

A30 Chiverton to Carland Cross Environmental Statement

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A30 Chiverton to Carland Cross

Agricultural Land Classification and Soil Resources

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1. Introduction

- 1.1.1. Reading Agricultural Consultants Ltd (RAC) is instructed by WSP on behalf of the Highways England to investigate the Agricultural Land Classification (ALC) and soil resources of land along the A30 between Chiverton and Carland Cross, Cornwall, by means of a detailed survey of soil and site characteristics.
- 1.1.2. Guidance for assessing the quality of agricultural land in England and Wales is set out in the Ministry of Agriculture, Fisheries and Food (MAFF) revised guidelines and criteria for grading the quality of agricultural land (1988¹), and summarised in Natural England's Technical Information Note 049².
- 1.1.3. Agricultural land in England and Wales is graded between 1 and 5, depending on the extent to which physical or chemical characteristics impose long-term limitations on agricultural use. The principal physical factors influencing grading are climate, site and soil which, together with interactions between them, form the basis for classifying land into one of the five grades.
- 1.1.4. Grade 1 land is excellent quality agricultural land with very minor or no limitations to agricultural use, and Grade 5 is very poor quality land, with severe limitations due to adverse soil, relief, climate or a combination of these. Grade 3 land is subdivided into Subgrade 3a (good quality land) and Subgrade 3b (moderate quality land). Land which is classified as Grades 1, 2 and 3a in the ALC system is defined as best and most versatile agricultural land.
- 1.1.5. As explained in Natural England's TIN049, the whole of England and Wales was mapped from reconnaissance field surveys in the late 1960s and early 1970s, to provide general strategic guidance on agricultural land quality for planners. This Provisional Series of maps was published on an Ordnance Survey base at a scale of One Inch to One Mile (1:63,360). The Provisional ALC map shows the length of the route to be of undifferentiated Grade 3 quality with an area of Grade 2 to the north-west of Shortlanesend. However, TIN049 explains that:

"These maps are not sufficiently accurate for use in assessment of individual fields or development sites, and should not be used other than as general guidance. They show only five grades: their preparation preceded the subdivision of Grade 3 and the refinement of criteria, which occurred after 1976. They have not been updated and are out of print. A 1:250 000 scale map series based on the same information is available. These are more appropriate for the strategic use originally intended ..."

- 1.1.6 TIN049 goes on to explain that a definitive ALC grading should be obtained by undertaking a detailed survey according to the published guidelines, at an

¹ MAFF (1988). *Agricultural Land Classification of England and Wales. Revised guidelines and criteria for grading the quality of agricultural land.* MAFF Publications.

² Natural England (2012). *Technical Information Note 049 - Agricultural Land Classification: protecting the best and most versatile agricultural land*, Second Edition 19th December 2012.

observation density of one boring per hectare. This survey follows the detailed methodology set out in the MAFF guidelines.

2. Site and Climatic Conditions

2.1. General Features, Land Form and Drainage

- 2.1.1. The area subject to survey extends to approximately 12.7km in length and largely follows the route of the existing A30 between Chiverton and Carland Cross. Much of the land was under grass at the time of survey, with large arable fields to the south of the route and to the north of the B3284.
- 2.1.2. Topography throughout the survey area is undulating. The highest altitudes are at the northern and southern ends of the survey area, at around 145m above Ordnance Datum (AOD). The lowest altitudes, of around 75m AOD, are at Trevalso, Nancarrow and Little Nanteague. Slopes are typically shallow to moderate, although exceptionally steep gradients are present to the north of Carland Cross, measured at between 17 and 20°.
- 2.1.3. Drainage of land in the survey area is via the low altitude valleys which drain into the River Allen, flowing southward to Truro.

2.2. Agro-climatic Conditions

- 2.2.1. Agro-climatic data for the north and south of the survey area have been interpolated from the Meteorological Office's standard 5km grid point data set at representative altitudes of 120m and 135m AOD, and are given in Table 1. The area is warm and very wet with moderate to moderately small crop moisture deficits. The Field Capacity Day (FCD)³ regimes are longer than is the average for lowland England and considered to be unfavourable for providing opportunities for agricultural field work. There is an overriding climatic limitation within the survey area to Grade 2.

Table 1: Local agro-climatic conditions

	Carland Cross	Chiverton
Average Annual Rainfall	1,127mm	1,119mm
Accumulated Temperatures >0°C	1,506 day°	1,492 day°
Field Capacity Days	218 days	217 days
Average Moisture Deficit, wheat	84mm	82mm
Average Moisture Deficit, potatoes	71mm	68mm

³ Field Capacity Days represent the period when the soil moisture deficit is zero; i.e. the soil is full (or over-full) of water.

2.3. Soil Parent Material and Soil Type

- 2.3.1. The underlying geology mapped by the British Geological Survey⁴ in the north of the survey area, between Carland Cross and north of Marazanvose, is the Grampound Formation, comprising thinly interlaminated slaty mudstone and siltstone. Sporadic beds of sandstone and limestone may also be present. South of Marazanvose, interbedded slaty mudstone and sandstone of the Porthtowan Formation is mapped.
- 2.3.2. In the vicinity of Carland Cross, Zelah and Marazanvose, superficial deposits of glacial Head are mapped. These deposits may include poorly sorted gravel, sand and clay.
- 2.3.3. The Soil Survey of England and Wales soil association mapping⁵ (1:250,000 scale) shows the Denbigh 2 association to be present throughout the survey area. This association consists of well drained, fine loamy soils overlying slate or slate rubble. In south Cornwall, some slates are locally more weathered to slowly permeable clays, though most soils are of Wetness Class (WC) I.
- 2.3.4. Around Carland Cross, Chybucca and Three Burrows, there are pockets of the Sportsmans association. These soils occur on ridge tops and valley sides over sandstones, slates and shales and are characterised by slowly permeable and compact subsoil overlain by more permeable loamy material. Sportsmans soils are typically of WC III⁶.

3. Agricultural Land Quality

3.1. Soil Survey Methods

- 3.1.1. Observation of 70 soil profiles was attempted across the accessible land within the survey area, using an Edelman (Dutch) auger at an observation density of approximately one per hectare. However, the soil was exceptionally dry in many places resulting in severe difficulties in extracting material to observe. Two pits were also excavated with a spade to examine subsoil structures of the main soil type. The locations of observations are indicated on Figures RAC7538-1 - 4. The following characteristics were assessed for each observable soil horizon up to a maximum of 120cm or any impenetrable layer:

⁴ **British Geological Survey (2017)**. *Geology of Britain viewer*, <http://mapapps.bgs.ac.uk/geologyofbritain/home.html>

⁵ **Soil Survey of England and Wales (1984)**. *Soils of South West England (1:250,000), Sheet 5*

⁶ **Findlay et al. (1984)**. *Soils and Their Use in South West England, Soil Survey of England and Wales, Bulletin 14*. Harpenden

- soil texture;
 - significant stoniness;
 - colour (including local gley and mottle colours);
 - consistency;
 - structural condition;
 - free carbonate; and
 - depth.
- 3.1.2. Three topsoil samples were submitted for laboratory determination of particle size distribution, pH, organic matter content and nutrient contents (P, K, Mg). Results are given in Appendix 1.
- 3.1.3. Soil Wetness Class (WC) was inferred from the matrix colour, presence or absence of, and depth to, greyish and ochreous gley mottling and/or poorly permeable subsoil layers at least 15cm thick, in relation to the number of Field Capacity Days at the location.
- 3.1.4. Soil droughtiness was investigated by the calculation of moisture balance equations (given in Appendix 2). Crop-adjusted Available Profile Water (AP) is estimated from texture, stoniness and depth, and then compared to a calculated moisture deficit (MD) for the standard crops wheat and potatoes. The MD is a function of potential evapotranspiration and rainfall. Grading of the land can be affected if the AP is insufficient to balance the MD and droughtiness occurs.

3.2. Agricultural Land Classification and Site Limitations

- 3.2.1. Assessment of quality has been carried out according to the MAFF revised guidelines (1988¹). Soil profiles have been described according to Hodgson (1997⁷) which is the recognised source for describing soil profiles and characteristics according to the MAFF revised ALC guidelines.
- 3.2.2. Agricultural land quality in the survey area is most affected by soil wetness and workability as influenced by the very wet climate. The limitation ranges from very good quality Grade 2 to moderate quality Subgrade 3b, depending on the specific topsoil texture. A small area of land at the northern end of the survey area is limited to Grade 5 due to exceptionally steep slopes.
- 3.2.3. In accordance with the published soil association mapping, there is considered to be one dominant soil type throughout the area. The topsoil is of clay loam or clay of around 30cm average thickness. The colour is predominantly brown (7.5YR4/3 7.5YR4/4, 10YR4/3 or 10YR5/3 in the Munsell soil colour charts⁸), with greyish brown and yellowish brown (10YR4/2, 10YR5/2 or 10YR5/4) also present.

⁷ Hodgson, J. M. (Ed.) (1997). *Soil survey field handbook*. Soil Survey Technical Monograph No. 5, Silsoe.

