

Schedule 37 Part 1 – Principal Inspection Report

PRINCIPAL INSPECTION REPORT

FOR

Bridge Name

Bridge Number

Date of Inspection

	NAME	SIGNATURE	DATE
Prepared by			
Checked by			
Approved by			

CONTENTS

1. DESCRIPTION OF THE STRUCTURE
 - 1.1 Location Plan
 - 1.2 General Description and Bridge Condition Index Data
 - 1.3 Primary Deck Element
 - 1.4 Secondary Deck Element (if applicable)
 - 1.5 Movement / Expansion Joints (if applicable)
 - 1.6 Bearing Shelf and Bearings (if applicable)
 - 1.7 Foundations
 - 1.8 Abutments
 - 1.9 Piers (if applicable)
 - 1.10 Wing / Retaining Walls
 - 1.11 Parapets
 - 1.12 Carriageway and Footways
 - 1.13 Drainage (if applicable)
 - 1.14 Embankments (if applicable)
 - 1.15 Approach Rails and Safety Barriers

2. PREVIOUS INSPECTIONS/DETAILS AVAILABLE
 - 2.1 Previous Inspections
 - 2.2 Details Available
 - 2.3 History of the Structure

3. DESCRIPTION OF THE INSPECTION
 - 3.1 General
 - 3.2 Access Arrangements
 - 3.3 Limitations of the Inspection

4. STATUTORY UNDERTAKERS APPARATUS
 - 4.1 Services in the Vicinity Structure

5. RESULTS OF THE INSPECTION
 - 5.1 Primary Deck Element
 - 5.2 Secondary Deck Element (if applicable)
 - 5.3 Movement / Expansion Joints (if applicable)
 - 5.4 Bearing Shelf and Bearings (if applicable)
 - 5.5 Foundations

CONTENTS (Continued)

- 5.6 Abutments
- 5.7 Piers (if applicable)
- 5.8 Wing / Retaining Walls
- 5.9 Parapets
- 5.10 Carriageway and Footways
- 5.11 Drainage (if applicable)
- 5.12 Embankments (if applicable)
- 5.13 Approach Rails and Safety Barriers (if applicable)

6. DISCUSSIONS AND CONCLUSIONS

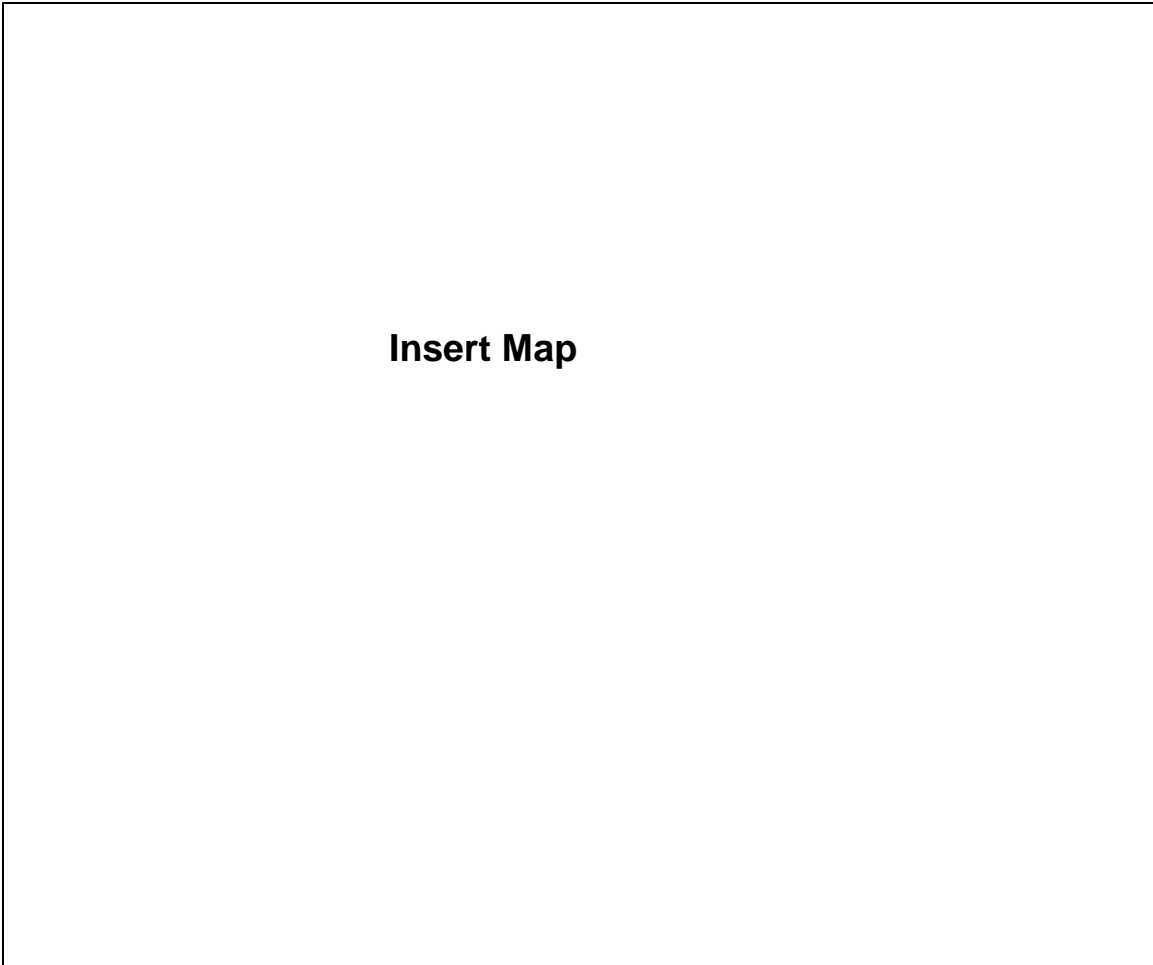
- 6.1 General
- 6.2 Substructure
- 6.3 Superstructure
- 6.4 Maintenance Defects List

