



**advant**  
ENGINEERS

**BANKFIELD DRIVE  
HOLMBRIDGE  
HD9 2QP**

**Method Statement for the removal and  
reinstatement of retaining wall  
(Rev C)**

**13<sup>th</sup> March 2024**

**Issue Sheet.**

Prepared	Date		Checked	Date
M M	28-11-23		M M	28-11-23

Revisions	Comment	Date
A	Initial Issue	28-11-23
B	Updated to client comments	07-02-24
C	Updated to Kirklees Highways comments	13-03-24

The report is based on the information that has been acquired and / or made available to Advant Engineers via the various searches, consultations and reports. 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.

## 1. Scope of Works

- 1.1. The purpose of this Method statement is to provide a safe system of work and must be adhered to at all times, the specific works that this method statement has been developed for is the deconstruction of a highway dry stone retaining wall for the installation of 2 drainage connections and then the reinstatement of the retaining wall, this Method statement is site specific and any variations to the works on site must be reported and the relevant documentation updated accordingly.
- 1.2. The retaining wall spans the full length of the northern boundary to the site and beyond, length of the site boundary is 52.4m, along here the height of the retaining wall ranges from 1.6m – 2.4m in height, this can be seen in (Appendix A).
- 1.3. Below is a location plan of the site along with the identification of the wall that this Method statement refers to, the length of the wall that is affected by the new drainage connections is approximately 9.0m as shown, and approx. 1.6m high in this location, see (Appendix B) for a sketch at this location.



- 1.4. Other than the construction of the new drainage connections the next nearest structure is plot 21, this is located just over 5.0m away from the wall so consideration has to be given on the influence of the foundations from this property, to prevent any loadings from the property being transferred to the wall the foundations have been deepened in this location and founded on the bedrock, see (Appendix A) for plan and section.
- 1.5. It is the responsibility of the on-site manager to ensure that a copy of the construction method statements are always held at the contractor's office and that all the site operatives (including sub-contractors) are fully aware of the requirements set out within the documents.

## **2. Method – Removal of Dry Stone Retaining Wall**

- 2.1. Work should be undertaken from the highway side of the development located on Dobb Top Road which will require this length of road to be closed during the works and diversions put in place, Dobb Top Road is a single track road and provides access to half a dozen properties, parallel to Dobb Top Road is Bank Lane which is a lot wider and can provide access to the end of Dobb Top Road (Appendix C), in an emergency if larger vehicles needed to access one of the 6 properties then road plates could be dropped over the excavation to allow access.
- 2.2. The wall will be dismantled by hand. The stones will then be transported in the bucket of a JCB to be stored within the field, in a location where they will not be disturbed by ongoing activities
- 2.3. Stones will be lifted rather than slid to prevent crushing of any animals, with particular care taken with larger through stones and foundation stones.  
All footing stones will be reset when the wall will be rebuilt.
- 2.4. As the wall is taken down from the top then the retained earth should be excavated out level with the wall, raked back into the site at a 45 degree angle and from behind the remaining wall at the same angle.
- 2.5. Temporary site fence will be constructed in place of the section of wall that acts as a boundary along Dobb Top Road.

