

Historical Railways Estate

Structure Reference

Public Risk

Severity

Likelihood

Based On

Listed? Yes No

Maintenance Req'd?

Based On

Future Plans

Public Access Subtotal

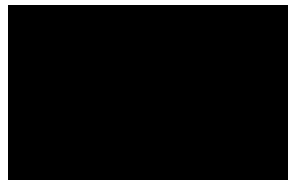
Vandalism

Flytipping

Right of Way

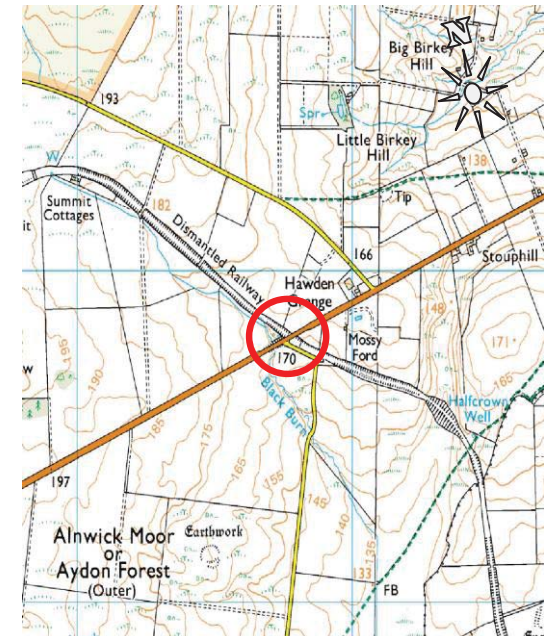
Fencing

Action/Notes Total



ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

<i>General view of structure</i>	<i>Location map</i>
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A **Detailed Examination** of this structure has been carried out to establish the condition, identify the nature, severity and extent of defects, ascertain the rate of deterioration by reference to the previous examination reports and identify the scope, extent and urgency of any remedial actions required to ensure the continued safety and long-term integrity of the structure.

Examined by:


Access Hazards:

Public access routes to the top, open access to the underneath, fast/busy road, telecoms to the north footpath, area under the structure liable to flooding in inclement weather, evidence of previous vehicular impact damage to the parapet stonework, livestock within the vicinity of the structure, vegetation maybe an impediment at future examinations, traffic management would be required for any roadside parapet work.

Recommendations:

- Replace missing fencing to SW approach and repair NE - PS £1.2k.
- Realign minor long standing displacement to parapets - P3 £3k.

Signed by Examining Engineer:


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Name of Part:	G-Good F-Fair P-Poor	Tick as appropriate:	
Parapet Main Girders	-	Operational Rail Line	-
Cross Girders	-	Canal and River Trust	-
Rail Bearers	-	Traffic Management	-
Concrete Jack Arches	-	Road closure	-
Rivets & Bolts	-	Height Restriction Plates	-
Parapet Screens	-	Weight restriction Plates	-
Arch Rings	F	Non - Dedication Plates	✓
Spandrels	F	Inaccessible Parts	✓
Abutments	F	Existing Datals, Avongards on structure	-
Piers	-	Plumbing Points	-
Wing Walls & Newel Posts	F	Masonry Parapet Risk Assessment	✓
Parapets & Pilasters	F	Underwater Examination carried out during DE	-
Columns & Cylinders	-	Vegetation removed during DE <10%	✓
Springer Course	F	<p>SERVICES</p> <p>There is evidence in the HE (HRE) 2015 Health and Safety File, previous examination reports or as noted on site to confirm the presence of any statutory services affecting the structure.</p>	
String Course	F		
Pointing	F		
Padstones	-		
Bearings	-		
Waterproofing	N/E		
Drainage	F		
Fencing/Walling	F		
Road Condition	F		
Footpath Condition	G		
Non - Dedication Plates	G		
Foundations	N/E		
Vegetation	P		
Bridge Numbers	G		
Sundries:			
Date Tabs Fitted	-	Access:	
Fitting and Setting Padlocks	-	Normal on Foot	-
Non-Dedication plates fitted	-	Ladder/Extending poles.	✓
		MEWP	-
		Abseiling	-
Miscellaneous:			
Bat Expert	-	Underwater Examination:	
CCTV	-	Probing by Examiner	-
		By Dive Team	-

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Examiner Comments on Structure Condition:

General Comments - Structure in fair condition.

Weather conditions during the detailed examination - Showers/cold.

Date of Last Examination - 17/01/2018.

Detailed Examination carried out within 12 months of Last Visual Examination AND within 6 years of Last Detailed Examination? - Yes.

Reason for Late Examination - N/A.

Underwater Examination carried out During Examination - N/A.

Changes to the Use of the Structure and/or the Surrounding Area since Last Examination - N/A.

Evidence of Repair/Maintenance/Investigation Work that appears to have been carried out since Last Examination - N/A.

Condition of Approach Fencing and Risk to the Public - Overall condition of the approach road fencing is poor, sections in disrepair with sections missing. *{Uncertain of demarcation}*

Existence and Condition of Weight Restriction Signs including Advanced Signs - N/A.

Existence and Condition of Height Restriction Signs including Advanced Signs - N/A.

Existence and Condition of Non - Dedication plates - Overall condition of the Non - Dedication plates is good.

Structure I.D Provided -Yes

New Mortar Tabs, Avongards, Plumbing Points, Pins, etc. Fitted during this Examination - N/A.

New Padlock(s) Fitted to Access Gates/Doors during this Examination - N/A.

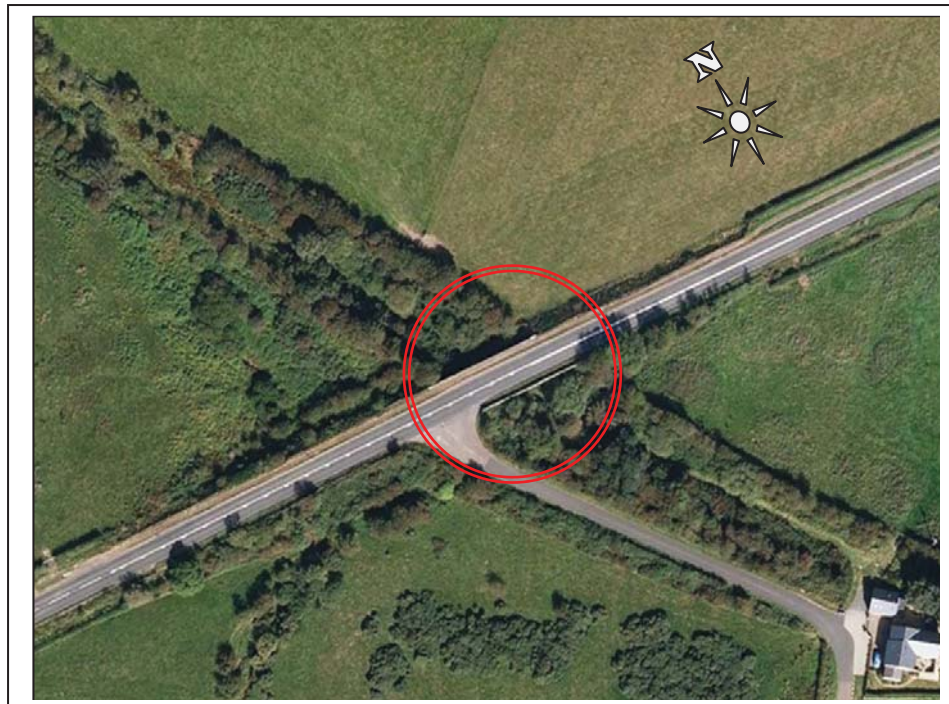
Use of Solum/Track Bed - Open access to the underneath.

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Orientation of Structure - Highlighted in red.



Aerial View- Highlighted in red.



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Examiner Comments on Structure Condition:

ARCH RINGS

Soffit

- ❖ Previous pointing repairs have been carried out in the past in various locations.
- ❖ Surface spalling to the brickwork up to 2mm at worst in isolated places behind the voussoirs.
- ❖ Discolouration, water staining with calcite deposits to the brickwork in various places worst behind the voussoirs.
- ❖ Evidence of water ingress below the verge area to the brickwork behind the voussoirs in places, worst to the N/W & S/W haunch areas.
- ❖ Some smoke discolouration to the brickwork to the former blast area. P5 to P15.

Ring Face {52No: Voussoirs to each elevation}

{Numbered sequentially West to East}

- ❖ Previous pointing repairs have been carried out in the past in various locations.
- ❖ Render repairs have been carried out in the past to the top arris of No: 4 to No: 6 voussoirs to the S/W elevation, starting to deteriorate.
- ❖ Slight to moderate erosion to the stonework in places with some loss of face in various locations worst to the bottom arris.
- ❖ Deteriorated mortar to the joints in isolated places.
- ❖ Discolouration, water staining with calcite deposits to the stonework in various places.
- ❖ Evidence of water ingress below the verge area to the stonework worst to the N/W & S/W haunch areas with more severe calcite build up to the underside. P16 to P35.

SPANDRELS

North Spandrel

- ❖ Previous pointing repairs have been carried out in the past in widespread places.
- ❖ Oversailing to 1No: Stone up to 22mm at worst to the N/E elevation above voussoirs, No: 30 to No: 32.
- ❖ Stonework repairs have been previously carried out to the N/W elevation above voussoirs, No: 15 to No: 17

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Examiner Comments on Structure Condition:

SPANDRELS {Cont}

North Spandrel {Cont}

- ❖ Slight to moderate erosion to the stonework in places with some loss of face in various locations.
- ❖ Discolouration, water staining to the stonework in various places.
- ❖ Some smoke discolouration to the stonework to the former blast area. P36 to P45.

South Spandrel

- ❖ Previous pointing repairs have been carried out in the past in widespread places.
- ❖ Slight to moderate erosion to the stonework in places with some loss of face in various locations.
- ❖ Discolouration, water staining to the stonework in various places.
- ❖ Some smoke discolouration to the stonework to the former blast area. P46 to P53.

