# Oxford Dendrochronology Laboratory

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10 Windmill Meadows Aythorpe Roding Dunmow Essex CM6 1PX

25th January 2017

Dear Sirs,

#### Roof at 45 Red Lion Street, Holborn (WC1R 4PF)

I looked at the small roof space above No 45 Red Lion Street earlier today. A building is known to have been on this spot since at least 1799 (see Richard Horwood's survey 1792-99, the relevant part of which is shown below).



Extract from Horwood's 1792-99 Survey of London, with 45-46 Red Lion St circled.

It is fairly clear that many of the original roof timbers have been replaced with smaller, squarer scantling softwood members, many of which bear mechanical sawing marks. There are some timbers remaining which probably do represent original softwood Georgian elements of the roof. For example - at least one collar – clearly not trusted to perform its original function, as it has a much more modern slender machine-sawn collar immediately adjacent to it.



Modern machine-sawn collar with remnants of older timber behind

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Many of the common rafters have clearly been replaced over time, although a few, possibly original softwood common rafters with waney edge, and one with what are commonly referred to as Baltic timbers marks can be seen:



Variable-sized rafters of different ages – one can clearly see the newest machine-sawn rafter in midshot (more orange) – whilst the others in this shot are unlikely to be original, with the possible exception of the one on the extreme right of shot (small part only showing).



'Baltic' mark on common rafter on the north side of the roof, indicating that this probably is an original timber.

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The nature of the timbers in this roof is such that they are unlikely to have sufficient numbers of rings for dating by dendrochronology, which is itself often difficult with these imported softwood timbers as it depends on having comparable material from the unknown area of import. Such dating of Georgian roofs has been possible elsewhere (unpublished ODL report on dating a roof in Hertford St, Mayfair, 2015) – but in this case there are relatively few likely original timbers, and they do not appear to have sufficient numbers of rings for dating.

My conclusion is that this roof has been altered several times during its long history, and whilst at least some likely original timbers are left, it lacks the coherence of an historic roof.

