

Waltham Abbey Royal Gunpowder Factory  
( Former RARDE North Site )

Bridge Report

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**ERRATUM**

ALL WAP94 PHOTOGRAPH NUMBERS IN 'BRIDGE REPORT' ARE SUFFIXED WITH THE LETTER B FOR NEGATIVE LOCATION PURPOSES.

EXAMPLE:           WAP94 CP025  
                          becomes  
                          WAP94 CP025B

## **Waltham Abbey Royal Gunpowder Factory ( Former RARDE North Site )**

### **Introduction**

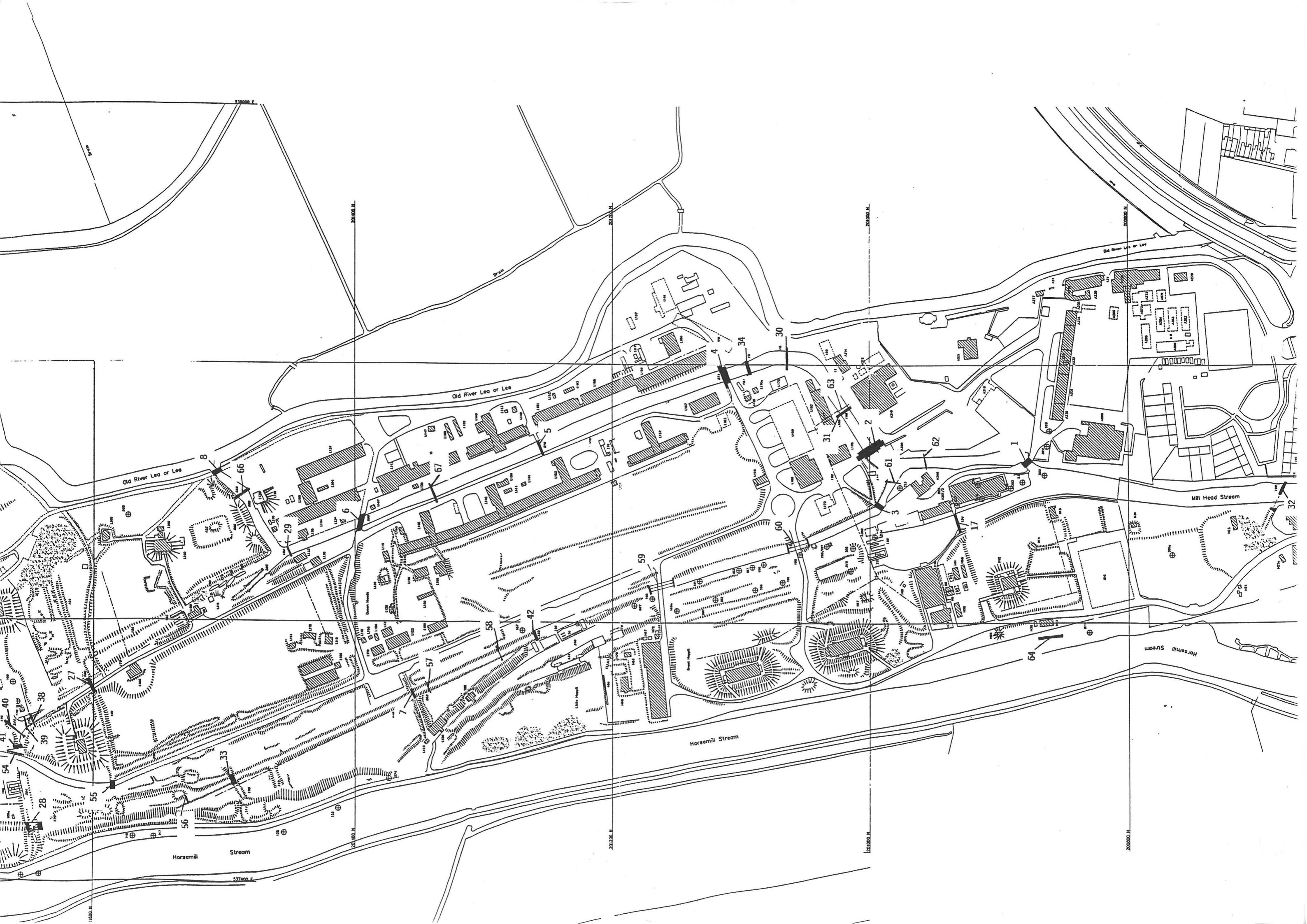
The aim of this report was to produce a record of the known bridges and service crossings on the North site which would be flexible enough to be added to, corrected and expanded in the future. It should not be regarded as a structural survey and any comments on the condition or stability of the bridges should be regarded as superficial visual impressions only.

Until now none of the crossings had MoD numbers and only half had RCHM numbers generated during the survey in 1993. Roughton Construction Engineers were commissioned to carry out a detailed survey of twenty of the major bridges also in 1993, this report includes those structures and continues their numbering system. The Royal Commission numbering system has been continued and RCHM component cards have been generated to expand that particular archive.

