

Cambridge Waste Water Treatment Plant Relocation Project
Anglian Water Services Limited

Design Plans – Waterbeach Pipeline Long Sections

Application Document Reference: 4.14
PINS Project Reference: WW010003
APFP Regulation No. 5(2)o

Revision No. 02
16 October 2023

Document title	Design Plans - Waterbeach Pipeline Long Sections
Version No.	C02
Date Approved	28.01.23
Date 1st Issued	30.01.23

Version History

Version	Date	Author	Description of change
C01	30.01.23	-	DCO Submission
C02	13.10.23	-	Key Plan and Sheet 10 updated to reflect changes in the Scheme Order Limits



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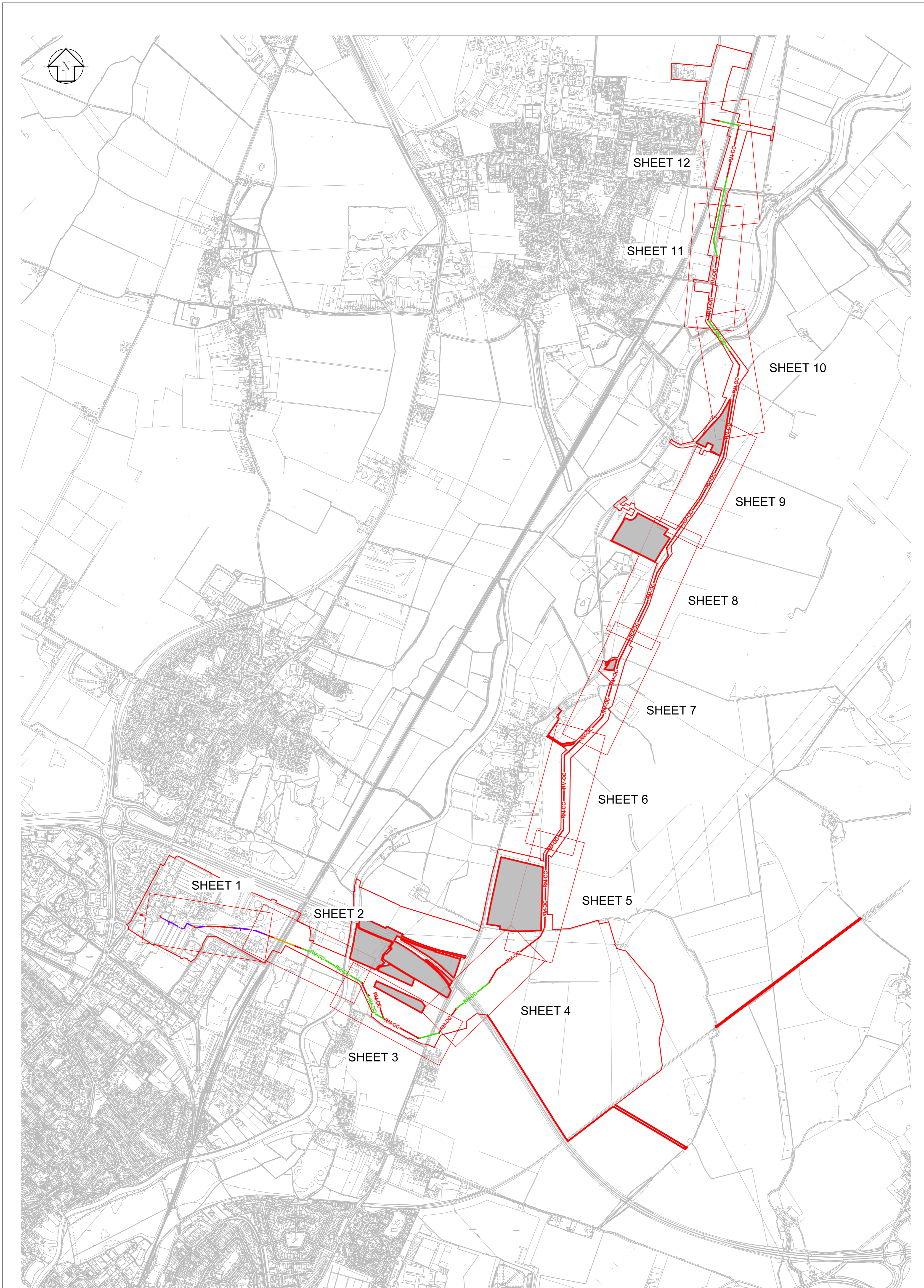
1 Introduction

- 1.1.1 The ‘Design Plans - Waterbeach Pipeline Long Sections’ (the Plans), listed in Table 1.1, relate to an application made by Anglian Water Services Limited (the “Applicant”) under section 37 of the Planning Act 2008 (the “2008 Act”) for a Development Consent Order (DCO) for the Cambridge Waste Water Treatment Plant Relocation Project.
- 1.1.2 The Plans are included in the DCO application in compliance with Regulations 5(2)(o) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (the “2009 Regulations”), which require:
- “5(2) The application must be accompanied by—*
- (o) “any other plans, drawings and sections necessary to describe the proposals for which development consent is sought, showing details of design, external appearance, and the preferred layout of buildings or structures, drainage, surface water management, means of vehicular and pedestrian access, any car parking to be provided, and means of landscaping;”*
- 1.1.3 As these Plans are part of the application documentation, they should be read alongside and are informed by the other application documentation. In particular, these Plans should be read alongside Schedule 1 (Authorised Development) of the Draft Development Consent Order (Application Document Reference 2.1) and the Works Plans (Application Document Reference 4.3).

