

Appendix A

RMS Correspondence



4 December 2013

RMS Reference: SYD13/01382 (A5685271)

The Director – Industry Projects
Department of Planning and Infrastructure
GPO Box 39
SYDNEY NSW 2001

**DIRECTOR GENERAL'S REQUIREMENTS FOR PROPOSED ENERGY FROM WASTE
FACILITY, HONEYCOMBE DRIVE, EASTERN CREEK**

Dear Sir/Madam

Reference is made to your email dated 29 November 2013 requesting Roads and Maritime Services (RMS) to provide details of key issues and assessment requirements regarding the abovementioned development for inclusion in the Director General's Environmental Assessment (EA) requirements.

RMS would like the following issues to be included in the transport and traffic impact assessment of the proposed development:

1. Daily and peak traffic movements likely to be generated by the proposed development including the impact on nearby intersections and the need/associated funding for upgrading or road improvement works (if required).
2. Details of the proposed accesses and the parking provisions associated with the proposed development including compliance with the requirements of the relevant Australian Standards (ie: turn paths, sight distance requirements, aisle widths, etc).
3. Proposed number of car parking spaces and compliance with the appropriate parking codes.
4. Details of service vehicle movements (including vehicle type and likely arrival and departure times).
5. RMS requires an assessment of the likely toxicity levels of loads transported on arterial and local roads to / from the site and, consequently, the preparation of an incident management strategy for crashes involving such loads, if relevant.
6. RMS will require in due course the provision of a traffic management plan for all demolition/construction activities, detailing vehicle routes, number of trucks, hours of operation, access arrangements and traffic control measures.

Roads & Maritime Services

Any inquiries in relation to this development application can be directed to Angela Malloch on 8849 2041 or <Angela.Malloch@rms.nsw.gov.au>

Yours faithfully



Pahee Rathan
A/Senior Land Use Planner
Transport Planning, Sydney Region

1 December 2013

10/5/2013 10:51:10 AM

The Director – Industry Projects
Department of Planning and Environment
GPO Box 961
Sydney NSW 2001

DIRECTOR GENERAL'S RESOURCES UNIT
PARTIALY, HOWEY STREET, EAST SYDNEY

Dear Sir/Madam,

Reference is made to your letter of 29 November 2013 requesting a copy of the Transport Planning (TP) report for the proposed development at 10/5/2013 10:51:10 AM. The TP report is attached to this letter.

RMS would like the following report to be submitted to the Transport Planning Unit for the proposed development:

1. Daily and peak traffic volume and delay data for the proposed development. The impact on nearby roads should be included but does not need to be a separate report. (If required, improvement works to be included.)

2. Details of the proposed development and the proposed transport infrastructure. This should include details of the proposed development, including any proposed transport infrastructure, and details of the proposed transport infrastructure, including any proposed transport infrastructure.

3. Proposed number of car parking spaces and any other transport infrastructure.

4. Details of service to be provided, including details of the proposed transport infrastructure, including any proposed transport infrastructure.

5. RMS requires an assessment of the likely impact of the proposed development on the surrounding area, including details of the proposed development, including any proposed transport infrastructure, including any proposed transport infrastructure.

6. RMS will require a copy of the proposed development, including details of the proposed development, including any proposed transport infrastructure, including any proposed transport infrastructure.

Yours faithfully

10/5/2013 10:51:10 AM

Appendix B

SIDRA Output Summaries

Appendix B-1

SIDRA Outputs - Existing

MOVEMENT SUMMARY



Site: Wallgrove Rd & Wonderland Dr EX_AM

13.406ms

Wallgrove Road and Wonderland Drive

EX_AM

Signals - Fixed Time Cycle Time = 120 seconds (Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles											
Mov ID	OD Mov	Demand Flows Total veh/h	HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back of Queue Vehicles veh	Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South: Wallgrove Road (south)											
1	L2	159	6.0	0.246	24.7	LOS B	4.9	35.9	0.73	0.75	45.6
2	T1	744	6.0	0.721	44.7	LOS D	19.9	146.8	0.97	0.86	36.8
3	R2	12	6.0	0.054	22.0	LOS B	0.3	2.0	0.72	0.67	44.0
Approach		915	6.0	0.721	41.0	LOS C	19.9	146.8	0.92	0.84	38.2
East: Access Road											
4	L2	3	6.0	0.041	64.5	LOS E	0.2	1.6	0.97	0.63	23.6
5	T1	1	6.0	0.041	61.0	LOS E	0.2	1.6	0.97	0.63	23.6
6	R2	3	6.0	0.041	64.4	LOS E	0.2	1.6	0.97	0.63	23.6
Approach		7	6.0	0.041	64.0	LOS E	0.2	1.6	0.97	0.63	23.6
North: Wallgrove Road (north)											
7	L2	18	6.0	0.669	29.2	LOS C	27.7	203.8	0.80	0.73	46.0
8	T1	1279	6.0	0.669	22.8	LOS B	27.7	204.1	0.80	0.72	48.7
9	R2	457	6.0	0.716	29.5	LOS C	16.2	119.5	0.92	0.88	42.8
Approach		1754	6.0	0.716	24.6	LOS B	27.7	204.1	0.83	0.76	47.0
West: Wonderland Dr											
10	L2	135	6.0	0.076	4.4	LOS A	0.0	0.0	0.00	0.46	47.8
11	T1	1	6.0	0.103	44.1	LOS D	1.7	12.2	0.87	0.71	30.1
12	R2	66	6.0	0.103	48.7	LOS D	1.7	12.2	0.87	0.71	30.1
Approach		202	6.0	0.103	19.2	LOS B	1.7	12.2	0.29	0.55	40.0
All Vehicles		2878	6.0	0.721	29.5	LOS C	27.7	204.1	0.82	0.77	43.2

