

Trub
STR_4272 /M62//63.40//

'WARNING – Assume that Asbestos is present. Be familiar with the relevant National Highways Help Guide and follow your own safe working procedures.'



Structures Principal Inspection Report

02/03/2021
Completed

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1. Inspection Summary

Structure Name Trub **Maintaining Agent** National Highways Area 10/Area 10
Structure Key STR_4272 **Geographical Area** Manchester
Structure Number /M62//63.40// **Custodian/Region** NH_OWNED / North West
OS Grid 388500 / 409880 **Structure Type** Bridge And Large Culvert

General Description

[REDACTED]

. The parapets are P1 steel double post and 3 rail and there are safety fences in the centre reserve.

Structure Articulation

[REDACTED]

Inspection Date 02/03/2021

Inspection Weather Date	Weather	Day Or Night
02/03/2021	Dry, Calm, 12 Degrees (C)	Day

Overall Condition Good

Inspection Method Access on foot utilising MEWP access within traffic management. Inspection in accordance with CS 450.

Equipment Used MEWP, camera, chalk, steel tape, crack rule, tap hammer, disto and PPE.

Inspected By [REDACTED] (Up & Under)

Authorised By [REDACTED] **Date Authorised** 14/04/2021

Summary

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Parts of Structure Not Inspected

Foundations and other concealed elements.

