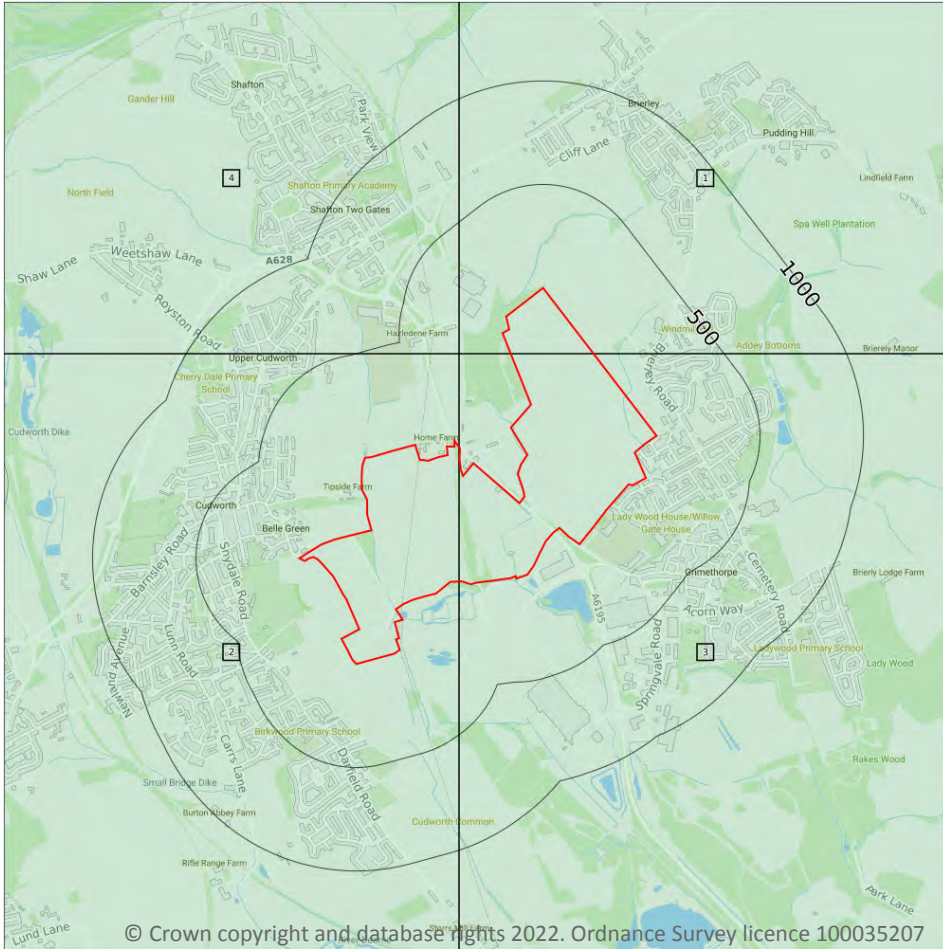


14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

4

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 108**

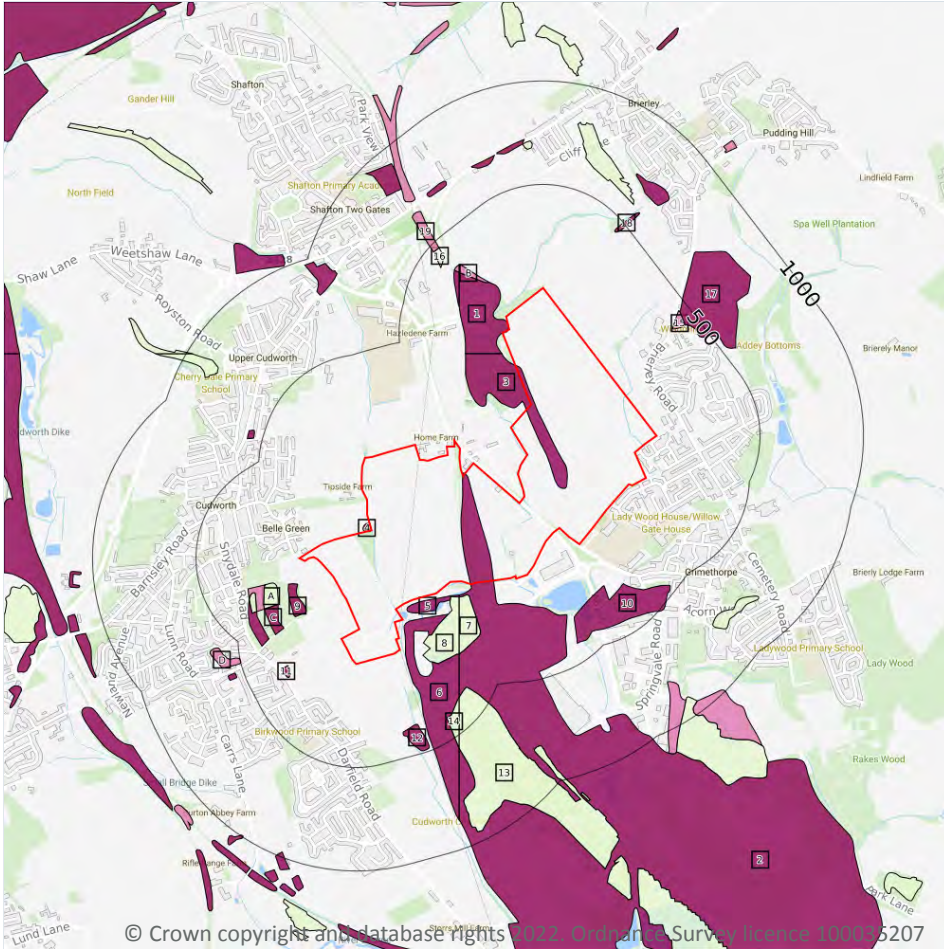
ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SE41SW
2	On site	Full	Full	Full	No coverage	SE30NE
3	On site	Full	Full	Full	No coverage	SE40NW
4	210m N	Full	Full	Full	No coverage	SE31SE



This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



14.2 Artificial and made ground (10k)

Records within 500m **28**

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 110**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	19m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	23m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	54m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
8	57m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
9	117m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	171m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
B	178m N	WGR-VOID	Worked Ground (Undivided)	Void
A	208m SW	WGR-VOID	Worked Ground (Undivided)	Void
10	233m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	234m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
C	245m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	274m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
11	289m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	312m N	WGR-VOID	Worked Ground (Undivided)	Void
C	314m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
12	357m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
13	365m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
14	368m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
15	377m NE	WGR-VOID	Worked Ground (Undivided)	Void
16	395m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
17	437m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
18	440m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
19	464m N	WGR-VOID	Worked Ground (Undivided)	Void
D	499m SW	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

3

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 112**

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZ	Alluvium - Clay And Silt	Clay And Silt
2	On site	ALV-XCZ	Alluvium - Clay And Silt	Clay And Silt
3	1m W	ALV-XCZ	Alluvium - Clay And Silt	Clay And Silt

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

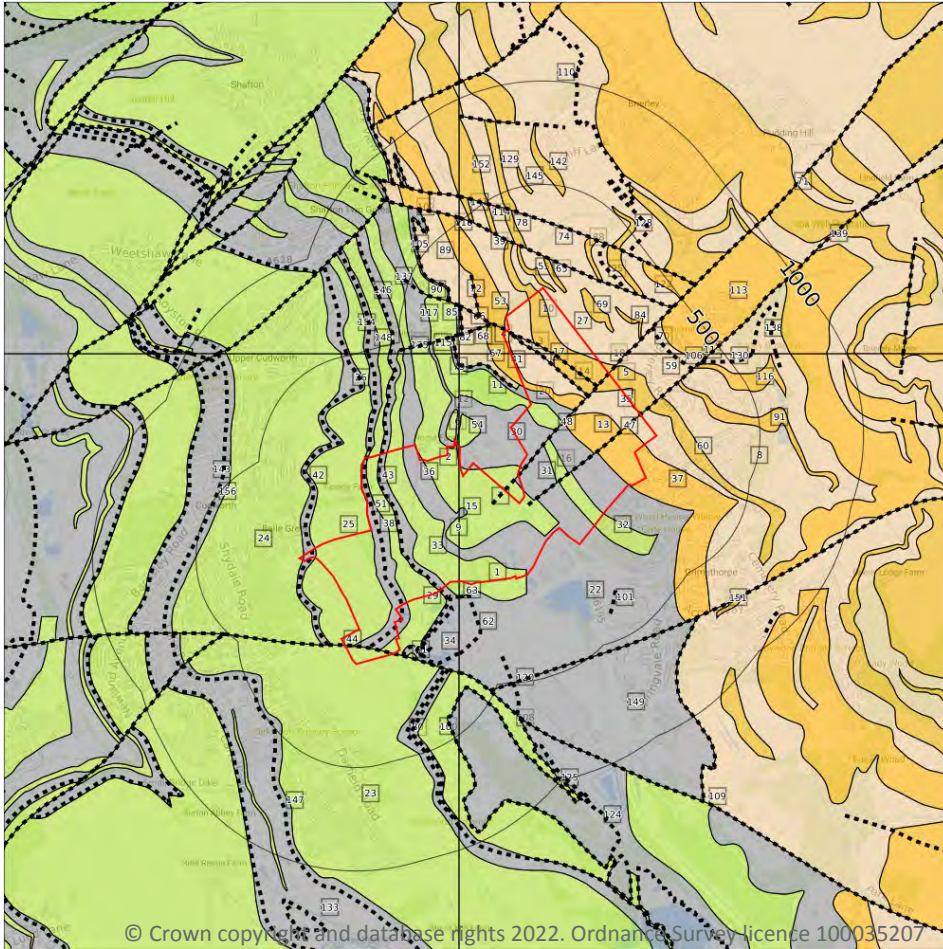
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

112

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 114](#)

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
2	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
3	On site	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
4	On site	AR-SDST	Ackworth Rock - Sandstone	Bolsovian Sub-age
5	On site	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
6	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
7	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
8	On site	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
9	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
10	On site	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
11	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
12	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
13	On site	AR-SDST	Ackworth Rock - Sandstone	Bolsovian Sub-age
14	On site	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
15	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
16	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
17	On site	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
18	On site	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
19	On site	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
20	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
21	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
22	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
23	On site	MXR-SDST	Mexborough Rock - Sandstone	Bolsovia Sub-age
24	On site	MXR-SDST	Mexborough Rock - Sandstone	Bolsovia Sub-age
25	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
26	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
27	On site	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
28	On site	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
29	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
30	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
31	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
32	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
33	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
34	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
35	On site	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
36	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
37	On site	AR-SDST	Ackworth Rock - Sandstone	Bolsovia Sub-age
38	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
39	On site	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
40	On site	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovia Sub-age
41	On site	AR-SDST	Ackworth Rock - Sandstone	Bolsovia Sub-age



ID	Location	LEX Code	Description	Rock age
52	1m NW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
53	1m N	AR-SDST	Ackworth Rock - Sandstone	Bolsoviaian Sub-age
54	2m NW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
55	11m N	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
57	17m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
59	45m NE	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
60	47m NE	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
61	49m SW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
65	61m N	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
66	72m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
68	77m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
69	98m NE	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
70	123m NE	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
72	130m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
74	141m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
76	198m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
78	205m N	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
79	207m N	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
80	209m S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
81	210m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
82	210m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
84	215m NE	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
85	220m N	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
86	232m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
88	234m NE	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
89	234m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
91	234m NE	NEWR-SDST	Newstead Rock - Sandstone	Bolsoviaian Sub-age
92	240m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
94	247m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
95	247m NE	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
98	254m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
99	259m N	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
100	268m S	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
102	286m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
105	295m N	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
108	307m S	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
110	308m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
112	320m NE	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age



ID	Location	LEX Code	Description	Rock age
113	320m NE	BYR-SDST	Brierley Rock - Sandstone	Bolsoviaian Sub-age
114	337m N	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
115	338m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
116	343m NE	NEWR-SDST	Newstead Rock - Sandstone	Bolsoviaian Sub-age
117	345m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
118	346m N	AR-SDST	Ackworth Rock - Sandstone	Bolsoviaian Sub-age
119	346m NE	BYR-SDST	Brierley Rock - Sandstone	Bolsoviaian Sub-age
121	359m NW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
122	362m NE	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
123	365m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
124	365m S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
126	368m S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
128	386m NE	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
129	387m N	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
131	426m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsoviaian Sub-age
133	430m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
134	434m NE	BYR-SDST	Brierley Rock - Sandstone	Bolsoviaian Sub-age
135	441m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
136	444m NW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
137	445m NW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
138	447m NE	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
140	448m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
141	451m N	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
142	453m N	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
143	456m W	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
145	458m N	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
146	458m NW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
148	471m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
149	473m S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
150	473m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
152	480m N	PUCM-SDST	Pennine Upper Coal Measures Formation - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
154	488m NW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
155	488m N	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

44

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 114**



ID	Location	Category	Description
42	On site	ROCK	Coal seam, inferred
43	On site	ROCK	Coal seam, inferred
44	On site	FAULT	Normal fault, inferred
45	On site	FAULT	Normal fault, inferred
46	On site	FAULT	Normal fault, inferred
47	On site	FAULT	Normal fault, inferred
48	On site	FAULT	Normal fault, inferred
49	On site	FAULT	Normal fault, inferred
50	On site	FAULT	Normal fault, inferred
51	On site	FOSSIL_HORIZON	Fossil horizon, marine band
56	15m SW	ROCK	Coal seam, observed
58	36m N	FOSSIL_HORIZON	Fossil horizon, marine band
62	54m S	ROCK	Coal seam, observed
63	54m S	ROCK	Coal seam, observed
64	57m S	ROCK	Coal seam, observed
67	72m N	FAULT	Normal fault, inferred
71	128m NE	FAULT	Normal fault, inferred
73	130m N	FAULT	Normal fault, inferred
75	141m N	FAULT	Normal fault, inferred
77	198m N	FOSSIL_HORIZON	Fossil horizon, marine band
83	210m N	FAULT	Normal fault, inferred
87	233m S	ROCK	Coal seam, inferred
90	234m N	FAULT	Normal fault, inferred
93	240m N	FOSSIL_HORIZON	Fossil horizon, marine band
96	247m N	FOSSIL_HORIZON	Fossil horizon, marine band
97	248m S	FOSSIL_HORIZON	Fossil horizon, marine band
101	283m SE	ROCK	Coal seam, inferred
103	286m N	FOSSIL_HORIZON	Fossil horizon, marine band

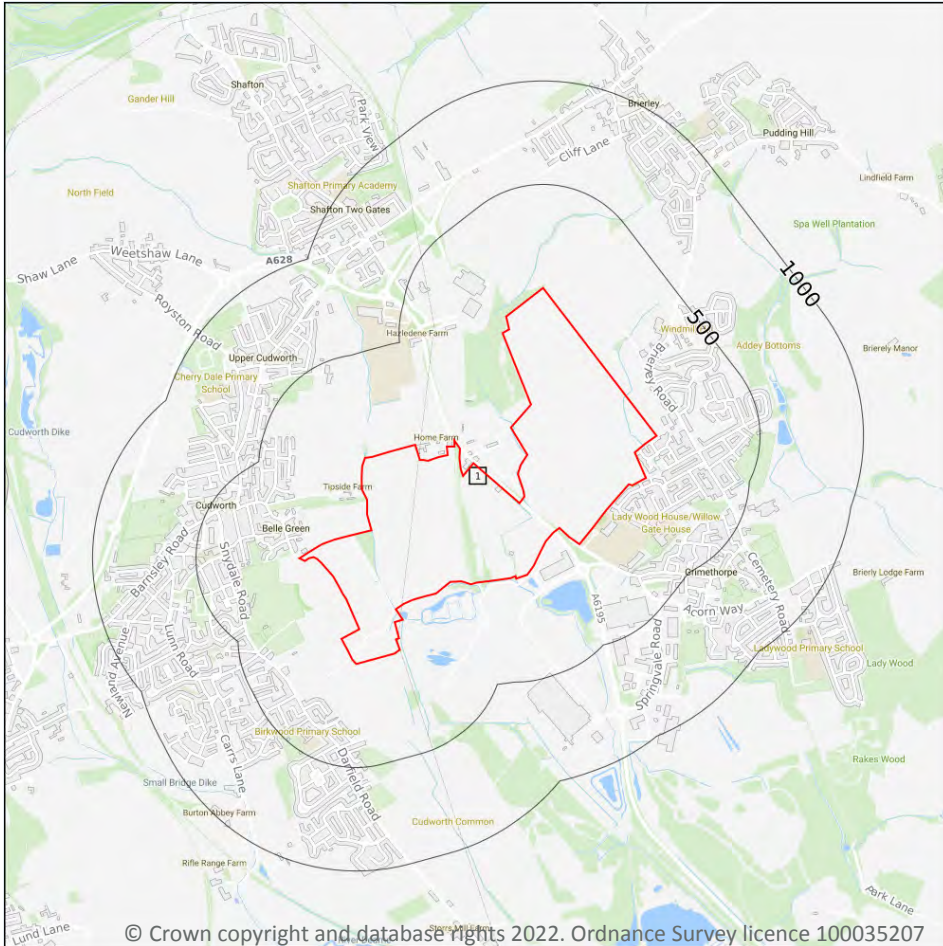


ID	Location	Category	Description
104	292m NE	ROCK	Coal seam, inferred
106	297m NE	ROCK	Coal seam, inferred
107	298m NE	ROCK	Coal seam, inferred
109	307m S	FAULT	Normal fault, inferred
111	308m N	FAULT	Normal fault, inferred
120	355m S	ROCK	Coal seam, observed
125	365m S	ROCK	Coal seam, observed
127	368m S	ROCK	Coal seam, observed
130	390m NE	ROCK	Coal seam, inferred
132	429m NE	ROCK	Coal seam, inferred
139	447m NE	FAULT	Normal fault, inferred
144	457m NW	ROCK	Coal seam, inferred
147	468m SW	ROCK	Coal seam, inferred
151	473m S	FAULT	Normal fault, inferred
153	484m NW	FOSSIL_HORIZON	Fossil horizon, marine band
156	488m W	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

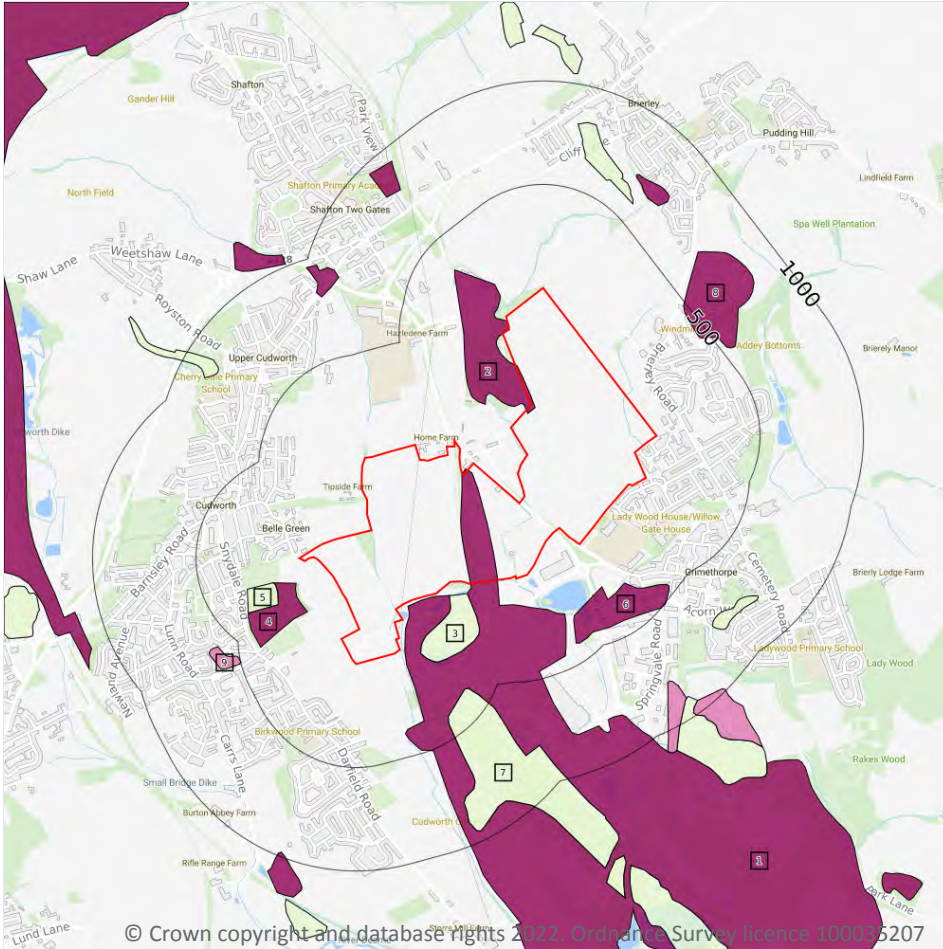
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 123**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW087_barnsley_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground



15.2 Artificial and made ground (50k)

Records within 500m 9

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 124**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	48m S	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
4	116m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

ID	Location	LEX Code	Description	Rock description
5	173m SW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
6	232m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
7	367m S	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
8	454m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
9	498m SW	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

6

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low
12m SW	Mixed	Very High	Low
48m S	Mixed	Very High	Low
48m S	Mixed	Very High	Low

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

▣ Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

2

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 126**

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZ	ALLUVIUM	CLAY AND SILT
2	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m **2**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Very Low
On site	Intergranular	Low	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m **0**

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

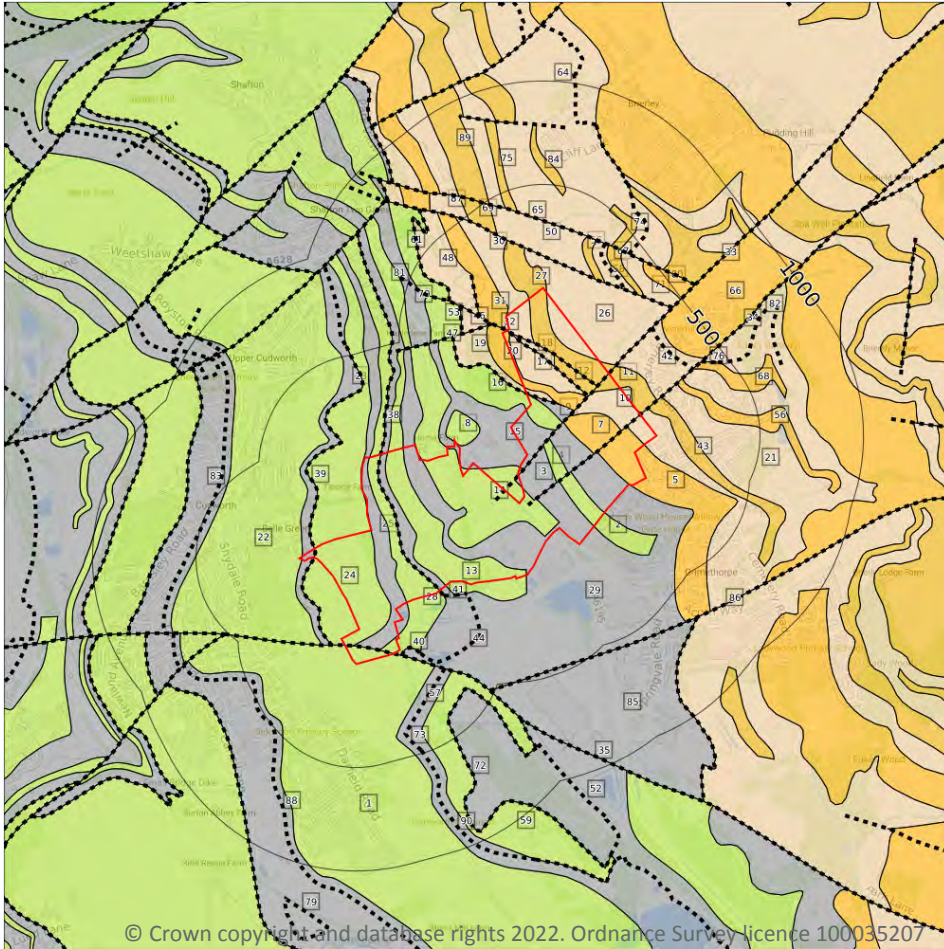
15.7 Landslip permeability (50k)

Records within 50m **0**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

61

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 128**

ID	Location	LEX Code	Description	Rock age
1	On site	MXR-SDST	MEXBOROUGH ROCK - SANDSTONE	WESTPHALIAN
2	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
3	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
4	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
5	On site	AR-SDST	ACKWORTH ROCK - SANDSTONE	WESTPHALIAN
6	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
7	On site	AR-SDST	ACKWORTH ROCK - SANDSTONE	WESTPHALIAN
8	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
9	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	On site	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	On site	PUCM-SDST	PENNINE UPPER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
12	On site	PUCM-SDST	PENNINE UPPER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
13	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
14	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
15	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
16	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
17	On site	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	On site	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	On site	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
20	On site	AR-SDST	ACKWORTH ROCK - SANDSTONE	WESTPHALIAN
21	On site	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
22	On site	MXR-SDST	MEXBOROUGH ROCK - SANDSTONE	WESTPHALIAN
23	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
24	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
25	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
26	On site	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
27	On site	PUCM-SDST	PENNINE UPPER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
28	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
29	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
30	On site	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
31	On site	AR-SDST	ACKWORTH ROCK - SANDSTONE	WESTPHALIAN
42	45m NE	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
43	47m NE	PUCM-SDST	PENNINE UPPER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
46	71m N	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
48	130m N	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
50	141m N	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
52	187m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
53	198m N	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
55	226m NE	PUCM-SDST	PENNINE UPPER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
56	232m NE	NEWR-SDST	NEWSTEAD ROCK - SANDSTONE	WESTPHALIAN
58	253m NE	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
59	269m S	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
61	287m N	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
64	308m N	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
66	323m NE	BYR-SDST	BRIERLEY ROCK - SANDSTONE	WESTPHALIAN
67	328m NE	PUCM-SDST	PENNINE UPPER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
68	336m NE	NEWR-SDST	NEWSTEAD ROCK - SANDSTONE	WESTPHALIAN
69	337m N	PUCM-SDST	PENNINE UPPER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
70	347m N	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
71	361m NE	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
74	386m NE	PUCM-SDST	PENNINE UPPER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
75	387m N	PUCM-SDST	PENNINE UPPER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
77	426m N	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
79	431m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
80	435m NE	BYR-SDST	BRIERLEY ROCK - SANDSTONE	WESTPHALIAN
81	445m NW	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
83	456m W	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
84	456m N	PUCM-SDST	PENNINE UPPER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
85	473m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
87	474m N	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
89	480m N	PUCM-SDST	PENNINE UPPER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.



15.9 Bedrock permeability (50k)

Records within 50m

27

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	High	Moderate



Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
6m NW	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

30

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 128**

ID	Location	Category	Description
32	On site	FAULT	Fault, inferred
33	On site	FAULT	Fault, inferred
34	On site	FAULT	Fault, inferred
35	On site	FAULT	Fault, inferred
36	On site	FAULT	Fault, inferred
37	On site	FOSSIL_HORIZON	Marine band
38	On site	ROCK	Coal seam, inferred
39	On site	ROCK	Coal seam, inferred
40	21m SW	ROCK	Coal seam, inferred
41	33m SW	ROCK	Coal seam, inferred
44	48m S	ROCK	Coal seam, inferred
45	48m S	ROCK	Coal seam, inferred
47	71m N	FAULT	Fault, inferred
49	130m N	FAULT	Fault, inferred, displacement unknown
51	141m N	FAULT	Fault, inferred
54	198m N	FOSSIL_HORIZON	Marine band
57	233m S	ROCK	Coal seam, inferred

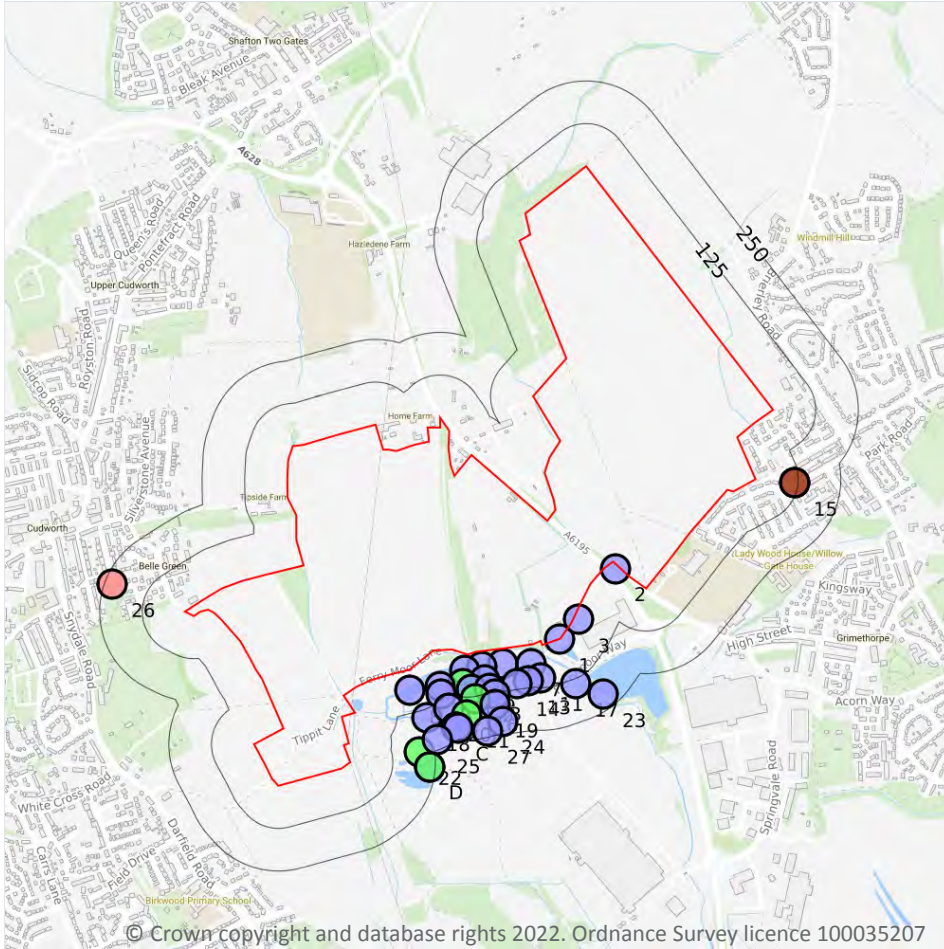


ID	Location	Category	Description
60	286m N	FOSSIL_HORIZON	Marine band
62	289m NE	ROCK	Coal seam, inferred
63	307m NE	ROCK	Coal seam, inferred
65	308m N	FAULT	Fault, inferred
72	367m S	ROCK	Coal seam, inferred
73	370m S	ROCK	Coal seam, inferred
76	390m NE	ROCK	Coal seam, inferred
78	429m NE	ROCK	Coal seam, inferred
82	453m NE	ROCK	Coal seam, inferred
86	473m S	FAULT	Fault, inferred
88	474m SW	ROCK	Coal seam, inferred
90	485m S	ROCK	Coal seam, inferred
91	493m W	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

36

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 135**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	1m S	440328 408930	GRIMETHORPE COLLIERY BHSA2	3.0	N	105802
2	11m SE	440491 409138	GRIMETHORPE COLLIERY BHSA1	3.0	N	105801
3	16m SE	440385 408989	GRIMETHORPE COLLIERY BHSA3	3.0	N	105803



ID	Location	Grid reference	Name	Length	Confidential	Web link
4	43m S	440160 408860	SOUTHSIDE PROJECT C	2.0	N	105685
5	45m S	440100 408850	SOUTHSIDE PROJECT B	2.0	N	105684
6	47m S	440050 408840	SOUTHSIDE PROJECT A	5.0	N	105683
7	55m S	440245 408859	GRIMETHORPE COLLIERY BH46	5.5	N	105736
8	60m SW	439890 408780	SOUTHSIDE PROJECT P	3.0	N	83718
9	84m S	440109 408812	GRIMETHORPE COLLIERY BH42	4.0	N	105732
10	87m S	440044 408800	GRIMETHORPE COLLIERY BH54	11.0	N	105743
A	93m S	439977 408793	GRIMETHORPE COLLIERY 53	5.0	N	83737
11	98m S	440272 408816	GRIMETHORPE COLLIERY BH44	5.5	N	105734
12	101m S	440069 408785	GRIMETHORPE COLLIERY BH86	5.0	N	105770
13	105m S	440235 408808	GRIMETHORPE COLLIERY BH43	5.0	N	105733
14	107m S	440203 408801	GRIMETHORPE COLLIERY BH45	4.0	N	105735
B	111m S	440123 408787	GRIMETHORPE COLLIERY BH41	3.0	N	105731
A	113m S	439980 408770	SOUTHSIDE PROJECT K	6.0	N	83717
15	115m E	441017 409390	GRIMETHORPE COLLIERY	-1.0	N	105659
B	131m S	440139 408769	GRIMETHORPE COLLIERY BH51	4.0	N	105741
16	131m S	440081 408757	GRIMETHORPE COLLIERY BH40	30.0	N	105730
17	141m S	440375 408799	GRIMETHORPE COLLIERY BH55	5.0	N	105744
18	151m S	439940 408700	SOUTHSIDE PROJECT Q	4.0	N	83719
19	160m S	440140 408740	SOUTHSIDE PROJECT D	3.0	N	105686
20	160m S	440002 408728	GRIMETHORPE COLLIERY BH39	8.0	N	105729
21	178m S	440056 408708	GRIMETHORPE COLLIERY BH35	11.0	N	105726
22	204m S	439916 408599	GRIMETHORPE COLLIERY 129	12.0	N	83738
23	205m SE	440456 408770	GRIMETHORPE COLLIERY BH56	5.0	N	105745
24	212m S	440160 408690	SOUTHSIDE PROJECT E	4.0	N	105687
C	216m S	440026 408672	GRIMETHORPE COLLIERY BH37	4.0	N	105728
C	216m S	440026 408672	GRIMETHORPE COLLIERY BH36	8.0	N	105727
C	218m S	440030 408670	SOUTHSIDE PROJECT L	8.0	N	105692

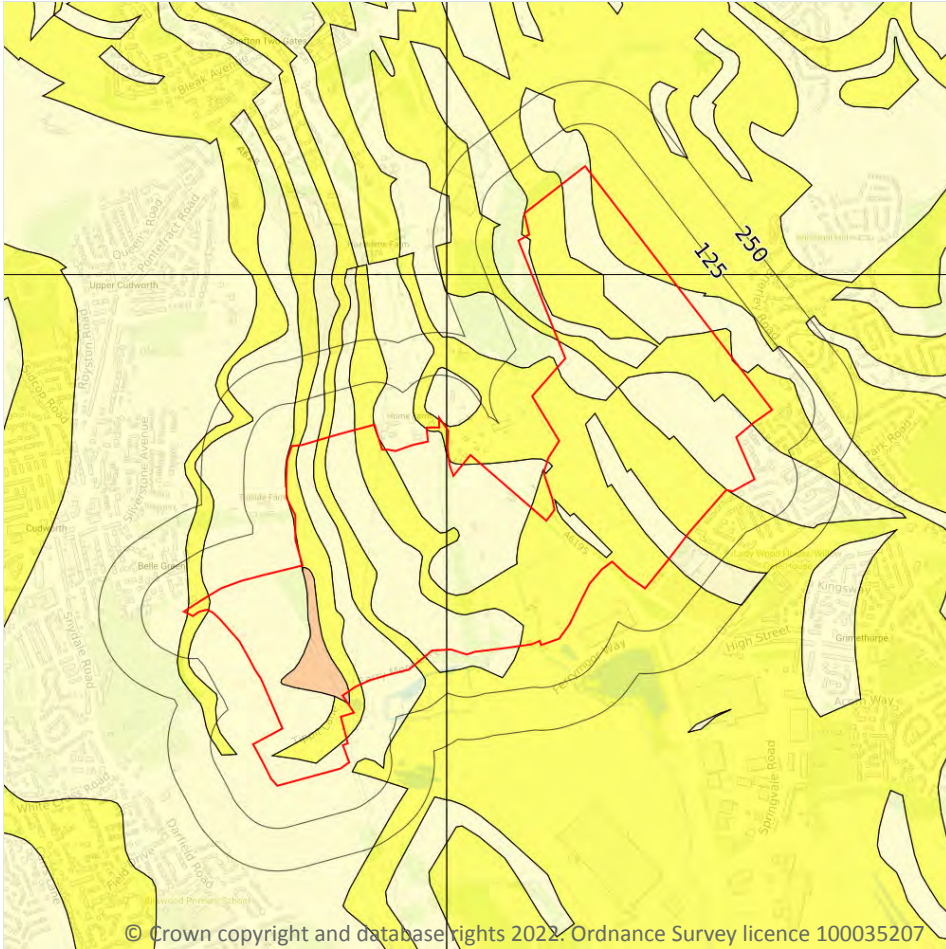


ID	Location	Grid reference	Name	Length	Confidential	Web link
25	222m S	439970 408635	GRIMETHORPE COLLIERY 34	9.0	N	83736
26	228m W	439016 409093	WHARNCLIFFE WOODMORE 4 & 5 COLLIERY 4	36.58	N	83495
27	232m S	440118 408661	GRIMETHORPE COLLIERY BH50	4.0	N	105740
D	234m S	439947 408557	GRIMETHORPE COLLIERY 131	8.0	N	83740
D	234m S	439947 408557	GRIMETHORPE COLLIERY 130	12.0	N	83739

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

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17.1 Shrink swell clays

Records within 50m

4

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 138**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
On site	Low	Ground conditions predominantly medium plasticity.

