

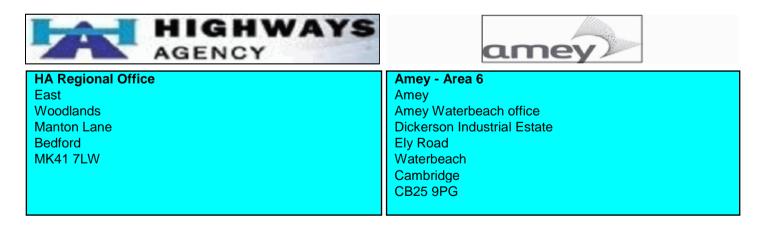
Claydon I/C North (/A14//181.10//) SMIS Structure Key: 9942

WARNING - Asbestos is present. Be familiar with SMIS Help Guide and the AAP, follow your own safe working procedures.



Principal Inspection

20 May 2015



HIGHWAY AGENCY	S	SMIS
Principal Inspec	ction Report for Claydon I/C Nort (Authorised)	th (/A14//181.10//)
Signatures	(stationised)	
Inspected by	Signature	Date
Checked by	Signature	Date

Authorised by	Signature	Date	



(Authorised)

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Annex 1 - Structure Report



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		Authorised)	
Summary			
Structure Key	9942	Agent Name	Amey - Area 6
Commissioned	01/01/1975	O.S. Grid Ref East/North	612890 / 249610
Bridge Type	Highway Underbridge		
Length	32.30	Number of Spans	3
Date Inspected	20/05/2015	Overall Condition	Fair
Weather	Night: Dry and Mild		
Weather on 21/05/2015	Day: Dry and mild		
Inspected by			
Authorised by			
Authorisation date	05/01/2016		
Method of Inspection	On foot, visual		
Equipment Used	MEWP, inspection tools ar	nd PPE	
Parts of Structure Not	Foundations, buried/hidde	n surfaces and central reserve	
Inspected			

General Description

The structure is a simply supported three span underbridge and carries the A14, two lane, dual carriageway all purpose trunk road and two verges over the B1113 interchange through the centre span.

The bridge has two side spans of 9.0m and a main span of 14.25m and an overall width of 31.45m. The bridge is square to the A14.

The bridge comprises a cast in situ reinforced concrete top slab and 28no. type M1 precast prestressed beams with precast prestressed concrete type B2 box edge beams supported by cast in situ reinforced concrete bank seat abutments and two intermediate cast in situ reinforced concrete multiple leg portal piers. The bankseats and piers are founded on spread foundations. Flying wingwalls are cantilevered from the back of the bank seats. The deck has a longitudinal joint.

The dual 2 lane A14 on the bridge has carriageways 9.3m wide with 1m wide verges and a 9.9m wide central reserve. Asphaltic plug joints and a longitudinal joint are provided to accommodate movement of the bridge.

Articulation

The deck is supported on rubber pad type bearings. The simply supported structure is fixed at the south abutment and free at the north abutment with corresponding fixity over the intermediate supports.

Inspection Summary

The structure was found in fair condition. Most defects were fairly typical and minor although a significant amount of new early stage delaminated concrete was noted beneath deck joints.



Inspection Photographs



01 - West elevation



02 - East elevation



Principal Inspection Report for Claydon I/C North (/A14//181.10//) (Authorised)



03 - North bankseat and revetment



04 - South bankseat and revetment



Principal Inspection Report for Claydon I/C North (/A14//181.10//) (Authorised)



05 - North pier



06 - South pier



Principal Inspection Report for Claydon I/C North (/A14//181.10//) (Authorised)



07 - Typical bankseat bearing, North



08 - Typical pier bearing, South



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09 - Main span deck soffit



10 - South side span deck soffit



Principal Inspection Report for Claydon I/C North (/A14//181.10//) (Authorised)



11 - View over Northbound carriageway



12 - View over Southbound carriageway



Principal Inspection Report for Claydon I/C North (/A14//181.10//) (Authorised)



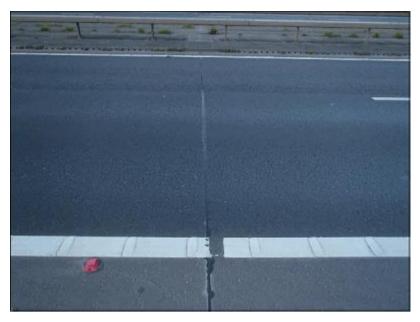
13 - North joint, Northbound



14 - North joint, Southbound



Principal Inspection Report for Claydon I/C North (/A14//181.10//) (Authorised)



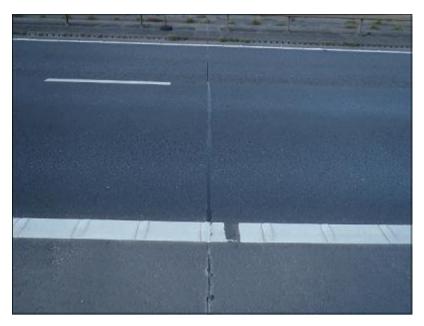
15 - North pier joint, Northbound



16 - North pier joint, Southbound



Principal Inspection Report for Claydon I/C North (/A14//181.10//) (Authorised)



17 - South pier joint, Northbound



18 - South pier joint, Southbound



Principal Inspection Report for Claydon I/C North (/A14//181.10//) (Authorised)



19 - South joint, Northbound



20 - South joint, Southbound



(Authorised)

Observations/Defects Confirmed at this Inspection

Not Applicable		
Components	North Pier - bearing plinth (north piers)	
Defect Type	Cr - Crack of uncertain origin or a combination of causes	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future	
Priority	Medium	
Comments	An obvious crack was noted in the Western most bearing plinth of the North pier. Monitor crack at future inspections.	
Cause	Vandal Action Certainty Medium	
Comment on		
Cause	Crack to bearing plinth on North pier	



(Authorised)

Observations/Defects Confirmed at this Inspection

Substructure		
Components	North Pier - Cross head (north), South Pier - Cross head (south), North Abutment - Abutment Wall for North Abutment, South Abutment - Abutment Wall for South Abutment	
Defect Type Extent Severity Priority Comments	AI - Algal growth SC - Defect present in 5% to not more than 20% of area or length of element D4 - Severe: Defect is clearly causing damage to element or structure Medium The portal piers are heavily stained with algal deposit and scaling. Water seepage is evident on the pier cross beam.	
Cause Comment on Cause	Fixings FailureCertaintyMediumJoint failure above supports.The central reserve drainage gully may also have failed.	
	Water staining at historic site of algal staining, North pier	
	Algal staining to the South bankseat wall	



(Authorised)

	(Autorised)
Observatio	ons/Defects Confirmed at this Inspection
Components	South Pier - Piers / Columns for South Pier, North Pier - Piers / Columns for North Pier
Defect Type	Graf - Graffiti
Extent	SB - Defect present in not more than 5% of area or length of element
Severity	A4 - Defect in offensive condition
Priority	High
Comments	There were two areas of graffiti to pier columns, one was offensive.
	Offensive graffiti to South pier column
	Graffiti to North pier column



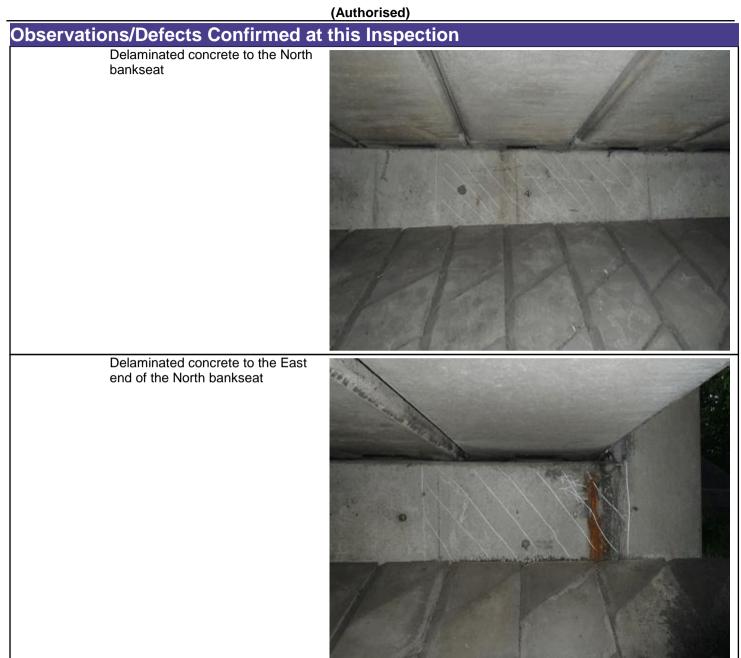
(Authorised)

	(Authorised)	
Observatio	ons/Defects Confirmed at this Inspection	
Components	North Pier - tensioned corrugated beam safety fencing (B1113)	
Defect Type	MissCo - Missing	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D3S - Moderate: Defect may present a danger to the public in the near future	
Priority	Medium	
Comments	There are no connections between the safety fence and the parapets. Presence of full height anchor instead.	
Cause Comment on Cause	Construction Issue Certainty High	
	No connection between parapet and approaching safety barrier, Southwest	
Components	South Abutment - Abutment Wall for South Abutment, South Pier - Cross head (south), North Pier - Cross head (north), North Abutment - Abutment Wall for North Abutment	
Defect Type	Holl - Hollow (delaminated) area	
Extent	SB - Defect present in not more than 5% of area or length of element	
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future	
Priority	Medium	
Comments	Areas of delaminated concrete were noted to the bankseat walls and pier crossheads.	
Cause	Moisture Ingress Certainty High	
Comment on	Water is likely penetrating the deck joints resulting in corrosion to reinforcement of elements directly	
Cause	beneath.	