ABUTMENTS {13.90m Long x 2.20m High with 450mm S/W & N/E returns & 920mm returns}

East Abutment

- ❖ Previous pointing repairs have been carried out in the past in various locations.
- ❖ 2No: Former S&T fixing voids to the stonework below the springer course, 780mm in from the N/E return quoin.
- ❖ 2No: Former S&T fixing voids to the stonework below the springer course, 780mm in from the S/E quoin.
- ❖ Slight to moderate laminated erosion to the stonework in places with some loss of face in various locations.
- ❖ Fissure type fractured stonework up to 2mm at worst in isolated places.
- ❖ Discolouration, water staining with calcite deposits to the stonework in various places.
- ❖ 3No: Weep holes are visible.
- ❖ 100mm of standing water in front of the abutment at the S/E end. P54 to P65.

West Abutment

- ❖ Previous pointing repairs have been carried out in the past in various locations.

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Examiner Comments on Structure Condition:

ABUTMENTS {Cont}

West Abutment {Cont}

- ❖ Slight to moderate laminated erosion to the stonework in places with some loss of face in various locations.
- ❖ Fissure type fractured stonework up to 2mm at worst in isolated places.
- ❖ Discolouration, water staining with leachate deposits to the stonework in various places.
- ❖ 3No: Weep holes are visible. P66 to P74.

WING WALLS & NEWEL POSTS

N/E Wing wall & newel post {7.20m Long x 5.00m High with 1.55m newel post}

- ❖ Previous pointing repairs have been carried out in the past in widespread places.
- ❖ Slight to moderate erosion to the stonework in places with some loss of face in various locations.
- ❖ Stonework wet to touch to the lower region of the wing wall.
- ❖ Discolouration, water staining to the stonework in various places also some moss growth in various locations at G/L.. P75 to P80.

N/W Wing wall & newel post {8.80m Long x 4.85m High with 1.55m newel post}

- ❖ Previous pointing repairs have been carried out in the past in widespread places.
- ❖ Slight to moderate erosion to the stonework in places with some loss of face in various locations.
- ❖ Stonework wet to touch to the lower region of the wing wall.
- ❖ Discolouration, water staining to the stonework in various places also some moss growth in various locations at G/L.
- ❖ Vegetation cut back during the detailed examination. P81 to P86.

S/E Wing wall & newel post {9.40m Long x 5.00m High with 1.55m newel post}

- ❖ Previous pointing repairs have been carried out in the past in widespread places.
- ❖ Slight to moderate erosion to the stonework in places with some loss of face in various locations.
- ❖ Stonework wet to touch to the lower region of the wing wall.

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Examiner Comments on Structure Condition:

WING WALLS & NEWEL POSTS {Cont}

S/E Wing wall & newel post {Cont}

- ❖ Discolouration, water staining to the stonework in various places also some moss growth in various locations at G/L.
- ❖ Vegetation cut back during the detailed examination. P87 to P93.

S/W Wing wall & newel post {6.40m Long x 4.20m High with 1.55m newel post}

- ❖ Previous pointing repairs have been carried out in the past in widespread places.
- ❖ Slight to moderate erosion to the stonework in places with some loss of face in various locations.
- ❖ Stonework wet to touch to the lower region of the wing wall.
- ❖ Discolouration, water staining to the stonework in various places also some moss growth in various locations at G/L.
- ❖ Vegetation cut back during the detailed examination. P94 to P99.

PARAPETS & PILASTERS {Below standard gauge}

North roadside elevation

{Measurements & defects taken from the west pilaster end}

- ❖ **0.00m - 9.65m** - Displacement to the stonework leaning out of alignment westwards up to 50mm at worst. *{Prolonged defect}*
- ❖ **25.25m - 32.20m** - Slight displacement to stonework leaning out of alignment northwards up to 8mm at worst. *{Prolonged defect}*
- ❖ **2.90m, 13.00m, 13.60m, 15.00m, 15.90m, 20.40m, 20.80m, & 23.80m** - Coping stones fractured to full depth & width open H/L to 3mm at worst, some have been pointed in the past.
- ❖ Some render repairs have been carried out in places showing slight deterioration in various locations.
- ❖ Slight to moderate laminated erosion to the stonework in places with some loss of face in various locations.
- ❖ Fissure type fractured stonework up to 1mm at worst in isolated places.
- ❖ Discolouration, water staining with lichen growth to the stonework in various places. P100 to P115.

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Examiner Comments on Structure Condition:

PARAPETS & PILASTERS {Cont}

North outer elevation

- ❖ Oversailing to stonework up to 50mm at worst to the N/W end. *{Prolonged defect}*
- ❖ Previous pointing repairs have been carried out in the past in widespread places.
- ❖ Slight to moderate erosion to the stonework in places with some loss of face in various locations.
- ❖ Deteriorated mortar to the joints in various places.
- ❖ Fissure type fractured stonework up to 1mm at worst in isolated places.
- ❖ Discolouration, water staining to the stonework in various places.
- ❖ Some smoke discolouration to the stonework to the former blast area. P116 to P125.

South roadside elevation

{Measurements & defects taken from the west pilaster end}

- ❖ **0.00m - 1.70m** - Previous vehicle impact damage to the stonework as the S/W pilaster region has been reconstructed at some time.
- ❖ **9.75m - 16.70m** - Displacement to the coping stones out of alignment, southwards up to 15mm at worst. *{Prolonged defect}*
- ❖ Previous pointing repairs have been carried out in the past in widespread places.
- ❖ Slight to moderate erosion to the stonework in places with some loss of face in various locations.
- ❖ Fissure type fractured stonework to the coping stones up to 2mm at worst in isolated places.
- ❖ Discolouration, water staining to the stonework in various places also some lichen growth in various locations. P126 to P136.

South outer elevation

- ❖ Previous pointing repairs have been carried out in the past in widespread places.
- ❖ Slight to moderate erosion to the stonework in places with some loss of face in various locations.
- ❖ Discolouration, water staining to the stonework in various places.
- ❖ Some smoke discolouration to the stonework to the former blast area. P137 to P145.

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Examiner Comments on Structure Condition:

SPRINGER COURSE {220mm}

- ❖ Previous pointing repairs have been carried out in the past in various locations.
- ❖ Former S&T fixing voids to the helical skew stones, 780mm from both quoins to the east elevation.
- ❖ Slight to moderate erosion to the stonework in places with some loss of face in various locations.
- ❖ Discolouration, water staining with calcite deposits to the stonework in various places.
- ❖ Stonework wet to touch at the S/W quoin into return sections. P146 to P152.

STRING COURSE {220mm}

- ❖ Previous pointing repairs have been carried out in the past in various locations.
- ❖ Slight to moderate laminated erosion to the stonework in various places with some loss of face in various places.
- ❖ Fissure type fractured stonework up to 2mm at worst in isolated places.
- ❖ Discolouration, water staining the stonework in various places also some lichen growth in various locations. P153 to P157.

POINTING

- ❖ {See elemental parts}

WATERPROOFING

- ❖ N/E: Evidence of failure due to the condition of the arch ring soffit.

DRAINAGE

- ❖ Weep holes are visible to the abutments only.
- ❖ Area under the structure liable to flooding in inclement weather. P158.

FENCING/WALLING

- ❖ Overall condition of the approach road fencing is poor, sections in disrepair with sections missing. *{Uncertain of demarcation}*
- ❖ Overall condition of the security fencing to the underneath of the structure is poor as none is provided. P159 to P162.

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Examiner Comments on Structure Condition:

ROAD CONDITION

- ❖ Road surface worn in places across the structure. P163.

FOOTPATH CONDITION

- ❖ Overall condition of the north footpath is good. P164.

NON - DEDICATION PLATES

- ❖ 2No: Non - Dedication signs provided to the N/E wing wall & S/E abutment return since the last detailed examination, overall condition is good. P165 to P166.

VEGETATION

- ❖ {See elemental parts}

FOUNDATIONS

- ❖ N/E: No visible signs of failure.

BRIDGE NUMBERS

- ❖ Structure I.D. provided in 2No: Locations. P167 to P168.

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Photographs of structure



Photo No.1 - General view: {South}



Photo No.2 – General view: {North}

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Photographs of structure



Photo No.3 – View: Across the structure looking east.



Photo No.4 - View: Across the structure looking west.

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Photographs of structure



Photo No.5 - Arch ring soffit: View.



Photo No.6 - Arch ring soffit: View.

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Photographs of structure



Photo No.7 - Arch ring soffit: Profile.



Photo No.8 - Arch ring soffit: Typical example of the condition.

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Photographs of structure



Photo No.9 - Arch ring soffit: Typical example of the condition.



Photo No.10 - Arch ring soffit: Typical example of the condition.

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Photographs of structure



Photo No.11 - Arch ring soffit: Typical example of the condition.



Photo No.12 - Arch ring soffit: Typical example of the condition.

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Photographs of structure



Photo No.13 - Arch ring soffit: Typical example of the condition.



Photo No.14 - Arch ring soffit: Typical example of the condition.

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Photographs of structure



Photo No.15 - Arch ring soffit: Typical example of the condition.



Photo No.16 - South arch ring face: View.

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Photographs of structure



Photo No.17 - South arch ring face: Typical example of the condition.



Photo No.18 - South arch ring face: Typical example of the condition.

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Photographs of structure



Photo No.19 - South arch ring face: Typical example of the condition.



Photo No.20 - South arch ring face: Typical example of the condition.

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Photographs of structure



Photo No.21 - South arch ring face: Typical example of the condition.



Photo No.22 - South arch ring face: Typical example of the condition.

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Photographs of structure



Photo No.23 - South arch ring face: Typical example of the condition.



Photo No.24 - South arch ring face: Typical example of the condition of the underside.

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Photographs of structure



Photo No.25 - North arch ring face: View.



Photo No.26 - North arch ring face: Typical example of the condition.

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Photographs of structure



Photo No.27 - North arch ring face: Typical example of the condition.



Photo No.28 - North arch ring face: Typical example of the condition.

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Photographs of structure



Photo No.29 - North arch ring face: Typical example of the condition.



Photo No.30 - North arch ring face: Typical example of the condition.

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Photographs of structure



Photo No.31 - North arch ring face: Typical example of the condition.



Photo No.32 - North arch ring face: Typical example of the condition.

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Photographs of structure



Photo No.33 - North arch ring face: Typical example of the condition.



Photo No.34 - North arch ring face: Typical example of the condition.

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Photographs of structure



Photo No.35 - North arch ring face: Typical example of the condition of the underside.



Photo No.36 - North spandrel: N/E view.

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Photographs of structure



Photo No.37 - North spandrel: N/W view.



Photo No.38 - North spandrel: Oversailing to stonework at the N/E elevation.

