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### **SUMMARY**

A total of sixty seven individuals were recovered during archaeological fieldwork at St Andrew's Church Thursby.

The assemblage corresponded with a largely mature adult group, from a relatively affluent social profile but probably beneath the gentry in terms of social class, who had died during the later 18<sup>th</sup> and early 19<sup>th</sup> centuries.

It was not possible to deduce kin groups although it is highly likely that such affinity existed.

There was little direct evidence for pre-eighteenth century activity either structurally or defined by burial practice due to the mitigation strategy implemented. Such deposits would have been present, albeit heavily truncated by later development and burial.

### 1. INTRODUCTION

### 1.1 Project origins

Gerry Martin was commissioned by Mr Ernest Shimmins, the client, to prepare A Specification of Works for a Programme of Archaeological Excavation Brief (to include a limited archaeological excavation) relating to the ground works within St Andrews Church, Thursby as requested under the faculty issued by the Cathedral Diocesan Authority.

Because of the archaeological significance of this location, the statutory authority, the Diocese of Carlisle, stated that permission to build is subject to the contractor securing the implementation of a formal programme of archaeological observation and investigation during the forthcoming development (English Heritage 2005, 4).

In conversation with Mr Brian Cook representing the church Faculty, he asserted that any human burial once isolated will require removal by hand digging. Although a watching brief condition has been placed on this work, no specification existed nor were there plans to issue a formal brief

As potential and significant archaeological remains were anticipated, an archaeological programme of works was requested. The results of the evaluation determined that a limited level of formal excavation was required within the footprint of a proposed drain from the church to the small churchyard gate and from the church boiler room to link into the drain mentioned above.

Any development within the burial ground was covered by Point 2 of the English Heritage Guidance;

"Any subsequent exhumations should be monitored, and if necessary carried out, by archaeologists. The developer, whether a religious or a secular organisation, should be responsible for the cost, including study of excavated remains and their reburial or deposition in a suitable holding institution." (English Heritage 2005, 4).

A written scheme of investigation (WSI) was produced by the archaeological contractor in response to a request issued by the Diocesan Advisory Committee and detailed the methods and procedures to be employed during the fieldwork programme. It was submitted to the above curatorial authority for their approval.

The development of the site involved the hand removal of superfluous earth within the proposed services footprint as well as possible construction works within the church.

In order to assess the archaeological merits regarding the archaeological impact involving this development an archaeological evaluation was required. The evaluation results informed the Diocesan Advisory Committee whether permission should be granted and the response for any further archaeological works.

The fieldwork adhered and sought to address the Guidance for Best Practice for Treatment of Human Remains Excavated from Christian Burial Grounds in England (2005) published jointly by English Heritage and the Church of England and also the note issued by Joseph Elders, Archaeology Officer, Cathedrals and Church Division (2009).

On November 29<sup>th</sup> 2009 an arson attack on Thursby Church resulted in serious damage to the fabric of the building that required wholesale refurbishment. As a result, a number of improvements have

been proposed regarding those invasive works that could compromise the integrity of human remains and archaeological deposits of considerable antiquity.

The Diocese of Carlisle issued a Faculty allowing these works to be undertaken subject to an "Archaeological Watching Brief" being undertaken.

Gerry Martin Associates Ltd were approached to offer a fee proposal for the archaeological works effected by the development. Upon visiting the site, it was clear that any invasive action would almost certainly compromise prior burials, verified by subsequent evaluation. The appointed archaeological contractor drew attention to the principal contractor (Cubby Construction Ltd) and the Project Manager (Ernest Shimmins) that a) there was no specification issued within the watching brief condition and b) that "best practice" outlined by English Heritage and the Church of England should be adhered to.

In seeking to address this problem, GMA Ltd learnt that the Diocese of Carlisle has not formally appointed a Diocesan Archaeological Advisor, the last incumbent being Dr Mike McCarthy formerly of Carlisle Archaeology Ltd.

It was also confirmed that curatorial authority was not subject to the jurisdiction of the County Archaeologist.

Therefore in the light of this impasse, the programme outlined below provided both the project design and specification for this programme of archaeological works.

# 2. METHODOLOGY

# 2.1 Project design

The general objectives of the excavation were to:

- Excavate and record archaeological remains
- Recover, identify and conserve as appropriate any archaeological artefacts
- Recover, assess and analyse as appropriate any palaeo-environmental, palaeo-economic and organic remains
- Produce a suitable archive
- Produce a client report that addresses the aims of the brief
- Publish significant results in an appropriate journal if required

The remit was identified as the drain run from the boiler room to the south-side of the church to the small gate and to include any floor reduction within the church.

The external area was be reduced of any extraneous overburden by hand excavation and if necessary modern intrusive features were removed.

The underlying horizon was hand cleaned in order to identify archaeological features.

Excavation followed a purely stratigraphic sequence and obeying standard archaeological principles when excavating human remains (Rodwell 2005, 186-188), with intrusive features to be excavated before excavation of horizontal strata.

In order to achieve these objectives, a record of all archaeological informative deposits encountered during the ground operations was undertaken, consisting of detailed context records on individual pro-forma sheets, according to the protocols set out in the GMA manual.

Each layer, fill and cut were individually numbered and described in terms of soil detail, stratigraphic position, dimensions, artefact content, environmental samples and interpretation. The context system was cross-referenced to other records. Registers were maintained for all photographs, levels, plans, section, finds and samples taken, made or gathered in the field.

Horizontal deposits were cleaned, photographed, planned and documented as per the protocols outlined in the Gerry Martin Associates Ltd Field Manual.

All scaled plans were related to a base plan fixed to the OS grid. All levels were calculated to Ordnance Datum. Digital images were used to record the proceedings. All photographs were numbered and labelled with subjects, orientation and scale. General shots of the site were also be taken.

All finds from stratified deposits were collected, processed and recorded as expressed in the GMA Manual, forming an individual section within the final report.

Sealed and anaerobic deposits or deposits of archaeological merit were not present and did not constitute part of the final report.

Intrusive or discrete features were half-sectioned where necessary, the half-section being photographed, drawn and documented prior to excavation of the remaining half as per the protocols outlined in the Gerry Martin Associates Ltd Field Manual.

Human remains within graves were 100% recovered within the confines of the study trench. Excavation proceeded in accordance with English Heritage guidelines, namely that controlled excavation will be confined to the pipe trench and human remains will not be pursued beyond the limits of excavation. Effectively this meant that approximately 0.60m content of each grave was exhumed.

The study area was discreetly screened behind Heras fencing covered by fabric.

A human osteologist (Kate Griffiths) was present at all times to provide advice and to ensure that the highest standards and ethical treatment of human remains was strictly adhered.

Any human remains that were uncovered were treated with due respect during the archaeological programme and were later reburied on 15<sup>th</sup> April 2011 according to Christian tradition within a single grave in the new churchyard that lies just to the north of St Andrews.

# 2.2 Walkover survey

At the invitation of Paul Atkinson (Cubby Construction) and accompanied by Chris Sewell (Cubby Construction), Gerry Martin (Gerry Martin Associates Ltd) a free-lance archaeologist undertook a site walk-over of the study area in order to highlight the construction issues that may impact upon the integrity of human remains within the churchyard.

The main area of potential impact lay with the insertion of a drain and water pipe of uncertain depth along the course of an informal path leading from a stone gate up to the eastern end of the church whereupon the trench skirted around the edge of the church fabric before entering the building at the eastern end.

The following observations were noted:

- The course of the proposed drainage trench will probably clip the eastern ends of a series of twelve grave plots
- That there exists a possibility that excavating a trench close to a further row of gravestones could destabilise the headstones leading to collapse
- That the graves were as early as 1746 but appeared to fit a broad period between *circa* 1774 and 1870
- That the presence of elaborate gravestones probably indicates burials of relatively wealthy people
- That each plot contained multiple inhumations typical of family burial
- Kin groups appeared to cluster around certain plots
- That not all plots were marked by gravestones
- The untended ground in front of the gravestone was raised
- There was a considerable fall between current ground level outside the church precinct and the churchyard
- St Andrews church was located on a small knoll with a circular plan graveyard that may indicate considerable antiquity
- The extant church was rebuilt in 1846 replacing an earlier Medieval endowment
- The average distance between headstones was 2.30m
- The distance between headstones in Rows 4 and 5 (Row 4 being the study area) was between 2.70 and 3.30m perhaps identifying either a former path between Rows 3 and 4 and Rows 4 and 5
- No grave plan exists for the "old graveyard", the current study area pers comm. Mrs Eileen Wilson, Churchwarden

Based on previous experience whilst undertaking churchyard archaeology, the following comments were suggested:

- A trench over 0.30m in depth has a strong possibility of encountering historic burials
- That each plot is likely to possess multiple burials with coffins stacked above each other
- Inhumation of wealthy individuals before 1830 may include interment in lead coffins
- That individual grave plots may have been formalised by a brick chamber or vault
- Rogue burials such as infant burials between grave plots may exist
- Unmarked Medieval and late Medieval burials are quite probable and could extend up to the church building

# 2.3 Archive

The archive has been compiled in accordance with the project design and the guidelines set out by English Heritage (1991, 2006) and the Institute of Field Archaeologists (1994, 2008).

Accepted best practice has been used whilst compiling the archive (Rodwell 2005, 205-206). The archive will be deposited with an appropriate repository and a copy of the report donated to the County Sites and Monuments Record, as requested by the curatorial authority.

Human remains were later interred at a Christian service within the churchyard on 15<sup>th</sup> April 2011.

# 3. BACKGROUND

# 3.1 Location, topography and geology

The study area NY 3230 5020 is situated on the south-eastern side of St Andrews Church Thursby.

Reference to the geological map of the area indicates that the underlying geology of the area Consist of Permian and Triassic sandstones, overlain by pink Boulder Clay and moraine drift deposits of yellow sands, the outwash from glacial activity between 2,000,000 and 10,000 years ago.

The Church was founded on a small knoll providing an elevated position above the surrounding flat area overlooking Whinnow Beck to the west and River Wampool further to the south. This prospect has been enhanced in Church Lane where there exists a considerable fall from the churchyard to the road.

During the Roman period, a road linked Carlisle with Papcastle via Old Carlisle (Symonds 2009, 58). This route passed just to the south of the church being an important communication link thereafter, currently the A595.