2. Associated Images and Documents

01. North elevation.jpg



02. South elevation.jpg



10. Soffit.jpg

09. Southwest retaining w

20. Westbound carriageway.jpg

05. Northeast wingwall.jpg

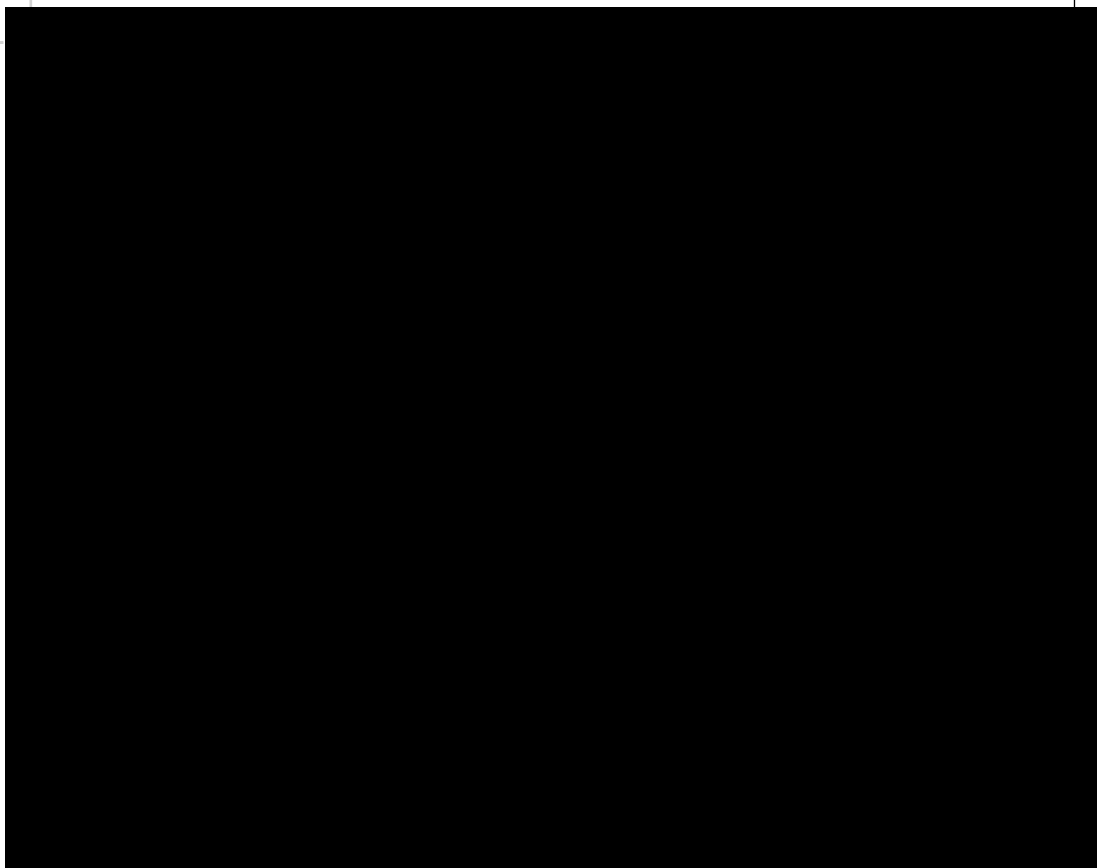
07. Southeast wingwall.jpg

12. Typical West abutment
bearing.jpg

13. North parapet.jpg



04. West abutment.jpg



16. Northwest parapet connection.jpg



06. Northwest wingwall.jpg



08. Southwest wingwall.jpg



11. Typical East abutment
bearing.jpg

15. Northeast parapet connection.jpg



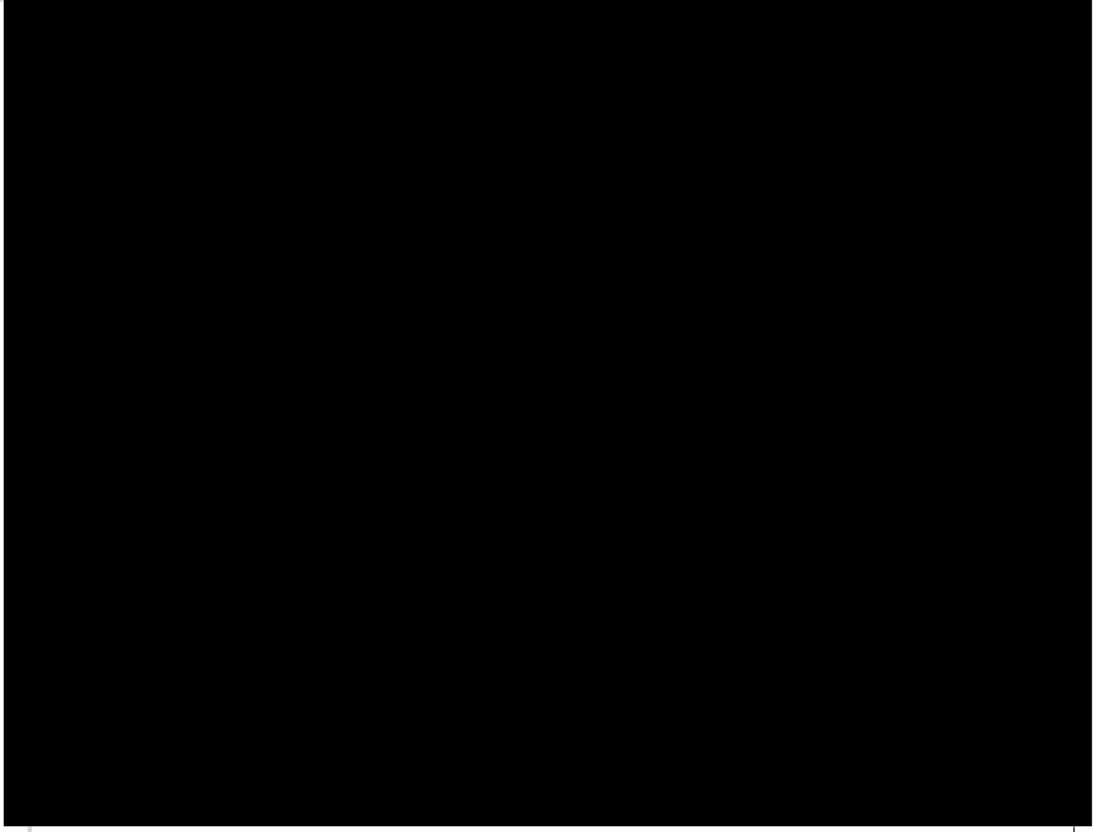
19. Eastbound carriageway.jpg



03. East abutment.jpg



14. South parapet.jpg



17. Southeast parapet
connection.jpg

18. East joint.jpg

STR_4272 Headrooms
02.03.2021.doc



STR_4272 2021-04-14
Structures Principal Inspection
Report.pdf



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Structures Principal Inspection Report
 Trub /M62//63.40//
 Data Provided by IAMIS at 11:31 Thursday 20 June 2024

Comments

[REDACTED]

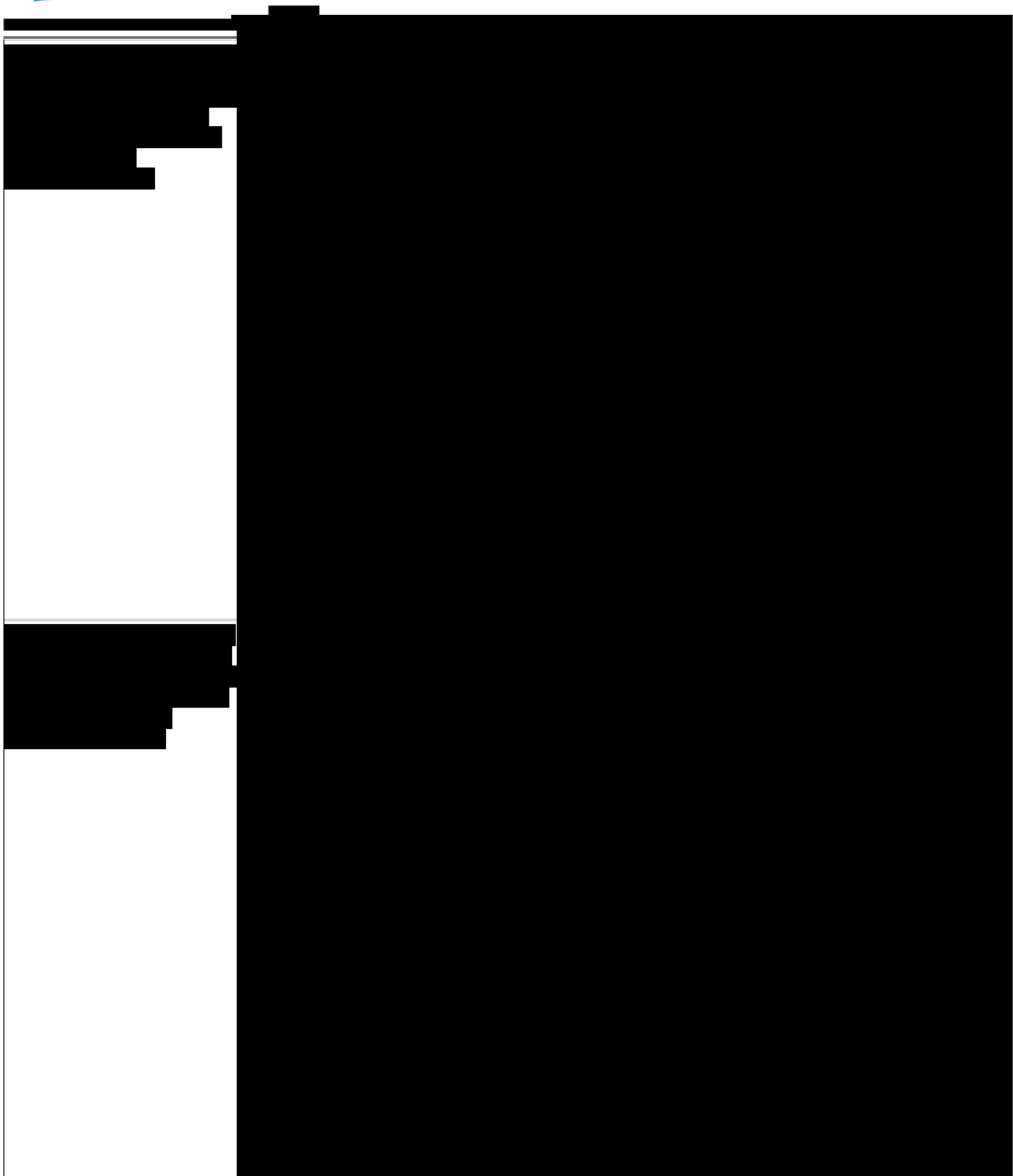
[REDACTED]

[REDACTED]

[REDACTED]

