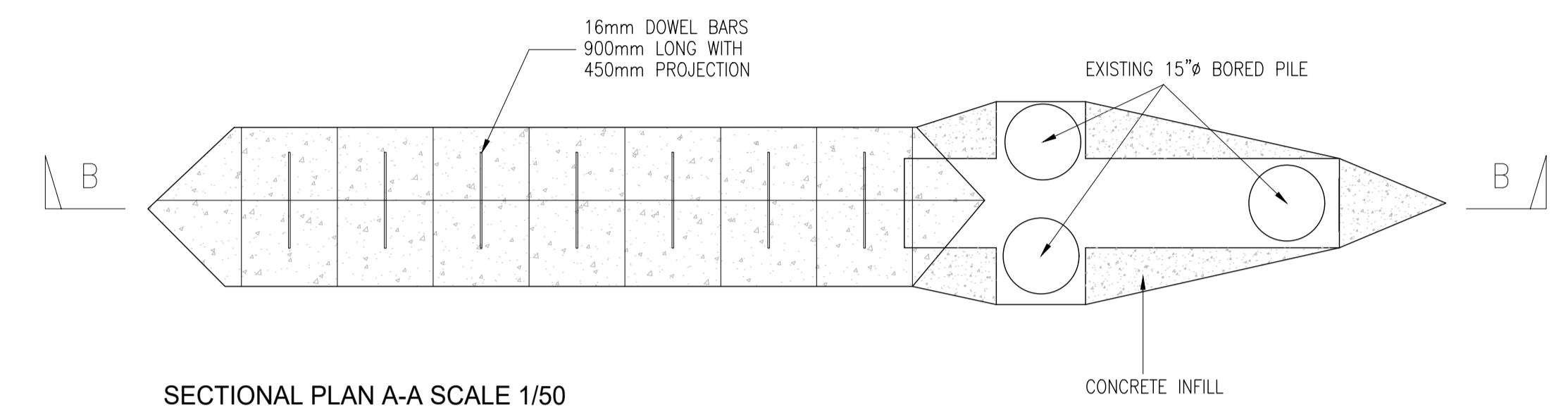
CLANCY MOORE ARCHITECTS

Drawing Title  
ARKLOW BRIDGE WORKS  
GROUTING WORKS  
STAGE 1

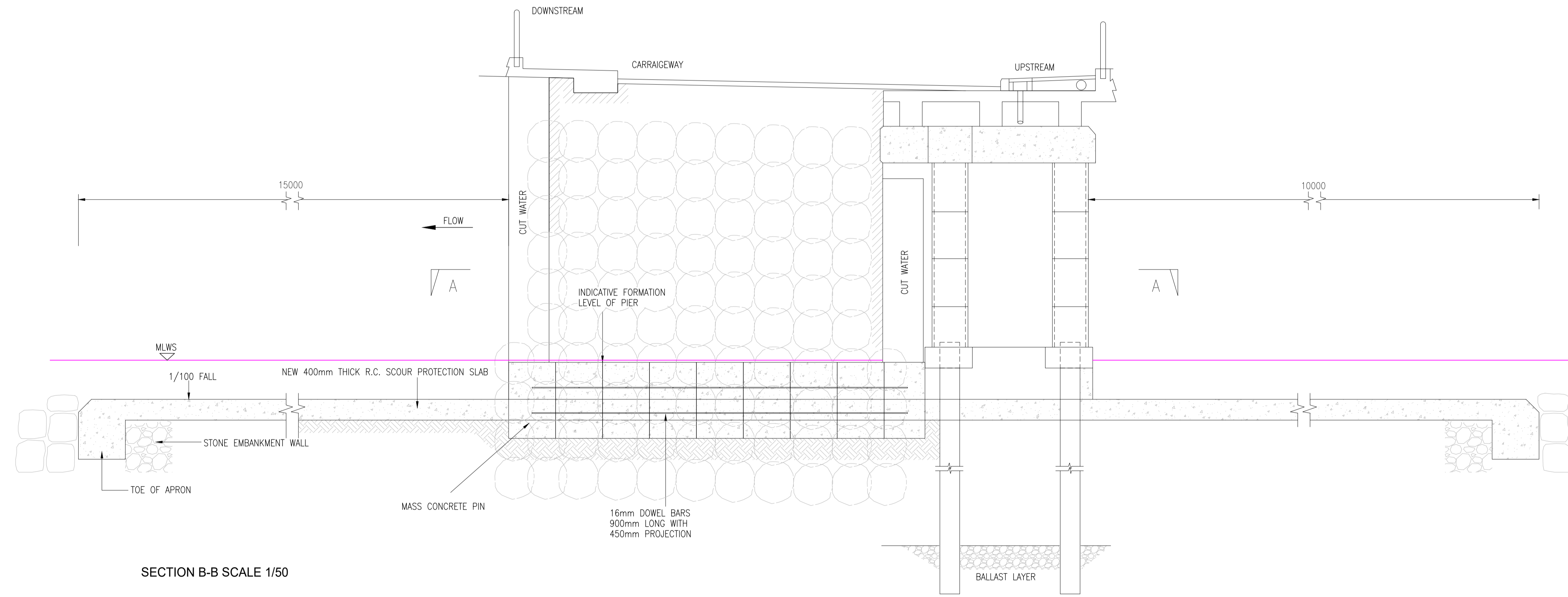
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FORESHORE CONSENT  
Job No 247825-00 Drawing No C-IS-753 Issue I01



DOWNSTREAM ELEVATION SCALE 1/50



SECTIONAL PLAN A-A SCALE 1/50

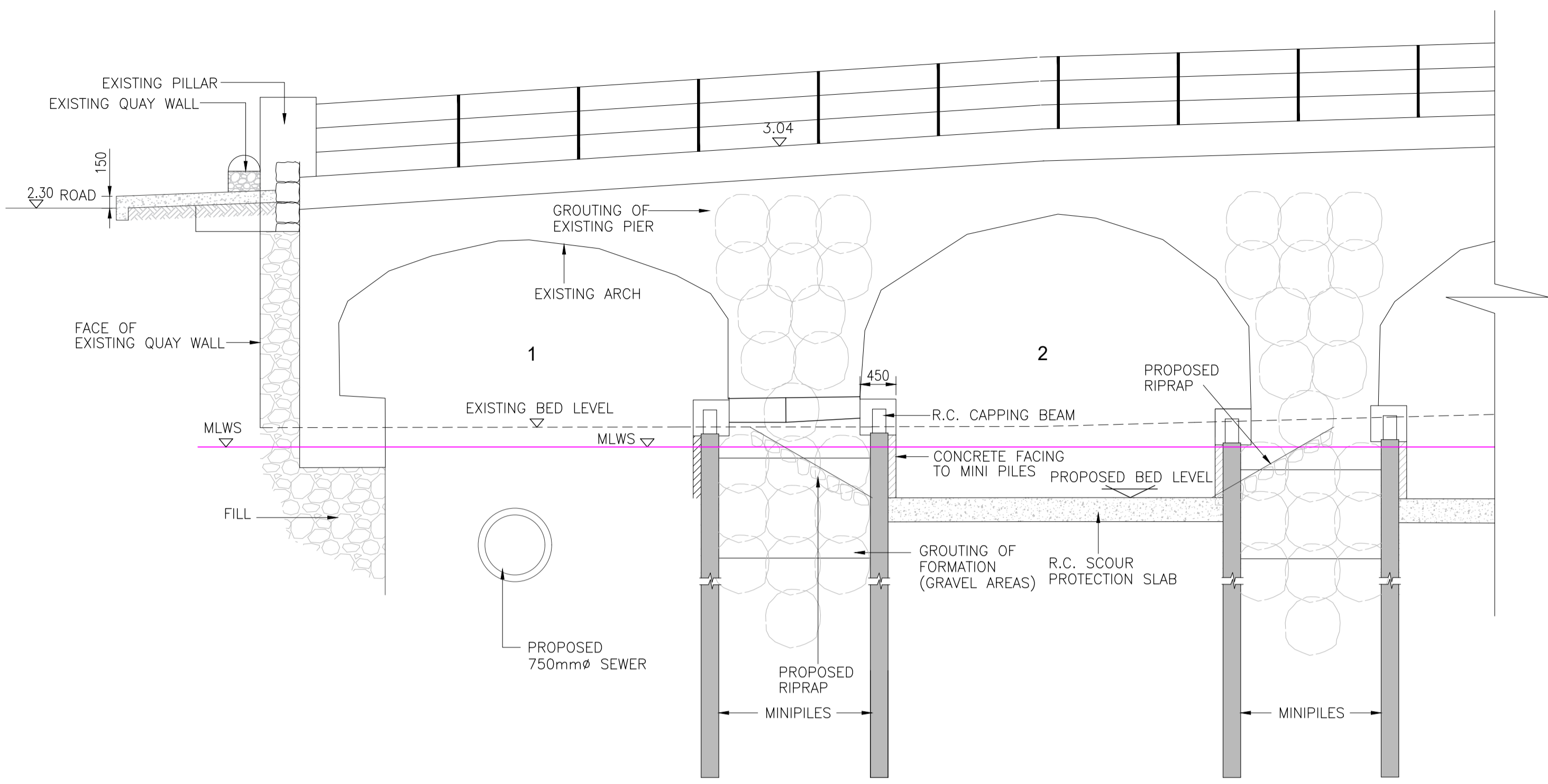


SECTION B-B SCALE 1/50

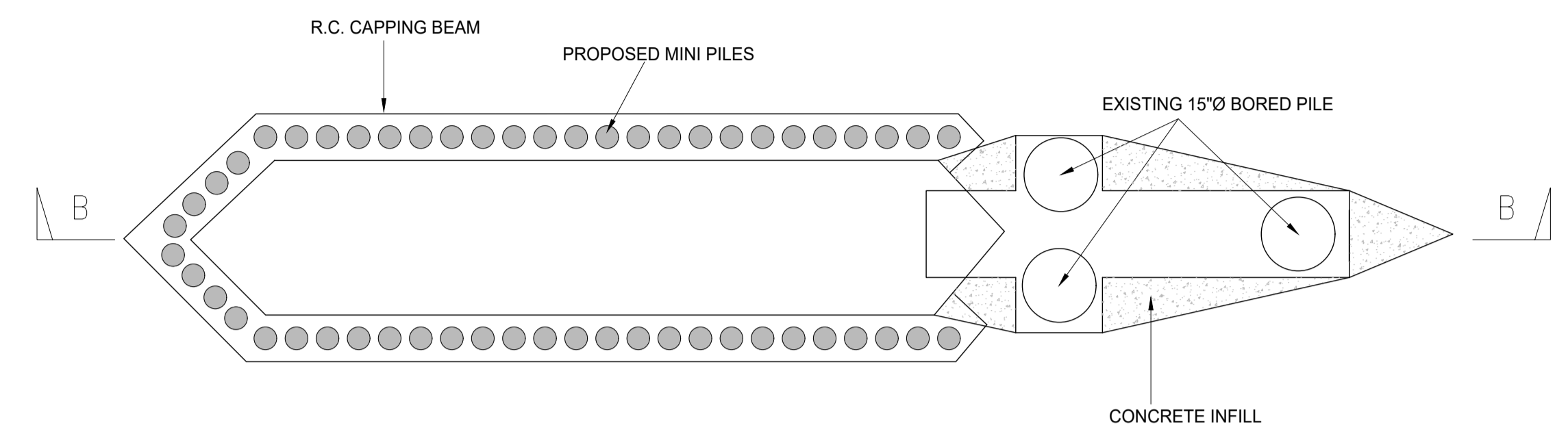
1. DO NOT SCALE OFF DRAWING
2. DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS
3. DRAWING IS FOR INFORMATION PURPOSES ONLY, NOT FOR CONSTRUCTION

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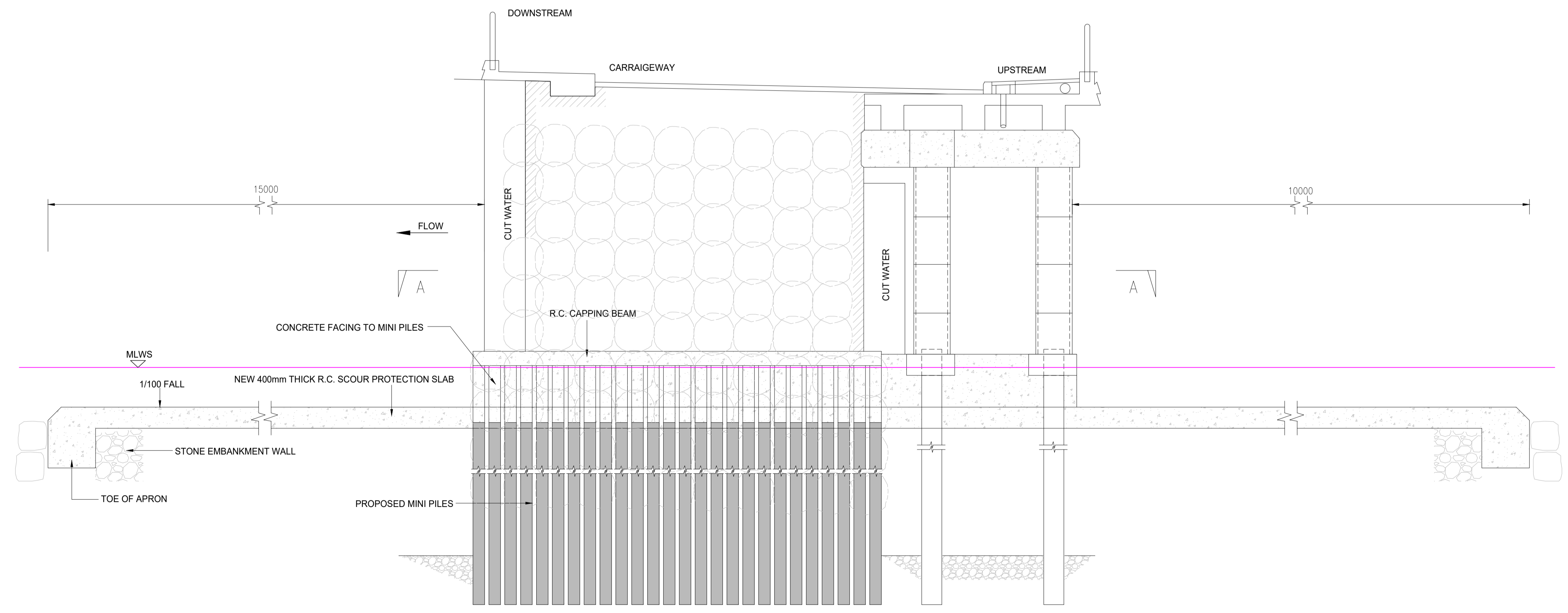
1. DO NOT SCALE OFF DRAWING
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DOWNSTREAM ELEVATION SCALE 1/50



SECTIONAL PLAN A-A SCALE 1/50



SECTION B-B SCALE 1/50

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Client

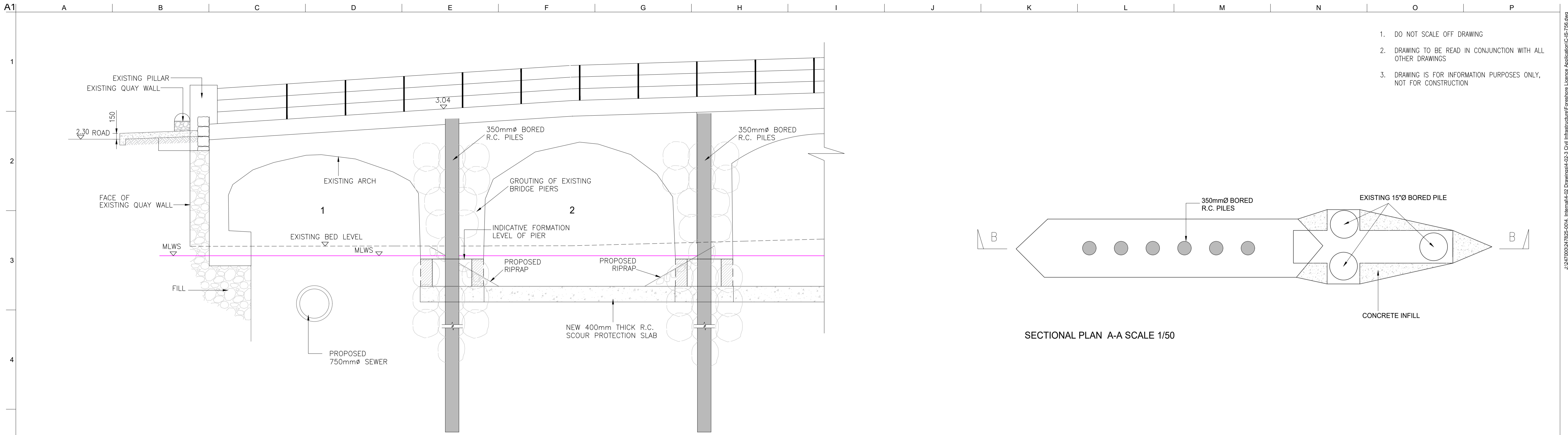


Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foreshore Consent Application)  
 Scale at A1 AS SHOWN  
 Discipline CIVIL

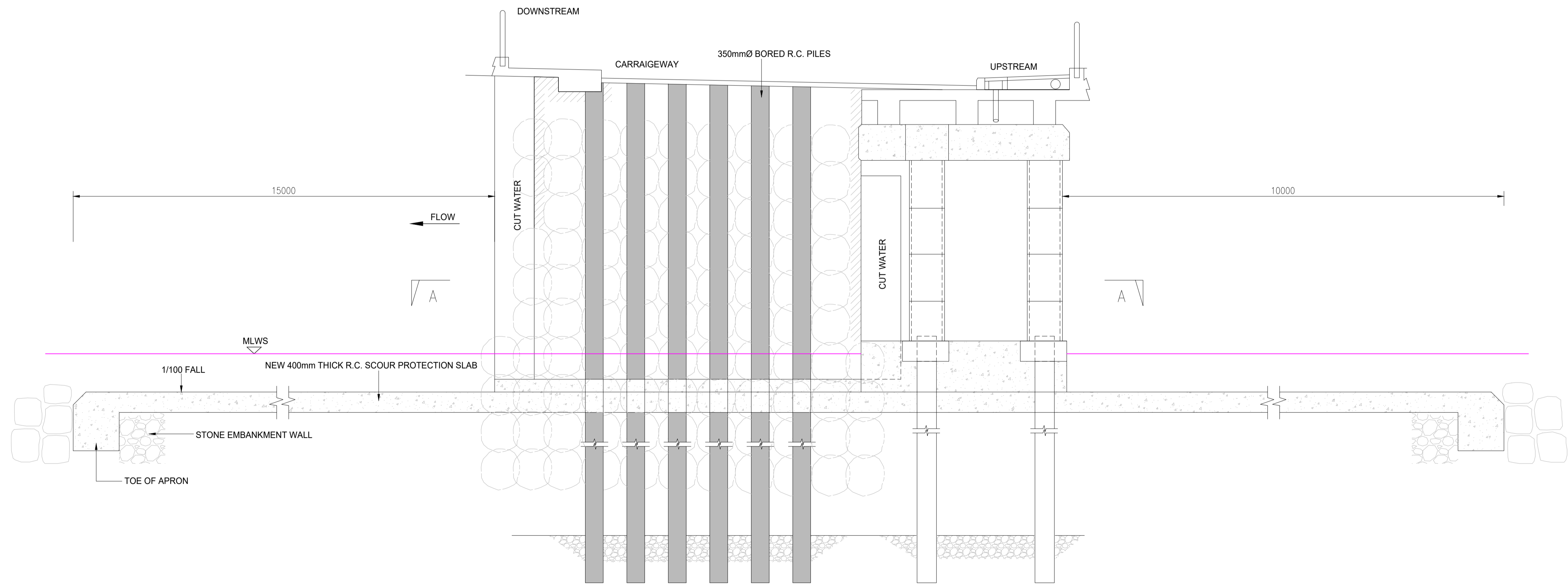
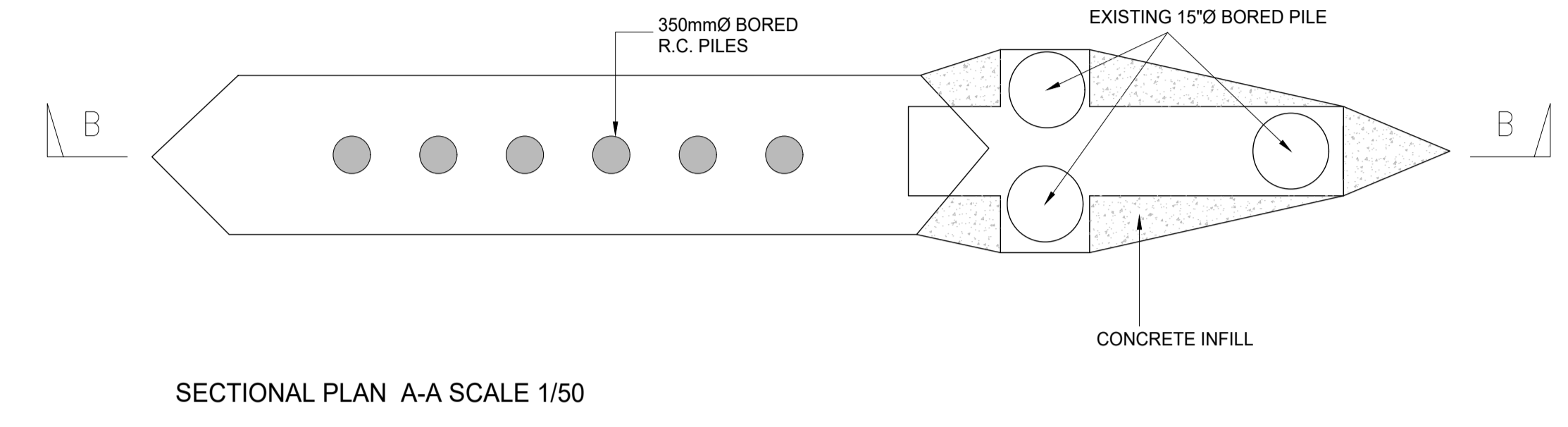
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**CLANCY MOORE ARCHITECTS**

Drawing Title  
**ARKLOW BRIDGE WORKS UNDERPINNING OPTION 2**  
 Drawing Status  
**FORESHORE CONSENT**  
 Job No 247825-00 Drawing No C-IS-755 Issue I01

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



DOWNSTREAM ELEVATION SCALE 1/50

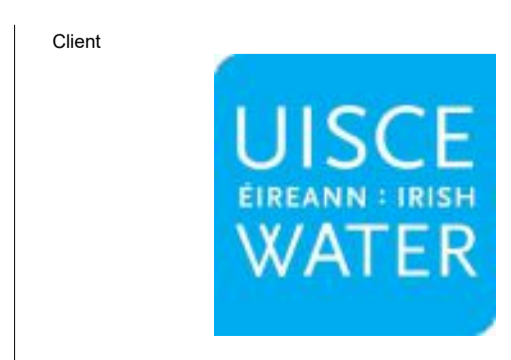


SECTION B-B SCALE 1/50

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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Client  
 ARKLOW WASTEWATER TREATMENT PLANT PROJECT  
 (Foreshore Consent Application)

Scale at A1  
 AS SHOWN

Discipline  
 CIVIL

ARUP BYRNELOOBY  
 CLANCY MOORE ARCHITECTS

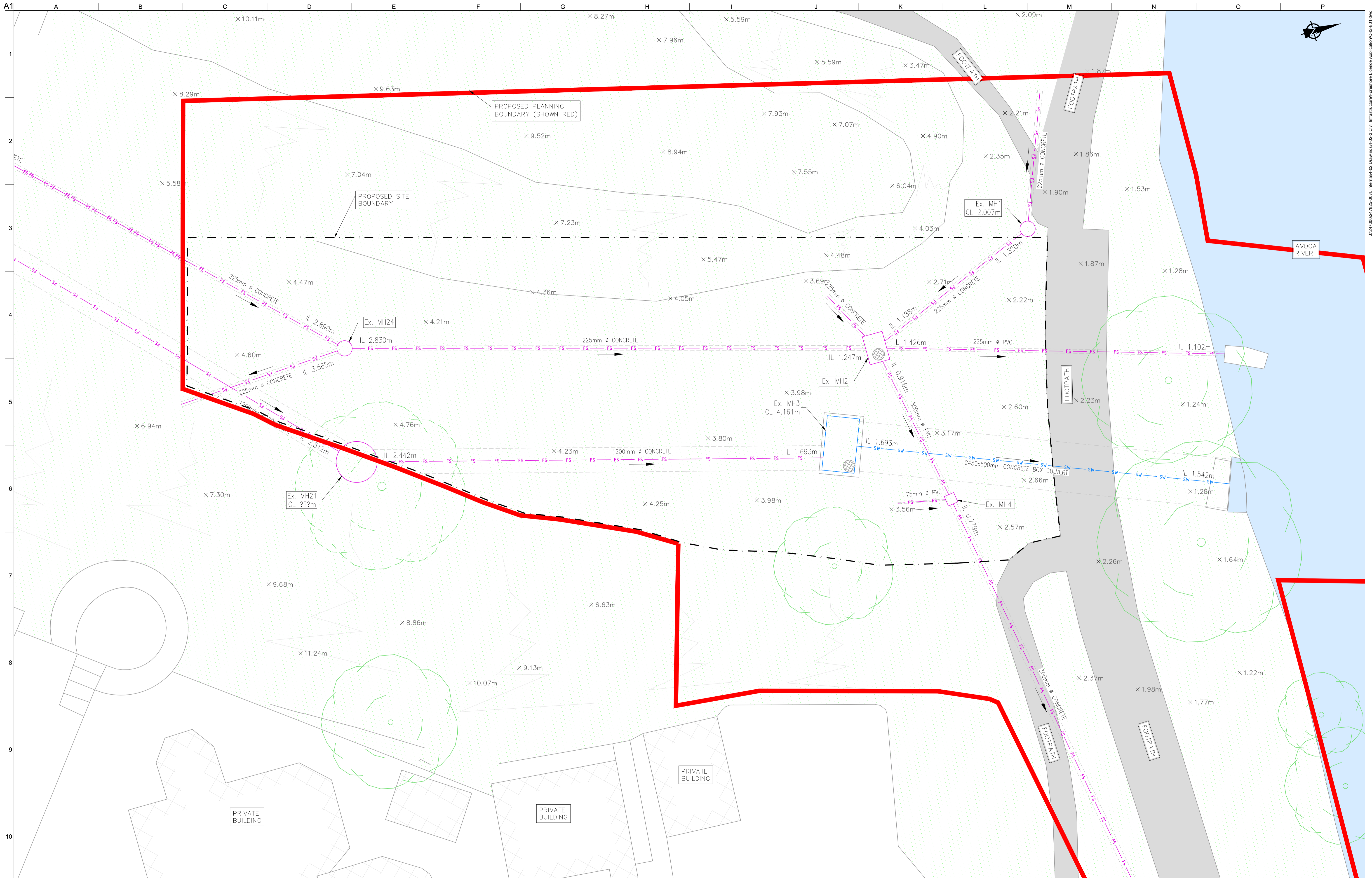
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 ARKLOW BRIDGE WORKS UNDERPINNING OPTION 3

Drawing Status  
 FORESHORE CONSENT

Job No  
 247825-00

Drawing No  
 C-IS-756

Issue  
 I01



**LEGEND**

- PROPOSED PLANNING BOUNDARY
- PROPOSED SITE BOUNDARY
- EXISTING FOUL/COMBINED SEWER
- EXISTING SURFACE WATER

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OSi Sheet numbers:  
 4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foreshore Consent Application)

Scale at A1 1:100

Discipline  
 CIVIL

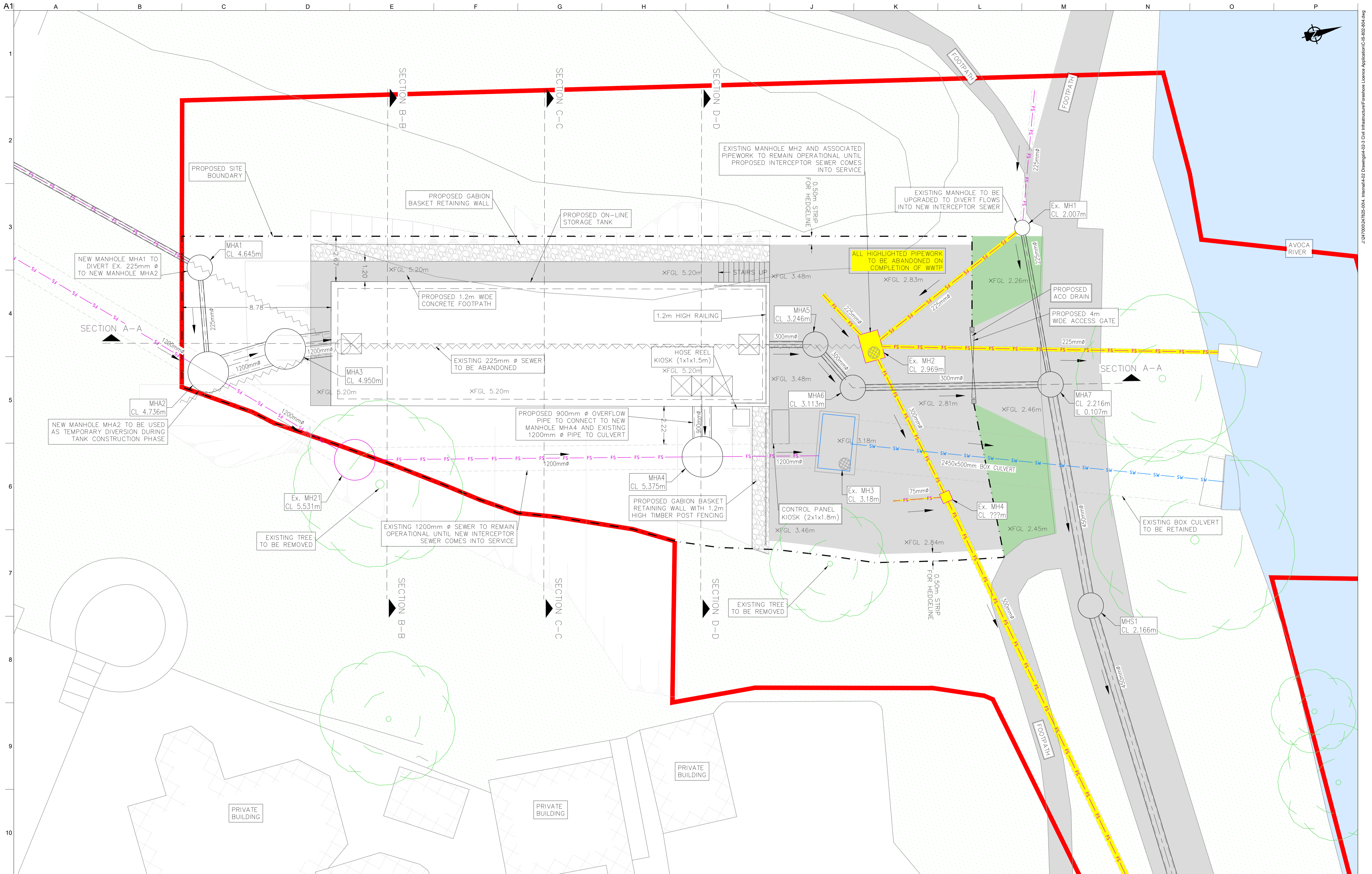
CLANCY MOORE ARCHITECTS

Drawing Title  
**THE ALPS SWO EXISTING SITE LAYOUT**

Drawing Status  
**FORESHORE CONSENT**

Job No 247825-00  
 Drawing No C-IS-801  
 Issue I01





**LEGEND**

PROPOSED PLANNING BOUNDARY	TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
PROPOSED SITE BOUNDARY	EXISTING TREE
EXISTING FOUL/COMBINED SEWER	EXISTING TREE TO BE REMOVED
EXISTING SURFACE WATER	
TO BE ABANDONED	