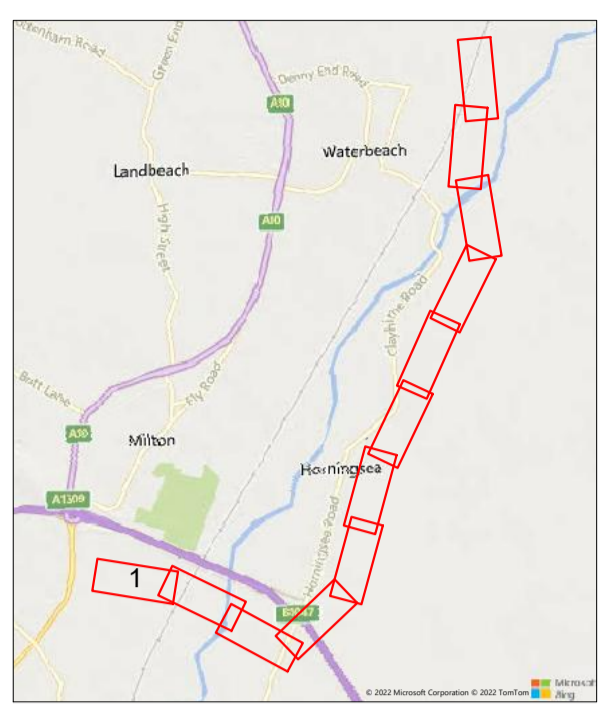
Table 1-1: Schedule of plans in this application document

Application Document Ref	Document Title	Drawing Number	Revision	Status
4.14.0	4.14.0 Design Plans – Waterbeach Pipeline Long Sections – Key Plan	00001-100006-CAMEST-ZZZ-LAY-Z-9700	CO2	S4
4.14.1	4.14.1 Design Plans – Waterbeach Pipeline Long Sections – Sheet 1	00001-100006-CAMEST-ZZZ-LAY-Z-9701	CO1	S4
4.14.2	4.14.2 Design Plans – Waterbeach Pipeline Long Sections – Sheet 2	00001-100006-CAMEST-ZZZ-LAY-Z-9702	CO1	S4
4.14.3	4.14.3 Design Plans – Waterbeach Pipeline Long Sections – Sheet 3	00001-100006-CAMEST-ZZZ-LAY-Z-9703	CO1	S4
4.14.4	4.14.4 Design Plans – Waterbeach Pipeline Long Sections – Sheet 4	00001-100006-CAMEST-ZZZ-LAY-Z-9704	CO1	S4

Application Document Ref	Document Title	Drawing Number	Revision	Status
4.14.5	4.14.5 Design Plans – Waterbeach Pipeline Long Sections – Sheet 5	00001-100006-CAMEST-ZZZ-LAY-Z-9705	CO1	S4
4.14.6	4.14.6 Design Plans – Waterbeach Pipeline Long Sections – Sheet 6	00001-100006-CAMEST-ZZZ-LAY-Z-9706	CO1	S4
4.14.7	4.14.7 Design Plans – Waterbeach Pipeline Long Sections – Sheet 7	00001-100006-CAMEST-ZZZ-LAY-Z-9707	CO1	S4
4.14.8	4.14.8 Design Plans – Waterbeach Pipeline Long Sections – Sheet 8	00001-100006-CAMEST-ZZZ-LAY-Z-9708	CO1	S4
4.14.9	4.14.9 Design Plans – Waterbeach Pipeline Long Sections – Sheet 9	00001-100006-CAMEST-ZZZ-LAY-Z-9709	CO1	S4
4.14.10	4.14.10 Design Plans – Waterbeach Pipeline Long Sections – Sheet 10	00001-100006-CAMEST-ZZZ-LAY-Z-9710	CO1	S4
4.14.11	4.14.11 Design Plans – Waterbeach Pipeline Long Sections – Sheet 11	00001-100006-CAMEST-ZZZ-LAY-Z-9711	CO1	S4
4.14.12	4.14.12 Design Plans – Waterbeach Pipeline Long Sections – Sheet 12	00001-100006-CAMEST-ZZZ-LAY-Z-9711	CO2	S4



C02	13/10/23	FOR REVISED DCO SUBMISSION	S4	JJP	MR	MH	DES'D: XLI	DATE: 13/10/23	DRAWN: JJP	DATE: 13/10/23	CHK'D: MR	DATE: 13/10/23	APP'D: MH	DATE: 13/10/23	SCALE: 1:10000	@ A1
REV	DATE	DETAILS	STAT	BY	CHK	APP										
CAMBRIDGE WASTE WATER TREATMENT PLANT RELOCATION PROJECT			4.14.0 DESIGN PLANS WATERBEACH PIPELINE LONG SECTIONS KEY PLAN REGULATION 5(2)(o)								The plan is produced by Anglian Water Services Limited, from Ordnance Survey Crown Copyright, Licence 100022432. This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other use of the map data or further copies are not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence. The original document stored in the BIM 360 Doc Project carry the version, suitability code, revision and approval information. Prints are uncontrolled and shall not be used for construction.				A1	
DRAWING No. 00001-100006-CAMEST-ZZZ-LAY-Z-9700											REV. C02 S4					