The report is in table form rather than prose for the following reasons;

- information is more accessible rather than hidden in text
- each box is expandable to accommodate new information
- new boxes or tables can be added easily
- tables can be removed and inserted to other relevant texts

It will be noticed that some bridges have no accompanying photograph. This is because the remains of those crossings are so slight that a photo would be meaningless in the context of this report. Archive photographs have been taken of these examples.





WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 01	132	Flagstaff Road Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1832	TL 37725 00877	Fair/Good
DESCRIPTION and CONDITION		
<p>Cast Iron ribbed bridge with 6 arched ribs set on brick abutments. The deck is concrete with hand rails on either side.</p> <p>Original weight limit 2.5 tonne axle load reduced to 1.9 ton.</p> <p>Refer to Roughton survey report for detail of condition and drawings.</p> <p>The bridge also carries service pipes which are slung along eastern side.</p>		
PHOTO NO.	DIMENSIONS	
(RCHME) WAP94 CP025 206/E/22 BB92/26065	L.- 7.00m W.- 3.90m	
DOCUMENTARY SOURCES		
<p>1993 Roughton <u>Bridge Assessment</u> p13-20 Drg. No 1 May 1993</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)</p>		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 02	130	Road Bridge - Bailey Type
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
Late 1960s    Early 1970s	TL 37735 01000	Good
DESCRIPTION and CONDITION		
<p>Bailey type road bridge with 5 Tonne axle load limit. Steel structure with a timber deck with a footbridge on the eastern side, both set on concrete abutments. Refer to Roughtons survey for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP039	L.- 12.37m W.- 4.11m Ht.- 1.55m	
DOCUMENTARY SOURCES		
1993 Roughtons <u>Bridge Assessment</u> p.21 - 29 Drg. No 02 May 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 03	133	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
Late 1960s Early 1970s	TL 37690 00992	Good
DESCRIPTION and CONDITION		
<p>Modern footbridge constructed of two steel RSJs supporting a timber and asphalt deck and two tubular steel handrails.</p> <p>The bridge is set upon brick and concrete abutments. The bridge is flanked on either side by a number of service pipes</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
(RCHME) WAP94 CP040 206/E/24	L.- 6.85m W.- 1.64m	
DOCUMENTARY SOURCES		
<p>1993 Roughtons <u>Bridge Assessment</u> p.30-36 Drg. No.03 May 1993</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)</p>		





WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 04	271	Road Bridge - Bailey Type
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
Mid 1950s Early 1960s	TL 37793 01115	Good
DESCRIPTION and CONDITION		
<p>Bailey type road bridge with 5 tonne axle load limit. Similar to bridge 02. Steel structure with a timber deck and a footbridge on the north side. The abutments seem to be concrete with timber piles.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p> <p>The bridge also carries a number of service pipes. The letters MKII are welded to either end of the bridge.</p>		
PHOTO NO.		DIMENSIONS
(RCHME) WAP94 CP023 206/Q/25		L.- 12.37m W.- 5.43m
DOCUMENTARY SOURCES		
<p>1993 Roughtons <u>Bridge Assessment</u> p.37-44 Drg. No. 04 May 1993</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)</p> <p>1965 Drg. No. L-B.17 Plans and elevations of footbridge 10/9/1965</p>		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 05	279	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1957	TL 37735 02156	Good
DESCRIPTION and CONDITION		
<p>The footbridge is constructed of a steel frame supporting a timber deck. All set on concrete abutments and has tubular steel handrails on either side. Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP022	L.- 9.85m W.- 1.95m	
DOCUMENTARY SOURCES		
1993 Roughtons <u>Bridge Assessment</u> Drg. No. 05 May 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished) 1957 Drg. No. L-B.10 Plans and Elevations 22/7/1957		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 06	269	Road Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1955	TL 37675 01395	Good
DESCRIPTION and CONDITION		
<p>Reinforced concrete bridge with a concrete and asphalt deck. Bridge set on concrete abutments with rocker bearings between has tubular steel handrails on either side.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
(RCHME) WAP94 CP021 206/Q/20	L.- 12.53m W.- 4.26m	
DOCUMENTARY SOURCES		
<p>1993 Roughtons <u>Bridge Assessment</u> p.50-57 Drg. No. 06 June 1993</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)</p> <p>1954 Drg No. L- B.05 (XD1/2)</p>		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 07	507	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1960s	TL 37545 01345	Good
DESCRIPTION and CONDITION		
<p>The bridge is constructed with a thick timber plank deck supported by two RSJ which in turn rest upon concrete abutments.  Refer to Roughtons survey report for details of condition and drawings.  Tubular steel handrails fitted are on either side.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP020	L.- 6.80m W.- 1.30m	
DOCUMENTARY SOURCES		
1993 Roughtons <u>Bridge Assessment</u> p.58-64 Drg No. 07 June 1993		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 08	228	Road Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
Late 1960s early 1970s	TL 37680 02106	Good
DESCRIPTION and CONDITION		
<p>The bridge is constructed of concrete and steel. The deck, made up of concrete and asphalt is supported by RSJs which in turn lie on concrete abutments. Handrails are fitted to either side of the bridge with the outer security fence attached to the eastern side.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP018	L.- 7.50m W.- 3.05m	
DOCUMENTARY SOURCES		
1993 Roughtons <u>Bridge Assessment</u> p.63-71 Drg. No. 08 April 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 09	151	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
Late 1960s Early 1970s	TL 37725 01675	Fair/Poor
DESCRIPTION and CONDITION		
<p>The footbridge is made of timber and steel similar in construction to 07. The timber plank deck is supported by two RSJs which rest on concrete abutments. Handrail present on the northern side with the outer security fence attached to the southern edge.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP017	L.- 11.60m W.- 1.60m	
DOCUMENTARY SOURCES		
1993 Roughtons <u>Bridge Assessment</u> p.72-77 Drg. No. 09 April 1993		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 10	117	Brick Arch Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878/9	TL 37597 01800	Good
DESCRIPTION and CONDITION		
<p>The bridge is a brick arch supported to concrete abutments. It is constructed of blue engineers bricks and red/yellow stocks. The parapets, also of brick, have stone plaques set in either side with RGPF VR 1878 inscribed.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p> <p>5 tonne axle load limit.</p>		
PHOTO NO.	DIMENSIONS	
(RCHME) WAP94 CP016 206/J/3	L.- 10.50m W.- 3.80m Ht.- 4.40m (parapet to water)	
DOCUMENTARY SOURCES		
1993 Roughtons <u>Bridge Assessment</u> p.78-84 Drg. No. 10/1-2 April 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 11	238	Road Bridge - Bailey Type
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1971	TL 37715 02041	Good
<b>DESCRIPTION and CONDITION</b>		
<p>Bailey type bridge constructed of five steel panels which support a timber plank deck. The bridge is set on brick and timber abutments.  Refer to Roughtons survey report for details of condition and drawings.  "MKII" has been welded onto either end of the bridge.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP014	L.- 15.41m W.- 4.13m	
<b>DOCUMENTARY SOURCES</b>		
1993 Roughtons <u>Bridge Assessment</u> p.85-91 Drg. No. 11 May 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished) 1971 Drg. No. S- B.49 22/6/1971		





WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 12 New BR 12	506	Steel Trough Road Bridge Concrete Box Culvert
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1972 (demolished Oct 1993) Rebuilt Dec 1993	TL 37653 02251	Demolished
DESCRIPTION and CONDITION		
<p>For Old Bridge refer to Roughtons survey report for details of condition and drawings. The new crossing is a box section concrete culvert. See documentary sources for drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP011		
DOCUMENTARY SOURCES		
<p>1993 Roughtons <u>Bridge Assessment</u> p.91-98 Drg. No. S- B.53 1971 Drg. No. S - B. 53 Plans and Elevations 1993 Drg. No. 2247/101/102 Control Structure</p>		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 13	106	Aqueduct
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940	TL 37546 01935	Good/ Fair
<b>DESCRIPTION and CONDITION</b>		
<p>Concrete aqueduct constructed of 5 concrete pipes overlain with poured concrete. At present no canal runs over the structure although the embankments and tow path still exist.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.		DIMENSIONS
(RCHME) WAP94 CP005 206/H/35 206/T/11		L.- 10.97m W.- 15.55m
<b>DOCUMENTARY SOURCES</b>		
<p>1993 Roughtons <u>Bridge Assessment</u> p.98-105 Drg. No. 13 1-2</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)</p>		



<b>WALTHAM ABBEY RARDE SITE BRIDGE REPORT</b>		
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<b>SITE NO.</b>	<b>RCHME NO.</b>	<b>BRIDGE TYPE</b>
BR 14	112	Cast Iron Aqueduct

<b>CONSTRUCTION DATE</b>	<b>GRID REF.</b>	<b>INITIAL CONDITION</b>
1878/9	TL 37565 01800	Good

<b>DESCRIPTION and CONDITION</b>
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The aqueduct is constructed of cast iron panels. Each side piece is a single panel and the trough base is of iron plates bolted to the side sections. The aqueduct sits on brick abutments. the remains of a timber walkway exists on either side.  
Refer to Roughtons survey report for details of condition and drawings.