OSi Sheet numbers: 4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17
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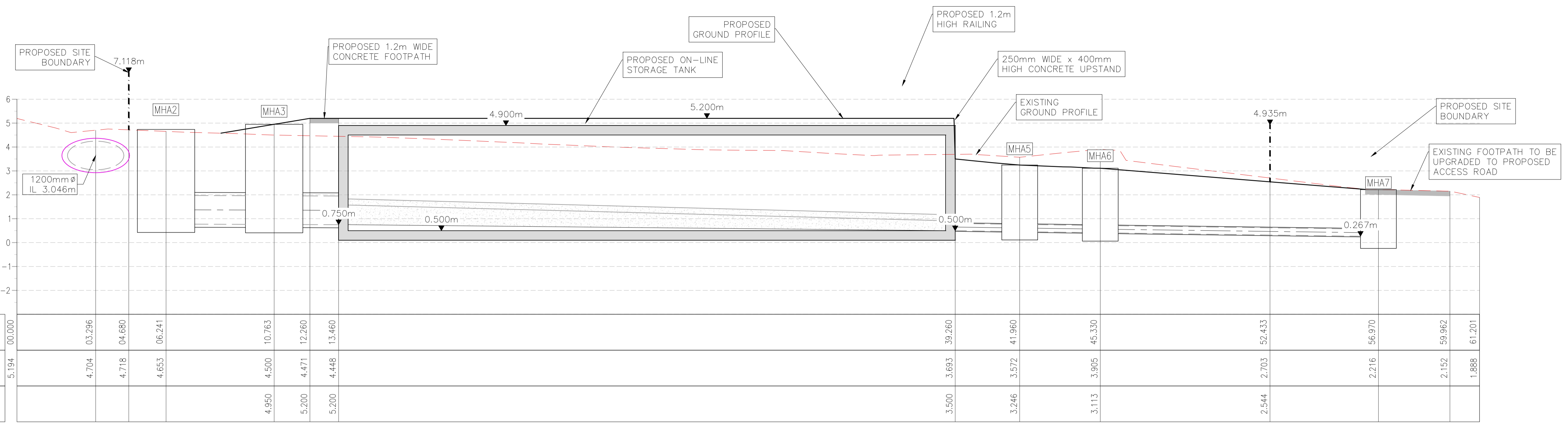
OSi	Ordnance Survey			
Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client	UISCE ÉIREANN : IRISH WATER
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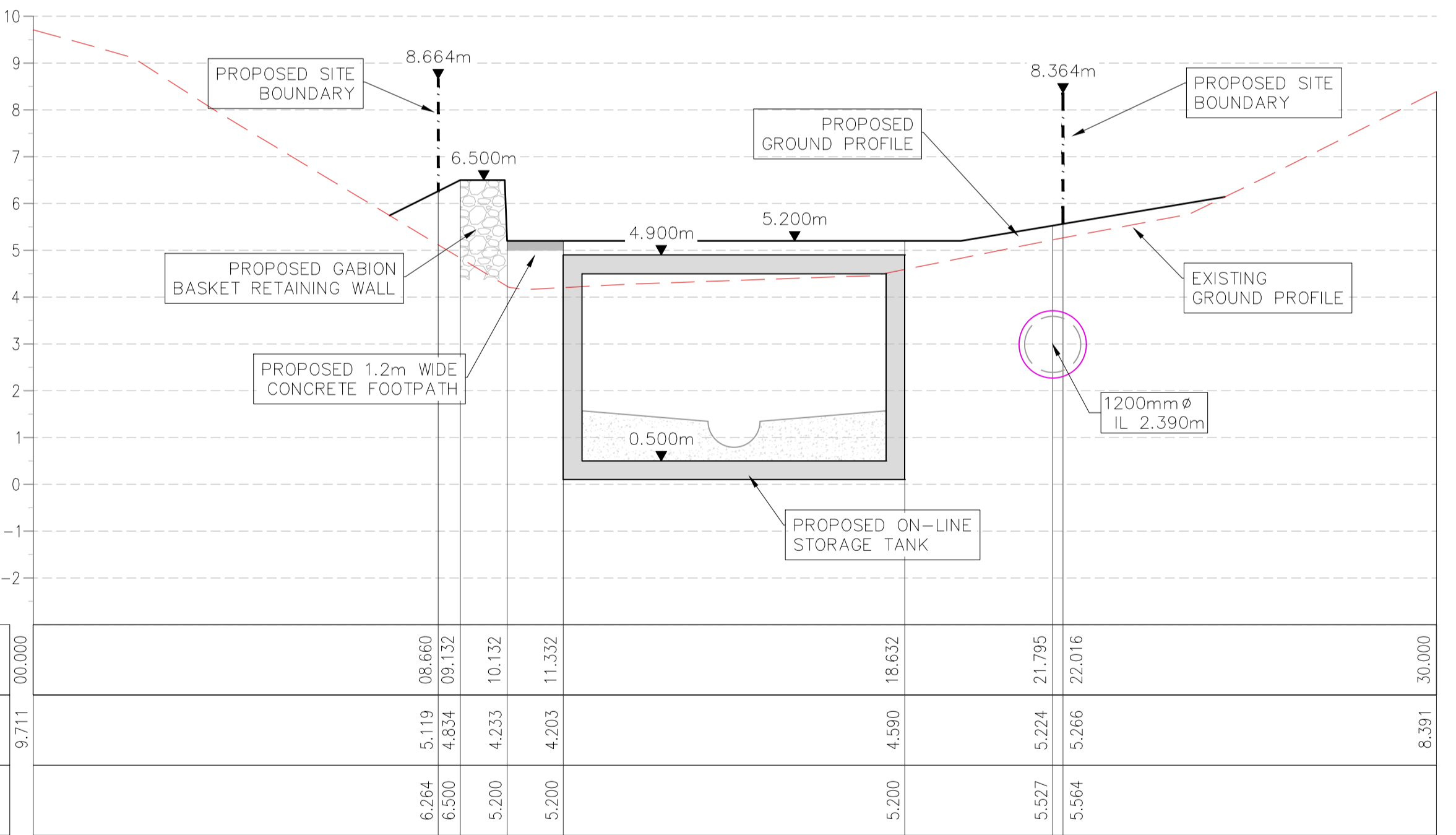
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Scale at A1	1:100
Discipline	CIVIL

ARUP BYRNE LOOBY
CLANCY MOORE ARCHITECTS

Drawing Title	THE ALPS SWO PROPOSED SITE LAYOUT
Drawing Status	FORESHORE CONSENT
Job No	247825-00
Drawing No	C-IS-802
Issue	I01



SECTION A-A - LONGSECTION  
 SCALE: H 1:100, V 1:100.

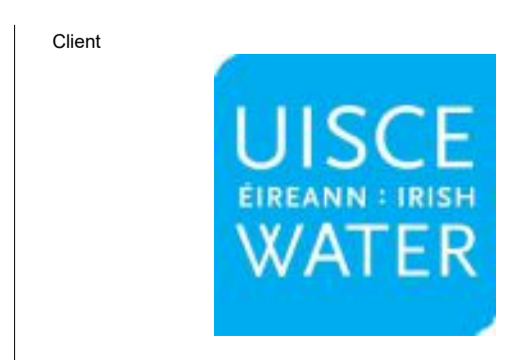


SECTION B-B - LONGSECTION  
 SCALE: H 1:100, V 1:100.

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 OSi Sheet numbers:  
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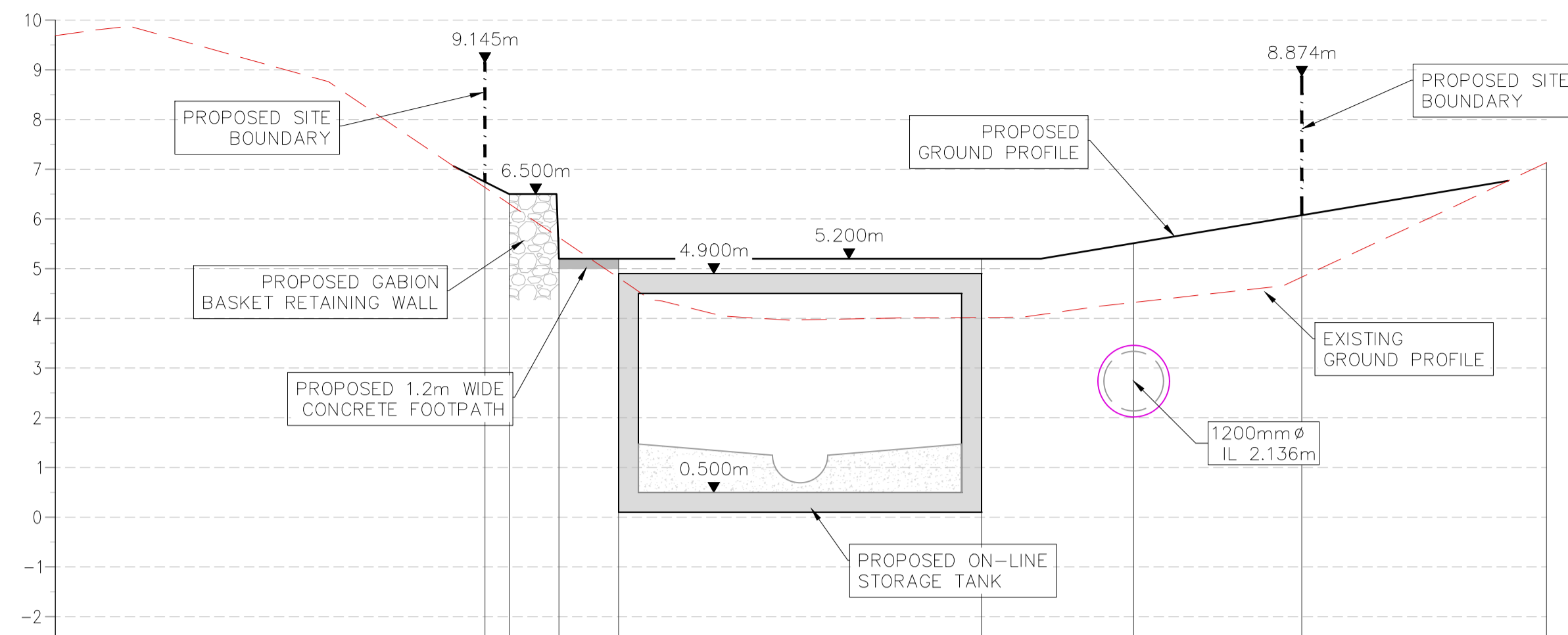
Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Client  
 Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foreshore Consent Application)  
 Scale at A1 AS SHOWN  
 Discipline CIVIL

ARUP BYRNE LOOBY  
 CLANCY MOORE ARCHITECTS

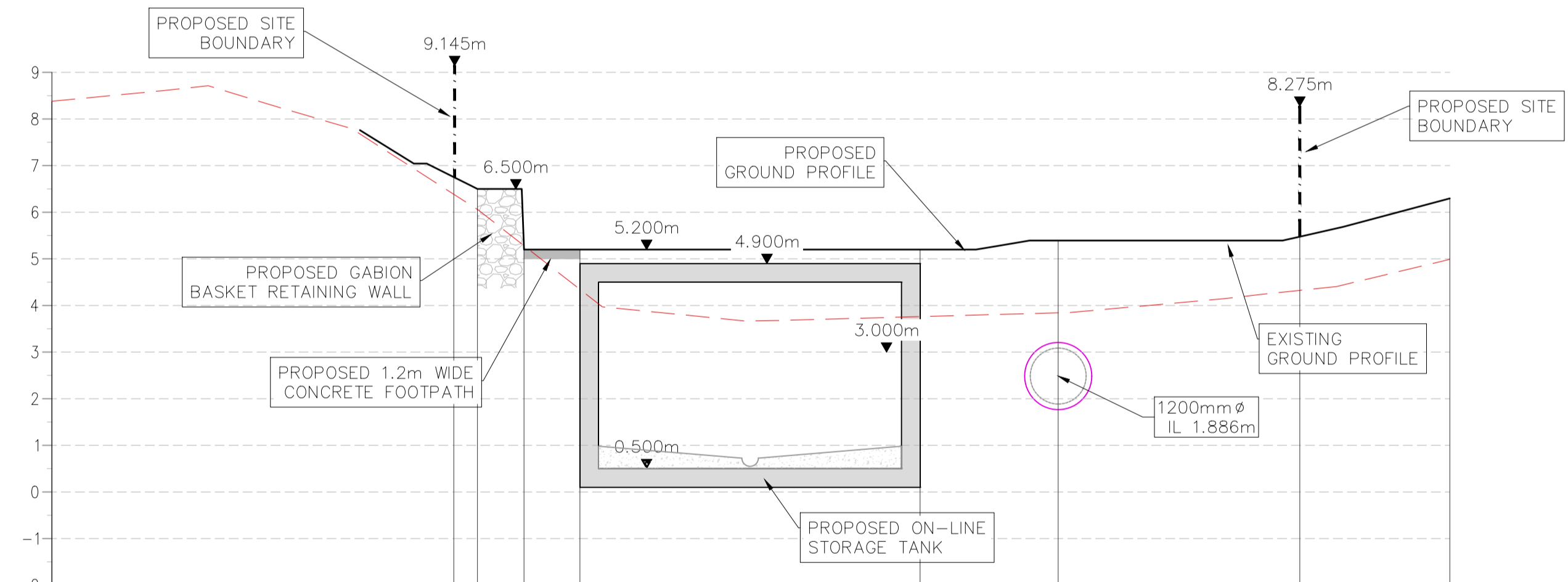
Drawing Title  
**THE ALPS SWO PROPOSED SITE SECTIONS**  
 1 OF 2  
 Drawing Status  
**FORESHORE CONSENT**  
 Job No 247825-00 Drawing No C-IS-803 Issue I01



DATUM -3.00m

CHAINAGE	00.000	08.643	09.132	10.132	11.332	18.632	21.696	25.078	30.000
EXISTING GROUND LEVEL (m)	9.687	6.634	6.303	5.626	4.815	4.019	4.320	4.830	7.133
PROPOSED GROUND LEVEL (m)		6.745	6.500	5.200	5.200	5.200	5.511	6.074	

SECTION C-C - LONGSECTION  
SCALE: H 1:100,V 1:100.

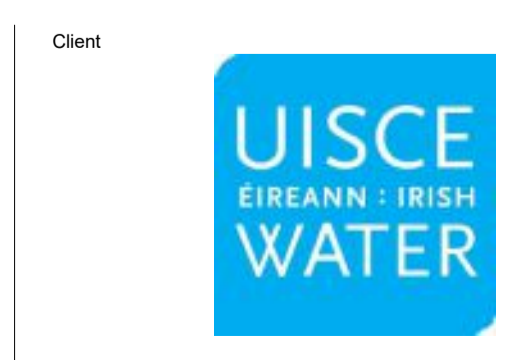


DATUM -3.00m

CHAINAGE	00.000	08.625	09.132	10.132	11.332	18.632	21.597	26.781	30.000
EXISTING GROUND LEVEL (m)	8.380	6.385	6.059	5.282	4.345	3.761	3.843	4.324	4.989
PROPOSED GROUND LEVEL (m)		6.754	6.500	5.200	5.200	5.200	5.392	5.475	6.296

SECTION D-D - LONGSECTION  
SCALE: H 1:100,V 1:100.

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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17



Client  
Job Title  
ARKLOW WASTEWATER TREATMENT PLANT PROJECT  
(Foreshore Consent Application)  
Scale at A1 AS SHOWN  
Discipline CIVIL

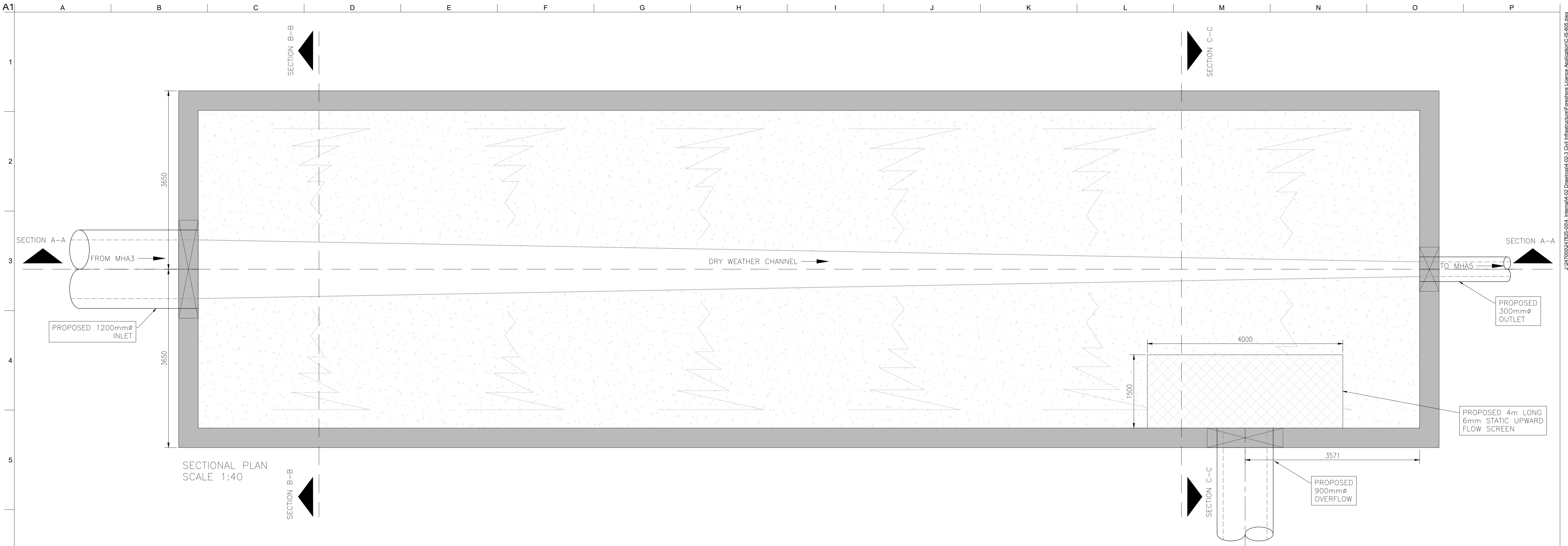
ARUP BYRNELOOBY  
CLANCY MOORE ARCHITECTS

Drawing Title  
THE ALPS SWO PROPOSED SITE SECTIONS  
2 OF 2  
Drawing Status  
FORESHORE CONSENT  
Job No 247825-00 Drawing No C-IS-804 Issue I01

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

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J:\02\00247825-004 - Internal\422 Drawings\4223 - Civil Infrastructure\Foreshore Licence Application\C-IS-804.dwg  
© Arup



SECTIONAL PLAN  
SCALE 1:40



ROOF PLAN  
SCALE 1:40

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OSi Sheet numbers:  
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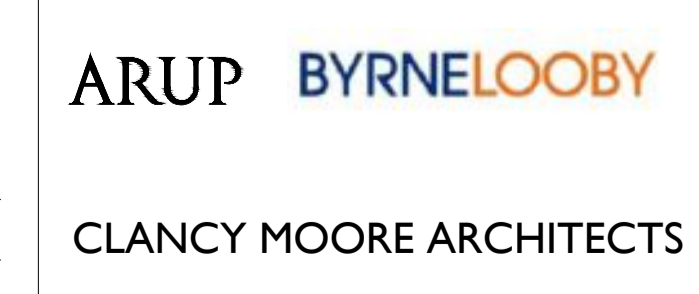
Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client



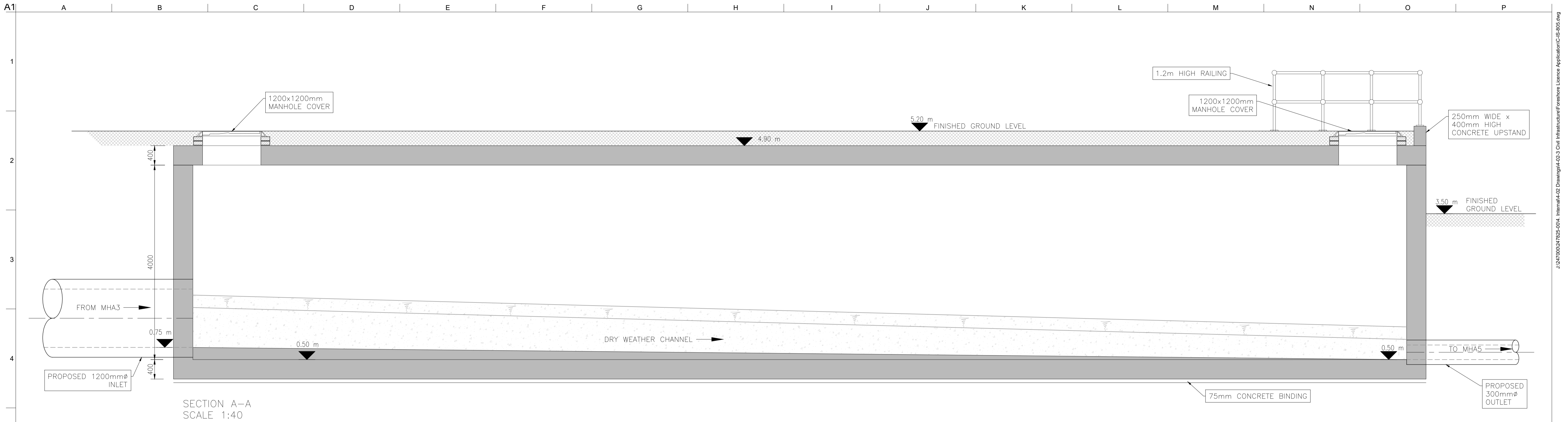
Job Title  
**ARKLOW WASTEWATER  
TREATMENT PLANT PROJECT  
(Foreshore Consent Application)**

Scale at A1  
AS SHOWN  
Discipline  
CIVIL

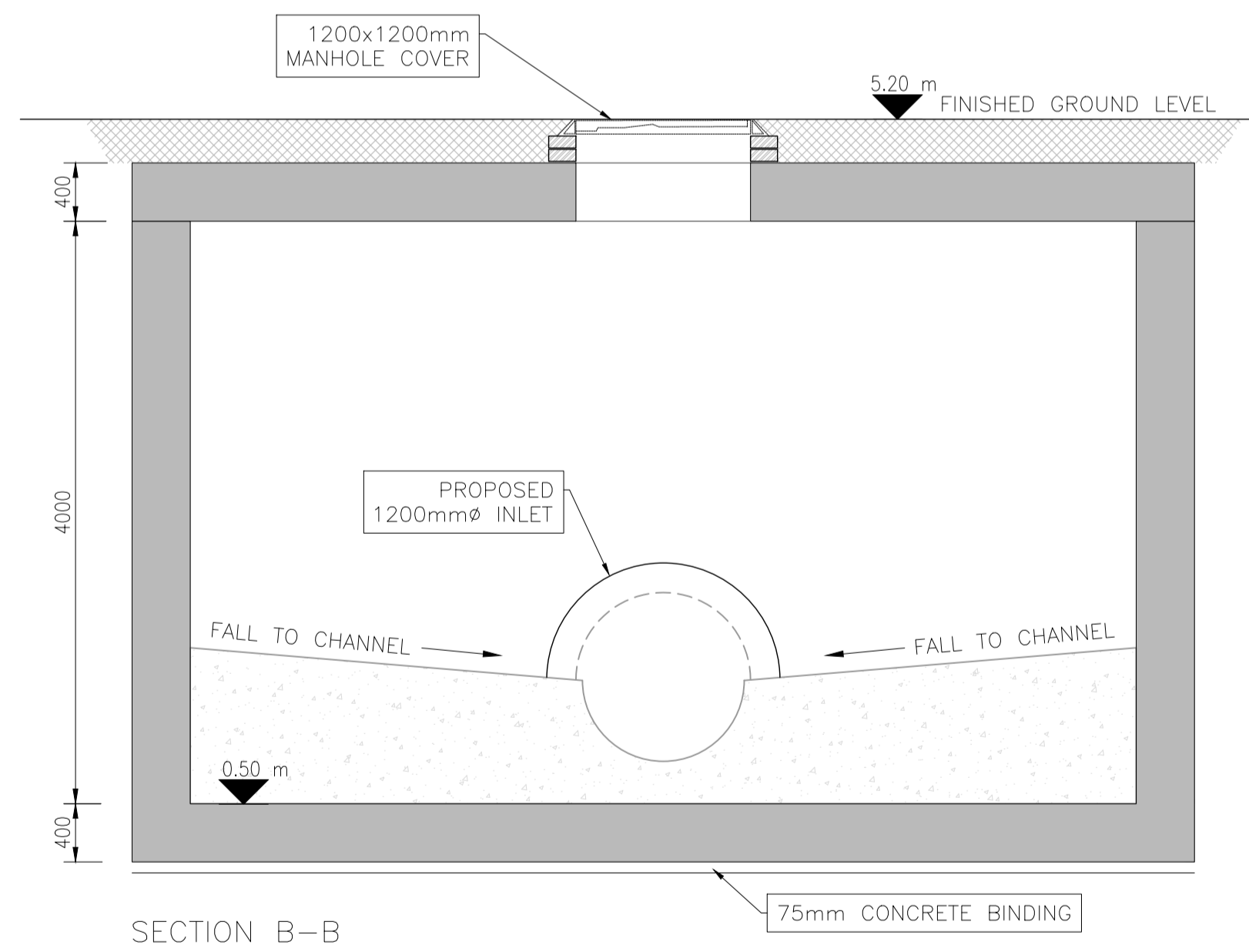


Drawing Title  
**THE ALPS SWO  
ONLINE STORAGE TANK  
GENERAL ARRANGEMENT PLANS**

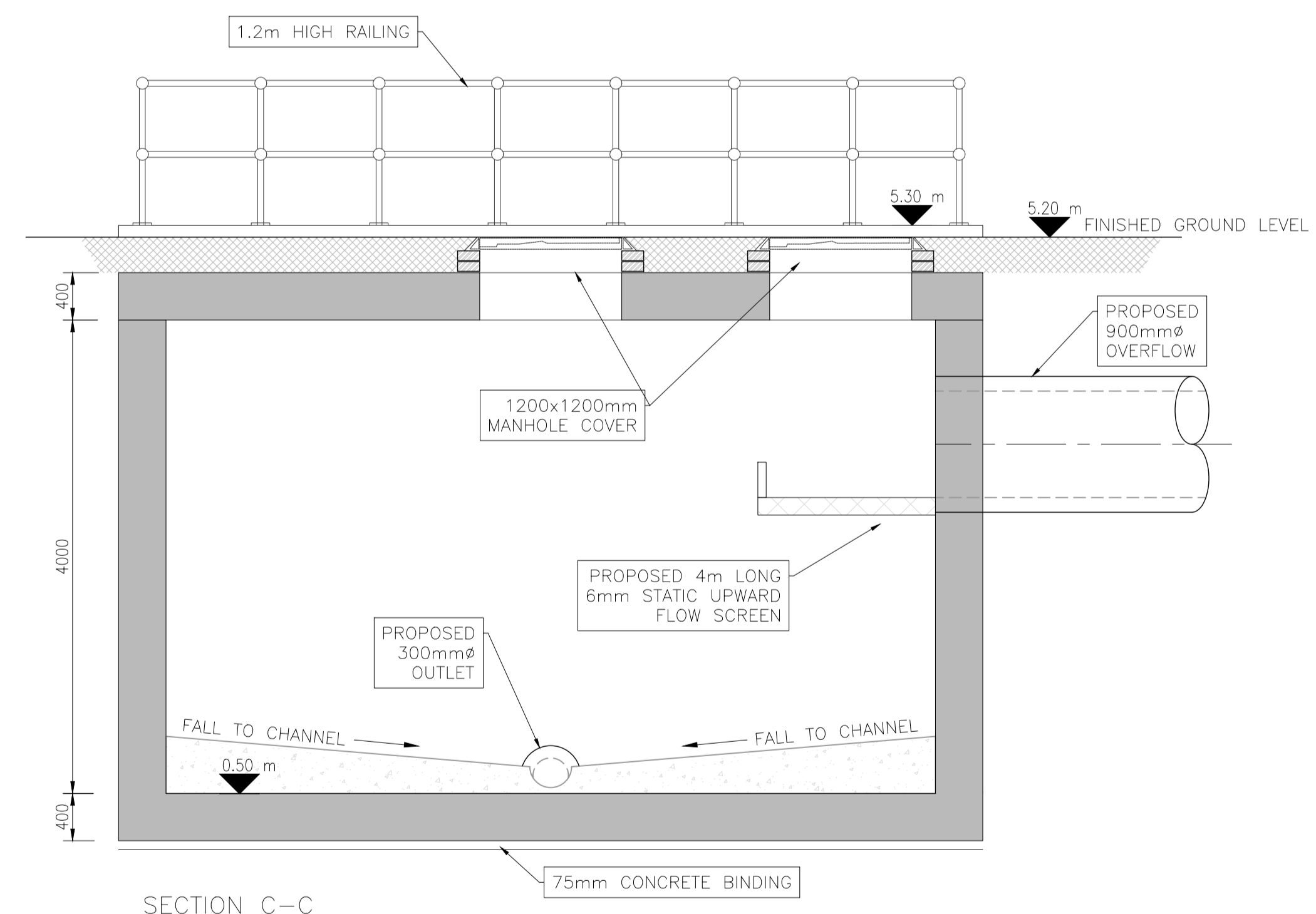
Drawing Status  
**FORESHORE CONSENT**  
Job No  
247825-00  
Drawing No  
C-IS-805  
Issue  
I01



