#### ARCHAEOLOGICAL FIELD EVALUATION REPORT LAND OFF NORBECK LANE, WELTON, LINCOLNSHIRE

Site Code:NLW98LCNCC Acc No.221.98NGRTF 0081 7971

Trench

uppl 96/P/0386 House

98/21

Lincolnshire County County Archaeology Section

1 A. DEC 98 ack sent 16/12/98 accepted 14/1/99



PCA NLW98 welton by Lincoln Evoluction - Trial trendles. Phase 1 - 10-11 post bilt structure sill-beamed at stave bilt didy cobbled your late soxan predecessor of Prebandal manor of westhall? Phase 2 - (13-(14 stare wall connected with Westhall manor -Finds - fragment of basestade - see 8.3.

GERT LI3553 Sankces LI8282 LI8283 54787 L183387 GMD 52143 MD

1 4. 050 98

#### Summary

htroduction

#### ARCHAEOLOGICAL FIELD EVALUATION REPORT LAND OFF NORBECK LANE, WELTON, LINCOLNSHIRE

Site Code: NLW98 LCNCC Acc No. 221.98 NGR TF 0081 7971

uppel 96/P/0386 named Sapen House

and Catelunion

and the second sec

1. Posters and the analysis by J Young

I have a some archive by DJ Rasidau

1.2 Service 1 ands archive by ) Convert

and the second

and the second second

and the second sec

Report prepared for Lincs. County Council by James Albone BSc., PIFA. November 1998

Pre-Construct Archaeology (Lincoln) 61 High Street Newton on Trent Lincoln LN1 2JP Tel. & Fax. 01777 228155 Lincolnshire County Council Archaeology Section

1 6. DEC 98

## Contents

	Summary	1
1.0	Introduction	2
2.0	Location and description	2
3.0	Archaeological and Historical background	2
4.0	Objectives and methodology	3
5.0	Results	4
	5.1 Trench 1 5.2 Trench 2 5.3 Trench 3	4 5 6
6.0	Discussion and Conclusion	8
7.0	Acknowledgements	9
8.0	Appendices	10
	<ul> <li>8.1 Pottery and tile analysis by J Young</li> <li>8.2 Animal bone archive by DJ Rackham</li> <li>8.3 Registered finds archive by J Cowgill</li> <li>8.4 References</li> <li>8.5 Site archive</li> </ul>	

8.6 List of contexts

pl

8.7 Colour plates

#### Illustrations

Fig. 1 General site location (1:10,000)

H

- Fig. 2 Plan showing location of archaeological trenches
- Fig. 3 Plan and section of features exposed in Trench 1
- Fig. 4 Plan and sections of features exposed in Trench 2
- Fig. 5 Plan and sections of features exposed in Trench 2

Fig. 1: Site location (1:10,000)

Ū

#### Summary

An archaeological field evaluation took place on land west of Norbeck Lane, Welton, Lincolnshire (Fig. 1). Three trenches were excavated to establish the archaeological potential of the site, which lay close to a known Anglo-Saxon cemetery and within the West Yard of the medieval Prebendal manor of Westhall.

- Two discrete phases of activity were encountered, dating between the 10th to 11th and 13th to 14th centuries. Part of a post-built structure, which was cut through an 11th century pit, was exposed in Trench three. Two sill-beamed or stave-built structures, one sealed below a 10th to 11th century cobbled surface, were tentatively identified in Trench one. These remains probably relate to a late Saxon precursor to Westhall manor.
- A stone wall associated with an iron hinge pivot and 13th to 14th century tiles was exposed in Trench two and presumably relates in some way to the Prebendal manor.

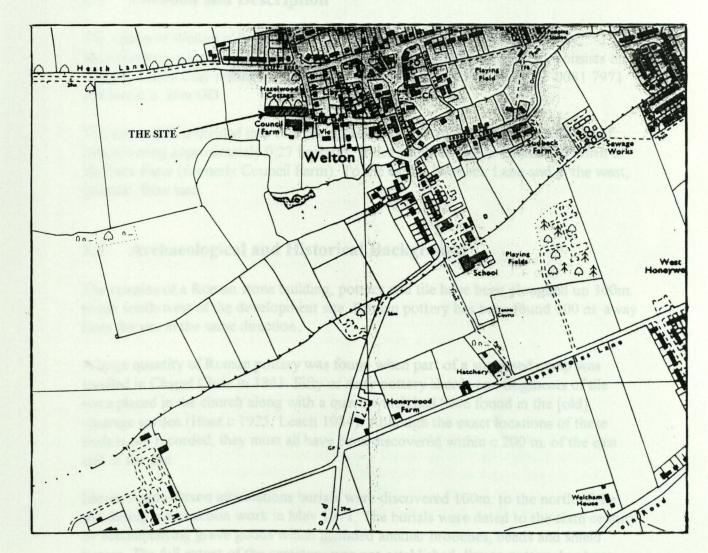


Fig. 1: Site location (1:10,000) (OS Copyright Licence No: AL 515 21 A0001)

## 1.0 Introduction

A four day programme of archaeological trial excavation was carried out on a site west of Norbeck Lane, Welton, Lincolnshire (Fig. 1). The work was commissioned by Lincolnshire County Council Property Division.

The results of this report will assist the local planning authority to assess the archaeological significance of the site, the potential impacts which may be imposed by development and the requirement / non-requirement for further archaeological investigation in advance of or during development.

A copy of this report will be deposited at the County SMR, and a short text will be submitted to the editor of the county journal, *Lincolnshire History and Archaeology*; effectively placing the information in the public domain. Reports will be deposited at the City and County Museum, Lincoln, accompanied with an ordered project archive.

## 2.0 Location and Description

The village of Welton is situated in the administrative district of West Lindsey, approximately 6 km. north-north-east of Lincoln. The underlying geology consists of Jurassic Tealby Clay resting on limestone. The site is centred on NGR TF 0081 7971 and lies at c. 26m OD.

The site, which is divided into two parts, consists of an east to west aligned strip of land covering approximately 0.27 hectares. It lies south of Saxon House and north of Norbeck Farm (formerly Council Farm). To the east is Norbeck Lane and in the west, pastoral farm land.

## 3.0 Archaeological and Historical Background

The remains of a Roman stone building, pottery and tile have been ploughed up 300m. to the south-west of the development site. Roman pottery has been found 100 m. away from the site in the same direction.

A large quantity of Roman pottery was found when part of a supposed camp was levelled in Chapel Close in 1863. Fifty or sixty pottery sherds and fragments of tile were placed in the church along with a quern which had been found in the [old] vicarage garden (Hunt c.1925; Leach 1984). Although the exact locations of these finds is not recorded, they must all have been discovered within c.200 m. of the east end of the site.