(Authorised) **Observations/Defects Confirmed at this Inspection** Delaminated concrete and rust staining to the East end of the North pier crosshead Delaminated concrete to the North bankseat

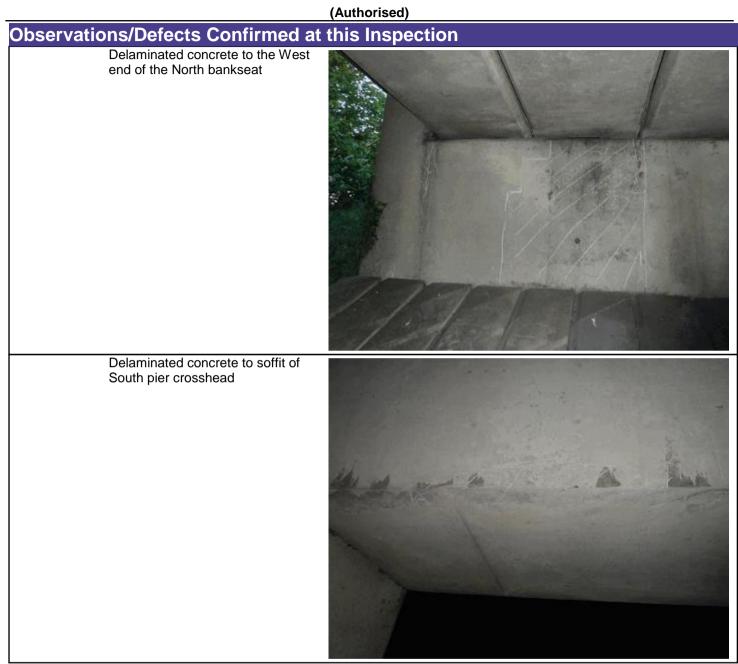






Principal Inspection Report for Claydon I/C North (/A14//181.10//) (Authorised) **Observations/Defects Confirmed at this Inspection** Delaminated concrete to the South bankseat Delaminated concrete to the East end of the South pier crosshead







(Authorised) **Observations/Defects Confirmed at this Inspection** Delaminated concrete to the East end of the South bankseat Components North Abutment - Abutment Wall for North Abutment, South Abutment - Abutment Wall for South Abutment Defect Type Cr - Crack of uncertain origin or a combination of causes Extent SB - Defect present in not more than 5% 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 The South abutment, a number of cracks were noted which are showing damp and rust staining. Comments Delaminated concrete is common adjacent to these cracks. Cracking also noted in the North bankseat wall. Cracking to West end of South bankseat wall surrounded by delaminated concrete



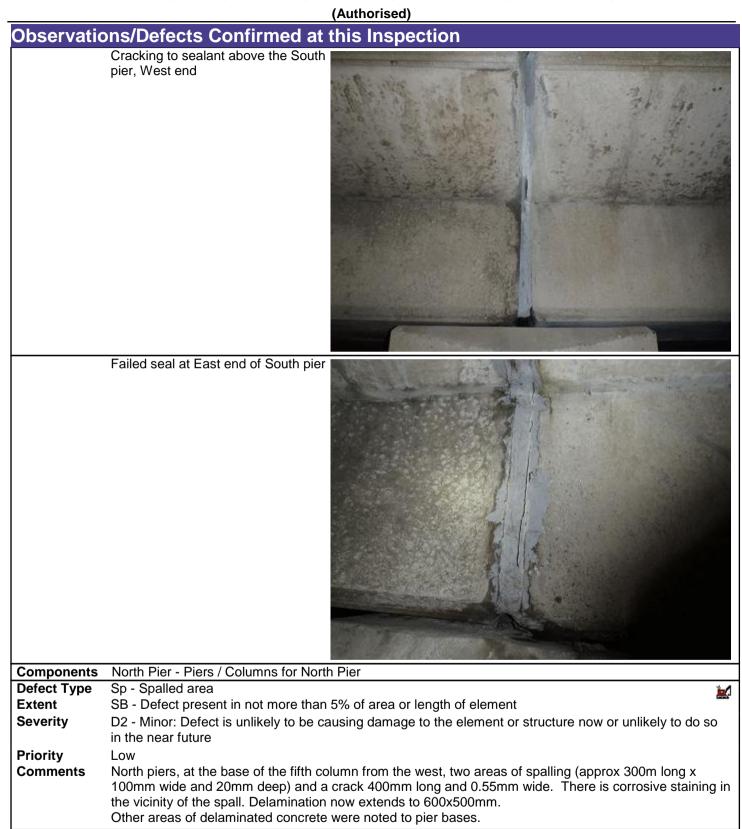
(Authorised) **Observations/Defects Confirmed at this Inspection** Cracking to South bankseat wall with rust staining present Vertical crack towards East end of the South bankseat wall



(Authorised)

	(Authorised)
Observatio	ons/Defects Confirmed at this Inspection
	Cracking and rust staining to the North bankseat
Components	South Pier - Piers / Columns for South Pier
Defect Type	Debo - Debonding
Extent	SB - Defect present in not more than 5% 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 polysulphide joints sealant have degraded and are debonding.
	Damage to seal at West end of the North pier











(Authorised)

	(Authorised)
Observatio	ons/Defects Confirmed at this Inspection
	Typical failed repair, North pier
Components	South Abutment - Abutment Wall for South Abutment
Defect Type	Cr - Crack of uncertain origin or a combination of causes
Extent	SC - Defect present in 5% to not more than 20% of area or length of element
Severity	D1 - Defect is definitely not causing damage to element or structure
Priority	Medium
Comments	Longitudinal crack (approx 6m) at the West end of the South abutment. There is a rusty leak at the East end of that crack. To be monitored. DEFECT REPEATED
Components	South Pier - Piers / Columns for South Pier
Defect Type	
Extent	MissCo - Missing SB - Defect present in not more than 5% of area or length of element
Severity	D1 - Defect is definitely not causing damage to element or structure
Priority	High
Comments	There is no safety fence protection to the south pier portal.
	No safety barrier protection to South
	pier

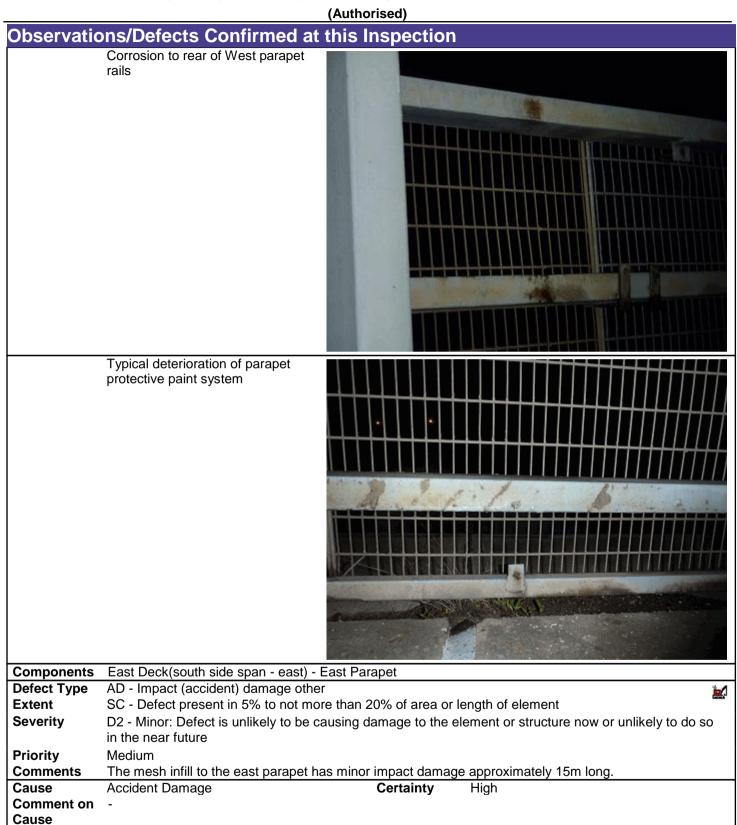


(Authorised)

Observations/Defects Confirmed at this Inspection

Restraint Syste	em		
Components	East Deck (north side span - east) - East Parapet, East Deck(south side span - east) - East Parapet		
Defect Type	MissCo - Missing		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D3S - Moderate: Defect may present a danger to the public in the near future		
Priority	Medium		
Comments	There are no connections between the safety fence and the parapets. Presence of full height anchor instead.		
Cause	Construction Issue Certainty High		
Comment on Cause			
	No connection between parapet and approaching safety barrier, Southwest		
Components	West Deck (north side span - west) - West Parapet, East Deck (north side span - east) - East Parapet, West Deck (south side span - west) - West Parapet, West Deck(main span - west) - West Parapet, East Deck (main span - east) - East Parapet, East Deck(south side span - east) - East Parapet		
Defect Type	PDeg - Other degradation or breakdown		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	P2 - Minor loss of protection likely in the near future		
Priority	Low		
Comments	The parapet rails and posts are subject to loss and general deterioration of the paint system. The infill mesh fixings are suffering from corrosion.		
Cause Comment on Cause	Corrosion Certainty High		







(Authorised)





(Authorised)

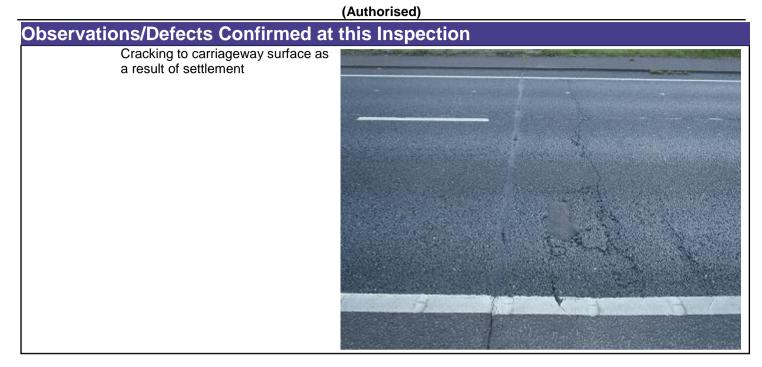
Observations/Defects Confirmed at this Inspection

	ons/Delects Commed at this inspection		
Carriageway			
Components	West Deck(main span - west) - A14 westbound surfacing (replaced Sept 09), West Deck (north side span - west) - A14 westbound surfacing (replaced Sept 09)		
Defect Type	PH - Pothole		
Extent	SB - Defect present in not more than 5% of area or length of element		
Severity	D3S - Moderate: Defect may present a danger to the public in the near future		
Priority	High		
Comments	Potholing and surfacing deterioration is present to the southbound carriageway at North pier		
Cause	Age Expired Certainty High		
Comment on Cause	Lack of binding agent to the aggregate leading to movement of material and breakup of the surfacing.		
	Potholing at the North pier joint in the Southbound carriageway surfacing		
Components	East Deck (main span - east) - Joint 2 east (north verge piers), East Deck (main span - east) - Joint 3 east (south verge piers), West Deck(main span - west) - Joint 3 west (south verge piers), East Deck(south side span - east) - Joint 4 east (south abutment), West Deck (south side span - west) - Joint 4 west (south abutment), West Deck (north side span - west) - Joint 1 (north abutment - west bound), East Deck (north side span - east) - Joint 1 (north abutment - east bound), West Deck(main span - west) - Joint 2 west (north verge piers)		
Defect Type	CrCo - Cracked		
Extent	SC - Defect present in 5% to not more than 20% of area or length of element		
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future		
Priority	High		
Comments	There is no sealant across portions of the saw cuts in the carriageway surfacing above deck joints which may be a point of entrance for water damaging elements below.		
Cause	Maintenance Issue Certainty Medium		
Comment on Cause			