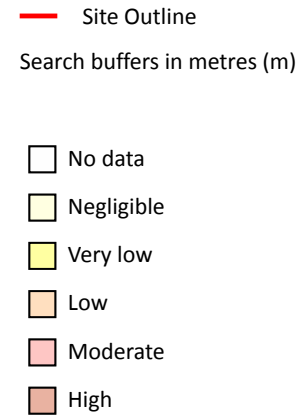
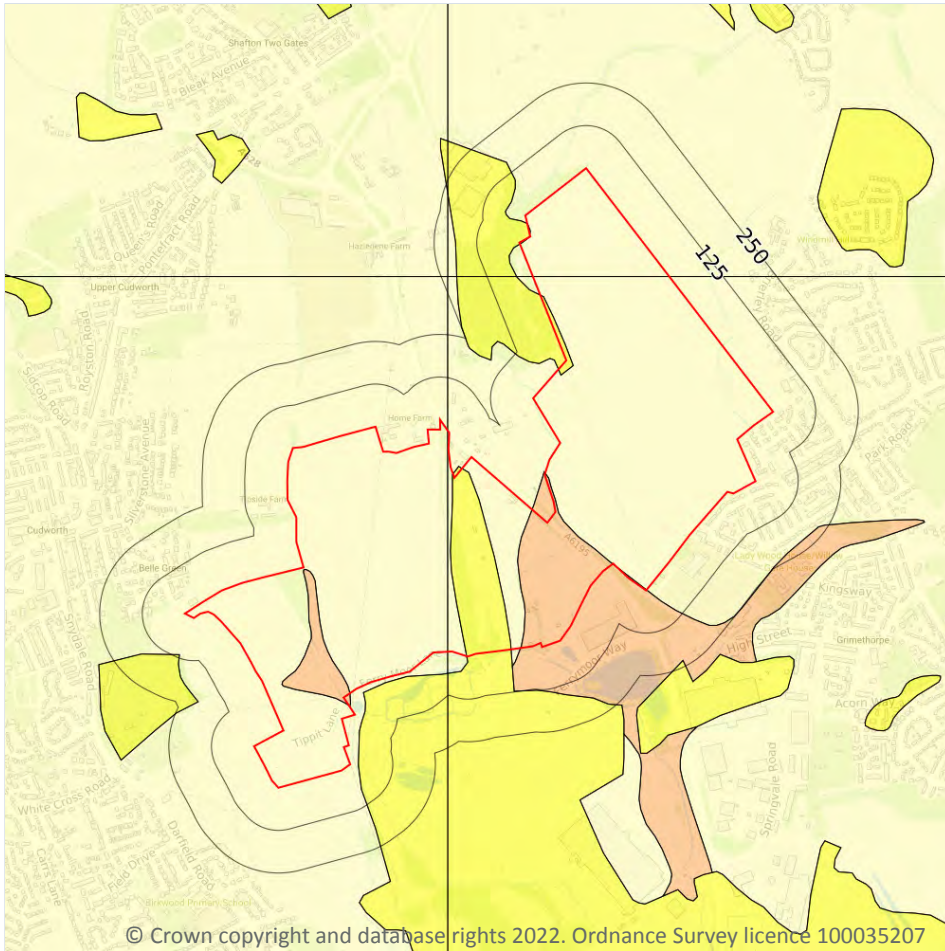


Location	Hazard rating	Details
6m NW	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

4

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 140**

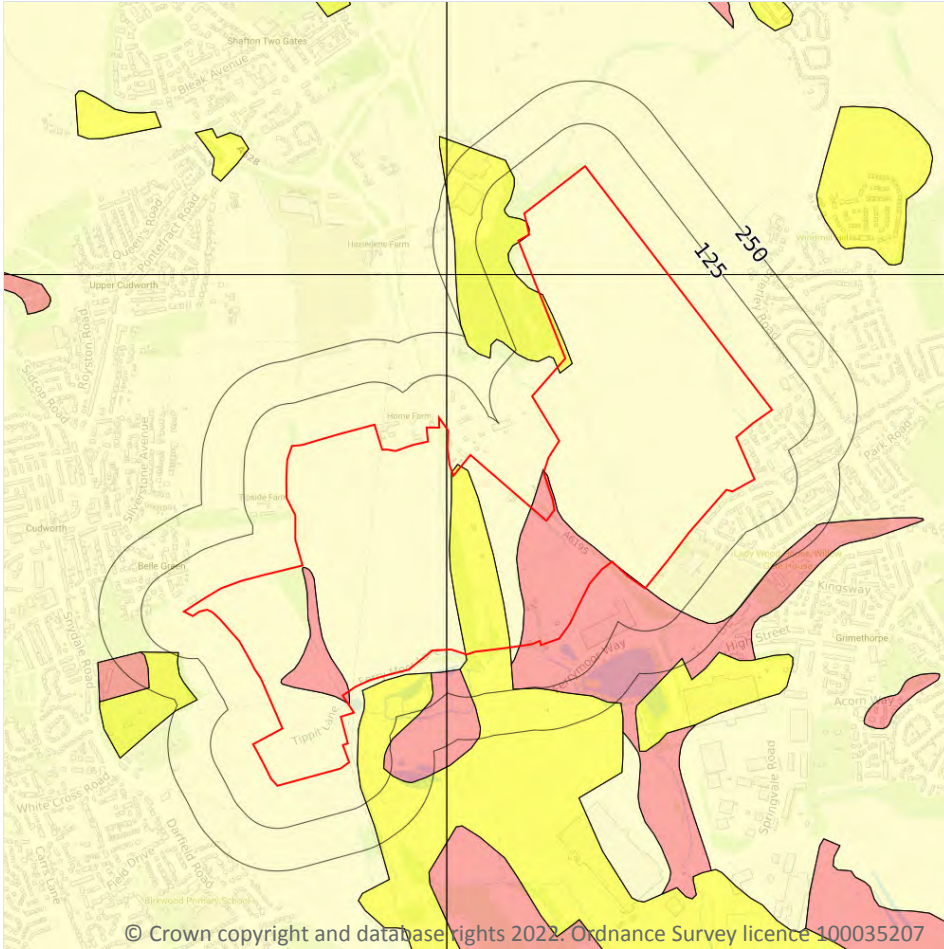
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
12m SW	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

6

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 142**

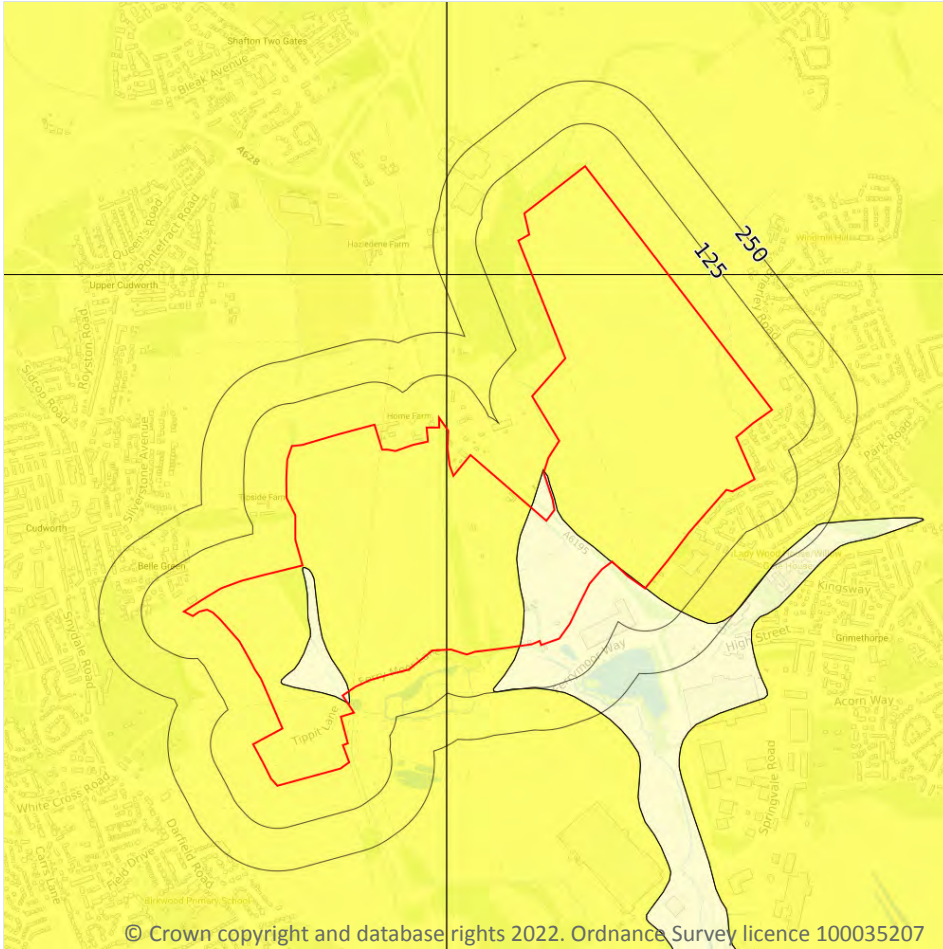
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
12m SW	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.
48m S	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
49m S	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

2

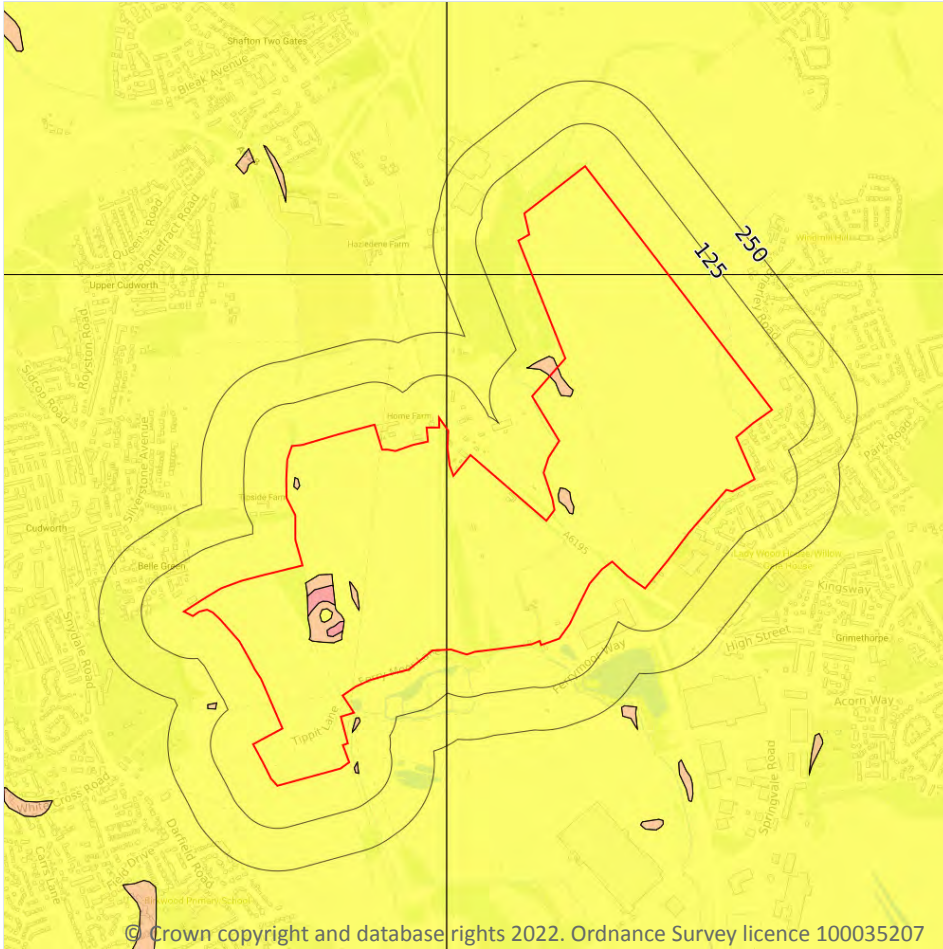
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 144**

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

5

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 145**

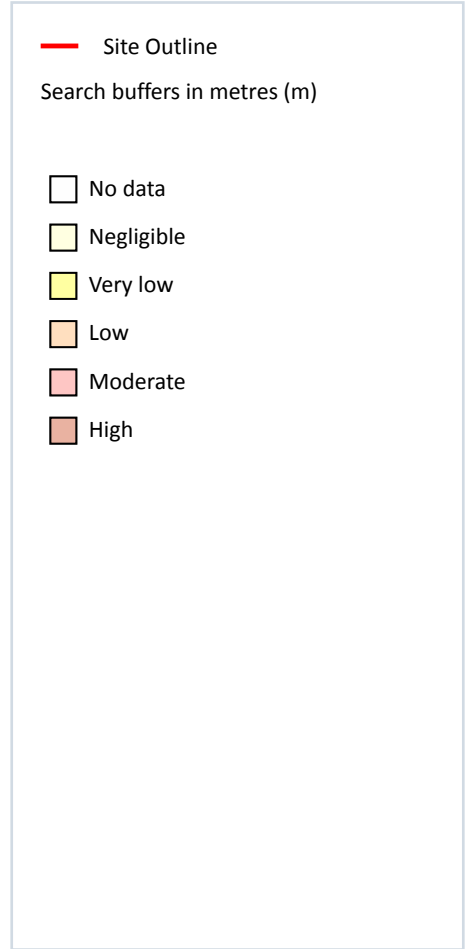
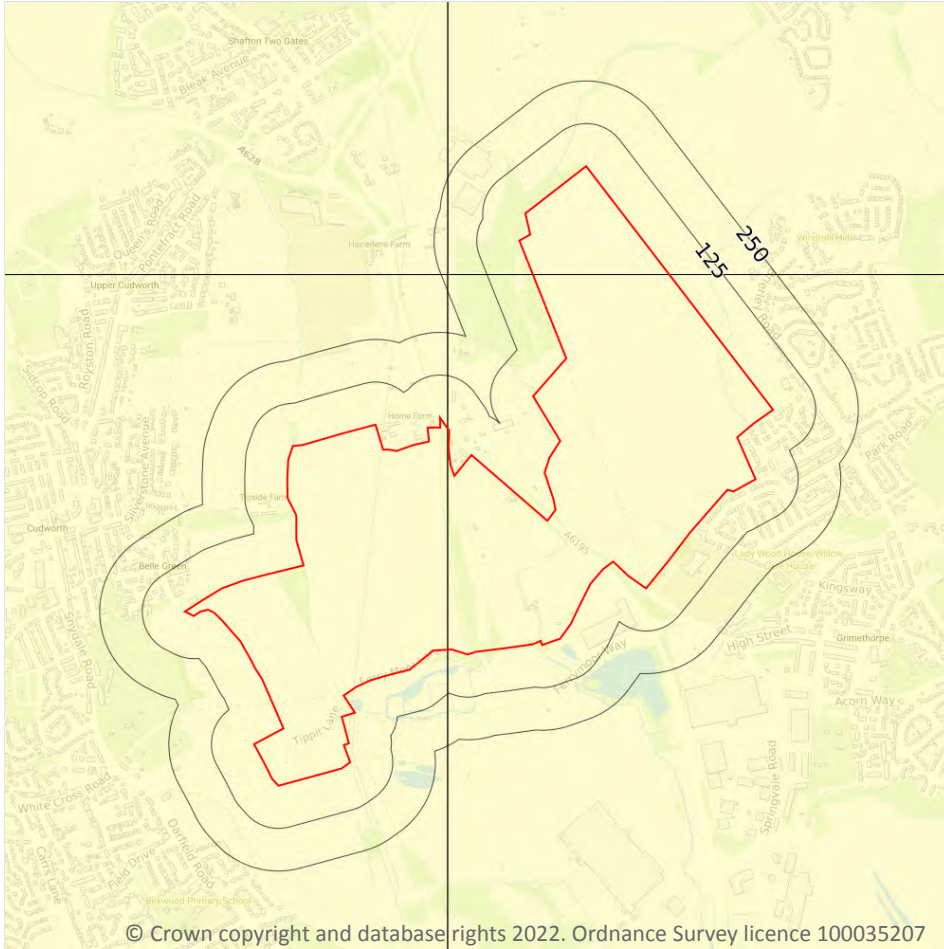
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
17m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
21m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

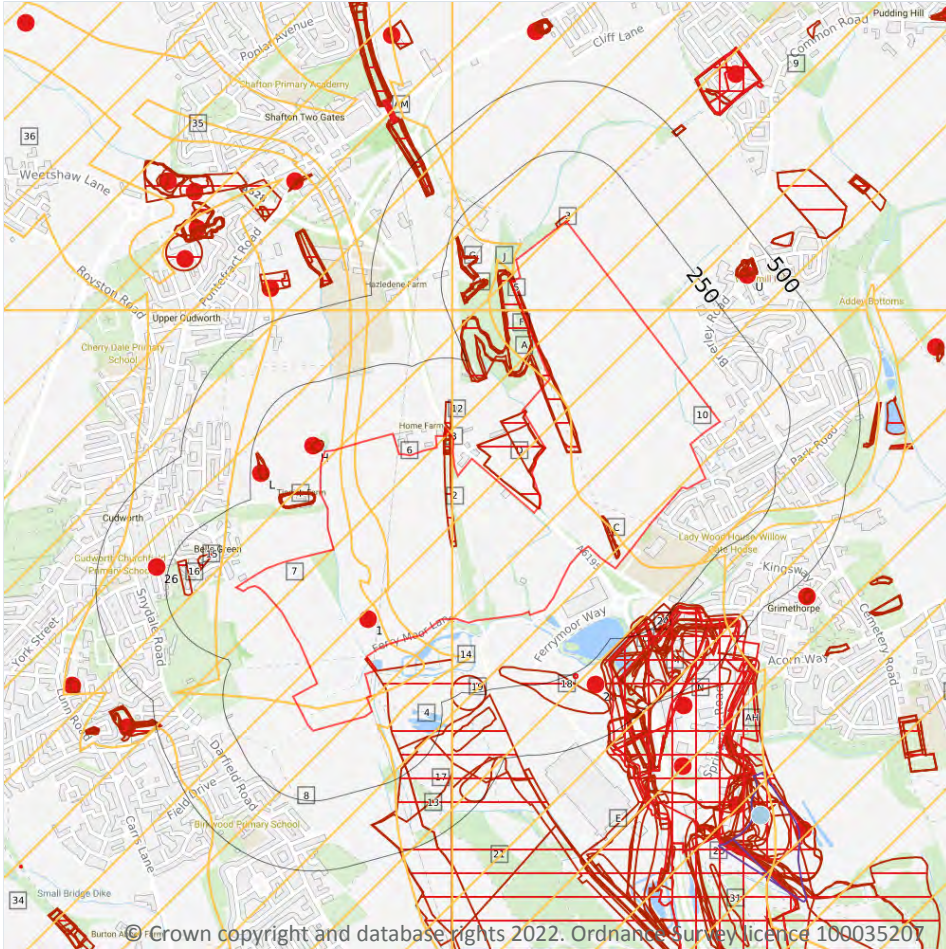
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 147**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

6

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 149**

ID	Location	Details	Description
1	On site	Name: Ferry Moor Revised OCCS Address: BARNSELEY, South Yorkshire Commodity: Coal, Surface Mined Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
H	47m W	Name: South Hiendley Upper Cudworth Address: Cudworth, BARNSELEY, South Yorkshire Commodity: Coal, Deep Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
L	211m W	Name: Cudworth Quarry Address: Cudworth, BARNSELEY, South Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
26	293m W	Name: Market Street Address: Cudworth, BARNSELEY, South Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
28	322m SE	Name: Ferry Moor Revised Reclamation Scheme Address: BARNSELEY, South Yorkshire Commodity: Coal, Surface Mined Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
U	397m NE	Name: Windmill Hill Address: Grimethorpe, BARNSELEY, South Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	74
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Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 149**

ID	Location	Land Use	Year of mapping	Mapping scale
2	On site	Cuttings	1904	1:10560
3	On site	Cuttings	1951	1:10560
4	On site	Refuse Heap	1982	1:10000
5	On site	Refuse Heap	1951	1:10560
A	On site	Refuse Heaps	1955	1:10560
A	On site	Refuse Heaps	1948	1:10560
A	On site	Refuse Heaps	1938	1:10560
A	On site	Refuse Heaps	1938	1:10560
B	On site	Cuttings	1948	1:10560
B	On site	Cuttings	1904	1:10560
B	On site	Cuttings	1938	1:10560
B	On site	Cuttings	1951	1:10560
B	On site	Cuttings	1930	1:10560
B	On site	Cuttings	1930	1:10560
B	On site	Cuttings	1930	1:10560
B	On site	Cuttings	1930	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
C	On site	Refuse Heap	1938	1:10560
C	On site	Refuse Heap	1938	1:10560
C	On site	Refuse Heap	1948	1:10560
D	On site	Sewage Works	1988	1:10000
D	On site	Sewage Works	1981	1:10000
F	2m N	Refuse Heap	1930	1:10560
F	2m N	Refuse Heap	1930	1:10560
F	2m N	Refuse Heap	1930	1:10560
F	2m N	Refuse Heap	1930	1:10560
11	4m NE	Sewage Works	1955	1:10560
12	7m NW	Cuttings	1904	1:10560
H	14m W	Old Coal Pit	1854	1:10560
H	14m W	Old Coal Pit	1854	1:10560
I	20m W	Unspecified Heap	1938	1:10560
I	20m W	Unspecified Heap	1938	1:10560
I	23m W	Refuse Heap	1948	1:10560
I	25m W	Unspecified Heap	1974	1:10000
I	25m W	Unspecified Heap	1966	1:10560
I	25m W	Unspecified Heap	1951	1:10560
K	85m N	Refuse Heap	1930	1:10560
K	85m N	Refuse Heap	1930	1:10560
K	85m N	Refuse Heap	1930	1:10560
K	85m N	Refuse Heap	1930	1:10560
K	85m N	Refuse Heap	1951	1:10560
K	86m N	Refuse Heap	1938	1:10560
K	86m N	Refuse Heap	1938	1:10560
K	86m N	Refuse Heap	1948	1:10560
G	121m N	Refuse Heap	1951	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
G	123m N	Refuse Heap	1930	1:10560
G	123m N	Refuse Heap	1930	1:10560
G	123m N	Refuse Heap	1930	1:10560
G	123m N	Refuse Heap	1930	1:10560
G	124m N	Refuse Heap	1948	1:10560
G	125m N	Refuse Heap	1938	1:10560
G	125m N	Refuse Heap	1938	1:10560
15	138m W	Unspecified Pit	1982	1:10000
16	158m W	Unspecified Pit	1982	1:10000
17	164m S	Refuse Heap	1992	1:10000
18	176m S	Refuse Heap	1955	1:10560
L	187m W	Unspecified Pit	1904	1:10560
19	189m S	Unspecified Workings	1981	1:10000
L	190m W	Unspecified Pit	1890	1:10560
20	196m SE	Collieries	1955	1:10560
21	202m S	Opencast Workings	1974	1:10000
M	206m SE	Colliery	1938	1:10560
M	206m SE	Refuse Heaps	1938	1:10560
M	206m SE	Colliery	1938	1:10560
M	206m SE	Refuse Heaps	1938	1:10560
M	207m SE	Refuse Heap	1948	1:10560
N	208m SE	Colliery	1981	1:10000
N	208m SE	Colliery	1988	1:10000
O	209m SE	Sewage Works	1904	1:10560
M	221m SE	Refuse Heap	1955	1:10560
24	226m SE	Sewage Works	1988	1:10000
M	233m SE	Refuse Heap	1981	1:10000
O	233m SE	Unspecified Disused Tip	1988	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
P	235m SE	Refuse Heap	1967	1:10560
O	236m SE	Unspecified Ground Workings	1967	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

14

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 149**

ID	Location	Land Use	Year of mapping	Mapping scale
23	223m SE	Unspecified Mine	1967	1:10560
Q	254m SE	Unspecified Workings	1988	1:10000
M	259m SE	Colliery	1948	1:10560
31	381m SE	Colliery	1948	1:10560
Y	419m SE	Colliery	1904	1:10560
AH	564m SE	Colliery	1981	1:10000
AM	655m N	Tunnel	1989	1:10000
AM	655m N	Tunnel	1978	1:10000
AM	655m N	Tunnel	1966	1:10560
AM	655m N	Tunnel	1951	1:10560
AL	657m NE	Colliery	1948	1:10560
AM	658m N	Tunnel	1948	1:10560
AM	658m N	Tunnel	1904	1:10560
AL	660m NE	Disused Colliery	1951	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

18

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 149**

ID	Location	Name	Commodity	Class	Likelihood
6	On site	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
7	On site	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
8	On site	Sheffield Area	Iron Ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
9	On site	Sheffield Area	Iron Ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
10	On site	Sheffield Area	Iron Ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
E	On site	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered



ID	Location	Name	Commodity	Class	Likelihood
G	8m N	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
J	41m N	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
13	50m SW	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
J	59m N	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
14	122m S	Sheffield Area	Iron Ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
22	210m N	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
25	277m E	Sheffield Area	Iron Ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
29	359m N	Sheffield Area	Iron Ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
34	434m W	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
35	450m NW	Sheffield Area	Iron Ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered



ID	Location	Name	Commodity	Class	Likelihood
36	536m NW	Sheffield Area	Iron Ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	954m S	Sheffield Area	Iron Ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m **0**

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site **0**

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site **1**

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.



18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

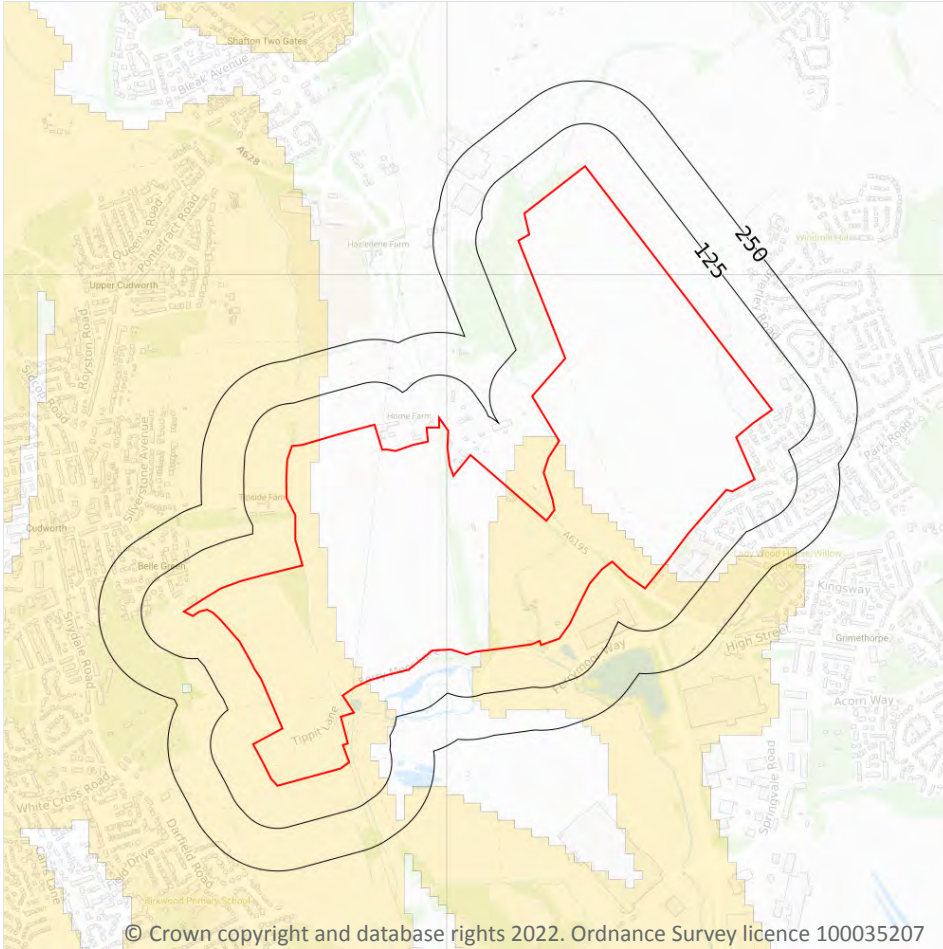
18.13 Clay mining

Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



— Site Outline
 Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site

2

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 159**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None
On site	Less than 1%	None**



This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

64

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
1m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
3m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
3m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
8m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
44m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
46m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
46m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.



20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

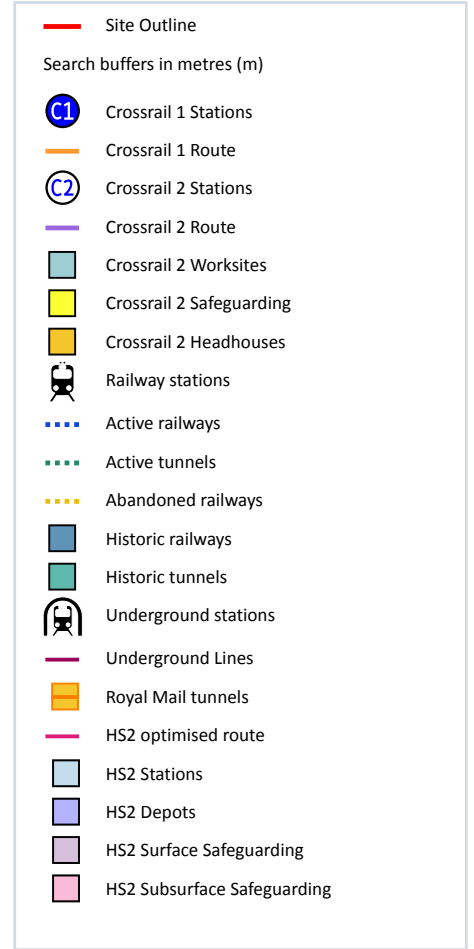
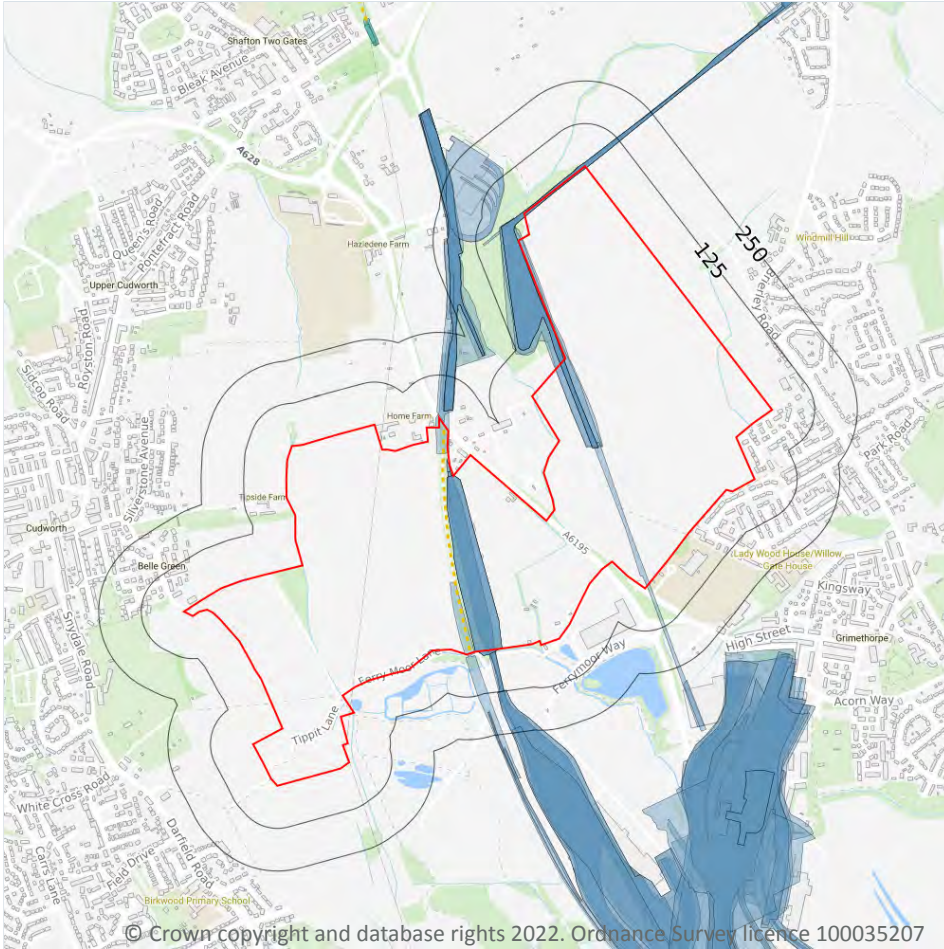
0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0
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Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	29
----------------------------	-----------

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 166**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1996	2500
On site	Railway Sidings	1984	2500
On site	Railway Sidings	1978	2500
On site	Railway Sidings	1972	2500
On site	Railway Sidings	1961	2500
On site	Railway Sidings	1985	2500
On site	Tramway Sidings	1913	2500
On site	Railway	1904	-
On site	Railway Sidings	1988	10000
On site	Railway Sidings	1981	10000
On site	Tramway Sidings	1948	10560
On site	Tramway Sidings	1938	10560
On site	Tramway Sidings	1930	10560
On site	Railway Sidings	1966	10560
On site	Railway Sidings	1967	10560
5m NW	Railway Sidings	1938	10560
22m NW	Railway Sidings	1948	10560



Location	Land Use	Year of mapping	Mapping scale
24m NW	Railway Sidings	1930	10560
25m NW	Railway Sidings	1913	2500
75m N	Railway Sidings	1967	10560
79m N	Railway Sidings	1961	2500
122m S	Railway Sidings	1988	10000
122m S	Railway Sidings	1981	10000
180m S	Railway Sidings	1985	2500
181m S	Railway Sidings	1984	2500
191m N	Railway Sidings	1961	2500
213m N	Railway Sidings	1955	10560
232m N	Railway Sidings	1966	10560
234m S	Railway Sidings	1967	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

1

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

Features are displayed on the Railway infrastructure and projects map on **page 166**

Location	Description
On site	Abandoned

This data is sourced from OpenStreetMap.



21.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

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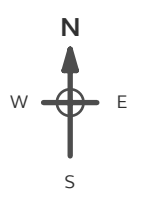
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Grid Ref: 439341, 408409

Map Name: National Grid

Map date: 1976

Scale: 1:1,250

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Client Ref: D10837
Report Ref: GS-9190126_1250_1_1
Grid Ref: 439341, 408409

Map Name: National Grid

Map date: 1988

Scale: 1:1,250

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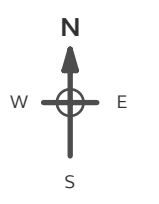


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Report Ref: GS-9190126_1250_1_1
Grid Ref: 439341, 408409

Map Name: National Grid
Map date: 1990-1993
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Report Ref: GS-9190126_1250_1_1
Grid Ref: 439341, 408409

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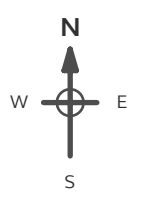
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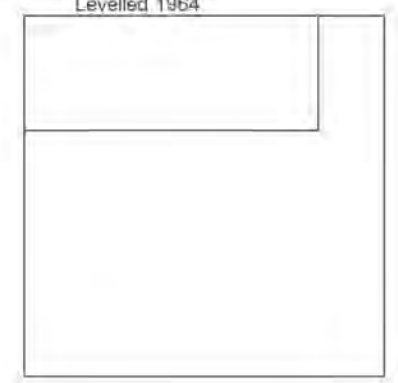
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Grid Ref: 439341, 408909

Map Name: National Grid
Map date: 1982
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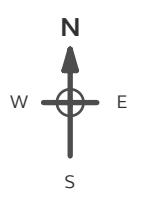
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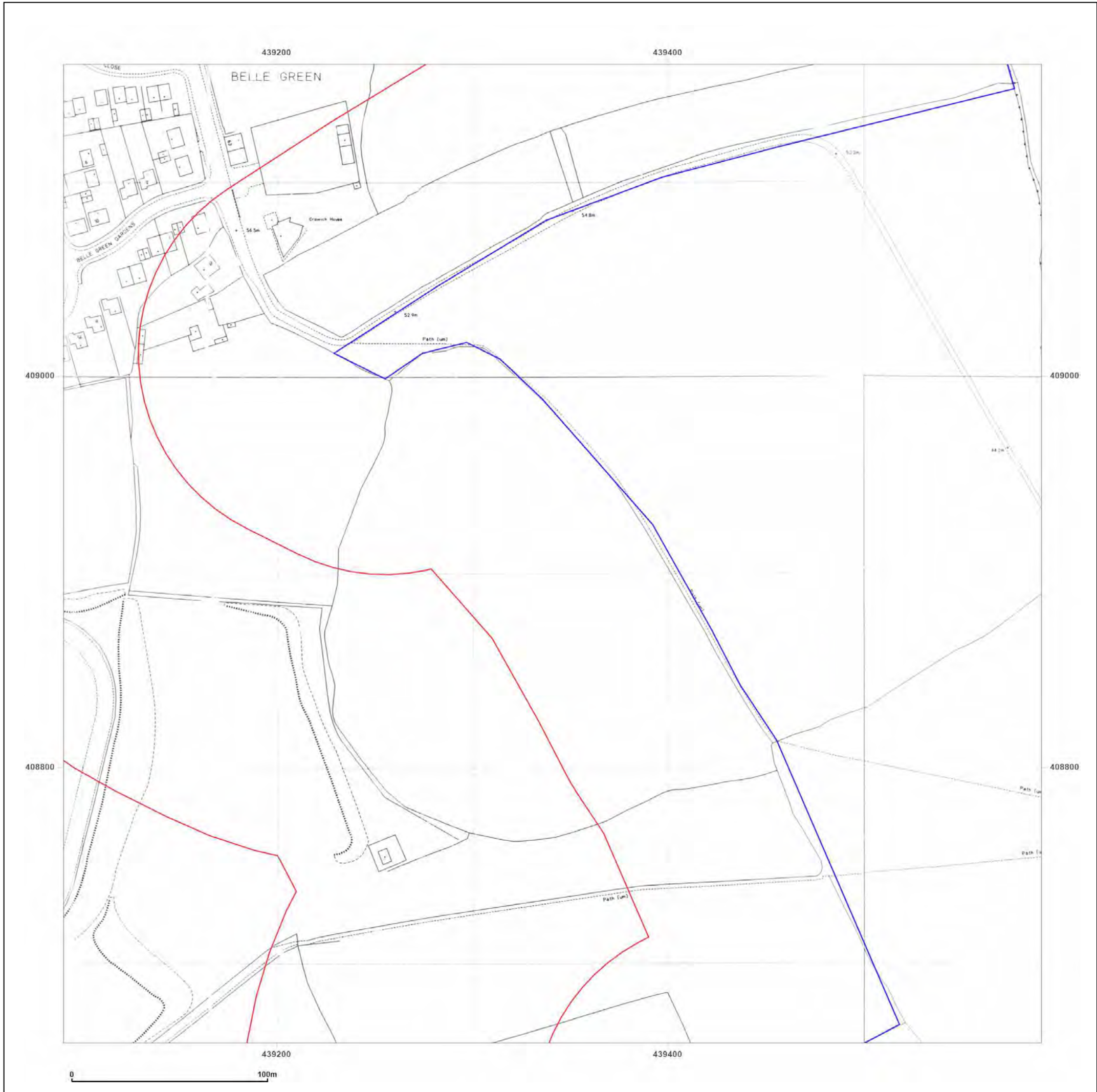
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Grid Ref: 439341, 408909

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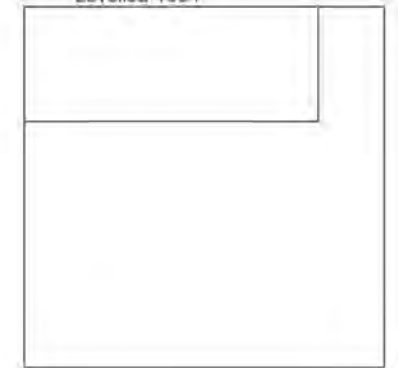
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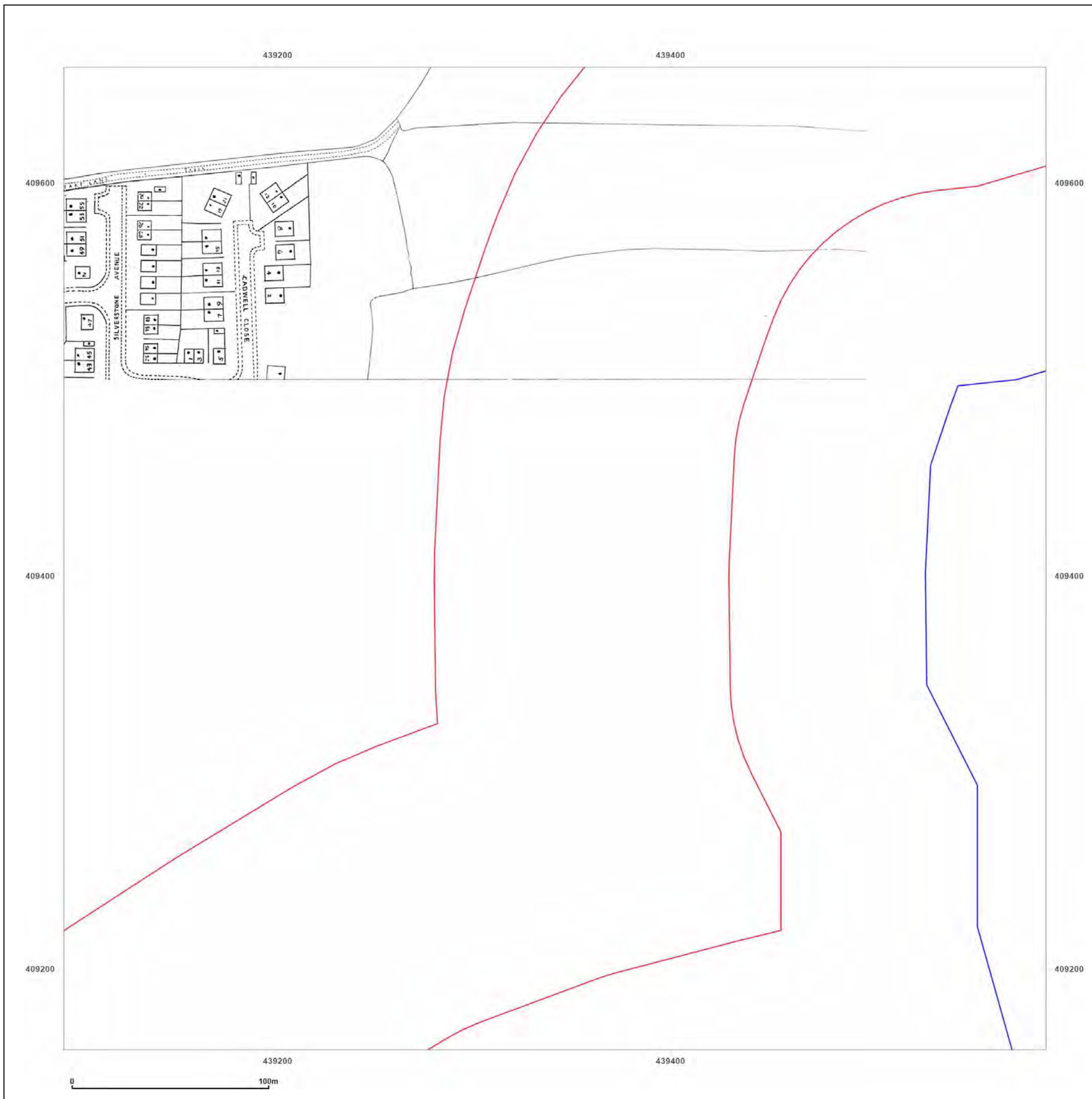