Dr Martin Bridge FSA

Oxford Dendrochronology Laboratory and UCL Institute of Archaeology

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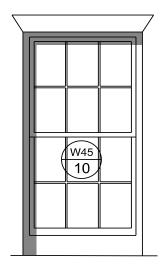
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Window	House	Floor	Existing	Proposed	Finish	Glazing bars	Trickle vents	Ironmongey	Drawing ref
W45/10	45	First	UPVC sash	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_61
				range box-sash window with		tongue, refer to		pulley, lifts and	
				14mm heritage dgu		drawings		hook catch	
W45/11 W45/12	45	First	UPVC sash	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_61
				range box-sash window with		tongue, refer to		pulley, lifts and	
	45	First	UPVC sash	14mm heritage dgu Mumford and Wood Classic	Cinnalbisa	drawings	NO	hook catch Brass sash	030 P 61
W45/12 W45/13	45	FIFSt	UPVC Sasn	range box-sash window with	Signal white	22mm Lambs tongue, refer to	NO	pulley, lifts and	030_P_61
				14mm heritage dgu		drawings		hook catch	
	//5	First	Solid timber door (rotten)	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_61
W43/13	43	11130	Solid timber door (rotteri)	range box-sash window with	Signal Willic	tongue, refer to	140	pulley, lifts and	050_1_01
				14mm heritage dgu		drawings		hook catch	
				14mm nemage aga		urawings		HOOK CATCH	
W45/20	45	Second	UPVC sash	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_62
-,				range box-sash window with		tongue, refer to		pulley, lifts and	
				14mm heritage dgu		drawings		hook catch	
W45/21	45	Second	UPVC sash	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_62
				range box-sash window with	-	tongue, refer to		pulley, lifts and	
				14mm heritage dgu		drawings		hook catch	
W45/22	45	Second	UPVC sash	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_62
				range box-sash window with		tongue, refer to		pulley, lifts and	
				14mm heritage dgu		drawings		hook catch	
W45/23	45	Second	Timber sash, original	Repair and repaint only	Signal white				030_P_63
W45/30	45	Third	UPVC casement	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_62
				range box-sash window with		tongue, refer to		pulley, lifts and	
14/45 /2 :	<u> </u>	Th: 1	N1/A	14mm heritage dgu	Sinnel III	drawings	NO.	hook catch	020 2
W45/31	45	Third	N/A	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_62
				range box-sash window with 14mm heritage dgu		tongue, refer to drawings		pulley, lifts and	
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W45/32	45	Third	UPVC casement	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_62
				range box-sash window with 14mm heritage dgu		tongue, refer to drawings		pulley, lifts and hook catch	
W45/33	//5	Third	N/A	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_62
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W46/01	46	Ground	Solid-core fire door	Replace with glazed	Signal white				
				hardwood doors as per					
				drawing					
W46/10	46	First	Modern timber sash, poor	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_60
			condition	range box-sash window with		tongue, refer to		pulley, lifts and	
				14mm heritage dgu		drawings		hook catch	
W46/11	46	First	Modern timber sash, poor	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_60
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				14mm heritage dgu		drawings		hook catch	
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			Condition	range box-sash window with 14mm heritage dgu		tongue, refer to drawings		pulley, lifts and hook catch	
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W46/20	46	Second	Modern timber sash, poor	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_60
.,==			condition	range box-sash window with		tongue, refer to		pulley, lifts and	
				14mm heritage dgu		drawings		hook catch	
W46/21	46	Second	Modern timber sash, poor	Mumford and Wood Classic	Signal white	22mm Lambs	NO	Brass sash	030_P_60
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		1		14mm heritage dgu		drawings		hook catch	
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W46/22	46	Second	Modern timber sash, poor	Mumford and Wood Classic	Signal white	22mm Lambs	NO	D1 033 30311	050_1_01
W46/22	46	Second	Modern timber sash, poor condition		Signal white	22mm Lambs tongue, refer to	NO	pulley, lifts and	030_1_01
				Mumford and Wood Classic range box-sash window with 14mm heritage dgu		tongue, refer to drawings	NO		030_1_01
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W46/23	46	Second	condition  Modern timber sash, poor condition	Mumford and Wood Classic range box-sash window with 14mm heritage dgu Mumford and Wood Classic range box-sash window with 14mm heritage dgu	Signal white	tongue, refer to drawings 22mm Lambs tongue, refer to drawings	NO	pulley, lifts and hook catch Brass sash pulley, lifts and hook catch	030_P_61
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W46/23	46	Second	condition  Modern timber sash, poor condition  Modern timber sash, poor	Mumford and Wood Classic range box-sash window with 14mm heritage dgu Mumford and Wood Classic range box-sash window with 14mm heritage dgu Mumford and Wood Classic	Signal white	tongue, refer to drawings 22mm Lambs tongue, refer to drawings 22mm Lambs	NO	pulley, lifts and hook catch Brass sash pulley, lifts and hook catch Brass sash	030_P_61
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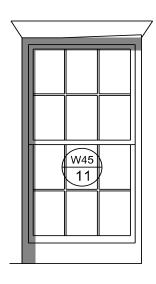






Recessed double-glazed uPVC sash windows with stuck-on glazing bars.

Condition: Good, though clearly not appropriate

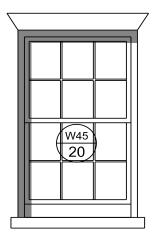






Recessed double-glazed uPVC sash windows with stuck-on glazing bars **Condition:** Good, though clearly not appropriate

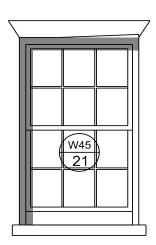
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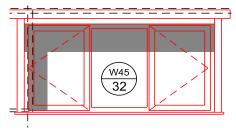
Recessed double-glazed uPVC sash windows with stuck-on glazing bars **Condition:** Good, though clearly not appropriate





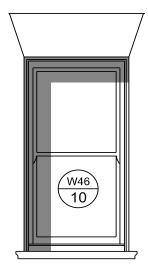
Recessed double-glazed uPVC sash windows with stuck-on glazing bars **Condition:** Good, though clearly not appropriate

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Triple uPVC casement within lead-cheeked dormer with bitumen felt roof **Condition:** Poor and in need of replacement



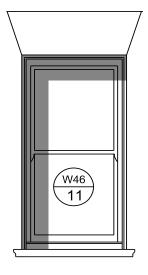




Modern single-glazed timber-framed sash (no glazing bars)

Condition: Moderate. In need of redecoration and some repairs.

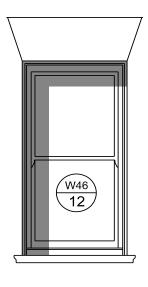
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Modern single-glazed timber-framed sash (no glazing bars) **Condition:** Moderate. In need of redecoration and some repairs.



