NOTES

1. NO ASSESSMENT HAS BEEN UNDERTAKEN FOR EXISTING PAVEMENT.
2. TURN PATHS PRESENTED IS THE INTENDED OPERATIONS OF TRAFFIC ASSOCIATED WITH GOULBURN SOLAR FARM. ONLY THE DISPLAYED MOVEMENTS WILL BE PERMITTED.
3. SURVEY SHOWN HAS BEEN PROVIDED BY UMWELT (11/09/2023).
4. BOUNDARIES HAVE BEEN SOURCED FROM SIX MAPS "Clip 'n' Snip".
5. NO ASSESSMENT HAS BEEN UNDERTAKEN FOR THE EXISTING GOLDEN HIGHWAY AND RINGWOOD ROAD INTERSECTION RIGHT TURN IN AND RIGHT TURN OUT MOVEMENTS. EXISTING VEHICLE MOVEMENTS AND INTERSECTION LAYOUT TO BE RESPECTED.

VEHICLE TURN PATH PROFILE

Service Vehicle (8.8 m)	
Overall Length	8.800m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.427m
Track Width	2.500m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	12.500m

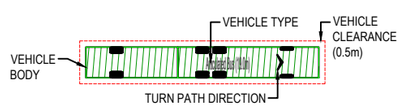
GENERAL

- DESIGN
- CADASTRAL
- SURVEY
- SAFETY BARRIER

ROAD GEOMETRY

- CONTROL LINE AND CHAINAGE (20)
- CONTROL LINE LABEL (MCXX)

VEHICLE TURN PATH LEGEND



0 10 20 30 40
SCALE 1:1000m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SWEPT PATHS
SHEET 3 OF 4
27/10/2023

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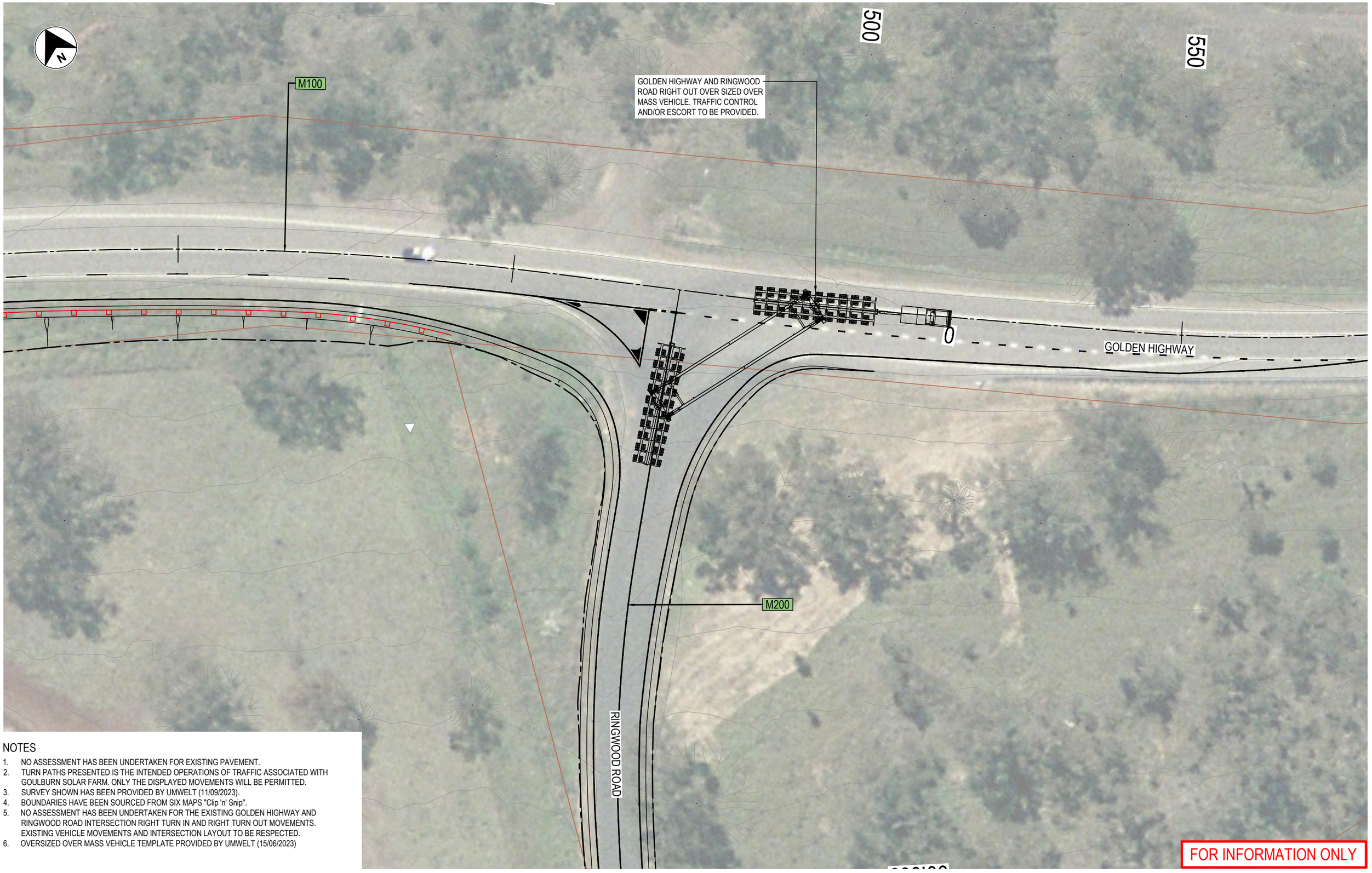
0305-INF-RD-SWEPT-PATH-RINGWOOD-03

FOR INFORMATION ONLY



NOTES

1. NO ASSESSMENT HAS BEEN UNDERTAKEN FOR EXISTING PAVEMENT.
2. TURN PATHS PRESENTED IS THE INTENDED OPERATIONS OF TRAFFIC ASSOCIATED WITH GOULBURN SOLAR FARM. ONLY THE DISPLAYED MOVEMENTS WILL BE PERMITTED.
3. SURVEY SHOWN HAS BEEN PROVIDED BY UMWELT (11/09/2023).
4. BOUNDARIES HAVE BEEN SOURCED FROM SIX MAPS "Clip 'n' Snip".
5. NO ASSESSMENT HAS BEEN UNDERTAKEN FOR THE EXISTING GOLDEN HIGHWAY AND RINGWOOD ROAD INTERSECTION RIGHT TURN IN AND RIGHT TURN OUT MOVEMENTS. EXISTING VEHICLE MOVEMENTS AND INTERSECTION LAYOUT TO BE RESPECTED.
6. OVERSIZED OVER MASS VEHICLE TEMPLATE PROVIDED BY UMWELT (15/06/2023)

FOR INFORMATION ONLY

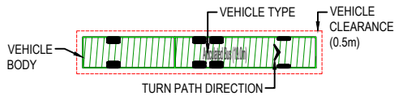
GENERAL

- DESIGN
- CADASTRAL
- SURVEY
- SAFETY BARRIER

ROAD GEOMETRY

- 20 — CONTROL LINE AND CHAINAGE
- MCXX — CONTROL LINE LABEL

VEHICLE TURN PATH LEGEND



0 5 10 15 20
SCALE 1:500m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SWEPT PATHS
SHEET 4 OF 4
27/10/2023

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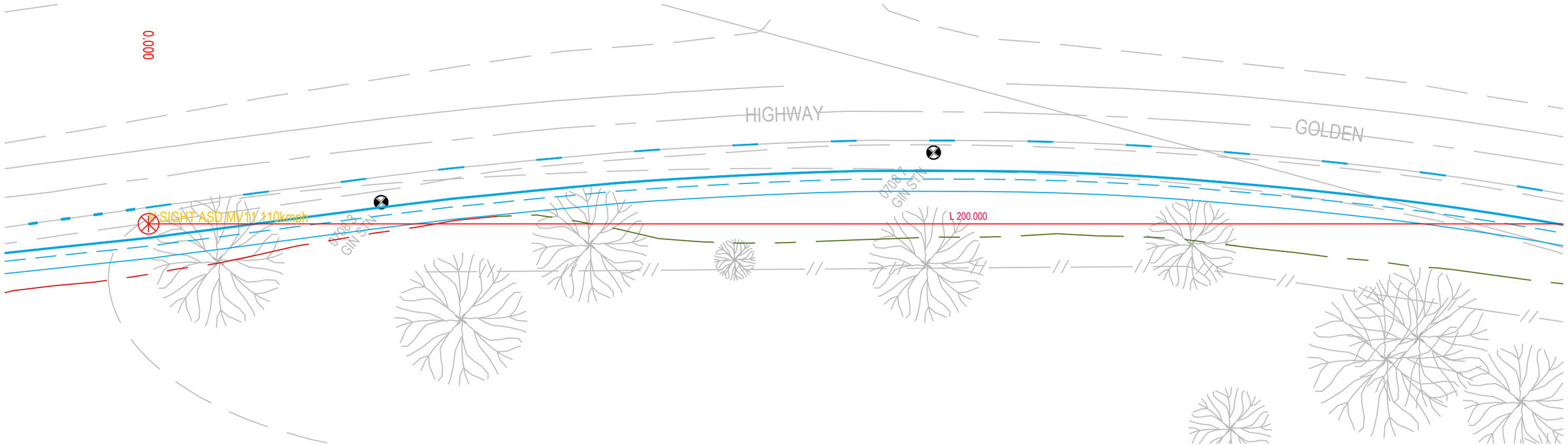
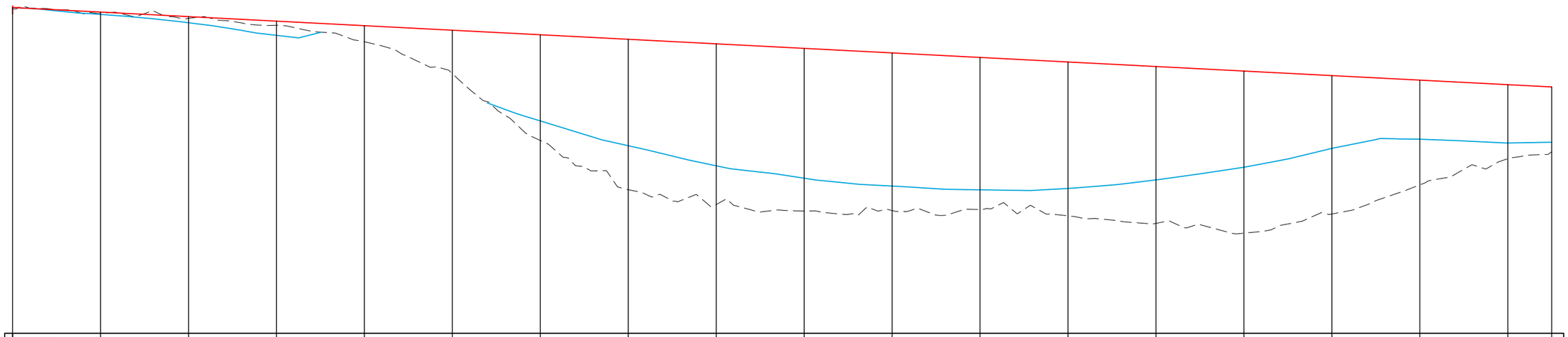
0305-INF-RD-SWEPT-PATH-RINGWOOD-04

Ringwood Road and Golden Highway Intersection and Acceleration Lane

Verification Summary - ASD

Location	Design Speed (km/hr)	Eye Height (m)	Object Height (m)	Reaction time (s)	Grade % (average)	ASD Required (m)	ASD Achieved (m)	ASD Control	Result (Pass/Fail)	Comments
Golden Highway WB Acceleration Lane End Merge Taper	110	1.1	0	N/A	N/A	375	200	MV11	FAIL	Merge Sight Distance value from AGRD Part 3 Table 9.3. Matching existing conditions, start of merge taper is at the crest of Golden Highway. Due to curvature of the existing road sight distance is obstructed by the existing terrain outside the road corridor.
Golden Highway WB Acceleration Lane Start	110	1.1	0	2	2	185.82	185.82	MV12	PASS	
Golden Highway WB Deceleration Lane Start	110	1.1	0	2	2	185.82	60.5	MV15	FAIL	54km/h ASD Achieved. Matching existing conditions, Start of deceleration lane taper is along a curved section of the Golden Highway and is uphill. Sight distance obstructed by existing road geometry.





DATUM R.L. 417.0																				
VERTICAL ALIGNMENT	-1.0% 200.0L																			
HORIZONTAL ALIGNMENT																				
EYE HEIGHT	0	0.052	0.14	0.323	0.366	0.987	1.959	2.419	2.773	2.951	3.028	3.01	2.874	2.578	2.187	1.654	1.343	1.325	1.259	
EXISTING LEVELS	424.376	424.275	424.162	424.004	423.629	422.904	421.385	420.264	419.926	419.780	419.793	419.813	419.671	419.499	419.277	419.713	420.376	420.970	421.128	
CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	175.000	

LONGITUDINAL SECTION ALONG - V SIGHT ASD MV11 110kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
APPROACH SIGHT DISTANCE
1 OF 5

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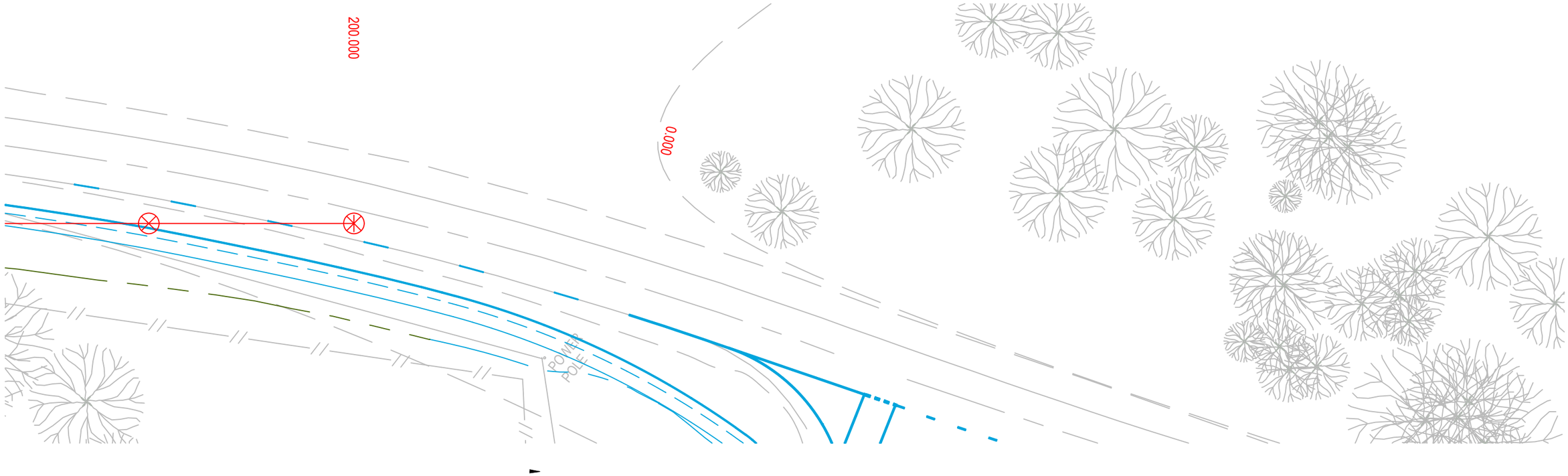
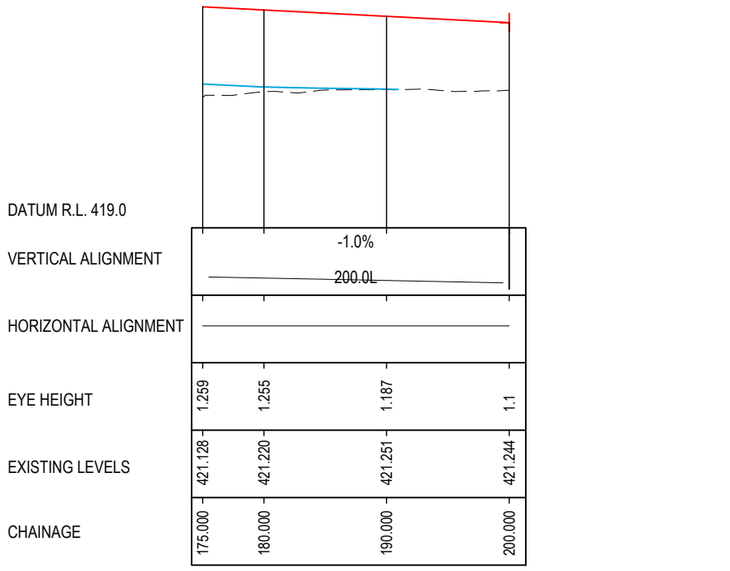
0305-INF-LS-SIGHT_ASD-01





LONGITUDINAL SECTION ALONG - V SIGHT ASD MV11 110kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
APPROACH SIGHT DISTANCE
2 OF 5

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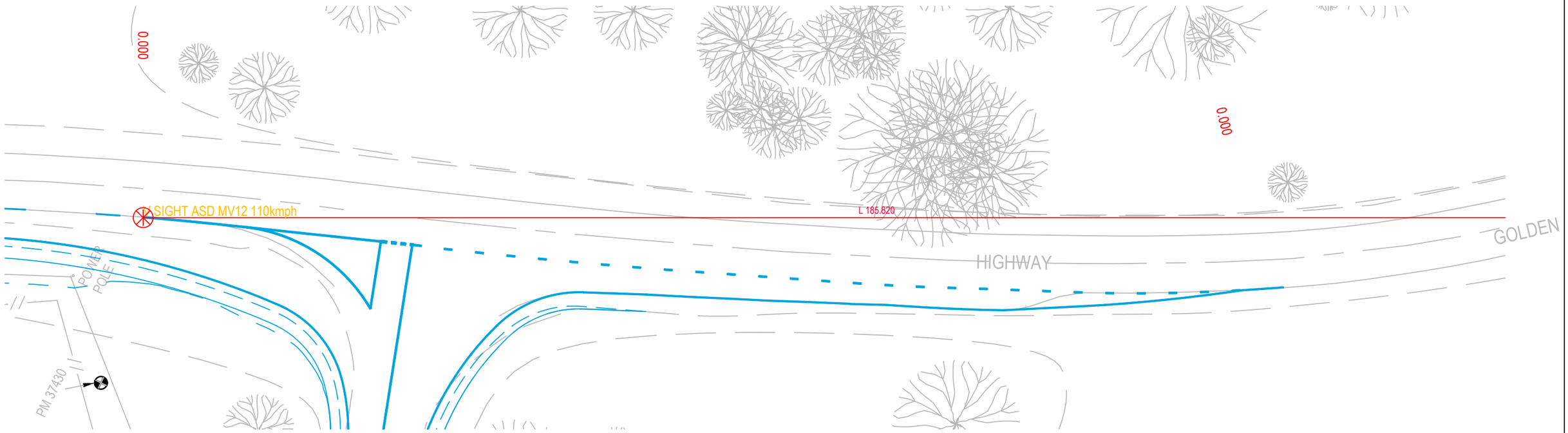
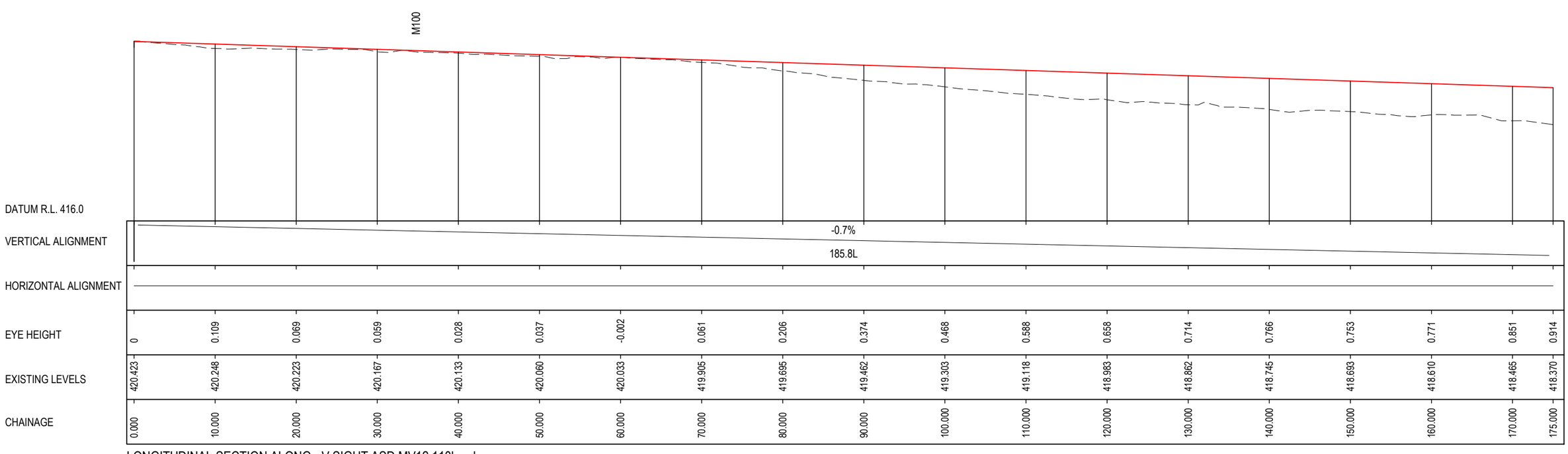
0305-INF-LS-SIGHT_ASD-02





LONGITUDINAL SECTION ALONG - V SIGHT ASD MV12 110kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
APPROACH SIGHT DISTANCE
3 OF 5

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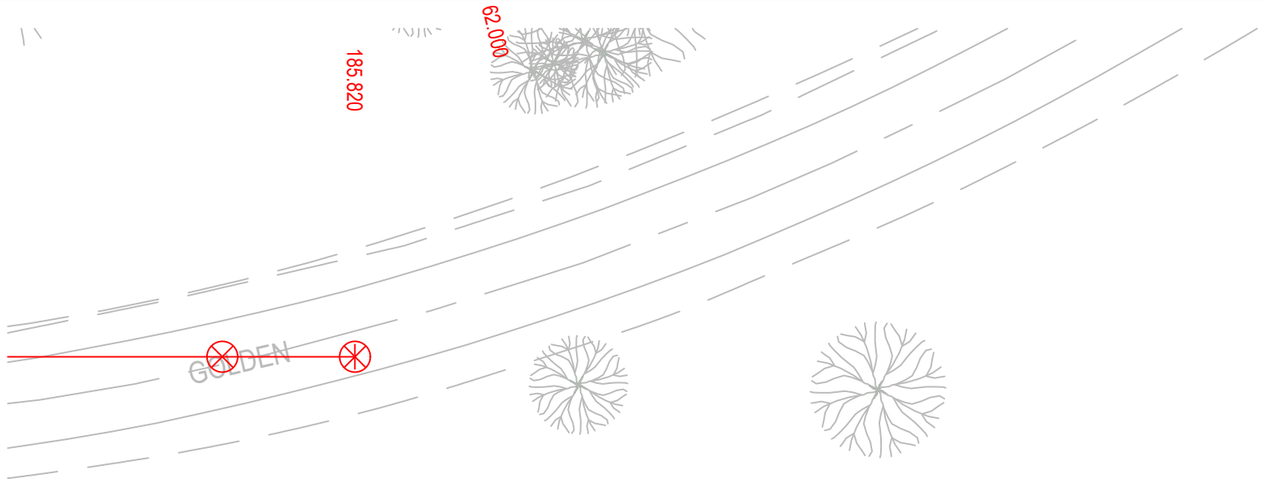
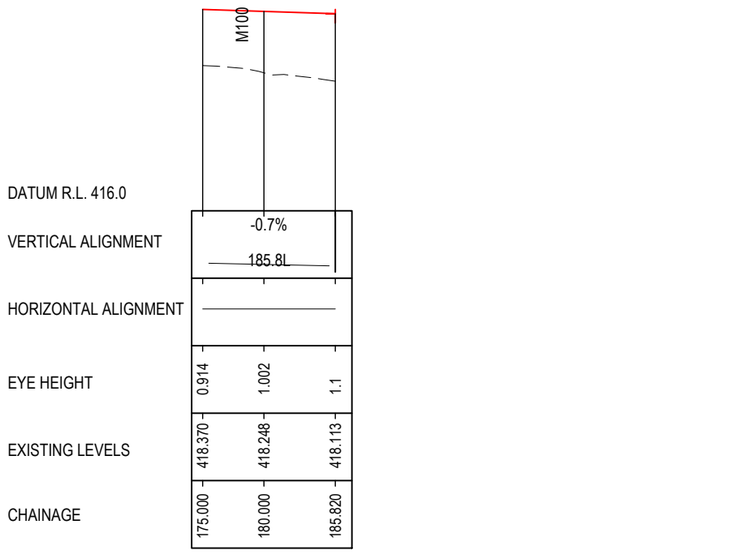
0305-INF-LS-SIGHT_ASD-03





LONGITUDINAL SECTION ALONG - V SIGHT ASD MV12 110kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
APPROACH SIGHT DISTANCE
4 OF 5

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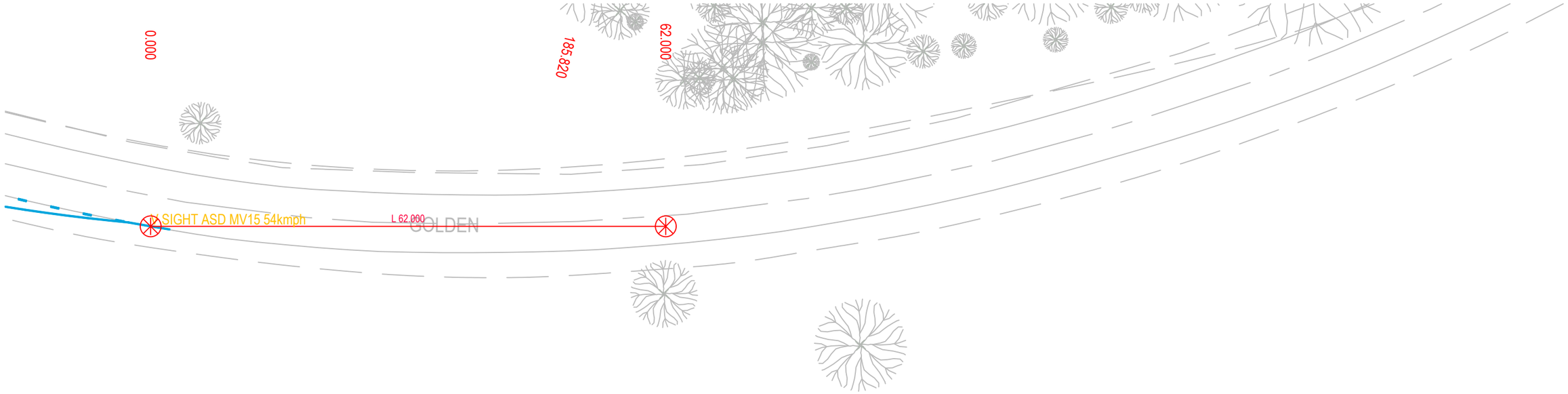
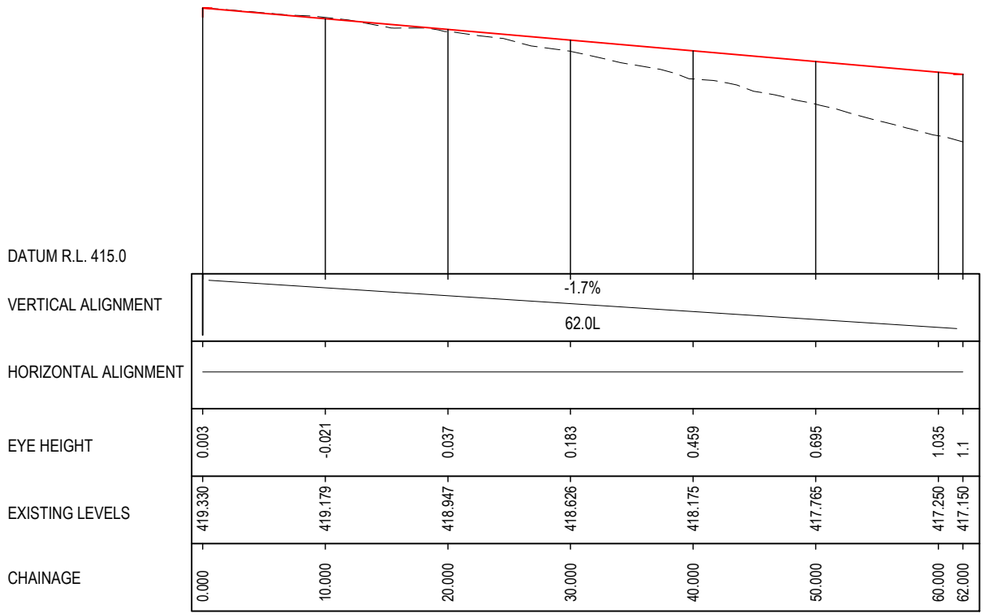
0305-INF-LS-SIGHT_ASD-04





LONGITUDINAL SECTION ALONG - V SIGHT ASD MV15 54kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
APPROACH SIGHT DISTANCE
5 OF 5

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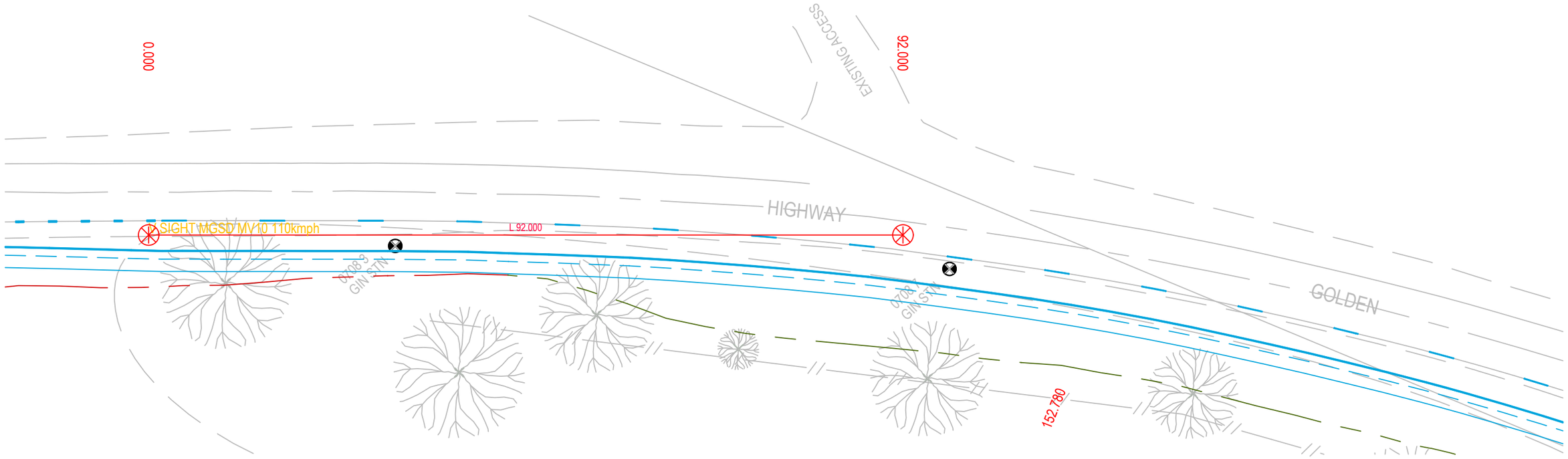
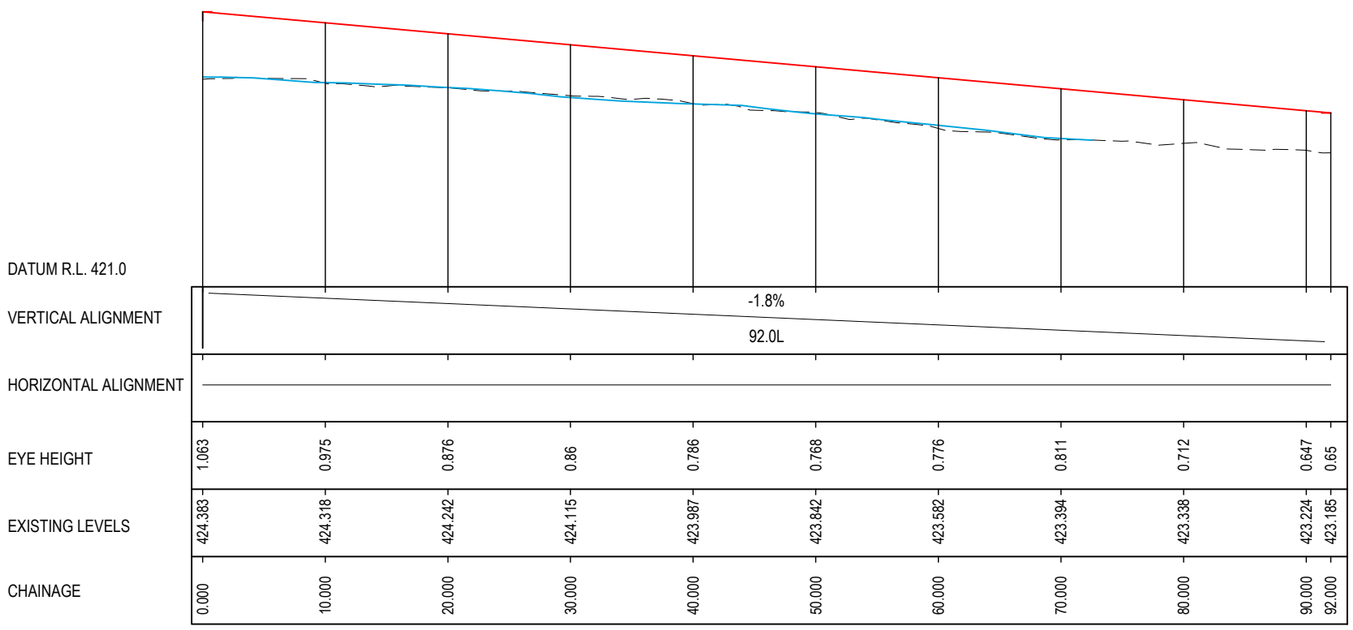
0305-INF-LS-SIGHT_ASD-05