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Queue Distance m	Prop. Queued	Effective Stop Rate per ped	
P2	East Full Crossing	5	17.6	LOS B	0.0	0.0	0.54	0.54	
P3	North Full Crossing	5	54.2	LOS E	0.0	0.0	0.95	0.95	
P4	West Full Crossing	53	39.3	LOS D	0.1	0.1	0.81	0.81	
All Pedestrians		63	38.7	LOS D			0.80	0.80	

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)

Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY



Site: Wallgrove Rd & Wonderland Dr EX_PM

13.406ms

Wallgrove Road and Wonderland Drive

EX_PM

Signals - Fixed Time Cycle Time = 120 seconds (Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles											
Mov ID	OD Mov	Demand Flows Total veh/h	HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back of Queue Vehicles veh	Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South: Wallgrove Road (south)											
1	L2	57	6.0	0.060	15.9	LOS B	1.2	9.2	0.49	0.67	51.1
2	T1	1264	6.0	0.674	25.9	LOS B	27.6	203.1	0.81	0.81	45.3
3	R2	1	6.0	0.003	17.9	LOS B	0.0	0.2	0.60	0.59	46.3
Approach		1322	6.0	0.674	25.5	LOS B	27.6	203.1	0.80	0.80	45.5
East: Access Road											
4	L2	19	6.0	0.218	66.3	LOS E	1.2	8.6	0.99	0.70	23.3
5	T1	1	6.0	0.218	62.8	LOS E	1.2	8.6	0.99	0.70	23.2
6	R2	19	6.0	0.218	66.3	LOS E	1.2	8.6	0.99	0.70	23.3
Approach		39	6.0	0.218	66.2	LOS E	1.2	8.6	0.99	0.70	23.3
North: Wallgrove Road (north)											
7	L2	2	6.0	0.478	27.4	LOS B	17.0	125.3	0.71	0.63	47.1
8	T1	895	6.0	0.478	20.9	LOS B	17.0	125.3	0.71	0.62	50.0
9	R2	87	6.0	0.360	24.9	LOS B	2.2	16.2	0.81	0.76	45.3
Approach		984	6.0	0.478	21.3	LOS B	17.0	125.3	0.71	0.64	49.6
West: Wonderland Dr											
10	L2	354	6.0	0.199	4.4	LOS A	0.0	0.0	0.00	0.46	47.8
11	T1	1	6.0	0.346	46.7	LOS D	5.9	43.2	0.92	0.77	29.5
12	R2	225	6.0	0.346	51.2	LOS D	5.9	43.2	0.92	0.78	29.4
Approach		580	6.0	0.346	22.7	LOS B	5.9	43.2	0.36	0.59	38.5
All Vehicles		2925	6.0	0.674	24.1	LOS B	27.6	203.1	0.69	0.70	44.5

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Distance m	Prop. Queued	Effective Stop Rate per ped	
P2	East Full Crossing	5	18.7	LOS B	0.0	0.0	0.56	0.56	
P3	North Full Crossing	5	54.2	LOS E	0.0	0.0	0.95	0.95	
P4	West Full Crossing	53	20.5	LOS C	0.1	0.1	0.58	0.58	
All Pedestrians		63	23.1	LOS C			0.61	0.61	

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)

Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

Appendix B-2

SIDRA Outputs – Existing + Development

MOVEMENT SUMMARY



Site: Wallgrove Rd & Wonderland Dr EX+DEV_AM

Wallgrove Road and Wonderland Drive

Period: AM

Scenario: Existing plus Development

Signals - Fixed Time Cycle Time = 120 seconds (Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles											
Mov ID	OD Mov	Demand Flows Total veh/h	HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back of Queue Vehicles veh	Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South: Wallgrove Road (south)											
1	L2	174	7.9	0.156	11.4	LOS A	2.4	17.6	0.42	0.69	54.1
2	T1	744	6.0	0.725	44.8	LOS D	20.1	148.0	0.97	0.86	36.8
3	R2	12	6.0	0.054	22.0	LOS B	0.3	2.0	0.72	0.67	44.0
Approach		929	6.4	0.725	38.3	LOS C	20.1	148.0	0.86	0.82	39.2
East: Access Road											
4	L2	3	6.0	0.041	64.5	LOS E	0.2	1.6	0.97	0.63	23.6
5	T1	1	6.0	0.041	61.0	LOS E	0.2	1.6	0.97	0.63	23.6
6	R2	3	6.0	0.041	64.4	LOS E	0.2	1.6	0.97	0.63	23.6
Approach		7	6.0	0.041	64.0	LOS E	0.2	1.6	0.97	0.63	23.6
North: Wallgrove Road (north)											
7	L2	18	6.0	0.669	29.2	LOS C	27.7	203.8	0.80	0.73	46.0
8	T1	1279	6.0	0.669	22.8	LOS B	27.7	204.1	0.80	0.72	48.7
9	R2	472	6.7	0.743	30.8	LOS C	17.5	129.5	0.94	0.89	42.1
Approach		1768	6.2	0.743	25.0	LOS B	27.7	204.1	0.83	0.77	46.7
West: Wonderland Dr											
10	L2	157	9.4	0.090	4.5	LOS A	0.0	0.0	0.00	0.46	47.7
11	T1	1	6.0	0.115	44.3	LOS D	1.8	13.6	0.87	0.71	30.1
12	R2	73	8.7	0.115	48.9	LOS D	1.8	13.6	0.87	0.71	30.0
Approach		231	9.2	0.115	18.6	LOS B	1.8	13.6	0.28	0.54	40.2
All Vehicles		2936	6.5	0.743	28.8	LOS C	27.7	204.1	0.80	0.77	43.4

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Queue Distance m	Prop. Queued	Effective Stop Rate per ped	
P2	East Full Crossing	5	17.6	LOS B	0.0	0.0	0.54	0.54	
P3	North Full Crossing	5	54.2	LOS E	0.0	0.0	0.95	0.95	
P4	West Full Crossing	53	39.3	LOS D	0.1	0.1	0.81	0.81	
All Pedestrians		63	38.7	LOS D			0.80	0.80	

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)

Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: Wallgrove Rd & Wonderland Dr EX+DEV_PM

Wallgrove Road and Wonderland Drive

Period: PM

Scenario: Existing + Development

Signals - Fixed Time Cycle Time = 120 seconds (Optimum Cycle Time - Minimum Delay)

Movement Performance - Vehicles											
Mov ID	OD Mov	Demand Flows Total veh/h	HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back of Queue Vehicles veh	Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South: Wallgrove Road (south)											
1	L2	72	10.3	0.050	8.0	LOS A	0.5	4.1	0.21	0.63	56.3
2	T1	1264	6.0	0.674	25.9	LOS B	27.6	203.2	0.81	0.81	45.3
3	R2	1	6.0	0.003	17.9	LOS B	0.0	0.2	0.60	0.59	46.3
Approach		1337	6.2	0.674	24.9	LOS B	27.6	203.2	0.78	0.80	45.8
East: Access Road											
4	L2	19	6.0	0.218	66.3	LOS E	1.2	8.6	0.99	0.70	23.3
5	T1	1	6.0	0.218	62.8	LOS E	1.2	8.6	0.99	0.70	23.2
6	R2	19	6.0	0.218	66.3	LOS E	1.2	8.6	0.99	0.70	23.3
Approach		39	6.0	0.218	66.2	LOS E	1.2	8.6	0.99	0.70	23.3
North: Wallgrove Road (north)											
7	L2	2	6.0	0.478	27.4	LOS B	17.0	125.3	0.71	0.63	47.1
8	T1	895	6.0	0.478	20.9	LOS B	17.0	125.3	0.71	0.62	50.0
9	R2	102	9.3	0.431	25.5	LOS B	2.6	19.7	0.83	0.77	44.4
Approach		999	6.3	0.478	21.4	LOS B	17.0	125.3	0.72	0.64	49.4
West: Wonderland Dr											
10	L2	376	7.3	0.213	4.5	LOS A	0.0	0.0	0.00	0.46	47.7
11	T1	1	6.0	0.360	46.8	LOS D	6.1	45.0	0.92	0.78	29.5
12	R2	233	6.8	0.360	51.4	LOS D	6.1	45.0	0.92	0.78	29.4
Approach		609	7.1	0.360	22.4	LOS B	6.1	45.0	0.35	0.58	38.6
All Vehicles		2984	6.4	0.674	23.8	LOS B	27.6	203.2	0.68	0.70	44.6

