

**LAND OF GELLYSWICK ROAD, HAKIN,
MILFORD HAVEN, PEMBROKESHIRE:
ARCHAEOLOGICAL APPRAISAL
SM 89112 05878**



Prepared by
Dyfed Archaeological Trust
For: Pembrokeshire County Council



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LAND OF GELLYSWICK ROAD, HAKIN, MILFORD HAVEN, PEMBROKE SHIRE: ARCHAEOLOGICAL APPRAISAL SM 89112 05878

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**LAND OF GELLYSWICK ROAD, HAKIN, MILFORD HAVEN,
PEMBROKESHIRE:**

ARCHAEOLOGICAL APPRAISAL

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**LAND OFF GELLYSWICK ROAD, HAKIN, MILFORD HAVEN,
PEMBROKESHIRE:
ARCHAEOLOGICAL APPRAISAL**

SUMMARY

An archaeological appraisal was undertaken by DAT Archaeological Services on behalf of Pembrokeshire County Council for a new school, 'Hakin Community School,' on land off Gellyswick Road, Hakin, Milford Haven, Pembrokeshire. This report will be used by planners to make an informed decision on the proposal with regards to archaeology and the historic environment.

The proposed school is located on land to the east of Gellyswick Rd, adjacent to but excluding the rugby football ground for Milford Haven R.F.C. A small area for development also lies on the west side of Gellyswick Rd occupying a roughly triangular shaped area. The site lies 1km west of Milford Haven and is roughly centred on NGR SM 89112 05878.

The proposed school lies within the boundaries of the Milford Haven Historic Landscape Categorisation Area, an area characterized mainly by 18th-20th century housing development. The Milford Haven Waterway Site of Special Scientific Interest and the Pembrokeshire Marine Special Area of Conservation lie to the south of the proposed site, and there is a Registered Garden at Castle Hall, 2.5km to the east.

There are twelve Scheduled Ancient Monuments, one grade I listed building and ten grade II listed buildings within 3km of the proposed school. Within 1km of the site there are twelve grade II listed buildings and ninety six known archaeological sites recorded on the Dyfed Historic Environment Record.*

A site walkover survey was conducted on 8th October 2015 in order to further assess the physical and visual impact of the development.

It is concluded that there will be no physical impacts on any known archaeology within the development site. There is low potential for archaeological remains to be present within the site area. There is a low potential that a former windmill was present within the area prior to 1840, as indicated by a place name on the Tithe Map. A small structure is also indicated within the area on early Ordnance Survey maps. Roman coins have been found in the vicinity, but not in enough concentration, or in association with other artefacts to suggest activity within the site area. Potentially the area has been previously levelled when the adjacent rugby pitches or the housing estates were constructed.

No visual or setting impacts of any significance have been identified within the appraisal that would affect any archaeological or historical designated sites. Inter-visibility with nearby scheduled monuments, listed buildings or conservation areas is mostly very limited or non-existent. Hakin Observatory and Hubberstone Fort do lie close to the site area and there will be some inter-visibility here, although the level of impact is considered low as the sites already lie within areas of modern housing and development.

It is considered possible that a watching brief may be required during groundworks associated with the construction of the school and associated infrastructure. The decision for any further programme of archaeological works and its scope lies with the Archaeological Advisor to the local Planning Authority.

1 INTRODUCTION

1.1 Project Proposals and Commission

- 1.1.1 DAT Archaeological Services were commissioned by Pembrokeshire County Council to prepare an archaeological appraisal for the proposed development of a new school on land off Gellyswick Rd, Hakin, Milford Haven, Pembrokeshire. The resulting report will enable the planners to make an informed decision on the proposal as regards to archaeological and historic environment issues.
- 1.1.2 The proposed school, 'Hakin Community School,' is located on land to the east of Gellyswick Rd, adjacent to but excluding the rugby football ground for Milford Haven R.F.C. A small area for development also lies on the west side of Gellyswick Rd occupying a roughly triangular shaped area. The site lies 1km west of Milford Haven and is roughly centred on NGR SM 89112 05878 (Figures 1 & 2).
- 1.1.3 The appraisal has been produced in accordance with a generic brief supplied by the Planning Services section of Dyfed Archaeological Trust.

1.2 Scope of the Project

- 1.2.1 The appraisal is presented as a fulfilment of a Written Scheme of Investigation (Appendix 1) working to a brief provided by the archaeological advisors to the planning authority (the Planning Services section of Dyfed Archaeological Trust). This appraisal is not a full desk-based assessment of the potential historic environment resource. Rather, it is a more rapid piece of work involving readily available information to assess the historic environment potential.
- 1.2.2 The results are intended to identify the extent and character of the known and potential archaeological resource, to assess the likely and potential impacts of the scheme on that resource and, if required, to outline a possible programme of further works to mitigate those impacts. The appraisal should be seen only as the first stage of the archaeological process and does not include the possibility that further archaeological input may be required prior to, or during, the proposed development.
- 1.2.3 The proposed new school lies within the planning jurisdiction of Pembrokeshire County Council.
- 1.2.4 The archaeological appraisal was limited to the resources held in the regional HER, a site visit and on-line resources.
- 1.2.5 Considering the potential size and nature of the proposed new school a 3km radius search area was considered sufficient with which to evaluate visual effects on designated archaeological sites and elements of the historic environment (Scheduled Ancient Monuments, registered Historic Landscapes, registered Parks and Gardens, Grade I and II* Listed Buildings). A 1km radius search area was used to establish the presence of Grade II listed buildings and buried archaeological potential using information held on the Dyfed Historic Environment Record and the RCAHMW National Monuments Record.

1.3 Abbreviations

1.3.1 All sites recorded on the regional Historic Environment Record (HER) are identified by their Primary Record Number (PRN) and located by their National Grid Reference (NGR). Sites recorded on the National Monument Record (NMR) held by the Royal Commission on the Ancient and Historical Monuments of Wales (RCAHMW) are identified by their National Primary Record Number (NPRN). Scheduled Ancient Monument (SAM). Altitude is expressed to Ordnance Datum (OD). References to cartographic and documentary evidence and published sources will be given in brackets throughout the text, with full details listed in the sources section at the rear of the report.

1.4 Illustrations

1.4.1 Printed map extracts are not necessarily reproduced to their original scale.

1.5 Timeline

1.5.1 The following timeline (Table 1) is used within this report to give date ranges for the various archaeological periods that may be mentioned within the text.

Period	Approximate date	
Palaeolithic –	c.450,000 – 10,000 BC	Prehistoric
Mesolithic –	c. 10,000 – 4400 BC	
Neolithic –	c.4400 – 2300 BC	
Bronze Age –	c.2300 – 700 BC	
Iron Age –	c.700 BC – AD 43	
Roman (Romano-British) Period –	AD 43 – c. AD 410	Historic
Post-Roman / Early Medieval Period –	c. AD 410 – AD 1086	
Medieval Period –	1086 – 1536	
Post-Medieval Period ¹ –	1536 – 1750	
Industrial Period –	1750 – 1899	
Modern –	20th century onwards	

Table 1: Archaeological and Historical Timeline for Wales

¹ The post-medieval and Industrial periods are combined as the post-medieval period on the Regional Historic Environment Record as held by Dyfed Archaeological Trust

2 LOCATION AND TOPOGRAPHY

- 2.1 The proposed school is located on land to the east of Gellyswick Rd, Hakin, adjacent to but excluding the rugby football ground for Milford Haven R.F.C. A small area for development also lies on the west side of Gellyswick Rd occupying a roughly triangular shaped area. The site lies 1km west of Milford Haven and is roughly centred on NGR SM 89112 05878 (Figures 1 & 2).
- 2.2 The study area occupies generally flat ground with gentle slopes in the southwest, overlooking Gellyswick Bay on the North side of the Milford Haven waterway.
- 2.3 The underlying solid geology of the site consists of Argillaceous rocks and sandstone of the Milford Haven Group which straddle the early Devonian – late Silurian periods (Pragian Age to Ludlow Epoch). Geological information has been obtained through the British Geological Survey mapping portal.

3. METHODOLOGY

- 3.1 This Historic Environment Appraisal followed the required methodology laid out in the written scheme of investigation (Appendix 1), which was prepared in response to a generic brief prepared by DAT Planning Services.

Desk Top Study

- 3.2 Computer-based and other resources within the Regional HER were consulted in the preparation of this document. Sufficient information was consulted to inform comment on the goals of the appraisal. GIS layers were used to assess and illustrate what the likely effects of the proposals upon the historic environment might be.
- 3.3 Designated historic environment assets (Scheduled Ancient Monuments, Listed Buildings, Historic Landscape Characterisation Areas, Historic Parks and Gardens) were identified within a 3km radius centred on the proposed wind turbine location. Grade I and II* buildings within 3km were identified, and grade II listed buildings were considered within 1km of the site. The potential visual effect of the proposed wind turbine on the settings of the designated sites within this area was then evaluated.
- 3.4 Non-designated archaeological and historic sites were identified within a 1km radius centred on the proposed wind turbine site. This area was considered sufficient to enable an assessment of the archaeological potential of the site area to be made.

Site Walkover Survey

- 3.5 A detailed site visit was undertaken on the 8th October 2015. The visit comprised a walkover of the proposed school site and the surrounding area and also incorporated looking at the wider area for views looking back to the proposed development location from designated and other sites. Photographs were taken and field observations recorded in note form.