Ringwood Road and Golden Highway Intersection Upgrade and Acceleration Lane

Verification Summary - MGSD

Location	Eye Height (m)	Object Height (m)	Critial Acceptance Gap (s)	MGSD Required (m)	MGSD Achieved (m)	MGSD Control	Result (Pass/Fail)	Comments
Golden Highway WB Acceleration Lane End	1.1	0.65	3	91.67	91.67	MV10	PASS	
Golden Highway EB and Ringwood Road SB Intersection - Right-In Turn	1.1	0.65	4	122.22	122.22	MV17	PASS	
Ringwood Road NB and Golden Highway EB and Intersection - Right-Out Turn	1.1	0.65	5	152.78	152.78	MV20	PASS	





LONGITUDINAL SECTION ALONG - V SIGHT MGSD MV10 110kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
VERT. 1:100m
0 1 2 3 4

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
MINIMUM GAP SIGHT DISTANCE
1 OF 3

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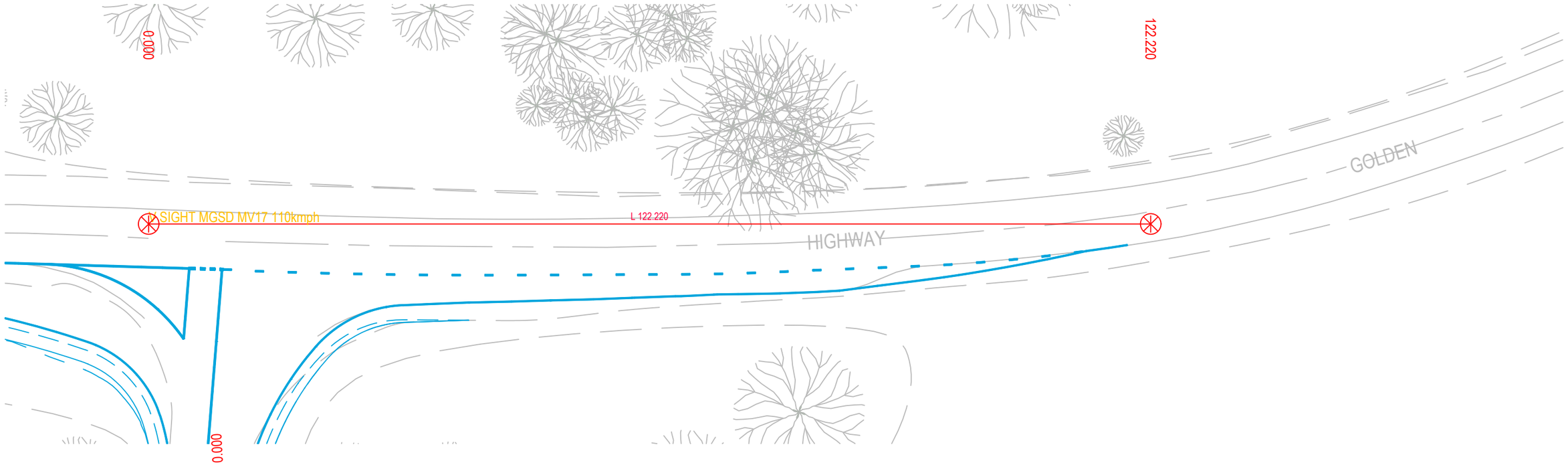
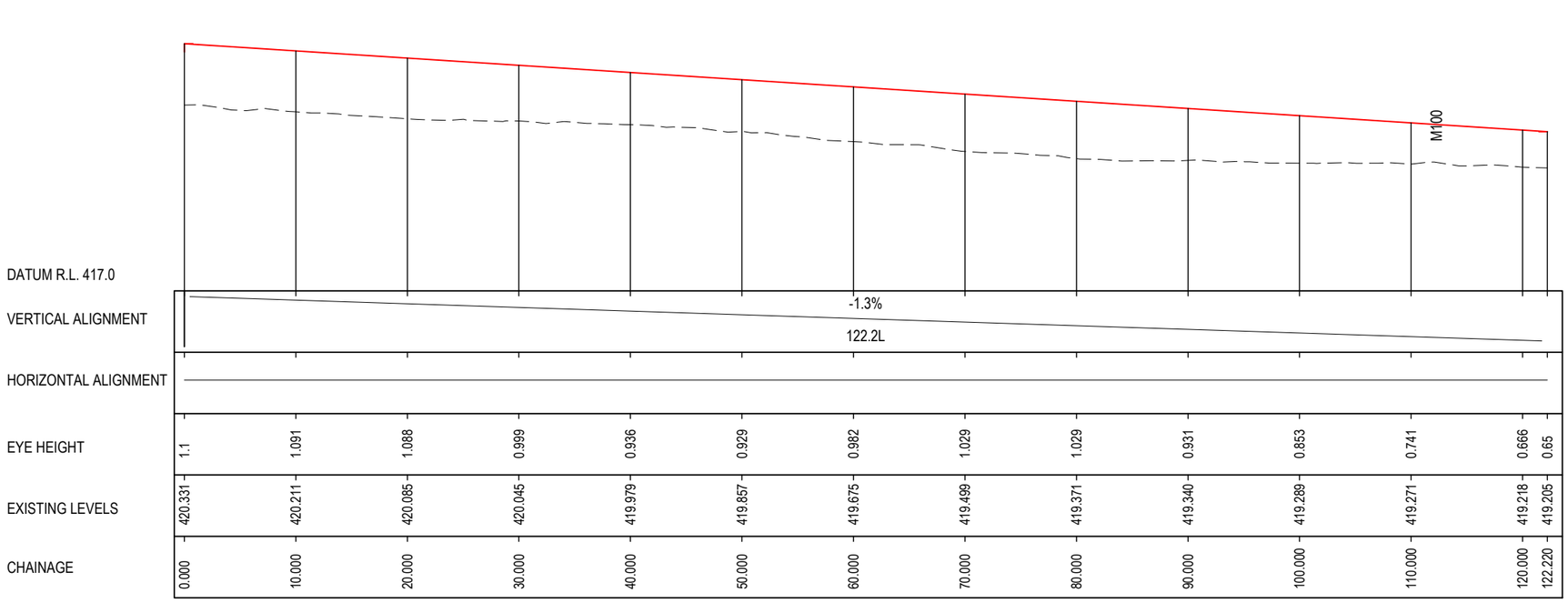
0305-INF-LS-SIGHT_MGSD-01





LONGITUDINAL SECTION ALONG - V SIGHT MGSD MV17 110kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
MINIMUM GAP SIGHT DISTANCE
2 OF 3

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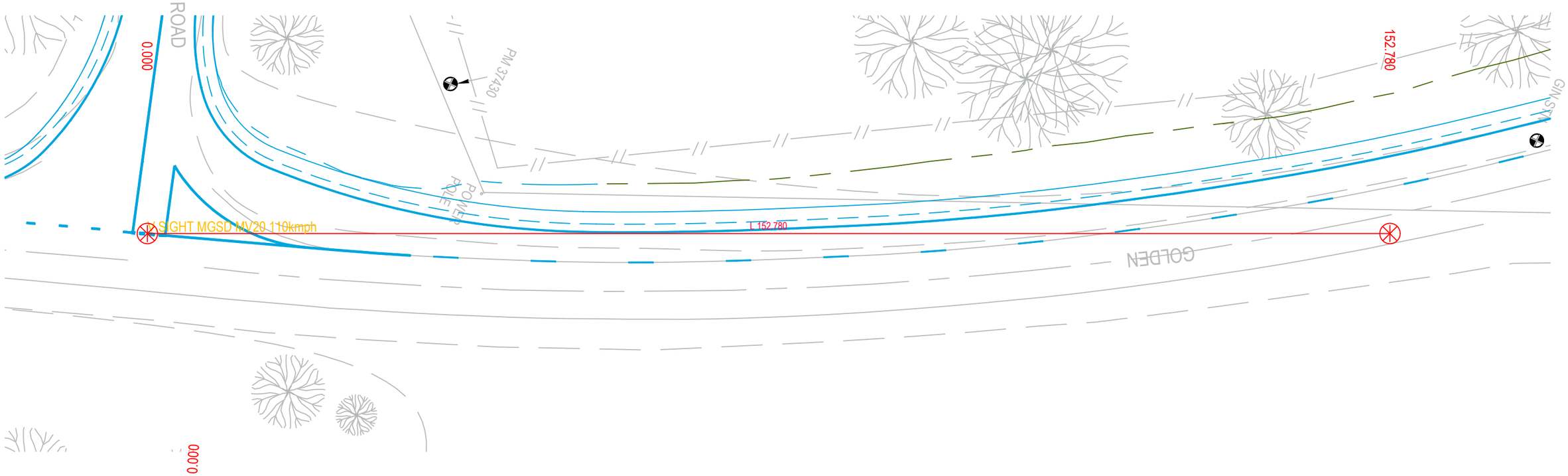
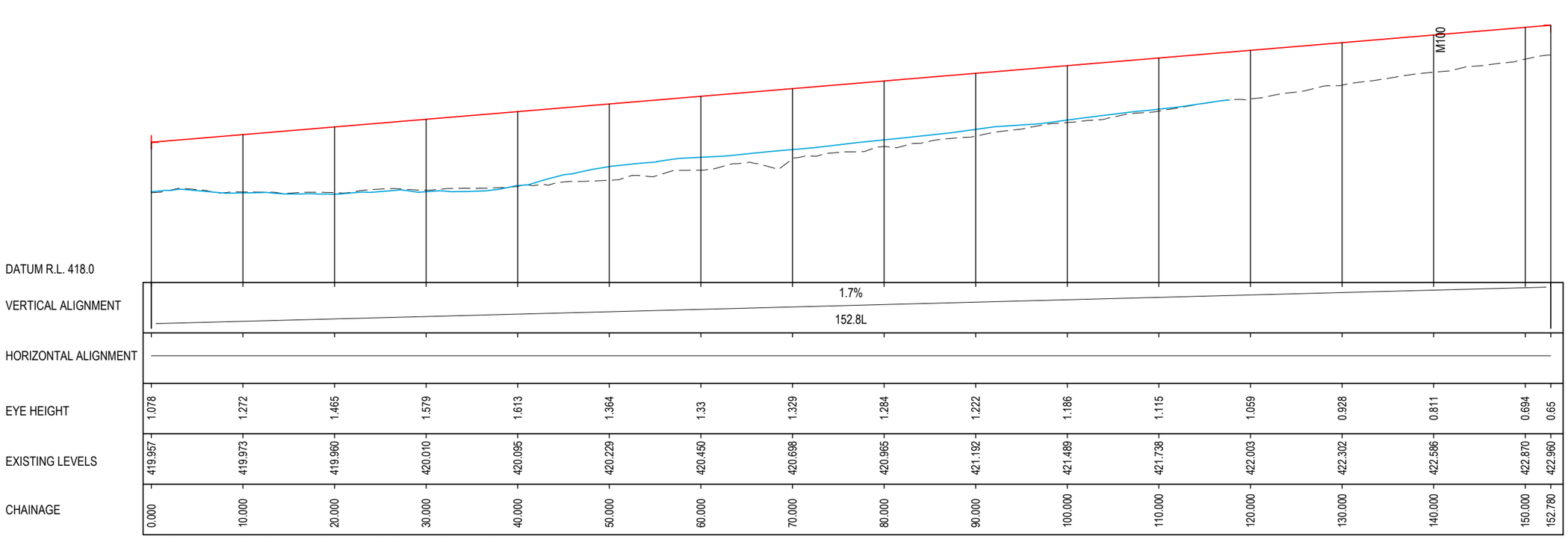
0305-INF-LS-SIGHT_MGSD-02





LONGITUDINAL SECTION ALONG - V SIGHT MGSD MV20 110kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
MINIMUM GAP SIGHT DISTANCE
3 OF 3

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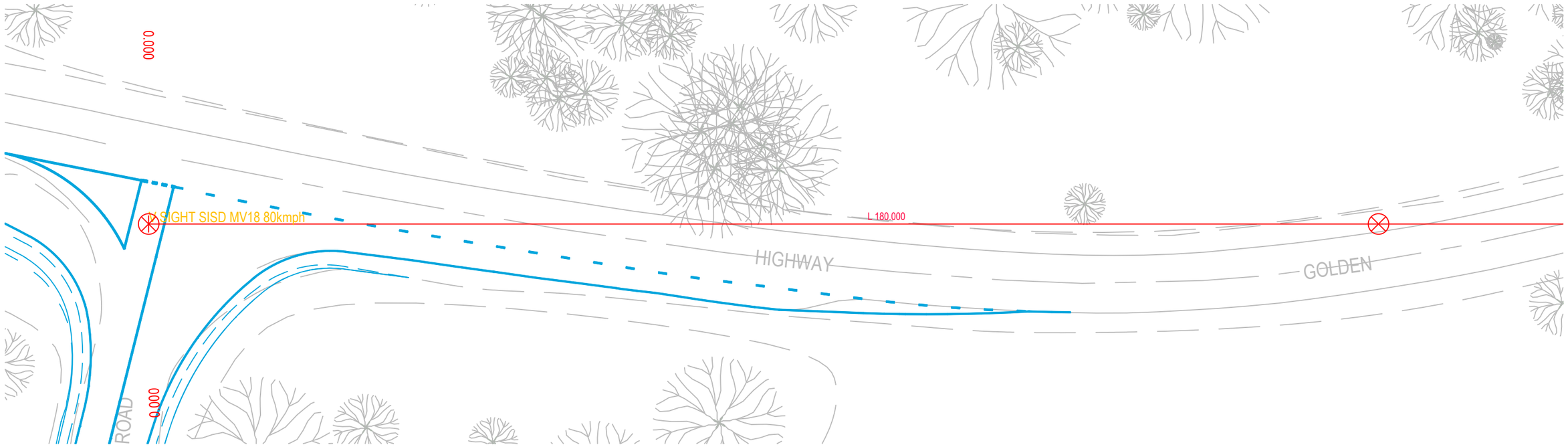
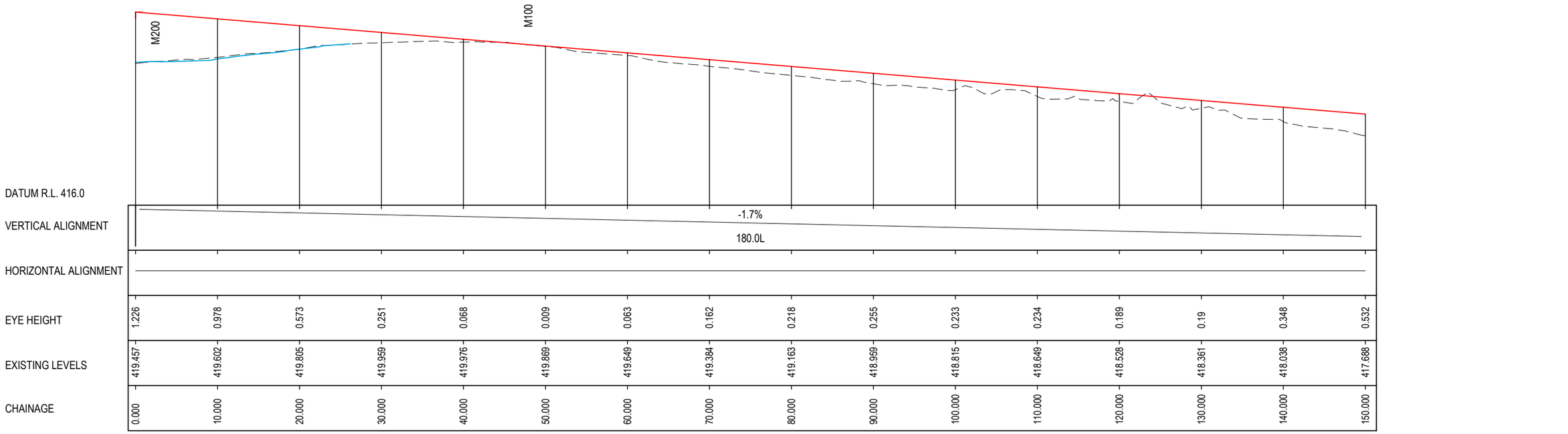
0305-INF-LS-SIGHT_MGSD-03

Ringwood Road and Golden Highway Intersection and Acceleration Lane

Verification Summary - SISD

Location	Design Speed (km/hr)	Eye Height (m)	Object Height (m)	Reaction time (s)	Observation Time (s)	Grade % (average)	SISD Required (m)	SISD Achieved (m)	SISD Control	Result (Pass/Fail)	Comments
Golden Highway WB and Ringwood Road NB Intersection	110	1.25	1.1	2	3	2	277.48	180	MV18	FAIL	80km/h SISD achieved. Matching existing conditions, existing intersection is following a curved section of the Golden Highway and is uphill. Sight distance obstructed by existing road geometry.
Golden Highway EB and Ringwood Road NB Intersection	110	1.25	1.1	2	3	-2	292.07	292.07	MV19	PASS	May be obstructed by existing trees.





LONGITUDINAL SECTION ALONG - V SIGHT SISD MV18 80kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
SAFE INTERSECTION SIGHT DISTANCE
1 OF 4

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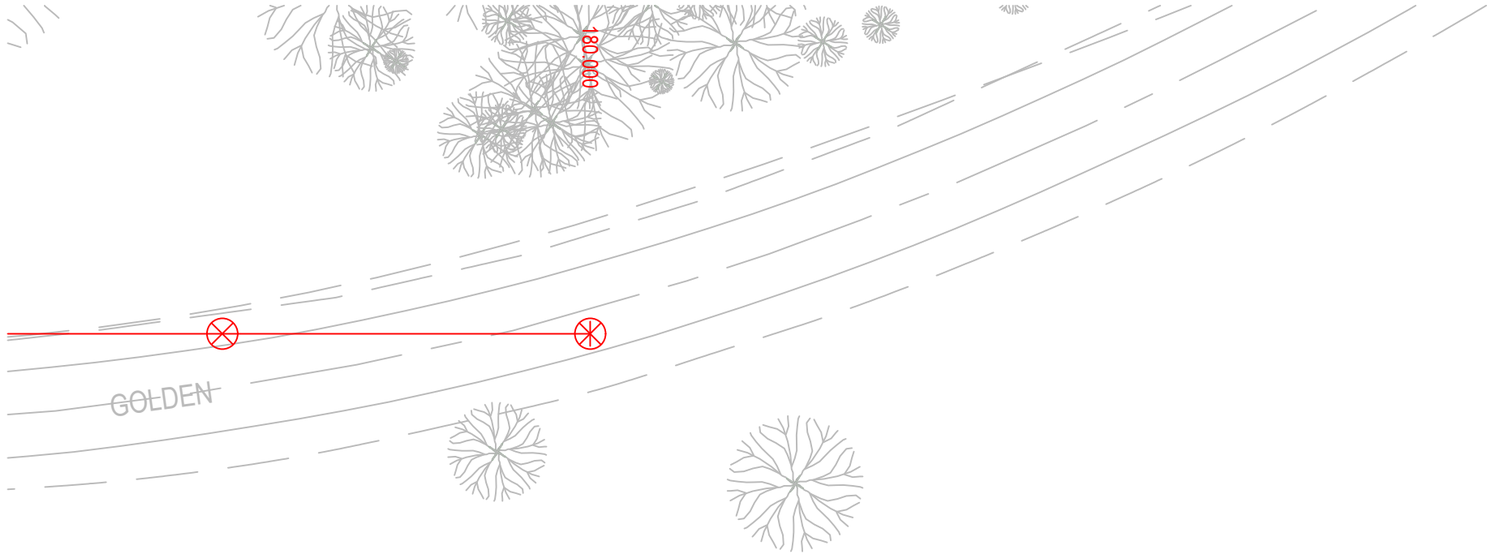
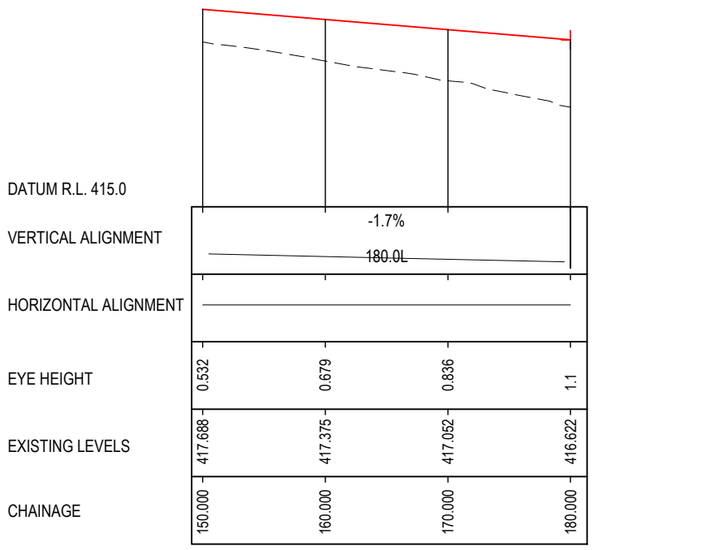
0305-INF-LS-SIGHT_SISD-01





LONGITUDINAL SECTION ALONG - V SIGHT SISD MV18 80kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
SAFE INTERSECTION SIGHT DISTANCE
2 OF 4

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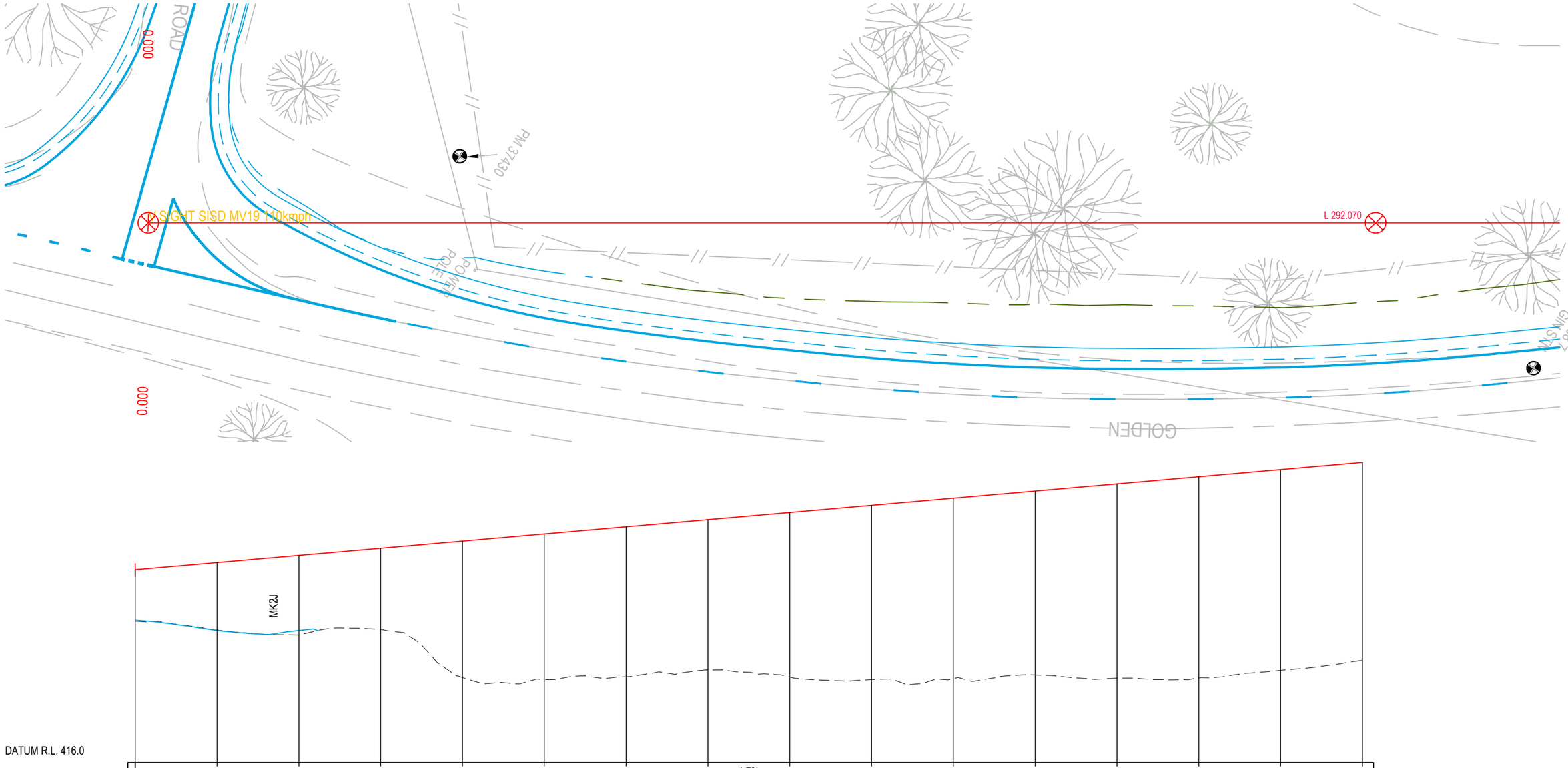
0305-INF-LS-SIGHT_SISD-02



LONGITUDINAL SECTION ALONG - V SIGHT SISD MV19 110kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
SAFE INTERSECTION SIGHT DISTANCE
3 OF 4

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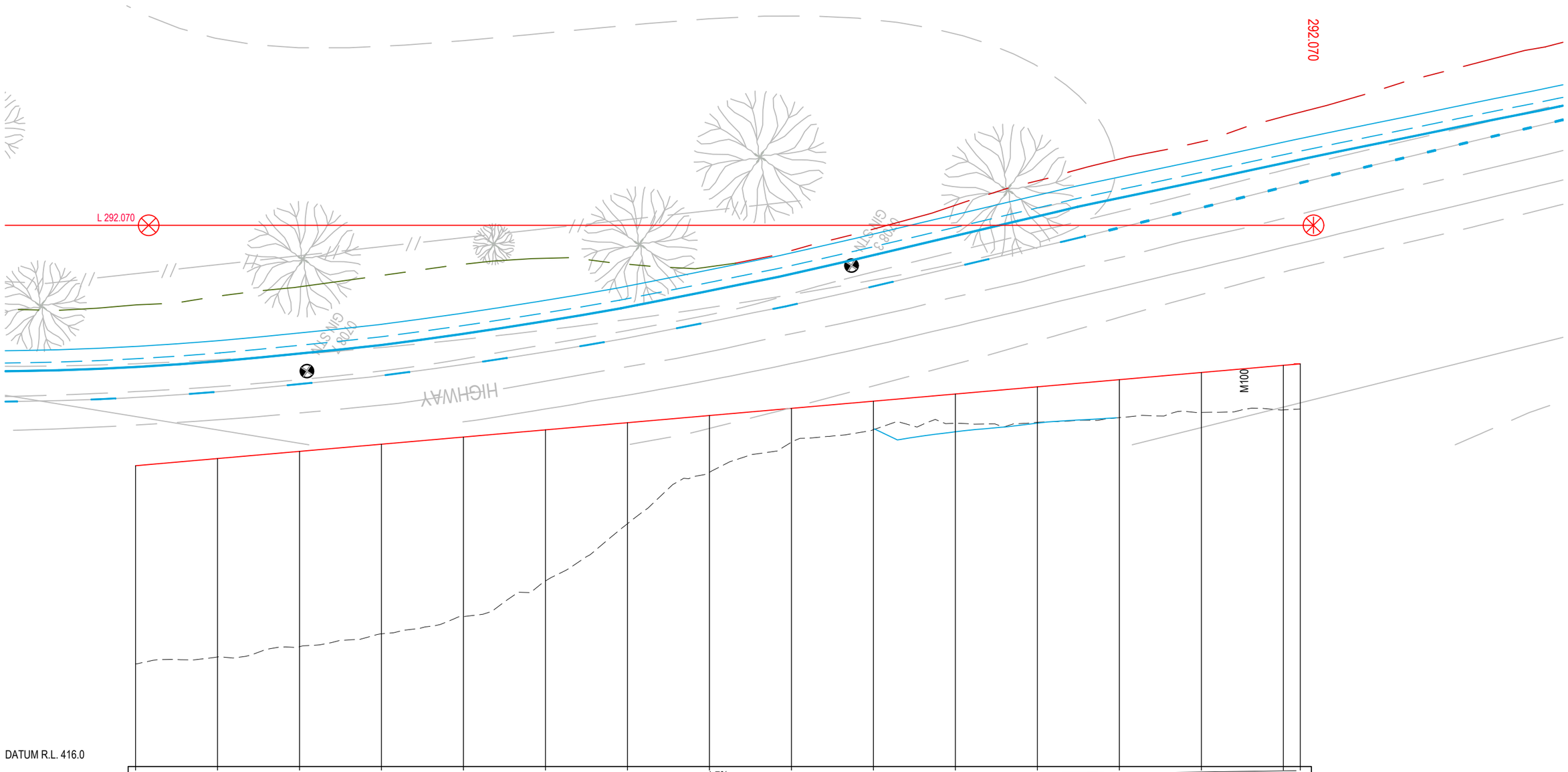
0305-INF-LS-SIGHT_SISD-03



DATUM R.L. 416.0																	
VERTICAL ALIGNMENT	1.7% 292.1L																
HORIZONTAL ALIGNMENT																	
EYE HEIGHT	4.83	4.835	4.758	4.621	4.374	3.683	2.461	1.385	0.824	0.696	0.92	0.886	0.924	0.972	1.087	1.1	
EXISTING LEVELS	418.499	418.669	418.921	419.233	419.654	420.521	421.917	423.168	423.903	424.207	424.364	424.389	424.503	424.630	424.690	424.713	
CHAINAGE	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	292.070	

LONGITUDINAL SECTION ALONG - V SIGHT SISD MV19 110kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
SAFE INTERSECTION SIGHT DISTANCE
4 OF 4