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Grid Ref: 439341, 409409

Map Name: National Grid

Map date: 1977-1982

Scale: 1:1,250

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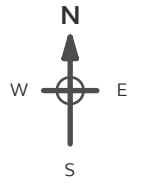


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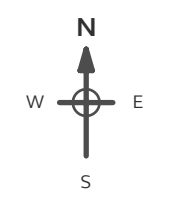
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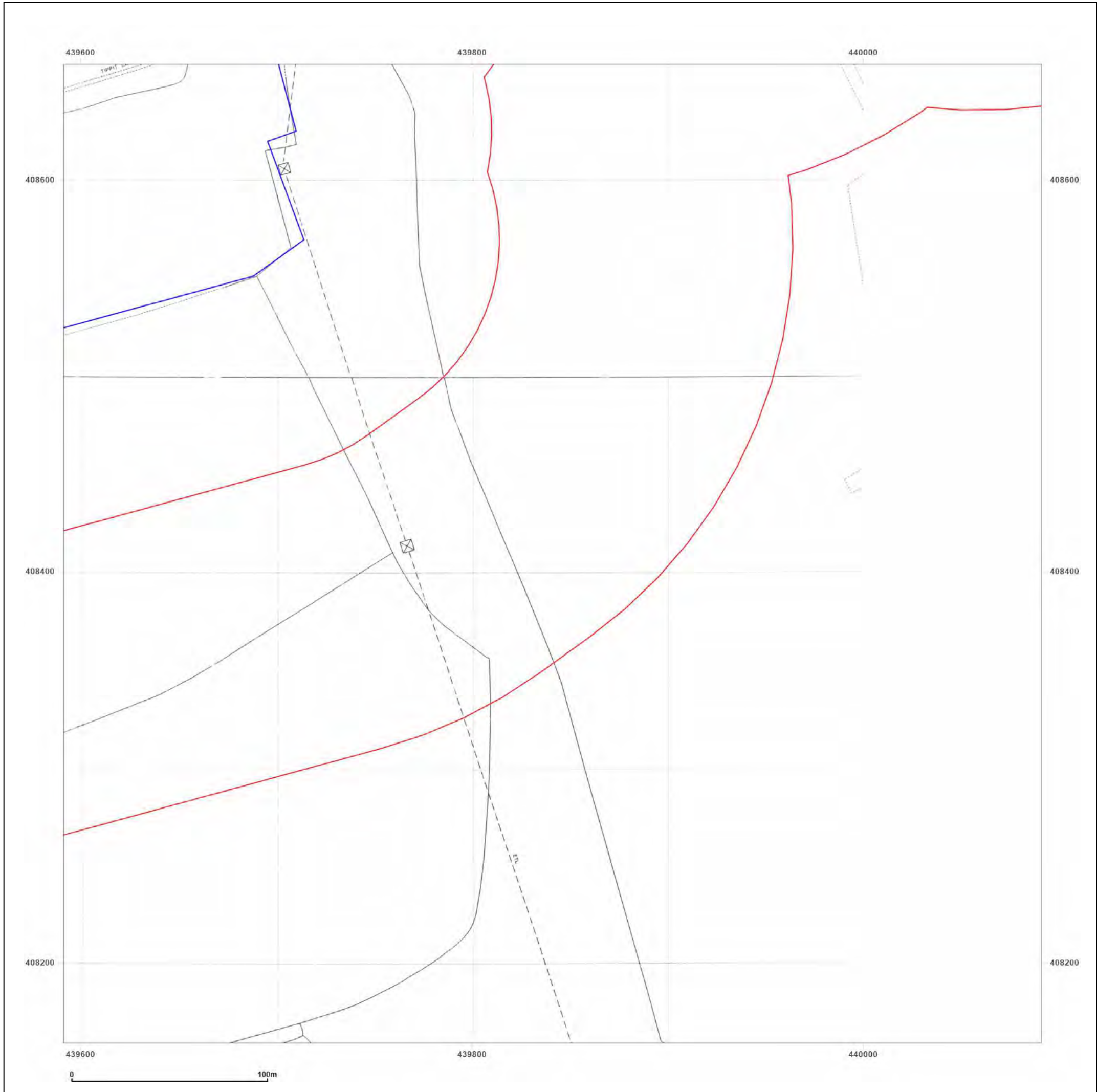
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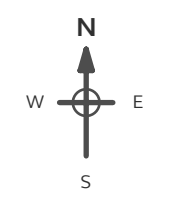
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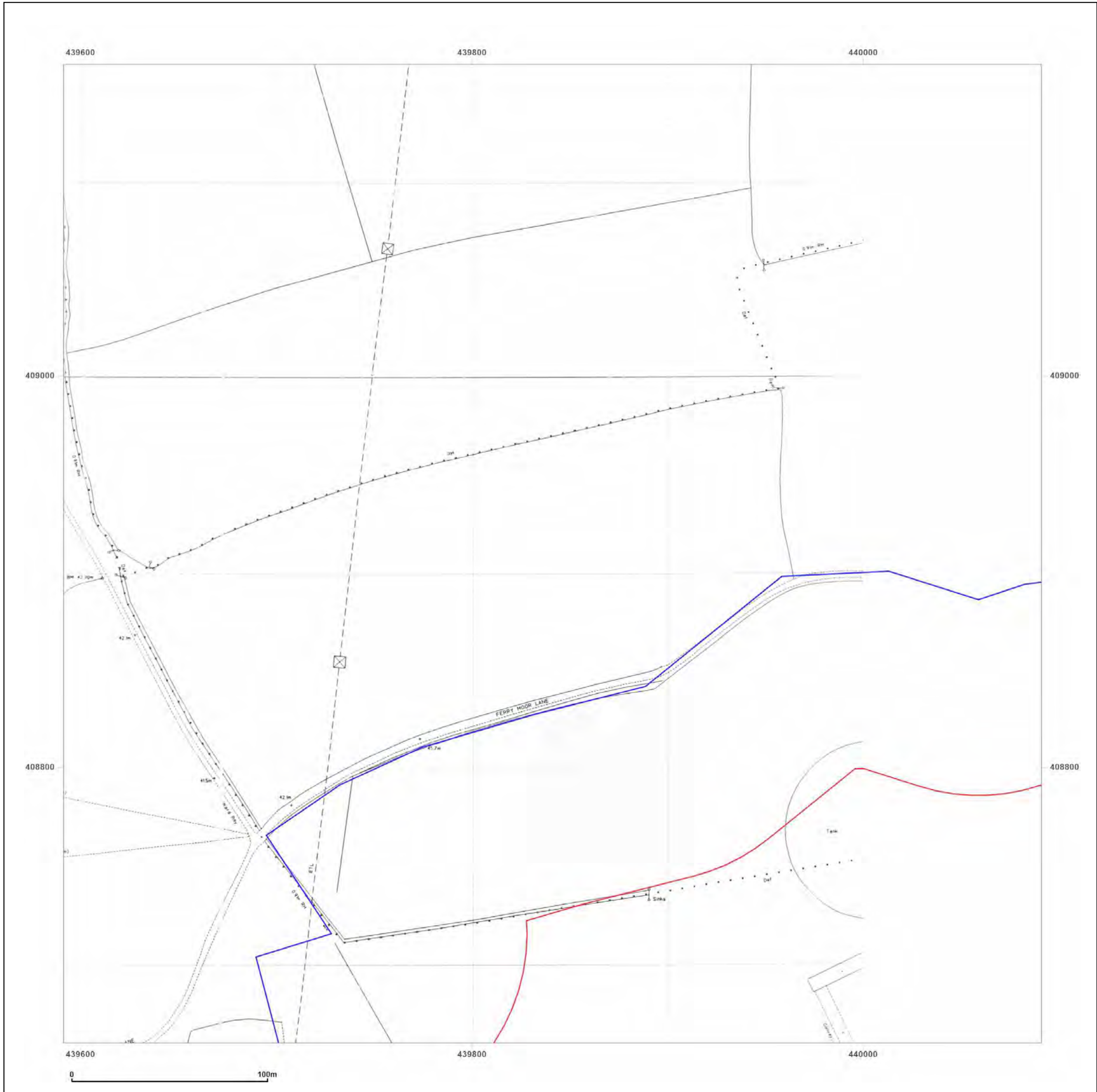
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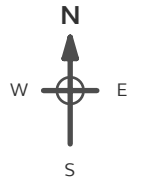
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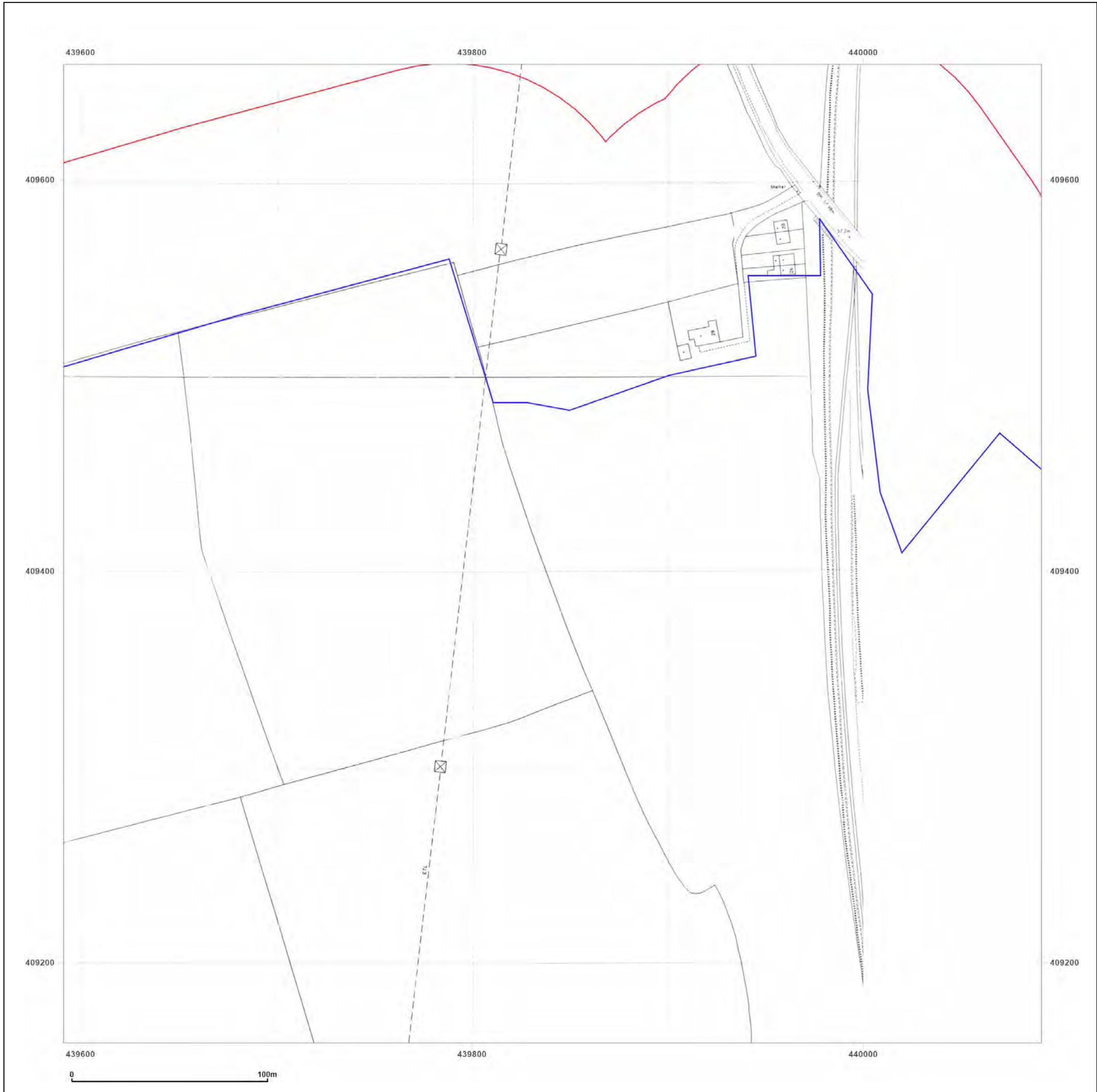
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Client Ref: D10837
Report Ref: GS-9190126_1250_2_4
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Map Name: National Grid

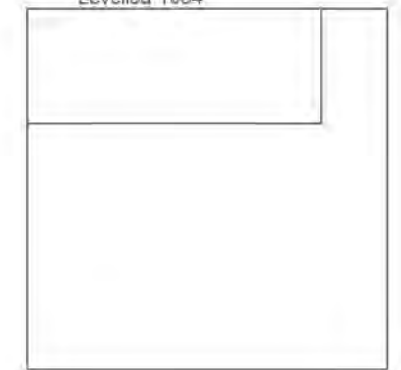
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Edition N/A
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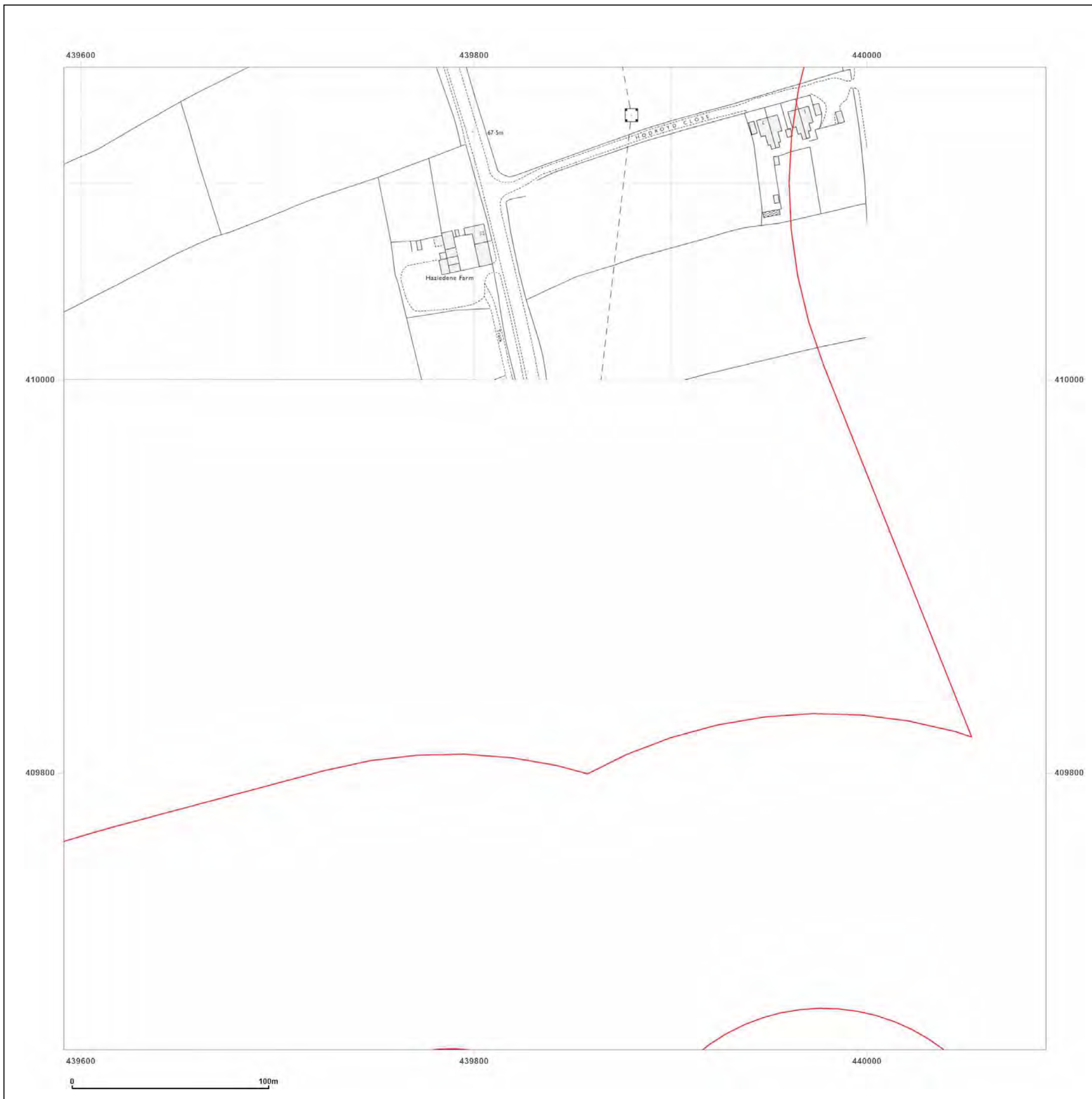


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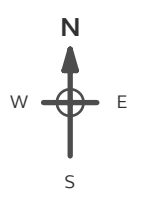
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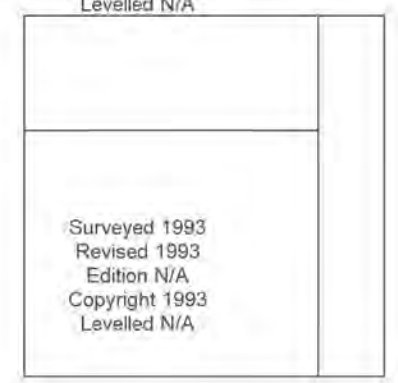
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Grid Ref: 439841, 409909

Map Name: National Grid
Map date: 1993
Scale: 1:1,250
Printed at: 1:2,000



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 Edition N/A
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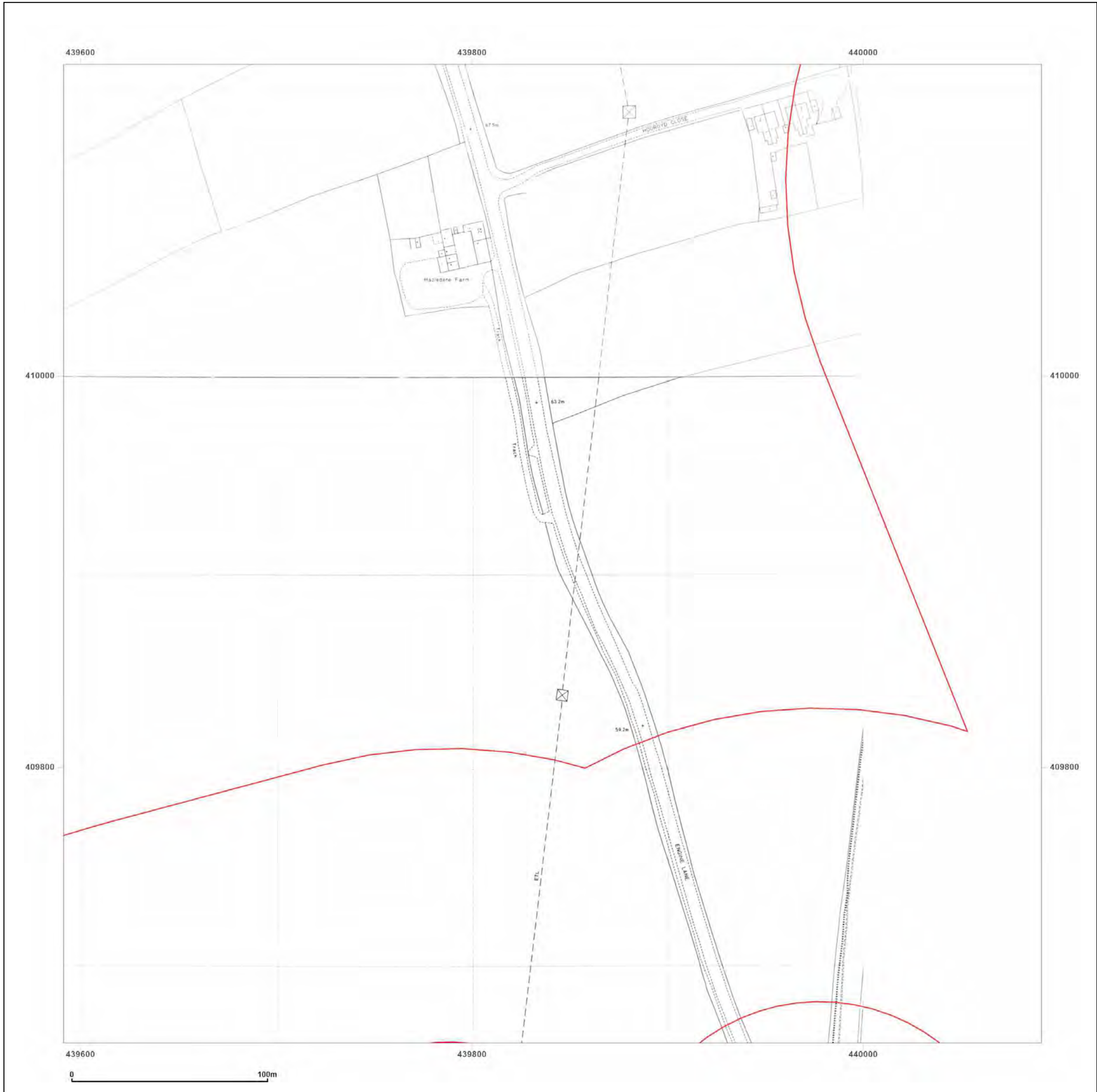


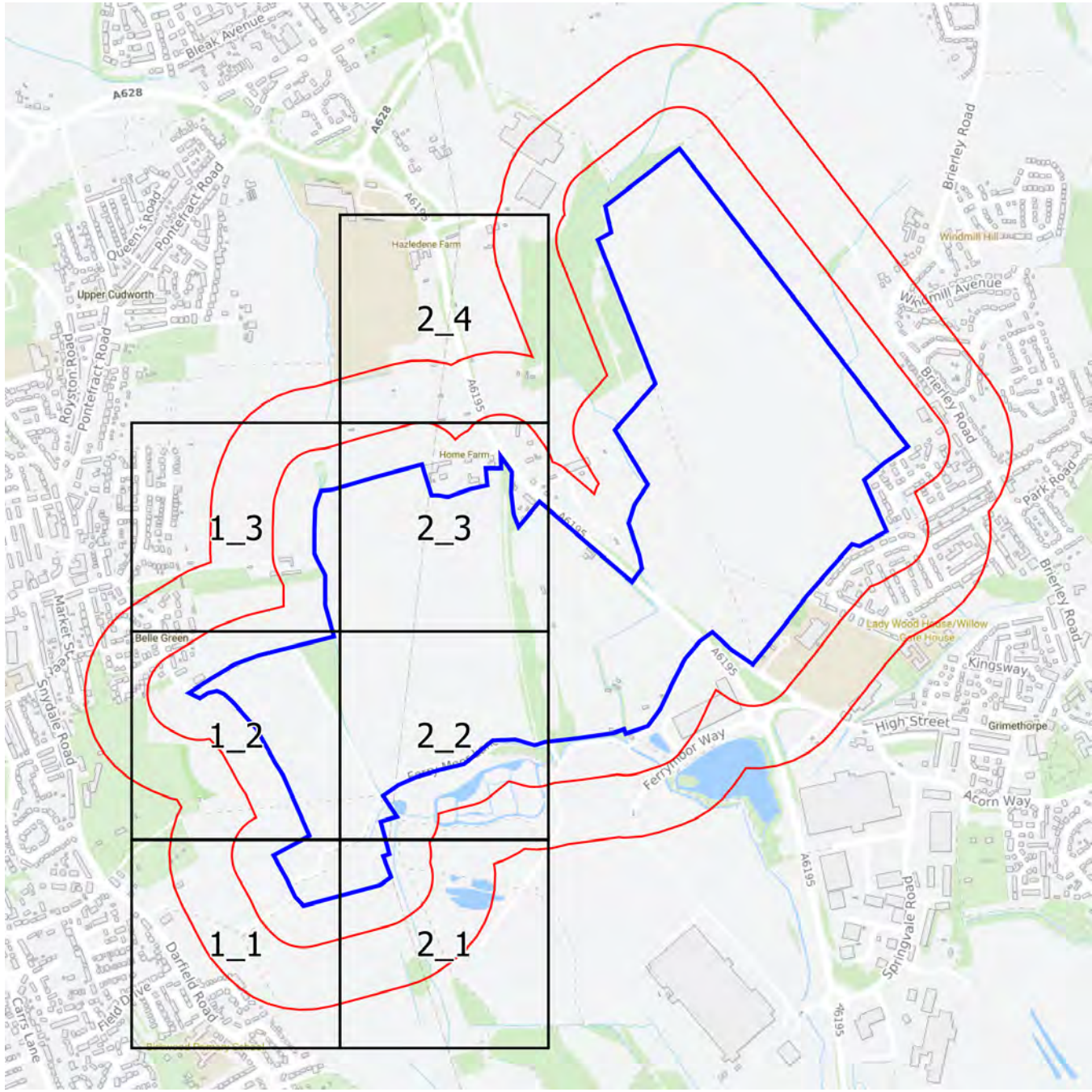
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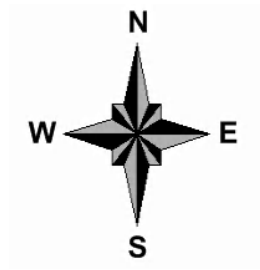
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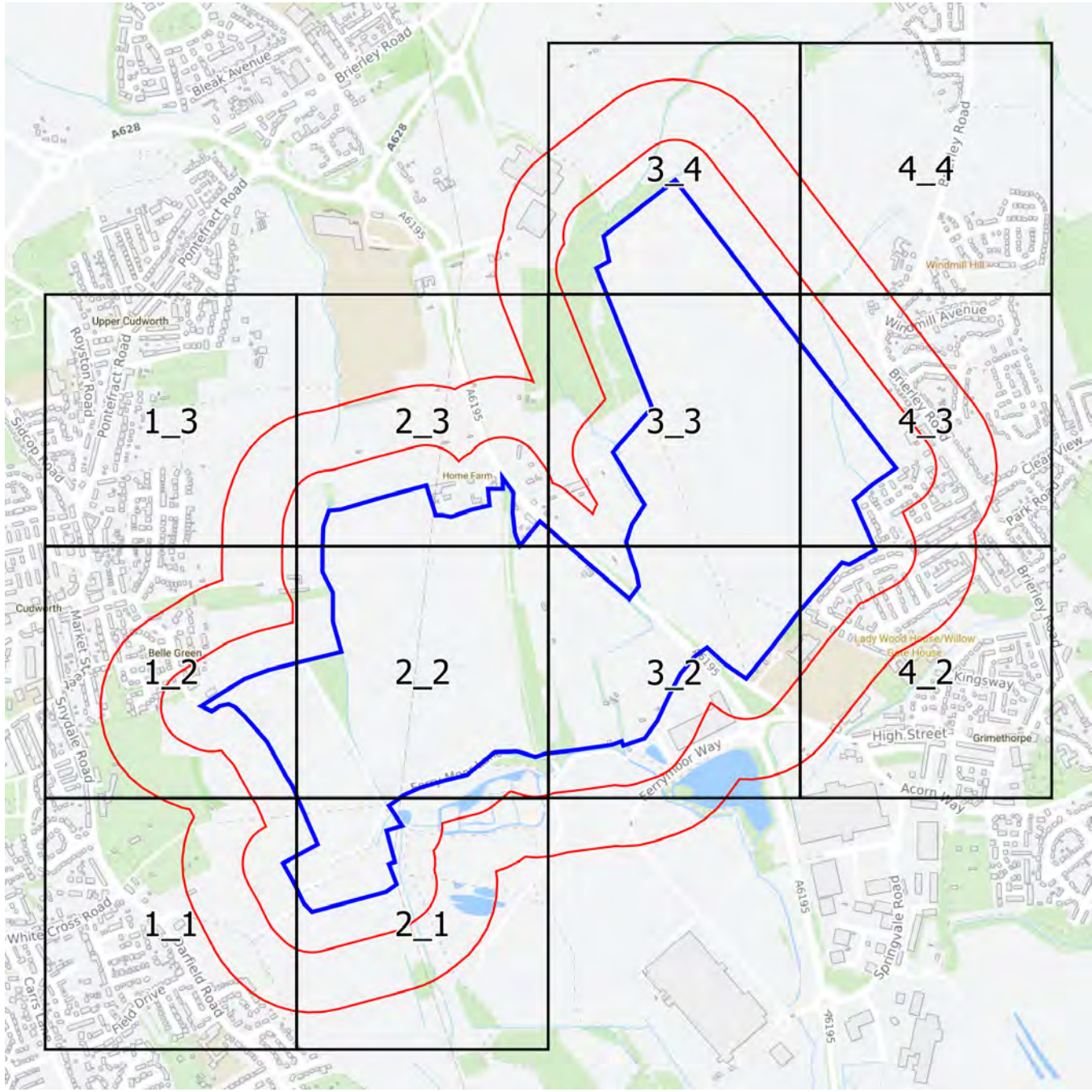




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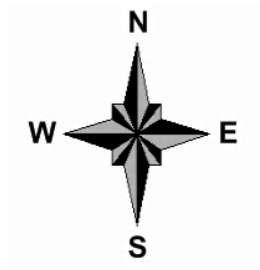
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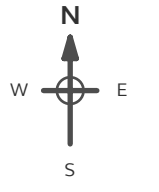
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Report Ref: GS-9190126_LS_1_1
Grid Ref: 439153, 408471

Map Name: County Series
Map date: 1893
Scale: 1:2,500
Printed at: 1:2,500



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 Edition 1893
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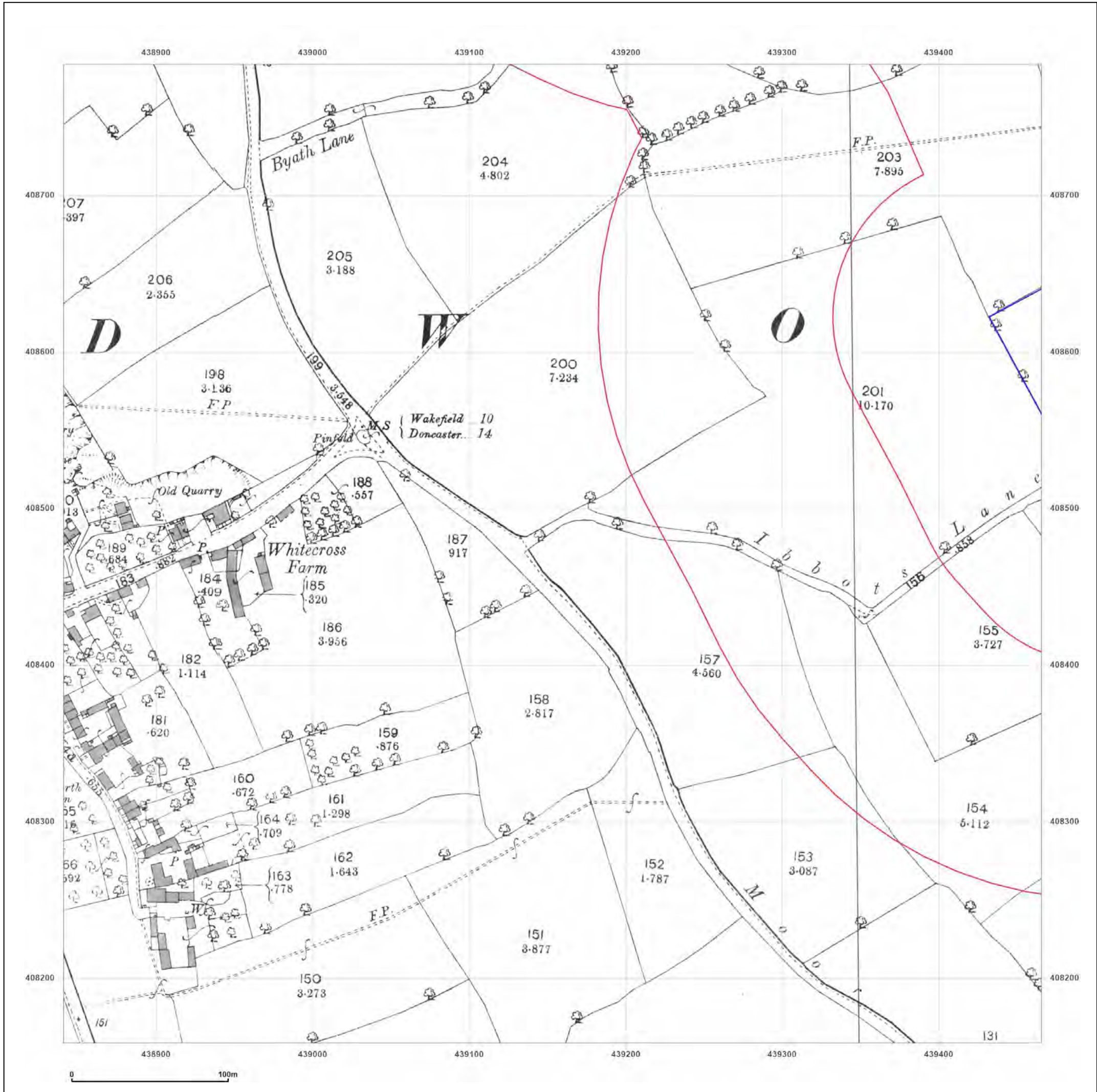
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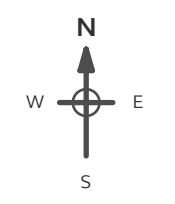
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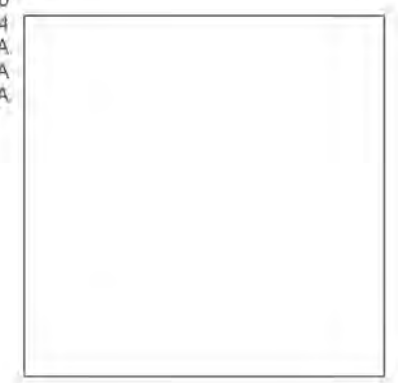
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Scale: 1:2,500

Printed at: 1:2,500



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 Levelled N/A

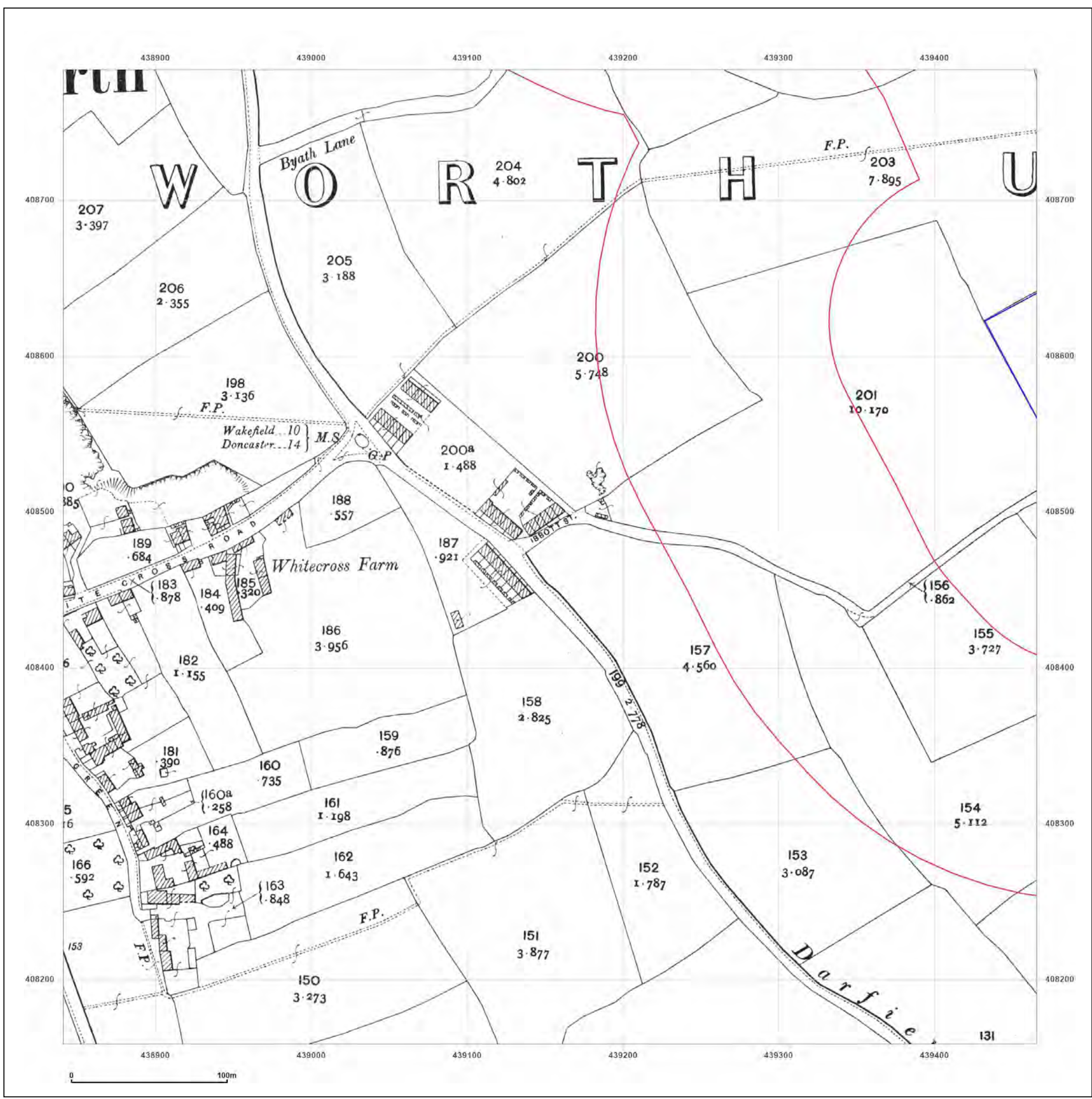


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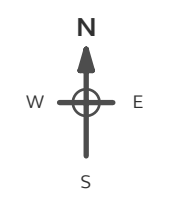
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 Grid Ref: 439153, 408471

Map Name: County Series

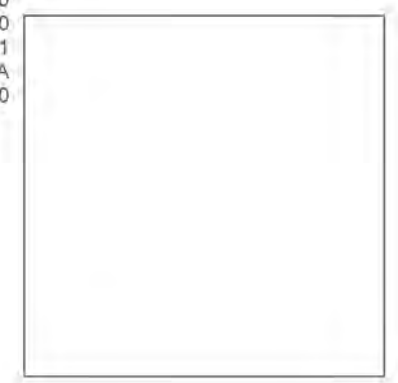
Map date: 1931

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1880
 Revised 1930
 Edition 1931
 Copyright N/A
 Levelled 1930