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Queue Distance m	Prop. Queued	Effective Stop Rate per ped	
P2	East Full Crossing	5	18.7	LOS B	0.0	0.0	0.56	0.56	
P3	North Full Crossing	5	54.2	LOS E	0.0	0.0	0.95	0.95	
P4	West Full Crossing	53	20.5	LOS C	0.1	0.1	0.58	0.58	
All Pedestrians		63	23.1	LOS C			0.61	0.61	

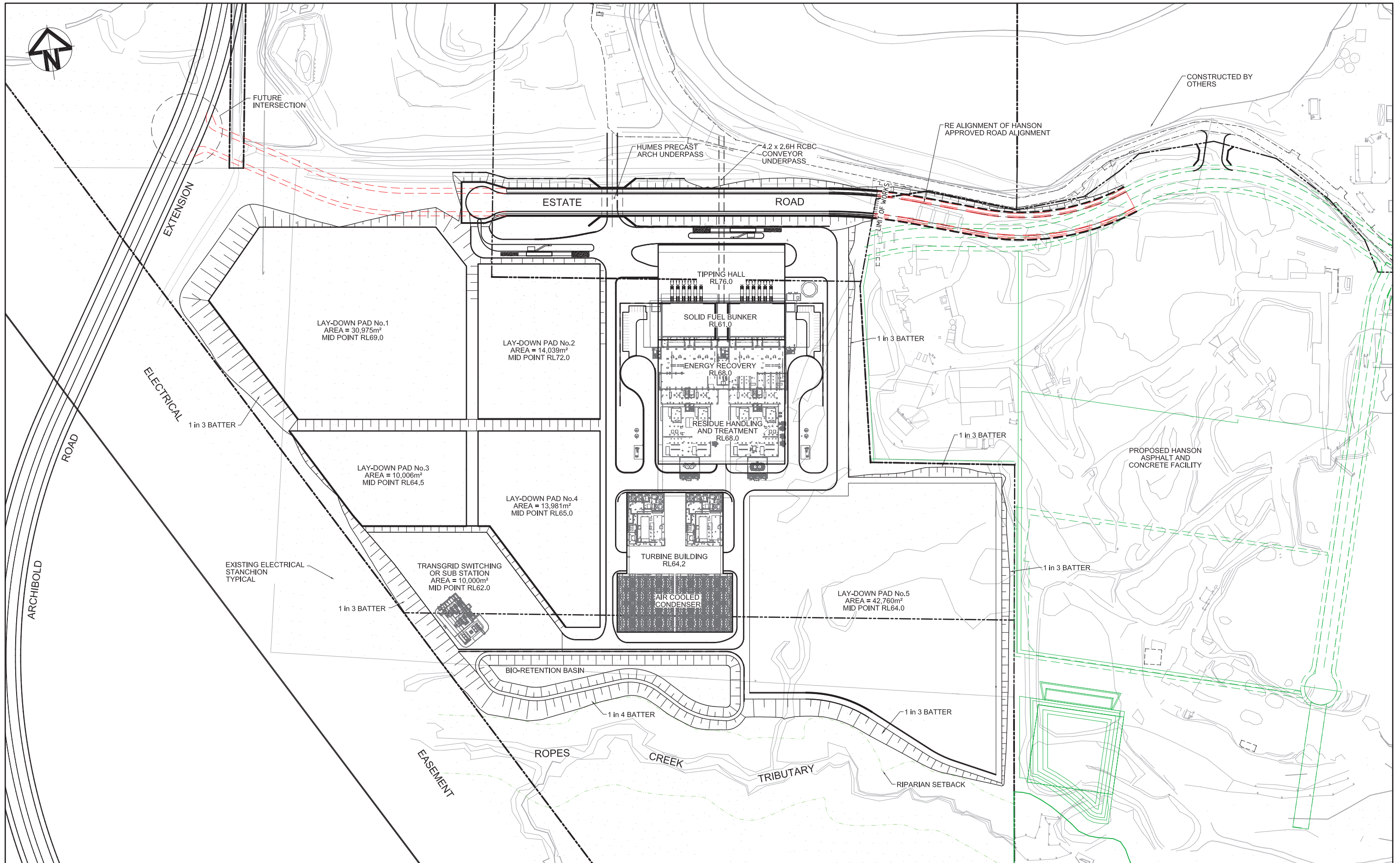
Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)

Pedestrian movement LOS values are based on average delay per pedestrian movement.

