

APPENDIX E

British Geological Survey

1:50,000-scale Mapping

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WMGR	Infilled Ground	Artificial Deposit	Cenozoic - Cenozoic
	WGR	Worked Ground (Undivided)	Void	Holocene - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Holocene - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Quaternary - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay and Silt	Flandrian - Flandrian
	HEAD	Head	Diamicton	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	HMR	Haigh Moor Rock	Sandstone	Duckmantian - Duckmantian
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Bolsovia - Duckmantian
	PMCM	Pennine Middle Coal Measures Formation	Sandstone	Bolsovia - Duckmantian
	BNR	Barnsley Rock	Sandstone	Duckmantian - Duckmantian
	KNR	Kent's Rock	Sandstone	Duckmantian - Duckmantian
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Langsettian - Langsettian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Langsettian - Langsettian
	PKR	Parkgate Rock	Sandstone	Langsettian - Langsettian
	ER	Emley Rock	Sandstone	Langsettian - Langsettian
		Rock Segments		
		Faults		

Geology 1:50,000 Maps

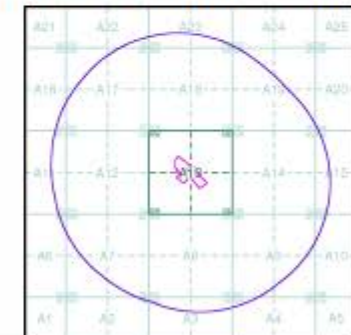
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	087
Map Name:	Barnsley
Map Date:	2008
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

Order Number:	116447586_1_1
Customer Reference:	11548/12
National Grid Reference:	431830, 406150
Slice:	A
Site Area (Ha):	2.82
Search Buffer (m):	1000

Site Details:

Site at 431830, 406120

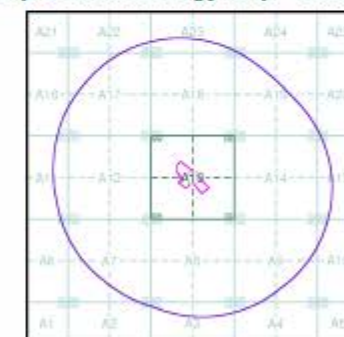
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A