⁸ Munsell Color (2009). *Munsell Soil Color Book*, Grand Rapids, MI, USA

- 3.2.4. At the northern end of the survey area, the topsoil structure is moderately well to well developed with fine angular blocky peds. The consistency was loose and dry at the time of survey. Common to many medium roots grow throughout the topsoil, which is well drained and adequately aerated through common pores. Between 0 and 25cm depth, the stone content of the profile is around 15% total stone, mostly smaller than 2cm. The stone content increases to 30% total to a depth of around 30cm, from where the material becomes predominantly stone within a soil matrix (estimated at 70%). As the soil was so dry, it was not possible to excavate this further.
- 3.2.5. In the centre of the survey area and shown in Pit 2, the topsoil structure is weakly developed with fine subangular blocky peds. Common medium roots are present, though few pores were observed. The stone content is around 5% at the soil surface, increasing to 20% between around 20 to 40cm.
- 3.2.6. Subsoil was observed in Pit 2 and comprised heavy clay loam with a weak, fine subangular blocky structure. Few fine and medium roots are distributed within the soil between depths of 45 to 50cm. The stone content is very high at between 60 and 70% by volume. There is no evidence of wetness in the subsoil: the profile is of WC I. Photographs of each of the pits are given in Appendix 3.
- 3.2.7. This subsoil type is common throughout the survey area, predominantly comprising heavy clay loam or clay textures. The colour is various shades of brown or yellowish brown (7.5YR4/3, 5/3, 5/4, 5/6, 10YR4/3, 5/3, 5/4 or 5/6) and the stone content is commonly estimated at 15 to 20% in the upper subsoil layers. The average depth to which soil was observed is around 50cm in the south of the survey area and around 40cm in the north.
- 3.2.8. Most of the subsoil observed is well drained and shows no evidence of waterlogging, resulting in WC I. The main limitation to agricultural land quality is therefore determined by the topsoil texture in combination with the number of FCDs. Where the topsoil is of medium clay loam, the wetness and workability limitation is to Grade 2. Profiles with heavy clay loam topsoil are limited to Subgrade 3a and those with clay topsoil are limited more severely to Subgrade 3b.
- 3.2.9. A second minor soil type is present in which the subsoil displays ochreous mottles against a greyish or pale matrix colour. Although still permeable, the high number of FCDs and fine soil textures result in WC III. In profiles of WC III with a medium clay loam topsoil texture, the wetness and workability limitation is to Subgrade 3a and where of heavy clay loam is to Subgrade 3b.
- 3.2.10. A small area of the site, at Observation 41 (shown in Appendix 3), is limited to Subgrade 3b by topsoil stone content as the percentage of topsoil stones larger than 2cm exceeds 15% by volume.
- 3.2.11. Where the soil was too dry to enable full observations, assumptions have been made as to the composition of subsoil horizons, based upon nearby auger and pit observations. Due to the correlation between the mapped soil type and the findings of the survey, an assumption has also been made regarding the presence of mudstone bedrock within a moderate depth of the soil surface. The assumption is typically 80cm

depth so as not to impose a more severe wetness limitation on profiles which evidence otherwise suggests are permeable.

- 3.2.12. The total areas of each ALC grade are given in Table 2 and are shown in Figures RAC7538-5 - 8.

Table 2: Agricultural Land Classification

Grade	Description	Area (ha)	% of agric. land
1	Excellent quality	0.0	-
2	Very good quality	69.9	47
3a	Good quality	44.3	30
3b	Moderate quality	31.4	21
4	Poor quality	0.0	-
5	Very poor quality	1.9	1
	Total Agricultural	147.5	100
	Other land	64.3	

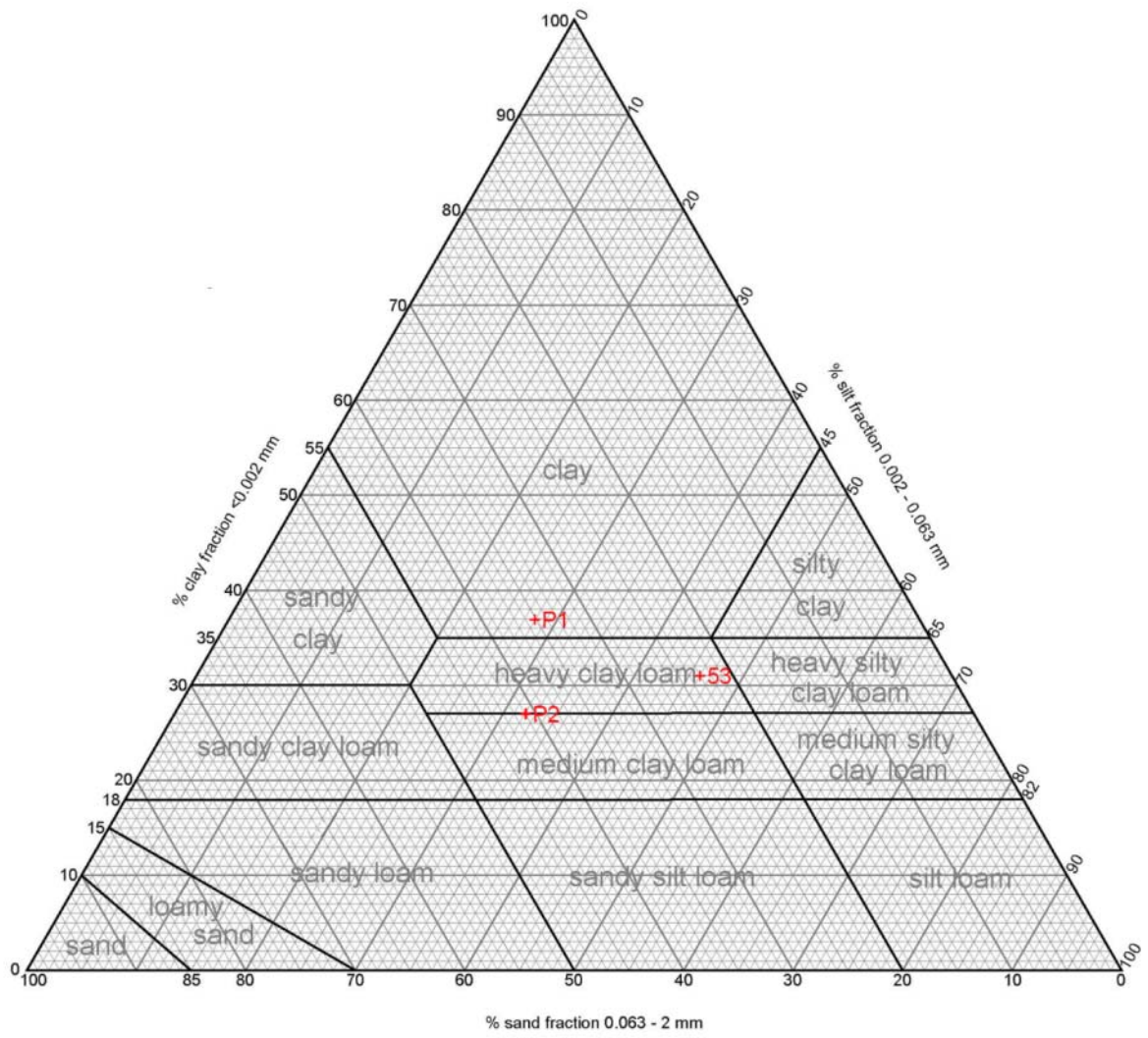
Appendix 1: Laboratory Data

Determinand	Site P1	Site P2	Site 53	Units
Sand 2.00-0.063 mm	35	41	23	% w/w
Silt 0.063-0.002 mm	28	32	46	%w/w
Clay <0.002 mm	37	27	31	% w/w
Organic Matter WB	4.2	4.2	4.9	% w/w
Texture	Clay	Heavy Clay Loam	Heavy Clay Loam	% w/w