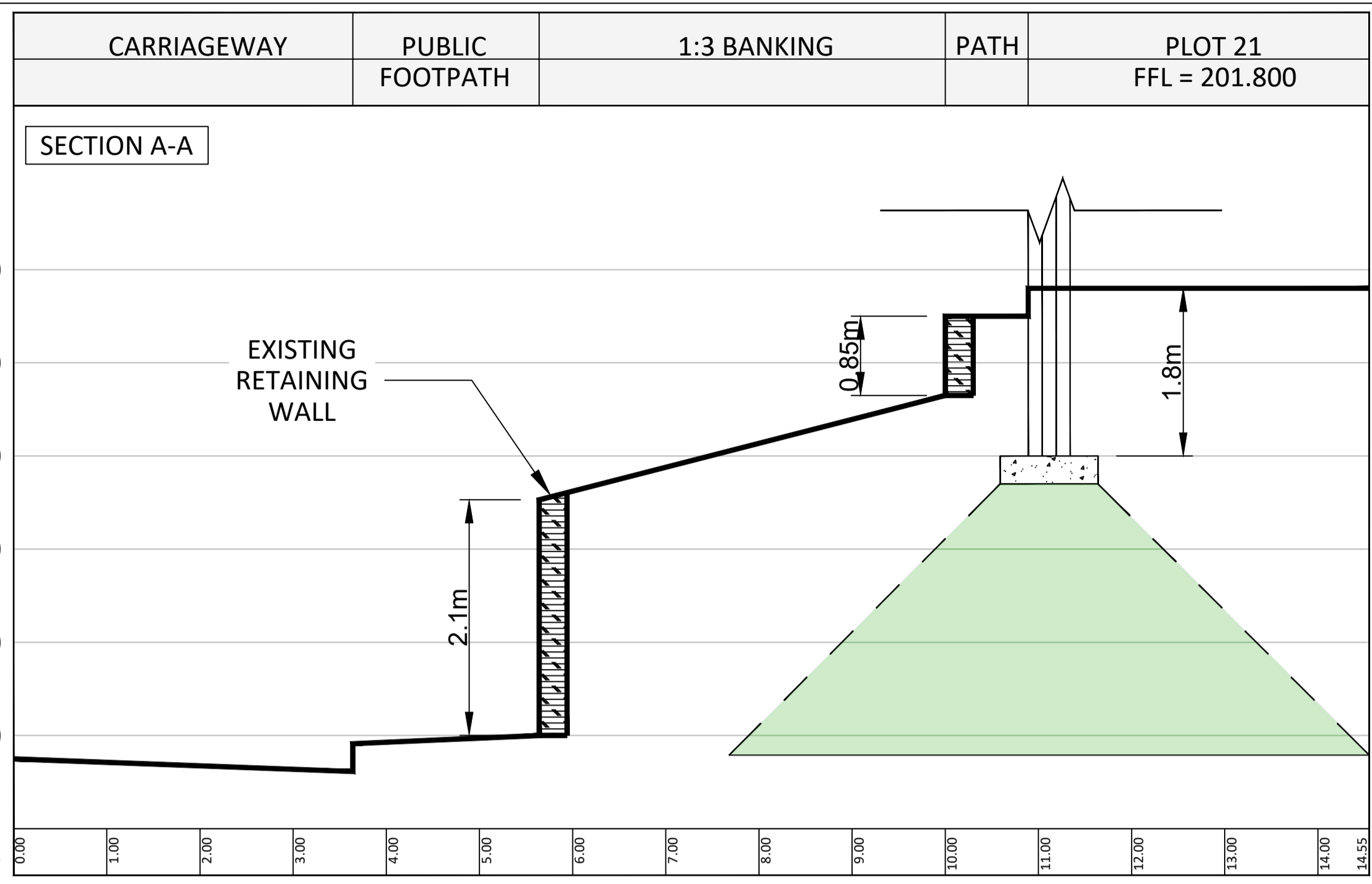
### **3. Method – Reinstatement of Dry Stone Retaining Wall**

- 3.1. The trench will hold the foundation stones, which will be the largest stones, so they support the wall. The foundation stones will be laid flat into the trench, packing any gaps with smaller stones, these are laid upon a new Grade C30 concrete footing.
- 3.2. Stones will be chosen and placed carefully building up layers of stones laid flat and positioned lengthways, with each later getting slightly narrower.
- 3.3. To keep the wall, stable any gaps will be filled between the larger stones in each layer with small stones (filling stones).
- 3.4. All the stones and layers shall be grouted between the joints with a lean mix concrete to ensure bonding of the stones together.
- 3.5. The stones for the final layer are called top, cap or coping stones and should be large flat stones with a rounded top.
- 3.6. The wall will then be backfilled with a no fines porous concrete mixture set down 150mm below ground level for topsoil reinstatement, weep holes should be formed through the bottom of the wall to allow water that has drained down to flow out onto the highway.
- 3.7. Kirklees council have a standard approved detail (See Appendix D) for this type of wall up to 1.35m, however as our wall is extending up to 1.6m we will have to adapt this detail and provide reinforcement in the concrete backfill behind the stone facing.
- 3.8. Should the wall exceed the standard detail provided by Kirklees Council then it is proposed that either a new masonry wall or reinforced concrete wall would be constructed behind the dry stone wall and the original wall is put back in place as a façade to keep the original look, behind this wall it would be backfilled with free draining aggregate and weep holes formed through both structures to allow the build-up of water to flow out onto the highway, a full detailed design of the wall will be provided post planning and agreed with highway structures.
- 3.9. Any defects in the remaining wall shall be repaired during the reinstatement of the retaining wall.

