Prepared by: DA: 19/1183





Prepared for:



LGA:

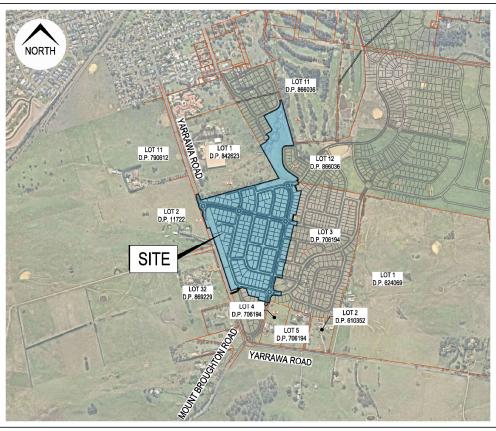


No.	PLAN	REV
PRELIMI	NARIES	
DA 000	COVER SHEET & PLAN INDEX	D
DA 001	GENERAL LAYOUT PLAN, NOTES & LEGEND	D
DA 002	DEMOLITION & TREE REMOVAL PLAN	D
DA 003	SITE REGRADING PLAN	D
DA 004	SITE SECTIONS SHEET 01 OF 05	D
DA 005	SITE SECTIONS SHEET 02 OF 05	D
DA 006	SITE SECTIONS SHEET 03 OF 05	D
DA 007	SITE SECTIONS SHEET 04 OF 05	D
DA 008	SITE SECTIONS SHEET 05 OF 05	D
DA 009	ROAD HIERARCHY PLAN	D
SEDIMEN	IT & EROSION CONTROL	
DA 100	SOIL & WATER MANAGEMENT PLAN	D
DA 101	SOIL & WATER MANAGEMENT PLAN NOTES & DETAILS	D
ENGINEE	RING & ROADWORKS	
DA 200	ENGINEERING PLAN SHEET 01 OF 07	D
DA 201	ENGINEERING PLAN SHEET 02 OF 07	D
DA 202	ENGINEERING PLAN SHEET 03 OF 07	D
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DA 205	ENGINEERING PLAN SHEET 06 OF 07	D
DA 206	ENGINEERING PLAN SHEET 07 OF 07	D
DA 300	TYPICAL ROAD CROSS SECTIONS SHEET 01 OF 02	D
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DA 302	ROAD LONG SECTIONS SHEET 01 OF 08	D
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DA 401	INTERIM POST DEVELOPED CATCHMENT PLAN	D
DA 402	ULTIMATE POST DEVELOPED CATCHMENT PLAN	D
DA 403	MUSIC CATCHMENT PLAN (WATER QUALITY)	D
DA 404	BASIN LAYOUT PLAN	D
DA 405	BASIN SECTIONS & DETAILS	D
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DA 500	12.5m VEHICLE TURNPATH PLAN SHEET 01 OF 15	D
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DA 600	COMBINED SERVICES LAYOUT PLAN SHEET 01 OF 07	D
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DA 606	COMBINED SERVICES LAYOUT PLAN SHEET 07 OF 07	D

PI AN INDEX





SITE / LOCATION (Image courtesy of Nearmap 08.04.2019)

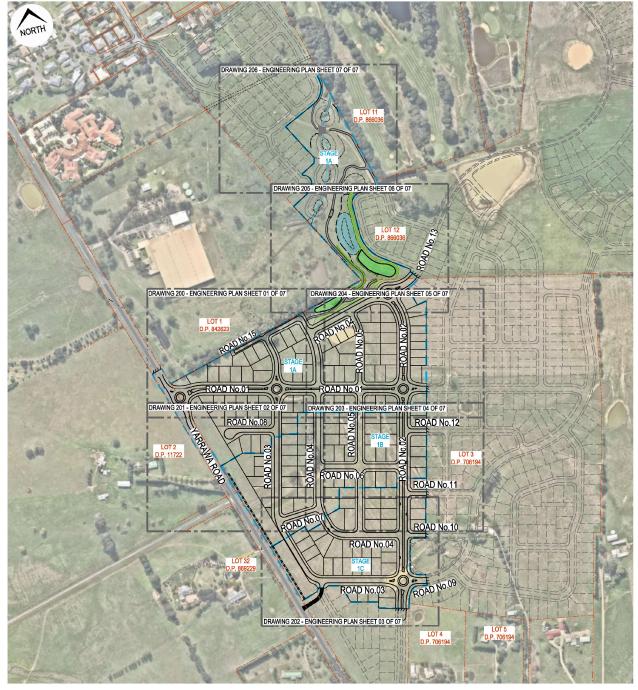
LOT 3 D.P. 706194 LOT 12 D.P. 866036

STAGE 1 32 LOVELLE STREET & 141 YARRAWA ROAD, MOSS VALE,

ROAD AND DRAINAGE DESIGN

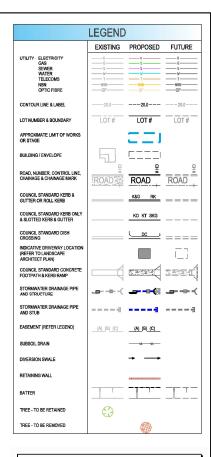
FOR DEVELOPMENT APPLICATION

NOT FOR CONSTRUCTION



Wingscarribee

DEVELOPMENT CONSENT
Approved pursuit to 4.1 6 are 4.2(4) of the
Environmental Planning and Assessment Act
1979
20/02/2
Determination Date: 14/06/22



UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.

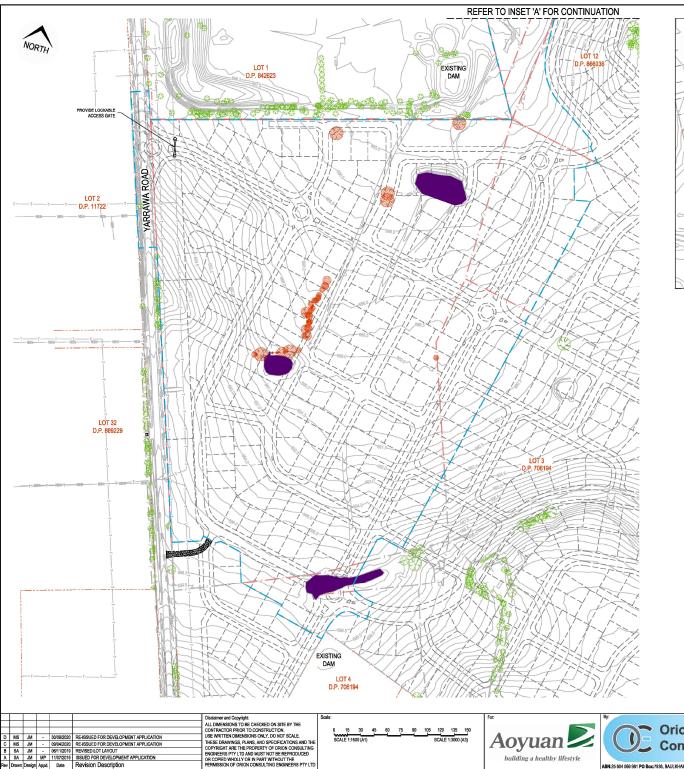
GENERAL NOTES

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH WINGECARRIBEE COUNCIL'S WORKS SPECIFICATION CIVIL (CURRENT EDITION) AND/OR AS DIRECTED BY THEIR REPRESENTATIVE
- THE CONTRACTOR IS TO IDENTIFY, LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS AND WHERE NECESSARY MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST WHERE
- 3 COUNCIL'S TREE PRESERVATION ORDER MUST BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT THE PRIOR APPROVAL OF COUNCIL.
- 4 DIMENSIONS SHALL NOT BE SCALED FROM THE PLANS, CLARIFICATION OF DIMENSIONS SHALL BE SOUGHT FROM THE SUPERINTENDENT OR REFERRED TO THE DESIGNER.
- ALL NEW WORK IS TO MAKE A SMOOTH JUNCTION WITH THE EXISTING CONDITIONS.



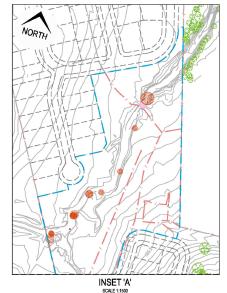
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THESE DRAWINGS, PLANS, AND, SPECIFICATIONS AND THE
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B SA JM - 06/11/2019 REVISED LOT LAYOUT Consulting 141 YARRAWA ROAD, MOSS VALE, SA JM MP 11/07/2019 ISSUED FOR DEVELOPMENT APPLICATION building a healthy lifestyle **ROAD & DRAINAGE DESIGN** Project No. 19-34 Set No 01 001 DA Revision Description Drawn Design Appd. Date ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com



Revision Description

Drawn Design Appd. Date



LEGEND EXISTING CONCRETE TO BE DEMOLISHED AND REMOVED OFFSITE TO APPROVED WASTE FACILITY EXISTING DAM TO BE DEWATERED AND FILLED & COMPACTED TO COUNCIL'S SEPCIFICATIONS EXISTING FENCE TO BE REMOVED EXISTING TREES TO BE REMOVED EXISTING TREES TO REMAIN EXISTING CONTOURS APPROXIMATE LIMIT OF WORKS

- CONTRACTOR TO GAIN ALL NECESSARY APPROVALS & PERMITS TO DEMOLISH, CAP OR REMOVE EXISTING SERVICES AS REQUIRED. CONTRACTOR TO ALLOW FOR THE DEMOLITION OF ALL EXISTING STRUCTURES & FEATURES (ABOVE & BELOW GROUND) ON THE SITE REQUIRED, INCLUDING BUILDINGS,
 - FENCES, EXISTING PAVEMENT, DRAINAGE, SIGNS ETC.

CONTRACTOR TO ESTABLISH EXTENT OF ALL EXISTING SERVICES WITHIN THE EXTENT OF WORKS.

- ALL DEMOLITION WORKS SHALL COMPLY WITH THE PROVISIONS OF AS2601:2001 THE DEMOLITION OF STRUCTURES. 5. REMOVAL OF EXISTING ELECTRICAL INFRASTRUCTURE TO BE
- COMPLETED IN ACCORDANCE ELECTRICAL CONSULTANTS SPECIFICATIONS & DRAWINGS.
- EXISTING SERVICES TO BE LOCATED FROM DBYD PLANS AND ONSITE SERVICES LOCATION.
- TREE REMOVAL SHALL BE IN ACCORDANCE WITH WINGEGARRIDEE SHIRE COUNCIL'S REQUIREMENTS AND SPECIFICATIONS.



UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.

ISSUED DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION

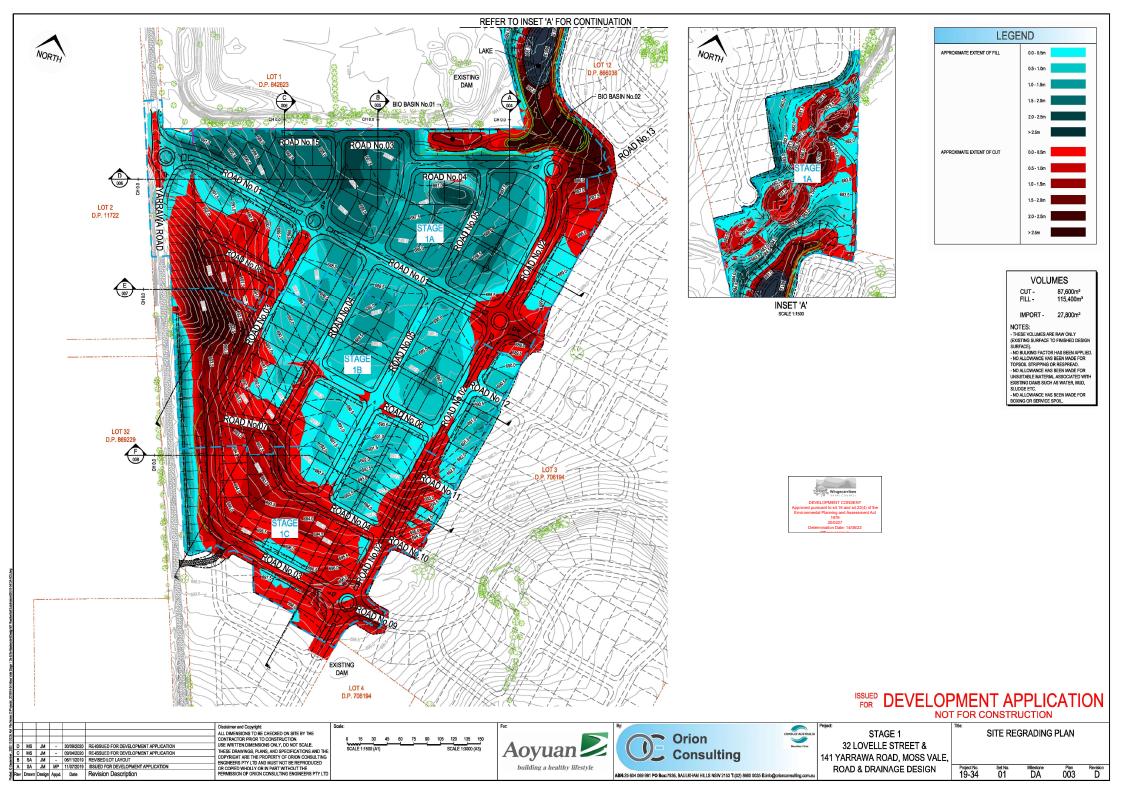
Orion Consulting building a healthy lifestyle ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.a

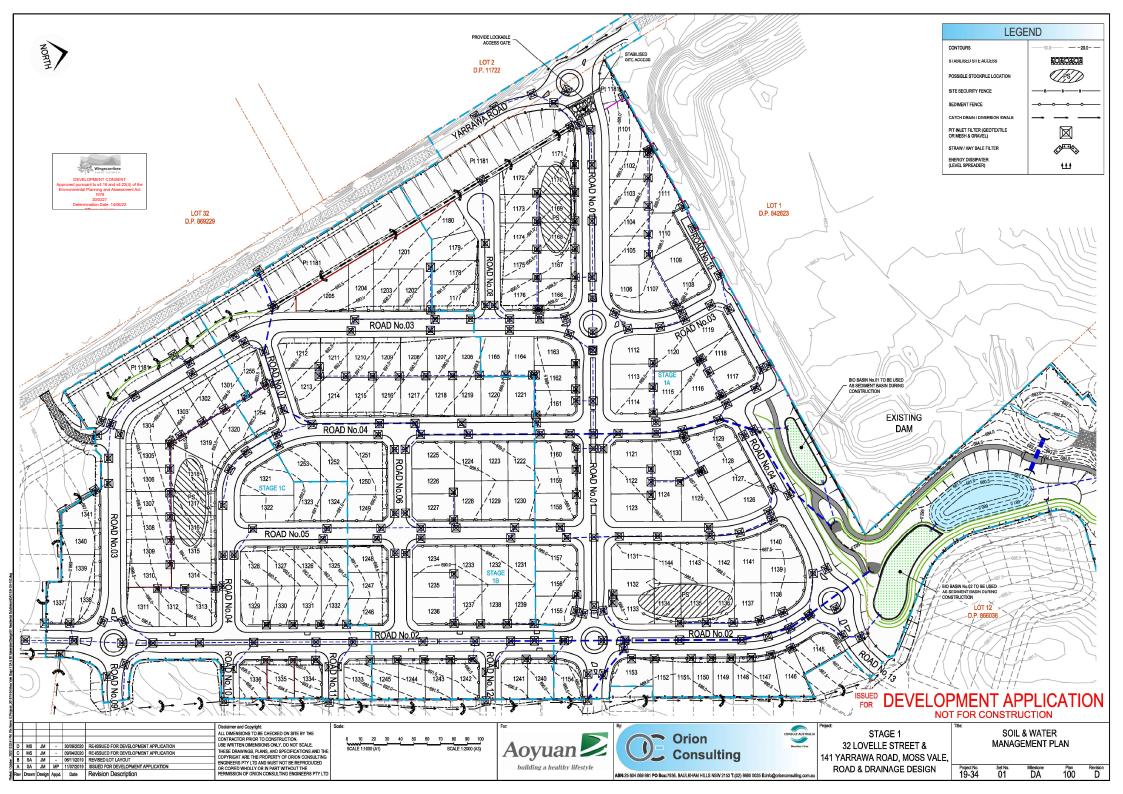
STAGE 1 32 LOVELLE STREET & 141 YARRAWA ROAD, MOSS VALE, ROAD & DRAINAGE DESIGN

DEMOLITION & TREE REMOVAL PLAN

Project No. 19-34 Set No 01 DA

002





GENERAL NOTES:

- ALL EROSION AND SEDIMENT CONTROL MEASURES. INCLUDING REVEGETATION AND STORAGE OF SOIL AND TORSOIL SHALL BE IMPLEMENTED TO THE REQUIREMENTS. OF THE "ENVIRONMENT PROTECTION AUTHORITY" AND "DEPT OF LAND AND WATER CONSERVATION", MEASURES OUTLINED IN THE SEDIMENT & EROSION CONTROL PLA
- TOPSOIL FROM ALL AREAS TO BE DISTURBED SHALL BE STOCKPILED AND LATER RESPREAD TO AID REVEGETATION IN THOSE AREAS.
- ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILIZED AS EARLY AS POSSIBLE DURING DEVELOPMENT
- ALL TAIL-OUT DRAINS SHALL BE GRASSED AND TRAPEZOIDAL IN SECTION, STRAW BALES SHALL BE PLACED AS A SEDIMENT CONTROL DEVICE WHERE REQUIRED.
- VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING DEVELOPMENT CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS, AREAS TO BE LEFT UNDISTURBED SHALL BE MARKED OFF.
- DISTURBANCE OF VEGETATION SHALL BE LIMITED TO FILL AREAS, ROADWAYS AND DRAINAGE LINES. NO LOT GRADING SHALL BE CARRIED OUT IN UNDISTURBED AREAS WITHOUT CONSULTATION WITH COUNCIL'S ENGINEER.
- ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN 14 WORKING DAYS FROM THE CONCLUSION OF LAND SHAPING
- MINIMISE DUST BY WATERING WHEN REQUIRED.