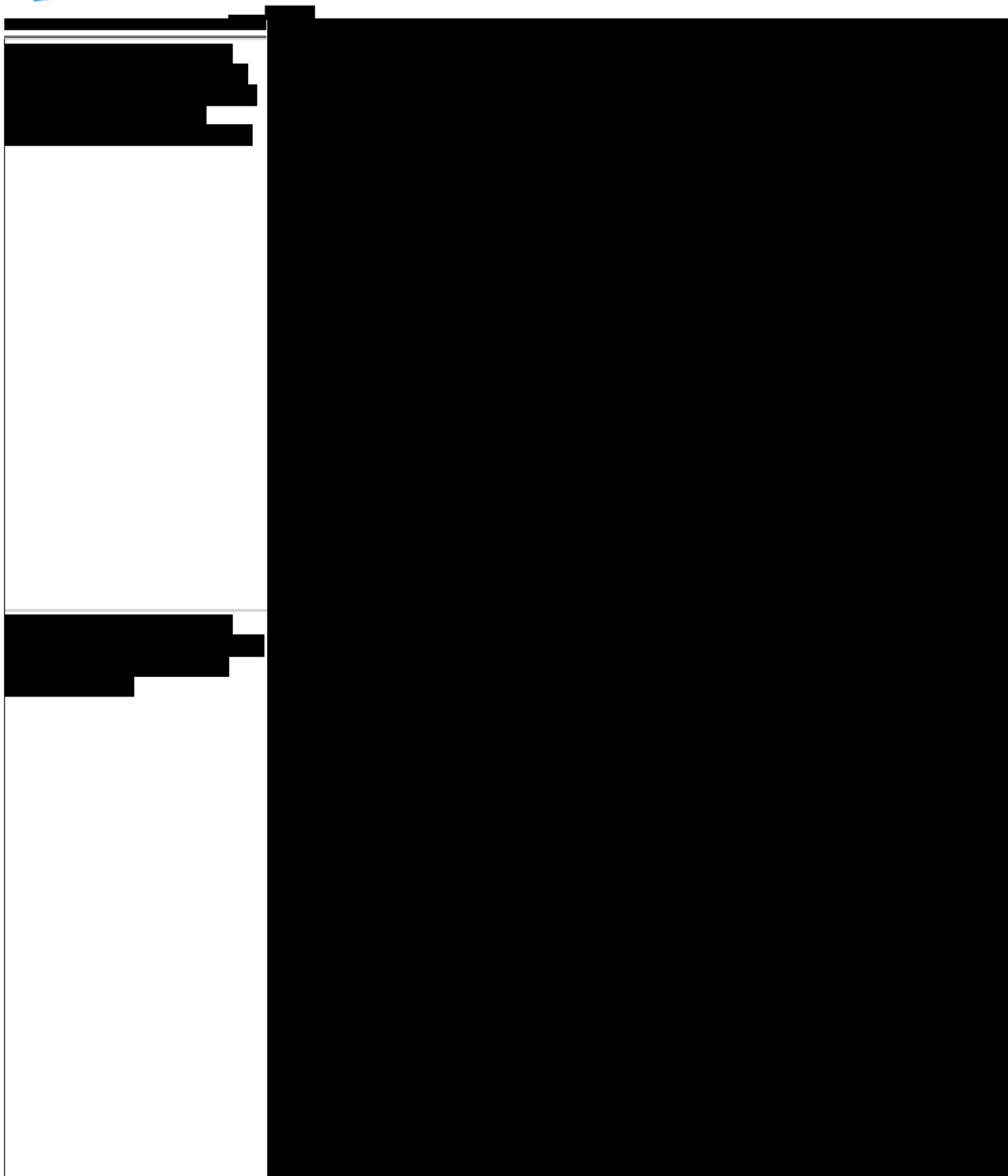
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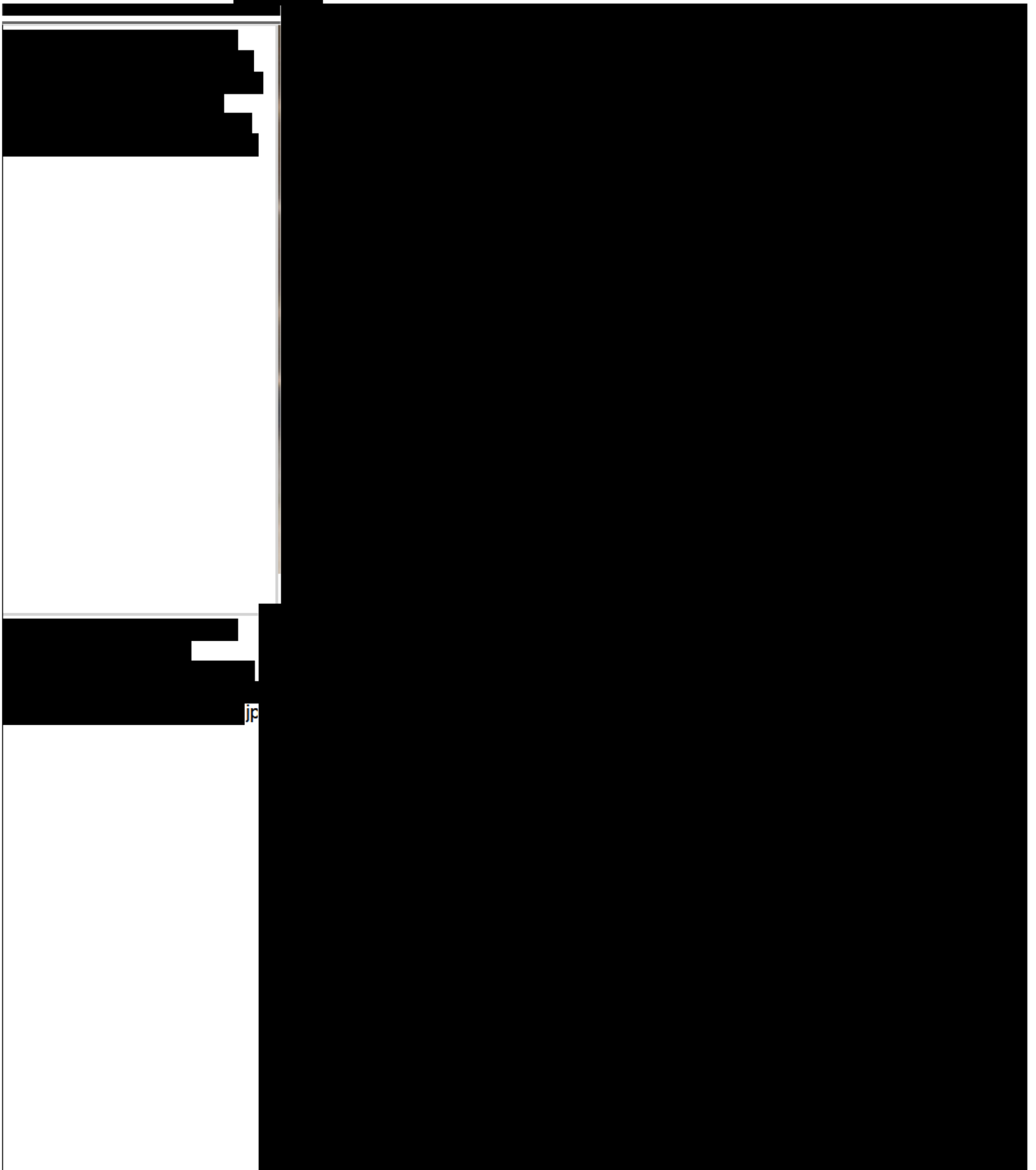
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Structures Principal Inspection Report
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 Data Provided by IAMIS at 11:31 Thursday 20 June 2024