7. MAINTENANCE RECOMMENDATIONS

- APPENDIX A - Drawings
- APPENDIX B - Photographs
- APPENDIX C - Statutory Undertakers Apparatus
- APPENDIX D - Bridge Condition Index Inspection

1. DESCRIPTION OF THE STRUCTURE

1.1 Location Plan



Produced with the permission of Her Majesty's Stationery Office (c) Crown Copyright
Sheffield City Council Licence No. LA 07 63 25.

1.2 General Description

Bridge Name:	Bridge Name
SCC Bridge Number:	Bridge Number
O.S. Grid Ref:	xxxxxx xxxxxx
Bridge Construction:	Brief description of the bridge construction.

Number of Spans:	Number of spans
------------------	-----------------

Clear Span(s): (square)	Span 1 (west) - x.xxx m Span 2 (centre) – x.xxx m Span 3 (east) - x.xxx m
Width of Structure:	x.xxx m (measured distance between the extremities of the bridge)
Total Width Between Parapets:	x.xxx m (measured distance between the inner faces of the parapets)
Width of Carriageway:	x.xxx m (measured distance between the kerbs)
Width of Footways / Verge:	.xxx m (measured distance between the Kerb and parapet)
Road and Road Number:	Road Number and Road name
Obstacle Crossed:	Road, railway, watercourse etc (names)
Date of Construction:	Date of construction of the bridge

1.2.1 Bridge Condition Index Data

Primary Deck Element:	Code:
Primary Deck Element Material:	Code:
Secondary Deck Element:	Code:
Secondary Deck Element Material:	Code:

1.3 Primary Deck Element

Description

1.4 Secondary Deck Element (if applicable)

Description

1.5 Movement / Expansion Joints (if applicable)

Description

1.6 Bearing Shelf and Bearings (if applicable)

Description.

1.7 Foundations

Description

1.8 Piers (if applicable)

Description

1.9 Abutments

Description

1.10 Wingwalls / Retaining Walls

Description

1.11 Parapets

Description

1.12 Carriageway and Footways

Description

1.13 Drainage (if applicable)

Description.

1.14 Embankments (if applicable)

Description

1.14 Approach Rails and Safety Barriers (if applicable)

Description

2. PREVIOUS INSPECTIONS/DETAILS AVAILABLE

2.1 Previous Inspections

List dates of any Principal Inspections carried out on the structure and the conclusions of the report.