STOCKPILE NOTES:

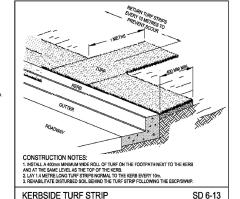
- SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
- IO. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 14 DAYS THEN THEY SHALL BE STABILIZED BY COVERING WITH A MULCH OR WITH TEMPORARY
- FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACES AND REVEGETATE.
- 12. ALL STOCKPILES TO BE (MAX) 2m HIGH AND PROTECTED WITH SILT FENCE.

SPECIAL NOTES:

- 13. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE.
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE GUIDELINES SET OUT IN "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION" -4TH EDITION AND THE ACCOMPANYING ROAD AND DRAINAGE PLANS.
- 15. CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT
- . MANAGEMENT DEVICES SHALL BE MAINTAINED ON A REGULAR BASIS. WHERE CLEANING IS REQUIRED, THE SEDIMENT SHALL BE REMOVED TO A POINT NOMINATED BY THE ENGINEER.
- 7. PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS, AND AFTER THE ROAD CENTRELINES HAVE BEEN PEGGED AND/OR PERMANENTLY MARKED, THE SITE MUST BE INSPECTED BY COUNCIL'S REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE TO IDENTIFY AND APPROPRIATELY a) THE TREES TO BE RETAINED
- b) ALL TREES TO BE LEFT UNDISTURBED AND TO BE CORDONED OFF.
- 18. NO TREES SHALL BE REMOVED WITHOUT COUNCIL'S CLEARANCE.
- 19. MANAGEMENT DEVICES TO REMAIN UNTIL THE END OF THE MAINTENANCE PERIOD

SEDIMENTATION CONTROL DEVICES:

- 20. ALL STRAW BALES SHALL BE BOUND WITH WIRE. STRAW BALES SHALL BE PLACED END TO END IN A SINGLE ROW AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm, EACH BALE SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 450mm INTO THE GROUND AND LOCATED ON THE BALE CENTRE LINE.
- . SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 2m (3m MAX) CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.



SPILL WAY

TORAGE ZONE 750 mm MIN.

REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.

2. CONSTRUCT A CUT-OFF TRENCH 500 MM DEEP AND 1,200 MM WIDE ALONG THE CENTRELINE OF THE

EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.

3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS

4. SELECT FILL FOLLOWING THE SWIMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR

5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100 MM TO HELP BOND

PREPARE THE STIE UNDER THE EMBANGMENT BY RIPPING TO AT LEAST TOO MM TO RELP BOND
 COMPACTED FILL TO THE EXISTING SUBSTRATE.
 SPREAD THE FILL IN 100 MM TO 150 MM LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT

CONSTRUCT THE EMERGENCY SPILLWAY. 8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.

LENGTHAVIDTH RATIO 3:1 MIN.

CROSS-SECTION

CONSTRUCTION NOTES:

EARTH BASIN - WET

RIGINAL GROUND LEVEL

600 mm MIN.

WATER DEPTH 1 500 mm MIN.

SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.

(APPLIES TO TYPE D' AND TYPE F' SOILS ONLY)

FARTH EMBANKMENT

CLIT-OFF TRENCH 600 MM MI

DEPTH BACKFILLED WITH IMPERMEABLE CLAY AND COMPACTED

₹,

CREST OF SPILLWAY

EARTH BANK STABILISE STOCKPILE -

CONSTRUCTION NOTES:

- D. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EX CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
- 3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
- 4. ALL STOCKPILES ARE TO BE LOCATED AND PLACED IN ACCORDANCE WITH THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN
- EROSION AND SEMIMENT CONTROL PURM.

 5. WHERE STOCKPILES ARE TEMPORARY (+14 DAYS) NO STABILISATION IS REQUIRED, REVIEW THE ADEQUACY OF SEDIMENT CONTROLS IF RAINFALL IS PREDICTED.

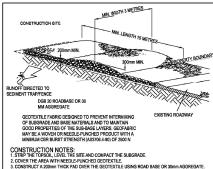
 6. WHERE STOCKPILES ARE TEMPORARY (+14 DAYS) THE FOLLOWING ADDITIONAL CONTROLS ARE

- -MAXIMUM BATTER SLOPE REDUCED TO 1:4
- 75:25 MIX OF SEASONAL AND PERMANENT GRASS SEEDS. AND A STRAW MULCH THICKNESS OF NO
- LESS I HAR SIMIL.

 7. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER

 AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE.

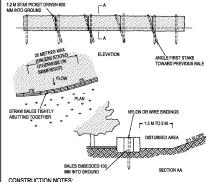
STOCKPILES



- . ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST
- STABILISED ACCESS TO DIVERT WATER TO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE

STABILISED SITE ACCESS

SD 6-14



1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE

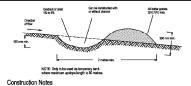
TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES.

TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, SWINGET THEY ARE THE WITH SHEFF V.CAPS.

5. WHERE A STRAW BALE PILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLOCED TO 2 METERS DOWNSLOPE FROM THE TOE.

6. ESTAILS HA DAMINISHAVICE PROGRAM THAT SOURCES THE INTEGRITY OF THE BALES IS RETAINED-THEY COULD REQUIRE REPLACEMENT BOOK THOST OF TO THE BALES IS RETAINED-THEY COULD REQUIRE REPLACEMENT BOOK THOST OF TO THE WORTH.

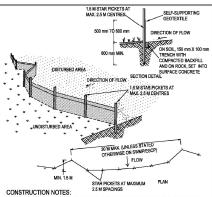
STRAW BALE FILTER SD 6-7



- Build with gradients between 1 percent and 5 percent.
 Avoid removing trees and shrubs if possible work around them
- 3. Ensure the structures are free of projections or other irregularities that could
- 5. Ensure the banks are properly compacted to prevent failure.
- 6. Complete permanent or temporary stabilisation within 10 days of construction

EARTH BANK (LOW FLOW)

SD 5-5



1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RELIGIOUS AS SHOWN IN THE UNKNIVING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL BROUGH TO LIMIT WATER FLOW IT CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE

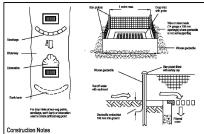
10-YEAR EVENT. 2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE

2. CUT A 159mm DEEP TREMCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FRENCT OR BE BITHEMEDISCH, DISCRETING THE OFFICE AND THE FRENCH AND THE

6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE

SEDIMENT FENCE

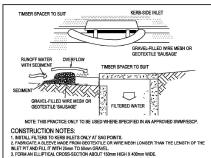
SD 6-8



- . Fabricate a sediment barrier made from geotextile or straw bales. . Follow Standard Drawing 6-8 for installation procedures for geofabric. Reduce the picket
- eys, artificial sag points can be created with sandbags or earth banks as shown
- Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTER

SD 6-12



3. FLAMAN BELLEF ILOJA CHOUSS-SECTION ABOUT 1500MM HIGH 3. QUIDM WILL:

A FLACE THE FETER AT THE O'PENING EVENNOR AT LESS AT 1500MM SPACE BETWEEN IT AND THE KERB
INLET. MANITAM THE O'PENING WITH SPACES REJOCKS.

S. CROMA SASL WITH HE KERB TO ID REPORT SEDURISHT BYPASSING THE FILTER.

8. SANDAGS FLILED WITH GROWLE CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING

THEY ARE PLACED SO THAT THEY FRRIM, Y ABUT EACH OTHER MESH HON SEDMENT LADER WATERS CANNOT

MESH AND GRAVEL INLET FILTER

SD 6-11

1. Erosion Hazard and Sediment Basins Site Name: 141 Yarrawa Road, Moss Vale Site Location Precinct/Stage: Wingecarribe

Soil analysis (enter sediment type if known, or laboratory particle size data

Sediment Type (C, F or D) if known	D	D			From Appendix C (f known)
% sand (fraction 0.02 to 2.00 mm)					Enter the percentage of each soil
% silt (fraction 0.002 to 0.02 mm)					fraction, E.g. enter 10 for 10%
% clay (fraction finer than 0.002 mm)					natur. c.g. ener io ar io a
Dispersion percentage					E.g. enter 10 for dispersion of 10%
% of whole soil dispersible					See Section 6.3.3(e). Auto-calculated
Soil Texture Group	D	D			Automatic calculation from above

Rainfall data See Section 6.3.4 and naticularly Table 6.3 on pages 6-24 and 6-25 x-day v-percentile rainfall event (mm) IFD: 2-year, 6-hour storm (if know

Sail eradibility (K factor) Slope length (m ISLE LS factor calculated for a hig 1.35 1.35 1.3 1.3 1.3 1.3 1.3 control practice (P -factor

Sediment Basin Design Criteria (for Type D/F basins only. Leave blank for Type C basins Minimum is generally 2 months See Table F2, page F-4 in Appe

Soil Loss Class See Table 4.2, page 4-13 See Sections 6.3.4(i) for celculations Sediment besin storage (soil) v dume (m²)

Sediment basin setting (water) volume (m²)

NB for sizing of Type C (coarse) sediment basins, see Worksheet 3 (if required

ISSUED DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION

RE-ISSUED FOR DEVELOPMENT APPLICATION C MS JM - 09/04/2020 RE-ISSUED FOR DEVELOPMENT APPLICATION A SA JM MP 11/07/2019 ISSUED FOR DEVELOPMENT APPLICATION Revision Description v Drawn Design Appd. Date

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SD 4-1







STAGE 1 32 LOVELLE STREET & 141 YARRAWA ROAD, MOSS VALE. **ROAD & DRAINAGE DESIGN**

SOIL & WATER MANAGEMENT PLAN **NOTES & DETAILS** Set No 01

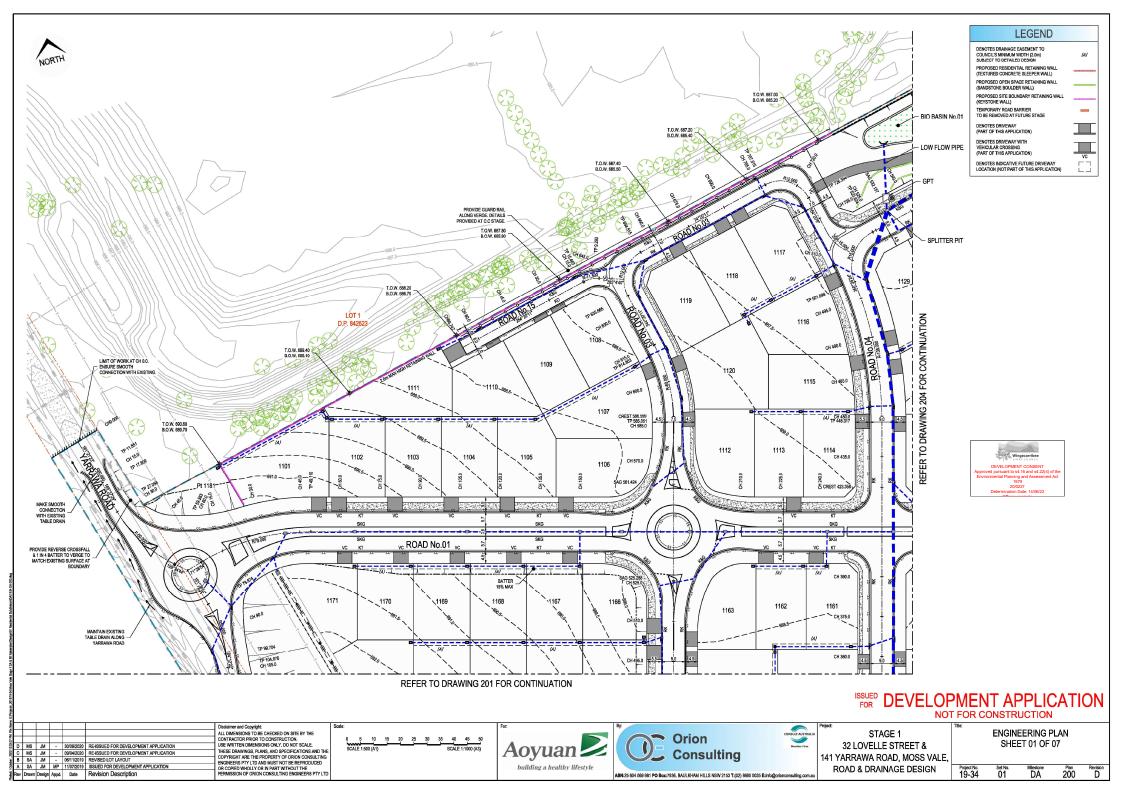
19-34

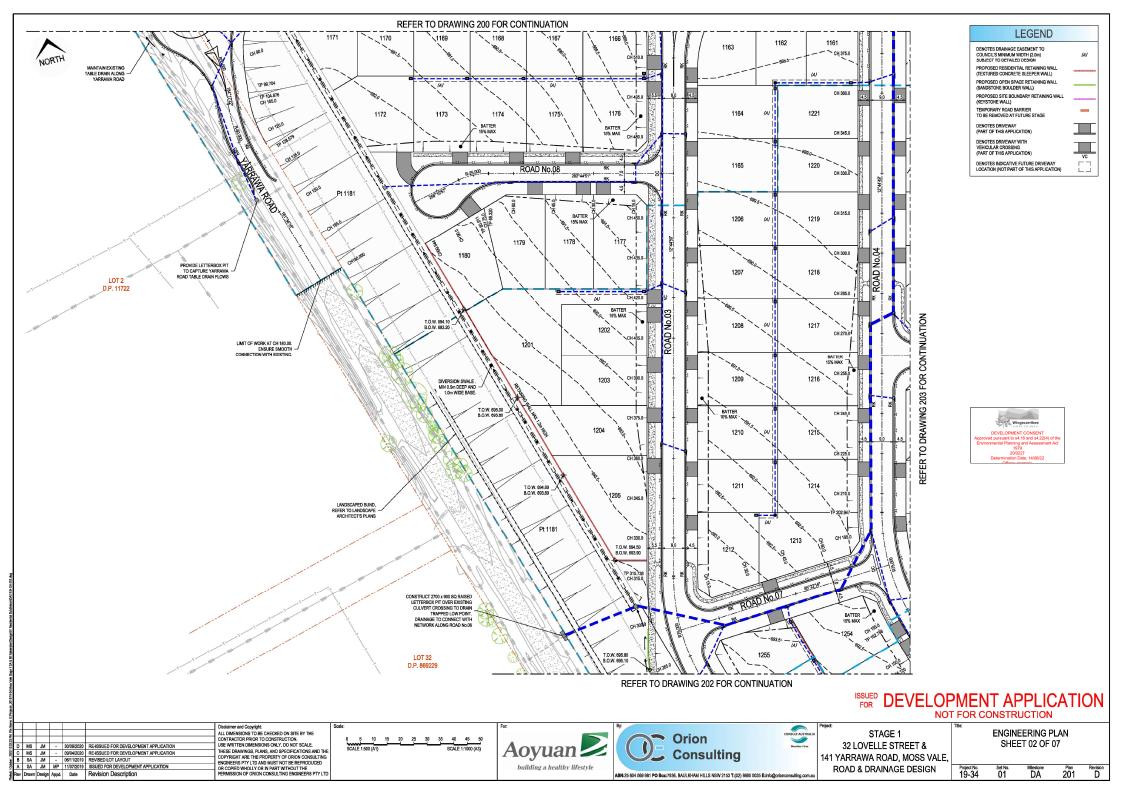
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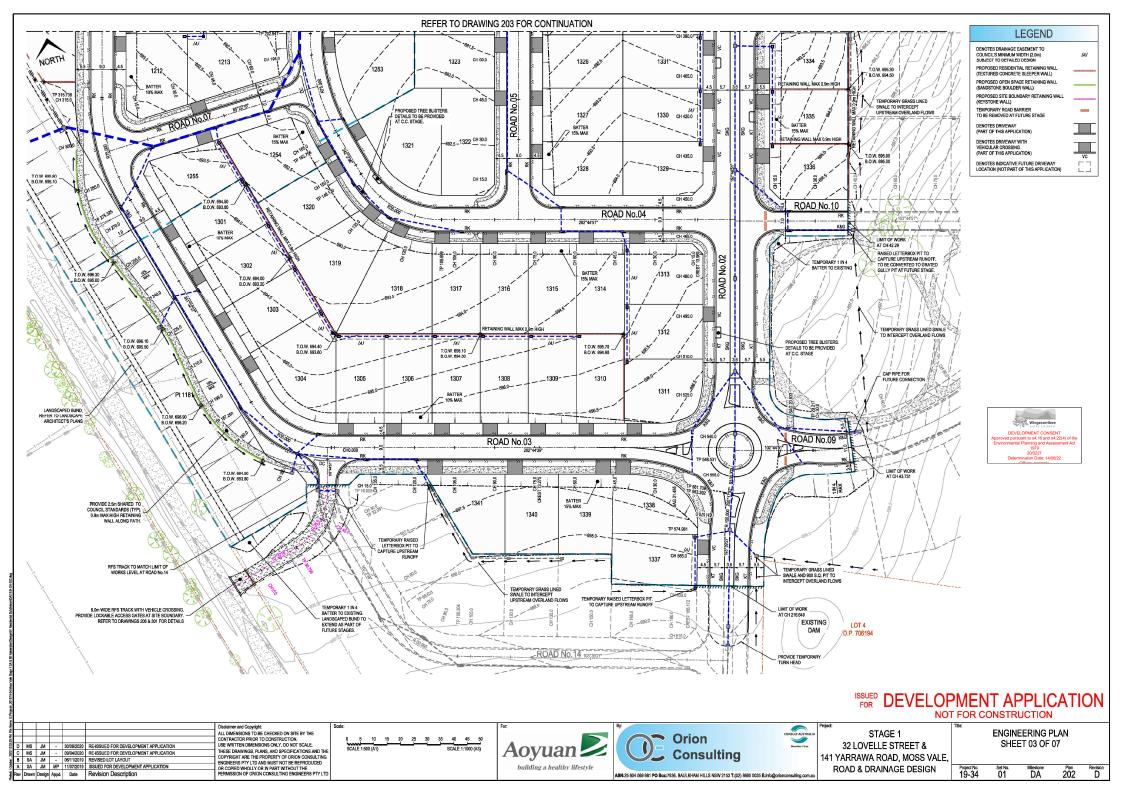
See Sections 6.3.4(i) for calculations