SECTION A-A  
SCALE 1:40



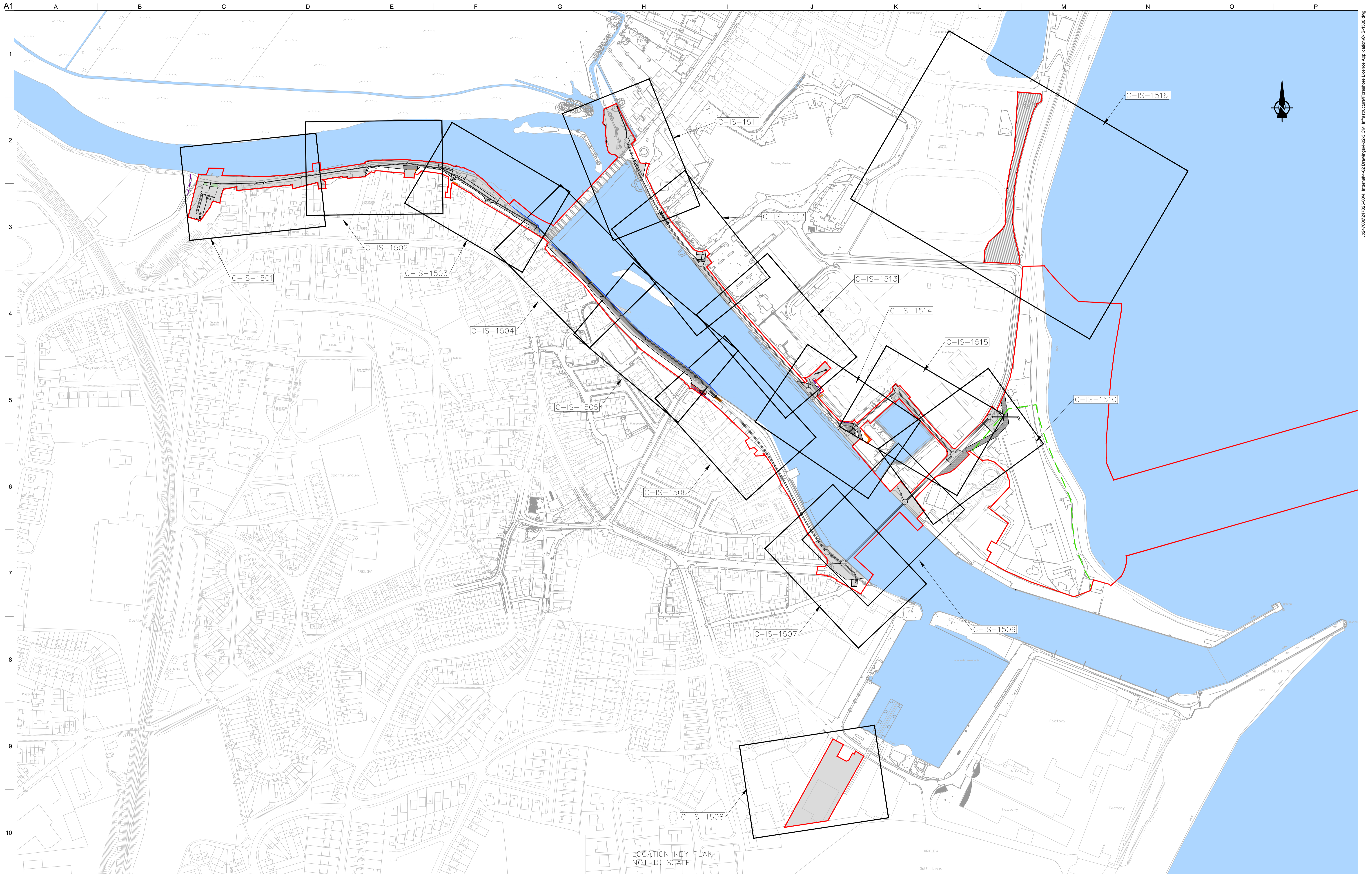
SECTION B-B  
SCALE 1:40



SECTION C-C  
SCALE 1:40

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Job No	Drawing No	Issue									
247825-00	C-IS-806	I01									

Do not scale



**LEGEND**

- PROPOSED PLANNING BOUNDARY
- PROPOSED WWTP SITE BOUNDARY
- PROPOSED INTERCEPTOR SEWER
- PROPOSED SHEET PILE WITH CAPPING BEAM
- RECLAIMED LAND

**LEGEND - WORKING AREA**

- WORKING AREA
- WORKING AREAS WHICH OVERLAP
- TEMPORARY ACCESS ROAD
- NIGHT WORKS ONLY
- WORKING AREAS IN RIVER
- TEMPORARY PEDESTRIAN WALKWAY

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OSi Sheet numbers:  
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OSi

LOCATION KEY PLAN  
NOT TO SCALE

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
 AS SHOWN

Discipline  
 CIVIL

**CLANCY MOORE ARCHITECTS**

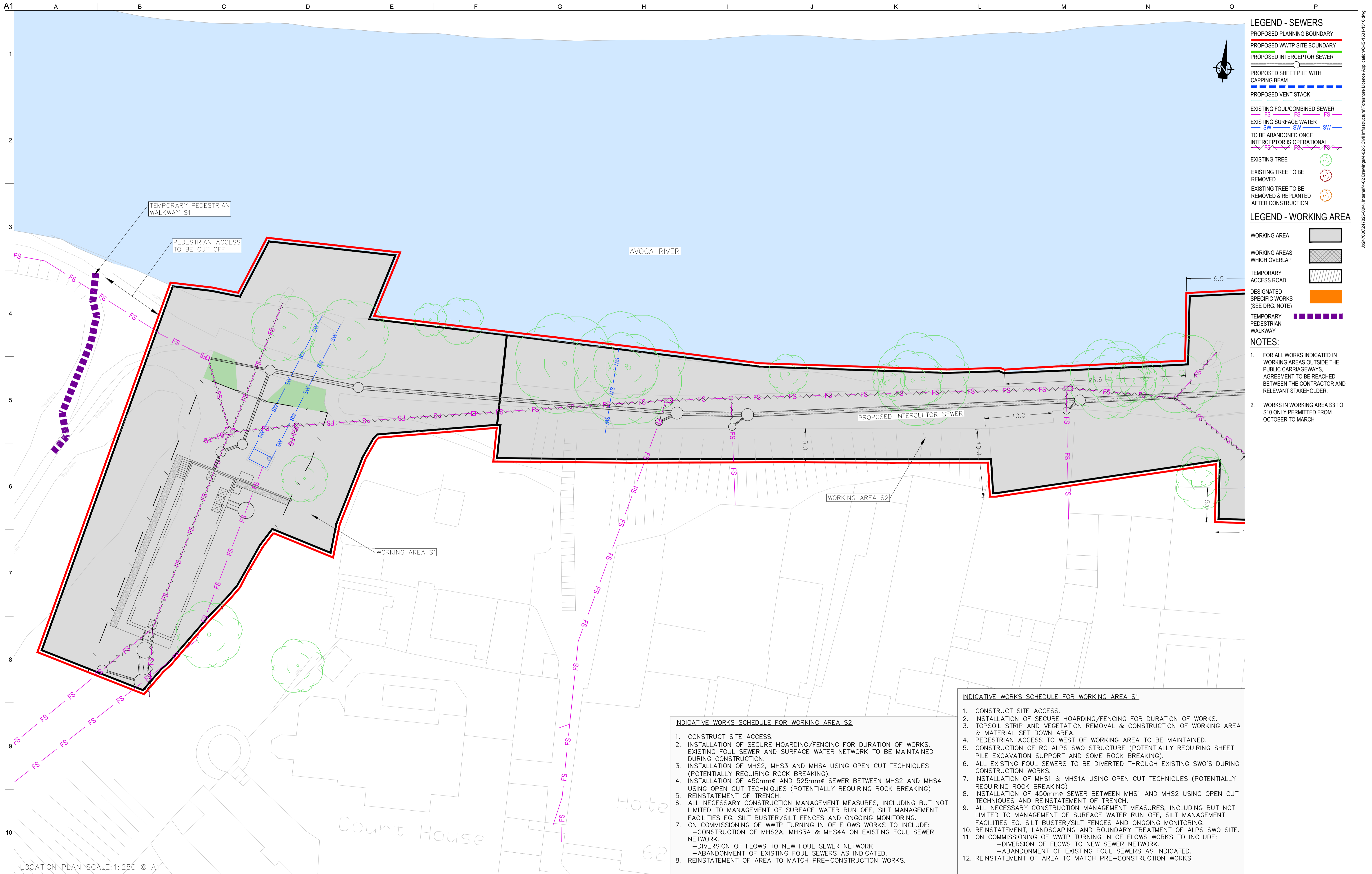
Drawing Title  
**WORKING AREAS KEY PLAN**

Drawing Status  
**FORESHORE CONSENT**

Job No  
 247825-00

Drawing No  
 C-IS-1500

Issue  
 I01



**LEGEND - SEWERS**

- PROPOSED PLANNING BOUNDARY
- PROPOSED WWTP SITE BOUNDARY
- PROPOSED INTERCEPTOR SEWER
- PROPOSED SHEET PILE WITH CAPPING BEAM
- PROPOSED VENT STACK
- EXISTING FOUL COMBINED SEWER
- EXISTING SURFACE WATER
- TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

**LEGEND - WORKING AREA**

- WORKING AREA
- WORKING AREAS WHICH OVERLAP
- TEMPORARY ACCESS ROAD
- DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
- TEMPORARY PEDESTRIAN WALKWAY

**NOTES:**

1. FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.
2. WORKS IN WORKING AREA S3 TO S10 ONLY PERMITTED FROM OCTOBER TO MARCH

**INDICATIVE WORKS SCHEDULE FOR WORKING AREA S1**

1. CONSTRUCT SITE ACCESS.
2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS.
3. TOPSOIL STRIP AND VEGETATION REMOVAL & CONSTRUCTION OF WORKING AREA & MATERIAL SET DOWN AREA.
4. PEDESTRIAN ACCESS TO WEST OF WORKING AREA TO BE MAINTAINED.
5. CONSTRUCTION OF RC ALPS SWO STRUCTURE (POTENTIALLY REQUIRING SHEET PILE EXCAVATION SUPPORT AND SOME ROCK BREAKING).
6. ALL EXISTING FOUL SEWERS TO BE DIVERTED THROUGH EXISTING SWO'S DURING CONSTRUCTION WORKS.
7. INSTALLATION OF MHS1 & MHS1A USING OPEN CUT TECHNIQUES (POTENTIALLY REQUIRING ROCK BREAKING)
8. INSTALLATION OF 450mmØ SEWER BETWEEN MHS1 AND MHS2 USING OPEN CUT TECHNIQUES AND REINSTATEMENT OF TRENCH.
9. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
10. REINSTATEMENT, LANDSCAPING AND BOUNDARY TREATMENT OF ALPS SWO SITE.
11. ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
  - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
  - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.
12. REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION WORKS.

**INDICATIVE WORKS SCHEDULE FOR WORKING AREA S2**

1. CONSTRUCT SITE ACCESS.
2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS, EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION.
3. INSTALLATION OF MHS2, MHS3 AND MHS4 USING OPEN CUT TECHNIQUES (POTENTIALLY REQUIRING ROCK BREAKING).
4. INSTALLATION OF 450mmØ AND 525mmØ SEWER BETWEEN MHS2 AND MHS4 USING OPEN CUT TECHNIQUES (POTENTIALLY REQUIRING ROCK BREAKING)
5. REINSTATEMENT OF TRENCH.
6. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
7. ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
  - CONSTRUCTION OF MHS2A, MHS3A & MHS4A ON EXISTING FOUL SEWER NETWORK.
  - DIVERSION OF FLOWS TO NEW FOUL SEWER NETWORK.
  - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.
8. REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION WORKS.

LOCATION PLAN SCALE: 1:250 @ A1

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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client  
**UISCE**  
 ÉIREANN : IRISH WATER

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foresore Consent Application)

Scale at A1  
 AS SHOWN

Discipline  
 CIVIL

Drawing Title  
**WORKING AREAS LAYOUT PLAN**  
 1 OF 16

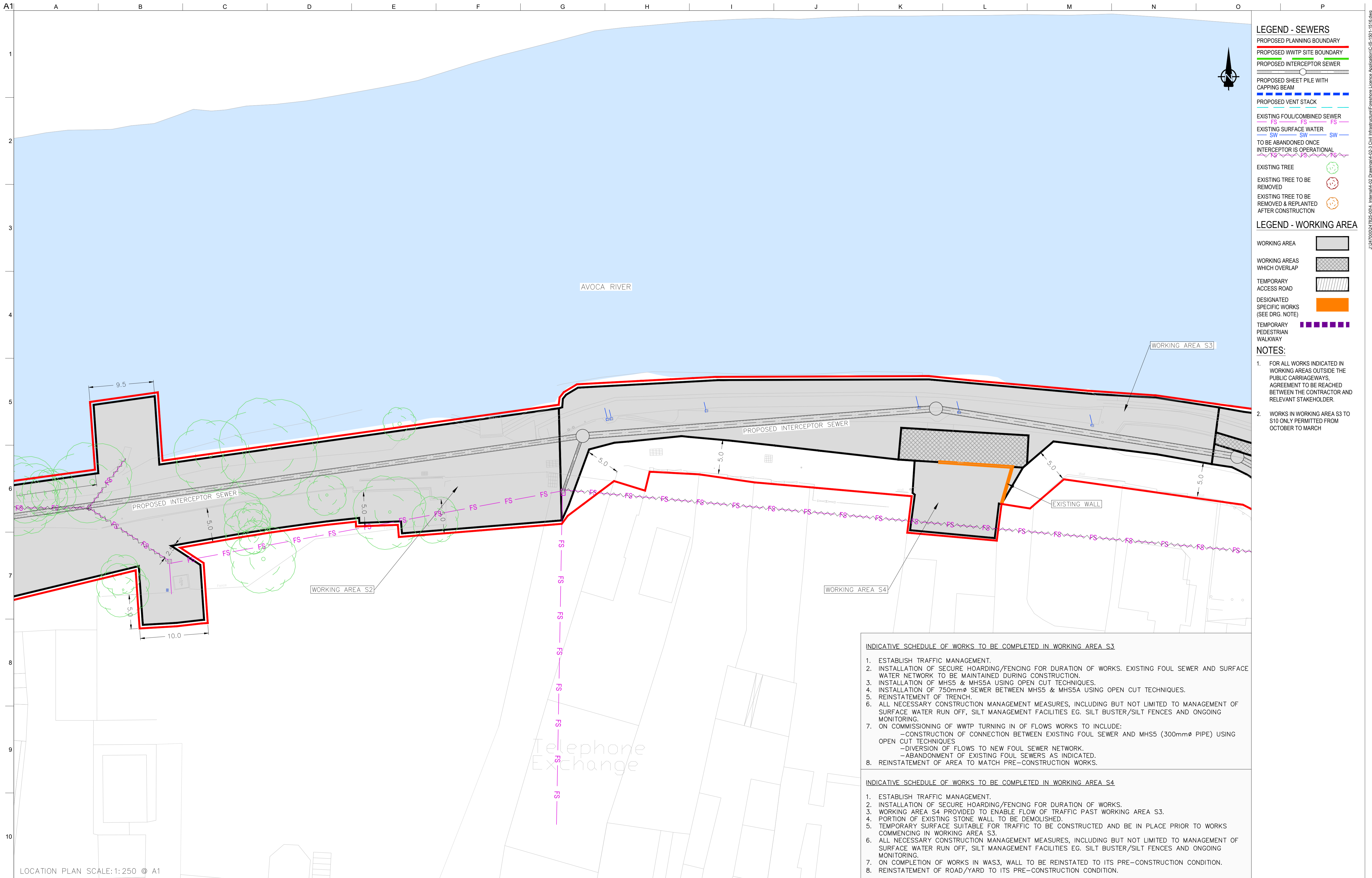
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**FORESHORE CONSENT**

Job No  
 247825-00

Drawing No  
 C-IS-1501

Issue  
 I01

ARUP BYRNE LOOBY  
 CLANCY MOORE ARCHITECTS



- LEGEND - SEWERS**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION
- LEGEND - WORKING AREA**
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - TEMPORARY PEDESTRIAN WALKWAY

- NOTES:**
1. FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.
  2. WORKS IN WORKING AREA S3 TO S10 ONLY PERMITTED FROM OCTOBER TO MARCH

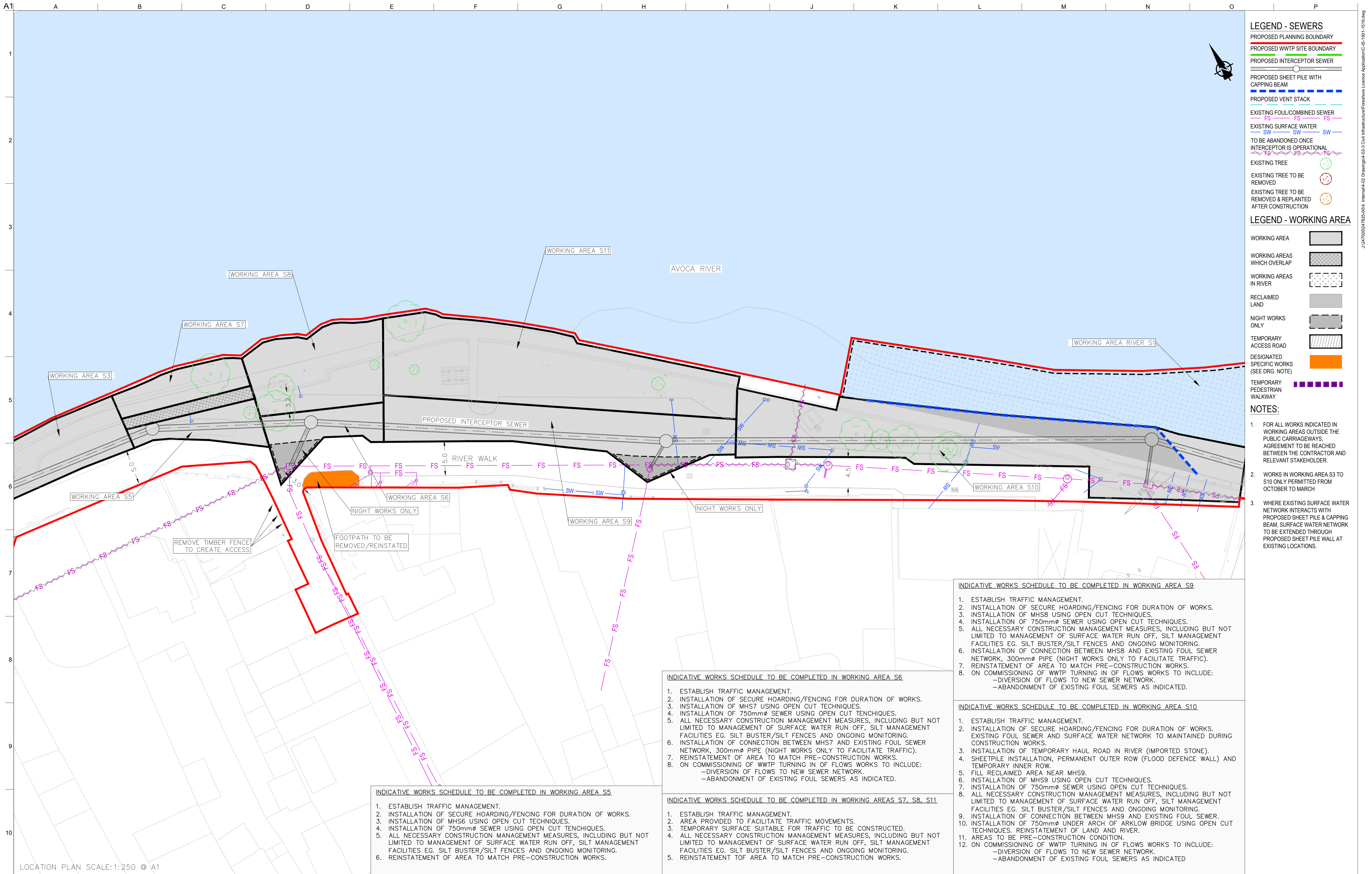
- INDICATIVE SCHEDULE OF WORKS TO BE COMPLETED IN WORKING AREA S3**
1. ESTABLISH TRAFFIC MANAGEMENT.
  2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION.
  3. INSTALLATION OF MHS5 & MHS5A USING OPEN CUT TECHNIQUES.
  4. INSTALLATION OF 750mmØ SEWER BETWEEN MHS5 & MHS5A USING OPEN CUT TECHNIQUES.
  5. REINSTATEMENT OF TRENCH.
  6. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  7. ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
    - CONSTRUCTION OF CONNECTION BETWEEN EXISTING FOUL SEWER AND MHS5 (300mmØ PIPE) USING OPEN CUT TECHNIQUES
    - DIVERSION OF FLOWS TO NEW FOUL SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.
  8. REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION WORKS.

- INDICATIVE SCHEDULE OF WORKS TO BE COMPLETED IN WORKING AREA S4**
1. ESTABLISH TRAFFIC MANAGEMENT.
  2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS.
  3. WORKING AREA S4 PROVIDED TO ENABLE FLOW OF TRAFFIC PAST WORKING AREA S3.
  4. PORTION OF EXISTING STONE WALL TO BE DEMOLISHED.
  5. TEMPORARY SURFACE SUITABLE FOR TRAFFIC TO BE CONSTRUCTED AND BE IN PLACE PRIOR TO WORKS COMMENCING IN WORKING AREA S3.
  6. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  7. ON COMPLETION OF WORKS IN WAS3, WALL TO BE REINSTATED TO ITS PRE-CONSTRUCTION CONDITION.
  8. REINSTATEMENT OF ROAD/YARD TO ITS PRE-CONSTRUCTION CONDITION.

LOCATION PLAN SCALE: 1:250 @ A1

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- ### LEGEND - SEWERS
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

- ### LEGEND - WORKING AREA
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - WORKING AREAS IN RIVER
  - RECLAIMED LAND
  - NIGHT WORKS ONLY
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - TEMPORARY PEDESTRIAN WALKWAY

- ### NOTES:
1. FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.
  2. WORKS IN WORKING AREA S3 TO S10 ONLY PERMITTED FROM OCTOBER TO MARCH.
  3. WHERE EXISTING SURFACE WATER NETWORK INTERACTS WITH PROPOSED SHEET PILE & CAPPING BEAM, SURFACE WATER NETWORK TO BE EXTENDED THROUGH PROPOSED SHEET PILE WALL AT EXISTING LOCATIONS.

- #### INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA S9
1. ESTABLISH TRAFFIC MANAGEMENT.
  2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS.
  3. INSTALLATION OF MHS8 USING OPEN CUT TECHNIQUES.
  4. INSTALLATION OF 750mmØ SEWER USING OPEN CUT TECHNIQUES.
  5. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  6. INSTALLATION OF CONNECTION BETWEEN MHS8 AND EXISTING FOUL SEWER NETWORK. 300mmØ PIPE (NIGHT WORKS ONLY TO FACILITATE TRAFFIC).
  7. REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION WORKS.
  8. ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
    - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

- #### INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA S6
1. ESTABLISH TRAFFIC MANAGEMENT.
  2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS.
  3. INSTALLATION OF MHS7 USING OPEN CUT TECHNIQUES.
  4. INSTALLATION OF 750mmØ SEWER USING OPEN CUT TECHNIQUES.
  5. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  6. INSTALLATION OF CONNECTION BETWEEN MHS7 AND EXISTING FOUL SEWER NETWORK. 300mmØ PIPE (NIGHT WORKS ONLY TO FACILITATE TRAFFIC).
  7. REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION WORKS.
  8. ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
    - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

- #### INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA S10
1. ESTABLISH TRAFFIC MANAGEMENT.
  2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO MAINTAINED DURING CONSTRUCTION WORKS.
  3. INSTALLATION OF TEMPORARY HAUL ROAD IN RIVER (IMPORTED STONE).
  4. SHEETPILE INSTALLATION, PERMANENT OUTER ROW (FLOOD DEFENCE WALL) AND TEMPORARY INNER ROW.
  5. FILL RECLAIMED AREA NEAR MHS9.
  6. INSTALLATION OF MHS9 USING OPEN CUT TECHNIQUES.
  7. INSTALLATION OF 750mmØ SEWER USING OPEN CUT TECHNIQUES.
  8. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  9. INSTALLATION OF CONNECTION BETWEEN MHS9 AND EXISTING FOUL SEWER.
  10. INSTALLATION OF 750mmØ UNDER ARCH OF ARKLOW BRIDGE USING OPEN CUT TECHNIQUES. REINSTATEMENT OF LAND AND RIVER.
  11. AREAS TO BE PRE-CONSTRUCTION CONDITION.
  12. ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
    - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

- #### INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA S5
1. ESTABLISH TRAFFIC MANAGEMENT.
  2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS.
  3. INSTALLATION OF MHS6 USING OPEN CUT TECHNIQUES.
  4. INSTALLATION OF 750mmØ SEWER USING OPEN CUT TECHNIQUES.
  5. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  6. REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION WORKS.

- #### INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREAS S7, S8, S11
1. ESTABLISH TRAFFIC MANAGEMENT.
  2. AREA PROVIDED TO FACILITATE TRAFFIC MOVEMENTS.
  3. TEMPORARY SURFACE SUITABLE FOR TRAFFIC TO BE CONSTRUCTED.
  4. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  5. REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION WORKS.

LOCATION PLAN SCALE: 1:250 @ A1

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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client: **UISCE** EIREANN : IRISH WATER

Job Title: **ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1: AS SHOWN

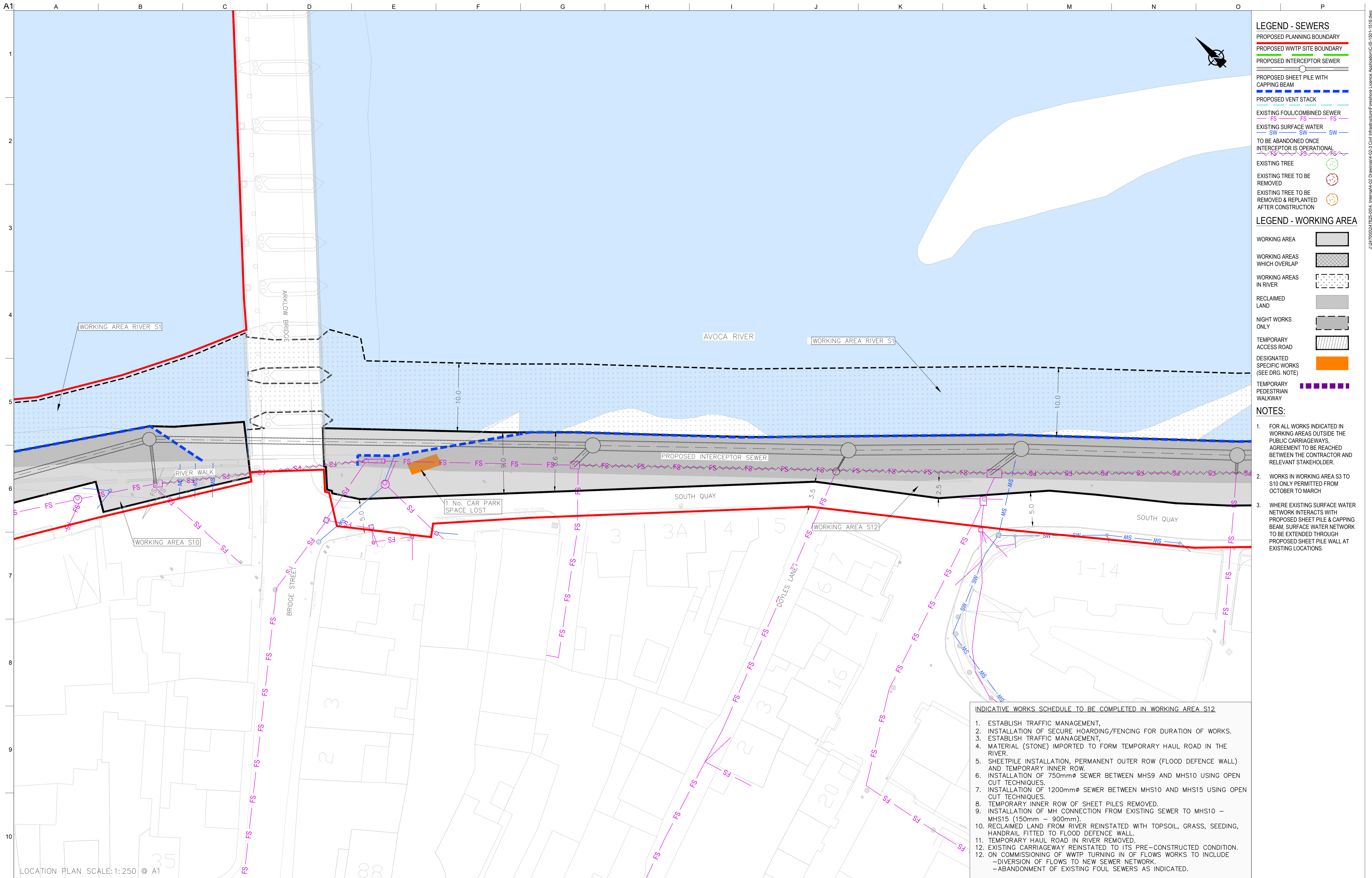
Discipline: CIVIL

Drawing Title: **WORKING AREAS LAYOUT PLAN 3 OF 16**

Drawing Status: **FORESHORE CONSENT**

Job No: 247825-00 | Drawing No: C-IS-1503 | Issue: I01

ARUP BYRNE LOOBY  
CLANCY MOORE ARCHITECTS



- LEGEND - SEWERS**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION
- LEGEND - WORKING AREA**
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - WORKING AREAS IN RIVER
  - RECLAIMED LAND
  - NIGHT WORKS ONLY
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - TEMPORARY PEDESTRIAN WALKWAY
- NOTES:**
1. FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.
  2. WORKS IN WORKING AREA S3 TO S10 ONLY PERMITTED FROM OCTOBER TO MARCH.
  3. WHERE EXISTING SURFACE WATER NETWORK INTERACTS WITH PROPOSED SHEET PILE & CAPPING BEAM, SURFACE WATER NETWORK TO BE EXTENDED THROUGH PROPOSED SHEET PILE WALL AT EXISTING LOCATIONS.

- INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA S12**
1. ESTABLISH TRAFFIC MANAGEMENT.
  2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS.
  3. ESTABLISH TRAFFIC MANAGEMENT.
  4. MATERIAL (STONE) IMPORTED TO FORM TEMPORARY HAUL ROAD IN THE RIVER.
  5. SHEETPILE INSTALLATION, PERMANENT OUTER ROW (FLOOD DEFENCE WALL) AND TEMPORARY INNER ROW.
  6. INSTALLATION OF 750mm $\phi$  SEWER BETWEEN MHS9 AND MHS10 USING OPEN CUT TECHNIQUES.
  7. INSTALLATION OF 1200mm $\phi$  SEWER BETWEEN MHS10 AND MHS15 USING OPEN CUT TECHNIQUES.
  8. TEMPORARY INNER ROW OF SHEET PILES REMOVED.
  9. INSTALLATION OF MH CONNECTION FROM EXISTING SEWER TO MHS10 - MHS15 (150mm - 900mm).
  10. RECLAIMED LAND FROM RIVER REINSTATED WITH TOPSOIL, GRASS, SEEDING, HANDRAIL FITTED TO FLOOD DEFENCE WALL.
  11. TEMPORARY HAUL ROAD IN RIVER REMOVED.
  12. EXISTING CARRIAGEWAY REINSTATED TO ITS PRE-CONSTRUCTED CONDITION.
  - ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE
    - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

LOCATION PLAN SCALE: 1:250 © A1

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OSi Sheet numbers:  
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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client  
**UISCE**  
 ÉIREANN : IRISH WATER

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foresore Consent Application)

Scale at A1  
 AS SHOWN

Discipline  
 CIVIL

ARUP BYRNELOOBY

CLANCY MOORE ARCHITECTS

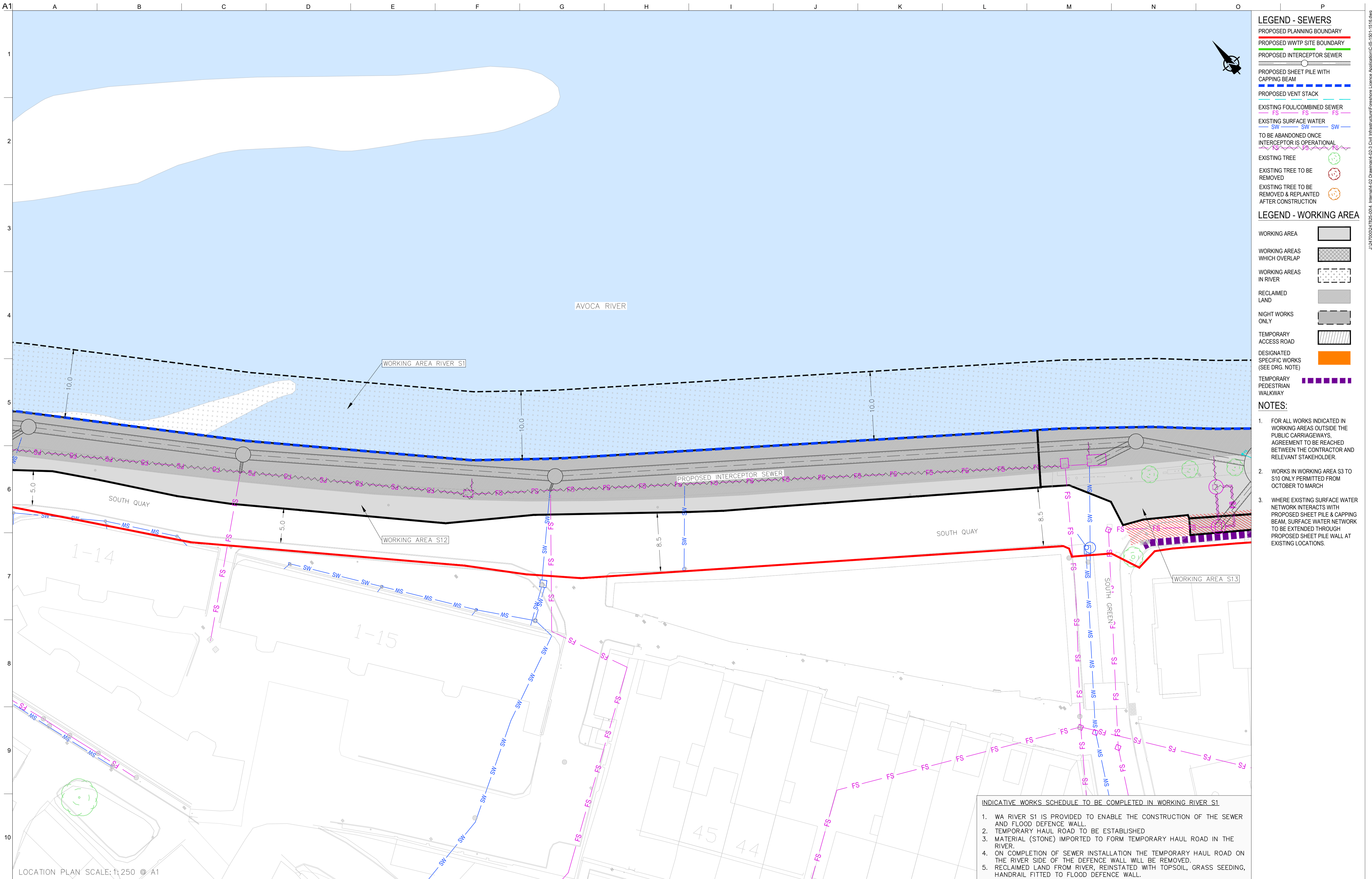
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**WORKING AREAS LAYOUT PLAN**  
 4 OF 16

Drawing Status  
**FORESHORE CONSENT**

Job No  
 247825-00

Drawing No  
 C-IS-1504

Issue  
 I01



- LEGEND - SEWERS**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

- LEGEND - WORKING AREA**
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - WORKING AREAS IN RIVER
  - RECLAIMED LAND
  - NIGHT WORKS ONLY
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - TEMPORARY PEDESTRIAN WALKWAY

- NOTES:**
1. FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.
  2. WORKS IN WORKING AREA S3 TO S10 ONLY PERMITTED FROM OCTOBER TO MARCH
  3. WHERE EXISTING SURFACE WATER NETWORK INTERACTS WITH PROPOSED SHEET PILE & CAPPING BEAM, SURFACE WATER NETWORK TO BE EXTENDED THROUGH PROPOSED SHEET PILE WALL AT EXISTING LOCATIONS.

- INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING RIVER S1**
1. WA RIVER S1 IS PROVIDED TO ENABLE THE CONSTRUCTION OF THE SEWER AND FLOOD DEFENCE WALL.
  2. TEMPORARY HAUL ROAD TO BE ESTABLISHED.
  3. MATERIAL (STONE) IMPORTED TO FORM TEMPORARY HAUL ROAD IN THE RIVER.
  4. ON COMPLETION OF SEWER INSTALLATION THE TEMPORARY HAUL ROAD ON THE RIVER SIDE OF THE DEFENCE WALL WILL BE REMOVED.
  5. RECLAIMED LAND FROM RIVER, REINSTATED WITH TOPSOIL, GRASS SEEDING, HANDRAIL FITTED TO FLOOD DEFENCE WALL.

LOCATION PLAN SCALE: 1:250 © A1

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Issue	Date	By	Chkd	Appd



Client  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foreshore Consent Application)

Scale at A1  
 AS SHOWN

Discipline  
 CIVIL



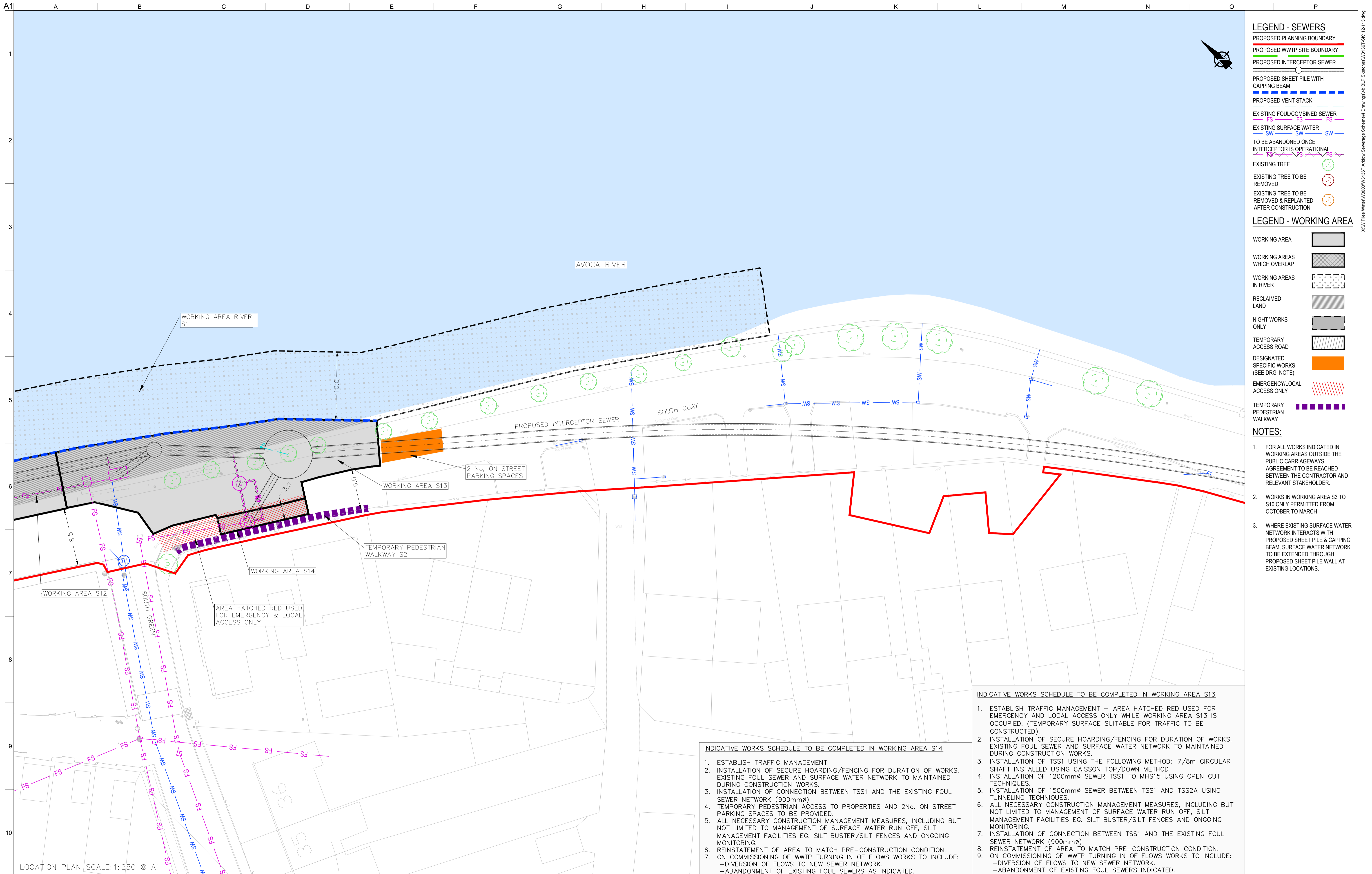
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**WORKING AREAS LAYOUT PLAN**  
 5 OF 16

Drawing Status  
**FORESHORE CONSENT**

Job No  
 247825-00

Drawing No  
 C-IS-1505

Issue  
 I01



- ### LEGEND - SEWERS
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

- ### LEGEND - WORKING AREA
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - WORKING AREAS IN RIVER
  - RECLAIMED LAND
  - NIGHT WORKS ONLY
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - EMERGENCY/LOCAL ACCESS ONLY
  - TEMPORARY PEDESTRIAN WALKWAY

- ### NOTES:
1. FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.
  2. WORKS IN WORKING AREA S3 TO S10 ONLY PERMITTED FROM OCTOBER TO MARCH
  3. WHERE EXISTING SURFACE WATER NETWORK INTERACTS WITH PROPOSED SHEET PILE & CAPPING BEAM, SURFACE WATER NETWORK TO BE EXTENDED THROUGH PROPOSED SHEET PILE WALL AT EXISTING LOCATIONS.

- #### INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA S14
1. ESTABLISH TRAFFIC MANAGEMENT
  2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO MAINTAINED DURING CONSTRUCTION WORKS.
  3. INSTALLATION OF CONNECTION BETWEEN TSS1 AND THE EXISTING FOUL SEWER NETWORK (900mm $\phi$ )
  4. TEMPORARY PEDESTRIAN ACCESS TO PROPERTIES AND 2No. ON STREET PARKING SPACES TO BE PROVIDED.
  5. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  6. REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.
  7. ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
    - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

- #### INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA S13
1. ESTABLISH TRAFFIC MANAGEMENT – AREA HATCHED RED USED FOR EMERGENCY AND LOCAL ACCESS ONLY WHILE WORKING AREA S13 IS OCCUPIED. (TEMPORARY SURFACE SUITABLE FOR TRAFFIC TO BE CONSTRUCTED).
  2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO MAINTAINED DURING CONSTRUCTION WORKS.
  3. INSTALLATION OF TSS1 USING THE FOLLOWING METHOD: 7/8m CIRCULAR SHAFT INSTALLED USING CAISSON TOP/DOWN METHOD
  4. INSTALLATION OF 1200mm $\phi$  SEWER TSS1 TO MHS15 USING OPEN CUT TECHNIQUES.
  5. INSTALLATION OF 1500mm $\phi$  SEWER BETWEEN TSS1 AND TSS2A USING TUNNELING TECHNIQUES.
  6. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  7. INSTALLATION OF CONNECTION BETWEEN TSS1 AND THE EXISTING FOUL SEWER NETWORK (900mm $\phi$ )
  8. REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.
  9. ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
    - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS INDICATED.

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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client  
**UISCE**  
 ÉIREANN : IRISH WATER

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foresore Consent Application)

Scale at A1  
 AS SHOWN

Discipline  
 CIVIL

**ARUP BYRNELOOBY**

**CLANCY MOORE ARCHITECTS**

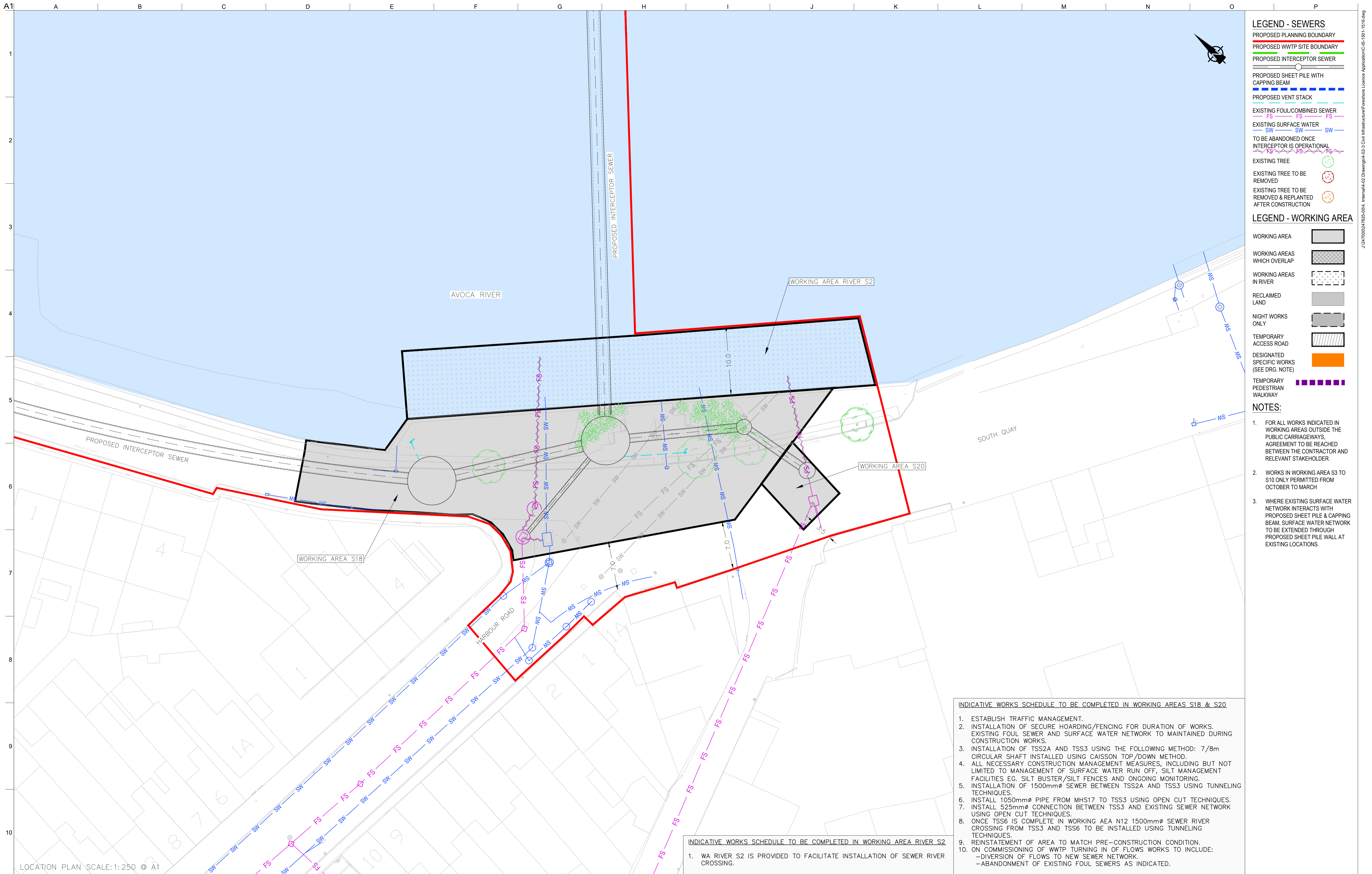
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**WORKING AREAS LAYOUT PLAN**  
 6 OF 16

Drawing Status  
**FORESHORE CONSENT**

Job No  
 247825-00

Drawing No  
 C-IS-1506

Issue  
 I01



- LEGEND - SEWERS**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION
- LEGEND - WORKING AREA**
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - WORKING AREAS IN RIVER
  - RECLAIMED LAND
  - NIGHT WORKS ONLY
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - TEMPORARY PEDESTRIAN WALKWAY

- NOTES:**
1. FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.
  2. WORKS IN WORKING AREA S3 TO S10 ONLY PERMITTED FROM OCTOBER TO MARCH
  3. WHERE EXISTING SURFACE WATER NETWORK INTERACTS WITH PROPOSED SHEET PILE & CAPPING BEAM, SURFACE WATER NETWORK TO BE EXTENDED THROUGH PROPOSED SHEET PILE WALL AT EXISTING LOCATIONS.

- INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREAS S18 & S20**
1. ESTABLISH TRAFFIC MANAGEMENT.
  2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO MAINTAINED DURING CONSTRUCTION WORKS.
  3. INSTALLATION OF TSS2A AND TSS3 USING THE FOLLOWING METHOD: 7/8m CIRCULAR SHAFT INSTALLED USING CAISSON TOP/DOWN METHOD.
  4. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  5. INSTALLATION OF 1500mmØ SEWER BETWEEN TSS2A AND TSS3 USING TUNNELING TECHNIQUES.
  6. INSTALL 1050mmØ PIPE FROM MHS17 TO TSS3 USING OPEN CUT TECHNIQUES.
  7. INSTALL 525mmØ CONNECTION BETWEEN TSS3 AND EXISTING SEWER NETWORK USING OPEN CUT TECHNIQUES.
  8. ONCE TSS6 IS COMPLETE IN WORKING AEA N12 1500mmØ SEWER RIVER CROSSING FROM TSS3 AND TSS6 TO BE INSTALLED USING TUNNELING TECHNIQUES.
  9. REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.
  10. ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
    - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

- INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA RIVER S2**
1. WA RIVER S2 IS PROVIDED TO FACILITATE INSTALLATION OF SEWER RIVER CROSSING.

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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client  
**UISCE**  
 ÉIREANN : IRISH WATER

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foresore Consent Application)

Scale at A1 AS SHOWN

Discipline CIVIL

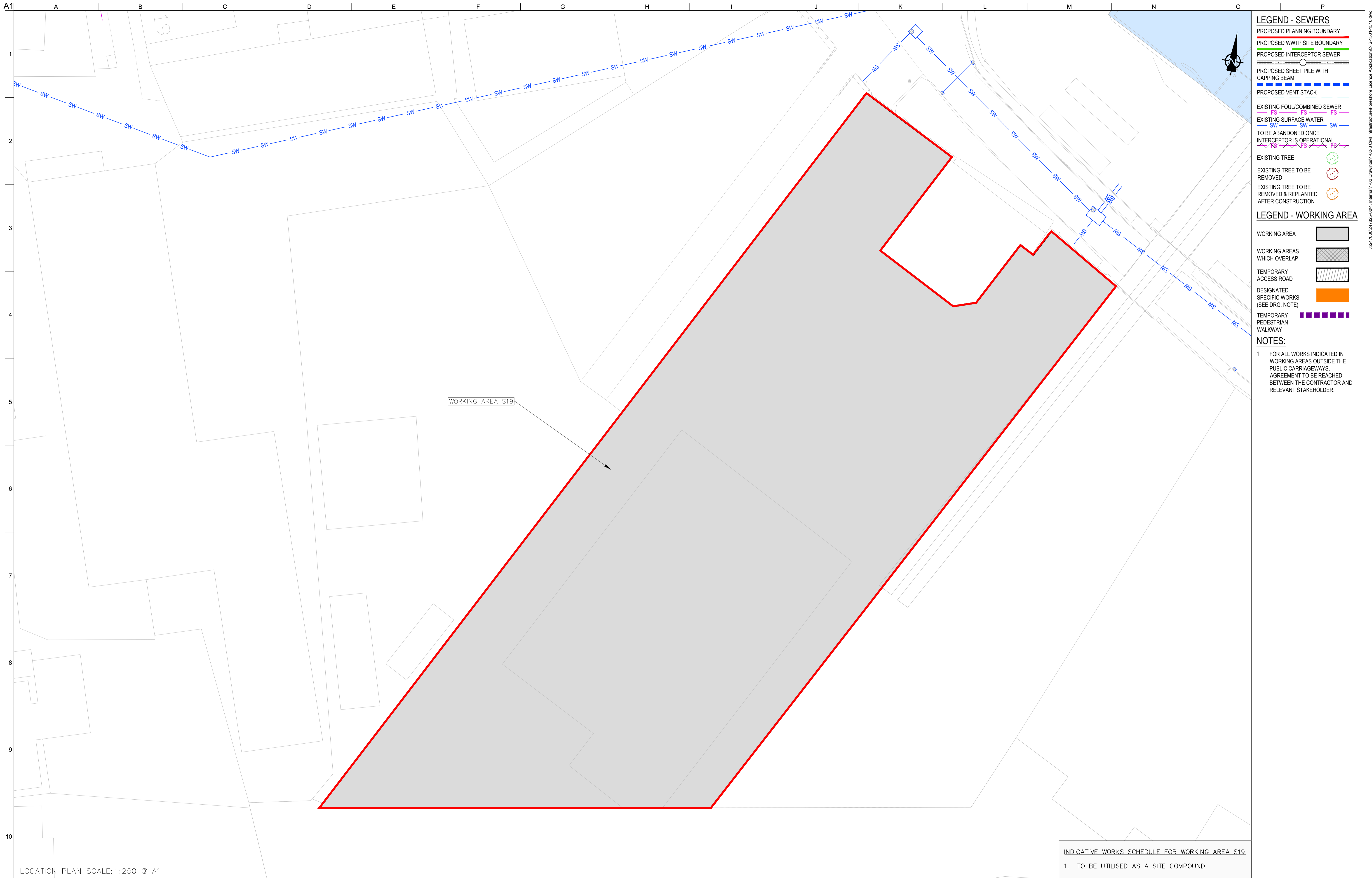
**ARUP BYRNELOOBY**

**CLANCY MOORE ARCHITECTS**

Drawing Title  
**WORKING AREAS LAYOUT PLAN**  
 7 OF 16

Drawing Status  
**FORESHORE CONSENT**

Job No 247825-00 Drawing No C-IS-1507 Issue I01



**LEGEND - SEWERS**

- PROPOSED PLANNING BOUNDARY
- PROPOSED WWTP SITE BOUNDARY
- PROPOSED INTERCEPTOR SEWER
- PROPOSED SHEET PILE WITH CAPPING BEAM
- PROPOSED VENT STACK
- EXISTING FOUL/COMBINED SEWER
- EXISTING SURFACE WATER
- TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

**LEGEND - WORKING AREA**

- WORKING AREA
- WORKING AREAS WHICH OVERLAP
- TEMPORARY ACCESS ROAD
- DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
- TEMPORARY PEDESTRIAN WALKWAY

**NOTES:**

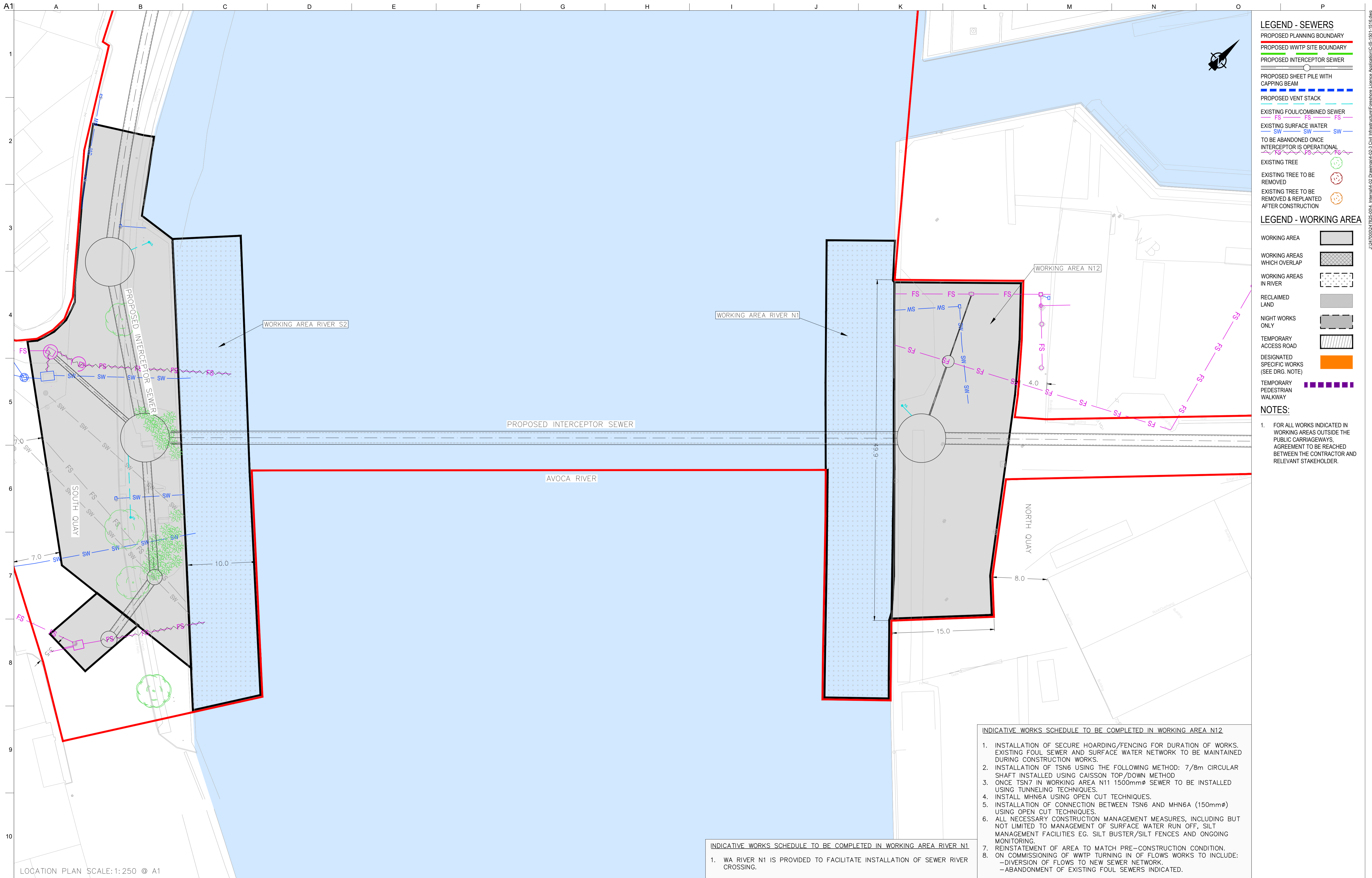
- FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.

WORKING AREA S19

INDICATIVE WORKS SCHEDULE FOR WORKING AREA S19  
 1. TO BE UTILISED AS A SITE COMPOUND.

LOCATION PLAN SCALE: 1:250 @ A1

<p>Ordnance Survey Ireland Licence No. EN 0083318          © Ordnance Survey Ireland/ Government of Ireland</p> <p>OSi Sheet numbers:          4428-A, 4428-07, 4428-11, 4428-12, 4428-16 &amp; 4428-17</p>		<p>Client</p>	<p>Job Title  <b>ARKLOW WASTEWATER TREATMENT PLANT PROJECT</b>          (Foreshore Consent Application)</p> <p>Scale at A1          AS SHOWN</p> <p>Discipline          CIVIL</p>	<p>CLANCY MOORE ARCHITECTS</p>	<p>Drawing Title  <b>WORKING AREAS LAYOUT PLAN</b>          8 OF 16</p> <p>Drawing Status  <b>FORESHORE CONSENT</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Job No 247825-00</td> <td style="width: 50%;">Drawing No C-IS-1508</td> </tr> <tr> <td colspan="2" style="text-align: right;">Issue <b>101</b></td> </tr> </table>	Job No 247825-00	Drawing No C-IS-1508	Issue <b>101</b>	
Job No 247825-00	Drawing No C-IS-1508								
Issue <b>101</b>									



- LEGEND - SEWERS**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

- LEGEND - WORKING AREA**
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - WORKING AREAS IN RIVER
  - RECLAIMED LAND
  - NIGHT WORKS ONLY
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - TEMPORARY PEDESTRIAN WALKWAY

**NOTES:**

- FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.

**INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N12**

- INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
- INSTALLATION OF TSN6 USING THE FOLLOWING METHOD: 7/8m CIRCULAR SHAFT INSTALLED USING CAISSON TOP/DOWN METHOD
- ONCE TSN7 IN WORKING AREA N11 1500mmØ SEWER TO BE INSTALLED USING TUNNELING TECHNIQUES.
- INSTALL MHN6A USING OPEN CUT TECHNIQUES.
- INSTALLATION OF CONNECTION BETWEEN TSN6 AND MHN6A (150mmØ) USING OPEN CUT TECHNIQUES.
- ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
- REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.
- ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
  - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
  - ABANDONMENT OF EXISTING FOUL SEWERS INDICATED.

**INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA RIVER N1**

- WA RIVER N1 IS PROVIDED TO FACILITATE INSTALLATION OF SEWER RIVER CROSSING.