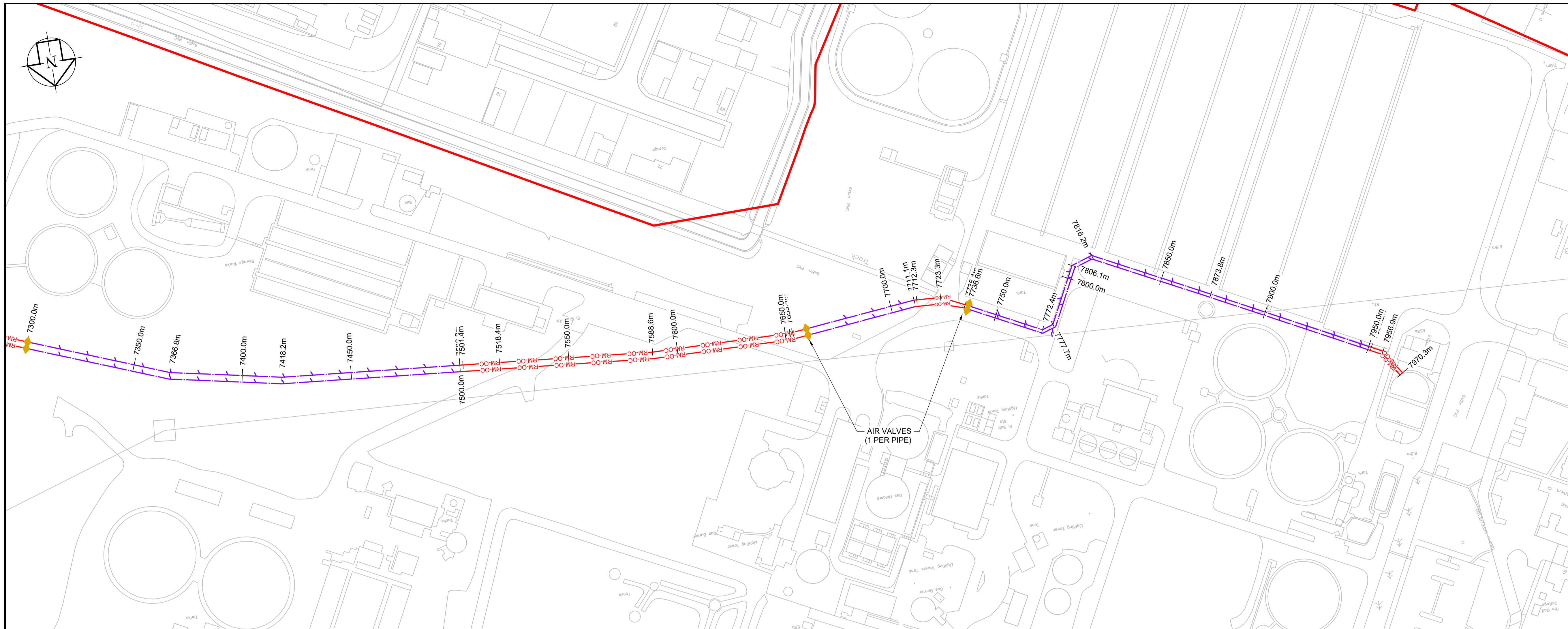


KEY PLAN
GENERAL NOTES

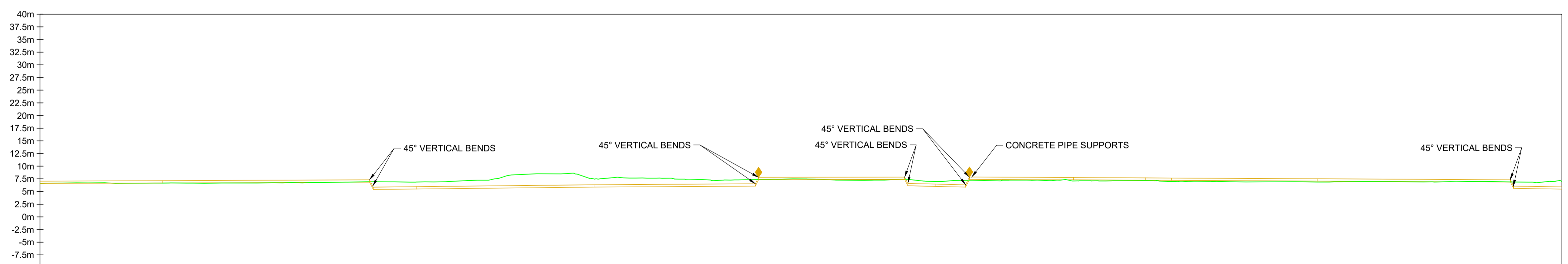
1. WATERBEACH PIPELINE ROUTE IS INDICATIVE.
2. LAYOUT PLANS HAVE BEEN ORIENTATED SO THAT FEATURES ALIGN WITH CROSS SECTIONS.
3. THE LEGEND IS IDENTICAL ON ALL SHEETS OF THE WORKS PLANS AND THEREFORE NOT ALL ITEMS DETAILED IN THE LEGEND ARE REPRESENTED ON EACH SHEET.
4. PE = POLYETHYLENE.
5. WATERBEACH PUMPING STATION IS TO BE CONFIRMED AT DETAIL DESIGN STAGE AND MAY BE LOCATED FURTHER NORTH WITHIN THE FIELD OR EXISTING WATERBEACH WATER RECYCLING CENTRE SITE.

