



**advant**  
ENGINEERS

**YEW TREE ROAD  
BIRCHENCLIFFE  
HUDDERSFIELD  
HD2 2FY**

**CONSTRUCTION PHASE  
TEMPORARY DRAINAGE  
PLAN**

DOCUMENT No:  
22046-DSR-001-B

22<sup>nd</sup> November 2024

**Issue Sheet.**

<b>Prepared</b>	<b>Date</b>		<b>Checked</b>	<b>Date</b>
MJM	08.08.24		MJM	08.08.24

<b>Revisions</b>	<b>Comment</b>	<b>Date</b>
A	Initial Issue	08.08.24
B	Updated to LLFA comments	22.11.24

The report is based on the information that has been acquired and / or made available to Advant Engineers via the various searches and consultations undertaken as part of the Drainage Strategy. In some cases, anecdotal information has been relied upon, where documented evidence has been lacking.

The conclusions drawn in the above report are considered correct although any subsequent additional information may allow refinement of the conclusions.

All work carried out in preparing this report has utilised and is based upon Advant Engineers current professional knowledge and understanding of current UK standards and codes, technology and legislation. Changes in this legislation and guidance may occur at any time in the future and cause any conclusions to become inappropriate or incorrect.

This report has been prepared using information contained in maps and documents prepared by others. Advant Engineers can accept no responsibility for the accuracy of such information.

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## **1. Introduction**

- 1.1. Advant Engineers Ltd has been commissioned by North Park Homes to undertake the drainage design at the scheme off Yew Tree Road in Birchendcliffe.
- 1.2. This report is to outline the temporary drainage scheme for the site and how surface water runoff can be controlled, treated and managed until such a point that the permanent drainage has been installed and the outfall connected to the public sewer.
- 1.3. This report should be read in conjunction with drawing 22046-112 and 22046-113 and associated architectural and engineering drawings.

## **2. Existing Site**

- 2.1. The site currently is a greenfield piece of land with no existing development and located on the junction of Yew Tree Road and Burn Road with access from Yew Tree Road, the overall site area is 9,425m<sup>2</sup> (0.942ha). (See Appendix for Impermeable area plan).
- 2.2. This site can be located at the following co-ordinates 411990E, 419000N and the nearest postcode is HD2 2FY and can be seen on the below extract.
- 2.3. Based on the soakaway tests within the site investigation the ground is not permeable and therefore we expect very little in the terms of infiltration of the surface water.

## **3. Construction Phase Temporary Drainage**

- 3.1. Once the site has been stripped then the exposed ground material will allow surface water to run over the exposed surface.
- 3.2. We have assessed the topographical survey of the site to determine the flow paths of the surface water runoff, this is shown on drawing 22046-112. As demonstrated on this drawing all surface water flows will migrate from the north-west to the south-east of the site where the natural low point occurs, the site gradient is of a fairly steady and consistent nature with no intermediate high or low points that would capture or impeded the flow.

- 3.3. A series of measures are therefore required to manage, treat and store this surface water in rainfall events, we have therefore proposed a series of silt fences across the site, these should be erected across the full area of the site and removed as development progresses. The site fences will slow down the flows as they water passes through each one as well as remove any silt and debris caught up in the flows, these fences must be cleaned out after every rainfall event.
- 3.4. In addition to the site fences we need to be above to capture and store the 1 in 1 year 6 hour rainfall event on site, and prevent it flowing offsite, this has been achieved by creating 2 bunded areas that will capture the flows and prevent them leaving site, this is as shown on drawing 224046-112. Once every rainfall event has passed the ponds should be pumped a siltbuster before discharging to the water course, a sump should be dug in the centre of the pond that a submersible pump can be dropped into as and when it is needed.
- 3.5. Each of the bunds has been sized to accommodate 90m<sup>3</sup> of storage in each one (180m<sup>3</sup> in total), the maximum bund height is 1.3m and the area calculated for the storage of surface water runoff is 90m<sup>2</sup>, this leaves 300mm before the bunds would overtop.
- 3.6. Once the permanent drainage has been installed then the road gullies will pick up the rainfall from the road surface, however prior to the completion of the site then construction traffic will still utilise the roads in and out of the site, therefore management and maintenance of the gullies and attenuation tank should be routinely maintained throughout the construction phase, this should include the vacuuming of the sumps within the gullies and jet vacuuming the pipes to keep them clear of sediment and silt.
- 3.7. A wheel washing station should be located at the site entrance to prevent any debris or mud leaving site, and routinely the road should be cleaned down with a road sweeper.
- 3.8. In the event of an emergency the contact details for Yorkshire Water and the LLFA should be made available in the site office, all workers should be trained in the operation of the temporary drainage and the importance of preventing contamination events of the watercourse.
- 3.9. Siltbuster offer a testing service where they will record the level of water and sediment in the container and routinely test the water, these should be adopted and the records kept on site for inspection by the LLFA as and when required.