2.2 Details Available

List of any drawings or any other useful information about the structure

2.3 History of the Structure

Any historical information about the structure eg Construction date and any work carried out

3. DESCRIPTION OF THE INSPECTION

3.1 General

Date: Date of inspection

Principal Inspector: Inspectors Name

Assistant: Assistants Name

Weather: Brief description of the weather during the duration of the inspection

3.2 Access Arrangements

Details of how all elements of the structure were accessed. Eg On foot, scaffolding or Mobile Access Platform

3.3 Limitations of Inspection

Details of any limitations eg Buried surfaces were not inspected, No cores or samples were taken etc

4. STATUTORY UNDERTAKERS

4.1 Services in the Vicinity Structure

List of any Statutory Undertakers equipment in the vicinity of the structure

5. RESULTS OF THE INSPECTION

5.1 Primary Deck Element

Description of condition and any defects

5.2 Secondary Deck Element (if applicable)

Description of condition and any defects

5.3 Movement / Expansion Joints (if applicable)

Description of condition and any defects

5.4 Bearing Shelf and Bearings (if applicable)

Description of condition and any defects

5.5 Foundations

Description of condition and any defects

5.6 Piers (if applicable)

Description of condition and any defects

5.7 Abutments

Description of condition and any defects

5.8 Wing / Retaining Walls

Description of condition and any defects

5.9 Parapets

Description of condition and any defects

5.10 Carriageway and Footways

Description of condition and any defects

5.11 Drainage (if applicable)

Description of condition and any defects

5.12 Embankments (if applicable)

Description of condition and any defects

5.13 Approach Rails and Safety Barriers (if applicable)

Description of condition and any defects

6 DISCUSSION AND CONCLUSIONS

6.1 General

General synopsis of the overall condition of the structure.

6.2 Substructure

Summary of the condition and defects of all substructure elements

6.3 Superstructure

Summary of the condition and defects of all superstructure elements

6.4 Maintenance Defects List

List of any defects that require maintenance

7 RECOMMENDATIONS

Any recommendations for the structure

APPENDIX A

Drawings

List of Drawings

List of Drawings

APPENDIX B

Photographs

List of Photographs

- Plate 1: XXXXX Elevation.
- Plate 2: XXXXX Elevation.
- Plate 3: photograph title
- Plate x photograph title
- Plate x General view over the structure looking XXXXX
- Plate x General view over the structure looking XXXXX