LEGEND

- SCHEME ORDER LIMITS
- LAND OUTSIDE SCHEME ORDER LIMITS
- PROPOSED TWIN 500mm DIAMETER PE SEWER RISING MAINS BY OPEN CUT
- PROPOSED TWIN 500mm DIAMETER PE SEWER RISING MAINS BY DIRECTIONAL DRILL
- PROPOSED TWIN 500mm DIAMETER PE SEWER RISING MAINS BY TUNNELLING
- PROPOSED TWIN 500mm DIAMETER PE SEWER RISING MAINS ABOVE GROUND
- LAUNCH AND RECEPTION PIT FOR DIRECTIONAL DRILL
- INDICATIVE AIR VALVE LOCATION
- EXISTING SURFACE WATERCOURSE
- EXISTING GROUND LEVEL
- PROPOSED TWIN 500mm DIAMETER SEWER RISING MAINS IN SECTION

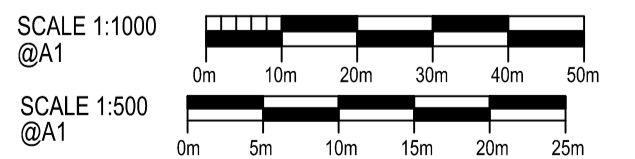


PLAN
1:1000



CHAINAGE (m)	EXISTING GROUND LEVEL (m)	DEPTH TO INVERT (m)	INVERT LEVEL (m)	PIPE GRADIENT	PIPE DETAILS
7370.0	6.570	-0.047	6.616	1:501	TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7380.0	6.670				
7390.0	6.721				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7400.0	6.595				
7410.0	6.629				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7418.2	6.666	-0.047	6.713	1:187	
7430.0	6.656				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7440.0	6.663				
7450.0	6.680				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7460.0	6.710				
7470.0	6.760				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7480.0	6.774				
7490.0	6.838				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7500.0	6.934	0.058	6.876	1:187	
7510.0	6.930				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7518.4	6.886	-1.336	5.527	1:187	
7520.0	6.949				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7530.0	6.949				
7540.0	7.194				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7550.0	7.546				
7560.0	8.371				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7570.0	8.497				
7580.0	8.610				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7598.6	7.480	1.579	5.901	1:126	
7600.0	7.489				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7610.0	7.632				
7620.0	7.529				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7630.0	7.367				
7640.0	7.266				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7650.0	7.346				
7660.0	7.348				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7662.2	7.348	1.250	6.099	1:184	
7663.0	7.412				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7670.0	7.484				
7680.0	7.346				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7690.0	7.238				
7700.0	7.250				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7710.0	7.414	0.000	7.415	1:396	
7712.3	7.401				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7723.3	6.980	0.947	6.033	1:396	
7730.0	7.166				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7736.6	7.136	1.250	5.882	1:396	
7740.0	7.146				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7750.0	7.230				
7760.0	7.242				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7770.0	7.188	-0.114	7.343	1:396	
7772.4	7.188	-0.238	7.329	1:396	TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7773.7	7.188				
7790.0	7.087				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7800.0	7.130				
7806.1	7.146	-0.108	7.257	1:396	TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7810.0	7.118				
7816.2	6.981	-0.251	7.232	1:396	TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7820.0	6.936				
7830.0	6.957				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7840.0	6.930				
7850.0	6.912				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7860.0	6.932				
7870.0	6.903	-0.211	7.087	1:396	TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7873.8	6.875				
7880.0	6.900				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7890.0	6.939				
7900.0	6.931				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7910.0	6.913				
7920.0	6.883				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7930.0	6.949				
7940.0	6.990				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7950.0	6.894	0.000	6.894	1:124	
7951.2	6.881				TWIN DN400 D.I. PIPES LAID AT GROUND LEVEL
7956.9	6.855	1.257	5.599	1:125	
7960.0	6.760				TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
7970.0	7.054	1.500	5.492	1:500	
7970.3	6.992				

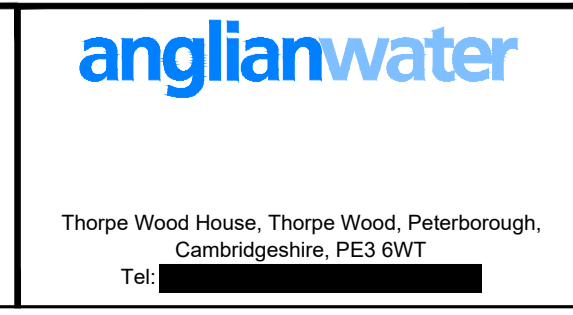
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CHK'D: MR	DATE: 20/01/23	
APP'D: MH	DATE: 20/01/23	
STAT BY: JJP	CHK APP: MR MH	