28 of 87

[REDACTED]

[REDACTED]

[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
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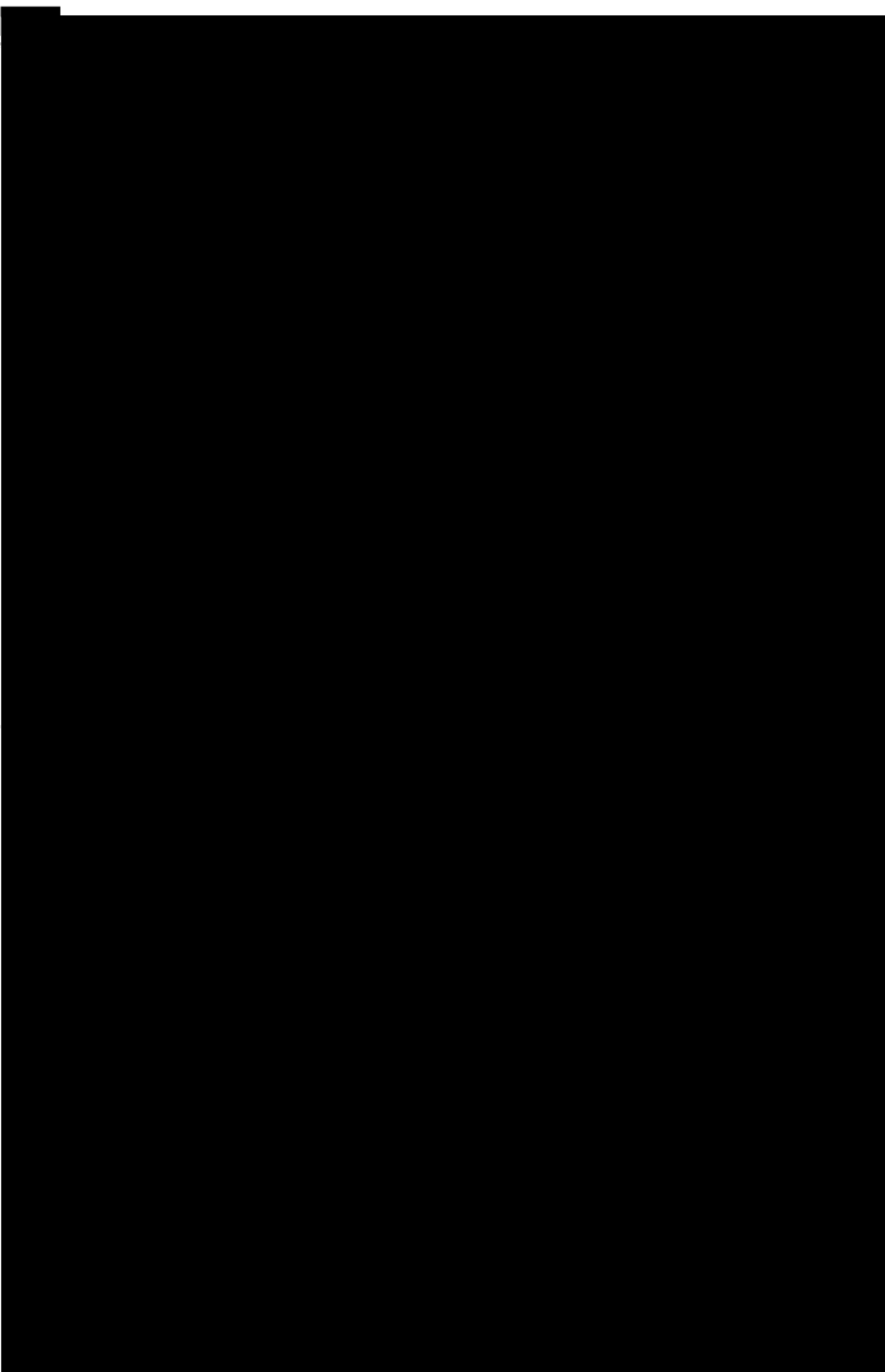

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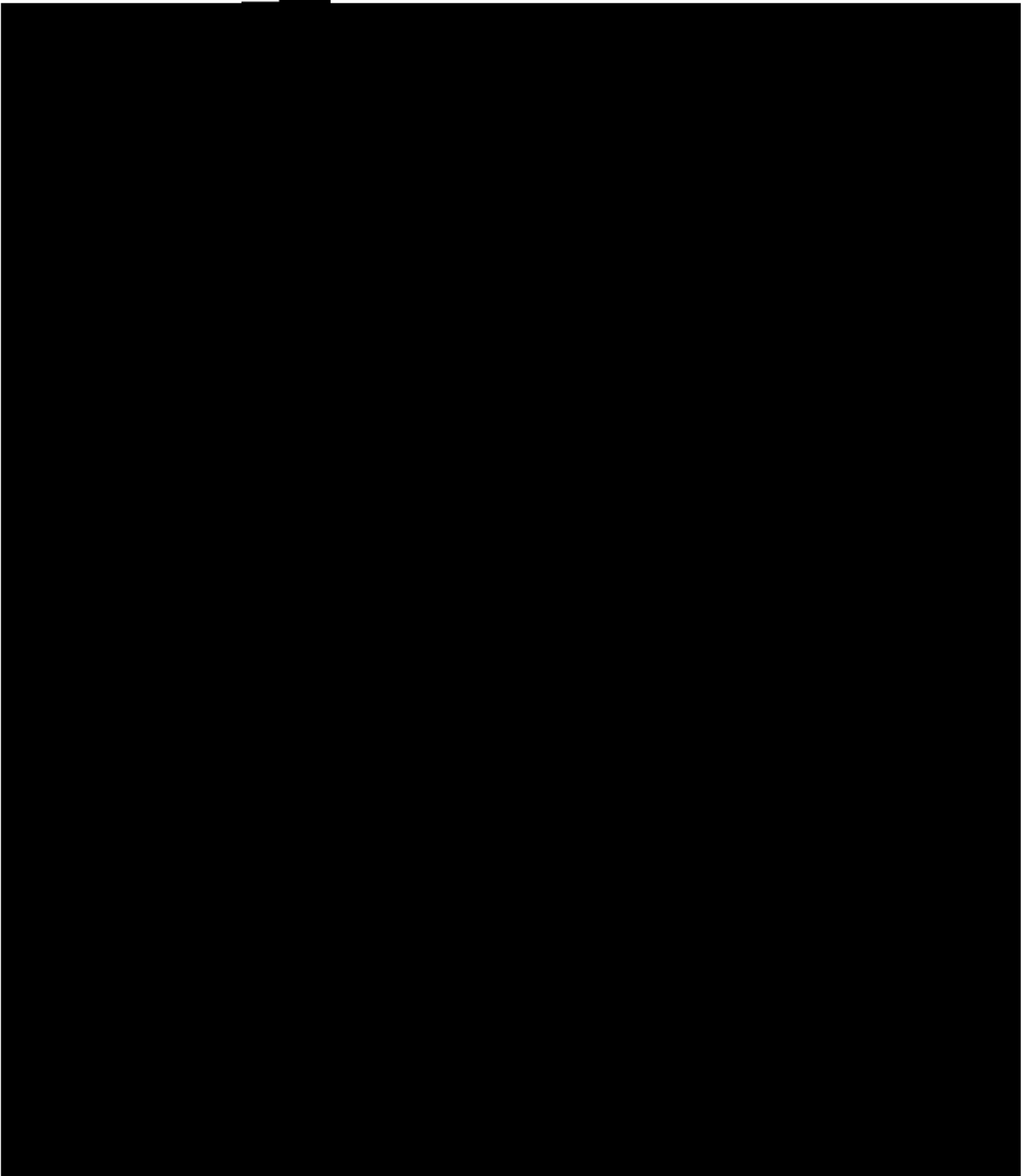
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[REDACTED]