## 4. Temporary Drainage Management Plan

4.1. Therefore, a schedule of inspections and maintenance needs to be undertaken until the development has been completed and all construction work has ceased, we have scheduled the tasks in the table below.

<b>DRAINAGE ELEMENT</b>	<b>TASK</b>	<b>FREQUENCY</b>
SILT FENCE	Clean out all debris and silt	After every rainfall event
SILT FENCE	Inspect posts on fence to ensure structural stability	Once a week
SILT FENCE	Inspect posts on fence to ensure structural stability	After every rainfall event
BUNDS	Pump out water via a siltbuster system	After every rainfall event
BUNDS	Ensure base of bund does not rise with the build up of silt, therefore reducing the storage capacity	After every rainfall event
ROAD GULLIES	Vacuum clean the sumps in each gully to prevent silt entering the public sewer	Once a week
SILTBUSTER	Siltbuster will check and maintain the equipment, site operatives should have the contact number should the device fail and report it immediately	Upon failure of the siltbuster

## 5. Temporary Drainage Exceedance Management Plan

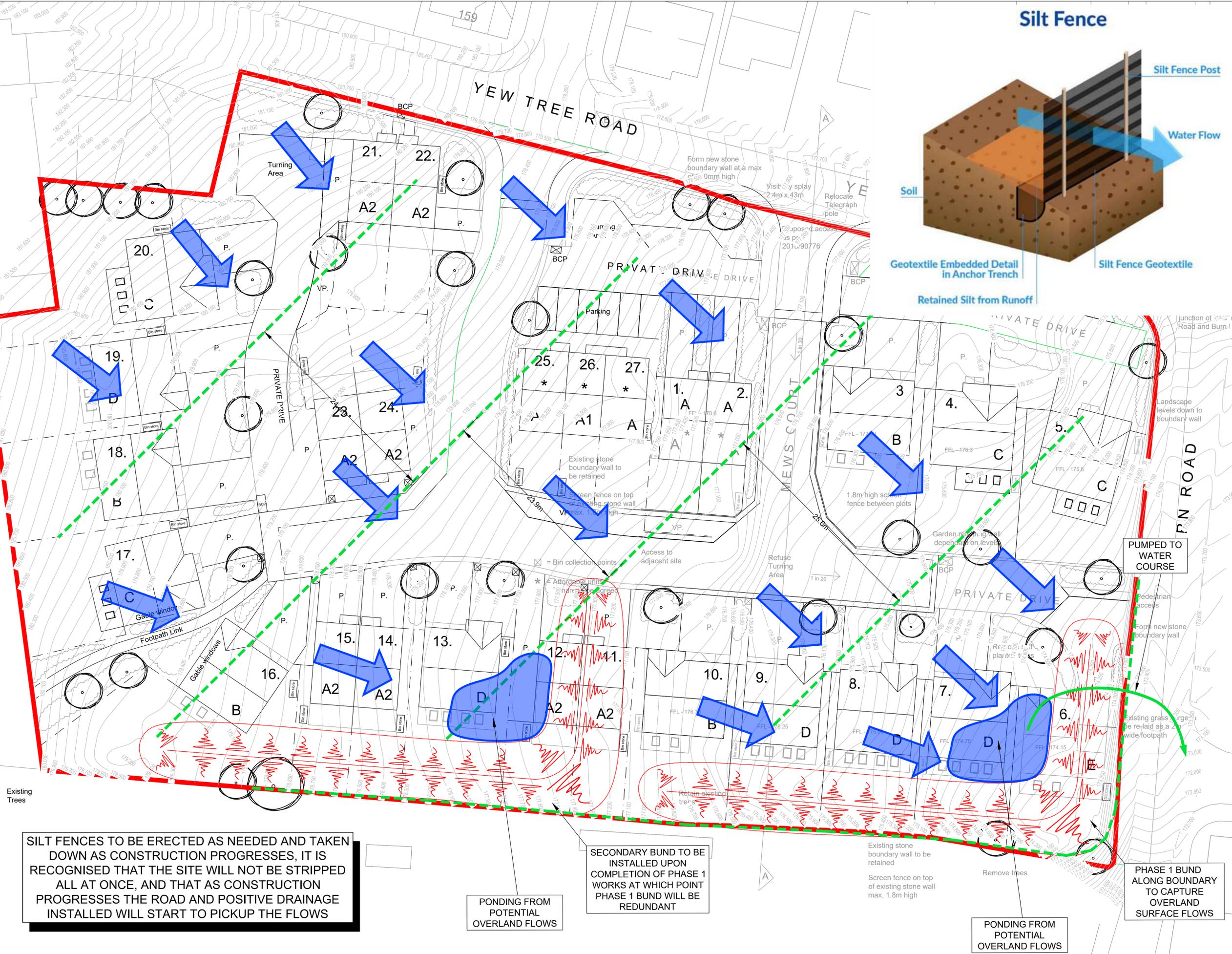
5.1. Consideration also has to be given to rainfall exceedance events, the weather forecast should be checked on a daily basis, if extreme rainfall is predicted then the action plan below should be enacted.

