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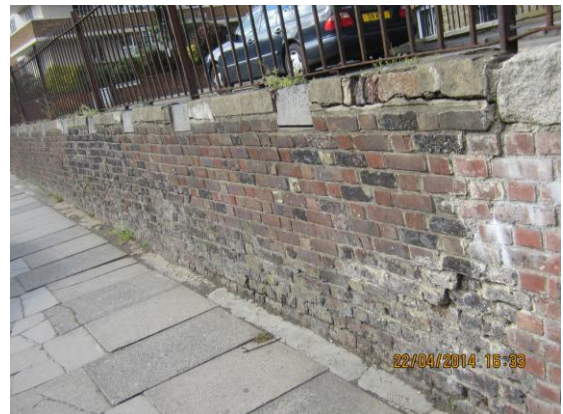
Haringey Council

Structural Engineering Manager:

John Yiangou

SUPERFICIAL BRIDGE INSPECTION REPORT 2014- 2015

Highgate Hill Retaining Wall HGY 132



Report by:

Logi Logitharajah

Date of Inspection:

23 February 2015

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1. COMMISSION

The Structures Group is commissioned to carry out routine yearly inspections of all Highway Structures as agreed on a yearly basis with the Client.

2. DESCRIPTION OF THE WALL

The retaining wall supports a road (The Bank) elevated from the main Highgate Hill Road. It is 122 metres long, and the height tapers from 1500mm to 600mm. At the top this wall is 310 mm thick, incorporating lime stone coping stones within brickwork, at 600mm intervals. Rest of the top bricks are rendered to two courses deep. The wall has few brick piers on the Highgate Hill road side.

A safety steel fence is fixed into slots in coping stone insets at the top of brick wall, held by cast lead. The original construction is in red bricks set in lime mortar, and additional support to road traffic is provided by buried precast concrete retaining walls.

'The Bank' is an access crescent road serving mainly to Channing School, Ghana High Commission and few residential properties, and is of width 4600mm with a pedestrian walkway of width 1000mm on one side of the road. This road has allocated parking bays of width 2100mm, on the same side as the footway, remainder of which is marked with double yellow lines. Clear width available for two way flow of traffic is only 2500mm. There is no footway along the retaining wall side of the road, and the distance between kerb and steel fence varies between 600 to 800mm.

A bus stop is located close to this wall on the pedestrian footway of Highgate Hill Road.

The wall is listed grade II.

3. OBSERVATIONS

At a number of locations the brickwork was rebuilt, as can be seen by various bricks used for the construction. The section of wall near the bus stop was recently re built and some top course coping bricks are missing.

New movement is now noted close to bus stop and cracks along the kerb. The steel fence also has impact damage at this location. The top

level of a length of wall near the bus stop has leaned towards Highgate hill excessively, and is likely to collapse without warning. This movement is also indicated by long gaps along the kerb, and damaged steel fence.

4. RECOMMENDATIONS

As a matter of urgency please cordon off the area of footway around the moved wall. The section of this wall to be demolished and rebuilt, and the missing coping bricks are to be replaced.

All rebuilding works are to the agreed specification used previously.

5. WORK CARRIED OUT SINCE LAST INSPECTION

None apparent.

Report Prepared by: Logi Logitharajah. Date: 23rd February 2015

Report Checked by: Date:

APPENDIX A – INSPECTION REPORT SUMMARY

Name: Crouch Hill

Date: 23rd February 2015

Bridge N^o: HGY 89

Weather: Overcast/dry

Type: Bridge over Disused Railway Line

Superficial Inspection Report

Structural Members	Extent of Defects	Severity of Defects	Work	Priority of Action
Foundation				
Inverts				
Piers & Columns				
Abutments				
Wing Walls	B	3	R	M
Fenders				
Pointing	C	3	R	M
Bearings				
Main Beams				
Edge Beams	A	1	-	-
Transverse Beams				
Bracings				
Arches				
Tie Rods				
Deck Plates				
Deck Slab (Sofit)	B	2	R	L
Box Beam				
Approach Embankment				
Waterproofing				
Copings / Capping				
Expansion Joints				
Surfacing				
Manholes				
Drainage Systems				
Service Ducts				
Parapets	B	3	N	M
Safety Fences / Barriers				
Paint				
Access Stairs	D	3	C	H
Machinery				
Lighting				
Height Signs				
Weight Signs				

Signed by:

DEFECT & REMEDIAL WORK CLASSIFICATION:

Extent of defect:

- A - No significant defect**
- B - Slight, not more than 5% of length or area affected**
- C - Moderate, 5% to 20% affected**
- D - Extensive, more than 20% affected**

Severity of defect:

- 1 - No significant defect**
- 2 - Minor defects of a non-urgent nature**
- 3 - Defects which should be included for attention within the next annual maintenance programme**
- 4 - Severe defects where urgent action is required**

Work recommended:

- A - Add (new items to be provided, e.g. waterproofing)**
- C - Change / replacement**
- P - Paint**
- N - No action at present, monitor only**
- R - Repair / maintain**

Priority of work:

- H - High:** Work should be done next financial year to ensure safety of the Public or safeguard structural integrity or avoid high cost penalty
- M - Medium :** Work should be done during next financial year, postponement carries cost penalty
- L - Low:** Work should be done within the next two financial years

APPENDIX B – PHOTOGRAPHS



