

22 June 2018

171320 TAAA

Ethos Urban  
173 Sussex Street  
Sydney NSW 2000

Attention: Alicia Desgrand

## University of Wollongong Arts and Social Sciences

### Response to Submissions

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Dear Alicia,

This letter aims to respond to relevant Traffic Engineering concerns raised during the public exhibition of the Environmental Impact Statement (EIS) for the University of Wollongong Arts and Social Sciences Building (SSD 17\_8596).

Relevant agency responses were received from Roads and Maritime Services (RMS), Wollongong Neighbourhood Forum, Transport for New South Wales (TfNSW) and Wollongong City Council (WCC).

RMS and TfNSW highlighted the potential impacts of the Mount Ousley interchange, but raised no objections to the EIS. WCC highlighted concerns with regards to the parking demands being met through leasing spaces from the adjacent TAFE and that no permanent solution was detailed to meet the carparking shortfall. In response, further clarification is provided within this letter detailing the proposed staging of works and the associated parking with each development, as well as further information regarding the permanent parking solution.

### Parking Supply and Demand

It is noted that there are three developments occurring within the University that will have an impact on the number of carparking spaces available and the demand for these spaces: the P5 carpark extension (DA 2017/376), the Molecular Life Sciences (MLS) Building (SSD 16\_8096) and the Arts and Social Sciences Building (Western Building SSD 17\_8596).

We have been advised by the University on an indicative timeline for the staging of works to ensure the carparking demands are met during each stage of construction and occupation of the proposed works on the Campus. This staging has shown that parking will be provided to meet the demands of the University during each stage of development within the Campus. The staging accounts for the decrease in parking from construction works and the increase in demand due to building occupations.

Proposed changes to the Western Building's loading dock and future reconfigurations to the existing P4 Carpark have allowed for the demand to be met.

Refer to Table 1 for a summary of the net parking provided within the Campus at each stage of the works.

Table 1: Indicative Staging, Parking Demand and Parking Supply

Milestone	Description	Indicative Date	Parking Supply/ Demand Impact	Total Net Parking
<b>TAFE Lease</b>	Lease of additional 201 parking spaces at the TAFE	1 July 2018	+201	+201
<b>MLS Construction Commences</b>	Reduction in carparking due to building footprint	9 July 2018	-71	+130
<b>Western Building Construction Commences</b>	Reduction in carparking due to construction footprint	1 October 2018	-104	+26
<b>P5 Carpark Extension Finished</b>	Construction of additional 248 spaces completed.	February 2019	+248	+274
<b>MLS Building Occupied</b>	Additional demand due to occupation of new building	October 2019	-47	+227
<b>Western Building Occupied</b>	Additional demand due to occupation of new building	February 2020	-39	+188
<b>P4 Carpark Reconfiguration</b>	Existing P4 Carpark is reconfigured to provide additional spaces.	Prior to TAFE lease expiry	+13	+201
<b>Expiry of TAFE Carpark Lease</b>	Spaces lost due to expiry of TAFE carpark lease.	30 June 2021	-201	+0

## Loading Dock Reconfiguration

The proposed loading dock for the Western Building has been reconfigured to reduce the impact of the development on the existing P4 carpark. The previously proposed loading dock discussed in the Transport and Accessibility Assessment (TTW, 1 November 2017) resulted in 130 lost spaces. The revised loading dock arrangement will reduce the number of lost spaces to 104 (refer to Figure 1).

The revised loading dock will operate similarly to many loading docks within the Campus with vehicles reversing from Campus roads into the dock and exiting in a forward direction. The loading dock extents have been designed to allow for the swept path of a 12.5m Heavy Rigid Vehicle (HRV). Refer to Appendix A for the swept path analysis.

As the loading dock access will be located on a pedestrian desire line from the central Campus to the P4 Carpark, the loading dock will be access restricted and traffic marshals will be in place to ensure the safety of pedestrians while service vehicles are performing reversing manoeuvres. The University has advised that service vehicle movements are expected to be relatively infrequent and waste collections will occur prior to 6am.