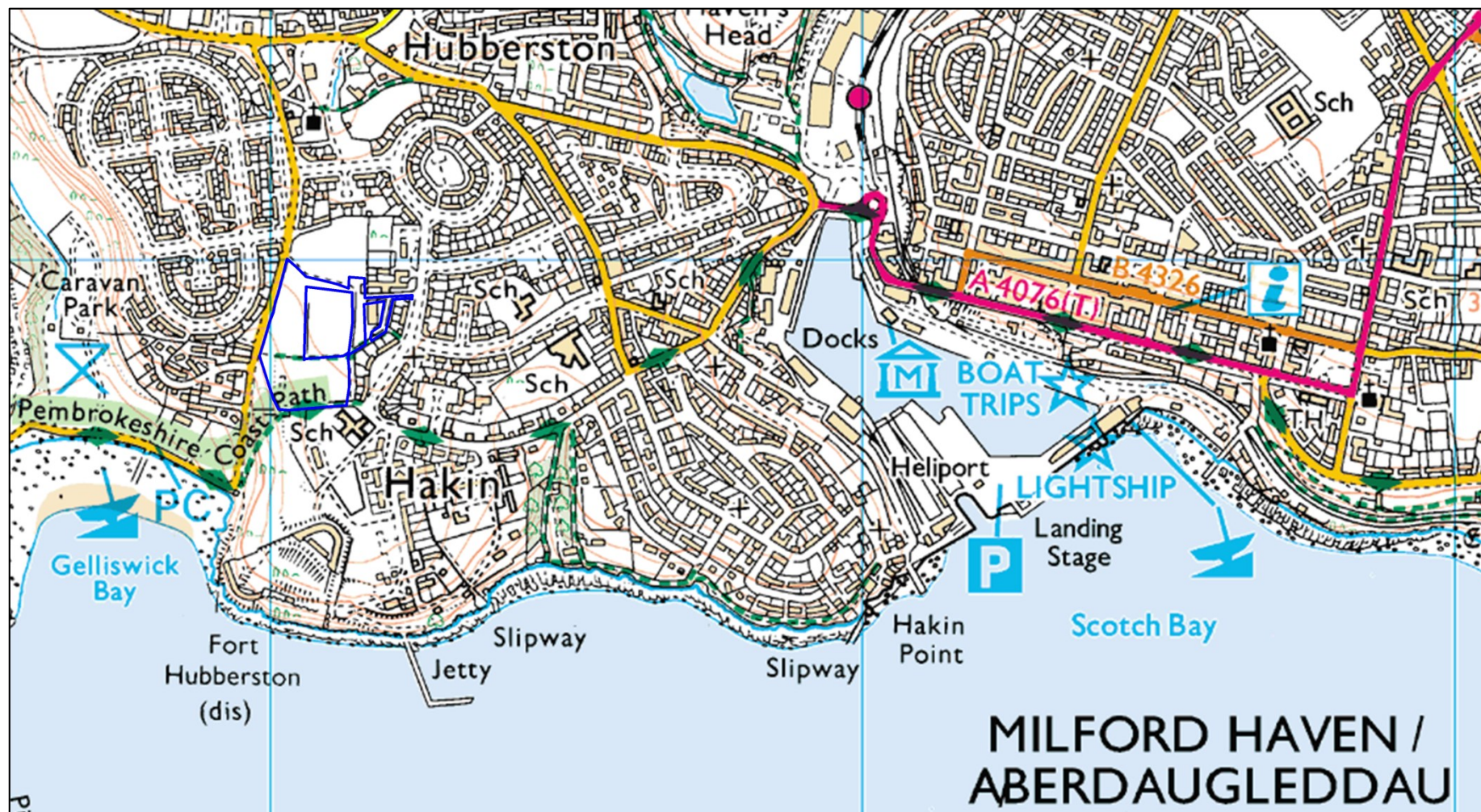
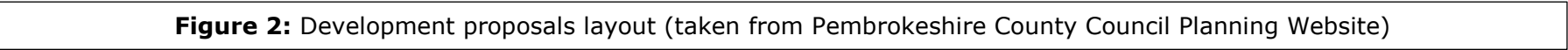


Figure 1: Location map based on the Ordnance Survey. Proposed development site outlined in blue

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4. ARCHAEOLOGICAL AND HISTORICAL BACKGROUND

4.1 The Historic Landscape

- 4.1.1 The proposed school lies within the boundaries of the Milford Haven Historic Landscape Categorisation Area (HLC 307) recorded on the Register of Landscapes of Outstanding Historic Interest in Wales (Cadw 1998) (Figure 3). The Milford Haven HLC area is *"a late 18th century grid-pattern planned town with docks dating to the late 19th century. Large 20th century housing estates and light industrial developments surround the town's older core"* (Dyfed Historic Landscape Characterisation). The following extract, taken from the detailed description of this HLC, provides a brief historic background relevant to the development site: *"It occupied the medieval Manor of Pill, which was created between 1100 and 1130. Documentary sources prior to this date clearly indicate an increase in economic activity in and around the Milford Haven waterway from the 16th century. Up to the late 18th-century Hubberston was a village where fishing was probably its major economic activity. During the 19th century and 20th century, the increase in population in conjunction with greater economic activity contributed to the spread of housing and other development across what had been fields and farms on the outskirts of the town. For instance early 19th century maps show a regular pattern of fields to the east of Hubberston Pill with the small settlement at Hubberston called the 'Town of Hakin'. Large-scale housing development now lies across these former fields."*
- 4.1.2 Although the proposed school development lies within this HLC, its impact on the overall designated area will be minimal, occupying only a small part of it. The development will mostly include the retention of open land with some landscaping, additional roads and the area of the proposed new school building. It will lie within an already developed area mostly of relatively modern housing and overall the impact to the HLC is seen as minimal.
- 4.1.3 A single Conservation Areas lie within a 3km radius of the proposed development site, that of Milford Haven, covering most of the dock area between 800m and 1.2km to the east of the proposed school site (Figure 3). There is no inter-visibility between the site and the Milford Haven Conservation Area and so there is considered to be no impact upon the area and it is not considered further.
- 4.1.4 There are two environmental designated areas within 3km of the site, the nearest being 0.17km, from the southwestern corner of the site boundary to Gelliswick Bay to the southwest (Figure 3). This is the Milford Haven Waterway Site of Special Scientific Interest (SSSI 282). The second environmental designation is the Pembrokeshire Marine Special Area of Conservation (SAC), which is the third largest marine SAC in the UK, covering an area of 138,069 ha (Figure 3). The development will have no direct impact upon either of these areas, although they should be considered in any development proposals to ensure no indirect impacts occur.
- 4.1.5 One registered Park or Garden lies within a 3km radius of the proposed development site (Figure 3). This is the early nineteenth century gardens at Castle Hall, 2.5km east of the site (NGR SM 89068 06233), which incorporate some late eighteenth century features. The gardens include two substantial terraces associated with the house; fine entrances at the approach & elsewhere; a grotto; a lake; further terracing with a range of glass & and enigmatic garden structures formerly referred to as a 'pinery.' There is no line of sight from the Castle Hall to the development site because Milford Haven is in the way, so the setting of the gardens will not be affected.

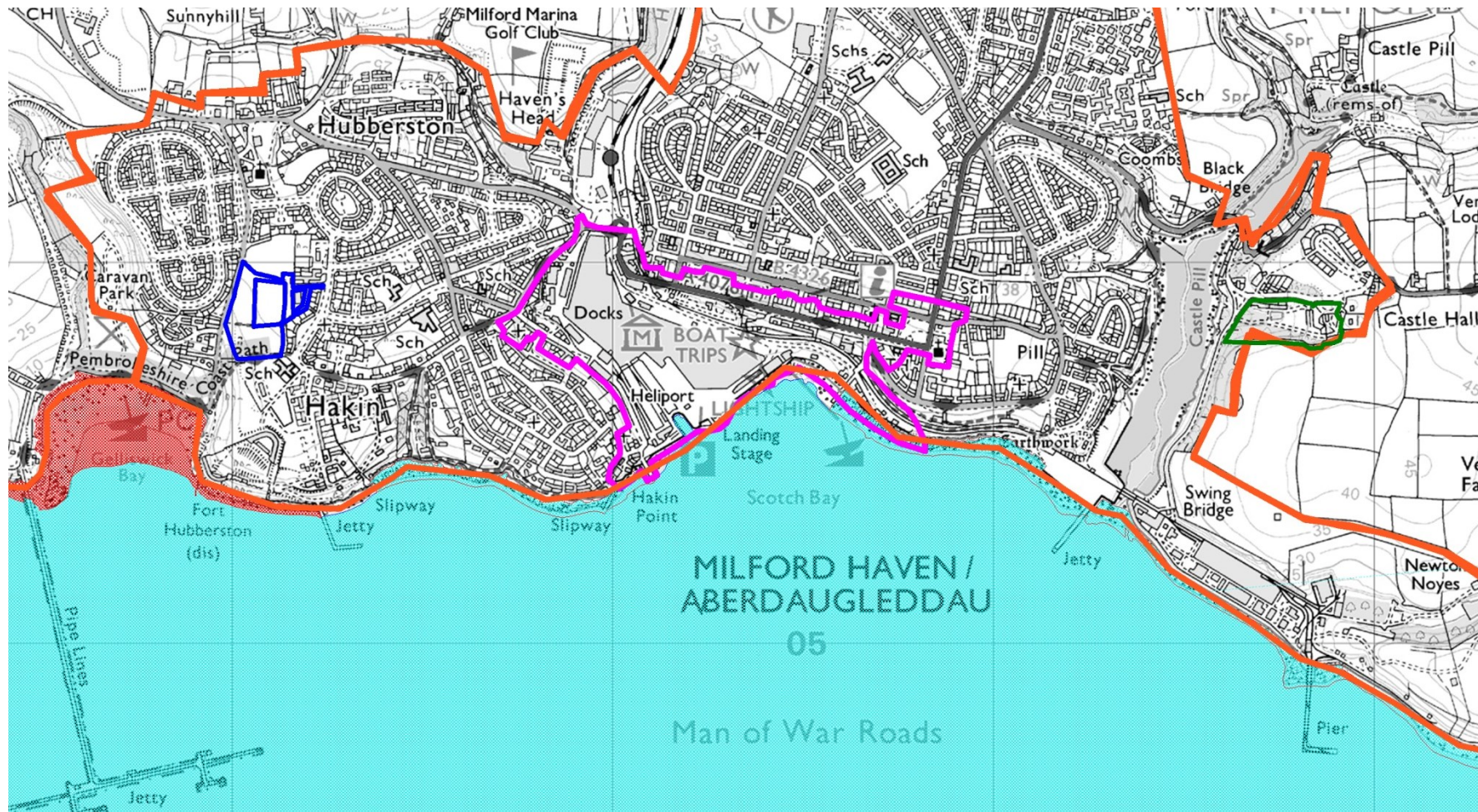


Figure 3: Map showing the location of the Milford Haven HLC (orange outline), the Castle Hill Registered Garden (green outline), Milford Haven Conservation Area (magenta outline), the Milford Haven Waterway SSSI (red shaded) and the Pembrokeshire Marine Special Area of Conservation (pale blue shaded). Proposed development site outlined in dark blue