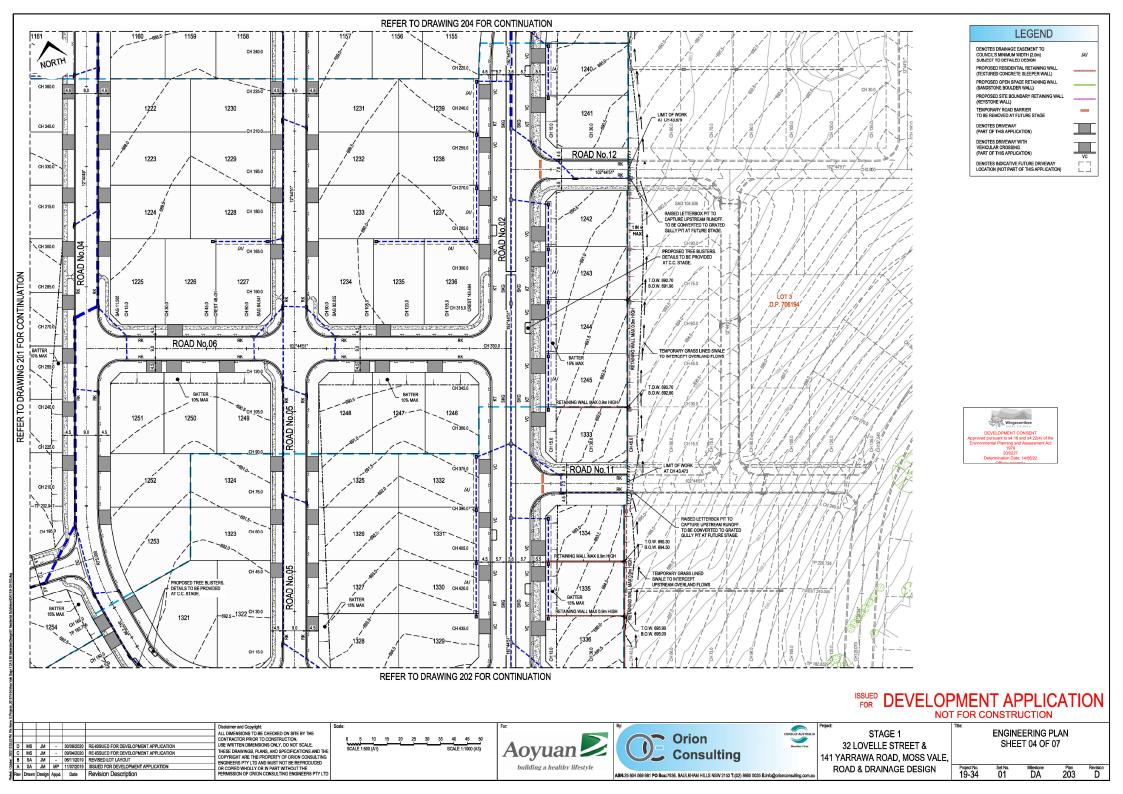


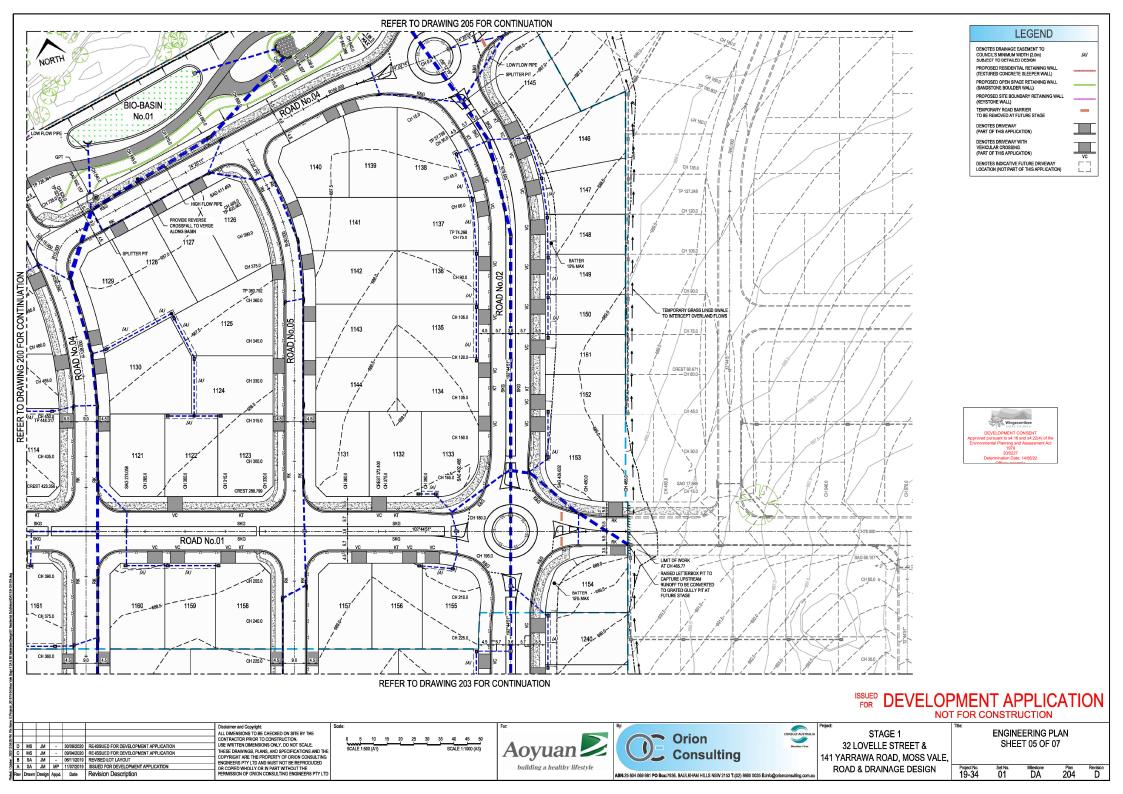
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com.a

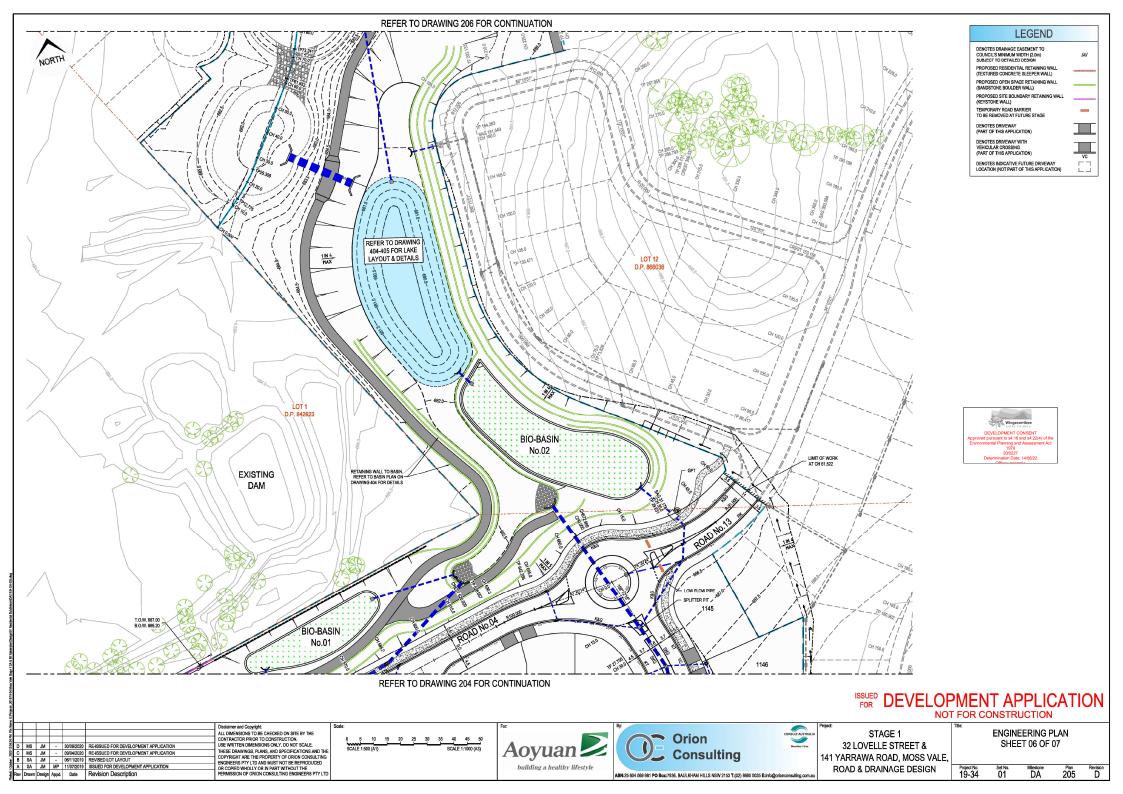


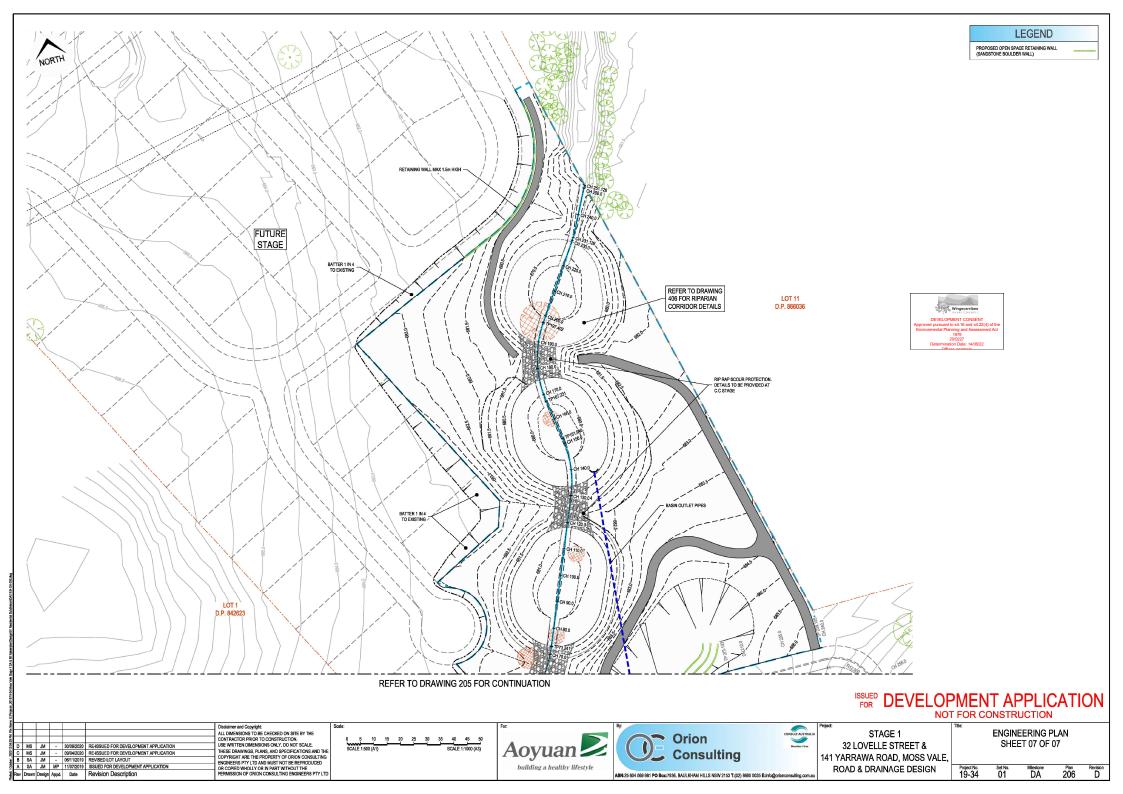


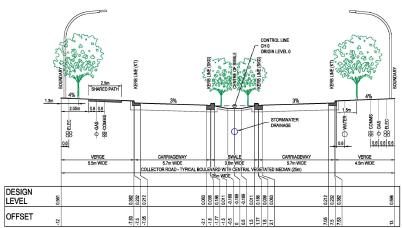




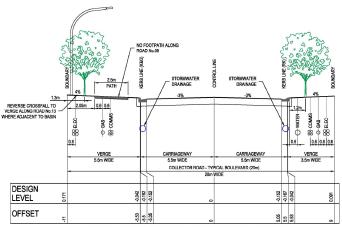




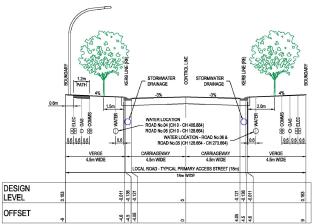




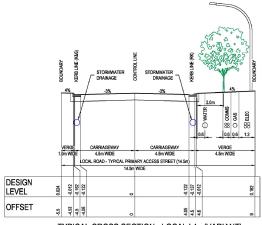
TYPICAL CROSS SECTION - BOULEVARD B1 ROAD No.01 (CH0 - CH421.91) & ROAD No.02



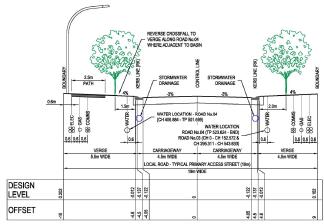
TYPICAL CROSS SECTION - BOULEVARD B3a (VARIANT) ROAD No.01 (CH 421.91- CH 465.77), ROAD No.09 & No.13 SOLE 1:100



TYPICAL CROSS SECTION - LOCAL L1 ROAD No.06, ROAD No.04 (CH 0 - CH 406.884) & ROAD No.05 (CH 0 - CH 273.664) SOALE:1100



TYPICAL CROSS SECTION - LOCAL L1a (VARIANT) ROAD No.03 (CH 157.572 - CH 295.311)

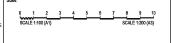


TYPICAL CROSS SECTION - LOCAL L1b (VARIANT) ROAD No.03 (CH 0 - CH 152.572 & CH 295.311 - CH 543.633) & ROAD No.04 (CH 406.884 - END)



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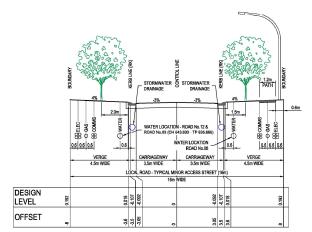




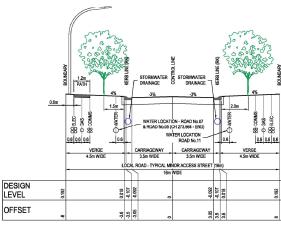
STAGE 1 32 LOVELLE STREET & 141 YARRAWA ROAD, MOSS VALE, ROAD & DRAINAGE DESIGN TYPICAL ROAD CROSS SECTIONS SHEET 01 OF 02