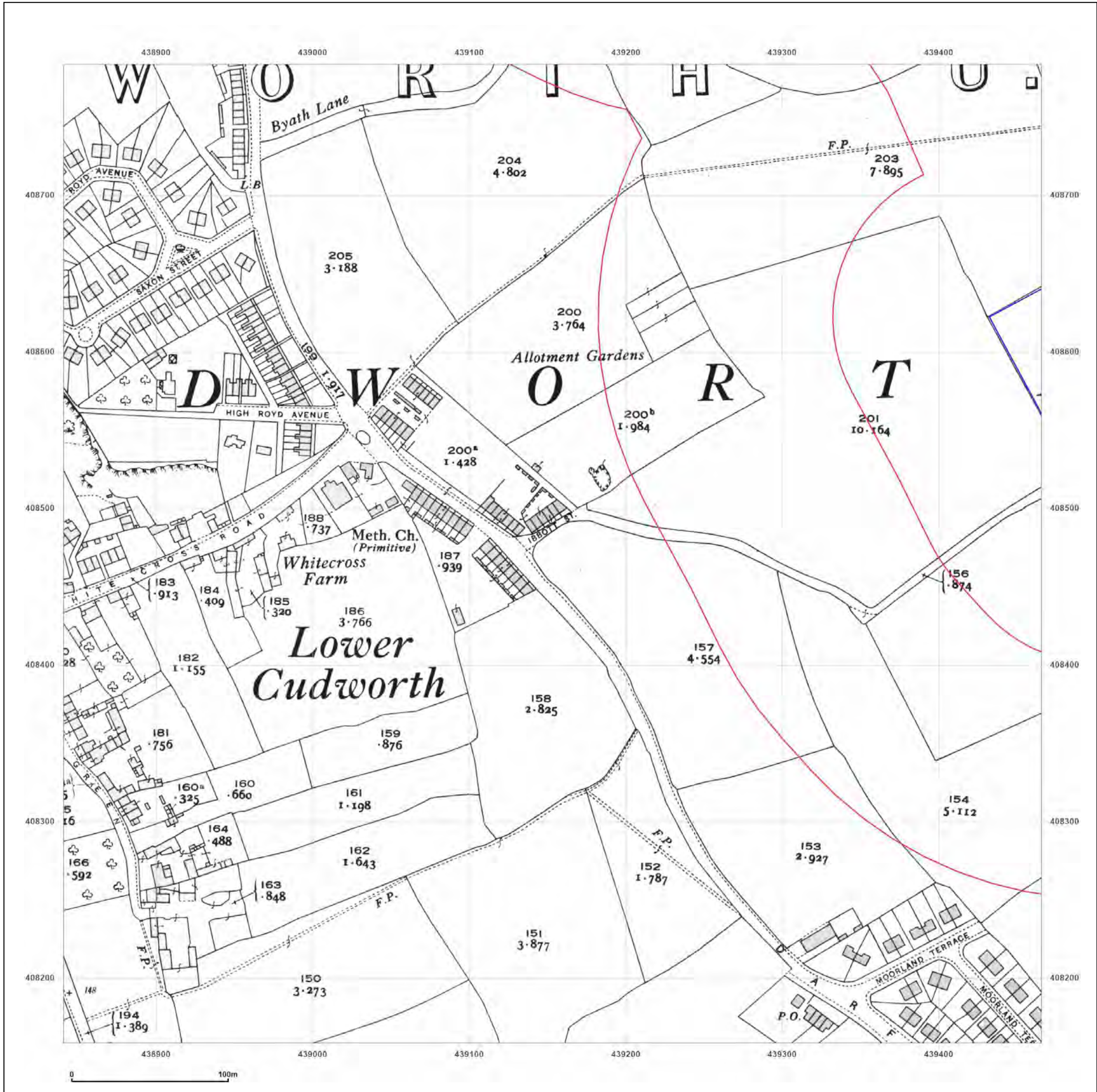


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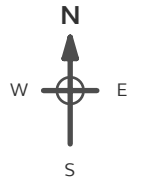
Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:
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Client Ref: D10837
Report Ref: GS-9190126_LS_1_1
Grid Ref: 439153, 408471

Map Name: National Grid
Map date: 1962
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1961
 Revised 1961
 Edition N/A
 Copyright 1962
 Levelled 1959

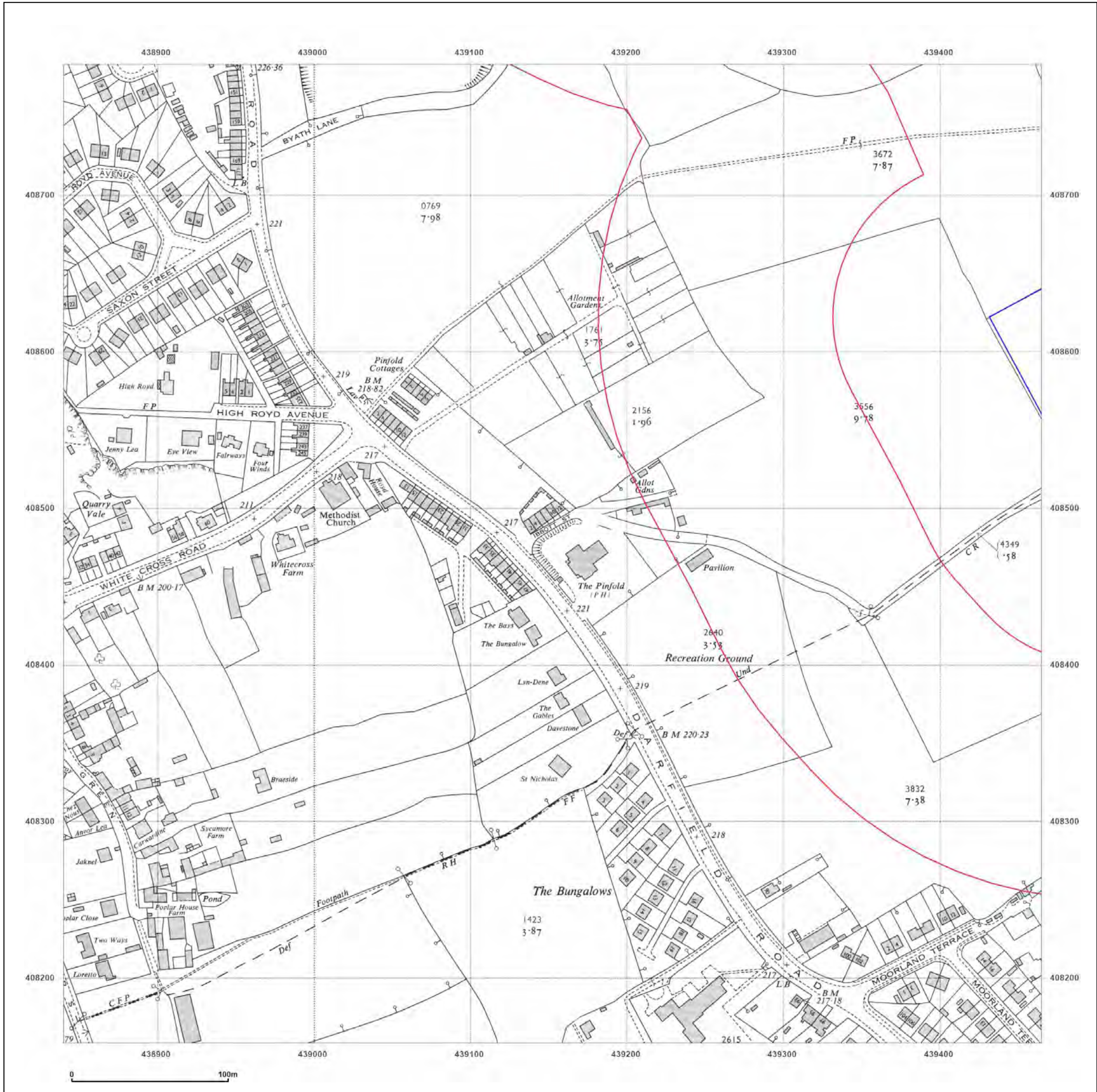


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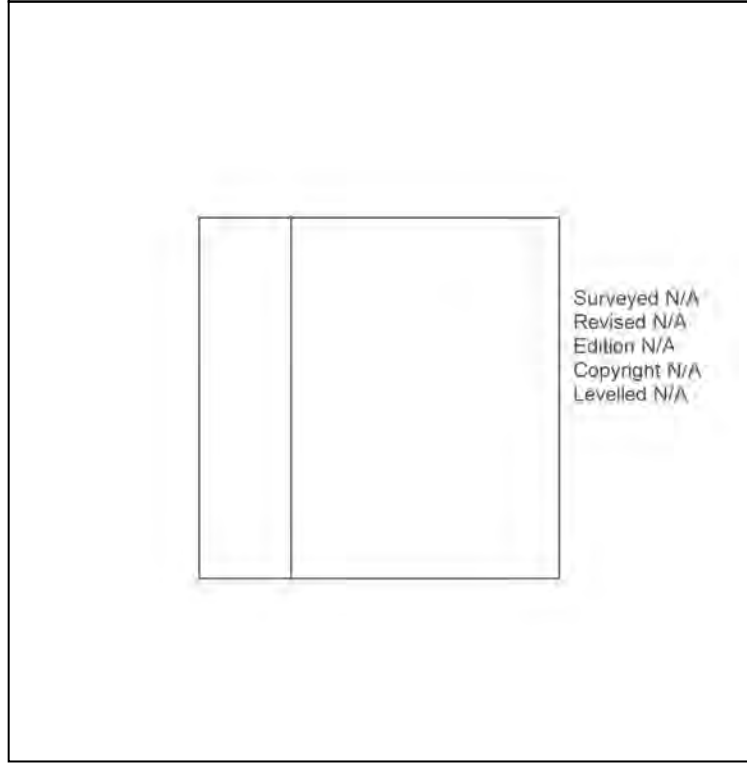
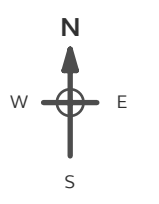


Site Details:

STREET RECORD, FERRYMOOR WAY, GRIMETHORPE, BARNSELY, S72 7BN

Client Ref: D10837
 Report Ref: GS-9190126_LS_1_1
 Grid Ref: 439153, 408471

Map Name: National Grid
 Map date: 1970
 Scale: 1:2,500
 Printed at: 1:2,500

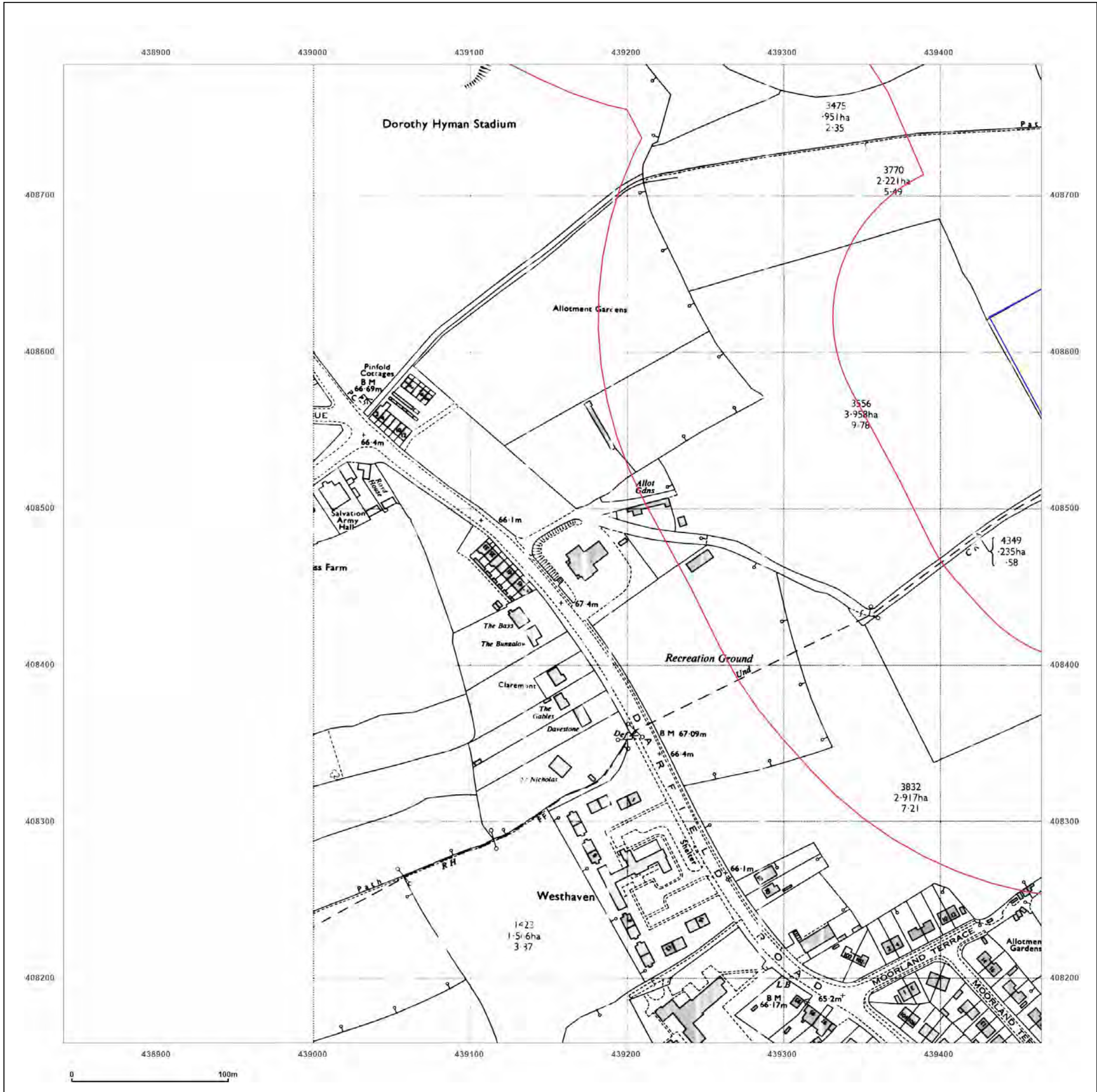


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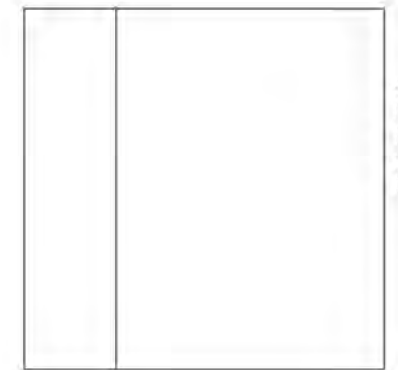
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 Grid Ref: 439153, 408471

Map Name: National Grid

Map date: 1988

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1988
 Revised 1988
 Edition N/A
 Copyright 1988
 Levelled N/A

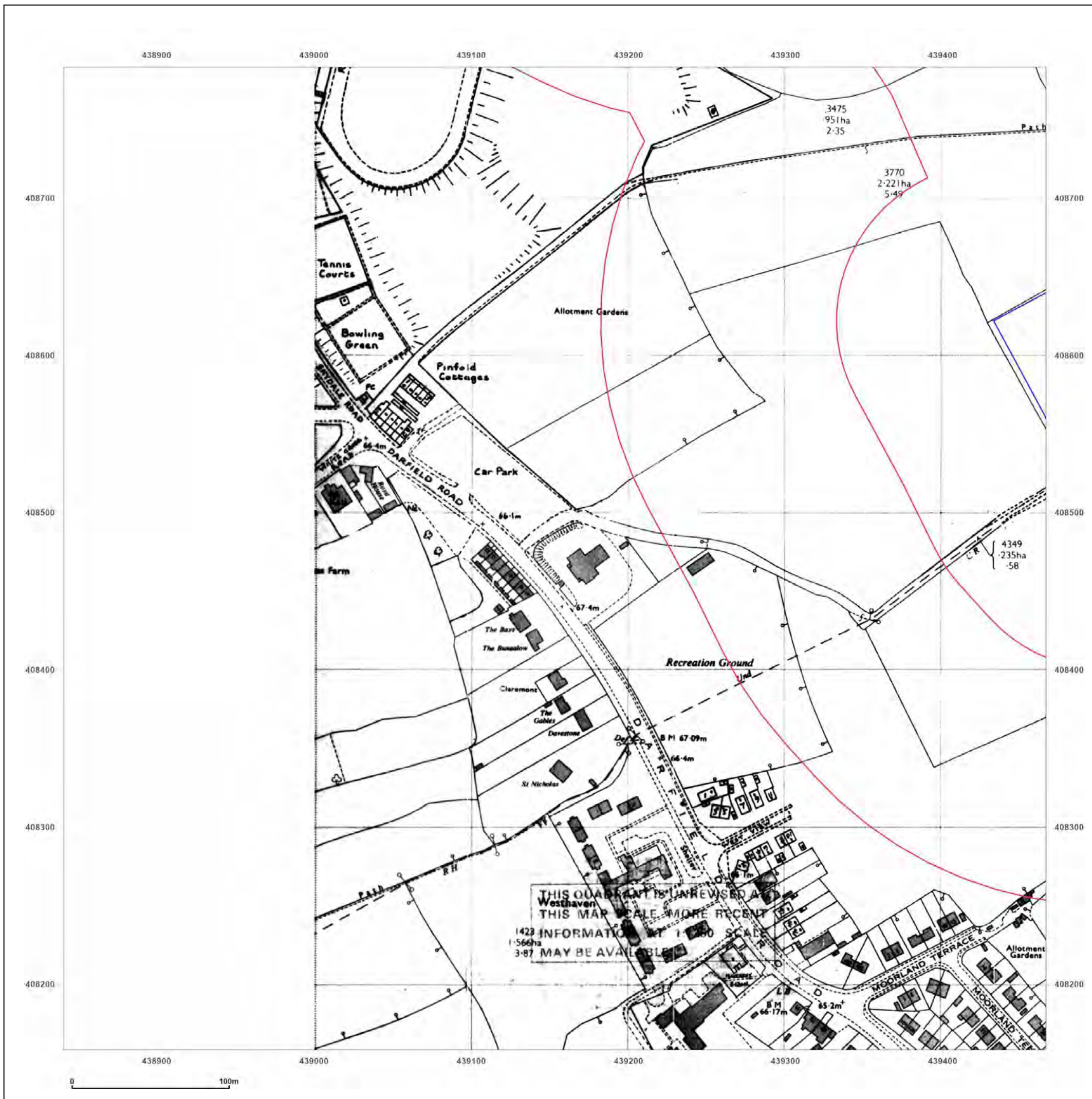


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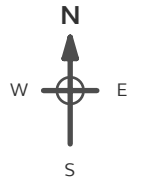
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Grid Ref: 439153, 409096

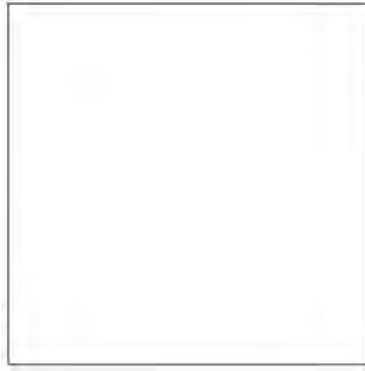
Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500





Surveyed 1893
 Revised N/A
 Edition 1893
 Copyright N/A
 Levelled N/A

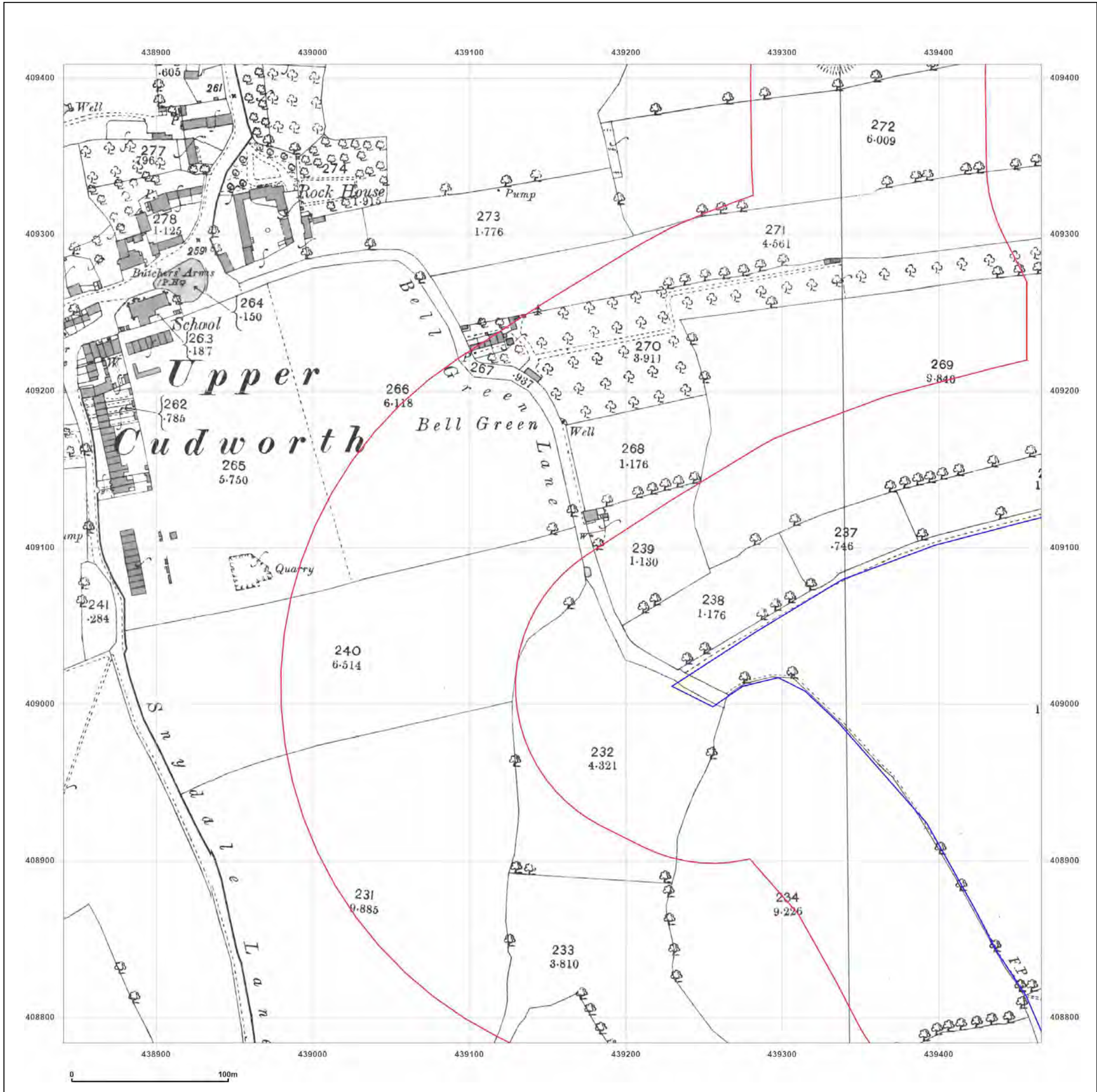


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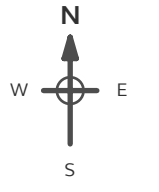
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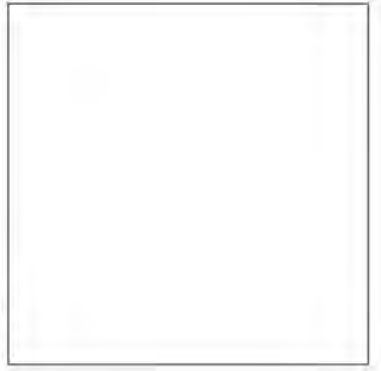


Site Details:
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Client Ref: D10837
Report Ref: GS-9190126_LS_1_2
Grid Ref: 439153, 409096

Map Name: County Series
Map date: 1906
Scale: 1:2,500
Printed at: 1:2,500





Surveyed 1890
 Revised 1904
 Edition N/A
 Copyright N/A
 Levelled N/A

Powered by

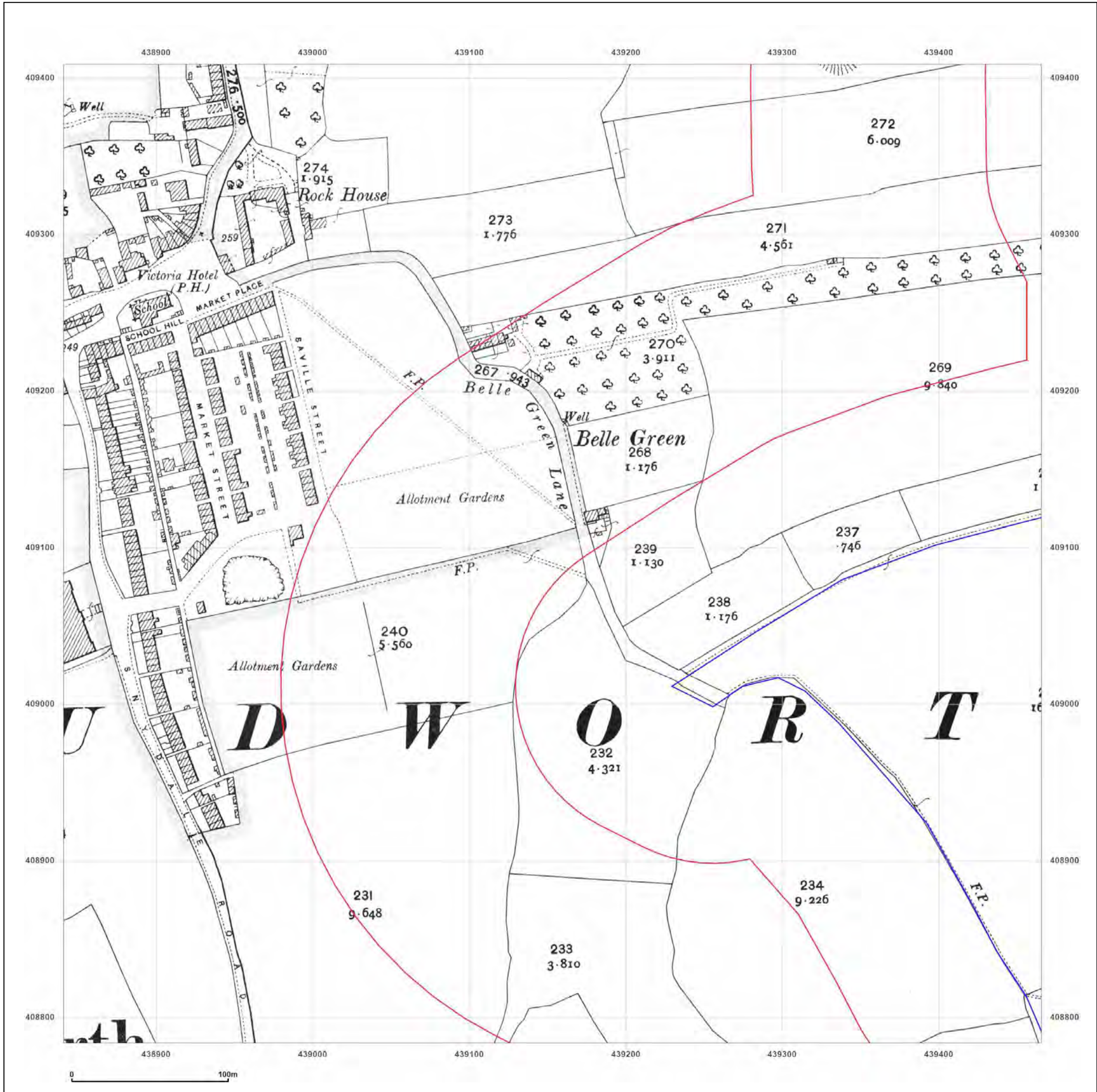


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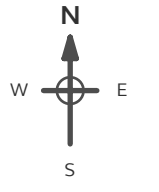
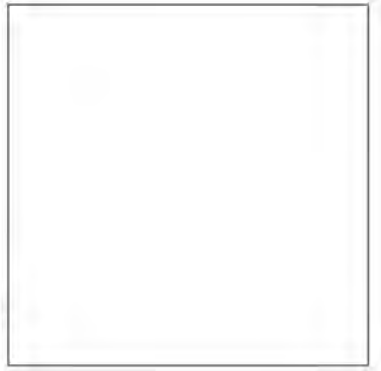
Map legend available at:
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Site Details:
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Client Ref: D10837
Report Ref: GS-9190126_LS_1_2
Grid Ref: 439153, 409096

Map Name: County Series
Map date: 1931
Scale: 1:2,500
Printed at: 1:2,500

Surveyed 1890
 Revised 1930
 Edition 1931
 Copyright N/A
 Levelled 1930

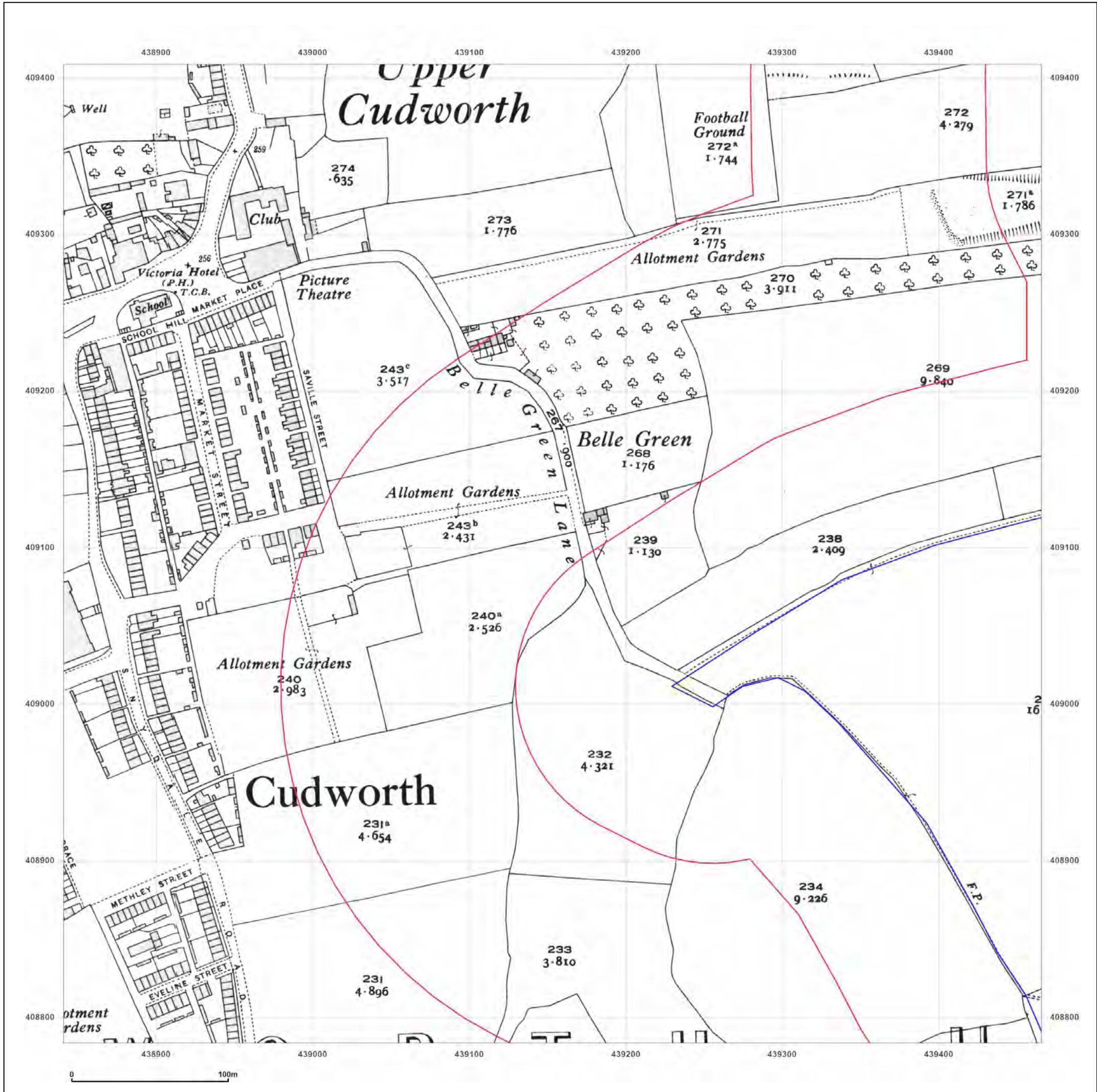
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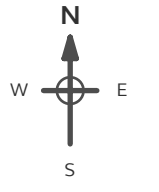
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Client Ref: D10837
Report Ref: GS-9190126_LS_1_2
Grid Ref: 439153, 409096

Map Name: National Grid
Map date: 1962
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1961
 Revised 1961
 Edition N/A
 Copyright 1962
 Levelled 1959

Surveyed 1961
 Revised 1961
 Edition N/A
 Copyright 1962
 Levelled 1959

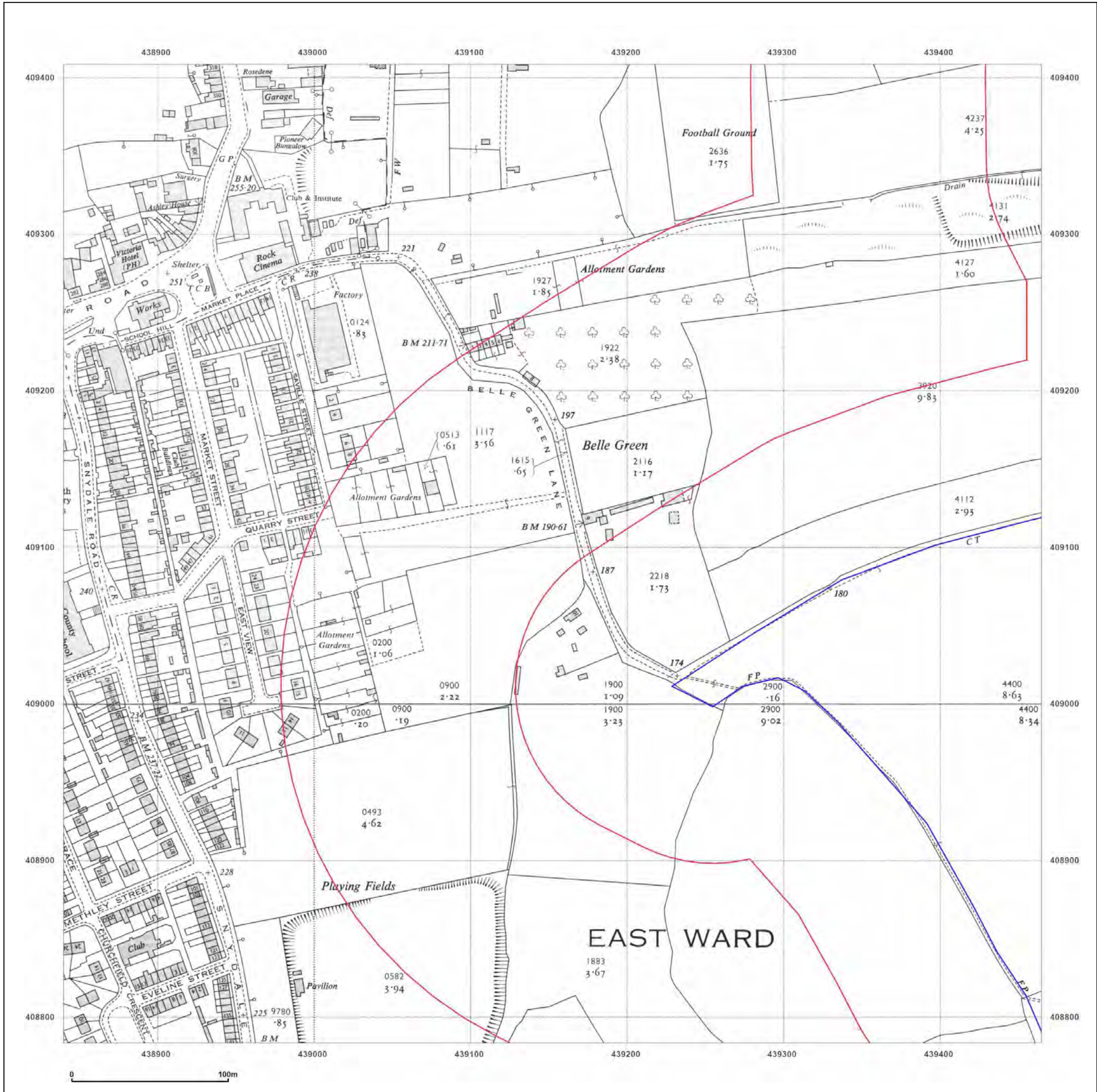
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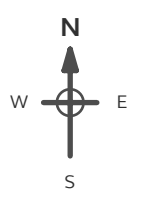


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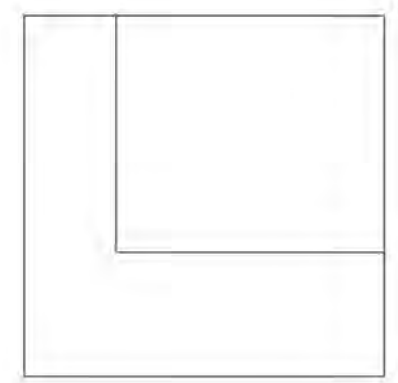
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Client Ref: D10837
 Report Ref: GS-9190126_LS_1_2
 Grid Ref: 439153, 409096

Map Name: National Grid
 Map date: 1962
 Scale: 1:2,500
 Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



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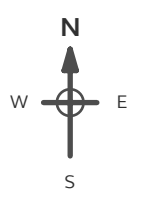


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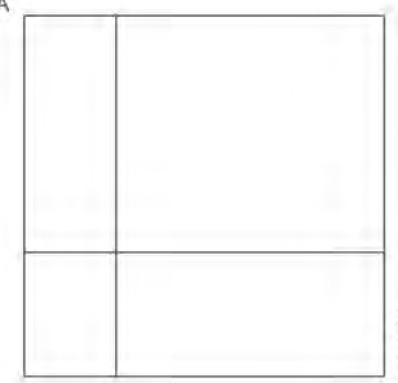
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Client Ref: D10837
Report Ref: GS-9190126_LS_1_2
Grid Ref: 439153, 409096

Map Name: National Grid
Map date: 1970-1975
Scale: 1:2,500
Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

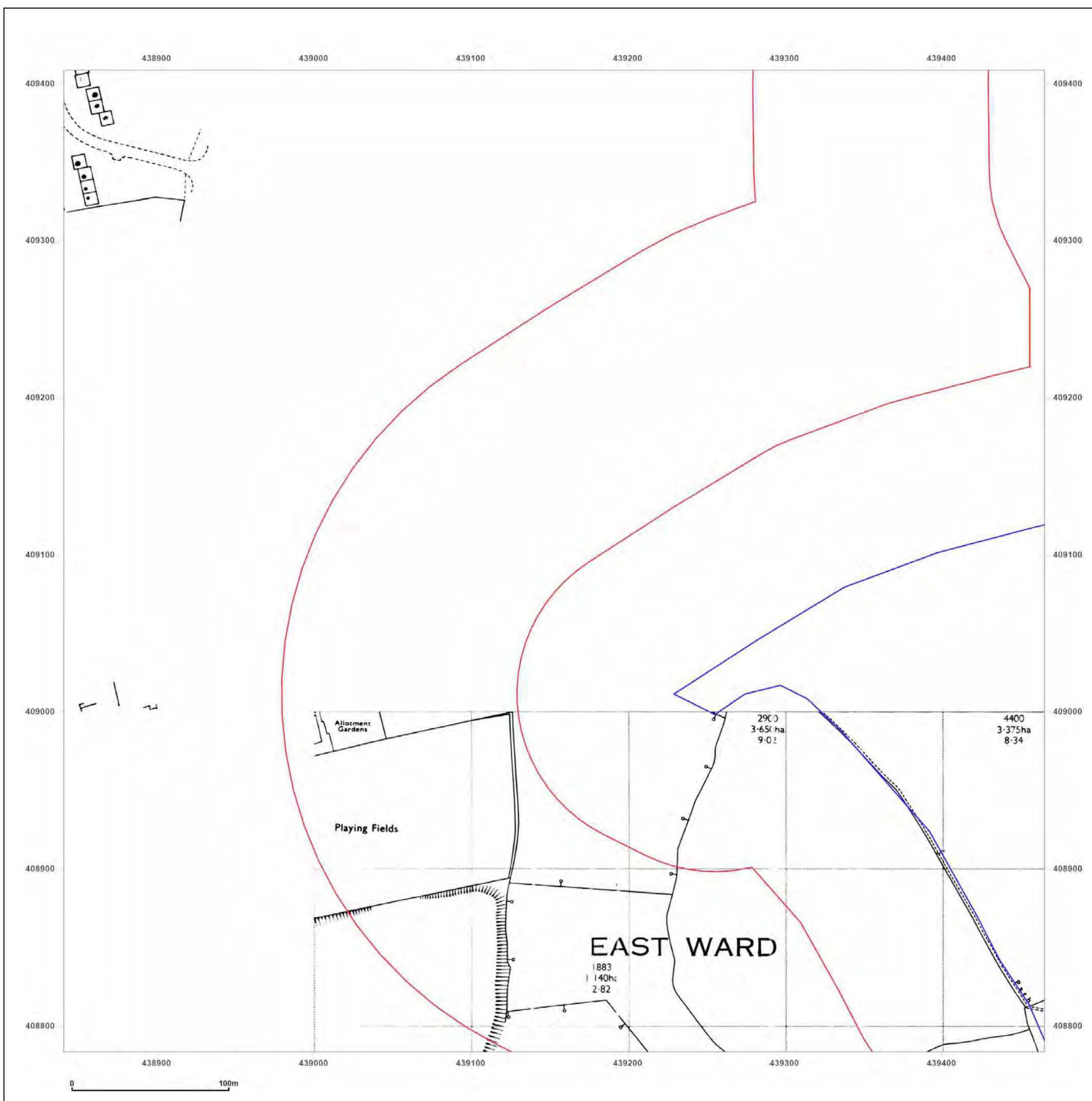


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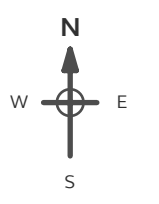
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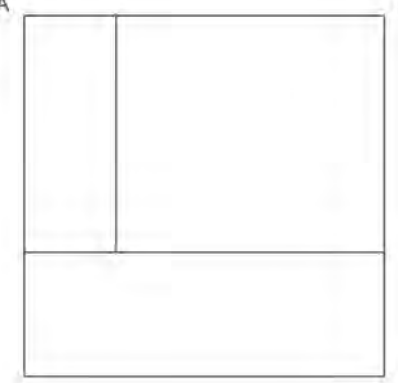
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Client Ref: D10837
Report Ref: GS-9190126_LS_1_2
Grid Ref: 439153, 409096