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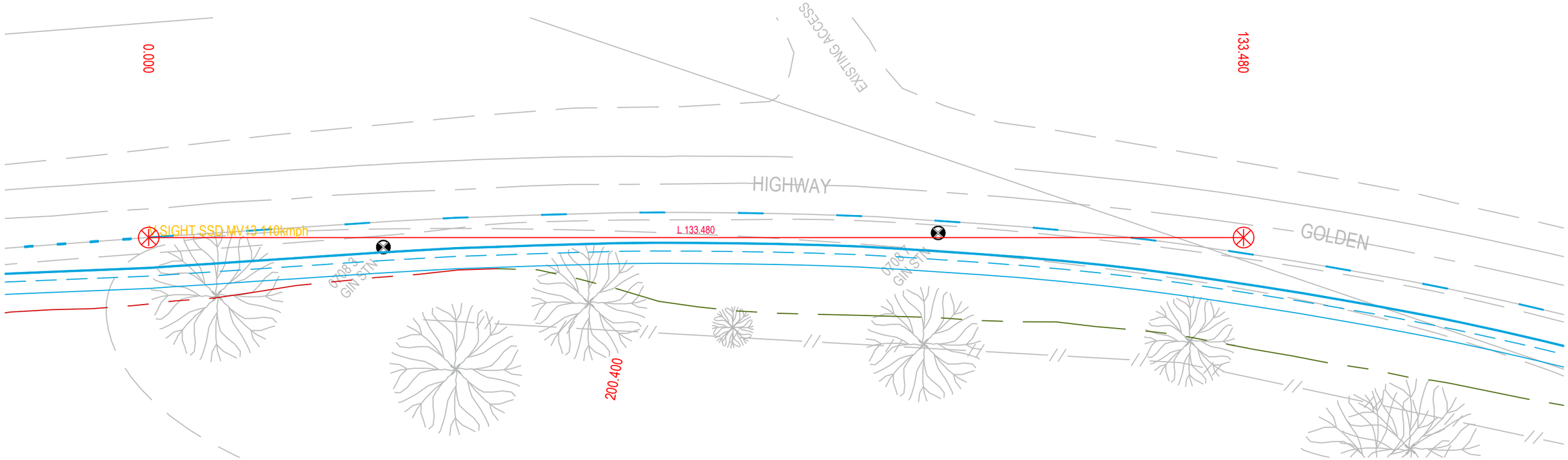
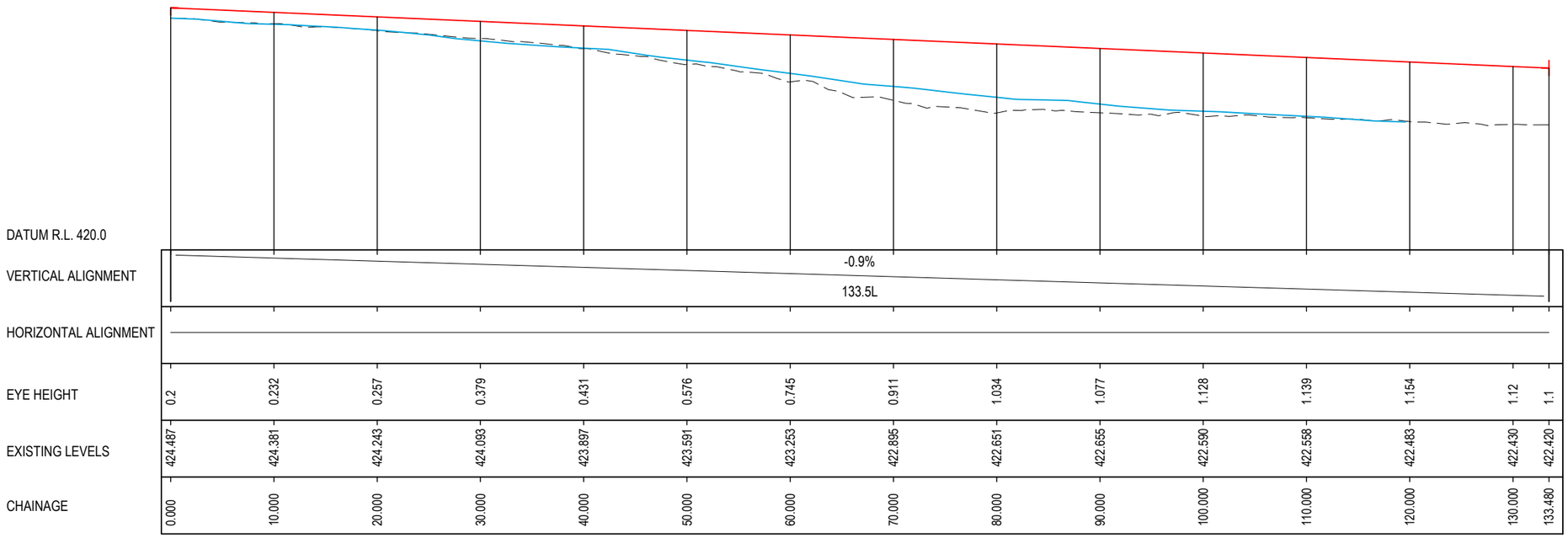
0305-INF-LS-SIGHT_SISD-04

Ringwood Road and Golden Highway Intersection Upgrade and Acceleration Lane

Verification Summary - SSD

Location	Eye Height (m)	Object Height (m)	Design Speed (km/hr)	Reaction time (s)	Grade % (average)	SSD Required (m)	SSD Achieved (m)	SSD Control	Result (Pass/Fail)	Comments
Golden Highway WB Acceleration Lane Merge Taper / End	1.1	0.2	90	2	2	133.48	133.48	MV13	PASS	May be obstructed by existing trees
Golden Highway WB and Ringwood Road Intersection	1.1	0.2	110	2	1	189.17	135	MV16	FAIL	89km/h SSD achieved. Matching existing conditions, existing intersection is following a curved section of the Golden Highway and is uphill. Sight distance obstructed by existing road geometry.
Golden Highway EB and Ringwood Road Intersection	1.1	0.2	110	2	-2	200.4	200.4	MV14	PASS	May be obstructed by existing trees





LONGITUDINAL SECTION ALONG - V SIGHT SSD MV13 110kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
STOPPING SIGHT DISTANCE
1 OF 4

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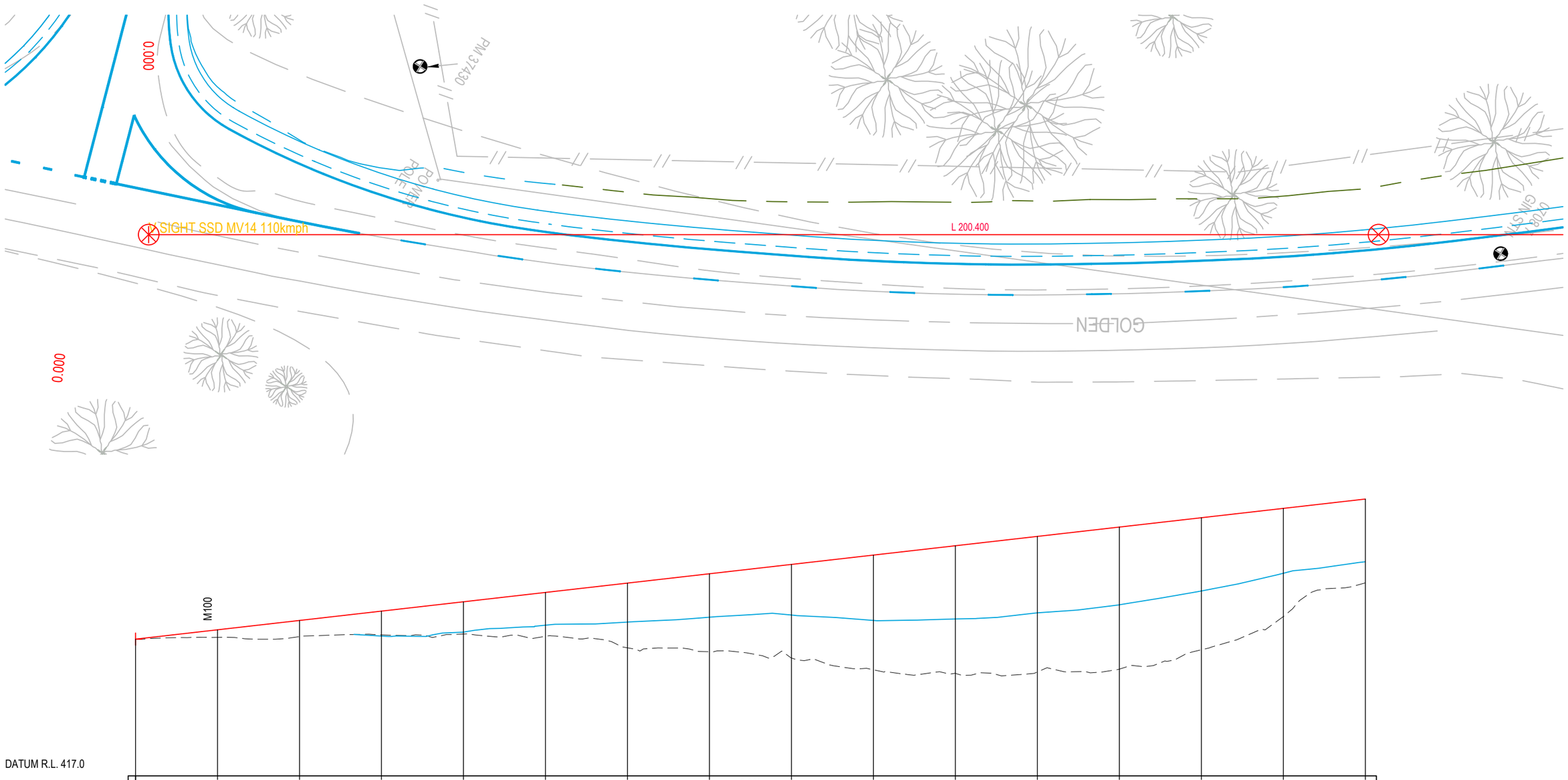
0305-INF-LS-SIGHT_SSD-01



LONGITUDINAL SECTION ALONG - V SIGHT SSD MV14 110kmph

HORIZONTAL 1:500
VERTICAL 1:100

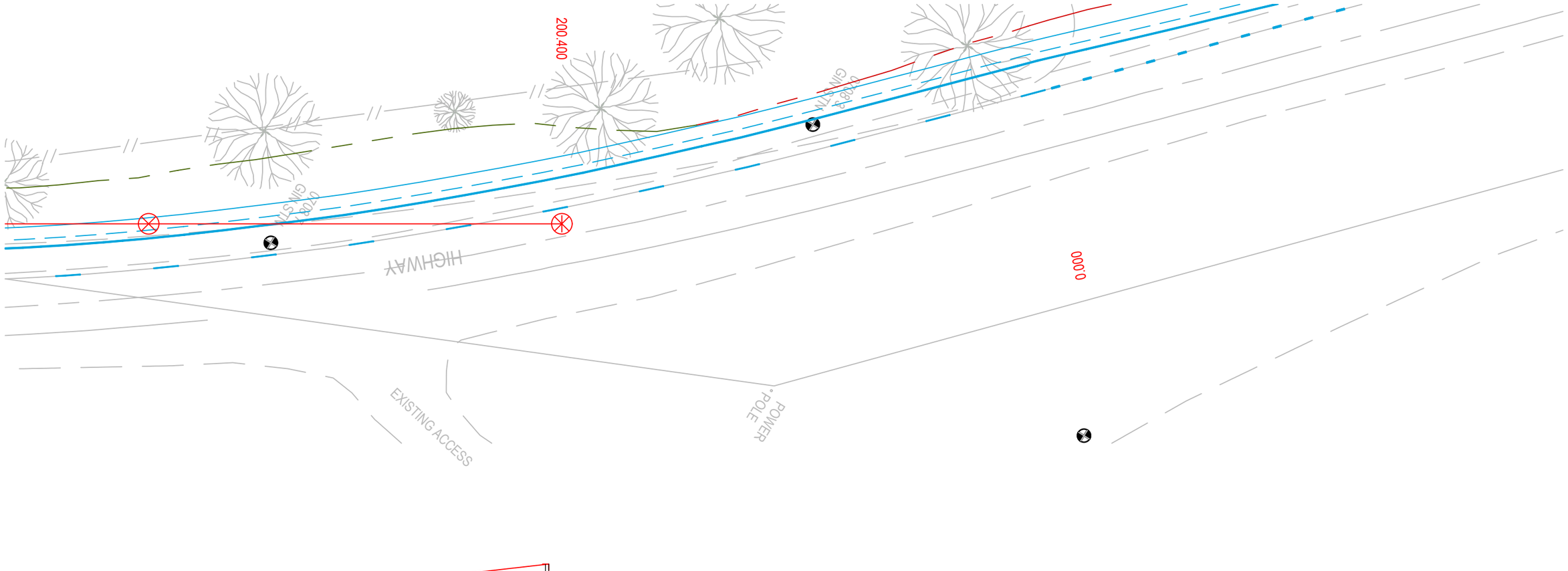
FOR INFORMATION ONLY

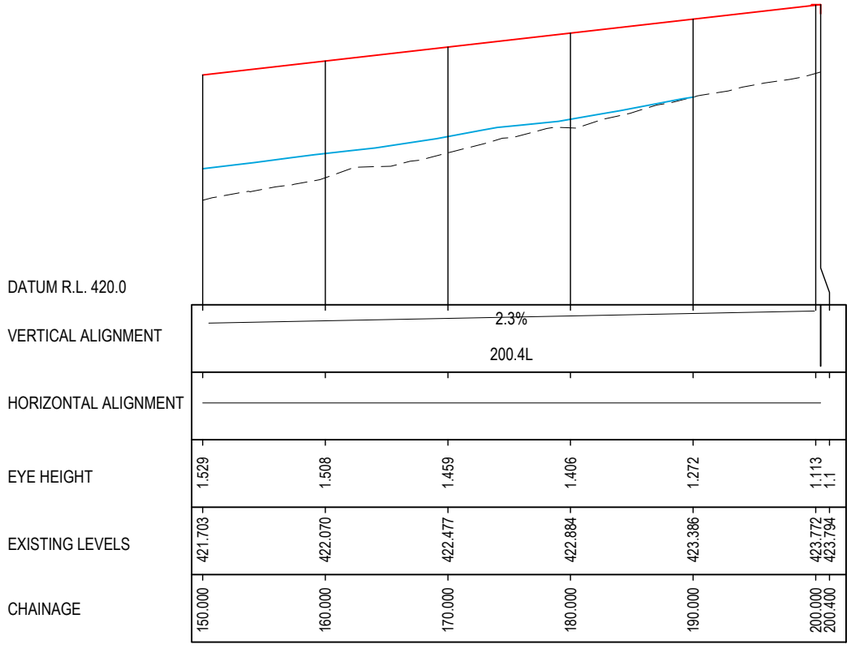
HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
STOPPING SIGHT DISTANCE
2 OF 4

turnbull

0305-INF-LS-SIGHT_SSD-02





LONGITUDINAL SECTION ALONG - V SIGHT SSD MV14 110kmph

HORIZONTAL 1:500
VERTICAL 1:100

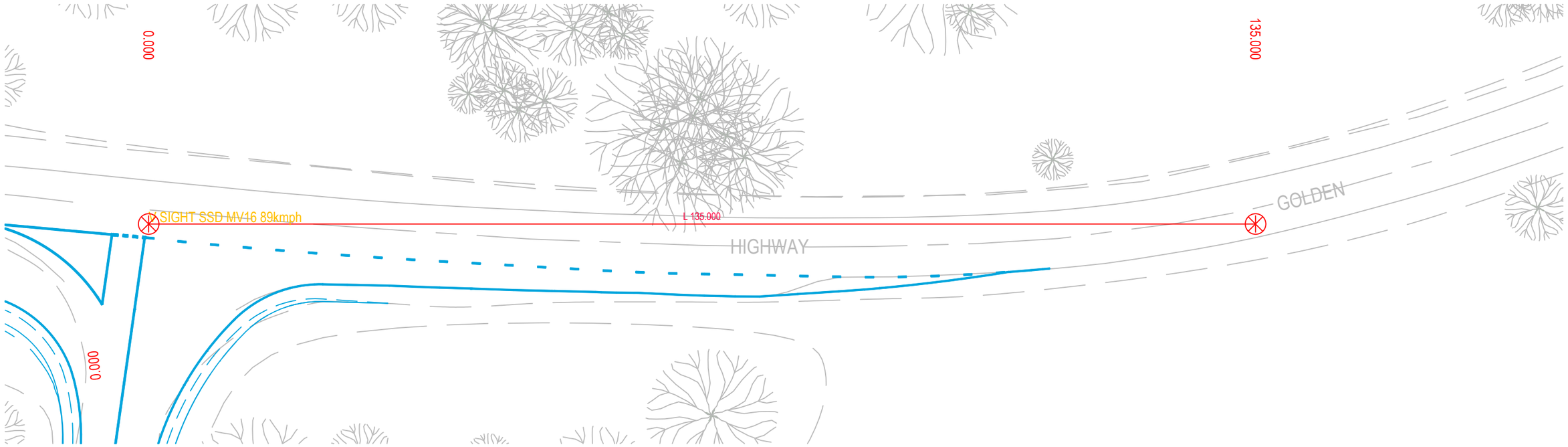
FOR INFORMATION ONLY

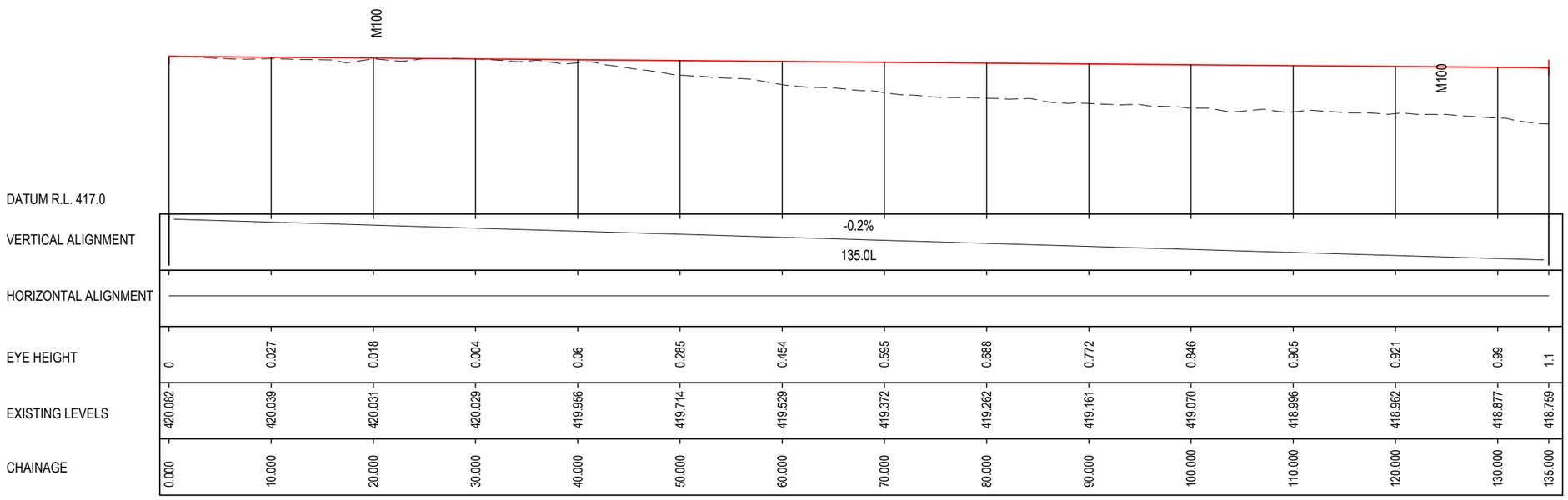
HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
STOPPING SIGHT DISTANCE
3 OF 4

turnbull

0305-INF-LS-SIGHT_SSD-03





LONGITUDINAL SECTION ALONG - V SIGHT SSD MV16 89kmph

HORIZONTAL 1:500
VERTICAL 1:100

FOR INFORMATION ONLY

HORIZ. 1:500m
0 5 10 15 20
0 1 2 3 4
VERT. 1:100m

GOULBURN RIVER SOLAR FARM
RINGWOOD ROAD AND GOLDEN HIGHWAY INTERSECTION
SIGHT DISTANCE CHECKS
STOPPING SIGHT DISTANCE
4 OF 4

turnbull

0305-INF-LS-SIGHT_SSD-04

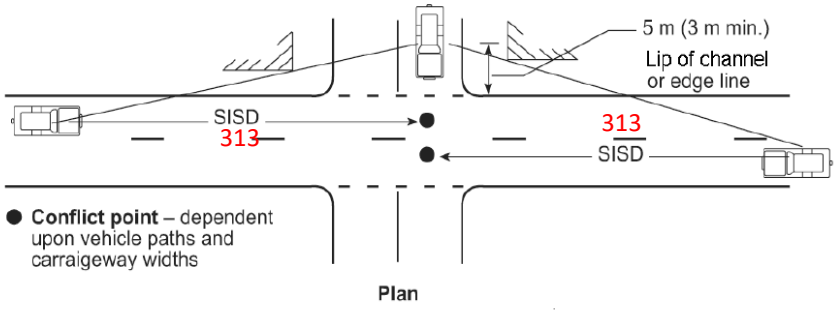
Appendix D Wollar Road / Ringwood Road intersection SISD checks

Safe Intersection Sight Distance (SISD) for Cars

Source: Austroads Guide to Road Design
Part: Part 4A: Unsignalised and Signalsied Intersections
Edition: February 2021
Section: 3.2.2 - Equation 2

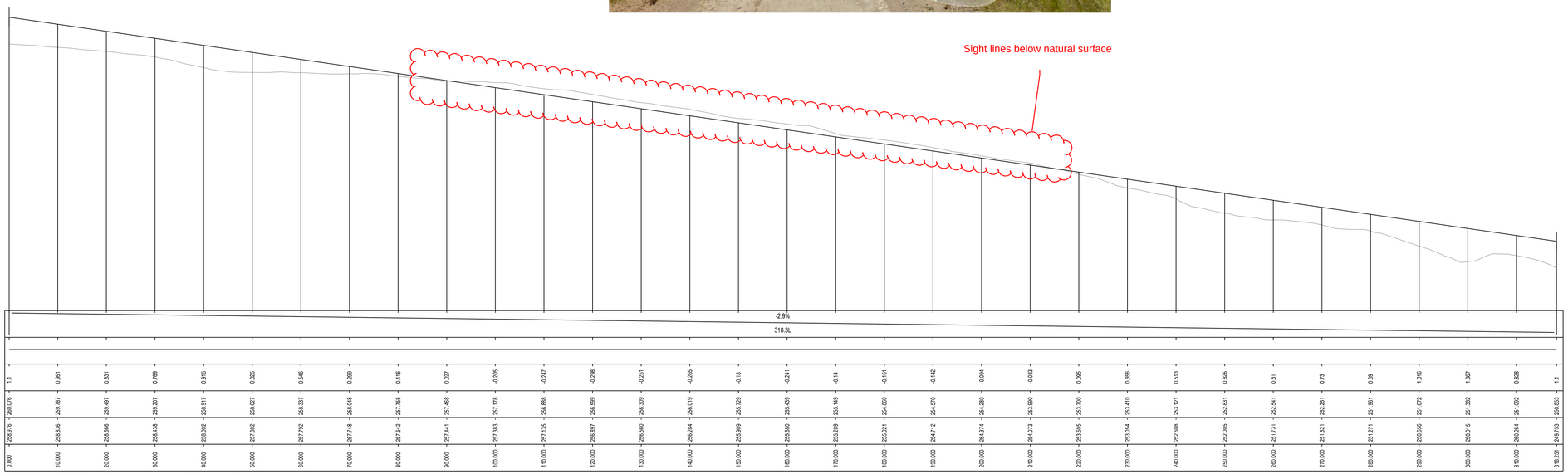
Summary of Outputs

Figure 3.2: Safe intersection sight distance (SISD)



Parameter Inputs				
Coefficient	*Value*	*Unit*	*Reference / Note*	
Driver Eye	1.1	m	Part 3: Section 3.2.2	
Target Eye	1.1	m	Part 3: Section 3.2.2	!Top of car
Rt	2.5	s	Part 3: Table 5.2	
V	110	km/h	Design speed of road	
d	0.36		Part 3: Table 5.3	
a	-3	%	Longitidunal grade	

Calculations				
Coefficient	*Value*	*Unit*	*Reference / Note*	
Dt	5.5	s	Part 4A: Equation 2	!Plus 3 seconds to Rt
SISD	313	m	Part 4A: Equation 2	!Rounded up to integer



LONGITUDINAL SECTION ALONG - Mutual Eye Height SISD Eastbound 110kmh

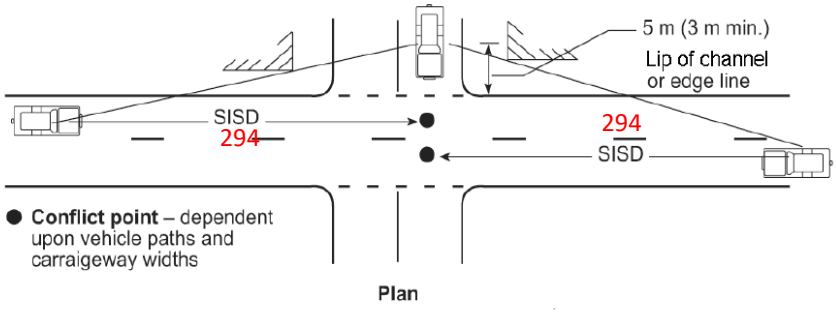
HORIZONTAL 1:500
VERTICAL 1:100

Safe Intersection Sight Distance (SISD) for Cars

Source: Austroads Guide to Road Design
Part: Part 4A: Unsignalised and Signalsied Intersections
Edition: February 2021
Section: 3.2.2 - Equation 2

Summary of Outputs

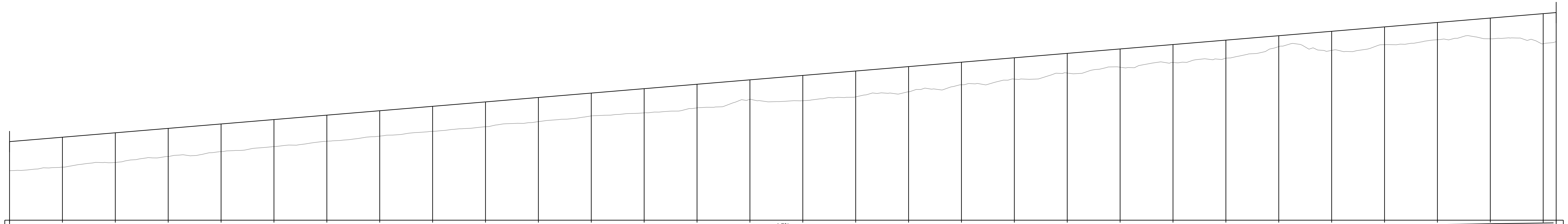
Figure 3.2: Safe intersection sight distance (SISD)



Plan

Parameter Inputs				
Coefficient	*Value*	*Unit*	*Reference / Note*	
Driver Eye	1.1	m	Part 3: Section 3.2.2	
Target Eye	1.1	m	Part 3: Section 3.2.2	!Top of car
Rt	2.5	s	Part 3: Table 5.2	
V	110	km/h	Design speed of road	
d	0.36		Part 3: Table 5.3	
a	2	%	Longitidunal grade	

Calculations				
Coefficient	*Value*	*Unit*	*Reference / Note*	
Dt	5.5	s	Part 4A: Equation 2	!Plus 3 seconds to Rt
SISD	294	m	Part 4A: Equation 2	!Rounded up to integer



DATUM R.L. 243.0

VERTICAL ALIGNMENT: 1.7% — 292.5L

HORIZONTAL ALIGNMENT

CHAINAGE	EYE HEIGHT	DESIGN LEVELS	EXISTING LEVELS
0.000	1.1	245.972	244.872
10.000	1.133	246.138	245.006
20.000	1.122	246.305	245.184
30.000	1.063	246.472	245.409
40.000	1.047	246.639	245.592
50.000	1.023	246.806	245.783
60.000	0.986	246.973	245.987
70.000	0.96	247.140	246.179
80.000	0.945	247.307	246.362
90.000	0.94	247.474	246.534
100.000	0.912	247.641	246.729
110.000	0.864	247.808	246.943
120.000	0.915	247.974	247.060
130.000	0.893	248.141	247.249
140.000	0.738	248.308	247.570
150.000	0.958	248.475	247.517
160.000	0.978	248.642	247.664
170.000	0.953	248.809	247.856
180.000	0.855	248.976	248.121
190.000	0.806	249.143	248.336
200.000	0.744	249.310	248.565
210.000	0.69	249.477	248.786
220.000	0.681	249.643	248.962
230.000	0.68	249.810	249.130
240.000	0.413	249.977	249.565
250.000	0.722	250.144	249.422
260.000	0.672	250.311	249.639
270.000	0.653	250.478	249.825
280.000	0.785	250.645	249.860
290.000	1.135	250.812	249.676
292.455	1.1	250.853	249.753

LONGITUDINAL SECTION ALONG - Mutual Eye Height SISD Westbound 110kmh

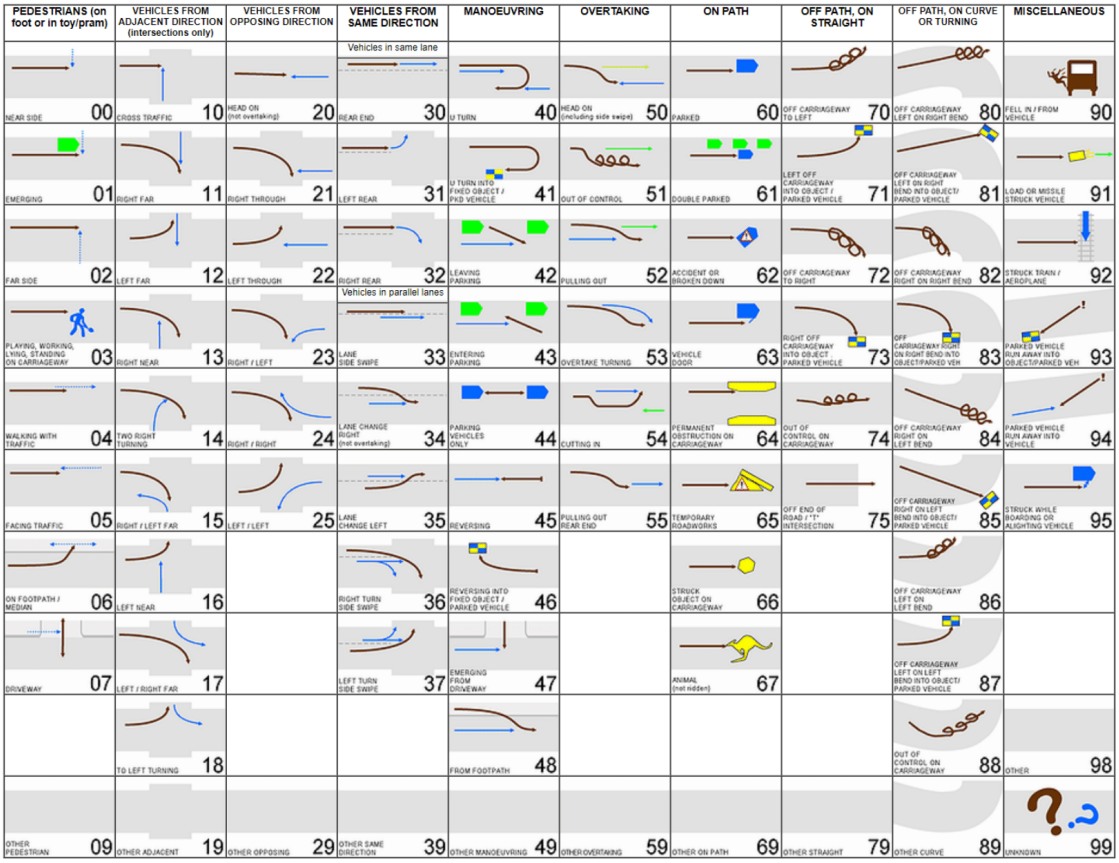
HORIZONTAL 1:500
VERTICAL 1:100

Appendix E Crash history

Severity of crash	Year	Location	Town	RUM code
Fatal	2018	Cullingral Road 2.2km south of Golden Highway	Merriwa	87
	2021	Macartney Street at Old Scone Road	Merriwa	85
	2021	Golden Highway 200m west of Wyoming Road	Cassilis	20
	2022	Flaggs Road 100m north of house number 1246	Merriwa	85
Serious Injury	2018	Wollar Road 100m west of Ringwood Road	Wollar	88
	2018	Flaggs Road 3km south of Merriwa	Merriwa	80
	2018	Gooch Street 300m south of Glebe Street	Merriwa	75
	2018	Golden Highway 2km north of Flaggs Road	Gungal	20
	2019	Bylong Valley Way 8km east of Wollar Road	Murrumbo	85
	2019	Bylong Valley Way 8m north of Upper Bylong Road	Murrumbo	80
	2019	Bylong Valley Way 10.5km east of Wollar Road	Murrumbo	84
	2019	Bylong Valley Way 3.8km east of Wollar Road	Bylong	20
	2019	Golden Highway 160m west of Bow Street	Merriwa	81
	2020	Golden Highway 5km east of Westwood Road	Gungal	30
	2020	Golden Highway 1km east of Redwell Road	Merriwa	73
	2021	Golden Highway at Quigley Street	Merriwa	81
	2021	Golden Highway 5km west of Westwood Road	Merriwa	20
	2021	Cullingral Road 1km south of Golden Highway	Merriwa	71
	2022	Golden Highway at house number 5993	Merriwa	80
	2022	Golden Highway 10km west of Ringwood Road	Merriwa	71
	2022	Golden Highway at Brisbane Street	Merriwa	71
	2022	Golden Highway 1km west of Ringwood Road	Merriwa	87
	2022	Golden Highway 2km south of Westwood Road	Gungal	85
	2022	Golden Highway 1km east of Wyoming Road	Cassilis	70
Moderate Injury	2018	Bylong Valley Way 3km east of Wollar Road	Bylong	80
	2018	Golden Highway 10km east of Merriwa	Merriwa	81
	2018	Golden Highway 10km east of Merriwa	Merriwa	84
	2018	Hall Road 500m west of Flaggs Road	Merriwa	90
	2018	Golden Highway at house number 7675	Merriwa	71
	2018	Golden Highway 5km west of Glenroy Road	Merriwa	71
	2019	Golden Highway 2km west of Dunblane Road	Merriwa	81
	2019	Wollara Road 22.7km south of Golden Highway	Merriwa	80
	2019	Cullingral Road 3km north of Tunbridge Road	Merriwa	88
	2019	Golden Highway at Ulan Road	Cassilis	13
	2020	Flight Springs Road at house number 494	Merriwa	71
	2020	Golden Highway 200m east of Comialla Road	Cassilis	72
	2020	Golden Highway at Ulan Road	Cassilis	13
	2020	Golden Highway 1.3km west of Cornialla Road	Cassilis	88
	2021	Golden Highway 5km east of Merriwa	Merriwa	73
	2021	Golden Highway 5.5km east of Prices Lane	Merriwa	42
	2021	Golden Highway 1.3km east of Pembroke Road	Cassilis	30
	2022	Ringwood Road 1km west of Flight Springs Road	Merriwa	70
	2022	Bunnan Road 20km east of Coulsen Creek Road	Bunnan	67
	2022	Golden Highway 400m west of Forest Reserve Road	Merriwa	40
	2022	Golden Highway 200m east of Idaville Road	Merriwa	74