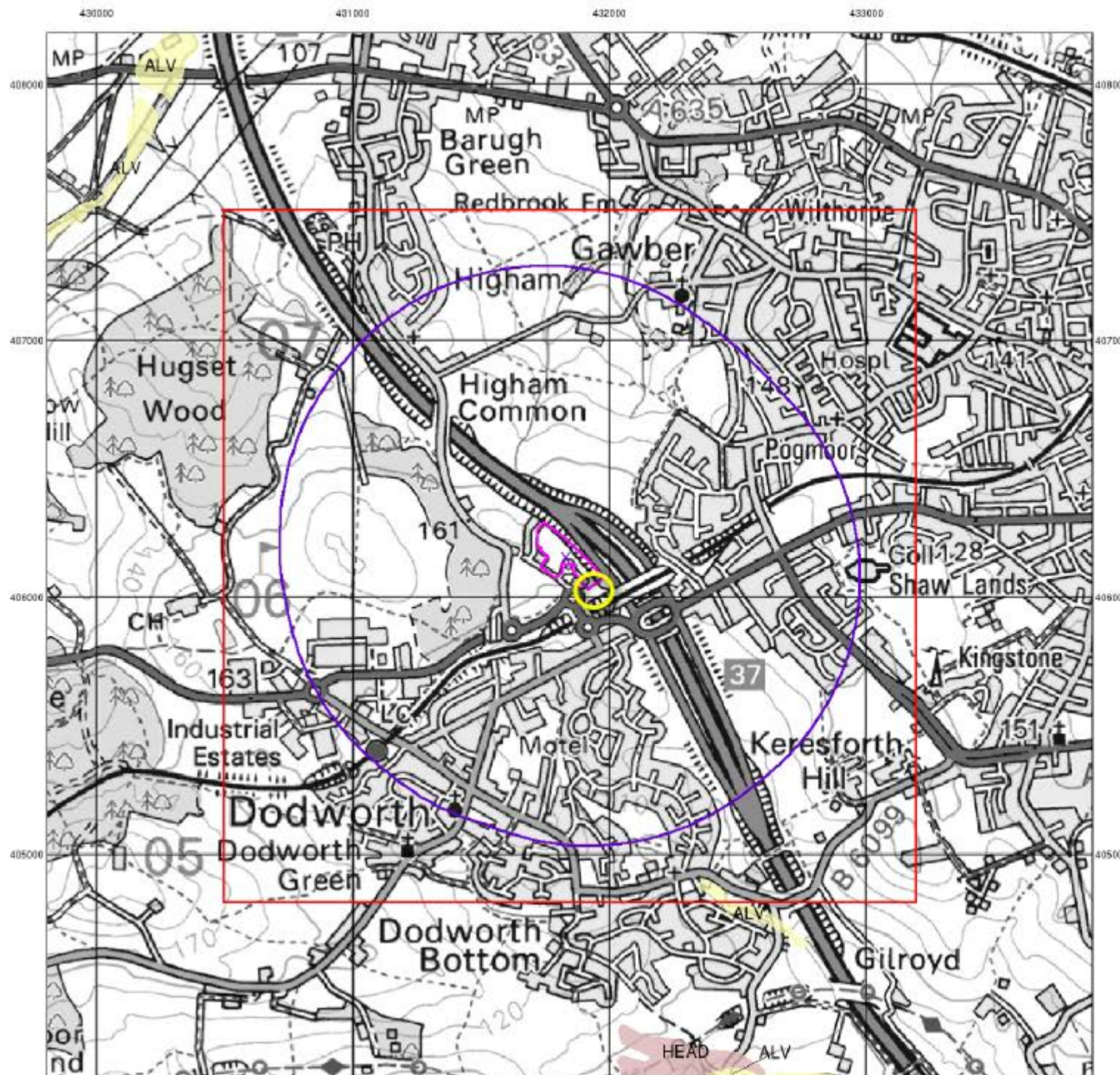


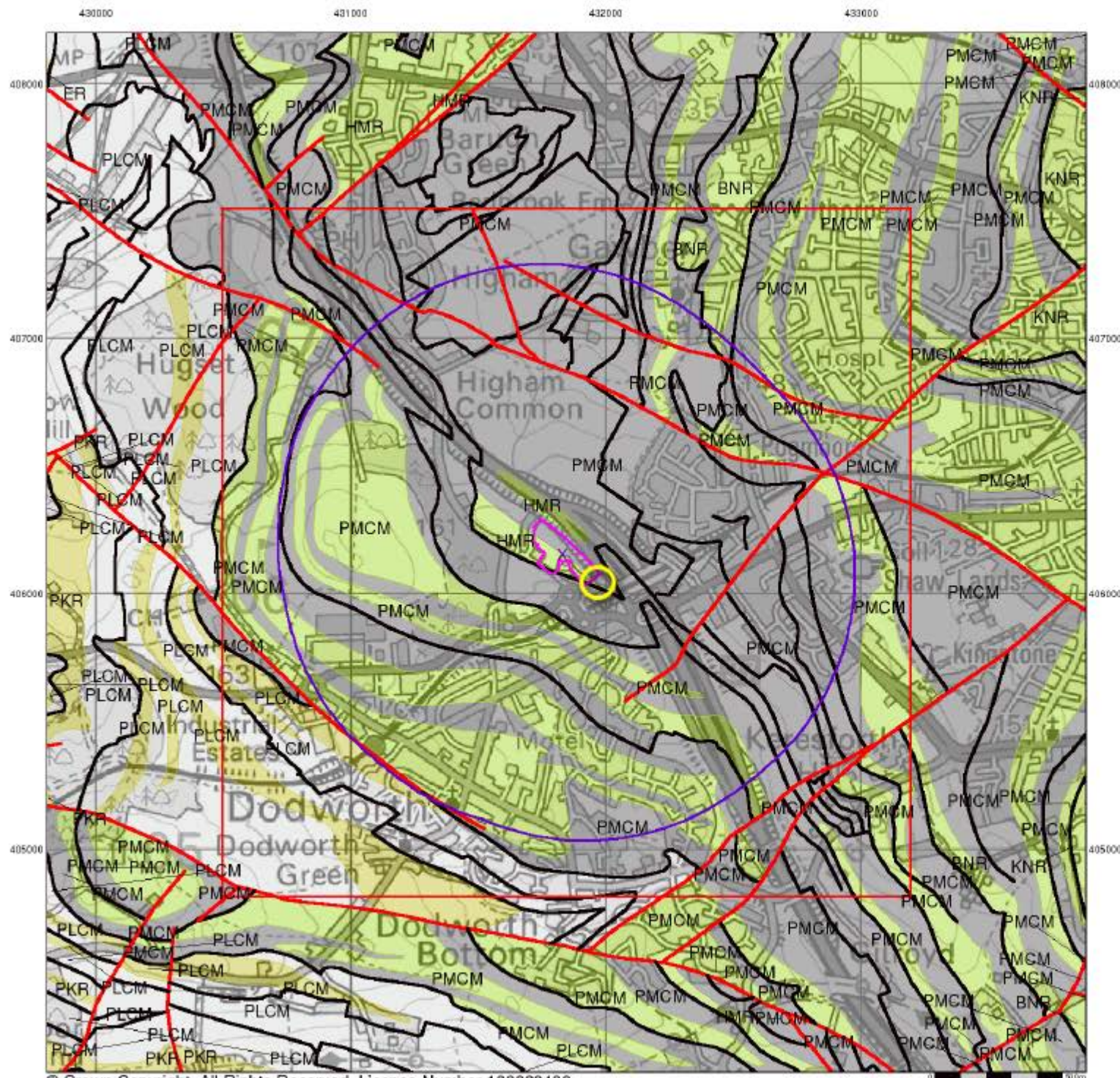
Order Details:

Order Number: 116447586_1_1
 Customer Reference: 11548/12
 National Grid Reference: 431830, 406150
 Slice: A
 Site Area (Ha): 2.82
 Search Buffer (m): 1000

Site Details:

Site at 431830, 406120





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Bedrock and Faults

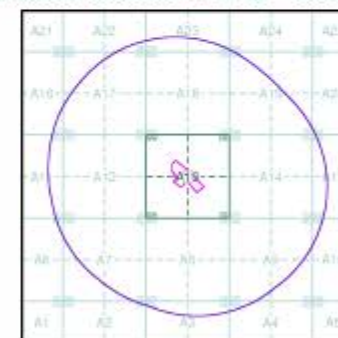
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



Order Details:

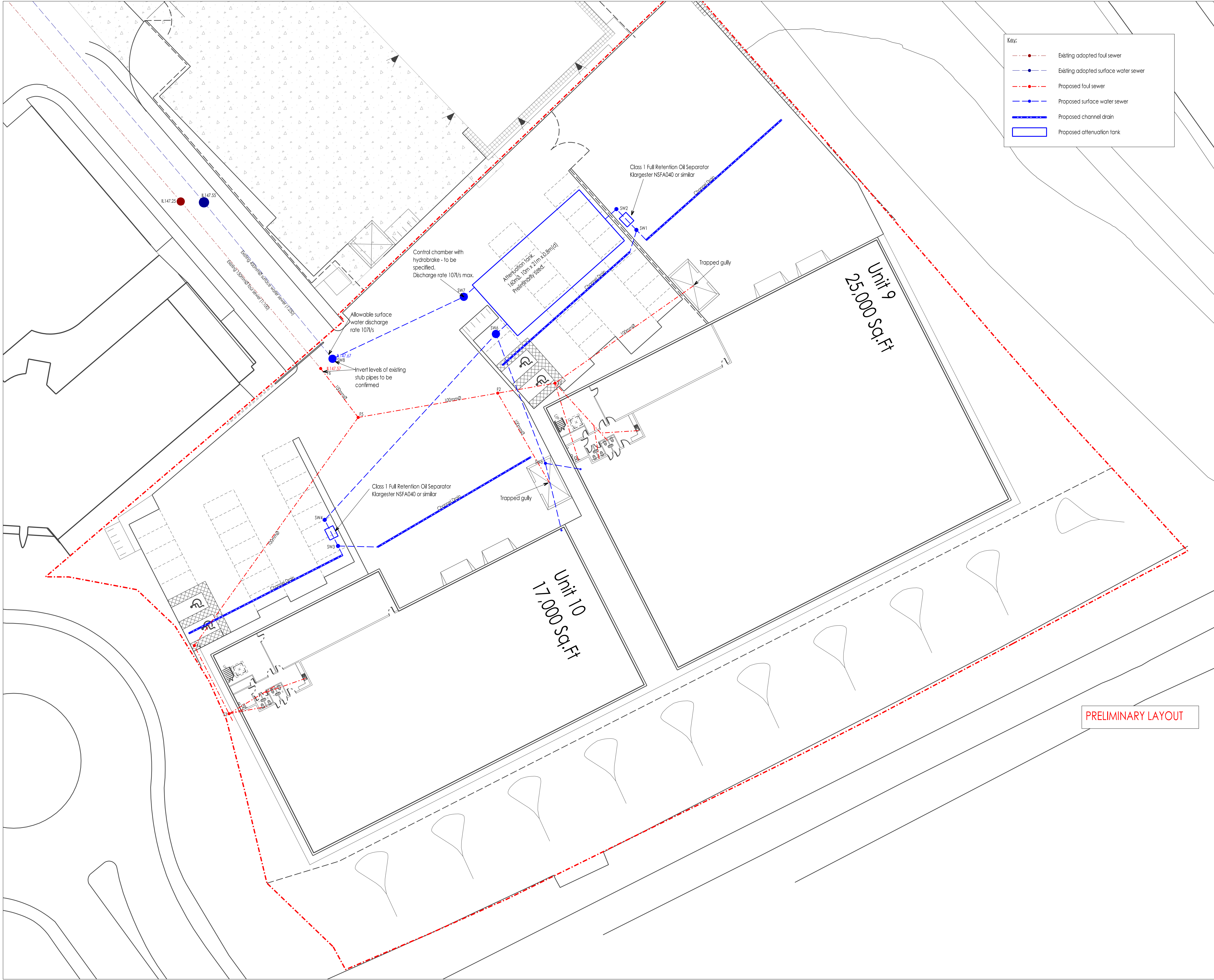
Order Number: 116447586_1_1
 Customer Reference: 11548/12
 National Grid Reference: 431830, 406150
 Slice: A
 Site Area (Ha): 2.82
 Search Buffer (m): 1000