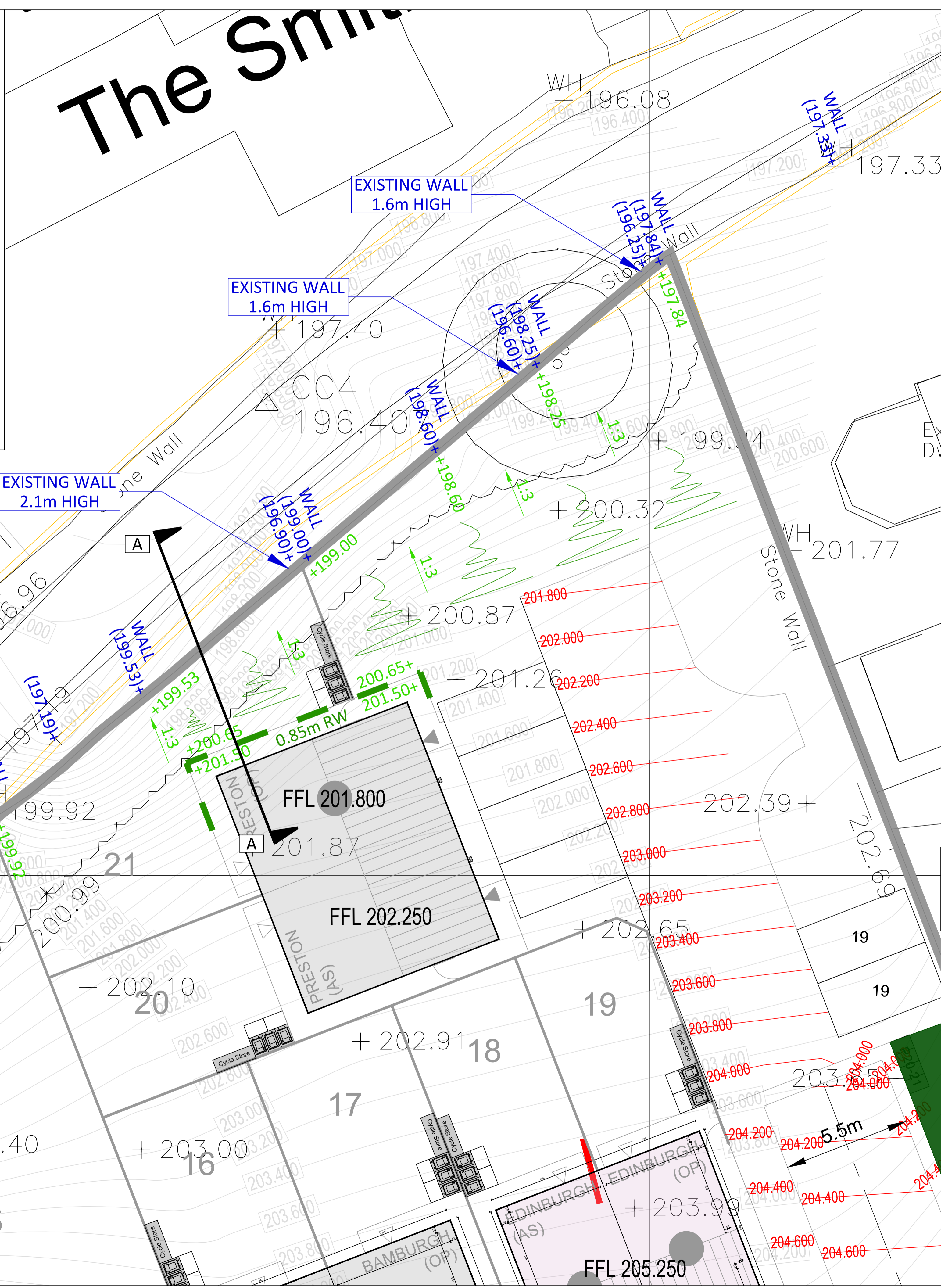
#### **4. Health and Safety**

- 4.1. A separate RAMS document will be provided by the appointed contractor prior to any works starting on site, this shall include specific personnel.
- 4.2. Buried services are a specific risk to personnel on site. Service plans will be provided by the client. No siteworks will commence until services are located.
- 4.3. All operatives will have steel toe cap safety boots, hard hat, gloves (both leather rigger and latex) and ear defenders. Eye protection will be worn where appropriate. Basic hand washing facilities will be provided on site.
- 4.4. It is the responsibility of the sub-contractor to ensure that adequate provision of first-aiders are present on site.