Minor / Other Injury	2020	Bylong Valley Way 10km east of Wollar Road	Murrumbo	67
	2020	Golden Highway 30km west of Merriwa	Cassilis	67
	2020	Vennacher Street at Hayes Street	Merriwa	71
Non-casualty (towaway)	2018	Bylong Valley Way 400m east of Wollar Road	Bylong	71
	2018	Bylong Valley Way 4.9km east of Wollar Road	Bylong	84
	2018	Scone Road 2km east of Coulsons Creek Road	Merriwa	67
	2018	Golden Highway 1km west of Pembroke Road	Cassilis	71
	2018	Golden Highway 280m east of Ulan Road	Cassilis	87
	2019	Bylong Valley Way 20km north of Lee Creek Road	Bylong	84
	2019	Bunnan Road 18km north of Coulsen Creek Road	Bunnan	67
	2019	Golden Highway 260m east of Ulan Road	Cassilis	85
	2020	Golden Highway 300m north of Flaggs Road	Gungal	73
	2020	Golden Highway 300m east of Lowlers Lane	Merriwa	71
	2020	Golden Highway 1km west of Cullingral Road	Merriwa	74
	2021	Ulan Road 700m south of Golden Highway	Cassilis	85
	2021	Golden Highway 4km west of Cassilis Road	Cassilis	81
	2021	Golden Highway at house number 8661	Cassilis	88
	2021	Golden Highway 2km north of Westwood Road	Gungal	67
	2021	Golden Highway 4.3km north of Flaggs Road	Gungal	85
	2021	Golden Highway 2.8km west of Redwell Road	Merriwa	86
	2022	Ringwood Road 5km west of Golden Highway	Merriwa	81
	2022	Golden Highway 2km west of Ringwood Road	Merriwa	87
	2022	Golden Highway 10km west of Bow Street	Merriwa	74
	2022	Golden Highway 1.7km west of Westwood Road	Gungal	20
	2022	Golden Highway 20km west of Merriwa	Merriwa	52

RUM code table



Appendix F OSOM vehicle checks

HARRYAN
ENGINEERING COUNSULTING

CLIENT:
lightsource bp

DATE:	REVISION:	DESCRIPTION:
09.02.2023	0	CLIENT REVIEW

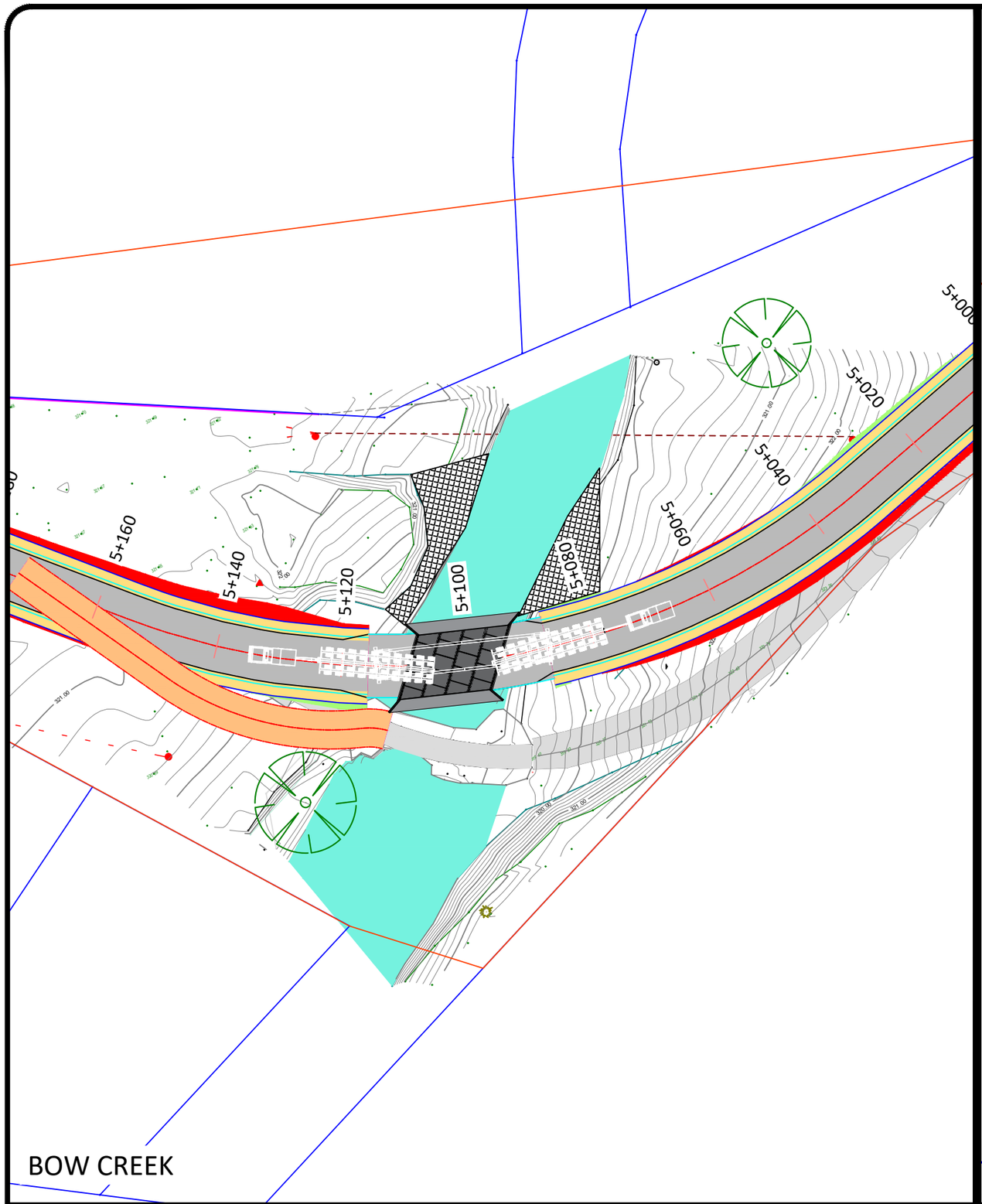
PROJECT:
RINGWOOD ROAD UPGRADE

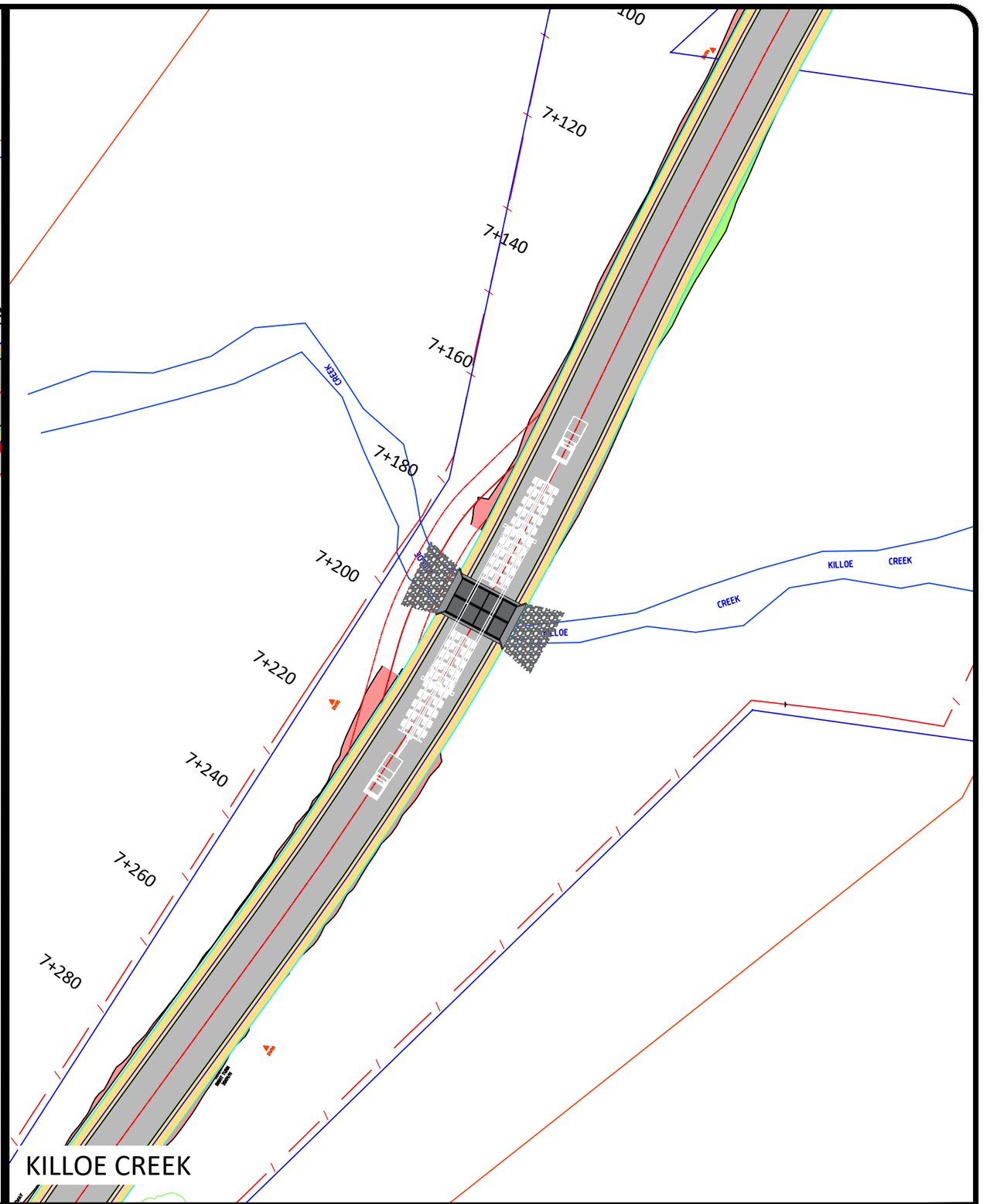
DRAWING TITLE:
SWEPTH PATHS

ISSUE STATUS:
CLIENT REVIEW

SCALE: 1:750 @ A3
DWG No: HEC22_
JOB No: 22Q3J3
COORDINATE SYSTEM: MGA ZONE 56 GDA 2020
DATUM: AHD

SURVEYED: OTHERS
DESIGNED: RS
DRAWN: RJ
SHEET: 1
REV: 0





HARRYAN
ENGINEERING COUNSULTING

CLIENT:
lightsource bp

DATE:	REVISION:	DESCRIPTION:
09.02.2023	0	CLIENT REVIEW

PROJECT:
RINGWOOD ROAD UPGRADE

DRAWING TITLE:
SWEPTH PATHS

ISSUE STATUS:
CLIENT REVIEW

SCALE: 1:750 @ A3
SURVEYED: OTHERS
DWG No: HEC22_
JOB No: 22Q3J3
DESIGNED: RS
DRAWN: RJ
COORDINATE SYSTEM: MGA ZONE 56 GDA 2020
DATUM: AHD
SHEET: 2
REV: 0

Appendix G OSOM Transport Management Plan for Avonlea Solar Farm

REX J ANDREWS
ENGINEERED TRANSPORTATION

TRANSPORT MANAGEMENT PLAN

CLIENT: DEUGRO

PROJECT: AVONLEA SOLAR FARM

PORT OF IMPORT: MAYFIELD #4 BERTH NEWCASTLE

DELIVERY POINT: MUNTZ ROAD SANDIGO

22/03/2022 REV 02

Rev.	Date	Change	Responsible	Checked
00	24/01/22	Route Assessed	C Ewin	✓
00	14/02/22	Report compiled	W Andrews	✓
00	21/02/22	Report completed	W Andrews	✓
01	22/02/22	Edits.	W Andrews	✓
02	22/03/22	Updated route at Parkes	W Andrews	✓

Index:

1.0 Introduction

This document describes observations and previous experience on route and explains the Transport of a Transformer from Mayfield, NSW to Sandigo NSW.

This Route study took place on 24.01.22

2.0 Evaluation

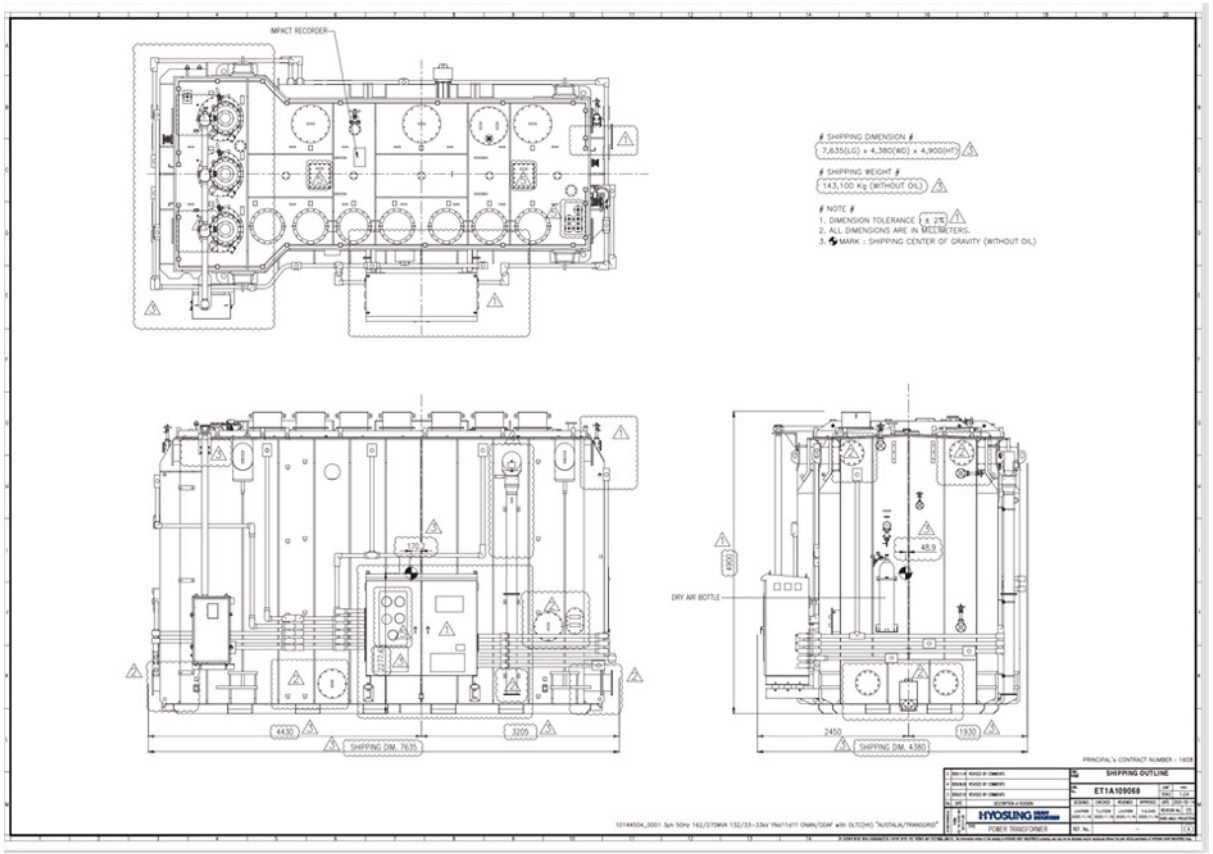
1	No Cost
2	Some Work
3	Urgent Modification
4	Extreme Amount of Work

(Mark below boxes with an X)

		1	2	3	4
A	Harbour	**N/A**			
B	Road Modification	**X**			
C	Road Furnishings	**X**			
D	Trees		**X**		
E	Site Entrance	**X**			
F	Bridge Calculations		**X**		
G	Traffic Control		**X**		

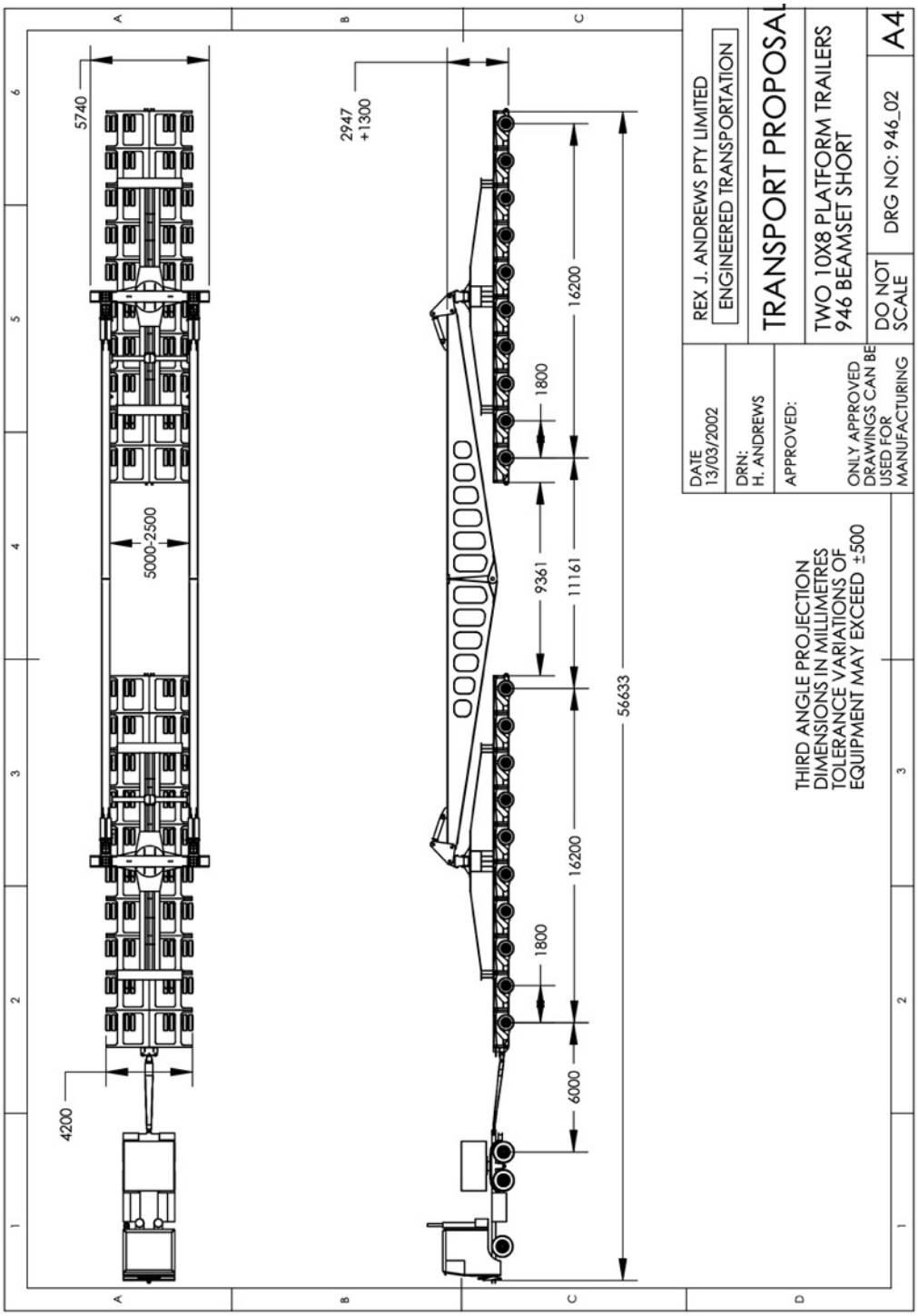
3.0 Project data.

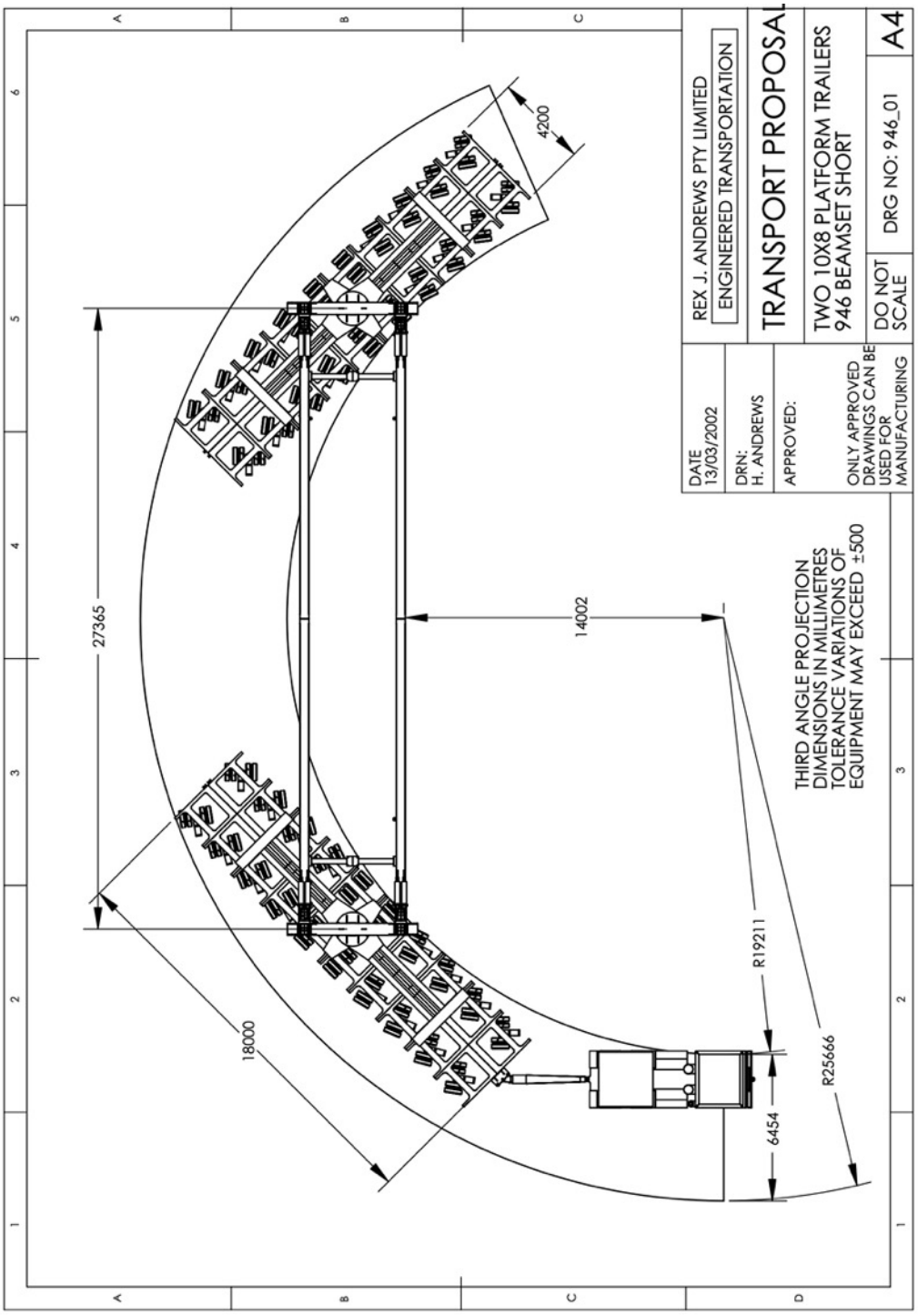
Date of latest Route Study. 24/01/22
Survey undertaken by. (Rex J Andrews P/L)
Project name. Avonleigh Solar Farm
Route. Mayfield NSW to Sandigo NSW Australia
Transformer dimensions: 7.8l x 4.4w x 4.9h x 143.0T



Transport combination type: 4 x block trucks with 10x8-10x8 Beamset
Transport combination tare weight: 216.5T
Transport combination overall dimensions:
110 long x 6.5 wide x 5.6 high x 359.0 Ton

4.0 Transport Drawing.




REX J. ANDREWS PTY LIMITED
ENGINEERED TRANSPORTATION
TRANSPORT PROPOSAL
TWO 10X8 PLATFORM TRAILERS
946 BEAMSET SHORT
DO NOT SCALE
DRG NO: 946_01
A4
DATE 13/03/2002
DRN: H. ANDREWS
APPROVED:
ONLY APPROVED DRAWINGS CAN BE USED FOR MANUFACTURING
THIRD ANGLE PROJECTION
DIMENSIONS IN MILLIMETRES
TOLERANCE VARIATIONS OF EQUIPMENT MAY EXCEED ±500
4200
27365
14002
18000
R19211
R25666
6454

5.0 Transport Route.

ROUTE: Newcastle Port (Mayfield #4 berth) to Sandigo, 823.0 kilometres:

This route took us via Selwyn street, George Street, Industrial Drive, Maitland Road, New England Highway, John Renshaw Drive, Hunter Expressway, New England Highway, Golden Highway, Boothenba Road,Troy Bridge Road, Bunglegumbie Road, Mitchell Highway, Manildra Street, Derribong Avenue, Algalah Street, Tomingley Road, Newell Highway, Thomas Street, Moulden Street,Back Trundle Road, Ross Road, Henry Parkes Way, Westlime Road, Hartigan Avenue, Newell Highway, Compton Road, Showground Road, Newell Highway, Sturt Highway, Sandigo Road, Muntz Road.

GPS LINK: https://goo.gl/maps/Vwd1QXaorcU3KMkX6

6.0 Transport conditions

The following are the conditions and pinch points for this route:

- No unnecessary noise to be made before 7.00am.
- A prestart meeting to be held between the truck drivers, Pilots & Police before load departs.
- If for any reason communications fail between any of the pilot, escort of load vehicle occurs, the load is to cease until such time as it can be re-established.
- Load is to travel in the Newcastle and Sydney Metro between 10.00pm and 5.00am weekdays, and 10.00pm and 8.00am weekends. public holiday period.
- Load is to travel in rural areas in daylight hours only.
- Load will require a minimum 2 x police escort & 4 x Company Pilots.
- Client to give adequate access for load to access Avonleigh Solar farm.
- Roadwork's to be checked with RMS 7 days prior to leaving and relayed to client with any potential problems.
- Load to travel at an average speed of 20 km p/hr. However, the load will slow down for bridge crossings, corners and inclines/declines.
- Portable VMS board to travel with the load.
- Load to traverse bridge structures as per TfNSW bridge investigation report.
- Permits/Approval letters from state government authorities to access their networks on this route are to be carried with load.
- Permits/Approval letter from Local councils to access their networks on this route are to be carried with load.
- Permits/Approval letter from Electrical/Communication authorities to pass under their networks on this route are to be carried with load.

7.0 Fatigue scheduling:

REX J ANDREWS PTY LTD
ENGINEERED TRANSPORTATION

Sydney
PO Box 271, Penrith NSW 2751
Ph: 02 4721 7633 Fx: 02 47217644
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Em: adelaide@rja.com.au

Newcastle
16 Yilen Close, Beresfield NSW 2322
Ph: 02 4966 1788 Fx: 02 4966 1744
Em: newcastle@rja.com.au

Trip Schedule

Schedule Details Avonleigh Solar Project
Transportation of a power transformer in a beamset

Sch No SCH02274
Date 21/02/2022 1:28:12 pm
Written By Warrick Andrews
Consulted Carl Andrews

Schedule Notes:
-This Schedule has been written based on values known at the time for good driving conditions and no known fatigue related issues prior to starting the trip.
- Do not drive to the schedule if you fell tired. Stop revive survive
- No attempt should be made to make up for lost time on a schedule.
- Please modify all times according to your real start time.
- You must still fill in your Logbook, exactly as the hours you have worked.

Please work with the Scheduler who wrote this to make the schedule better for all.

Start	End	Hr	Day	Km	avg	Type	Location	Notes
0:15am	0:30am	0.25	1	0	0	Working	Mayfield	Toolbox and prestart
0:30am	5:30am	5.00	1	103	21	Driving	Mayfield to Warkworth	Loaded travel
5:30am	6:00am	0.50	1	0	0	Paid Rest	Warkworth	30 Minute rest break
6:00am	11:00am	5.00	1	94	19	Driving	Warkworth to Merriwa	Loaded travel
11:00am	11:59pm	12.98	1	0	0	Rest	Merriwa	Minimum 7 hour rest break
12:00am	5:45am	5.75	2	0	0	Rest	Merriwa	Minimum 7 hour rest break
5:45am	6:00am	0.25	2	0	0	Working	Merriwa	Toolbox and prestart
6:00am	11:00am	5.00	2	109	22	Driving	Merriwa to Dunedoo	Loaded travel
11:00am	11:30am	0.50	2	0	0	Paid Rest	Dunedoo	30 Minute rest break
11:30am	4:30pm	5.00	2	117	23	Driving	Dunedoo to Narromine	Loaded travel
4:30pm	11:59pm	7.48	2	0	0	Rest	Narromine	Minimum 7 hour rest break
12:00am	5:45am	5.75	3	0	0	Rest	Narromine	Minimum 7 hour rest break
5:45am	6:00am	0.25	3	0	0	Working	Narromine	Toolbox and prestart
6:00am	11:00am	5.00	3	112	22	Driving	Narromine to Parkes	Loaded travel
11:00am	11:30am	0.50	3	0	0	Paid Rest	Parkes	30 Minute rest break
11:30am	4:30pm	5.00	3	129	26	Driving	Parkes to West Wyalong	Loaded travel
4:30pm	11:59pm	7.48	3	0	0	Rest	West Wyalong	Minimum 7 hour rest break

Form A013 Schedule Report / Rex J Andrews Pty Ltd , Page 1
UNCONTROLLED COPY Downloaded from Asset Database by Warrick on 21/2/2022

Sydney
PO Box 271, Penrith NSW 2751
Ph: 02 4721 7633 Fx: 02 47217644
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Adelaide
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16 Yilen Close, Beresfield NSW 2322
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Trip Schedule

Schedule Details Avonleigh Solar Project
Transportation of a power transformer in a beamset

Sch No SCH02274
Date 21/02/2022 1:28:12 pm
Written By Warrick Andrews
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- No attempt should be made to make up for lost time on a schedule.
- Please modify all times according to your real start time.
- You must still fill in your Logbook, exactly as the hours you have worked.

Please work with the Scheduler who wrote this to make the schedule better for all.

Start	End	Hr	Day	Km	avg	Type	Location	Notes
12:00am	5:45am	5.75	4	0	0	Rest	West Wyalong	Minimum 7 hour rest break
5:45am	6:00am	0.25	4	0	0	Working	West Wyalong	Toolbox and prestart
6:00am	11:00am	5.00	4	125	25	Driving	West Wyalong to Grong Grong	Loaded travel
11:00am	11:30am	0.50	4	0	0	Paid Rest	Grong Grong	30 Minute rest break
11:30am	4:30pm	5.00	4	39	8	Driving	Grong Grong To Sandigo	Loaded travel
4:30pm	11:59pm	7.48	4	0	0	Rest		

8.0 Transport approvals required

Approvals will need to be sought from the following departments.

- NHVR
- TfNSW
- TMC
- NSW Police
- ARTC
- Local councils
- Power service providers
- Telstra

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9.0 Travel dates

TBC, Likely Q3 2022

10.0 Managing queued traffic behind the load.

During the journey the interaction with other road users will require management of queued traffic.