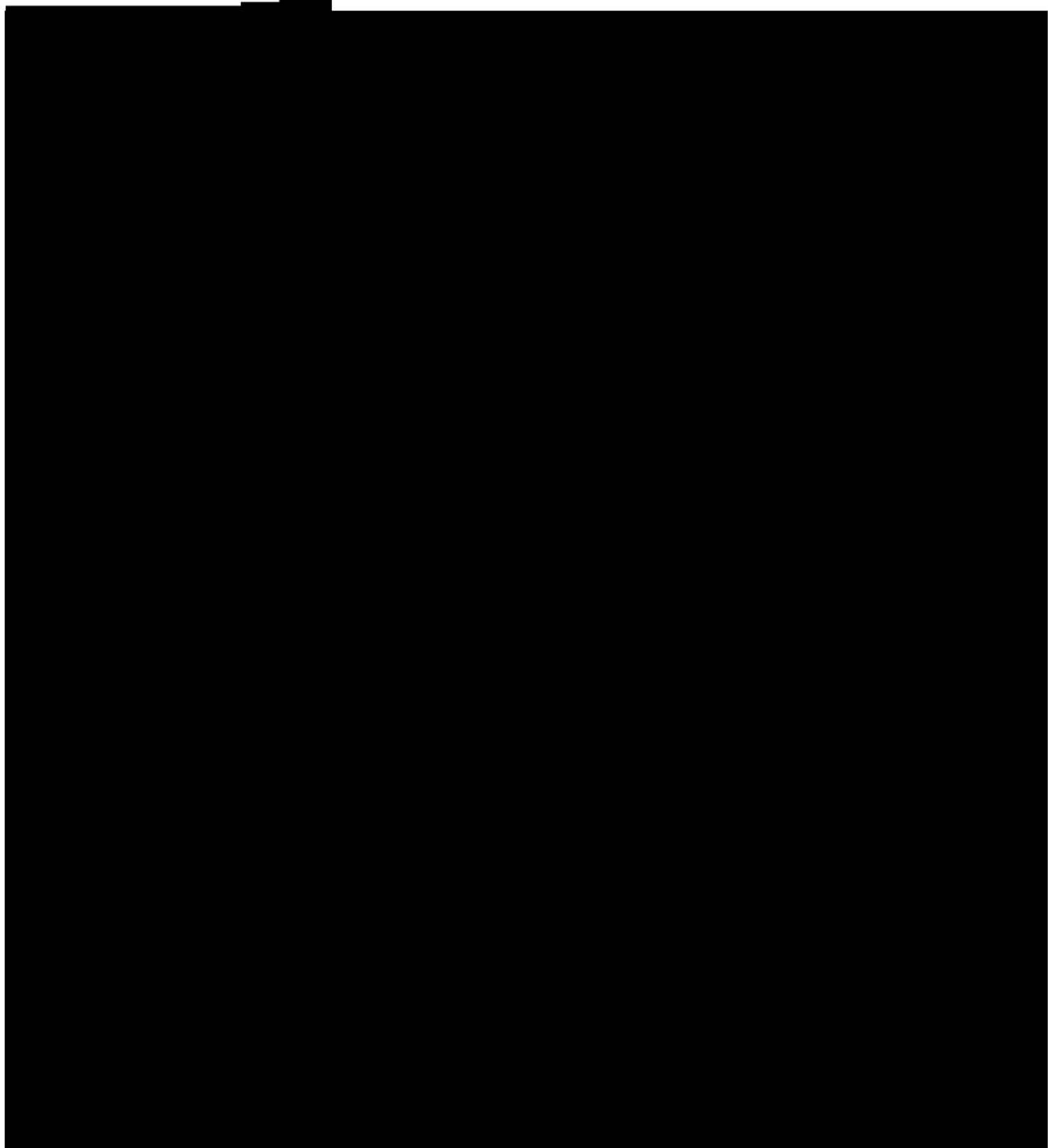
	
	


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Defect Code	DEF_6621540		
Component	Road Vehicle Restraint System	North Parapet	
Defect Type	Sp - Spalled area Loss of concrete or masonry		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D2 - Minor: Defect is unlikely to be causing damage to the element or structure now or unlikely to do so in the near future		
Priority	Low		
Comments	The grout beneath the parapet post base plates was found to be cracked and spalled. Monitor at future inspections.		
Cause	Certainty		
Comment on Cause			
Document ID	4005568	Document Title	STR_4272 Defect Photos 02.03.2021
01. View showing spalled grout beneath the North parapet post base plates.jpg			

[REDACTED]

[illegible]

4. All Draft, Instructed and Authorized Works Orders

'N.B., The Origin of Work for each of these Work Orders is Routine Inspections (currently Principal, General, Special and Monitoring)'

Work Order Number	183956	Priority	Medium
Maintenance Object	Parapet	Maintenance Action	Replace
Estimated Cost	£30,000.00	Recommended Action Date	
Comments	Replace 6m of middle parapet rail. Replace 12m of bottom parapet rail.		