**APPENDIX A**  
**WALL GA LAYOUT AND PLOT 21**



# Bank Bottom Cottage



- NOTES
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REV	DESCRIPTION	BY	DATE
A	INITIAL ISSUE	MJM	12.03.24
	AMENDMENTS		

**FOR COMMENT**

STATUS	CHK'D
PRELIMINARY	MJM
FOR COMMENT	MJM
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FOR CONSTRUCTION	
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ORION HOMES

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BANKFIELD DRIVE  
HOLMBRIDGE  
HD9 2QP

TITLE  
HIGHWAY RETAINING WALL  
GENERAL ARRANGEMENT PLAN

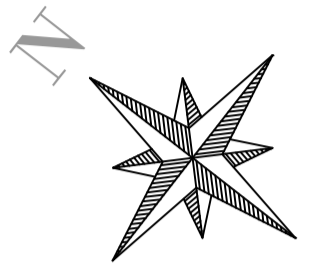
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JOB No	DRG No	REV
21043	111	A

**APPENDIX B**  
**SECTION THROUGH DRAINAGE CONNECTION**

Datum: 194.000M AOD						
EXISTING CHAINAGE (m)	3.926	12.651	17.914 17.984	23.373	29.539	31.510
EXISTING LEVELS (m)	196.724	198.859	200.273 200.268	201.486	201.925	202.152
Final Surface (m)			201.717 201.846 201.981	202.176 202.370	202.565 202.788 202.996	202.753

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**EXTENT OF RETAINING WALL TO BE REMOVED**

**EXTENT OF RETAINING WALL TO BE REMOVED**

**FLOW CONTROL MANHOLE**  
HEAD=4.0m  
FLOW=3.5l/s

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**PRELIMINARY**

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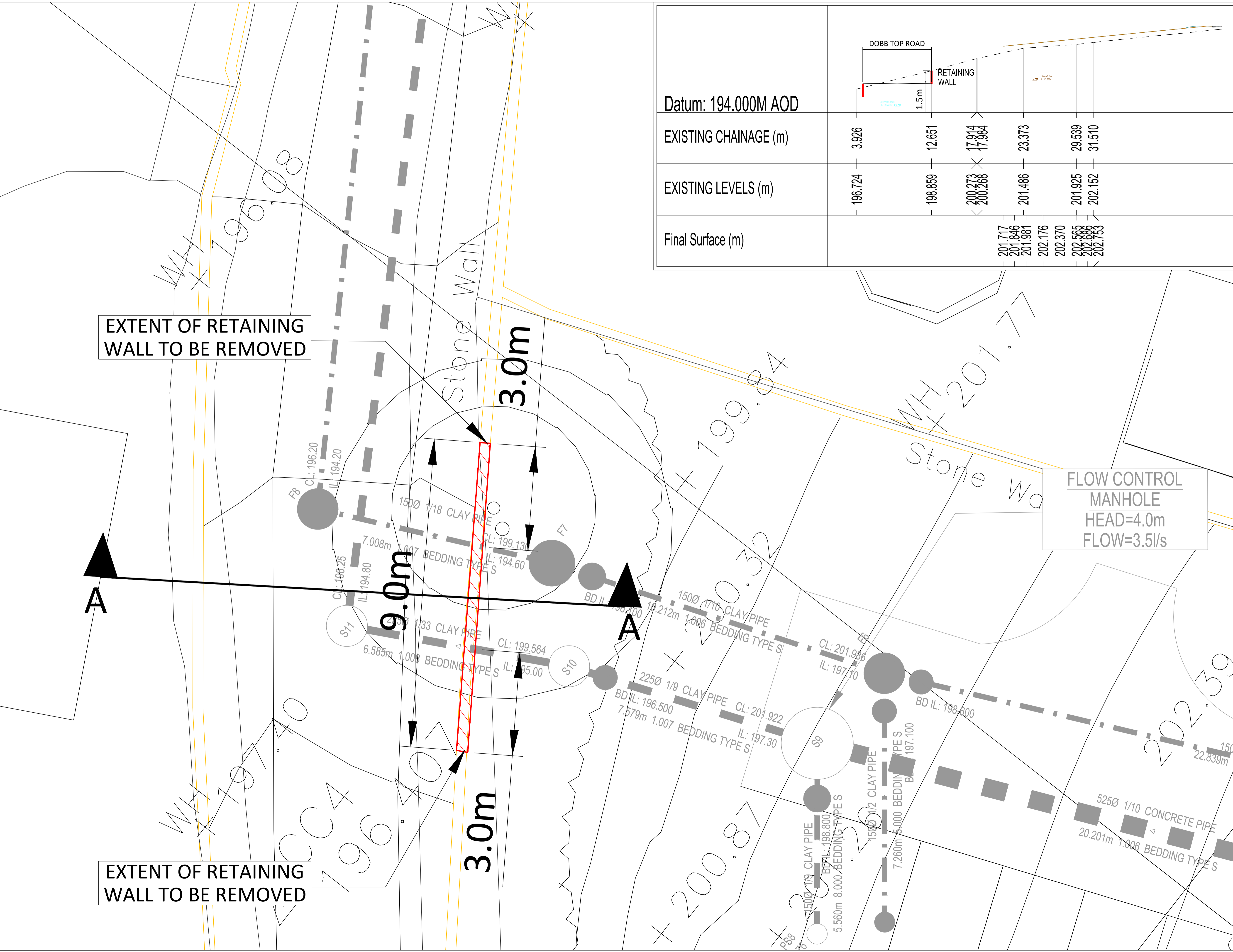
CLIENT  
**ORION HOMES**