The protocol to provide queued traffic an opportunity to pass the load will be reliant on the rear pilot constantly monitoring the queue of traffic and relaying this information back to the convoy, the lead pilot / Police in conjunction with the driver will identify suitable areas that allow a safe passing point for the passing vehicles.

The lead escort / Police escort will also determine safe areas to halt the load to allow backed up vehicles to pass. Safe pull over areas can include turn off into Private Roads and/or other roads, pull over on the shoulder during over taking lanes, designated pull over/ rest stop areas or service stations, these areas will be a hardstand area, or an area wide enough for the escort to direct vehicles around the combination.

The load MUST pull over or slow to allow the backed-up vehicles to pass. Rear pilot will inform all other pilots and driver when there has been a lag from last pull over and if other cars have been following for a short distance, in this instance apply the passing protocol again, this will continue throughout the journey as required to ensure queued traffic do not experience excessive delays. The driver and pilots will also allow vehicles to pass at any opportunity that allows a safe area for this vehicle and its load to pull over safely and will.

11.0 Interacting with roadwork:

Roadworks to be checked prior to load departing. TfNSW/TMC will provide RJA with a list of conflicts. RJA will contact each of these conflicts and seek approval to pass through their workzone.

The lead pilot will make contact with the road crews to advise of the nature of the load, size, dimensions, to establish if the load is ok to enter the work zone.

In this instance the convoy will work with all reasonable instructions from the road crew to coordinate the safe passage of the load through the affected areas.

Pilots, Police and local traffic controllers will work together to facilitate the necessary actions required to travel through the work zone.

12.0 Emergency Contacts & plans.

1st Point of contact: RJA Operations 0247217633
2nd Point of contact: Rex J Andrews's supervisor 24 hrs. (Carl Andrews 0419219890)

STANDARD EMERGENCY NUMBERS IF REQUIRED

- Main Emergency number (000)
- NSW Traffic Operations (02 88821219)
- TMC Operations room (1800 679782) or (1300725886)
- Essential Energy (132080)
- Ausgrid (131388)
- GRS Towing 1300 550 600

- In the event of an emergency situation, such as breakdown, the load will be moved to the left-hand lane/shoulder to ensure minimal traffic impacts; police and pilots (Under the direction of the police) will manage traffic flow. In such instances the TMC should be promptly advised so that all necessary warnings can be made.
- Where a tow is required, the trailer will be unhooked from the prime mover and a standby truck be called. In such instances the TMC should be promptly advised so that all necessary warnings can be made.
- If police decide that the movement should be suspended as a result of time or potential traffic impacts the trailer with the load will be moved to a safe parking location and the TMC will be notified.
- In the event of bad weather, the driver is to notify the first point of contact before departing.
- If the road is blocked between the pickup location and drop off location, then the load is not to depart.
- Roadwork's to be checked with TfNSW 2 days prior to leaving and relayed to client with any potential problems.
- Route to be checked with Live Traffic and TMC 2 days before travel and on the night of travel before departure

13.0 Emergency stopping / pulling up for rest areas:

In the event of an emergency or scheduled rest break, establish positive communications with all pilots and driver and identify the next suitable area to halt the load, rear pilot should remain 200 metres behind the load to warn approaching traffic.

Ensure the load is as far to the left as possible so as to not impede any traffic from passing.

If the breakdown is major and requires a mechanic to attend contact the TMC and advise them of the disruption to traffic. Minor repairs that can be rectified in a short time do not require the TMC to be advised.

In the event that road works are encountered on route lead pilot is to call in on the nominated UHF channel and advise the local traffic control of the inbound load and await approval to enter the work zone.

Follow normal traffic management procedures as out lined in: SOP_030 Traffic Management Procedures.

The suggested rest areas are an indication only and dependant on the local traffic movements and occupancy of these rest areas it may not be possible to get off the road.

In this instance the lead pilot should travel ahead to identify the next suitable area.

This methodology can also be adopted to allow built up traffic to pass by slowing the load down and easing into break down areas to allow traffic to pass before continuing on.

Listed in the index are Emergency parking areas on route.

14.0 Transport plan & pinch points: Newcastle Port to Sandigo

This route took us via: Selwyn street, George Street, Industrial Drive, Maitland Road, U-Turn at Old Maitland Road, Maitland Road, Newcastle Inner City Bypass, Newcastle Road, Thomas Street, Newcastle Link Road, Hunter Expressway, New England Highway, Golden Highway, Boothenba Road,Troy Bridge Road, Bunglegumbie Road, Mitchell Highway, Manildra Street, Derribong Avenue, Algalah Street, Tomingley Road, Newell Highway, Thomas Street, Moulden Street, Back Trundle Road, Ross Road, Henry Parkes Way, Westlime Road, Hartigan Avenue, Newell Highway, Compton Road, Showground Road, Newell Highway, Sturt Highway, Sandigo Road, Muntz Road.

Distance: 828 Kilometres

GPS Link: https://goo.gl/maps/Vwd1QXaorcU3KMkX6

KEY	
CRITICAL	
CAUTION	
EMERGENCY PARKING	

KM index	Location	Section of road	Current clearance	Procedure	Notes
0.0	Mayfield	Mayfield #4 berth onto Selwyn Street GPS link: https://goo.gl/maps/afLwPYKuNdm	Length: 70.0 metres Width: 8.5 metres Height: N/A	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
0.4	Mayfield	Selwyn Street rail crossing GPS link: https://goo.gl/maps/AmohE54hKSz	Width: 9.0 metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
1.3	Mayfield	Selwyn Street onto Industrial Drive via George Street GPS link: https://goo.gl/maps/gXeHvBtCp4D2	Length: 70.0 metres Width: 9.0 metres Height: N/A	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
5.5	Mayfield West	Industrial Drive onto Maitland Road GPS link: https://goo.gl/maps/Kn49dhWG2qG2	Length: 50.0 metres Width: 9.0 metres Height: 5.8	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
8.0	Sandgate	Maitland Road U-turn procedure at Inner City Bypass intersection GPS link: https://goo.gl/maps/meQGKpGdRuvCTPgr7	Length: 80.0 metres Width: 10.0 metres Height: N/A	Travel to the incorrect side of the road.	Load is to cross to incorrect side (Southbound lanes) of Maitland Road at the intersection of the Inner-City Bypass. Then travel on the incorrect side (Southbound Lanes) of Maitland road through to Old Maitland Road. Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
8.4	Sandgate	Maitland Road onto Old Maitland Road GPS link: https://goo.gl/maps/RGSB79x8xbvj4wqe6	Length: 50.0 metres Width: 7.0 metres Height: N/A	Left hand turn	Load is to turn from the southbound lanes on Maitland Road into Old Maitland Road. Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.

KM index	Location	Section of road	Current clearance	Procedure	Notes
8.5	Sandgate	Old Maitland Road onto Maitland Road GPS link: https://goo.gl/maps/MHtTKSrgbtgGC4T37	Length: 50.0 metres Width: 7.0 metres Height: N/A	Reverse back onto Maitland Road	The load is to reverse back onto the Southbound lanes of Maitland Road, before travelling south on the correct side of Maitland Road towards the Inner-City bypass. Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
9.0	Sandgate	Maitland Road onto Newcastle Inner City bypass GPS link: https://goo.gl/maps/WR97pBUPiG7ULd757	Length: 80.0 metres Width: 10.0 metres Height: N/A	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
9.0 to 14.0	Sandgate to Jesmond	Newcastle Inner City bypass GPS link: https://goo.gl/maps/ieyMJatCTV5NHUHK7	HEIGHT: 5.45 metres	Travel directly ahead	The Newcastle inner city bypass has 4 structures that the load will travel under. The lowest of these is Janet street which has a clearance of 5.45 metres in the left lane, and 5.7 metres in the right lane.
14.0	Jesmond	Newcastle Inner City bypass onto Newcastle Road GPS link: https://goo.gl/maps/1MUmyjNyydDakRZx6	Length: 80.0 metres Width: 10.0 metres Height: N/A	Right hand turn at the roundabout before taking the second exit onto Newcastle Road	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
15.5	Wallsend	Newcastle Road onto the Thomas Street GPS link: https://goo.gl/maps/1DCZxPpZT41RFd8w7	Length: 60.0 metres Width: 7.0 metres Height: N/A	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
16.5	Wallsend	Thomas Street onto Newcastle Link Road GPS link: https://goo.gl/maps/J6kSa2e99L5gMxbD8	Length: 100.0 metres Width: 12.0 metres Height: N/A	Travel directly ahead	No problems with this section of road.
19.0	Wallsend	Newcastle Link Road at Transfield Avenue GPS link: https://goo.gl/maps/noHnEkQTa641xHT49	Length: 60.0 metres Width: 9.0 metres Height: N/A	Travel directly ahead through the roundabout	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
21.0	Cameron Park	Newcastle Link Road at Minmi Road GPS link: https://goo.gl/maps/bPWYt3pzVRyWd7QeA	Length: 60.0 metres Width: 9.0 metres Height: N/A	Travel directly ahead through the roundabout	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.

KM index	Location	Section of road	Current clearance	Procedure	Notes
23.0	Cameron Park	Newcastle Link Road onto the Hunter Expressway GPS link: https://goo.gl/maps/WNCELytZxc2hV7YR7	Length: 80.0 metres Width: 7.0 metres Height: N/A	Travel directly ahead	No problems with this section of road.
64.0	Branxton	The Hunter Expressway onto The New England Highway https://goo.gl/maps/7rauNuxzqjq	Length: 100.0 Mtrs Width: 12.0 Mtrs	Travel directly ahead	No problems with this section of road.
72.0	Whittingham	The New England Highway onto the Golden Highway https://goo.gl/maps/nAnfkYfeUn42	Length: 70.0 Mtrs Width: 8.0 Mtrs	Left Hand turn	The NSW Government is currently upgrading this intersection. At this stage the data that is available for the upgrades shows that the section of road that we would need to access does not change considerably. However, it is recommended that you monitor the progress of the upgrades, and that any changes are thoroughly looked at.
72.1	Whittingham	Golden Highway https://goo.gl/maps/R86RFuPnmFU2	115.0 x 9.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
73.0	Whittingham	Golden Highway over rail bridge https://goo.gl/maps/5NwDQofandvvMKfY9	Length: 90 metres Width: 9.0 Metres	Travel directly ahead in the centre of the road.	Approval from Rail company required to cross this structure. Travel over this structure may have specific conditions.
82.3	Mount Thorley	Golden Highway over rail bridge https://goo.gl/maps/qTxSbkxPu87L5hx4A	Length: 90 metres Width: 9.0 Metres	Travel directly ahead in the centre of the road.	Approval from Rail company required to cross this structure. Travel over this structure may have specific conditions.
82.4	Whittingham	Golden Highway intersection with the Putty Road https://goo.gl/maps/7hQdEmK1EgE2	Length: 65 metres Width: 6.0 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
82.5	Mount Thorley	Golden Highway https://goo.gl/maps/zGvdupDuixx	100.0 x 10.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
85.6	Mount Thorley	Golden Highway over rail bridge https://goo.gl/maps/ipGU4USXmWZ8GkJs6	Length: 90 metres Width: 9.0 Metres Height: 5.2 metres	Travel directly ahead in the centre of the road.	Approval from Rail company required to cross this structure. Travel over this structure may have specific conditions.
85.8	Mount Thorley	Golden Highway intersection with the Putty Road https://goo.gl/maps/QS9quvSyHYWaFHoX9	Length: 45 metres Width: 6.0 Metres	Right hand turn	Loads to turn onto the incorrect side of the Golden Highway, and travel on the incorrect side for 300 metres. Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.

KM index	Location	Section of road	Current clearance	Procedure	Notes
103.0	Warkworth	Golden Highway https://goo.gl/maps/Y6V6EXaCwxq	100.0 x 8.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
112.0	Jerrys Plains	Golden Highway through Jerrys Plains village https://goo.gl/maps/WgSCRsJ9ZGt	Length: 60 metres Width: 6.0 Metres	Left hand than right hand turn	No problems with this section of road.
131.0	Ogilvy	Golden Highway https://goo.gl/maps/58Tj9ojs7CC2	6% gradient	Travel directly ahead	This section of road has a steep mountain range that will require additional pull trucks to assists loads that exceed 80T gross weight. Additionally, the NSW Government is currently upgrading this section of road. It is recommended that you monitor the progress of the upgrades, and that any changes are thoroughly looked at.
137.0	Denman	Golden Highway at Denman Road https://goo.gl/maps/sf4PNnycxB32	Length: 55 metres Width: 6.0 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
138.0	Denman	Golden Highway over Denman Bridge GPS link: https://goo.gl/maps/UToXyFe3QKu	5.7 Metres height clearance 6.9 Metres width clearance	Travel directly ahead in the centre of the lane	A width of 6.5 metres and a height of 5.5 metres should not be exceeded of this structure. Load to be lowered to 5.5 metres before travelling over this structure.
158.0	Sandy Hollow	Golden highway https://goo.gl/maps/2THBuV165xx	50.0 x 4.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
159.0	Sandy Hollow	Golden Highway under safety Cam https://goo.gl/maps/b7t9zH2ankJcvWpT6	Height: Left: 6.3 metres	Travel directly ahead on the correct side	No problems with this section of road.
170.0	Gungal	Golden highway https://goo.gl/maps/WDoL2LfeCoP2	70.0 x 6.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
187.0	Merriwa	Golden Highway under safety Cam https://goo.gl/maps/D92rzQ8vnUcYsqj56	Height: Right: 6.4 metres	Travel directly ahead on the correct side	No problems with this section of road.
197.0	Merriwa	Golden highway https://goo.gl/maps/NqrWzTsRmnt	100.0 x 5.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
247.0	Cassilis	Golden highway https://goo.gl/maps/vs6YMT6TxCA2	200.0 x 8.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
273.0	Leadville	Golden highway https://goo.gl/maps/ujxMGukhopeFWRhb8	200.0 x 8.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
306.0	Dunedoo	Golden Highway over rail crossing https://goo.gl/maps/wsyNKfcoAij3SosY9	Length: 90 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.

KM index	Location	Section of road	Current clearance	Procedure	Notes
306.1	Dunedoo	Golden Highway intersection with Wargundy Street https://goo.gl/maps/WzACUHey3jYadj1K7	Length: 60 metres Width: 6.0 Metres	Right hand bend	No problems with this section of road.
357.0	Ballimore	Golden Highway https://goo.gl/maps/RuKKrfHarw1Mjy5E9	150.0 x 8.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
365.0	Ballimore	Golden Highway over rail crossing https://goo.gl/maps/yb15Kz6R2r3E69fj6	Length: 90 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
372.0	Dubbo	Golden Highway onto Boothenba Road https://goo.gl/maps/TJLi5W4ir11ejgtb6	Length: 50 metres Width: 6.5 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
384.0	Dubbo	Boothenba Road over rail crossing https://goo.gl/maps/72ageimPLqPWYY7M9	Length: 90 metres Width: 6.5 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
384.1	Dubbo	Boothenba Road onto Troy Bridge Road https://goo.gl/maps/2u5uRf2BvKxseoFm9	Length: 90 metres Width: 6.5 Metres	Travel directly ahead	No problems with this section of road.
387.0	Dubbo	Troy Bridge Road onto Bunglegumbie road https://goo.gl/maps/6Uke9jwPypNYVPux5	Length: 90 metres Width: 6.5 Metres	Travel directly ahead	No problems with this section of road.
403.0	Dubbo	Bunglegumbie road onto the Mitchell Highway https://goo.gl/maps/jCWqmaQsd3fChp837	Length: 50 metres Width: 6.5 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
423.0	Narromine	Mitchell Highway onto Manildra Street https://goo.gl/maps/hFG648tcSMUHxJ8h6	Length: 40 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
423.1	Narromine	Manildra Street over rail crossing https://goo.gl/maps/4s2HYJJfJQ5pGbKg7	Length: 60 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
423.2	Narromine	Manildra Street onto Derribong Avenue https://goo.gl/maps/776aPaxgsFTWi6qL6	Length: 40 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
423.5	Narromine	Derribong Avenue onto Algalah Street https://goo.gl/maps/9s8cb8G4T2c75t1V8	Length: 40 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
425.0	Narromine	Algalah Street onto Tomingley Road https://goo.gl/maps/EWfZYo3Xos6T3J8A8	Length: 60 metres Width: 7.0 Metres	Travel directly ahead	No problems with this section of road.
460.0	Tomingley	Tomingley Road onto the Newell Highway https://goo.gl/maps/NJtXmHCFHxaiMaq39	Length: 60 metres Width: 7.0 Metres	Travel directly ahead	No problems with this section of road.

KM index	Location	Section of road	Current clearance	Procedure	Notes
461.0	Tomingley	Newell Highway https://goo.gl/maps/ADMke5At2A1Uy1z4A	200.0 x 15.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
462.0	Tomingley	Newell Highway under safety Cam https://goo.gl/maps/9Vqu9xXxRwhHt4Uk6	Height: Right: 6.8 metres	Travel directly ahead on the correct side	No problems with this section of road.
463.0	South Tomingley	Newell Highway https://goo.gl/maps/1q8f6HJ2zsZSxup66	150.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
475.0	Peak Hill	Newell Highway https://goo.gl/maps/orKTBB8wobK6exsc6	90.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
476.0	Peak Hill	Newell Highway under safety Cam https://goo.gl/maps/sAbh8zwZzZVMriD2A	Height: Right: 6.3 metres	Travel directly ahead on the correct side	No problems with this section of road.
499.0	Alectown	Newell Highway https://goo.gl/maps/GMGbEJHAEkeWuRyz5	90.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
525.0	Parkes	Newell Highway onto Thomas Street https://goo.gl/maps/fSnFVWPr78RePSTz9	Length: 55 metres Width: 6.5 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
527.0	Parkes	Thomas Street onto Moulden Street https://goo.gl/maps/HpYrcwcx8BHrUmfc8	Length: 55 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
527.4	Parkes	Moulden Street onto Back Trundle Road https://goo.gl/maps/1JA2hh5EMZ3G3QfS9	Length: 55 metres Width: 6.5 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
527.5	Parkes	Back Trundle Road onto Ross Road https://goo.gl/maps/wTLkjNyCVjLWBSuGA	Length: 55 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
527.8	Parkes	Ross Road onto Henry Parkes Way https://goo.gl/maps/UKvs2QekwwFuP6oS8	Length: 55 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
528.0	Parkes	Henry Parkes Way onto Westlime Road https://goo.gl/maps/Uk2nuLS7xvfnv5dt6	Length: 55 metres Width: 6.5 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
529.0	Parkes	Westlime Road onto Hartigan Ave https://goo.gl/maps/XtKgPrWcZHY3im65A	Length: 55 metres Width: 6.5 Metres	Travel directly ahead	No problems with this section of road.
530.0	Parkes	Hartigan Avenue under traffic signal https://goo.gl/maps/sQxVxzZivbDX7E3j6	Height: Left: 5.5 metres	Travel around the traffic signal on the incorrect side of the road.	Traffic signal is too low. Pass on right hand side.

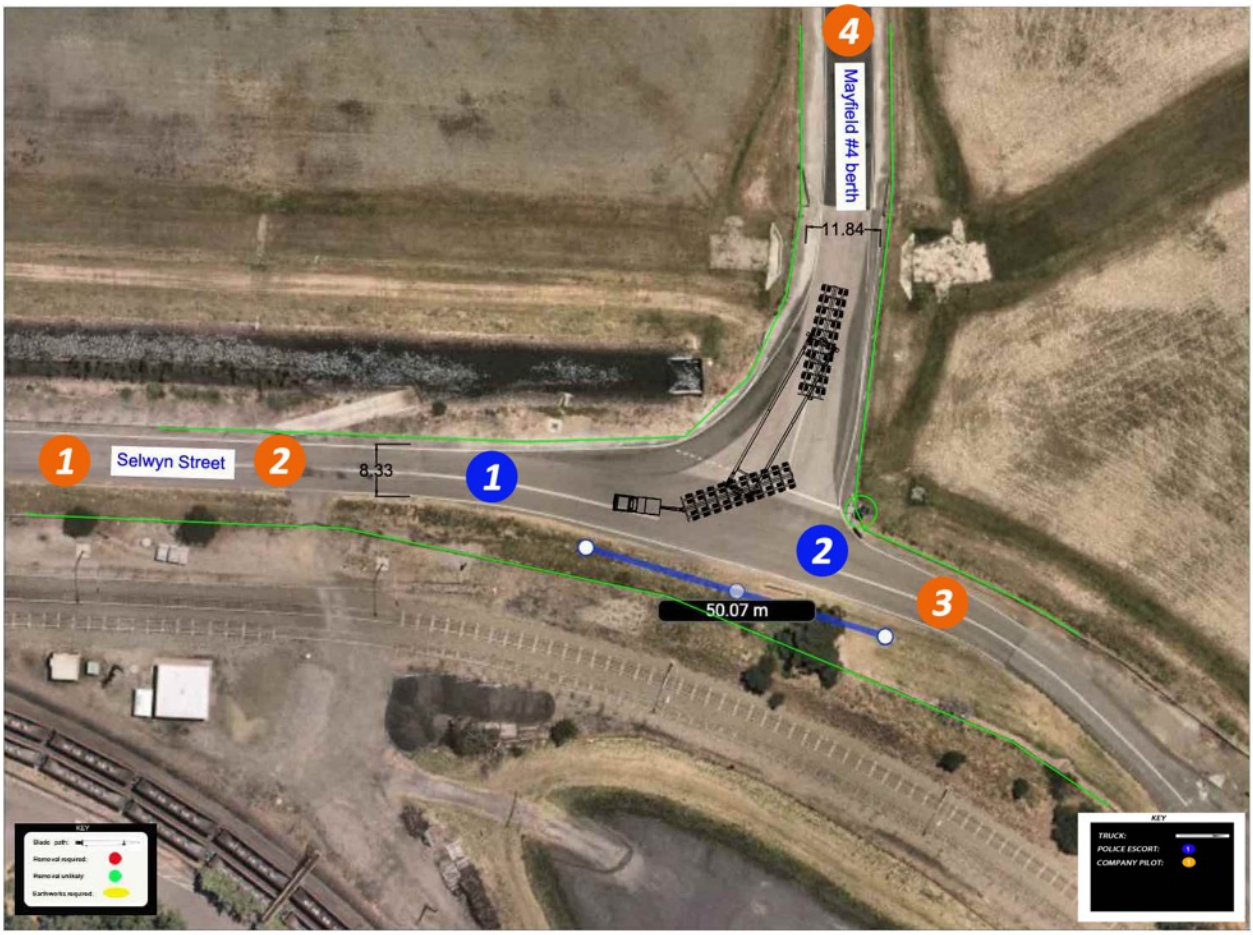
KM index	Location	Section of road	Current clearance	Procedure	Notes
532.0	Parkes	Hartigan Ave onto the Newell Highway https://goo.gl/maps/y3rabftt4HGreX9e6	Length: 55 metres Width: 6.5 Metres	Travel directly ahead	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
533.0	Parkes	Newell Highway over rail crossing https://goo.gl/maps/7tSoLfFManXyKV3T9	Length: 60 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
535.0	Parkes	Newell Highway over rail crossing https://goo.gl/maps/Kxa3shUCMiuKe2sX7	Length: 60 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
542.0	Tichborne	Newell Highway over rail crossing https://goo.gl/maps/gxYUZLLe3jsCEJgD7	Length: 60 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
549.0	Daroobalgie rest area	Newell Highway https://goo.gl/maps/swec16PWh1N8ZbUR7	200.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
563.0	Forbes	Newell Highway intersection with Dowling Street https://goo.gl/maps/DqkvxH4qtWnXvLJ26	Length: 45 metres Width: 6.0 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
563.2	Forbes	Newell Highway https://goo.gl/maps/Hsmjs9pqvZ5UYFAH7	100.0 x 6.5 metres	Parking Bay	Suitable parking for Fatigue breaks.
568.0	Forbes	Newell Highway under safety Cam https://goo.gl/maps/hUdv6YJunC9yfoxF7	Height: Right: 6.4 metres	Travel directly ahead on the correct side	No problems with this section of road.
631.0	Marsden	Newell Highway under safety Cam https://goo.gl/maps/fRpjbRoXfup29Swx6	Height: Right: 6.9 metres	Travel directly ahead on the correct side	No problems with this section of road.
632.0	Marsden rest area	Newell Highway https://goo.gl/maps/AfAfr2wuNTjQMdKT8	200.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
662.0	Wyalong	Newell Highway under safety Cam https://goo.gl/maps/sudP4qYXPWbDB6sL6	Height: Centre: 6.2 metres	Travel directly ahead on the correct side	No problems with this section of road.
664.0	West Wyalong	Newell Highway onto Compton Road https://goo.gl/maps/PeM4uWq5hLiyZiPd8	Length: 55 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
666.5	West Wyalong	Compton Road onto Showground Road https://goo.gl/maps/hts5qARMMWZcvW7R7	Length: 50 metres Width: 6.5 Metres	left hand turn	No problems with this section of road.
667.0	West Wyalong	Compton Road over rail crossing https://goo.gl/maps/KQwsqDkEDASMpB9r8	Length: 50 metres Width: 6.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.

KM index	Location	Section of road	Current clearance	Procedure	Notes
668.5	West Wyalong	Showground Road https://goo.gl/maps/C8GevkquVtpkHjkFA	150.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
669.0	West Wyalong	Showground Road onto the Newell Highway https://goo.gl/maps/yAyBdrZcocEeTBnz6	Length: 50 metres Width: 6.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
687.0	Allena	Newell Highway over rail crossing https://goo.gl/maps/GMHsd5ynEFwzjmnXA	Length: 50 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
715.0	Mirrool	Newell Highway over rail crossing https://goo.gl/maps/kFkwMBL9nfKgL954A	Length: 50 metres Width: 6.5 Metres	Travel directly ahead	Loads to travel over the crossing in the center of the road. Approval required crossing this line, likely cross with caution.
750.0	Ardlethan rest area	Newell Highway https://goo.gl/maps/Na3rzBt25sMnsBya6	200.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
789.0	Grong Grong rest area	Newell Highway https://goo.gl/maps/vBTyD3zJVMcbn6wy9	200.0 x 7.0 metres	Parking Bay	Suitable parking for Fatigue breaks.
802.0	Narrandera	Newell Highway over rail bridge https://goo.gl/maps/YBWuYYyVoZfSUTJ37	Length: 50 metres Width: 7.0 Metres	Travel directly ahead	Loads to travel over the bridge in the center of the road.
803.0	Narrandera	Newell Highway at Whitton Street https://goo.gl/maps/EXcuuBeMsXdhVDtm8	Length: 50 metres Width: 7.5 Metres	Left hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
803.0 to 804.0	Narrandera	Newell Highway (Cadell St) https://goo.gl/maps/Z3ptasM9sGGtaB5A8	Length: 50 metres Width: 7.5 Metres	Travel directly ahead	Trees to be trimmed
805.0	Narrandera	Newell Highway onto Sturt Highway https://goo.gl/maps/uFiCyhp9uF147Wie8	Length: 80 metres Width: 7.5 Metres	Left hand turn	No problems with this section of road.
825.0	Sandigo	Sturt Highway onto Sandigo Road https://goo.gl/maps/c3ZDZEj78aMwmqEh8	Length: 60 metres Width: 7.0 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.
825.0 to 826.0	Sandigo	Sandigo Road https://goo.gl/maps/DMGEho8QouQxWxiH7	Width: 6.5 Metres	Travel directly ahead	Sandigo Road has been recently sealed and is in good condition.
826.0	Sandigo	Sandigo Road into Muntz Road https://goo.gl/maps/WErjz7kPjHWLPRsP6	Length: 40 metres Width: 6.0 Metres	Right hand turn	Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.

KM index	Location	Section of road	Current clearance	Procedure	Notes
826.0 to 8238.0	Sandigo	Muntz Road https://goo.gl/maps/tTfFuMmCxNXziRb56	Width: 6.5 Metres	Travel directly ahead	This road is gravel and in average condition. Load to travel at no more than 10 km's per hour for this section of road.
828.0	Sandigo	Muntz Road into Avonleigh Solar farm https://goo.gl/maps/R3T3az3oQiSRg6GV7	Length: 40 metres Width: 6.0 Metres	Right hand turn	Site to make a suitable entrance for the swept path of this load. Spotter to assist at this pinchpoint. Escorts to control traffic as per plan below for this section of road.

0.0 Km's: Mayfield #4 berth onto Selwyn Street at Mayfield.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/afLwPYKuNdm

COMPANY PILOT 1: Warn all eastbound traffic on Selwyn Street.

COMPANY PILOT 2: Warn all eastbound traffic on Selwyn Street.

COMPANY PILOT 3: Warn all westbound traffic on Selwyn Street.

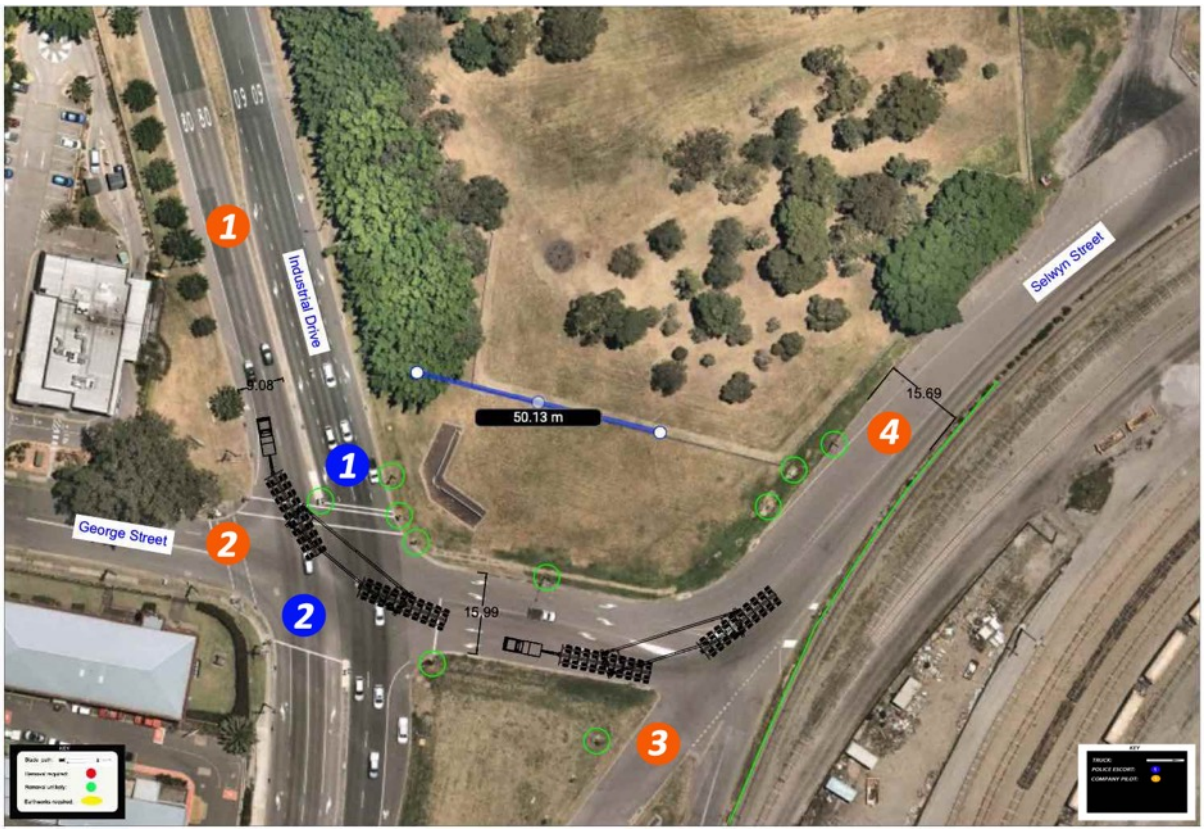
COMPANY PILOT 4: Stay 50 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right from the port access road onto Selwyn Street.

ROAD MODIFICATIONS: Nil.

1.3 Km's: Selwyn Street onto Industrial Drive at Mayfield.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/gXeHvBtCp4D2

COMPANY PILOT 1: Warn all southbound traffic on Industrial Drive.

COMPANY PILOT 2: Warn all eastbound traffic on George Street.

COMPANY PILOT 3: Warn all eastbound traffic on Selwyn Street.

COMPANY PILOT 4: Stay 50 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right from Selwyn Street onto Industrial Drive via George Street.

ROAD MODIFICATIONS: Nil.

5.5 Km's: Industrial Drive onto Maitland Road at Mayfield West.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/Kn49dhWG2qG2

COMPANY PILOT 1: Warn all southbound traffic on Maitland Road.

COMPANY PILOT 2: Warn all southbound traffic on Maitland Road.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right from Industrial Drive onto Maitland Road.