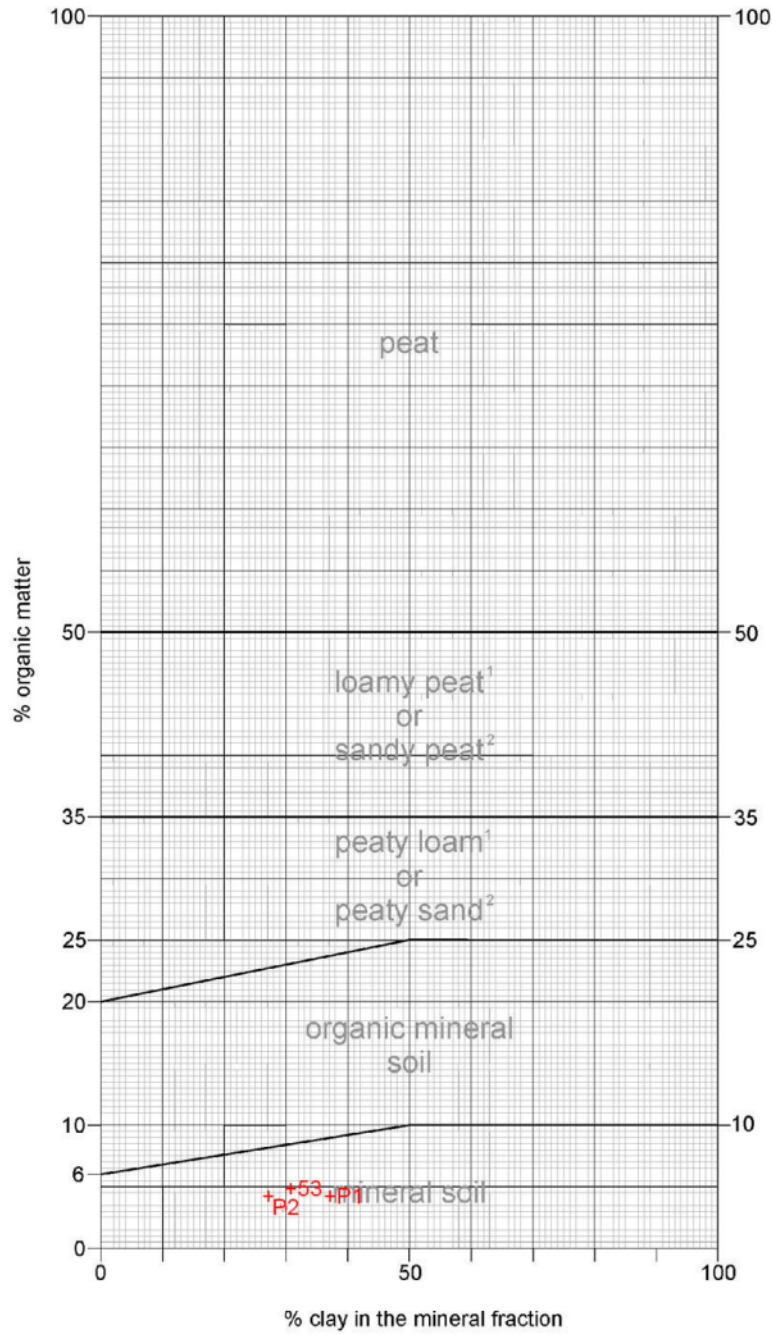
Determinand	Site P1	Site P2	Site 53	Units
Soil pH	5.4	5.7	5.8	
Phosphorus (P)	5.8	8.4	3.8	mg/l (av)
Potassium (K)	93.1	28.6	26.2	mg/l (av)
Magnesium (Mg)	67.3	35.1	80.5	mg/l (av)

Determinand	Site P1	Site P2	Site 53	Units
Phosphorus (P)	0	0	0	ADAS Index
Potassium (K)	1	0	0	ADAS Index
Magnesium (Mg)	2	1	2	ADAS Index

Soil Texture by Particle Size Distribution



Organic Matter Class



¹ Less than 50% sand in the mineral fraction

² 50% sand or more in the mineral fraction

Appendix 2: Soil Profile Summaries and Droughtiness Calculations

Wetness / workability limitations are determined according to the methodology given in Appendix 3 of the ALC guidelines, MAFF 1988

Droughtiness calculations are made according to the methodology given in Appendix 4 of the ALC guidelines, MAFF 1988.

Grades are shown for drought, wetness and any other soil or site factors which are relevant. The overall Grade is set by the most limiting factor and shown on the right.

Stone types		
%	TA _v	E _{av}
hard	1	0.5

hard flint & pebble

Climate Data	
MDwheat	84
MDpotato	71

Wetness Class Guidelines	II	III	IV	V
SPL within 80cm, gleying within 40cm		>59cm	<59cm	
SPL within 80cm, gleying at 40-70cm		>79cm	<79cm	
No SPL but gleying within 40cm	coarse subsoil	II	other cases	III

Maximum depth of auger penetration is underlined

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone%	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
1	0-30	ZCL		10YR5/3			5		-	54	54	n	n	/	2	5	Topo
	30-40	mCL		10YR5/3	och	fmd	15			14	14	n	n				
	<u>40</u> -80	mCL		10YR5/3	och	fmd	50			24	26	n	n				
	80-120	Mst								20	0						
										Total	112	94					
									MD	28	23						
									Droughtiness grade (DR)		2	1					
2	0-25	C		7.5YR4/3			5			41	41	n	n	/	3b	5	Topo
	25-30	C		10YR5/4			20			7	7	n	n				
	<u>30</u> -80	C		10YR5/4			20			46	52	n	n				
	80-120	Mstone								20	0						
									Total	112	99						
									MD	28	28						
									Droughtiness grade(DR)		2	1					
3	0-30	C		10YR4/3			20			41	41	n	n	/	3b	3b	WE

		<u>30</u>	80	hCL	10YR5/4			15		53	55	n	n				
		80	120	Mstone						20	0						
									Total	115	96						
									MD	31	25						
									Droughtiness grade(DR)	1	1						
4	T	0	30	C	10YR4/3			20		41	41	n	n	/	3b	3b	WE
		30	35	hCL	10YR5/4			15		7	7	n	n				
		<u>35</u>	80	hCL	10YR5/4			15		46	48	n	n				
		80	120	Mstone						20	0						
									Total	115	96						
									MD	31	25						
									Droughtiness grade(DR)	1	1						
5	T	0	10	mCL	10YR4/2	och	fmd	10	-	16	16	n	n	/	2	2	WE DR
		10	30	mCL	10YR5/3	och	fmd	20		26	26	n	n				
		<u>30</u>	80	mCL	10YR5/4			50		33	34	n	n				
		80	120	Mst						20	0						
									Total	95	76						
									MD	11	5						
									Droughtiness grade (DR)	2	2						
6	T	0	10	mCL	10YR4/2	och	fmd	10	-	16	16	n	n	/	2	2	WE DR
		<u>10</u>	35	mCL	10YR5/3	och	fmd	20		33	33	n	n				
		35	80	mCL	10YR5/4			50		29	30	n	n				
		80	120	Mst						20	0						
									Total	97	79						
									MD	13	8						
									Droughtiness grade (DR)	2	2						
7	T	0	10	SCL	10YR5/2	och	fmd	10	-	15	15	n	n	/	2	2	WE DR
		<u>10</u>	35	mCL	10YR5/3	och	fmd	20		33	33	n	n				
		35	80	mCL	10YR5/4			50		29	30	n	n				
		80	120	Mst						20	0						

													Total	96	78				
													MD	12	7				
													Droughtiness grade (DR)		2	2			
8	T	0	35	hCL	10YR5/4			30	-	45	45	n	n	/	3a	3a	WE DR		
		<u>35</u>	40	hCL	10YR5/4			30		6	6	n	n						
		40	120	hCL	10YR5/3			70		29	17	n	n						
													Total	80	67				
													MD	-4	-4				
As Pit 1													Droughtiness grade(DR)		3a	2			
9	T	0	30	hCL	10YR4/3			15	-	46	46	n	n	/	3a	3a	WE DR		
		<u>30</u>	35	hCL	10YR4/3			30		6	6	n	n						
		35	120	hCL	10YR5/3			70		32	19	n	n						
													Total	84	71				
													MD	0	0				
As Pit 1													Droughtiness grade(DR)		3a	2			
10	T	0	28	hCL	10YR4/3			5	-	48	48	n	n	///	3b	3b			
		28	38	hCL	10YR5/3	och	cff	20		14	14	y	n						
		<u>38</u>	120	hCL	10YR5/3	och	cff	70		30	18	y	n						
													Total	92	79				
													MD	8	8				
As Pit 1													Droughtiness grade(DR)		2	2			
11	T	0	25	C	10YR4/3			15	-	37	37	n	n	/	3b	3b	WE		
		25	30	C	10YR4/3			30		6	6	n	n						
		<u>30</u>	80	C	10YR4/3			70		19	22	n	n						
		80	120	Mst						20	0								
													Total	82	64				
													MD	-2	-7				
As Pit 1													Droughtiness grade (DR)		3a	2			
12	T	0	30	mCL	10YR5/3			5	-	51	51	n	n	/	2	2	WE		

		<u>30</u>	80	SCL		10YR5/3		15		52	52	n	n				
		80	120	Mst						20	0						
									Total	123	103						
									MD	39	32						
									Droughtiness grade (DR)	1	1						
13	T	0	25	mCL		10YR5/3		10	-	41	41	n	n	/	2	2	DR
		25	50	SCL		10YR5/3		15		32	32	n	n				
		<u>50</u>	80	SCL		10YR5/3		30		21	22	n	n				
		80	120	Mst		10YR5/3		50		11	0						
									Total	105	95						
									MD	21	24						
									Droughtiness grade (DR)	2	1						
14	T	0	40	C		7.5YR4/3		5		65	65	n	n	/	3b	3b	WE
		40	44	C		7.5YR5/3		10		6	6						
		<u>44</u>	80	C		7.5YR5/3		20		27	34	n	n				
		80	120	Mstone						20	0						
									Total	118	104						
									MD	34	33						
									Droughtiness grade(DR)	1	1						
15	T	0	35	hCL		7.5YR4/3		5		60	60	n	n	/	3a	3a	WE
		35	44	hCL		10YR5/4	och	ffd	10	13	13	n	n				
		<u>44</u>	120	hCL		10YR5/4	och	ffd	10	72	38	n	n				
									Total	145	111						
									MD	61	40						
									Droughtiness grade(DR)	1	1						
16	T	0	28	hCL		7.5YR4/3		5		48	48	n	n	/	3a	3a	WE
		28	30	hCL		7.5YR5/3		20		3	3	n	n				
		<u>30</u>	80	hCL		7.5YR5/3		20		50	52	n	n				
		80	120	Mstone						20	0						