(Authorised) Observations/Defects Confirmed at this Inspection Areas of no sealant in saw cut to surfacing above South pier, Eastbound No sealant across saw cut to carriageway surface above North pier, Westbound Components East Deck (north side span - east) - A14 east bound surfacing (replaced Nov 07) Defect Type CrCo - Cracked SB - Defect present in not more than 5% of area or length of element Extent Severity D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the near future Medium Priority Comments There was cracking in the carriageway on the approach to the North joint (Eastbound). Unable to Determine Certainty Medium Cause **Comment on** Cause







(Authorised)

Observations/Defects Confirmed at this Inspection

	ons/Delects Confirmed at this inspection	
Superstructure		
Components	West Deck (south side span - west) - parapet cantilever, North Abutment - north abutment bearings	
Defect Type	FO - Foreign object	
Extent	SB - Defect present in not more than 5% 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	In the west cantillever at the south end there is an area of corroding ferrous material with a spall, approx	
	60mm diameter. Similar defect in the same area approximately 1m south of the south pier. Also, a small area of exposed	
	corroding steel on the north abutment east end.	
	-	
	Corroding ferrous debris to West edge beam in South side span	
	edge beam in Sodin side span	
	Corroding ferrous debris to West	
	edge beam in South side span	
	adjacent to South abutment	
	and the second	



(Authorised)

Reviewed Mainten	ance Actions confirmed thro	ugh this and outsta	anding from other Inspections	
N.B. The Origin of Work for	each of these Maintenance Actions is Routine	Inspection (currently Principal,	General, Special and Monitoring).	
Maintenance Object	Safety Fence	Maintenance Action	Install	
Estimated Cost	£20,000	Recomm. Action Date	30/09/2014	
Priority Category	2	Risk Score	92	
Comments	Provide safety fence protection to the south pier portal			
Maintenance Object	· · ·	Maintenance Action	Replace	
Estimated Cost	£80,000	Recomm. Action Date	•	
Priority Category	3	Risk Score	70	
Comments	Resurfacing of westbound lane 1 ov	er the entire structure. R	epairs/replacement of burried joint	
	and waterproofing will also be required.			
Maintenance Object	Expansion Joint	Maintenance Action	Replace	
Estimated Cost	£25,000	Recomm. Action Date	30/09/2014	
Priority Category	3	Risk Score	65	
Comments	Investigate cause of water seepage	. If joints are found to lea	k repair joints. Note the defect is	
	likely to occur at the interface of the phased joint replacement works near the central reserve. In			
			may be the cause of water seepage.	
	In addition to the above joint repairs			
Maintenance Object	Concrete	Maintenance Action	Repair	
Estimated Cost	£2,000	Recomm. Action Date		
Priority Category	3	Risk Score	61	
Comments	-			
	Investigate cause of longitudinal crack to South abutment. If crack is stable, resin inject to prevent corrosion to reinforcement			
Maintenance Object	Pier/Column	Maintenance Action	Repair	
Estimated Cost	£1,000	Recomm. Action Date	01/04/2016	
Priority Category	3	Risk Score	41	
Comments	Undertake minor concrete repair to			
Maintenance Object	•	Maintenance Action	Repair	
Estimated Cost	£1,000	Recomm. Action Date	•	
Priority Category	3	Risk Score	25	
Comments	Remove corroding objects and repair spalling on the west deck cantillever soffit.			
Maintenance Object		Maintenance Action	Paint	
Estimated Cost	£6,000	Recomm. Action Date		
Priority Category	3	Risk Score	25	
Comments	Localised paint repairs to parapet		20	
Maintenance Object	· · · · · ·	Maintenance Action	Replace	
Estimated Cost	£2,000	Recomm. Action Date		
Priority Category	3	Risk Score	25	
Comments	Replace deformed mesh infill east p		20	
Maintenance Object		Maintenance Action	Repair	
Estimated Cost	£500	Recomm. Action Date	•	
Priority Category	3	Risk Score	25	
Comments	Replace missing slab on the north re		20	
Unreviewed Maint' Actions confirmed through this and outstanding from other Inspections N.B. The Origin of Work for each of these Maintenance Actions is Routine Inspection (currently Principal, General, Special and Monitoring).				
Maintenance Object		Maintenance Action	Repair	
Estimated Cost	£30,000	Recomm. Action Date		
Comments	Repair areas of delaminated concre	te caused by reinforcem	ent corrosion.	

Additions to the next Routine Maintenance

Comments

Remove graffiti and minor vegetation as part of routine maintenance.



Principal Inspection Report for Claydon I/C North (/A14//181.10//)

(Authorised)

Outstanding Observations/Defects NOT Confirmed at this Inspection

Restraint Syste	m
Components	West Deck (south side span - west) - West Parapet, East Deck (main span - east) - East Parapet, East Deck(south side span - east) - East Parapet, West Deck (north side span - west) - West Parapet, West Deck(main span - west) - West Parapet
Defect Type	MissCo - Missing
Extent	SB - Defect present in not more than 5% 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	Medium Emergency? No
No. of images	
Comments	Parapet Defects identified during SMIS Capture exercise but not viewed during 2004 GI due to H & S including
	Bolt fixings - inspect all fixings and tighten loose bolts
	Parapet Fixings near north end
	Clean Parapet
	General Paint Loss
	Joint Sealant to Parapet edge beams
Components	West Deck (south side span - west) - West Parapet, East Deck(south side span - east) - East Parapet, West Deck(main span - west) - West Parapet, East Deck (north side span - east) - East Parapet, East Deck (main span - east) - East Parapet, West Deck (north side span - west) - West Parapet
Defect Type	Deg - Degraded
Extent	SB - Defect present in not more than 5% 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 Emergency? No
No. of images	0 Date last confirmed 15/06/2010
Comments	IAN 97/07 Assessment - Monitor parapet condition in future PI/GI inspections.
Carriageway	
Components	West Deck (north side span - west) - Waterproofing (West deck)
Defect Type	
Extent	Debo - Debonding SB - Defect present in not more than 5% of area or length of element
Severity	D3 - Moderate: Defect is probably causing damage to element or structure, or is likely to do so in the
Ocventy	near future
Priority	Medium Emergency? No
No. of images	
Comments	The waterproofing membrane to the areas exposed during pothole patch repairs was found to be
Comments	debonded from the substrate and was subsequently removed to allow bonding of the surfacing. This has
	left the concrete deck exposed to the ingress of chlorides through water ingress.
Watercourses a	nd Earthworks
Components	North Abutment - north revetment
Defect Type	North Abutment - north revetment MissCo - Missing
Defect Type Extent	North Abutment - north revetment MissCo - Missing SB - Defect present in not more than 5% of area or length of element
Defect Type Extent Severity	North Abutment - north revetment MissCo - Missing SB - Defect present in not more than 5% of area or length of element D1 - Defect is definitely not causing damage to element or structure
Defect Type Extent Severity Priority	North Abutment - north revetment MissCo - Missing SB - Defect present in not more than 5% of area or length of element D1 - Defect is definitely not causing damage to element or structure Low Emergency?
Defect Type Extent Severity	North Abutment - north revetment MissCo - Missing SB - Defect present in not more than 5% of area or length of element D1 - Defect is definitely not causing damage to element or structure Low Emergency?



Principal Inspection Report for Claydon I/C North (/A14//181.10//)

(Authorised)

Reviewed Maintenance Actions from sources other than Inspections

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

Maintenance Object Waterproofing Origin of Work **Estimated Cost Priority Category** 3 Comments

Incident £40,000 Maintenance Action

Replace

Recomm. Action Date 30/09/2014 **Risk Score** 65

Repair areas of debonded/delaminated waterproofing whilst carrying out resurfacing operations.

Unreviewed Maintenance Actions from sources other than Inspections

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

No other maintenance actions outstanding

Other Planned Inspections

N.B. These are the planned inspections in SMIS at the time of report production (Tuesday, 5 January, 2016), NOT at the time of the inspection.

Туре	Target Date	Reason
Special	31/03/2006	Expansion joints have failed resulting in long term contamination of underlying structure.
		Waterproofing membrane probable failure.
Special	01/07/2013	Mesh damage only to the westbound parapet.
General	23/07/2016	
General	23/07/2018	
Principal	23/07/2020	

Annex 1

Structure Report



WARNING - Asbestos is present. Be familiar with SMIS Help Guide and the AAP, follow your own safe working procedures.

Structure Summary	/ key 9942		
Road	A14	O.S. Grid Ref East/North	612890 / 249610
Commissioned	1975	Constructed	1975
Maintaining Agent-Area	Amey - Area 6-Area 6		
Geographical Area	Suffolk	Custodian-Region	HA-East
Designer	Eastern Rcu		
Last Principal Inspection	20/05/2015	Last General Inspection	20/06/2012
PI Frequency (years)	6		
<u> </u>	Bridge And Large Culvert		
Structure Type	Driuge And Large Curvert		
Bridge Type	Highway Underbridge		
		Heavy Load Route	No
Bridge Type	Highway Underbridge	Heavy Load Route DBFO	No No
Bridge Type High Load Route	Highway Underbridge No	•	-
Bridge Type High Load Route Scour Susceptible	Highway Underbridge No No	•	-
Bridge Type High Load Route Scour Susceptible Original Design Loading	Highway Underbridge No HA + 45 HB	DBFO	No

Description of Structure

The structure is a simply supported three span underbridge and carries the A14, two lane, dual carriageway all purpose trunk road and two verges over the B1113 interchange through the centre span.

The bridge has two side spans of 9.0m and a main span of 14.25m and an overall width of 31.45m. The bridge is square to the A14.

The bridge comprises a cast in situ reinforced concrete top slab and 28no. type M1 precast prestressed beams with precast prestressed concrete type B2 box edge beams supported by cast in situ reinforced concrete bank seat abutments and two intermediate cast in situ reinforced concrete multiple leg portal piers. The bankseats and piers are founded on spread foundations. Flying wingwalls are cantilevered from the back of the bank seats. The deck has a longitudinal joint.