Plate 1: xxxx Elevation



Plate 2: xxxxx Elevation

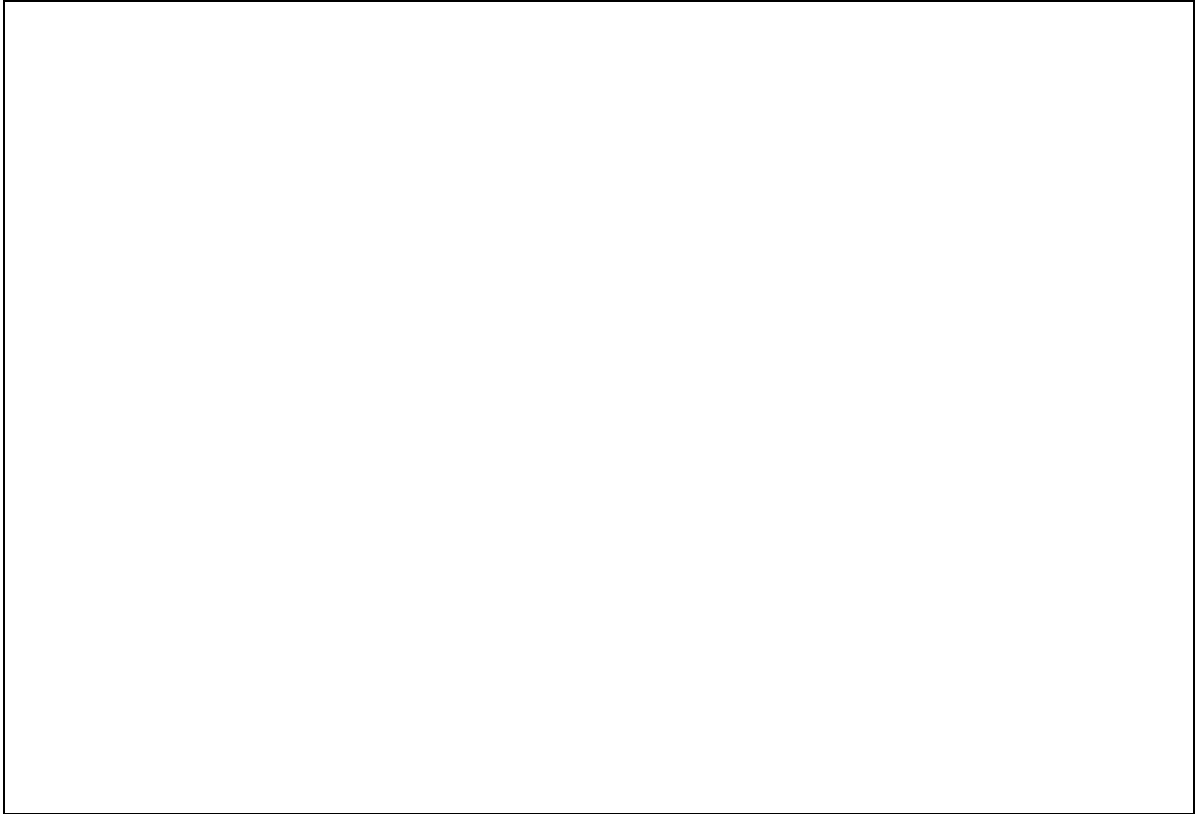


Plate 3: View showing

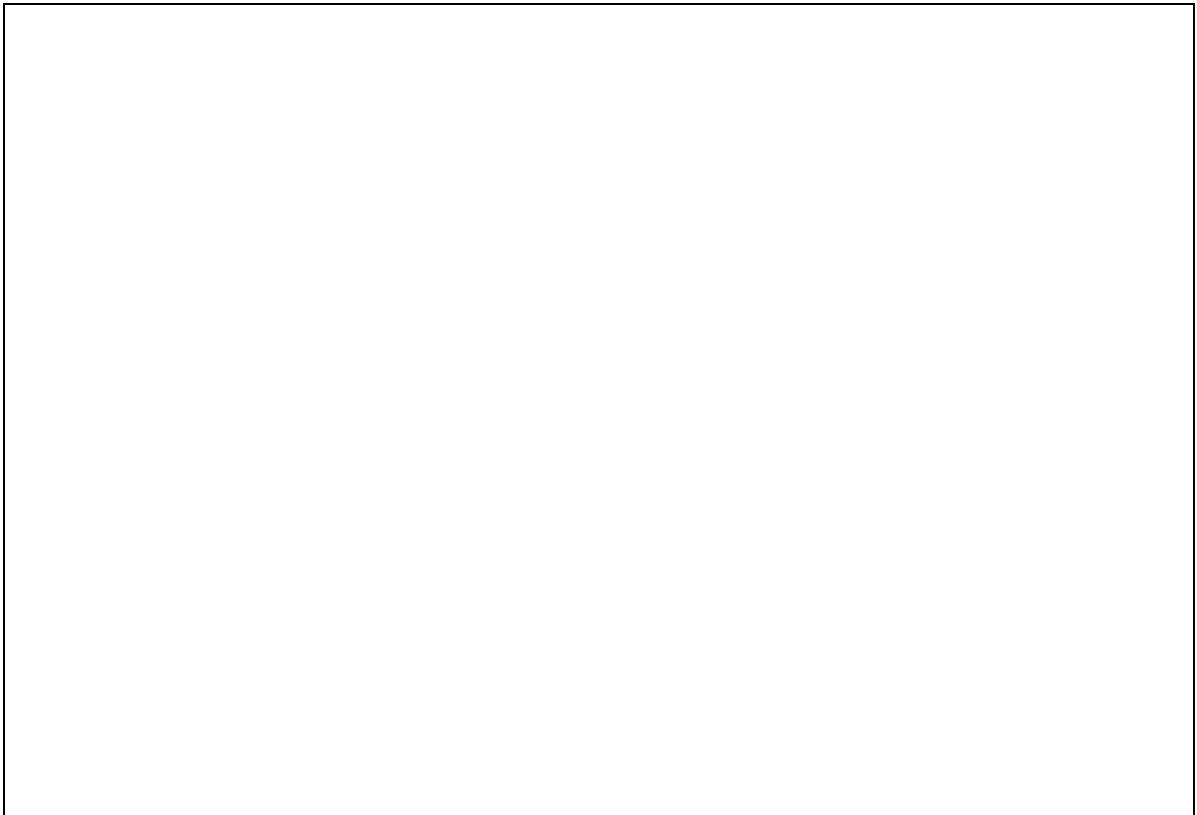