LOCATION PLAN SCALE: 1:250 @ A1

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 OSi Sheet numbers:  
 4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17



Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Client  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foresore Consent Application)

Scale at A1 AS SHOWN

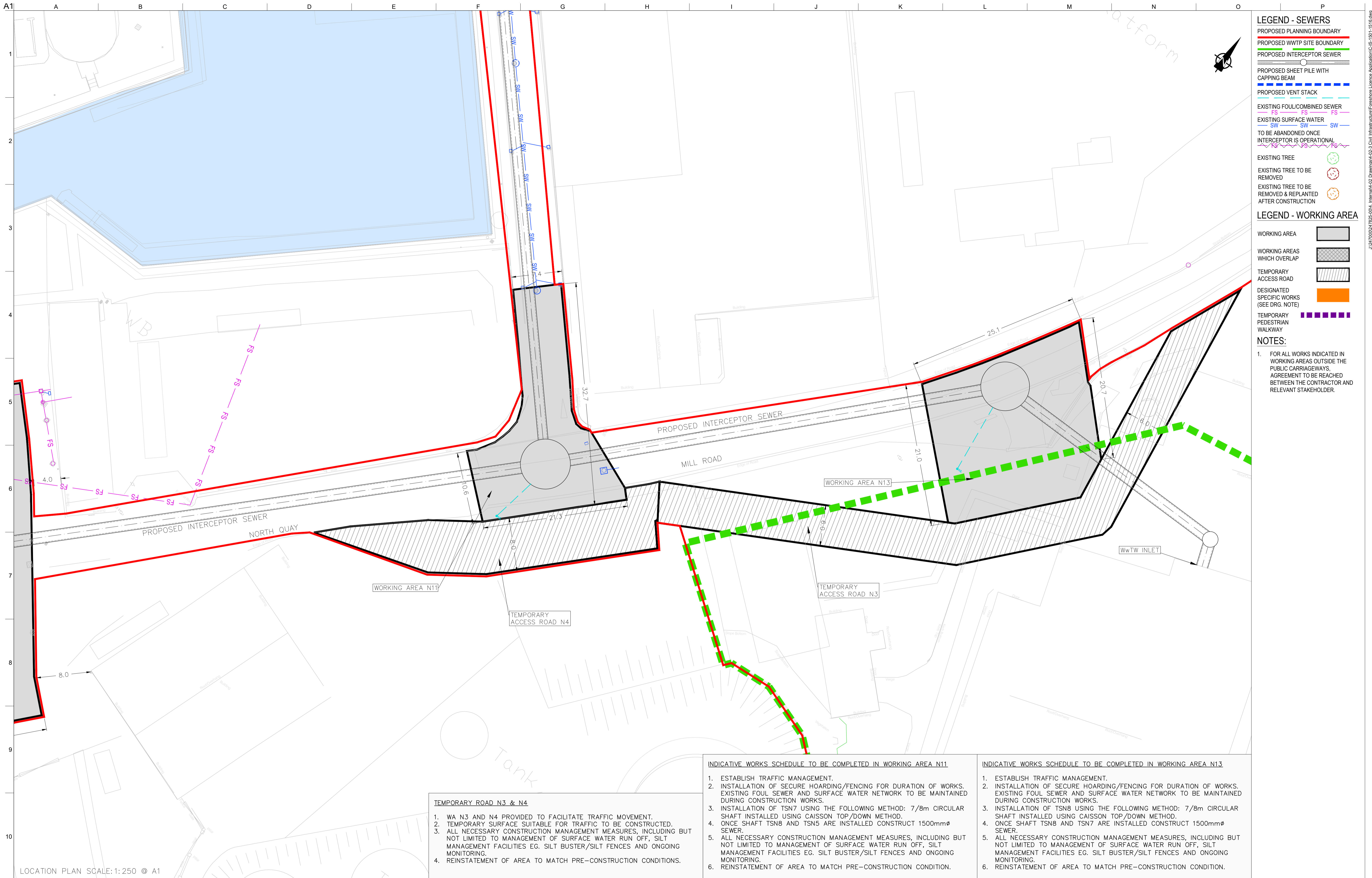
Discipline CIVIL



Drawing Title  
**WORKING AREAS LAYOUT PLAN**  
 9 OF 16

Drawing Status  
**FORESHORE CONSENT**

Job No 247825-00 Drawing No C-IS-1509 Issue I01



- LEGEND - SEWERS**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

- LEGEND - WORKING AREA**
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - TEMPORARY PEDESTRIAN WALKWAY

**NOTES:**

- FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.

- TEMPORARY ROAD N3 & N4**
- WA N3 AND N4 PROVIDED TO FACILITATE TRAFFIC MOVEMENT.
  - TEMPORARY SURFACE SUITABLE FOR TRAFFIC TO BE CONSTRUCTED.
  - ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  - REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITIONS.

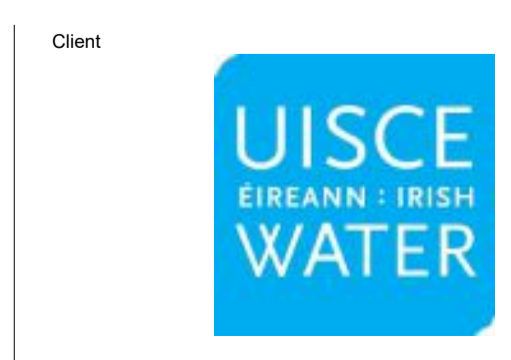
- INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N11**
- ESTABLISH TRAFFIC MANAGEMENT.
  - INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
  - INSTALLATION OF TSN7 USING THE FOLLOWING METHOD: 7/8m CIRCULAR SHAFT INSTALLED USING CAISSON TOP/DOWN METHOD.
  - ONCE SHAFT TSN8 AND TSN5 ARE INSTALLED CONSTRUCT 1500mmØ SEWER.
  - ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  - REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.

- INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N13**
- ESTABLISH TRAFFIC MANAGEMENT.
  - INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
  - INSTALLATION OF TSN8 USING THE FOLLOWING METHOD: 7/8m CIRCULAR SHAFT INSTALLED USING CAISSON TOP/DOWN METHOD.
  - ONCE SHAFT TSN8 AND TSN7 ARE INSTALLED CONSTRUCT 1500mmØ SEWER.
  - ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  - REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.

LOCATION PLAN SCALE: 1:250 @ A1

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 OSi Sheet numbers:  
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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Client  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foreshore Consent Application)

Scale at A1 AS SHOWN

Discipline CIVIL

**ARUP BYRNELOOBY**

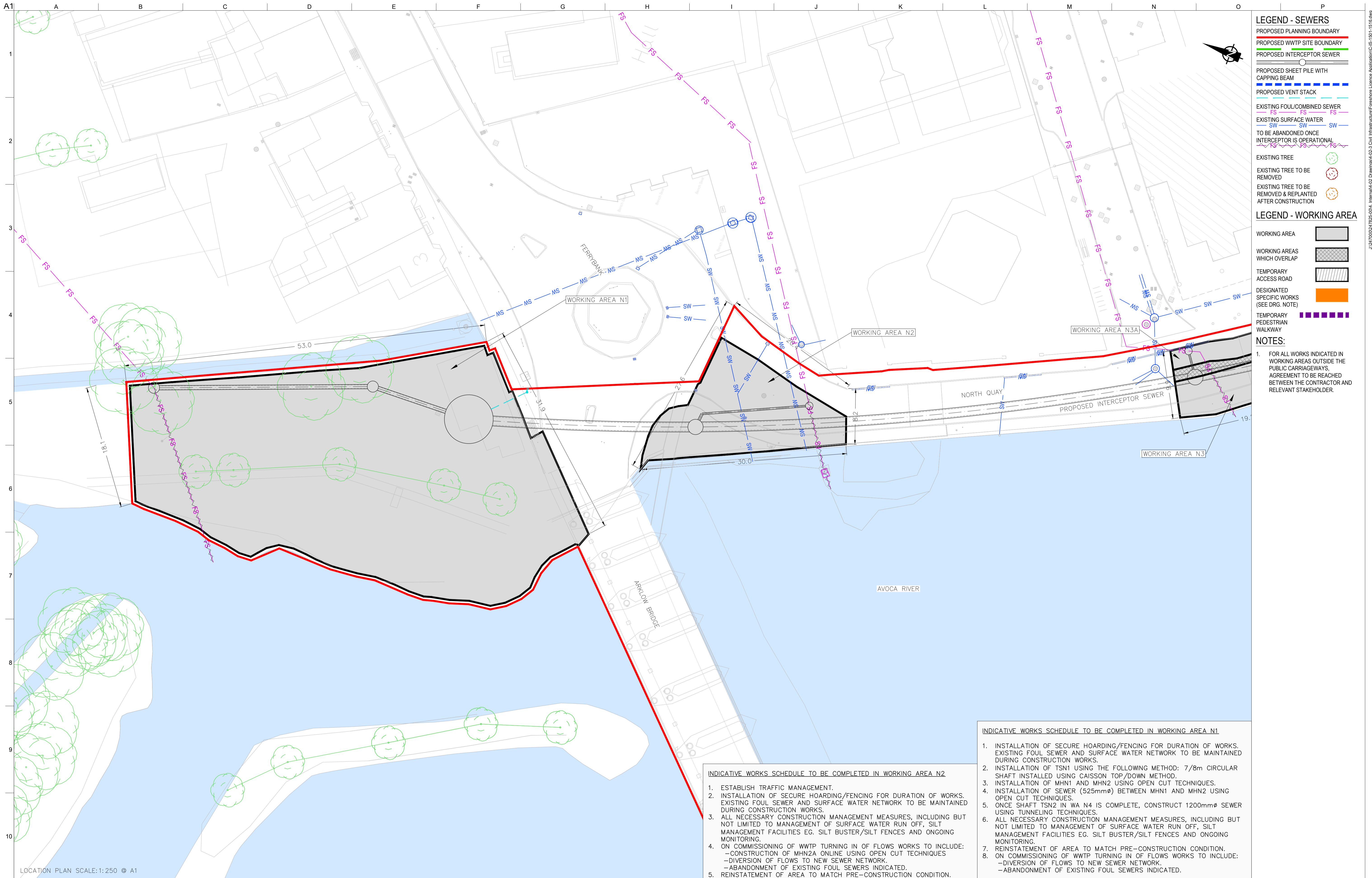
**CLANCY MOORE ARCHITECTS**

Drawing Title  
**WORKING AREAS LAYOUT PLAN**  
 10 OF 16

Drawing Status  
**FORESHORE CONSENT**

Job No 247825-00 Drawing No C-IS-1510 Issue I01





- LEGEND - SEWERS**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

- LEGEND - WORKING AREA**
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - TEMPORARY PEDESTRIAN WALKWAY

**NOTES:**

- FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.

**INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N1**

- INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
- INSTALLATION OF TSN1 USING THE FOLLOWING METHOD: 7/8m CIRCULAR SHAFT INSTALLED USING CAISSON TOP/DOWN METHOD.
- INSTALLATION OF MHN1 AND MHN2 USING OPEN CUT TECHNIQUES.
- INSTALLATION OF SEWER (525mm $\phi$ ) BETWEEN MHN1 AND MHN2 USING OPEN CUT TECHNIQUES.
- ONCE SHAFT TSN2 IN WA N4 IS COMPLETE, CONSTRUCT 1200mm $\phi$  SEWER USING TUNNELING TECHNIQUES.
- ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
- REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.
- ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
  - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
  - ABANDONMENT OF EXISTING FOUL SEWERS INDICATED.

**INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N2**

- ESTABLISH TRAFFIC MANAGEMENT.
- INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
- ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
- ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
  - CONSTRUCTION OF MHN2A ONLINE USING OPEN CUT TECHNIQUES
  - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
  - ABANDONMENT OF EXISTING FOUL SEWERS INDICATED.
- REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.

LOCATION PLAN SCALE: 1:250 © A1

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OSi Sheet numbers:  
 4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Client  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foresore Consent Application)

Scale at A1 AS SHOWN

Discipline CIVIL

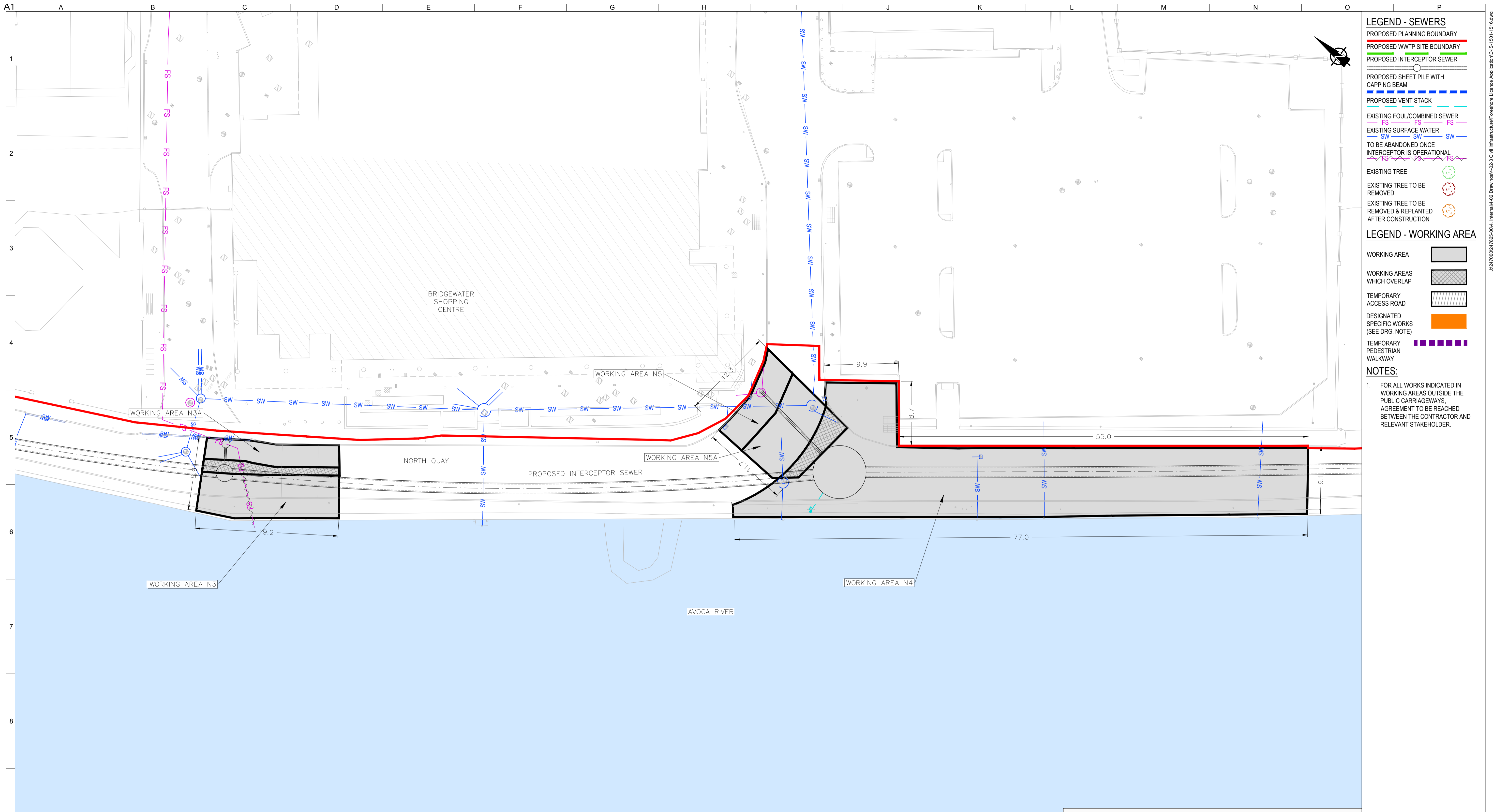
**ARUP BYRNELOOBY**

**CLANCY MOORE ARCHITECTS**

Drawing Title  
**WORKING AREAS LAYOUT PLAN**  
 11 OF 16

Drawing Status  
**FORESHORE CONSENT**

Job No 247825-00 Drawing No C-IS-1511 Issue I01



- LEGEND - SEWERS**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION
- LEGEND - WORKING AREA**
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - TEMPORARY PEDESTRIAN WALKWAY

**NOTES:**

- FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.

**INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N3 & N3A**

- ESTABLISH TRAFFIC MANAGEMENT.
- INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
- ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
- ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
  - CONSTRUCTION OF MHN4 ONLINE USING OPEN CUT TECHNIQUES
  - DIVERSION OF FLOWS TO NEW SEWER NETWORK
  - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.
- REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITIONS.

**INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N4**

- ESTABLISH TRAFFIC MANAGEMENT.
- INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
- INSTALLATION OF TSN2 USING THE FOLLOWING METHOD: 7/8m CIRCULAR SHAFT INSTALLED USING CAISSON TOP/DOWN METHOD.
- ON COMPLETION OF TSN3 IN WA N6 INSTALL 1200mmØ SEWER USING TUNNELING TECHNIQUES.
- ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
- REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITIONS.

**INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N5 & N5A**

- ESTABLISH TRAFFIC MANAGEMENT.
- INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
- INSTALL CONNECTION BETWEEN EXISTING FOUL TO TSN2 (300mmØ SEWER) USING OPEN CUT TECHNIQUES.
- ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
- REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITIONS.
- ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
  - DIVERSION OF FLOWS TO NEW SEWER NETWORK
  - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

LOCATION PLAN SCALE: 1:250 © A1

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OSi Sheet numbers:  
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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foresore Consent Application)

Scale at A1  
 AS SHOWN

Discipline  
 CIVIL

**CLANCY MOORE ARCHITECTS**

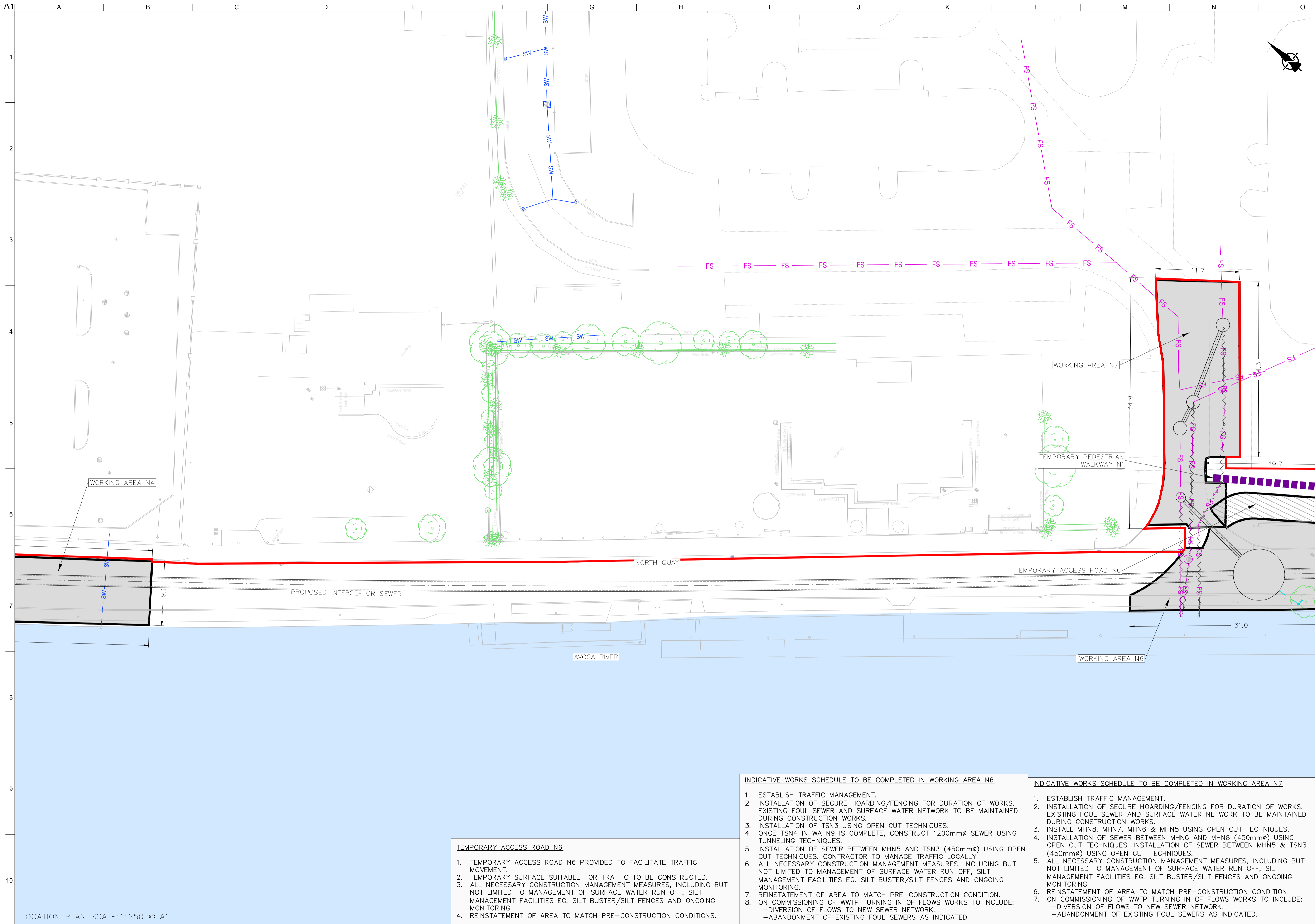
Drawing Title  
**WORKING AREAS LAYOUT PLAN**  
 12 OF 16

Drawing Status  
**FORESHORE CONSENT**

Job No  
 247825-00

Drawing No  
 C-IS-1512

Issue  
 I01



- LEGEND - SEWERS**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION
- LEGEND - WORKING AREA**
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - TEMPORARY PEDESTRIAN WALKWAY

**NOTES:**

- FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.

- TEMPORARY ACCESS ROAD N6**
- TEMPORARY ACCESS ROAD N6 PROVIDED TO FACILITATE TRAFFIC MOVEMENT.
  - TEMPORARY SURFACE SUITABLE FOR TRAFFIC TO BE CONSTRUCTED.
  - ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  - REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITIONS.

- INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N6**
- ESTABLISH TRAFFIC MANAGEMENT.
  - INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
  - INSTALLATION OF TSN3 USING OPEN CUT TECHNIQUES.
  - ONCE TSN4 IN WA N9 IS COMPLETE, CONSTRUCT 1200mmØ SEWER USING TUNNELING TECHNIQUES.
  - INSTALLATION OF SEWER BETWEEN MHN5 AND TSN3 (450mmØ) USING OPEN CUT TECHNIQUES. CONTRACTOR TO MANAGE TRAFFIC LOCALLY.
  - ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  - REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.
  - ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
    - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

- INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N7**
- ESTABLISH TRAFFIC MANAGEMENT.
  - INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
  - INSTALL MHN8, MHN7, MHN6 & MHN5 USING OPEN CUT TECHNIQUES.
  - INSTALLATION OF SEWER BETWEEN MHN6 AND MHN8 (450mmØ) USING OPEN CUT TECHNIQUES. INSTALLATION OF SEWER BETWEEN MHN5 & TSN3 (450mmØ) USING OPEN CUT TECHNIQUES.
  - ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  - REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.
  - ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
    - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

LOCATION PLAN SCALE: 1:250 @ A1

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Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client  
**UISCE**  
 ÉIREANN : IRISH WATER

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foreshore Consent Application)

Scale at A1  
 AS SHOWN

Discipline  
 CIVIL

**ARUP BYRNELOOBY**

**CLANCY MOORE ARCHITECTS**

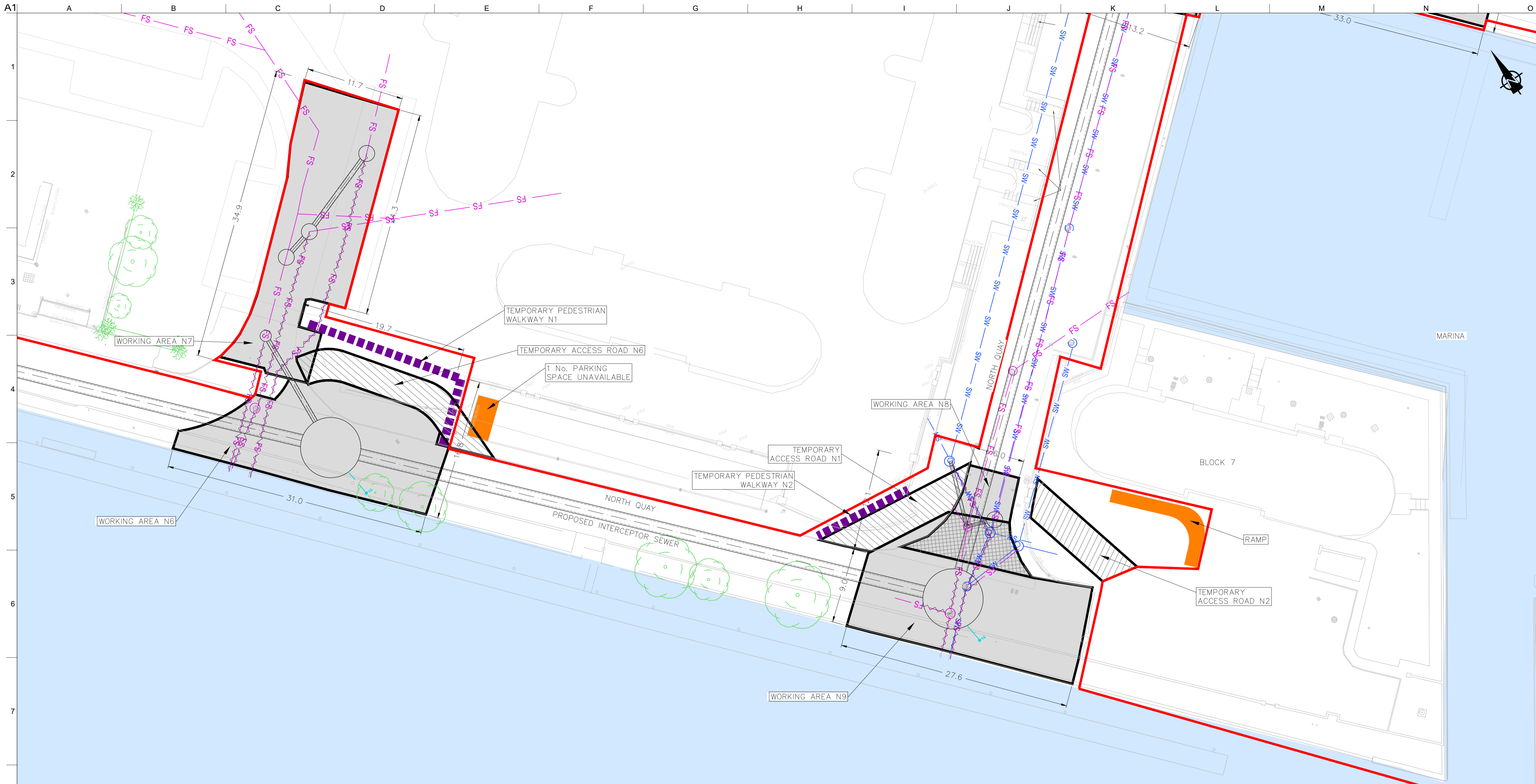
Drawing Title  
**WORKING AREAS LAYOUT PLAN**  
 13 OF 16

Drawing Status  
**FORESHORE CONSENT**

Job No  
 247825-00

Drawing No  
 C-IS-1513

Issue  
 I01



- LEGEND - SEWERS**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

- LEGEND - WORKING AREA**
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - TEMPORARY PEDESTRIAN WALKWAY

**NOTES:**

- FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.

LOCATION PLAN SCALE: 1:250 @ A1

- INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N8**
- ESTABLISH TRAFFIC MANAGEMENT.
  - INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
  - INSTALLATION OF MHN9 USING OPEN CUT TECHNIQUES.
  - INSTALLATION OF CONNECTION BETWEEN MHN9 AND TSN4 (300mm $\phi$ ) USING OPEN CUT TECHNIQUES (CONTRACTOR TO MANAGE TRAFFIC LOCALLY).
  - ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  - REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.
  - ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
    - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

- PEDESTRIAN WALKWAY N1 & N2**
- TEMPORARY PEDESTRIAN WALKWAY N1 & N2 PROVIDED TO FACILITATE PEDESTRIAN ACCESS.
  - TEMPORARY SURFACE SUITABLE FOR PEDESTRIAN TRAFFIC TO BE CONSTRUCTED.
  - ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  - REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITIONS.

- TEMPORARY ROAD N1, N2 & N6**
- TEMPORARY ACCESS ROAD N1, N2 & N6 PROVIDED TO FACILITATE TRAFFIC MOVEMENT.
  - TEMPORARY SURFACE SUITABLE FOR TRAFFIC TO BE CONSTRUCTED.
  - ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  - REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITIONS.

- INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N6**
- ESTABLISH TRAFFIC MANAGEMENT.
  - INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
  - INSTALLATION OF TSN3 USING OPEN CUT TECHNIQUES.
  - ONCE TSN4 IN WA N9 IS COMPLETE, CONSTRUCT 1200mm $\phi$  SEWER USING TUNNELING TECHNIQUES.
  - INSTALLATION OF SEWER BETWEEN MHN5 AND TSN3 (450mm $\phi$ ) USING OPEN CUT TECHNIQUES. CONTRACTOR TO MANAGE TRAFFIC LOCALLY.
  - ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  - REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.
  - ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
    - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

- INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N9**
- ESTABLISH TRAFFIC MANAGEMENT.
  - INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
  - INSTALLATION OF TSN4 USING THE FOLLOWING METHOD: 7/8m CIRCULAR SHAFT INSTALLED USING CAISSON TOP/DOWN METHOD.
  - ONCE TSN5 IN WA N10 IS COMPLETE, CONSTRUCT 1200mm $\phi$  SEWER USING TUNNELING TECHNIQUES.
  - INSTALLATION OF MHN9 USING OPEN CUT TECHNIQUES.
  - INSTALLATION OF CONNECTION BETWEEN MHN9 AND TSN4 (300mm $\phi$ ) USING OPEN CUT TECHNIQUES. CONTRACTOR TO MANAGE TRAFFIC LOCALLY.
  - ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
  - REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITION.
  - ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
    - DIVERSION OF FLOWS TO NEW SEWER NETWORK.
    - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

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 OSI Sheet numbers:  
 4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES

Client  
**UISCE**  
 ÉIREANN : IRISH WATER

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foreshore Consent Application)

Scale at A1 AS SHOWN

Discipline CIVIL

**ARUP BYRNE LOOBY**

**CLANCY MOORE ARCHITECTS**

Drawing Title  
**WORKING AREAS LAYOUT PLAN**  
 14 OF 16

Drawing Status  
**FORESHORE CONSENT**

Job No 247825-00 Drawing No C-IS-1514 Issue I01

**INDICATIVE WORKS SCHEDULE TO BE COMPLETED IN WORKING AREA N10**

1. ESTABLISH TRAFFIC MANAGEMENT.
2. INSTALLATION OF SECURE HOARDING/FENCING FOR DURATION OF WORKS. EXISTING FOUL SEWER AND SURFACE WATER NETWORK TO BE MAINTAINED DURING CONSTRUCTION WORKS.
3. INSTALLATION OF TSN5 USING THE FOLLOWING METHOD: 7/8m CIRCULAR SHAFT INSTALLED USING CAISSON TOP/DOWN METHOD.
4. ONCE TSN7 IS COMPLETE IN WAN11, CONSTRUCT 1200mmØ SEWER USING TUNNELING TECHNIQUES.
5. ALL NECESSARY CONSTRUCTION MANAGEMENT MEASURES, INCLUDING BUT NOT LIMITED TO MANAGEMENT OF SURFACE WATER RUN OFF, SILT MANAGEMENT FACILITIES EG. SILT BUSTER/SILT FENCES AND ONGOING MONITORING.
6. REINSTATEMENT OF AREA TO MATCH PRE-CONSTRUCTION CONDITIONS.
7. ON COMMISSIONING OF WWTP TURNING IN OF FLOWS WORKS TO INCLUDE:
  - DIVERSION OF FLOWS TO NEW SEWER NETWORK
  - ABANDONMENT OF EXISTING FOUL SEWERS AS INDICATED.