The dual 2 lane A14 on the bridge has carriageways 9.3m wide with 1m wide verges and a 9.9m wide central reserve. Asphaltic plug joints and a longitudinal joint are provided to accommodate movement of the bridge.

Articulation

The deck is supported on rubber pad type bearings. The simply supported structure is fixed at the south abutment and free at the north abutment with corresponding fixity over the intermediate supports.

Load Managemen	t for C&U and STGO Live Loading		
Location	All Traffic Lanes	Direction	Both
ALL	40/44 tonnes (Assessment)		
HB with LL	45 (Assessment)	HB without LL	
SV with LL	· · · · ·	SV without LL	



Assessments, Inspection and Maintenance History				
Completed Inspection				
Inspection Type	Inspection Date	Inspection Reason		
Principal Inspection	20/05/2015			
General Inspection	20/06/2012			
Special Inspection (Special Inspection following incident)	17/01/2011	Potholes appearing to the surfacing		
General Inspection	15/06/2010			
Special Inspection (IAN 97/07 Assessment)	28/07/2009	Special Inspection to record IAN 97/07 results.		
Principal Inspection	28/04/2009			
Special Inspection (Resilience assessment)	06/01/2009	Special inspection for initial resilience assessment.		
General Inspection	31/05/2006			
General Inspection	13/06/2004			
Principal Inspection	23/07/2002			
General Inspection	17/09/1998			
Principal Inspection	14/08/1996			
General Inspection	08/09/1994			
General Inspection	18/03/1993			
Principal Inspection	03/12/1990			
General Inspection	01/10/1986			
Principal Inspection	01/02/1982			
General Inspection	01/09/1980			

Completed Assessments

Assessment Type	Assessment Date
Parapet Assessment	03/02/2006
40 Tonne Assessment	19/08/1996

Maintenance	Maintenance Actions Completed Through Projects Created In SMIS					
Maintenance Object	Maintenance Action	Date Completed	Comments	Project Name		
Expansion Joint	Repair	23/09/2009	Replace longitudinal joint to prevent further contamination.	A14 Claydon Waterproofing W/B.		
Surfacing	Repair	23/09/2009	Repair damaged surfacing if waterproofing work is likely to be delayed.	A14 Claydon Waterproofing W/B.		
Expansion Joint	Replace	23/09/2009	Replace joints in westbound carriageway to prevent further damage to the crossheads.	A14 Claydon Waterproofing W/B.		
Waterproofing	Replace	23/09/2009	Westbound carriageway - replace age expired waterproofing that has shown evidence of failure	A14 Claydon Waterproofing W/B.		
Expansion Joint	Replace	01/12/2007	Replace failed expansion joints to eastbound carriageway	A14 CLAYDON WATERPROOFING		
Waterproofing	Replace	01/12/2007	Eastbound carriageway - replace age expired waterproofing	A14 CLAYDON WATERPROOFING		



Additional Maintenance History

May 2010 - Birse provided saw cut and seal to previous location of surfacing/expansion joint repair..September 2009 -Waterproofing Part 2 Westbound - under the Area 6 MAC Contract Atkins sub-contracted this scheme to Jacksons Civil Engineering. The scope of the scheme was to replace the waterproofing membrane, expansion joints, surfacing, install a combined kerb drain system and a sub-surface drainage system; all to the westbound carriageway only. In this scheme the waterproofing was replaced with a Pitchmastic PMB membrane, the expansion joints were replaced with Pitchmastic BP1 Buried joints, and shallow Envirokerb and Dri-deck sub-surface drainage systems were installed. November 2008 - Birse carried out a surfacing repair over the eastbound north pier expansion joint following pothole at expansion joint location. Bridging plate had been displaced, possibly from surfacing operations, plate replaced and fixed in position.November 2007 - Waterproofing Part 1 Eastbound - Birse Civils Limited replaced the waterproofing membrane, expansion joints, polysulphide joints, surfacing and installed Hydrodeck kerb drainage units to the eastbound carriageway only. As part of the works the centre reserve was partially hardened to allow maintenance of two narrow lanes during peak time working. The expansion joints were replaced with Sentinel buried joints and the waterproofing membrane with Stirling Lloyd Eliminator. October 2010 - Ducting added to external face of westbound parapet beam for comms cables for A14 VMS contract.

Features

North Side Span has Natural Ground (Eg Valley) running under it maintained by Highways Agency

Main Span has Lane 2 of the Main Carriageway of an unspecified road running under it with a headroom of 5.68 metres which was last checked on 20/05/2015 maintained by Suffolk County Council reference B1113

Main Span has Lane 1 of the Main Carriageway of an unspecified road running under it with a critical headroom of 5.63 metres which was last checked on 20/05/2015 maintained by Suffolk County Council reference B1113

South Side Span has Natural Ground (Eq Valley) running under it maintained by Highways Agency

West Parapet has some unknown services fixed to it maintained by Highways Agency

West Parapet has some unknown services fixed to it maintained by Highways Agency

West Parapet has some unknown services fixed to it maintained by Highways Agency

Bridge and Large Culvert has Lane 2 of the Main Carriageway of the road A14 (Downlink) running over it maintained by Highways Agency reference Northbound.

Bridge and Large Culvert has an Electricity service

Bridge and Large Culvert has Lane 1 of the Main Carriageway of the road A14 (Uplink) running over it maintained by Highways Agency reference Southbound.

Bridge and Large Culvert has Lane 2 of the Main Carriageway of the road A14 (Uplink) running over it maintained by Highways Agency reference Southbound.

Bridge and Large Culvert has Lane 1 of the Main Carriageway of the road A14 (Downlink) running over it maintained by Highways Agency reference Northbound.

Interim Measures

No interim measures present

Constraints					
Component	Туре	Name	Description		
Claydon I/C North	Environmental/Heritage	Protected Species W&CA - Flora	Interchange roundabout		
Claydon I/C North	Materials	Crocidolite	Asbestos cement permanent shutting		

Departures		
Departure No.	Standard Departed From	Status
	1700 - Aspects not covered : Specification, Structures SHW, MCHW VOL 1 Series 1700 Structural Concrete	Approved with comments

Coating System for Steelwork

No Coating Systems for Steelworks present



Coating System for Concrete

No Concrete Coating Systems Present



Inventory

N.B. Inspection Elements are added for Inspection purposes only. They are shown here for information only, and it should be noted that the list of Inspection elements is not comprehensive.

North Abutment Support Type			
	Bank Seat	Material Type	Insitu Reinforced Concrete
Connection Type	Proprietary Elastomeric Bearings	Facing Material	None
••	Tophetary Elastomene Dealings		None
Foundation 1			
Туре	Spread Footings		
north revetment			
Туре	Surface		
	Currato		
north east wingwall			
Anchoring System	Sub Surface	Length	
		Height	
north west wingwall			
Anchoring System	Sub Surface	Length	
		Height	
bearing shelf (north)	Insitu Mass Concrete		
Material Type	Insitu Mass Concrete		
ballast wall (north) - (In			
Туре	BAL - Ballast wall		
north abutment bearing			
Туре	Elastomeric	Installation Date	01/01/1975
Product		No. of Bearings	30
north embankment - (Ir	spection Element)		
Туре	EMB - Embankment or adjacent earthy	works	
	,		
Abutment Wall for Nort			
Support Type	Bank Seat	Material Type	Insitu Reinforced
		Material Type Facing Material	Insitu Reinforced None
Support Type	Bank Seat		
Support Type	Bank Seat		
Support Type Connection Type	Bank Seat Proprietary Elastomeric	Facing Material	
Support Type Connection Type North Side Span	Bank Seat Proprietary Elastomeric	Facing Material	None
Support Type Connection Type North Side Span Structural Form Type	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface	Facing Material Skew	None
Support Type Connection Type North Side Span Structural Form Type Min Width Between	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface	Facing Material Skew Date Min Width Last	None
Support Type Connection Type North Side Span Structural Form Type Min Width Between Supports	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface	Facing Material Skew Date Min Width Last Checked Critical Headroom	None
Support Type Connection Type North Side Span Structural Form Type Min Width Between Supports Features Data	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface	Facing Material Skew Date Min Width Last Checked	None
Support Type Connection Type North Side Span Structural Form Type Min Width Between Supports Features Data Critical Headroom	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface 7.00	Facing Material Skew Date Min Width Last Checked Critical Headroom	None
Support Type Connection Type North Side Span Structural Form Type Min Width Between Supports Features Data Critical Headroom	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface 7.00	Facing Material Skew Date Min Width Last Checked Critical Headroom Last Checked	None 0.00
Support Type Connection Type North Side Span Structural Form Type Min Width Between Supports Features Data Critical Headroom East Deck (north side s Structure Form Type	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface 7.00 span - east) Simply Supported	Facing Material Skew Date Min Width Last Checked Critical Headroom Last Checked Length	None 0.00 9.00
Support Type Connection Type North Side Span Structural Form Type Min Width Between Supports Features Data Critical Headroom East Deck (north side s Structure Form Type Construction Type	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface 7.00 Span - east) Simply Supported Beam And Slab	Facing Material Skew Date Min Width Last Checked Critical Headroom Last Checked Length Width	None 0.00 9.00 15.72
Support Type Connection Type North Side Span Structural Form Type Min Width Between Supports Features Data Critical Headroom East Deck (north side s Structure Form Type Construction Type Enclosure Type	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface 7.00 Simply Supported Beam And Slab Void Inaccessible	Facing Material Skew Date Min Width Last Checked Critical Headroom Last Checked Length Width Construction Date	None 0.00 9.00
Support Type Connection Type North Side Span Structural Form Type Min Width Between Supports Features Data Critical Headroom East Deck (north side s Structure Form Type Construction Type Enclosure Type Material Type	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface 7.00 Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete	Facing Material Skew Date Min Width Last Checked Critical Headroom Last Checked Length Width Construction Date Material Name	None 0.00 9.00 15.72 01/01/1975 PRIMARY
Support Type Connection Type North Side Span Structural Form Type Min Width Between Supports Features Data Critical Headroom East Deck (north side s Structure Form Type Construction Type Enclosure Type Material Type	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface 7.00 Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete Insitu Reinforced Concrete	Facing Material Skew Date Min Width Last Checked Critical Headroom Last Checked Length Width Construction Date	None 0.00 9.00 15.72 01/01/1975
Support Type Connection Type North Side Span Structural Form Type Min Width Between Supports Features Data Critical Headroom East Deck (north side s Structure Form Type Construction Type Enclosure Type Material Type Material Type Joint 1 (north abutmen	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface 7.00 Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete Insitu Reinforced Concrete t - east bound)	Facing Material Skew Date Min Width Last Checked Critical Headroom Last Checked Length Width Construction Date Material Name Material Name	None 0.00 9.00 15.72 01/01/1975 PRIMARY SECONDARY
Support Type Connection Type North Side Span Structural Form Type Min Width Between Supports Features Data Critical Headroom East Deck (north side s Structure Form Type Construction Type Enclosure Type Material Type	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface 7.00 Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete Insitu Reinforced Concrete	Facing Material Skew Date Min Width Last Checked Critical Headroom Last Checked Length Width Construction Date Material Name Material Name Installation Date	None 0.00 9.00 15.72 01/01/1975 PRIMARY SECONDARY 26/11/2007
Support Type Connection Type North Side Span Structural Form Type Min Width Between Supports Features Data Critical Headroom East Deck (north side s Structure Form Type Construction Type Enclosure Type Material Type Material Type Joint 1 (north abutmen	Bank Seat Proprietary Elastomeric Beam/Girder - At/Below Deck Surface 7.00 Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete Insitu Reinforced Concrete t - east bound)	Facing Material Skew Date Min Width Last Checked Critical Headroom Last Checked Length Width Construction Date Material Name Material Name	None 0.00 9.00 15.72 01/01/1975 PRIMARY SECONDARY