Plate 4: View showing

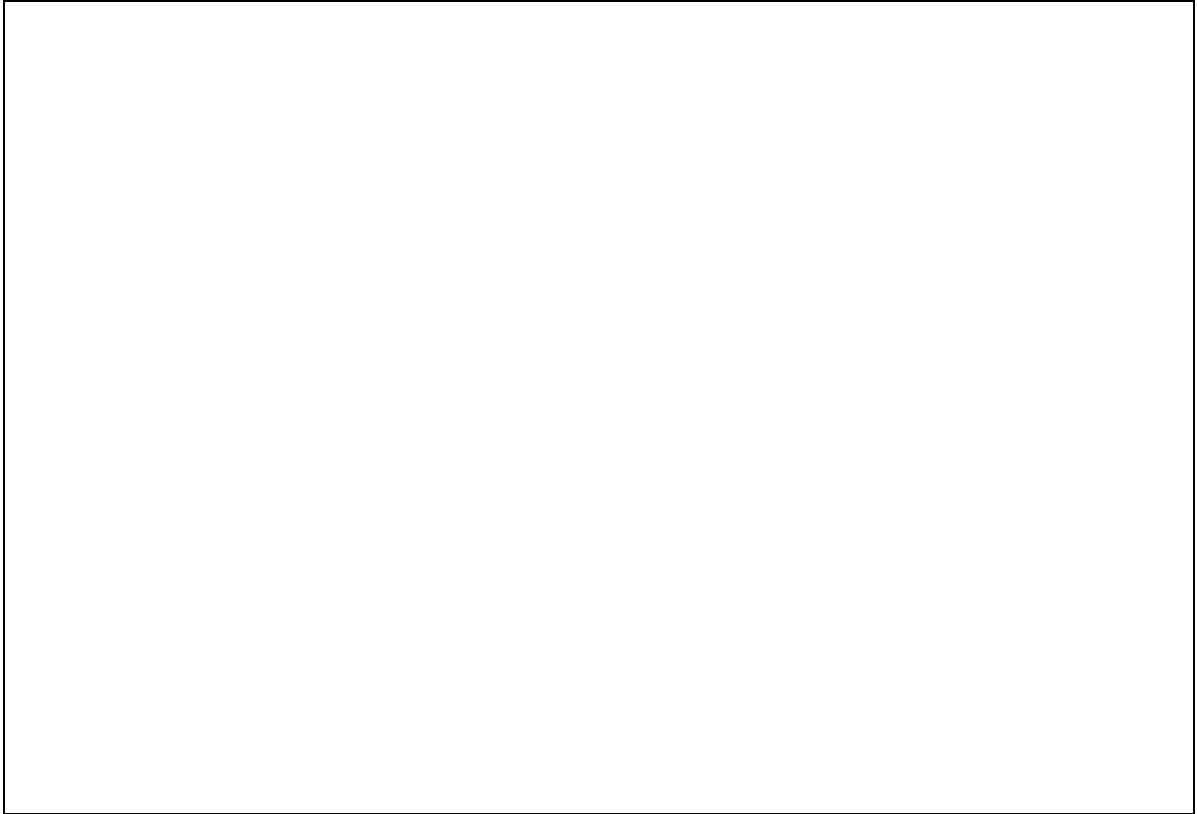


Plate xx: General view over the structure looking xxxxxxx.