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4.2 Scheduled Ancient Monuments

4.2.1 There are twelve Scheduled Ancient Monuments within a 3km radius of the proposed development area:

SAM Number	Site Name	Period	NGR	Distance and Direction from Site
PE070	Pill Priory	Medieval	SM9026207251	1.66km NE
PE135	Long Stone Burial Chamber	Prehistoric	SM892071	1.16km N
PE186	Priory Rath	Prehistoric	SM9052207092	1.71km NE
PE187	Thornton Rath	Prehistoric	SM9050007888	2.28km NE
PE264	West Popton Camp	Prehistoric	SM9070003800	2.47km SE
PE307	South Hook Camp	Prehistoric	SM8661706290	2.37km W
PE334	Stack Rock Fort	Post-Medieval	SM8643504950	2.66km WSW
PE337	South Hook Fort	Post-Medieval	SM8703005479	1.8km W
PE338	Fort Hubberston	Post-Medieval	SM890054	0.19km S
PE387	Hakin Observatory	Post-Medieval	SM8921105956	0.01km NE
PE446	Fort Popton (Curtain Walls and Gun Emplacements only)	Post-Medieval	SM8933103846	1.89km S
PE541	Castle Pill	Medieval	SM9186606423	2.63km E

Table 2: Scheduled Ancient Monuments within 3km of the proposed development (Figure 4)

4.2.2 There are five prehistoric Scheduled Ancient Monuments within 3km of the proposed new school. One is a burial chamber (PE135) and the other four are defended enclosures (PE186, PE187, PE264 and PE307). The remains of Long Stone burial chamber consist only of one upright pillar, standing 1.8m tall. The defended enclosures range from 0.03ha and 0.08ha in area, and all have a bank and ditch enclosing their internal space. They all lie 2km and 3km away from the proposed development site. None of these five prehistoric monuments will have their settings impinged upon significantly by the new school, due to the existing presence of the built up area around it.

4.2.3 Two sites of medieval date, Pill Priory (PE070) and Castle Pill (PE541), lie within 3km of the development site. The Priory was of the Order of Tiron and is thought to have been founded in the 12th century, and was certainly dissolved in 1536. The Castle has surviving medieval walling up to 1.8m thick and was possibly re-used as a Civil War strongpoint. Neither of these monuments will have their settings impinged upon significantly by the new school, due to the existing presence of the built up area around it.

4.2.4 Of Post-Medieval date, are four forts (PE334, PE337, PE338 and PE446) that were developed during the period between 1852 and 1865 along with many others in the wider area in order to enhance the coastal defence of the Milford Haven. Only Fort Hubberston (PE338) lies close enough to the built up area of Hakin that its setting might be affected by the new development, which is discussed further in the site visit section below.

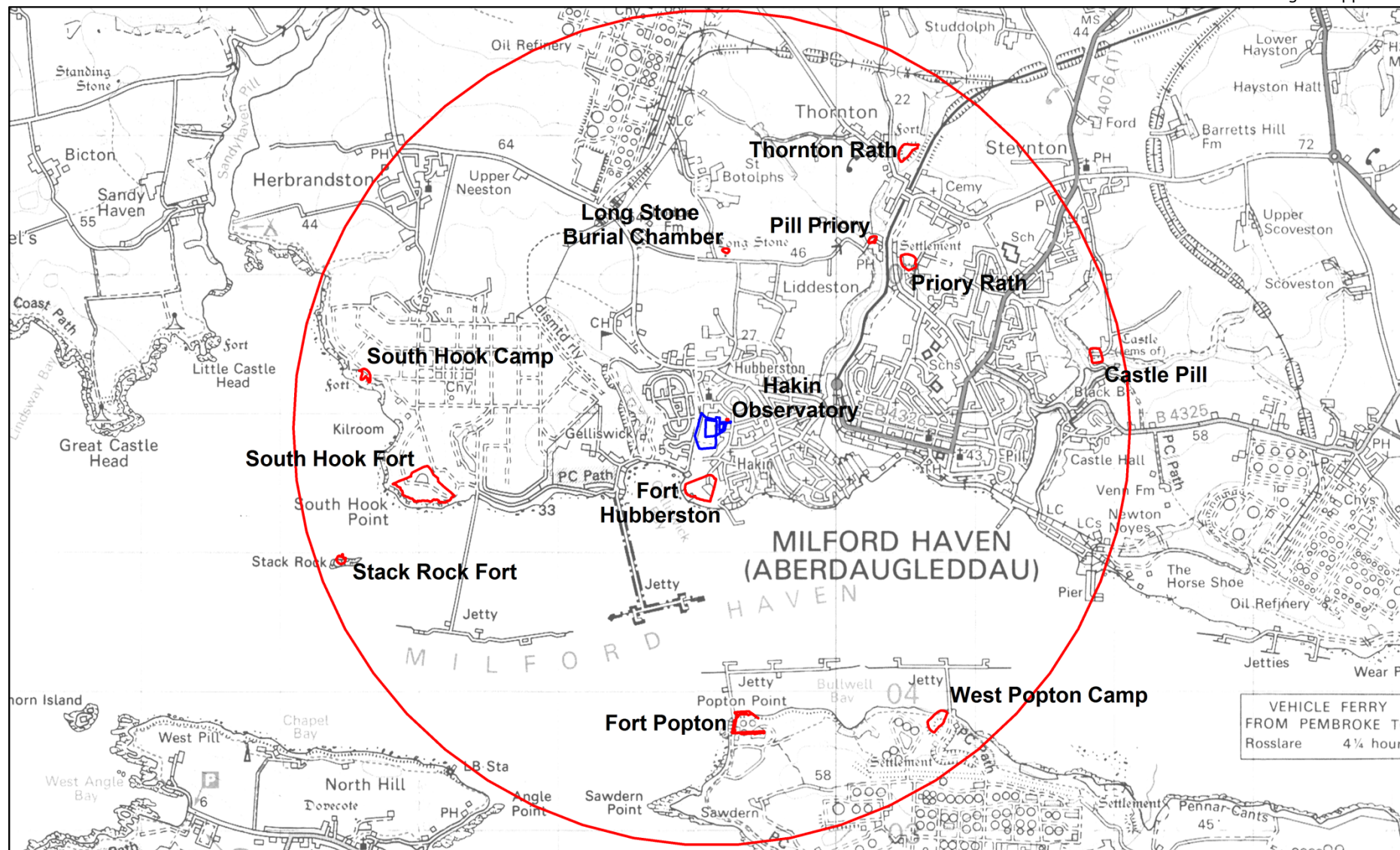


Figure 4: Map showing Scheduled Ancient Monuments (red) within 3km of the proposed development (outlined in blue)

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4.2.5 Hakin Observatory (PE387) lies at the northeast boundary of the proposed site, so the effect on its setting may be significant depending on actual lines of sight on the ground. It was built in 1809 and is a Grade II Listed Building. It is octagonal in plan, constructed of stone and brick and has vaulted top with slit openings for the telescope at 10m (30ft) high. The observatory used to be used as a navigation aid by vessels using the Haven. It now lies rather hidden amongst modern development. Effects on its setting should be considered within the development proposals.

4.3 Listed Buildings

Grade I and II*

4.3.1 There is one grade I listed building and there are ten grade II* listed buildings within 3km of the study area:

Listed Building Number	Grade	Site Name	NGR	Distance and Direction from Site
12905	II*	Church of St. Katharine, Sandhurst road	SM9086305754	1.64km E
12920	II*	Fort Hubberston	SM8907505508	0.26km S
12921	II*	Fort Hubberston, Picton road, Hakin	SM8893505448	0.33km S
12922	II*	The Observatory, Picton road, Hakin	SM8921105956	0.01km NE
12925	I	Church of St. David	SM8906806233	0.25km N
12927	II*	Pill Priory ruins, lower priory	SM9027707263	1.69km NE
12928	II*	The steps (including property formerly known as brook villa) lower priory	SM9027807244	1.69km NE
12929	II*	The priory inn (including 3 properties formerly known as priory farmhouse, the steps above priory far	SM9026407226	1.69km NE
17168	II*	Fort Popton	SM8944603752	2.04km S
82592	II*	Stack rock fort	SM8643504946	2.71km WSW
82593	II*	The defensible barracks at South Hook Fort	SM8704405557	1.98km W

Table 3: Grade I and II* listed buildings within 3km of the proposed development site (Figure 5)

4.3.2 The grade I listed church of St. David (12925) is situated in the churchyard behind twentieth century shops on Gellyswick Road, only 250m north of the proposed development site.

- 4.3.3 Many of the previously discussed Scheduled Ancient Monuments, or parts of them, are also grade II* listed buildings: Hakin Observatory (12922); Pill Priory (12927); Fort Popton (17168); Stack Rock Fort (82592); South Hook Fort (82593). At Hubberston Fort, the Gun Battery (12921) and the Barracks (12920) are listed.
- 4.3.4 Three other grade II* listed buildings are within the 3km study area. Two of these are associated with Pill Priory: The Steps (including property formerly known as Brook Villa), Lower Priory (12928), and The Priory Inn (including 3 properties) (12929). The third is the nineteenth century Church of St. Katharine, Sandhurst Road (12905). These structures are all over 1.5km away from the proposed development and their settings will not be significantly affected due to the existing presence of the built up area between masking any views to and from them.