**LEGEND - SEWERS**

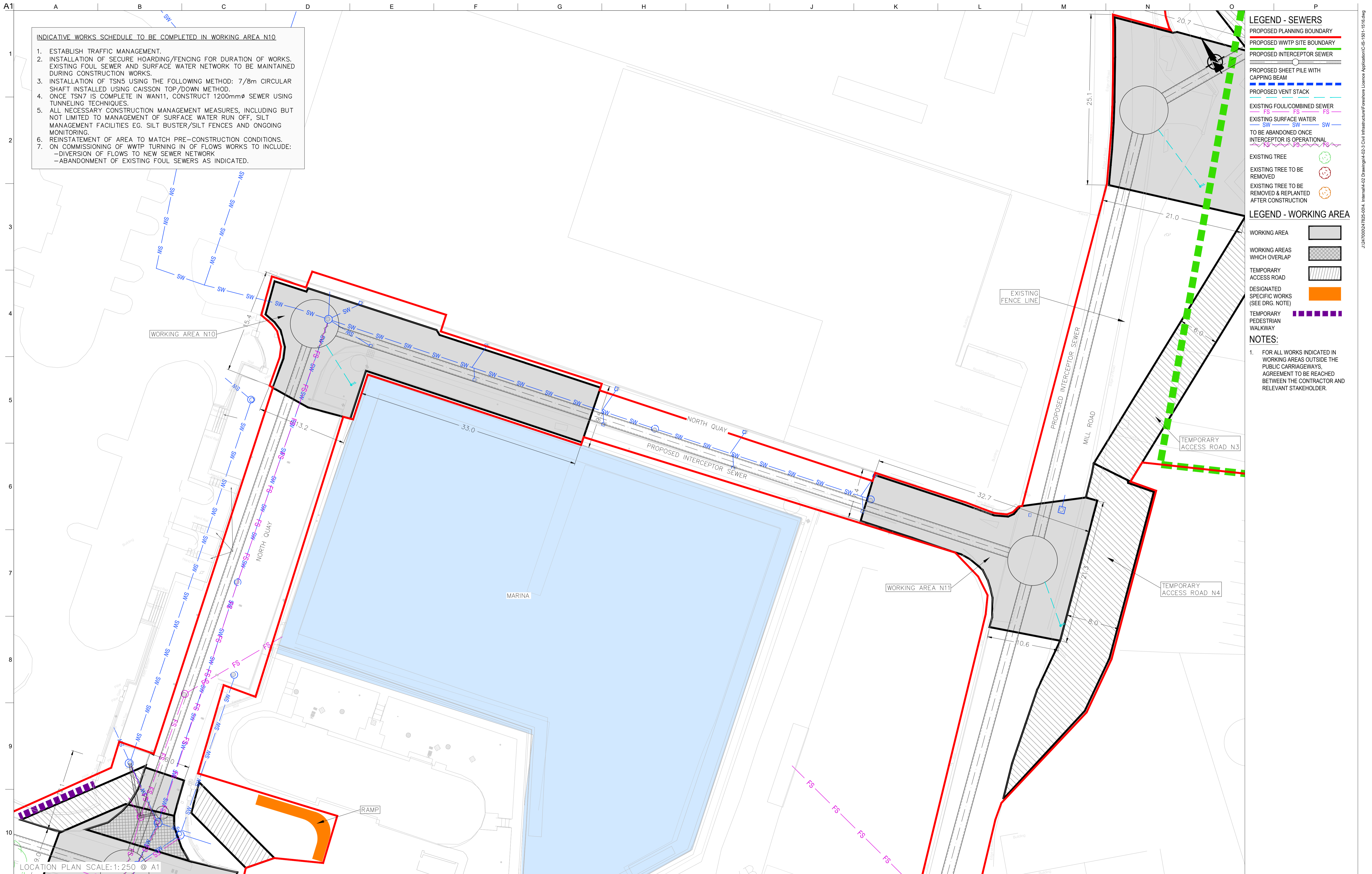
- PROPOSED PLANNING BOUNDARY
- PROPOSED WWTP SITE BOUNDARY
- PROPOSED INTERCEPTOR SEWER
- PROPOSED SHEET PILE WITH CAPPING BEAM
- PROPOSED VENT STACK
- EXISTING FOUL/COMBINED SEWER
- EXISTING SURFACE WATER
- TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION

**LEGEND - WORKING AREA**

- WORKING AREA
- WORKING AREAS WHICH OVERLAP
- TEMPORARY ACCESS ROAD
- DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
- TEMPORARY PEDESTRIAN WALKWAY

**NOTES:**

1. FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.



LOCATION PLAN SCALE: 1:250 @ A1

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 OSI Sheet numbers:  
 4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17



Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Client  
**UISCE ÉIREANN: IRISH WATER**

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1  
 AS SHOWN

Discipline  
 CIVIL



Drawing Title  
**WORKING AREAS LAYOUT PLAN 15 OF 16**

Drawing Status  
**FORESHORE CONSENT**

Job No  
 247825-00

Drawing No  
 C-IS-1515

Issue  
**I01**



- LEGEND - SEWERS**
- PROPOSED PLANNING BOUNDARY
  - PROPOSED WWTP SITE BOUNDARY
  - PROPOSED INTERCEPTOR SEWER
  - PROPOSED SHEET PILE WITH CAPPING BEAM
  - PROPOSED VENT STACK
  - EXISTING FOUL/COMBINED SEWER
  - EXISTING SURFACE WATER
  - TO BE ABANDONED ONCE INTERCEPTOR IS OPERATIONAL
  - EXISTING TREE
  - EXISTING TREE TO BE REMOVED
  - EXISTING TREE TO BE REMOVED & REPLANTED AFTER CONSTRUCTION
- LEGEND - WORKING AREA**
- WORKING AREA
  - WORKING AREAS WHICH OVERLAP
  - TEMPORARY ACCESS ROAD
  - DESIGNATED SPECIFIC WORKS (SEE DRG. NOTE)
  - TEMPORARY PEDESTRIAN WALKWAY

**NOTES:**

1. FOR ALL WORKS INDICATED IN WORKING AREAS OUTSIDE THE PUBLIC CARRIAGEWAYS, AGREEMENT TO BE REACHED BETWEEN THE CONTRACTOR AND RELEVANT STAKEHOLDER.

TEMPORARY ACCESS ROAD N5

INDICATIVE WORKS SCHEDULE FOR TEMPORARY ACCESS N5  
 1. PROVIDED FOR TEMPORARY ACCESS ROAD.

LOCATION PLAN SCALE: 1: 500 @ A1

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OSi Sheet numbers:  
 4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	19/02/19	MS	DR	ES



Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foreshore Consent Application)

Scale at A1  
 AS SHOWN

Discipline  
 CIVIL

ARUP BYRNELOOBY

CLANCY MOORE ARCHITECTS

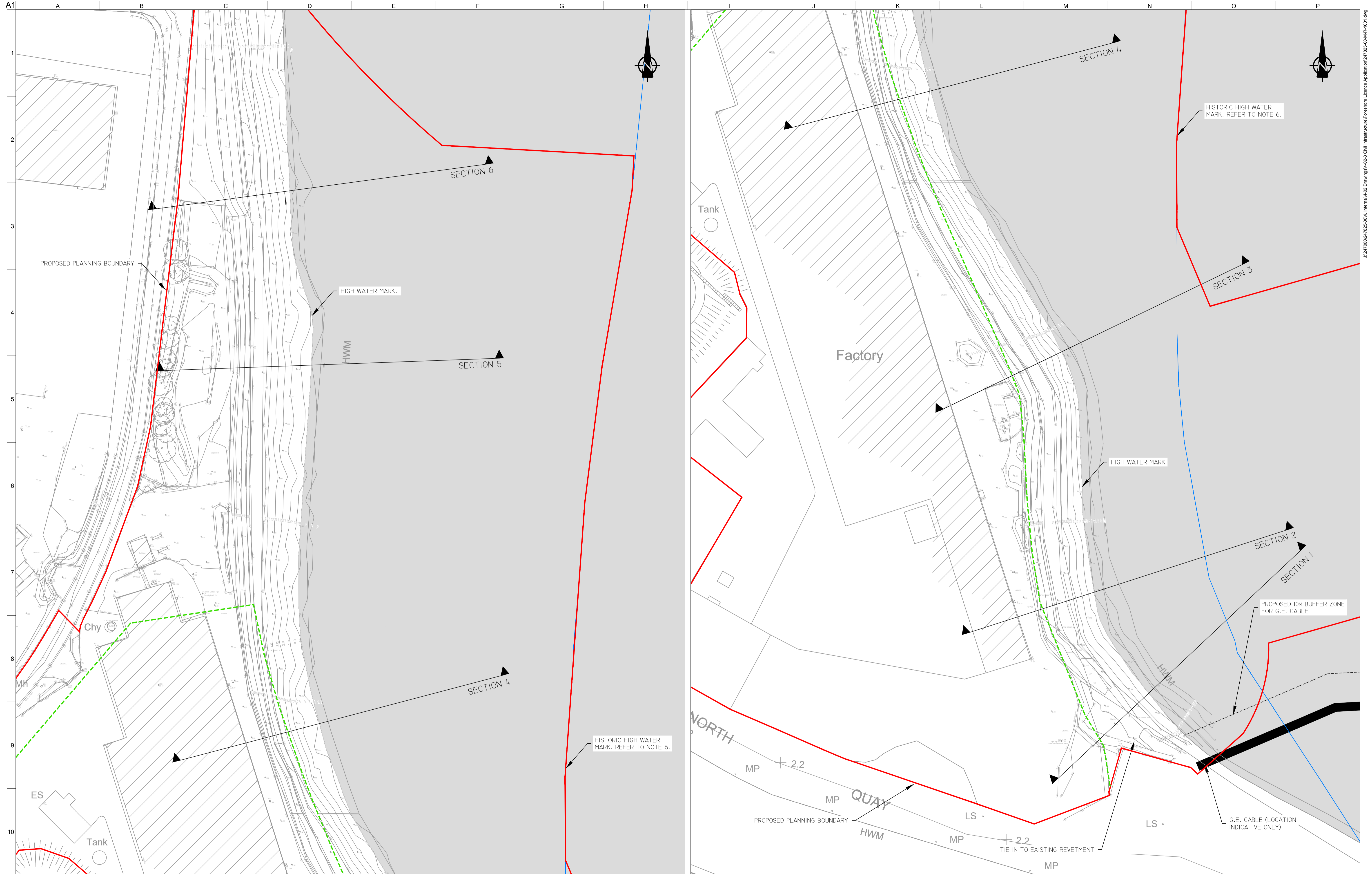
Drawing Title  
**WORKING AREAS LAYOUT PLAN**  
 16 OF 16

Drawing Status  
**FORESHORE CONSENT**

Job No  
 247825-00

Drawing No  
 C-IS-1516

Issue  
 I01



- NOTES**
1. ALL DIMENSIONS IN M UNLESS OTHERWISE NOTED.
  2. ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM MALIN.
  3. TOP LAYER OF EXISTING REVETMENT TO BE REMOVED TO A MINIMUM OF 2.5M ODM OR 2M THICKNESS, WHICHEVER IS GREATER.
  4. TIE-IN DETAIL OF SOUTHERN END OF REVETMENT TO BE CONFIRMED BASED ON LOCATION OF EXISTING GE CABLE
  5. DENSITY OF ROCK ARMOUR ASSUMED TO BE 2600KG/M<sup>3</sup>
  6. HISTORIC HIGH WATER MARK TAKEN FROM THE EXTENT OF FORESHORE SHOWN ON THE 1888-1913 OSI 25 INCH MAPS

- LEGEND**
- PROPOSED PLANNING BOUNDARY
  - - - PROPOSED FINAL WWTP SITE BOUNDARY



OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

FOR SECTIONS REFER TO DRGS  
247825-00-M-R-2001 TO M-R-2003

Issue	Date	By	Chkd	Appd
101	18/02/19	PW	IA	IA



Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
(Foreshire Consent Application)

Scale at A1: 1:500  
Discipline: Infrastructure

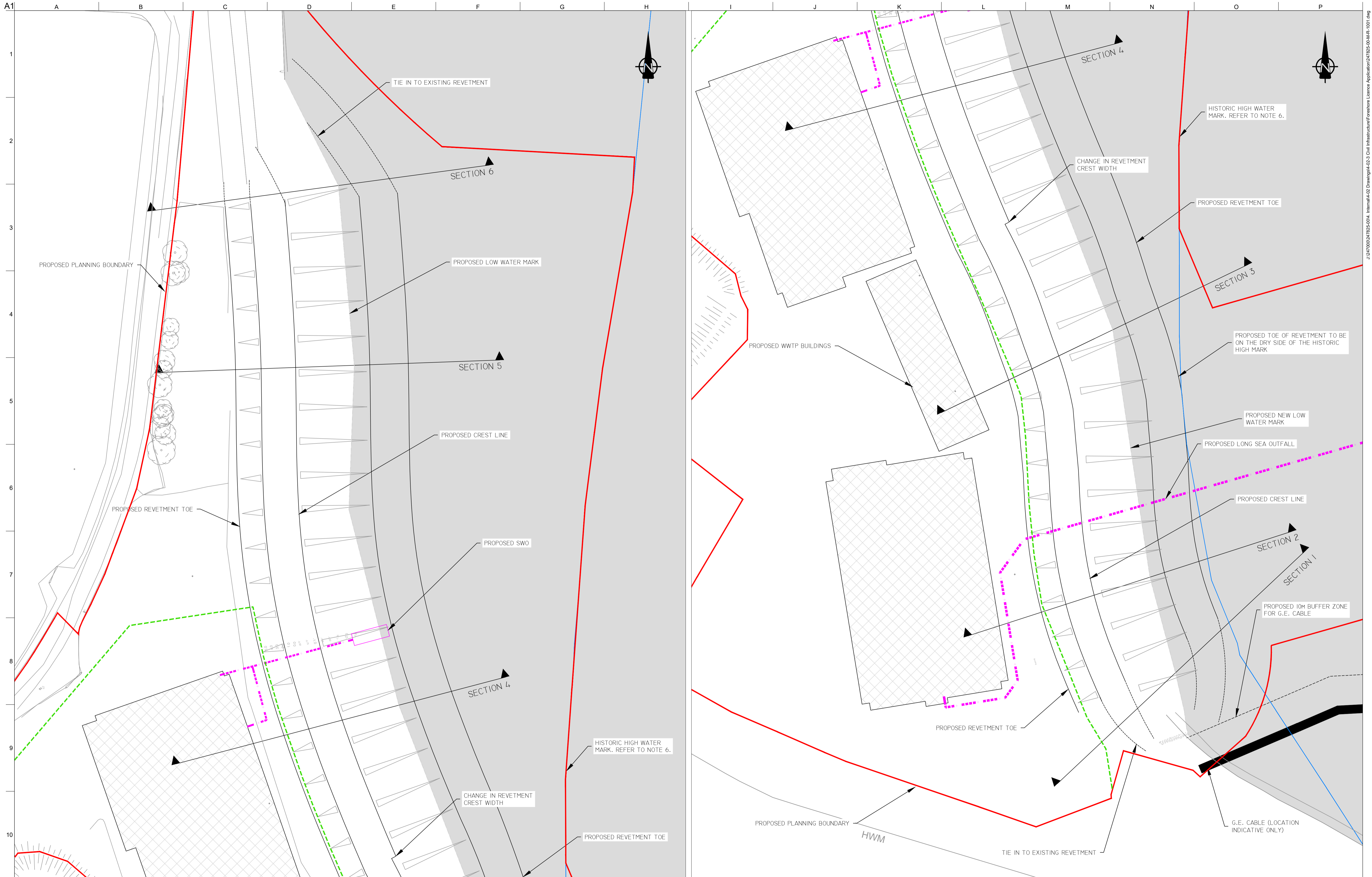
**ARUP BYRNE LOOBY**  
CLANCY MOORE ARCHITECTS

Drawing Title  
**ARKLOW WwTP REVETMENT UPGRADE EXISTING LAYOUT PLAN**

Drawing Status  
**FORESHORE CONSENT**

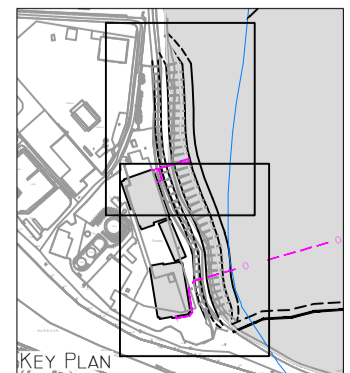
Job No	Drawing No	Issue
247825-00	M-R-1001	101

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- NOTES**
1. ALL DIMENSIONS IN M UNLESS OTHERWISE NOTED.
  2. ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM MALIN.
  3. TOP LAYER OF EXISTING REVETMENT TO BE REMOVED TO A MINIMUM OF 2.5M ODM OR 2M THICKNESS, WHICHEVER IS GREATER.
  4. TIE-IN DETAIL OF SOUTHERN END OF REVETMENT TO BE CONFIRMED BASED ON LOCATION OF EXISTING GE CABLE
  5. DENSITY OF ROCK ARMOUR ASSUMED TO BE 2600KG/M<sup>3</sup>
  6. HISTORIC HIGH WATER MARK TAKEN FROM THE EXTENT OF FORESHORE SHOWN ON THE 1888-1913 OSI 25 INCH MAPS

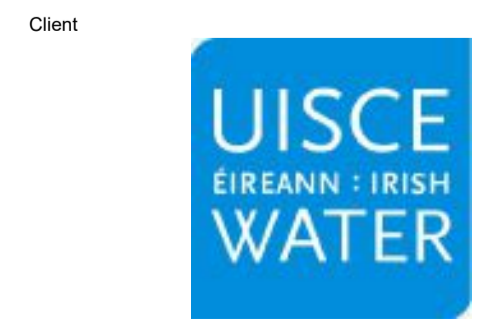
- LEGEND**
- PROPOSED PLANNING BOUNDARY
  - - - PROPOSED FINAL WWTP SITE BOUNDARY
  - - - PROPOSED OUTFALL \ SWO



OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

FOR SECTIONS REFER TO DRGS  
247825-00-M-R-2001 TO M-R-2003

Issue	Date	By	Chkd	Appd
101	18/02/19	PW	IA	IA



Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1: 1:500

Discipline: Infrastructure

**ARUP BYRNE LOOBY**

CLANCY MOORE ARCHITECTS

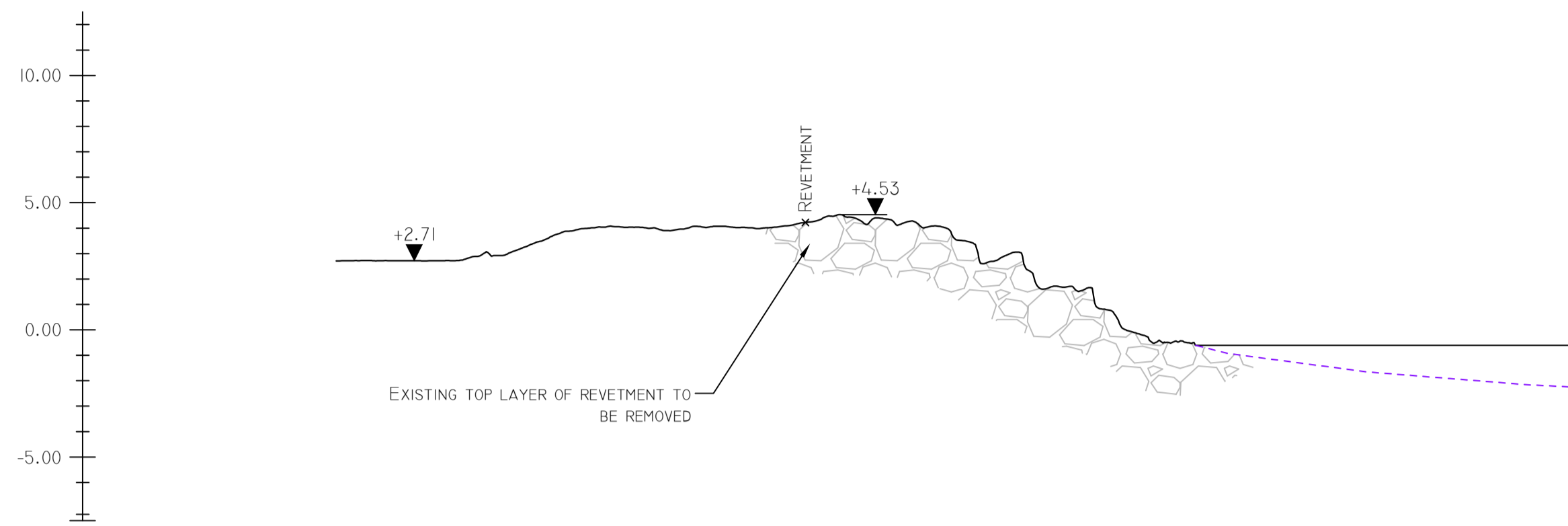
Drawing Title  
**ARKLOW WwTP REVETMENT UPGRADE PROPOSED LAYOUT PLAN**

Drawing Status  
**FORESHORE CONSENT**

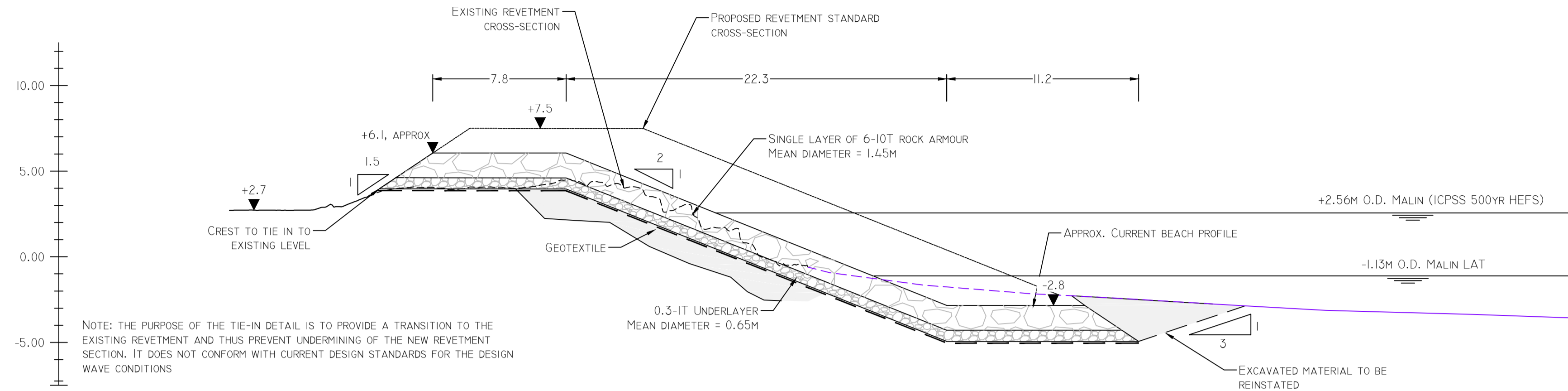
Job No: 247825-00  
Drawing No: M-R-1002  
Issue: 101

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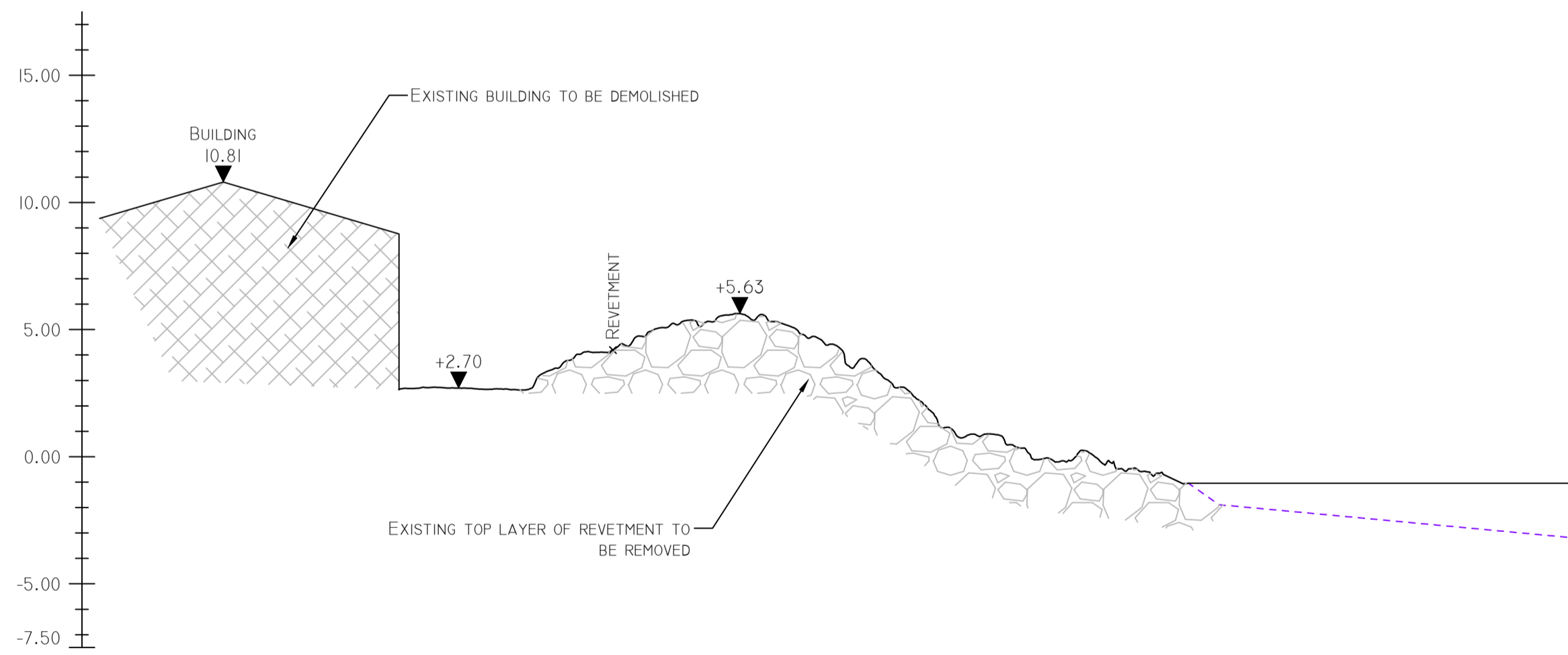




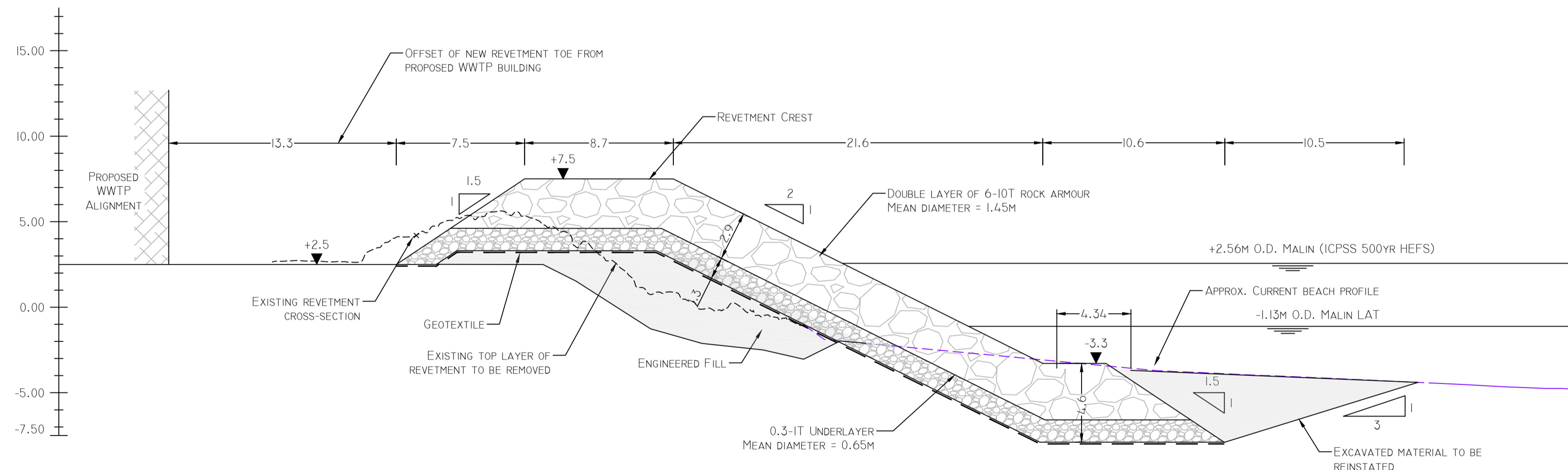
SECTION 1 - EXISTING



SECTION 1 - PROPOSED: TIE IN TO EXISTING REVETMENT, SOUTH



SECTION 2 - EXISTING



SECTION 2 - PROPOSED

- NOTES**
1. ALL DIMENSIONS IN M UNLESS OTHERWISE NOTED.
  2. ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM MALIN.
  3. TOP LAYER OF EXISTING REVETMENT TO BE REMOVED TO A MINIMUM OF 2.5MODM OR 2M THICKNESS, WHICHEVER IS GREATER.
  4. TIE-IN DETAIL OF SOUTHERN END OF REVETMENT TO BE CONFIRMED BASED ON LOCATION OF EXISTING GE CABLE
  5. DENSITY OF ROCK ARMOUR ASSUMED TO BE 2600KG/M<sup>3</sup>
  6. HISTORIC HIGH WATER MARK TAKEN FROM THE EXTENT OF FORESHORE SHOWN ON THE 1888-1913 OSI 25 INCH MAPS

