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23rd October 2024

Sammy Hamilton
43A The Corso, Manly
New South Wales 2095

RE: Hume Highway Overpass, Strathfield South, NSW
DA For Continued Signage Use, Structural Feasibility and Safety Report

1.0 Introduction

This assessment has been conducted by Dennis Bunt Consulting Engineers Pty Ltd (DBCE) at the request of Keylan. No responsibility under the law of contract, tort or otherwise for any loss or damage is accepted.

The purpose of this assessment was to perform a structural and safety review of the existing signs at Hume Highway Overpass, Strathfield South, NSW for the DA approval by TfNSW for Continued Signage use.

The existing signage was inspected on the 24th of November 2022 as part of DBCE's ongoing maintenance inspections for JCDecaux.

The existing signage was documented by DBCE on the 23rd Of September 2024 for TfNSW, drawing number DS2024/001016, DA01(1).

The following documents were used in this assessment.

1. Transport Corridor Outdoor Advertising and Signage Guidelines, NSW Government (November 2017)
2. AS1170.0-2002 Structural design actions Part 0: General principles
3. AS1170.1-2002 Structural design actions Part 1: Permanent, imposed and other actions.
4. AS1170.2-2021 Structural design actions Part 2: Wind actions
5. AS4100-2020 Steel structures.

- | | |
|----------------|---|
| 6. AS5100-2017 | Bridge design. |
| 7. AS1657-2018 | Fixed platforms, walkways, stairways, and ladders - Design, construction and installation |

This report was limited to a visual examination only and no calculations were performed.

2.0 Observations/ Discussion

The existing signs are backlit supersite signs. The signs consist of steel boxes fixed to each side of a steel truss footbridge located over the Hume Highway. There are steel rails welded to the sides of the bridge's steel trusses. Z brackets are fixed to the back of each sign box and the brackets fit over the rails connecting the boxes to the rails. Each sign face is 12.66m horizontal x 3.35m vertical. Refer to photo 1, 2 and 4.

The sign boxes are located on the outside of the safety screen. Access to the sign boxes is from hatches in the roof of the safety screen, and a hatch in the top of each box. Refer to photo 1 and 4. There is a hatch in the top of each sign box and a permanent ladder inside each sign box underneath the hatches.

Each sign box consists of a steel structure on all sides of the box except for the front where a PVC banner tensioned with ratchet straps is fixed. There are fluorescent lights fixed to the back of each box to illuminate the advertising sign at night. When the banner is replaced, it is done from a walkway inside the box without having to stop the traffic below the sign. There is a horizontal cable running the length of the box that workers replacing the banner can fix their harnesses to during the banner change. Refer to photos 3 and 8.

Safety cables to stop the boxes falling onto the road during vehicle impact have been installed. Refer to photo 5 to 7.

3.0 Recommendations/ Conclusions

- The sign boxes are in accordance with the relevant Australian standards and Transport Corridor Outdoor Advertising and Signage Guidelines, NSW Government (November 2017)
DBCE note there are safety cables fixed to the rear of each box and the bridge to prevent the sign boxes falling on traffic should it be impacted by high vehicles in accordance with Section 1.2 e of the guidelines.
- The steel frames connecting the sign boxes to the bridge and the sign boxes are both galvanised and in good condition.
- The structure and the sign box are rated as category 2 by DBCE. ie Minimal damage, minor localised surface corrosion but serviceable. Re-inspection will be in November 2024, ie approximately 2 years from the time of the last inspection.
- There are presently no structural or safety issues requiring fixing.

If you have any questions, please do not hesitate to ring the undersigned on 0400 023 714

Yours Faithfully,

A handwritten signature in blue ink, appearing to read 'J Linsell', is written over a light blue rectangular background.

John Linsell BE(Hons), MIEAust, CPEng, NPER(Struct)
for Dennis Bunt Consulting Engineers Pty Ltd.



Photo 1



Photo 2

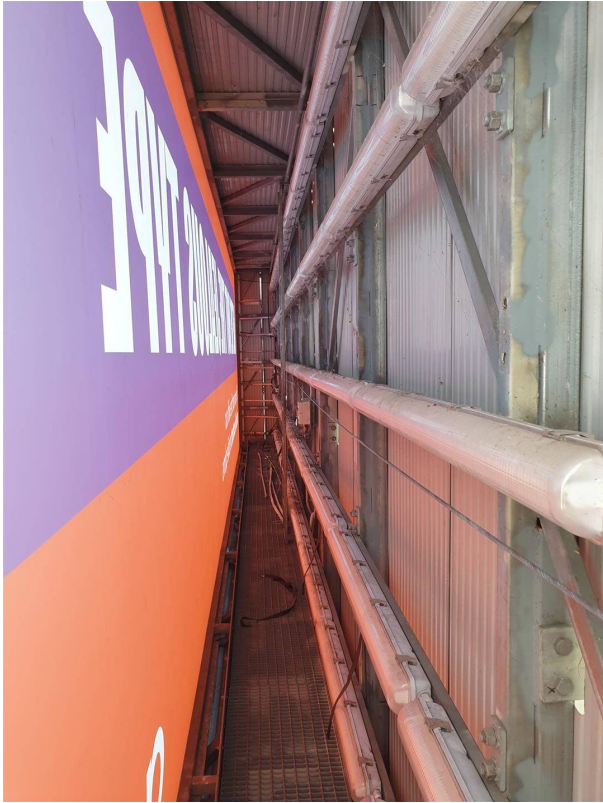


Photo 3



Photo 4

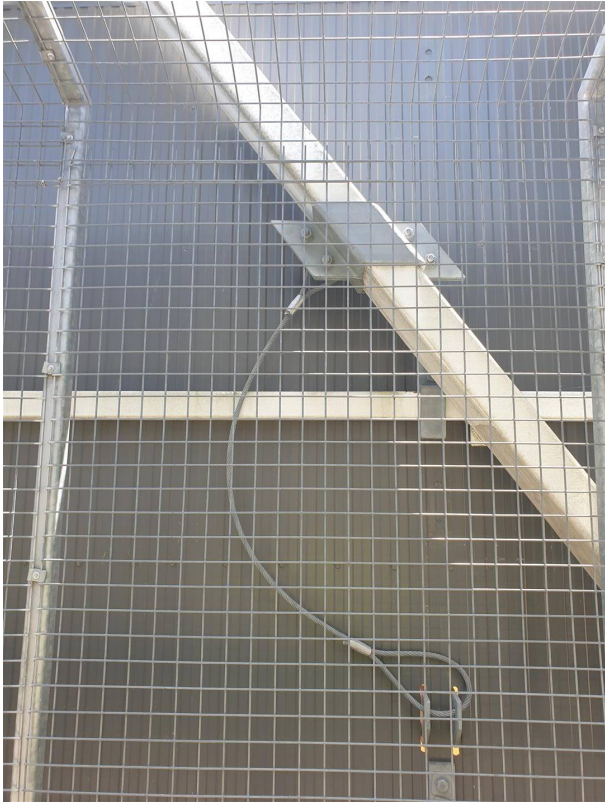


Photo 5



Photo 6



Photo 7

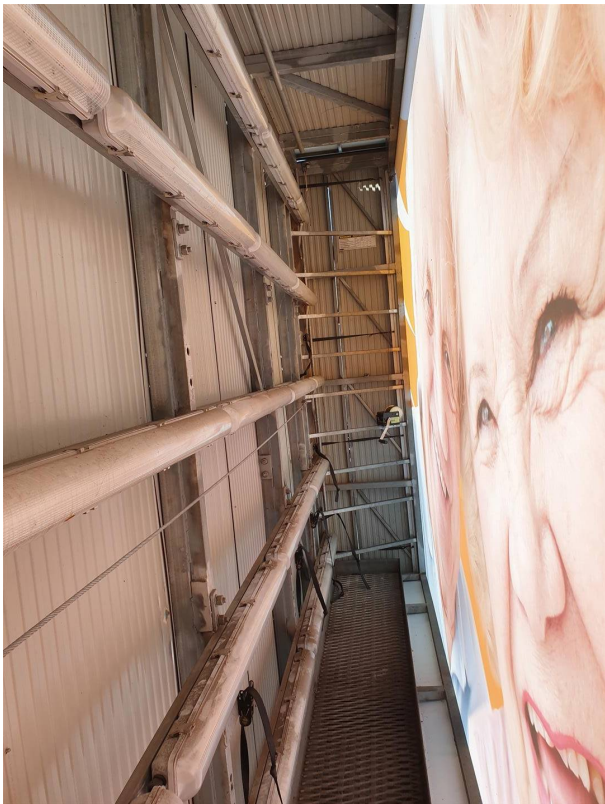


Photo 8