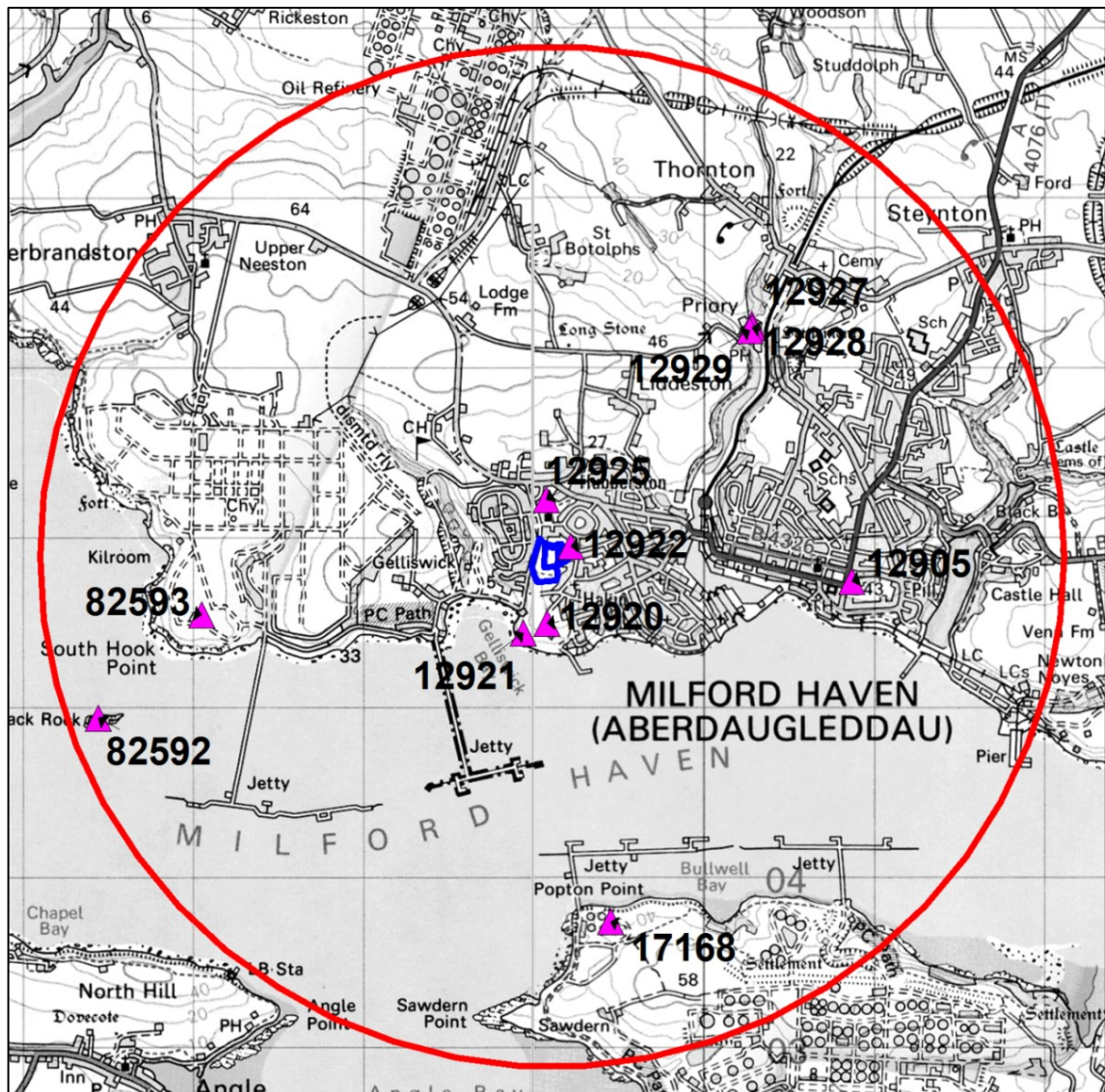


Figure 5: Grade I and II* listed buildings (pink triangles) within the 3km of the proposed development site (outlined in blue)

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Grade II

4.3.5 There are eighteen Grade II listed buildings within 1km of the proposed development site:

Listed Building Number	Name	NGR
12825	The Sewin Restaurant (formerly listed as Milford Docks Company Offices) The Docks	SM9001605988
12826	Waterfront Bistro (formerly listed as Milford Docks Company Offices) The Docks	SM9002505968
12827	The Customs House (formerly Listed As Vaughan's Store) The Docks	SM9006305935
12834	One of 28 Bollards Flanking Entrance Lock (formerly Listed as 30 Bollards) The Docks	SM9008005744
12835	One of 28 Bollards Flanking Entrance Lock (formerly Listed as 30 Bollards) The Docks	SM9009005728
12848	One of 28 Bollards Flanking Entrance Lock (formerly Listed as 30 Bollards) The Docks	SM9005805711
12849	One of 28 Bollards Flanking Entrance Lock (formerly Listed as 30 Bollards) The Docks	SM9006605695
12850	One of 28 Bollards Flanking Entrance Lock (formerly Listed as 30 Bollards) The Docks	SM9007505682
12862	One of 5 Capstans Adjoining Gates to Entrance Lock (formerly listed in two groups) The Docks	SM9008305745
12863	One of 5 Capstans Adjoining Gates to Entrance Lock (formerly listed in Two groups) The Docks	SM9007905735
12864	One of 5 Capstans Adjoining Gates to Entrance Lock (formerly listed in two groups) The Docks	SM9005305714
12867	One of 5 Bollards along SW side of Graving Dock at Milford Docks, The Docks	SM9006405630
12906	The George IV Memorial, Victoria Road	SM9004506089
12907	No.1 Victoria Road (formerly listed as 'Warehouse recently occupied by Gabriel Wade' (Wales) Ltd.)	SM9003806000
12918	Warehouse occupied By Milford Docks Co. & C. Maine Shipping (formerly listed as Old Sail Loft) St. Anne	SM8989906043
12919	Telegraph Cottage, Gorsewood Road, Hakin	SM8916705666
12924	No. 21 Westaway Drive (Westaway) Hakin	SM8931605555
12926	Limekiln, Haven's Head, Hubberston	SM8962406443

Table 4: Grade II listed buildings within 1km of the proposed development site (Figure 6)

4.3.6 Six of the grade II listed buildings are bollards (12834-5; 12848-50; 12867), and three are capstans (12862-5). These lie in the Milford Haven Docks (Conservation Area), as do six further grade II listed buildings (12825-7; 12906-7; 12918). None of these structures have inter-visibility with the proposed development area.

- 4.3.7 The Limekiln at Haven's Head (12926) is also screened from the proposed site by existing buildings.
- 4.3.8 Telegraph Cottage (12919) and No. 21 Westaway Drive (12924) are fairly close to the southeast of the proposed development, but their settings will not be further affected by development

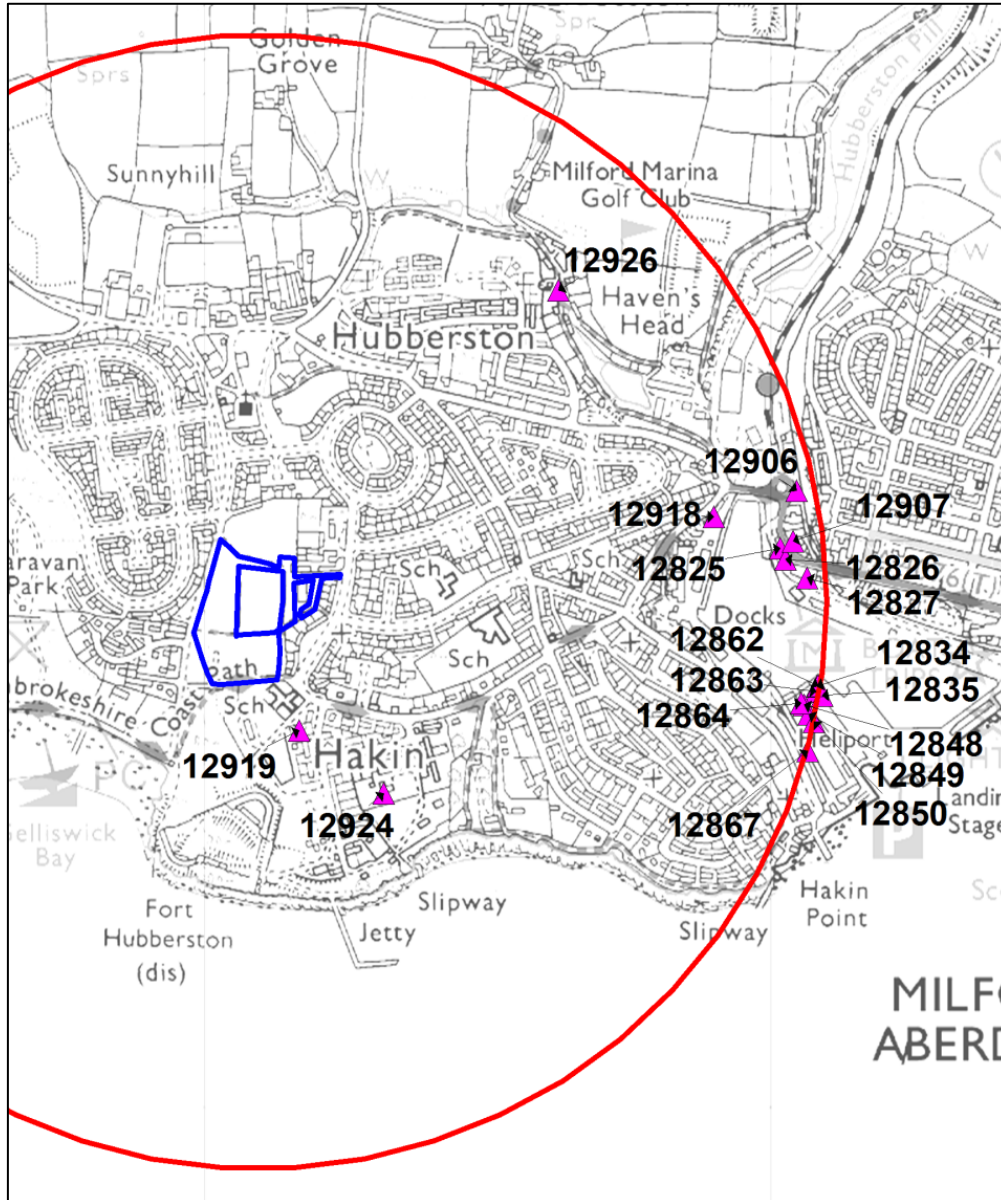


Figure 6: Grade II Listed Buildings (pink triangles) within the 3km of the proposed development site (outlined in blue)

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4.4 Known Archaeological Remains

4.4.1 Table 5 lists the designated and non-designated archaeological and historic assets that are recorded in the Regional HER and the NMR within a 1km radius of the proposed new school site. The Regional HER records eighty five sites of archaeological interest, eight of which are also recorded in the NMR. A further eleven other sites are recorded only in the NMR. The distribution of these sites is recorded in Figures 7 and 8.