										Total	121	103					
										MD	37	32					
										Droughtiness grade(DR)	1	1					
17	T	0	25	C	7.5YR4/3			20		35	35	n	n	/	3b	3b	WE
		25	30	hCL	7.5YR5/3			20		7	7	n	n				
		<u>30</u>	80	hCL	7.5YR5/3			20		50	52	n	n				
		80	120	Mstone						20	0						
										Total	111	93					
										MD	27	22					
										Droughtiness grade(DR)	2	1					
18	T	0	22	hCL	7.5YR4/3			20		32	32	n	n	/	3a	3a	WE
		<u>22</u>	30	hCL	7.5YR5/3			20		10	10	n	n				
		30	80	hCL	7.5YR5/3			20		50	52	n	n				
		80	120	Mstone						20	0						
										Total	113	95					
										MD	29	24					
										Droughtiness grade(DR)	2	1					
19	T	0	30	mCL	10YR5/3			5	-	51	51	n	n	/	2	2	WE
		<u>30</u>	80	SCL	10YR4/3			15		52	52	n	n				
		80	120	Mst						20	0						
										Total	123	103					
										MD	39	32					
										Droughtiness grade (DR)	1	1					
20	T	0	28	hCL	10YR5/3			5	-	48	48	n	n	/	3a	3a	We
		28	35	mCL	10YR5/3	och	fmd	15		10	10	n	n				
		<u>35</u>	80	mCL	10YR5/3	och	fmd	30		39	40	n	n				
		80	120	Mst						20	0						
										Total	116	98					
										MD	32	27					
										Droughtiness grade (DR)	1	1					

T/s as sample

21	T	0	30	mCL	10YR5/3		5	-	51	51	n	n	/	2	2	WE	
		<u>30</u>	80	mCL	10YR5/2		15		53	55	n	n					
		80	120	Mst					20	0							
										Total	125	106					
								MD	41	35							
									Droughtiness grade (DR)		1	1					
22	T	0	28	SCL	10YR5/3		5	-	45	45	n	n	/	2	2	WE DR	
		28	50	SCL	10YR5/2	och	fmd	15		28	28	n	n				
		<u>50</u>	80	SCL	10YR5/2	och	fmd	50		16	16						
		80	120	Mst					20	0							
								Total	109	90							
								MD	25	19							
									Droughtiness grade (DR)		2	1					
23	T	0	33	SCL	10YR5/3		5	-	53	53	n	n	/	2	2	WE DR	
		33	45	SCL	10YR5/2	och	fmd	10		16	16	n	n				
		<u>45</u>	80	SCL	10YR5/2	och	fmd	50		20	20	n	n				
		80	120	Mst					20	0							
								Total	110	90							
								MD	26	19							
									Droughtiness grade (DR)		2	1					
24	T	0	23	hCL	10YR4/3		10		37	37	n	n	/	3a	3a	WE	
		23	27	mCL	7.5YR4/3		20		5	5	n	n					
		<u>27</u>	80	mCL	7.5YR4/3		20		54	56	n	n					
		80	120	Mstone					20	0							
								Total	117	99							
								MD	33	28							
									Droughtiness grade(DR)		1	1					
25	T	0	20	hCL	10YR4/3		10		33	33	n	n	/	3a	3a	WE	
		<u>20</u>	30	hCL	10YR4/3		10		15	15	n	n					

		30	80	hCL	7.5YR4/3			20		50	52	n	n				
		80	120	Mstone						20	0						
									Total	117	99						
									MD	33	28						
									Droughtiness grade(DR)	1	1						
26	T	0	28	hCL	10YR4/3			10		46	46	n	n	/	3a	3a	WE
		28	32	hCL	10YR4/3			10		6	6	n	n				
		<u>32</u>	80	hCL	7.5YR4/3			20		48	49	n	n				
		80	120	Mstone						20	0						
									Total	119	101						
									MD	35	30						
									Droughtiness grade(DR)	1	1						
27	T	0	30	C	7.5YR4/3			5		49	49	n	n	/	3b	3b	WE
		<u>30</u>	80	C	7.5YR4/3			20		46	52	n	n				
		80	120	Mstone						20	0						
									Total	114	101						
									MD	30	30						
									Droughtiness grade(DR)	1	1						
28	T	0	25	mCL	10YR5/3			5	-	43	43	n	n	/	2	2	DR
		<u>25</u>	80	SCL	10YR5/3	och	mmd	15		58	58	n	n				
		80	120	Mst						20	0						
									Total	121	101						
									MD	37	30						
									Droughtiness grade (DR)	1	1						
29	T	0	28	mCL	10YR4/4			5		48	48	n	n	/	2	2	WE
		28	30	mCL	7.5YR4/3			20		3	3	n	n				
		<u>30</u>	80	mCL	7.5YR4/3			20		50	52	n	n				
		80	120	Mstone						20	0						
									Total	121	103						

								MD	37	32									
								Droughtiness grade(DR)	1	1									
30	T	0	35	mCL	10YR5/3		5	-	60	60	n	n	/	2	2				WE
		<u>35</u>	80	SCL	10YR5/3	och	mmd	15	45	45	n	n							
		80	120	Mst					20	0									
								Total	125	105									
								MD	41	34									
								Droughtiness grade (DR)	1	1									
31	T	0	25	mCL	10YR5/3		5	-	43	43	n	n	/	2	2				WE
		25	42	mCL	10YR5/3		15		23	23	n	n							
		<u>42</u>	80	mCL	10YR5/3		30		31	32	n	n							
		80	120	Mst	10YR5/3				20	0									
								Total	117	98									
								MD	33	27									
								Droughtiness grade (DR)	1	1									
32	T	0	30	hCL	7.5YR4/3		5		51	51	n	n	/	3a	3a				WE
		<u>30</u>	80	hCL	7.5YR4/3		20		50	52	n	n							
		80	120	Mstone					20	0									
								Total	122	103									
								MD	38	32									
								Droughtiness grade(DR)	1	1									
33	T	0	50	hCL	7.5YR4/3		10		82	82	n	n	/	3a	3a				WE
		50	70	hCL	7.5YR5/3		20		16	26	n	n							
		<u>70</u>	120	hCL	7.5YR5/3		20		41	0	n	n							
								Total	138	108									
								MD	54	37									
								Droughtiness grade(DR)	1	1									
34	T	0	30	hCL	10YR5/3	och	fmd	5	-	51	51	n	n	/	3a	3a			We
		30	42	SCL	10YR4/3	och	mmd	15		15	15	n	n						
		<u>42</u>	80	SCL	10YR4/3	och	mmd	30		30	30	n	n						

		80	120	Mst						20	0								
									Total	117	97								
									MD	33	26								
									Droughtiness grade (DR)	1	1								
35	T	0	30	mCL	10YR5/3	och	fmd	5	-	51	51	n	n	///	3a	3a		We	
		30	45	SCL	10YR5/3	och	mmd	15		19	19	y	n						
		<u>45</u>	80	SCL	10YR5/3	och	mmd	20		30	31	y	n						
		80	120	Mst						20	0								
									Total	121	101								
									MD	37	30								
									Droughtiness grade (DR)	1	1								
36	T	0	48	mCL	10YR 4/3			5		82	82	n	n	/	2	2		WE	
		48	56	hCL	10YR 5/4			30		7	9	n	n						
		<u>56</u>	80	hCL	10YR 5/4			30		17	16	n	n						
		80	120	Mstone						20	0								
									Total	126	108								
									MD	42	37								
									Droughtiness grade(DR)	1	1								
P2	T	0	20	hCL	10YR4/3			5		34	34	n	n	/	3a	3a		WE	
		20	45	hCL	10YR4/3			20		33	33	n	n						
		45	50	hCL	10YR5/4			60		4	4	n	n						
		<u>50</u>	80	hCL	10YR5/4			60		13	14	n	n						
		80	120	Mstone						20	0								
									Total	103	84								
									MD	19	13								
									Droughtiness grade(DR)	2	1								
37	T	0	20	C	7.5YR3/3			2		33	33	n	n	/	3b	3b		WE	
		20	24	hCL	7.5YR4/2			20		5	5	n	n						
		<u>24</u>	80	hCL	7.5YR4/2			20		58	60	n	n						
		80	120	Mstone						20	0								

										Total	117	98				
										MD	33	27				
										Droughtiness grade(DR)	1	1				
38	T	0	46	mCL	7.5YR4/4	10	75	75	n	n	/	2	2	WE		
		46	70	C	7.5YR5/4	20	18	31	n	n						
		<u>70</u>	120	C	7.5YR5/4	20	33	0	n	n						
										Total	126	106				
										MD	42	35				
										Droughtiness grade(DR)	1	1				
39	T	0	35	mCL	7.5YR4/4	10	75	75	n	n	/	2	2	WE		
		<u>35</u>	70	C	7.5YR5/4	20	18	31	n	n						
		70	120	C	7.5YR5/4	20	33	0	n	n						
										Total	126	106				
										MD	42	35				
										Droughtiness grade(DR)	1	1				

Wetness / workability limitations are determined according to the methodology given in Appendix 3 of the ALC guidelines, MAFF 1988

Droughtiness calculations are made according to the methodology given in Appendix 4 of the ALC guidelines, MAFF 1988.