ROAD MODIFICATIONS: Nil.

8.0 Km's: Maitland Road crossover at the intersection of the Newcastle Inner City bypass at Sandgate.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/meQGKpGdRuvCTPgr7

COMPANY PILOT 1: Warn all southbound traffic on Maitland Road.

COMPANY PILOT 2: Warn all southbound traffic on Maitland Road.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

COMPANY PILOT 4: Stay 50 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load is to cross to incorrect side (Southbound lanes) of Maitland Road at the intersection of the Inner-City Bypass. Then travel on the incorrect side (Southbound Lanes) of Maitland Road through to Old Maitland Road.

ROAD MODIFICATIONS: Nil.

8.4 Km's: Maitland Road onto Old Maitland Road at Sandgate.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/RGSB79x8xbvj4wqe6

COMPANY PILOT 1: Warn all traffic in Old Maitland Road.

COMPANY PILOT 2: Warn all southbound traffic on Maitland Road.

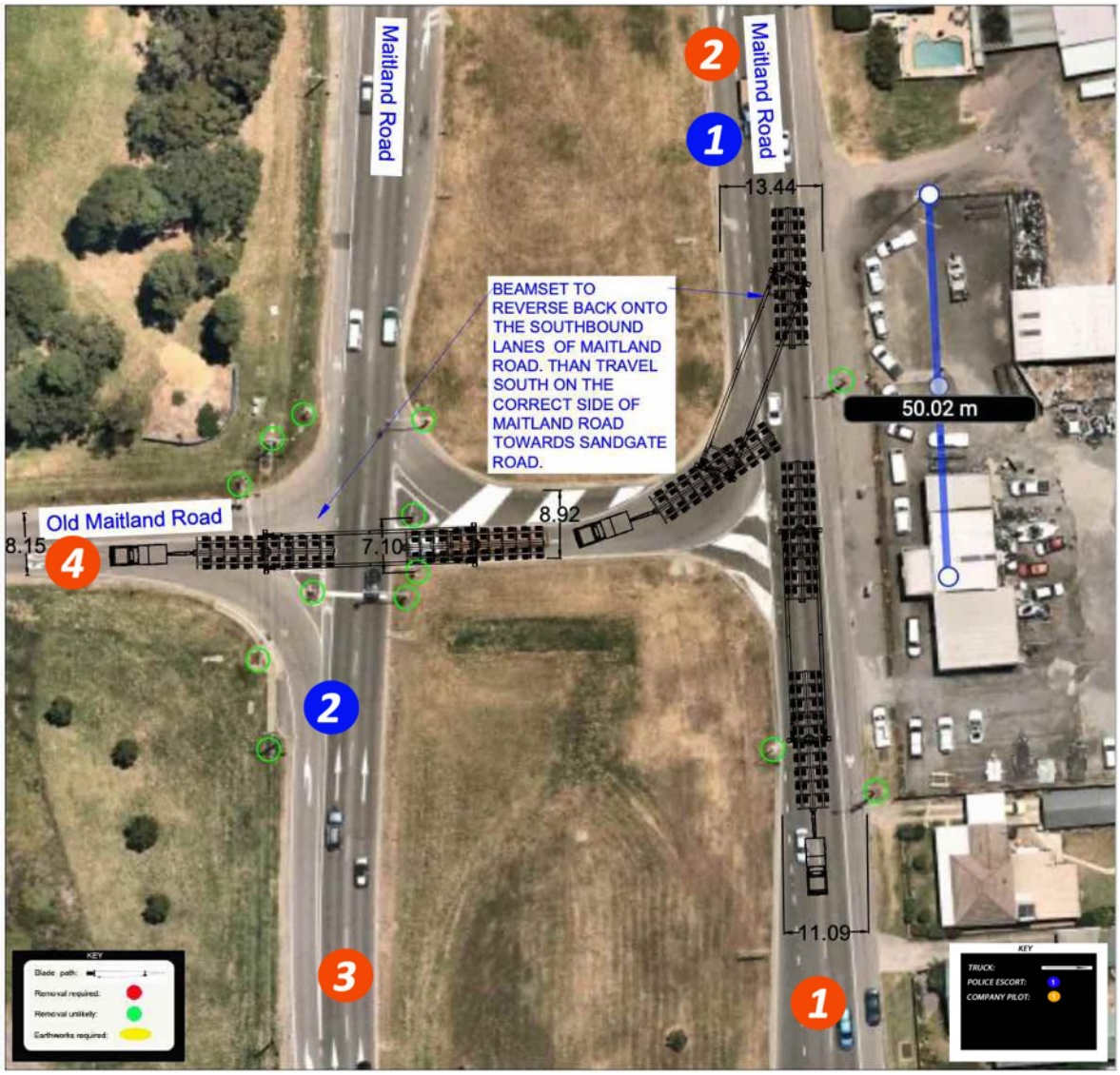
COMPANY PILOT 3: Warn all northbound traffic on Maitland Road.

COMPANY PILOT 4: Stay 50 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load is to turn from the southbound lanes on Maitland Road into Old Maitland Road.

ROAD MODIFICATIONS: Nil.

8.5 Km's: Old Maitland Road onto Maitland Road at Sandgate.
Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/MHtTKSrgbtgGC4T37

COMPANY PILOT 1: Warn all northbound traffic on Maitland Road.

COMPANY PILOT 2: Warn all southbound traffic on Maitland Road.

COMPANY PILOT 3: Warn all northbound traffic on Maitland Road.

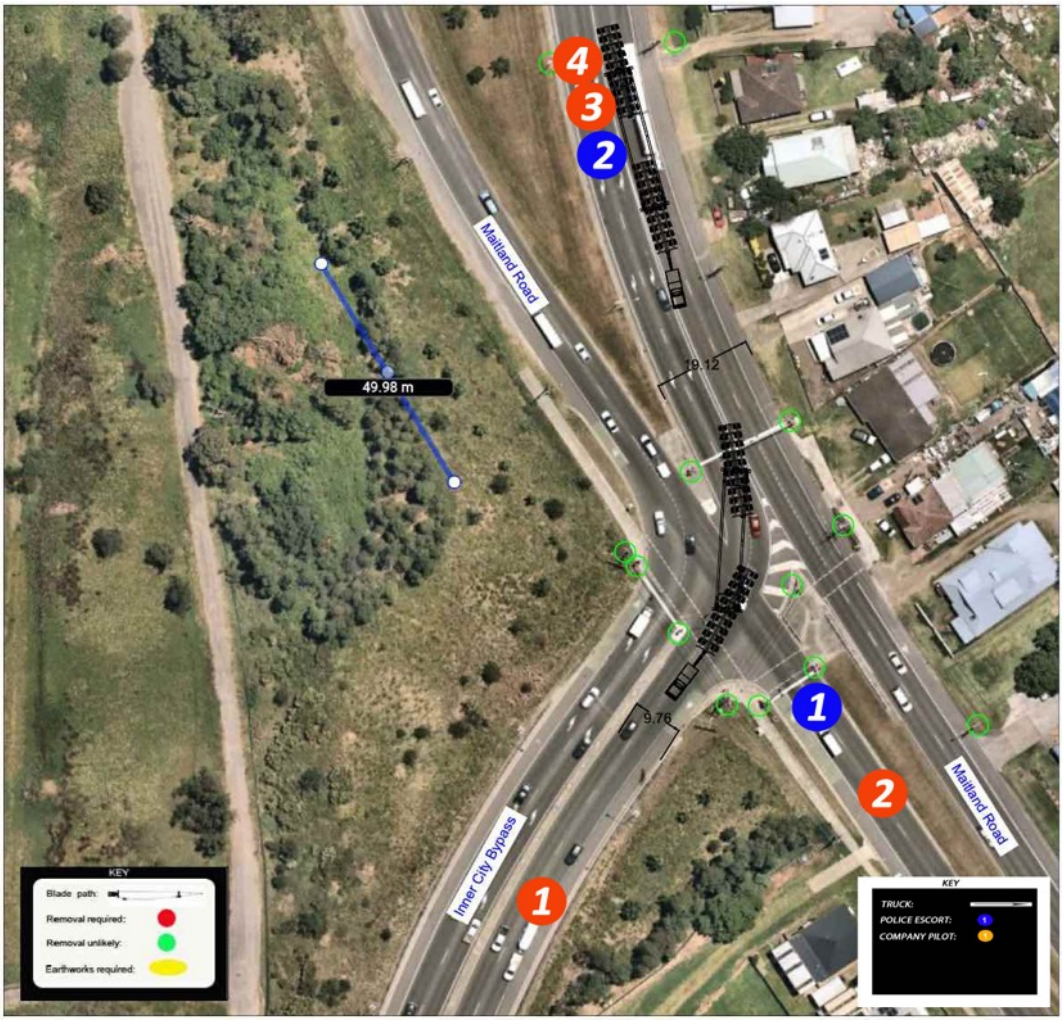
COMPANY PILOT 4: Warn all traffic in Old Maitland Road.

PINCHPOINT PROCEDURE: The load is to reverse back onto the Southbound lanes of Maitland Road, before travelling south on the correct side of Maitland Road towards the Inner-City bypass.

ROAD MODIFICATIONS: Nil.

9.0 Km's: Maitland Road onto Newcastle Inner City Bypass at Sandgate.

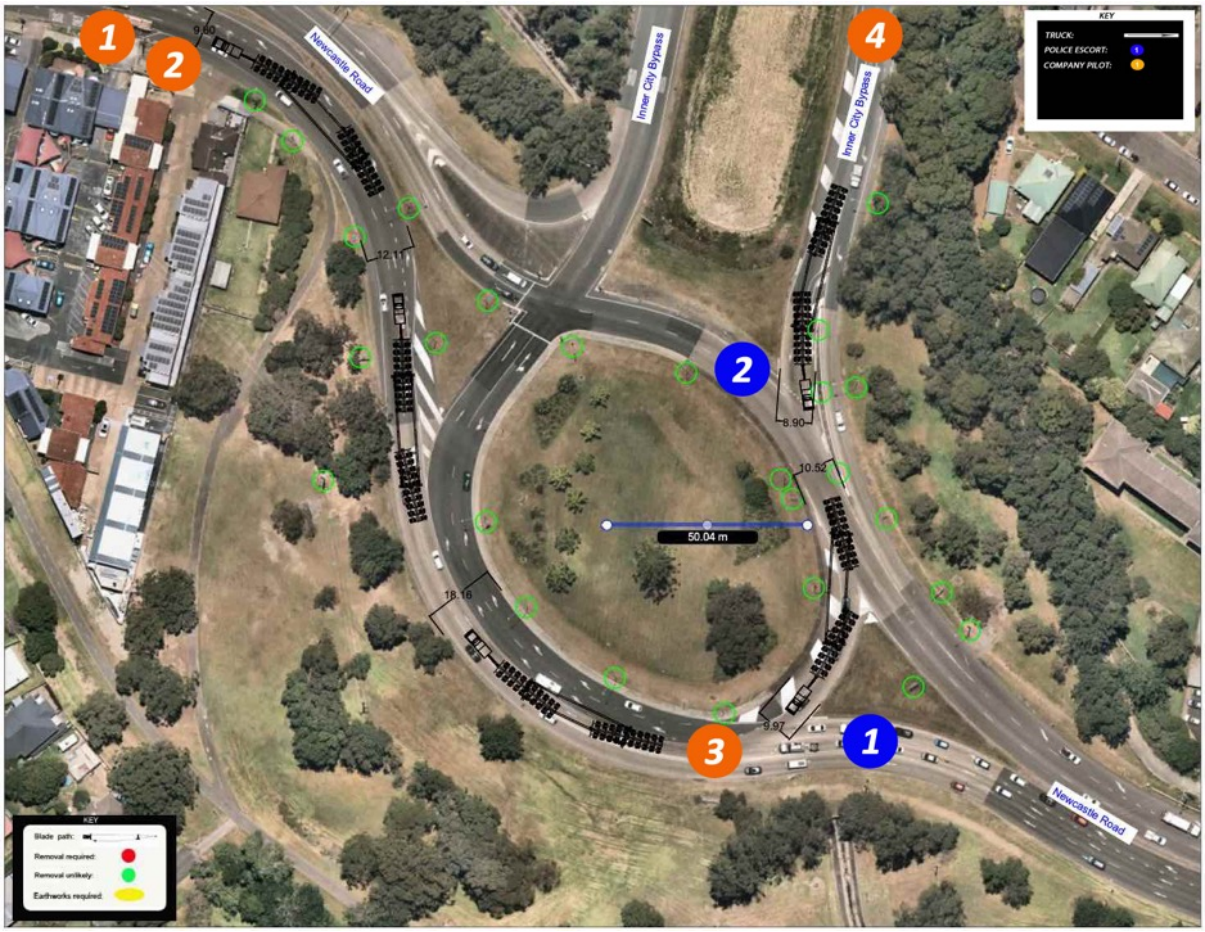
Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/WR97pBUPiG7ULd757
COMPANY PILOT 1: Warn all Northbound traffic on Newcastle Inner City Bypass.
COMPANY PILOT 2: Warn all northbound traffic on Maitland Road.
COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.
COMPANY PILOT 4: Stay 50 metres behind the load and warn all traffic.
PINCHPOINT PROCEDURE: Load to turn right from Maitland Road onto Sandgate Road.
ROAD MODIFICATIONS: Nil.

14.0 Km's: Newcastle Inner City Bypass onto Newcastle Road at Jesmond.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/1MUmyjNyydDakRZx6

COMPANY PILOT 1: Warn all eastbound traffic on Newcastle Road.

COMPANY PILOT 2: Warn all eastbound traffic on Newcastle Road.

COMPANY PILOT 3: Warn all westbound traffic on Newcastle Road.

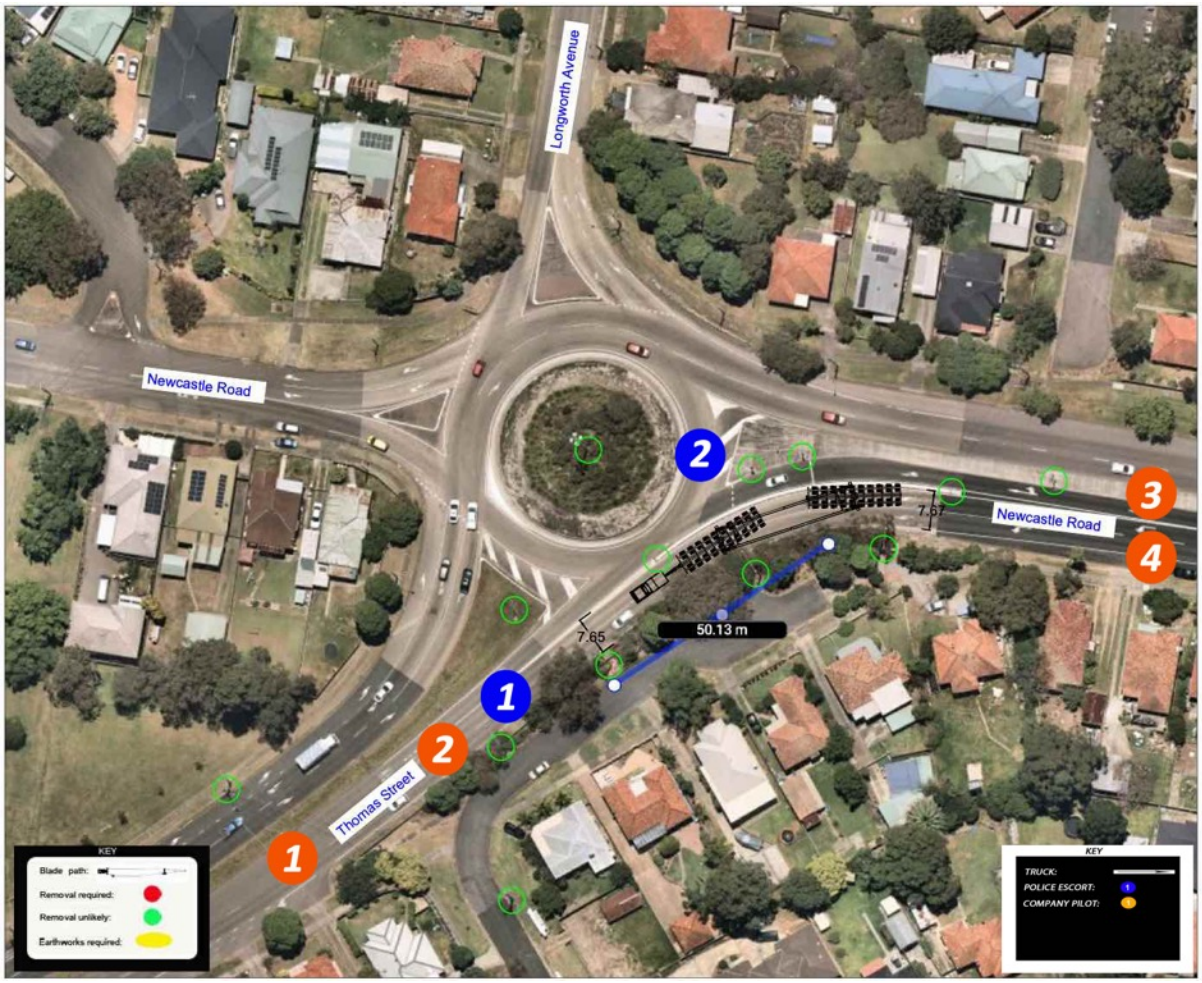
COMPANY PILOT 4: Stay 50 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Right hand turn at the roundabout before taking the second exit onto Newcastle Road

ROAD MODIFICATIONS: Nil.

15.5 Km's: Newcastle Road onto Thomas Street at Wallsend.

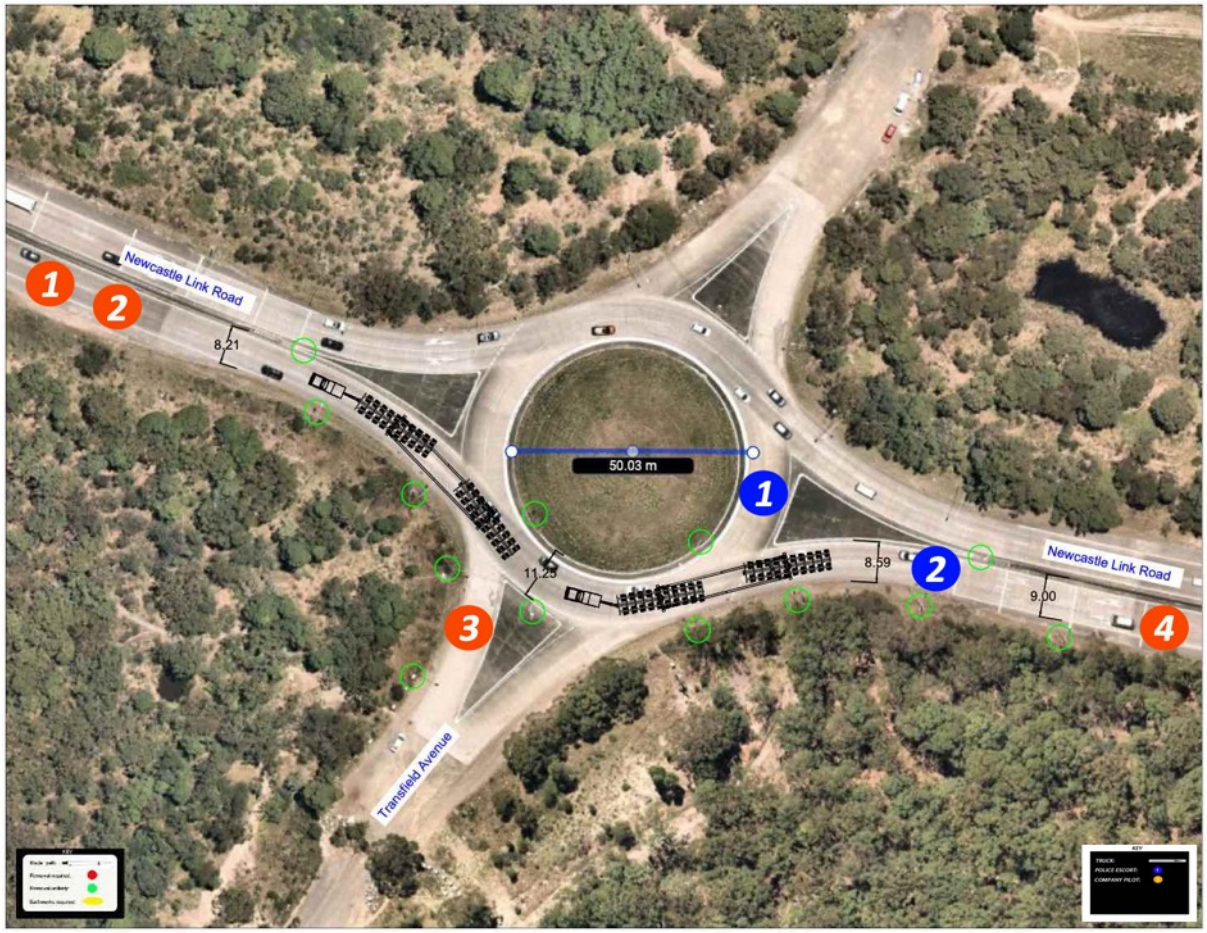
Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/1DCZxPpZT41RFd8w7
COMPANY PILOT 1: Warn all eastbound traffic on Newcastle Link Road.
COMPANY PILOT 2: Warn all eastbound traffic on Newcastle Link Road.
COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.
COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.
PINCHPOINT PROCEDURE: Left hand bend from Newcastle Road onto Thomas Street.
ROAD MODIFICATIONS: Nil.

19.0 Km's: Newcastle Link Road intersection of Transfield Avenue at Wallsend.

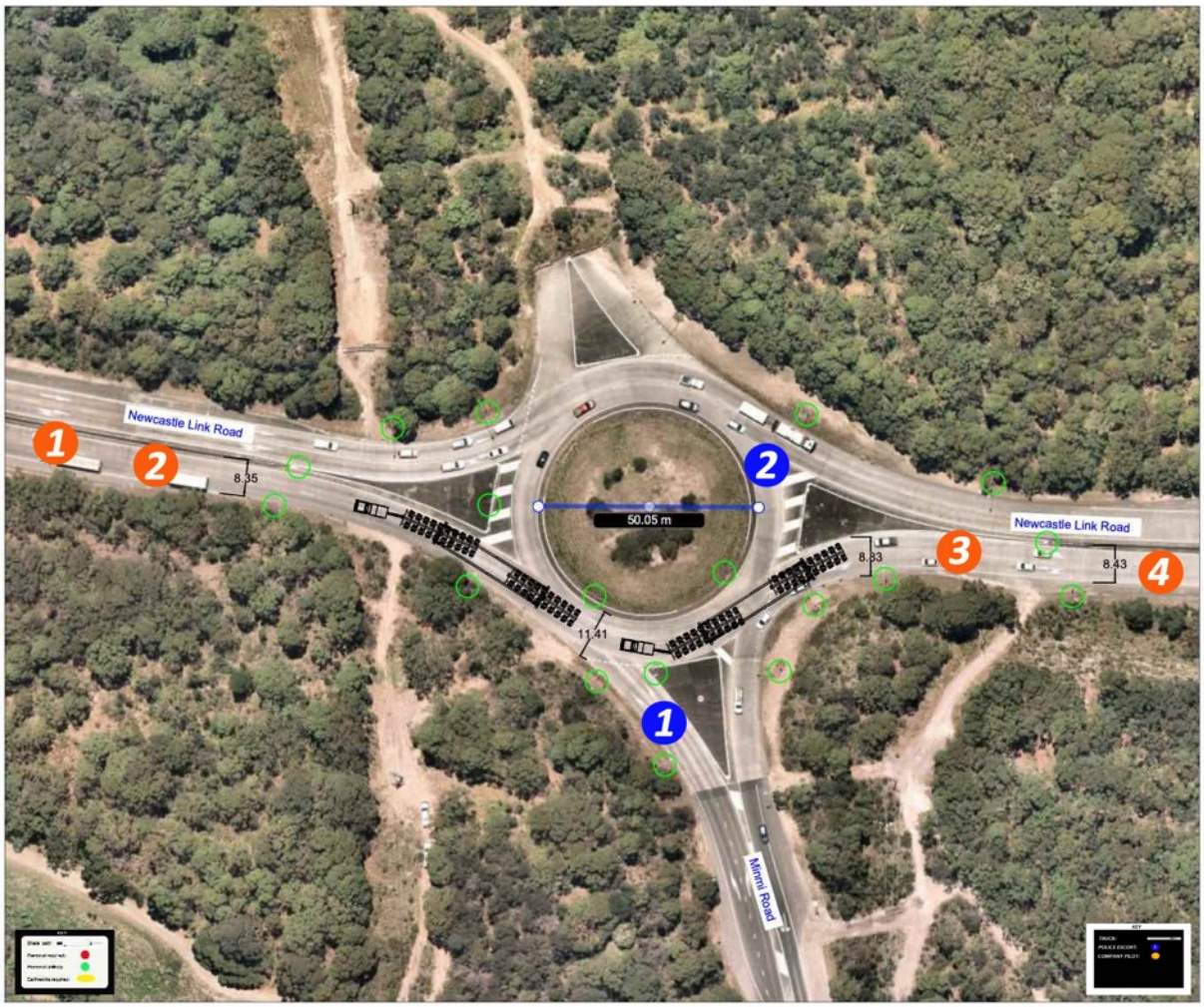
Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/noHnEkQTa641xHT49
COMPANY PILOT 1: Warn all eastbound traffic on Newcastle Link Road.
COMPANY PILOT 2: Warn all eastbound traffic on Newcastle Link Road.
COMPANY PILOT 3: Warn all traffic in Transfield avenue.
COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.
PINCHPOINT PROCEDURE: Travel directly ahead through the roundabout.
ROAD MODIFICATIONS: Nil.

21.0 Km's: Newcastle Link Road intersection of Minmi Road at Cameron Park.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/mXYajNbe93622tcLA
COMPANY PILOT 1: Warn all eastbound traffic on Newcastle Link Road.
COMPANY PILOT 2: Warn all eastbound traffic on Newcastle Link Road.
COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.
COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.
PINCHPOINT PROCEDURE: Travel directly ahead through the roundabout.
ROAD MODIFICATIONS: Nil.

72.0 Km's: New England Highway onto the Golden Highway at Whttingham.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/nAnfkYfeUn42

COMPANY PILOT 1: Warn all eastbound traffic on the New England Highway.

COMPANY PILOT 2: Warn all eastbound traffic on the Golden Highway.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn left from the New England Highway onto the Golden Highway on the correct side of the road.

ROAD MODIFICATIONS: Nil.

82.4 Km's: Golden Highway at Putty Road intersection at Mount Thorley.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/7hQdEmK1EgE2

COMPANY PILOT 1: Warn all eastbound traffic on the Golden Highway.

COMPANY PILOT 2: Warn all eastbound traffic on the Golden Highway.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

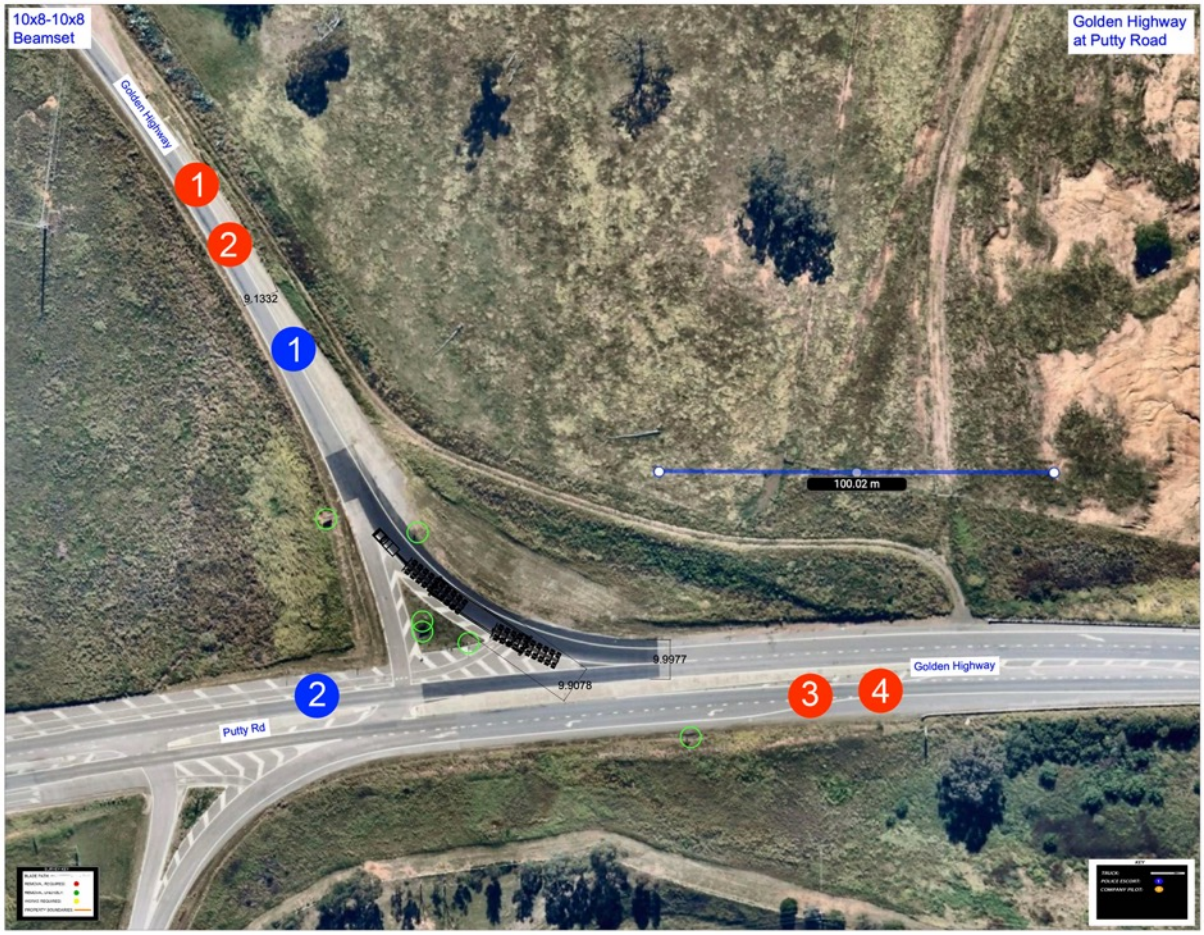
COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn left from the Golden Highway onto the Golden Highway on the correct side of the road.

ROAD MODIFICATIONS: Nil.

85.8 Km's: Golden Highway at Putty Road intersection at Mount Thorley.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/QS9quvSyHYWaFHoX9

COMPANY PILOT 1: Warn all eastbound traffic on the Golden Highway.