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Photographs of structure



Photo No.39 - North spandrel: Previous stonework repairs at the N/W elevation.



Photo No.40 - North spandrel: Typical example of the condition.

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Photographs of structure



Photo No.41 - North spandrel: Typical example of the condition.



Photo No.42 - North spandrel: Typical example of the condition.

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Photographs of structure



Photo No.43 - North spandrel: Typical example of the condition.



Photo No.44 - North spandrel: Typical example of the condition.

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Photographs of structure



Photo No.45 - North spandrel: Typical example of the condition.



Photo No.46 - South spandrel: S/E view.

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Photographs of structure



Photo No.47 - South spandrel: S/W view.



Photo No.48 - South spandrel: Typical example of the condition.

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Photographs of structure



Photo No.49 - South spandrel: Typical example of the condition.



Photo No.50 - South spandrel: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL	OS ref: NU: 158 118		
Name: ALNWICK ROAD	Type: OVERBRIDGE		

Photographs of structure



Photo No.51 - South spandrel: Typical example of the condition.



Photo No.52 - South spandrel: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL	OS ref: NU: 158 118		
Name: ALNWICK ROAD	Type: OVERBRIDGE		

Photographs of structure



Photo No.53 - South spandrel: Typical example of the condition.



Photo No.54 - East abutment: View.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.55 - East abutment: Former S&T fixing voids to the stonework at the N/E end.



Photo No.56 - East abutment: Former S&T fixing voids to the stonework at the S/E end.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.57 - East abutment: Typical example of the condition.



Photo No.58 - East abutment: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.59 - East abutment: Typical example of the condition.



Photo No.60 - East abutment: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.61 - East abutment: Typical example of the condition.



Photo No.62 - East abutment: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL	OS ref: NU: 158 118		
Name: ALNWICK ROAD	Type: OVERBRIDGE		

Photographs of structure



Photo No.63 - East abutment: Typical example of the condition at the N/E return section.



Photo No.64 - East abutment: Typical example of the condition at the S/E return section.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL	OS ref: NU: 158 118		
Name: ALNWICK ROAD	Type: OVERBRIDGE		

Photographs of structure



Photo No.65 - East abutment: Standing water at the S/E end.



Photo No.66 - West abutment: View.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.67 - West abutment: Typical example of the condition.



Photo No.68 - West abutment: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.69 - West abutment: Typical example of the condition.



Photo No.70 - West abutment: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.71 - West abutment: Typical example of the condition.



Photo No.72 - West abutment: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.73 - West abutment: Typical example of the condition at the S/W return section.



Photo No.74 - West abutment: Typical example of the condition at the N/W return section.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL	OS ref: NU: 158 118		
Name: ALNWICK ROAD	Type: OVERBRIDGE		

Photographs of structure



Photo No.75 - N/E wing wall: View.



Photo No.76 - N/E wing wall: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL	OS ref: NU: 158 118		
Name: ALNWICK ROAD	Type: OVERBRIDGE		

Photographs of structure



Photo No.77 - N/E wing wall: Typical example of the condition.



Photo No.78 - N/E wing wall: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.79 - N/E wing wall: Typical example of the condition.



Photo No.80 - N/E wing wall: Typical example of the condition of the newel post.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.81 - N/W wing wall: View.



Photo No.82 - N/W wing wall: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.83 - N/W wing wall: Typical example of the condition.



Photo No.84 - N/W wing wall: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.85 - N/W wing wall: Typical example of the condition.



Photo No.86 - N/W wing wall: Typical example of the condition of the newel post.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL	OS ref: NU: 158 118		
Name: ALNWICK ROAD	Type: OVERBRIDGE		

Photographs of structure



Photo No.87 - S/E wing wall: View.



Photo No.88 - S/E wing wall: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.89 - S/E wing wall: Typical example of the condition.



Photo No.90 - S/E wing wall: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.91 - S/E wing wall: Typical example of the condition.



Photo No.92 - S/E wing wall: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.93 - S/E wing wall: Typical example of the condition of the newel post.



Photo No.94 - S/W wing wall: View

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.95 - S/W wing wall: Typical example of the condition.



Photo No.96 - S/W wing wall: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.97 - S/W wing wall: Typical example of the condition.



Photo No.98 - S/W wing wall: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.99 - S/W wing wall: Typical example of the condition of the newel post.



Photo No.100 - North roadside parapet: View.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.101 - North roadside parapet: View.



Photo No.102 - North roadside parapet: Displacement to the stonework at the N/W end.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.103 - North roadside parapet: Slight displacement to the stonework at the N/E end.



Photo No.104 - North roadside parapet: Fractured coping stone at 2.90m.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL	OS ref: NU: 158 118		
Name: ALNWICK ROAD	Type: OVERBRIDGE		

Photographs of structure



Photo No.105 - North roadside parapet: Fractured coping stones at 13.00m. & 13.60m.



Photo No.106 - North roadside parapet: Fractured coping stone at 15.00m.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.107 - North roadside parapet: Fractured coping stone at 15.90m.



Photo No.108 - North roadside parapet: Fractured coping stone at 20.40m.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.109 - North roadside parapet: Fractured coping stone at 20.40m & 20.80m.



Photo No.110 - North roadside parapet: Fractured coping stone at 23.80m.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.111 - North roadside parapet: Previous render repair.



Photo No.112 - North roadside parapet: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.113 - North roadside parapet: Typical example of the condition.



Photo No.114 - Typical example of the alignment & condition of the coping stones.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.115 - North roadside parapet: Typical example of the alignment & condition of the coping stones.



Photo No.116 - North outer parapet: View.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.117 - North outer parapet: Typical example of the condition of the N/W pilaster.



Photo No.118 - North outer parapet: Oversailing stonework at the N/W end.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.119 - North outer parapet: Typical example of the condition.



Photo No.120 - North outer parapet: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.121 - North outer parapet: Typical example of the condition.



Photo No.122 - North outer parapet: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.123 - North outer parapet: Typical example of the condition.



Photo No.124 - North outer parapet: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.125 - North outer parapet: Typical example of the condition of the N/E pilaster.



Photo No.126 - South roadside parapet: View.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.127 - South roadside parapet: View.



Photo No.128 - South roadside parapet: Previous vehicle impact damage to the S/W pilaster region rebuilt.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.129 - South roadside parapet: Displacement to the coping stones.



Photo No.130 - South roadside parapet: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.131 - South roadside parapet: Typical example of the condition.



Photo No.132 - South roadside parapet: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL	OS ref: NU: 158 118		
Name: ALNWICK ROAD	Type: OVERBRIDGE		

Photographs of structure



Photo No.133 - South roadside parapet: Typical example of the condition.



Photo No.134 - South roadside parapet: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.135 - South roadside parapet: Typical example of the alignment & condition of the coping stones.



Photo No.136 - South roadside parapet: Typical example of the alignment & condition of the coping stones.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.137 - South outer parapet: View.



Photo No.138 - South outer parapet: S/W pilaster region rebuilt.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.139 - South outer parapet: Typical example of the condition.



Photo No.140 - South outer parapet: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.141 - South outer parapet: Typical example of the condition.



Photo No.142 - South outer parapet: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.143 - South outer parapet: Typical example of the condition.



Photo No.144 - South outer parapet: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.145 - South outer parapet: Typical example of the condition of the S/E pilaster.



Photo No.146 - East springer course: View.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.147 - East springer course: Former S&T fixing void to the N/E end.



Photo No.148 - East springer course: Former S&T fixing void to the S/E end.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL	OS ref: NU: 158 118		
Name: ALNWICK ROAD	Type: OVERBRIDGE		

Photographs of structure



Photo No.149 - East springer course: Typical example of the condition.



Photo No.150 - West springer course: View.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.151 - West springer course: Typical example of the condition.



Photo No.152 - West springer course: Typical example of the condition at S/W return section.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.153 - String course: Erosion to stonework with loss of face above the S/W ¼ point of the spandrel.



Photo No.154 - String course: Erosion to stonework with loss of face above the S/E ¼ point of the spandrel.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.155 - String course: Fissure type fractured stonework.



Photo No.156 - String course: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.157 - String course: Typical example of the condition.



Photo No.158 - Area under the structure: Typical example.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.159 - Approach road fencing: Typical example of the condition at N/E end.



Photo No.160 - Approach road fencing: Typical example of the condition at N/W end.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.161 - Approach road fencing: Typical example of the condition at S/E end.



Photo No.162 - Approach road fencing: Typical example of the condition at S/W end.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.163 - Road surface: Typical example of the condition.



Photo No.164 - Footpath surface: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.165 - Non - Dedication plate: Typical example of the condition.



Photo No.166 - Non - Dedication plate: Typical example of the condition.

ELR: AKC	Structure No: 95	Mileage: 0m 000ch	Examination date: 28/11/2018
Route: ALNWICK - CORNHILL			OS ref: NU: 158 118
Name: ALNWICK ROAD			Type: OVERBRIDGE

Photographs of structure



Photo No.167 - Structure I.D.