<b>PHOTO NO.</b>	<b>DIMENSIONS</b>
(RCHME) WAP94 CP015 206/D/17, 206/D/18 206/H/23, BB92/26105 BB92/26168, BB92/26169 BB92/26491	L.- 9.32m W.- 3.25m Dp.- 1.3m

<b>DOCUMENTARY SOURCES</b>
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1993 Roughtons Bridge Assessment p.105-111 Drg. No. 14 April 1993  
1993 RCHME Royal Gunpowder Factory Waltham Abbey Report (unpublished)



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 15	214	Cast Iron Aqueduct/Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878/9 1944?(bridge)	TL 37584 02131	Good/ Fair
DESCRIPTION and CONDITION		
Originally a cast iron aqueduct similar to 14. Later adapted to become a footbridge. The structure was also used to suspend a pipe across the Old River Lea. Refer to Roughtons survey report for details of condition and drawings.		
PHOTO NO.	DIMENSIONS	
WAP94 CP008	L.- 9.80m W.- 3.10m Dp.- 1.45m	
DOCUMENTARY SOURCES		
1903 WASC 901/198 27/5/03 Aqueduct No.5 (corrected to No.2) 1903 WASC 901/199 3/6/03 Aqueduct No.5 1993 Roughtons <u>Bridge Assessment</u> p.111-118 Drg. No. 15 April 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 16	113	Brick Arch Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878/9	TL 37548 01761	Good
DESCRIPTION and CONDITION		
<p>This brick arch bridge is similar in design to 10 with blue engineers bricks and red/yellow stocks.  Refer to Roughtons survey report for details of condition and drawings.  A stone plaque inset into the parapet reads, " RGPF VR 1878"</p>		
PHOTO NO.	DIMENSIONS	
(RCHME) 206/H/24    206/Q/26 BB92/26104 BB92/26459 WAP94 CP003	L.- 7.30m W.- 3.10m Ht.- 4.75m (parapet to canal base)	
DOCUMENTARY SOURCES		
1993 Roughtons <u>Bridge Assessment</u> p.119-126 Drg. No. 16/ 1-2 May 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 17	134	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
pre 1947	TL 37676 00931	Fair
DESCRIPTION and CONDITION		
<p>The footbridge is constructed of steel trusses rivetted together supporting a timber deck. To the west the abutment is concrete, to the east the bridge is set upon a brick pier.</p> <p>Refer to Roughtons survey report for details of condition and drawings.</p> <p>The bridge also supports a number of pipes and cables.</p>		
PHOTO NO.		DIMENSIONS
(RCHME) WAP94 CP024 206/K/6 206/S/33 206/S/34		L.- 12.60m W.- 1.30m
DOCUMENTARY SOURCES		
<p>1993 Roughton Bridge Assessment p.127-136 Drg. No. 17 April 1993</p> <p>1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)</p>		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 18	508	Culvert Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37476 01783	Poor
DESCRIPTION and CONDITION		
<p>The structure consists of a single vitrified pipe running under Long Walk with brick head walls east and west. Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP004	L.- 6.60m W.- 0.45m	
DOCUMENTARY SOURCES		
1993 Roughton <u>Bridge Assessment</u> p.137-140 Drg. No. 18 April 1993		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 19	230	Road Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878? repair ?	TL 37516 01795	Poor
DESCRIPTION and CONDITION		
<p>This bridge displays various phases of construction. It was originally a brick and masonry arch and was subsequently extensively repaired with concrete. Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP015	L.- 4.80m W.- 3.15m Ht.- 2.50m	
DOCUMENTARY SOURCES		
1993 Roughton <u>Bridge Assessment</u> p.140-142 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		





WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 20	250	Cast Iron Aqueduct
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1914?	TL 37610 02175	Poor(damaged)
DESCRIPTION and CONDITION		
<p>This is a later example of a cast iron aqueduct. The sides of the trough are made up of smaller panels of cast iron which are bolted together, as was the trough base. Most of the base is missing and a number of the side panels are severely damaged. Refer to Roughtons survey report for details of condition and drawings.</p>		
PHOTO NO.	DIMENSIONS	
(RCHME) 206/O/24 206/O/25 206/O/29 BB92/26289 WAP94 CP009	L.- 14.00m W.- 3.80m Ht.- 1.30m	
DOCUMENTARY SOURCES		
1993 Roughton <u>Bridge Assessment</u> p.143-149 Drg. No. 20 May 1993 1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 21	264	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1880s?	TL 37545 02370	Poor/Fair
DESCRIPTION and CONDITION		
<p>The bridge is constructed of an angle iron frame forming a semi circular arch with timber steps and deck. The bridge is attached to brick and concrete abutments by means of vertical bolts set into sandstone blocks. A boot scraper is situated on the south west corner of the bridge. The steel frame although corroded appears sound as do the abutments. The main problem as in many cases is with vegetative damage caused by young trees.</p>		
PHOTO NO.		DIMENSIONS
(RCHME) WAP94 CP007 206/Q/4		L.- 9.45m W.- 0.97m
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 22	182	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1890?	TL 37437 02290	Poor
DESCRIPTION and CONDITION		
<p>This footbridge is built from angle irons which once supported steps and a timber deck both have long since rotten away. A number of the iron members are severely corroded and extensive damage has been caused by the encroaching trees.</p>		
PHOTO NO.	DIMENSIONS	
(RCHME) 206/B/33	WAP93 CP033	L.- 10.95m W.- 1.59m
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 23	255	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1880s?	TL 37507 02235	Fair/Poor
DESCRIPTION and CONDITION		
<p>This bridge is very similar in construction to 21; semi circular arch built of angle irons and timber. The supporting piers are also similar. The timber has all but gone leaving a fairly stable frame.</p>		
PHOTO NO.		DIMENSIONS
(RCHME) WAP93 CPO46 206/O/31 206/O/32		L.- 9.48m W.- 0.97m Ht.- 3.60m(above canal base)
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 24	254	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1880s?	TL 37585 02200	Fair
DESCRIPTION and CONDITION		
This bridge is similar to 21 and 23 in construction and condition. Less affected by tree damage.		
PHOTO NO.	DIMENSIONS	
(RCHME) WAP93 CP039 206/O/30 BB92/26287	L.- 9.48m W.- 0.98m Ht.- 3.60m(above canal base)	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 25	102	Pipebridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940	TL 37575 01973	Fair/Poor
DESCRIPTION and CONDITION		
<p>This bridge carried an acid pipe, compressed air pipe and a steam main from the acid factory to the new nitroglycerine plant on New Hill over the Cornmill Stream. It is believed that the acid pipe was never used. The bridge is constructed of angle irons forming a single span. Although corroded the main supporting member appear to be sound.</p>		
PHOTO NO.		DIMENSIONS
(RCHME) WAP93 CP038 206/I/20 206/N/7		L.- 14.00m W.- 1.80m
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 26	103	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1904?	TL 37602 01884	Fair/Poor
DESCRIPTION and CONDITION		
<p>This Bridge is another example of the semi circular arched footbridges. As with the others the timber decking and steps have decayed but the angle iron frame appears to be intact.</p>		
PHOTO NO.	DIMENSIONS	
(RCHME) WAP93 CP043 206/I/24 206/T/15 BB92/26170	L.- 9.40m W.- 1.73m Ht.- 2.3m(above Canal Base)	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 27	180	Aqueduct
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878	TL 37552 01598	Poor/Fair
DESCRIPTION and CONDITION		
<p>The aqueduct is constructed of brick with brick head walls which have tie-rods running through its length.</p> <p>The over lying canal has been completely filled in, the lower canal has silted up. The western head wall is collapsing outward.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP027	L.- 2.80m W.- 12.10m	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		





WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 28	170	Aqueduct
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1806-27	TL 37442 01640	Good/ Fair
DESCRIPTION and CONDITION		
<p>This aqueduct is constructed of brick and has earth embankments to carry the main press house canal over a lower drain. Although both waterways are redundant the brick head walls and earth embankments are in reasonable condition. Concrete blocks on the tow path perhaps represent the position of a footbridge.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP008	L.- 6.40m W.- 12.55m Ht.- 2.25m	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 29	184	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1880s?	TL 37654 01449	Fair
DESCRIPTION and CONDITION		
<p>This span is another example of the semicircular bridges. As with the other cases the framework is complete but the timber is either missing or in an advanced stage of decay.</p>		
PHOTO NO.	DIMENSIONS	
(RCHME) WAP93 CP037 206/C/16	L.- 9.50m W.- 0.96m Ht.- 3.50m(above canal fill)	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 30	123	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1950s /1960s?	TL 37805 01065	Fair
DESCRIPTION and CONDITION		
<p>The footbridge is constructed of one large RSJ supported on tall brick piers. Wooden steps on either side access a timber deck which lies on the beam. Two timber hand rails are attached to this deck. Some of the timbers need replacing and perhaps the hand rails but the rest of the structure seems to be stable.</p>		
PHOTO NO.		DIMENSIONS
(RCHME) WAP93 CP022 206/E/7		L.- 17.50m W.- 1.70m Ht.- 2.65m
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 31	126	Footbridge/Pipe bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
pre 1945	TL 37765 01017	Poor
DESCRIPTION and CONDITION		
<p>Bridge constructed of angle irons braced with cross pieces. Most members are rivetted. The metal structure supports a timber deck, now mostly rotten. The steps on either end have been removed and the structure is leaning. It appears to have been a pipe bridge after the removal of the steps.</p>		
PHOTO NO.	DIMENSIONS	
(RCHME) WAP93 CP019 206/E/8	L.- 14.00m W.- 1.40m Ht.- 2m	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 32	100	Swing Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37700 00683	Demolished
DESCRIPTION and CONDITION		
<p>Remains of a narrow gauge railway swing bridge. Consist of a triangular concrete pier set in the middle of Millhead Stream. This pier is supported above the water level by three concrete piles. Surrounding this are a number of timber piles of unknown function. On the west bank is an iron pivot set into concrete 2.80m to the west of this stands the concrete mounting point for the bridge.</p> <p>There are three steps to the south up to the level of the railway causeway. The concrete block has a curved face to the east to allow the end of the bridge to swing into place. There is no evidence of the rest of the structure.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP034	Not Available	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 33	120	Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37465 01487	Poor
<b>DESCRIPTION and CONDITION</b>		
<p>Rough bridge constructed of unmortared bricks, a precast concrete pipe and railway sleepers. There are two earthwork causeways leading up to the bridge. Overgrown and not very stable.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP010	L.- 7.00m W.- 4.50m	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 34	122	Foot/Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1878?/1940s?	TL 37800 01095	Fair
DESCRIPTION and CONDITION		
<p>The present structure is built of timber and used to carry steam pipes across the canal. Immediately to the north are brick abutments of a former footbridge. Slots incorporated into the the brickwork appear to have allowed a board to be lowered into place to seal the channel. The bricks and style are similar to the 1878 bridges.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP023	L.- N/A W.- 2.50m Ht.- 1.95m	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 35	191	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37424 01922	Very Poor
DESCRIPTION and CONDITION		
Only two timber trestles remain of this crossing on the east and west banks of the disused canal.		
PHOTO NO.	DIMENSIONS	
WAP93 CP016	Est. L.- 5.60m W.- 1.40m	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		





WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 36	202	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1890s?	TL 37643 02044	Fair
DESCRIPTION and CONDITION		
The footbridge consists of an angle iron frame supporting a timber deck. Serivce pipes were also carried by hoops attached to either side of the bridge.		
PHOTO NO.	DIMENSIONS	
WAP93 CP042	L.- 8.50m W.- 1.30m Ht.- 2.25m	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 37	212	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1895?	TL 37575 02116	Poor
DESCRIPTION and CONDITION		
<p>This bridge is constructed of timber for the most part and is supported by two timber trestles on the north and south banks. The bridge also supported a walkway on the eastern side. Carried wash water from the nitrator E2 to E4.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP041	L.- 13.20m W.- 2.20m Ht.- 2.35m	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 38	173	Pipebridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1890s-1900?	TL 37523 01648	Fair
DESCRIPTION and CONDITION		
Steel framed bridge carrying two steam mains over the canal. appears to be sound with no serious corrosion.		
PHOTO NO.	DIMENSIONS	
WAP93 CP004	L.- 8.05m W.- 0.75m Ht.- 2.40m	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 39	174	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1880s-1890s	TL 37523 01653	Fair
DESCRIPTION and CONDITION		
<p>The footbridge is constructed of angle irons which support timber steps and decking similar in design to BR 22 but rising higher above the canal. Most of the timbers are rotten and some of the angle irons are badly corroded.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP003	L.- 9.30m W.- 1.05m Ht.- 2.25m	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 40	176	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940-1950s	TL 37498 01667 37500 01652	Fair
DESCRIPTION and CONDITION		
<p>This is actually a large pipe probably carrying steam which has been shaped to cross the canal allowing access for barges underneath. The pipe is supported by two metal cables attached to the centre of the span and to two tall concrete posts set in either bank. The posts are damaged as are the cables the pipe is at present supported by a later timber pile in the center of the span.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP005	L.- 15.80m W.- 0.70m Ht.- 3.15m	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 41	177	Lifting Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
pre 1940	TL 37501 01661	Poor
DESCRIPTION and CONDITION		
<p>Remains of a lifting footbridge constructed of a timber box on the north bank (2.5m by 2.15m) with an iron pivot bar. The bridge spanned the canal (4.25m). On the south bank is a concrete landing with two catch plates. Most of the timber is rotten.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP007	L.- 6.90m W.- 2.55m	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey Report</u> (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 42	223	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1880s	TL 37586 01264	Poor
<b>DESCRIPTION and CONDITION</b>		
Only the two supporting timber trestles survive on either side of the canal. Originally carried the path between the dusting house 159 and the shoe room 157.		
PHOTO NO.	DIMENSIONS	
WAP94 CP019	L.- 9.00m W.- 1.80m	
<b>DOCUMENTARY SOURCES</b>		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 43	253	Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940?	TL 37600 021150	Poor
DESCRIPTION and CONDITION		
<p>Two brick piers survive on either site of the Old River Lea, capped by concrete slabs with vertical mounting bolts. The sawn off remains of the bridge supports are in the river. The bridge carried a nitroglycerine gutter and other services from E3 wash house to the mixing house 46a.</p>		
PHOTO NO.	DIMENSIONS	
Not available	Not Available	
DOCUMENTARY SOURCES		
1993 RCHME <u>Royal Gunpowder Factory Waltham Abbey</u> Report (unpublished)		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 44	505	Pipe/ Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37545 02348	Poor/demolished
DESCRIPTION and CONDITION		
Only one timber trestle survives on the west bank of the canal. Actual function unknown.		
PHOTO NO.	DIMENSIONS	
WAP94 CP006	W.- 2.20m	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 45	509	Pipe/ Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37520 02280	Poor/demolished
DESCRIPTION and CONDITION		
Only one timber trestle survives of this bridge.		
PHOTO NO.	DIMENSIONS	
Not available	unknown	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 46	510	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37452 02240	Fair
DESCRIPTION and CONDITION		
The bridge consists of a timber box surrounding the pipe(s). Roofing felt caps the structure over the span. The timber and felt is in reasonable condition.		
PHOTO NO.	DIMENSIONS	
WAP93 CP017	L.- 8.70m W.- 0.20m	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 47	511	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1890s	TL 37543 021163	Poor(demolished)
DESCRIPTION and CONDITION		
One timber support remains of this bridge which carried the guttering for nitroglycerine from the nitrator E2 to the washing house E3.		
PHOTO NO.	DIMENSIONS	
WAP93 CP040	Not Available	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 48	512	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
c. 1850s	TL 37505 02116	Demolished
DESCRIPTION and CONDITION		
Four truncated timbers survive in the canal bed no bank supports can be seen.		
PHOTO NO.	DIMENSIONS	
No Photographs available	Not Available	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 49	513	Aqueduct
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
pre 1886	TL 37418 01977	Fair
DESCRIPTION and CONDITION		
Subterranean aqueduct/culvert constructed of brick and concrete. Precise construction unknown.		
PHOTO NO.	DIMENSIONS	
WAP93 CP024	L.- unknown W.- 4.00m	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 50	514	Brick Road Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1850-86	TL 37455 01976	Poor(partially demolished)
DESCRIPTION and CONDITION		
<p>Yellow brick road bridge in English Bond. The spanning structure is missing but the embankment walls and abutments survive in good condition. Grooves can be observed in the brickwork where it is presumed boards could be fitted to dam up sections of the canal.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP044	L.- 3.30m W.- approx 3.00m	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 51	515	Footbridge/pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940?	TL 37665 01976	Demolished
DESCRIPTION and CONDITION		
<p>Only two brick piers remain on either side of a disused canal. Built of yellow stocks in Flemish Bond with concrete capping. Steel loop steps are set into the brickwork on both piers. Pipe supports have been bolted on at a later date.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP002	L.- 12.00m W.- 1.40m	
DOCUMENTARY SOURCES		





WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 52	516	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37434	Demolished
DESCRIPTION and CONDITION		
Only concrete block abutments survive.		
PHOTO NO.	DIMENSIONS	
Not available	Dims of blocks 0.85m by 0.75m	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 53	517	Pipe culvert
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37435 01825	Fair
DESCRIPTION and CONDITION		
Very crude construction, one concrete pipe surrounded by unmortared brickwork. Seems to be in a stable condition.		
PHOTO NO.	DIMENSIONS	
WAP93 CP002	L.- 3.20m W.- 2.90m pipe dia. 0.60m	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 54	518	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
pre 1940	TL 37497 01660	Fair
DESCRIPTION and CONDITION		
Constructed of an angle iron frame with flat cross pieces. This supports a narrow timber deck together with a large steam pipe to one side.		
PHOTO NO.	DIMENSIONS	
WAP93 CP006	L.- 15.70m W.- 0.80m	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 55	519	Pipe Culvert
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37472 01586	Good/Fair
DESCRIPTION and CONDITION		
<p>Constructed of a large concrete pipe encased in concrete. Two side capping pieces either side of the road in which are set hand rails. The banks are retained by concrete sand bags.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP009	L.- 12.30m W.- 3.10m pipe dia 1.10m	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 56	520	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37460 01529	Fair /Poor
DESCRIPTION and CONDITION		
Consists of a pipe clad in a timber box which is capped with roofing felt. Some of the timbers have rotten and portions of the roof felt are missing.		
PHOTO NO.	DIMENSIONS	
Not available	Est. L.- 5.00m W.- 0.40m	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 57	521	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
post 1947	TL 37550 01340	Fair(disused)
DESCRIPTION and CONDITION		
<p>This bridge is constructed for at least four pipes. Built of two steel tube stanchions which support a metal pipe held on by "U" bolts. This pipe has four hooks suspended beneath it and has disused pipes attached to either side.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP011	L.- 7.15m W.- 0.85m	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 58	522	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37580 01278	Demolished
DESCRIPTION and CONDITION		
Two concrete block abutments are all that remains of this crossing.		
PHOTO NO.	DIMENSIONS	
Not available	dims of blocks 0.95m by 0.85m	
DOCUMENTARY SOURCES		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 59	523	Pipe Culvert
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
between 1955 and 1965	TL 37627 01162	Good/Fair
DESCRIPTION and CONDITION		
<p>Constructed of six concrete pipes dia. 0.60m laid next to each other across the canal. Head walls are made of concrete. Although the canal has silted up the structure appears to be sound.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP012	L.- 19.80m W.- 7.50m pipe dia 0.60m	
DOCUMENTARY SOURCES		





WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 60	524	Pipe Culvert
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1957?	TL 37660 01051	Good/Fair
DESCRIPTION and CONDITION		
Similar in design to BR 59 with six pipes and concrete head walls, the pipe are slightly larger with a 0.90m diameter.		
PHOTO NO.	DIMENSIONS	
WAP93 CP014	L.- 16.00m W.- 6.00m pipe dia 0.90m	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 61	525	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
post 1947	TL 37710 00882	Fair
<b>DESCRIPTION and CONDITION</b>		
<p>This structure is basically a timber and roofing felt cover for a pipe crossing the canal at low level. The timber of the box section cover is in fair condition, there are small portions of the felt missing.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP020	L.- 12.50m W.- 0.30m	
<b>DOCUMENTARY SOURCES</b>		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 62	526	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
pre 1945	TL 37725 00858	Fair/Good
<b>DESCRIPTION and CONDITION</b>		
Pipe bridge constructed of an angle iron frame which supports the pipe. Structure appears sound with little corrosion.		
PHOTO NO.	DIMENSIONS	
WAP93 CP018 WAP94 CP038	L.- 12.40m W.- 1.00m	
<b>DOCUMENTARY SOURCES</b>		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 63	527	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1960s?	TL 37767 01022	Good
DESCRIPTION and CONDITION		
Modern steam carrier constructed of two box shaped steel tube stanchions. Pipe is suspended between, extra welded braces have been added to the pipe at the span.		
PHOTO NO.	DIMENSIONS	
WAP93 CP021	Dims of stanchions 0.65m by 0.95m	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 64	528	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1		
<p><b>BRIDGE 64-</b></p> <p>Disposed of with the Sale of the land to Wilken. Confirmed with Wilken that WAPSEM Make no claim on this 11/3/00.</p> <p>Checked with S. Chaddock on historic value, there is none.</p> <p><i>S. Leonard.</i></p>		
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WAP93 C		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 64	528	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940-50s	TL 37592 00852	Fair
<b>DESCRIPTION and CONDITION</b>		
<p>A steel tube formed arch bridge with a timber deck which originally spanned the Horsemill Stream. It now rests on the eastern bank of the sme stream just outside the preimeter fence. The deck may need to be replaced but the frame appears undamaged.</p>		
PHOTO NO.	DIMENSIONS	
WAP93 CP045	Not Available	
<b>DOCUMENTARY SOURCES</b>		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 65	530	Footbridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
unknown	TL 37438 01736	Poor
<b>DESCRIPTION and CONDITION</b>		
Footbridge built of 5 timber joists originally supporting a planked deck (now rotten away) which rests on two brick piers.		
PHOTO NO.	DIMENSIONS	
Not available	L.- 6.00m W.- 3.50m	
<b>DOCUMENTARY SOURCES</b>		

WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 66	531	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
post 1947	TL 37705 01490	Fair
DESCRIPTION and CONDITION		
Built of an angle iron supporting frame with a box section, held up by concrete piers. The piers and the frame seem to be in good condition.		
PHOTO NO.	DIMENSIONS	
WAP93 CP026	L.- 15.00m W.- 0.45m	
DOCUMENTARY SOURCES		





WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 67	532	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
post 1947	TL 37700 01343	Fair/ Poor
DESCRIPTION and CONDITION		
Two angle iron framed stanchions support a delapidated timber box housing. Carried one pipe and telegraph wires.		
PHOTO NO.	DIMENSIONS	
WAP93 CP025	L.- 6.80m W.- 0.75m	
DOCUMENTARY SOURCES		



<b>WALTHAM ABBEY RARDE SITE BRIDGE REPORT</b>		
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<b>SITE NO.</b>	<b>RCHME NO.</b>	<b>BRIDGE TYPE</b>
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BR 68	555	Footbridge
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<b>CONSTRUCTION DATE</b>	<b>GRID REF.</b>	<b>INITIAL CONDITION</b>
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post 1947	TL 37658 02094	Demolished
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<b>DESCRIPTION and CONDITION</b>
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<p>This footbridge appears to be built after the canal had silted up and was constructed of sorted timbers, asbestos sheeting and hard board covered with gravel. There were no bank supports.</p>
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<b>PHOTO NO.</b>	<b>DIMENSIONS</b>
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Not Available	L. - 4.00m W. - 2.20m
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<b>DOCUMENTARY SOURCES</b>
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WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 69	556	Pipe Bridge
CONSTRUTION DATE	GRID REF.	INITIAL CONDITION
1936	TL 37442 02314	Poor
DESCRIPTION and CONDITION		
<p>The bridge consists of three supports carrying large steam and air pipes over the canal in front of the Quinan Stove. Supports are steel angles the pipes are galvanized steel. The complex was recently burnt out as part of the decontamination process.</p>		
PHOTO NO.	DIMENSIONS	
WAP94 CP001	Approx L. - 11.00m W. - 2.20m	
DOCUMENTARY SOURCES		



WALTHAM ABBEY RARDE SITE BRIDGE REPORT		
SITE NO.	RCHME NO.	BRIDGE TYPE
BR 70	557	Pipe Bridge
CONSTRUCTION DATE	GRID REF.	INITIAL CONDITION
1940	TL 37575 01975	Poor/Fair
DESCRIPTION and CONDITION		
<p>Similar to bridge BR 51 this also carried the Steam, Acid and compressed air services to the New Hill Nitroglycerine Plant. Constructed of Brick piers in Flemish bond with concrete capping and steel loop steps up one side of each. The pipes and gantry are missing.</p>		
PHOTO NO.	DIMENSIONS	
Not Available (refer to BR51)	Unknown	
DOCUMENTARY SOURCES		