PRN	NPRN	Site Name	Period	NGR
3034		Hubberston Parish Church; St David's Church	Post-Medieval, Medieval	SM 8906 0623
3036		Sunnyhill Findspot	Bronze Age	SM 888 065
3037		Haven's Head Findspot	Roman	SM 89 06
7623	92688	Fort Hubberston	Post-Medieval	SM 890 054
8836		Hakin Observatory	Post-Medieval	SM 892 059
10176		St David Dedication	Unknown	SM 891 062
10503	21954	Gelliswick Mansion	Post-Medieval, Medieval	SM 8822 0581
11805		Golden Grove Farm Findspot	Roman	SM 89 06
12185		Milford Findspot	Bronze Age	SM 90 06
12464		St Thomas' Chapel	Medieval	SM 889 057
14485		Manchester and Milford Railway	Post-Medieval	SM 90 06
15819	33236	Old Windmill; Gelliswick Windmill	Post-Medieval	SM 8828 0551
15821		Dwelling	Post-Medieval	SM 8906 0630
15823		Rectory	Post-Medieval	SM 8914 0628
15827		Dwelling	Post-Medieval	SM 8936 0628
15831		Victoria Bridge	Modern	SM 8997 0608
15841		Lodge	Post-Medieval	SM 8938 0566
15868		Lodge	Post-Medieval	SM 8948 0560
15870		St Marys Church	Post-Medieval	SM 8989 0557
16185	11136	Church	Post-Medieval	SM 8975 0582
17899		Victoria Bridge	Post-Medieval	SM 9003 0607
33519		Victoria Bridge	Post-Medieval	SM 9001 0607
34484		Gelliswick Bay Limekiln	Post-Medieval	SM 8850 0565
34486		Milford Docks- Terrace	Post-Medieval	SM 9002 0563
34487		Milford Docks – Dock	Post-Medieval	SM 9005 0570
34488		Milford Docks – Blacksmith's Workshop	Post-Medieval	SM 9003 0565
34490		Milford Docks – Ropewalk	Post-Medieval	SM 8956 0596
34491		Milford Docks – Foundry	Post-Medieval	SM 8982 0591
34492		Milford Docks – Gas Works	Post-Medieval	SM 8993 0611
34493		Milford Docks – iron works	Post-Medieval	SM 8982 0595
34494		Milford – Quay	Post-Medieval	SM 9000 0608
34495		Havens Head lime kiln	Post-Medieval	SM 8961 0647
34496		Hubberston Pill Oyster bed	Post-Medieval	SM 8997 0624
34497		Milford Docks – Quay	Post-Medieval	SM 9004 0600
34498		Milford Docks – Slipway	Post-Medieval	SM 9006 0600
34505		Milford Docks – Fish market	Post-Medieval	SM 9007 0587
34511		Milford Docks – Dock	Post-Medieval	SM 9003 0570
34512		Cliff Houses – Dwellings	Post-Medieval	SM 8844 0544
34561		Milford Haven – Building	Post-Medieval	SM 9002 0596
34633		Hakinville Battery	Post-Medieval	SM 8988 0553
34649		Milford – Quarry	Post-Medieval	SM 9005 0615
34650		Milford – Toll house	Post-Medieval	SM 9002 0609
34651		Milford – Custom house	Post-Medieval	SM 9002 0598
34794		Gelliswick Bay – slipway	Modern	SM 8881 0565
34795		Gelliswick Bay – jetty	Modern	SM 8888 0545
34796		Gelliswick Bay – slipway	Post-Medieval	SM 8890 0541
34799		Hakin – sea defence	Post-Medieval	SM 8942 0546
34800		Hakin – slipway	Modern	SM 8936 0542
34801		Hakin – jetty	Modern	SM 8920 0531
34808		Milford Docks	Post-Medieval	SM 9005 0572
34810		Milford Docks	Post-Medieval	SM 8990 0596
34812		Milford Station	Post-Medieval	SM 9001 0625

34814		Milford Haven – warehouse	Post-Medieval	SM 8989 0604
34815		Milford Haven – gas holder	Post-Medieval	SM 8985 0598
34816		Milford Haven – building	Post-Medieval	SM 9001 0614
34818		Milford Haven – warehouse	Post-Medieval	SM 9006 0593
35083		Fort Hubberston – minewatcher's post	Post-Medieval, Modern	SM 8910 0540
35089		Fort Hubberston – minewatcher's post	Modern	SM 8910 0540
58983		The Sewin Restaurant (Formerly listed as Milford Docks Company Offices) The Docks	Post-Medieval	SM 90016 05988
58984		Waterfront Bistro (formerly listed as Milford Docks Company Offices) The Docks	Post-Medieval	SM 90025 05968
58985	34306	The Customs House (formerly listed as Vaughan's Store) The Docks	Post-Medieval	SM 90063 05935
59006		One of 28 Bollards Flanking Entrance Lock (formerly listed as 30 bollards) The Docks	Post-Medieval	SM 90058 05711
59022		One of 5 Capstans Adjoining Gates to Entrance Lock (formerly listed in two groups) The Docks	Post-Medieval	SM 90053 05714
59061		The George IV Memorial plaque, Victoria Road	Post-Medieval	SM 90045 06089
59062	34364	No.1 Victoria Road (formerly listed as Warehouse Recently occupied by Gabriel Wade (Wales) Ltd.)	Post-Medieval	SM 90038 06000
59073		Warehouse occupied by Milford Docks Co. and C. Maine Shipping (formerly listed as Old Sail Loft) St. Anne	Post-Medieval	SM 89899 06043
59074		Telegraph Cottage, Gorsewood Road, Hakin	Post-Medieval	SM 89167 05666
59075		Fort Hubberston – barracks	Post-Medieval	SM 89075 05508
59076		Fort Hubberston, Picton Road, Hakin – gun battery	Post-Medieval	SM 88935 05448
59077	34315	The Observatory, Picton Road, Hakin	Post-Medieval	SM 89211 05956
59079		No.21 Westaway Drive (Westaway) Hakin, house	Post-Medieval	SM 89316 05555
59080	308949	Church of St. David	Post-Medieval	SM 89068 06233
59081		Limekiln, Haven's Head, Hubberston	Post-Medieval	SM 89624 06443
100133		Quarry	Post-Medieval	SM 8875 0597
100134		Target	Post-Medieval	SM 8866 0599
100135		Target	Post-Medieval	SM 8861 0606
100136		Target	Post-Medieval	SM 8857 0614
100137		Target	Post-Medieval	SM 8853 0622
100138		Cottage	Post-Medieval	SM 8856 0573
100139		Quarry	Post-Medieval	SM 8858 0600
102496		Haven's Head RAF Fuel Reserve Depot – pumping station	Modern	SM 8984 0631
102497		Haven's Head RAF Fuel Reserve Depot – fuel store	Modern	SM 8986 0650
103165		Havens Head – quarry	Post-Medieval	SM 8960 0644
103166		Target	Post-Medieval	SM 8845 0640
	32961	Victoria Bridge Monument, Milford Haven – commemorative monument	Post Medieval	SM 89957 06095
	273109	Fidget, wreck	Post Medieval	SM 89971 05910
	11130	Deep Sea Mission (Undenominational) Chapel, Victoria Road, Milford Haven	Post Medieval	SM 90063 05892
	270764	Gun Emplacement, Milford	Post Medieval	SM 8988 0545
	273393	Providence, wreck	Post Medieval	SM 89976 06199
	272793	Unnamed French Ship, wreck	Post Medieval	SM 89927 06012
	272418	Molly, wreck	Post Medieval	SM 88898 05409
	270763	Weapons Pit, Milford	Post Medieval	SM 8986 0544
	11137	Plymouth Brethren Meeting House (chapel)	Post Medieval	SM 90 06
	402790	Glebelands Housing Estate, Hubberston	Modern;20th Century	SM 89290 06152
	406638	Gelliswick Bay Wreck	Unknown	SM 8856 0539

Table 5: HER and NMR sites within 1km of the proposed new school (Figures 7 and 8)