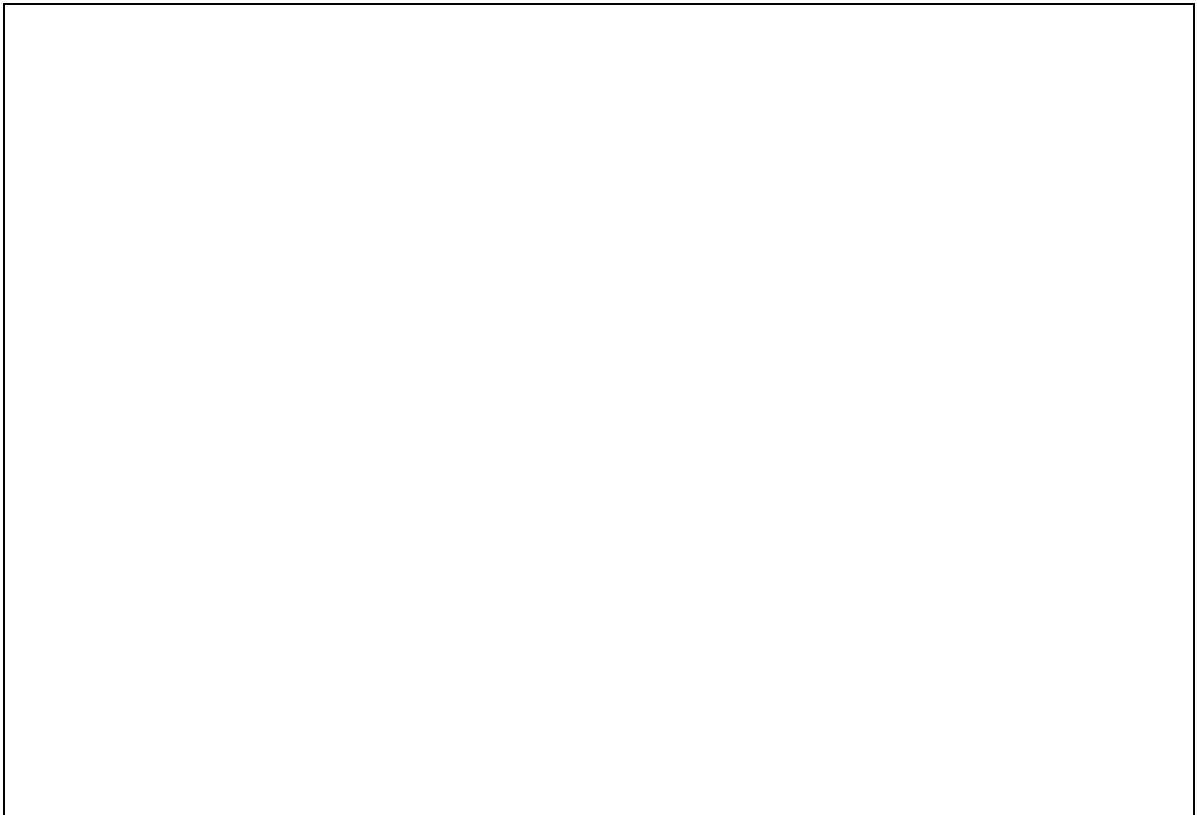


Plate xx: General view over the structure looking xxxxxxx.

APPENDIX C
STATUTORY UNDERTAKERS PLANS

APPENDIX D

BRIDGE CONDITION INDEX INSPECTION REPORT

Assessment Report

Structure: Bridge Name

Date:

Schedule 37 Part 3 – Structural Assessment Report

Bridge Name

Bridge Number

ASSESSMENT REPORT

	NAME	SIGNATURE	DATE
Prepared by			
Checked by			
Approved by			

Assessment Report

Structure: Bridge Name

Date:

Status of Report - Draft / Final
Bridge Name - Bridge Name
Bridge Number - Bridge Number
Obstacle Crossed - Obstacle Crossed
Road Number - Road Number
Address - xxxxxxxx, Sheffield, South Yorkshire

Insert Picture - Elevation

Structure: Bridge Name

Date:

CONTENTS

1. EXECUTIVE SUMMARY
2. INTRODUCTION
3. CONCLUSIONS OF INSPECTION REPORT
4. ASSESSMENT METHODS
5. CONCLUSIONS
6. REFERENCES

APPENDIX A - Assessment Calculations

APPENDIX B - Assessment Certificate
Check Certificate

Structure:

Date:

1. EXECUTIVE SUMMARY

2. INTRODUCTION

Bridge Name	Bridge Name
Bridge Number	Bridge Number
OS Grid Reference	xxxxxx xxxxxx
Bridge Construction	Brief description of the bridge construction.
Clear Spans	x.xxm
Width of Structure	x.xxm
Width of Carriageway	x.xxm
Width of Footways	x.xxm
Road	Name of road
Obstacle Crossed	Obstacle Crossed
Date of Construction	Date of construction if known.