PROJECT TITLE
CAMBRIDGE WASTE WATER TREATMENT PLANT RELOCATION PROJECT

DRAWING TITLE
4.14.1 DESIGN PLANS WATERBEACH PIPELINE LONG SECTIONS SHEET 1 REGULATION 5(2)(o)



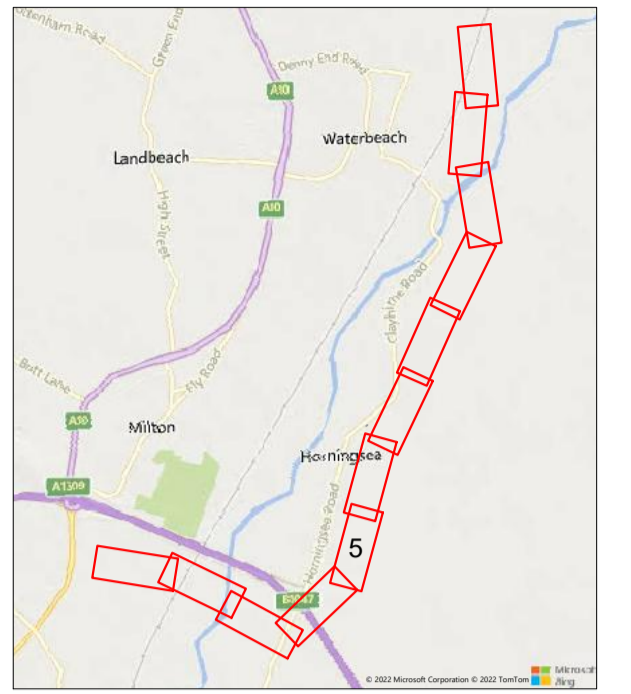
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SCALE 1:1000 @A1

SCALE 1:500 @A1

REV. **A1**

REV. **C01 S4**



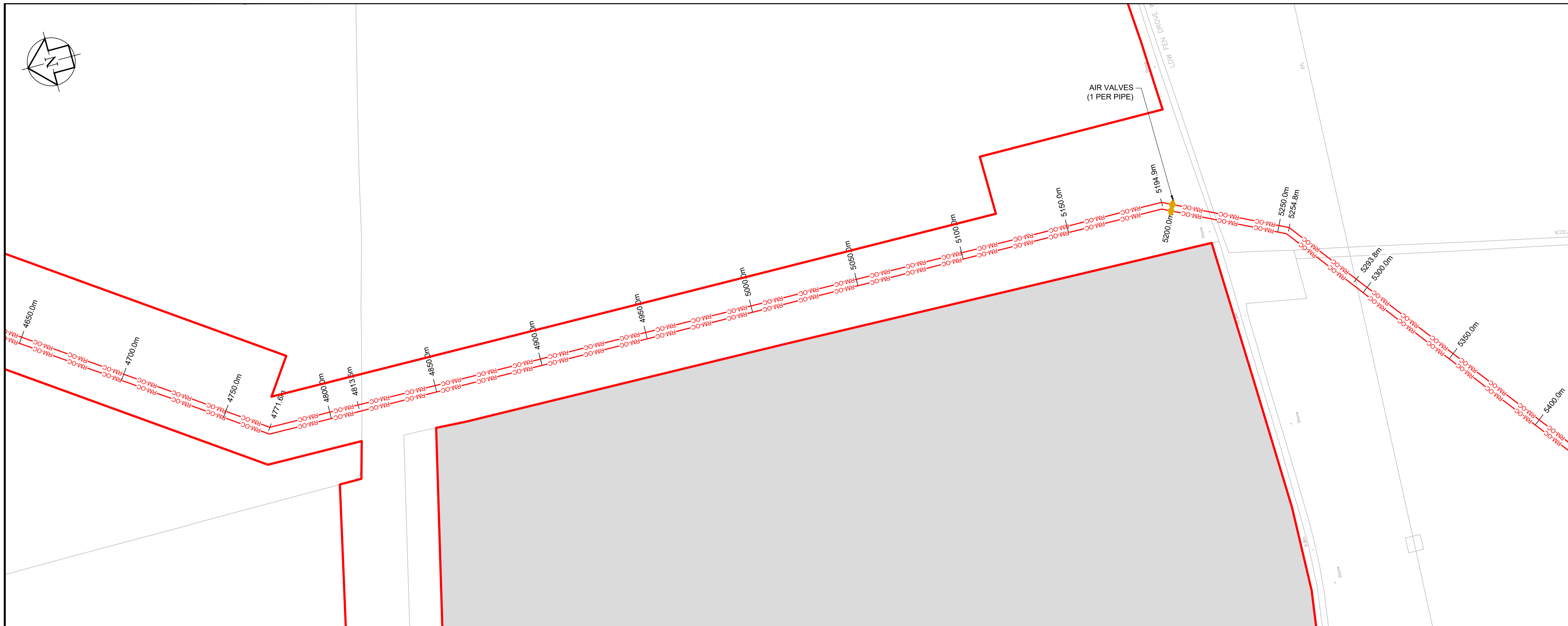
KEY PLAN

GENERAL NOTES

1. WATERBEACH PIPELINE ROUTE IS INDICATIVE.
2. LAYOUT PLANS HAVE BEEN ORIENTATED SO THAT FEATURES ALIGN WITH CROSS SECTIONS.
3. THE LEGEND IS IDENTICAL ON ALL SHEETS OF THE WORKS PLANS AND THEREFORE NOT ALL ITEMS DETAILED IN THE LEGEND ARE REPRESENTED ON EACH SHEET.
4. PE = POLYETHYLENE.
5. WATERBEACH PUMPING STATION IS TO BE CONFIRMED AT DETAIL DESIGN STAGE AND MAY BE LOCATED FURTHER NORTH WITHIN THE FIELD OR EXISTING WATERBEACH WATER RECYCLING CENTRE SITE.