FOR SECTION LOCATIONS REFER TO DRGS 247825-00-M-R-1001 & M-R-1002

Issue	Date	By	Chkd	Appd
101	18/02/19	PW	IA	IA

Client



Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foreshore Consent Application)

Scale at A1  
 1:200

Discipline  
 Infrastructure

**ARUP BYRNE LOOBY**

CLANCY MOORE ARCHITECTS

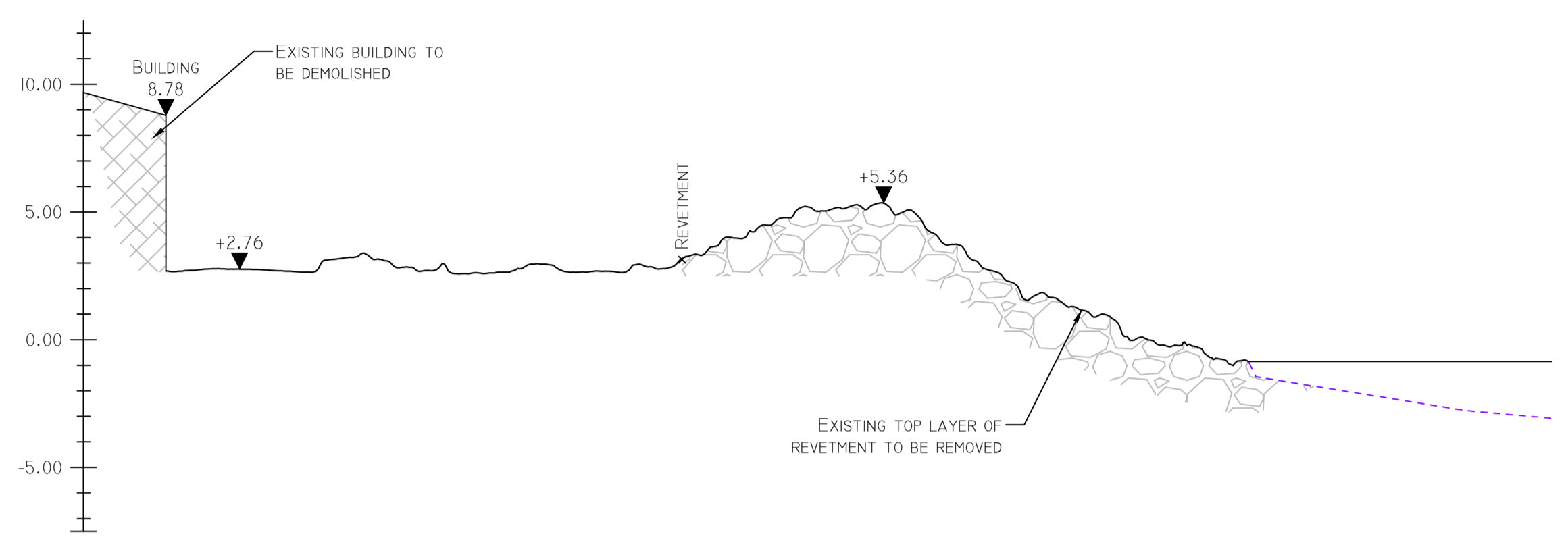
Drawing Title  
**ARKLOW WWTP REVETMENT UPGRADE CROSS SECTION - SHEET 1 OF 3**

Drawing Status  
**FORESHORE CONSENT**

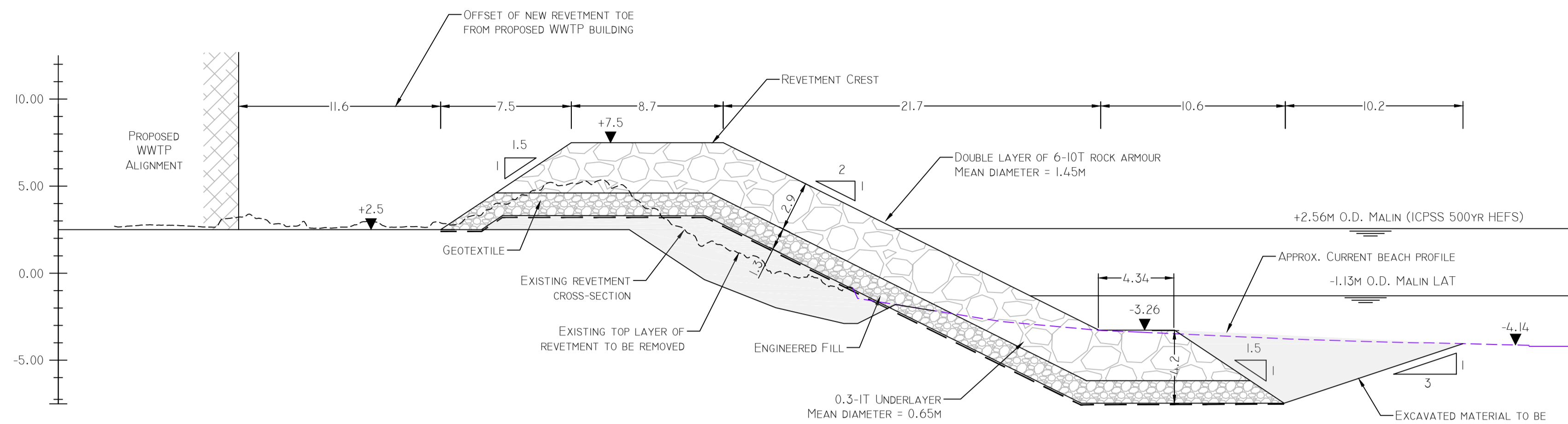
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**247825-00**

Drawing No  
**M-R-2001**

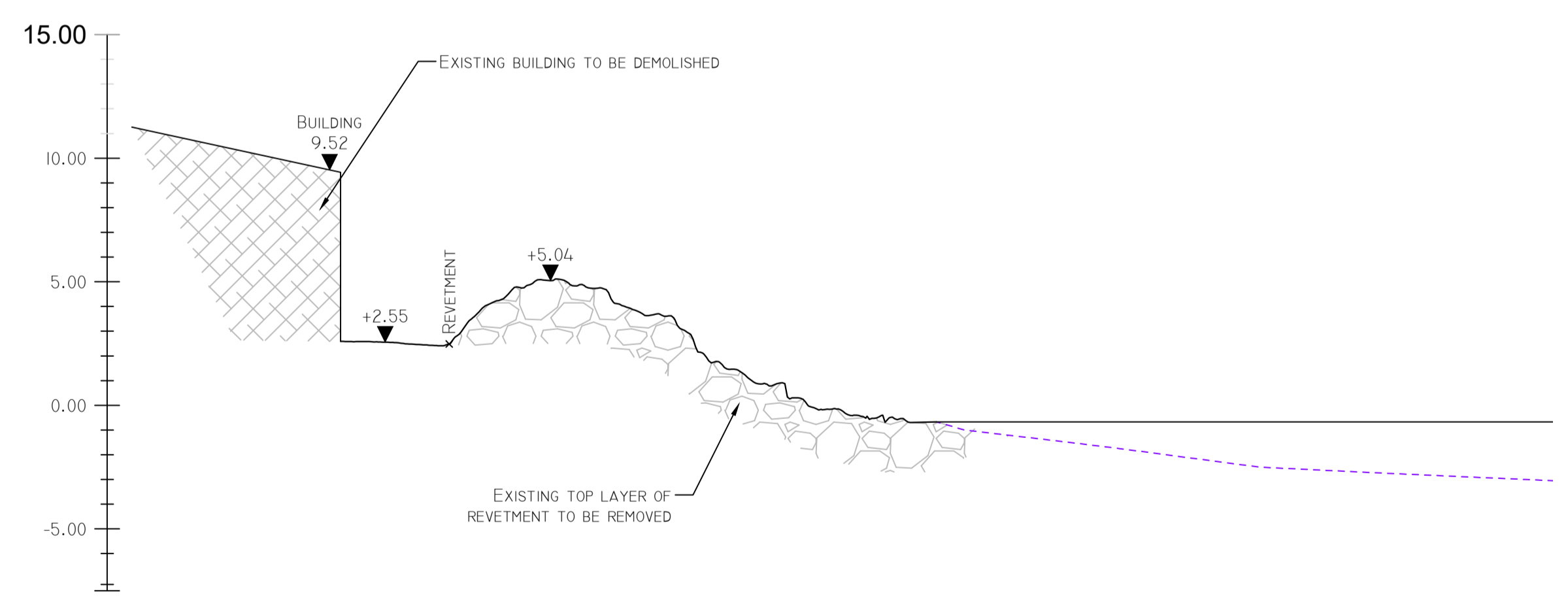
Issue  
**101**



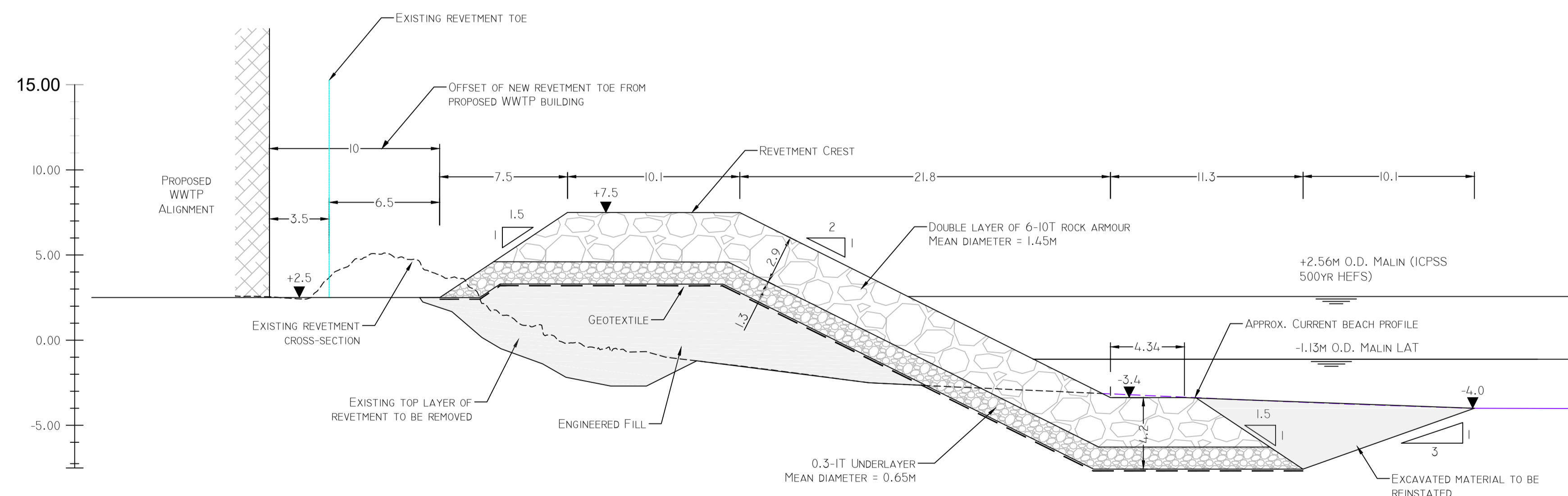
SECTION 3 - EXISTING



SECTION 3 - PROPOSED



SECTION 4 - EXISTING



SECTION 4 - PROPOSED

Notes

- All dimensions in m unless otherwise noted.
- All levels in metres relative to Ordnance Datum Malin.
- Top layer of existing revetment to be removed to a minimum of 2.5m ODM or 2m thickness, whichever is greater.
- Tie-in detail of southern end of revetment to be confirmed based on location of existing GE cable
- Density of rock armour assumed to be 2600kg/m<sup>3</sup>
- Historic high water mark taken from the extent of foreshore shown on the 1888-1913 OSI 25 inch maps

FOR SECTION LOCATIONS REFER TO DRGS 247825-00-M-R-1001 & M-R-1002

Issue	Date	By	Chkd	Appd
101	18/02/19	PW	IA	IA

Client



Job Title

ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)

Scale at A1 1:200

Discipline Infrastructure



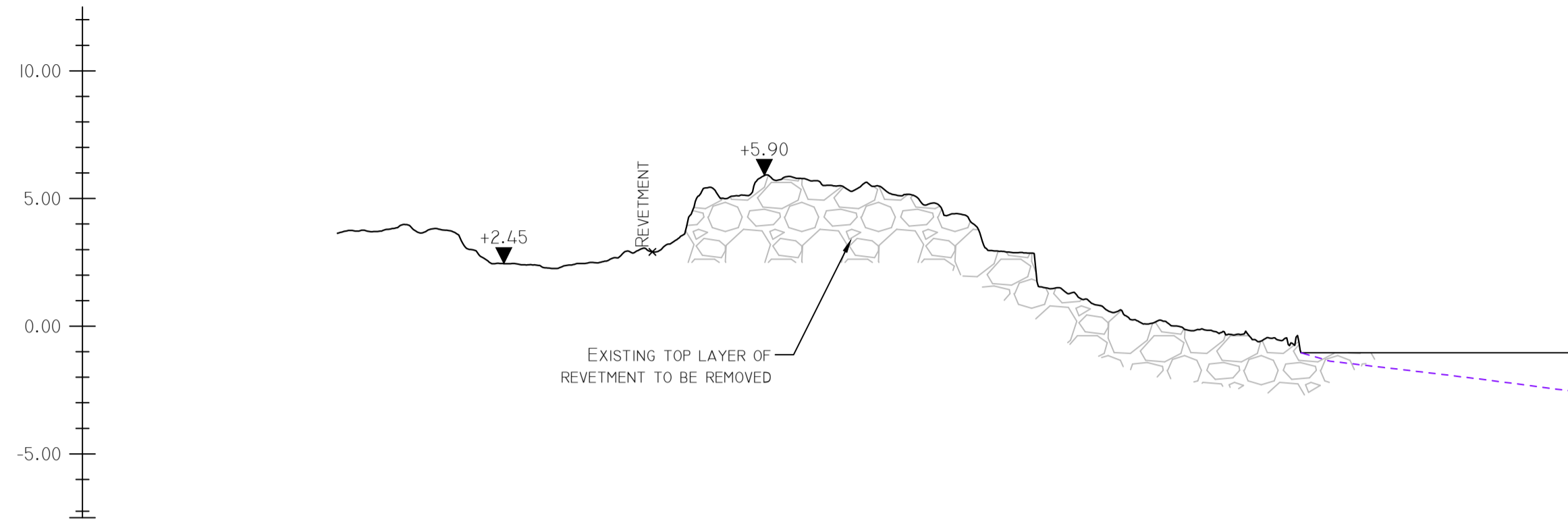
Drawing Title

Arklow WWTP REVELTMENT UPGRADE CROSS SECTION - SHEET 2 OF 3

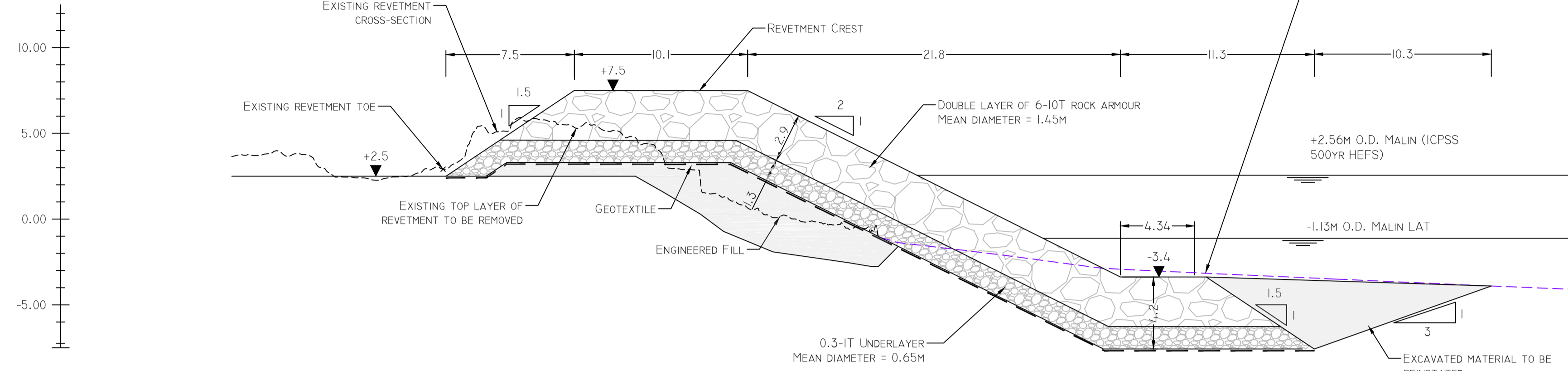
Drawing Status

FORESHORE CONSENT

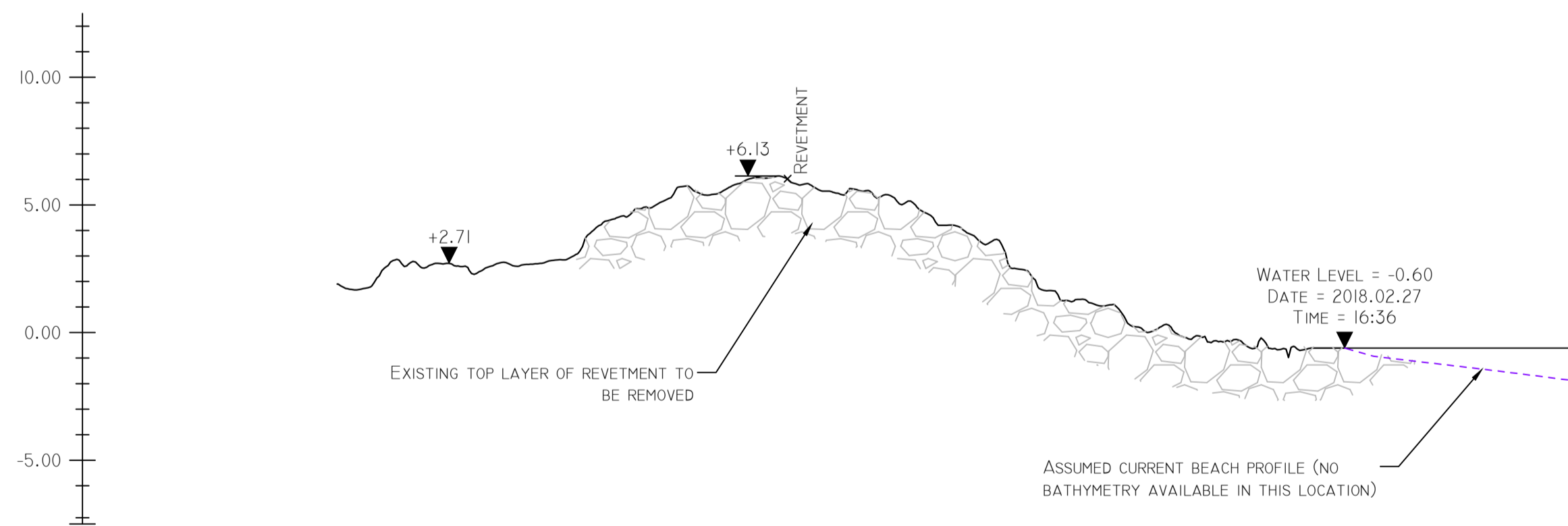
Job No	Drawing No	Issue
247825-00	M-R-2002	101



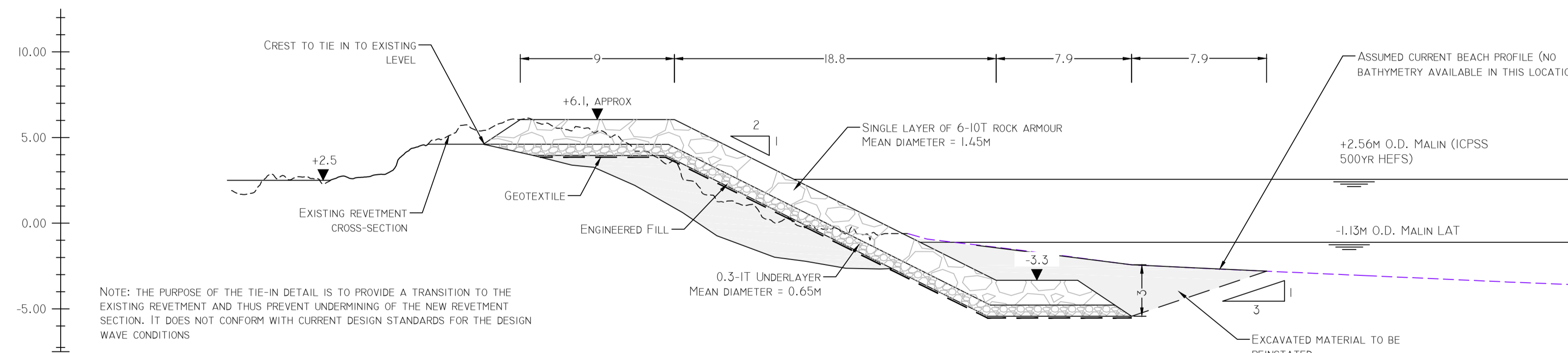
SECTION 5 - EXISTING



SECTION 5 - PROPOSED



SECTION 6 - EXISTING



SECTION 6 - PROPOSED: TIE IN TO EXISTING REVETMENT, NORTH

- Notes**
- All dimensions in m unless otherwise noted.
  - All levels in metres relative to Ordnance Datum Malin.
  - Top layer of existing revetment to be removed to a minimum of 2.5m ODM or 2m thickness, whichever is greater.
  - Tie-in detail of southern end of revetment to be confirmed based on location of existing GE cable
  - Density of rock armour assumed to be 2600kg/m<sup>3</sup>
  - Historic high water mark taken from the extent of foreshore shown on the 1888-1913 OSI 25 inch maps

FOR SECTION LOCATIONS REFER TO DRGS 247825-00-M-R-1001 & M-R-1002

Issue	Date	By	Chkd	Appd
101	18/02/19	PW	IA	IA

Client



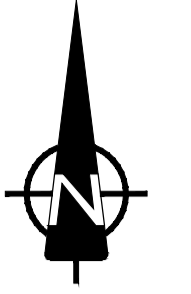
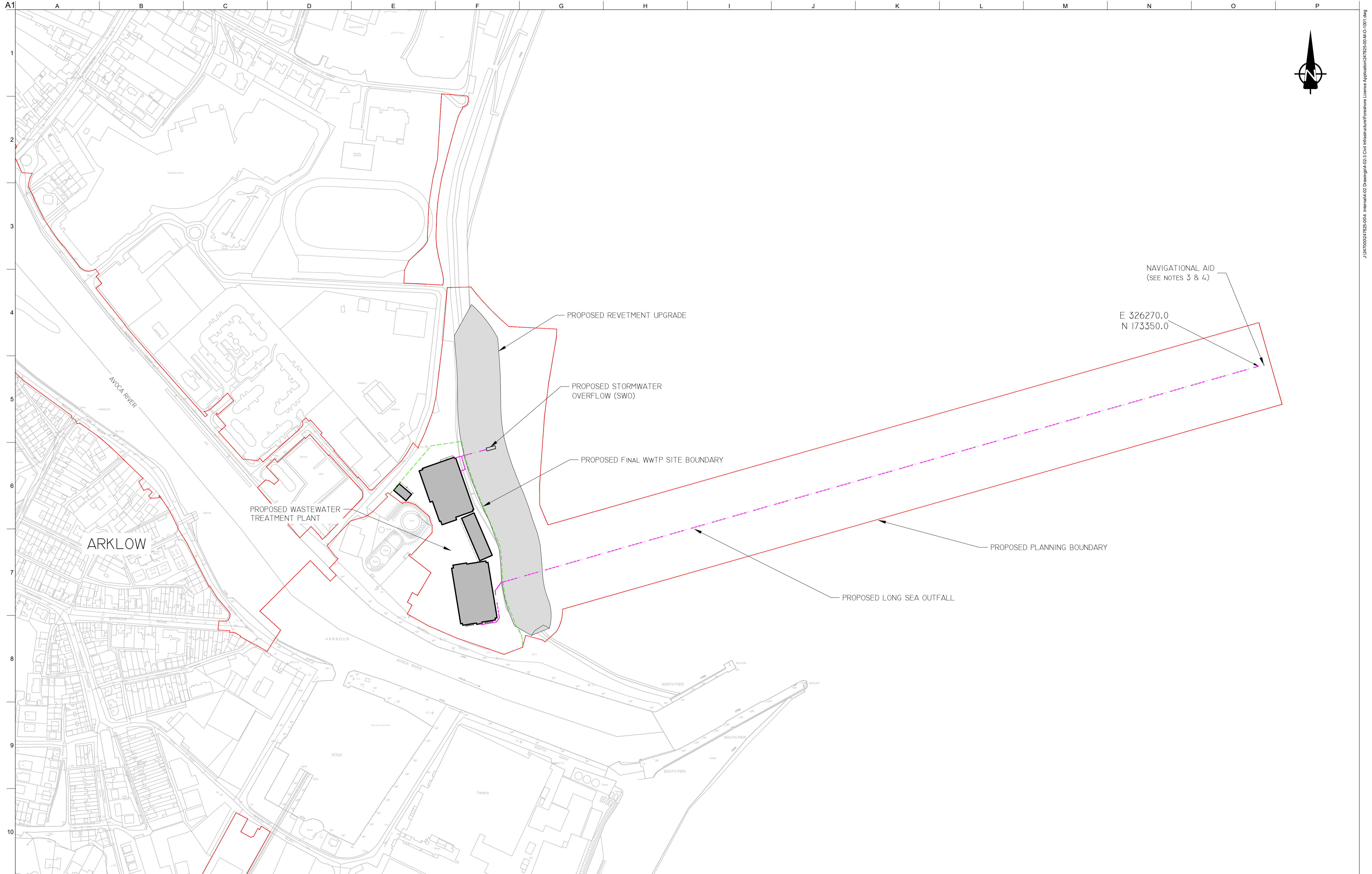
Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT**  
 (Foreshore Consent Application)

Scale at A1  
 1:200  
 Discipline  
 Infrastructure

**ARUP BYRNE LOOBY**  
**CLANCY MOORE ARCHITECTS**

Drawing Title  
**ARKLOW WWTP REVETMENT UPGRADE**  
**CROSS SECTION - SHEET 3 OF 3**

Drawing Status  
**FORESHORE CONSENT**  
 Job No  
**247825-00** Drawing No  
**M-R-2003** Issue  
**101**



- NOTES:**
1. ALL DIMENSIONS IN M UNLESS OTHERWISE NOTED.
  2. ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM MALIN.
  3. A MARKER BUOY CONSISTING OF A YELLOW CAN SHAPED LIGHTED BUOY, EXHIBITING A FL.Y.2.5S LIGHT (OR AS REQUIRED) SHALL BE INSTALLED TO MARK THE LOCATION OF THE OUTFALL.
  4. ANCHORING OF THE BUOY SHALL BE SEPARATE FROM THE OUTFALL STRUCTURE AND LOCATED AT AN APPROPRIATE DISTANCE BEYOND THE END OF THE OUTFALL, SUCH THAT IT HAS NO IMPACT ON THE OUTFALL STRUCTURE

**LEGEND**

<span style="color: red;">—</span>	PROPOSED PLANNING BOUNDARY
<span style="color: green;">- - -</span>	PROPOSED FINAL WwTP SITE BOUNDARY
<span style="color: purple;">- - -</span>	PROPOSED OUTFALL \ STORMWATER OUTLET

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OSi Sheet numbers:  
 4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17

Issue	Date	By	Chkd	Appd
I01	18/02/19	TD	AC	EMcA



Client

Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1: 1:2000

Discipline: Infrastructure

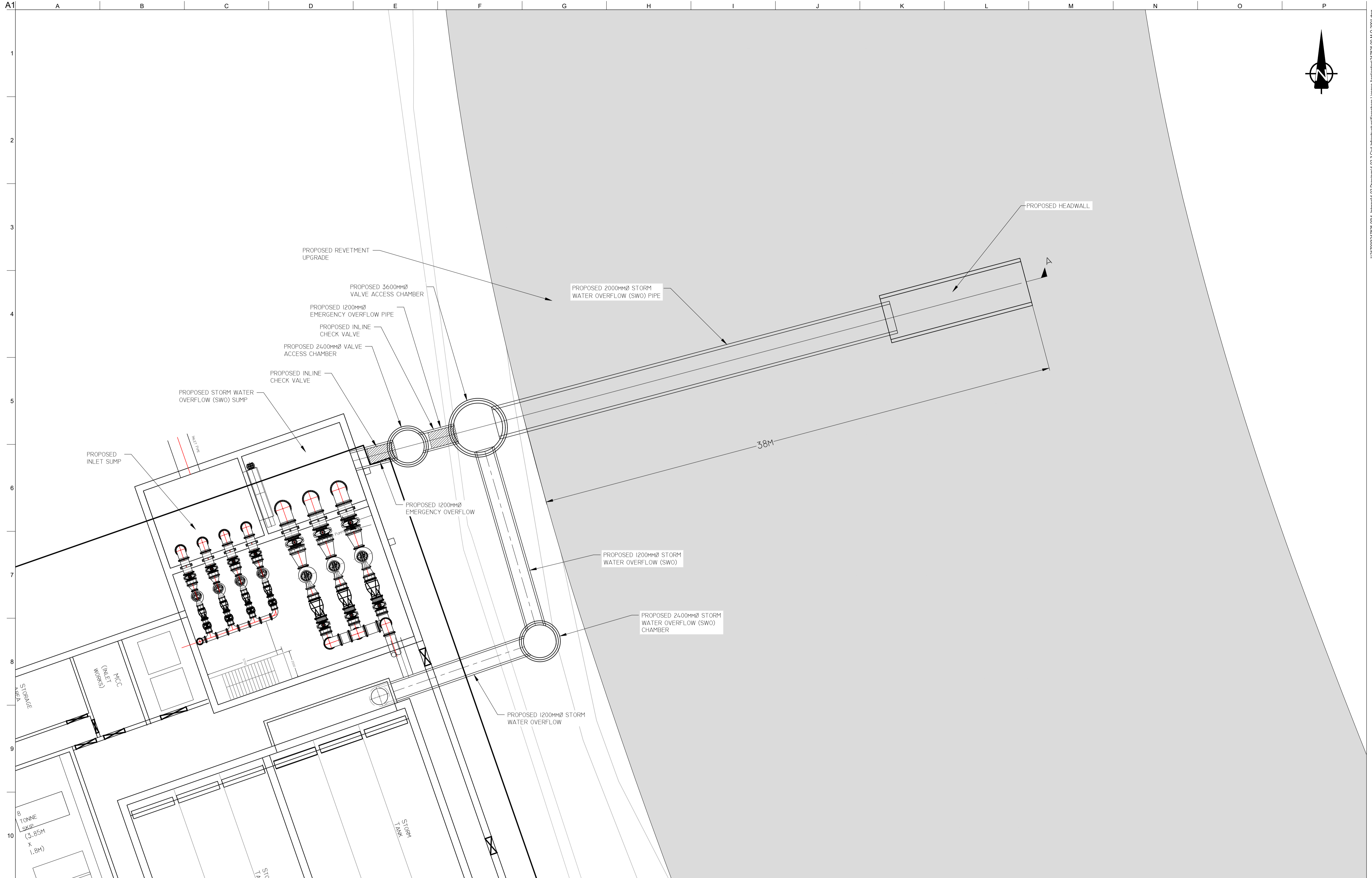
**ARUP BYRNE LOOBY**

**CLANCY MOORE ARCHITECTS**

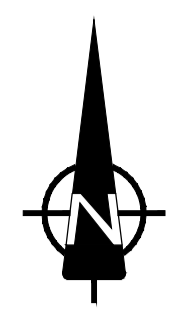
Drawing Title  
**ARKLOW WwTP OUTFALLS - PROPOSED CONTIGUOUS LAYOUT PLAN**