Map Name: National Grid
Map date: 1976-1979
Scale: 1:2,500
Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1976
 Levelled N/A



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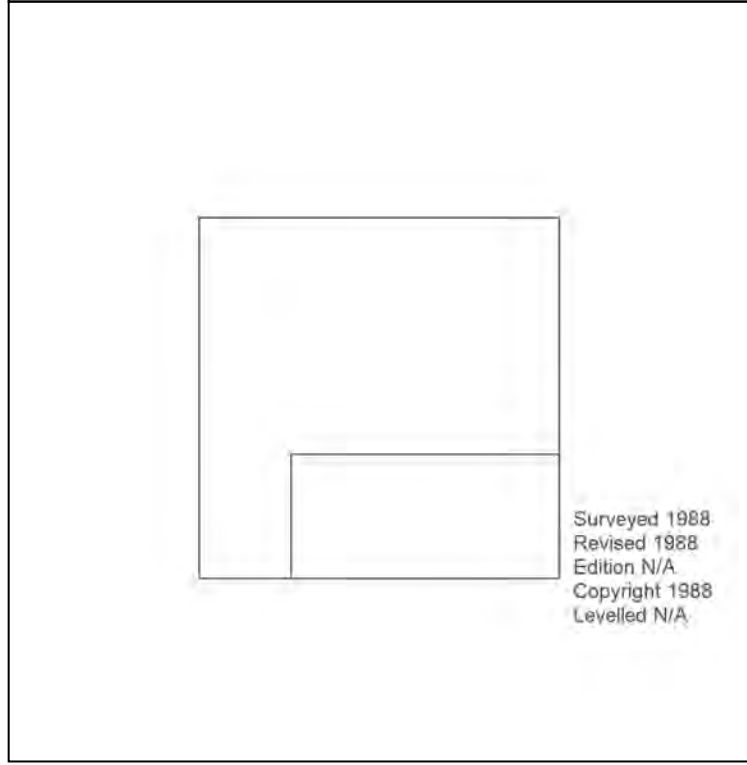
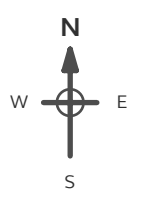
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Client Ref: D10837
Report Ref: GS-9190126_LS_1_2
Grid Ref: 439153, 409096

Map Name: National Grid
Map date: 1988
Scale: 1:2,500
Printed at: 1:2,500

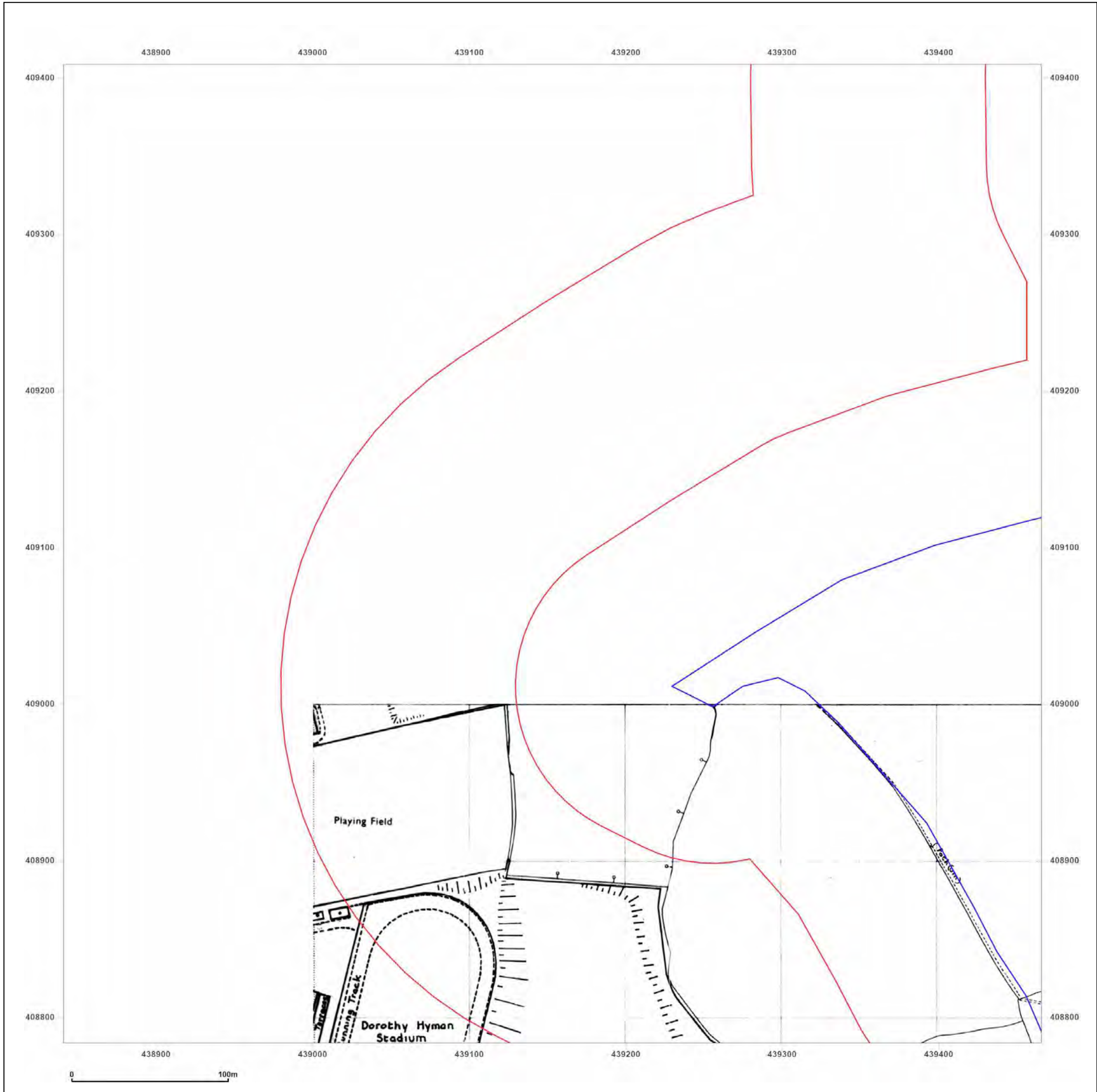


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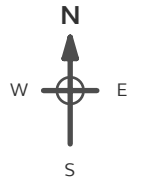
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Report Ref: GS-9190126_LS_1_3
Grid Ref: 439153, 409721

Map Name: County Series

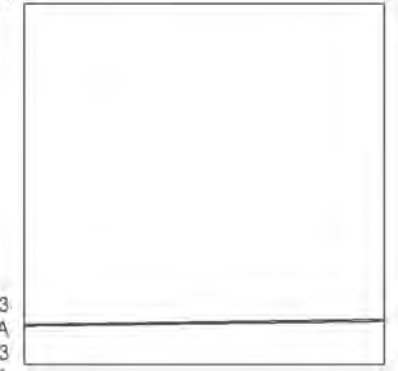
Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
 Revised N/A
 Edition 1893
 Copyright N/A
 Levelled N/A



Surveyed 1893
 Revised N/A
 Edition 1893
 Copyright N/A
 Levelled N/A

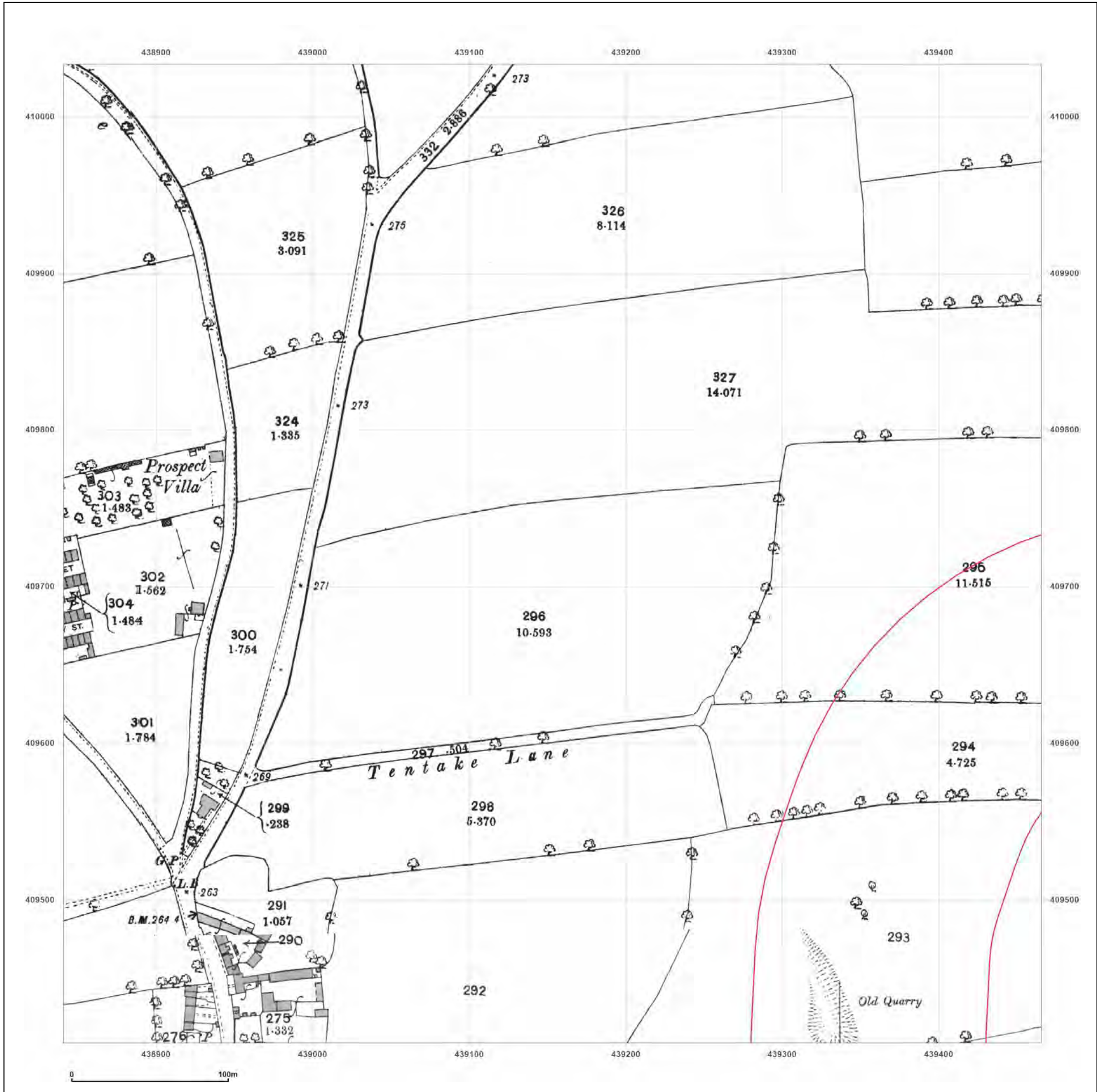


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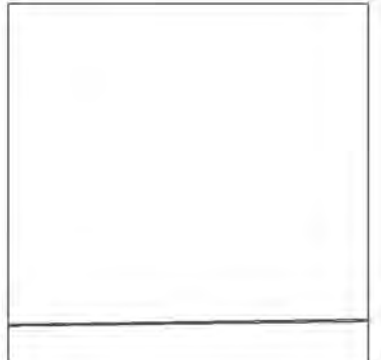
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Client Ref: D10837
Report Ref: GS-9190126_LS_1_3
Grid Ref: 439153, 409721

Map Name: County Series
Map date: 1906
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1890
 Revised 1904
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1890
 Revised 1904
 Edition N/A
 Copyright N/A
 Levelled N/A

Powered by

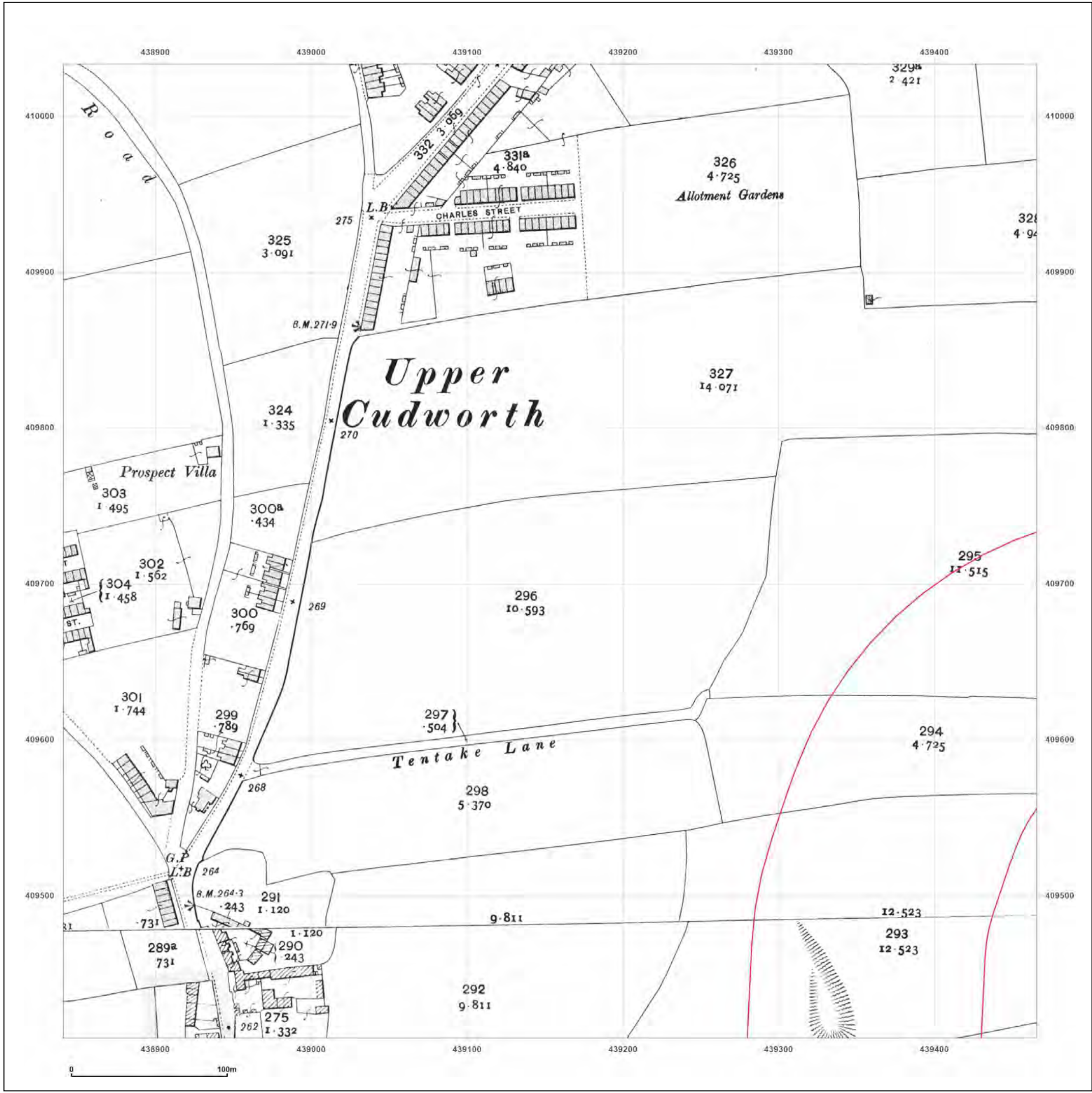


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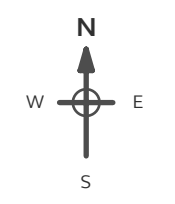
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 Report Ref: GS-9190126_LS_1_3
 Grid Ref: 439153, 409721

Map Name: County Series

Map date: 1918

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1891
 Revised 1914
 Edition 1918
 Copyright N/A
 Levelled 1915

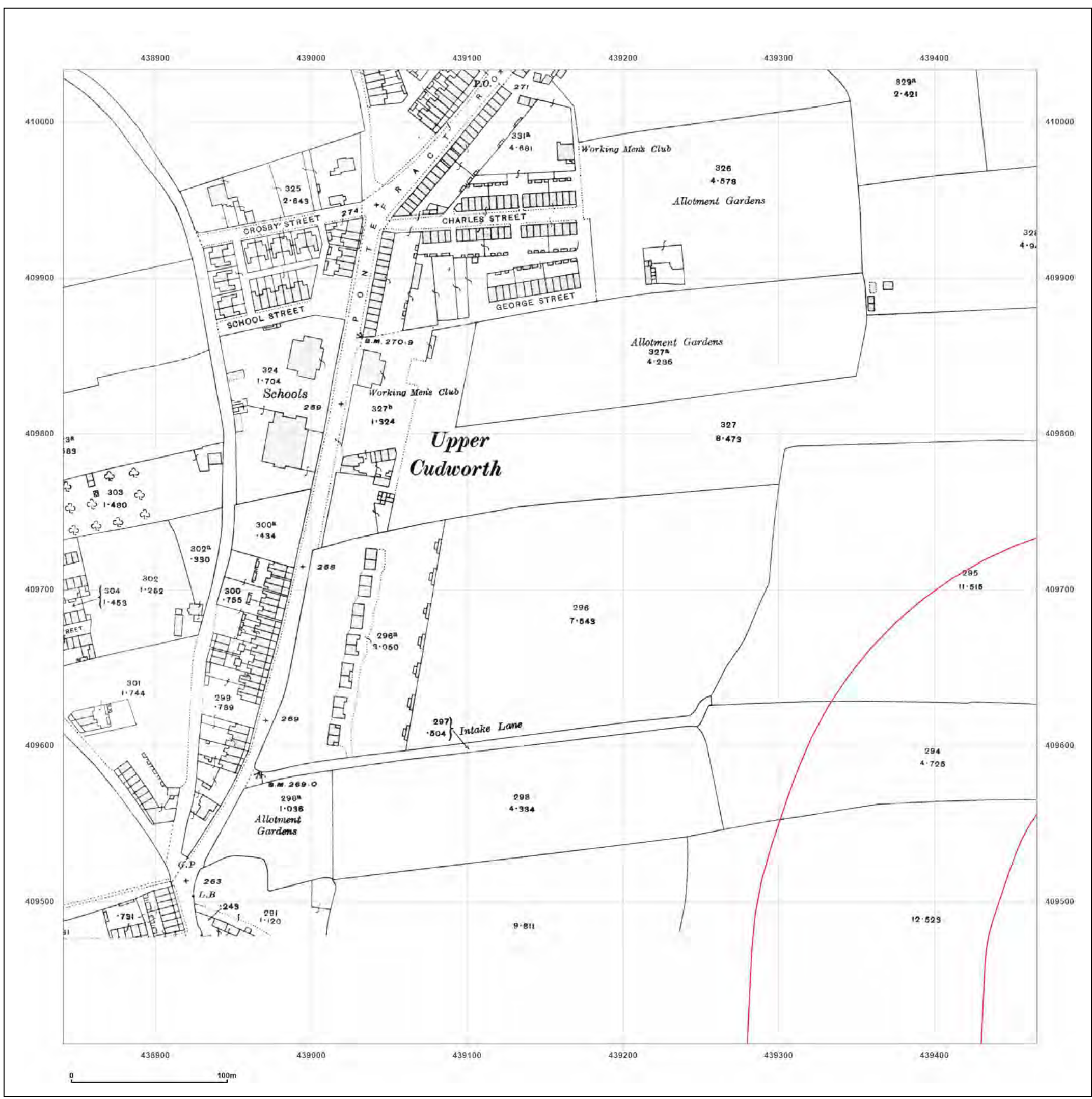


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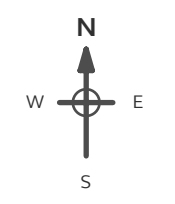
Client Ref: D10837
 Report Ref: GS-9190126_LS_1_3
 Grid Ref: 439153, 409721

Map Name: National Grid

Map date: 1962

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1961
 Revised 1961
 Edition N/A
 Copyright 1962
 Levelled 1959

Surveyed 1961
 Revised 1961
 Edition N/A
 Copyright 1962
 Levelled 1959

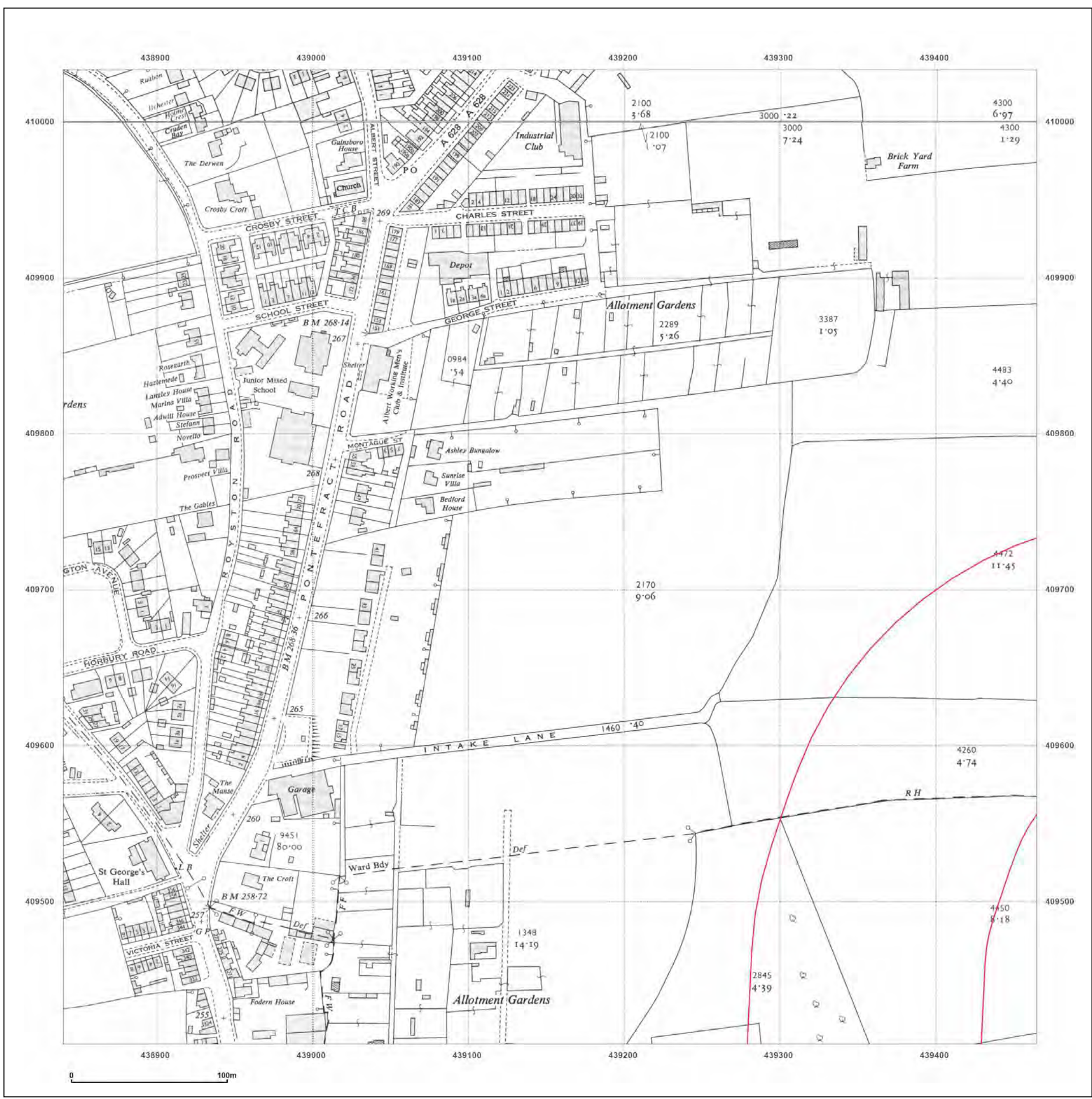


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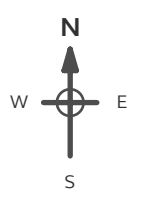


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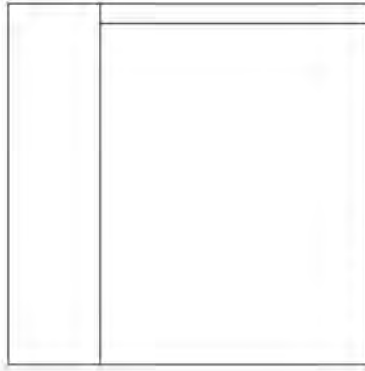
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Client Ref: D10837
 Report Ref: GS-9190126_LS_1_3
 Grid Ref: 439153, 409721

Map Name: National Grid
 Map date: 1962
 Scale: 1:2,500
 Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



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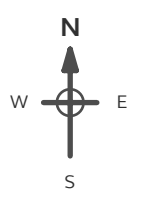


Site Details:

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Client Ref: D10837
Report Ref: GS-9190126_LS_1_3
Grid Ref: 439153, 409721

Map Name: National Grid
Map date: 1976
Scale: 1:2,500
Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1976
 Levelled N/A

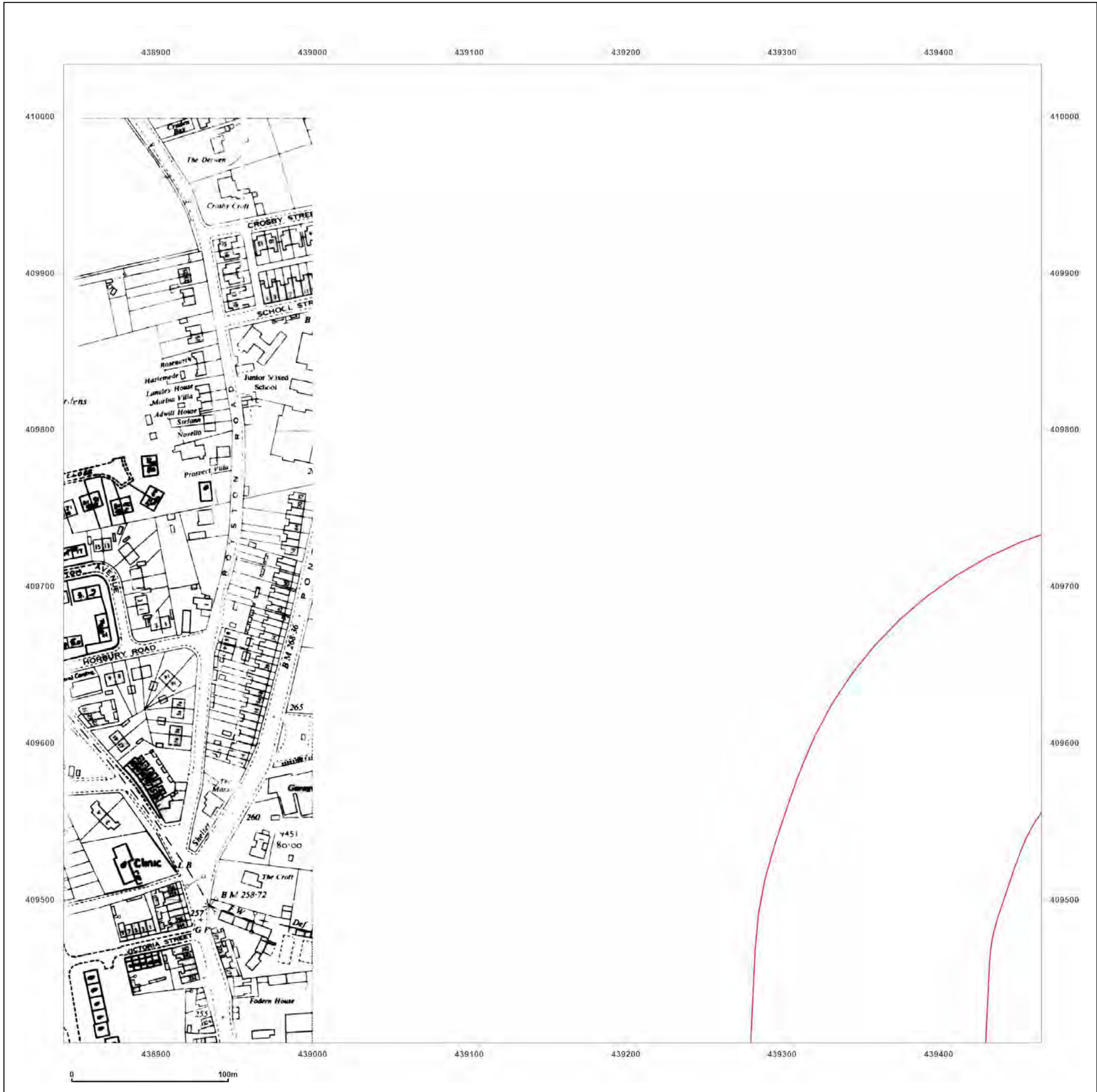


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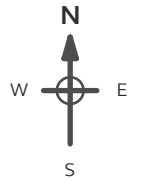


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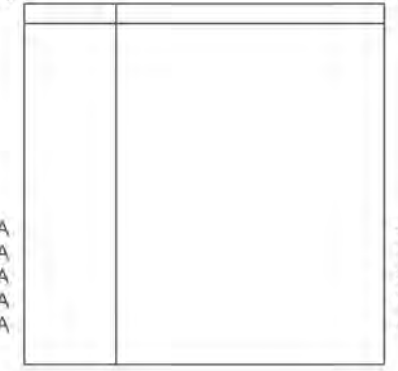
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Client Ref: D10837
 Report Ref: GS-9190126_LS_1_3
 Grid Ref: 439153, 409721

Map Name: National Grid
 Map date: 1975-1979
 Scale: 1:2,500
 Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



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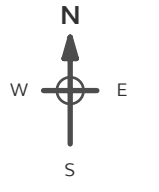
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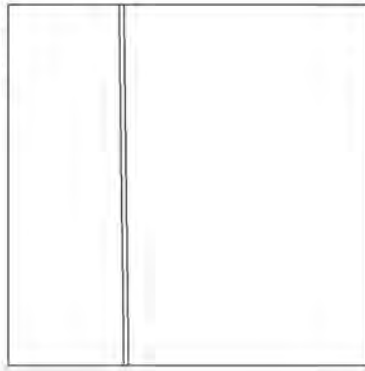


Site Details:
 STREET RECORD, FERRYMOOR WAY, GRIMETHORPE, BARNSELY, S72 7BN

Client Ref: D10837
Report Ref: GS-9190126_LS_2_1
Grid Ref: 439778, 408471

Map Name: County Series
Map date: 1893
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1893 Revised N/A Edition 1893 Copyright N/A Levelled N/A		Surveyed 1893 Revised N/A Edition 1893 Copyright N/A Levelled N/A
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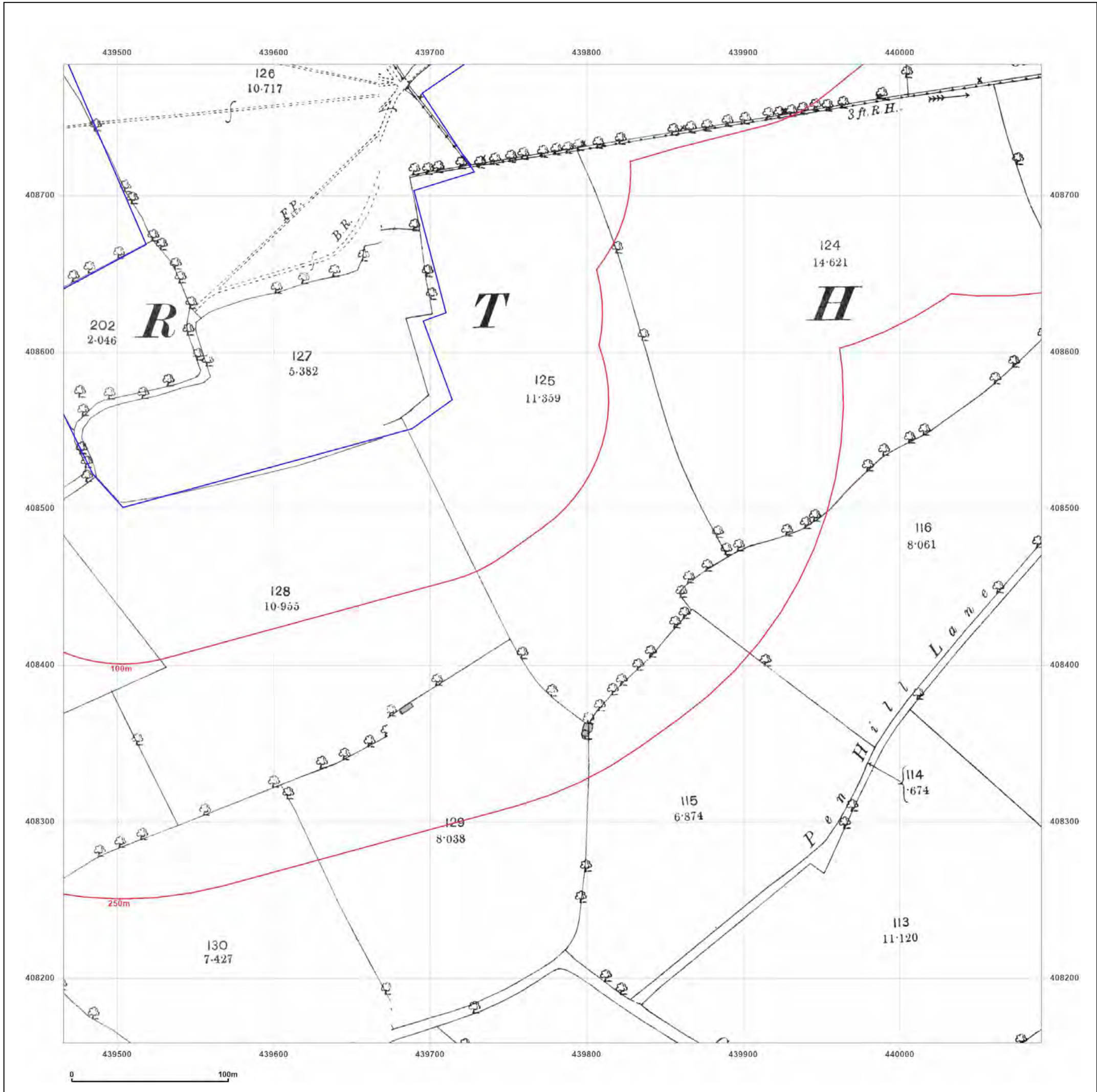
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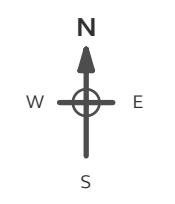
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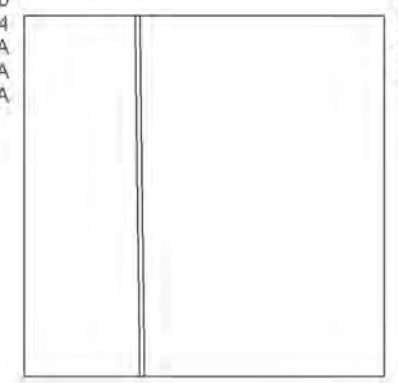
Map date: 1906

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1890
 Revised 1904
 Edition N/A
 Copyright N/A
 Levelled N/A

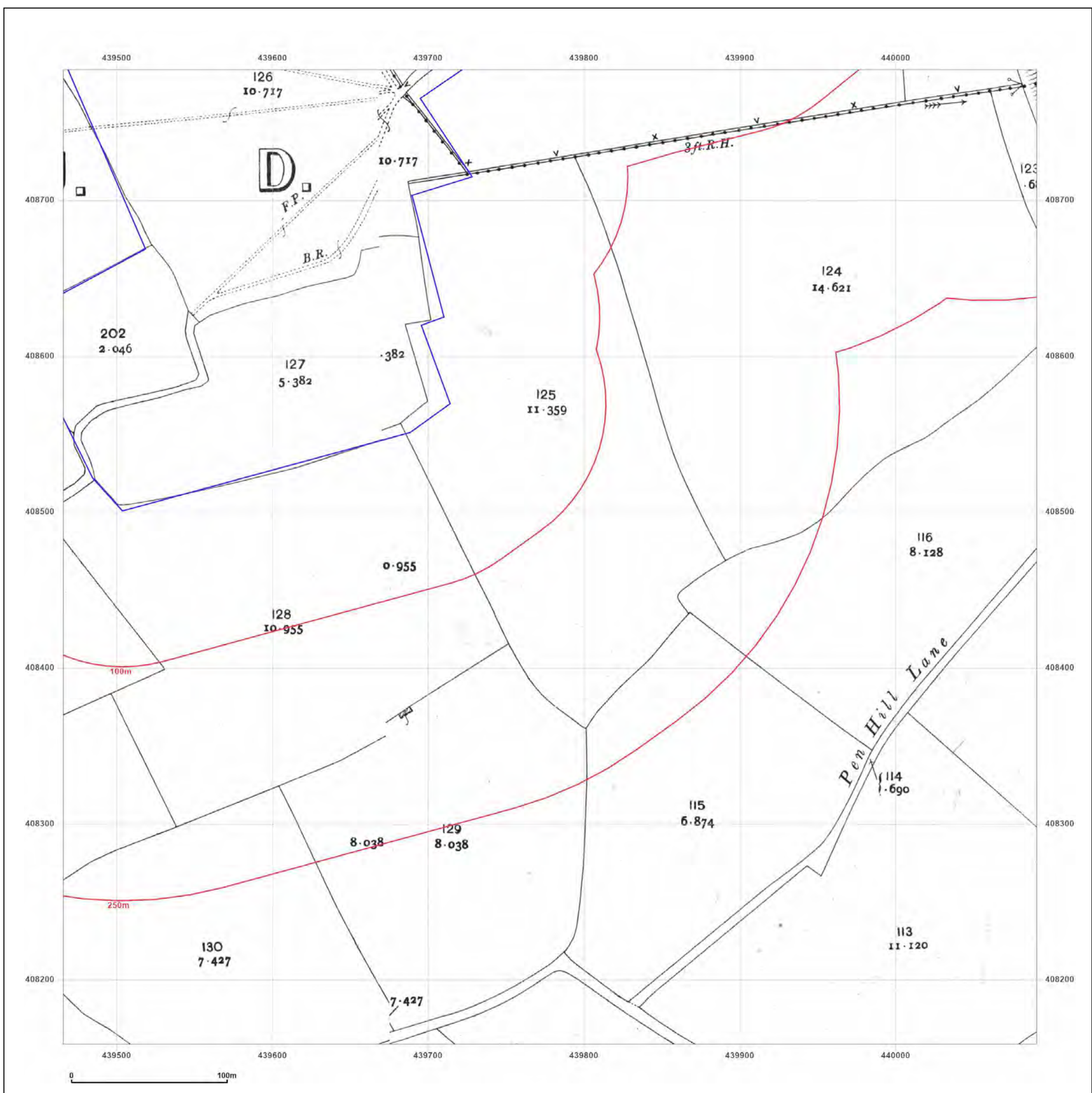


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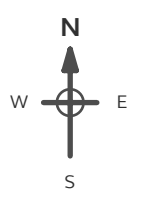
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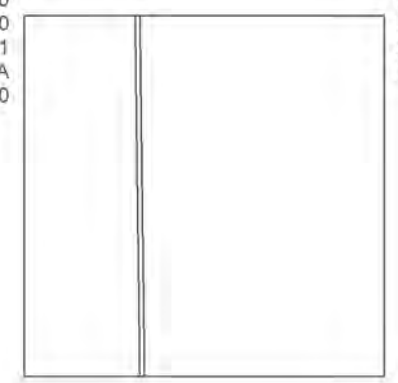
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Client Ref: D10837
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Grid Ref: 439778, 408471

Map Name: County Series
Map date: 1931
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1890
 Revised 1930
 Edition 1931
 Copyright N/A
 Levelled 1930