Site Details:

Site at 431830, 406120

APPENDIX F

Preliminary Drainage Layout



PRELIMINARY LAYOUT

Williams Saunders is the trading name of Wm Saunders Partnership LLP. Wm Saunders Partnership Limited Liability Partnership is registered in England and Wales with the Registration number OC 38823. The Registered Office is Sheppard Lockton House, Cafferata Way, Newark-on-Trent, Notts, NG24 2TN.

This drawing & any design thereon is the copyright of Wm Saunders Partnership LLP and must not be reproduced without their written consent.

Contractors must verify all dimensions, levels and coordinates of the site before commencing any work or making any shop drawings: no dimensions to be taken from drawing.

- Notes:
1. Drawing to be read in conjunction with all other relevant Engineers and Architects details.
 2. All works to be carried out in accordance with the current British Standards, Codes of Practice, Building Regulations and Sewers for Adoption 6th Edition.
 3. The exact position, level, size and use of existing sewers to be confirmed on site and any discrepancies are to be reported to the Engineer prior to the commencement of the works.
 4. All uncovered and shallow pipework to be protected from construction traffic as part of the Contractors temporary works requirement.
 5. Any connections to road gullies to be 150mm diameter.
 6. All pipework entering and exiting manholes to have level soffits.
 7. Pre-formed channels to be used at all manholes.
 8. High strength concrete benching to be steel trowelled to a dense smooth face neatly shaped and finished to all branch connections and laid in accordance with the specification.
 9. Pipe bends to be provided in direction of flow.
 10. All manhole covers and frames to be heavy duty ductile iron grade D400 double triangular to BS EN124 unless noted otherwise.
 11. First flexible joint to pipes adjacent manhole shall be 600mm maximum from nearside face of manhole connecting to a rocker pipe. Rocker pipe length to be 600mm.
 12. All soft spots encountered in the trench formation to be removed and replaced with graded granular material.
 13. Discharge rates for surface water from the site to the public sewer are to be at a maximum allowable rate of 107l/s - based on an allowable impermeable area of 7725sqm - as stated in the Yorkshire Water pre-development enquiry.

P1	Initial preliminary issue for planning	WD	CM	06/06/19	
Rev	Description	Drm	Vfd	Date	
As outlined in section 2.3 of the CIB Industry Guidance to Designers, insignificant risks can usually be ignored, as can risks arising from routine construction activities, unless the design compounds or significantly alters these risks. In accordance with CDM Regulations 8, 9 and 11, any significant risks relating to the design features shown on this drawing have been identified and are annotated thus: 					
☒ No significant risks have been identified.					
☐ Significant risks have been identified - refer to notes on drawing for information on residual risks and any control measures to be employed.					
Refer to the current Designer's Risk Assessment sheets for further details.					
Designer's Signature		WD		Date 06/19	

Drawing Status
PLANNING

williamsaunders
architecture: engineering: building consultancy
Sheppard Lockton House
Cafferata Way
Newark-on-Trent
Nottinghamshire, NG24 2TN
Tel: 01636 704361
Fax: 01636 702809
W: wms-saunders.co.uk

Also at Leeds, Lincoln, Wirsoworth

Project Phase 2 Capital Park Dodworth, Barnsley									
Client Carnell Management Services Ltd									
Title Schematic Drainage Layout									
WmS Project Ref. 11933		Drawn WD	Date June 2019		Scale 1:250		@ A1		
Drawing/Document Reference									
Project	Originator	Zone	Level	Type	Role	Number	Status	Rev.	
11933	- WMS	- ZZ	- XX	- DR	- C	39201	- S8	- P1	

williamsaunders

architecture : engineering : building consultancy

Sheppard Lockton House Tel: 01636 704361
Cafferata Way Fax: 01636 702809
Newark-on-Trent W: wm-saunders.co.uk
Nottinghamshire NG24 2TN

Also at: Leeds : Warksworth : Lincoln