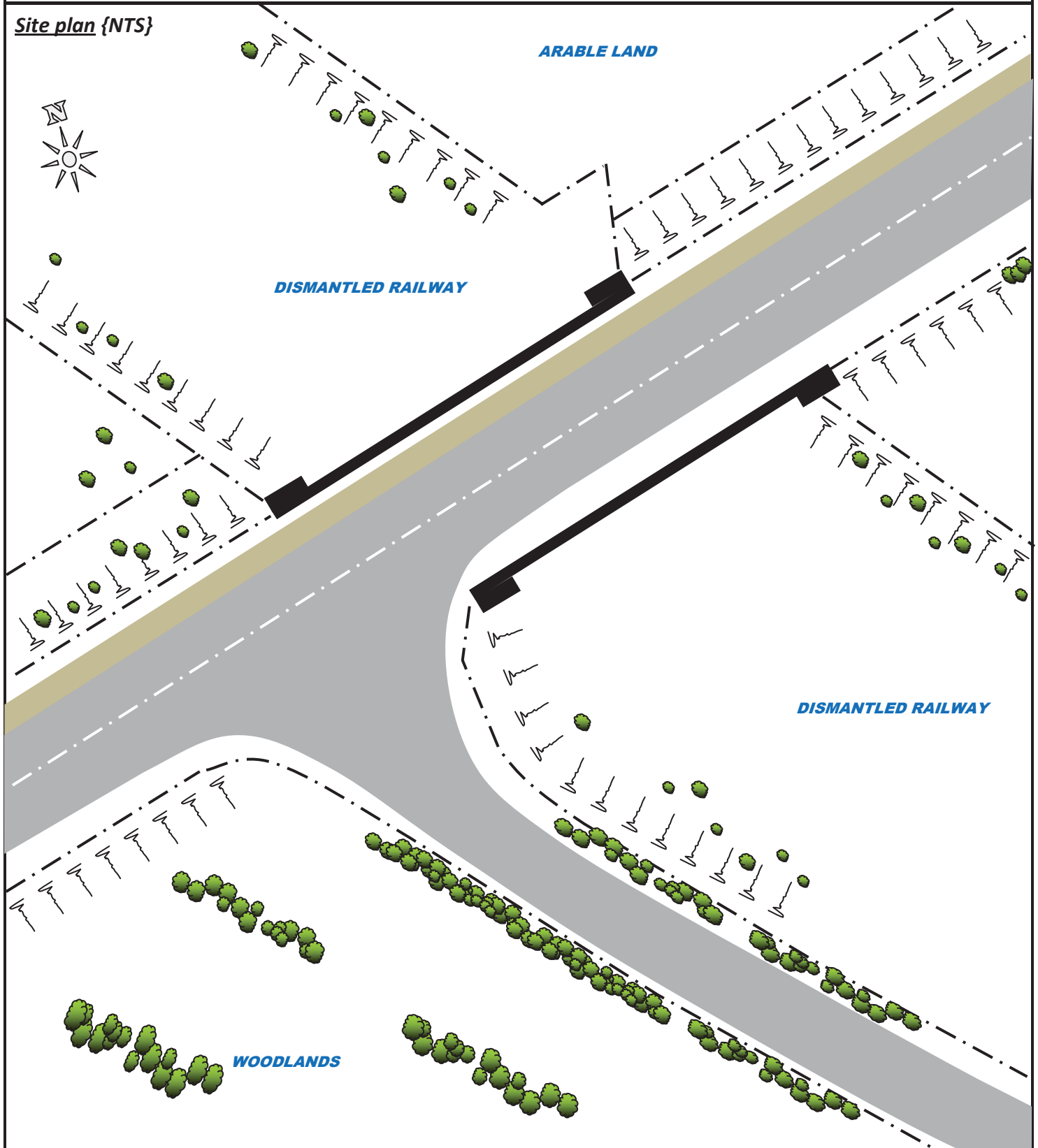
Photo No.168 - Structure I.D.

Highways Agency Historical Railways Estate
Structures Examinations Parapet Risk Assessment Report

ELR:	AKC	Structure No:	95	Mileage:	000.0000	Examination date:	28/12/2018
Route:	ALNWICK - CORNHILL				OS Ref:	NU: 158 118	
Name:	ALNWICK ROAD				Type:	OVERBRIDGE	

Parapet Inspection for Assessment: Parapet To Parapet: 9.70m. North Footpath: 2.50m. South Verge: 1.90m.

Site plan {NTS}



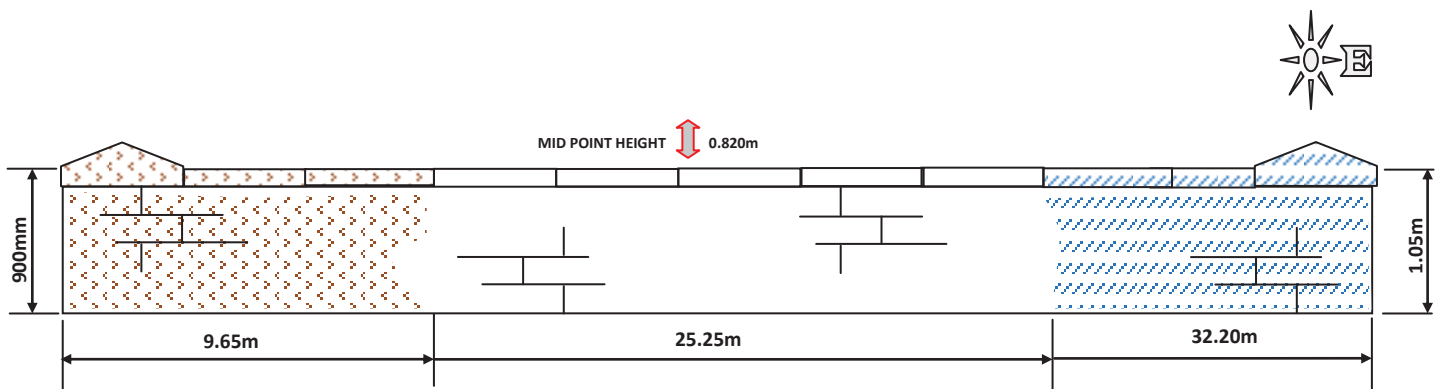
Highways Agency Historical Railways Estate
Structures Examinations Parapet Risk Assessment Report

ELR:	AKC	Structure No:	95	Mileage:	000.0000	Examination date:	28/12/2018
Route:	ALNWICK - CORNHILL					OS Ref:	NU: 158 118
Name:	ALNWICK ROAD					Type:	OVERBRIDGE

Parapet Assessment (Continued)

North parapet elevation sketch {NTS}

- ❖ **0.00m - 9.65m** - Displacement to the stonework leaning out of alignment westwards up to 50mm at worst. {Prolonged defect}
- ❖ **25.25m - 32.20m** - Slight displacement to stonework leaning out of alignment northwards up to 8mm at worst. {Prolonged defect}
- ❖ **2.90m, 13.00m, 13.60m, 15.00m, 15.90m, 20.40m, 20.80m, & 23.80m** - Coping stones fractured to full depth & width open H/L to 3mm at worst, some have been pointed in the past.
- ❖ Some render repairs have been carried out in places showing slight deterioration in various locations.
- ❖ Slight to moderate laminated erosion to the stonework in places with some loss of face in various locations.
- ❖ Fissure type fractured stonework up to 1mm at worst in isolated places.
- ❖ Discolouration, water staining with lichen growth to the stonework in various places.



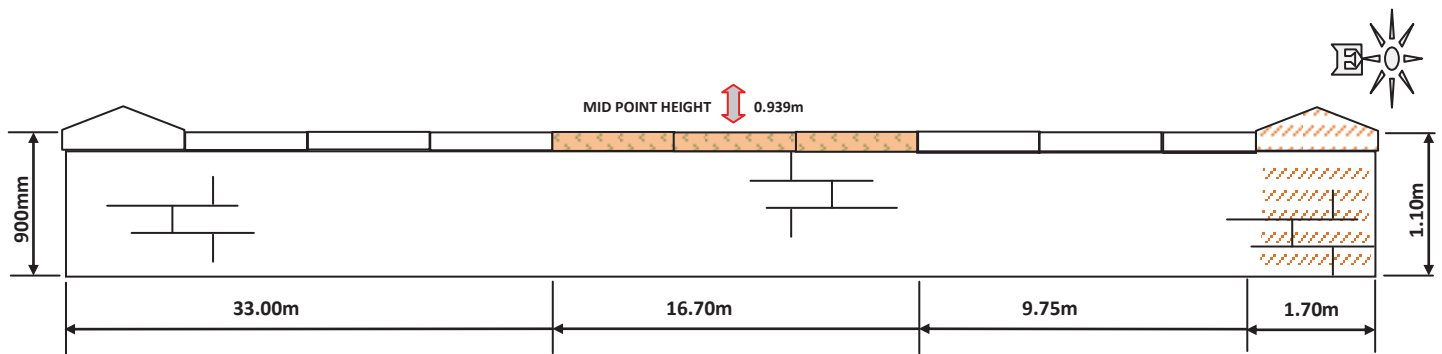
Highways Agency Historical Railways Estate
Structures Examinations Parapet Risk Assessment Report

ELR:	AKC	Structure No:	95	Mileage:	000.0000	Examination date:	28/12/2018
Route:	ALNWICK - CORNHILL				OS Ref:	NU: 158 118	
Name:	ALNWICK ROAD				Type:	OVERBRIDGE	

Parapet Assessment (Continued)

South parapet elevation sketch {NTS}

- ❖ **0.00m - 1.70m** - Previous vehicle impact damage to the stonework as the S/W pilaster region has been reconstructed at some time.
- ❖ **9.75m - 16.70m** - Displacement to the coping stones out of alignment, southwards up to 15mm at worst. *{Prolonged defect}*
- ❖ Previous pointing repairs have been carried out in the past in widespread places.
- ❖ Slight to moderate erosion to the stonework in places with some loss of face in various locations.
- ❖ Fissure type fractured stonework to the coping stones up to 2mm at worst in isolated places.
- ❖ Discolouration, water staining to the stonework in various places also some lichen growth in various locations.



Examiner Input for Parapet Risk Assessment

HRE Ref

AKC/95

Assessor

Rev 7 (26/10/2016)

Date

28/11/2018

Based on Dft document "Guidance on the Design, Assessment and Strength of masonry Parapets on Highway Structure" 2012
 Examiner input required as follows:

User of track bed and under span

Examiner to state: Eg occasional footpath, cycleway, agriculture vehicles, private vehicles, etc.

Footpath

Environment Factor

Table G1 Environmental Factors (based on IAN97/07)

Factor	Score (derived from IAN97/07)
Road Alignment (Horizontal)	Score 1 for straight road with at least 7.3m carriageway Score 3 for straight less than 7.3m carriageway or curved at least 7.3m carriageway Score 7 for curved road less than 7.3m carriageway Score 10 for reverse curves less than 7.3m carriageway
Road Alignment (Vertical)	Score 1 for level or constant grade Score 2 for gentle gradients and/or slight hump back Score 3 for moderate gradients and/or hump back with inter-visibility Score 5 for steep gradients and/or hump back with no inter-visibility
Speed of traffic	Score 1 for <10mph Score 3 for <30mph (or less) Score 5 for <50mph Score 7 for <70mph
Road Verges and Footpaths	Score 1 for at least 2m on both sides Score 2 for at least 1m on both sides Score 3 for one or both verges less than 1m
Other hazards increasing likelihood of RTA.	Score 1 for no obvious additional hazards, including no significant risk of freezing Score 5 for single site specific hazard including risk of freezing conditions. Score 9 for multiple minor hazards or single major hazard. e.g.: farm access, road junction, private driveway, lay-by, nearby junctions, bus stop, school, hospital, additional visibility limits (consider overhanging trees), etc

Examiner Score

1

2

7

2

9

Total

21

Annual Average Daily Traffic (Average Two-Way Daily Traffic Flow)

Table G2: Derivation of "Score" equivalent for AADT.