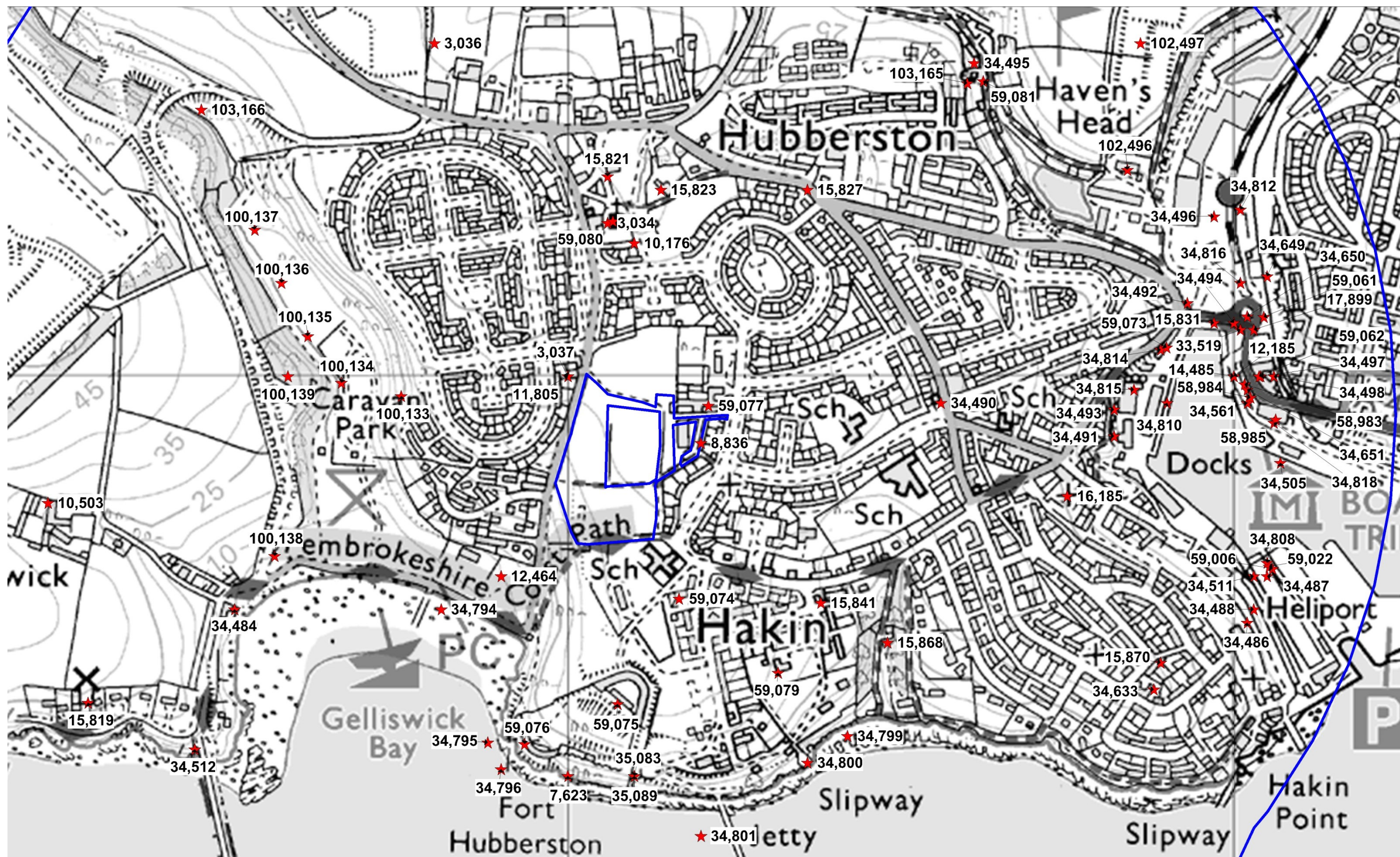


Figure 7: Map showing distribution of archaeological sites recorded on the Historic Environment Record (red stars) within 1km of the proposed new school.
The numbers for the sites around the Docks are shown in Figure 8

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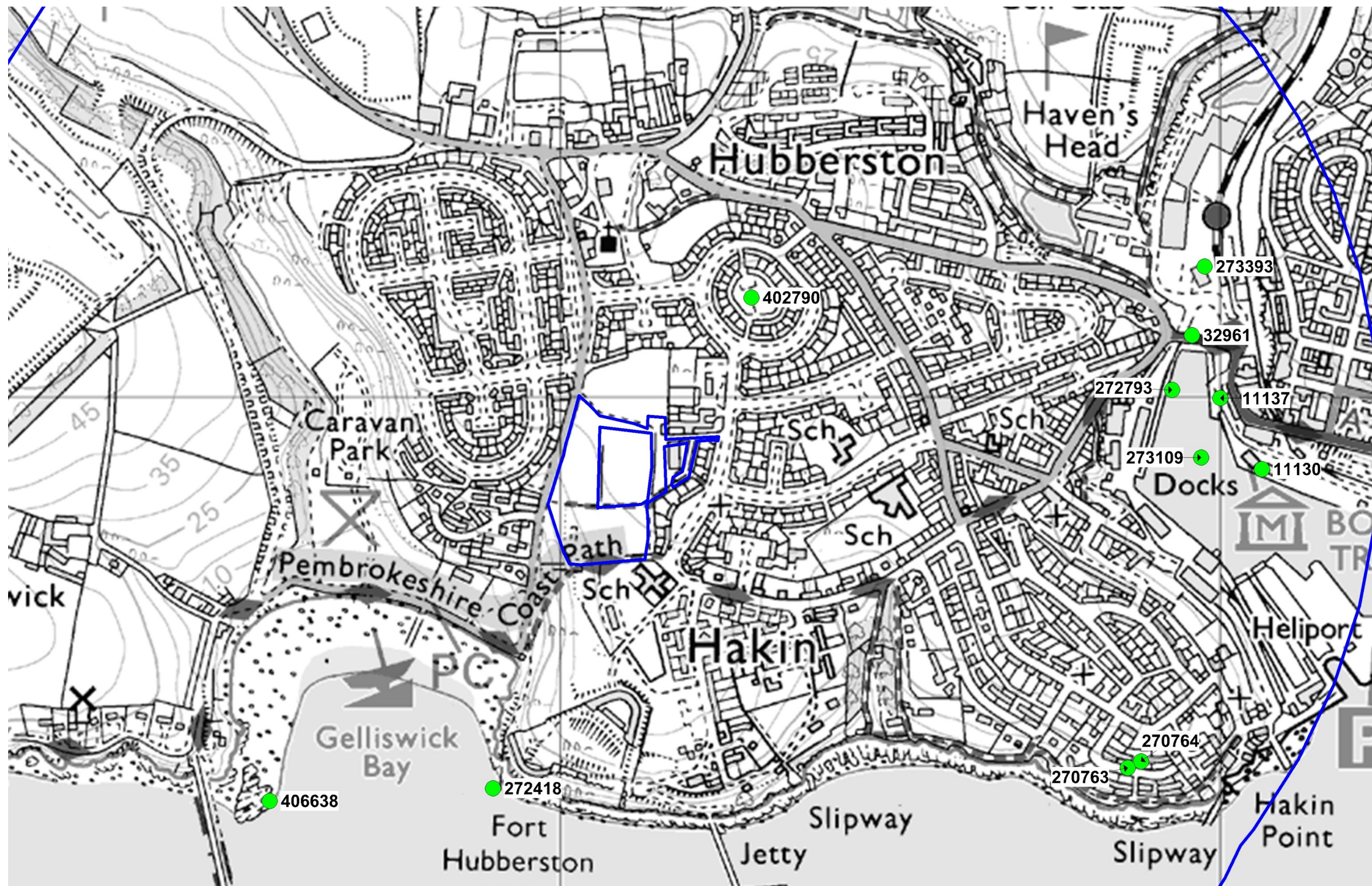


Figure 8: Map showing the distribution of archaeological sites recorded on the National Monuments Record (green circles) within 1km of the proposed new school

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- 4.4.2 Many of the sites recorded in the HER and NMR have already been discussed because they are Scheduled Ancient Monuments and/or listed buildings.
- 4.4.3 The majority of the remaining sites are of medieval to modern date, and none will be significantly impacted by the proposed development.
- 4.4.4 The only archaeological sites recorded that pre-date the medieval period are four findspots. Two of these are coins of Roman date (PRNs 3037 and 11805), but although both are mapped at the western edge of the proposed school, their NGRs are not accurate and in fact their descriptions place their exact location at over 1km away. The other two findspots are of Bronze Age date (PRNs 3036 and 12185). PRN 3036 is a bronze palstave (a type of chisel) that was found 'on marshy ground near Hubberston' and again has a vague grid reference. PRN 12185 is a bronze sword, with an inaccurate NGR about 1km east of the site.

4.5 Other archaeological finds

- 4.5.1 The Portable Antiquities Scheme has three records of Roman coins within 1km of the proposed development. These are chance finds and not associated with any historic archaeological sites yet recorded in the Regional HER or the NMR.
- 4.5.2 Two of these coins were found 0.84km east-northeast of the proposed site at Haven's Head (PAS Nos. 364965 and 364966). The other (PAS No. 364593) was discovered 0.71km north of the proposed development at Sunnyhill, quite near to Golden Grove Farm, where the Bronze Age palstave already mentioned was found (PRN 3036).

4.6 Historic Mapping

- 4.6.1 The Hubberston Parish Tithe Map of 1841 (Figure 9) shows the Scheduled Ancient Monument Hakin Observatory and fields numbered 238, 239, 240 and 242 at the site of the proposed development. The Tithe Apportionment shows that these fields were owned by Honorable Robert Fulke Greville and occupied by Thomas Lewis.
- 4.6.2 The apportionment gives names for these fields but no description of use: 238 is named 'Old Windmill,' 239 is 'Half Plough Land Hill,' 240 is 'Wales' and 242 is 'Observatory Field.' The significance of the name 'Wales' as a field-name is unknown. The name 'Old Windmill' clearly indicates the possibility of archaeological remains of a former windmill structure. 'Half plough Land Hill' could indicate that only half the field was ever ploughed, which could indicate that the other half was too stony for ploughing, either due to natural geological causes or potentially due to the presence of archaeological remains.
- 4.6.3 The 1st and 2nd edition Ordnance Survey maps of 1875 and 1908 as well as the 6-inch Ordnance Survey maps of 1868, 1909 and 1939 were examined.
- 4.6.4 Figure 10 shows the 1868 map and the proposed location of the school. Within the site boundary, it shows two pathways and one road (St. Anne's Road) that were not depicted on the 1841 Tithe Map. No change is then apparent within the area (apart from an expansion of the observatory to its northeast) until the 1937 map, which shows a small building at the southeast corner of the proposed site (Figure 11). This building is not shown on present-day mapping, possibly having been demolished when

the adjacent housing estate was created. This map also shows the development of housing in the bottom right-hand corner, which indicates the western most expansion of Milford Haven at that time. Subsequent maps show the gradual expansion of housing to its present-day extent.

4.7 Other Sources

- 4.7.1 Meridian Aerial Photographs (taken in the 1950s) and LiDAR imagery were examined and showed nothing of archaeological significance.