5.2. In the eventuality that the bunds fill up and water will over top, it will flow down Burn Road and enter the watercourse, for these instance we have included a silt fence along the boundary to as to minimise the amount of silt that might make its way into the watercourse.

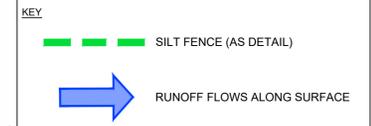
5.3. The water will follow the fall of Burn Road using it as a channel before flowing into the watercourse, there are no properties along this path that would be at risk of flooding, and this of course is only during the construction phase of the scheme.

5.4. However, the above should be avoided wherever possible and the bunds pumped to the watercourse via the siltbuster, in cases where this is insufficient then a tanker should be made available for disposal off-site.

**APPENDIX**



- NOTES**
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  6. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ADVANT ENGINEERS DRAWINGS AND SPECIFICATIONS.



B	UPDATED TO LLFA COMMENTS	MJM	08.08.24
A	INITIAL ISSUE	MJM	16.01.23
REV	AMENDMENTS	BY	DATE

**PRELIMINARY**

STATUS	PRELIMINARY	CHK'D	MJM
	FOR COMMENT		
	FOR APPROVAL		
	FOR CONSTRUCTION		
	AS BUILT		

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CLIENT  
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CONTRACT  
**YEW TREE ROAD  
BIRCHENCLIFFE  
HUDDERSFIELD**

TITLE  
**CONSTRUCTION PHASE  
SURFACE WATER  
MANAGEMENT PLAN**

DRAWN	MJM	CHK'D	MJM
SCALE	1:200 @ A1	DATE	16.01.23

JOB No	DRG No	REV
22046	112	B

**SILT FENCES TO BE ERECTED AS NEEDED AND TAKEN DOWN AS CONSTRUCTION PROGRESSES, IT IS RECOGNISED THAT THE SITE WILL NOT BE STRIPPED ALL AT ONCE, AND THAT AS CONSTRUCTION PROGRESSES THE ROAD AND POSITIVE DRAINAGE INSTALLED WILL START TO PICKUP THE FLOWS**

PONDING FROM POTENTIAL OVERLAND FLOWS

SECONDARY BUND TO BE INSTALLED UPON COMPLETION OF PHASE 1 WORKS AT WHICH POINT PHASE 1 BUND WILL BE REDUNDANT

PONDING FROM POTENTIAL OVERLAND FLOWS

PHASE 1 BUND ALONG BOUNDARY TO CAPTURE OVERLAND SURFACE FLOWS

YW REF NO:  
**H-3-264-976**

- YW NOTES:**
- ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH 'CODE FOR ADOPTION'. THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.
  - MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
  - FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
  - YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR INDIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION REGARDING THE DISPOSAL OF THE FILTER/LAND DRAINAGE RUN-OFF.
  - THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1.0m AND MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
  - SEWERS MUST HAVE A 5.0m CLEARANCE FROM TREES AND HEDGES OR THE WIDTH OF THE CANOPY AT MATURE HEIGHT.
  - SEWERS TO BE LAID IN CLASS 'S' BEDDING (150mm GRANULAR BED AND SURROUND), WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (OR LESS THAN 0.9m IN NON VEHICULAR ACCESS AREAS) THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND.
  - BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2).
  - YORKSHIRE WATER POLICY IS THAT TYPE 'C' BRICK MANHOLES AND 1050mm DIAMETER MANHOLES RINGS ARE NOT PREFERRED. INSTEAD, IT IS PREFERRED THAT YOU USE A TYPE 'B' MANHOLE WITH 1200mm DIAMETER OR 1500mm DIAMETER RINGS, WITH THE OPENING SITED OVER THE CHANNEL WHERE THE DEPTH OF COVER TO THE PIPE IS 1.0m - 1.5m.
  - ADOPTABLE PLASTIC SEWER PIPES TO BE BSI KITEMARKED (CERTIFIED TO WIS 4-35-01 AND BS EN 13476). ADOPTABLE PLASTIC SEWER PIPES TO BE LAID IN MAXIMUM 3 METRE LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD REQUIRE CLAYWARE CHANNELS IN MANHOLES.
  - THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100mm DIA 40kN/M, 150mm DIA 40kN/M, 225mm DIA 45kN/M, 300mm DIA 72kN/M. THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE - (CLASS 120 TO EN 1916 / BS 5911-1 2002), PLASTIC PIPES SHOULD CONFORM TO WIS 4-35-01 AND BS EN 13476.
  - WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.
  - THERE MUST BE ENOUGH CLEARANCE AT CROSSOVERS TO ACCOMMODATE BEDDING TO BOTH PIPES, APPROX. 300mm - IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY NEED TO BE INCREASED.

PHASE: 0							
MH No.	MANHOLE DIAMETER (mm)	MANHOLE TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)
EXMH	-	-	168.850	167.300	1.400	412010.904	418916.266
PS1	450	Type E	179.800	178.300	1.100	411912.360	419004.388
PS2	450	Type E	179.100	178.200	0.750	411924.962	419004.851
PS3	450	Type E	179.700	178.450	1.100	411943.641	419033.876
PS4	900	Type D	178.379	175.800	2.429	411941.763	418990.951
PS5	900	Type D	178.000	174.875	2.975	411956.680	418996.139
PS6	900	Type D	177.320	174.750	2.420	411966.799	418996.858
PS7	450	Type E	176.200	175.000	1.050	412007.457	419013.613
PS8	900	Type D	175.750	173.150	2.150	411993.491	418981.483
S1	1200	Type B	179.372	177.400	1.672	411922.478	418993.525
S2	1350	Type C	179.419	178.000	1.269	411948.915	419032.394
S3	1350	Type C	179.025	177.350	1.375	411944.734	419017.516
S4	1500	Type B	178.372	175.300	2.772	411942.705	418995.628
S5	1200	Type A	177.681	174.200	3.181	411956.262	418992.898
S6	1200	Type A	177.460	174.125	3.035	411960.461	418991.822
S7	1350	Type B	177.173	173.900	2.823	411966.343	418991.437
S8	1200	Type B	176.200	173.700	0.400	412011.553	419020.025
S9	1200	Type B	177.370	173.650	3.270	411991.640	419022.841
S10	1500	Type A	177.492	173.600	3.442	411982.614	419023.341
S11	1800	Type B	176.486	173.500	2.536	411980.222	418990.293
S12	-	-	-	-	-	411994.098	418989.084
S13	1200	Type B	174.600	172.500	1.950	412016.434	418994.669
S14	1200	Type C	173.145	171.800	1.194	412021.457	418998.710
S15	1200	Type B	179.659	178.000	1.509	411920.979	419004.344
S16	1350	Type C	171.517	170.100	1.267	412019.407	418948.556
F1	1200	Type B	178.351	176.557	1.644	411944.664	418998.083
F2	1350	Type C	177.595	176.000	1.445	411959.128	418994.218
F3	1200	Type B	177.099	175.000	1.949	411969.072	418993.323
F4	1350	Type C	175.865	174.350	1.365	411994.073	418991.371
F5	1200	Type B	174.600	172.100	2.350	412016.813	418986.588
F6	1350	Type C	173.220	171.600	1.470	412022.321	418970.511
F7	1350	Type C	171.659	170.309	1.200	412020.687	418949.607
F8	1350	Type C	169.300	167.950	1.200	412013.898	418923.206
PF1	900	Type D	179.000	177.550	2.150	411937.148	419004.480
PF2	450	Type D	178.270	177.300	0.820	411944.145	418990.520
PF3	900	Type D	177.213	175.330	1.733	411969.349	418996.623
PF4	450	Type E	177.078	175.300	1.628	411968.463	418996.071
PF5	900	Type D	174.700	172.940	2.350	412012.253	418983.474
PF6	900	Type D	175.200	173.500	1.570	412016.214	418993.106