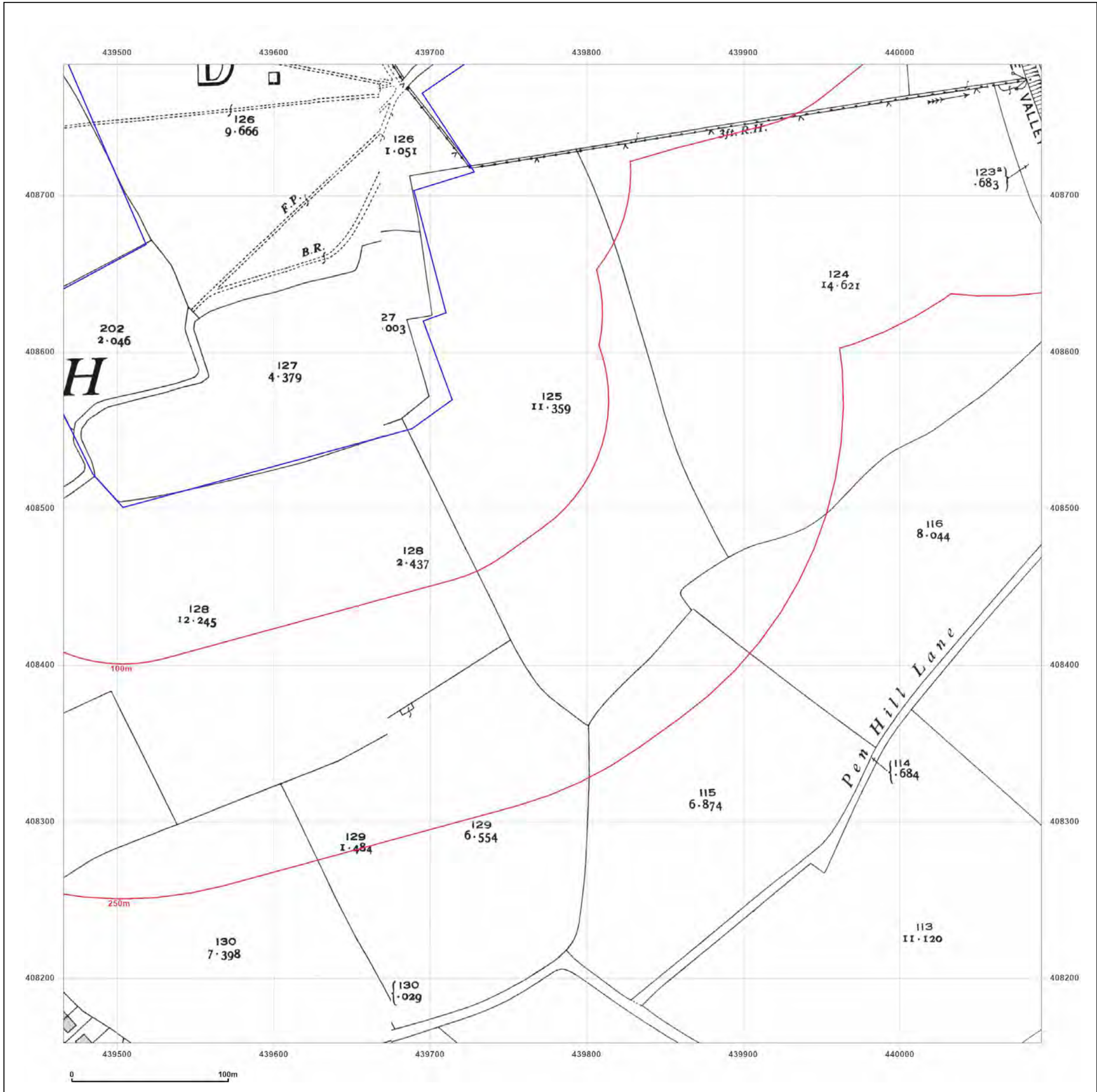


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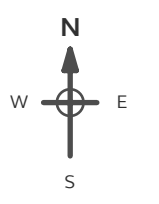


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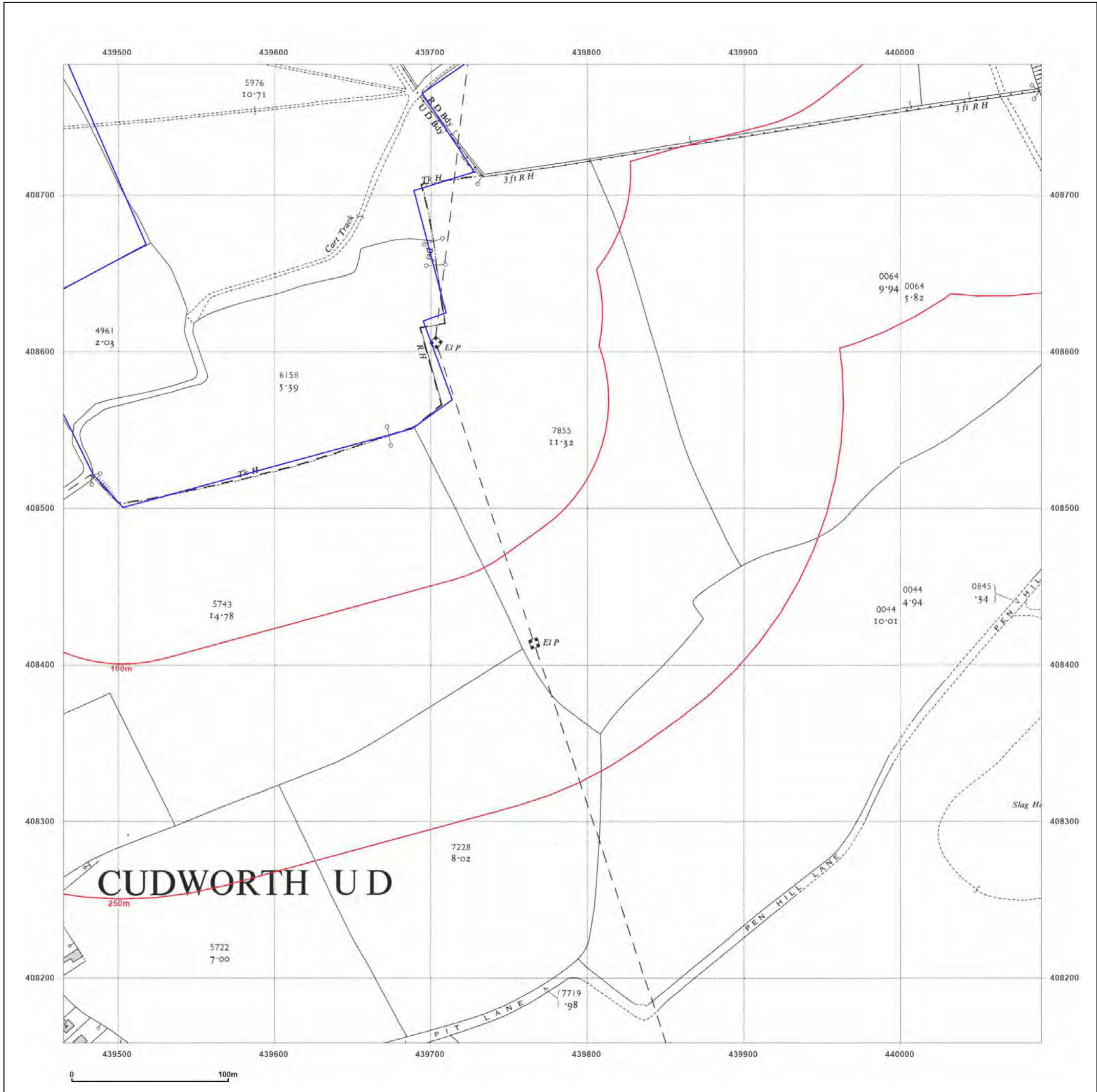
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Client Ref: D10837
Report Ref: GS-9190126_LS_2_1
Grid Ref: 439778, 408471

Map Name: National Grid
Map date: 1962
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1959	Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1959
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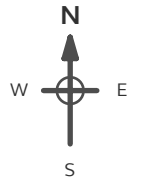
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Client Ref: D10837
Report Ref: GS-9190126_LS_2_1
Grid Ref: 439778, 408471

Map Name: National Grid
Map date: 1970-1973
Scale: 1:2,500
Printed at: 1:2,500



Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed 1972 Revised 1972 Edition N/A Copyright 1973 Levelled 1964
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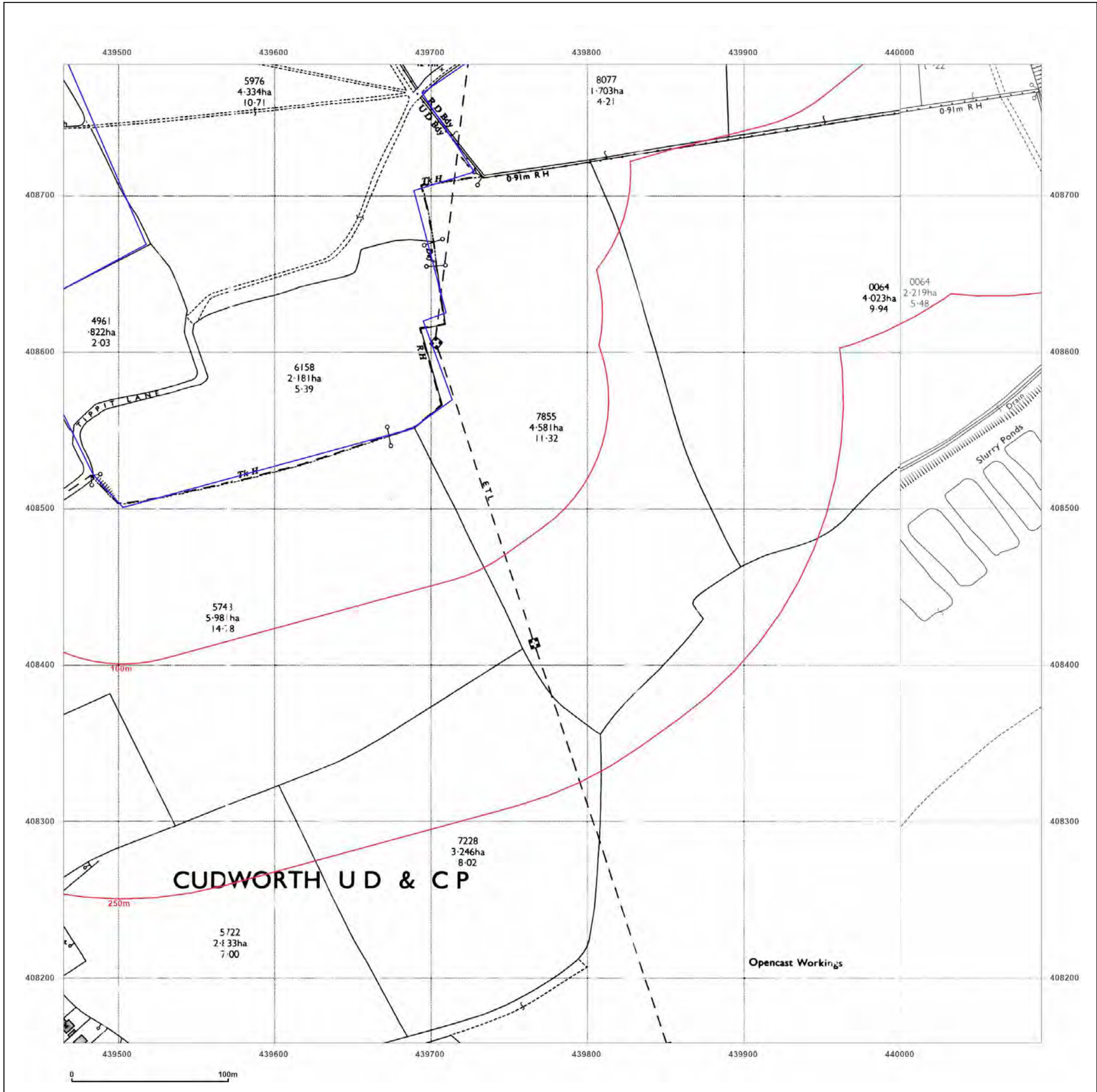


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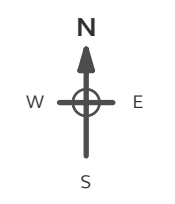
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Grid Ref: 439778, 408471

Map Name: National Grid

Map date: 1984-1988

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1988
 Revised 1988
 Edition N/A
 Copyright 1988
 Levelled N/A

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1984
 Levelled 1964

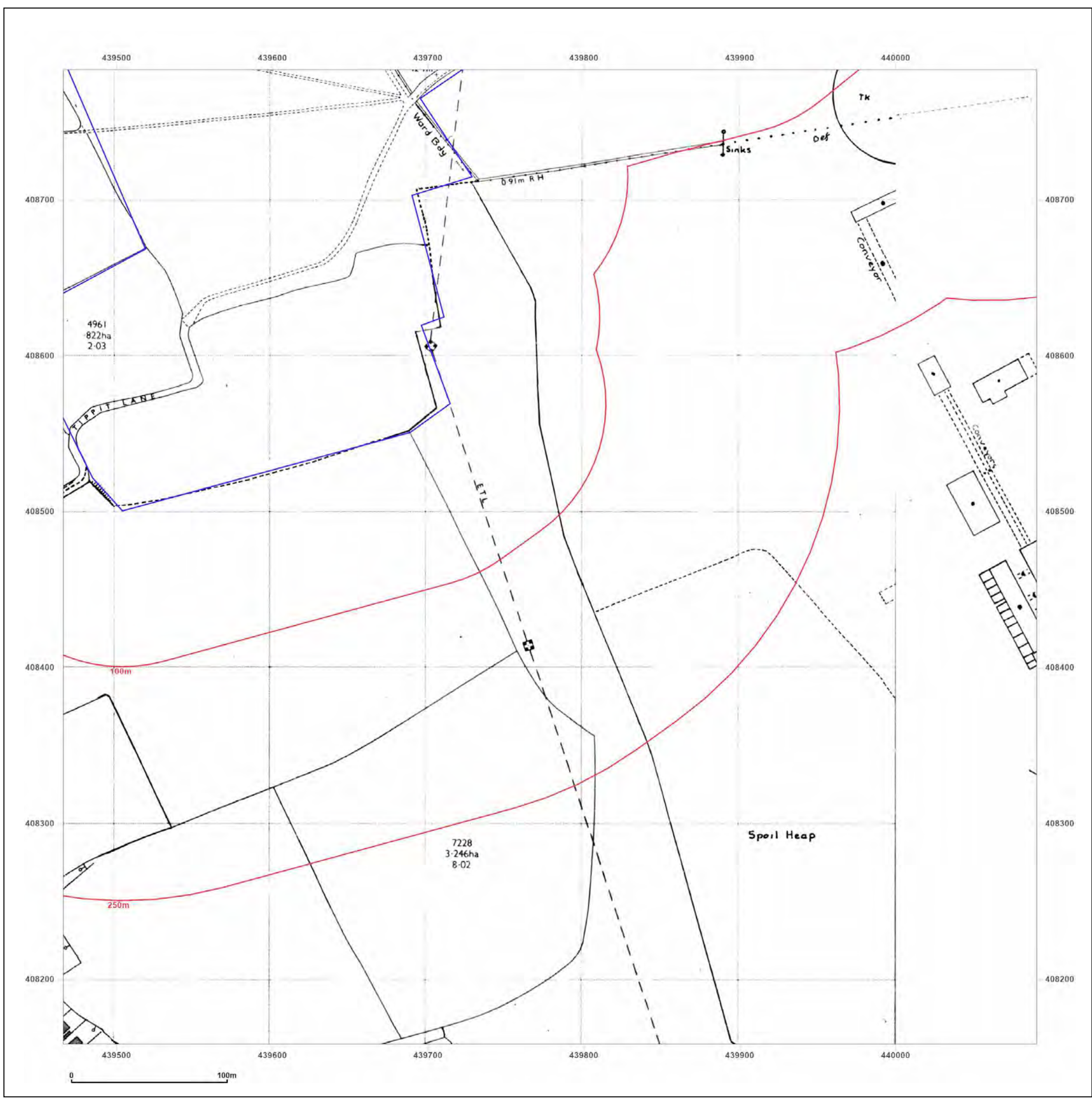


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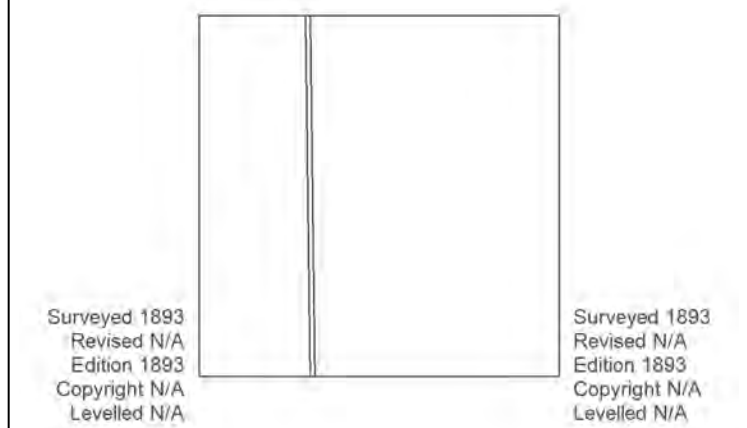
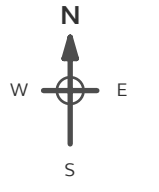


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Client Ref: D10837
 Report Ref: GS-9190126_LS_2_2
 Grid Ref: 439778, 409096

Map Name: County Series
 Map date: 1893
 Scale: 1:2,500
 Printed at: 1:2,500

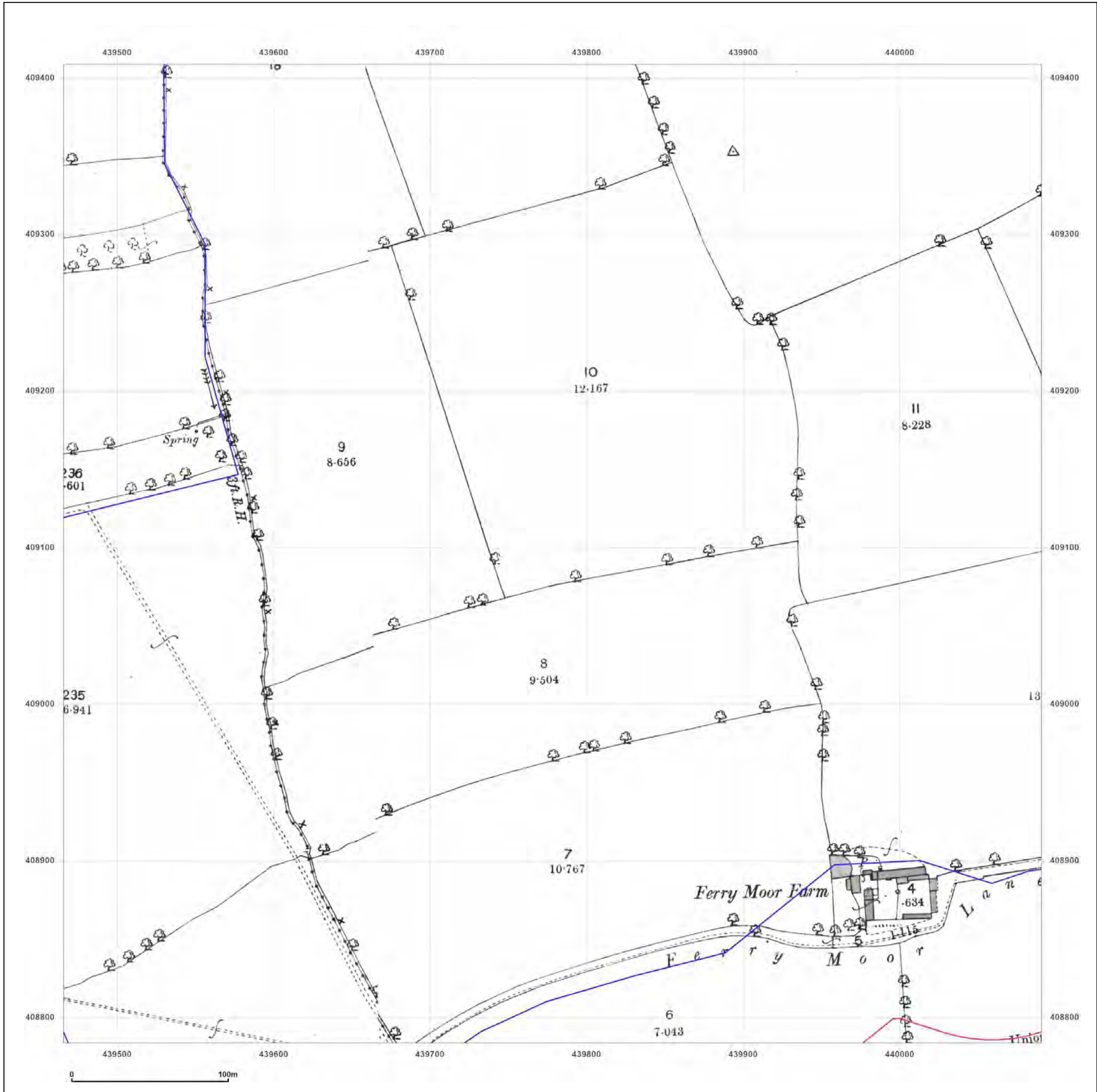



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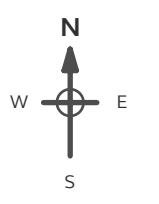
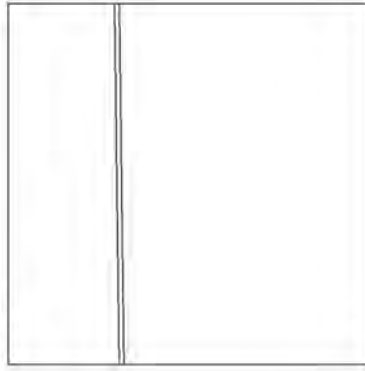


Site Details:

STREET RECORD, FERRYMOOR WAY, GRIMETHORPE, BARNSELY, S72 7BN

Client Ref: D10837
Report Ref: GS-9190126_LS_2_2
Grid Ref: 439778, 409096

Map Name: County Series
Map date: 1906
Scale: 1:2,500
Printed at: 1:2,500

Surveyed 1890
 Revised 1904
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1890
 Revised 1904
 Edition N/A
 Copyright N/A
 Levelled N/A

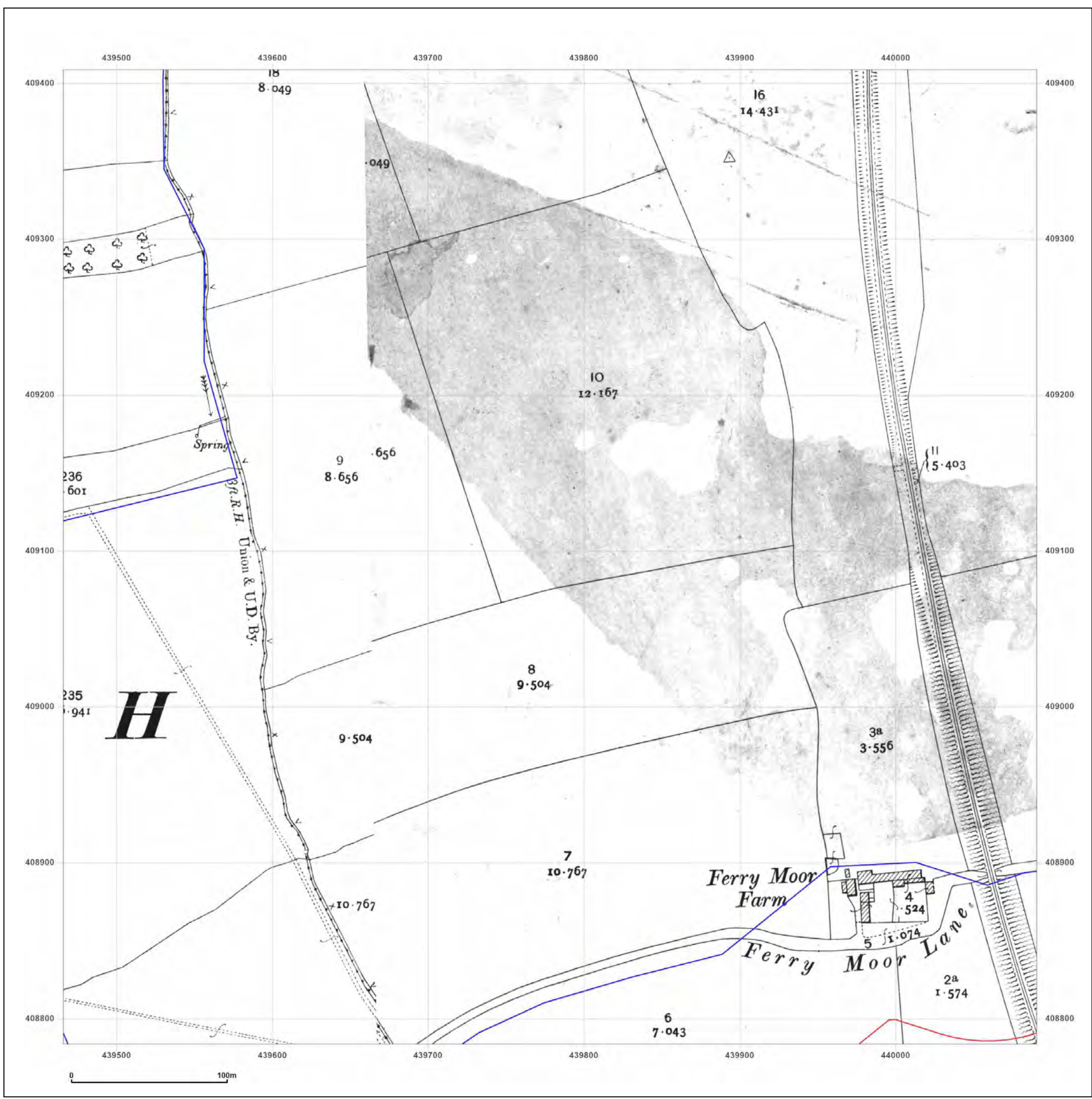


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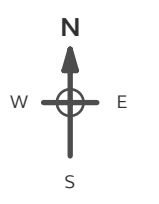
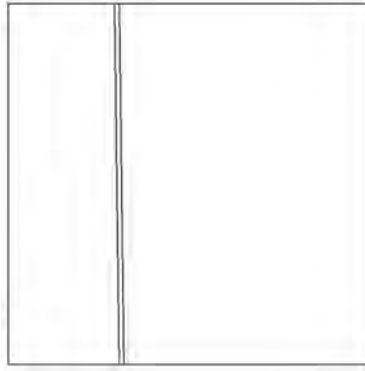


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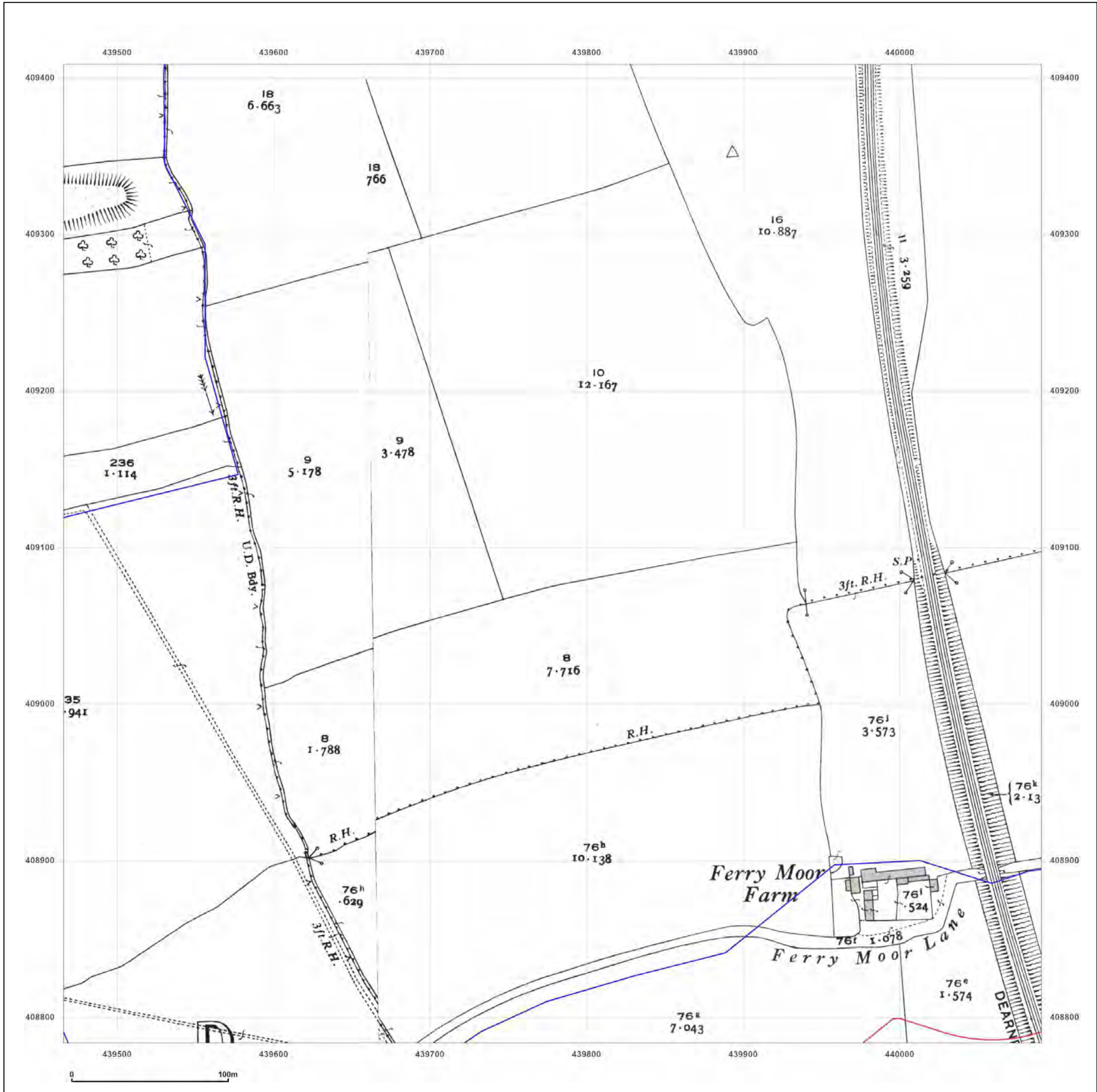
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 Grid Ref: 439778, 409096

Map Name: County Series
 Map date: 1931
 Scale: 1:2,500
 Printed at: 1:2,500

Surveyed 1890
 Revised 1930
 Edition 1931
 Copyright N/A
 Levelled 1930

Surveyed 1890
 Revised 1930
 Edition 1931
 Copyright N/A
 Levelled 1930



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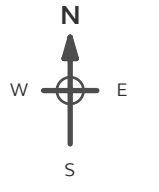
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Client Ref: D10837
Report Ref: GS-9190126_LS_2_2
Grid Ref: 439778, 409096

Map Name: National Grid
Map date: 1962
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1961
 Revised 1961
 Edition N/A
 Copyright 1962
 Levelled 1959

Surveyed 1961
 Revised 1961
 Edition N/A
 Copyright 1962
 Levelled 1959

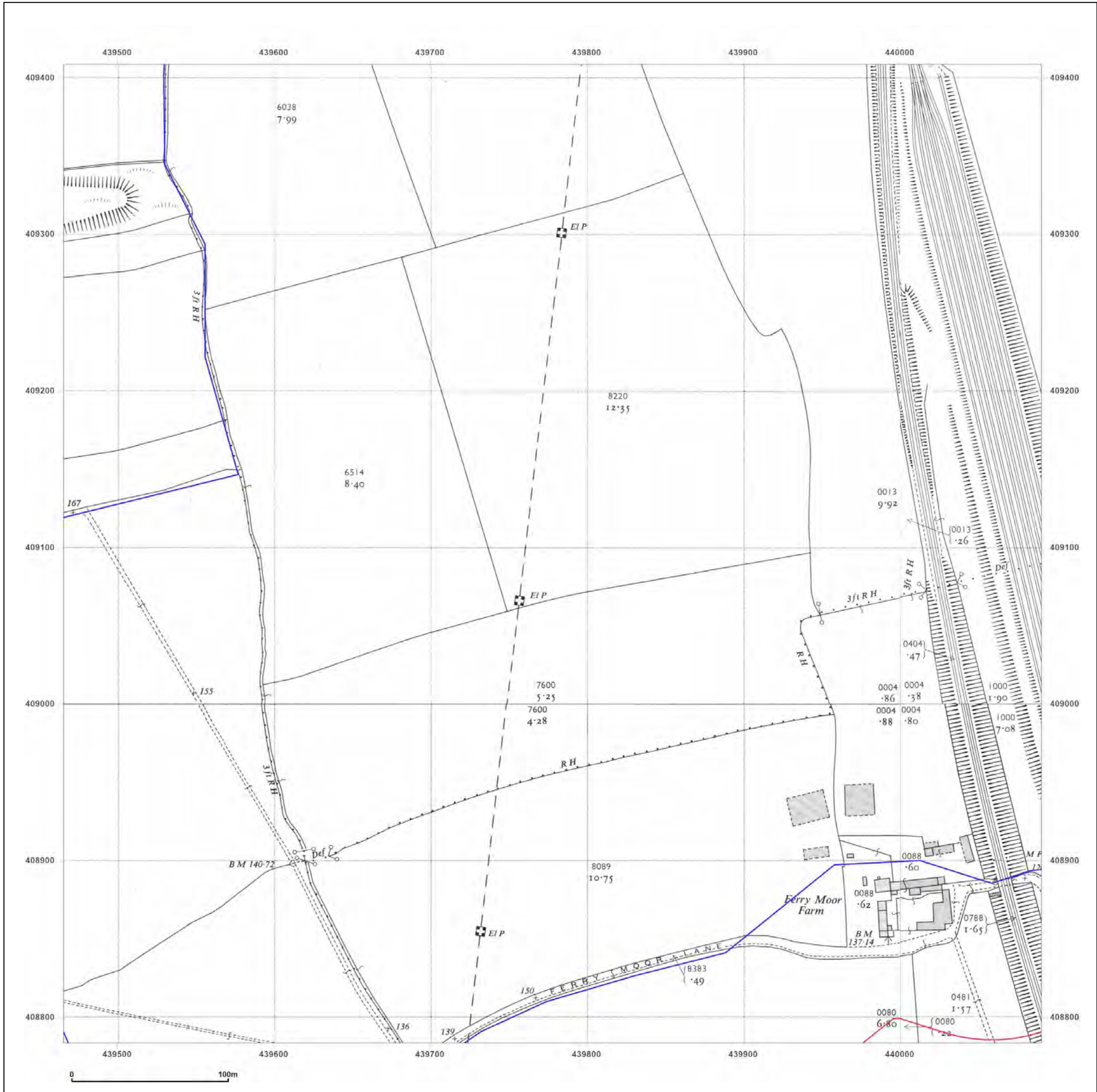


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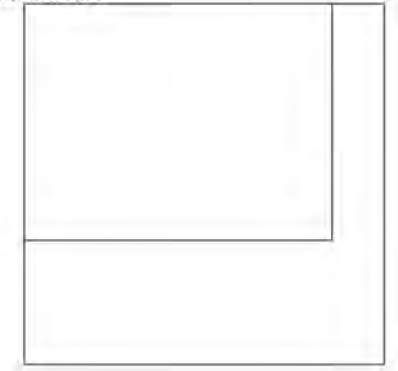
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Client Ref: D10837
 Report Ref: GS-9190126_LS_2_2
 Grid Ref: 439778, 409096

Map Name: National Grid
 Map date: 1962
 Scale: 1:2,500
 Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

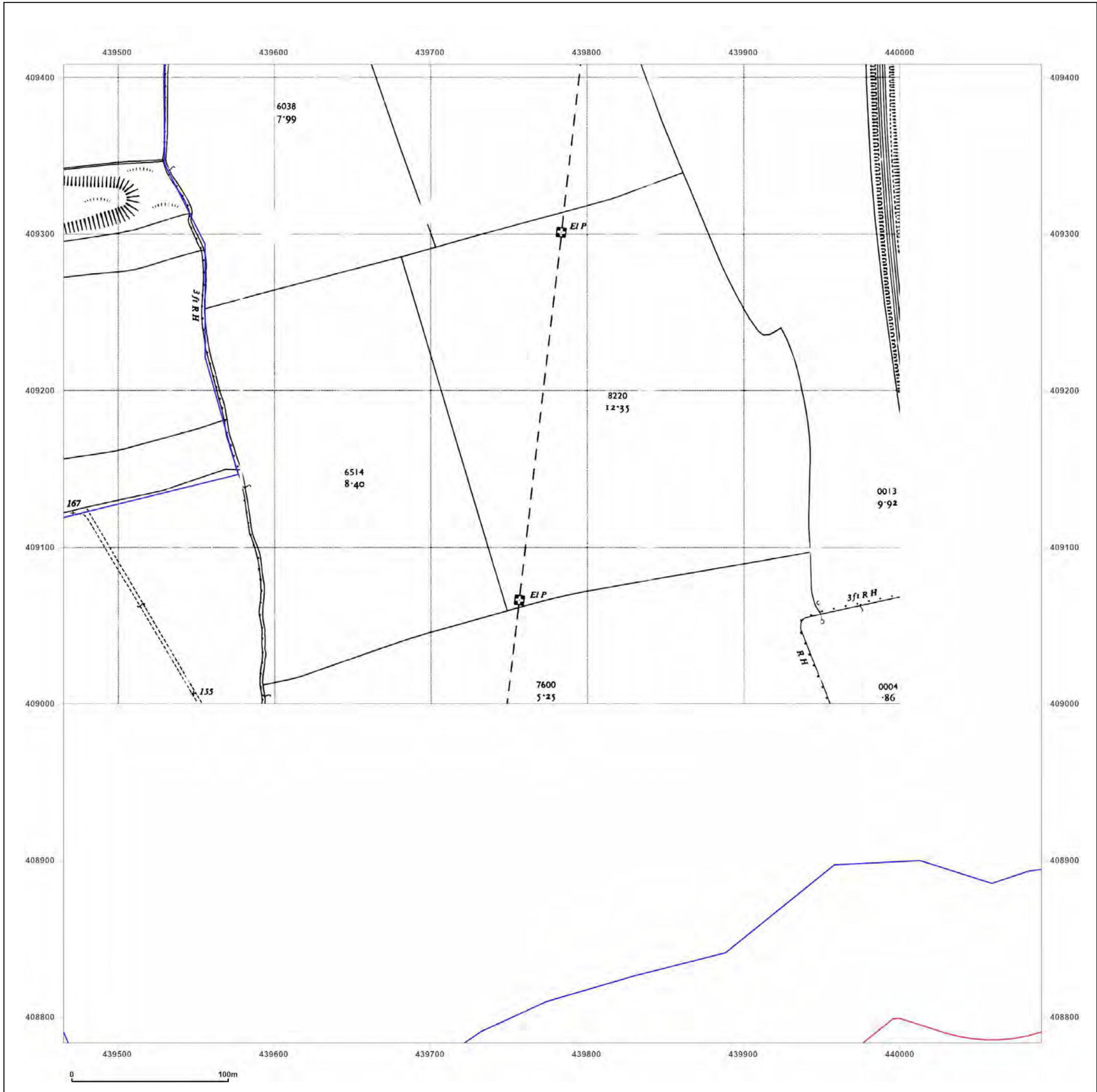


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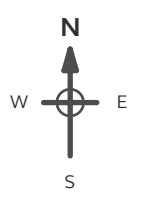


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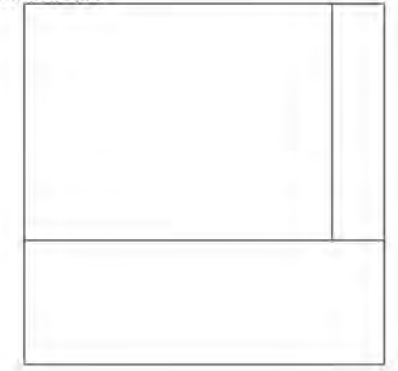
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 Grid Ref: 439778, 409096

Map Name: National Grid
 Map date: 1978-1979
 Scale: 1:2,500
 Printed at: 1:2,500