LEGEND

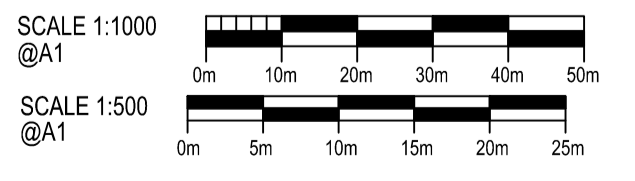
- SCHEME ORDER LIMITS
- LAND OUTSIDE SCHEME ORDER LIMITS
- PROPOSED TWIN 500mm DIAMETER PE SEWER RISING MAINS BY OPEN CUT
- PROPOSED TWIN 500mm DIAMETER PE SEWER RISING MAINS BY DIRECTIONAL DRILL
- PROPOSED TWIN 500mm DIAMETER PE SEWER RISING MAINS BY TUNNELLING
- PROPOSED TWIN 500mm DIAMETER PE SEWER RISING MAINS ABOVE GROUND
- LAUNCH AND RECEPTION PIT FOR DIRECTIONAL DRILL
- INDICATIVE AIR VALVE LOCATION
- EXISTING SURFACE WATERCOURSE
- EXISTING GROUND LEVEL
- PROPOSED TWIN 500mm DIAMETER SEWER RISING MAINS IN SECTION



PLAN
1:1000

CHAINAGE (m)	EXISTING GROUND LEVEL (m)	DEPTH TO INVERT (m)	INVERT LEVEL (m)	PIPE GRADIENT	PIPE DETAILS
4690.0	8.013	2.000	6.013	1:500	TWIN 500mm PE100 SDR11 PIPES BY OPEN CUT
4700.0	8.031				
4710.0	8.087				
4720.0	8.139				
4730.0	8.159				
4750.0	8.273				
4760.0	8.286				
4770.0	8.287	2.110	6.176		
4780.0	8.358				
4790.0	8.437				
4800.0	8.465			1:500	
4810.0	8.412				
4813.5	8.417				
4820.0	8.676				
4830.0	8.612				
4840.0	8.637				
4850.0	8.604				
4860.0	8.660				
4870.0	8.650				
4880.0	8.654				
4890.0	8.722				
4900.0	8.781	2.348	6.433		
4910.0	8.763				
4920.0	8.774				
4930.0	8.786			1:500	
4940.0	8.772				
4950.0	8.794				
4960.0	8.796				
4970.0	8.795				
4980.0	8.836				
4990.0	8.924				
5000.0	9.018				
5010.0	9.085				
5020.0	9.093				
5030.0	9.086				
5040.0	9.093				
5050.0	9.132	2.399	6.733		
5060.0	9.149				
5070.0	9.156				
5080.0	9.183				
5090.0	9.155				
5100.0	9.122				
5110.0	9.095				
5120.0	9.089			1:272	
5130.0	9.055				
5140.0	9.029				
5150.0	9.011				
5160.0	8.999				
5170.0	9.021				
5180.0	9.089				
5190.0	9.108				
5194.9	9.167				
5200.0	9.257	1.900	7.267		
5210.0	9.404				
5220.0	9.916			1:67	
5230.0	9.921				
5240.0	9.957				
5250.0	10.000				
5254.8	10.066	1.900	8.166		
5260.0	10.152				
5270.0	10.511			1:480	
5280.0	10.763				
5290.0	10.532				
5293.8	10.501	2.253	8.247		
5300.0	10.449				
5310.0	10.389				
5320.0	10.347			1:480	
5330.0	10.309				
5340.0	10.232				
5350.0	10.236				
5360.0	10.279	1.694	8.385		

NEW FOUL RM - LONGSECTION 5 OF 12
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APP'D: MH	DATE: 20/01/23	
STAT BY	CHK APP	
C01	20/01/23	FOR DCO SUBMISSION
REV	DATE	DETAILS