Figure 1: Parking Loss due to Reconfigured Loading Dock

## Conclusion

Table 1 details that the indicative staging of works has been organised to ensure there is no shortfall of parking within the Campus through each stage. Council's concerns with regards to carparking demands have therefore been sufficiently addressed by the University from a Traffic Engineering perspective.

Should you require anything further please contact the undersigned.

Prepared by  
**TAYLOR THOMSON WHITTING  
(NSW) PTY LTD**



**GRACE CARPP**  
Traffic Engineer

Authorised By  
**TAYLOR THOMSON WHITTING  
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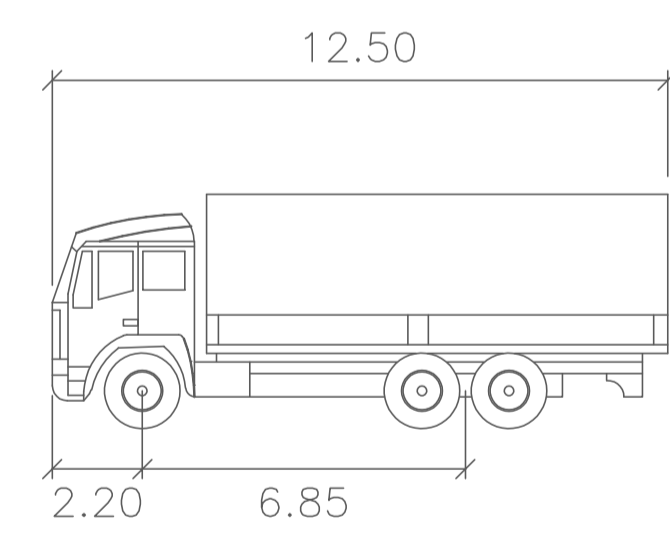
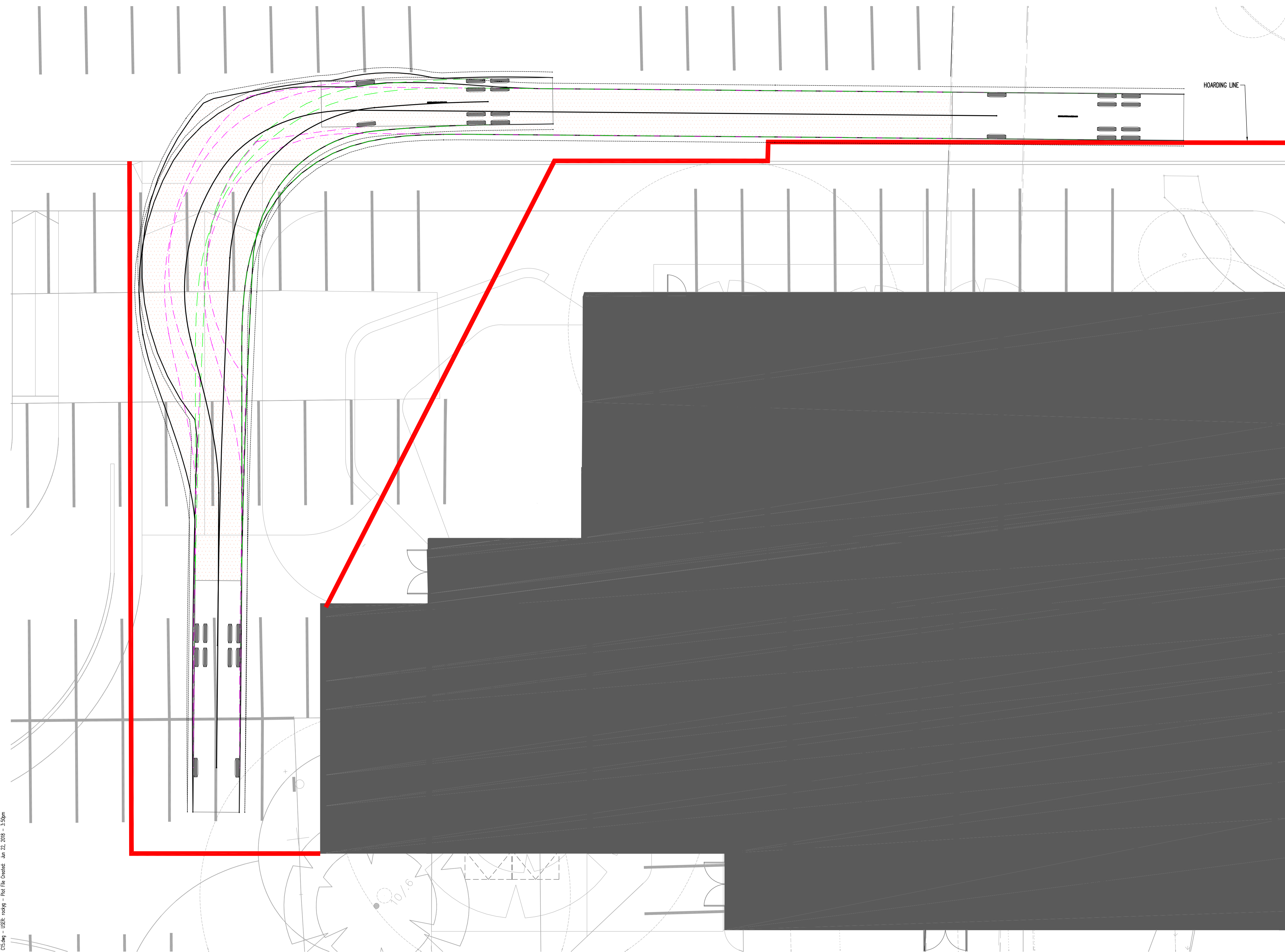