East Parapet			
Location	Deck Edge	Installation Date	01/01/1975
Form	Vehicle Parapet	Modified	Not Modified
Designer	BSC (Steel)	Modification Date	
M'facturer/Fabricator	BSC (Steel)	Nominal Height	1
Baco Parapet Type	Not Applicable	Modification Date	
Barrier Type	Other	(Baco post only)	
Material Infill	Mesh Infill	Primary Material	Steel
Cont Perf Class	Not Applicable	Parapet Group	P2(113)
Safety Fence Approac		Working Width	Not Applicable
Protection System	Ν	Safety Fence Departure	N
Protection Reason	Not Applicable	Protection System	Ν
BA 37/92 Ranking Dat		·	
Assessed	Υ	Assessed Date	31/03/2002
Contain Capacity Req	Normal	Containment Ranking	1.00
Containment Basis	Not Applicable		-
Risk Features Below	1.00	Risk Highway Carried Out	3.00
Risk Layout	0.00	Risk Containment Features	0.00
Risk Ranking	4.00	Priority Ranking	4.00
<u> </u>			
	ng (replaced Nov 07) - (Inspection El	ement)	
Туре	SUR - Carriageway surfacing		
Box beam concrete eas	t		
Shape	Box	Strengthening Type	Not Known
Туре	Precast Hollow	Edge Beam?	Y
Material	Precast Prestressed Concrete		
	blaced Nov 07) - (Inspection Element) LNJ - Longitudinal joint		
Туре	LINJ - Longituginal joint		
parapet cantilever east	* <i>i</i>		
parapet cantilever east	- (Inspection Element)		
Туре	* <i>i</i>		
	- (Inspection Element) EDG - Edge beam or edge cantilever		
Туре	- (Inspection Element) EDG - Edge beam or edge cantilever Slab Flat	Туре	Solid
Type Slab	- (Inspection Element) EDG - Edge beam or edge cantilever	Type StrengtheningType	Solid Not Known
Type Slab Form Material	- (Inspection Element) EDG - Edge beam or edge cantilever Slab Flat Insitu Reinforced Concrete		
Type Slab Form Material West Deck (north side s	- (Inspection Element) EDG - Edge beam or edge cantilever Slab Flat Insitu Reinforced Concrete span - west)	StrengtheningType	Not Known
Type Slab Form Material West Deck (north side s Structure Form Type	- (Inspection Element) EDG - Edge beam or edge cantilever Slab Flat Insitu Reinforced Concrete span - west) Simply Supported	StrengtheningType Length	Not Known 9.00
Type Slab Form Material West Deck (north side s Structure Form Type Construction Type	- (Inspection Element) EDG - Edge beam or edge cantilever Slab Flat Insitu Reinforced Concrete span - west) Simply Supported Beam And Slab	StrengtheningType Length Width	Not Known 9.00 15.72
Type Slab Form Material West Deck (north side s Structure Form Type Construction Type Enclosure Type	- (Inspection Element) EDG - Edge beam or edge cantilever Slab Flat Insitu Reinforced Concrete span - west) Simply Supported Beam And Slab Void Inaccessible	StrengtheningType Length Width Construction Date	Not Known 9.00 15.72 01/01/1975
Type Slab Form Material West Deck (north side s Structure Form Type Construction Type Enclosure Type Material Type	- (Inspection Element) EDG - Edge beam or edge cantilever Slab Flat Insitu Reinforced Concrete span - west) Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete	StrengtheningType Length Width Construction Date Material Name	Not Known 9.00 15.72 01/01/1975 PRIMARY
Type Slab Form Material West Deck (north side s Structure Form Type Construction Type Enclosure Type Material Type Material Type	- (Inspection Element) EDG - Edge beam or edge cantilever Slab Flat Insitu Reinforced Concrete span - west) Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete Insitu Reinforced Concrete	StrengtheningType Length Width Construction Date	Not Known 9.00 15.72 01/01/1975
Type Slab Form Material West Deck (north side s Structure Form Type Construction Type Enclosure Type Material Type Material Type Joint 1 (north abutment	- (Inspection Element) EDG - Edge beam or edge cantilever Slab Flat Insitu Reinforced Concrete span - west) Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete Insitu Reinforced Concrete t - west bound)	StrengtheningType Length Width Construction Date Material Name Material Name	Not Known 9.00 15.72 01/01/1975 PRIMARY SECONDARY
Type Slab Form Material West Deck (north side s Structure Form Type Construction Type Enclosure Type Material Type Material Type	- (Inspection Element) EDG - Edge beam or edge cantilever Slab Flat Insitu Reinforced Concrete span - west) Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete Insitu Reinforced Concrete	StrengtheningType Length Width Construction Date Material Name Material Name	Not Known 9.00 15.72 01/01/1975 PRIMARY SECONDARY 23/09/2009
Type Slab Form Material West Deck (north side s Structure Form Type Construction Type Enclosure Type Material Type Material Type Joint 1 (north abutment	- (Inspection Element) EDG - Edge beam or edge cantilever Slab Flat Insitu Reinforced Concrete span - west) Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete Insitu Reinforced Concrete t - west bound)	StrengtheningType Length Width Construction Date Material Name Material Name	Not Known 9.00 15.72 01/01/1975 PRIMARY SECONDARY



West Parapet			
Location	Deck Edge	Installation Date	01/01/1975
Form	Vehicle Parapet	Modified	Not Modified
Designer	BSC (Steel)	Modification Date	
M'facturer/Fabricator	B S C (Steel)	Nominal Height	1
Baco Parapet Type	Not Applicable	Modification Date	1
	Other	(Baco post only)	
Barrier Type			Chaol
Material Infill	Mesh Infill	Primary Material	Steel
Cont Perf Class	Not Applicable	Parapet Group	P2(113)
Safety Fence Approac		Working Width	Not Applicable
Protection System	Ν	Safety Fence Departure	Ν
Protection Reason	Not Applicable	Protection System	Ν
BA 37/92 Ranking Dat			
Assessed	Y	Assessed Date	31/03/2002
Contain Capacity Req	Normal	Containment Ranking	1.00
Containment Basis	Not Applicable		
Risk Features Below	1.00	Risk Highway Carried Out	3.00
Risk Layout	0.00	Risk Containment Features	0.00
Risk Ranking	4.00	Priority Ranking	4.00
_			
	al sub-surface drainage system, insta	alled '09 - (Inspection Elemen	3)
Туре	CRV - Central reserve		
longitudinal isint (here	nantion Flomout		
longitudinal joint - (Ins	· · · · · · · · · · · · · · · · · · ·		
Туре	LNJ - Longitudinal joint		
double sided open box	beam		
Location	Verge	Installation Date	
Form	Safety Barrier	Modified	Modification Status
	Not Known		would alon slaws
Designer		Modification Date	Not Specified
	Not Known	Nominal Height	Not Specified
Baco Parapet Type	Not Applicable	Modification Date	
Barrier Type	DROBB	(Baco post only)	
Material Infill	No Infill	Primary Material	Not Known
Cont Perf Class	Not Applicable	Parapet Group	Not Applicable
Safety Fence Approac		Working Width	Not Applicable
Protection System	N	Safety Fence Departure	Ν
Protection Reason	Not Applicable	Protection System	Ν
BA 37/92 Ranking Dat	a		
Assessed		Assessed Date	
Contain Capacity Req	Not Specified	Containment Ranking	
Containment Basis	Not Known		
Risk Features Below		Risk Highway Carried Out	
Risk Layout		Risk Containment Features	
Risk Ranking	0.00	Priority Ranking	0.00
	ing (replaced Sept 09) - (Inspection E	lement)	
Туре	SUR - Carriageway surfacing		
Por hoom concrete we	ot		
Box beam concrete we		Other athen in a Trans	NetKreuw
Shape	Box	Strengthening Type	Not Known
Туре	Precast Hollow	Edge Beam?	Y
Material	Precast Prestressed Concrete		
parapet cantilever west	t - (Inspection Element)		
Туре			
	EDG - Edge beam or edge cantilever		
i î he	EDG - Edge beam or edge cantilever		



Slab			
Form	Slab Flat	Туре	Solid
Material	Insitu Reinforced Concrete	StrengtheningType	Not Known
North Dian			
North Pier Support Type	Concrete Frame	Connection Type	Bropriotory Electomoria
Assessment Data	Concrete Frame	Connection Type	Proprietary Elastomeric
Strengthening	Ν	Permanent Protection	N
Completed		r ermanent i rotection	N
Construction Date			
Foundation Type	Spread Footings		
	peam safety fencing - (Inspection Eler	nent)	
Туре	FEN - Fender		
Cross head (north)			
Material	Insitu Reinforced Concrete	Height	
		Length	
		Width	
bearing plinth (north pi			
Material Type	Insitu Mass Concrete		
tensioned corrugated b	peam safety fencing (B1113) - (Inspec	tion Element)	
Туре	FEN - Fender		
Dearing 2 (north yorgo	niero cide onon		
Bearing 2 (north verge	Elastomeric	Installation Date	01/01/1981
Type Product	Elasiomenic	No. of Bearings	30
		No. of Bearings	50
Bearing 3 (north verge			
Туре	Elastomeric	Installation Date	01/01/1981
Product		No. of Bearings	30
Piers / Columns for No	rth Pier		
Support Type	Concrete Frame	Connection Type	Proprietary
Main Span			
	Beam/Girder - At/Below Deck Surface	Skew	0.00
Min Width Between	14.25	Date Min Width Last	0.00
Supports		Checked	
Features Data			
Critical Headroom		Critical Headroom	
		Last Checked	
East Deck (main span -	east)		
Structure Form Type		Length	14.30
Construction Type	Beam And Slab	Width	14.25
Enclosure Type	Void Inaccessible	Construction Date	01/01/1975
Material Type	Precast Prestressed Concrete	Material Name	PRIMARY
Material Type	Insitu Reinforced Concrete	Material Name	SECONDARY
Joint 2 east (north verg	e piers)		
Type	Buried Joint(Continuous Surfacing)	Installation Date	26/11/2007
	()	No. of Joints	1
Product	Stirling Lloyd Sentinel B20		
-	¥ .		