Structure:

Date:

3 CONCLUSIONS OF INSPECTION REPORT

3.1 General

General synopsis of the overall condition of the structure.
(Principal Inspection Report)

3.2 Substructure

Summary of the condition and defects of all substructure elements
(Principal Inspection Report)

3.3 Primary Deck Element

Summary of the condition and defects of all substructure elements.
(Principal Inspection Report)

3.3 Secondary Deck Element (if applicable)

Summary of the condition and defects of all substructure elements.
(Principal Inspection Report)

Structure:

Date:

4 ASSESSMENT METHODS

4.1 Description of Assessment

Description of the Assessment methods and software used.

5 CONCLUSIONS

5.1 Primary Deck Element

Conclusions of Assessment of the Primary Deck Element

Maximum Gross Vehicle Weight – xxxx tonnes

5.2 Secondary Deck Element (if applicable)

Conclusions of Assessment of the Secondary Deck Element

Structure:

Date:

5.3 Assessment of Substructure

5.3.1 Foundations

5.3.2 Abutments

Qualitative assessment for arch bridges

Therefore the abutments pass / fail assessment.

5.3.3 Piers (if applicable)

Qualitative assessment for arch bridges

Therefore the abutments pass / fail assessment.

5.3.4 Spandrel Walls (arch only)

Qualitative assessment for arch bridges

Therefore the abutments pass / fail assessment.

Structure:

Date:

6 REFERENCES

Department of Transport - Departmental Standards

List of Department of Transport Departmental Standards used in the assessment

BD xx/xx

Department of Transport - Department Advice Notes

List of Department of Transport Department Advice Notes used in the assessment

BA xx/xx

List of any other documents used eg Principal Inspection Report

Structure:

Date:

STRUCTURAL ASSESSMENT SUMMARY OF RESULTS
(Used for Masonry Arch Bridges delete as necessary)

Analysis Results: Masonry Arch

Span Reference				
Method Used (eg MEXE or ARCHIE MULTI)				

Single Span Analysis

Allowable	Single Axle Load				
Axle	Double Axle Load				
Loads	Triple Axle Load				

Multi Span Analysis (Assuming Slender Piers)

Overall Global Capacity				
-------------------------	--	--	--	--

Maximum Gross Vehicle Weight				
Assessment Live Load Rating				
HB Rating				

Comments

Structure:

Date:

STRUCTURAL ASSESSMENT SUMMARY OF RESULTS
(Used for Other Bridges delete as necessary)

Analysis Results:

Component Name/Reference				
Section Location				
Type of Effect (Moment; Shear; Axial Force; or Stress) ULS/SLS				
(a) Total Resistance Capacity				
(b) Permanent Load Effects				
(c) Live Load Capacity $c = a - b$				
(d) Footway Load Effect				
(e) Adjusted HA Load Effect				
C Factor = $(c - d) / e$ See BD 21/97 Chapter 5				

Accidental Wheel Loading Effect				
Single Axle/Wheel Loading Effect				
Pass/Fail				

Assessment Live Load Rating				
-----------------------------	--	--	--	--

(f) 45 Units HB Load effect				
(g) Associated Live Load Effect				
HB Rating = $45 \times (c - g) / f$				

<p><u>Comments</u></p>

Structure:

Date:

APPENDIX A

Assessment Calculations

Structure:

Date:

APPENDIX B
Assessment Certificate
Check Certificate



Sheffield City Council
Highways Maintenance PFI Project

Certification Engineer or Independent Certifier

Report Number XX - Date XX

- 1 The number of CIP Certified Street Lighting inspected during the month is:
- 2 The percentage of CIP Certified Street Lighting inspected during the month is:
- 3 The number of Certificates of Compliance issued during the period is:
- 4 The number of Certificates of Non-Compliance issued during the period is:
- 5 Snagging Items are recorded on the following inspection sheets, which accompany this Report:
- 6 Outstanding Non-Compliance issues to be address during the next period are presented on the following inspection sheet:
- 7 The following Milestones were achieved during the period:
- 8 The overall number of Replacement CIP Certified Street Lighting installed to date is:
- 9 The overall number of Replacement CIP Certified Street Lighting removed to date is:
- 10 Issue date of the last Non Compliance Certificate is:

