

Transport Engineering

REF: N139961

DATE: 7 December 2018

Laing O'Rourke
Bosch 1B, Blackburn Circuit
CAMPERDOWN NSW 2006

Attention: Mr. Steven Zakir (Graduate Engineer)

Dear Steven,

RE: USYD ENGINEERING AND TECHNOLOGY – RESPONSE TO DPE COMMENTS

Reference is made to the DPE response received by Laing O'Rourke concerning the Traffic Management Package dated 11 September 2018 that formed part of the submission in response to stakeholders' comments.

Specifically, DPE's response relevant to this assessment is:

"Swept Paths for HRVs and MRVs show a number of conflicts with existing structures, including the hazardous materials storage building. The assessment does not advise how there will be resolved."

Please find below GTA's response on how conflicts with existing structures previously identified will be resolved. Refer to the attached mark up plan of our previous assessment for the locations of conflict points assessed.

Height Clearance of Existing Structure to the East of the Retained Engineering Building (Location 01)

The location had an existing canopy that restricts the height clearance along the Service Road to 3.6 metres. It is proposed that the University of Sydney will manage the height clearance issue via its procurement process, whereby the restricted height clearance is declared to ensure all suppliers delivering to the Engineering Building dock being vehicles that can clear the reduced height clearance.

Chemical and Hazardous Material Storage (Location 02)

It is noted that the only vehicle that may conflict with the Chemical and Hazardous Material Storage is the 12.5m HRV. As HRV and MRV vehicles exiting the site will be managed via the implementation of a Traffic Guidance Scheme previously submitted, it is proposed that the University's nominated staff that will be implementing the Traffic Guidance Scheme provide direction to HRV vehicles to perform a corrective manoeuvre to achieve a straight approach to the Chemical and Hazardous Material Storage.

This information should form part of the University's procurement process to ensure suppliers are aware of the requirement.

Refer to the attached swept path for details.

Traffic Island Adjacent to Telstra Pit (Location 03)

The vehicle where the conflict occurs is an existing traffic island where two existing Telstra Pit is located. The conflict can be managed either via the installation of a localised ramp to allow for HRV to track over the traffic island or via cutting back the traffic island to be clear of the swept path.

Bollards (Location 04)

The bollards identified as conflict have been removed whilst construction works are being undertaken. Replacement bollards following completion of construction will be installed in locations clear of the swept path of an HRV.

We trust the above assessment provide sufficient clarity on mitigation / management arrangements that can be implemented to manage identified potential conflict between trucks and existing structures.

Naturally, should you have any questions or require any further information, please do not hesitate to contact me on (02) 8448 1800.

Yours sincerely

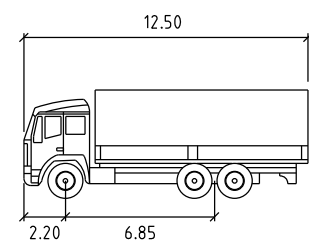
GTA CONSULTANTS

Dora Choi
Associate Director

encl.

Mark-up of N139961-01-P3

ON 11/09/2018 AT 12:04:30 PM
PLOTTED BY : Chienlong You



SU TRUCK metres
Width : 2.50
Track : 2.50
Lock to Lock Time : 6.0
Steering Angle : 36.6

SWEPT PATH KEY

- VEHICLE CENTRE LINE
- VEHICLE TYRE PATH
- VEHICLE BODY PATH
- 600mm CLEARANCE FROM VEHICLE BODY
- ASSUMED SPEED 5km/h



Melbourne 03 9851 9600
Sydney 02 9448 1800
Brisbane 07 3113 5900
Canberra 02 6243 9400
Adelaide 08 8334 3400
Gold Coast 07 5510 4814
Townsville 07 4722 2765
Perth 08 6169 1000