Figure 9: Extract from the 1841 Hubberston Parish Tithe Map with the approximate outline of the proposed development in blue

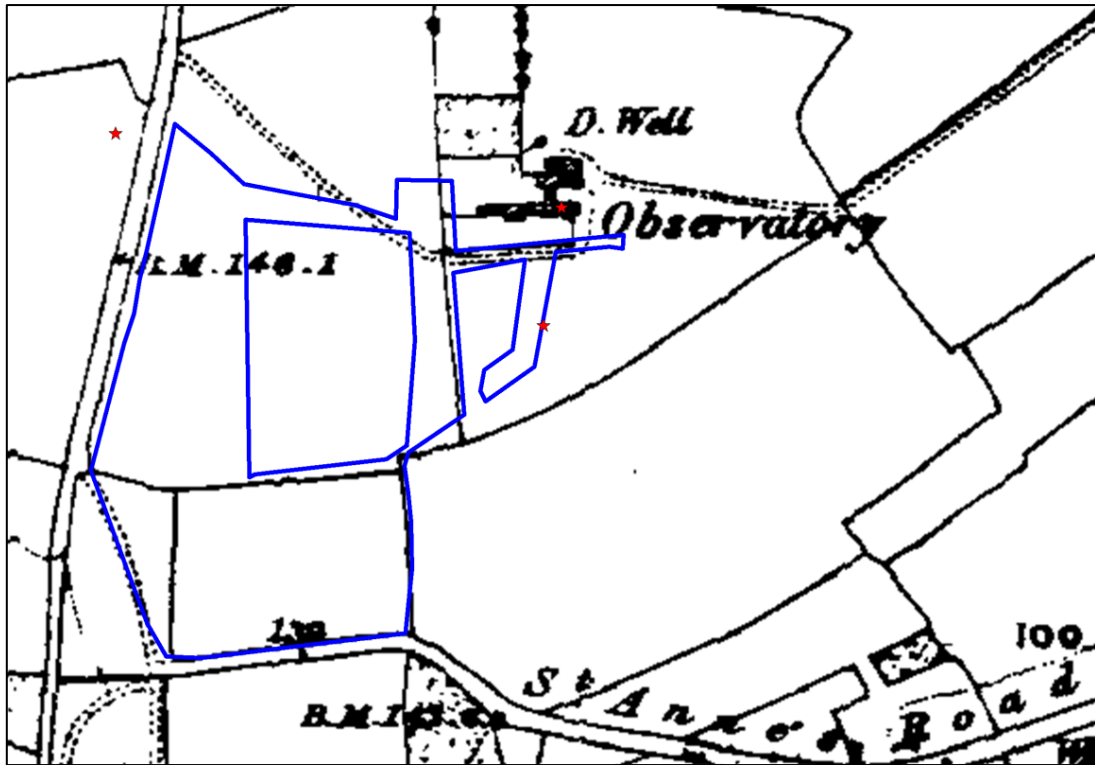


Figure 10: Extract of 1868 1:10560 OS map
with location of proposed school (outlined in blue)

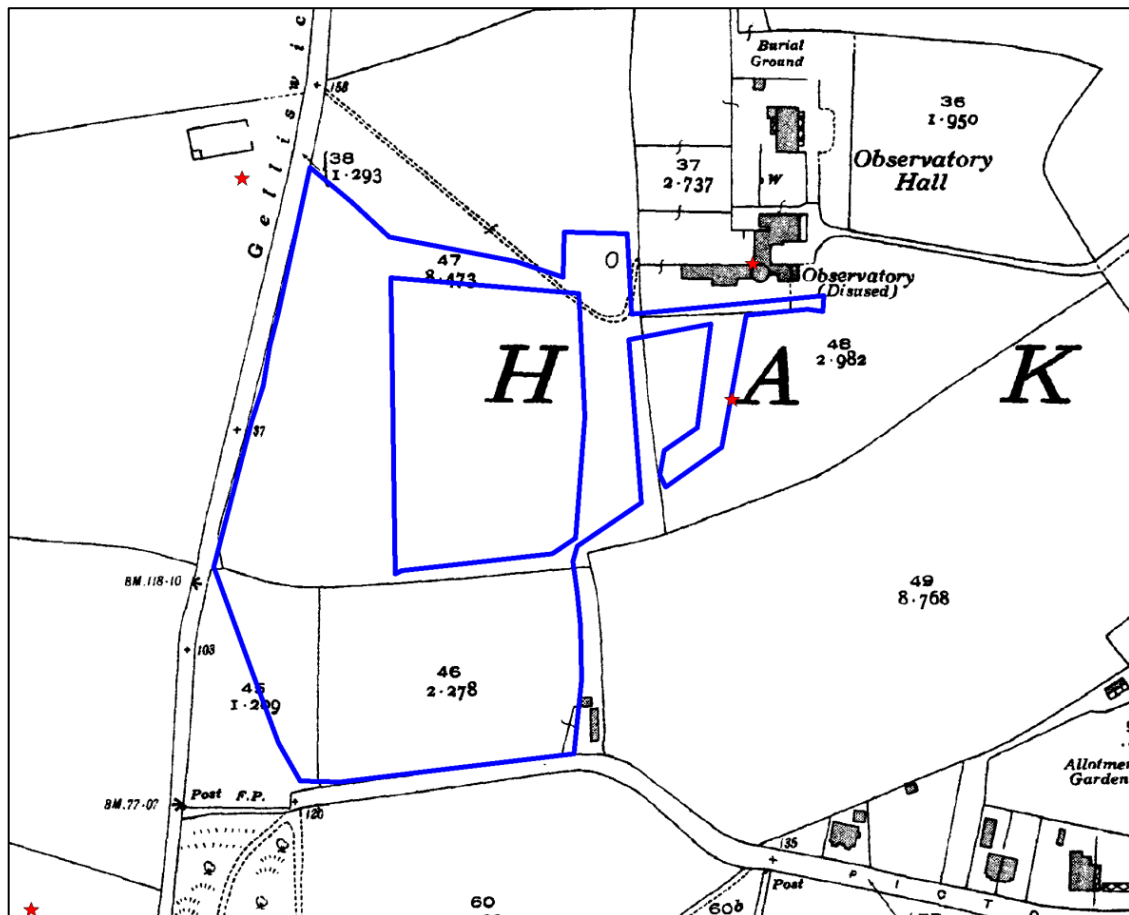


Figure 11: Extract of 1937 1:2500 OS map
with location of proposed school (outlined in blue)

4.8 Site Walkover survey

- 4.8.1 The site walkover survey was undertaken on the 8th October 2015. The fields at the proposed school location showed no evidence for archaeological remains above or below ground (Photos 1-3). Their current use is clearly as playing fields, and the land gently slopes to the southwest towards Gellyswick Bay. The smooth nature of the ground strongly suggests that it has been previously levelled, perhaps when the playing fields were built or when the adjacent housing was constructed.
- 4.8.2 The Scheduled Ancient Monument and Grade II* Listed Hakin Observatory is shown in Photo 4. It is partially surrounded by vegetation and overlooks a road and modern buildings and structures.
- 4.8.3 The Grade I Listed Church of St David (Photo 5) is only partially visible from the proposed site, as it lies over the crest of a ridge to the north. The view is also partially obscured by a large tree.
- 4.8.4 The Scheduled Ancient Monument and Grade II* Listed Fort Hubberston (Photo 6) is located 250m to the south of the site. It is only partially visible from the extreme southern end of the proposed development area due to intervening topography and vegetation.



Photo 1: The proposed site, from its eastern edge, looking southwest towards Gellyswick Bay



Photo 2: The proposed site, from its southern edge, looking north-northwest towards the built-up area to the west



Photo 3: The proposed site, from its north-western edge, looking southeast towards the built-up area to the east



Photo 4: The Scheduled Ancient Monument Hakin Observatory, which is situated adjacent to the northeast boundary of the proposed site



Photo 5: The Grade I listed Church of St. David
(NB. The photo was not taken within the site boundary)



Photo 6: Scheduled Ancient Monument Fort Hubberston, seen from its southwest

5. IMPACT OF PROPOSED NEW SCHOOL ON THE HISTORIC ENVIRONMENT

5.1 Physical Impacts

- 5.1.1 There will be no physical impacts on any known archaeology within the development site.

5.2 Buried Archaeological Potential

- 5.2.1 The archaeological potential for hitherto unknown archaeological sites to be present within the proposed development area is considered to be low.
- 5.2.2 Indications of potential buried archaeology are: 1) a field named 'Old Windmill' on the 1841 tithe map; 2) the depiction of a small building on maps from 1937 onwards at the southeast corner of the proposed development; 3) Roman coins have been discovered nearby, approximately between 0.7km and 1.5km away.
- 5.2.3 As noted during the site visit, the proposed area for the new school does appear to have been subject to previous levelling, looking very similar to the adjacent rugby pitches. It is possible the area has thus been previously disturbed, although the extent of any such works is not known. Potentially this will have removed or damaged any archaeological remains that may have previously been present.

5.3 Palaeo-environmental Potential

- 5.3.1 The hill-slope location of the proposed development is unlikely to have any potential to reveal substantial deposits suitable for palaeo-environmental analysis.

5.4 Visual Impacts

- 5.4.1 The proposed site lies inside the Milford Haven Registered Historic Landscape. As this landscape is already mainly characterized by 18th -20th century housing development, with 20th century housing estates in particular around the development area, it is considered that there will be no significant visual or setting impact on the HLA.
- 5.4.2 The Milford Haven Conservation Area lies to the east of the proposed new school and there is no inter-visibility between them and so it is considered that there will be a negligible setting or visual impact upon it.
- 5.4.3 The settings of the environmental designations of the Milford Haven Waterway Site of Special Scientific Interest and the Pembrokeshire Marine Special Area of Conservation are not considered relevant, even though they are overlooked by the proposed development site.
- 5.4.4 The proposed development will not make a significant change to the current environment of the Scheduled Ancient Monument and grade II* listed building, Hakin Observatory. The observatory is already overlooked by modern development, and in fact the new layout planned may constitute an improvement to its present visual surroundings.
- 5.4.5 The Scheduled Ancient Monument of Fort Hubberston and the grade I listed Church of St David are close to, but only partially visible from the proposed site, the views being obstructed by intervening topography and vegetation. The impact of the development on their settings is therefore considered to be low.

5.5 Other Constraints

- 5.5.1 The site does not lie in an area of ancient woodland or on farmland within the Glastir scheme.

5.6 Summary of Impacts

- 5.6.1 It is concluded that there will be no physical impacts to any known archaeology within the development site. There is a low potential that post-medieval remains of a windmill or small dwelling could be found within the development area.
- 5.6.2 There is a low potential for Roman remains to be present within the site of the new school, as although there has been the discovery of a few Roman coins between 0.7km and 1.5km away from the site, there is no concentration or any associated artefacts found to suggest settlement or other activity.
- 5.6.3 Potentially the development area has been subject to previous landscaping and levelling, as indicated by the smooth surfaces of the fields.
- 5.6.4 It is concluded that the proposed development will have no significant visual impact on any designated or undesignated sites of archaeological or historical interest already recorded in the area. In the case of Hakin Observatory, the development may even be an improvement to its setting.
- 5.6.5 It is considered probable that a watching brief may be required during groundworks associated with the construction of the school and associated infrastructure. As although the archaeological potential of the area is considered to be low (see above) this is based on the known archaeology of the area and it should be noted that the site lies within an area which has only been subject to very few and limited previous intrusive archaeological investigations.
- 5.6.6 The decision for the scope of any further programme of archaeological works lies with the Archaeological Advisor to the local Planning Authority (Planning Services, Dyfed Archaeological Trust).