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- KEY:**
- EXISTING COMBINED SEWER
  - EXISTING SW SEWER
  - PROPOSED FOUL SEWER
  - PROPOSED SW SEWER
  - PROPOSED CW SEWER
  - SEWER EASEMENT



REV	DESCRIPTION	BY	DATE
K	UPDATED TO YW COMMENTS	MJM	08.11.24
J	UPDATED TO YW COMMENTS	MJM	19.10.24
I	UPDATED TO YW COMMENTS	MJM	30.09.24
H	UPDATED TO YW COMMENTS	MJM	12.09.24
G	UPDATED TO YW COMMENTS	MJM	24.07.24
F	DRAINAGE UPDATED	MJM	25.05.24
E	DRAINAGE UPDATED	MJM	17.04.24
D	DRAINAGE UPDATED	MJM	05.04.24
C	DRAINAGE UPDATED	MJM	01.03.24
B	DRAINAGE UPDATED	MJM	24.07.23
A	INITIAL ISSUE	MJM	13.06.23
REV	AMENDMENTS	BY	DATE

**FOR APPROVAL**

STATUS	CHK'D
PRELIMINARY	MJM
FOR COMMENT	MJM
FOR APPROVAL	MJM
FOR CONSTRUCTION	
AS BUILT	



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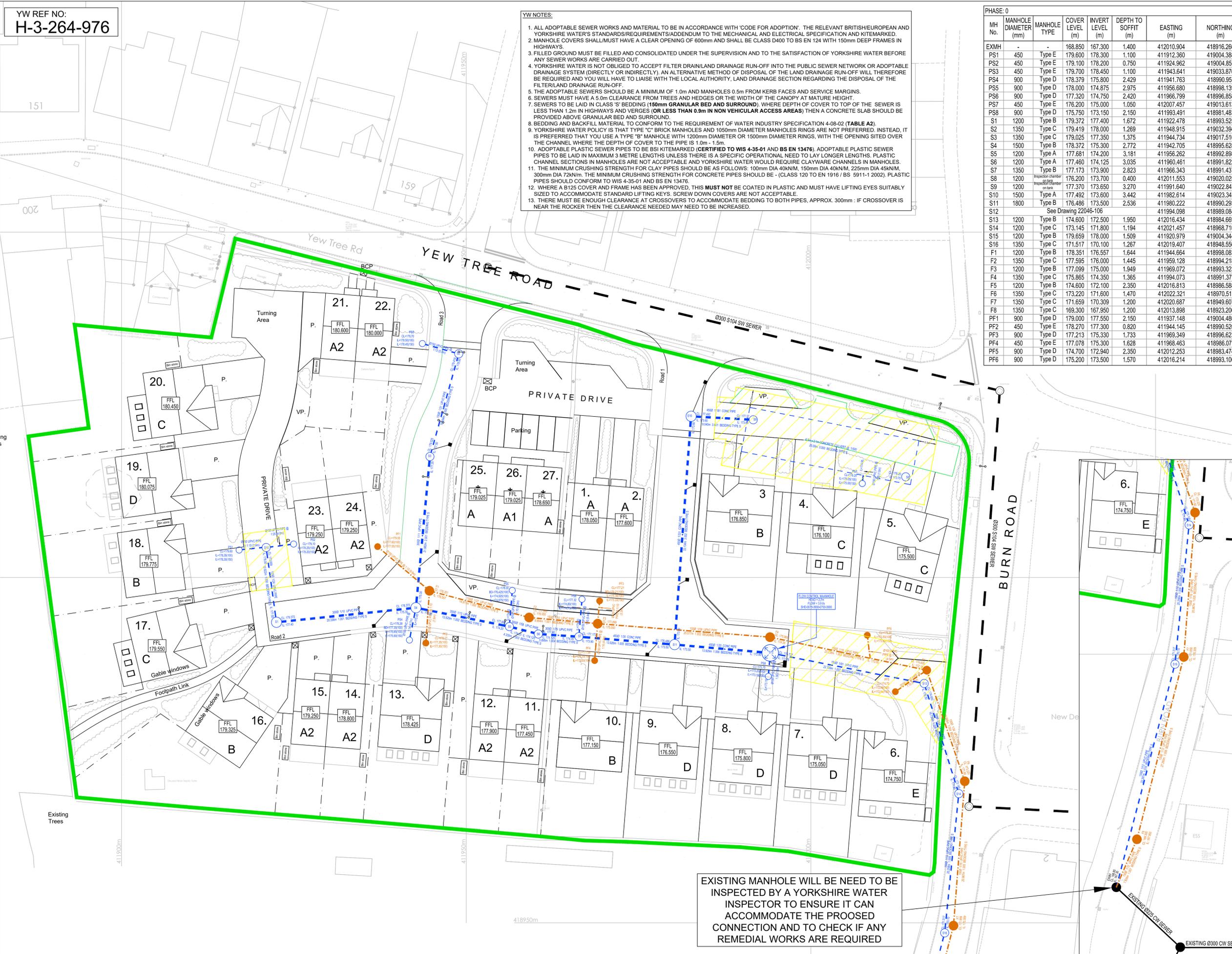
CONTRACT  
**YEW TREE ROAD  
BIRCHENCLIFFE  
HUDDERSFIELD**