Drawing Status  
**FORESHORE CONSENT**

Job No: 247825-00  
 Drawing No: M-O-1001  
 Issue: I01



A1  
1  
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OSi Sheet numbers:  
4428-A, 4428-07, 4428-11, 4428-12, 4428-16 & 4428-17



Issue	Date	By	Chkd	Appd
I01	18/02/19	TD	AC	EMcA

Client



Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1 1:125

Discipline  
Infrastructure

**ARUP BYRNELOOBY**

CLANCY MOORE ARCHITECTS

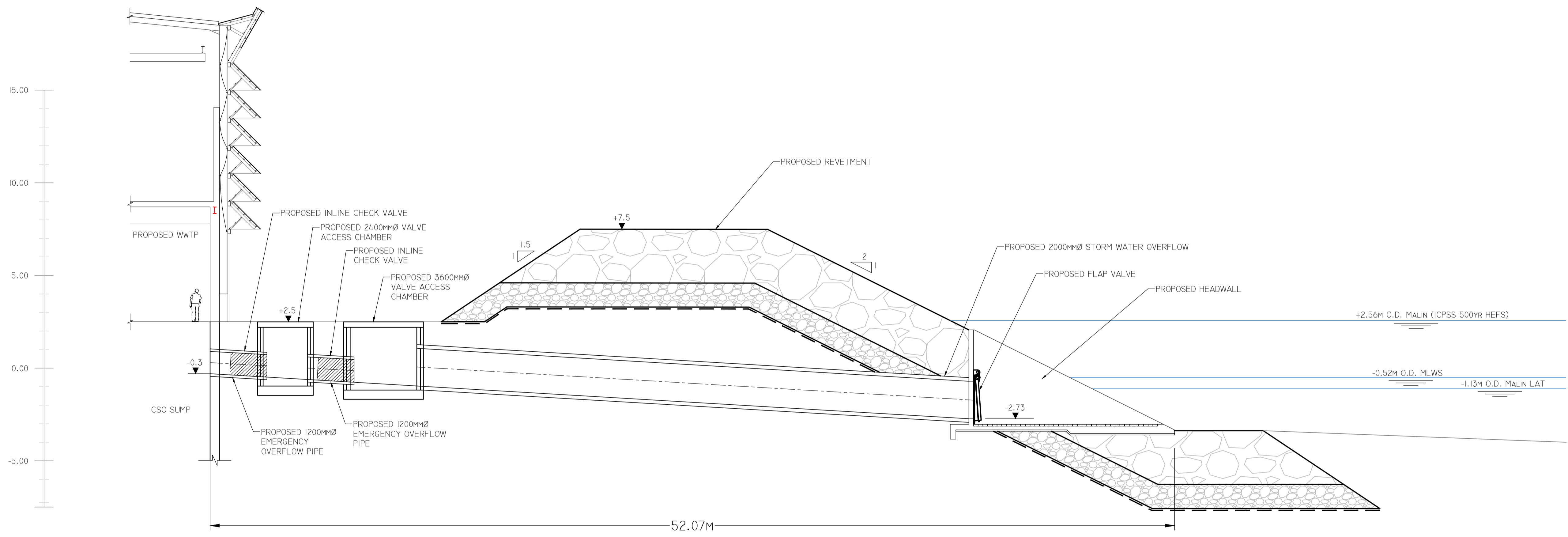
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**ARKLOW WwTP - STORM WATER OVERFLOW (SWO) AT WwTP SITE PLAN**

Drawing Status  
**FORESHORE CONSENT**

Job No  
**247825-00**

Drawing No  
**M-O-2001**

Issue  
**I01**



Do not scale

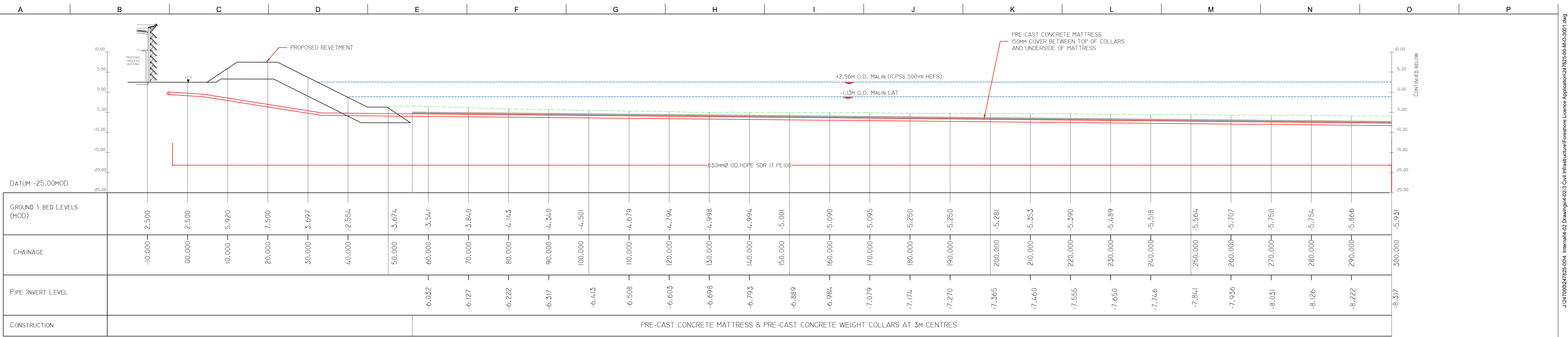
Issue	Date	By	Chkd	Appd
I01	18/02/19	TD	AC	EMcA



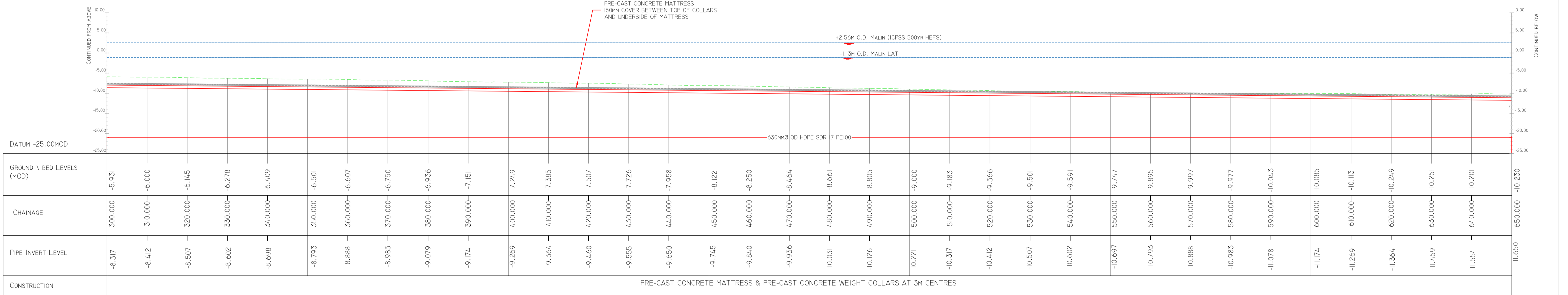
Client  
 Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**  
 Scale at A1 1:125  
 Discipline Infrastructure

**ARUP BYRNE LOOBY**  
 CLANCY MOORE ARCHITECTS

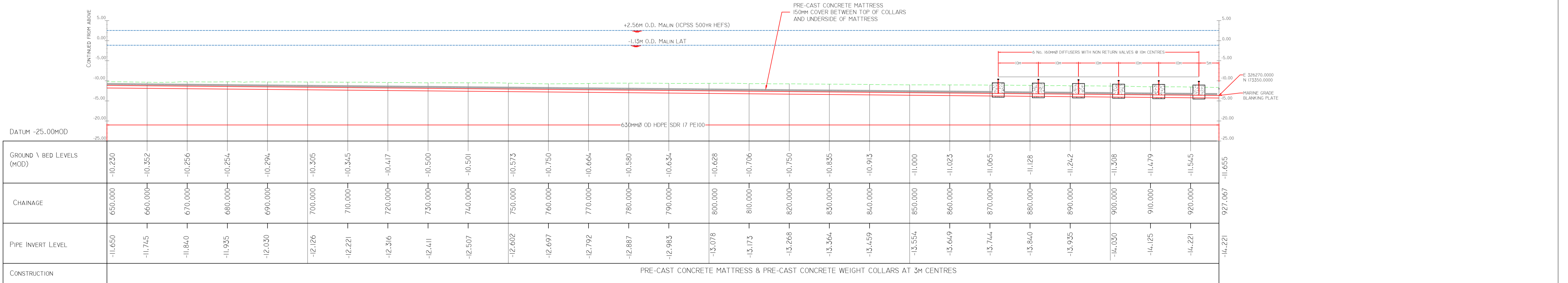
Drawing Title  
**ARKLOW WwTP - STORM WATER OVERFLOW (SWO) AT WwTP SITE LONGITUDINAL SECTION**  
 Drawing Status  
**FORESHORE CONSENT**  
 Job No 247825-00 Drawing No M-O-2101 Issue I01



LONG SEA OUTFALL - LONG SECTION  
SCALE: H 1:500,V 1:500, DATUM: -15.000



LONG SEA OUTFALL - LONG SECTION  
SCALE: H 1:500,V 1:500, DATUM: -15.000



LONG SEA OUTFALL - LONG SECTION  
SCALE: H 1:500,V 1:500, DATUM: -15.000

Issue	Date	By	Chkd	Appd
I01	18/02/19	TD	AC	EMcA



Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foresore Consent Application)**

Scale at A1 As Shown

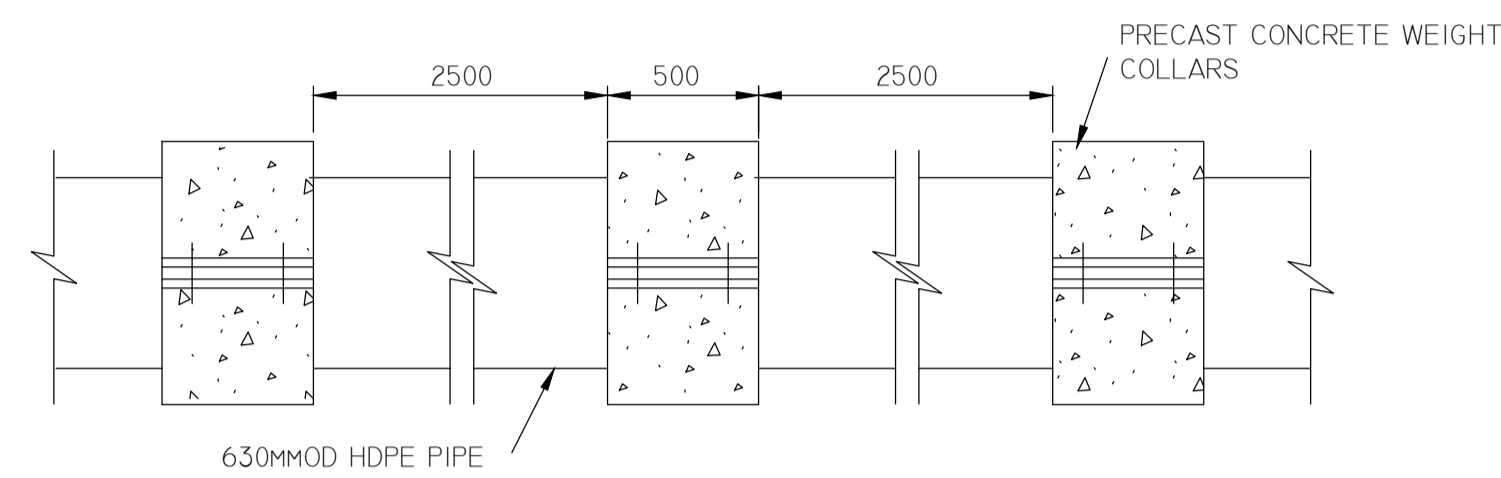
Discipline Infrastructure



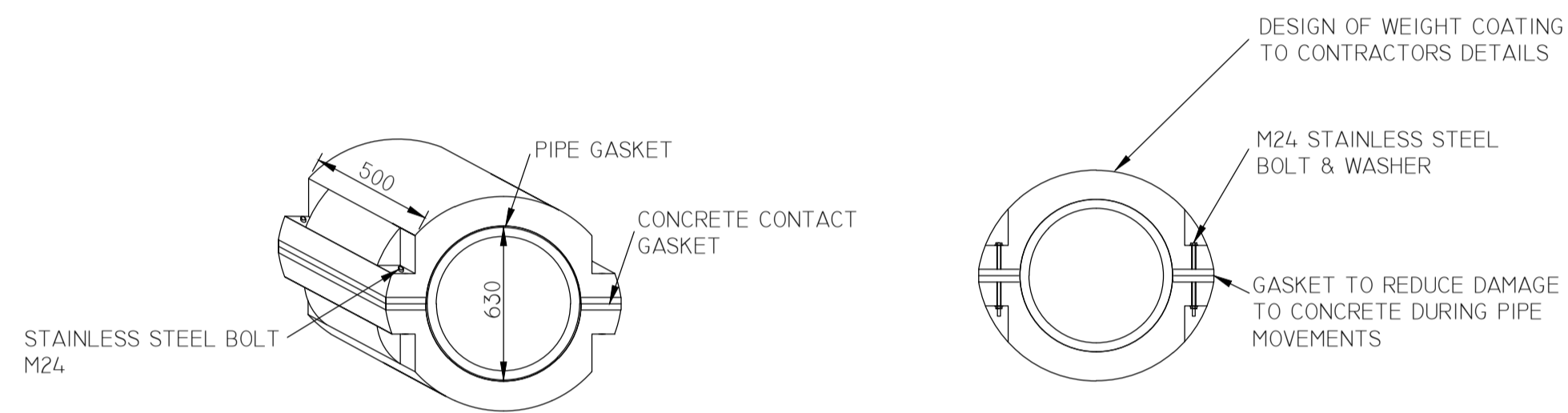
Drawing Title  
**ARKLOW WwTP LONG SEA OUTFALL - INDICATIVE LONGITUDINAL SECTION**

Drawing Status  
**FORESHORE CONSENT**

Job No 247825-00 Drawing No M-O-3001 Issue I01

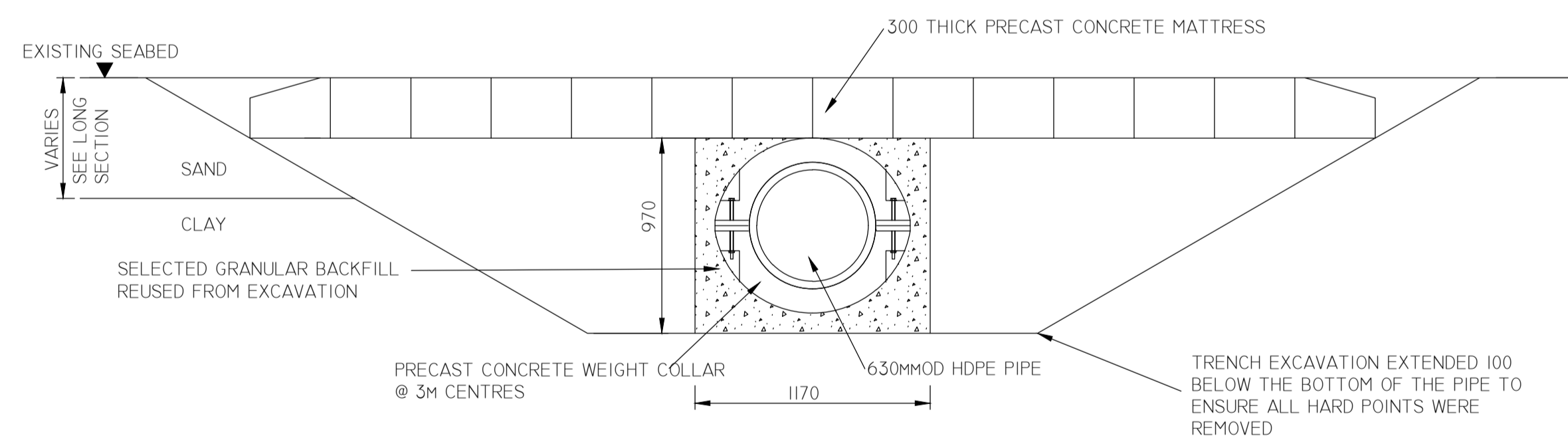


**PIPE LONGSECTION (INSTALLATION PHASE)**  
SCALE 1:25



**CONCRETE WEIGHT COATING DETAIL**  
SCALE 1:25

**FIXING DETAIL**  
SCALE 1:25



**TYPICAL TRENCH PROFILE - SEABED**  
SCALE 1:25

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM UNLESS NOTED OTHERWISE.
2. ALL MANHOLES AND WORKS TO COMPLY WITH IRISH WATER STANDARD DETAILS
3. FOR OUTFALL ROUTE PLAN REFER TO DRAWING No. 247825-00-M-O-1001
4. FOR OUTFALL LONGITUDINAL SECTIONS REFER TO DRAWING No. 247825-00-M-O-3001
5. EXACT SIZE OF CONCRETE COLLAR WEIGHT TO BE DETERMINED BY CONTRACTOR
6. WHERE WEIGHT COLLARS ARE NOT SHOWN, PIPES TO BE SUNK USING SADDLE BAGS TO CONTRACTORS DETAILS
7. LAPS TO GEOTEXTILES 1000MM IN ALL CASES
8. MATTRESS AT CORNER TO HAVE NO VOIDS, LOCAL GROUTING REQUIRED
9. MATTRESS EXTENDED A MINIMUM OF 3M EITHER SIDE OF THE PIPE CENTRE LINE AT ALL LOCATIONS
10. PIPES TO BE LAID ON A BED OF MATERIAL WHICH PROVIDES EVEN AND CONTINUOUS SUPPORT. BED TO BE CHECKED FOR HARD POINTS WHICH ARE TO BE REMOVED.
11. ALL STAINLESS STEEL IS TO BS 1.4462 TO EN 10088

Issue	Date	By	Chkd	Appd
101	18/02/19	TD	AC	EMcA

Client



Job Title  
**ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)**

Scale at A1 As shown  
Discipline Infrastructure

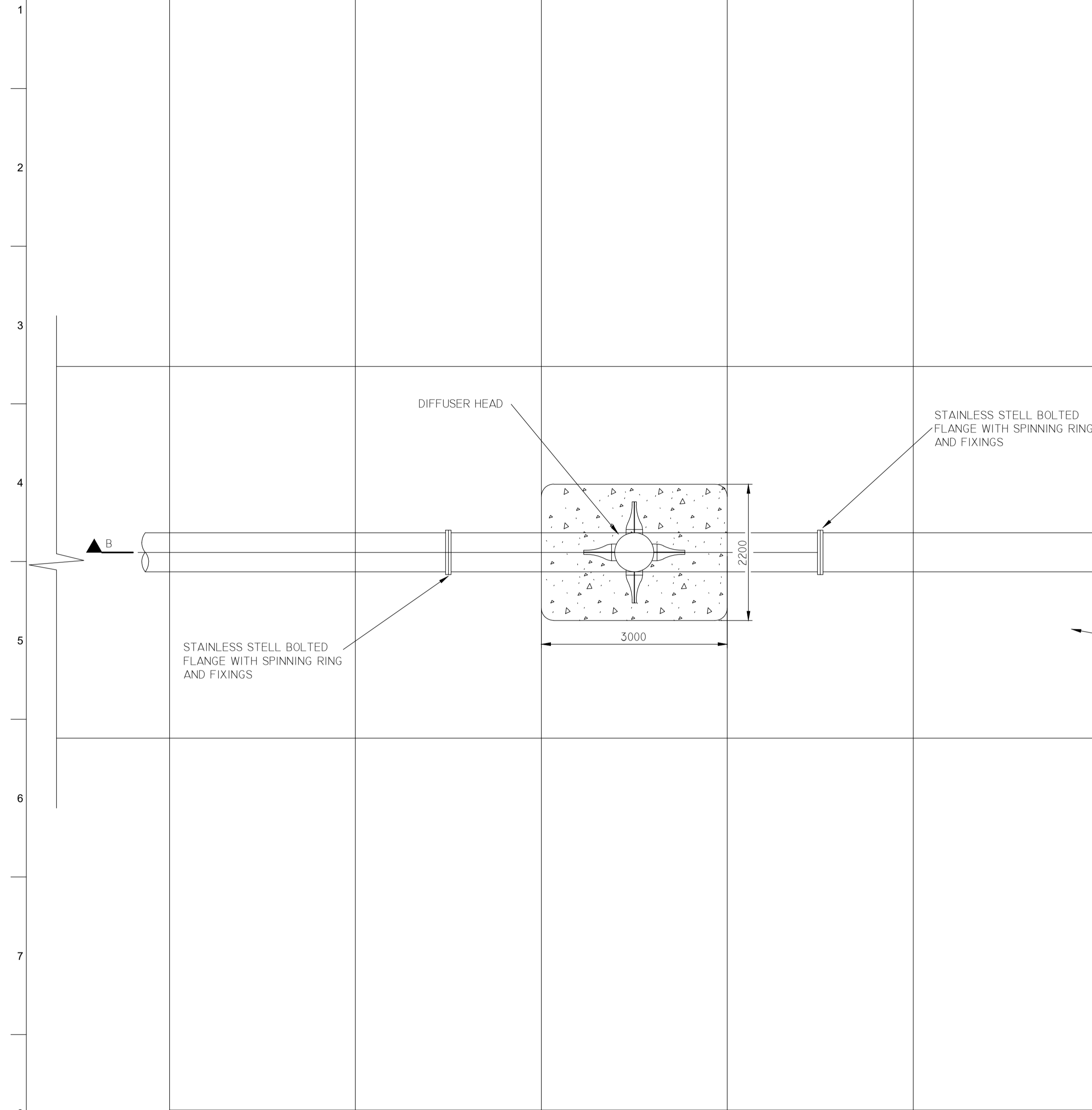
**ARUP BYRNE LOOBY**  
**CLANCY MOORE ARCHITECTS**

Drawing Title  
**ARKLOW WwTP LONG SEA OUTFALL TYPICAL CROSS SECTION**

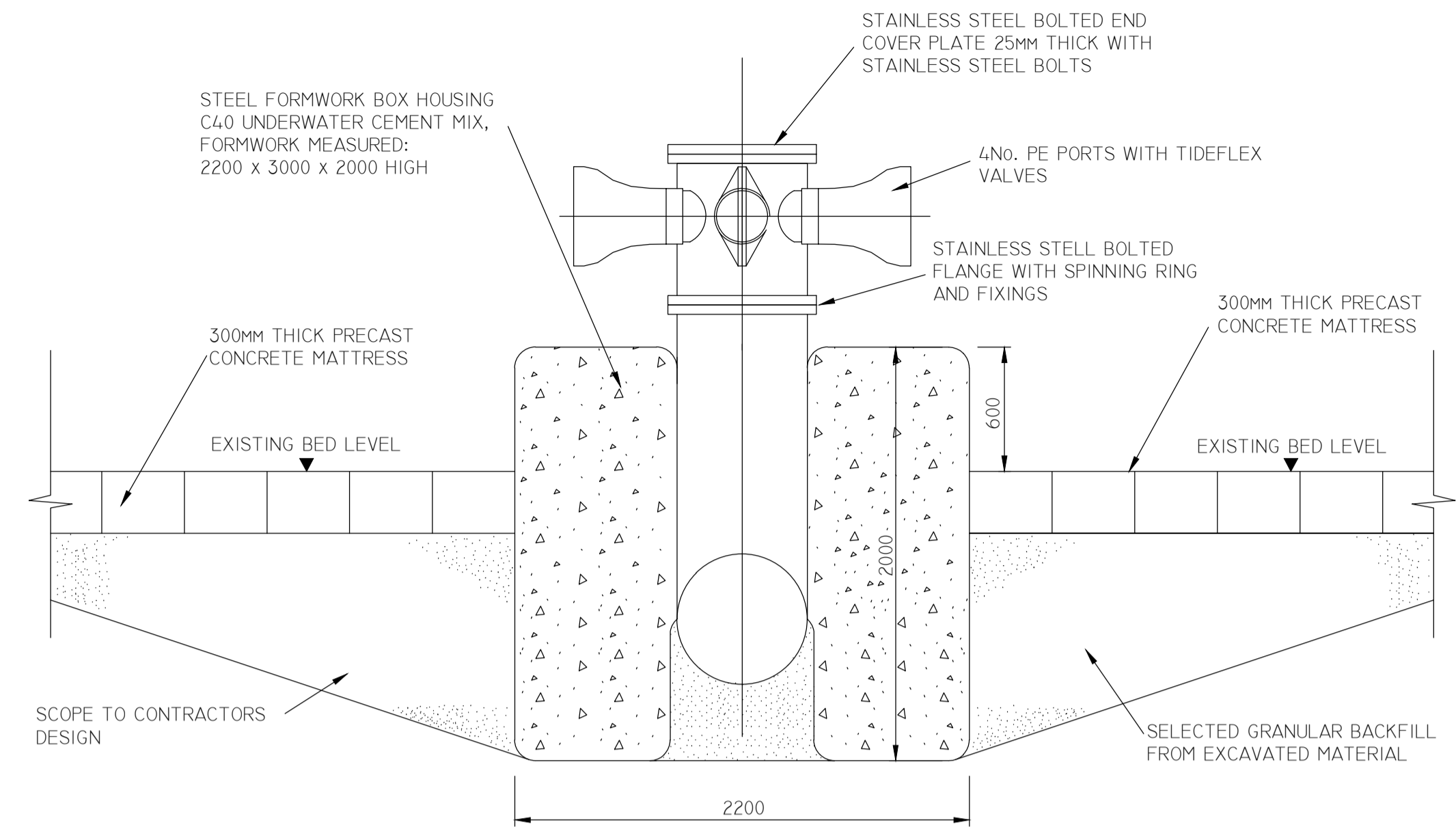
Drawing Status  
**FORESHORE CONSENT**

Job No	Drawing No	Issue
247825-00	M-O-3101	101

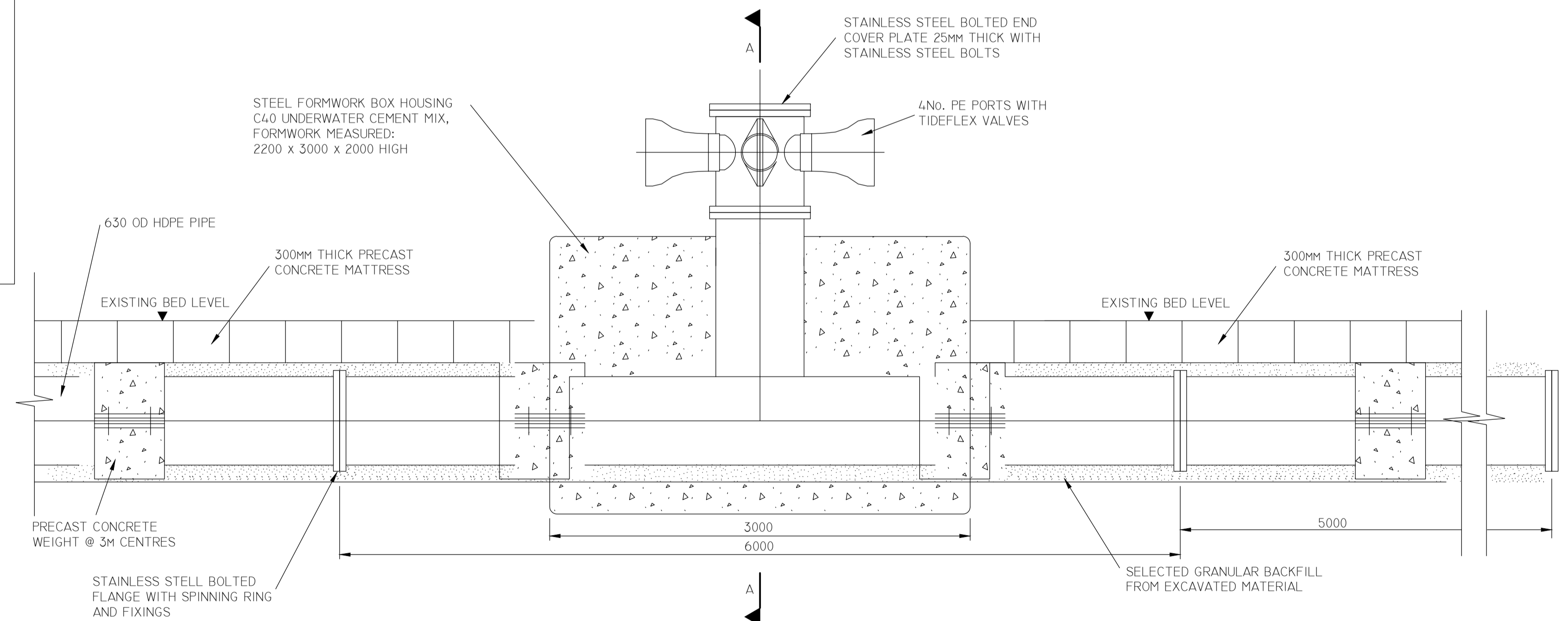




PLAN OF OUTFALL  
SCALE 1:50



CROSS SECTION A-A  
SCALE 1:25



SECTION B-B  
SCALE 1:25

Issue	Date	By	Chkd	Appd
101	18/02/19	TD	AC	EMcA

Client



Job Title

ARKLOW WASTEWATER TREATMENT PLANT PROJECT (Foreshore Consent Application)

Scale at A1 As Shown  
Discipline Infrastructure

ARUP BYRNE LOOBY  
CLANCY MOORE ARCHITECTS

Drawing Title

ARKLOW WwTP LONG SEA OUTFALL TYPICAL DIFFUSER DETAILS

Drawing Status  
FORESHORE CONSENT

Job No 247825-00  
Drawing No M-O-4001  
Issue 101