COMPANY PILOT 2: Warn all eastbound traffic on the Golden Highway.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

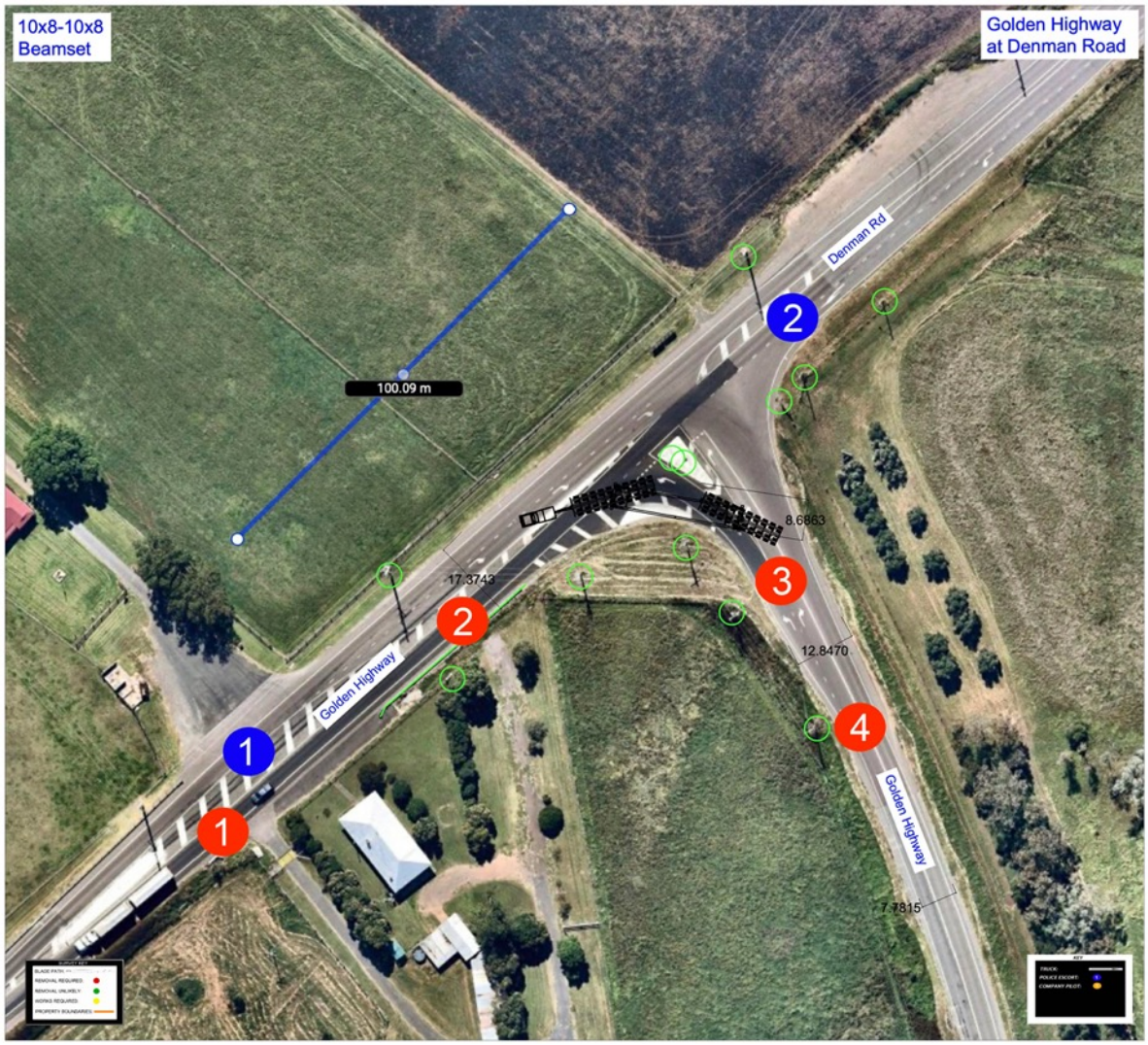
COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right onto the incorrect side of the Golden Highway. Pilots and police will need to travel 200 metres west of this intersection and warn/hold all oncoming traffic.

ROAD MODIFICATIONS: Nil.

137.0 Km's: Golden Highway at Denman Road intersection at Denman.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/sf4PNnycxB32

COMPANY PILOT 1: Warn all eastbound traffic on the Golden Highway.

COMPANY PILOT 2: Warn all eastbound traffic on the Golden Highway.

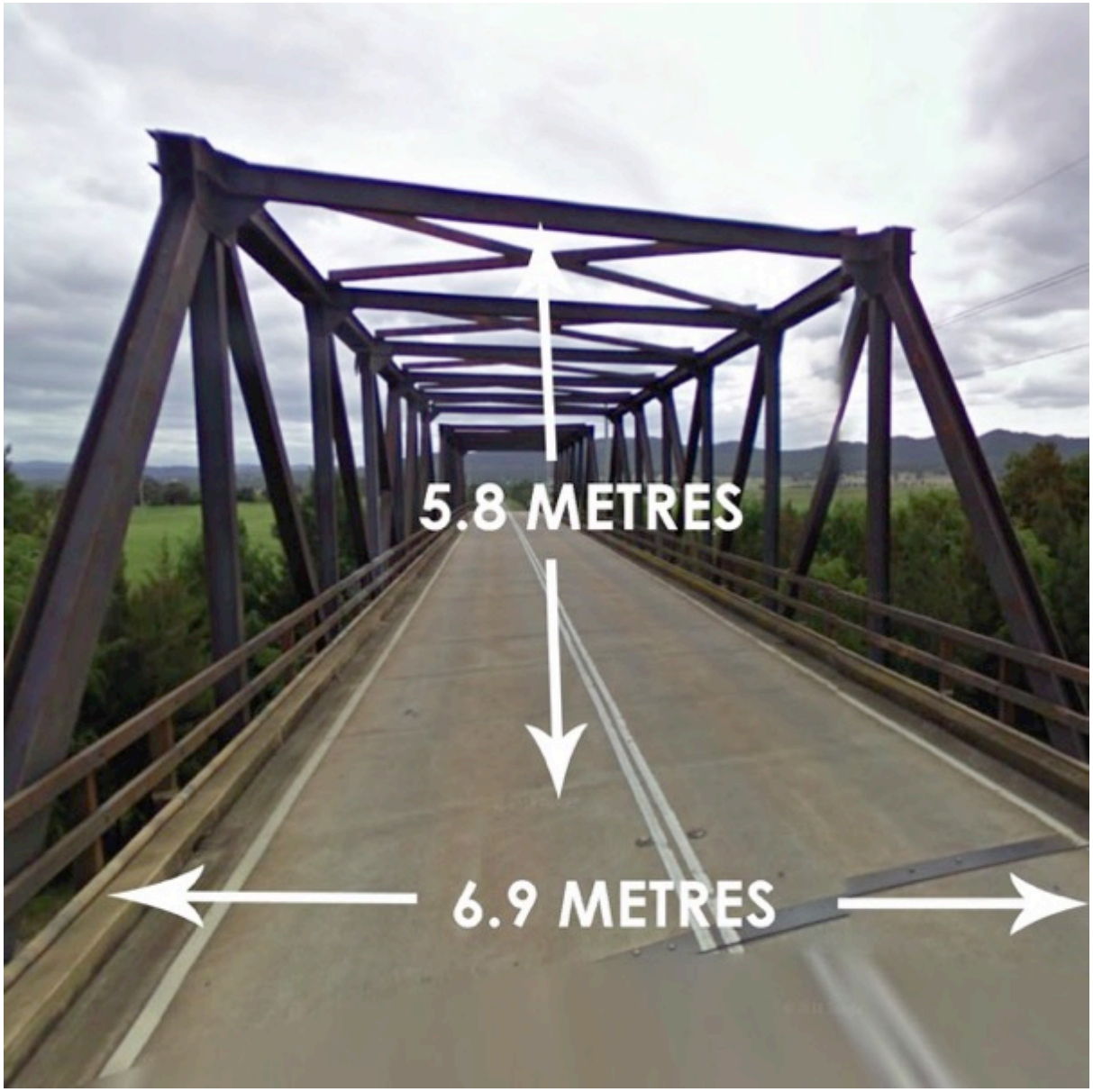
COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn left from the Golden Highway onto the Golden Highway while crossing onto the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

138.0 Km's: Denman Bridge.



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/UToXyFe3QKu

PINCHPOINT PROCEDURE: Travel over the bridge at no more than 10 km's p/hr and on the centre line of the structure.

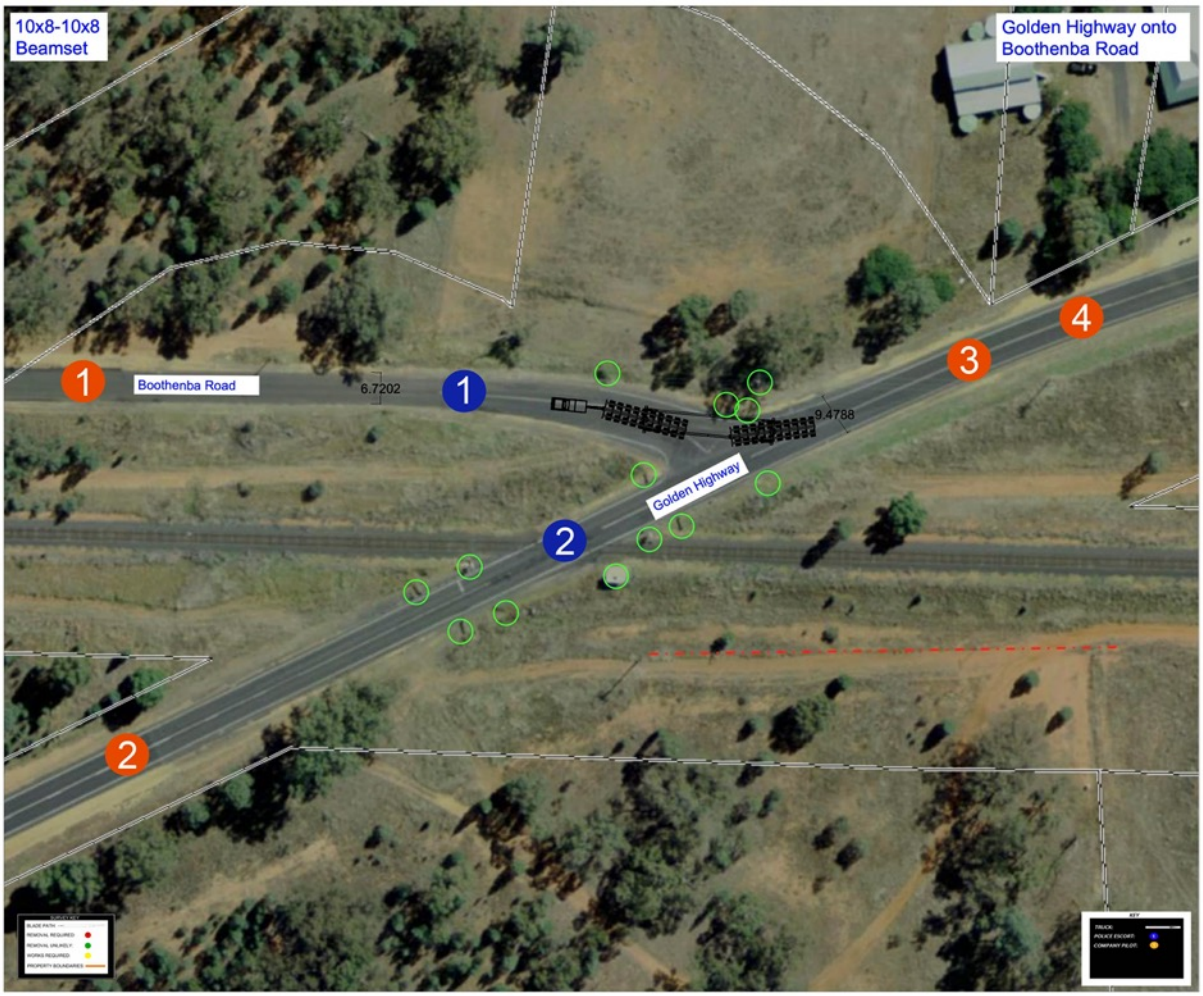
No other vehicles are to be on the structure as at the same time as the load.

Load to hydraulically lower to 5.5 metres before crossing this structure.

ROAD MODIFICATIONS: Nil.

372.0 Km's: Golden Highway onto Boothenba Road at Dubbo.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/TJLi5W4ir11ejgtb6

COMPANY PILOT 1: Warn all eastbound traffic on Boothenba Road.

COMPANY PILOT 2: Warn all eastbound traffic on the Golden Highway.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

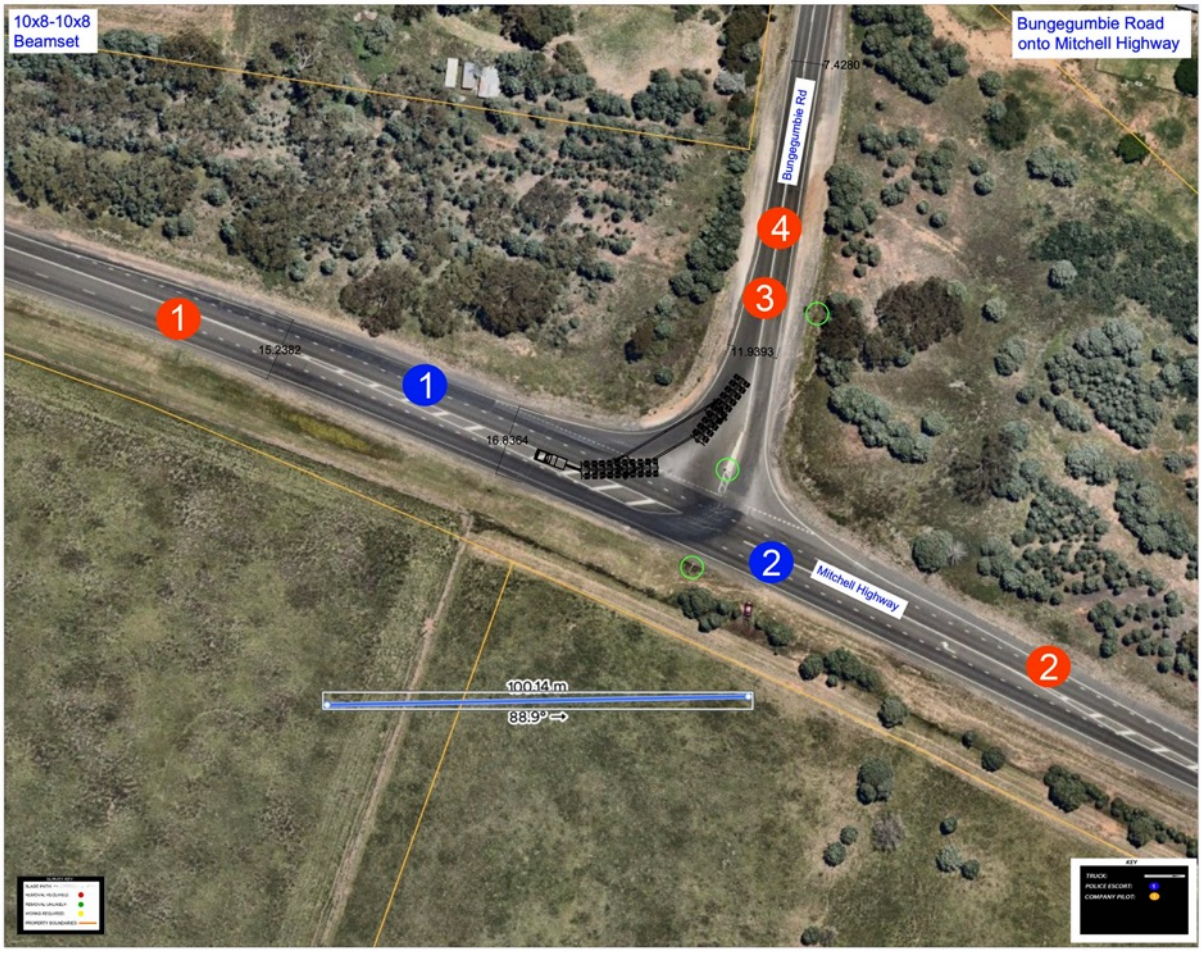
COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right from the Golden Highway onto Boothenba Road while crossing onto the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

403.0 Km's: Bunglegumbie Road onto the Mitchell Highway at Dubbo.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/jCWqmaQsd3fChp837

COMPANY PILOT 1: Warn all eastbound traffic on the Mitchell Highway.

COMPANY PILOT 2: Warn all westbound traffic on the Mitchell Highway.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right from Bunglegumbie Road onto the Mitchell Highway while crossing onto the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

423.0 Km's: Mitchell Highway onto Manildra Street at Narromine.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/WPhQahdAKGjRSNvy8

COMPANY PILOT 1: Warn all traffic 150 Metres in front of the load.

COMPANY PILOT 2: Warn all traffic 100 Metres in front of the load.

COMPANY PILOT 3: Warn all traffic 50 Metres in front of the load.

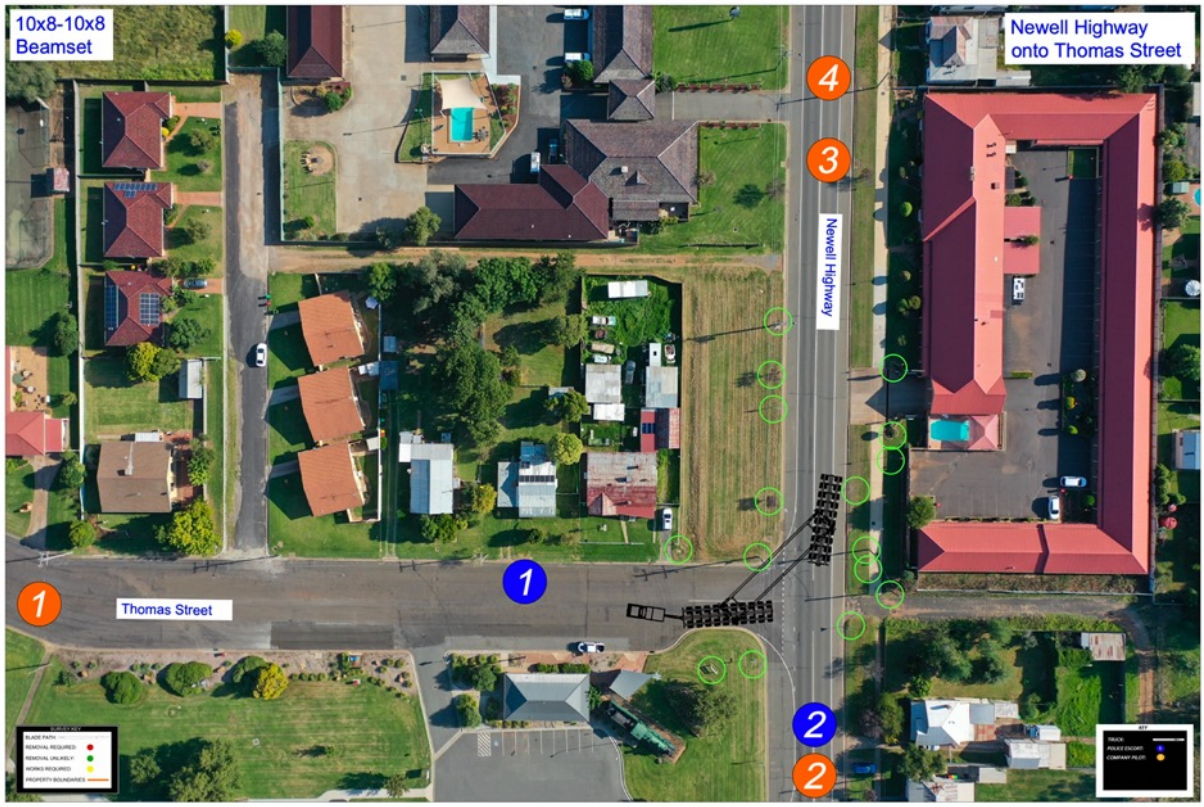
COMPANY PILOT 4: Stay 500 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn left from the Mitchell Highway onto Manildra Street before crossing onto Algalah Street while crossing onto the incorrect side of the road on several intersections.

ROAD MODIFICATIONS: Nil.

525.0 Km's: Newell Highway onto Thomas Street at Parkes.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/fSnFVWPr78RePSTz9

COMPANY PILOT 1: Warn all eastbound traffic on Thomas Street.

COMPANY PILOT 2: Warn all northbound traffic on the Newell Highway.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right from the Newell Highway onto Thomas Street while crossing onto the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

527.4 Km's: Moulden Street onto Back Trundle Road onto Ross Road at Parkes.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/1JA2hh5EMZ3G3QfS9

COMPANY PILOT 1: Warn all northbound traffic on Ross Road.

COMPANY PILOT 2: Warn all northbound traffic on Ross Road.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

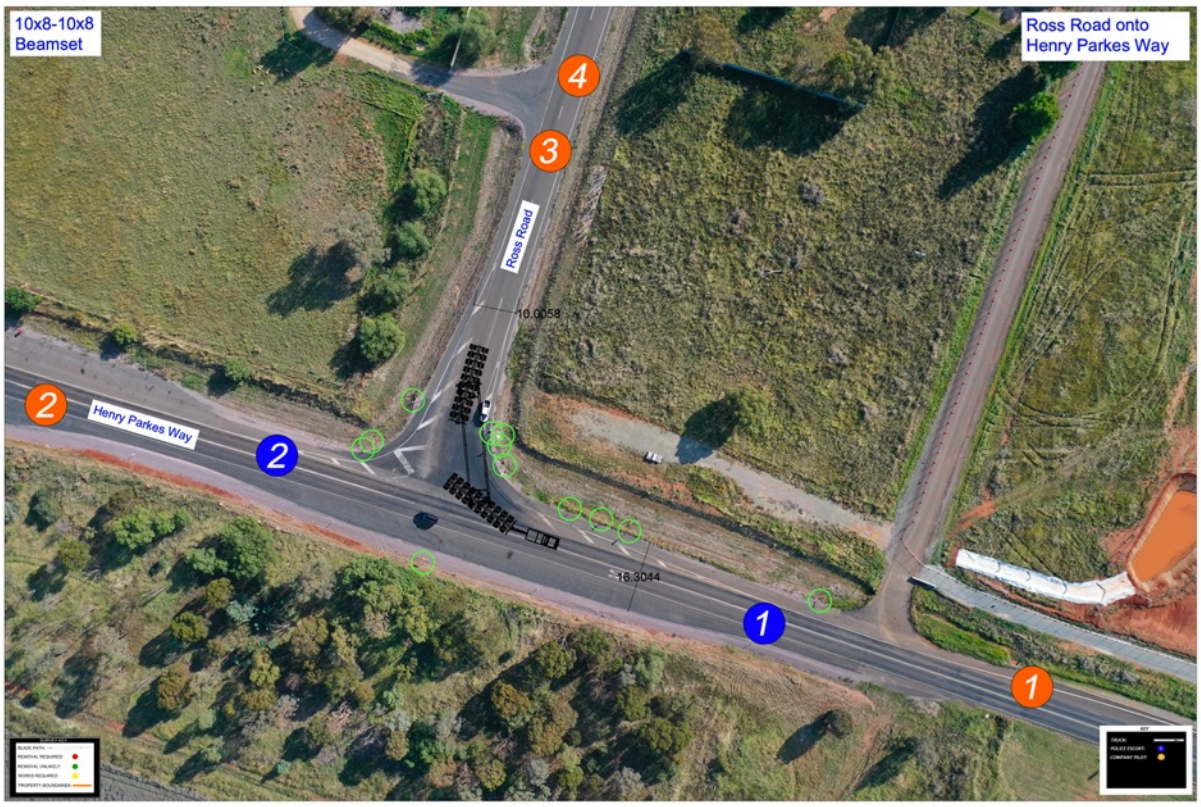
COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right than left from Moulden Street onto Ross Road via Back Trundle Road while crossing onto the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

527.8 Km's: Ross Road onto Henry Parkes Way at Parkes.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/UKvs2QekwwFuP6oS8
COMPANY PILOT 1: Warn all westbound traffic on Henry Parkes Way.
COMPANY PILOT 2: Warn all eastbound traffic on Henry Parkes Way.
COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.
COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.
PINCHPOINT PROCEDURE: Load to turn left from Ross Road onto henry Parkes Way.
ROAD MODIFICATIONS: Nil.

528.0 Km's: Henry Parkes Way onto Westlime Road at Parkes.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/QhZmTtpL1vNkUE7i8

COMPANY PILOT 1: Warn all northbound traffic on Westlime Road.

COMPANY PILOT 2: Warn all westbound traffic on Henry Parkes Way.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right from Henry Parkes Way onto Westlime Road while crossing onto the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

532.0 Km's: Hartigan Avenue onto the Newell Highway at Parkes.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/y3rabftt4HGreX9e6

COMPANY PILOT 1: Warn all northbound traffic on the Newell Highway.

COMPANY PILOT 2: Warn all northbound traffic on the Newell Highway.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

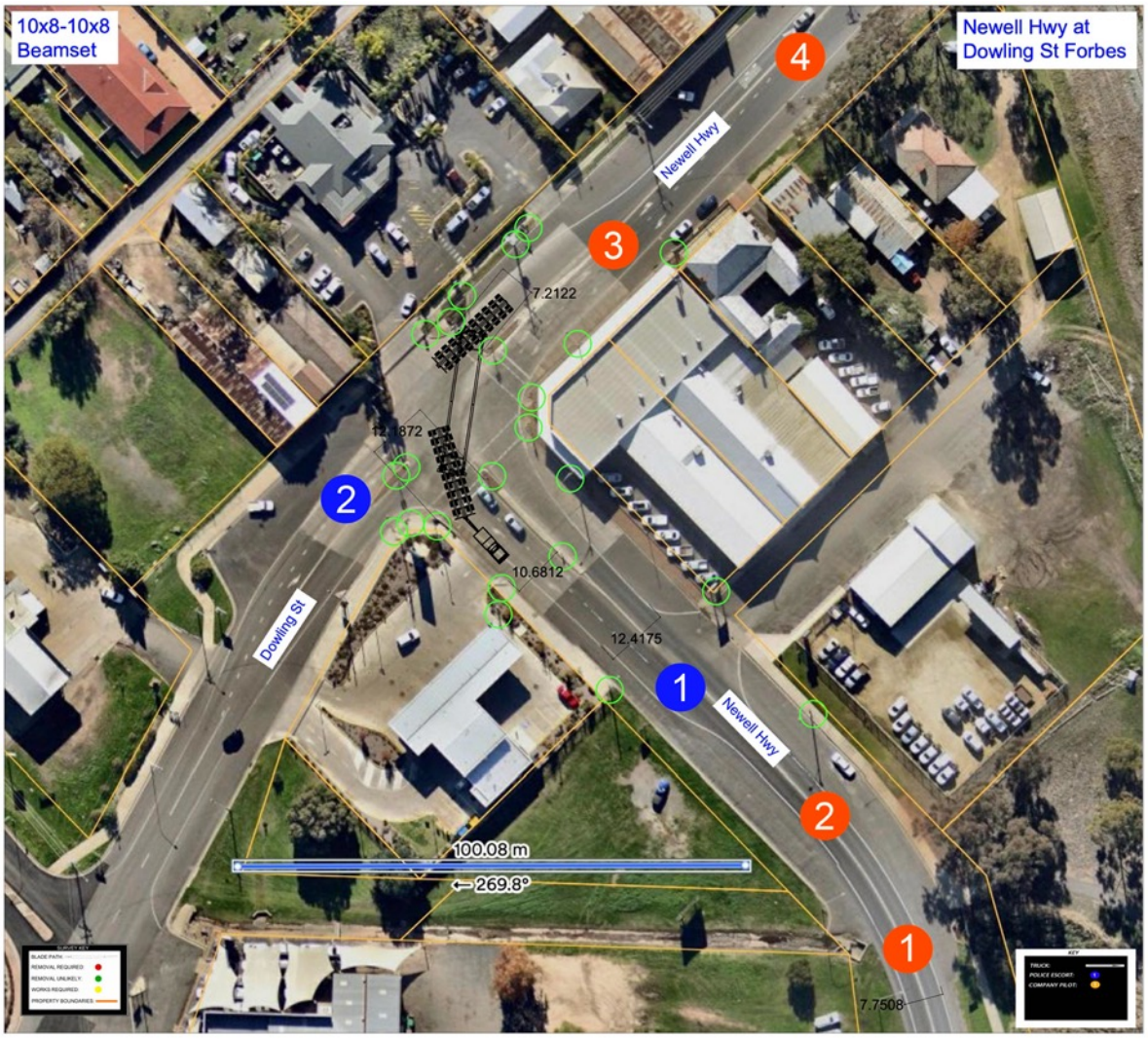
COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right from Hartigan Avenue onto the Newell Highway while crossing onto the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

563.0 Km's: The Newell Highway intersection with Dowling Street at Forbes.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/DqkvxH4qtWnXvLJ26

COMPANY PILOT 1: Warn all northbound traffic on the Newell Highway.

COMPANY PILOT 2: Warn all northbound traffic on the Newell Highway.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn left from the Newell Highway onto the Newell Highway on the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

664.0 Km's: The Newell Highway onto Compton Road at West Wyalong.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/PeM4uWg5hLiyZiPd8

COMPANY PILOT 1: Warn all northbound traffic on Compton Road.

COMPANY PILOT 2: Warn all northbound traffic on Compton Road.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

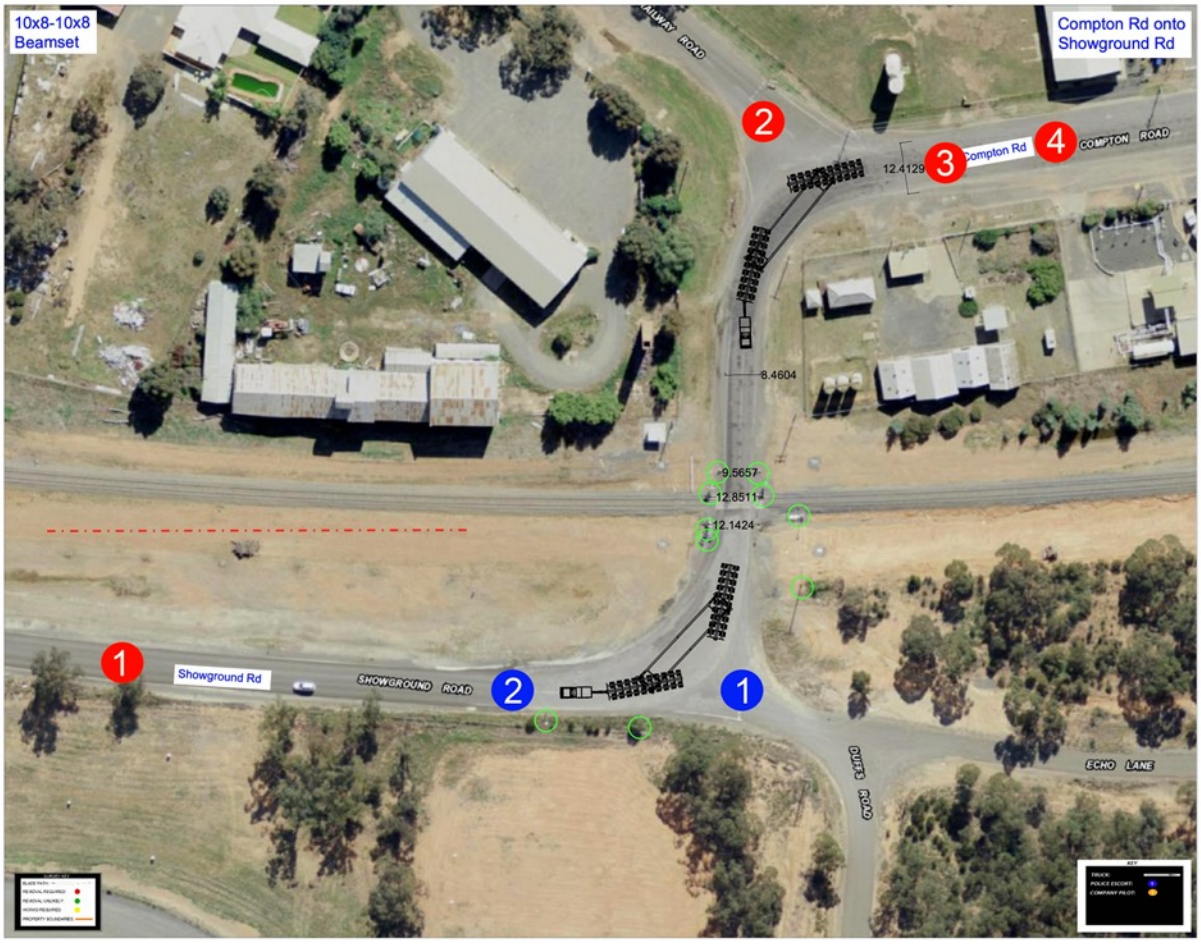
COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn left from the Newell Highway onto Compton Road while crossing onto the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

666.5 Km's: Compton Road onto Showground Road at West Wyalong.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/hts5qARMMWZcvW7R7

COMPANY PILOT 1: Warn all northbound traffic on Compton Road.