AADT Score	AADT	Typical description
1	<50	Minor single lane (generally green lane or farm access)
2	50 – 100	Minor two lane (generally unclassified)
3	101 – 500	Local access (generally C or B class)
4	501 – 1,500	Collector (no buses) (generally 'Other Strategic' roads)
5	1,501 – 5,000	Collector (with buses or industrial)
4	501 – 1,500	
5	1,501 – 5,000	
6	5,001 – 20,000	(generally 'Primary Routes') Usually, roads of sufficient size will either have a known AADT or can be "deduced" by comparison to a nearby road that does.
7	20,001 – 40,000	
8	40,001 – 60,000	

**AADT Score for
Traffic on Bridge** 4

**AADT Score for
Traffic below Bridge** 1

**Traffic Speed below
Bridge (mph)** 10

Whilst not specifically designed for use for Traffic other than on vehicles on Public Highway, please select AADT scores for traffic below bridge based on approximate number of single directional passages per unit, i.e. car, pedestrian, boat, bicycle etc.

Parapet Properties

Parapet Height from Verge, H	0.820	m
Parapet height from track bed, h	0.820	m
Height of Outside Edge of Coping above trafficked surface below	7.140	m
Parapet thickness	340	mm
Average mortar loss throughout	0	mm
Parapet Material	Limestone	
Assumed mortar bond strength.	High	

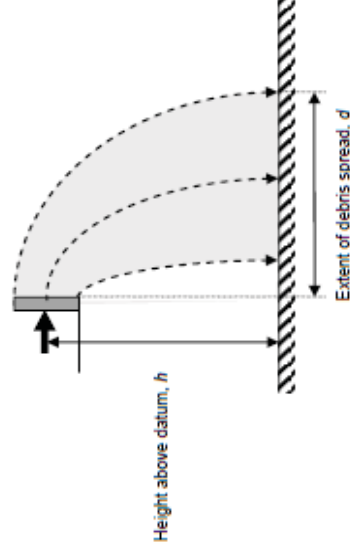


Figure 5 Extent of debris spread: definition

Risk Assessment of Unreinforced Masonry Parapets in Accordance with Method as outlined in Section 6 of "Guidance on the Design, Assessment and Strengthening of Masonry Parapets on Highway Structures" 2012 as issued by the Department of Transport.

Rev 7 (26/10/2016)

Likelihood:- HRE Ref: **AKC/95** Assessor: **[Redacted]**

Calculate the return Period of an accident occurring.

$$T_0 = K(35-EF)/(AADT \text{ score})$$

K is a constant. 5 for cars, 20 for LGV's (Large Goods Vehicles)

EF= Environment Factor from Table G1

Table G1 Environmental Factors (based on IAN97/07)

Factor	Score (derived from IAN97/07)
Road Alignment (Horizontal)	Score 1 for straight road with at least 7.3m carriageway Score 3 for straight less than 7.3m carriageway or curved at least 7.3m carriageway Score 7 for curved road less than 7.3m carriageway Score 10 for reverse curves less than 7.3m carriageway
Road Alignment (Vertical)	Score 1 for level or constant grade Score 2 for gentle gradients and/or slight hump back Score 3 for moderate gradients and/or hump back with inter-visibility Score 5 for steep gradients and/or hump back with no inter-visibility
Speed of traffic	Score 1 for <10mph Score 3 for <30mph (or less) Score 5 for <50mph Score 7 for <70mph
Road Verges and Footpaths	Score 1 for at least 2m on both sides Score 2 for at least 1m on both sides Score 3 for one or both verges less than 1m
Other hazards increasing likelihood of RTA.	Score 1 for no obvious additional hazards, including no significant risk of freezing Score 5 for single site specific hazard including risk of freezing conditions. Score 9 for multiple minor hazards or single major hazard. e.g.: farm access, road junction, private driveway, lay-by, nearby junctions, bus stop, school, hospital, additional visibility limits (consider overhanging trees), etc

Determined/calculated output

1
2
7
2
9
21

Total Environment Factor (EF) =

AADT = Annual Average Traffic Flow

Table G2: Derivation of "Score" equivalent for AADT.

AADT Score	AADT	Typical description
1	<50	Minor single lane (generally green lane or farm access)
2	50 – 100	Minor two lane (generally unclassified)
3	101 – 500	Local access (generally C or B class)
4	501 – 1,500	Collector (no buses)
5	1,501 – 5,000	Collector (with buses or industrial)
4	501 – 1,500	(generally 'Other Strategic' roads)
5	1,501 – 5,000	
6	5,001 – 20,000	
7	20,001 – 40,000	
8	40,001 – 60,000	

AADT Score = 4
AADT score for LGV's only = 3

Return Periods:-

CARS $T_0 = 5x(35-EF)/AADTscore = 17.5$

LGV's $T_0 = 20x(35-EF)/AADTscore = 93.3333$

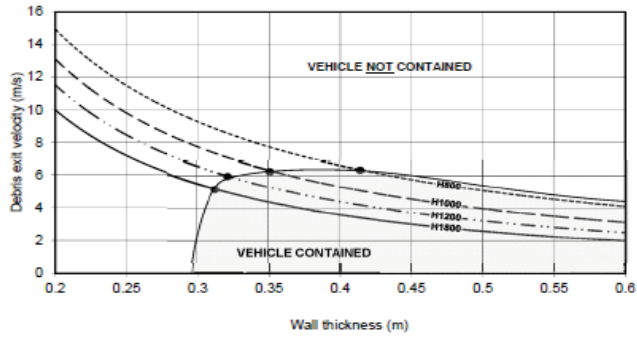
Consequence:-

Determine the containment status of the parapet and debris exit velocity.

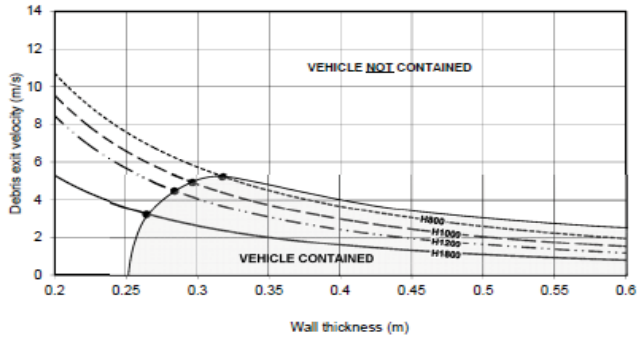
Input Data:-

Parapet height from verge (m) = 0.82
Parapet thickness (m) = 0.34
Road Speed (kph) = 112.63
Assumed parapet density (kg/m3) = 2200
Assumed mortar bond strength, High or Low = High

Use the appropriate graph below:-

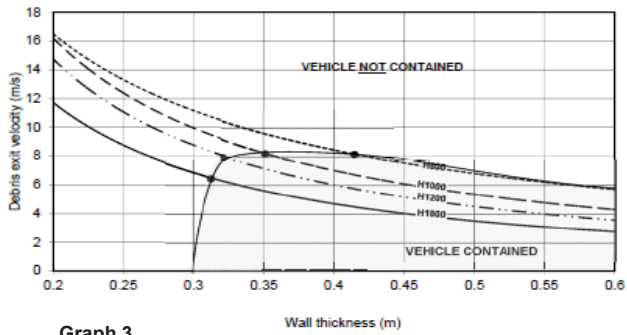


Graph 1 (a) Low unit-mortar bond strength

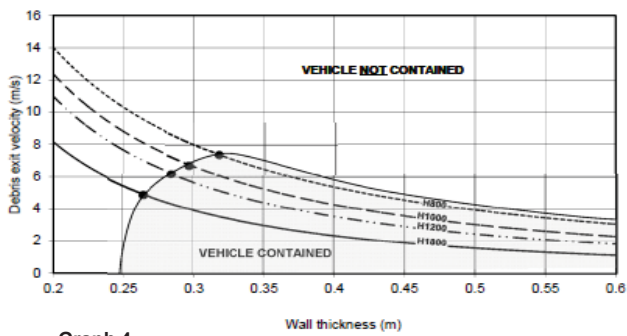


Graph 2 (b) High unit-mortar bond strength

Figure 2 Parapet performance chart: N1 (80km/h) containment for mortared parapets of various height,



Graph 3 (a) Low unit-mortar bond strength



Graph 4 (b) High unit-mortar bond strength

Figure 3 Parapet performance chart: N2 (110km/h) containment for mortared parapets of various height, H (mm) (density: 2200kg/m³)

Vehicle contained? Y or N **Y** Debris exit velocity (m/s) = **7.06**
 from **Graph 4**

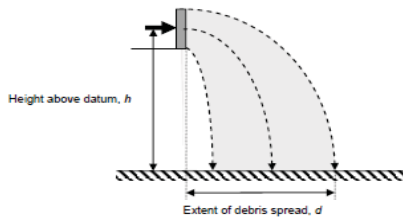
Number of vehicles affected: $N_{total} = N_{errant} + N_{direct} + N_{indirect}$

$N_{errant} = 1$ if vehicle is not contained, or deemed 1 for any LGV

$N_{errant} = 0$ if vehicle is contained

N_{errant} Cars = **0** N_{errant} LGV = **1**

N_{direct} = the vehicles or users affected by debris ejection below the bridge, and depends on debris spread and spacing,
Determine debris spread:



Height to parapet above datum h (m) = 6.73

Figure 5 Extent of debris spread: definition

Table 8: Extent of debris spread: values of d

Mean debris exit velocity (m/s) (from Figure 2 or 3)	Height above datum h (to mid-height of parapet)				
	2m	4m	6m	8m	10m
1	1	2	2	3	3
2	3	4	4	5	6
3	4	5	7	8	9
4	5	7	9	10	11
5	6	9	11	13	14
6	8	11	13	15	17
7	9	13	15	18	20
8	10	14	18	20	23
9	11	16	20	23	26
10	13	18	22	26	29
11	14	20	24	28	31
12	15	22	27	31	34

Debris spread (m) = 16.54

Spacing = (Road speed in kph/(AADT/24)) where AADT = 1

and road speed (kph) = 5

N_{direct} = Debris Spread/Spacing = 0.13781

$N_{indirect}$:

Table G4 Number of vulnerable vehicles indirectly affected per impact event

Road Speed	mph	40	50	60	70
	km/h	64	80	97	113
Thinking distance		12	15	18	21
Stopping distance		24	38	55	75
Slowing distance (to safer speed, 34mph)		20.4	25.8	31.2	36.4
Total slowing distance to safer speed		32.8	40.8	49.2	57.4

Total slowing distance to safer speed for Cars (m) = 0

$N_{indirect}$ = Total slowing distance to safer speed/spacing for Cars = 0

N_{total} = N_{errant} + N_{direct} + $N_{indirect}$ for Cars = 0.138

N_{total} for LGV = 1.138

FAR Calculation: $FAR = 100,000,000 / [(365 \times 24 \times T_0) / N_{total}]$

Table 6: Fatal Accident Rate (FAR) for common activities

Activity	FAR
Travel by bus	1
Travel by car or by air	15
Walking beside a road	20
Travel by motorcycle	300
Travel by helicopter	500

Cars:- FAR = 89.9
LGV:- FAR = 139.2
Total FAR = 229

Recommendation from Assessment:

FAR < 300 - Parapet deemed Structurally Adequate
Vehicle Contained

Highways Agency - Historical Railways Estate

Structure Reference

AKC/ 95

Scoring matrix (HA use only)

Public Risk

Severity

No significant risk

0

Likelihood

Low

1

Based On

Listed?