5. Additions to the next Routine Maintenance

6. Defects Addressed by Inspector on Site

8. All Draft, Instructed and Authorized Works Orders from sources other than inspections

N.B. Currently these would be work orders with an Origin of Work not set to Routine Inspection, e.g, BACO Parapets or ASR

9. Other Planned Inspections

Type of Inspection	Planned Start Date	Due Date	Description	Status
Structures General Inspection	13/02/2023	10/02/2023	1203746-STR_4272 Trub//M62/63.40//GI-dd 10/02/2023 (Inertia)	Completed
Structures General Inspection		10/02/2025		Not Started
Structures Principal Inspection		10/02/2027		Not Started

10. Appendix 1



Structure Report

Trub STR_4272 /M62//63.40//
M62 63.40

'WARNING – Assume that Asbestos is present. Be familiar with the relevant Highways England Help Guide and follow your own safe working procedures.'

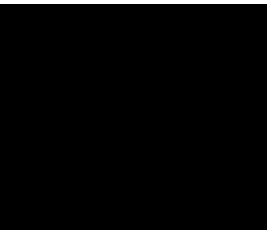
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[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

1.1 Structure Type

Bridge Type



Highway Underbridge -
Underbridge



[REDACTED]

No. Spans 1
Length (m) 17.80

[REDACTED]

1.2 Description Of Structure

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]. The parapets are P1 steel double
post and 3 rail and there are safety fences in the centre reserve.

1.3 Articulation

[REDACTED]
[REDACTED]

[REDACTED]

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

3. Assessments, Inspection and Maintenance History

3.1 Completed Inspections

Inspection Type	Inspection Date	Inspection Description
Structures General Inspection	13/02/2023	Where seen the structure was found in good condition, with no significant changes since the previous inspection. [REDACTED]
Structures Principal Inspection	02/03/2021	[REDACTED]
Structures General Inspection	21/06/2018	[REDACTED]
Structures Special Inspection	09/05/2017	Parapet Strike: 09/05/2017 Repair Date: 18/10/2017 Details of the strike can be found in the 'docs attached' tab
Structures General Inspection	19/09/2016	[REDACTED] Cracking to the surfacing and section loss to the parapet were not visible at the time of inspection due to measures in place as part of ongoing works to install smart motorways.
Structures Principal Inspection	12/06/2015	[REDACTED]
Structures Special Inspection	06/09/2014	ACTUAL INSPECTION DATE 15/01/2014 - DATE SLIP ON THE INSPECTION DESCRIPTION Date of strike: 15/01/14 Date of Repair: 12/08/2014 Details of the strike are held in the "Docs Attached" tab. No defects have been added due to the repair being carried out before this inspection was added.

Structures Special Inspection	05/09/2014	*Actual Date 147/09/2013* Date of Strike: 17/09/2013 Date of Repair: 28/09/2013 Details of the incident are held in the Trace. This has been uploaded into the "Docs Attached" section. No defect has been added as this inspection has been entered after the defect has been repaired.
Structures Special Inspection	04/09/2014	[REDACTED]
Structures General Inspection	26/04/2013	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
Structures Special Inspection	08/02/2011	Eastbound Carriageway Impact damage to bottom steel parapet rail. Impact damage to rail connection.
Structures General Inspection	25/01/2011	Since the last inspection the varioguard has been removed as the parapet has been replaced on the eastbound carriageway.
Structures Special Inspection	01/04/2010	Eastbound Carriageway Impact damage to bottom steel parapet rail.
Structures Special Inspection	09/03/2010	Westbound Parapet Impact damage to lower middle galvanised steel parapet rail. Impact damage to bottom galvanised steel parapet rail. Impact damage to rail connections. Impact damage to parapet edge beam adjacent to impact area. Anchorage bolts lifted after impact.
Structures Principal Inspection	10/02/2009	The structure has significant impact damage and corrosion, to the parapets and impact damage to the stringcourse it was therefore seen to be in fair condition. Temporary barriers have been installed and impact damage is in the process of repair. [REDACTED]
Structures Special Inspection	10/07/2008	Significant impact damage to the eastbound carriageway parapet was noted at time of inspection.

3.2 Completed Assessments

Assessment Type	Assessment Date	Assessment Status	Assessment Description
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WO ID	Maintenance Object	Maintenance Action	Start Date	Work Order Description
88249	General	Change Status	24/07/2018	Delete unconfirmed defects.
92500	General	Change Status	02/02/2016	Remove all unconfirmed defects.
104693	Routine Maintenance	Routine Maintenance	03/02/2011	Rake out and replace the polysulphide joints as part of the routine maintenance.
107689	Parapet	Repair	08/04/2010	Replace 7.20m section of bottom parapet rail.

3.4 Additional Maintenance History

[REDACTED]		[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

5. Interim Measures

Edge Protection (TVCB)			
Component	Trub	Expected Start Date	10/03/2010 00:00:00
Origin	Incident	Expected End Date	
Standard (Application)		Location	
Direction	Varioguard	Res. Capacity Tonnes	
Res. Cap. HB (with LL)		Res. Cap. HB (Without LL)	
Description	Varioguard		
Edge Protection (TVCB)			
Component	Trub	Expected Start Date	01/01/2008 00:00:00
Origin	Incident	Expected End Date	
Standard (Application)		Location	
Direction	Installation of varioguard due to sub-standard parapets	Res. Capacity Tonnes	
Res. Cap. HB (with LL)		Res. Cap. HB (Without LL)	
Description	Installation of varioguard due to sub-standard parapets		
Edge Protection (TVCB)			
Component	Trub	Expected Start Date	01/01/2008 00:00:00
Origin	Incident	Expected End Date	09/04/2010 10:05:22
Standard (Application)		Location	
Direction	Installation of Varioguard whilst parapet replacement contract is prepared	Res. Capacity Tonnes	
Res. Cap. HB (with LL)		Res. Cap. HB (Without LL)	
Description	Installation of Varioguard whilst parapet replacement contract is prepared		

6. Departures

No Departures present

7. Coating System for Steelwork

No Coating System for Steelwork recorded

8. Coating System for Concrete

No Coating System for Concrete recorded

[REDACTED]

[REDACTED]

Response	Percentage
Appropriate	55%
Too High	35%
Too Low	10%

[illegible]

[REDACTED]

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Road Vehicle Restraint System North Parapet	
Date Installed	01/JAN/1969
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	Y
Safety Fence Depart	Y
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