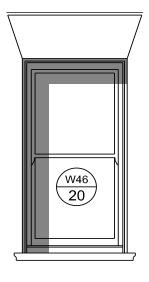




Modern single-glazed timber-framed sash (no glazing bars)

Condition: Moderate. In need of redecoration and some repairs.

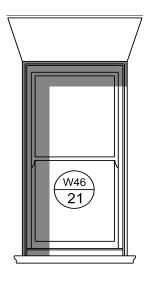
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Modern single-glazed timber-framed sash (no glazing bars) **Condition:** Moderate. In need of redecoration and some repairs.



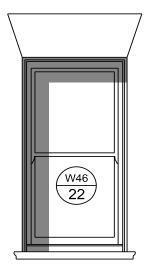




Modern single-glazed timber-framed sash (no glazing bars)

Condition: Moderate. In need of redecoration and some repairs.

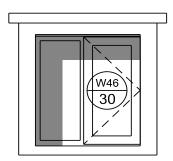
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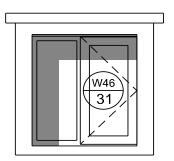






Modern single-glazed timber-framed sash (no glazing bars) **Condition:** Moderate. In need of redecoration and some repairs.

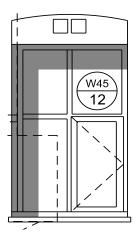






2no. uPVC casement windows - individual dormers with tiled cheeks and bitumen felt roofs. **Condition:** Poor and in need of replacement

Emil Eve Architects 63/82

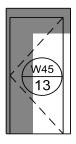






uPVC casement window with timber panel and extract grills above

Condition: Poor and in need of replacement



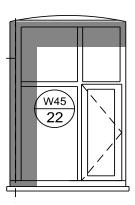




Solid timber door for roof access only

Condition: Poor. Much of the wood is rotten and in need of repair

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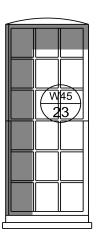






uPVC casement window

Condition: Poor and in need of replacement



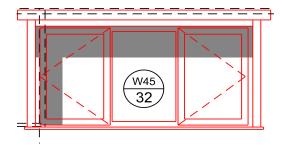




Original large timber sash

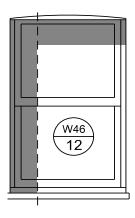
**Condition:** Poor. In need of careful repair and re-decoration.

Emil Eve Architects 65/82





Triple uPVC casement within lead-cheeked dormer with bitumen felt roof **Condition:** Poor and in need of replacement



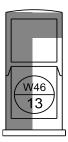




Modern single-glazed timber-framed sash (no glazing bars)

Condition: Poor. In need of redecoration and extensive repairs.

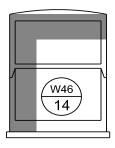
Emil Eve Architects 66/82





Modern single-glazed (obscure glass) timber-framed sash (no glazing bars).

**Condition:** Poor. In need of redecoration and extensive repairs.

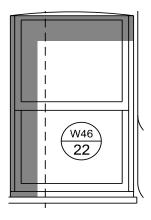






Modern single-glazed (obscure glass) timber-framed sash (no glazing bars) **Condition:** Poor. In need of redecoration and extensive repairs.

Emil Eve Architects 67/82

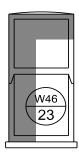






Modern single-glazed timber-framed sash (no glazing bars)

Condition: Poor. In need of redecoration and extensive repairs.

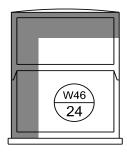






Modern single-glazed timber-framed sash (no glazing bars) **Condition:** Poor. In need of redecoration and extensive repairs.

Emil Eve Architects 68/82

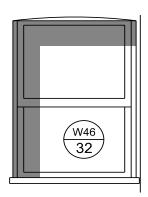






Modern single-glazed timber-framed sash (no glazing bars)

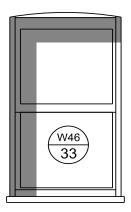
Condition: Poor. In need of redecoration and extensive repairs.





Modern single-glazed timber-framed sash (no glazing bars) **Condition:** Poor. In need of redecoration and extensive repairs.

Emil Eve Architects 69/82







Modern single-glazed timber-framed sash (no glazing bars)

Condition: Poor. In need of redecoration and extensive repairs.

Emil Eve Architects 70/82