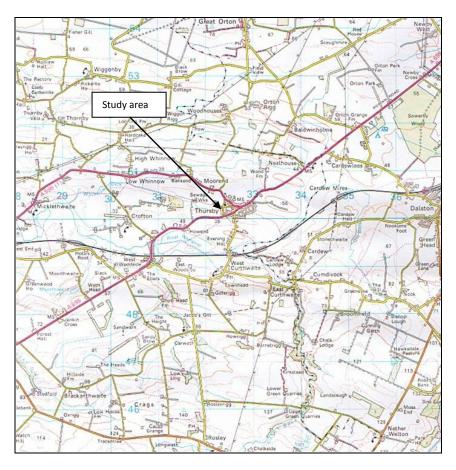


Figure 1. Location of the study area (OS Copyright, Licence no. 100044205)

# 4. HISTORICAL CONTEXT

# 4.1 Historical background

The location of Thursby Church near a junction along a Roman road and its entomology (Thurs-by =Thors settlement) suggests that the site may have considerable antiquity. Half a mile to the northwest a temple dedicated to Thor was excavated in 1774 revealing foundations of a building presently on the site of Woodriggs Church.

It is thought that the first Christian church was built of wood and stood on this location during the 7<sup>th</sup> Century AD (Crossman 1996, 2).

The present church, dedicated to St Andrew was erected in 1846 on a small knoll a little to the west of the village, replacing an earlier church probably built by David I, king of Scotland between 1124 and 1142. Its architectural style is believed to replicate that of the 12<sup>th</sup> Century, the former church on this site, whilst the rounded precinct to the church yard and its raised position may also be indicators of antiquity equivalent to a 12<sup>th</sup> Century date associated with David I.

It is believed that the chancel was much earlier and stood higher than the body of the church. This placed the chancel, the most important part of the church, on the peak of a small hillock on which the church was sited and overlooking the nave that stood below. Built of freestone and roofed with red sandstone shingles it possessed a small bell-cote with two bells (Ibid 1996, 2).

The benefice was a rectory until 1469, when Sir Robert Ogle granted it to the priory and convent of Carlisle later to become a vicarage between 1788 and 1805 within the patronage of the dean and chapter of Carlisle (Mannix and Whellan 1847).

In 1836, the old church was totally demolished leaving no trace of its previous fabric. Foundations were lain in 1845. Re-built in the Gothic Revival style in ashlar blocks to seat two hundred worshipers, it was dedicated to St Andrew on 13<sup>th</sup> August 1846. Further alterations also took place in 1878 (Crossman 1996, 2-3).

The old church yard has gravestones that date to the mid 18<sup>th</sup> Century and appears to have been in regular use until the mid 19<sup>th</sup> Century, its catchment area traditionally extending to the inhabitants of East and West Curthwaite, Howrigg and Woodside.

The Parish Register is held at the Carlisle Record Office and covers the periods 1649-1743 (PR/33/1), 1754-1804 (PR/33/4), 1805-1812 (PR/33/6) and 1813-1878 (PR/33/9).

No grave plan exists for the old churchyard, the area under study.

# 5. RESULTS

# 5.1 Methodology

The fieldwork undertaken at St Andrews Church, Thursby comprised of four elements.

1. An initial evaluation to ascertain the complexity and density of surviving human remains summarised in section 5.2

- 2. An evaluation to ascertain an archaeologically sterile zone in order to insert the new floor within the church summarised in section 5.3
- 3. Formal excavation of the contents within the drain run involving lifting of human remains summarised in sections 5.4 and 5.5
- 4. A watching brief beside the church-gate summarised in section 5.6

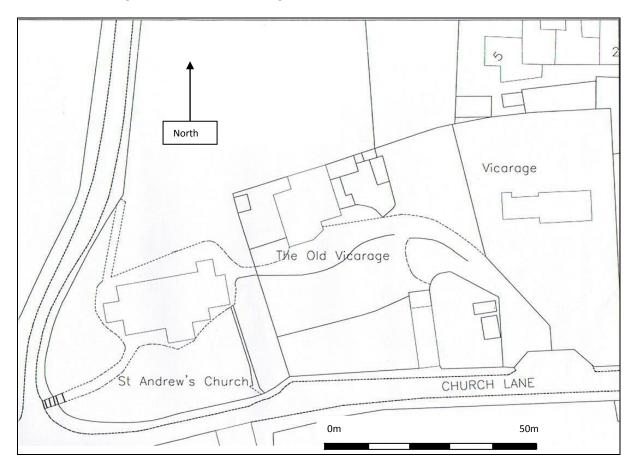


Figure 2. Location of St Andrew's Church, Thursby.

The archaeological response was a rolling programme of interventions based on the evidence uncovered by the initial evaluation.

It was apparent at an early stage that historic human remains would impact upon the development.

Once commissioned, GMA Ltd recorded and lifted any human remains that would be compromised by the development in a controlled manner, as per the protocols set out in the Working Scheme of Investigation (WSI).

The archaeological investigation principally involved excavation of a drain run. This trench was divided into areas based on the initial location of the test pits described below. The gaps between each test pit were granted the nomenclature "A" e.g. the space between Test Pit 1 and Test Pit 2 was titled area 1A.

The length of trench from the church to the church gate contained areas Test Pit 1 to Area 7A, fourteen areas in total.

Test Pits 8-10 were located within the church.

Areas 11-14 covered the trench dog-leg from the church to the boiler room.

# 5.2 Evaluation results; churchyard

The evaluation took place during November 1<sup>st</sup>-5<sup>th</sup> 2010 and involved four excavation staff. At this juncture in the project human remains were not to be lifted and the exercise was to assess the impact of the proposed development upon the archaeological record, hence the non-attribution of context numbers.

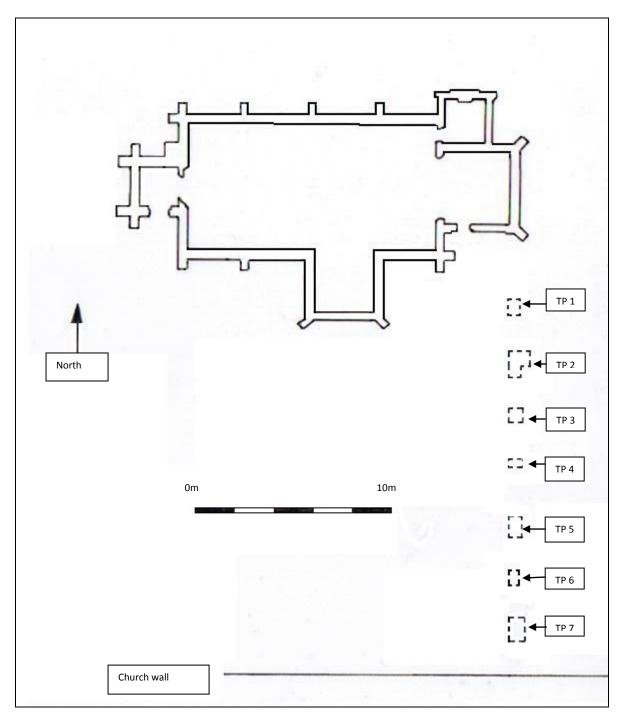


Figure 3. Location of Test Pits 1-7, St Andrew's Church, Thursby

The evaluation comprised of seven hand dug 0.60m x 0.60m test pits at 2m intervals along the projected route of the trench to a depth that was comparable to the finished invert level, where natural drift geology was present or until a cultural horizon has been encountered (human burial).

These pits (figure 3) were located at intervals of two graves approximately 1.80m eastward from the headstone in order to provide a deposit model across the graveyard that determined the depth of human remains.

If the test pits produced a considerable quantity of human remains then revision of the construction methodology would be required as hand excavation of human remains would be deemed necessary.

Heras fencing and an attached tarpaulin along the line of Row 4 within the graveyard afforded privacy and protection for the archaeologists and respect for the exposed human remains.

The results are summarised below

#### Test Pit 1

Located between 3.70m and 4.65m from the church and measuring 0.65m x 0.95m and excavated to a depth of 0.75m.

This rectangular plan test pit uncovered an unknown modern gas pipe and a salt-glazed storm drain at depth of 0.30m within its eastern section, occupying 0.20m of the trench.

The trench contained ostensibly a re-worked topsoil of very pebbly coarse sandy gravel within a brownish-grey silty sand matrix containing a high level of disarticulated human bone. This material was generally in a poor condition.

It was impossible to identify whether this was heavily worked topsoil or grave fill until natural was encountered at a depth of 0.70m below the surface. The natural comprised pinkish brown coarse sand developing into gravel.

The test pit identified three inhumations left *in situ*:

- 1. Long bones and feet within an east-west aligned grave cut
- 2. A skull that appeared to be at a lower level than the other burials, no grave cut visible
- 3. A skull and rib cage on its side at the southern end of the test pit.

### Test Pit 2

Located between 6.40m and 7.75m from the church and measuring 1.28m x 1.03m with an eastern limb extending 0.59m eastwards and 0.54m in width and excavated to a depth of 0.66m.

This L-shaped trench (figure 4) contained very loose, dark brown homogenous silty sand with a high degree of poorly preserved residual human bone.

Natural drift geology was not observed.

The test pit identified two inhumations left *in situ* and a soke-away linked to the drain observed in Test Pit 1:

- 1. Residual bone possibly belonging to a grave
- 2. A skull that appeared to be at a lower level than the other burials, no grave cut visible
- 3. A modern, square plan, brick soke-away built from frogged red bricks supporting a flat lid





Figure 4. Test Pit 2 showing soke-away

Figure 5. Test Pit 5 showing human remains

### Test Pit 3

Located between 9.10m and 10.00m from the church and measuring  $0.63m \times 0.90m$  and excavated to a depth of 0.89m.

This rectangular plan trench illustrated two fills.

Firstly, a top soil consisting of dark brown loose and homogenous silty sand with occasional residual and degraded human bone to a depth of 0.74m. Secondly, a lower horizon of light brown, very loose silty sand.

Natural drift geology was not observed

The test pit identified the following archaeological elements:

- 1. A skull, part of a skeleton within an unseen grave
- 2. Residual skull fragments in the north section, possibly not a grave

### Test Pit 4

Located between 11.75m and 12.45m from the church and measuring  $0.67m \times 0.73m$  and excavated to a depth of 1.02m.

This rectangular plan trench illustrated two fills.

Firstly, a top soil consisting of dark brown loose and homogenous silty sand with occasional residual and degraded human bone to a depth of 0.80m. Secondly, a lower clean horizon of pale brown, very loose silty sand.

Natural drift geology was not observed.

The test pit failed to unearth any human remains although two probable rows of coffin nails were observed. The area was heavy disturbed by an extant tree root.

#### Test Pit 5

Located between 14.78m and 15.95m from the church and measuring  $1.20m \times 0.67m$  and excavated to a depth of 1.02m.