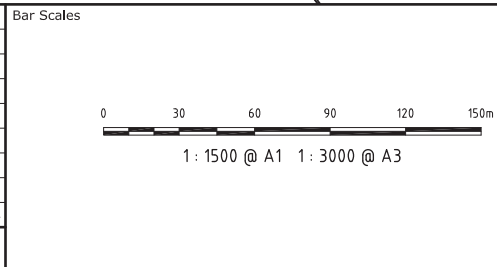
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

Appendix C

Reduced Plans



B	BUNKER AND PAD 5 AMENDED	12-06-14
A	ISSUED FOR INCLUSION WITH REPORTS	20-05-14
Issue	Description	Date



THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client
THE NEXT GENERATION PTY LTD

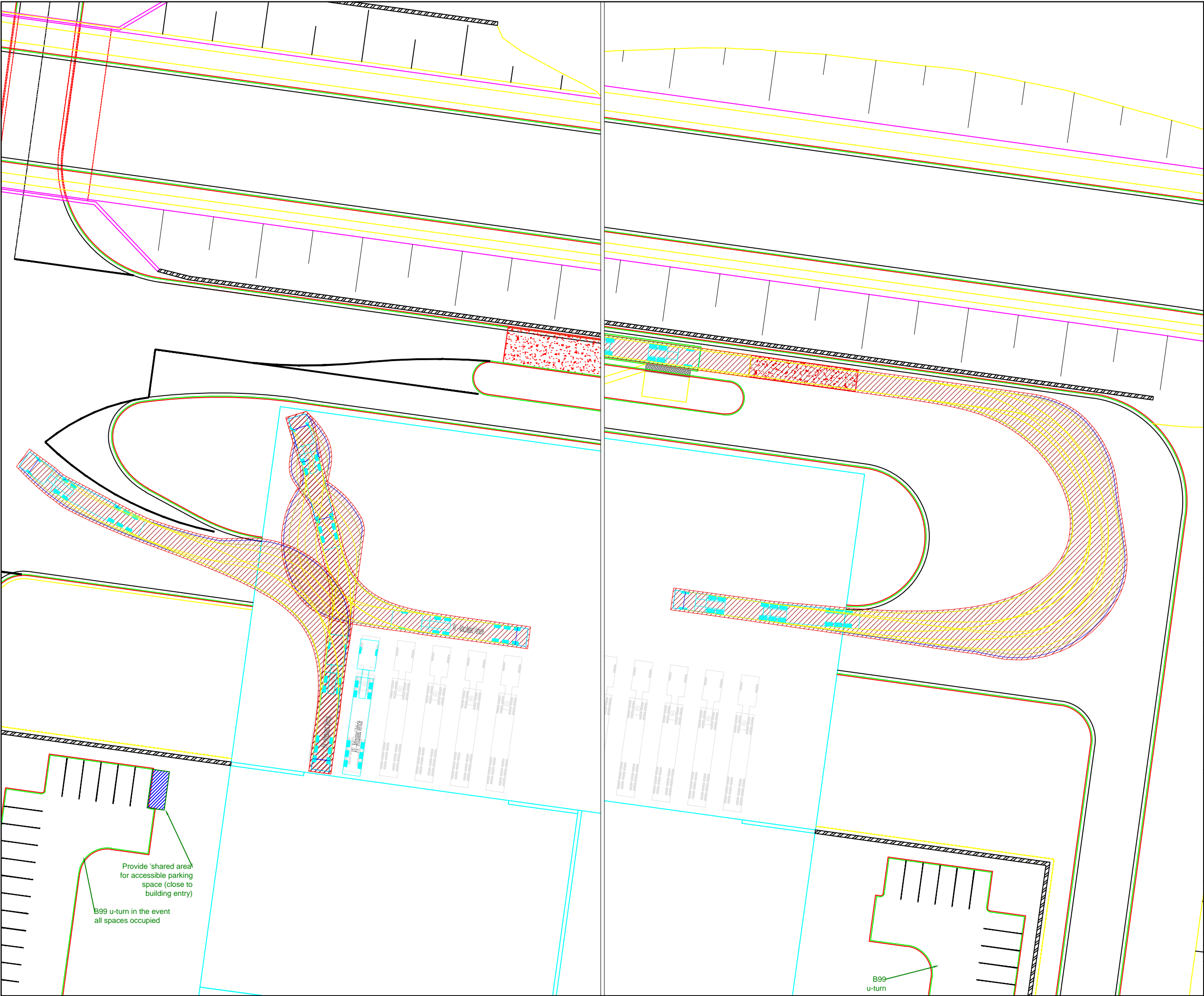
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	Checked	MM
	Approved	
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Height Datum	AHD	