6. SOURCES

Published

Cadw 1998. Register of Landscapes of Outstanding Historic Interest in Wales.

Database

Dyfed Archaeological Trust Historic Environment Record, housed with Dyfed Archaeological Trust in Shire Hall, Llandeilo, Carmarthenshire, SA19 6AF

Websites

British Geological Survey mapping portal. Available at:
<http://mapapps.bgs.ac.uk/geologyofbritain/home.html> [Accessed 12/Oct/2015]

Dyfed Historic Landscape Characterisation. Available at:
<http://www.dyfedarchaeology.org.uk/> [Accessed 12/Oct/2015]

Cartographic

Hubberston Parish Tithe Map 1841 and Apportionment 1841
Ordnance Survey 1865 *1:10560 Pembrokeshire*
Ordnance Survey 1937 *1:2500 Pembrokeshire*

**APPENDIX 1:
PROPOSED NEW SCHOOL AT LAND OF GELLYSWICK ROAD, HAKIN,
MILFORD HAVEN, PEMBROKESHIRE:
ARCHAEOLOGICAL APPRAISAL:
WRITTEN SCHEME OF INVESTIGATION**

1 INTRODUCTION

- 1.1 This written scheme of investigation presents a proposed methodology for an archaeological appraisal for the proposed development of a new school on land off Gellyswick Rd, Hakin, Milford Haven, Pembrokeshire, roughly centred on NGR SM 89112 05878. The appraisal has been requested by Pembrokeshire County Council to support the planning application for the new school being submitted to Pembrokeshire County Council.
- 1.2 A generic brief for the required archaeological appraisal has been prepared by the archaeological advisors to the local planning authority, Planning Services of Dyfed Archaeological Trust. This document outlines the proposed methodology that will be used to undertake the appraisal and provide the information required in support of the planning application for the development.
- 1.3 The appraisal will be a primarily desk-based study of the site area, identifying any known archaeological or historical sites within the site and its environs, identifying potential setting impacts on scheduled ancient monuments or listed buildings in the vicinity, identifying any historic landscape areas that may be affected by the proposals and assessing the potential for hitherto unknown archaeological remains to be present within the proposed development area.
- 1.4 An indication of what further archaeological works might be required, if any, will also be prepared.
- 1.5 The specification is in accordance with the *Standard and Guidance for Archaeological Desk-Based Assessments* (Institute for Archaeologists (IfA), 1994, revised 2001 & 2008).
- 1.6 The Trust always operates to best professional practice. DAT Archaeological Services has its own Health and Safety Policy, and all works are covered by appropriate Employer's Liability and Public Liability Insurances. Copies of all are available on request.
- 1.7 ***Dyfed Archaeological Trust is an IfA Registered Archaeological Organisation.***
- 1.8 ***All permanent staff members of DAT Archaeological Services are CSCS² registered.***

² *Construction Skills Certification Scheme (Health and Safety Tested)*

2. AIM AND OBJECTIVES OF THE PROJECT

2.1 This document provides a scheme of works for:

The preparation of an archaeological appraisal for the proposed development of a new school on land off Gellyswick Rd, Hakin, Milford Haven, Pembrokeshire, roughly centred on NGR SM 89112 05878. The report will assess the potential impact the development may have on any underlying archaeological remains, if present within the area, and an assessment of the wider impact of it on the historic environment. The appraisal shall be presented within a report which will be submitted with the planning application for the new school.

2.2 Provision of a written scheme of investigation to outline the methodology by which DAT Archaeological Services will undertake the appraisal.

2.2 To identify any known archaeological remains and assess the potential of any hitherto unknown archaeological deposits within the location of the water treatment works and any associated infrastructure.

2.3 To identify any known historic environment features within the wider area that could be affected indirectly by the proposed works.

3. ARCHAEOLOGICAL APPRAISAL METHODOLOGY

3.1 The archaeological appraisal will involve the preparation of a stand-alone report. The report will be prepared using relevant information from a number of sources, and will comprise a number of elements, including:

- Dyfed Archaeological Trust Historic Environment Record data and other relevant information (including a review of online information held on the RCAHMS Coflein site) – **1km search area**;
- Identification of any Scheduled Ancient Monuments, Listed Buildings, Conservation Areas or Historic Landscape Areas within or in the vicinity of the site area from information held by Dyfed Archaeological Trust, CADW and CCW – **3km search area**;
- Readily available bibliographic information, cartographic material and photographs (including aerial photographs) held at the Trust;
- A review of historic maps;
- Relevant web-based information;
- Site visit and walkover survey;
- Assessment of the archaeological potential of the area; and
- Assessment of likely impacts on any identified remains (or potential remains) or setting issues and likely requirements, if any, for further stages of archaeological work.

3.2 The proposed site visit would be undertaken to provide an assessment of the presence of any visible archaeological remains within the development area and its visibility from nearby cultural heritage features. Photographs will be taken of the site area and its environs and these will be used within the report.

3.3 A 1km (undesigned and Grade II listed buildings) search area and 3km (designed sites, except Grade II listed buildings) search area will be used to determine the presence of historic environment features within the site location for and vicinity of the proposed wind s. This will identify HER

sites, SAMs, Listed Buildings and Historic Landscape Characterisation areas etc.

- 3.4 The following will be considered when preparing the appraisal, although in some cases no such features may be present and will thus not be considered further:
- a. Scheduled Ancient Monuments {SAMs} and their settings;
 - b. Non-scheduled ancient monuments and their settings;
 - c. Listed buildings and their settings;
 - d. Non statutory Buildings of Local Importance, where this information is readily available and relevant to the proposed development;
 - e. Registered Parks and Gardens and their essential settings;
 - f. Registered Historic Landscapes;
 - g. Non-registered historic landscapes;
 - h. Buried archaeological potential;
 - i. Palaeo-environmental potential;
 - j. Hedgerows and field patterns;
 - k. Ancient woodland;
 - l. Place-name evidence;
 - m. Newly identified sites of historic importance;
 - n. Cumulative impacts, e.g. wind turbines in close proximity;
 - o. Any Tir Gofal / Glastir interests or requirements (where relevant); and
 - p. LANDMAP and landscape characterisation information.
- 3.5 A report will be prepared on the results of the appraisal. This report will include information on known sites within and in the vicinity of the proposed development site. Maps of known archaeological and historical sites will be presented in the report. Photographs will be used where appropriate.
- 3.6 The report will be fully representative of the information gained from the above methodology, even if there should be negative evidence. The report will include the following:
- a) A concise non-technical summary of the appraisal results.
 - b) The report will contain at least one plan showing the site's location in respect to the local topography.
 - c) The report should list all the sources consulted.
 - d) Where necessary, the report will also contain suitably selected plans and maps (including historic maps) of significant archaeological features.
 - e) Written descriptions of all archaeological features observed during the site visit.
 - f) Statement of the local and regional context of the historic assets identified. Consideration, where appropriate, of the national Research Agenda.
 - g) An assessment of the relative value or significance of each recognised historic asset.

- h) An impact assessment of the proposed development on the potential archaeological resource.
- 3.7 Once completed, a copy of the report will be submitted to the LPA for the consideration of their archaeological advisers. A further copy of the report should be provided to the Dyfed Archaeological Trust for deposition within the Regional Historic Environment Record (HER).
- 3.8 Where appropriate, a summary report on any new significant archaeological discovery will be submitted for publication to a national journal (e.g. Archaeology in Wales) no later than one year after the completion of the work.
- 3.9 Although there may be a period during which client confidentiality should be maintained, the report and the archive should normally be deposited in the appropriate repository not later than six months after completion of the work.

4 STAFF

- 4.1 The project will be managed by J Meek MIFA, Head of DAT Archaeological Services.
- 4.2 The report and site walkover survey will be undertaken by an experienced member of DAT Archaeological Services staff.

5. HEALTH AND SAFETY

- 5.1 All permanent members of DAT Archaeological Services staff are CSCS³ registered.
- 5.2 DAT Archaeological Services will carry out a health and safety risk assessment prior to the site walkover survey to ensure that all potential risks are minimised.
- 5.3 All relevant health and safety regulations must be followed where advised by the client.
- 5.4 As the site visit will likely be undertaken by a single archaeologist, it may be necessary to implement lone working procedures and contacts.

³ *Construction Skills Certification Scheme (Health and Safety Tested)*

LAND OF GELLYSWICK ROAD, HAKIN, MILFORD HAVEN, PEMBROKESHIRE:

ARCHAEOLOGICAL APPRAISAL

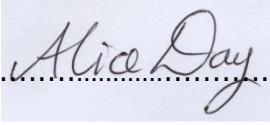
RHIF YR ADRODDIAD / REPORT NO. 2015/54
RHIF Y DIGWYDDIAD / EVENT NO. 108642

Hydref 2015
October 2015

Paratowyd yr adroddiad hwn gan / This report has been prepared by

Alice Day

Swydd / Position: **Assistant Archaeologist**

Llofnod / Signature  Dyddiad / Date 14/Oct/2015

Mae'r adroddiad hwn wedi ei gael yn gywir a derbyn sêl bendith
This report has been checked and approved by

James Meek

ar ran Ymddiriedolaeth Archaeolegol Dyfed Cyf.
on behalf of Dyfed Archaeological Trust Ltd.

Swydd / Position: **Head of DAT Archaeological Services**

Llofnod / Signature  Dyddiad / Date 14/Oct/2015

Yn unol â'n nôd i roddi gwasanaeth o ansawdd uchel, croesawn unrhyw sylwadau
sydd gennych ar gynnwys neu strwythur yr adroddiad hwn

As part of our desire to provide a quality service we would welcome any
comments you may have on the content or presentation of this report