This rectangular plan trench (figure 5) comprised brown sandy silt with a heavy pebble content at the surface but developed into very loose, clean brown silty sand, with occasional red sandstone chippings. At a depth of 0.80m it became pale brown loose, powdery sandy silt.

Pale brown loose sand formed the drift geology at a depth of 0.90m.

The test pit identified the following archaeological elements:

- 1. Arm bones in the northern side of the trench probably indicative of an articulated burial
- 2. Long bones within an east-west aligned grave, 0.90m below the surface
- 3. A possible articulated bone protruding from the western side of the trench
- 4. Remains of a pine coffin with fabric still attached

### Test Pit 6

Located between 17.70m and 18.60m from the church and measuring 0.91m x 0.67m and excavated to a depth of 1.35m.

This rectangular plan trench comprised lightish brown sandy silt with a heavy pebble content at the surface but developed into very loose, clean brown silty sand, with occasional red sandstone chippings. At a depth of 0.80m it became pale brown loose, powdery sandy silt sealing the remains of a largely unseen wooden coffin at a depth of approximately 1.30m.

# Test Pit 7

Located between 17.70m and 18.60m from the church and measuring 0.91m x 1.07m and excavated to a depth of 0.83m.

This rectangular plan trench comprised mid brown sandy silt with a high pebble content at the surface but developed into very loose, clean pale brown silty sand at a depth of 0.60m.

Natural was not observed and it is quite feasible that coffins survive but remain unseen.

#### Discussion

Test pits 1-3, 5 and 6 all produced *in situ* human remains that corresponded to Christian, east-west aligned burials inserted during historic time.

At least nine graves were identified of which eight inhumations would be compromised by the development proposals.

The human remains that have been recovered and those uncovered were undated but were almost certainly buried from the mid 18<sup>th</sup> Century onwards. The graves however, did not accurately respect the deliberate rows of gravestones that are extant within the Old Churchyard. Most probably, the churchyard furniture was rearranged circa 1878 when there is a recorded scheme of reorganisation to form the present spatial order.

It remains uncertain whether those deceased kin groups mentioned on the gravestones were collectively interred within familial plots or that the gravestone is merely a memorial stone.

The depths of the burials varied considerably. On average, the burial horizon appears to have been around 0.70m in depth but some heavily disturbed burials may have been at a higher level.

The deeper burials in Test Pits 4 and 6 consisted of wooden coffins at least 1.10m in depth. These interments probably post-date the 1852 Burial Act that stipulated a minimum depth for any burial.

The high propensity of residual human bone indicates frequent re-working of the soil as new graves were dug. This bone may be of Medieval and Post-Medieval date when burial was generally shallower whilst of course only the latest burial will remain complete and undisturbed, unaffected by later grave digging.

The evaluation revealed two modern services, a plastic gas pipe and a salt-glazed ceramic drain leading into a crude, rectangular plan brick-built soke-away.

Preservation of the bone tended to improve towards the base of the test pits and indeed, pine coffins with attached fabric were observed. Possibly, the effects of the soke-away had degraded the bone within the higher reaches of the test pits.

Towards the church, there appeared to be a higher build-up of topsoil and disturbed soil. This may indicate redistribution of spoil when the church was rebuilt around 1845-46 and account for the high propensity of residual human bone. Equally, the favoured area for burial may have been nearest to the church upon elevated ground suggesting that over time, a greater number of graves were dug in this area.

From a horizon of approximately 0.80m and deeper, the soil developed into a pale brown, very loose silty sand. This indicates a high level of reworking of the natural drift geology and sub-soil suggesting that further human burials are present.

# 5.3 Evaluation results; within the church

In order to ascertain any extant archaeological deposits pertaining to the Medieval church three archaeological test pits (figure 6) were inserted. Test Pit 8 was located in the chancel whilst Test Pits 9 and 10 were located in the nave.

# Test Pit 8

Test Pit 8 (figure 7) measured 1.30m x 1.18m and was excavated to a depth of up to 0.60m.

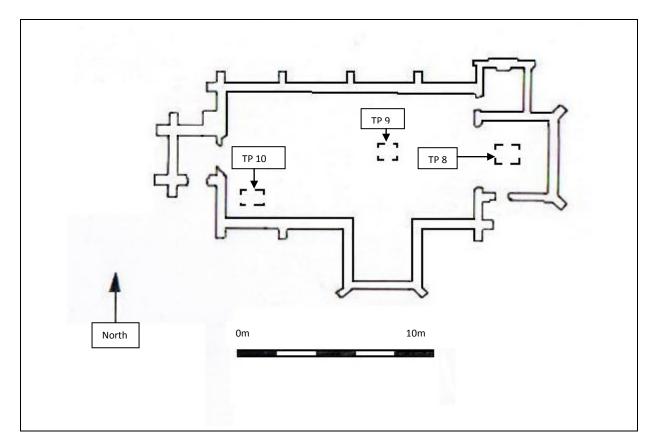


Figure 6. Location of Test Pits 8-10, St Andrew's Church, Thursby

The earliest stratigraphic element was compacted yellow brown sandy gravel  $\underline{56}$  that lay beneath a deposit of yellow gravelly sand  $\underline{53}$  that rested below a yellow brown sandy gravel  $\underline{52}$  that formed a make-up level for the re-built church circa 1846.

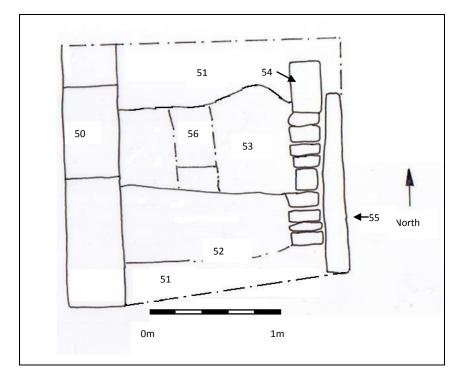


Figure 7. Plan of Test Pit 8

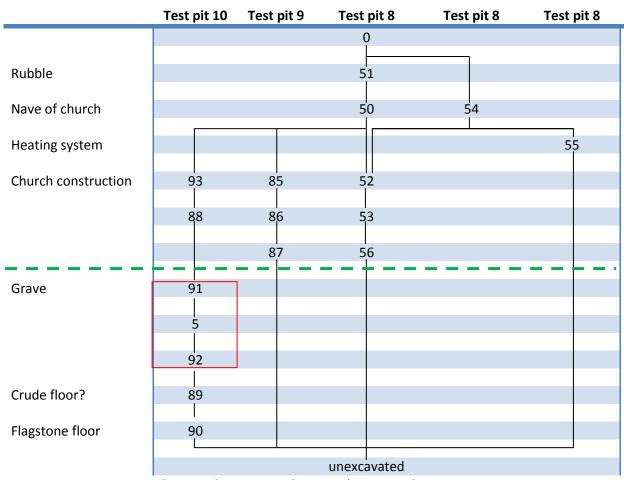
A single width western brick wall <u>55</u> possibly supported by a crude single brick and stone foundation 54 bonded with lime mortar probably formed a heating duct installed during the 1930s.

Sandstone paving slabs  $\underline{50}$  beneath a loose greyish rubble  $\underline{51}$  represented recent occupation and renovation conducted within the church.

#### Discussion

Layer <u>52</u> appeared to contain remnants of decayed wood that probably represented former coffins and human burials. It would appear highly probable that extant human remains existed within the chancel. This material also included occasional fragments of painted plaster probably consistent with the stripping and demolition of the Medieval church circa 1836.

Sand <u>56</u> may have been natural drift geology but burials are likely to be within this material, the backfill being similar to the drift geology.



Matrix showing the stratigraphic record uncovered in Test Pits 8-10

#### Test Pit 9

Test Pit 9 (figure 8) measured 1.72m x 1.39m, excavated to a depth of 0.63m and was located at the centre of the church nave. The pit was excavated to a depth of 0.50m below paving slabs  $\underline{50}$ .

The earliest deposit was brownish orange coarse sand <u>87</u> overlain by a surface of reddish-brown sand mixed with demolition debris and rubble <u>86</u> that rested beneath a blinding of sand <u>85</u>.





Figure 8. Test Pit 9

Figure 9. Test Pit 10

#### Discussion

Sand <u>87</u> probably represented natural drift geology but has been probably penetrated by unseen interments and considerably reworked.

Demolition debris <u>86</u> contained painted plaster and large fragments of worked sandstone and probably represented the demolition of the Medieval church between 1836 and 1845.

Blinding <u>85</u> provided bedding sand for the flagstone floor <u>50</u> to the nave and can be no earlier than 1846 but may be part of the major refurbishment in 1878.

### Test Pit 10

Test Pit 10 (figure 9) measured 1.80m x 1.40m and was excavated to a maximum depth of 0.36m.

The earliest deposit was a series of unbonded, pale red rectangular sandstone flags  $\underline{90}$  overlain by compacted pale brown sand  $\underline{89}$  containing small rounded pebbles and some broken rubble. This material was cut by rectangular east-west aligned grave  $\underline{92}$  that contained human skeleton  $\underline{5}$  and was backfilled with dark brown silty sand  $\underline{91}$ .

Grave <u>92</u> was sealed by pale brown and white sand <u>88</u> that contained building debris overlain by a blinding of reddish brown sand <u>93</u> that supported flagstone floor <u>50</u>.

# Discussion

Sandstone flags <u>90</u> appear to represent an earlier floor probably associated with the Medieval church that may have developed into a coarse floor <u>89</u>.

Grave  $\underline{92}$  was later inserted containing inhumation  $\underline{5}$ . This burial probably pre-dates the construction of the Victorian church that replaced the earlier medieval endowment but it is of unknown date. Certainly, this form of intra-mural burial would not have been possible after 1853 when the Metropolitan Burial Act of 1852 was extended to the whole of England and Wales (Litten 1991, 225).

Blinding <u>88</u> provided bedding sand for the flagstone floor <u>50</u> to the nave and can be no earlier than 1846 but may be part of the major refurbishment in 1878.

# 5.4 Excavation results; stratigraphic

The excavation component comprised of a series of linear trenches (figure 10) that stretched from the boiler room of the church to the church-gate adopting Test Pits 1-7 within its course. The nomenclature adopted was as follows:

- From the brow of the church yard beside the chancel door to the church-gate, the
  excavation encompassed Test Pits 1-7, each interval being entitled Area 1A, 2A, 3 A up to
  Area 7A.
- The east-west aligned limb from the chancel door was titled Area 11
- The widened right-angled junction between Area 11 and Area 13 was titled Area 12
- The north-south limb parallel to the chancel was titled Area 13
- The return into the boiler room was titled Area 14

The depth of the trench was governed by the invert level for the proposed drain. This varied from 0.60m to up to 1.20m in order to maintain a constant fall.