PRELIMINARY PLAN
FOR DISCUSSION PURPOSES
ONLY SUBJECT TO CHANGE
WITHOUT NOTIFICATION

DESIGNED
C.YOU

DESIGN CHECK
D.CHOI

APPROVED BY
D.CHOI

DATE ISSUED
11 SEPTEMBER 2018

SCALE
A3
0 5 10
1:500
CAD FILE NO.
N139961-01-P3.dgn

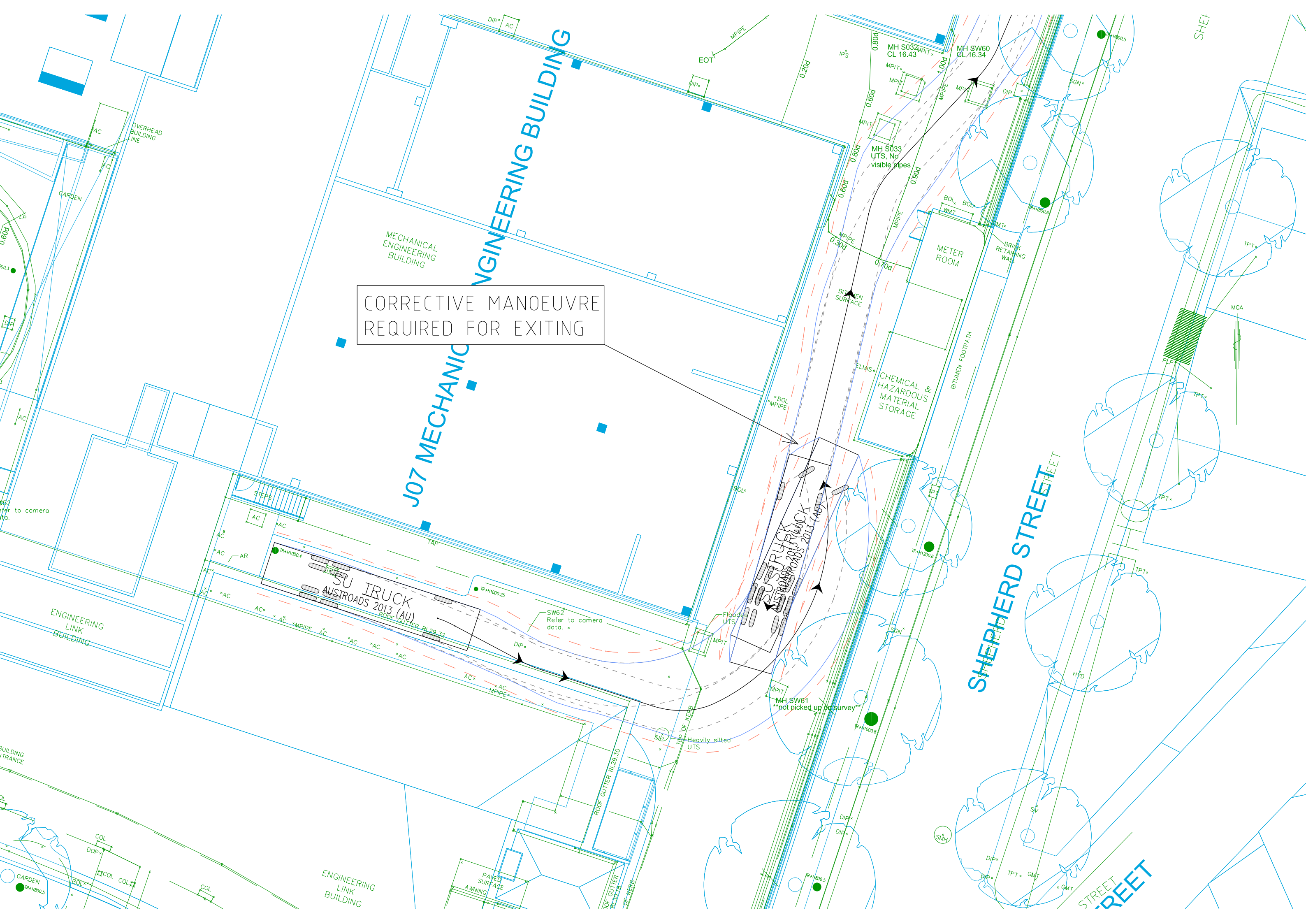
USYD ENGINEERING AND TECHNOLOGY

SWEPT PATH ASSESSMENT

DRAWING NO. N139961-01-03

SHEET 03 OF 09

ISSUE P3



CORRECTIVE MANOEUVRE
REQUIRED FOR EXITING

J07 MECHANICAL

SHEPHERD STREET

STREET

SU TRUCK
AUSTROADS 2013 (AU)

BUS TRUCK
AUSTROADS 2013 (AU)

MH SW61
not picked up on survey

SW62
Refer to camera
data. x

Heavily silted
UTS

Flooded
UTS

Refer to camera
data. x

Refer to camera
data. x

Refer to camera
data. x

Refer to camera
data. x

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data. x

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