Grades are shown for drought, wetness and any other soil or site factors which are relevant. The overall Grade is set by the most limiting factor and shown on the right.

Stone types		
%	TAv	Eav
hard	1	0.5

Climate Data	
MDwheat	82
MDpotato	68

Wetness Class Guidelines				
	<i>II</i>	<i>III</i>	<i>IV</i>	<i>V</i>
SPL within 80cm, gleying within 40cm		>59cm	<59cm	
SPL within 80cm, gleying at 40-70cm		>79cm	<79cm	
No SPL but gleying within 40cm	coarse subsoil	<i>II</i>	other cases	<i>III</i>

hard flint & pebble

Maximum depth of auger penetration is underlined

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% mm	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
40	0	25	SCL	10YR5/3	och	fmd	5	41	41	n	n	/	2	2	WE		
	<u>25</u>	80	SCL	10YR5/3			15	58	58	n	n						

80 120 Mst

									20	0						
								Total	118	99						
								MD	36	31						
								Droughtiness grade (DR)	1	1						
41	T	0	33	mCL	10YR4/4		25		45	45	n	n	/	2	3b	ST
		33	45	C	7.5YR4/6		25		15	15	n	n				
		45	50	C	7.5YR5/3		40		5	5	n	n				
		<u>50</u>	120	C	7.5YR5/3		40		35	20	n	n				
								Total	100	85						
								MD	16	14						
								Droughtiness grade(DR)	2	1						
42	T	0	38	mCL	7.5YR4/4		5		65	65	n	n	/	2	2	WE
		38	60	C	7.5YR5/6		20		22	29	n	n				
		<u>60</u>	120	C	7.5YR5/6		25		37	12	n	n				
								Total	124	106						
								MD	40	35						
								Droughtiness grade(DR)	1	1						
43	T	0	25	mCL	10YR5/3	och	ffd	10	41	41	n	n	/	2	2	DR
		25	60	SCL	7.5YR4/6	och	fmd	15	41	45	n	n				
		<u>60</u>	80	SCL	7.5YR4/6	och	fmd	15	17	13	n	n				
		80	120	Mst	10YR5/3			50	11	0						
								Total	110	99						
								MD	28	31						
								Droughtiness grade (DR)	2	1						
44	T	0	26	mCL	7.5YR4/4		25		36	36	n	n	/	2	2	WE
		26	36	C	7.5YR5/6		20		13	13	n	n				
		<u>36</u>	120	C	7.5YR5/6		25		60	42	n	n				
								Total	109	90						
								MD	27	22						
								Droughtiness grade(DR)	2	1						

45	T	0	30	hCL	7.5YR4/4	20		44	44	n	n	/	3a	3a	WE
		30	40	C	7.5YR5/6	25		12	12	n	n				
		<u>40</u>	120	C	7.5YR5/6	25		55	37	n	n				
						Total		111	93						
				MD		29	25								
						Droughtiness grade(DR)		2	1						
46	T	0	35	mCL	10YR5/3	10	-	57	57	n	n	/	2	2	WE
		35	48	hCL	10YR5/2	25		16	16	n	n				
		<u>48</u>	80	hCL	10YR5/2	25		25	27	n	n				
		80	120	Mst				20	0						
				Total		118	100								
				MD		36	32								
						Droughtiness grade (DR)		1	1						
47	T	0	30	mCL	10YR5/3	10	-	49	49	n	n	/	2	2	WE
		30	45	hCL	10YR5/2	25		18	18	n	n				
		<u>45</u>	80	hCL	10YR5/2	25		29	31	n	n				
		80	120	Mst				20	0						
				Total		116	98								
				MD		34	30								
						Droughtiness grade (DR)		1	1						
48	T	0	26	hCL	10YR4/3	20		38	38	n	n	/	3a	3a	WE
		26	50	C	7.5YR5/6	20		31	31	n	n				
		<u>50</u>	120	C	7.5YR5/6	25		43	25	n	n				
				Total		112	94								
				MD		30	26								
						Droughtiness grade(DR)		1	1						
49	T	0	30	hCL	10YR4/2	15		46	46	n	n	/	3a	3a	WE
		30	75	hCL	2.5Y5/6	20		46	52	n	n				
		75	85	hCL	2.5Y6/4	20		8	0	n	n				

		85	120	hCL		2.5Y6/4		20		28	0	n	n				
									Total	129	98						
									MD	47	30						
									Droughtiness grade(DR)		1	1					
50	T	0	33	mCL		10YR4/2		5	-	60	60	n	n	///	3a	3a	we
		33	45	SCL		10YR5/3	och	mmd		45	45	y	n				
		45	80	SCL		10YR5/3	och	mfd		11	0	y	n				
		80	120	Mst						11	0						
									Total	116	105						
									MD	34	37						
									Droughtiness grade (DR)		1	1					
51	T	0	25	mCL		10YR4/2		5	-	43	43	n	n	/	2	2	WE DR
		25	35	SCL		10YR6/6	och	mmd		13	13	n	n				
		35	80	SCL		10YR6/6	och	mmd		33	33	n	n				
		80	120	Mst						20	0						
									Total	108	89						
									MD	26	21						
									Droughtiness grade (DR)		2	1					
52	T	0	38	mCL		10YR4/2		15	-	59	59	n	n	///	3a	3a	WE
		38	40	hCL		10YR5/2	och	mmd		2	2	y	n				
		40	80	hCL		10YR5/2	och	mmd		29	30	y	n				
		80	120	Mst						20	0						
									Total	110	91						
									MD	28	23						
									Droughtiness grade (DR)		2	1					
53	T	0	35	hCL		7.5YR4/2		5		60	60	n	n	/	3a	3a	WE
		35	60	C		2.5Y6/4		20		26	33	n	n				
		60	120	C		2.5Y6/4		20		39	13	n	n				
									Total	125	106						

									MD	43	38								
									Droughtiness grade(DR)	1	1								
54	T	0	30	mCL	10YR4/3		5	-	51	51	n	n	/	2	2				WE
		30	50	hCL	10YR6/6	och	mff	15	28	28	n	n							
		<u>50</u>	80	hCL	10YR6/6	och	mff	40	19	20	n	n							
		80	120	Mst					11	0									
									Total	109	99								
									MD	27	31								
									Droughtiness grade (DR)	2	1								
55	T	0	30	mCL	10YR4/2		5	-	51	51	n	n	///	3a	3a				WE
		30	65	hCL	5YR5/3	och	mmd	10	43	51	y	n							
		<u>65</u>	80	hCL	5YR5/3	och	mmd	30	11	6	y	n							
		80	120	Mst					11	0									
									Total	116	108								
									MD	34	40								
									Droughtiness grade (DR)	1	1								
56	T	0	35	mCL	10YR4/2		10	-	57	57	n	n	///	3a	3a				WE
		35	50	hCL	10YR5/2	och	mmd	20	20	20	y	n							
		<u>50</u>	80	hCL	10YR5/2	och	mmd	40	19	20	y	n							
		80	120	Mst					20	0									
									Total	115	97								
									MD	33	29								
									Droughtiness grade (DR)	1	1								
57	T	0	25	mCL	10YR5/3		5		43	43	n	n	///	3a	3a				WE
		25	30	C	10YR5/3	och	mfd	20	7	7	y	n							
		<u>30</u>	80	C	10YR5/3	och	mfd	20	46	52	y	n							
		80	120	Mstone					20	0									
									Total	115	101								
									MD	33	33								
									Droughtiness grade(DR)	1	1								