Joint 3 east (south verg	ge piers)		
Туре	Buried Joint(Continuous Surfacing)	Installation Date	26/11/2007
		No. of Joints	1
Product	Stirling Lloyd Sentinel B15		
East Parapet			
Location	Deck Edge	Installation Date	01/01/1975
Form	Vehicle Parapet	Modified	Not Modified
Designer	B S C (Steel)	Modification Date	
M'facturer/Fabricator	B S C (Steel)	Nominal Height	1
Baco Parapet Type	Not Applicable	Modification Date	
Barrier Type	Other	(Baco post only)	
Material Infill	Mesh Infill	Primary Material	Steel
Cont Perf Class	Not Applicable	Parapet Group	P2(113)
Safety Fence Approac		Working Width	Not Applicable
Protection System	N	Safety Fence Departure	N
Protection Reason	Not Applicable	Protection System	N
BA 37/92 Ranking Dat		Accord Data	24/02/2002
Assessed	Y	Assessed Date	31/03/2002
Contain Capacity Req		Containment Ranking	1.00
Containment Basis Risk Features Below	Not Applicable 1.00	Risk Highway Carried Out	3.00
Risk Layout	0.00	Risk Containment Features	0.00
Risk Ranking	4.00	Priority Ranking	4.00
			4:00
	ng (replaced Nov 07) - (Inspection El	ement)	
Туре	SUR - Carriageway surfacing		
Box beam concrete eas			
DUX Deam concrete eas	51		
Shape	Box	Strengthening Type	Overspan Slab
		Strengthening Type Edge Beam?	Overspan Slab Y
Shape	Box		
Shape Type Material	Box Precast Hollow Precast Prestressed Concrete		
Shape Type Material longditudinal joint (repl	Box Precast Hollow Precast Prestressed Concrete laced Nov 07) - (Inspection Element)		
Shape Type Material Iongditudinal joint (rep Type	Box Precast Hollow Precast Prestressed Concrete aced Nov 07) - (Inspection Element) LNJ - Longitudinal joint		
Shape Type Material longditudinal joint (rep Type parapet cantilever - (Ins	Box Precast Hollow Precast Prestressed Concrete laced Nov 07) - (Inspection Element) LNJ - Longitudinal joint spection Element)		
Shape Type Material Iongditudinal joint (rep Type	Box Precast Hollow Precast Prestressed Concrete aced Nov 07) - (Inspection Element) LNJ - Longitudinal joint		
Shape Type Material longditudinal joint (rep Type parapet cantilever - (Ins	Box Precast Hollow Precast Prestressed Concrete laced Nov 07) - (Inspection Element) LNJ - Longitudinal joint spection Element)		
Shape Type Material longditudinal joint (repl Type parapet cantilever - (Ins Type	Box Precast Hollow Precast Prestressed Concrete laced Nov 07) - (Inspection Element) LNJ - Longitudinal joint spection Element)		
Shape Type Material longditudinal joint (repl Type parapet cantilever - (Ins Type Slab	Box Precast Hollow Precast Prestressed Concrete Acced Nov 07) - (Inspection Element) LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever	Edge Beam?	Υ
Shape Type Material longditudinal joint (rep Type parapet cantilever - (Ins Type Slab Form Material	Box Precast Hollow Precast Prestressed Concrete Acced Nov 07) - (Inspection Element) LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete	Edge Beam?	Y
Shape Type Material longditudinal joint (repl Type parapet cantilever - (Ins Type Slab Form Material West Deck(main span -	Box Precast Hollow Precast Prestressed Concrete Acced Nov 07) - (Inspection Element) LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete west)	Edge Beam? Type StrengtheningType	Y Solid Not Known
Shape Type Material longditudinal joint (rep Type parapet cantilever - (Ins Type Slab Form Material West Deck(main span - Structure Form Type	Box Precast Hollow Precast Prestressed Concrete Acced Nov 07) - (Inspection Element) LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete west) Simply Supported	Edge Beam? Type StrengtheningType Length	Y Solid Not Known 14.30
Shape Type Material longditudinal joint (repl Type parapet cantilever - (Ins Type Slab Form Material West Deck(main span - Structure Form Type Construction Type	Box Precast Hollow Precast Prestressed Concrete Aced Nov 07) - (Inspection Element) LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete west) Simply Supported Beam And Slab	Edge Beam? Type StrengtheningType Length Width	Y Solid Not Known 14.30 14.25
Shape Type Material longditudinal joint (rep Type parapet cantilever - (Ins Type Slab Form Material West Deck(main span - Structure Form Type Construction Type Enclosure Type	Box Precast Hollow Precast Prestressed Concrete Acced Nov 07) - (Inspection Element) LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete west) Simply Supported Beam And Slab Void Inaccessible	Edge Beam? Type StrengtheningType Length	Y Solid Not Known 14.30
Shape Type Material longditudinal joint (rep Type parapet cantilever - (Ins Type Slab Form Material West Deck(main span - Structure Form Type Construction Type Enclosure Type Joint 2 west (north verg	Box Precast Hollow Precast Prestressed Concrete Acced Nov 07) - (Inspection Element) LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete west) Simply Supported Beam And Slab Void Inaccessible	Edge Beam? Type StrengtheningType Length Width Construction Date	Y Solid Not Known 14.30 14.25 01/01/1975
Shape Type Material longditudinal joint (rep Type parapet cantilever - (Ins Type Slab Form Material West Deck(main span - Structure Form Type Construction Type Enclosure Type	Box Precast Hollow Precast Prestressed Concrete Acced Nov 07) - (Inspection Element) LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete west) Simply Supported Beam And Slab Void Inaccessible	Edge Beam? Type StrengtheningType Length Width Construction Date Installation Date	Y Solid Not Known 14.30 14.25 01/01/1975 23/09/2009
Shape Type Material longditudinal joint (repl Type parapet cantilever - (Ins Type Slab Form Material West Deck(main span - Structure Form Type Construction Type Enclosure Type Joint 2 west (north verg Type	Box Precast Hollow Precast Prestressed Concrete Acced Nov 07) - (Inspection Element) LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete west) Simply Supported Beam And Slab Void Inaccessible Simply Supported Beam And Slab	Edge Beam? Type StrengtheningType Length Width Construction Date	Y Solid Not Known 14.30 14.25 01/01/1975
Shape Type Material longditudinal joint (rep Type parapet cantilever - (Ins Type Slab Form Material West Deck(main span - Structure Form Type Construction Type Enclosure Type Joint 2 west (north verg Type Product	Box Precast Hollow Precast Prestressed Concrete Acced Nov 07) - (Inspection Element) LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete west) Simply Supported Beam And Slab Void Inaccessible Simply Supported Beam And Slab Void Inaccessible Simply Supported Beam And Slab	Edge Beam? Type StrengtheningType Length Width Construction Date Installation Date	Y Solid Not Known 14.30 14.25 01/01/1975 23/09/2009
Shape Type Material longditudinal joint (repl Type parapet cantilever - (Ins Type Slab Form Material West Deck(main span - Structure Form Type Construction Type Enclosure Type Joint 2 west (north verg Type Product Joint 3 west (south verg	Box Precast Hollow Precast Prestressed Concrete Acced Nov 07) - (Inspection Element) LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete west) Simply Supported Beam And Slab Void Inaccessible Ge piers) Buried Joint(Continuous Surfacing) Bayer (Uk) Ltd Bp1 Buried Joint ge piers)	Edge Beam? Type StrengtheningType Length Width Construction Date Installation Date No. of Joints	Y Solid Not Known 14.30 14.25 01/01/1975 23/09/2009 1
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Type LNJ - Longitudinal joint A14 westbound surfacing (replaced Sept 09) - (Inspection Element) Type SUR - Carriageway surfacing Box beam concrete west Strengthening Type Not Known Type Precast Hollow Edge Beam? Y Material Precast Prestressed Concrete central reserve - integral sub-surface drainage system, installaed '09 - (Inspection Element) CRV - Central reserve parapet cantilever west - (Inspection Element) CRV - Central reserve	Risk Ranking	0.00	Priority Ranking	0.00
Type LNJ - Longitudinal joint A14 westbound surfacing (replaced Sept 09) - (Inspection Element) Type SUR - Carriageway surfacing Box beam concrete west Strengthening Type Not Known Type Precast Hollow Edge Beam? Y Material Precast Prestressed Concrete central reserve - integral sub-surface drainage system, installaed '09 - (Inspection Element) CRV - Central reserve parapet cantilever west - (Inspection Element) CRV - Central reserve	longitudinal joint (Incr	paction Element)		
A14 westbound surfacing (replaced Sept 09) - (Inspection Element) Type SUR - Carriageway surfacing Box beam concrete west Shape Box Shape Box Strengthening Type Not Known Type Precast Hollow Edge Beam? Y Material Precast Prestressed Concrete central reserve - integral sub-surface drainage system, installaed '09 - (Inspection Element) Type CRV - Central reserve parapet cantilever west - (Inspection Element)				
Type SUR - Carriageway surfacing Box beam concrete west Box Shape Box Shape Box Strengthening Type Not Known Type Precast Hollow Material Precast Prestressed Concrete central reserve - integral sub-surface drainage system, installaed '09 - (Inspection Element) Type CRV - Central reserve parapet cantilever west - (Inspection Element)	Lihhe			
Type SUR - Carriageway surfacing Box beam concrete west Box Shape Box Shape Box Strengthening Type Not Known Type Precast Hollow Material Precast Prestressed Concrete central reserve - integral sub-surface drainage system, installaed '09 - (Inspection Element) Type CRV - Central reserve parapet cantilever west - (Inspection Element)	A14 westbound surfaci	ng (replaced Sept 09) - (Inspection E	lement)	
Box beam concrete west Shape Box Shape Box Strengthening Type Not Known Type Precast Hollow Edge Beam? Material Precast Prestressed Concrete central reserve - integral sub-surface drainage system, installaed '09 - (Inspection Element) Type CRV - Central reserve parapet cantilever west - (Inspection Element)				
Shape Box Strengthening Type Not Known Type Precast Hollow Edge Beam? Y Material Precast Prestressed Concrete Y central reserve - integral sub-surface drainage system, installaed '09 - (Inspection Element) CRV - Central reserve parapet cantilever west - (Inspection Element) V		cert canagena, canading		
Shape Box Strengthening Type Not Known Type Precast Hollow Edge Beam? Y Material Precast Prestressed Concrete Y central reserve - integral sub-surface drainage system, installaed '09 - (Inspection Element) CRV - Central reserve parapet cantilever west - (Inspection Element) V	Box beam concrete we	st		
Material Precast Prestressed Concrete central reserve - integral sub-surface drainage system, installaed '09 - (Inspection Element) Type CRV - Central reserve parapet cantilever west - (Inspection Element)	Shape	Box	Strengthening Type	Not Known
Material Precast Prestressed Concrete central reserve - integral sub-surface drainage system, installaed '09 - (Inspection Element) Type CRV - Central reserve parapet cantilever west - (Inspection Element)	Туре	Precast Hollow	Edge Beam?	Υ
Type CRV - Central reserve parapet cantilever west - (Inspection Element)		Precast Prestressed Concrete		
Type CRV - Central reserve parapet cantilever west - (Inspection Element)	control recorve interru	al cub curfaca drainaga avatam -inst	allood '00 - (Increation Elemen	nt)
parapet cantilever west - (Inspection Element)			anaed 09 - (inspection Elemei	
	туре	CRV - Central reserve		
	narapet cantilever west	- (Inspection Element)		
	. 144			