TITLE  
**S104 DRAINAGE  
LAYOUT PLAN**

DRAWN	MJM	CHK'D	MJM
SCALE	1:250 @ A1	DATE	13.06.23

JOB No	DRG No	REV
22046	113	K

EXISTING MANHOLE WILL BE NEED TO BE INSPECTED BY A YORKSHIRE WATER INSPECTOR TO ENSURE IT CAN ACCOMMODATE THE PROOSED CONNECTION AND TO CHECK IF ANY REMEDIAL WORKS ARE REQUIRED



YW REF NO:  
H-3-264-976

Manhole No.	Pipe No.	Impermeable Area
S15	1.000	906.009
S1	1.001	497.682
S4	1.002	680.258
S5	1.003	321.892
S6	1.004	0.000
S7	1.005	143.791
S11	1.006	1025.368
S12	1.007	0.000
S13	1.008	0.000
S2	2.000	120.342
S3	2.001	408.033
S8	3.000	595.337
S9	3.001	0.000
S10	3.002	597.528

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KEY



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H	UPDATED TO YW COMMENTS	MJM	30.09.24
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F	UPDATED TO LLFA COMMENTS	MJM	08.08.24
E	UPDATED TO YW COMMENTS	MJM	25.07.24
D	DRAINAGE UPDATED	MJM	05.04.24
C	DRAINAGE UPDATED	MJM	24.07.24
B	UPDATED TO YW COMMENTS DATED 22.06.23	MJM	14.07.23
A	INITIAL ISSUE	MJM	13.06.23