Revision

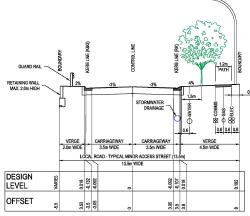
Project No. Set No. Milestone Plan 19-34 01 DA 300



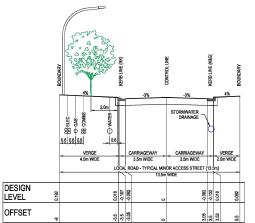
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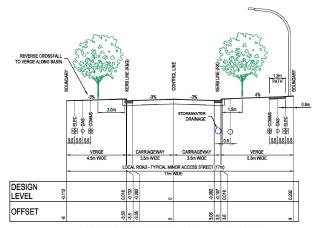
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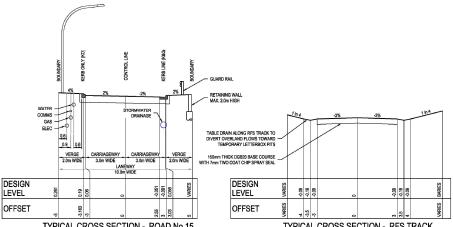
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TYPICAL CROSS SECTION - LOCAL L2b (VARIANT) ROAD No.10 $$_{\text{SOAE}:1:100}$$



TYPICAL CROSS SECTION - LOCAL L2c (VARIANT)
ROAD No.03 (TP 707.515 - END)
SCALE 1100



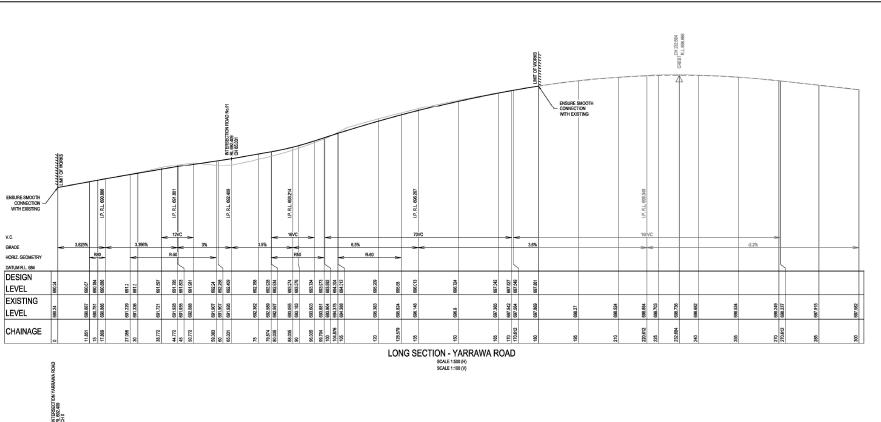
TYPICAL CROSS SECTION - ROAD No.15

TYPICAL CROSS SECTION - RFS TRACK



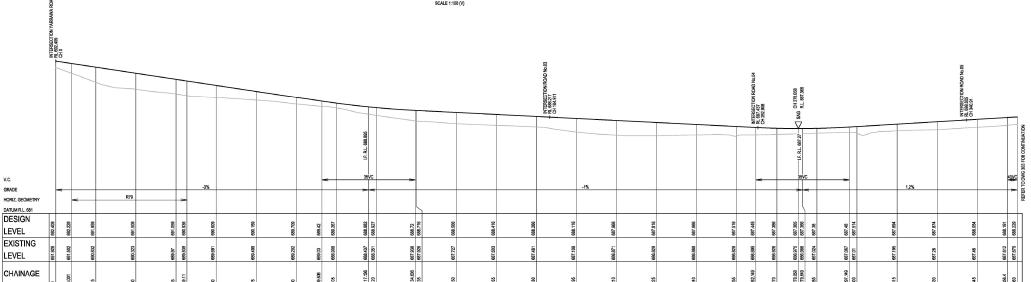
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B SA JM - 06/11/2019 REVISED LOT LAYOUT SHEET 02 OF 02 141 YARRAWA ROAD, MOSS VALE, A SA JM MP 11/07/2019 ISSUED FOR DEVELOPMENT APPLICATION building a healthy lifestyle **ROAD & DRAINAGE DESIGN** Project No. 19-34 Set No 01 Revision DA 301 Revision Description Drawn Design Appd. Date ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@orionconsulting.com



Wingecarribee

DEVELOPMENT CONSENT
Approved pressuant to 415 and 42(4) of the
Environmental Planning and Assessment Act
1978
200027
Determination Date: 14/08/22



LONG SECTION - ROAD No.01 SCALE 1:500 (H) SCALE 1:100 (V)

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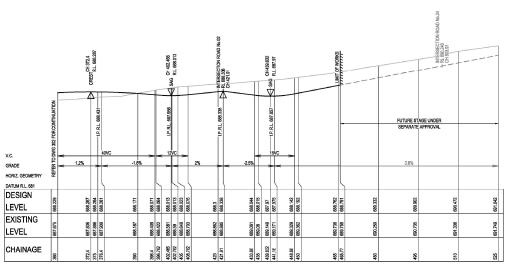
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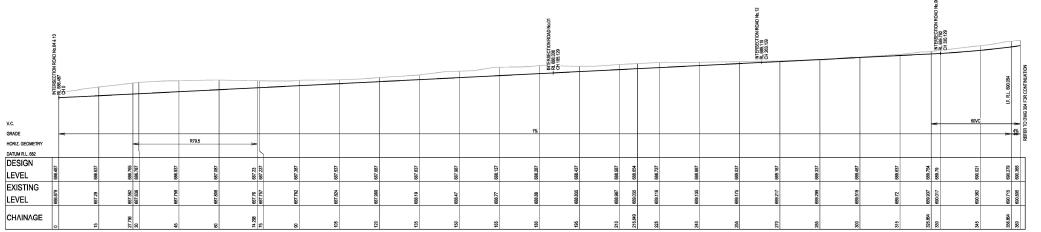
Project No.	Set No.	Miestone	Plan	Revision
19-34	01	DA	302	D
13-34	U I	DΑ	302	U



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DEVELOPMENT CONSENT
Approved pursuant to s4, 16 and s4 22(4) of the
Environmentary Services and Services an

LONG SECTION - ROAD No.01 SCALE 1:500 (H) SCALE 1:100 (V)



LONG SECTION - ROAD No.02 SCALE 1:500 (H) SCALE 1:100 (V)

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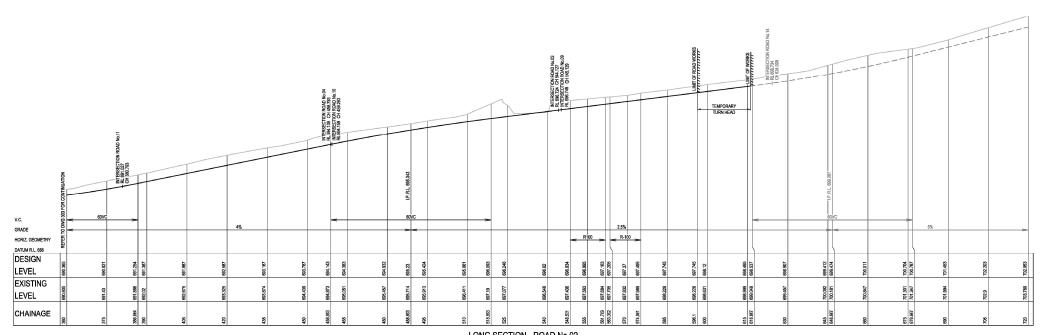




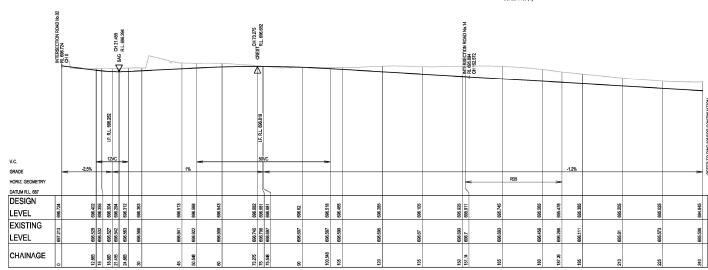
	Project
ALIA	STAGE 1
	32 LOVELLE STREET &
	141 YARRAWA ROAD, MOSS VA
	ROAD & DRAINAGE DESIGN

	Title:	ROAD LONG SECTIONS
REET &		SHEET 02 OF 08
MOSS VALE,		

Project No.	Set No.	Milestone	Plan	Revision
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12-24	V I	DΑ	303	



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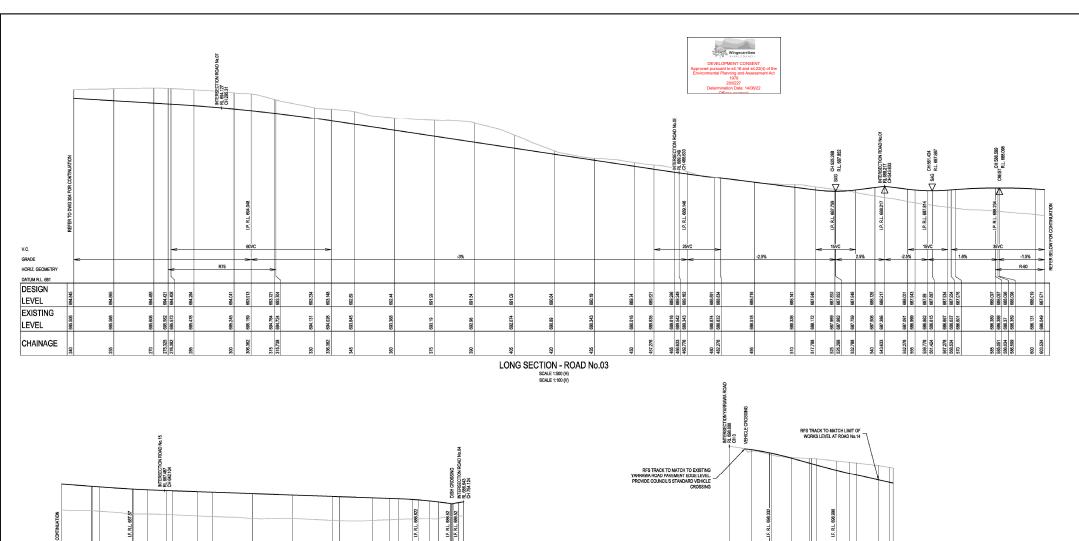


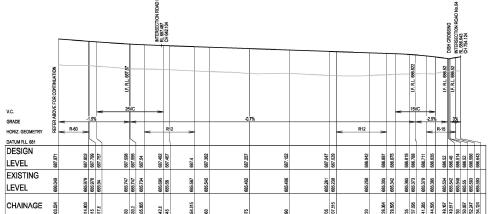
Wingecarribee
DEVELOPMENT CONSENT
Approved pursuant to s 4.1 and s 4.20(4) of the
Environmental Planning and Assessment Act
200227
Delemination Date: 4.106922

LONG SECTION - ROAD No.03 SCALE 1:500 (H) SCALE 1:100 (V)

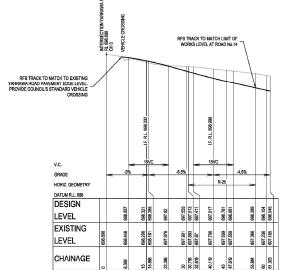
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200 200 PM	ML 3M	- 30/09/2020 - 09/04/2020 - 06/11/2019	DEVISED LOT LAYOUT	Diadaimer and Copyright ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. THESE DRAWINGS, PLANS, AND SPCEIFICATIONS AND TH COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PLY LTD AND MUST NOT BE REPRODUCED.	0 1 2 3 4 5 6 7 8 9 10	Aoyuan 2	Orion Consulting	CONSULT AUSTRALIA Member Fires	STAGE 1 32 LOVELLE STREET & 141 YARRAWA ROAD, MOSS VALE,	Title:		ONG SECT ET 03 OF		
8 A S/	M Design		Revision Description	OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LT	SCALE 1:100 (A1) SCALE 1:200 (A3)	building a healthy lifestyle	ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@oriton	nconsulting.com.au	ROAD & DRAINAGE DESIGN	Project No. 19-34	Set No.	Milestone DA	304	Revision D





LONG SECTION - ROAD No.03 SCALE 1:500 (H) SCALE 1:100 (V)



LONG SECTION - RFS TRACK SCALE 1:500 (H) SCALE 1:100 (V)

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Set No 01

Mileston DA

Plan 305

Revision D

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B SA JM - 06/11/2019 REVISED LOT LAYOUT A SA JM MP 11/07/2019 ISSUED FOR DEVELOPMENT APPLICATION v Drawn Design Appd. Date Revision Description

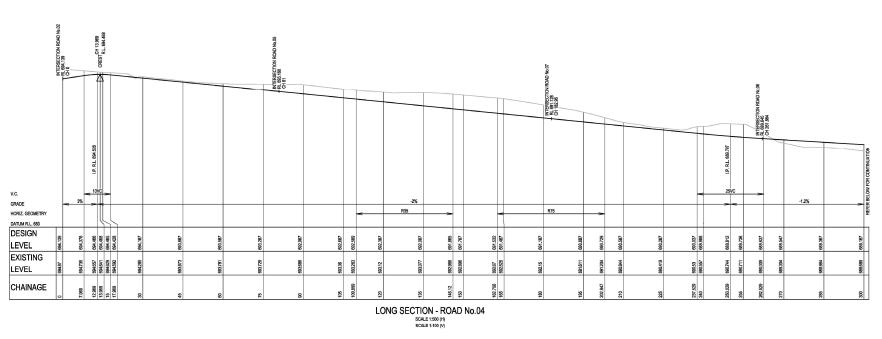
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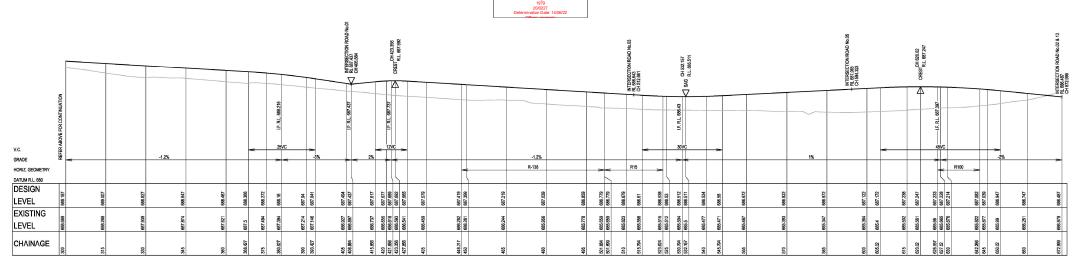
	riojau.
STRALIA	STAGE 1
irm.	32 LOVELLE STREET &
	141 YARRAWA ROAD, MOSS VA
	ROAD & DRAINAGE DESIGN

STAGE 1	ROAD LONG SECTIONS
VELLE STREET &	SHEET 04 OF 09
WA ROAD, MOSS VALE,	



Wingcorribee

DEVELOPMENT CONSENT
Approved person to s.f. (is and s.f.2) (i) d.