58	T	0	30	mCL	10YR4/3			2	53	53	n	n	/	2	2	WE
		30	36	hCL	10YR5/4	och	cff	40	6	6	n	n				
		<u>36</u>	80	hCL	10YR5/4	och	cff	40	33	34	n	n				
		80	120	Mstone					20	0						
									Total	112	93					
									MD	30	25					
									Droughtiness grade(DR)	1	1					
59	T	0	30	hCL	10YR4/2			5	51	51	n	n	/	3a	3a	WE
		<u>30</u>	80	hCL	10YR5/4			30	44	46	n	n				
		80	120	Mstone					20	0						
										Total	116	97				
									MD	34	29					
									Droughtiness grade(DR)	1	1					
60	T	0	25	hCL	10YR4/2			5	43	43	n	n	/	3a	3a	WE
		25	46	C	10YR5/6			25	26	26	n	n				
		<u>46</u>	80	C	10YR5/6			30	22	28	n	n				
		80	120	Mstone					20	0						
									Total	110	96					
									MD	28	28					
									Droughtiness grade(DR)	2	1					
61	T	0	25	mCL	10YR4/3			10	41	41	n	n	/	2	2	WE
		<u>25</u>	80	C	10YR5/6			30	46	52	n	n				
		80	120	Mstone					20	0						
										Total	107	93				
									MD	25	25					
									Droughtiness grade(DR)	2	1					
62	T	0	30	mCL	10YR4/3			10	49	49	n	n	/	2	2	WE
		30	45	hCL	10YR5/4			40	15	15	n	n				
		<u>45</u>	80	hCL	10YR5/4			40	24	25	n	n				
										Total	107	93				
									MD	25	25					
									Droughtiness grade(DR)	2	1					

		80	120	Mstone						20	0						
									Total	108	89						
									MD	26	21						
									Droughtiness grade(DR)	2	1						
63	T	0	40	mCL	10YR4/4			10		65	65	n	n	/	2	2	WE
		40	50	hCL	10YR5/4			20		13	13	n	n				
		<u>50</u>	120	hCL	10YR5/4			20		57	26	n	n				
									Total	135	104						
									MD	53	36						
									Droughtiness grade(DR)	1	1						
64	T	0	30	mCL	10YR4/2			5	-	51	51	n	n	/	2	2	WE
		30	40	hCL	10YR6/6			10		15	15	n	n				
		<u>40</u>	80	hCL	10YR6/6			30		33	35	n	n				
		80	120	Mst						20	0						
									Total	119	100						
									MD	37	32						
									Droughtiness grade (DR)	1	1						
65	T	0	20	mCL	10YR4/2			5	-	34	34	n	n	///	3a	3a	WE
		20	35	hCL	10YR5/2	och	mmd	15		21	21	y	n				
		<u>35</u>	80	hCL	10YR5/2	och	mmd	30		39	40	y	n				
		80	120	Mst						20	0						
									Total	114	95						
									MD	32	27						
									Droughtiness grade (DR)	1	1						
66	T	0	30	hCL	10YR4/2			10		49	49	n	n	/	3a	3a	WE
		30	45	C	10YR4/4	och	cmp	10		22	22	n	n				
		<u>45</u>	60	C	10YR4/4	och	cmp	10		15	22	n	n				
		60	120	Mstone						30	8						
									Total	115	100						

													MD	33	32					
As 40													Droughtiness grade(DR)		1	1				
67	T	0	30	mCL	10YR4/2			7	-	50	50	n	n	///	3a	3a	WE			
		30	48	hCL	10YR5/2	och	mmd	15		25	25	y	n							
		<u>48</u>	80	hCL	10YR5/2	och	mmd	30		24	25	y	n							
		80	120	Mst						20	0									
										Total	119	100								
													MD	37	32					
													Droughtiness grade (DR)		1	1				
68	T	0	35	hCL	10YR4/2			10		57	57	n	n	/	3a	3a	WE			
		35	60	C	10YR6/6	och	cfD	10		29	36	n	n							
		<u>60</u>	120	Mstone	2.5YR5/6					30	8	n	n							
										Total	116	101								
													MD	34	33					
													Droughtiness grade(DR)		1	1				
69	T	0	25	mCL	10YR4/4			10		41	41	n	n	/	2	2	WE			
		<u>25</u>	60	C	10YR6/6	och	cfD	30		35	40	n	n							
		25	120	Mstone	10YR4/4					55	36	n	n							
										Total	130	117								
													MD	48	49					
													Droughtiness grade(DR)		1	1				
70	T	0	30	mCL	10YR4/2			10	-	49	49	n	n	/	2	2	WE			
		30	48	hCL	5YR5/4			15		25	25	n	n							
		<u>48</u>	80	hCL	5YR5/4			30		24	25	n	n							
		80	120	Mst						20	0									
										Total	117	99								
													MD	35	31					
													Droughtiness grade (DR)		1	1				

Appendix 3: Site Photographs

Pit 1

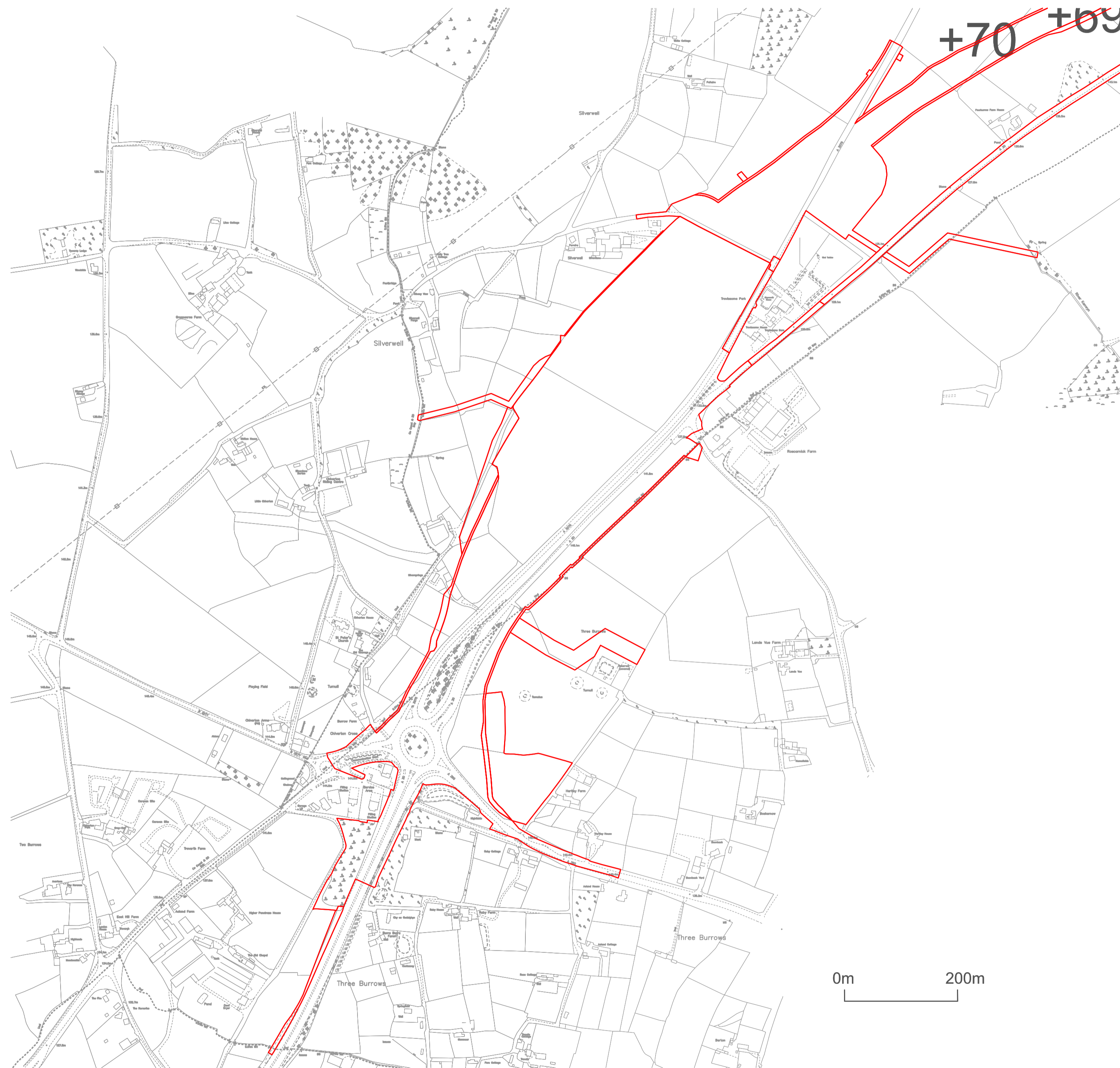


Pit 2



Stone content at Observation 41





- Survey area
- +1 Observations
- +P Pit

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Rev.	Comment	Date
Drawing title OBSERVATIONS PART 1/4		
Contract WSP PARSONS BRINCKERHOFF A30 CHIVERTON TO CARLAND CROSS		
Reading Agricultural Consultants Ltd Gate House Beechwood Court Long Toll Woodcote RG8 0RR 01491 684233		
www.readingagricultural.co.uk 		
Ref. RAC/7538/1	Rev. REV. 2	
Drawn by AGM	Checked by AIF	
Scales 1:5,000@A1	Date 16/08/2018	