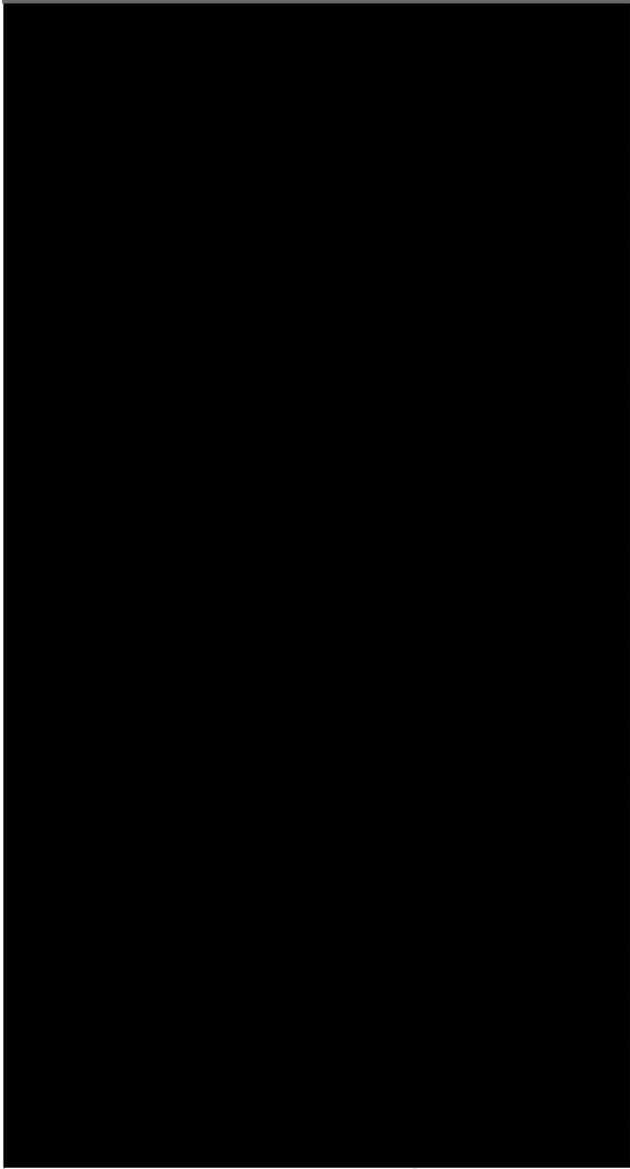
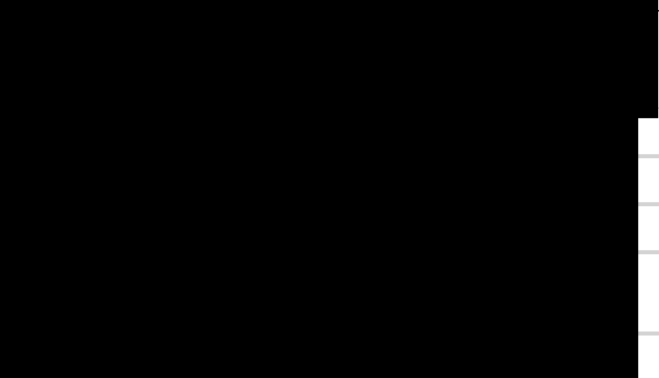
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Question	Yes (%)	No (%)
1. Has your business experienced a significant decline in sales?	75	25
2. Has your business experienced a significant increase in sales?	25	75
3. Has your business experienced a significant change in customer behavior?	70	30
4. Has your business experienced a significant change in employee behavior?	70	30
5. Has your business experienced a significant change in the way you operate?	70	30
6. Has your business experienced a significant change in the way you market?	70	30
7. Has your business experienced a significant change in the way you manage?	70	30
8. Has your business experienced a significant change in the way you communicate?	70	30
9. Has your business experienced a significant change in the way you deliver services?	70	30
10. Has your business experienced a significant change in the way you interact with customers?	70	30
11. Has your business experienced a significant change in the way you interact with employees?	70	30
12. Has your business experienced a significant change in the way you interact with suppliers?	70	30
13. Has your business experienced a significant change in the way you interact with the community?	70	30
14. Has your business experienced a significant change in the way you interact with the government?	70	30
15. Has your business experienced a significant change in the way you interact with the media?	70	30
16. Has your business experienced a significant change in the way you interact with the public?	70	30
17. Has your business experienced a significant change in the way you interact with the industry?	70	30
18. Has your business experienced a significant change in the way you interact with the market?	70	30
19. Has your business experienced a significant change in the way you interact with the economy?	70	30
20. Has your business experienced a significant change in the way you interact with the world?	70	30

Road Vehicle Restraint System	North Parapet delete
Date Installed	01/JAN/1969
Restraint Location	Deck Edge
Designer - Parapet	Not Known
Parapet Type	Not Applicable
Infill Type	No Infill (O)
Nominal Height	1 (1)
Road Vehicle Restraint Form	Vehicle Parapet
Parapet Modification	Not Modified
Manufacturer - VRS	Not Known
Barrier Type	Other
Containment Performance Class	Not Applicable
Parapet Group	Not Applicable
Parapet System	Not Specified
Working Width	Not Applicable
Safety Fence Approach	N
Safety Fence Depart	N
Protection System Effective	N
Parapet Protection Reason	Not Applicable
Containment Capacity Requirement	Not Specified
Containment Basis	Not Known
Risk Ranking	0
Priority Ranking	0
Is Parapet Protected	N

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[REDACTED]	[REDACTED]

Interim Measure Edge Protection (TVCB)	
Physical Component	
Interim Measure Type	Edge Protection (TVCB)
Interim Measure Description	Installation of varioguard due to sub-standard parapets
Reference to IM Event	1561

[illegible][illegible]