Project ENERGY FROM WASTE ELECTRICITY GENERATION PLANT, EASTERN CREEK	
Title GENERAL ARRANGEMENT PLAN	

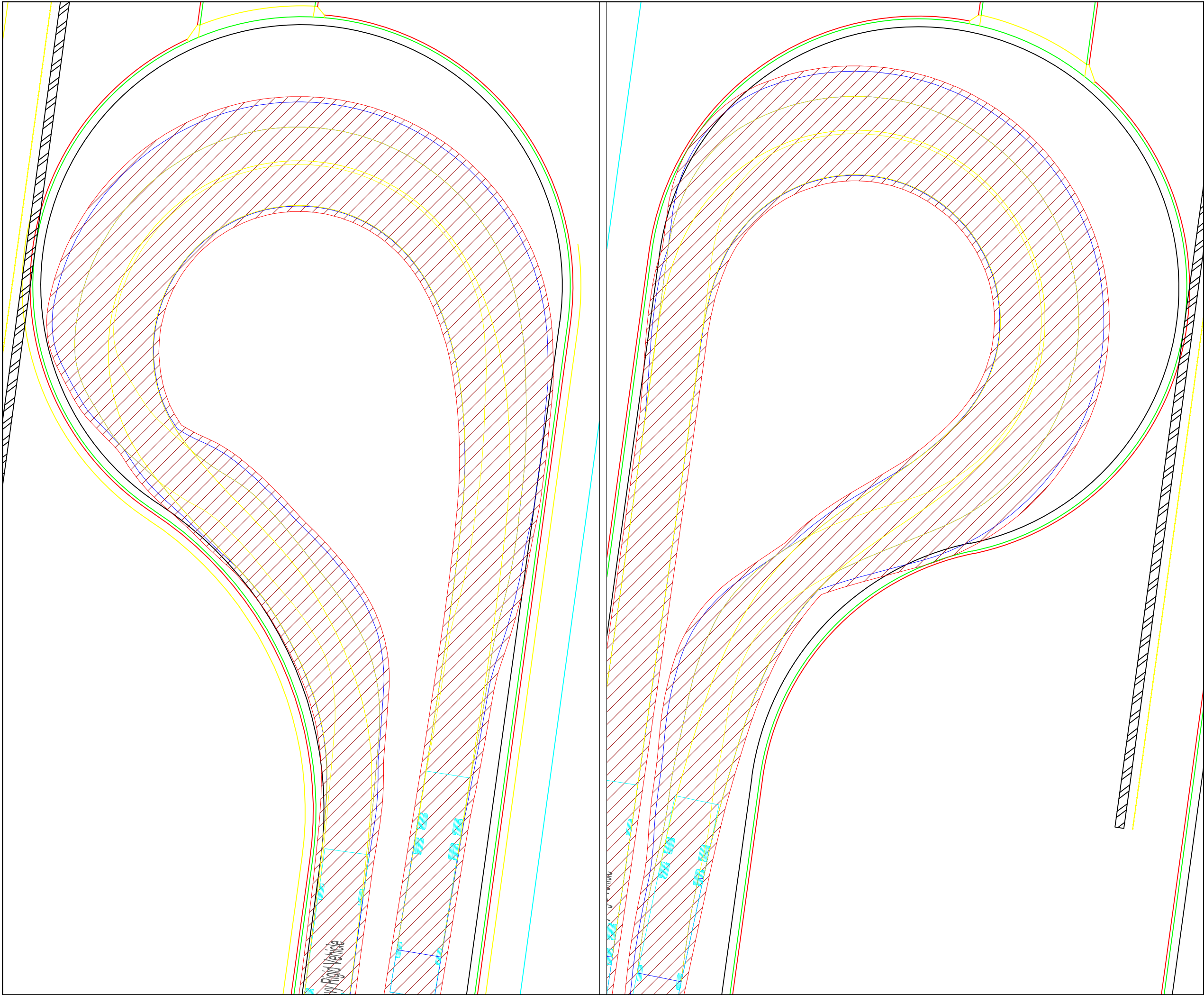
Civil Engineers and Project Managers at&l Suite 702, 154 Pacific Hwy St Leonards NSW 2055 ABN 98 130 882 405 Tel: 02 9439 1777 Fax: 02 9460 8413 www.atl.net.au info@atl.net.au		
Status FOR REVIEW NOT TO BE USED FOR CONSTRUCTION	Project No. 14-187	Issue B