LONG SECTION - ROAD No.04 SCALE 1:500 (H) SCALE 1:100 (V)

ISSUED DEVELOPMENT APPLICATION

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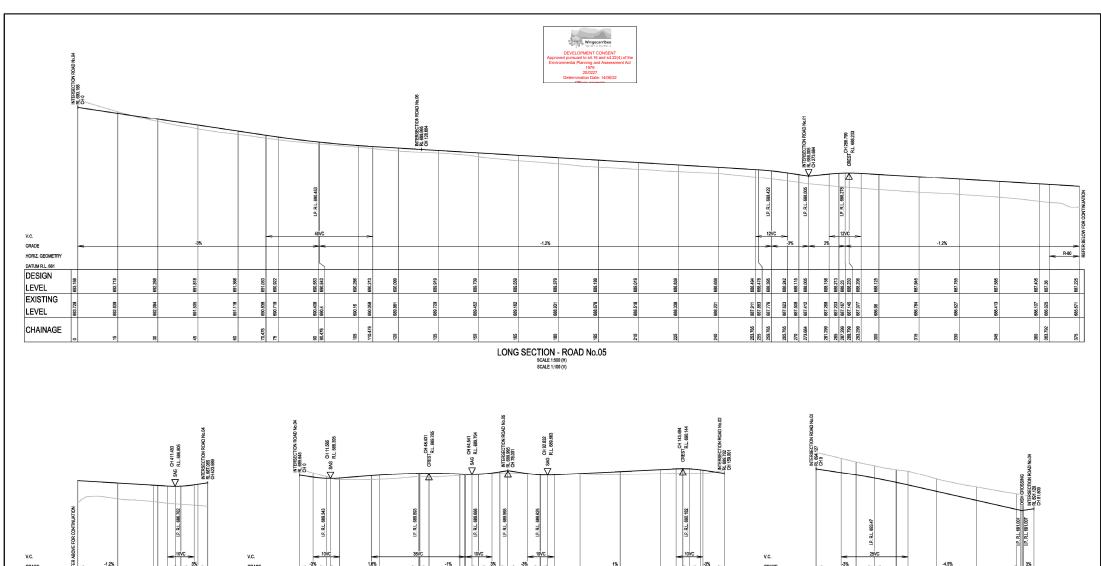
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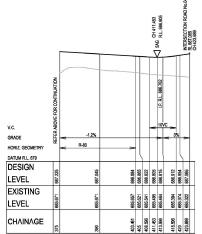
For:	
A	Aoyuan ≥
	building a healthy lifestyle



jeci	STAGE 1
	32 LOVELLE STREET &
4′	I YARRAWA ROAD, MOSS VALE
	ROAD & DRAINAGE DESIGN

Project No.	Set No.	Milestone	Plan	Revision
19-34	01	DA	306	ח
10.04	V I	D/1	000	



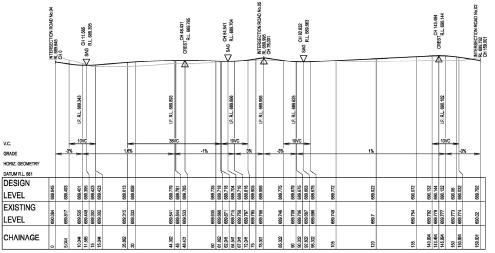




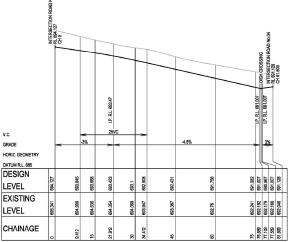
A SA JM MP 11/07/2019 ISSUED FOR DEVELOPMENT APPLICATION

Drawn Design Appd. Date

Revision Description



LONG SECTION - ROAD No.06 SCALE 1:500 (H) SCALE 1:100 (V)



LONG SECTION - ROAD No.07 SCALE 1:500 (H) SCALE 1:100 (V)

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B SA JM - 06/11/2019 REVISED LOT LAYOUT

SCALE 1:500 (A1) SCALE 1:1000 (A3) SCALE 1:100 (A1) SCALE 1:200 (A3)

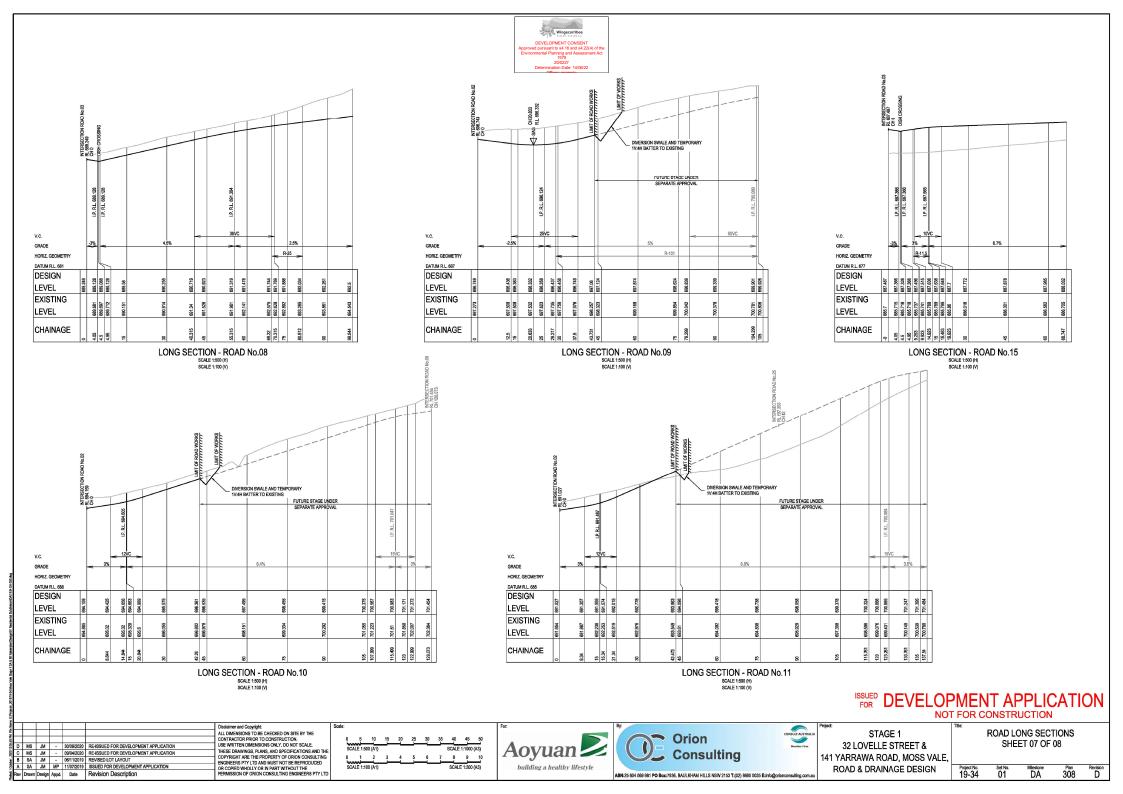
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building a healthy lifestyle

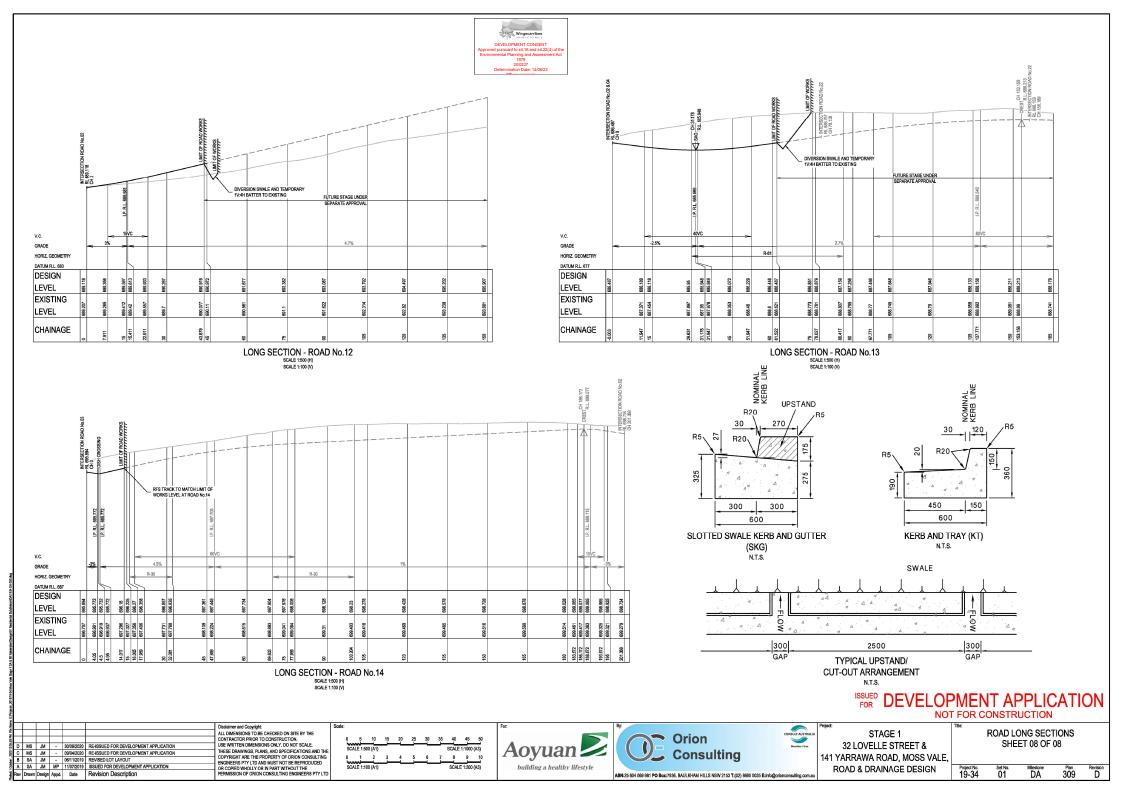


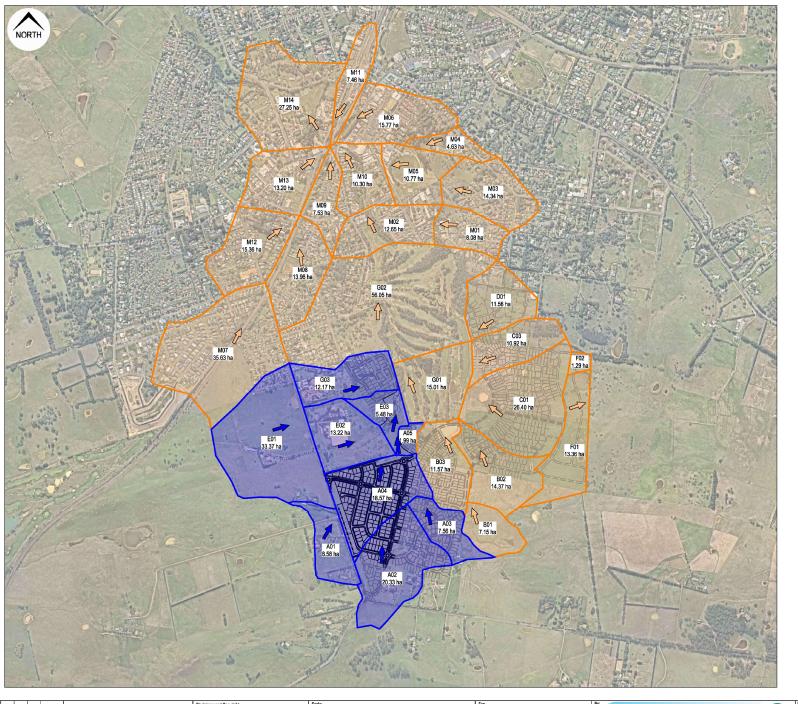
STRALIA	STAGE 1
Tires.	32 LOVELLE STREET &
	141 YARRAWA ROAD, MOSS VALE,
	ROAD & DRAINAGE DESIGN

ROAD LONG SECTIONS SHEET 06 OF 08
011221 00 01 00

Project No.	Set No.	Milestone	Plan	Revision
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С	MS	JM		09/04/2020	RE-ISSUED FOR DEVELOPMENT APPLICATION	THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE	
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Rev	Drawn	Design	Appd.	Date	Revision Description	PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD	



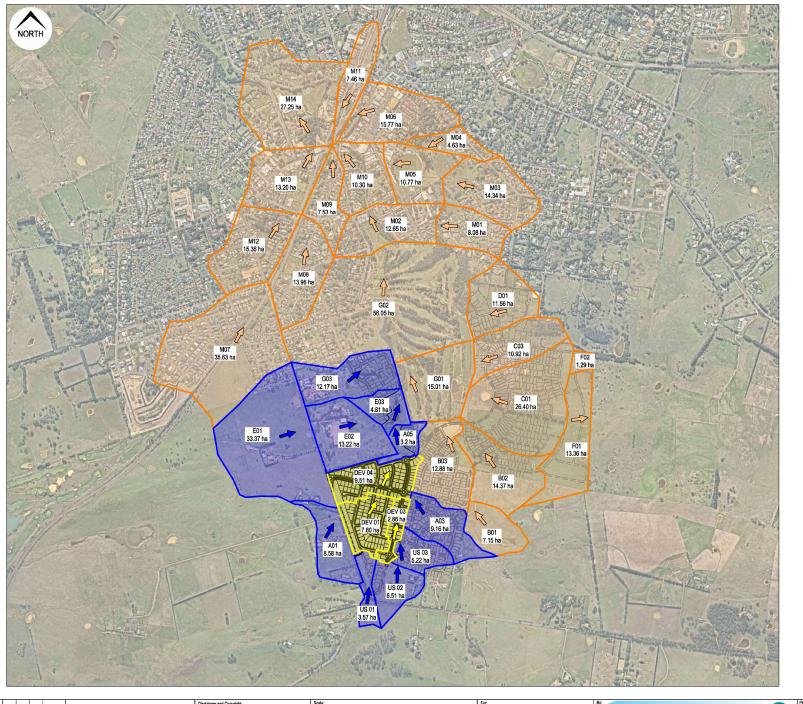


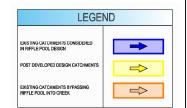
STAGE 1 32 LOVELLE STREET & 141 YARRAWA ROAD, MOSS VALE, ROAD & DRAINAGE DESIGN

PRE DEVELOPED CATCHMENT PLAN

Project No. 19-34 Set No. Milestone DA

Plan 400





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С	MS	JM	-	09/04/2020	RE-ISSUED FOR DEVELOPMENT APPLICATION	THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND TI
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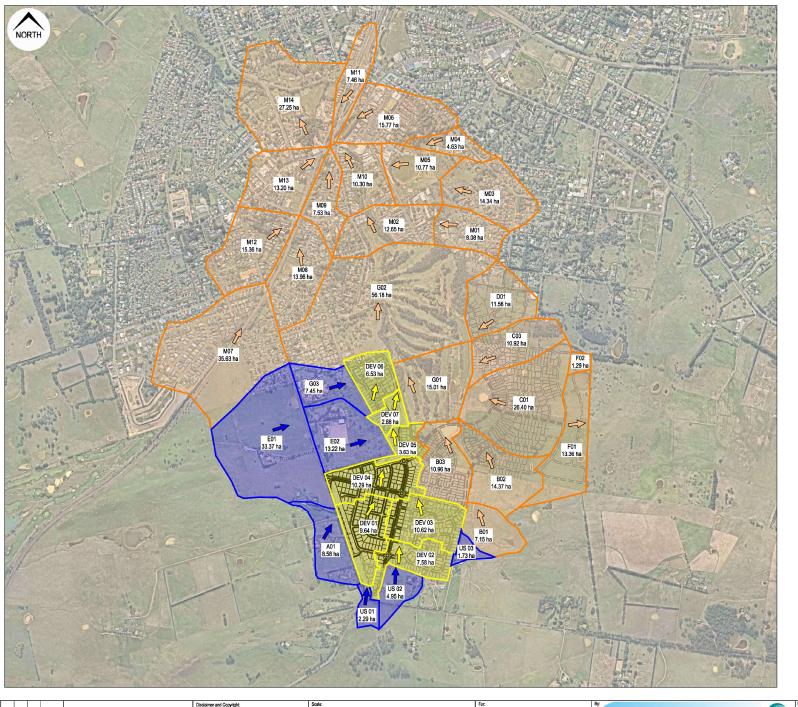


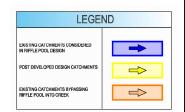
STAGE 1 32 LOVELLE STREET & 141 YARRAWA ROAD, MOSS VALE, ROAD & DRAINAGE DESIGN

INTERIM POST DEVELOPED CATCHMENT PLAN

Project No. 19-34

Set No. Plan 401 Milestone DA





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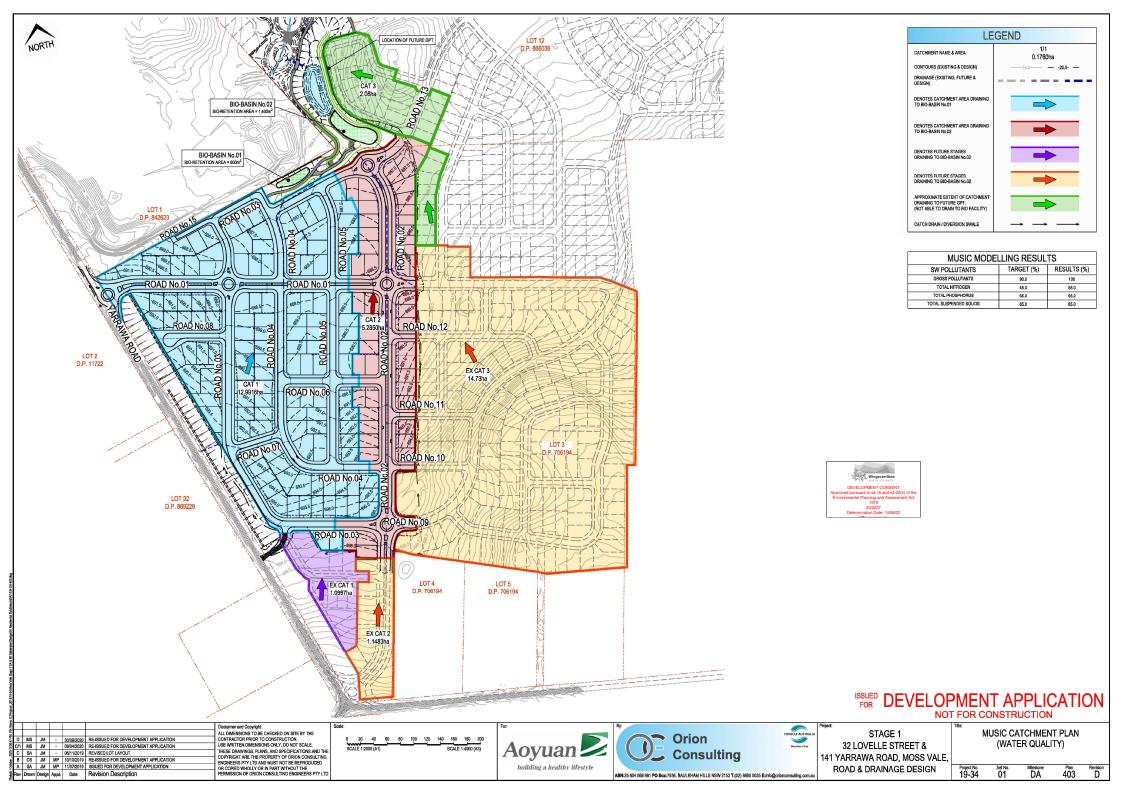