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0m 200m

- Survey area
- +1 Observations
- +P Pit

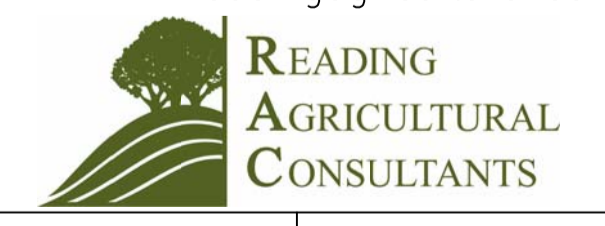
Rev.	Comment	Date

Drawing title
OBSERVATIONS
PART 2/4

Contract
WSP PARSONS
BRINCKERHOFF
A30 CHIVERTON TO
CARLAND CROSS

Reading Agricultural Consultants Ltd
Gate House
Beechwood Court
Long Toll
Woodcote
RG8 0RR
01491 684233

www.readingagricultural.co.uk



Ref. RAC/7538/2	Rev. REV. 2
Drawn by AGM	Checked by AIF
Scales 1:5,000@A1	Date 16/08/2018

- Survey area
- +1 Observations
- +P Pit

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0m 200m

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PART 3/4

Contract
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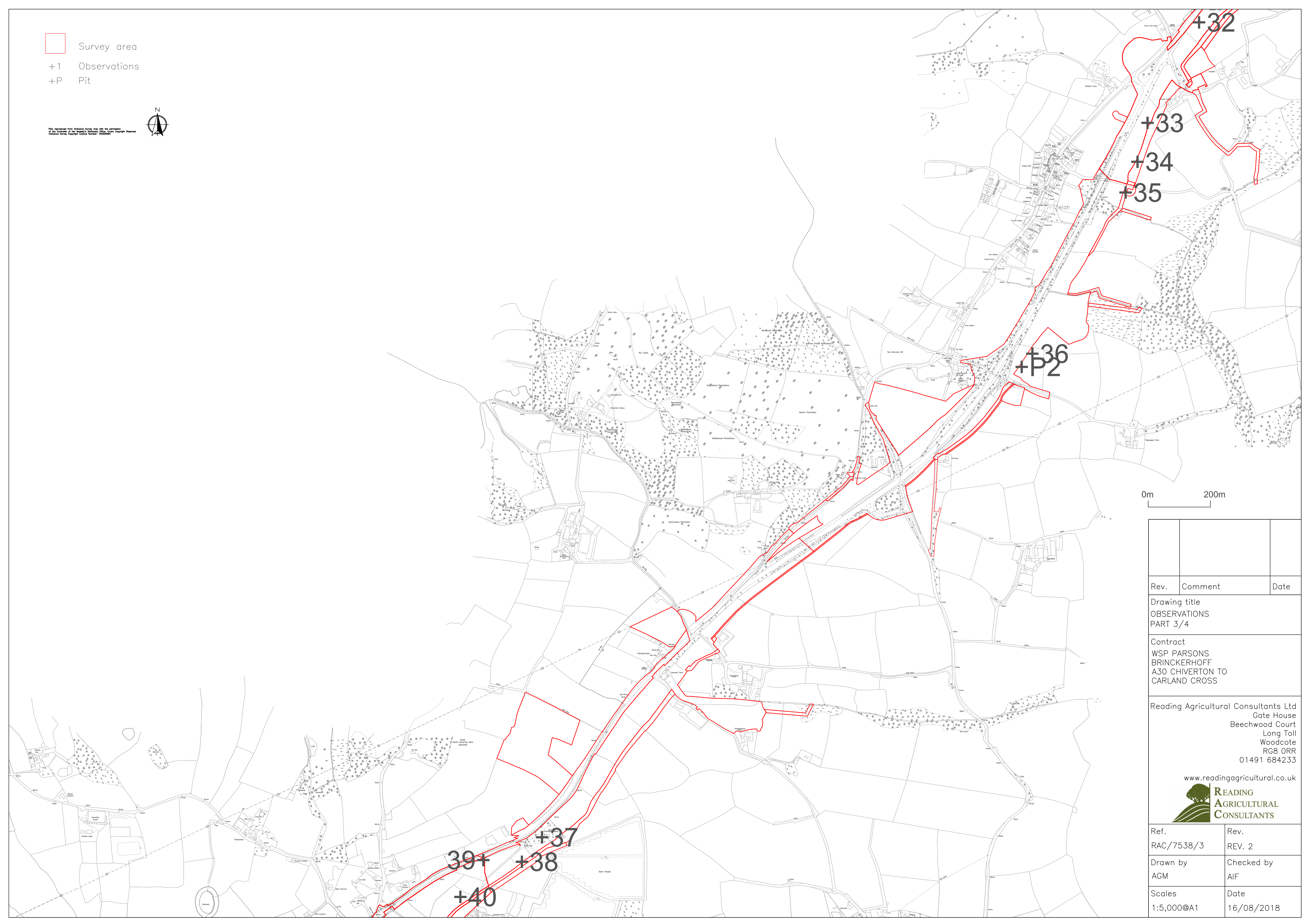
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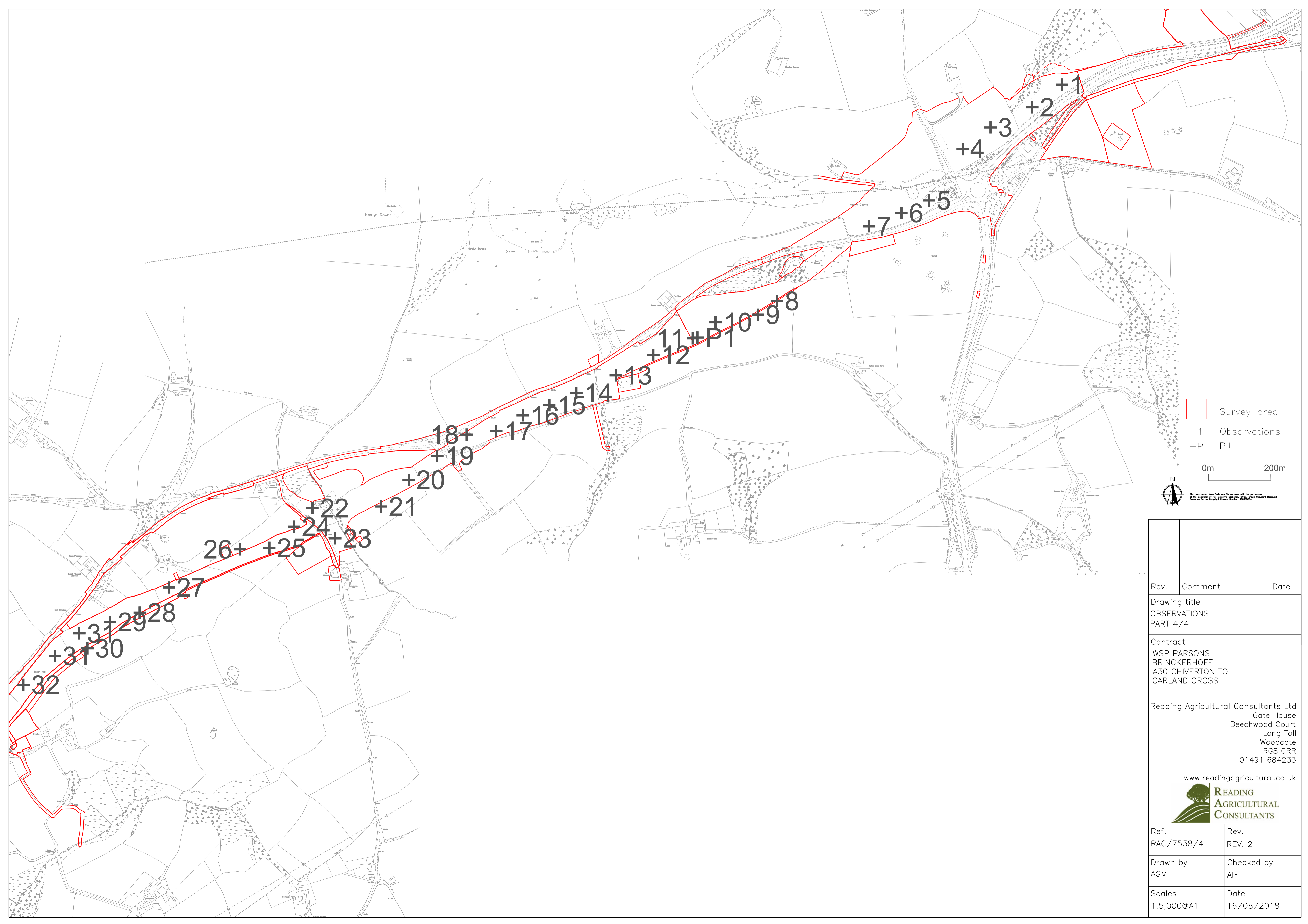


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Survey area
 +1 Observations
 +P Pit

0m 200m

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- Grade 1 ■
- Grade 2 ■
- Grade 3a ■
- Grade 3b ■
- Grade 4 ■
- Grade 5 ■
- Non-agricultural ■
- Not present *

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0m 200m



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 AGRICULTURAL LAND CLASSIFICATION
 PART 2/4









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- Grade 1
- Grade 2
- Grade 3a
- Grade 3b
- Grade 4
- Grade 5
- Non-agricultural
- Not present