FOR APPROVAL

STATUS	CHK'D
PRELIMINARY	MJM
FOR COMMENT	MJM
FOR APPROVAL	MJM
FOR CONSTRUCTION	MJM
AS BUILT	



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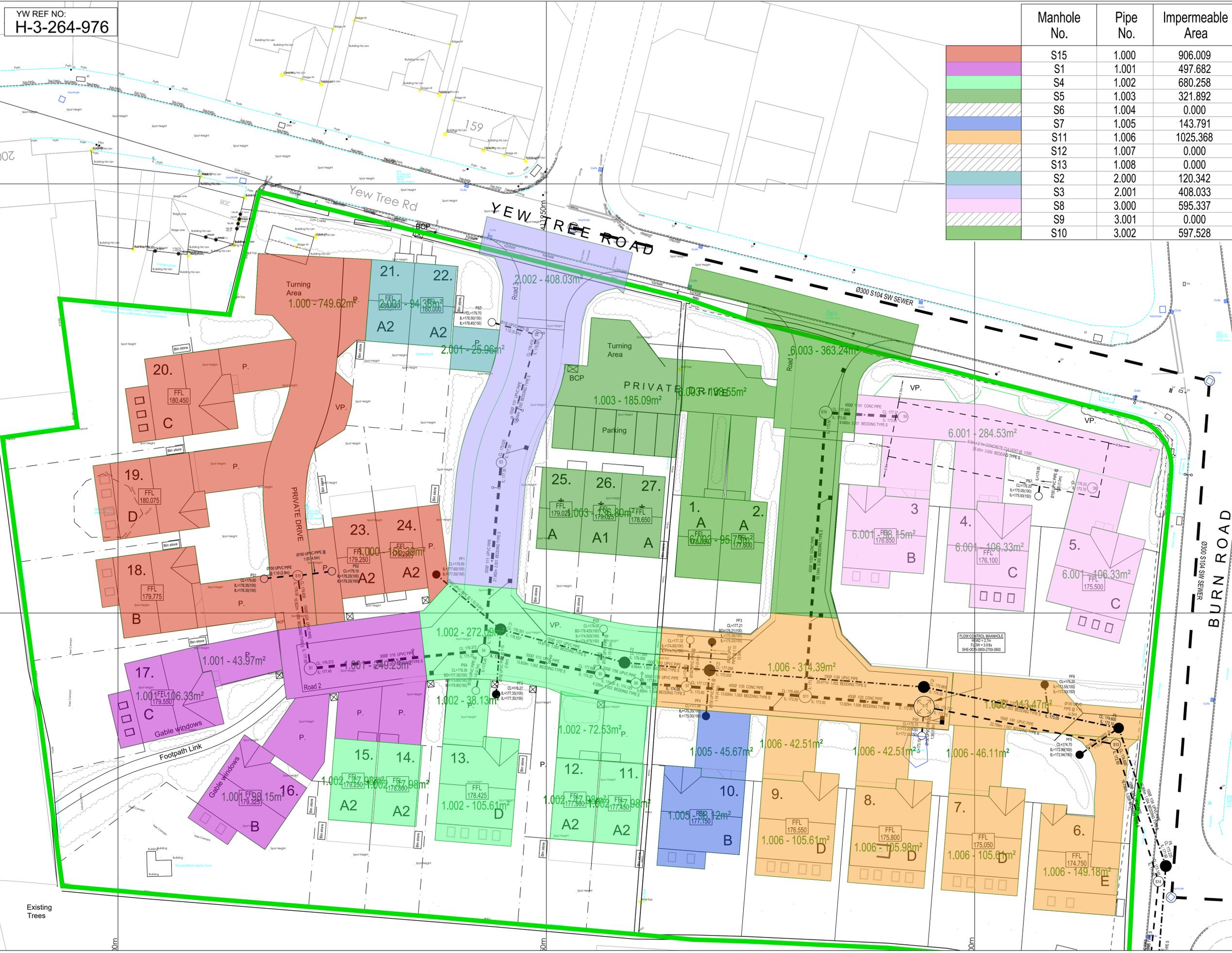
CLIENT  
**NORTH PARK HOMES LTD**

CONTRACT  
**YEW TREE ROAD  
BIRCHENCLIFFE  
HUDDERSFIELD**

TITLE  
**OVERALL SITE  
PROPOSED IMPERMEABLE  
AREA PLAN**

DRAWN	MJM	CHK'D	MJM
SCALE	1:200 @ A1	DATE	13.06.23

JOB No	DRG No	REV
22046	114	I



Existing Trees



# Suspended Solids Removal for Environmental Compliance



**Siltbuster Ltd** are the market leaders in providing rapidly deployable environmental protection using the UK's largest fleet of portable, modular treatment solutions.

Our lamella settlement tanks, automated chemical dosing and reaction tanks will ensure environmental compliance for discharge to a range of locations, including direct to surface controlled waters. Bespoke treatment systems can be built to suit your site from our extensive range of equipment.