PROJECT TITLE

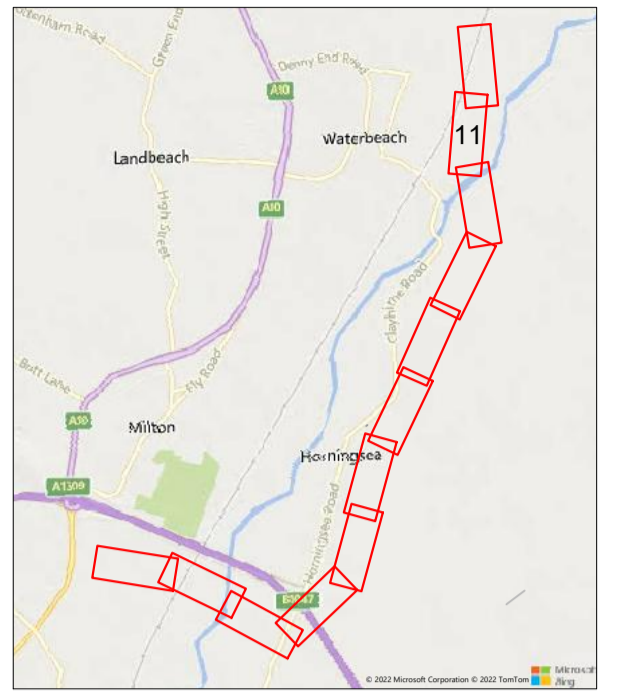
**CAMBRIDGE WASTE WATER
TREATMENT PLANT
RELOCATION PROJECT**

DRAWING TITLE

**4.14.5 DESIGN PLANS
WATERBEACH PIPELINE
LONG SECTIONS SHEET 5
REGULATION 5(2)(o)**

Thorpe Wood House, Thorpe Wood, Peterborough,
Cambridgeshire, PE3 6WT
Tel: [REDACTED]

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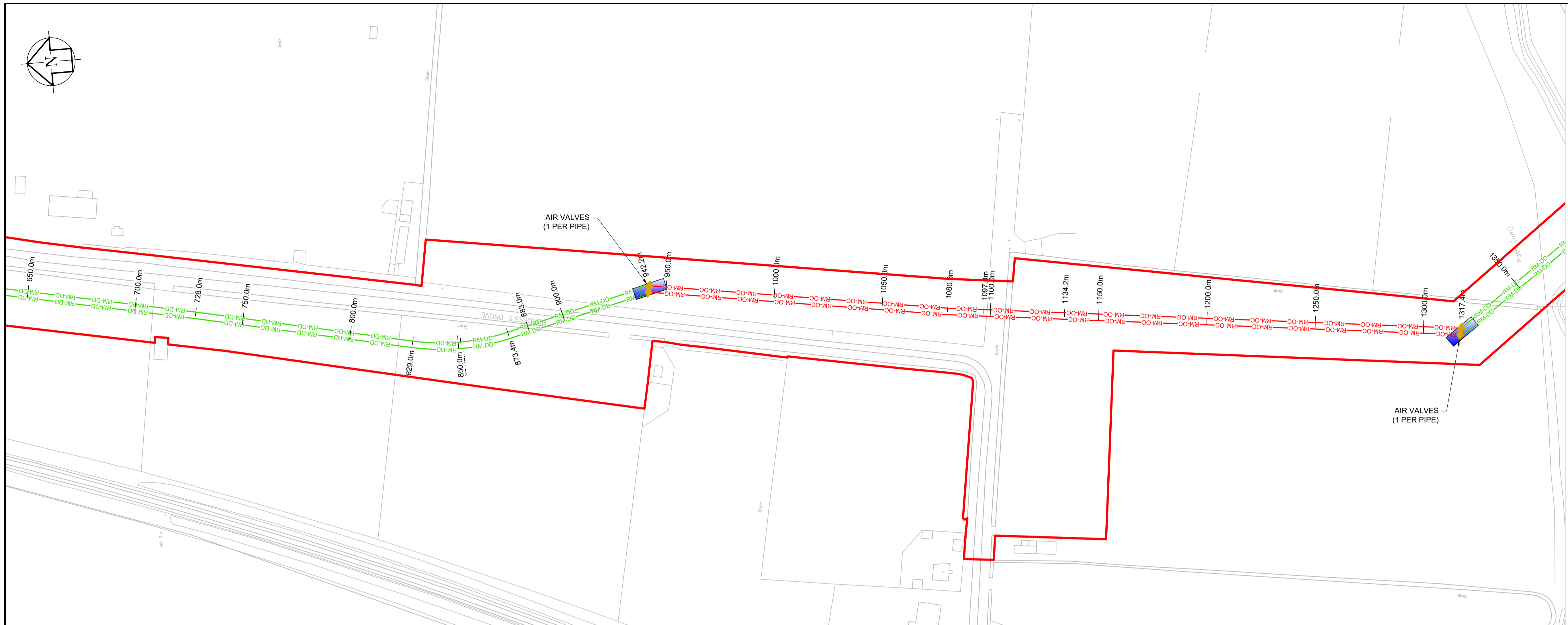
KEY PLAN