The constraints of the drain run impacted upon the documentation of the stratigraphic record. These limitations may be summarised as:

- 1. Amorphous definition of grave cuts through the upper stratigraphic sequence
- 2. Only contact with the excavated trench justified formal excavation, therefore features were only partially excavated, the stratigraphic matrix often illustrating merely physical relationships
- 3. Difficulty in isolating cross-cutting grave cuts
- 4. Re-working of soil containing disarticulated human bone
- 5. Poor condition of the human bone especially closer to the surface
- 6. Identifying multiple burials within a single grave

In order to isolate finds within generic layers e.g. topsoil and graveyard soil (charnel) a unique number was attached to each number.

The following matrices provide the stratigraphic framework for the archaeological sequence.

# Test Pit 1, Area 1A, Test Pit 2, Area 2A, Test Pit 3

The area between Test Pit 1 and Test Pit 3 appeared to exhibit three phases of burial separated by two horizons of graveyard soil containing charnel remains. Each area was covered by grass and topsoil <u>57-61</u>.

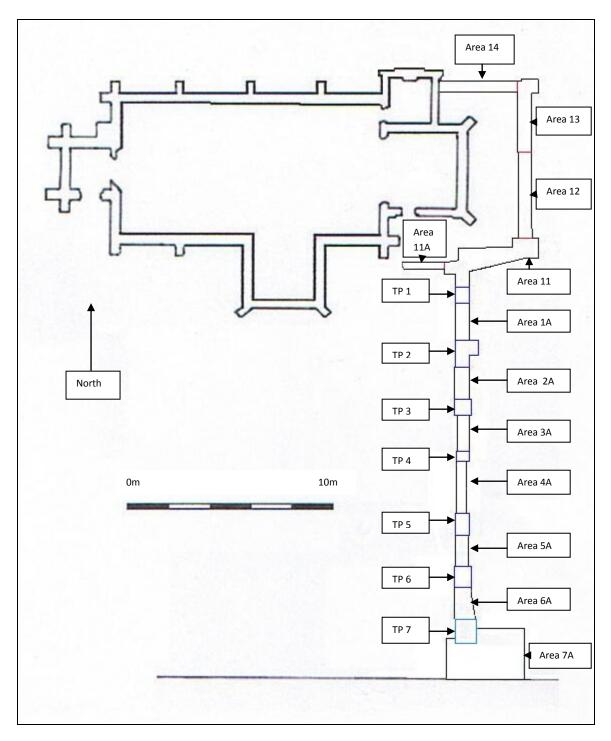
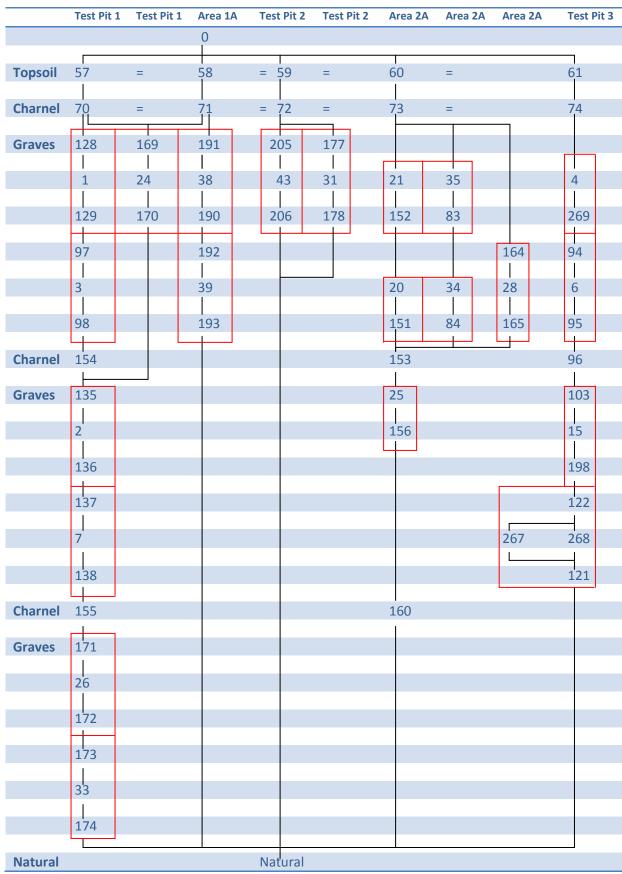


Figure 10. Location of excavation areas 1-14

### Phase 1 human burial

Within Area 1A was an east-west aligned grave  $\underline{174}$  (figure 11) that contained the lower legs and feet of an adult Christian inhumation  $\underline{33}$  within a former timber coffin covered by pale brown silty sand  $\underline{173}$ . This grave was cut by an east-west aligned grave  $\underline{172}$  (figure 12) that contained the left arm and torso of an adult burial  $\underline{26}$  aged 19-24 backfilled by pale brown silty sand  $\underline{171}$ .

This grave was covered by pale brown silty sand <u>155</u> that formed a graveyard soil and was probably the same as similar pale brown silty sand <u>160</u> observed in Area 2A.



Matrix showing the stratigraphic record uncovered in Test Pits 1-3 and Areas 1A-2A





Figure 11. Grave <u>174</u>, skeleton <u>33</u>

Figure 12. Grave <u>172</u>, skeleton <u>26</u> with skeleton <u>24</u>

# Phase 2 human burials

Within Area 1A was an unseen east-west aligned grave  $\underline{138}$  (figure 13) that contained the left shoulder and upper torso of an adult Christian inhumation  $\underline{7}$  covered by mid brown silty sand  $\underline{137}$ . This grave was cut by an unseen east-west aligned grave  $\underline{172}$  (figure 14) that contained the left side of a juvenile  $\underline{2}$  backfilled by mid brown silty sand  $\underline{135}$ .





Figure 13. Grave <u>138</u>, skeleton <u>7</u>

Figure 14. Grave 172, skeleton 2

Within Area 2A was an east-west aligned grave  $\underline{156}$  (figure 15) that contained the pelvis, spine, ribs, lower arms and upper legs of an adult skeleton  $\underline{25}$  aged 50-59 covered by a loose mid brown silty sand  $\underline{153}$  that formed a graveyard soil.





Figure 15. Grave <u>156</u>, skeleton <u>25</u>

Figure 16. Grave 198, skeleton 15

Within Test Pit 3 was an east-west aligned grave <u>121</u> that contained a pair of adult feet <u>267</u> and a second pair of adult feet <u>268</u> slightly lower within the grave, covered by soft grey-brown silty sand <u>122</u>. This material was truncated by grave <u>198</u> (figure 16) that contained the right legs and arms and pelvis of a juvenile skeleton <u>15</u> aged over seven, covered by a fill of mid brown silty sand <u>103</u> and sealed by a mid brown silty sand <u>96</u> that formed a graveyard soil.

### Phase 3 human burials

Within Test Pit 1 was an east-west aligned grave  $\underline{98}$  (figure 17) that contained a complete skull and upper body of an old female adult  $\underline{3}$  covered by dark brown silty sand  $\underline{97}$ . This material was truncated by a remnant grave cut  $\underline{129}$  that contained a pair of adult feet  $\underline{1}$  covered by dark brown sandy silt  $\underline{128}$ .

Within Area 1A were three graves of which two of these  $\underline{170}$  and  $\underline{190}$  were sealed by grey brown sandy silt  $\underline{71}$ .

An east-west aligned grave <u>170</u> that contained a complete skull and upper body of an adult <u>24</u> aged 25-35 covered by a dark brown silty sand <u>169</u>.

An east-west aligned grave  $\underline{193}$  that contained the left arm and partial torso of an adult  $\underline{39}$  covered by dark brown silty sand  $\underline{192}$ . This material was truncated by an east-west aligned grave cut  $\underline{191}$  (figure 18) that contained a complete skull and upper body of an elderly adult  $\underline{38}$  within a timber coffin covered by dark brown sandy silt  $\underline{190}$ .





Figure 17. Grave 98, skeleton 3

Figure 18. Grave 191, skeleton 38 with burial 39







Figure 20. Grave 206, skeleton 43

Within Test Pit 2 were two graves sealed by grey brown sandy silt <u>72</u>.

A remnant grave  $\underline{178}$  (figure 19) containing adult skull  $\underline{31}$  aged over 45 covered by dark brown silty sand 177.

An east-west aligned grave 206 (figure 20) that contained male adult leg bones 43 aged 45-49 covered by dark brown silty sand 205.

Within Area 2A were five graves of which three of these  $\underline{152}$ ,  $\underline{83}$  and  $\underline{165}$  were sealed by grey brown sandy silt  $\underline{73}$ .

An unseen grave cut  $\underline{151}$  (figure 21) containing a lower left leg for a sub-adult  $\underline{20}$  truncated by an unseen grave cut  $\underline{152}$  containing a skull  $\underline{21}$  for a sub-adult aged 7-10.

An unseen grave cut <u>84</u> (figure 22) containing a pair of adult feet <u>34</u> truncated by an unseen grave cut 83 also bearing a pair of adult feet 35 within a timber coffin.





Figure 21. Grave <u>151</u>, skeleton <u>20</u> with burial <u>21</u> Figure 22. Grave <u>84</u>, skeleton <u>34</u> with burial <u>35</u>

An east –west aligned grave cut  $\underline{165}$  (figure 23) containing a pair of lower legs and feet  $\underline{28}$  belonging to a sub-adult aged 8-9 covered by mid brown soft sandy silt  $\underline{164}$ .





Figure 23. Grave 165, skeleton 28

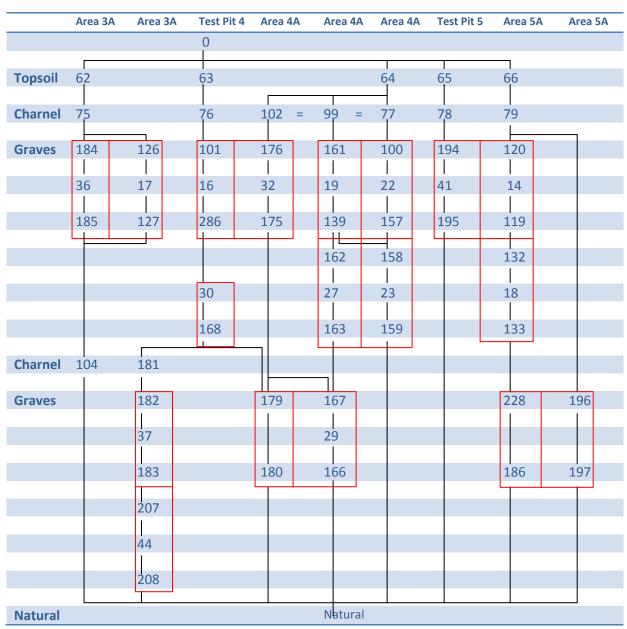
Figure 24. Grave 95, skeleton 6

Within Test Pit 3 was an unseen grave cut  $\underline{95}$  (figure 24) containing a pair of adult feet and a left tibia  $\underline{6}$  covered by mid brown silty sand  $\underline{94}$ . This fill was truncated by an unseen grave cut  $\underline{269}$  (figure 25) that contained a pair of adult lower legs  $\underline{4}$  sealed by grey brown sandy silt  $\underline{74}$ .