Yes

No

0

Maintenance Req'd?

No structural implications

0

Based On

Future Plans

No plans or proposals

0

Public Access

Subtotal

0

Vandalism

Unlikely problem site

1

Flytipping

No evidence

1

Right of Way

Little used access

2

Fencing

None

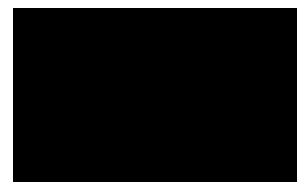
4

Action/Notes

Total

8

No action required.



Signature


Highways Agency Historical Railways Estate Visual Examination Report



ELR: AKC

ROUTE: ALNWICK - CORNHILL

Sheet 1 of 5

Identification of Structure	Examination Date:	Defects requiring action before the next exam. and/or significant deterioration since the last examination (write "None." where applicable)
OVERBRIDGE Structure No: OB 95 Mileage: 000.0000 O. S. Ref: NU: 158 118	12/02/2014	Risk Assessment – The examination was carried out in accordance with the risk assessments in Appendix L of the Generic Method Statement for the Examination of Structures. Access Route to Structure – B6341, park at N/W, walk back 100.00m, descend embankment at N/W parapet end.
I certify that I have carried out a Visual Examination of this structure, which appears to be in a satisfactory condition except where recorded in this report. Examined by: 	No. of Spans: 1	Site Issues and Impediments to carrying out repairs, DE's or other works – Public access routes to the top & to the underneath, fast/busy road, telecoms to north footpath, area under structure prone to flooding, evidence of previous vehicular impact damage to parapet stonework, livestock within the vicinity of the structure, vegetation maybe an impediment at future examinations. Date of Last Examination – 15/02/2013. Structure Examined within 12 months? – Yes. Reason for Exceeding 12 months interval – N/A.

GENERAL VIEW



Visual Examination Report
(Continuation Sheet)

Line: ALNWICK - CORNHILL

Structure Identifier: AKC/95

Sheet 2 of 5

Recommendations (By The Examining Engineer)

Repair approach fencing. £1K - P1

[Redacted signature and stamp area]

Visual Examination Report
(Continuation Sheet)

Line: ALNWICK - CORNHILL	Structure Identifier: AKC/95 OB: 95 - Brick arch, stone voussoirs, stone spandrels, abutments, wing walls, parapets & pilasters. NU: 158 118.
------------------------------------	--

Remarks (Refer to parts by name)

Sheet 3 of 5

- ❖ Severe defects - None.
- ❖ New defects - N/A.
- ❖ Changes to existing defects since last examination - N/A.
- ❖ Changes to the use of the structure since last examination - N/A.
- ❖ Repair/Maintenance work that appears to have been carried out since last examination - N/A.
- ❖ Use of structure - Public access routes to the top & to the underneath, located in a rural area, open access to the underneath, livestock within the vicinity of the structure.
- ❖ Condition of approach fencing/walling and risk to the public - Overall condition of the approach road fencing is fair, sections in disrepair/missing. {Uncertain of demarcation} P1.
- ❖ Condition of weight restriction signs - N/A.
- ❖ Condition of height restriction signs - N/A.
- ❖ Condition of Non - Dedication plates - N/A.
- ❖ New mortar tabs, avongards, plumbing points, pins, etc. Fitted during this examination - None installed.

**EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC Str. No: OB 95

Mileage: 00 m 00 ch Sheet 4 of 5



Orientation of structure: Highlighted in red.



Photo No.1: Approach road fencing: Typical example of the condition at N/E end.

**EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC Str. No: OB 95

Mileage: 00 m 00 ch Sheet 5 of 5



Photo No.2: North roadside parapet: Evidence of previous vehicular impact damage to the stonework.



Photo No.3: View: Across Structure.

Highways Agency - Historical Railways Estate

Structure Reference

AKC/95

Scoring matrix (HA use only)

Public Risk

Severity

No significant risk

0

Likelihood

Low

1

Based On

Listed?

Yes

No

0

Maintenance Req'd?

No structural implications

0

Based On

Future Plans

No plans or proposals

0

Public Access

Subtotal

0

Vandalism

Unlikely problem site

1

Flytipping

No evidence

1

Right of Way

No sign of use

1

Fencing

None

4

Action/Notes

Total

4

No action required.

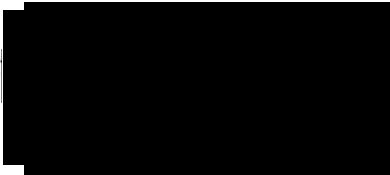
Highways Agency Historical Railways Estate Visual Examination Report



ELR: AKC

ROUTE: ALNWICK - CORNHILL

Sheet 1 of 6

Identification of Structure	Examination Date:	Defects requiring action before the next exam. and/or significant deterioration since the last examination (write "None." where applicable)
OVERBRIDGE Structure No: OB 95 Mileage: 000.0000 O. S. Ref: NU: 158 118	19/01/2015	Risk Assessment – The examination was carried out in accordance with the risk assessments in Appendix L of the Generic Method Statement for the Examination of Structures. Access Route to Structure – B6341, park at N/W, walk back 100.00m, descend embankment at N/W parapet end.
I certify that I have carried out a Visual Examination of this structure, which appears to be in a satisfactory condition except where recorded in this report. Examined by: 		Site Issues and Impediments to carrying out repairs, DE's or other works – Public access routes to the top open access to the underneath, fast/busy road, telecoms to north footpath, area under structure prone to flooding, evidence of previous vehicular impact damage to parapet stonework, livestock within the vicinity of the structure, vegetation maybe an impediment at future examinations. Date of Last Examination – 12/02/2014. Structure Examined within 12 months? – Yes. Reason for Exceeding 12 months interval – N/A.

GENERAL VIEW



**Visual Examination Report
(Continuation Sheet)**

Line: **ALNWICK - CORNHILL**

Structure Identifier: **AKC/95**

Sheet 2 of 6

Recommendations (By The Examining Engineer)

Repair approach fencing. £1K - P1

[Redacted signature and stamp area]

**Visual Examination Report
(Continuation Sheet)**

Line: ALNWICK - CORNHILL	Structure Identifier: AKC/95 OB: 95 - Brick arch, stone voussoirs, stone spandrels, abutments, wing walls, parapets & pilasters. NU: 158 118.
--	--

Remarks (Refer to parts by name)

Sheet 3 of 6

- ❖ **Severe defects - None.**
- ❖ **New defects - N/A.**
- ❖ **Changes to existing defects since last examination - Possible further deterioration to the eroded stonework areas. P1.**
- ❖ **Changes to the use of the structure since last examination - N/A.**
- ❖ **Repair/Maintenance work that appears to have been carried out since last examination - N/A.**
- ❖ **Use of structure - Public access routes to the top, open access to the underneath, located in a rural area, livestock within the vicinity of the structure, area under the structure prone to flooding. P2.**
- ❖ **Condition of approach fencing/walling and risk to the public - Overall condition of the approach road fencing is fair, sections in disrepair/missing. {Uncertain of demarcation} P3.**
- ❖ **Security fencing - Overall condition of the security fencing under the structure is poor, open access.**
- ❖ **Condition of weight restriction signs - N/A.**
- ❖ **Condition of height restriction signs - N/A.**
- ❖ **Condition of Non - Dedication plates - N/A.**
- ❖ **New mortar tabs, avongards, plumbing points, pins, etc. Fitted during this examination - None installed.**

**EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC Str. No: OB 95

Mileage: 00 m 00 ch Sheet 4 of 6



Orientation of structure: Highlighted in red.



Photo No.1: Possible further deterioration: To the eroded stonework areas.

**EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC Str. No: OB 95

Mileage: 00 m 00 ch Sheet 5 of 6



Photo No.2: Area under the structure: Typical example of the condition.



Photo No.3: Approach road fencing: Typical example of the condition at N/E end.

**EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC Str. No: OB 95

Mileage: 00 m 00 ch Sheet 6 of 6



Photo No.4: Vegetation: Typical example.



Photo No.5: View: Across Structure.

Highways Agency - Historical Railways Estate

Structure Reference

AKC/95

Scoring matrix (HA use only)

Public Risk

Severity

No significant risk

0

Likelihood

Low

1

Based On

Listed?

Yes

No

0

Maintenance Req'd?

No structural implications

0

Based On

Future Plans

No plans or proposals

0

Public Access

Subtotal

0

Vandalism

Unlikely problem site

1

Flytipping

No evidence

1

Right of Way

Little used access

2

Fencing

None

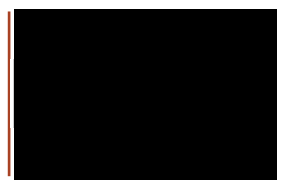
4

Action/Notes

Total

8

No action required.