Eleven Anglo-Saxon inhumations burials were discovered 100m. to the north of the site during construction work in May 1971. The burials were dated to the sixth century by accompanying grave goods which included annular brooches, beads and shield bosses. The full extent of the cemetery was not established. Saxon pottery has been found 100m. to the south-west of the development site. A further thirteen

inhumations were found behind council houses on Norbeck Lane in 1963 (c.50m. east of the site). Although these were undated, some of the burials were below stone slabs and it is likely that they were of Roman or medieval, rather than Anglo-Saxon, date.

The place-name Welton refers to the *tun* or enclosure by the spring or stream (Ekwall 1989, 505). Following the Norman Conquest the manorial land at Welton (formerly held by Sveinn) was given to Bishop Remigus of Lincoln for its six prebends. The six canons or prebendaries were the rectors of Welton and the prebendal manors provided their endowment (Leach 1984, 9). By the time of the Domesday Survey in 1086, Welton had become established as an important manor.

The six prebendal manors of Welton were West Hall, Gore Hall, Beck Hall, Rive Hall Pans Hall and Brink Hall (Everson et al 1991, Fig.19). The development site lies within Westhall manor. This manor was divided into three yards; West yard (which the site extends along the southern boundary of), Chapel yard and Dove yard (Everson et al 1991, 210). It was noted during the evaluation that West yard survives as a raised area of ground (see Pls 1 & 2). This had also been observed when the Anglo-Saxon cemetery was discovered when it was noted that the field was, 'raised and almost moated, and would appear to have been divided into four crofts'. The remains of a medieval or post-medieval stone building and fifteenth to sixteenth century tiles were found in the northern part of this yard during the construction of Saxon House. No traces of the land divisions within the yard remain were observed during the evaluation.

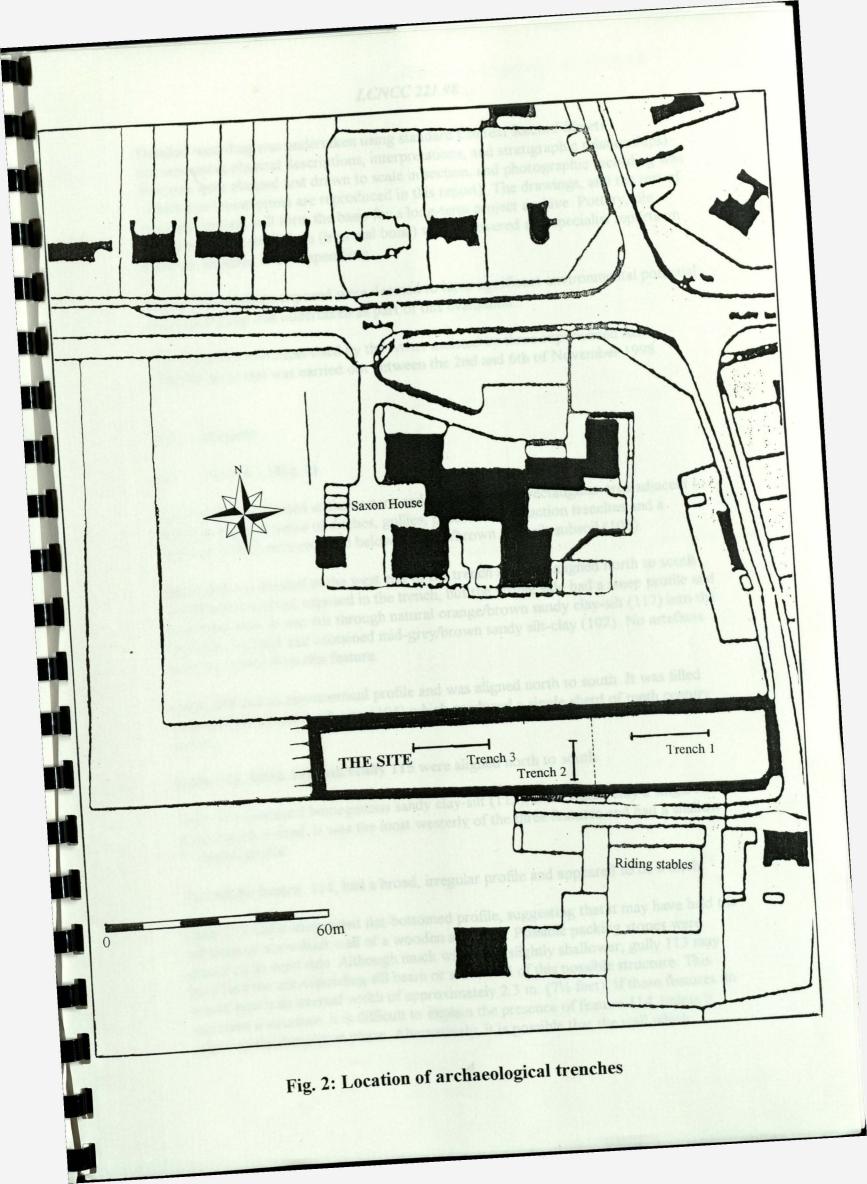
Further evidence of medieval activity in the vicinity of the site include fishpond remains to the south (Everson et al 1991, 210) and fourteenth century pottery found on Norbeck Lane. St. Mary's Church, which lies c.300m. to the east of the site, retains some thirteenth and fourteenth century elements despite extensive rebuilding between the late eighteenth and early twentieth centuries (Pevsner et al 1995, 787).

## 4.0 Objectives and Methodology

The site lies within close proximity of the known Saxon cemetery and possibly also settlement remains of this period and later. In view of this it was considered possible that important archaeological remains would survive within the site.

Archaeological trial trenching was considered to be the most appropriate method of evaluating the site. The Assistant County Archaeologist for Lincolnshire approved a specification for three archaeological trenches to determine the nature of the archaeology (its character, date, depth, state of preservation, extent and significance). Only by sampling a percentage of the site could the actual archaeological potential be fully addressed. The overall objective of this phase of work, therefore, was to present both the client and the District Planning Authority with a set of data from which reasoned decisions may be taken regarding future management of the archaeological resource.

the 1 location of an 3 sectorical transhes



Detailed recording was undertaken using standard Context Record Sheets (incorporating physical descriptions, interpretations, and stratigraphic relationships). Features were planned and drawn to scale in section, and photographic recording was undertaken (some prints are reproduced in this report). The drawings, and the rest of the paper record, will form the basis for a long-term project archive. Pottery, tile, animal bone and small finds (iron and bone) were recovered and specialist reports on these are included in the appendices.

None of the deposits exposed were deemed to have significant environmental potential and no sampling was undertaken as part of this evaluation.