Appendix D

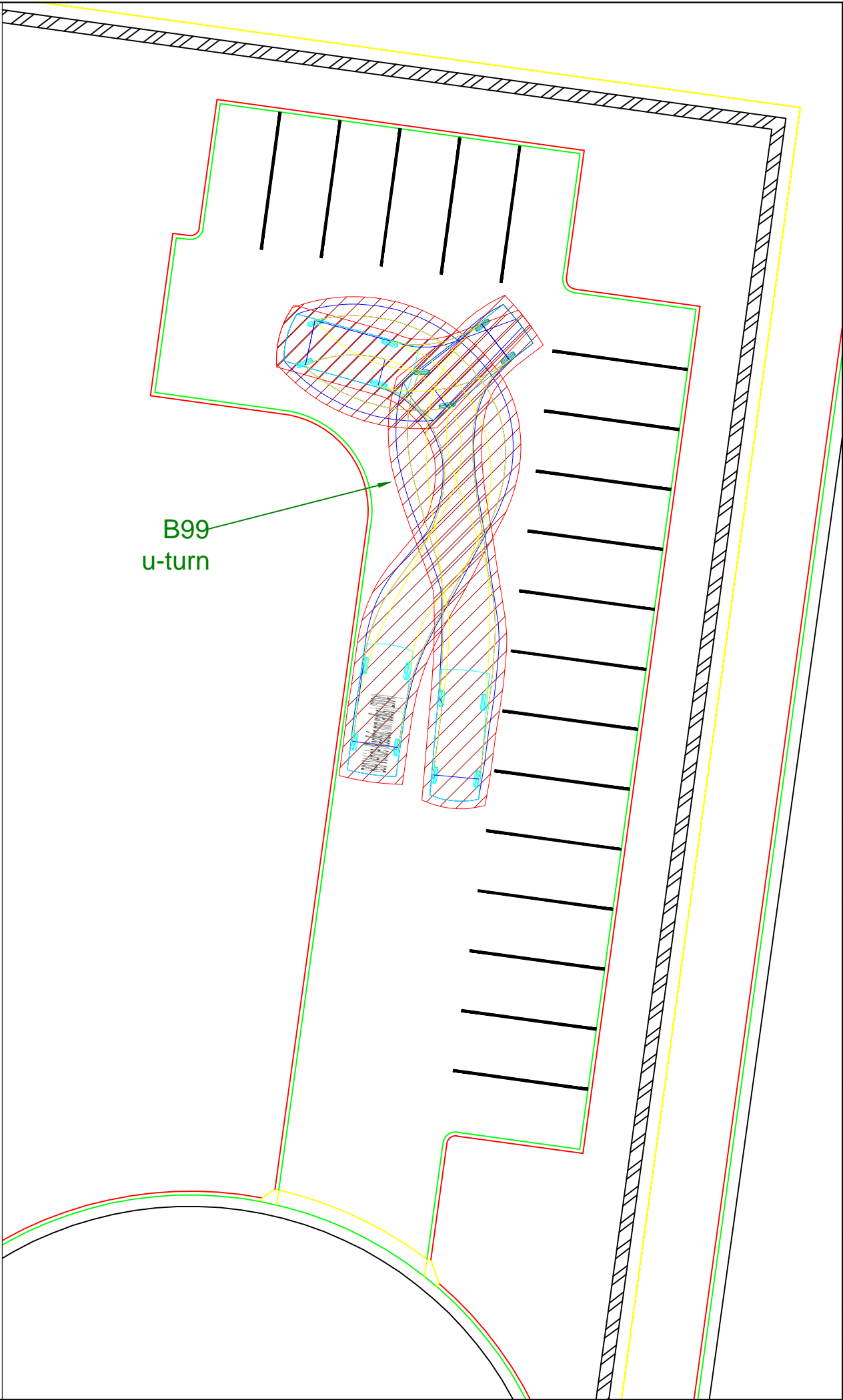
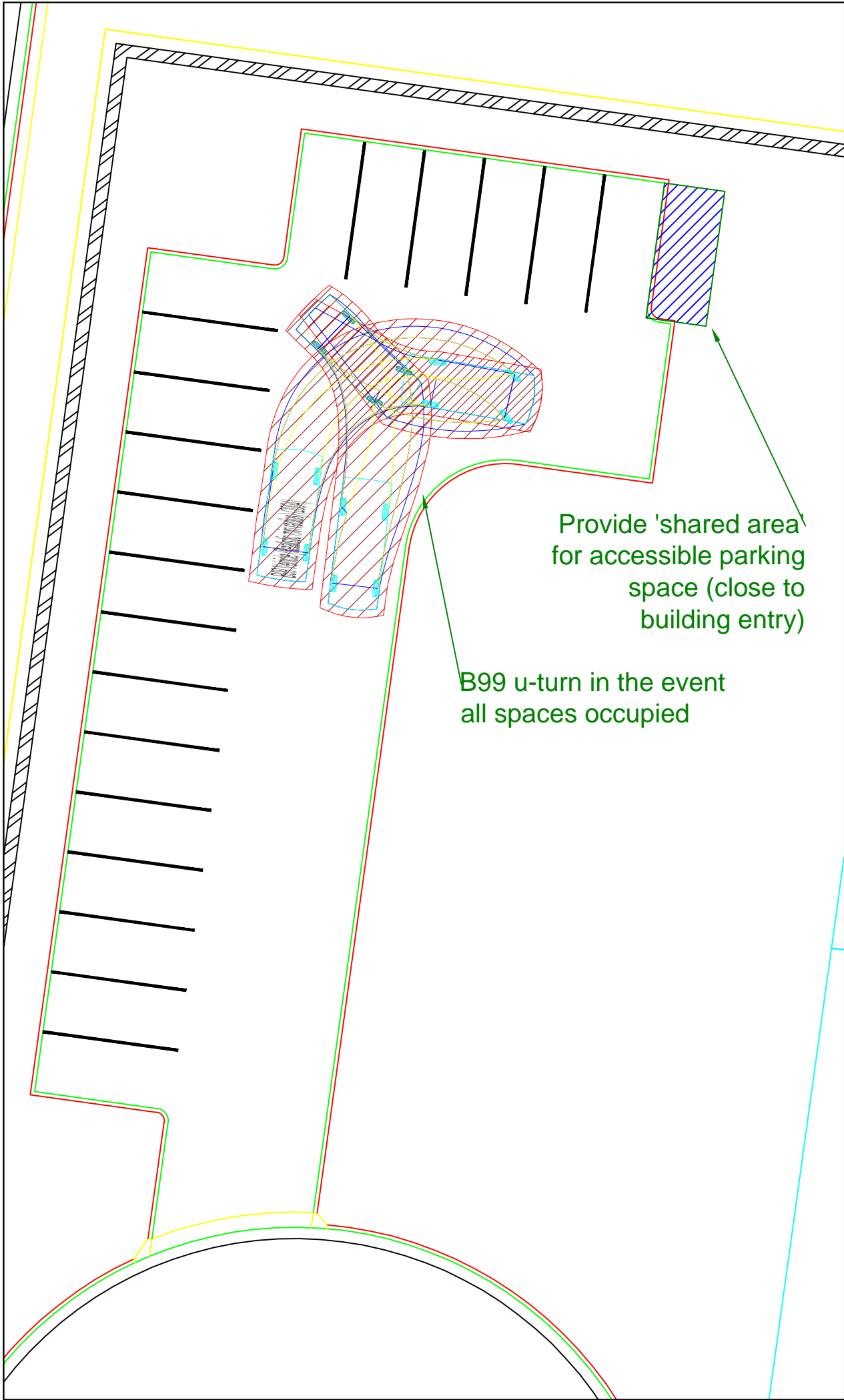
Swept Paths & Design Comments