Structures Principal Inspection Report

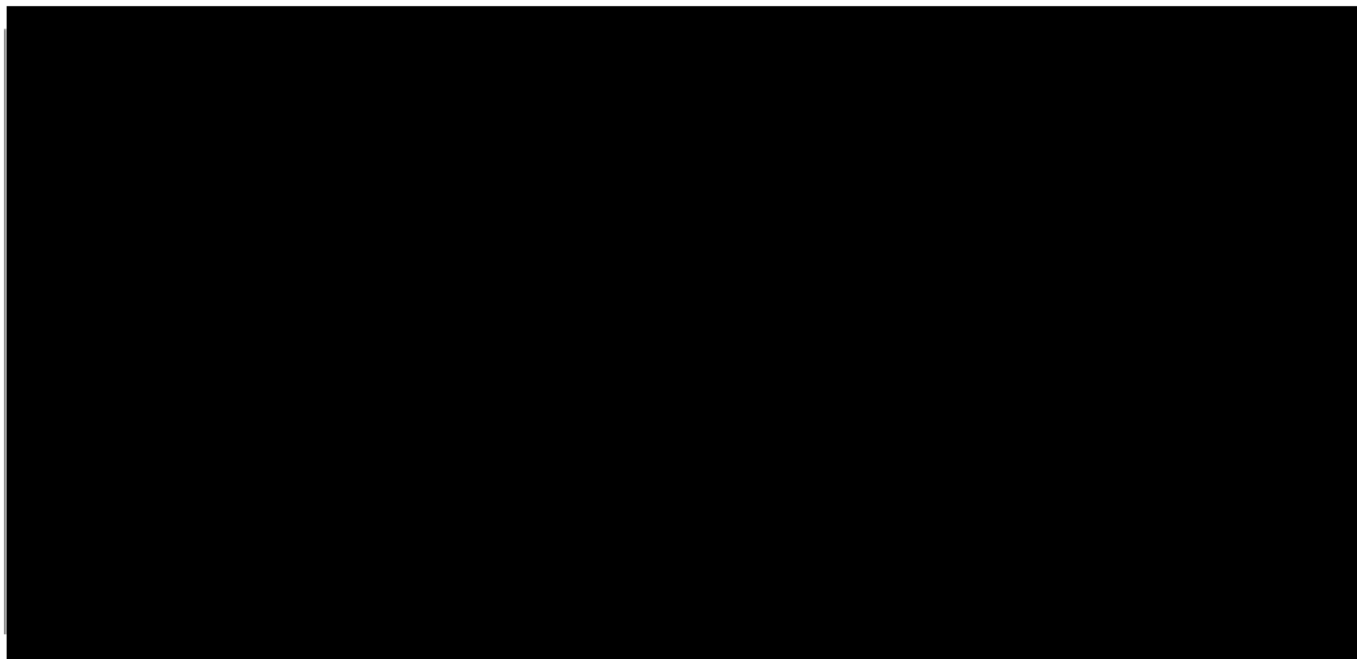
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2.5 SUB - Check and replace drainage gratings and covers	
2.5 SUB - Repair gap sealant to movement joints	
2.5 SUB - Check and clean security mirrors	
2.6 CUL - Remove vegetation and debris from within	
2.6 CUL - Remove flow restricting build-up	
2.6 CUL - Repair gap sealant to movement joints	
2.7 SSGHMCL - Tighten holding down bolts	
Other Tasks to be carried out	
Condition Performance Indicator	
Project Attributes	
Latitude (Dec)	53.585378
Longitude (Dec)	-2.175186
Latitude (DMS)	53° 35' 07.360601" N
Longitude (DMS)	2° 10' 30.667877" W

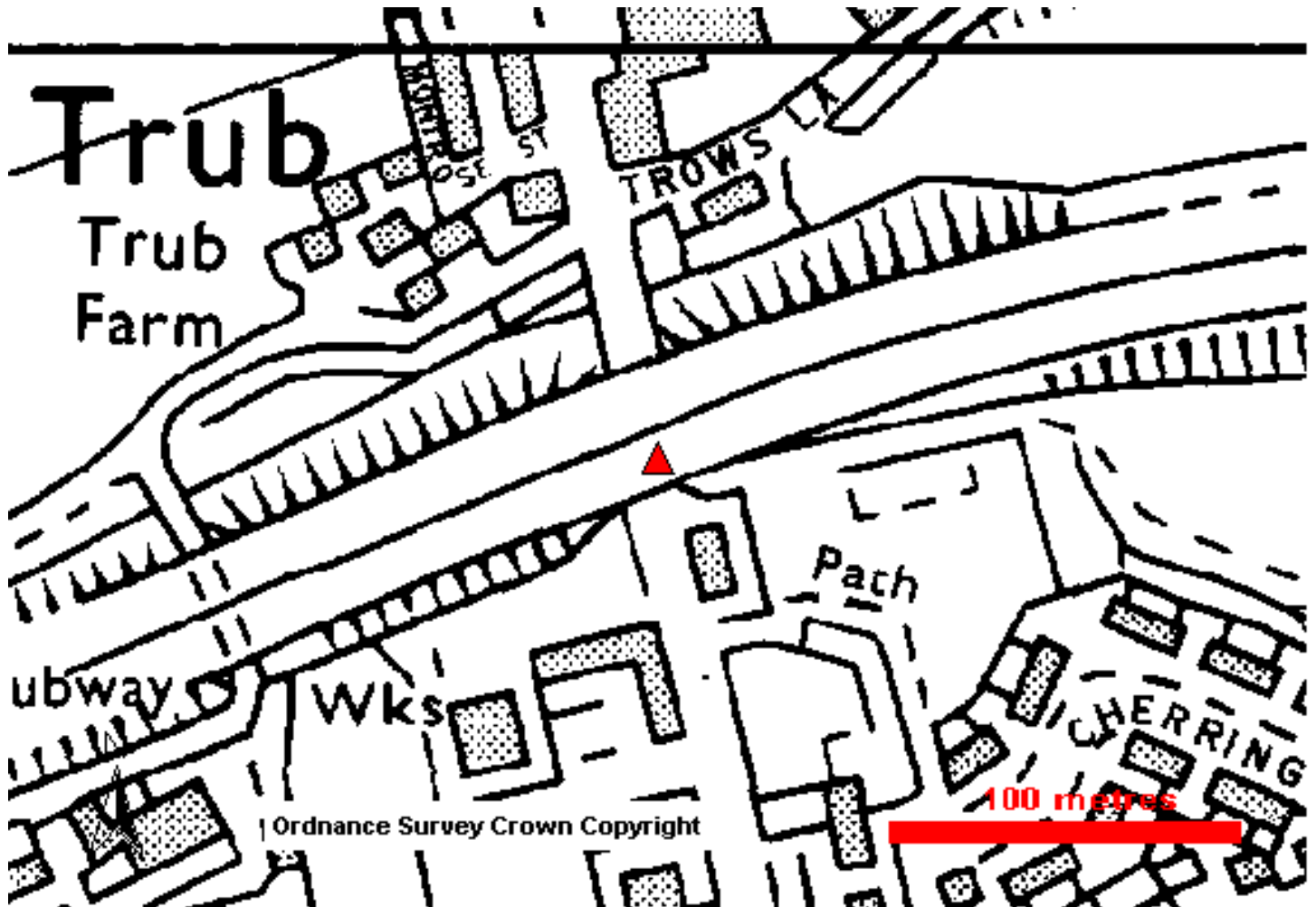
10. General Photograph



11. Elevation Drawing



12. Map



13. 1:50,000 Map