Slab			
Form	Slab Flat	Туре	Solid
Material	Insitu Reinforced Concrete	StrengtheningType	Not Known
South Pier			
Support Type	Concrete Frame	Connection Type	Proprietary Elastomeric
Assessment Data			
Strengthening	Ν	Permanent Protection	N
Completed			
Construction Date			
Foundation 3			
Туре	Spread Footings		
Cross head (south)			
Material	Insitu Reinforced Concrete	Height	
		Length	
		Width	
bearing plinth (South p	iore)		
Material Type	Insitu Mass Concrete		
Bearing 4 (south verge			04/04/4004
Type Product	Elastomeric	Installation Date No. of Bearings	01/01/1981 30
Floduci		No. of Bearings	30
Bearing 5 (south verge			
Туре	Elastomeric	Installation Date	01/01/1981
Product		No. of Bearings	30
Piers / Columns for So	uth Pier		
Support Type	Concrete Frame	Connection Type	Proprietary
South Side Span			
	Beam/Girder - At/Below Deck Surface	Skew	0.00
Min Width Between	0.00	Date Min Width Last	0.00
Supports		Checked	
Features Data			
Critical Headroom		Critical Headroom	
		Last Checked	
East Deck(south side s	span - east)		
Structure Form Type	Simply Supported	Length	9.00
Construction Type	Beam And Slab	Width	14.25
Enclosure Type	Void Inaccessible	Construction Date	01/01/1975
Joint 4 east (south abu	tment)		
Туре	Buried Joint(Continuous Surfacing)	Installation Date	26/11/2007
		No. of Joints	1
Product	Stirling Lloyd Sentinel B5		



East Parapet			
Location	Deck Edge	Installation Date	01/01/1975
Form	Vehicle Parapet	Modified	Not Modified
Designer	B S C (Steel)	Modification Date	
M'facturer/Fabricator	B S C (Steel)	Nominal Height	1
Baco Parapet Type	Not Applicable	Modification Date	
Barrier Type	Other	(Baco post only)	
Material Infill	Mesh Infill	Primary Material	Steel
Cont Perf Class	Not Applicable	Parapet Group	P2(113)
Safety Fence Approac		Working Width	Not Applicable
Protection System	N	Safety Fence Departure	N
Protection Reason	Not Applicable	Protection System	N
BA 37/92 Ranking Dat		r toteotion bystem	
Assessed	Y	Assessed Date	31/03/2002
Contain Capacity Req	-	Containment Ranking	1.00
Containment Basis	Not Applicable		1.00
Risk Features Below	1.00	Risk Highway Carried Out	3.00
	0.00	Risk Containment Features	0.00
Risk Layout			
Risk Ranking	4.00	Priority Ranking	4.00
A14 surfacing east bou	nd (replaced Nov 2007) - (Inspection	Element)	
Туре	SUR - Carriageway surfacing		
Box beam concrete eas			
Shape	Box	Strengthening Type	Not Known
Туре	Precast Hollow	Strengthening Type Edge Beam?	Not Known Y
-	-		
Type Material	Precast Hollow Precast Prestressed Concrete	Edge Beam?	
Type Material longitudinal joint (repla	Precast Hollow Precast Prestressed Concrete Inced Nov 2007) - (Inspection Element	Edge Beam?	
Type Material	Precast Hollow Precast Prestressed Concrete	Edge Beam?	
Type Material longitudinal joint (repla	Precast Hollow Precast Prestressed Concrete ced Nov 2007) - (Inspection Element LNJ - Longitudinal joint	Edge Beam?	
Type Material longitudinal joint (repla Type parapet cantilever - (Ins	Precast Hollow Precast Prestressed Concrete ced Nov 2007) - (Inspection Element LNJ - Longitudinal joint spection Element)	Edge Beam?	
Type Material longitudinal joint (repla Type parapet cantilever - (Ins Type	Precast Hollow Precast Prestressed Concrete ced Nov 2007) - (Inspection Element LNJ - Longitudinal joint	Edge Beam?	
Type Material longitudinal joint (repla Type parapet cantilever - (Ins Type Slab	Precast Hollow Precast Prestressed Concrete Inced Nov 2007) - (Inspection Element LNJ - Longitudinal joint Inspection Element) EDG - Edge beam or edge cantilever	Edge Beam?	Y
Type Material longitudinal joint (repla Type parapet cantilever - (Ins Type Slab Form	Precast Hollow Precast Prestressed Concrete Inced Nov 2007) - (Inspection Element LNJ - Longitudinal joint Inspection Element) EDG - Edge beam or edge cantilever Slab Flat	Edge Beam?	Y
Type Material longitudinal joint (repla Type parapet cantilever - (Ins Type Slab	Precast Hollow Precast Prestressed Concrete Inced Nov 2007) - (Inspection Element LNJ - Longitudinal joint Inspection Element) EDG - Edge beam or edge cantilever	Edge Beam?	Y
Type Material longitudinal joint (repla Type parapet cantilever - (Ins Type Slab Form Material	Precast Hollow Precast Prestressed Concrete iced Nov 2007) - (Inspection Element LNJ - Longitudinal joint spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete	Edge Beam?	Y
Type Material longitudinal joint (repla Type parapet cantilever - (Ins Type Slab Form Material West Deck (south side	Precast Hollow Precast Prestressed Concrete ced Nov 2007) - (Inspection Element LNJ - Longitudinal joint spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete span - west)	Edge Beam?	Y Solid Not Known
Type Material longitudinal joint (repla Type parapet cantilever - (Ins Type Slab Form Material West Deck (south side Structure Form Type	Precast Hollow Precast Prestressed Concrete ced Nov 2007) - (Inspection Element LNJ - Longitudinal joint spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete span - west) Simply Supported	Edge Beam?	Y Solid Not Known 9.00
Type Material longitudinal joint (repla Type parapet cantilever - (Ins Type Slab Form Material West Deck (south side Structure Form Type Construction Type	Precast Hollow Precast Prestressed Concrete iced Nov 2007) - (Inspection Element LNJ - Longitudinal joint spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete span - west) Simply Supported Beam And Slab	Edge Beam?	Y Solid Not Known 9.00 14.25
Type Material longitudinal joint (replat Type parapet cantilever - (Inst Type Slab Form Material West Deck (south side Structure Form Type Construction Type Enclosure Type	Precast Hollow Precast Prestressed Concrete ced Nov 2007) - (Inspection Element LNJ - Longitudinal joint spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete span - west) Simply Supported Beam And Slab Void Inaccessible	Edge Beam?	Y Solid Not Known 9.00 14.25 01/01/1975
Type Material longitudinal joint (replat Type parapet cantilever - (Ins Type Slab Form Material West Deck (south side Structure Form Type Construction Type Enclosure Type Material Type	Precast Hollow Precast Prestressed Concrete iced Nov 2007) - (Inspection Element LNJ - Longitudinal joint spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete span - west) Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete	Edge Beam?	Y Solid Not Known 9.00 14.25 01/01/1975 PRIMARY
Type Material Iongitudinal joint (repla Type parapet cantilever - (Ins Type Slab Form Material West Deck (south side Structure Form Type Construction Type Enclosure Type Material Type Material Type	Precast Hollow Precast Prestressed Concrete iced Nov 2007) - (Inspection Element LNJ - Longitudinal joint spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete span - west) Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete Insitu Reinforced Concrete	Edge Beam?	Y Solid Not Known 9.00 14.25 01/01/1975
Type Material longitudinal joint (replat Type parapet cantilever - (Ins Type Slab Form Material West Deck (south side Structure Form Type Construction Type Enclosure Type Material Type Material Type Joint 4 west (south abu	Precast Hollow Precast Prestressed Concrete Inced Nov 2007) - (Inspection Element LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete Span - west) Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete Insitu Reinforced Concrete Insitu Reinforced Concrete	Edge Beam?	Y Solid Not Known 9.00 14.25 01/01/1975 PRIMARY SECONDARY
Type Material Iongitudinal joint (repla Type parapet cantilever - (Ins Type Slab Form Material West Deck (south side Structure Form Type Construction Type Enclosure Type Material Type Material Type	Precast Hollow Precast Prestressed Concrete iced Nov 2007) - (Inspection Element LNJ - Longitudinal joint spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete span - west) Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete Insitu Reinforced Concrete	Edge Beam? Type StrengtheningType Length Width Construction Date Material Name Material Name Installation Date	Y Solid Not Known 9.00 14.25 01/01/1975 PRIMARY
Type Material longitudinal joint (replat Type parapet cantilever - (Ins Type Slab Form Material West Deck (south side Structure Form Type Construction Type Enclosure Type Material Type Material Type Joint 4 west (south abu	Precast Hollow Precast Prestressed Concrete Inced Nov 2007) - (Inspection Element LNJ - Longitudinal joint Spection Element) EDG - Edge beam or edge cantilever Slab Flat Precast Reinforced Concrete Span - west) Simply Supported Beam And Slab Void Inaccessible Precast Prestressed Concrete Insitu Reinforced Concrete Insitu Reinforced Concrete	Edge Beam?	Y Solid Not Known 9.00 14.25 01/01/1975 PRIMARY SECONDARY