CONTRACT  
**BANKFIELD DRIVE  
HOLMBRIDGE  
HD9 2QP**

TITLE  
**EXISTING HIGHWAY RETAINING  
WALL GENERAL ARRANGEMENT**

DRAWN	MJM	CHK'D	MJM
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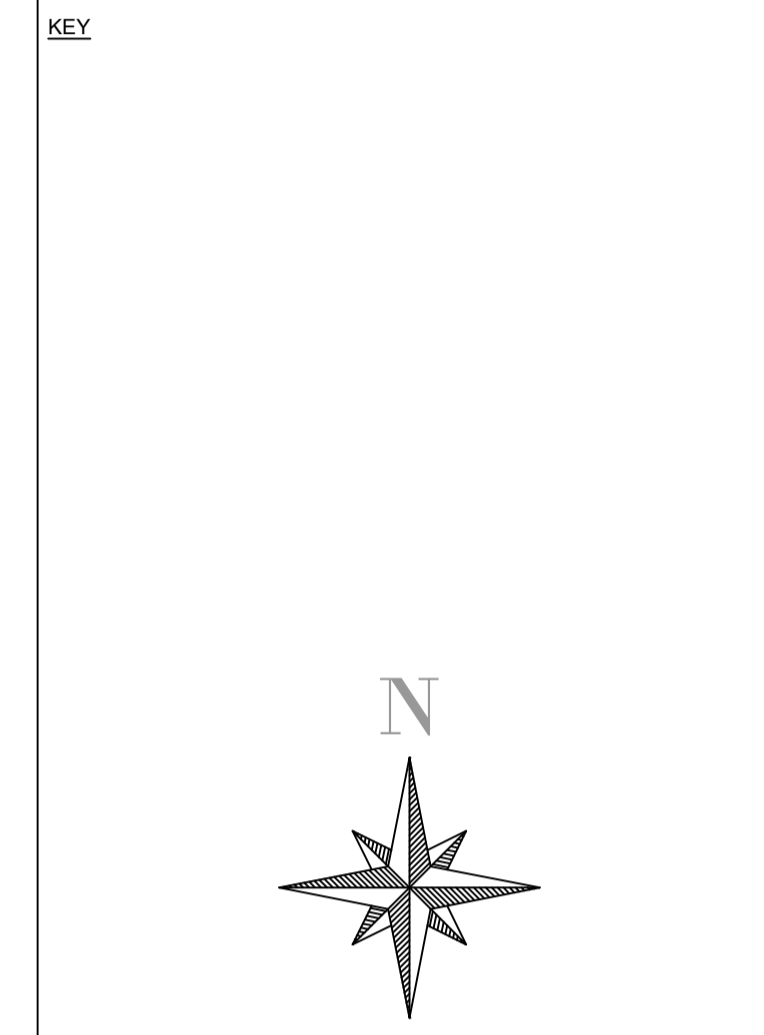
JOB No	DRG No	REV
21043	116	F