Surveyed 1979
 Revised 1979
 Edition N/A
 Copyright 1979
 Levelled N/A



Surveyed 1978
 Revised 1978
 Edition N/A
 Copyright 1978
 Levelled N/A

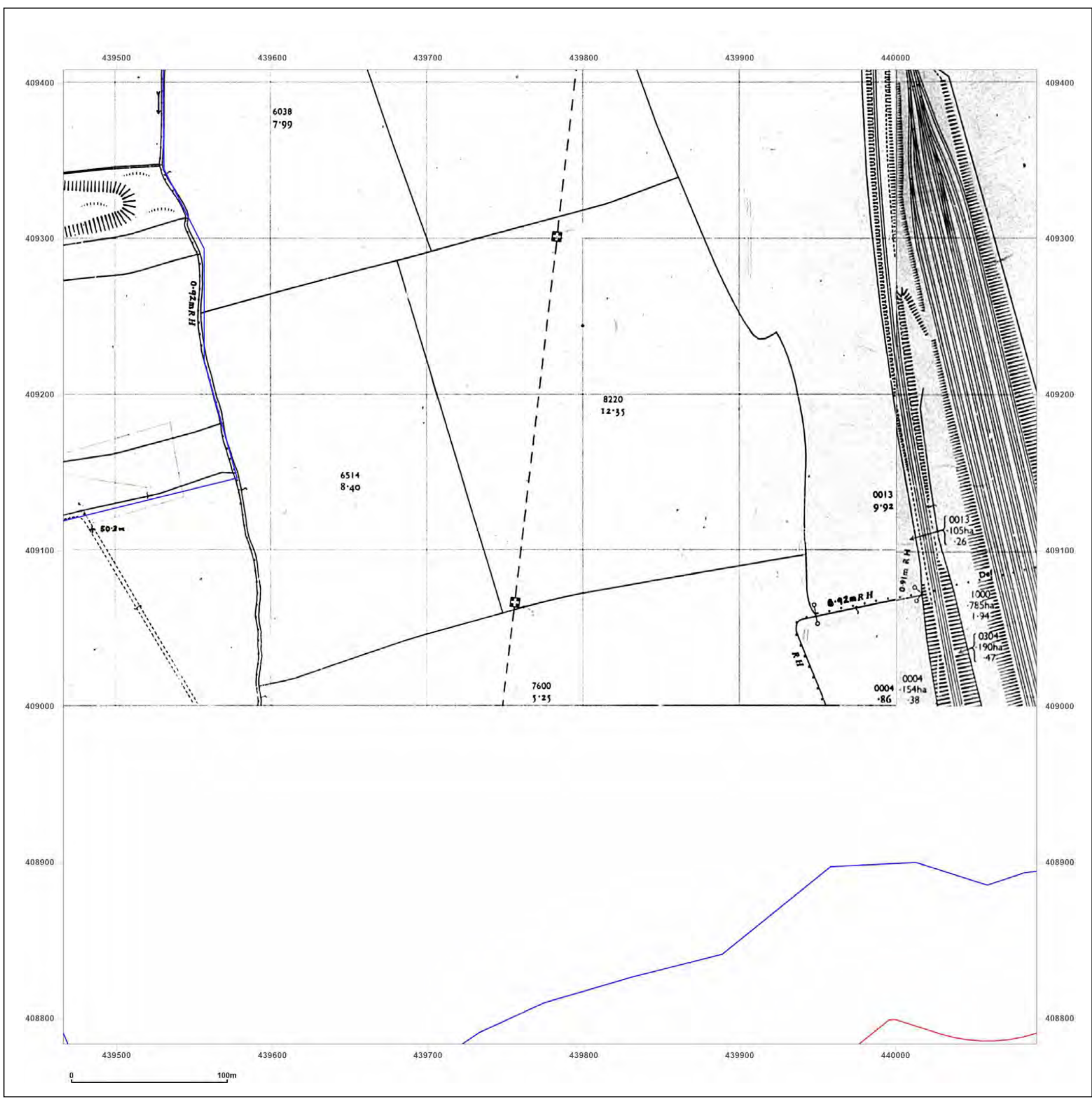


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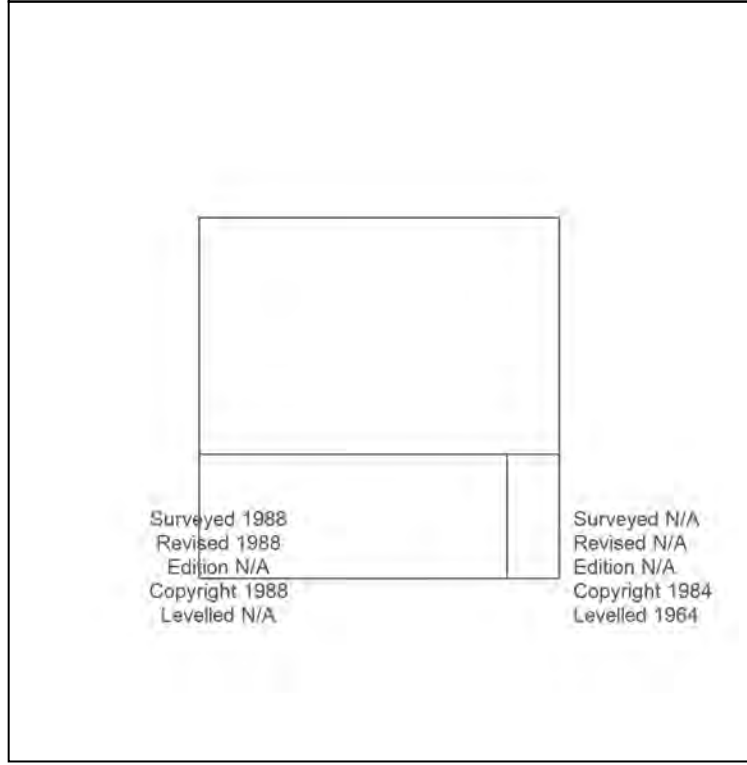
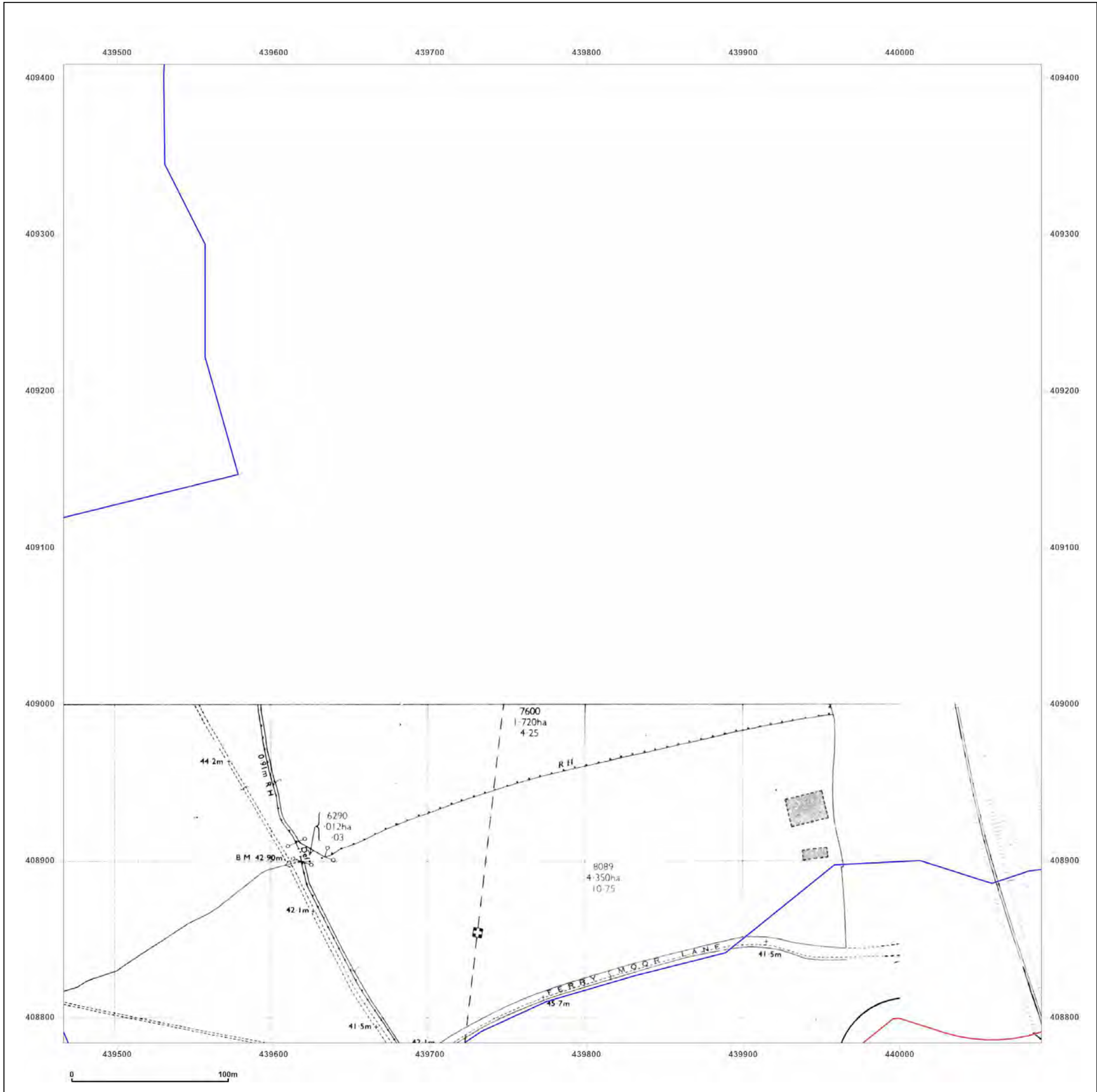
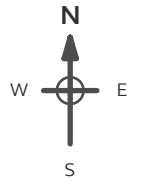
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Client Ref: D10837
Report Ref: GS-9190126_LS_2_2
Grid Ref: 439778, 409096

Map Name: National Grid
Map date: 1984-1988
Scale: 1:2,500
Printed at: 1:2,500



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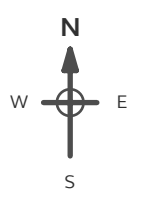
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Client Ref: D10837
Report Ref: GS-9190126_LS_2_3
Grid Ref: 439778, 409721

Map Name: County Series
Map date: 1893
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1893 Revised N/A Edition 1893 Copyright N/A Levelled N/A	Surveyed 1893 Revised N/A Edition 1893 Copyright N/A Levelled N/A
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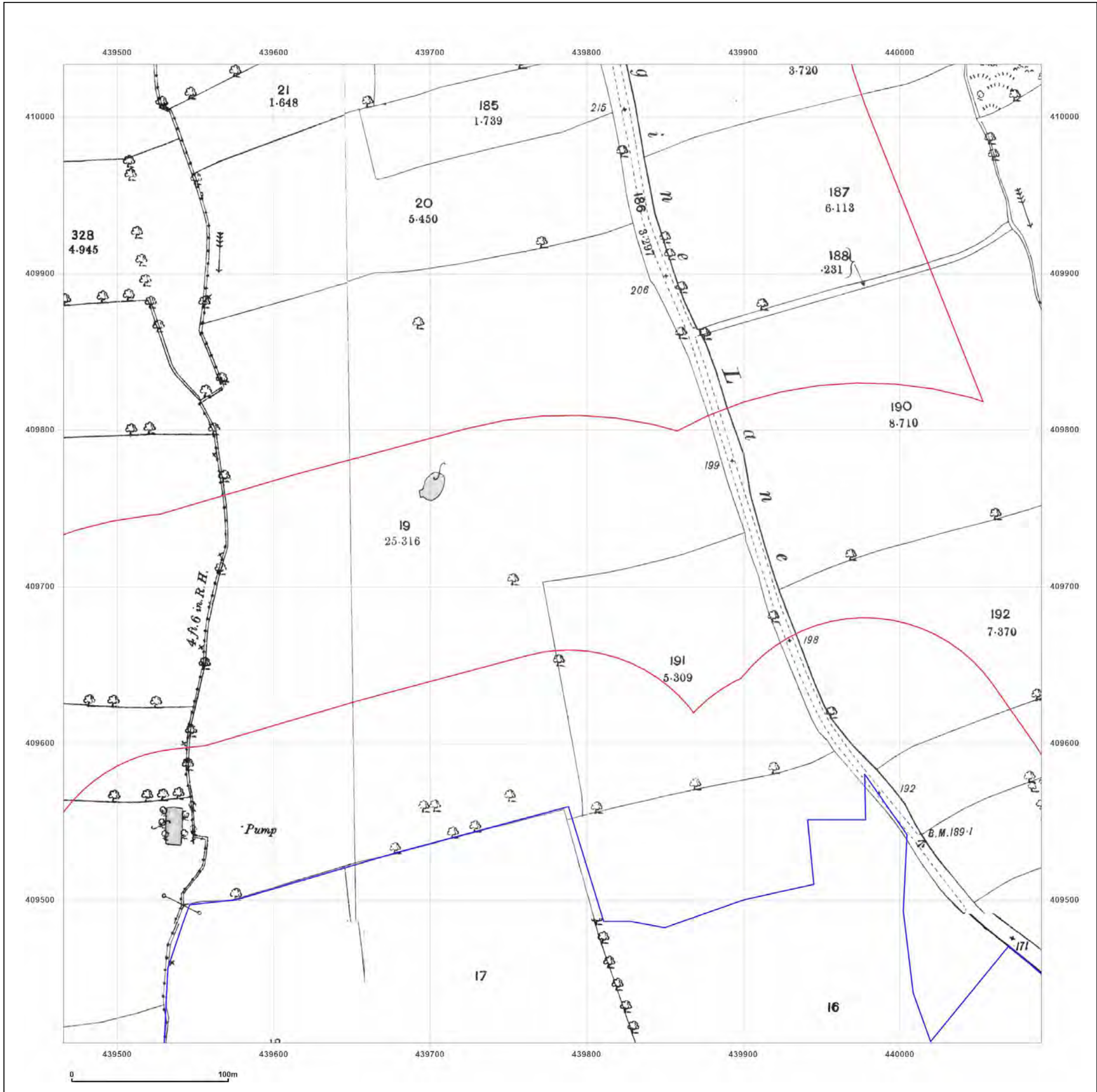


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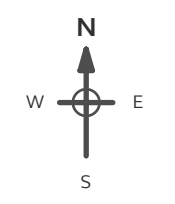
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Grid Ref: 439778, 409721

Map Name: County Series

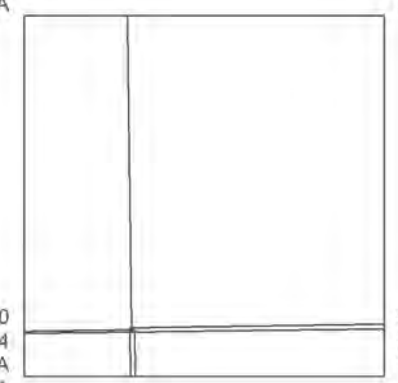
Map date: 1906

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1890
 Revised 1904
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1890
 Revised 1904
 Edition N/A
 Copyright N/A
 Levelled N/A

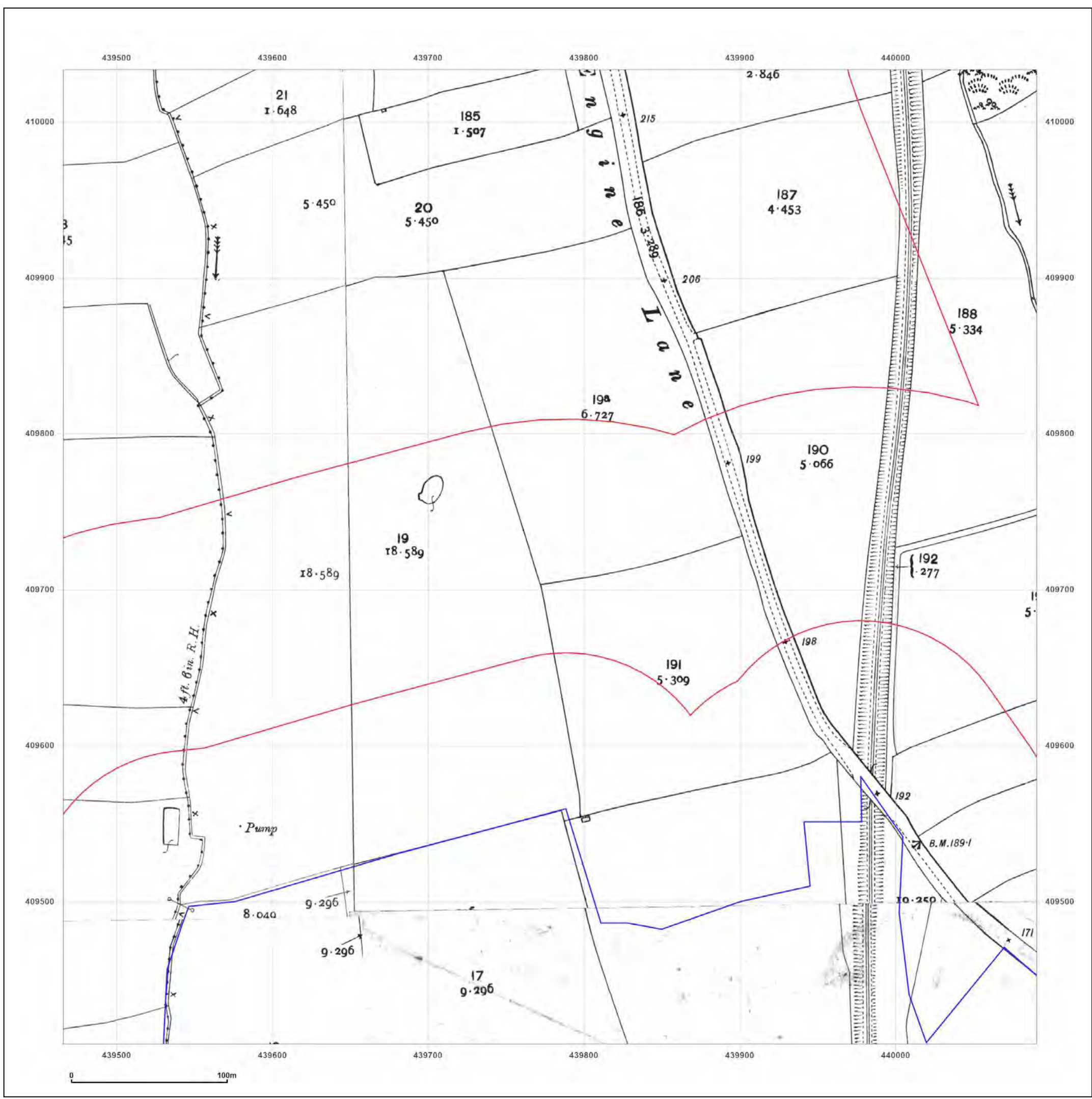


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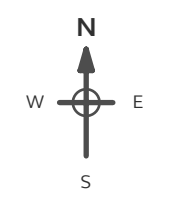
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Grid Ref: 439778, 409721

Map Name: County Series

Map date: 1918

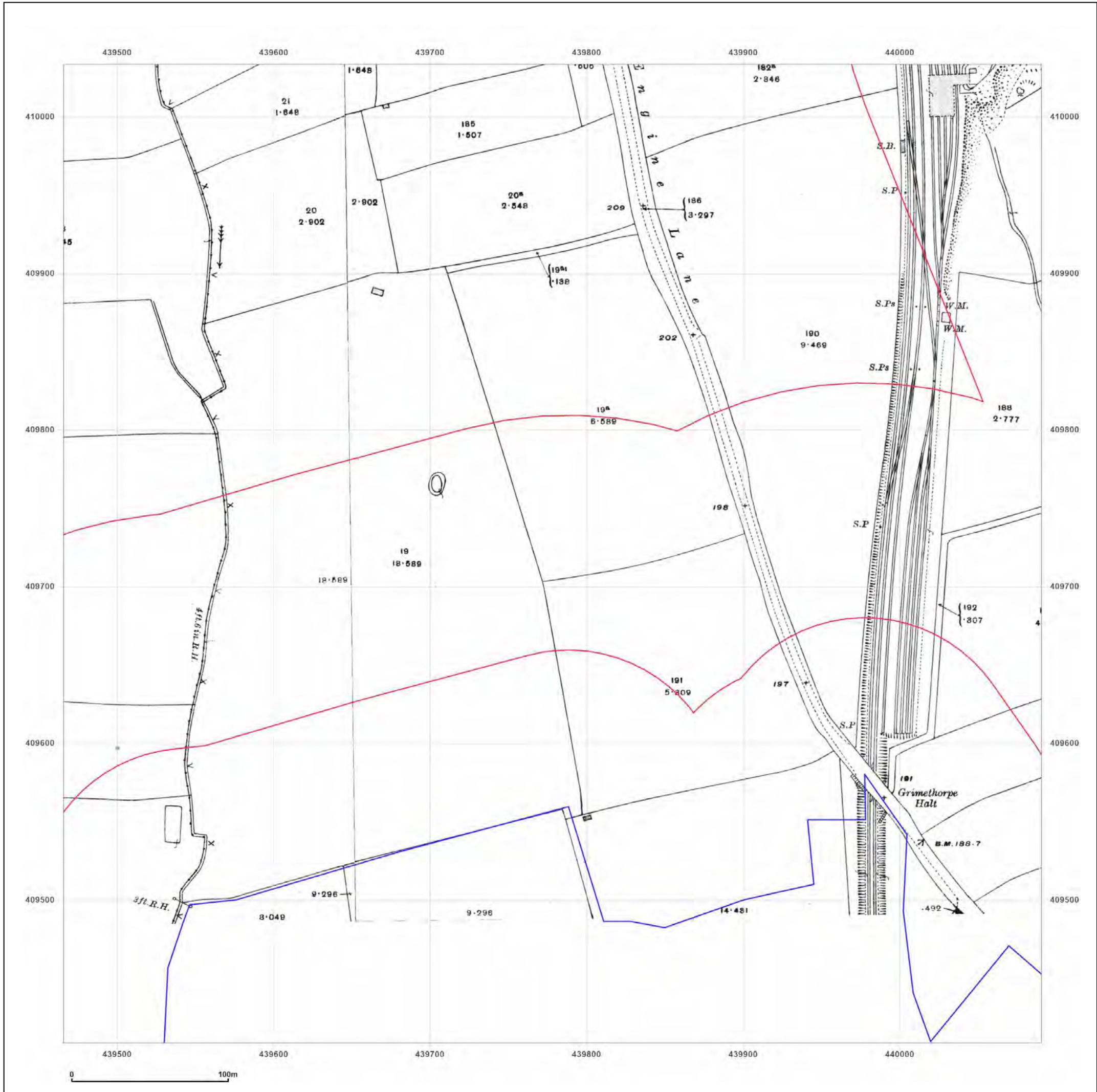
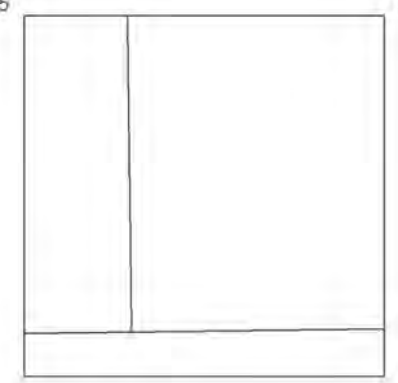
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Printed at: 1:2,500



Surveyed 1891
 Revised 1914
 Edition 1918
 Copyright N/A
 Levelled 1915

Surveyed 1891
 Revised 1914
 Edition 1918
 Copyright N/A
 Levelled 1915



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Site Details:

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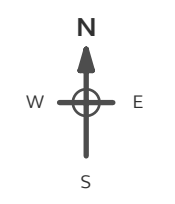
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Map Name: National Grid

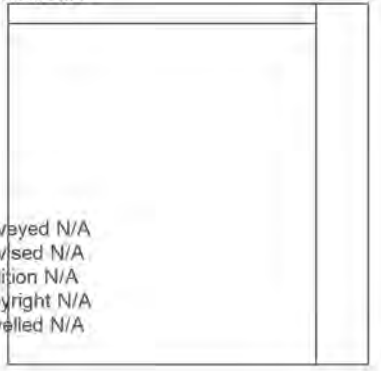
Map date: 1962

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

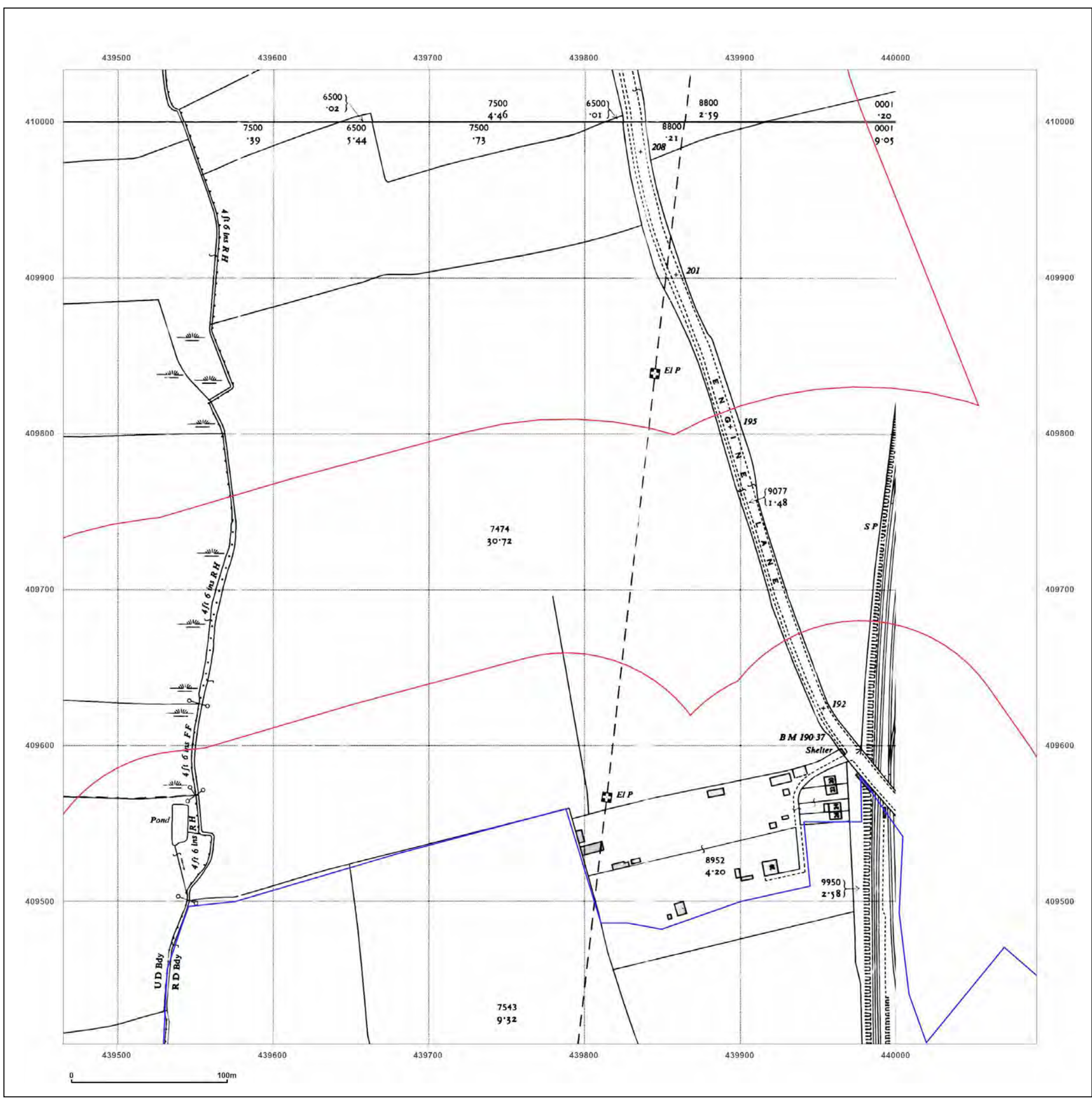


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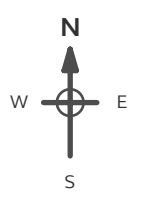


Site Details:

STREET RECORD, FERRYMOOR WAY, GRIMETHORPE, BARNSELY, S72 7BN

Client Ref: D10837
 Report Ref: GS-9190126_LS_2_3
 Grid Ref: 439778, 409721

Map Name: National Grid
 Map date: 1978-1979
 Scale: 1:2,500
 Printed at: 1:2,500



<p>Surveyed N/A Revised N/A Edition N/A Copyright 1978 Levelled N/A</p>	<p>Surveyed 1979 Revised 1979 Edition N/A Copyright 1979 Levelled N/A</p>	<p>Surveyed 1978 Revised 1978 Edition N/A Copyright 1978 Levelled N/A</p>
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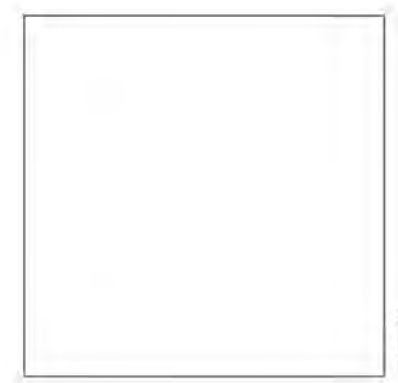
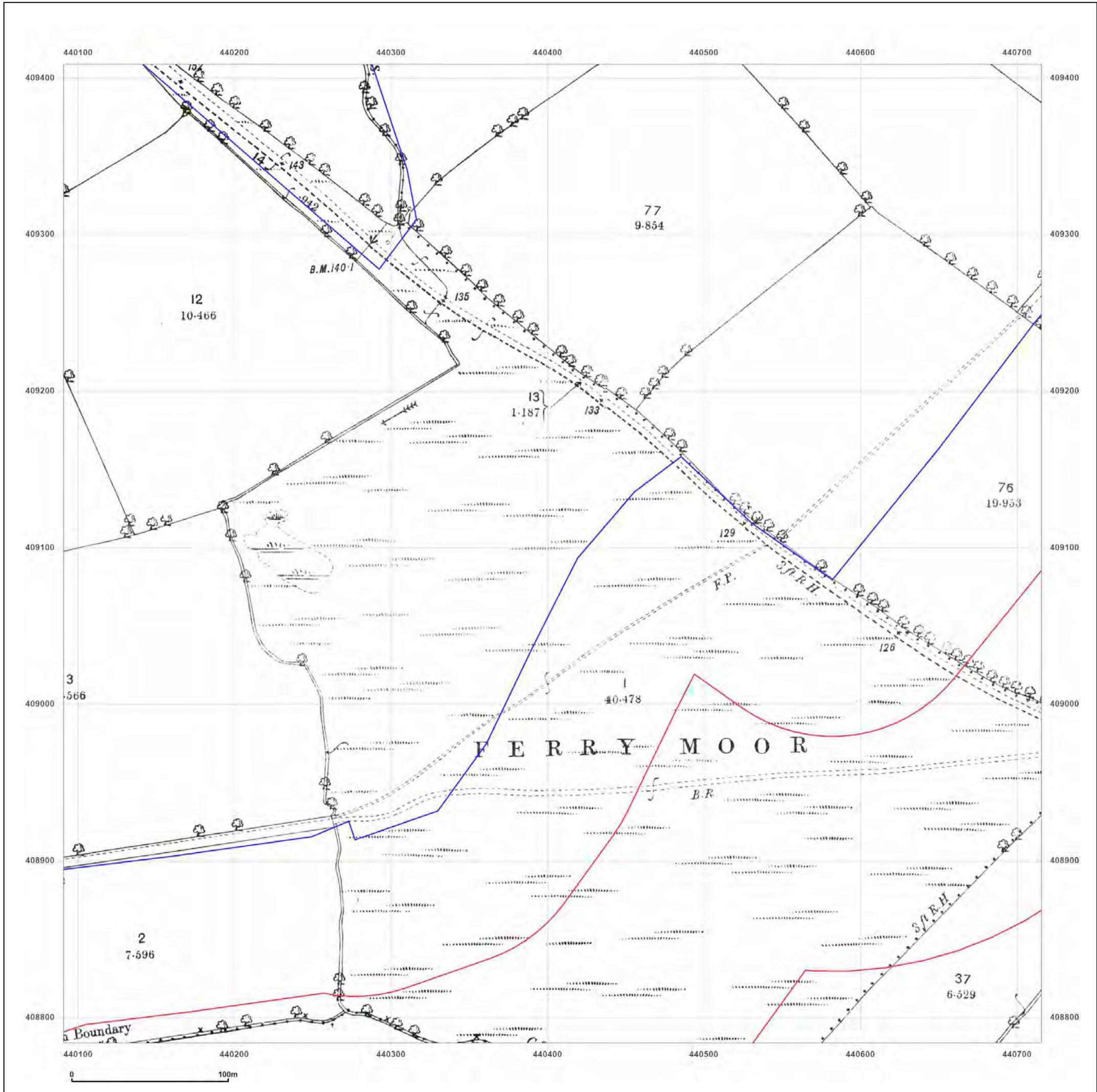
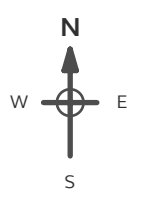
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Site Details:
 STREET RECORD, FERRYMOOR WAY, GRIMETHORPE, BARNSELY, S72 7BN

Client Ref: D10837
Report Ref: GS-9190126_LS_3_2
Grid Ref: 440403, 409096

Map Name: County Series
Map date: 1893
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1893
 Revised N/A
 Edition 1893
 Copyright N/A
 Levelled N/A



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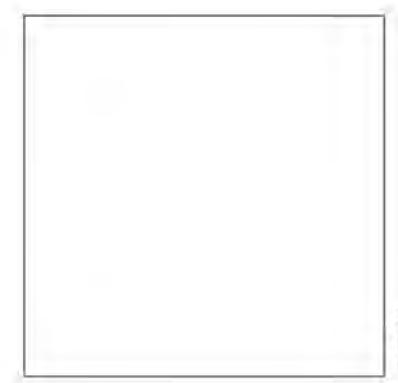
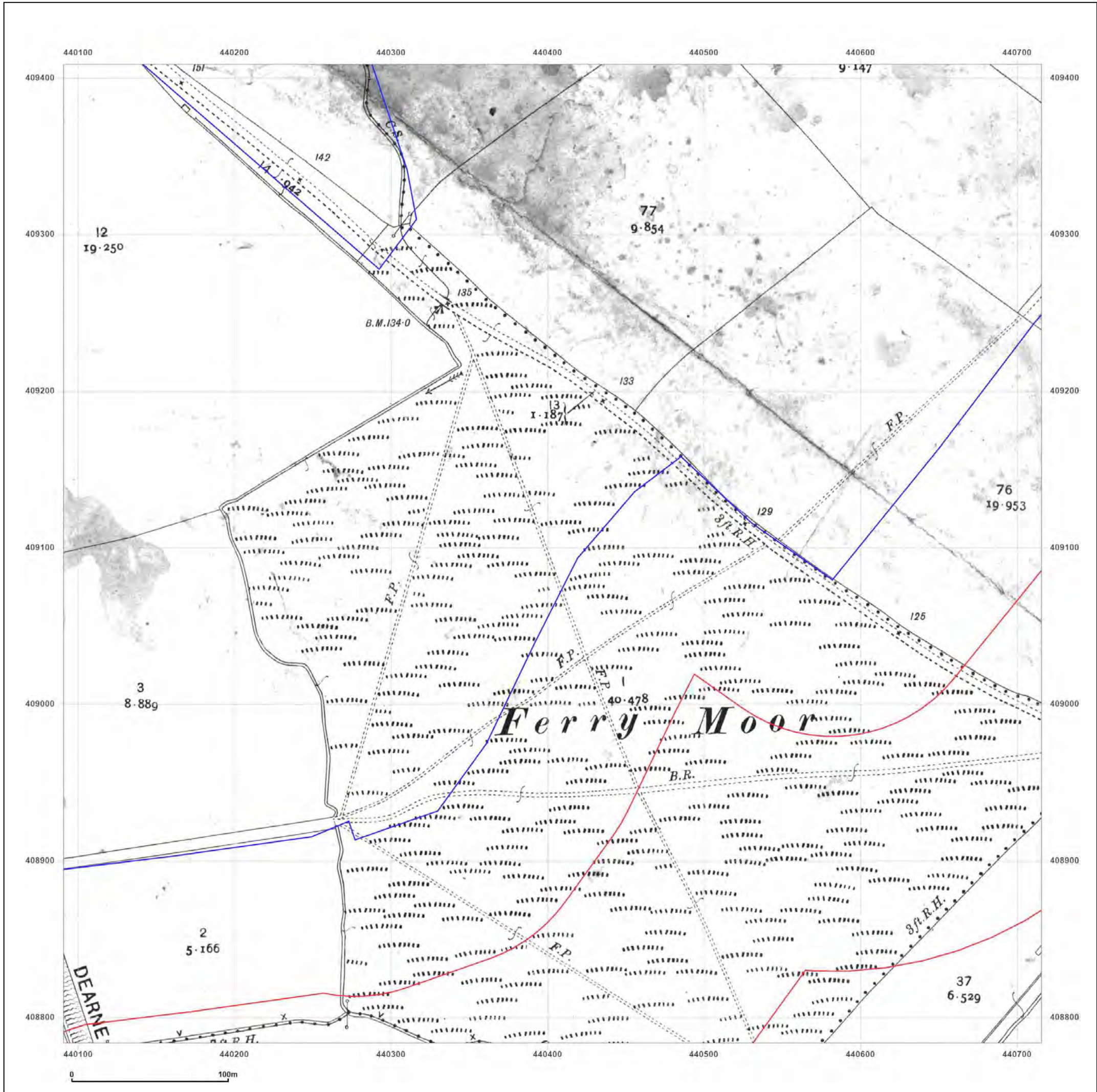
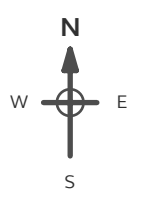
Map legend available at:
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Site Details:

STREET RECORD, FERRYMOOR WAY, GRIMETHORPE, BARNSELY, S72 7BN

Client Ref: D10837
 Report Ref: GS-9190126_LS_3_2
 Grid Ref: 440403, 409096

Map Name: County Series
 Map date: 1906
 Scale: 1:2,500
 Printed at: 1:2,500



Surveyed 1890
 Revised 1904
 Edition N/A
 Copyright N/A
 Levelled N/A



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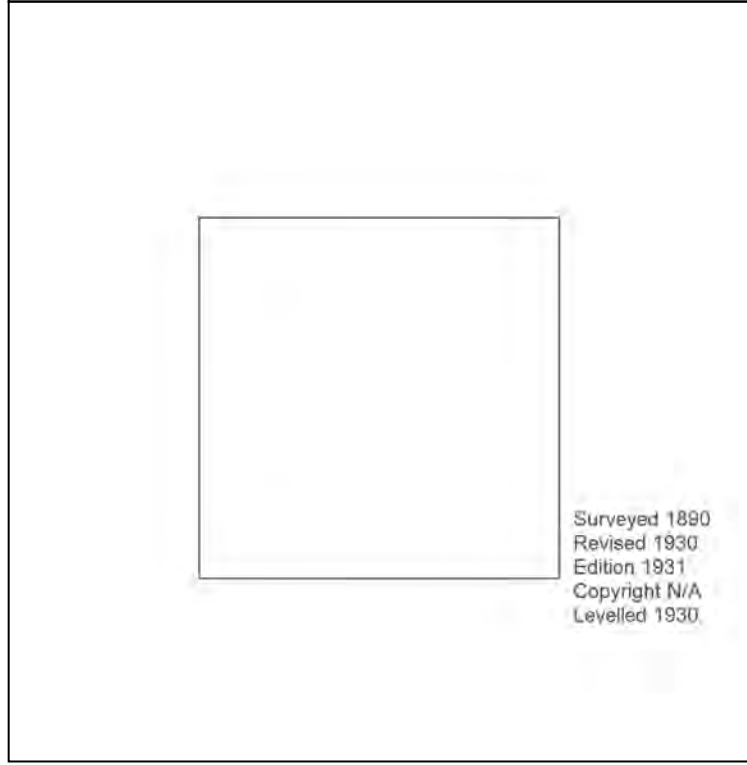
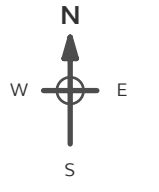
Production date: 10 November 2022