**PAUL YANNOULATOS**  
Technical Director

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## Appendix A

# 12.5m Heavy Rigid Vehicle Swept Path Analysis



SU TRUCK

Width : 12.50 meters  
 Track : 2.20 meters  
 Lock to Lock Time : 6.85 meters  
 Steering Angle : 36.6 degrees

**HEAVY RIGID VEHICLE DETAILS**  
 SCALE 1: NTS

Reference: C15.dwg - USER: rwhjg - Plot File Created: Jun 22, 2018 - 3:50pm

A1 ..... 0 1 2 3 4 5 6 7 8 9 10

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P2	REISSUE FOR APPROVAL	KH	RG	22.06.18										
P1	REISSUE FOR APPROVAL	KH	RG	19.06.18										

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Project

**UNIVERSITY OF WOLLONGONG,  
 WESTERN BUILDING CIVIL  
 WORKS**

Sheet Subject

**TURNING PATH OPTION 1**

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 1:400

Drawn: RG

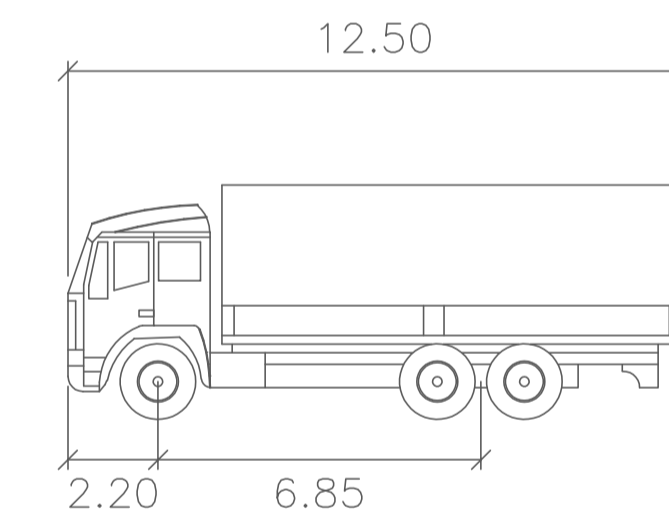
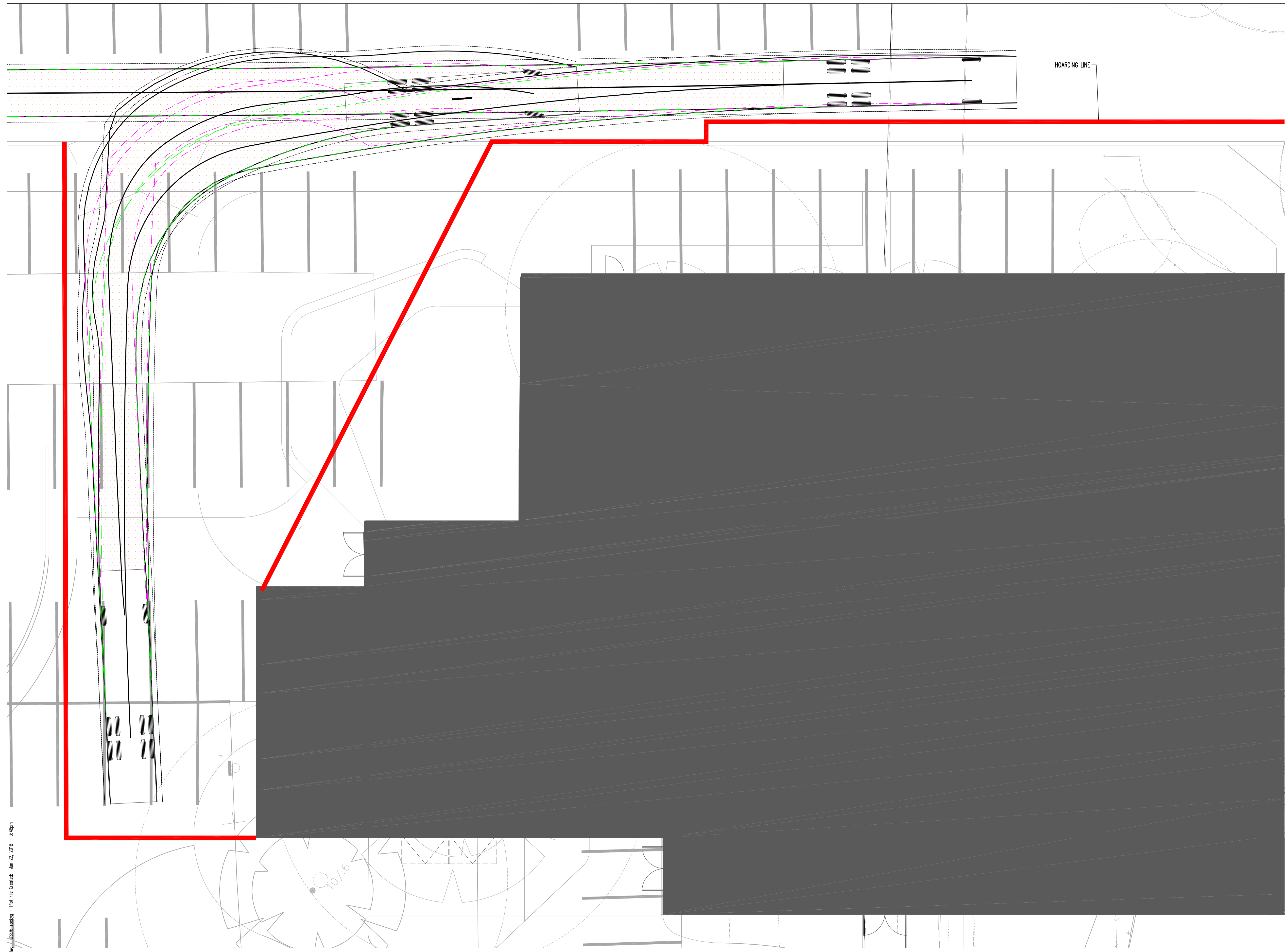
Authorised:

Job No: 171320

Drawing No: C015

Revision: P2

Plot File Created: Jun 22, 2018 - 3:50pm



SU TRUCK

Width	: 2.50	meters
Track	: 2.50	
Lock to Lock Time	: 6.0	
Steering Angle	: 36.6	

HEAVY RIGID VEHICLE DETAILS

Filename: C:\Users\j\OneDrive\Desktop - Jun 22, 2018 - 3:48pm

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Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
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Sheet Subject  
 TURNING PATH OPTION 2

Scale: A1  
 1:400

Drawn  
 RG

Authorised

Job No  
 171320

Drawing No  
 C016

Revision  
 P2

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