- Local Field & Technical Sales Engineers ensure a quick response
- In-house laboratory testing confirms best treatment method & treated water quality achievable
- Automated, flow-proportional chemical dosing for fine solids/clay separation available
- Very compact systems using lamella plates
- Forklift slots and lifting points make positioning easy



CONSTRUCTION



MUNICIPAL



BESPOKE SOLUTIONS



INDUSTRIAL



MINING



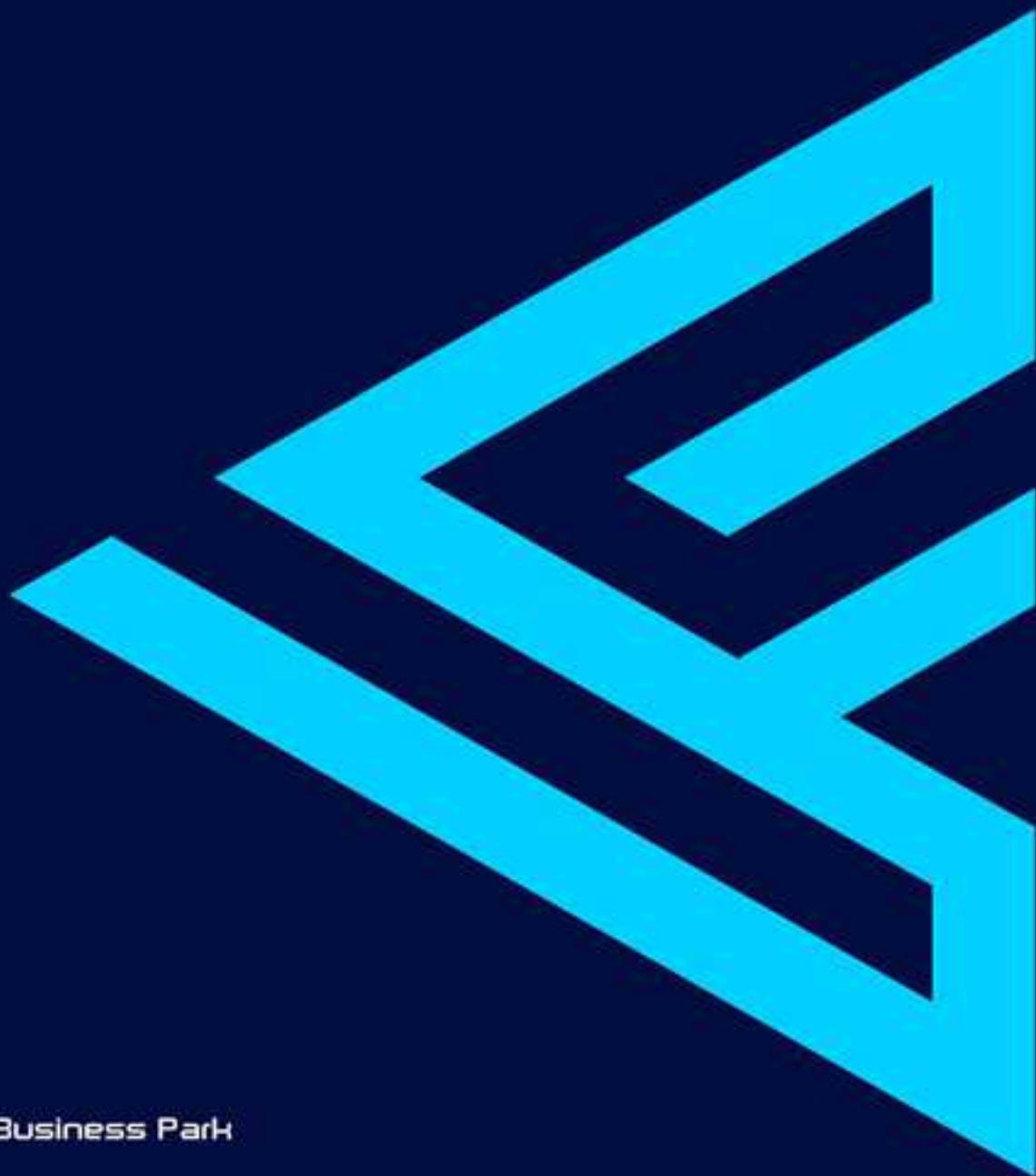
INTERNATIONAL

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