Figure 25. Grave 269, skeleton 4

# Area 3A, Test Pit 4, Area 4A, Test Pit 5, Area 5A



Matrix showing the stratigraphic record uncovered in Test Pits 4-5 and Areas 3A-5A

The area between Area 3A and Area 5A appeared to exhibit two phases of burial separated by a single horizon of graveyard soil containing charnel remains. Each area was covered by grass and topsoil <u>62</u>-<u>66</u>.

#### Phase 1 human burials

Within Area 3A was an east-west aligned grave cut <u>208</u> (figure 26) that contained the adult feet and lower legs of a human burial <u>44</u> bearing traces of a wooden coffin and covered by brown sandy silt <u>207</u>. This material was truncated by an east-west grave cut <u>183</u> (figure 27) that contained a set of adult feet and lower leg bones <u>37</u> within a timber coffin covered by brown sandy silt <u>182</u> sealed by a horizon of brown sandy silt <u>181</u> that formed a graveyard soil.





Figure 26. Grave 208, skeleton 44

Figure 27. Grave 183, skeleton 37

Within Area 4A were two graves 166 (figure 28) and 180 covered by grey brown sandy silt 75.

An east-west aligned linear grave cut  $\underline{166}$  containing one adult right foot and right lower leg  $\underline{29}$  covered by brown sandy silt  $\underline{167}$ . This grave was truncated by graves  $\underline{168}$  and  $\underline{175}$  discussed below.

An east-west aligned grave  $\underline{180}$  filled with brown sandy silt  $\underline{179}$  and left unexcavated. This grave was truncated by graves  $\underline{163}$  and  $\underline{175}$ .





Figure 28. Grave 166, skeleton 29

Figure 29. Grave 186, skull 36

Within Area 5A were two unexcavated graves 186 (figure 29) and 197.

An east-west aligned grave  $\underline{186}$  filled with brown sandy silt  $\underline{228}$  and left unexcavated. This grave was truncated by grave  $\underline{133}$ .

An east-west aligned grave <u>197</u> filled with brown sandy silt bearing a wooden coffin <u>196</u> and left unexcavated. This grave was situated beneath grey brown sandy silt <u>79</u>.

#### Phase 2 human burials

Within Area 3A were two graves 127 (figure 30) and 185.

A sub-rectangular east-west aligned grave cut  $\underline{185}$  that contained the top of an adult skull  $\underline{36}$  covered by a brown sandy silt 184.

An east-west aligned grave cut  $\underline{127}$  containing a pair of adult lower legs  $\underline{17}$  within a wooden coffin covered by soft brown silty sand  $\underline{126}$ .

Within Test Pit 4 was a poorly defined grave cut  $\underline{168}$  (figure 31) containing a right foot and some heavily decayed adult bones  $\underline{30}$  that was truncated by undefined grave cut  $\underline{286}$  that bore the left leg of adult skeleton  $\underline{16}$  covered by coffin and brown silty sand  $\underline{101}$  beneath grey brown sandy silt  $\underline{76}$ .





Figure 30. Grave 127, skeleton 17

Figure 31. Grave 168, skeleton 30

Within Area 4A were five graves <u>139</u>, <u>157</u>, <u>159</u>, <u>163</u> and <u>175</u> (figure 32).

An east-west aligned grave cut <u>175</u> containing a pair of adult feet and lower legs <u>32</u> filled by brown sandy silt <u>176</u> and covered by grey brown sandy silt <u>102</u> that formed a churchyard soil.





Figure 32. Grave <u>175</u>, skeleton <u>32</u>

Figure 33. Grave <u>159</u>, skeleton <u>23</u> with burial <u>22</u>

An east-west grave cut  $\underline{159}$  (figure 33) containing adult left foot and left lower leg  $\underline{23}$  filled by brown sandy silt  $\underline{158}$ . This material was truncated by an unseen grave cut  $\underline{157}$  that contained an adult left arm and left upper leg  $\underline{22}$  filled by brown sandy silt  $\underline{100}$  covered by grey brown sandy silt  $\underline{77}$  forming a churchyard soil.

An east-west aligned grave cut  $\underline{163}$  (figure 34) containing the left torso and arm of an adult  $\underline{27}$  filled by brown sandy silt  $\underline{162}$ . This feature was cut by an east-west aligned grave cut  $\underline{139}$  (figure 35) containing a pair of adult feet and lower legs  $\underline{18}$  within a timber coffin filled by brown sandy silt  $\underline{161}$  sealed by grey brown sandy silt  $\underline{99}$  that formed a churchyard soil.





Figure 34. Grave <u>163</u>, skeleton <u>27</u>

Figure 35. Grave 139, skeleton 18

Within Test Pit 5 was an east-west aligned grave cut  $\underline{195}$  (figure 36) containing two adult male leg bones  $\underline{41}$  filled by brown sandy silt  $\underline{194}$  covered by grey brown sandy silt  $\underline{78}$  that formed a churchyard soil.





Figure 36. Grave 195, skeleton 41

Figure 37. Grave 133, skeleton 19

Within Area 5A was an east-west aligned grave cut <u>133</u> (figure 37) containing a pair of adult legs and feet <u>19</u> within a timber coffin filled by dark brown silty sand <u>132</u>.

This material was truncated by an east-west aligned grave cut  $\underline{119}$  (figure 38) containing an adult left leg  $\underline{14}$  filled by a dark brown silty sand  $\underline{120}$  covered by grey brown sandy silt  $\underline{79}$  that formed a churchyard soil.



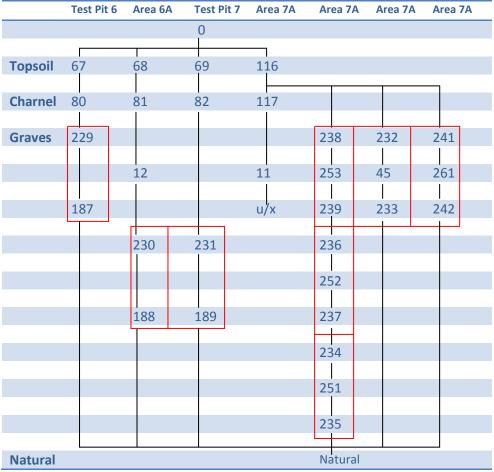
Figure 38. Grave 119, skeleton 14

Figure 39. Grave 188, skeleton 12

# Test Pit 6, Area 6A, Test Pit 7, Area 7A

The area between Test Pit 6 and Area 7A appeared to exhibit a single phase of burial sealed by a horizon of brown silty sand graveyard soil 80-82 and 117 containing charnel remains.

Each area was covered by grass and topsoil <u>67-69</u> and <u>116</u>.



Matrix showing the stratigraphic record uncovered in Test Pits 6-7 and Areas 6A-7A

#### **Human burials**

Within Test Pit 6 was an east-west aligned unexcavated grave cut <u>187</u> filled by brown sandy silt <u>229</u> covered by grey brown sandy silt <u>80</u> that formed a churchyard soil.

Within Area 6A was an east-west aligned unexcavated grave cut  $\underline{188}$  (figure 39) filled by brown sandy silt  $\underline{230}$  overlain by a single adult right femur  $\underline{12}$  covered by grey brown sandy silt  $\underline{81}$  that formed a churchyard soil.

Within Test Pit 7 was an east-west aligned unexcavated grave cut <u>189</u> filled by brown sandy silt <u>231</u> covered by grey brown sandy silt 82 that formed a churchyard soil.

Within Area 7A were five graves <u>233</u>, <u>235</u>, <u>237</u>, <u>239</u> and <u>242</u> and a burial <u>12</u>.

An east-west aligned grave cut <u>235</u> (figure 40) containing an adult skull and right upper arm <u>251</u> within a coffin burial filled by brown sandy silt <u>234</u>. This material was truncated by an east-west aligned grave cut <u>237</u> that contained an adult male skull, left arm and pelvis <u>252</u> aged 40-70 filled by brown sandy silt <u>236</u>. This material was cut by an east-west aligned grave cut <u>239</u> (figure 41) containing the skull and upper body of a well-preserved middle-aged adult skeleton <u>253</u> covered by brown sandy silt <u>238</u>.





Figure 40. Grave 235, skeleton 251 with burial 252 Figure 41. Grave 239, skeleton 253

An east-west aligned grave cut <u>233</u> (figure 42) containing a female adult skull and right shoulder <u>45</u> who died in old age within a coffin burial filled by brown sandy silt <u>234</u>.





Figure 42. Grave 233, skeleton 45

Figure 43. Grave 242, skeleton 261

An east-west aligned grave cut <u>242</u> (figure 43) containing the mid portion of two adult legs <u>261</u> within a coffin burial filled by brown sandy silt <u>241</u>.

The poorly preserved remains of an adult male arms and legs  $\underline{11}$  (figure 44) covered by brown silty sand  $\underline{117}$ .



Figure 44. Skeleton 11

# Area 11 and Area 12

Areas 11 and 12 appeared to exhibit a single phase of burial sealed by a horizon of brown silty sand graveyard soil  $\underline{110}$ - $\underline{112}$  containing charnel remains. Each area was covered by grass and topsoil  $\underline{105}$ - $\underline{107}$ .

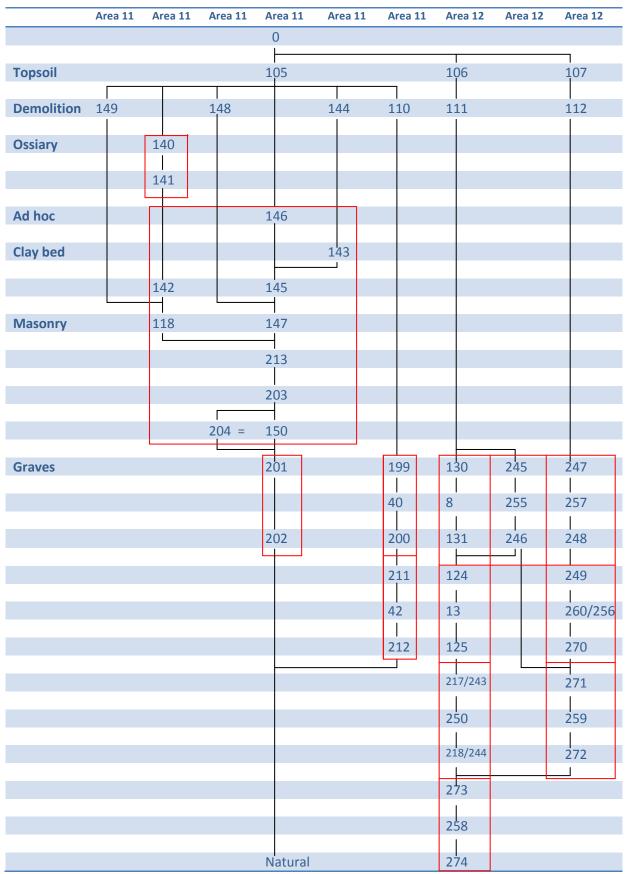
A masonry structure  $\underline{150}$  and a demolition horizon  $\underline{148}$  and  $\underline{149}$  associated with the re-building of the church were also evident.



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Figure 45. Grave 212, skeleton 42

Figure 46. Grave 200, skeleton 40



Matrix showing the stratigraphic sequence uncovered in Areas 11-12

#### **Human burials**

Within Area 11 were three graves 200, 202 and 212.

An east-west aligned grave cut <u>212</u> (figure 45) containing an adult left foot <u>42</u> filled by dark grey brown soft silty sand <u>211</u>. This material was truncated by an east-west aligned grave cut <u>200</u> (figure 46) that contained a pair of adult lower legs and feet <u>40</u> covered by a dark brown soft silty sand <u>199</u>.

An east-west aligned probable grave cut <u>202</u> filled by mid grey brown silty sand <u>201</u>, although no burial was recovered.

Within Area 12 were eight graves 125, 131, 218/244, 246, 248, 270, 272 and 274.

An east-west aligned grave cut  $\underline{274}$  (figure 47) containing a partial spine and pelvis  $\underline{258}$  belonging to a female adult covered by mid brown soft silty sand  $\underline{273}$ . This grave fill was cut by two graves  $\underline{218/244}$  and  $\underline{272}$ .





Figure 47. Grave 274, skeleton 258 with burial 259 Figure 48. Grave 272, skeleton 256 and 260

An east-west aligned grave cut <u>272</u> (figure 48) containing pelvis, spine and ribs <u>259</u> belonging to a sub-adult aged 8-9 filled by mid brown soft silty sand <u>271</u>. This material was truncated by a poorly defined grave cut <u>270</u> containing an adult right arm <u>256</u> and male adult spine <u>260</u> (probably the same individual aged over 40) covered by mid brown soft silty sand <u>249</u>. The backfill was in turn cut by east-west aligned grave cut <u>248</u> (figure 49) containing an adult left hand, upper legs and pelvis <u>257</u> within a timber coffin filled by dark brown soft silty sand <u>247</u>.





Figure 49. Grave 248, skeleton 257

Figure 50. Grave 218/244, skeleton 250

An east-west aligned grave cut  $\underline{218}/\underline{244}$  (figure 50) containing an adult skull and upper body  $\underline{250}$  who died in old age filled by a dark grey brown soft silty sand  $\underline{217}/\underline{243}$ . This material was truncated by a poorly defined grave cut  $\underline{125}$  (figure 51) containing a virtually complete juvenile  $\underline{13}$  aged 4-5 filled by a dark brown silty sand  $\underline{124}$  penetrated by graves  $\underline{131}$  and  $\underline{246}$ .





Figure 51. Grave 125, skeleton 13 Figure 52. Grave 131, skeleton 255

Cut by grave  $\underline{124}$  were an unseen grave cut  $\underline{131}$  (figure 52) containing a disturbed sub-adult  $\underline{8}$  filled by a dark brown silty sand  $\underline{130}$  and an east-west aligned grave cut  $\underline{246}$  containing a pair of female adult upper and lower leg bones  $\underline{255}$  covered by a mid brown soft silty clay  $\underline{245}$ .

### Masonry

Within an amorphous and unseen cut  $\underline{150/204}$  (figure 53) was a rectangular plan, masonry structure of uncertain form and function.

Rubble, stone and mid brown sandy silt <u>203</u> was the base for a red sandstone foundation <u>213</u> that supported a set of three flat stones <u>118</u> that stood at least two courses high. These rough hewn dressed blocks formed a north-south aligned wall bonded by clean pink clay <u>142</u>.

Extending eastwards from stones  $\underline{118}$  were dressed sandstone slabs  $\underline{147}$  that may have formed a crude wall or base and appeared to link a broken sandstone dressed masonry block bearing a slight chamfer  $\underline{146}$ . This stone appeared to be bonded to slabs  $\underline{147}$  via a bed of clean pink clay  $\underline{145}$ .

It would appear likely that some structural elements from this feature had been robbed as a bonding surface of pink clay  $\underline{143}$  very similar to clay  $\underline{145}$  was overlain by mid brown sandy clay  $\underline{144}$ , a material that appeared to infill a void.

A rectangular plan cavity  $\underline{141}$  formed within masonry  $\underline{118}$  and  $\underline{147}$  contained a cache of loose human limb bones within a loose brown silty sand  $\underline{140}$ . These bones appeared to be deliberately interred but consisted of only long bones and are presumably residual from a previous burial.

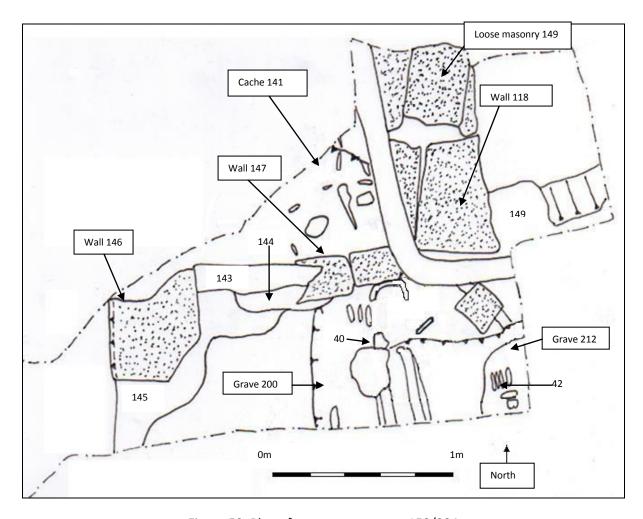


Figure 53. Plan of masonry structure 150/204

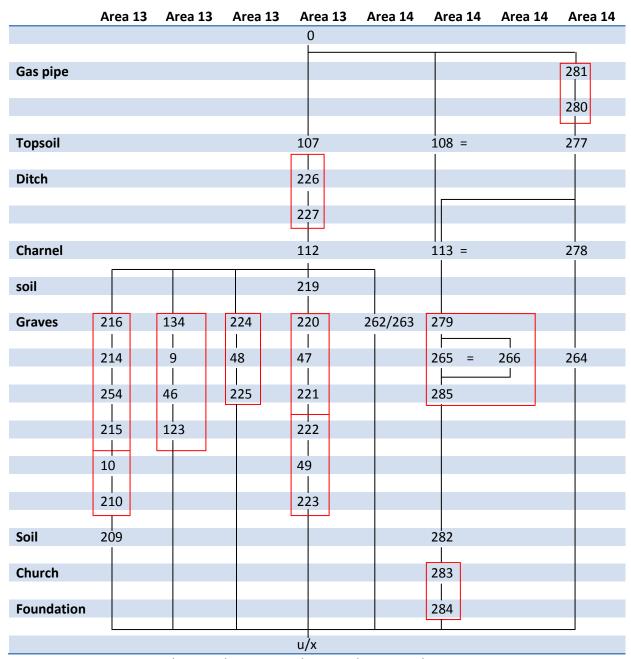
#### **Demolition horizon**

Butting wall  $\underline{147}$  was a spread of flat pebbles and cobbles grouted into coarse pebbly sand  $\underline{148}$  whilst butting wall  $\underline{118}$  was a spread of loose lime mortar with large red sandstone blocks  $\underline{149}$ . Both deposits probably represented a demolition horizon associated with the demise of the medieval church.

### Area 13 and Area 14

# **Church foundation**

Brown sandy silt <u>283</u> with building debris filled a north-south aligned vertical foundation trench <u>284</u> that contained the foundation to the church. Much of this material probably relates to the modern rebuilding of the church circa <u>1846</u> but as the foundation cut is recorded as being beneath a graveyard soil comprising brown sandy silt <u>282</u>, then the lower, undisturbed fill <u>283</u> probably relates to the medieval church fabric.



Matrix showing the stratigraphic record uncovered in Areas 13-14

### **Human burials**

Area 13 yielded six graves  $\underline{123}$ ,  $\underline{210}$ ,  $\underline{215}$ ,  $\underline{221}$ ,  $\underline{223}$  and  $\underline{225}$  and two other burials  $\underline{262}$  and  $\underline{263}$  of which graves  $\underline{123}$ ,  $\underline{215}$  and  $\underline{225}$  lay beneath a spread of brown silty sand  $\underline{112}$ , constituting a graveyard soil .

Cutting brown sandy silt <u>209</u> was an east-west aligned grave cut <u>210</u> (figure 54) containing upper legs and lower arm <u>10</u> belonging to a sub-adult aged 5-7 truncated by an east-west aligned grave cut <u>215</u> that contained sandstone slabs <u>214</u> forming a vault (figure 55) for the extant remains <u>254</u> of Robert Jackson who died in 1827 aged 76.

An unseen grave  $\underline{123}$  (figures 56 and 57) that contained male adult upper arms and torso  $\underline{46}$  with adult legs and hands  $\underline{9}$  aged 50-59 lain above. The grave was filled by dark brown silty sand  $\underline{134}$ .





Figure 54. Grave 210, skeleton 10

Figure 55. Vault 214 with skeleton 254





Figure 56. Grave 123, skeleton 46

Figure 57. Grave 123, skeleton 9

An east-west aligned rectangular grave cut  $\underline{223}$  (figure 58) containing an adult skull  $\underline{49}$  covered by grey brown silty sandy gravel  $\underline{222}$ . This material was truncated by an east-west aligned grave cut  $\underline{221}$  containing an adult skull and shoulder bones  $\underline{47}$  who died in old age filled by grey brown silty sandy gravel  $\underline{220}$ .





Figure 58. Skeletons <u>47</u>, <u>48</u> and <u>49</u>

Figure 59. Skeleton 264

A sub-rectangular plan grave cut  $\underline{225}$  that yielded a pair of adult feet  $\underline{48}$  covered by grey brown gravelly silty sand  $\underline{224}$ .

Two burials that had no discernible grave cuts were the mid portion of two adult legs <u>262</u> and a foot or feet 263 belonging to an adult aged 40-70, both covered by graveyard soil 112.

An upper leg and spine  $\underline{264}$  (figure 59) belonging to an adult aged 40-70 below grey brown sandy silt  $\underline{278}$  that represented a graveyard soil and lay beneath modern topsoil  $\underline{277}$ , disturbed by a modern cut  $\underline{280}$  filled by light grey brown silty clay  $\underline{281}$ , an action required to isolate the gas main when the church was alight in 2009.

Within Area 14 was an east-west aligned grave cut <u>285</u> that contained an adult skull, left arm and leg <u>265</u> (figure 60) aged 50-59 and an adult female long bone <u>266</u> aged 40-70, filled by dark grey brown sandy silt <u>279</u>. This arrangement was beneath brown sandy silt <u>113</u> that represented a graveyard soil beneath topsoil <u>108</u>.



Figure 60. Skeleton 265

## **Ditch**

Cutting graveyard soil  $\underline{112}$  was an east-west aligned linear ditch  $\underline{227}$  with a V-shaped profile filled by dark brown silty sand  $\underline{226}$ . This feature may have been associated with the rebuilding of the church.

# 5.5 Excavation results; human remains (Kate Griffiths)

## **General Assemblage Condition**

In general, the condition of the excavated bone was good, with, in most cases only moderate surface erosion. It was possible to recover the small bones of the hands and feet from many of the graves, and, as the graveyard had been well tended and kept clear of vegetation bioturbation was minimal.

## **Assemblage Demography**

In total the articulated remains of sixty-seven individuals were recovered from the excavation at St Andrews Church. When considering this assemblage, it is worth noting that the surrounding headstones were elaborately carved, that probably indicated the burial of relatively wealthy individuals, whilst the burial ground itself (south side, near the east end of the church) was

traditionally the more desirable, and therefore more expensive part of the churchyard in which to be interred.

### **Sub-Adults**

There were ten sub-adults in the assemblage, and only one of these was a neonate (0-3 months). In most late post medieval cemetery assemblages a higher proportion of very young children can be expected as 19<sup>th</sup> century rates of infant mortality were high, with around 25% (appreciably greater in urban communities) of babies dying within the first year of life. It is probable that this is the result of variable formation processes or a sampling bias in which further young children would have been encountered if a larger area of the cemetery had been excavated. However, this variation could reflect relatively high standards of hygiene, sanitation and nutrition for a proportion of the children born in Thursby during this period especially those from a wealthier social echelon.

### **Adults**

It was not possible to assign sex to twenty-nine of the adult individuals due to the incomplete nature of the remains. Of the remainder, nine were positively identified as male and seven as female. There were ten individuals who were possibly male, and two who were possibly female.

As always, with incomplete archaeological remains the potential to assign sex depends on preservation and recovery, and there is a recognised bias of around 12% in favour of the identification of males (Weiss, 1972), which may well account for the higher number of males than females identified in this assemblage.

Approximately one third (eighteen of fifty-seven) of the adult sample appeared to have been at least 50+ years of age, if not considerably more, when they died. Average life expectancy in 1837 was in the late thirties whilst the 1841 census records averages of 40.2 years for men and 42.2 years for women.

These mortality rates had advanced to approximately 48 years by 1901, therefore many of the individuals from Thursby appear to have had relative longevity in comparison with the national averages. This could either be due to the fact that the assemblage consists of the wealthier individuals from this community, or reflect a generally higher standard of living in a rural community compared to the chronic poverty, overcrowding and insanitary conditions that were prevalent in urban areas at this time.

Almost certainly the relative late age of death is due to the sample group representing a relatively affluent and influential section of the local community who could afford the cost of a gravestone and sought to be remembered following death.

## **Pathology**

The majority of the pathologies observed in the St Andrew's Church assemblage were age related degenerative changes. Intervertebral disc disease was observed in eleven individuals, and varying degrees of osteoarthritis was also common.

There were two instances of osteoarthritis in the elbow, which may indicate that these individuals had at some point during their lifetime been engaged in heavy manual labour.

The only pathology that was likely to have been the result of trauma was the probable ossified ligament observed on skeleton 29.

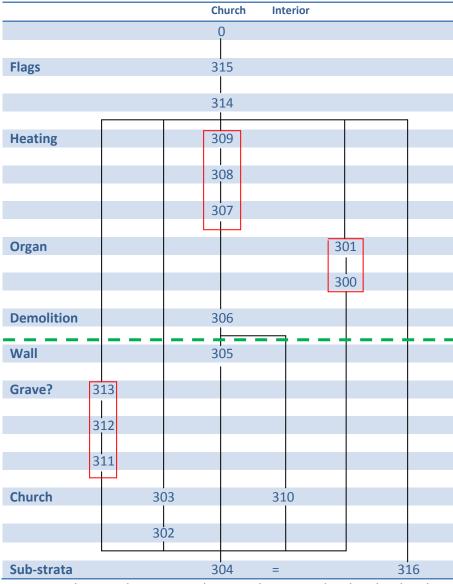
The periosteal bone growth seen in the distal fibulae of skeleton <u>17</u> may have been the result of stress or trauma in these areas, but may equally have been age related.

There was little evidence of obesity in the assemblage, with only two individuals (18 and 261) showing signs of this condition.

The dental health of the sample was generally poor, but this is not at all unusual for assemblages from this period. The prevalence of dental disease in English post-medieval populations can be seen in the Spitalfields Collection where 87% of 968 individuals had dental caries, and a common cause of death recorded in the 18<sup>th</sup> century London Bills of Mortality was 'teeth' (Waldron, 2009, 240).

# 5.6 Watching brief results

The watching brief (figure 61) consisted of a monitoring exercise within the church to observe any putative archaeological remains upon lifting of the flagstones within the nave.



Matrix showing the stratigraphic record uncovered within the church

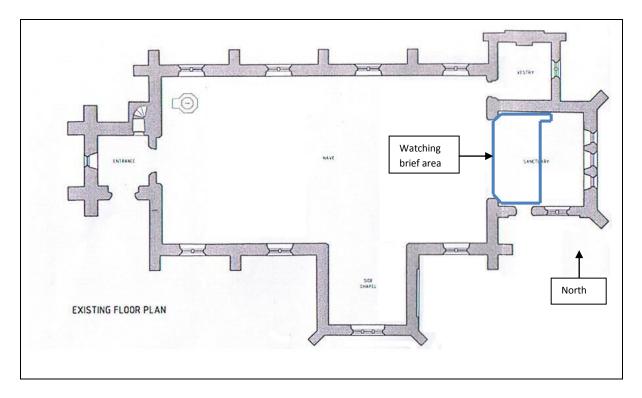


Figure 61. Watching brief area with the church

The new floor required a reduction of 0.25m in order to insert the blinding and bedding for the new surface. Only the area around the altar (sanctuary) was sufficiently reduced whereupon archaeological remains were observed and recorded, elsewhere only modern masonry waste and sand was encountered.

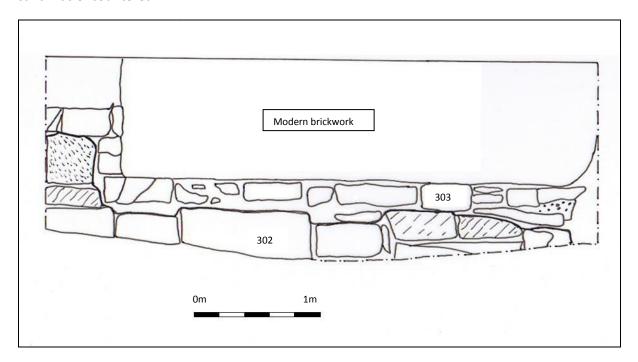


Figure 62. South facing section showing possible original stonework 302 and rebuild 303

#### Altar area

The earliest deposit encountered was the probable truncated remains of the Medieval church.

A well-dressed masonry pier base <u>302</u> (figure 62) indicated that the former ground surface was 0.20m lower than the current level. This pier supported an octagonal red sandstone column subsequently rebuilt during the Victorian restoration.

Aligned east of this pier, a wall was observed comprising dressed but coarse stone blocks that may have been a foundation for the Medieval church. Above this footprint was a coarse wall 303 (figure 63) formed from smaller stone blocks lacking a bonding agent that was truncated by a modern brick wall probably post-dating the Victorian rebuilding of the church.

A hard compacted orange-brown sandy surface <u>310</u> (figure 65) may represent a contemporary ground surface.



Figure 63. Possible earlier church fabric 302 and 303 Figure 64. Possible stone-lined inhumation 311

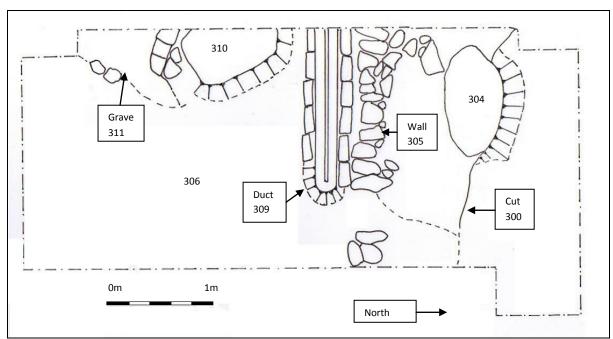


Figure 65. Plan of the watching brief area near the altar inside the church

Within the Medieval church was a grave <u>311</u> (figure 64), lined with stone <u>312</u> and filled by brown sand <u>313</u> with articulated human bones being present. This feature was left unexcavated but penetrated mixed red-brown pebbly sand <u>304</u> that probably indicates re-worked natural drift geology that may yield further unseen burials. This horizon was repeated throughout the church as mixed orange-yellow sand <u>316</u>.

A crude low stone wall <u>305</u> (figure 66) aligned east-west comprising rounded boulders lacking mortar may belong to the pre-Victorian church, perhaps surmounted by a crude timber partition. However, the lack of stratigraphic security regarding this feature provides considerable doubt and it may have served as a crude joist supporting the floor of the later 19<sup>th</sup> century church.





Figure 66. Low wall 305

Figure 67. Removal of floor within the church

Following demolition of the Medieval church in 1836, the rubble appears to have been spread into a levelling deposit of light orange brown sandy gravel 306, a horizon that was largely left untouched.

Following construction of the Victorian church, an organ pit  $\underline{300}$  (figure 65) was inserted filled with brown sandy silt  $\underline{301}$  and a heating duct  $\underline{307}$  filled by a low casing wall  $\underline{308}$  and a looped pipe  $\underline{309}$ .

The latest and final action (figure 67) was the laying of sandstone flags 315 upon a bedding sand 314.

#### 5.7 Finds and environmental material

## Headstones

The excavated trench ran parallel to two rows of headstones arranged north-south along the path from the southeast door of the church to the southeast gate of the churchyard, with inscriptions naming multiple family members and dates of interment ranging from 1746 to 1870. However, although it was not possible to consult a grave plan, it is likely that these headstones were not in their original positions. There were a number of interments that did not appear to relate to a headstone, and a depiction of the church (date unknown, but probably 19<sup>th</sup> Century) shows the path aligned diagonally across the churchyard from the gate to the southwest door of the church. The headstones may well have been reorganised in order to accommodate the new alignment of the path when the church was refurbished in 1878.

## **Coffins and Fittings**

Coffin grip plates (figure 68) with handles applied to the side of the casket were encountered in burials  $\underline{17}$  (SF 4 and 5),  $\underline{18}$  (SF 9),  $\underline{35}$  (SF 11) and  $\underline{126}$  (SF 10) and graveyard soil  $\underline{153}$  (SF 8). These grip plates and handles were made from spelter (except handle  $\underline{126}$ ), a zinc alloy containing lead, used as a substitute for bronze frequently used in the  $\underline{19}^{th}$  century for cheap, mass-produced ornate items.

Heavily corroded Fe coffin nails were recovered from human burials  $\underline{18}$ ,  $\underline{19}$ ,  $\underline{33}$ ,  $\underline{37}$ ,  $\underline{38}$  and  $\underline{257}$ , grave fills  $\underline{101}$  and  $\underline{126}$  and generic graveyard soils  $\underline{75}$  and  $\underline{181}$ .

Heavily desiccated timber planks forming wooden coffins were recovered from burials <u>18</u>, <u>32</u>, <u>35</u> and <u>37</u>. The wood was impossible to identify with certainty (possibly pine) but appeared to be approximately no more than 10mm in thickness.

Unidentified textile was recovered from graveyard soil <u>100</u> indicating that some coffins had been embellished with a lining.

The coffins encountered during the excavations at St Andrew's Church were all constructed of wood (with evidence of lead and copper alloy lining in some cases) and a selection of fittings such as shroud pins, nails, grip plates and handles were also recovered. The iron fittings were badly corroded but some of the fittings were relatively well preserved and show designs typical of the 19<sup>th</sup> century (Litten, 1991).



Figure. 68. Grip plates and handles from burials <u>17</u> (SF 4 left) and <u>35</u> (SF 11 right).

## **Pottery**

Two pot sherds were recovered during the fieldwork:

• A single rim sherd of orange sandy ware <u>120</u> belonging to the Roman period discovered within grave <u>119</u>.

• A single body sherd of green-glazed orange sandy ware <u>107</u> dating to the 13<sup>th</sup>-15<sup>th</sup> Century discovered within the topsoil near the eastern end of the church.

Both sherds were from residual contexts and possess little significance.

## **Building materials**

From context <u>52</u> (Test Pit 8) fragments of broken dressed stone masonry possibly Medieval in origin were encountered as were fragments of plain lime plaster, probably deposited during the demolition of the church in 1836.

### **Small finds**

Eleven small finds were recovered. These are briefly described below in the following table.

SF	Context	Area	Description	Identification
1	283	14	A small square stone 11mm x 10mm probably a die but lacking detail	Die
2	107	13	Charles II sixpence dated 1679	6d coin
3	111	12	Small thin cylindrical lead tube with decoration	Vial?
4	17	3A	Plain spelter coffin handles, south side of burial	Coffin handle
5	17	3A	Plain spelter coffin handles, north side of burial	Coffin handle
6	24	1A	Undecorated cu alloy shroud pin 16mm x 1mm, poorly preserved	Shroud pin
7	86	9	Fe shield-shaped padlock 70mm x 85mm x 24mm	Padlock
8	153	2A	Plain spelter coffin plate with cu alloy handle	Coffin handle
9	18	5A	Two plain spelter coffin plates with handles	Coffin handle
10	126	7A	Heavily corroded Fe coffin handle	Coffin handle
11	35	2A	Decorated spelter coffin plate with handle	Coffin handle

The small "die" (SF 1) was found within the backfill albeit adulterated belonging to the Medieval church and may have a Medieval origin.

The sixpence (SF 2), the possible lead vial (SF 3) and padlock (SF 6) were discovered in topsoil and are attributable to chance loss.

# **Environmental samples**

Due to the frequent re-working of soil due to grave-digging within the church yard, no environmental samples were worthy of collection.

### 5.8 Discussion

The prominent location of the study area and the relative antiquity of the church suggested that archaeological deposits of academic interest may potentially have been encountered.

These considerations may be summarised as

- A conspicuous location that may have been suitable for a Roman watchtower
- Trace archaeology that may have indicated a pre-Medieval church
- Masonry and ancillary structures associated with the Medieval church
- Medieval burials within the church especially in close proximity to the altar (sanctuary) typically associated with the higher ranks of the clergy

The results of the archaeological reconnaissance did not provide any evidence for these possibilities. Maintaining the strictures of "preservation in situ" further denied exploration. Moreover, the limitations of small-scale excavation and thereby drawing misleading detailed interpretation as outlined by Warwick Rodwell (Rodwell 2005, 169) were also borne out.

The human bone assemblage recovered appeared typical of an 18<sup>th</sup> to early 19<sup>th</sup> century rural burial practice with no graves appearing to be of a conspicuously earlier date.

The majority of interments were simple graves with the corpse placed in a timber coffin. The timber fabric slowly desiccated leaving little tangible remains. However, burials at a greater depth tended to exhibit improved preservation (Ibid, 177).

Embellishments such as grips or coffin plates were evident on some coffins but the majority of inhumations appeared to be lacking such ornamentation.

Evidence for kin groups could not be derived from the bone assemblage but almost certainly occurred as multiple burials were present within graves. Moreover, epigraphic evidence on individual gravestones often detailed three or four generations of the same family, whilst spatial clustering of family groups was also intimated by recurring surnames occurring on adjacent tombstones. Assuming that this practice was commonplace, a roughly equal male/female sex ratio would be expected. The partial nature of the sampling strategy however precluded whether this assertion could be challenged.

Attempts to identify excavated individuals from the grave marker proved unreliable.

During a re-organisation of the churchyard in 1878, gravestones were displaced and ordered into rows approximately 2.30m apart. This spatial order did not accurately respect the location of individual grave plots, corroborated during excavation.

Identification of only individual could be ascertained; Robert Jackson who died in 1827 aged 76 corresponding to skeleton <u>254</u> and whom was interred in the only tomb that was a stone vault <u>214</u>.

The social profile of the assemblage probably obeyed an economically successful and socially stable farming community who could afford the cost of a conspicuous funeral rite and memorial stone.

Beneath the squire and gentry social strata who would have been buried within established family vaults or the church itself (Ibid, 174-175), this social group would have reflected small-scale landowners or tenant farmers who endured a generally physically exacting lifestyle but avoided

crushing poverty, synonymous with premature death in the lower social orders; the labouring class found in both rural and urban environments.

Masonry structure <u>150</u> was not understood. Comprising unbounded dressed sandstone blocks, it did not appear to possess any superstructure and may not have been visible above ground. However, it did not appear to be a vault although burials were located in close proximity. Possibly, this was either an *ad hoc* structure possibly associated with the adjacent church or a partially demolished monument such as a *mausoleum*.

### 6. ARCHIVE

The archive has been compiled in accordance with the project design and the guidelines set out by English Heritage (1991) and the Institute of Field Archaeologists (1994, 2001 and 2007).

The archive will be deposited with an appropriate repository, namely Tullie House Museum, Carlisle and a copy of the report donated to the County Sites and Monuments Record, as requested by the curatorial authority.

## 7. ACKNOWLEDGMENTS

I am grateful to Mr Ernest Shimmins, the Project Manager and commissioning officer from A.L.Daines Ltd for his collaboration on this project and Mr Paul Atkinson from Cubby Construction Ltd for his technical expertise regarding the redevelopment of the site.

I am also very grateful to Stephen Blake (Cubby Construction Ltd) for his day-to-day assistance with the project and sound advice and also to his staff who were very co-operative and helpful.

I would also like to thank the staff of Carlisle Library with my research into the local history of the area and the staff of Cumbria Record Office, Carlisle with the map regression and other documentary research.

Churchwarden Eileen Wilson provided invaluable assistance regarding the history of St Andrew's Church, Thursby whilst Brian Cook from Carlisle Cathedral clarified the condition requested by the Diocesan Advisory Committee.

Thanks are especially due to Richard Woolley who supervised the fieldwork, Kate Griffiths for the extensive osteological report and her expertise on site whilst the remains were lifted, Carl Savage for his assistance in the field and identifying the coin, Marcus Headifen for his fieldwork and Jo Beaty for undertaking the watching brief within the church. All showed admirable tolerance and fortitude as the fieldwork was undertaken in extremely inclement weather.

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#### **APPENDIX B**

# **Coin report**

Site Code: SAT10 Small finds Number: 2 context Number: 107 (area 13)

Monarch: Charles II (r1660-85)

Obverse description: Laureate bust facing L with short hair, bust is draped and is in the centre of the flan with the legend on the edge reading L-R

Obverse Inscription: CAR II D G SCO AN FR ET HIB R (Charles II by the grace of god king

of Scotland, England, France and Ireland)

Reverse description: Crowned thistle in the centre, legend reading R-L date at the end of legend at 10 O'clock

Reverse Inscription: NEMO ME IMP[UNE LACE]ESS[ET] 1679 (No one attacks me with impunity)

Denomination: Bawbee (Six pence)

Date: 1679

Mint Mark: None

Place of mint: Edinburgh

Manufacture Method: Early milled (Screw Press)

Material: Copper alloy

Die axis:

Diameter: 21mm

Condition/Grade: Fine

Reference: SPINK 5628

General notes: The coin is in good condition. The detail on the centre of the thistle shows that the coin couldn't have been in circulation for a long time, though the obverse does show a bit more degree of ware from circulation due to the smoothness. The coin does have a moderate amount of environmental ware due to the green/dark brown colour and the reverse legend is slightly erased. There is also a small degree of roughness on the obverse mostly the bust caused by environmental ware.

Found by and date: Carl Savage 12/11/10

Identified by: Carl Savage Bsc

Recorded by: Carl Savage Bsc

Excavation of the graveyard at St Andrews Church, Thursby, Cumbria