West Parapet			
Location	Deck Edge	Installation Date	01/01/1975
Form	Vehicle Parapet	Modified	Not Modified
Designer	B S C (Steel)	Modification Date	
M'facturer/Fabricator	B S C (Steel)	Nominal Height	1
Baco Parapet Type	Not Applicable	Modification Date	
Barrier Type	Other	(Baco post only)	
Material Infill	Mesh Infill	Primary Material	Steel
Cont Perf Class	Not Applicable	Parapet Group	P2(113)
Safety Fence Approac		Working Width	Not Applicable
Protection System	Ν	Safety Fence Departure	N
Protection Reason	Not Applicable	Protection System	Ν
BA 37/92 Ranking Dat		-	
Assessed	Y	Assessed Date	31/03/2002
Contain Capacity Req	Normal	Containment Ranking	1.00
Containment Basis	Not Applicable	j	
Risk Features Below	1.00	Risk Highway Carried Out	3.00
Risk Layout	0.00	Risk Containment Features	0.00
Risk Ranking	4.00	Priority Ranking	4.00
	und (replaced Sept 09) - (Inspection E	lement)	
Туре	SUR - Carriageway surfacing		
longitudinal joint - (Ins	nection Element)		
Type	LNJ - Longitudinal joint		
Туре			
Box beam concrete we	st		
Shape	Box	Strengthening Type	Not Known
Туре	Precast Hollow	Edge Beam?	Y
Material	Precast Prestressed Concrete	0	
control recerve - integr	al sub-surface drainage system, inst	allod '00 - (Inspection Flomen	*)
	CRV - Central reserve	alled 09 - (Inspection Elemen	()
Туре	CRV - Celillai leselve		
Double sided open box	beam safety fence		
Location	Verge	Installation Date	
Form	Safety Barrier	Modified	Modification Status
Designer	Not Known	Modification Date	
M'facturer/Fabricator		Nominal Height	Not Specified
Baco Parapet Type	Not Applicable	Modification Date	
Barrier Type	DROBB	(Baco post only)	
Material Infill	No Infill	Primary Material	Not Known
Cont Perf Class	Not Applicable	Parapet Group	Not Applicable
Safety Fence Approac	••	Working Width	Not Applicable
Protection System	N	Safety Fence Departure	N
Protection Reason	Not Applicable	Protection System	N
BA 37/92 Ranking Dat			
Assessed		Assessed Date	
Contain Capacity Req	Not Specified	Containment Ranking	
Containment Basis	Not Known		
		Diele Ulimburger Comised Out	
		RISK HIGNWAY Carried Out	
Risk Features Below		Risk Highway Carried Out Risk Containment Features	
Risk Features Below Risk Layout	0.00	Risk Containment Features	0.00
Risk Features Below Risk Layout Risk Ranking	0.00		0.00
Risk Features Below Risk Layout		Risk Containment Features	0.00

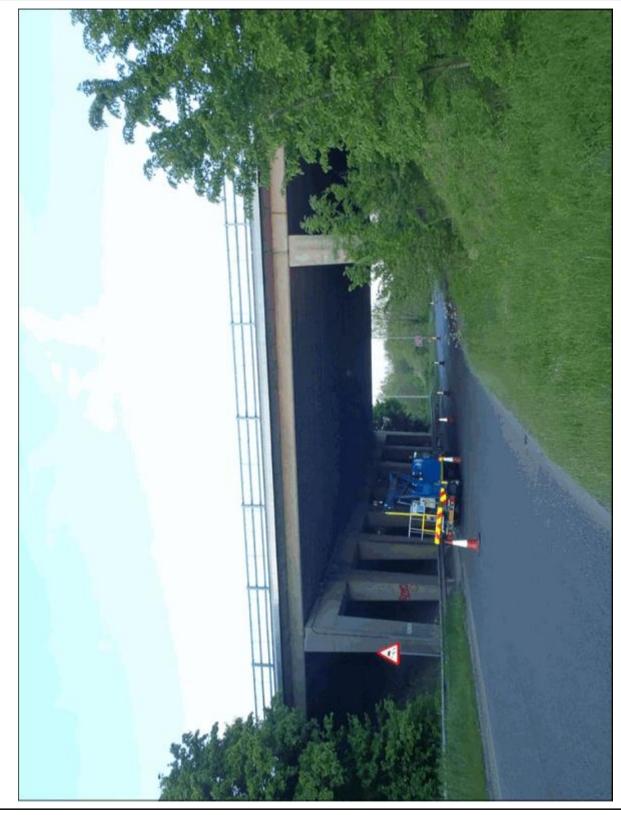


Slab			
Form	Slab Flat	Туре	Solid
Material	Insitu Reinforced Concrete	StrengtheningType	Not Known
South Abutment			
Support Type	Bank Seat	Material Type	Insitu Reinforced Concrete
Connection Type	Proprietary Elastomeric Bearings	Facing Material	None
Foundation 4			
Туре	Spread Footings		
Bearing shelf south			
Material Type	Insitu Mass Concrete		
Wingwall south west			
Anchoring System	Sub Surface	Length	
		Height	
Wingwall south east			
Anchoring System	Sub Surface	Length	
		Height	
ballast wall (south) - (I			
Туре	BAL - Ballast wall		
south embankment (na	ature reserve) - (Inspection Element)		
Туре	EMB - Embankment or adjacent earth	works	
south abutment bearir			
Type	Elastomeric	Installation Date	01/01/1975
Product		No. of Bearings	30
South Revetment		-	
Туре	Surface		
Abutment Wall for Sou			
Support Type	Bank Seat	Material Type	Insitu Reinforced
Connection Type	Proprietary Elastomeric	Facing Material	None
	· ·	-	



Structure Report for Claydon I/C North (/A14//181.10//)

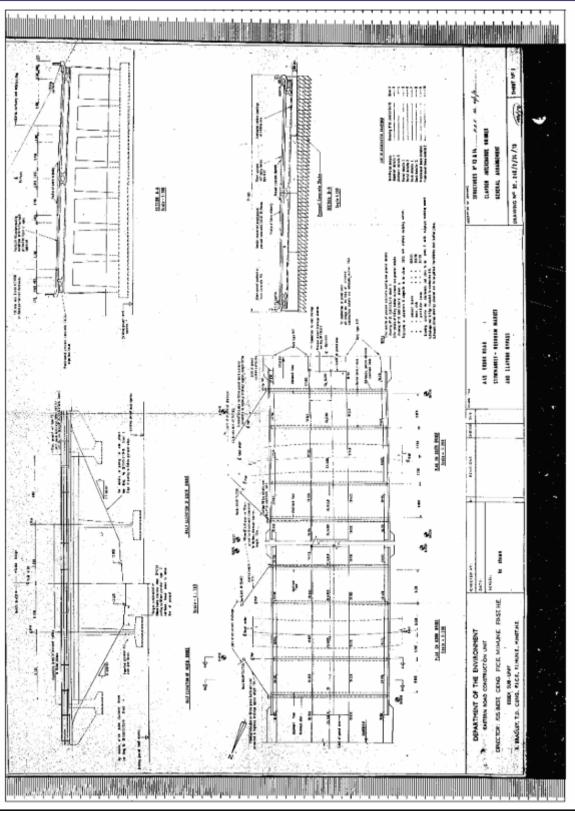
General Photograph





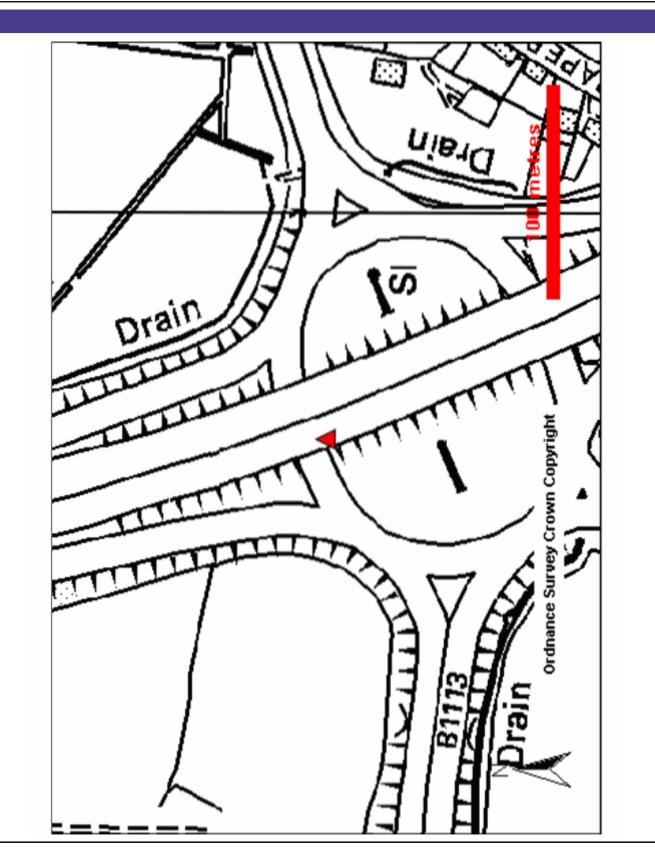
Structure Report for Claydon I/C North (/A14//181.10//)

Elevation Drawing





Structure Report for Claydon I/C North (/A14//181.10//)



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Structure Report for Claydon I/C North (/A14//181.10//)

1:50,000 Map