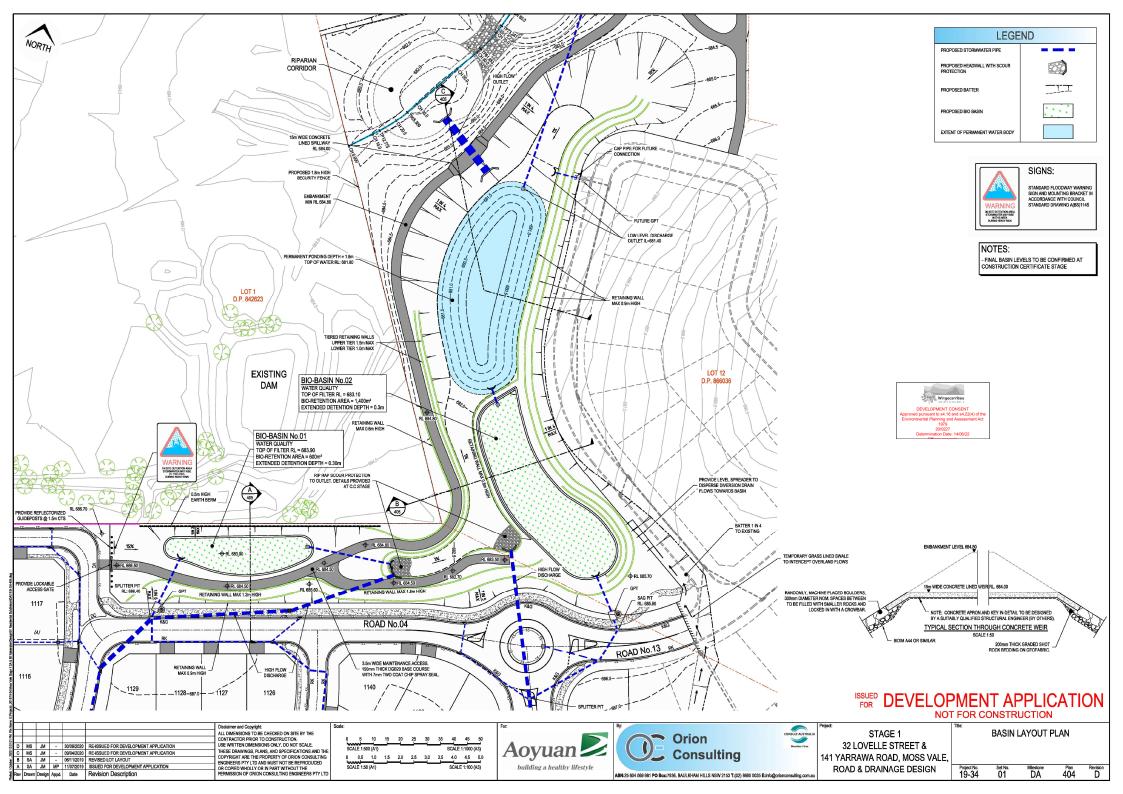


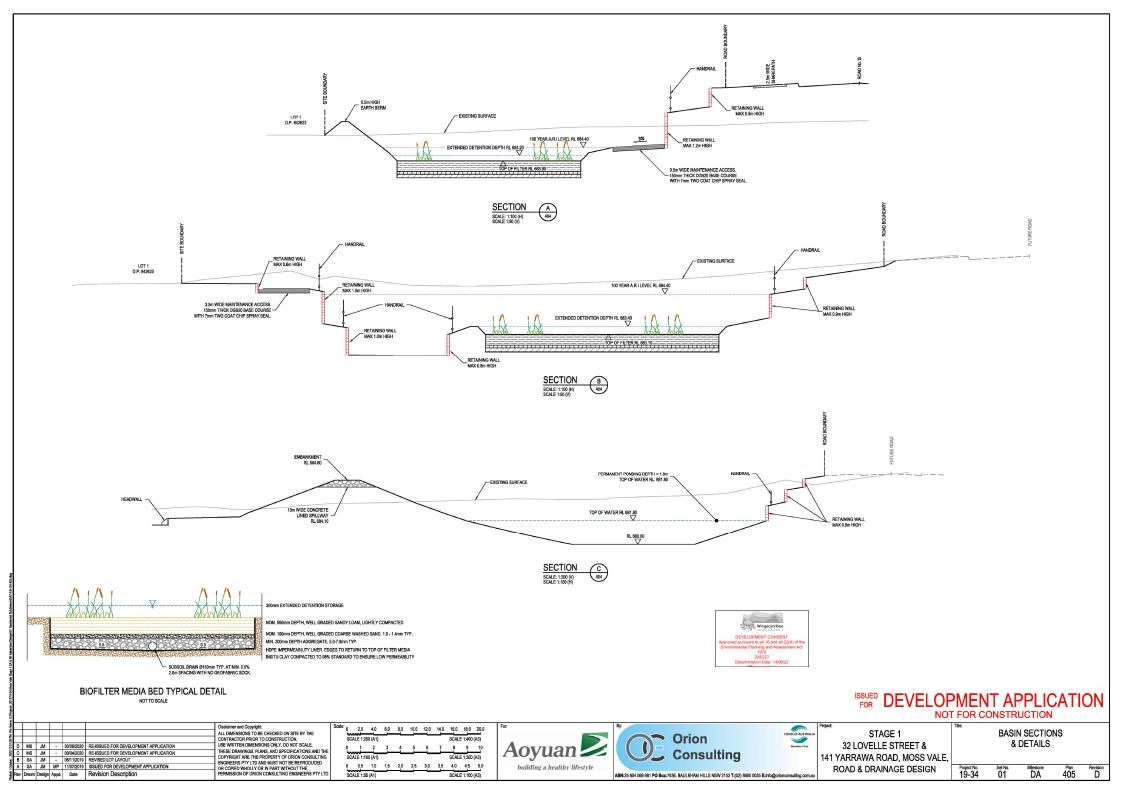
STAGE 1 32 LOVELLE STREET & 141 YARRAWA ROAD, MOSS VALE, ROAD & DRAINAGE DESIGN

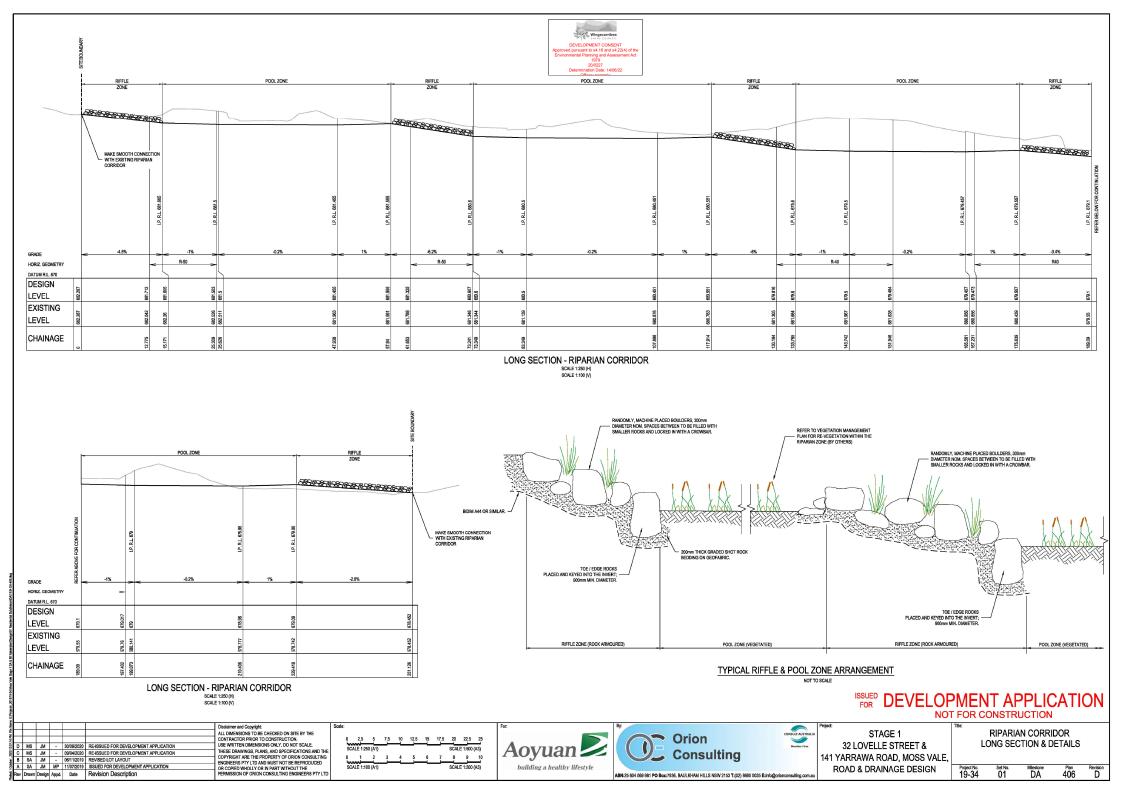
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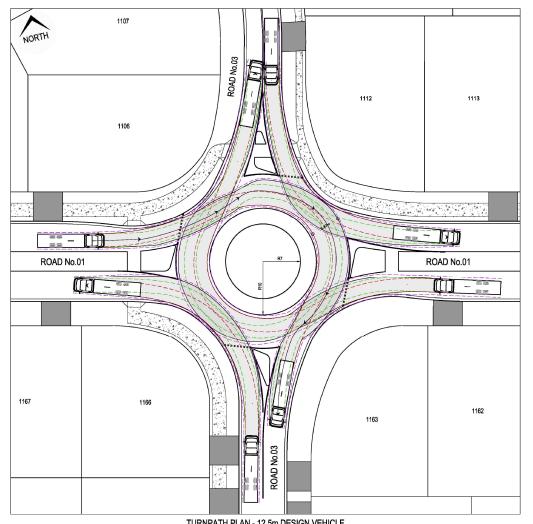
Project No. 19-34 Set No. Mileston DA



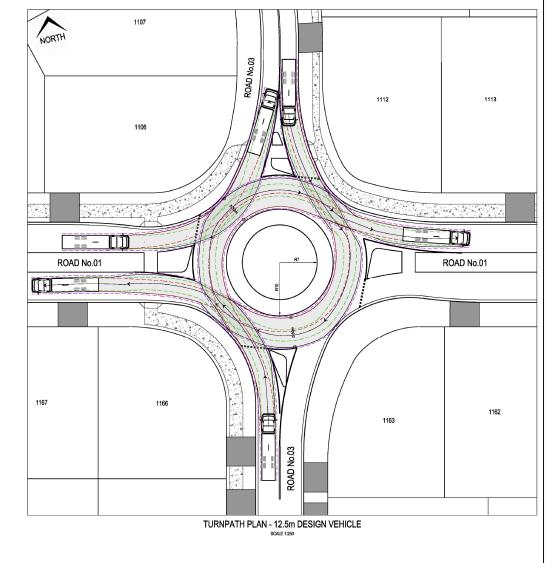












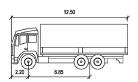
LEGEND

DENOTES FRONT WHEEL TRACK

DENOTES REAR WHEEL TRACK

DENOTES 0.5m VEHICLE BODY CLEARANCE

DENOTES VEHICLE BODY



12.5m SU TRUCK - DESIGN VEHICLE

Midth	: .	2.50			
rack	:	2.50			
ock to Lock Time	: :	6.0			
Steering Angle	: 1	36.6			



ISSUED DEVELOPMENT APPLICATION

Project No. 19-34

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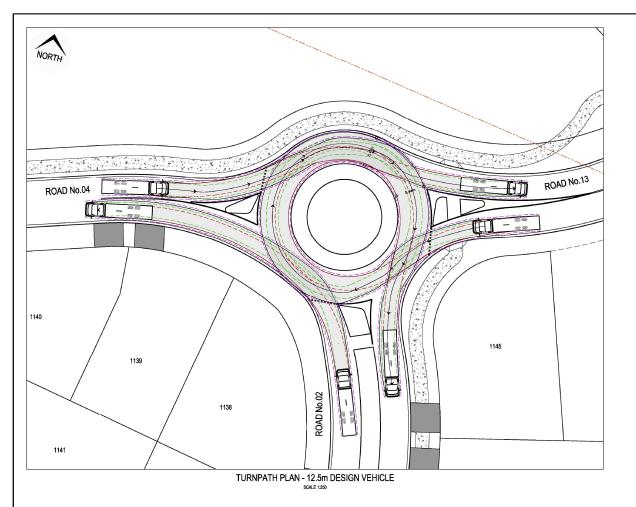


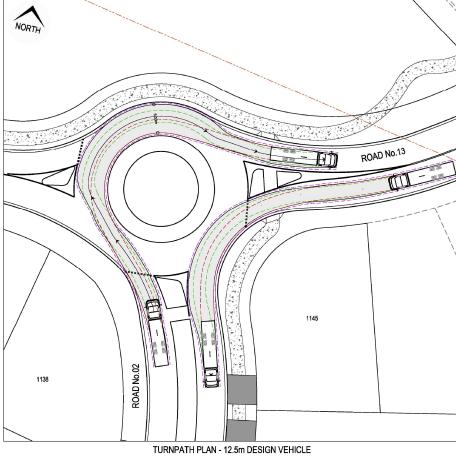


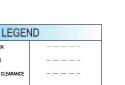
STAGE 1 32 LOVELLE STREET & 141 YARRAWA ROAD, MOSS VALE, ROAD & DRAINAGE DESIGN 12.5M VEHICLE
TURNPATH PLAN
SHEET 01 OF 15

Set No. Milestone Plan
01 DA 500

Revision



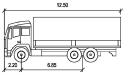




DENOTES FRONT WHEEL TRACK

DENOTES REAR WHEEL TRACK

DENOTES VEHICLE BODY



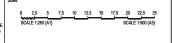
12.5m SU TRUCK - DESIGN VEHICLE

	meters				
Width	:	2.50			
Track		2.50			
Lock to Lock Time	:	6.0			
Steering Angle		26.6			



FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION

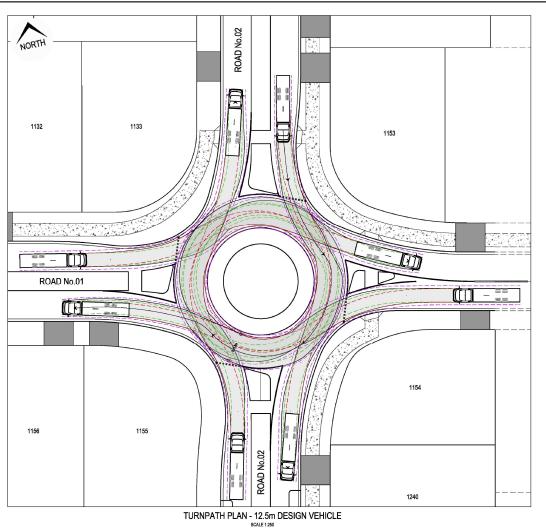
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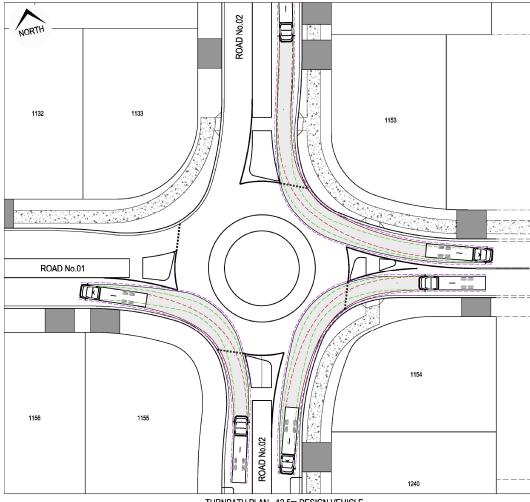