Signature

**Highways Agency Historical Railways Estate
Visual Examination Report**



ELR: AKC

ROUTE: ALNWICK - CORNHILL

Sheet 1 of 8

Identification of Structure	Examination Date:	Defects requiring action before the next exam. and/or significant deterioration since the last examination (write "None." where applicable)
OVERBRIDGE Structure No: OB 95 Mileage: 000.0000 O. S. Ref: NU: 158 118	19/01/2016	Risk Assessment – The examination was carried out in accordance with the risk assessments in Appendix L of the Generic Method Statement for the Examination of Structures. Access Route to Structure – B6341, park at N/W, walk back 100.00m, descend embankment at N/W parapet end.
I certify that I have carried out a Visual Examination of this structure, which appears to be in a satisfactory condition except where recorded in this report. Examined by: <div style="background-color: black; width: 100px; height: 20px; margin: 5px 0;"></div> <div style="background-color: black; width: 100px; height: 20px; margin: 5px 0;"></div>	No. of Spans: 1	Site Issues and Impediments to carrying out repairs, DE's or other works – Public access routes to the top open access to the underneath, fast/busy road, telecoms to north footpath, area under structure prone to flooding, evidence of previous vehicular impact damage to parapet stonework, livestock within the vicinity of the structure, vegetation maybe an impediment at future examinations. Date of Last Examination – 19/01/2015. Structure Examined within 12 months? – Yes. Reason for Exceeding 12 months interval – N/A.

GENERAL VIEW



Visual Examination Report
(Continuation Sheet)

Line: ALNWICK - CORNHILL

Structure Identifier: AKC/95

Sheet 2 of 8

Recommendations (By The Examining Engineer)

Repair approach fencing. £1K - P1



Visual Examination Report
(Continuation Sheet)

Line: ALNWICK - CORNHILL	Structure Identifier: AKC/95 OB: 95 - Brick arch, stone voussoirs, stone spandrels, abutments, wing walls, parapets & pilasters. NU: 158 118.
---------------------------------	--

Remarks (Refer to parts by name)

Sheet 3 of 8

- ❖ Severe defects - None.
- ❖ New defects - N/A.
- ❖ Changes to existing defects since last examination - Possible further deterioration to the eroded stonework areas also the appearance of the road surface appears to be worse in places across the structure. P1 to P2.
- ❖ Changes to the use of the structure since last examination - N/A.
- ❖ Repair/Maintenance work that appears to have been carried out since last examination - N/A.
- ❖ Use of structure - Public access routes to the top, open access to the underneath, located in a rural area, livestock within the vicinity of the structure, area under the structure prone to flooding.
- ❖ Condition of approach fencing/walling and risk to the public - Overall condition of the approach road fencing is fair, sections in disrepair/missing. {Uncertain of demarcation} P3.
- ❖ Security fencing - Overall condition of the security fencing under the structure is poor, open access. P4.
- ❖ Condition of weight restriction signs - N/A.
- ❖ Condition of height restriction signs - N/A.
- ❖ Condition of Non - Dedication plates - N/A.
- ❖ New mortar tabs, avongards, plumbing points, pins, etc. Fitted during this examination - None installed.

**EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC Str. No: OB 95

Mileage: 00 m 00 ch Sheet 4 of 8



Orientation of structure: Highlighted in red.



Photo No.1: Possible further deterioration: To the eroded stonework areas.

**EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC Str. No: OB 95

Mileage: 00 m 00 ch Sheet 5 of 8



Photo No.2: Road surface: Typical example of the condition.



Photo No.3: Approach road fencing: Typical example of the condition at N/E end.

**EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC Str. No: OB 95

Mileage: 00 m 00 ch Sheet 6 of 8



Photo No.4: Area under the structure: Typical example.



Photo No.5: BRB lettering: Erased.

**EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC Str. No: OB 95

Mileage: 00 m 00 ch Sheet 7 of 8



Photo No.6: BRB lettering: Erased.



Photo No.7: Parapets: Evidence of previous vehicular impact damage to the stonework.

**EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC Str. No: OB 95

Mileage: 00 m 00 ch Sheet 8 of 8



Photo No.8: Vegetation: Typical example.



Photo No.9: View: Across Structure.

Historical Railways Estate

Structure Reference

Public Risk

Severity

Likelihood

Based On

Listed? Yes No

Maintenance Req'd?

Based On

Future Plans

Public Access Subtotal

Vandalism

Flytipping

Right of Way

Fencing

Action/Notes Total

Non-dedication plates have been installed.
No action required.



Signature

Historical Railways Estate Visual Examination Report



ELR: AKC

ROUTE: ALNWICK - CORNHILL

Sheet 1 of 8

Identification of Structure	Examination Date	Preliminaries
<p>OVERBRIDGE</p> <p>Structure No: OB 95</p> <p>Mileage: 000.0000</p> <p>O. S. Ref: NU: 158 118</p>	<p>23/01/2017</p> <hr/> <p>No. of Spans</p> <p>1</p>	<p>Risk Assessment – The examination was carried out in accordance with the risk assessments in Appendix L of the Generic Method Statement for the Examination of Structures.</p> <p>Access Route to Structure – B6341, park at N/W, walk back 100.00m, descend embankment at N/W parapet end.</p> <p>Site Issues and Impediments to carrying out repairs, DE's or other works – Public access routes to the top, open access to the underneath, fast/busy road, telecoms to the north footpath, area under the structure liable to flooding in inclement weather, evidence of previous vehicular impact damage to parapet stonework, livestock within the vicinity of the structure, vegetation maybe an impediment at future examinations, traffic management would be required for any roadside parapet work.</p> <p>Date of Last Examination – 19/01/2016.</p> <p>Structure Examined within 12 months? – No.</p> <p>Reason for Exceeding 12 months interval – Committed to other duties.</p>
<p>I certify that I have carried out a Visual Examination of this structure, which appears to be in a satisfactory condition except where recorded in this report.</p> <p>Examined by:</p> <div style="display: flex; gap: 20px;"> <div style="background-color: black; width: 100px; height: 30px;"></div> <div style="background-color: black; width: 100px; height: 30px;"></div> </div>		

GENERAL VIEW



**Historical Railways Estate
Visual Examination Report
(Continuation Sheet)**



Line: **ALNWICK - CORNHILL**

Sheet 3 of 8

Recommendations (By the Examining Engineer)

**Examination
Elements of:**

Repair approach fencing. £1.5K - P1

AKC/95 - 0m 00ch

Examination Date

23/01/2017

Examination Type

VISUAL

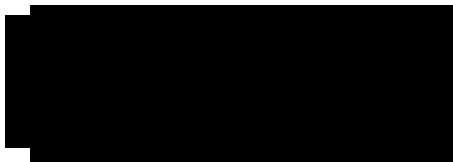
Sundries

Date Tabs Fitted
(T/No)

Fitting & setting
combination locks
(C/No)

Non-Dedication
Plates Fitted (N/No)

Signed:



**Historical Railways Estate
Visual Examination Report
(Continuation Sheet)**



Line: ALNWICK - CORNHILL	Structure Identifier: AKC/95 OB: 95 - Brick arch, stone voussoirs, stone spandrels, abutments, wing walls, parapets & pilasters. NU: 158 118.
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Remarks (Refer to parts by name) **Sheet 4 of 8**

General Comments - Overall condition of the structure is fair.

Severe Defects - None.

New Defects - Possible vehicle impact damage to the S/W approach road fencing, sections missing. P1.

Changes to Existing Defects since Last Examination - Possible further deterioration to the eroded stonework areas also the appearance of the road surface appears to be worse in places across the structure. P2 to P3.

Changes to the Use of the Structure and/or the Surrounding Area since Last Examination - N/A.

Evidence of Repair/Maintenance/Investigation Work that appears to have been carried out since Last Examination - 2No: Non-Dedication plates installed to the substructure. P4 to P5.

Use of Solum/Track Bed - Open access to the underneath.

Condition of Approach Fencing/Walling and Risk to the Public - Overall condition of the approach road fencing is fair, sections in disrepair with sections missing. *{Uncertain of demarcation}* P6.

Existence and Condition of Weight Restriction Signs including Advanced Signs - N/A.

Existence and Condition of Height Restriction Signs including Advanced Signs - N/A.

New Mortar Tabs, Avongards, Plumbing Points, Pins, etc. Fitted during this Examination - None installed.

New Padlock(s) Fitted to Access Gates/Doors during this Examination - None installed.

Historical Railways Estate
EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE

ELR: AKC

Str. No: OB 95

Mileage:

0m 00ch

Sheet 5 of 8



Orientation of structure - Highlighted in red.



Photo No.1: S/W Approach road fencing: Possible vehicle impact damage.

**Historical Railways Estate
EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC

Str. No: OB 95

Mileage:

0m 00ch

Sheet 5 of 8



Photo No.2: Possible further deterioration: To the eroded stonework areas.



Photo No.3: Road surface: Typical example of the condition.

**Historical Railways Estate
EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC

Str. No: OB 95

Mileage:

0m 00ch

Sheet 6 of 8



Photo No.4: Non - Dedication plate: Installed to the substructure.



Photo No.5: Non - Dedication plate: Installed to the substructure.

**Historical Railways Estate
EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC

Str. No: OB 95

Mileage:

0m 00ch

Sheet 7 of 8



Photo No.6: Approach road fencing: Typical example of the condition at N/E end.



Photo No.7: Vegetation: Typical example.

**Historical Railways Estate
EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC

Str. No: OB 95

Mileage:

0m 00ch

Sheet 8 of 8



Photo No.8: Area under the structure: Typical example.



Photo No.9: View: Across Structure.

Historical Railways Estate

Structure Reference

Public Risk

Severity

Likelihood

Based On

Listed? Yes No

Maintenance Req'd?

Based On

Future Plans

Public Access Subtotal

Vandalism

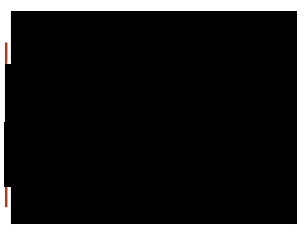
Flytipping

Right of Way

Fencing

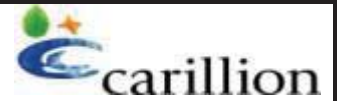
Action/Notes Total

Non-dedication plates have been fitted.
No action required.