GENERAL NOTES

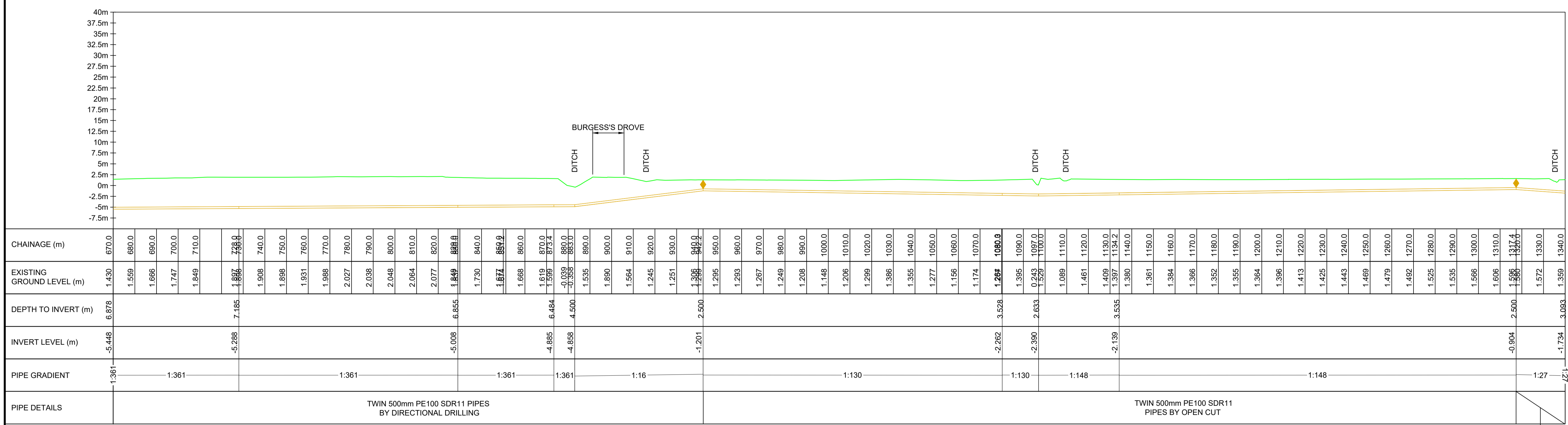
1. WATERBEACH PIPELINE ROUTE IS INDICATIVE.
2. LAYOUT PLANS HAVE BEEN ORIENTATED SO THAT FEATURES ALIGN WITH CROSS SECTIONS.
3. THE LEGEND IS IDENTICAL ON ALL SECTIONS OF THE WORKS PLANS AND THEREFORE NOT ALL ITEMS DETAILED IN THE LEGEND ARE REPRESENTED ON EACH SHEET.
4. PE = POLYETHYLENE.
5. WATERBEACH PUMPING STATION IS TO BE CONFIRMED AT DETAIL DESIGN STAGE AND MAY BE LOCATED FURTHER NORTH WITHIN THE FIELD OR EXISTING WATERBEACH WATER RECYCLING CENTRE SITE.

LEGEND

- SCHEME ORDER LIMITS
- LAND OUTSIDE SCHEME ORDER LIMITS
- PROPOSED TWIN 500mm DIAMETER PE SEWER RISING MAINS BY OPEN CUT
- PROPOSED TWIN 500mm DIAMETER PE SEWER RISING MAINS BY DIRECTIONAL DRILL
- PROPOSED TWIN 500mm DIAMETER PE SEWER RISING MAINS BY TUNNELLING
- PROPOSED TWIN 500mm DIAMETER PE SEWER RISING MAINS ABOVE GROUND
- LAUNCH AND RECEPTION PIT FOR DIRECTIONAL DRILL
- INDICATIVE AIR VALVE LOCATION
- EXISTING SURFACE WATERCOURSE
- EXISTING GROUND LEVEL
- PROPOSED TWIN 500mm DIAMETER SEWER RISING MAINS IN SECTION



PLAN
1:1000

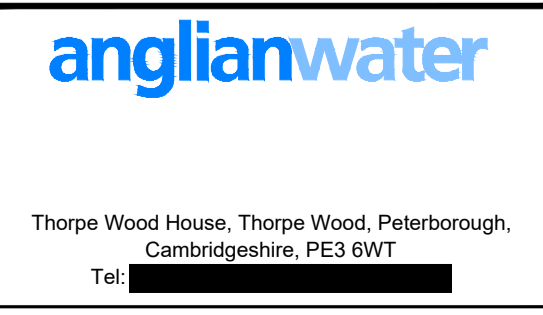


NEW FOUL RM - LONGSECTION 11 OF 12
SCALE: HORIZONTAL 1:1000, VERTICAL 1:500. DATUM: (-10.00m)

TWIN 500mm PE100 SDR11 PIPES EACH WITHIN 710mm PE100 SDR17 SLEEVE BY DIRECTIONAL DRILLING
SCALE 1:1000 @A1
SCALE 1:500 @A1

DES'D: XLI	DATE: 20/01/23	SCALE: 1:2000 @A1				
DRAWN: JJP	DATE: 20/01/23					
CHK'D: MR	DATE: 20/01/23	PROJECT TITLE CAMBRIDGE WASTE WATER TREATMENT PLANT RELOCATION PROJECT				
APP'D: MH	DATE: 20/01/23					
C01	20/01/23	FOR DCO SUBMISSION	S4	JJP	MR	MH
REV	DATE	DETAILS	STAT	BY	CHK	APP

DRAWING TITLE
4.14.11 DESIGN PLANS WATERBEACH PIPELINE LONG SECTIONS SHEET 11 REGULATION 5(2)(o)



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DRAWING No. **00001-100006-CAMEST-ZZZ-LAY-Z-9711**

REV. **A1**
C01 S4

Get in touch

You can contact us by:



Emailing at info@cwwtpr.com



Calling our Freephone information line on **0808 196 1661**



Writing to us at **Freepost: CWWTPR**

You can view all our DCO application documents and updates on the application on The Planning Inspectorate website:

<https://infrastructure.planninginspectorate.gov.uk/projects/eastern/cambridge-waste-water-treatment-plant-relocation/>