no.		revision note		by.		date	
<div>project manager</div> <div>Urbis</div>							
<div>client</div> <div>The Next Generation NSW</div>							
<div>scale</div> <div>1:500 @ A3</div> <div><div>0</div><div>5</div><div>10</div><div>15</div><div>20</div><div>m</div></div> <div><div>0</div><div>5</div><div>10</div><div>15</div><div>20</div><div>m</div></div>							
<div>project</div> <div>Energy from Waste Facility, Eastern Creek</div>							
<div>drawing prepared by</div> <div><div>TRAFFIX</div><div>traffic and transport planners</div><div>suite 3.08 46a macleay street potts point NSW 2011 PO Box 1061 potts point nsw 1035 t: +61 2 8324 8700 f: +61 2 9380 4481 e: info@traffix.com.au</div></div> <div><div></div><div>traffix traffic & transport planners</div></div>							
<div>drawing title</div> <div>Swept Paths 26m B-Double Turning to Tipping Area & 19m semi-trailer reversing to unloading area</div>							
drawn:		TL		checked:		-	
date:		13-Jun-14		date:		13-Jun-14	
13.519		DA		TX.02		-	
project no.		drawing phase.		drawing no.		rev	



no. revision note				by. date	
project manager Urbis					
client The Next Generation NSW					
scale 1:200 @ A3 0m 2 4 6 8					
project Energy from Waste Facility, Eastern Creek					
drawing prepared by TRAFFIX traffic and transport planners suite 3.08 46a macleay street potts point NSW 2011 PO Box 1061 potts point nsw 1035 t: +61 2 8324 8700 f: +61 2 9380 4481 e: info@traffix.com.au					
 traffix traffic & transport planners					
drawing title Swept Paths 12.5m Rigid Truck (HRV)					
drawn: TL		checked: -		date: 13-Jun-14	
13.519 DA TX.03 -					
project no.		drawing phase.		drawing no. rev	



no. revision note		by. date	
project manager Urbis			
client The Next Generation NSW			
scale 1:200 @ A3 0m 2 4 6 8			
project Energy from Waste Facility, Eastern Creek			
drawing prepared by TRAFFIX traffic and transport planners suite 3.08 46a macleay street potts point NSW 2011 PO Box 1061 potts point nsw 1035 t: +61 2 8324 8700 f: +61 2 9380 4481 e: info@traffix.com.au			
 traffix traffic & transport planners			
drawing title Swept Paths & Car Park Design Comments B99 U-turn			
drawn: TL	checked: -	date: 13-Jun-14	
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