Signature

Historical Railways Estate Visual Examination Report



ELR: AKC

ROUTE: ALNWICK - CORNHILL

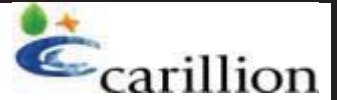
Sheet 1 of 6

Identification of Structure	Examination Date	Preliminaries
OVERBRIDGE Structure No: OB 95 Mileage: 000.0000 O. S. Ref: NU: 158 118	17/01/2018 No. of Spans 1	<p>Risk Assessment – The examination was carried out in accordance with the risk assessments in Appendix L of the Generic Method Statement for the Examination of Structures.</p> <p>Access Route to Structure – B6341, park at N/W, walk back 100.00m, descend embankment at N/W parapet end.</p> <p>Site Issues and Impediments to carrying out repairs, DE's or other works – Public access routes to the top, open access to the underneath, fast/busy road, telecoms to the north footpath, area under the structure liable to flooding in inclement weather, evidence of previous vehicular impact damage to the parapet stonework, livestock within the vicinity of the structure, vegetation maybe an impediment at future examinations, traffic management would be required for any roadside parapet work.</p> <p>Date of Last Examination – 23/01/2017. Structure Examined within 12 months? – Yes. Reason for Exceeding 12 months interval – N/A.</p>
<p>I certify that I have carried out a Visual Examination of this structure, which appears to be in a satisfactory condition except where recorded in this report.</p> <p>Examined by: </p>		

GENERAL VIEW



**Historical Railways Estate
Visual Examination Report
(Continuation Sheet)**



Line: ALNWICK - CORNHILL

Sheet 2 of 6

Recommendations (By the Examining Engineer)

**Examination
Elements of:**

Repair approach fencing. £1.5K - P1

AKC/95 - 0m 00ch

Examination Date

17/01/2018

Examination Type

VISUAL

Sundries

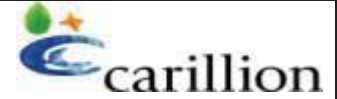
Date Tabs Fitted
(T/No)

Fitting & setting
combination locks
(C/No)

Non-Dedication
Plates Fitted (N/No)

[Redacted signature area]

**Historical Railways Estate
Visual Examination Report
(Continuation Sheet)**



Line: ALNWICK - CORNHILL	Structure Identifier: AKC/95 OB: 95 - Brick arch, stone voussoirs, stone spandrels, abutments, wing walls, parapets & pilasters. NU: 158 118.
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Remarks (Refer to parts by name)

Sheet 3 of 6

General Comments - Overall condition of the structure is fair.

Severe Defects - None.

New Defects - N/A.

Changes to Existing Defects since Last Examination - Possible further deterioration to the eroded stonework areas. P1.

Changes to the Use of the Structure and/or the Surrounding Area since Last Examination - N/A.

Evidence of Repair/Maintenance/Investigation Work that appears to have been carried out since Last Examination - N/A.

Use of Solum/Track Bed - Open access to the underneath.

Condition of Approach Fencing/Walling and Risk to the Public - Overall condition of the approach road fencing is poor, sections in disrepair with sections missing. *{Uncertain of demarcation}* P2.

Existence and Condition of Weight Restriction Signs including Advanced Signs - N/A.

Existence and Condition of Height Restriction Signs including Advanced Signs - N/A.

Existence and Condition of Non - Dedication plates - Overall condition of the Non - Dedication plates is good. P3 to P4.

New Mortar Tabs, Avongards, Plumbing Points, Pins, etc. Fitted during this Examination - None installed.

New Padlock(s) Fitted to Access Gates/Doors during this Examination - None installed.

Historical Railways Estate
EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE

ELR: AKC

Str. No: OB 95

Mileage:

0m 00ch

Sheet 4 of 6



Orientation of structure - Highlighted in red.



Photo No.1: Possible further deterioration: To the eroded stonework areas.

**Historical Railways Estate
EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC

Str. No: OB 95

Mileage:

0m 00ch

Sheet 5 of 6



Photo No.2: Approach road fencing: Typical example of the condition at S/W end.



Photo No.3: Non - Dedication plate: Typical example of the condition.

**Historical Railways Estate
EXAMINATION REPORT
PHOTOGRAPHS OF STRUCTURE**

ELR: AKC

Str. No: OB 95

Mileage:

0m 00ch

Sheet 6 of 6



Photo No.4: Non - Dedication plate: Typical example of the condition.



Photo No.5: View: Across Structure.

Historical Railways Estate

Structure Reference

Public Risk

Severity

Likelihood

Based On

Listed? Yes No

Maintenance Req'd?

Based On

Future Plans

Public Access Subtotal

Vandalism

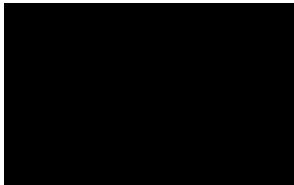
Flytipping

Right of Way

Fencing


Action/Notes Total


Bridge included in P2 infill programme.
No further action.



Signature

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Alnwick to Cornhill			OS ref: NU 158 118
Name: Alnwick Road			Type: Over bridge

General view of structure: North Elevation	Examiner comments
	<p><u>NEW & LONG-STANDING DEFECTS</u></p> <p>The examiner had access to the previous detailed examination report dated 28/11/2018.</p> <p>Any changes identified within the structure have been highlighted in Red text.</p> <p>See page 2 for details.</p>

<p>A Visual Examination of this structure has been carried out and any deterioration in condition or development of defects or other factors, which might place at risk the public at large, is recorded in the Examiner's Comments section of this document.</p>	Examiner: Terry Jarrett	Signed:
	Date: 25/06/2020	

Access Hazards:

Fast roadway located over the structure

Coldstream Junction with KLO is the low mileage end (West northwest towards Cornhill on Tweed).

Recommendations:

Renew all approach fencing- PS £3k.

Sig
En

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Alnwick to Cornhill			OS ref: NU 158 118
Name: Alnwick Road			Type: Over bridge

Examiner Comments on Structure condition

EXAMINATION NOTE

The main elevations of this structure have previously been identified as North and South. In the examiner's opinion the elevations are closer to a west and east orientation.

For the purpose of consistency the examiner has adhered to orientation conventions applied within previous reports. Highways England (HRE) may wish to decide which orientation is the preferred option they would like to be undertaken at the time of the next examination. A map showing the orientation of the structure is provided on page 9 for HRE consideration.

SERVICES

The HE (HRE) 2020 Health and Safety File notes:- Telephone – report dated 30/08/05 advises possible telecoms to N footpath.

The examiner can confirm that chambers identified as BT are located within the footpath (**photo 9**).

SOFFIT

Evidence of water ingress was noted within the soffit at rear of the voussoirs (**photo 10**).

PARAPETS & PILASTERS

North:- areas of long-standing displaced stonework are noted along the parapet. The displacement was noted up to 40mm at time of this examination (**photos 11 to 13**). Long-standing leaning action was noted along the parapet at the time of the detailed examination up to 50mm: the examiner does not consider the defect has worsened (**photo 14**).

South:- areas of long-standing displacement are noted along the coping line noted up to 15mm at time of the previous detailed examination (**photo 15**).

HANDRAILS & FENCING

Northwest:- a timber post and rail fence line extends from the end of the parapet. The fence line is intact over 3no posts. The fence fails beyond the 3rd post (**photo 16**).

Northeast:- a timber picket approach/ boundary fence line extends from the end of the parapet. The fence shows a number of pickets to be missing with some failure noted >4m from the end of the parapet (**photo 17**).

Southwest:- a timber post and rail approach/ boundary fence line extends from the end of the parapet. The fence shows almost complete failure (**photo 18**).

Southeast:- a timber picket approach/ boundary fence line extends from the end of the parapet. The fence shows some movement on touch (**photo 19**).

VEGETATION

The structure is typically free of vegetation.

TRACK/ ROAD CONDITION

Slight wear and tear of the asphalt was noted over the line of the structure (**photo 20**). Odd surface fractures were located within the roadway mainly to the south side (**photo 21**).

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Alnwick to Cornhill			OS ref: NU 158 118
Name: Alnwick Road			Type: Over bridge

Photographs of structure



Photograph 1: south elevation



Photograph 2: general view of the soffit

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Alnwick to Cornhill			OS ref: NU 158 118
Name: Alnwick Road			Type: Over bridge

Photographs of structure



Photograph 3: general view of the northwest wingwall



Photograph 4: general view of the northeast wingwall

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Alnwick to Cornhill			OS ref: NU 158 118
Name: Alnwick Road			Type: Over bridge

Photographs of structure



Photograph 5: general view of the southwest wingwall



Photograph 6: general view of the southeast wingwall

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Alnwick to Cornhill			OS ref: NU 158 118
Name: Alnwick Road			Type: Over bridge

Photographs of structure



Photograph 7: general view over the structure from the west looking east



Photograph 8: general view over the structure from the east looking west

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Alnwick to Cornhill			OS ref: NU 158 118
Name: Alnwick Road			Type: Over bridge

Photographs of structure



OS map of the structure location



Photograph 9: BT chambers are located within the footpath

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Alnwick to Cornhill			OS ref: NU 158 118
Name: Alnwick Road			Type: Over bridge

Photographs of structure



Photograph 10: example of water ingress through the soffit



Photograph 11: example of long-standing displaced stonework noted along the north parapet

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Alnwick to Cornhill			OS ref: NU 158 118
Name: Alnwick Road			Type: Over bridge

Photographs of structure



Photograph 12: example of long-standing displaced stonework noted along the north parapet



Photograph 13: the displacement was noted up to 40mm

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Alnwick to Cornhill			OS ref: NU 158 118
Name: Alnwick Road			Type: Over bridge

Photographs of structure



Photograph 14: long-standing leaning action is noted along the north parapet



Photograph 15: example of long-standing displacement noted along the copings upon the south parapet

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Anwick to Cornhill			OS ref: NU 158 118
Name: Alnwick Road			Type: Over bridge

Photographs of structure



Photograph 16: general condition of the northwest fence line



Photograph 17: general condition of the northeast fence line

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Anwick to Cornhill		OS ref: NU 158 118	
Name: Alnwick Road		Type: Over bridge	

Photographs of structure



Photograph 18: long-standing failure of the southwest fence line



Photograph 19: general condition of the southeast fence line.
The fence line moves on touch.

ELR: AKC	Structure No: 95	Mileage:	Examination date: 04/03/20
Route: Alnwick to Cornhill			OS ref: NU 158 118
Name: Alnwick Road			Type: Over bridge

Photographs of structure



Photograph 20: general wear and tear of the asphalt over the line of the structure



Photograph 21: odd surface fractures were noted within the asphalt