- Grade 1 
- Grade 2 
- Grade 3a 
- Grade 3b 
- Grade 4 
- Grade 5 
- Non-agricultural 
- Not present 



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0m 200m

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 AGRICULTURAL LAND CLASSIFICATION
 PART 3/4

Contract
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 A30 CHIVERTON TO
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Reading Agricultural Consultants Ltd
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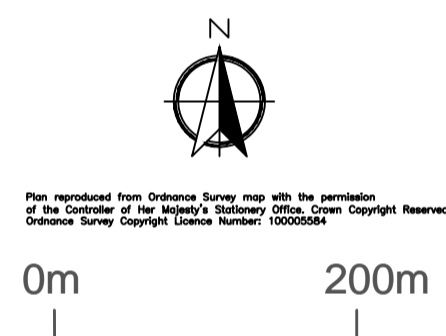


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- Grade 1 ■
- Grade 2 ■
- Grade 3a ■
- Grade 3b ■
- Grade 4 ■
- Grade 5 ■
- Non-agricultural ■
- Not present



Rev.	Comment	Date

Drawing title
 AGRICULTURAL LAND CLASSIFICATION
 PART 4/4

Contract
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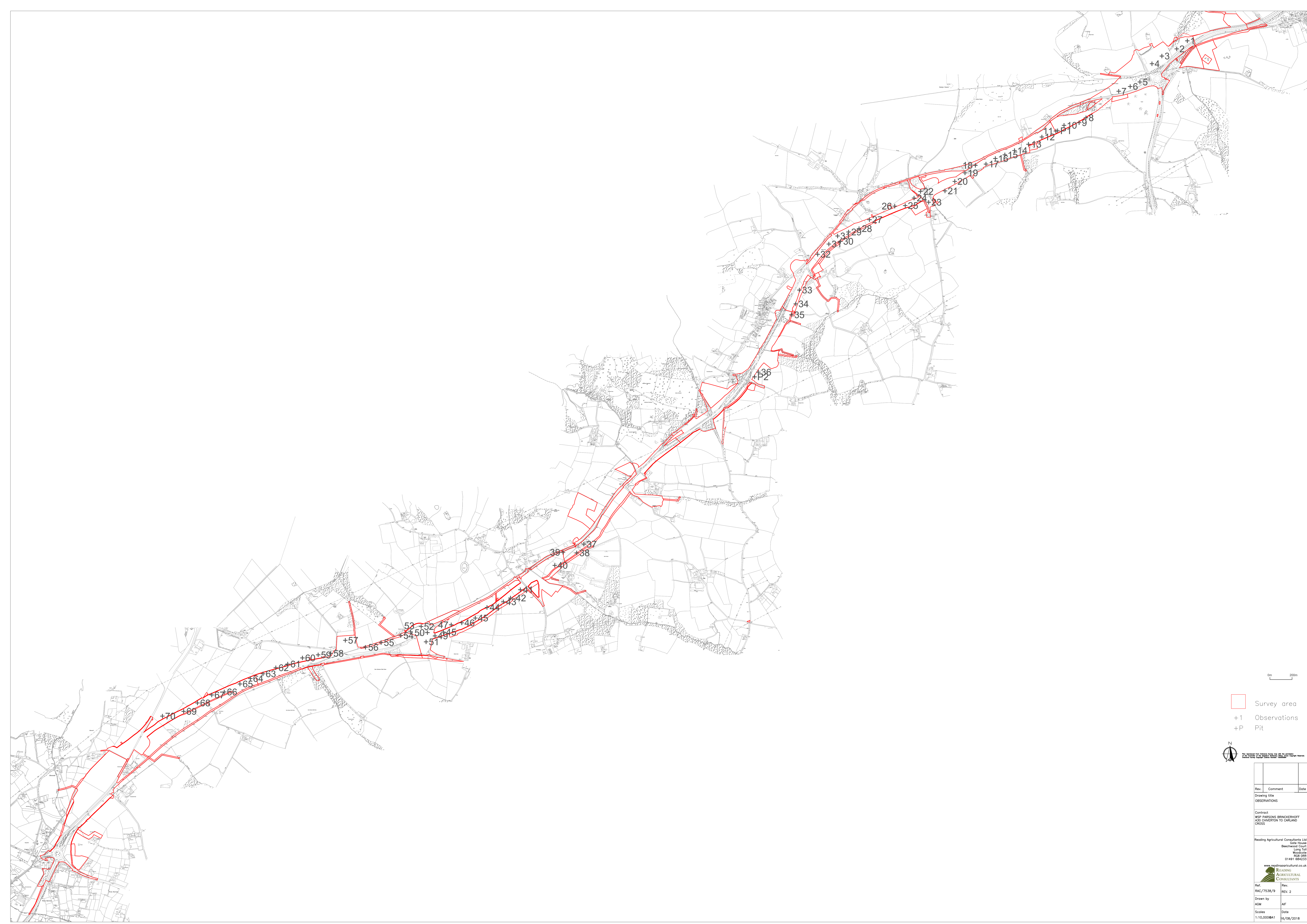
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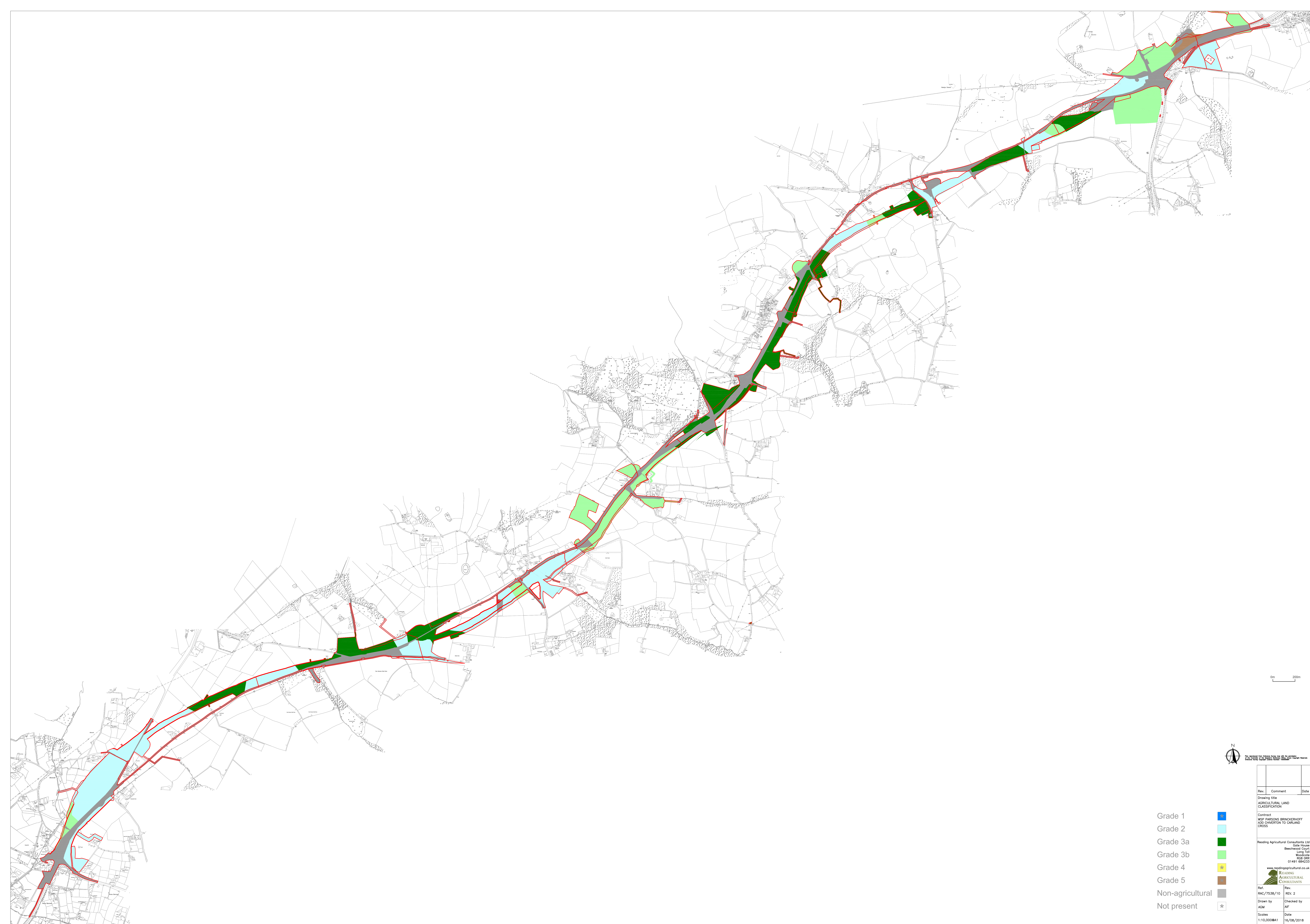
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Survey area
 +1 Observations
 +P Pit

N

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0m 200m

- Grade 1
- Grade 2
- Grade 3a
- Grade 3b
- Grade 4
- Grade 5
- Non-agricultural
- Not present

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