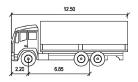






TURNPATH PLAN - 12.5m DESIGN VEHICLE SCALE 1.250





12.5m SU TRUCK - DESIGN VEHICLE

 Width
 : 2.50

 Track
 : 2.50

 Lock to Lock Time
 : 6.0

 Steering Angle
 : 36.6



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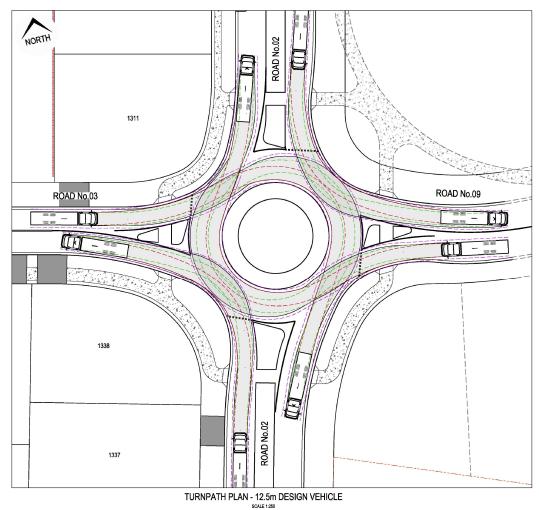
0	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25
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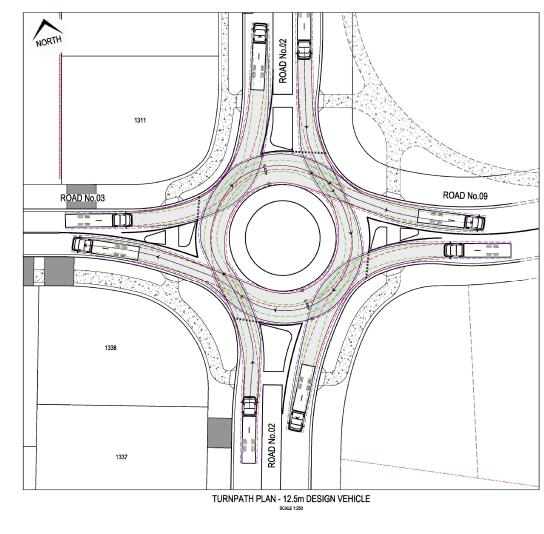


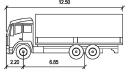


STAGE 1 32 LOVELLE STREET & 141 YARRAWA ROAD, MOSS VALE, ROAD & DRAINAGE DESIGN 12.5M VEHICLE TURNPATH PLAN SHEET 03 OF 15

Project No. Set No. Milestone Plan R 19-34 01 DA 502







12.5m SU TRUCK - DESIGN VEHICLE

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

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LEGEND

DENOTES FRONT WHEEL TRACK

DENOTES REAR WHEEL TRACK

DENOTES VEHICLE BODY





STAGE 1 32 LOVELLE STREET & 141 YARRAWA ROAD, MOSS VALE, ROAD & DRAINAGE DESIGN

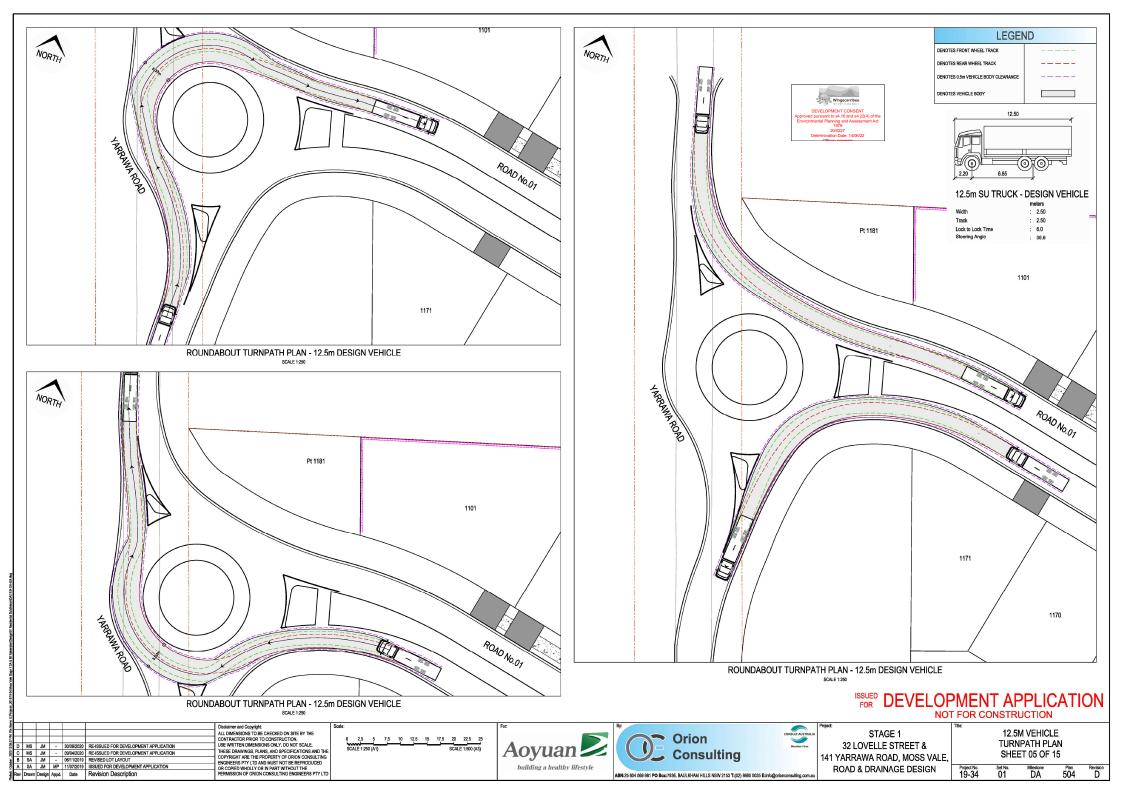
12.5M VEHICLE TURNPATH PLAN SHEET 04 OF 15

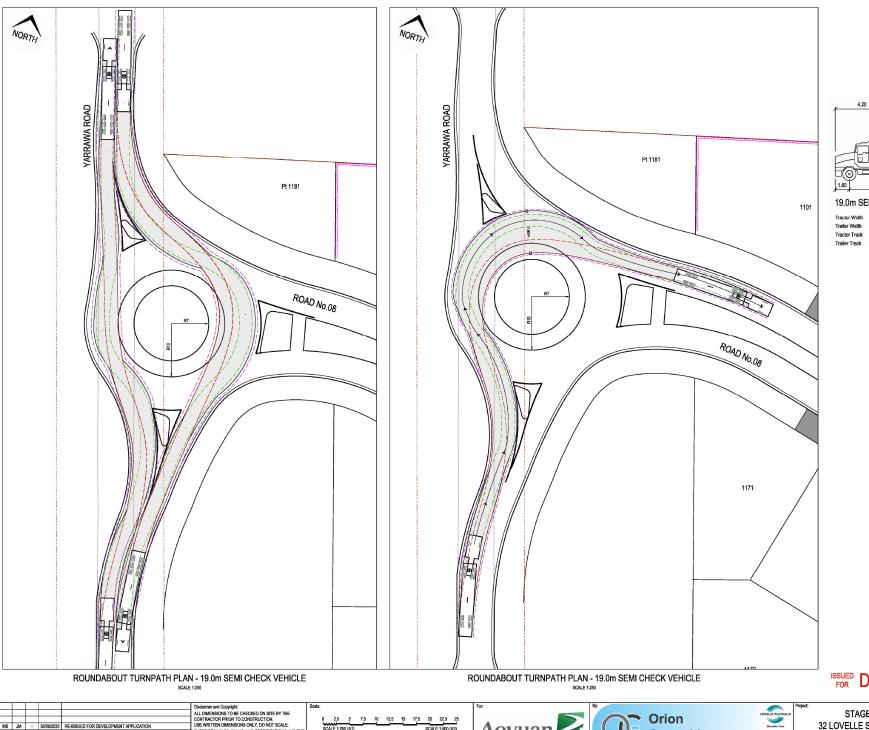
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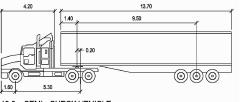
Project No. 19-34 Set No. Milestone DA 503







LEGEND DENOTES FRONT WHEEL TRACK DENOTES REAR WHEEL TRACK DENOTES 0.5m VEHICLE BODY CLEARANCE DENOTES VEHICLE BODY



19.0m SEMI - CHECK VEHICLE

	m	eters				
ractor Width		2.50	Lock to Lock Time	:	6.0	
railer Width	:	2.50	Steering Angle	:	27.8	
ractor Track	:	2.50	Articulating Angle	:	70.0	
railer Track		2.50				

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B SA JM - 06/11/2019 REVISED LOT LAYOUT A SA JM MP 11/07/2019 ISSUED FOR DEVELOPMENT APPLICATION
Rev Drawn Design Appd. Date Revision Description Drawn Design Appd. Date