**APPENDIX C**  
**TEMPORARY ROAD CLOSURE AND DIVERSION**



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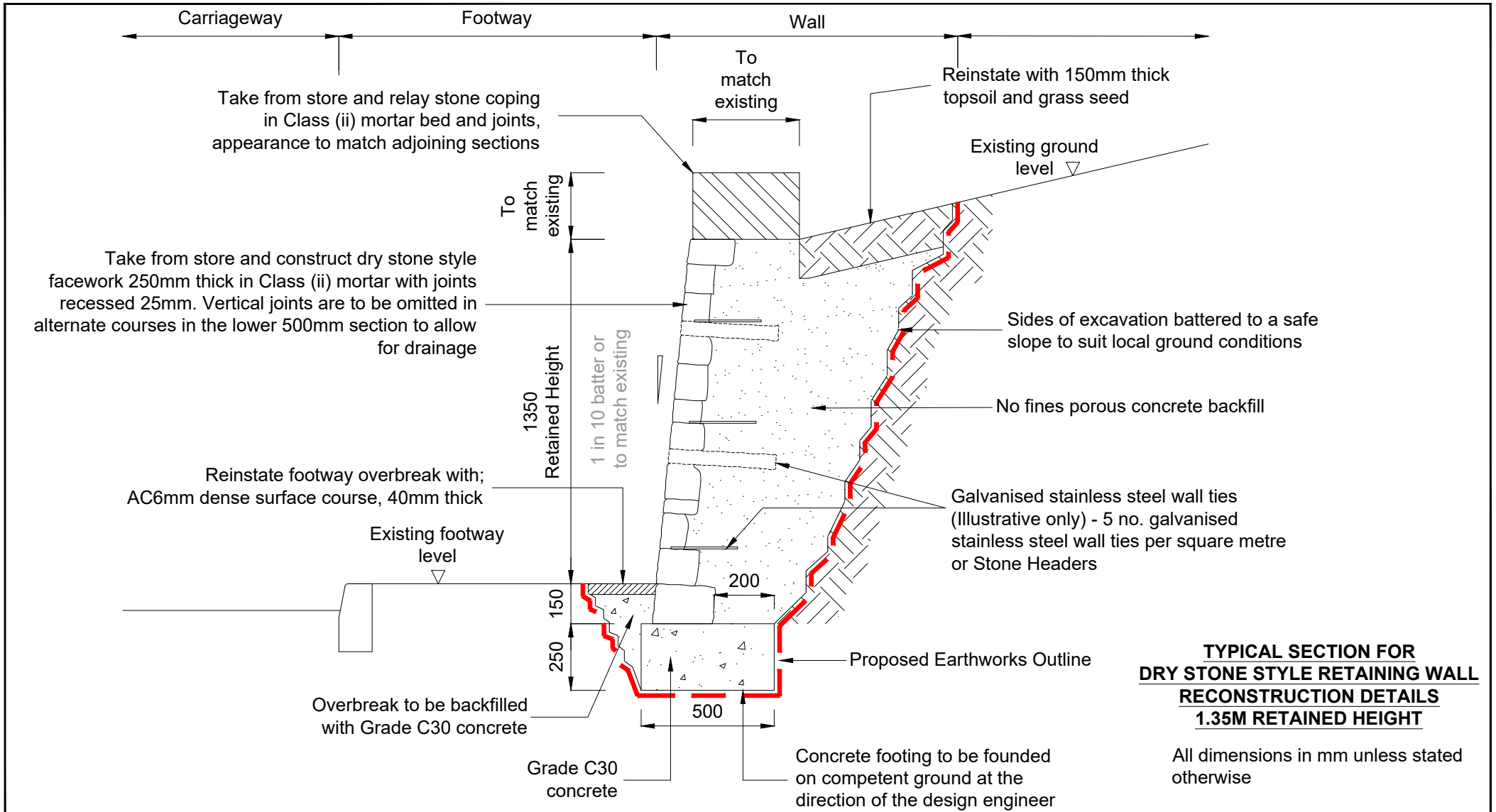
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TITLE  
**TEMPORARY ROAD  
DIVERSION**

DRAWN	MJM	CHK'D	MJM
SCALE	NTS	DATE	13.03.24

JOB No	DRG No	REV
22046	119	A

**APPENDIX D**  
**KIRKLEES DRY STONE WALL RETAINING DETAIL**



 <p><b>Kirklees</b> COUNCIL</p>	Project	<h1>STANDARD DETAILS</h1>		Scale	
				NOT TO SCALE	
<p><b>Commercial Regulatory and Operational Service</b></p> <p>Highway Design Flint Street, Fartown Huddersfield, HD1 6LG</p>	Title	Drawn	Checked		
	<h2>DRY STONE STYLE RETAINING WALL RECONSTRUCTION (1.35m RETAINED HEIGHT)</h2>	AKKV/RS	FK	Section	Date
				HD	March 22
		Drawing No. HD/SD/24/03B			



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