Map legend available at:
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Site Details:
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Client Ref: D10837
Report Ref: GS-9190126_LS_3_2
Grid Ref: 440403, 409096

Map Name: County Series
Map date: 1931
Scale: 1:2,500
Printed at: 1:2,500



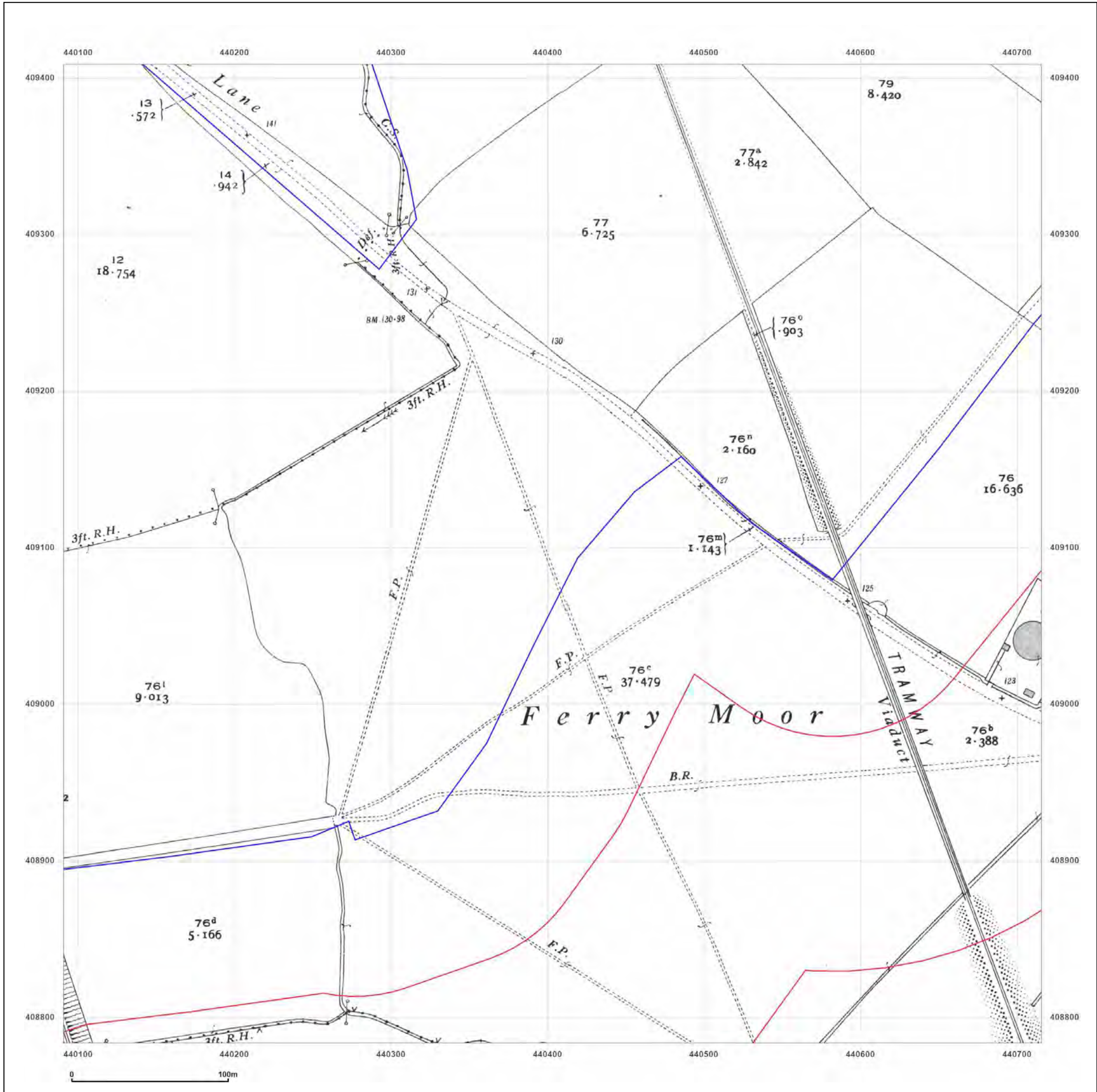
Surveyed 1890
 Revised 1930
 Edition 1931
 Copyright N/A
 Levelled 1930

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Client Ref: D10837
Report Ref: GS-9190126_LS_3_2
Grid Ref: 440403, 409096

Map Name: National Grid

Map date: 1962

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1961
 Revised 1961
 Edition N/A
 Copyright 1962
 Levelled 1959

Surveyed 1961
 Revised 1961
 Edition N/A
 Copyright 1962
 Levelled 1959

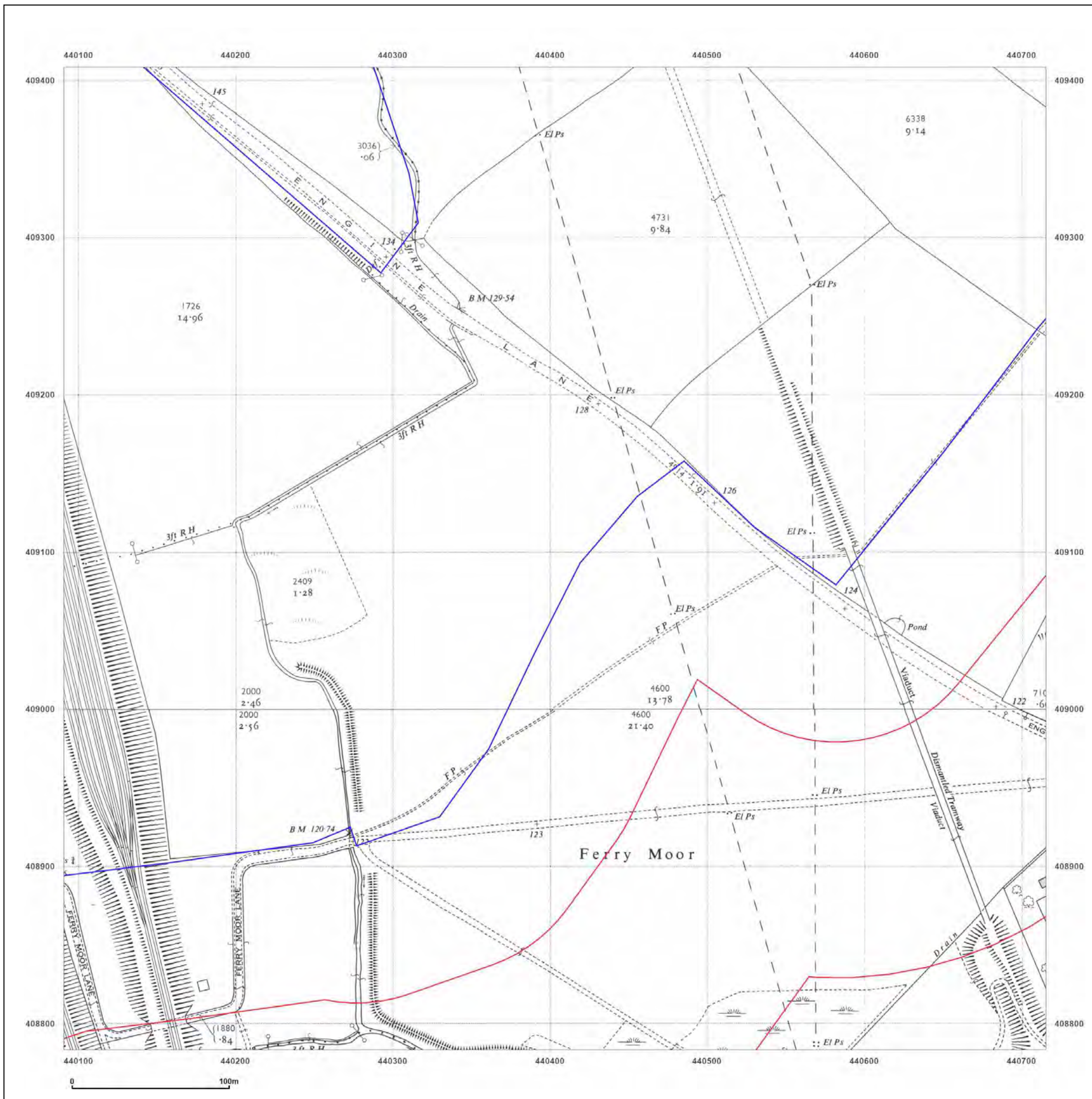


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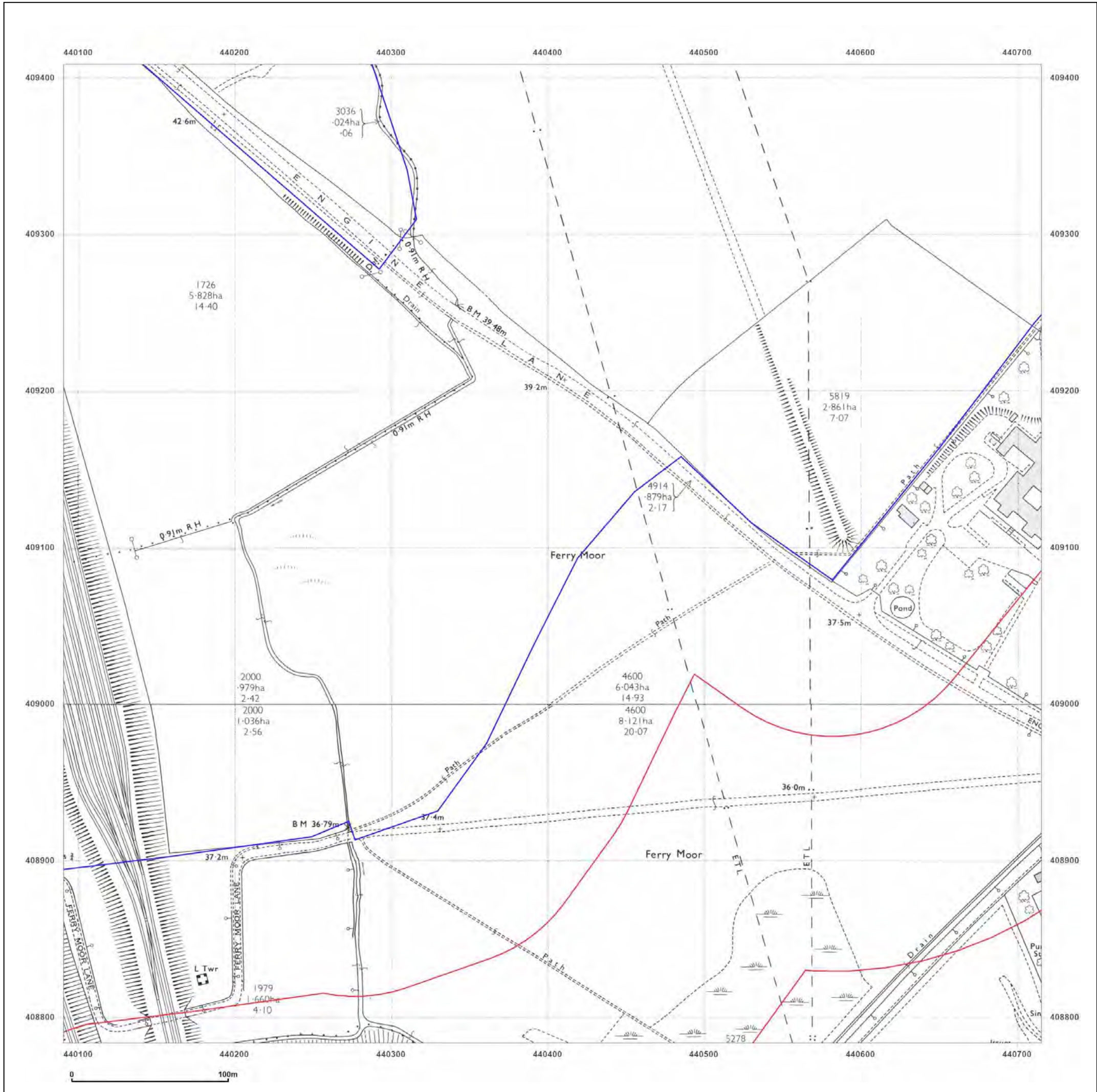
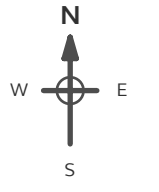


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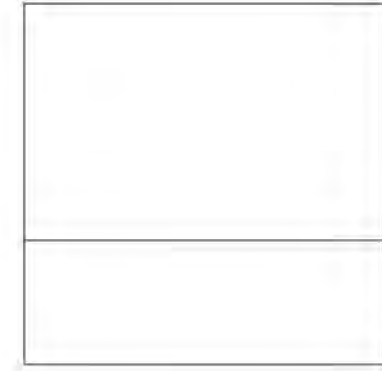
STREET RECORD, FERRYMOOR WAY, GRIMETHORPE, BARNSELY, S72 7BN

Client Ref: D10837
Report Ref: GS-9190126_LS_3_2
Grid Ref: 440403, 409096

Map Name: National Grid
Map date: 1973
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1972
 Revised 1972
 Edition N/A
 Copyright 1973
 Levelled 1964



Surveyed 1972
 Revised 1972
 Edition N/A
 Copyright 1973
 Levelled 1964



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Production date: 10 November 2022

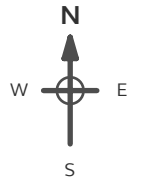
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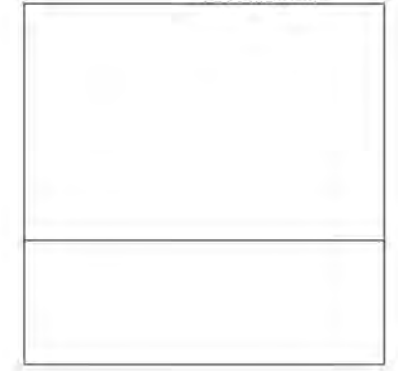
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Client Ref: D10837
 Report Ref: GS-9190126_LS_3_2
 Grid Ref: 440403, 409096

Map Name: National Grid
 Map date: 1978
 Scale: 1:2,500
 Printed at: 1:2,500



Surveyed 1978
 Revised 1978
 Edition N/A
 Copyright 1978
 Levelled N/A

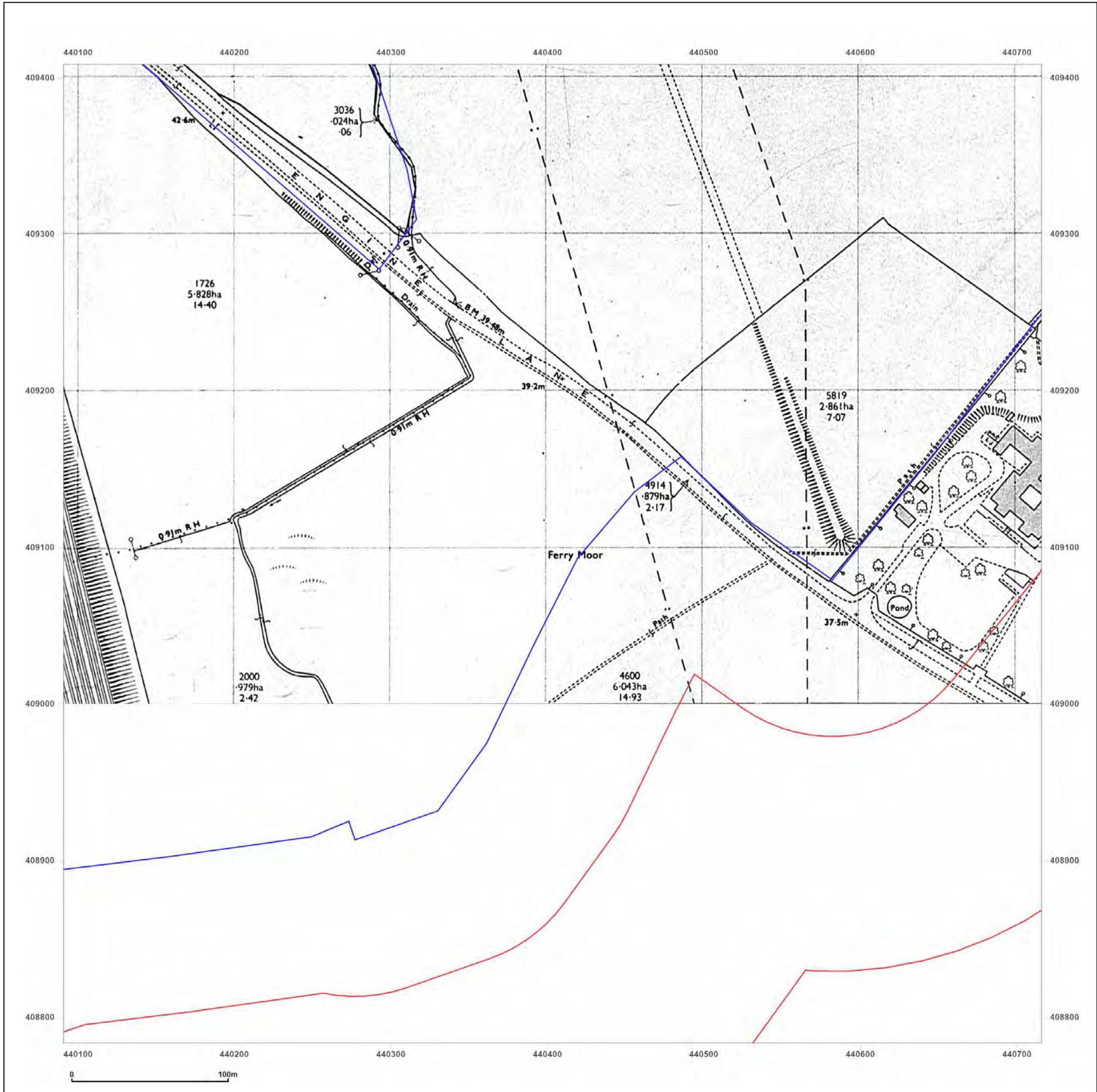


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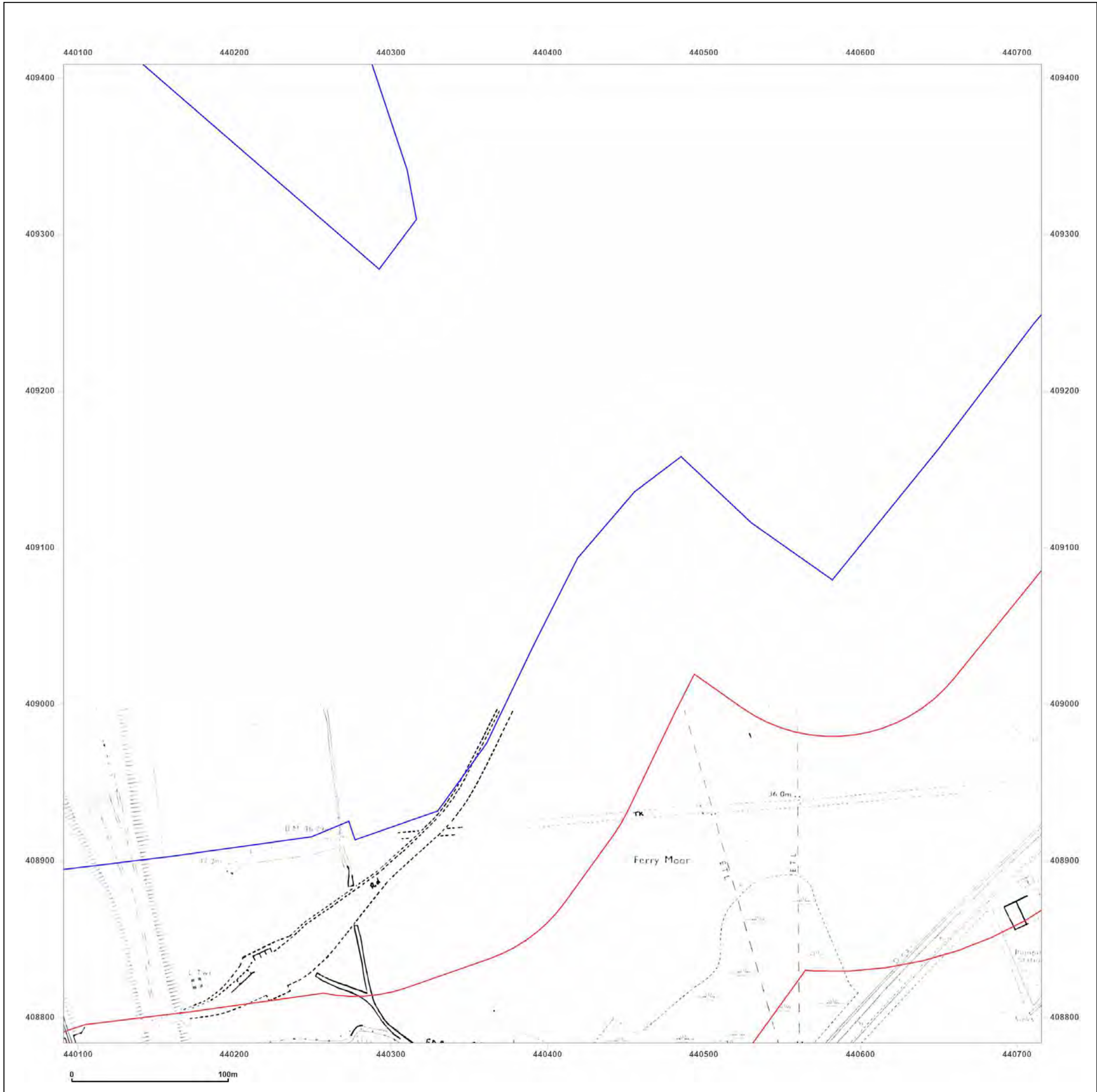
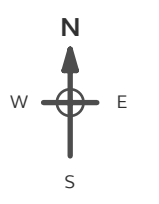


Site Details:

STREET RECORD, FERRYMOOR WAY, GRIMETHORPE, BARNSELY, S72 7BN

Client Ref: D10837
Report Ref: GS-9190126_LS_3_2
Grid Ref: 440403, 409096

Map Name: National Grid
Map date: 1984
Scale: 1:2,500
Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1984
 Levelled 1964



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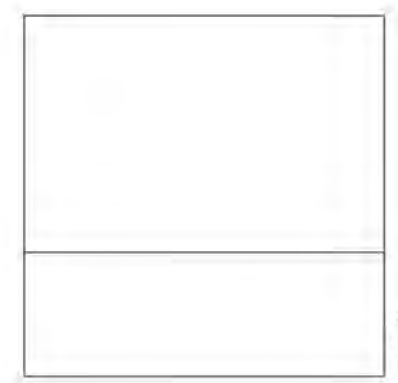
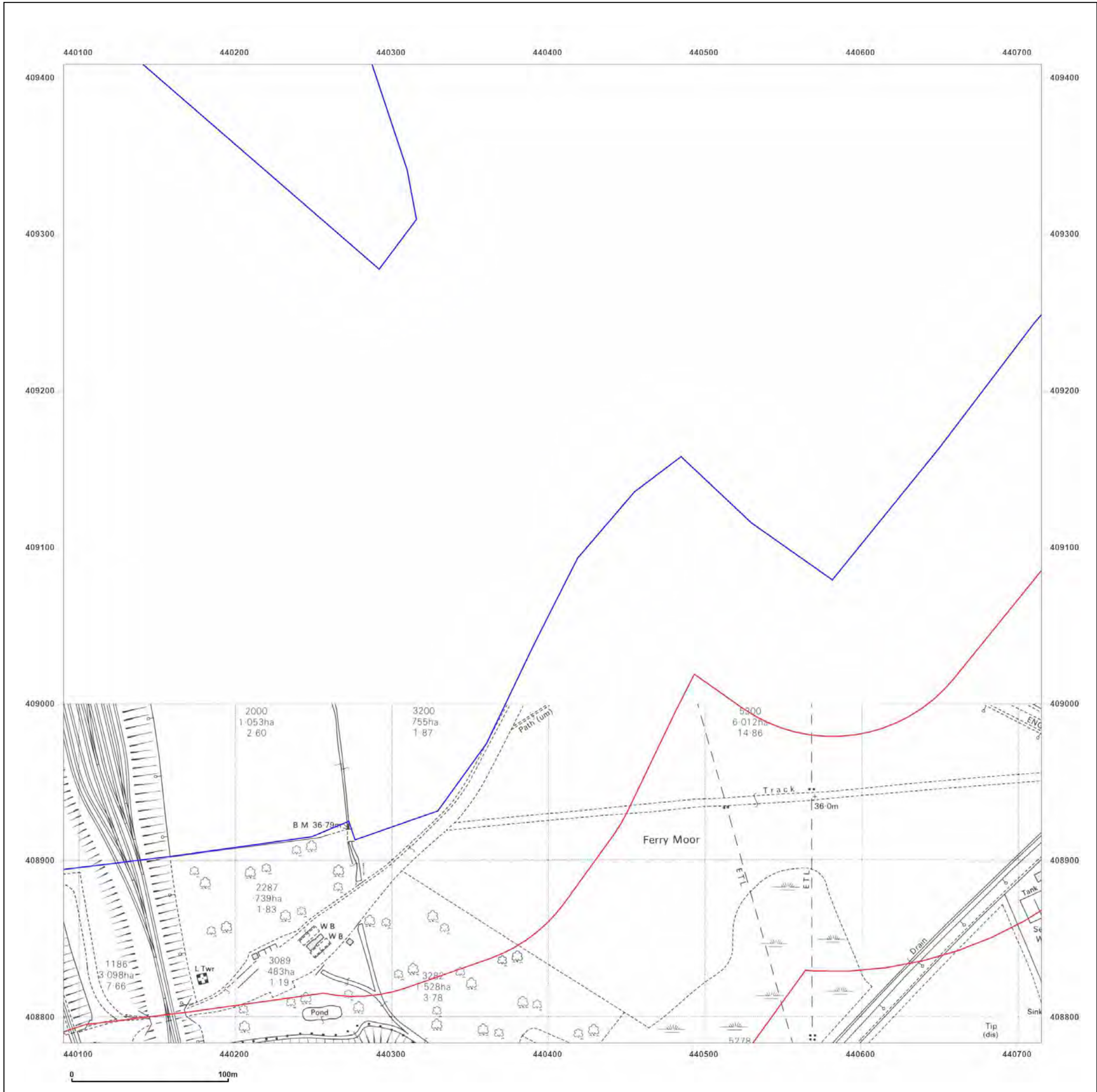
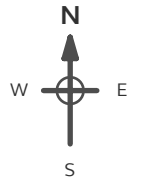
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Map legend available at: www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:
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 WAY, GRIMETHORPE,
 BARNSELY, S72 7BN

Client Ref: D10837
Report Ref: GS-9190126_LS_3_2
Grid Ref: 440403, 409096

Map Name: National Grid
Map date: 1986
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1985
 Revised 1985
 Edition N/A
 Copyright 1986
 Levelled 1964



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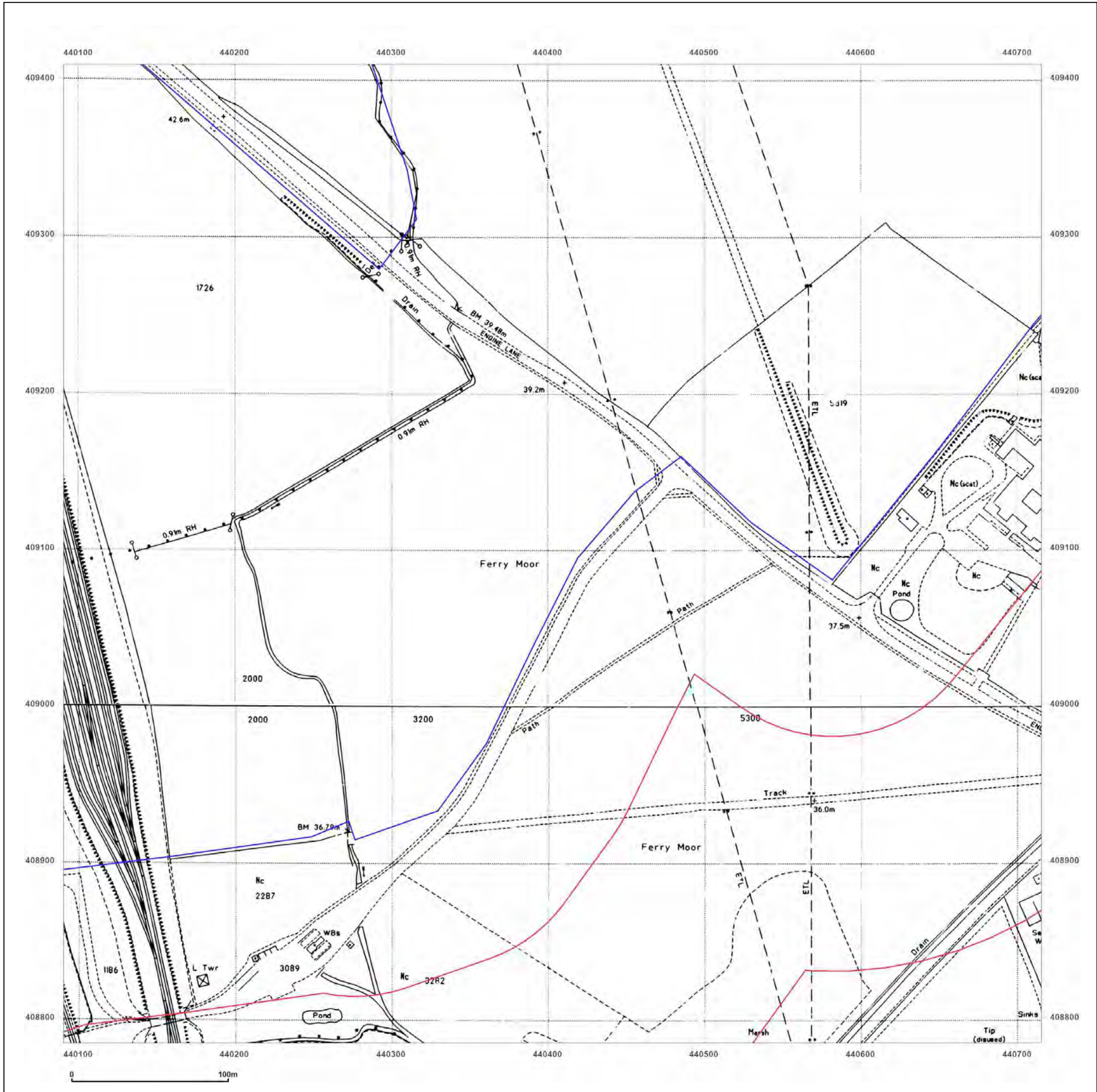
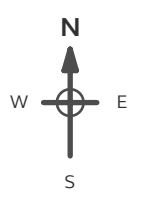
Production date: 10 November 2022

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Site Details:
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 WAY, GRIMETHORPE,
 BARNSELY, S72 7BN

Client Ref: D10837
Report Ref: GS-9190126_LS_3_2
Grid Ref: 440403, 409096

Map Name: National Grid
Map date: 1993
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1993
 Revised 1993
 Edition N/A
 Copyright 1993
 Levelled N/A



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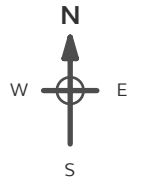
Client Ref: D10837
Report Ref: GS-9190126_LS_3_3
Grid Ref: 440403, 409721

Map Name: County Series

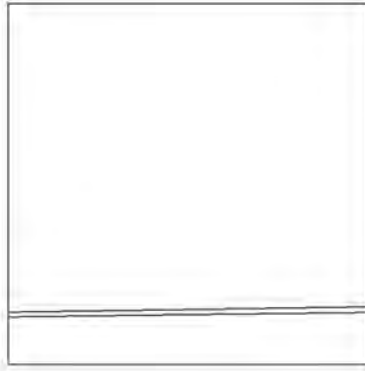
Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
Revised N/A
Edition 1893
Copyright N/A
Levelled N/A



Surveyed 1893
Revised N/A
Edition 1893
Copyright N/A
Levelled N/A

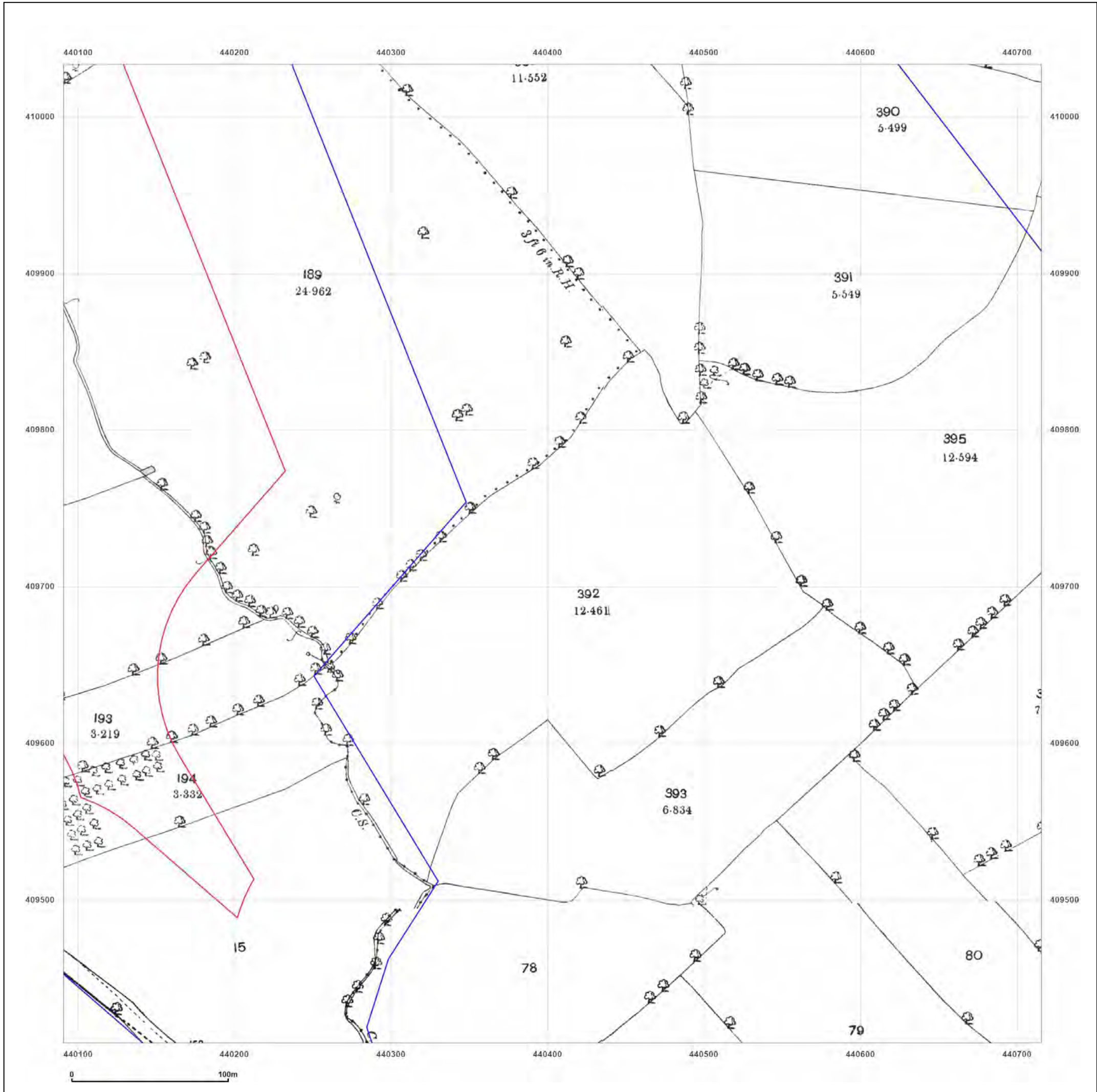


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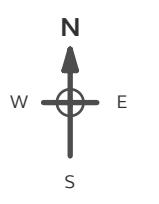


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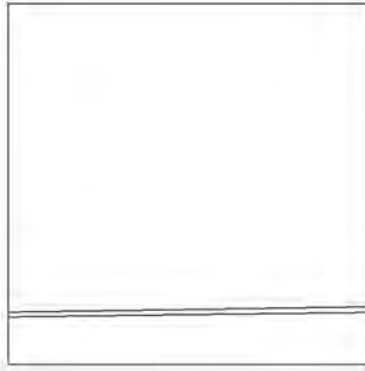
STREET RECORD, FERRYMOOR WAY, GRIMETHORPE, BARNSELY, S72 7BN

Client Ref: D10837
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Grid Ref: 440403, 409721

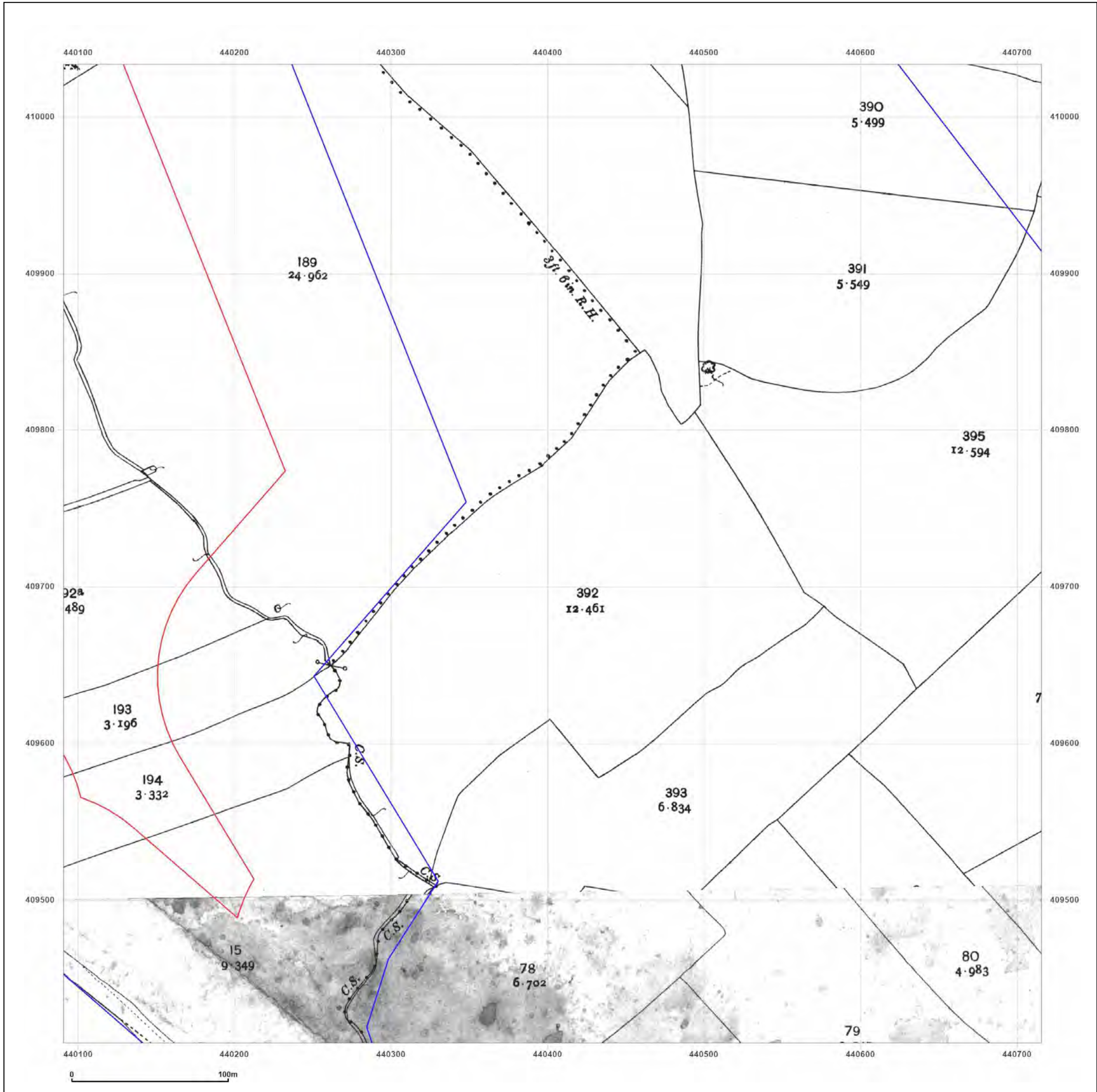
Map Name: County Series
Map date: 1906
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1890
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1890
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A





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