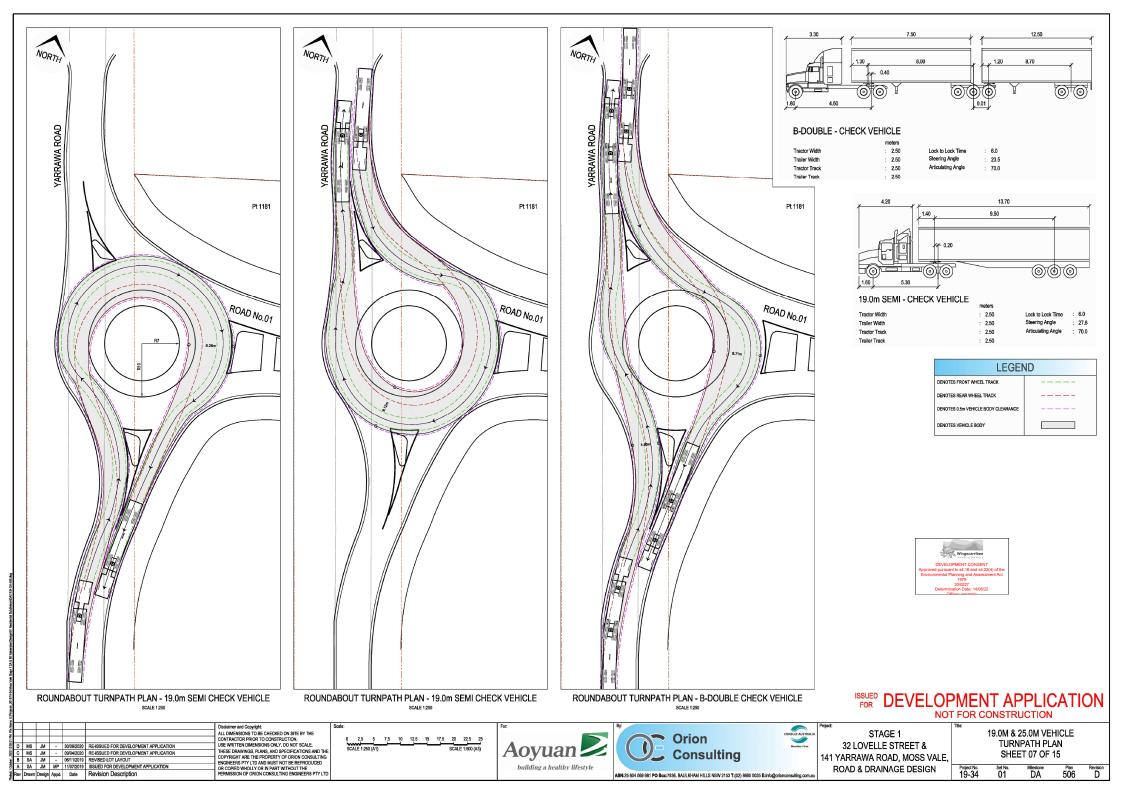


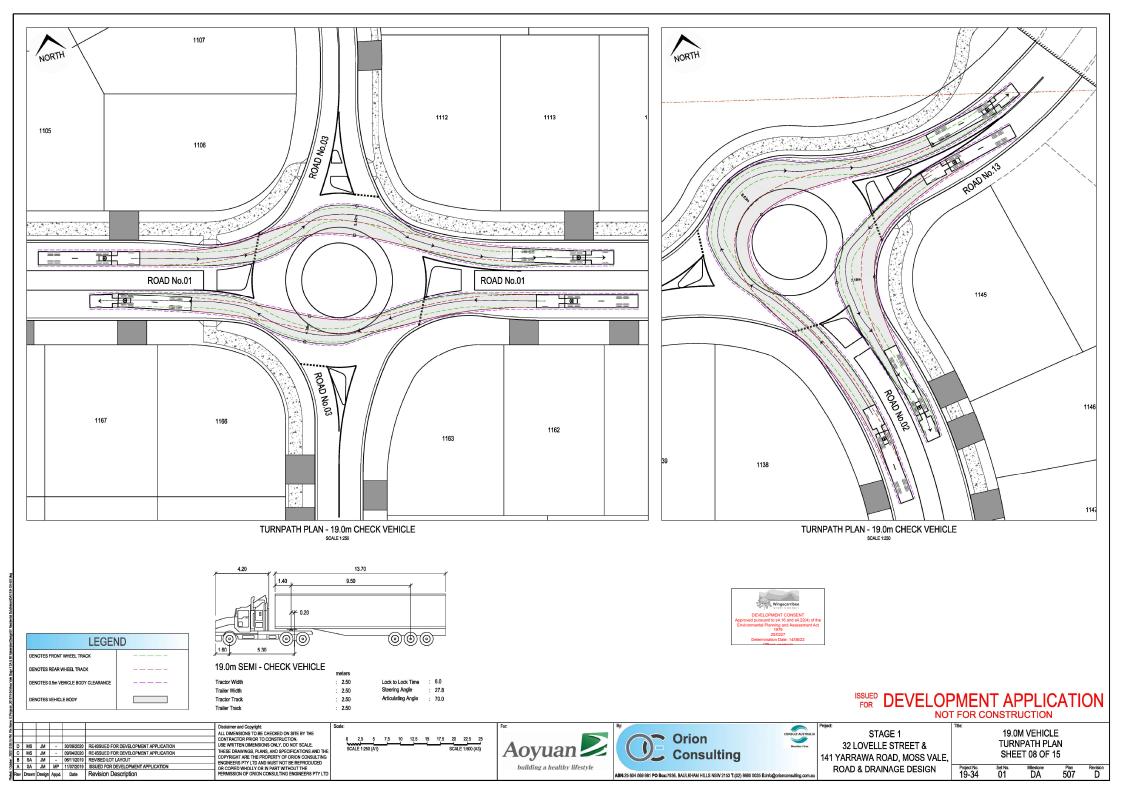


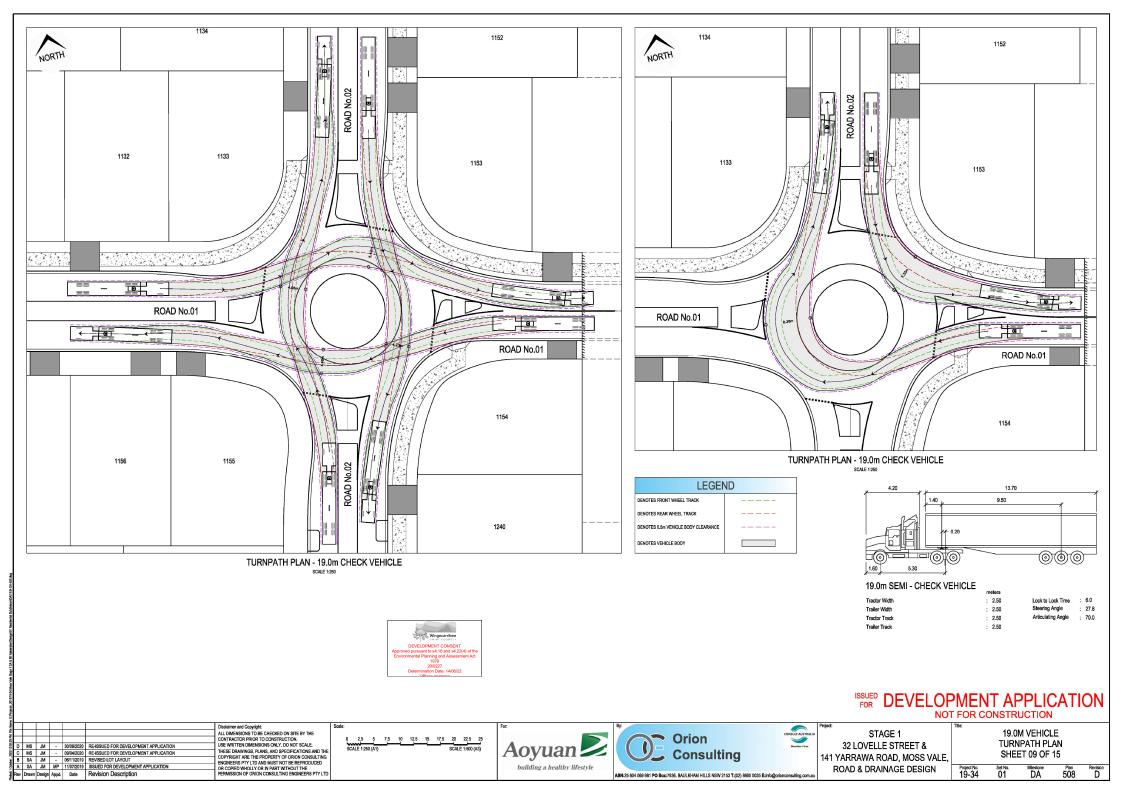


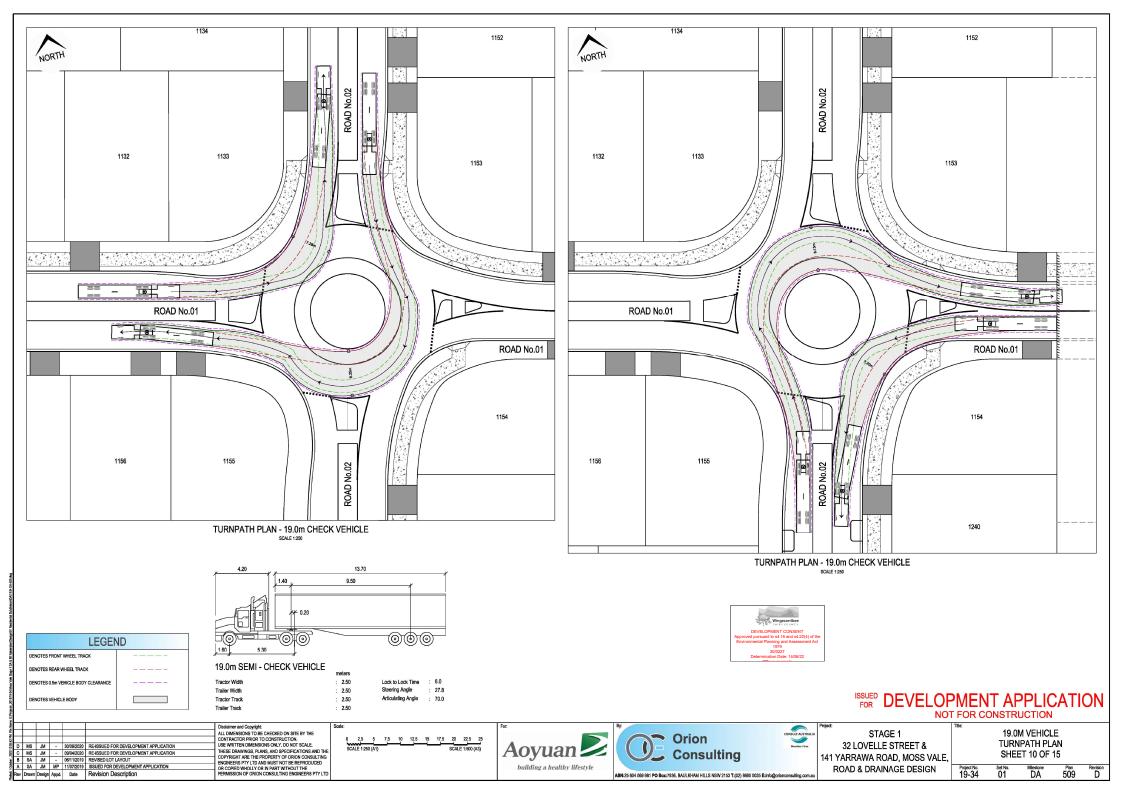
19.0M VEHICLE TURNPATH PLAN

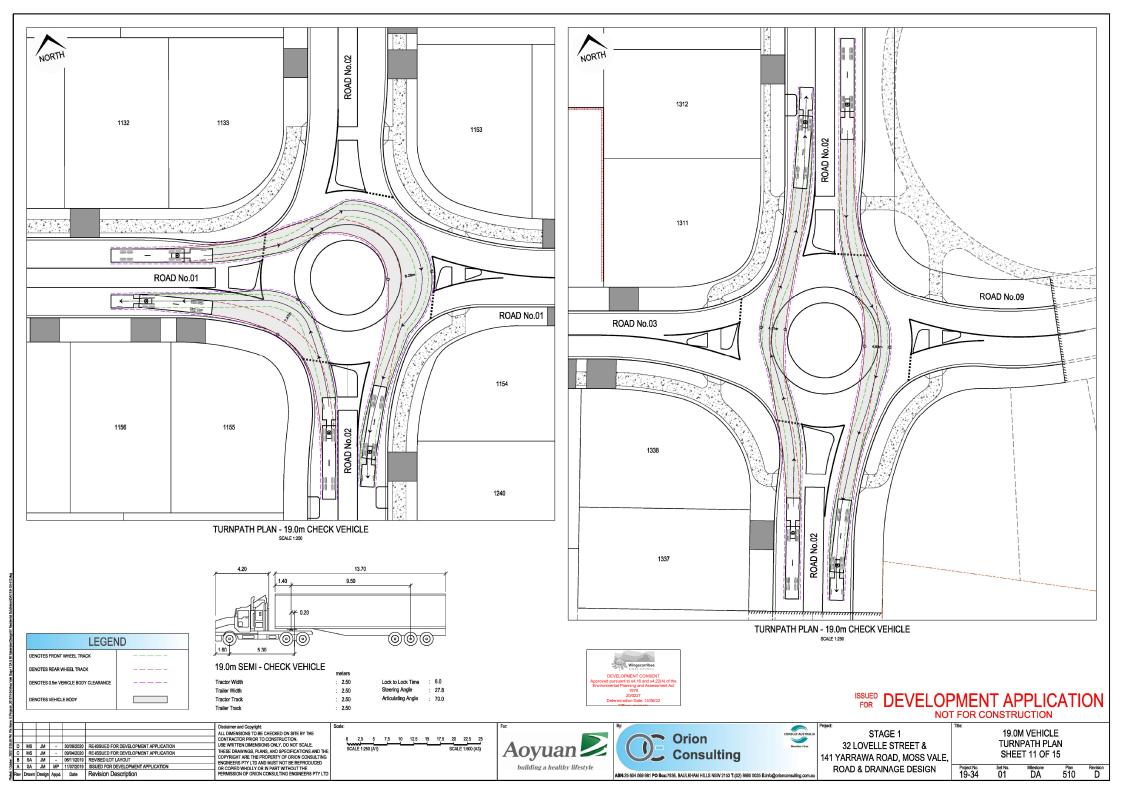
SHEET 06 OF 15 Project No. 19-34 Set No. Mileston DA Plan 505

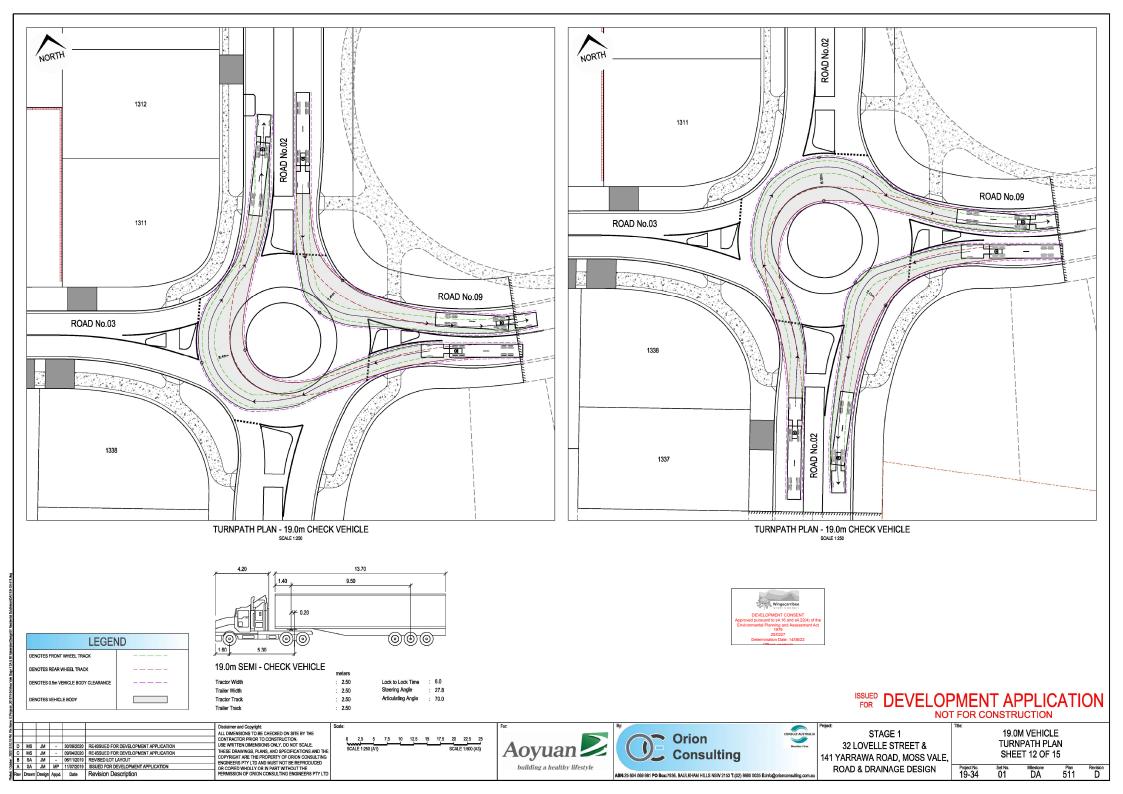


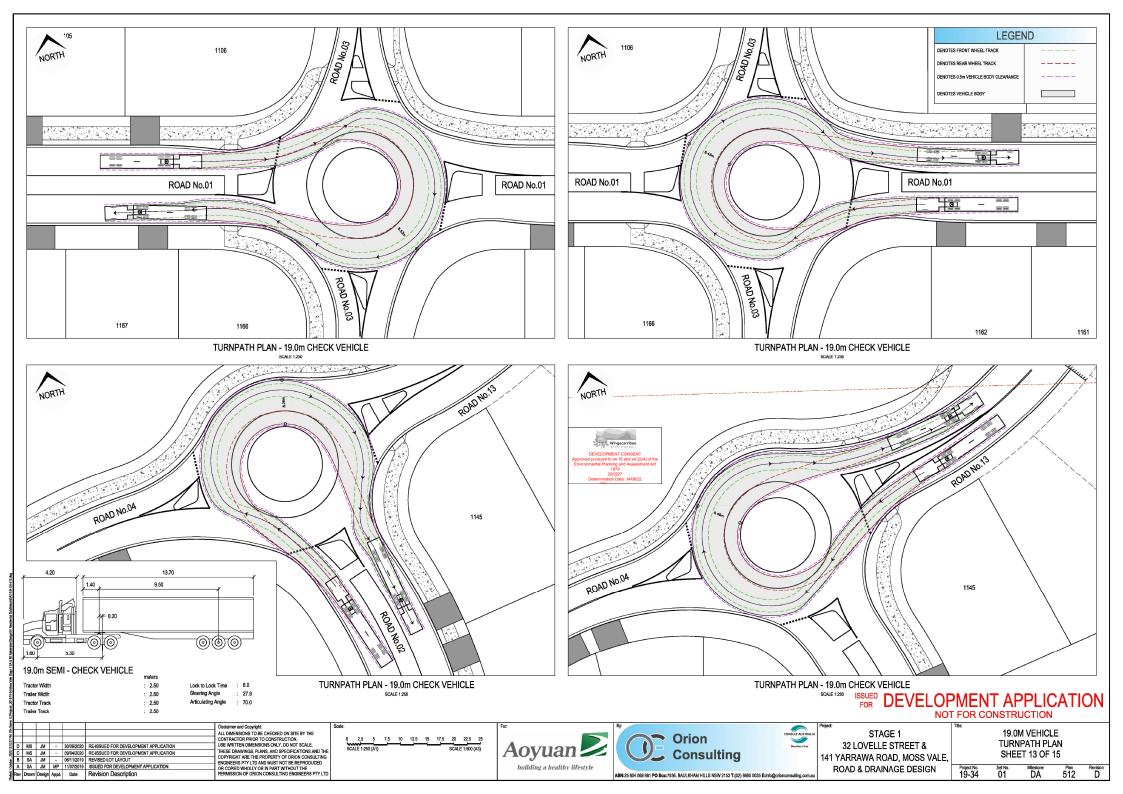


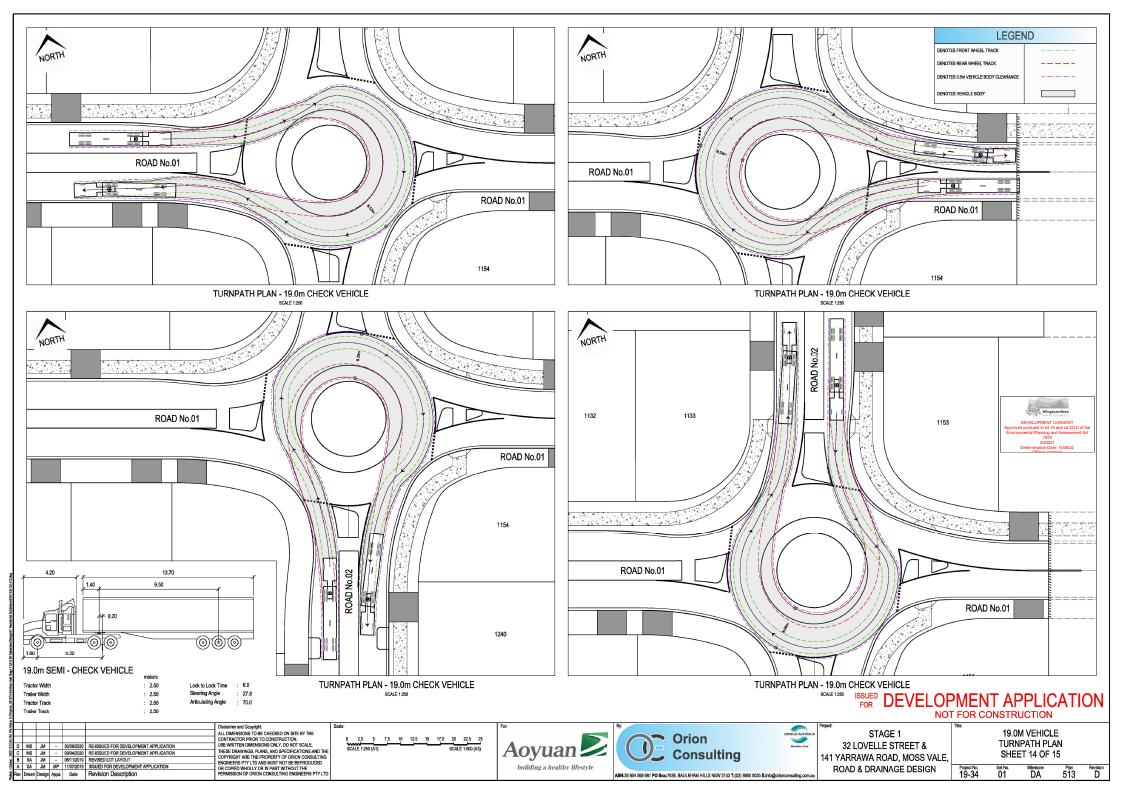


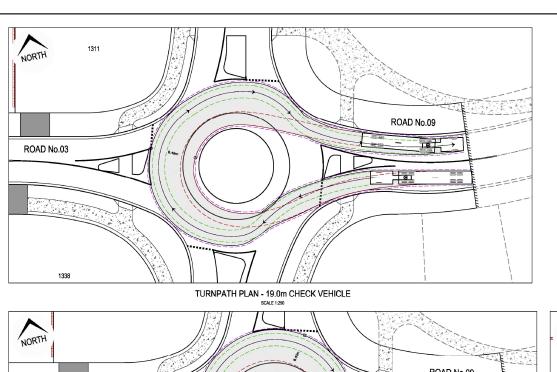






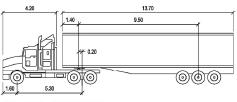






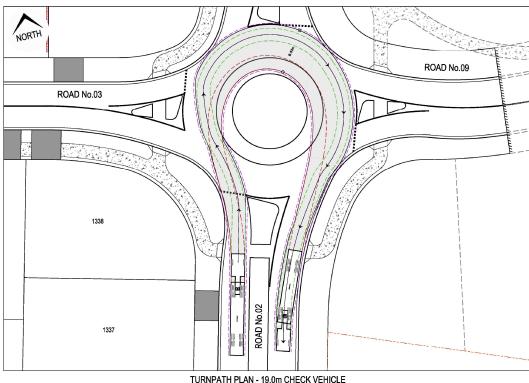


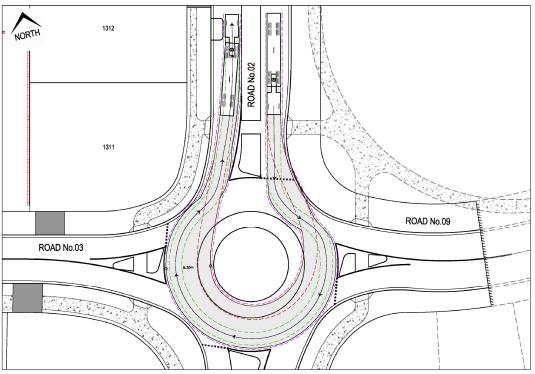




19.0m SEMI - CHECK VEHICLE

	1116/6/2			
ractor Width	: 2.50	Lock to Lock Time	Ė	6.0
railer Width	: 2.50	Steering Angle	:	27.
ractor Track	: 2.50	Articulating Angle	:	70.0
railer Track	. 250			





TURNPATH PLAN - 19.0m CHECK VEHICLE

TURNPATH PLAN - 19.0m CHECK VEHICLE

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Drawn Design Appd. Date







19.0M VEHICLE TURNPATH PLAN SHEET 15 OF 15

Project No. 19-34

Set No. Milestone DA 514