The evaluation was supervised by the writer assisted by three experienced field archaeologists and was carried out between the 2nd and 6th of November 1998

## 5.0 Results

Ι

## 5.1 Trench 1 (Fig. 3)

This trench was located at the eastern end of the site on a rectangular area adjacent to Norbeck Lane. A series of ditches, gullies, possible construction trenches and a cobbled surface were revealed below the grey/brown clay-silt subsoil (101).

**Ditch 103** was located at the west end of the trench and was aligned north to south. Its full width was not exposed in the trench, but the visible side had a steep profile and a rounded base. It was cut through natural orange/brown sandy clay-silt (117) into the limestone bedrock and contained mid-grey/brown sandy silt-clay (102). No artefacts were recovered from this feature.

Gully 105 had an asymmetrical profile and was aligned north to south. It was filled with mid-brown sandy silt-clay (104) which produced a single sherd of tenth century pottery.

Gully 113, Ditch 114 and Gully 115 were aligned north to south.

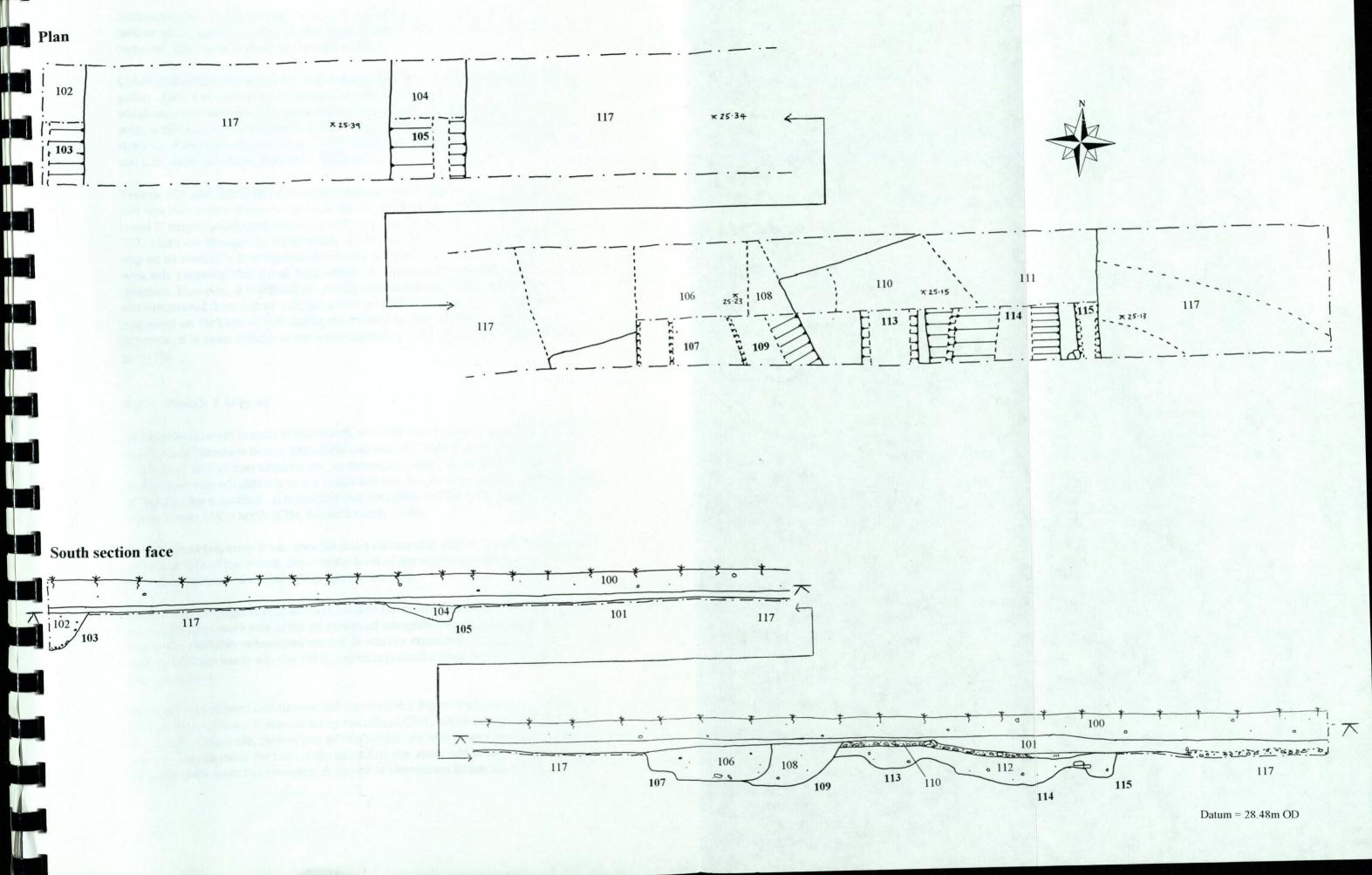
Gully 113 contained homogenous sandy clay-silt (112), from which only a single horse bone was recovered. It was the most westerly of the three features and had a shallow U shaped profile.

The middle feature, 114, had a broad, irregular profile and appeared to be a ditch.

Gully 115 had a steep-sided flat-bottomed profile, suggesting that it may have held the sill beam or stave-built wall of a wooden structure. Possible packing stones were placed on its west side. Although much wider and slightly shallower, gully 113 may have held the corresponding sill beam or stave wall of this possible structure. This would give it an internal width of approximately 2.3 m. (7½ feet). If these features do represent a structure, it is difficult to explain the presence of feature 114, unless it relates to the demolition phase. Alternatively, it is possible that the wall which

Fig. 3: Plan and section of features exposed in Trench 1

Scale = 1:40



corresponds to 115 lies beyond the eastern end of the trench. Finds from the cobbled surface which sealed 112 suggest that these features, and any structure which they may represent, date no later than the eleventh century.

**Cobbled Surface 110** sealed 112 and slumped into the top of the possible ditch and gullies. Sherds of tenth to eleventh century pottery were recovered from the surface, which may well have been contemporary with an undated cobbled surface, possibly a path, at the east end of the trench (116). The east end of surface 110 was beneath a thin lens of mid-grey-brown subsoil (111) which also contained tenth century pottery, and a fragment of a bone skate (see Appendix 3).

**Trench 107 and Ditch 109** were intercutting and were aligned north to south. Ditch 109 was the earliest of the two and cut the end of the cobbled surface (110). It had a broad U shaped profile and was filled with dark grey brown silty clay (108). Trench 107, which cut through the western side of 109, had vertical sides, a flat base and a step on its west side. It contained mid-brown sandy silt-clay (106). The profile of its west side suggested that it may have contained a sill beam for another wooden structure. However, it is difficult to explain why the feature was so wide. No finds were recovered from 106 or 108, but a date no earlier than the eleventh century is suggested on the basis of 109 cutting the cobbled surface. If 107 was part of a structure, it is again difficult to see a corresponding wall, unless this is represented by gully 105.

## 5.2 Trench 2 (Fig. 4)

Machine excavation in most of this trench was only carried out to a depth of c. 0.10m. as a layer of limestone blocks and rubble was exposed immediately beneath the turf. This was in fact an over cautious act, as investigation quickly established that the rubble layer was of relatively recent origin and was not the remains of a stone structure as had first been assumed. It is possible that the rubble related to the construction of Saxon House to the north of the site in the early 1970s.

As a result of this error it was decided that a narrow strip should be excavated by hand along one side of the trench, down to the level of any earlier archaeological remains. Four features were identified within this narrow strip.

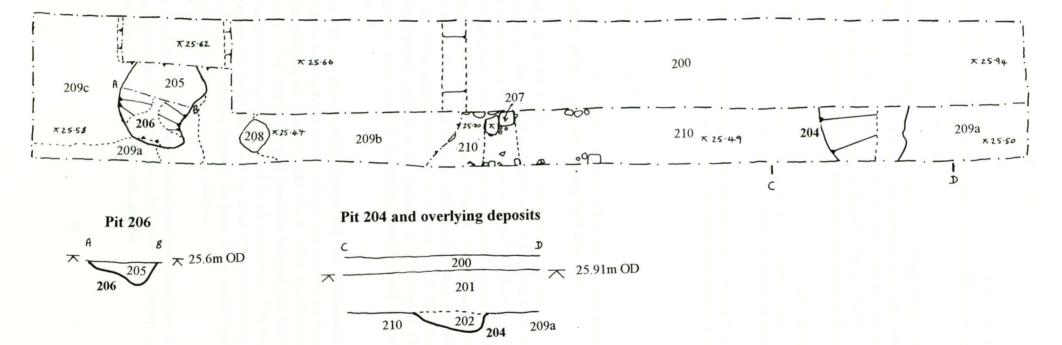
**Pit 204** had an irregular plan and was cut into the natural bedrock at the north end of the trench. The south side of the pit contained orange/brown sandy clay-silt (203) which was probably redeposited natural. It was not excavated. The bulk fill was mid-grey/brown sandy silt-clay (202) and incorporated a small quantity of tenth century pottery.

**Wall 207** was aligned east to west and survived in a fragmentary state to a height of three courses (30cm). It was sealed by the subsoil (201) which contained thirteenth to fourteenth century tile, pottery and an iron buckle. An iron hinge pivot from a door or window was found at the base of the subsoil on the south side of the wall and almost certainly came from this structure. A spread of intermittent limestone rubble existed in

Fig. 4: Plan and sections, features exposed in Trench 2

Scale = 1:40

# Plan



the base of the subsoil to the north of wall 207 and may also have related to this structure for which a thirteenth to fourteenth century date is suggested.

**Pit 206 and Feature 208** were at the south end of the trench. Pit 206 had an irregular plan and was filled with a compacted orange brown silty clay which produced no artefacts. Although the profile across the middle of the pit was broadly V-shaped the eastern end was nearly vertical, and it is possible that the feature was the setting for a number of posts (possibly two at the east end with others in the unexcavated area).

Feature 208 was 0.30m. to the north of pit 206. It was sub-square in plan and contained an orange/brown silty clay fill similar to that in the adjacent pit. This feature was not excavated but it is possible that it also was a post setting.

These possible post settings may have formed part of an internal or external structure related to wall 207. Alternatively they may have been part of a separate and earlier structure.

## 5.3 Trench 3 (Fig. 5)

This trench was located at the west end of the site and contained a number of archaeological features, including a post-built structure.

**Pit 303** was on the north side of the trench and had an irregular plan, suggesting perhaps that it had functioned in a number of separate events. It was filled with light to mid brown clay-silt (304/305), the lower part of which contained lots of small limestone fragments. Sherds of mid to late eleventh century pottery and animal bone were recovered from the upper part of the fill. The surface of the natural limestone brash into which this pit was cut was pink-red in colour, indicating *in situ* burning. It is possible that this related to an industrial activity, but as the full extent of the feature was not determined, certainty is not possible. It is interesting that the fill did not incorporate any burnt material, suggesting that this itself was not connected with the use of the pit.

**Structure 323** was aligned north to south and was represented by eight postholes. Seven of these were arranged in a C-shape, presumably forming the end of a rectangular building. Its internal width was c. 1.9m. and the length exposed in the trench was c. 1.2m. The eighth post hole was situated just north of the main configuration but presumably related to it in some way. The north end of the building overlapped pit 303. Where this was the case, the postholes had been excavated significantly deeper, cutting through the base of the pit into natural limestone. The other postholes were comparatively shallow.

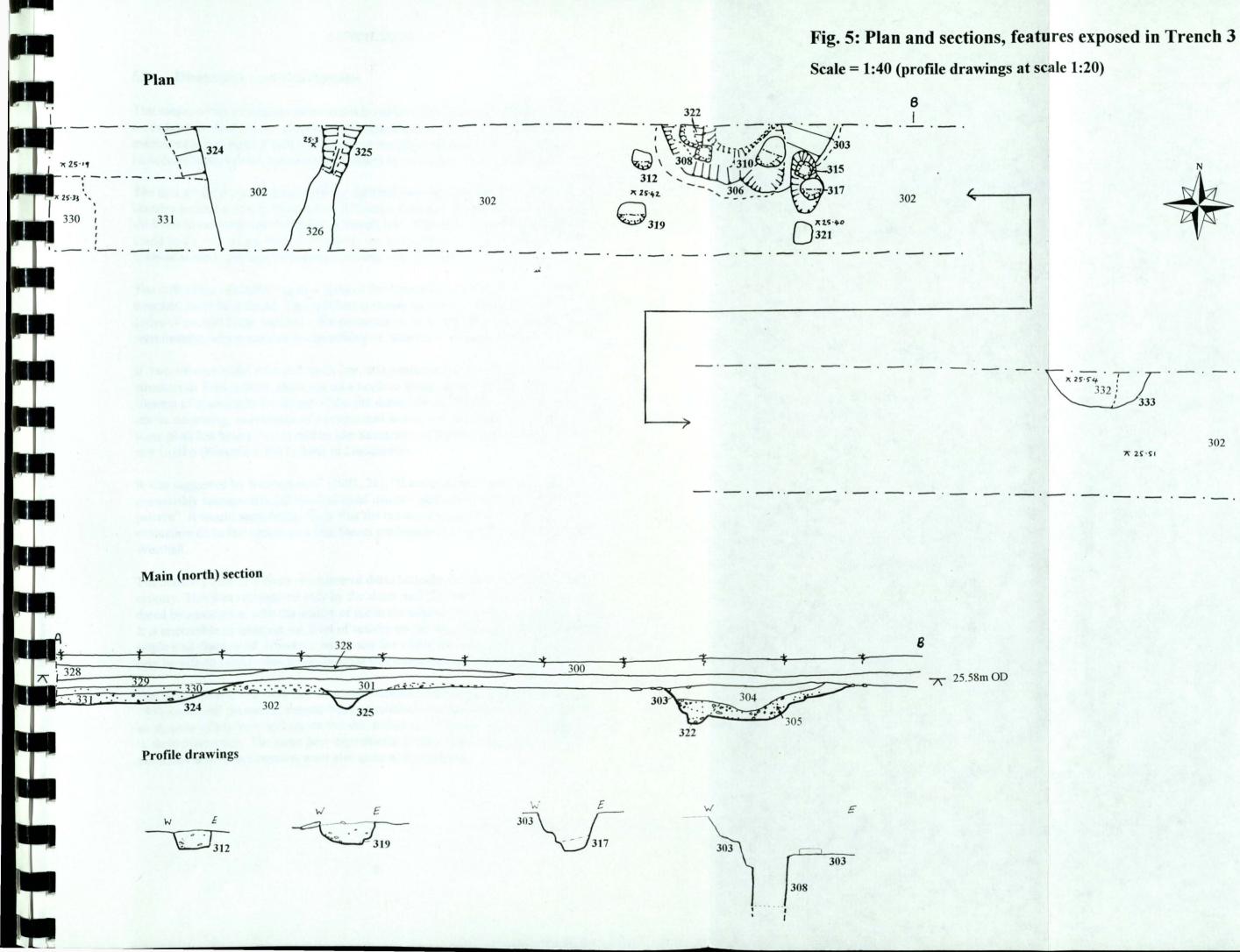
Although no direct dating evidence was recovered from any of the postholes, it can be safely assumed that the structure post-dated pit 303, placing its date at some point during or after the mid to late eleventh century.

**Gully 325** was c. 3.5m. to the west of, and aligned broadly parallel to, structure 323. It had a shallow V-shaped profile and contained two fills which produced no artefacts.

**Feature 324** was a broad shallow depression at the west end of the trench. It was aligned not to south and contained two clay-silt fills. No artefacts were recovered.

**Pit 333** was at the east end of the trench on its northern side. It contained a mid-orange/brown clay-silt but was not excavated due to time constraints.

T



x 25.54 332 333

¥ 25.51

## 6.0 Discussion and Conclusions

The results of the evaluation show that it is unlikely that the Anglo-Saxon cemetery extends as far south as the proposed development site. No early Saxon settlement evidence (contemporary with the cemetery) was exposed during the evaluation. However, important structural remains dating to two phases were encountered.

The first of these phases dates between the tenth and eleventh centuries. Associated remains include a post-built structure in Trench three and the possible remains of two sill-beamed or stave-built buildings in Trench one. Although none of the buildings could be directly dated, their associations seem to suggest a broadly late Saxon date. A cobbled surface, perhaps belonging to a yard, was also dated to this period.

The difficulties of identifying structures of this type and period in small evaluation trenches, must be stressed. This problem is clearly shown by Trench one, where a series of parallel linear features were encountered. It is very difficult to be sure of their relationships, which reduces the possibility of structures being recognised.

If two structures did exist in Trench one, it is worth noting that, like the post-built structure in Trench three, these are on a north to south alignment. This may suggest an element of planning in the layout of the site during the late Saxon period. This would not be surprising, as evidence of an organised layout with successive rebuilding on the same plots has been noted at mid to late Saxon sites at Flixborough (Loveluck 1998) and Goltho (Beresford 1987), both in Lincolnshire.

It was suggested by Everson et al. (1991, 28), "that the separate existence and presumably management [of the Prebendal manors] perhaps fossilises an even older pattern". It would seem highly likely that the remains encountered during the evaluation do in fact represent a late Saxon predecessor to the Prebendal manor of Westhall.

The second phase of activity encountered dates between the thirteenth and fourteenth century. This was represented only by the stone wall [207] in Trench two which was dated by association with the scatter of tile in the subsoil at the same end of the trench. It is impossible to interpret the level of activity on the site during this period from the single wall discovered. However, as the site lies within the west yard of Westhall, it may be safe to assume that it was in some way connected with the manor.

The Anglo-Saxon cemetery and structural remains found to the north of the site in 1971 were well preserved, despite being at relatively shallow depth. This was due to an absence of any later activity on the site, including ploughing, which would have led to their destruction. The same post-depositional factors seem to have applied to the evaluated site, where remains were also quite well preserved.

## 7.0 Acknowledgements

Ŋ

I

Π

ľ

I

Pre-Construct Archaeology (Lincoln) express their sincere thanks to Lincolnshire County Council Property Division for this commission. Thanks also to, Mark Bennet and Sarah Grundy (County SMR), the site team; Wayne Livesey, Miles Ridsdale and Jim Snee and the specialists; Jane Cowgill, James Rackham and Jane Young.



8.0	Appendices:							
8.1	8.1 Pottery and Tile Analysis by J. Young							
8.2	Animal Bone Arch	chive by J. Rackham						
8.3	Registered Finds A	Archive by J. Co	owgill					
8.4	References							
8.5	Site archive							
8.6	List of Contexts							
8.7	Colour plates							

#### Norbeck Lane, Welton (NLW98)

## Post-Roman pottery archive: ware types by context

#### By Jane Young Comments Context Ware Sherds Form 101 LSH JAR 1 BASE; SOOT LSLOC JAR SHELL FABRIC 1 SST 1 MIXED COARSE & FINE FABRIC AND FE Date: ASH7-13; ASH7-11; 10TH BS 104 LKT JAR 1 Date: ASH7-ASH11; 10TH 110 LSH JAR BS TORK 2 JAR BASE; FRESH BREAK Date: ASH7-ASH13; 10-1TH BS de ring mil LKT 1 JAR 111 LSH 1 FABRIC C; BS JAR LKT 1 BS; SOOT; X2 JAR LSLOC 1 JAR BS; SAND & SHELL FABRIC TORK 2 JAR BS; FRESH BREAK LSLOC JAR FABRIC D?; BS 1 Date: ASH7-ASH13; ASH7-11; 10TH 201 LFS 1 JAR BS LSW2 1 JUG BS; X2 LSWA JUG 1 BASE Date: MH4-6; 13TH-MID14TH 201 (contd) LFS 2 JAR RIM; ASH14+ LFS 1 JAR RIM; ASH 14+ LFS JAR; TINY 1 RIM LFS 1 JAR BS; X7 LKT 1 JAR/PITCHER PRESSED STRIP LSH JAR 1 BS; WORN; X3 LSW2 JUG 1 BS; X4 NOTG JUG BS; ?ID 1 MEDLOC JUG 1 HARD GREY FABRIC; REDUCED GLZE JUG MEDLOC 1 OVAL HANDLE; REDUCED GLZE Date: MH4-8; 13-14TH 201 (contd) PNR 32 TILE VARIOUS; PROB ALL FLAT TILE; 13-15THC; SOME LINCOLN TYPES 1 TILE PNR FLAT; CORNER; NOT LINCOLN 202 LSH 1 JAR BS; X4 Date: ASH7-11; 10TH

NECT

207	LSH	1	JAR	NECK
Date: ASH	H7-11; 10TH			
304	LFS	1	JAR	RIM; SOOT INT; ASH 13+
	LFS	1	JAR	RIM; X3; ASH13+
	LFS	1	JAR	BS; X3
	LSH	1	JAR	WORN; EVERB3 RIM
	LSH	1	JAR	BS; X3
	LKT	1	JAR	BS
	LS/SNLS	2	JAR?	SV; BS
Date: ASH	13-14; MID TO LAT	TE 11TH		
		SHE THE		
U/S	LSWA	1	JAR/PIPKIN	BASE; 13/14TH
	LSH	1	JAR	BS; LEACHED EXT
	LSLOC	1	JAR	FABRIC D?; BS
	LSH	1	JAR	BS

#### Comments

A small but interesting group of pottery. Most of the material is of late Saxon date, probably 10th century. No definite 9th century vessels are present but this could just be the absence of diagnostic sherds. More than six different fabrics are present on the site for this period. Jar rims in LFS belonging to the mid to late 11th century (304) and the late 11th to mid 12th century (201) are both present, as are a number of undiagnostic LFS sherds indicating a probable continuation of occupation through the 11th century. There is little medieval pottery present and what is there is probably 13th/14th century, although a large quantity of tile, again of a similar date is present in (201).

by DJ Rackham Archive Catalogue of Animal Bone from NLW98

site	cont.	species	bone	no.	side	fusion	zone	butchery	gnawing	toothwear	measurement	path.	comment	preser vation
NLW98	104	BOS	INN	1	R		3	СН	TOOTH	CAR - Cash	a are chose us	15 10 - 64 (10-64	ILIAL SHAFT-ANT CHOPPED FROM LATERAL SIDE	4
NLW98	104	CSZ	RIB	1	F	- provide			1	Ligiton and	S Payne (eds)	1991 449 1	DISTAL SHAFT FRAG	4
NLW98	104	CSZ	RIB	1	F	- Annalis			Teeth are	labelled a	Lolicent in the	tooth	PROX THIRD SHAFT	4
NLW98	111	BOS	RAD	1	F	ALLAN ALLAN			DG	dpm1/dopm1 part/upm4	i làp g idu	2/duped 2/duped	DISTAL SHAFT FRAG WITH PART ULNAL SHAFT-DIST END CHEWD	4
NLW98	111	CSZ	RIB	1	F	Arrivi-	al vec	СН	in the second se	ind/and co.			SHAFT FRAG- 2 PIECES-BOTH ENDS CHOPPED	4
NLW98	112	EQU	AST	1	R	aaloriya ayiidad	1	(E.	ZONES -	rotal recor	L1-61 L2-61.5 Bd-57.2	-1- 2-Cipe	COMPLETE	4
NLW98	201	BOS	UPM2	1	L				24	F13	In some on each	pone in	an perfect	4
NLW98	201	BOS	UPM2	1	L	2.adtau				F12				4
NLW98	201	CSZ	RAD	1	F		The second		MUSSINGER	TH + MAY US	seuropanta are	those 1	PROX LAT SHAFT FRAG	3
NLW98	201	CSZ	SKL	1	F	1 ances	nate			Siles,	Funtanty Huseum	Bullet.	POSS JUV HORSE PARIETAL FRAG	4
NLW98	201	OVCA	MTT	1	F	11100							ANT MIDSHAFT FRAG	4
NLW98	304	BOS	CAL	1	L	Jachas	2	CH	DG	0.0	numie) while stars	iving	PROX END CHEWED-ZONE 3 CHOPPED OFF	4
NLW98	304	BOS	CPU	1	F	Temu		В		2 1	TE VOEY SEVALE	ly plit	CHARRED FRAGMENT OF ULNAL CARPAL	4
NLW98	304	BOS	LM1	1	R	021 ( 3)	alus			I12	uvfece pittina	and eres	COMPLETE	4
NLW98	304	BOS	ULN	1	F	DN	e la la				of dentine of t	261.0	DISTAL SHAFT-POROUS-EPI UNFUSED	4
NLW98	304	SSZ	RIB	1	F		200 Y				ta ky exictner		PROX SHAFT FRAG	4

8.2

22/11/98

#### The Environmental Archaeology Consultancy - Bone Catalogue Key THE ENVIRONMENTAL ARCHAEOLOGY CONSULTANCY

Key to codes used in the cataloguing of animal bones

SPECI	IES	BONE	SIDE	FUSION
			W - whole	Records the fused/unfused condition of the epiphyses
BOS	cattle	SKL skull	L - left side	P - proximal; D - distal; E - acetabulum;
CSZ	cattle size	TEMP temporal	R - right sid	
SUS	pig	FRNT frontal	F - fragment	
OVCA	sheep or goat	PET petrous		R – Codes are those used in Grant, A. 1982 The use of tooth
OVI	sheep	PAR parietal		as a guide to the age of domestic animals, in B.Wilson,
SSZ	sheep size	OCIP occipital		gson and S.Payne (eds) Ageing and sexing animal bones from
EQU	horse	ZYG zygomatic		eological sites, 91-108.
CER	red deer	MAN mandible		elled as follows in the tooth wear column:
CAN	dog	MAX maxilla		n4/dupm4 f ldpm2/dupm2
MAN	human	ATL atlas		4/upm4 g ldpm3/dupm3
UNI	unknown	AXI axis	I lm1,	
CHIK	chicken	CEV cervical verteb		
GOOS	goose, dom	TRV thoracic verteb		
LEP	hare	LMV lumbar vertebra		
UNB	indet bird	SAC sacrum		
MALL	duck, dom.	CDV caudal vertebra	ZONES - zone	es record the part of the bone present.
GULL	qull sp.	SCP scapula		ey to each zone on each bone is on page 2
FISH	fish	HUM humerus		No transformer autor
UNIB	bird indet	RAD radius		
UNIF	fish indet	MTC metacarpus	MEASUREMENTS	- Any measurements are those listed in A.Von den Driesch (1976)
GSZE	goose size	MC1-4 metacarpus 1-4		A Guide to the Measurement of Animal Bones from Archaeological
BEAV	beaver	INN innominate		Sites, Peabody Museum Bulletin 1, Peabody Museum, Harvard, USA
CORV	crow or rook	ILM ilium		6- tracmanter bestins
		PUB pubis		
		ISH ischium	PRESERVATION	1 - enamel only surviving
		FEM femur		2 - bone very severely pitted and thinned, tending to break up
		TIB tibia		teeth with surface erosion and loss of cementum and dentine
		AST astragalus		3 - surface pitting and erosion of bone, some loss of cementum
		CAL calcaneum		and dentine on teeth
		MTT metatarsus		4 - surface of bone intact, loss of organic component, material
		MT1-4 metatarsus 1-4		chalky, calcined or burnt
		PH1 1st phalanx		5 - bone in good condition, probably with some organic component
		PH2 2nd phalanx		L. Chicanesi Edes
		PH3 3rd phalanx		
		LM1-LM3 Lower molar 1 -	molar 3	
		UM1-UM3 upper molar 1 -		
			remolar 1-4	
		-	cemolar 1-4	
		DLPM1-4 deciduous lower		
		DUPM1-4 deciduous upper	-	
		MNT mandibular toot		
		MXT maxillary tooth		
		LBF long bone		
		UNI unidentified		
		STN sternum		
		INC incisor		
		TTH indet. tooth CMP carpo-metacarpu	e	
		ont carpo-meracarpu	-	

22/11/98

-

ZONES - codes used to define zones on each bone

0121111	1 accordinital presson	METACADDUC	
SKULL -	1. paraoccipital process	METACARPUS -	1. medial facet of proximal artciulation, MC3
	2. occipal condyle		2. lateral facet of proximal articulation, MC4
	<ol> <li>intercornual protuberance</li> <li>external acoustic meatus</li> </ol>		3. medial distal condyle, MC3
	5. frontal sinus		4. lateral distal condyle, MC4
	6. ectorbitale		5. anterior distal groove and foramen
	7. entorbitale		6. medial or lateral distal condyle
	8. temporal articular facet	ETDET DUALANY	1. proximal epiphysis
	9. facial tuber	EIRSI ERALANA	2. distal articular facet
	0. infraorbital foramen		2. distal alticular facet
	0. Inflaoibitai ioramen	INNOMINATE	1. tuber coxae
MANDIBLE	1. Symphyseal surface	INNOMINALL	2. tuber sacrale + scar
PRIVDIDLE	2. diastema		3. body of illium with dorso-medial foramen
	3. lateral diastemal foramen		4. iliopubic eminence
	4. coronoid process		5. acetabular fossa
	5. condylar process		6. symphyseal branch of pubis
	6. angle		7. body of ischium
	<ol> <li>angle</li> <li>anterior dorsal acsending ramus posterior</li> </ol>	MB	8. ischial tuberosity
	8. mandibular foramen	MJ	9. depression for medial tendon of rectus femoris
	o. Mandibular foramen		J. depression for medial cendon of rectus remotis
VERTEBRA	1. spine	FEMUR	1. head
VERTEDICA	2. anterior epiphysis	LENOIC	2. trochanter major
	3. posterior epiphysis		3. trochanter minor
	4. centrum		4. supracondyloid fossa
	5. neural arch		5. distal medial condyle
	S. heardi aron		6. lateral distal condyle
SCAPULA	1. supraglenoid tubercle		7. distal trochlea
o or the o have	2. glenoid cavity		8. trochanter tertius
	3. origin of the distal spine		
	4. tuber of spine	TIBIA	1. proximal medial condyle
	5. posterior of neck with foramen		2. proximal lateral condyle
	6. cranial angle of blade		3. intercondylar eminence
	7. caudal angle of blade		4. proximal posterior nutrient foramen
			5. medial malleolus
HUMERUS	1. head		6. lateral aspect of distal articulation
	2. greater tubercle		7. distal pre-epiphyseal portion of the diaphysis
	3. lesser tubercle		
	4. intertuberal groove	CALCANEUM	1. calcaneal tuber
	5. deltoid tuberosity		2. sustentaculum tali
	6. dorsal angle of olecranon fossa		3. processus anterior
	7. capitulum		
	8. trochlea	METATARSUS	1. medial facet of proximal artciulation, MT3.
			2. lateral facet of proximal articulation, MT4
RADIUS	1. medial half of proximal epiphysis		3. medial distal condyle, MT3
	2. lateral half of proximal epiphysis		4. lateral distal condyle, MT4
	3. posterior proximal ulna scar and foramen		5. anterior distal groove and foramen
	4. medial half of distal epiphysis		6. medial or lateral distal condyle
	5. lateral half of distal epiphysis		
	6. distal shaft immediately above distal epip	physis	
		and the second se	
ULNA	1. olecranon tuberosity		
	2. trochlear notch- semilunaris		
	3. lateral coronoid process		
	4. distal epiphysis		

## 8.3 REGISTERED FINDS CATALOGUE FOR THE EVALUATION AT NORBECK LANE, WELTON (NLW98: LCCM 221.98).

Context 111; RF 1. Fragment of a bone skate made from a horse metatarsus (pers. comm. D J Rackham). Highly polished from use. These are fairly frequent finds in Britain from the 8th - 13th century (MacGregor 1985, 142).

When the great marsh that washes the Northern walls of the City [of London] is frozen, dense throngs of youths go forth to disport themselves upon the ice. Some gathering speed by a run, glide sidelong, with feet set well apart, over a vast space of ice. Others make themselves seats of ice like millstones and are dragged along by a number who run before them holding hands. Sometimes they slip owing to the greatness of their speed and fall, every one of them, upon their faces. Others there are, more skilled to sport upon the ice, who fit to their feet the shinbones of beasts, lashing them beneath their ankles, and with iron-shod poles in their hands they strike ever and anon against the ice and are borne along as swift as a bird in flight or a bolt shot from a mangonel [engine of war]. But sometimes two by agreement run one against the other from a great distance and, raising their poles, strike one another. One or both fall, not without bodily hurt, since on falling they are borne a long way in opposite directions by the force of their own motions; and wherever the ice touches the head, it scrapes the skin off entirely. Often he that falls breaks shin or arm, if he fall upon it. But youth is an age greedy of renown, yearning for victory, and exercises itself in mimic battles that it may bear itself more boldly in true combats.

William Fitz Stephen describing skating on Moorfields (London) in c. 1170 (Fitz Stephen 1990, 58 - 59).

Context 201; RF 2. A complete rectangular iron buckle with an iron pin of a suitable size to have been used as an item of dress. Width 28mm x 22mm.

Context 201; RF 3. Complete iron hinge pivot probably originally used for hanging a door or window shutter. Length 100mm, height 66mm.

Context 201; RF 4. An iron nail with a rectangular shaft and irregular hand-made head. Length 40mm.

Context 201. Natural piece of ironstone; discarded.

## BIBLIOGRAPHY

Fitz Stephen, William 1990, Norman London, Italica Press, New York edition. (Translation by H E Butler 1934.)

MacGregor, Arthur 1985, Bone Antler Ivory & Horn: The Technology of Skeletal Materials Since the Roman Period, London.

Jane Cowgill November 1998

8.4 References		
Beresford, G.	1987	Goltho. The development of an early medieval manor c.850 - 1150. English Heritage Archaeological Report No. 4
Ekwall, E.	1989	The Concise Oxford Dictionary of English Place-Names. 4th ed.
Everson, P.L., Taylor, C.C. & Dunn, C.J.	1991	Change and Continuity. Rural Settlement in North-West Lincolnshire.
Hunt, A.	c.1925	Notes on the History of Welton by Lincoln.
Leach, T.R.	1984	A Welton Miscellany: Some Contributions to the History of Welton.
Loveluck, C.P.	1998	A high-status Anglo-Saxon settlement at Flixborough, Lincolnshire. Antiquity 72. p. 146-161.
Pevsner, N., Harris, J.	1995	The Buildings of England: Lincolnshire.

8.5 Site archive

and Antram, N.

.

Primary records are currently with PCA (Lincoln). An ordered archive of both paper and object elements is in preparation and will be deposited at the City and County Museum, Lincoln, within six months.

		around pit 303

of

#### List of archaeological 8.6 contexts

#### **Trench 1**

100	Mid - dark grey clay silt topsoil
101	Light grey brown clay silt subsoil
102	Mid grey brown sandy silt clay fill of ditch 103
103	N-S ditch
104	Mid brown sandy silt clay fill of gully 105 (10th C)
105	N-S gully
106	Mid brown sandy silt clay fill of trench 107
107	N-S linear trench
108	Dark grey brown silty clay fill of ditch 109
109	N-S ditch
110	Cobbled surface (10th-11thC)
111 clay	Thin lens of mid grey brown silty subsoil (10th C)
112	Pale brown sandy silt clay fill of features 113, 114 and 115.
113	N- S gully
114	N-S ?ditch
115	N-S gully
116	Cobbled surface ?path
117	Natural orange brown sandy clay silt
Trencl	h 2
200	Dark grey brown sandy clay silt topsoil
201 subsoil	Mid grey brown sandy silt clay (contains 13/14th C tile/pottery)
202	Mid grey brown sandy silt clay

fill of pit 204 (10th C) upper

203 fill	of pit 204. ?Redeposited natural - not excavated
204	Sub-circular pit
205	Orange brown silty clay fill of pit 206
206	Irregular pit.?possible post settings
207	E-W stone wall. 3 courses (prob. 13/14thC)
208	Possible post-hole containing orange brown silty clay. Not excavated
209	Natural limestone
210	Limestone fragments/rubble ?relating to wall 207

## **Trench 3**

300	Dark brown clay silt topsoil
301	Light yellow brown clay silt subsoil.
302	Natural yellow clay and limestone brash
303	Irregular pit with burnt edges
304	Light brown clay silt upper fill of pit 303 (md-lt 11th C)
305	Light - mid brown clay silt lower fill of pit 303
306	Dark red brown heat affected natural around pit 303
307/308	Light yellow grey clay silt fill and posthole
309/310	Light yellow grey clay silt fill and posthole
311/312	Light yellow brown clay silt fill and posthole
313/322	Light - mid brown clay silt fill and posthole

314/315 Light yellow brown clay silt fill and posthole

#### Orange brown sandy clay silt lower 202

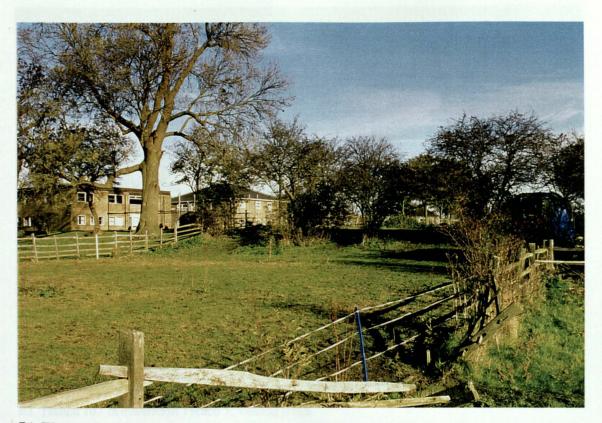
to wall 207

00	Dark	brown clay

(**)	316/317	Light orange brown clay silt fill and posthole
3	318/319	Light yellow brown clay silt fill and posthole
	320/321	Mid brown clay silt fill and posthole
3	323	Post-built structure
-	324	N-S linear feature
(1)	325	N-S gully
-	326 gully	Light brown clay silt upper fill of 325
17	327 gully	Pale orange clay silt lower fill of 325
(1)	328	Yellow silt clay layer below topsoil
3	329	Mid grey brown clay silt deposit
. 7	330 111	Light yellow brown clay silt upper of 324
	331	Light - mid brown clay silt lower fill of 324
(1)	332	Mid orange brown clay silt fill of pit 333
(1)	333	Sub-circular pit

a sub-track are card of and, locking north-west divised 1 in the general of the angle of the nearest the there is a processorie devotion towards the second here the

## 8.7 Colour plates



P1. West site boundary (hawthorn hedge) showing raised area (west edge of the former West Yard)



**P2.** General view, east end of site, looking north-west (Trench 1 in foreground): the angle of the nearest car shows the progressive elevation towards the former West Yard



P3. Trench 107 in evaluation Trench 1, looking south

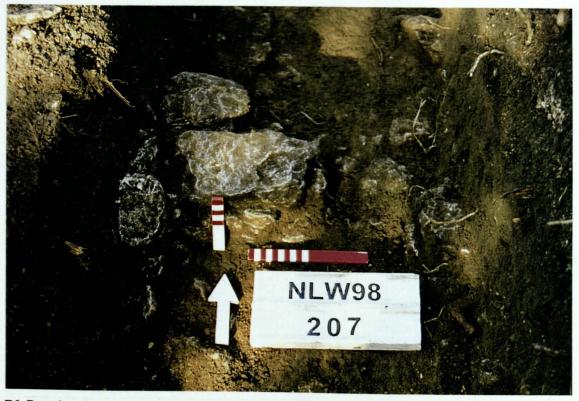


P4. Gully 113 and ditch 114, Trench 1, looking south



P5. Gully 115 and ditch 114, Trench 1, looking south

1



P6. Remains of wall footing 207, Trench 2, looking north



**P7**. Burnt pit 303 cut by post-built structure 323, Trench 3, looking north