COMPANY PILOT 2: Warn all northbound traffic on Compton Road.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

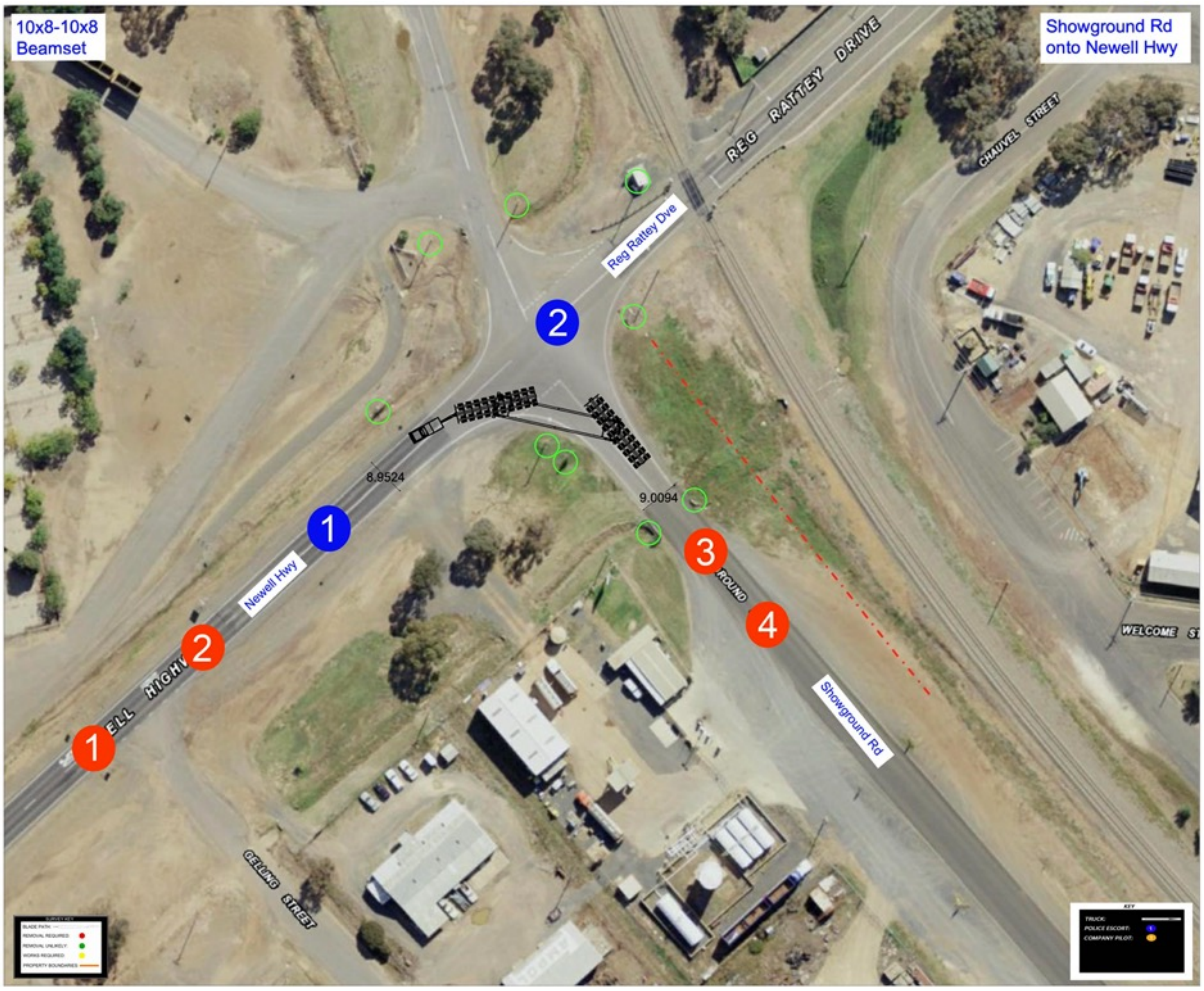
COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Dogleg turn from Compton Road onto Showground Road while crossing onto the incorrect side of the road. Rail protection officer may be required to travel over the rail crossing.

ROAD MODIFICATIONS: Nil.

669.0 Km's: Showground Road onto the Newell Highway at West Wyalong.

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/yAyBdrZcocEeTBnz6

COMPANY PILOT 1: Warn all northbound traffic on the Newell Highway.

COMPANY PILOT 2: Warn all northbound traffic on the Newell Highway.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

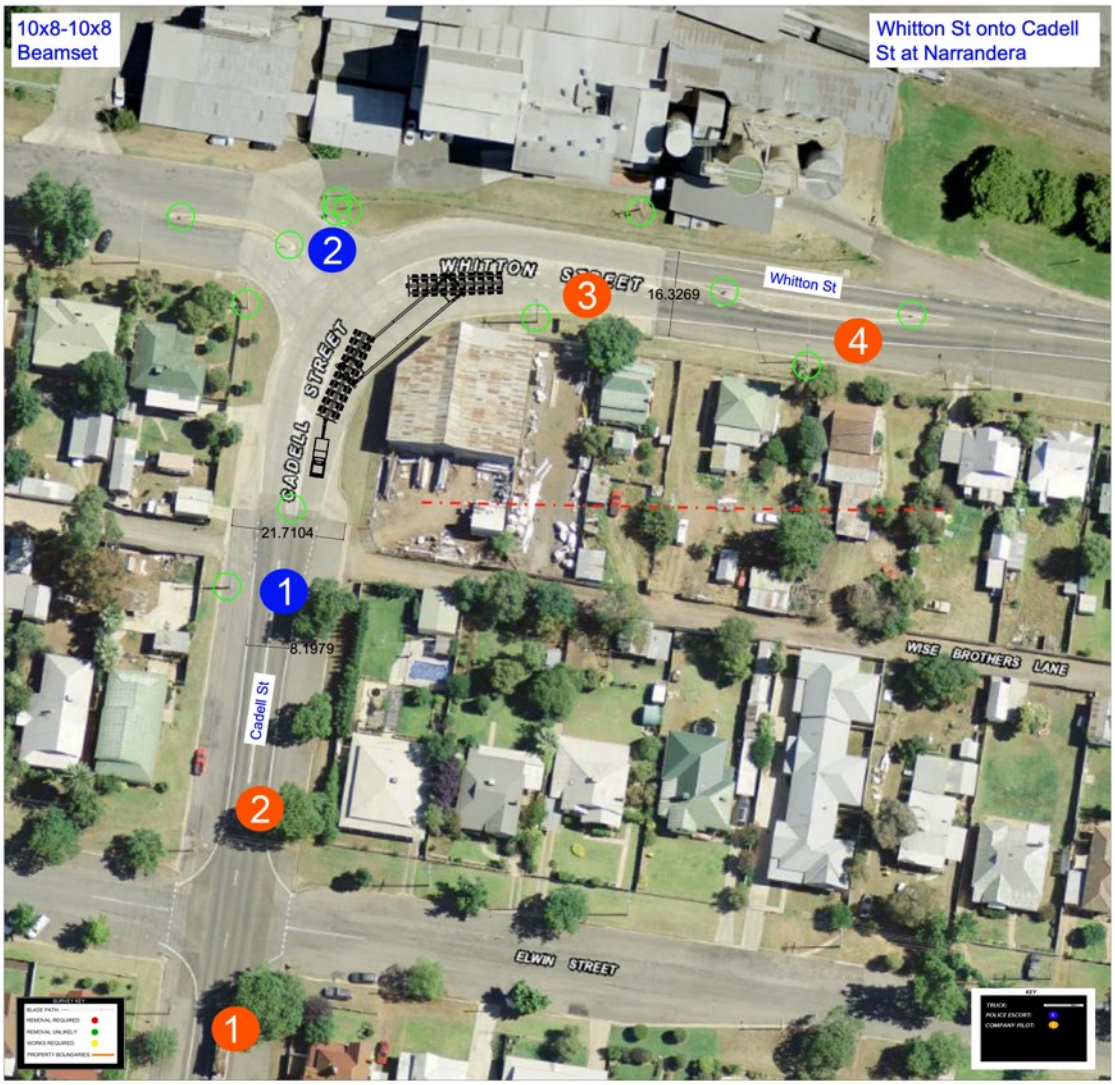
COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn left from Showground Road onto the Newell Highway while crossing onto the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

803.0 Km's: Whitton Street onto Cadell Street at Narrandera. (Newell Highway)

Image 1:



GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/EXcuuBeMsXdhVDtm8

COMPANY PILOT 1: Warn all northbound traffic on Caddell Street.

COMPANY PILOT 2: Warn all northbound traffic on Caddell Street.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn left from Whitton Street onto Caddell Street while staying on the correct side of the road.

ROAD MODIFICATIONS: Nil.

825.0 Km's: The Sturt Highway onto Sandigo Road at Sandigo.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/c3ZDZEj78aMwmqEh8

COMPANY PILOT 1: Warn all northbound traffic on Sandigo Road.

COMPANY PILOT 2: Warn all westbound traffic on the Sturt Highway.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right from the Sturt Highway onto Sandigo Road while crossing onto the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

826.0 Km's: Sandigo Road onto Muntz Road at Sandigo.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/WErjz7kPjHWLPRsP6

COMPANY PILOT 1: Warn all eastbound traffic on Muntz Road.

COMPANY PILOT 2: Warn all eastbound traffic on Muntz Road.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right from Sandigo Road onto Muntz Road while crossing onto the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

828.0 Km's: Muntz Road into Avonleigh Solar Access Road at Sandigo.

Image 1:

GPS LINK FOR SECTION OF ROAD: https://goo.gl/maps/R3T3az3oQiSRg6GV7

COMPANY PILOT 1: Warn all eastbound traffic on Muntz Road.

COMPANY PILOT 2: Warn all eastbound traffic on Muntz Road.

COMPANY PILOT 3: Stay 50 metres behind the load and warn all traffic.

COMPANY PILOT 4: Stay 100 metres behind the load and warn all traffic.

PINCHPOINT PROCEDURE: Load to turn right from Muntz Road onto Avonleigh Solar Access Road while crossing onto the incorrect side of the road.

ROAD MODIFICATIONS: Nil.

15.0 Pinch Points

The following are the pinch points on this route:

- REGULAR ROUTE ASSESMENTS: Prior to the movement Rex J Andrews P/L is to contact TfNSW and local councils regarding any potential roadworks that road stakeholders would have taken place on the route during the proposed delivery dates. Driver/Supervisors are to have full contact details and communicate with these roadwork's managers while on route.

- SWEPT PATH ANALYSIS: This study shows all pinchpoint manoeuvres on route and is a guide to show possible arrangements for traffic control at each of the pinchpoints.

- BRIDGE CROSSINGS: The load is to travel over all structures as per the TfNSW bridge assessment for this movement. Load to take special caution at Denman Bridge and lower the load to 5.5 metres maximum before crossing this structure in the centre of both lanes.

- NEWCASTLE: The load will need to undertake a U-turn on Maitland Road at Sandgate. All personnel are to be tool boxed on the methodology of these procedures.

- NARRENDERA: Some tree pruning is required in Narrendera prior to the load departing Newcastle.

PINCHPOINT PROCEDURES

Whilst some pinch points are known along the route demonstrating a method of negotiating each individual hazard would be flawed as traffic conditions are constantly changing.

It is crucial that appropriate measures are applied to avoid impact to road users and road infrastructure, the chosen route has been assessed and the load is capable of navigating the route, however local traffic conditions can create pinch points.

A pinch point is an area identified by the lead pilot and relayed to the convoy as having the potential to interfere with the swept path of the load, pinch points can be created by road furnishings, roundabouts, narrow sections of road, roadkill, corners, road works, parked vehicles, damaged pavement, this list is not exhaustive.

For the purposes of this traffic management plan identified pinch points will follow the following protocol.

The lead pilot must travel a sufficient distance in front of the load so as to survey the swept path required for the load, this will allow sufficient time to relay back road conditions or choke points to allow the driver to halt the load before causing congestion to other road users.

In the event of parked vehicles or local traffic conditions preventing the load from safely navigating the permitted route, the load cannot proceed until it is safe to do so.

The lead pilot will warn all oncoming traffic of the impending load, when the way forward for the transporter is established as being clear the load may proceed.

If built up queued traffic is behind the load, ensure that an opportunity to allow this traffic to pass is taken at the first safe opportunity.

The procedure for crossing bridges is reliant on only the load being on the bridge during the crossing, this will require a concentrated effort from the escort team to ensure that all vehicular traffic both in front of and behind the load are warned of the hazard.

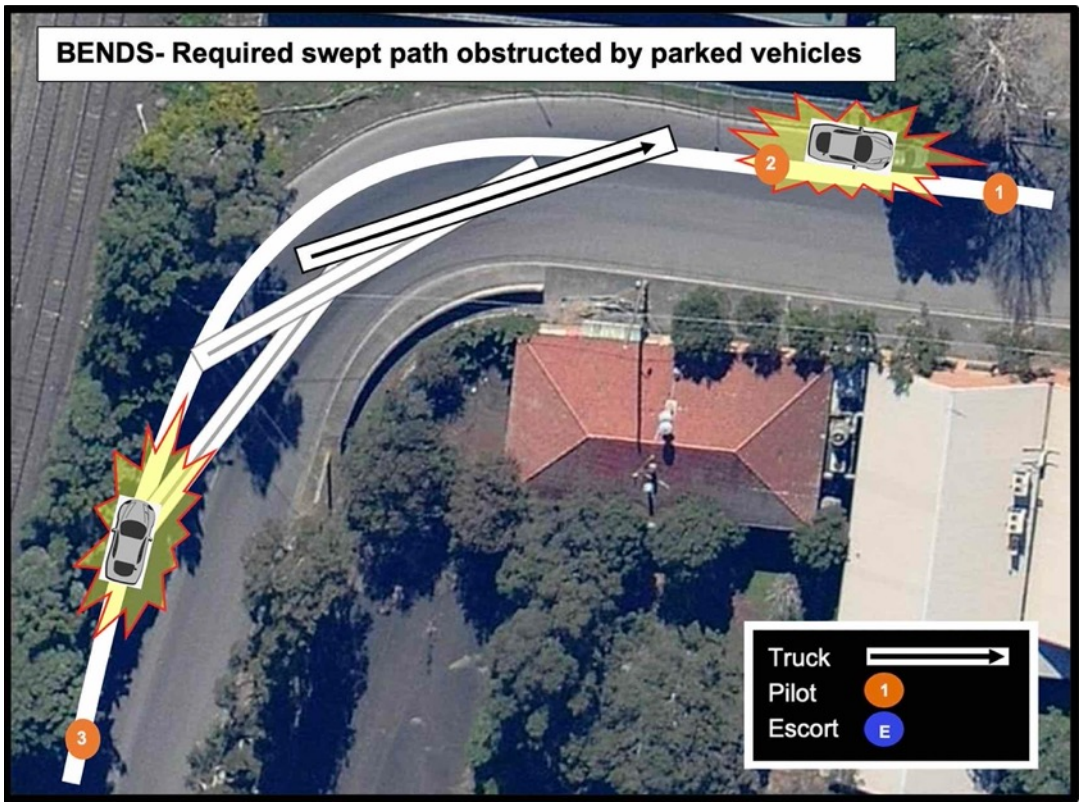
It is crucial that pinch points are discussed at the toolbox briefing and that all parties are aware of the protocols in place.

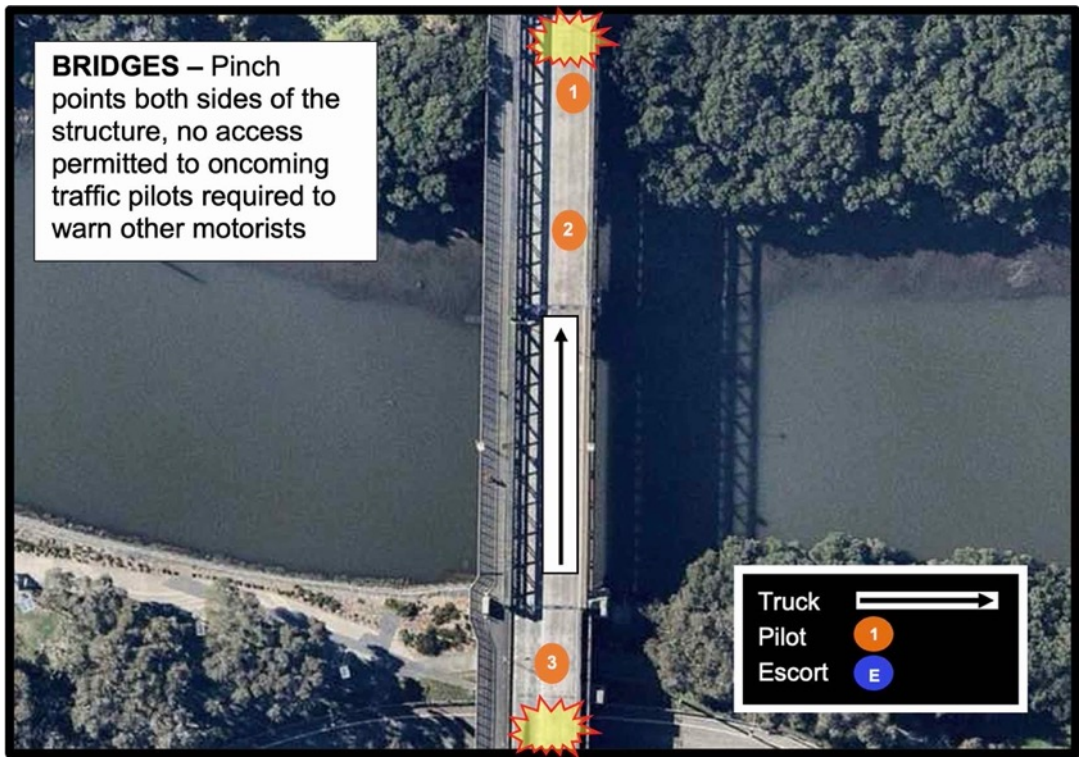
Drivers should familiarise themselves with the route including nominated bypasses for heavy vehicles along the route.

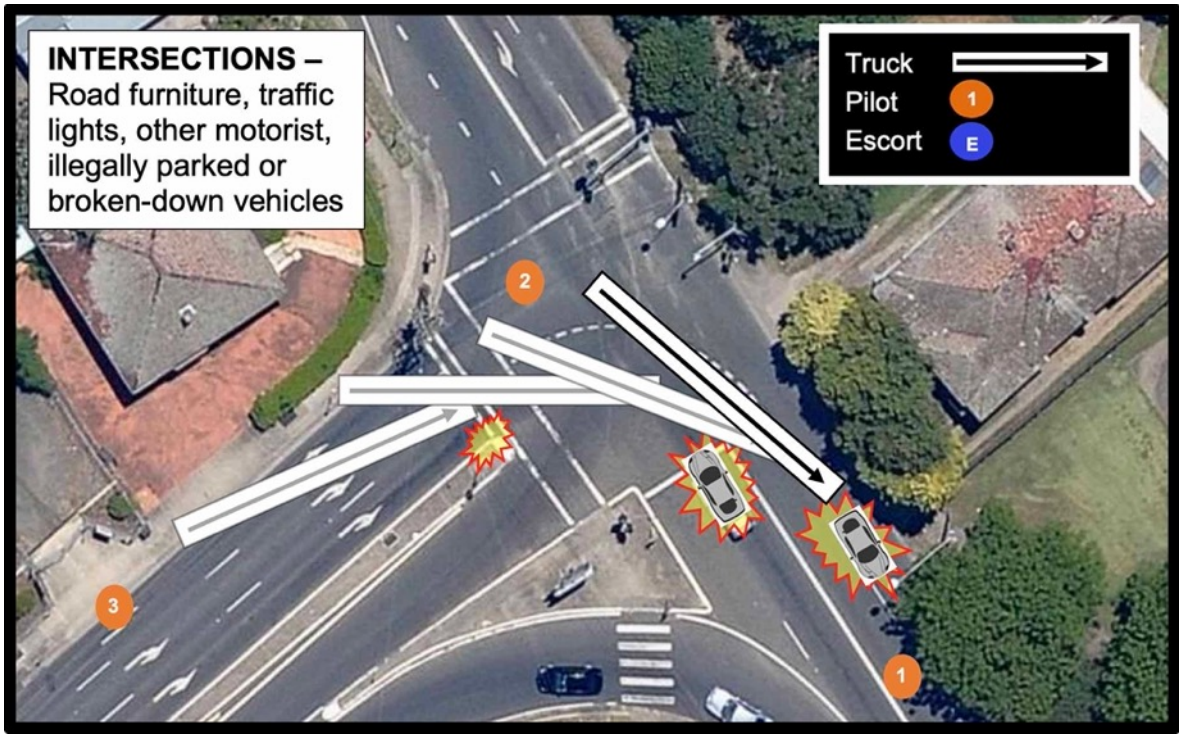
If there is any doubt as to the viability of accessing the permitted route the load must not continue until the way forward has been deemed appropriate.

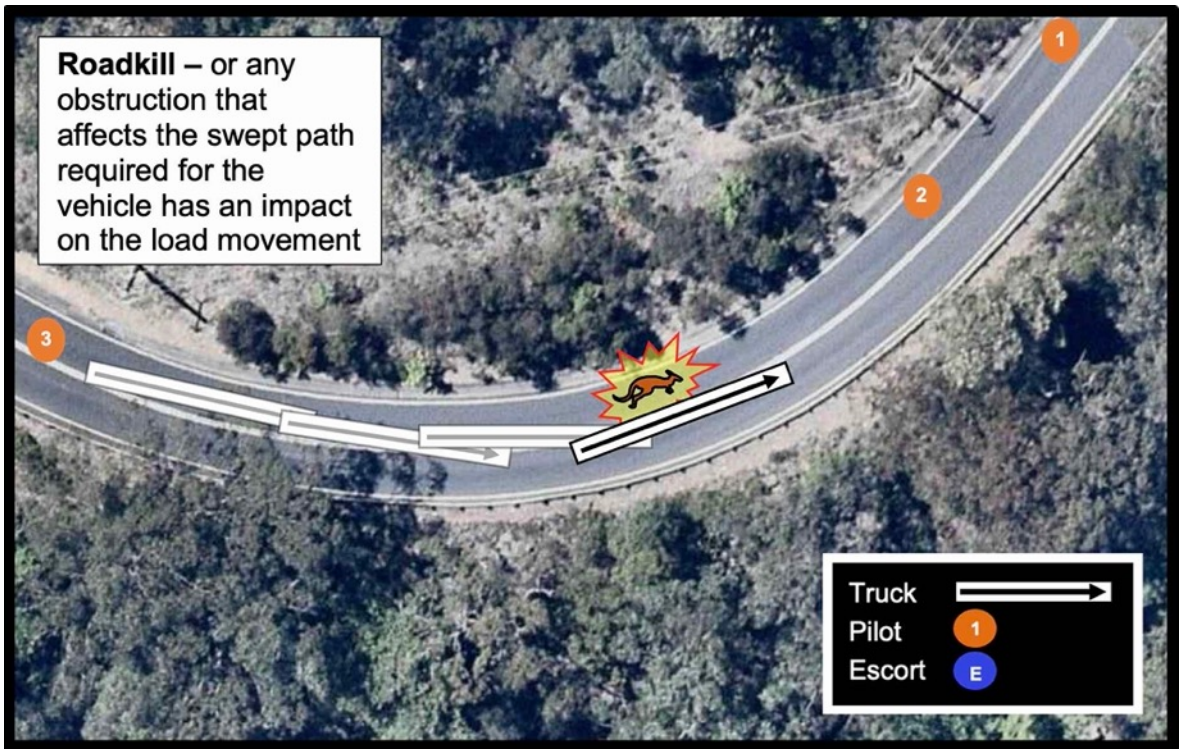
For more detail analysis of coping with roadwork refer to section 11.

Examples of pinch points:




BRIDGES – Pinch points both sides of the structure, no access permitted to oncoming traffic pilots required to warn other motorists
1
2
3
Truck
Pilot
Escort
1
E

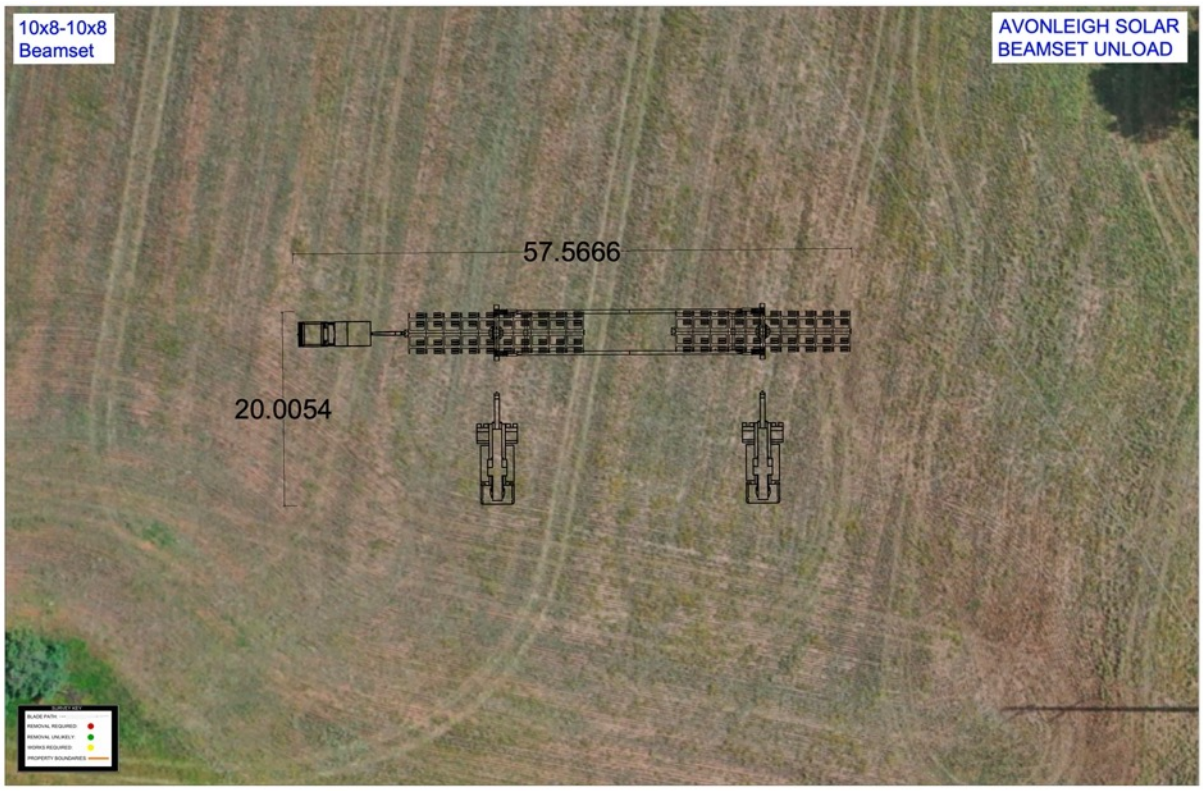

INTERSECTIONS – Road furniture, traffic lights, other motorist, illegally parked or broken-down vehicles
Truck
Pilot
Escort
1
E
2
3
1


Roadkill – or any obstruction that affects the swept path required for the vehicle has an impact on the load movement
1
2
3
Truck
Pilot
1
Escort
E

16.0 Beamset unload:

The beamset will need to be able to park parallel to the foundation, and enough room provided for 2 x 90T cranes to dissemble the beamset. Please see below image for an idea of the area required to undertake these works.

Image 1:



17.0 TMP Revisions:

Revision number	Revision Date	Author	Description of changes
01	22/02/2022	WA	Section 16: Beamset unload added.

18.0 References:

Australian Load Restraint Guide
Rex J Andrews P/L transport drawing
Hyosung transformer drawing
Rex J Andrews route survey #333 REV00
Google Earth/Maps
Nearmaps
NHVAS Maintenance Management (NHVAS21193)
NHVAS Basic Fatigue Management (NHVAS21193)

19.0 TMP Review:

Final Review	Name	Signature	Date
TMP Checked by:	Warrick Andrews		
	Carl Andrews		
	Mark Sciberras		

Sign On: **I confirm that I have received a hard copy of this TMP, I have read and understood the contents; by signing this document I acknowledge that I am now familiar with the identified pinch points, the route and the conditions relating to time of travel. I understand that prior to travel a supervisor may ask me questions specific to this TMP, in the event that I cannot demonstrate awareness of the conditions of the TMP I must delay my departure until I have reviewed its content.**

Name	Role	Signature	Date	Company

Appendix H Proposed road and culvert upgrades

GOULBURN RIVER SOLAR FARM

WOLLARA ROAD

ROAD UPGRADE

ISSUED FOR INFORMATION

NUMBER	DESCRIPTION			REV
0305-DRG-00-GE-0001	GENERAL	COVER SHEET AND DRAWING INDEX	1 OF 1	A
0305-DRG-00-GE-0031	PAVEMENT	PAVEMENT DETAILS	1 OF 1	A
0305-DRG-00-GE-0051	ROAD	TYPICAL SECTIONS	1 OF 1	A
0305-DRG-00-PV-0101	PAVEMENT	PLAN	1 OF 4	A
0305-DRG-00-PV-0102	PAVEMENT	PLAN	2 OF 4	A
0305-DRG-00-PV-0103	PAVEMENT	PLAN	3 OF 4	A
0305-DRG-00-PV-0104	PAVEMENT	PLAN	4 OF 4	A

FOR INFORMATION ONLY

DRAWING FILE LOCATION / NAME
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A1 SIZE DRAWING
	A	20.09.22	ISSUED FOR INFORMATION	-	MD	

CO-ORDINATE SYSTEM: MGA ZONE 56 (GDA2020) HEIGHT DATUM: AHD

PLOT DATE / TIME: 20 September 2022 11:16:35 AM PLOT BY: KateMercer

TITLE	NAME	DATE
DRAWN	K.MERCER	20.09.22
DRG CHECK	B.EVANS	20.09.22
DESIGN	B.DUNLOP	20.09.22
DESIGN CHECK	J.DeWIT	20.09.22
DESIGN MNGR	J.DeWIT	20.09.22
PROJECT MNGR	R.BANZON	20.09.22

DRAWINGS / DESIGN PREPARED BY
DESIGNER
turnbull

DRAWINGS / DESIGN PREPARED FOR
CLIENT

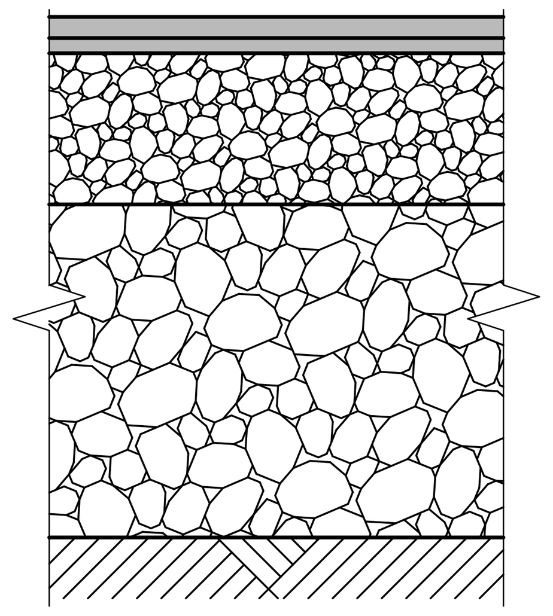
DRAWING TITLE
GOULBURN RIVER SOLAR FARM, EIS
GENERAL
COVER SHEET AND DRAWING INDEX

A1

SHEET
1 OF 1

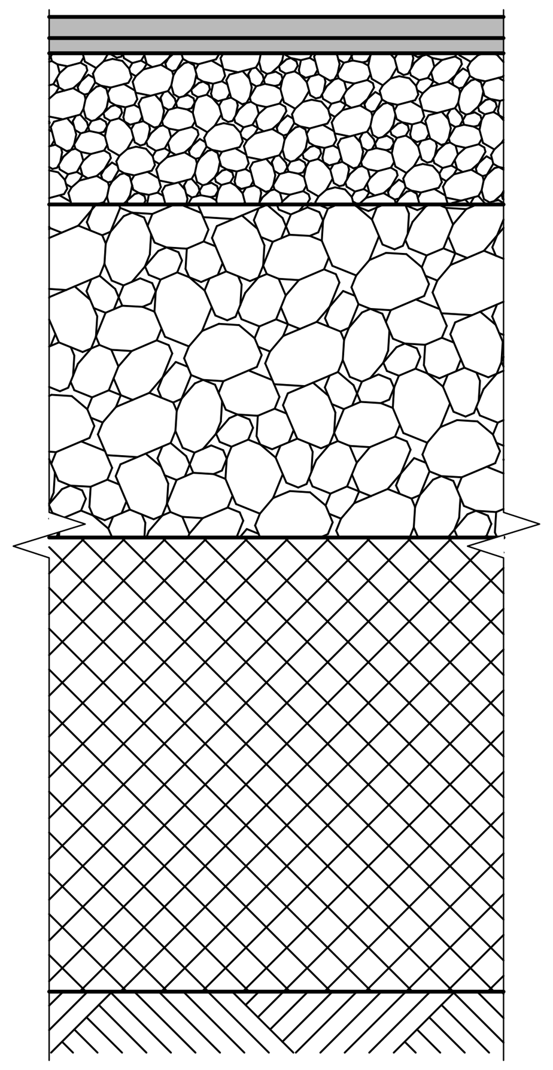
DRAWING NUMBER 0305-DRG-00-GE-0001

ISSUE STATUS: FOR INFORMATION
SHEET No.: 00-GE-0001
ISSUE: A



TYPE 1
GRANULAR BASE SPRAYED SEAL
CH 0 - CH 390, CH 1000 - CH 2420, CH 2840 - CH 3350, CH 4100 - CH 4949.207

SCALE 1:5



TYPE 2
GRANULAR BASE SPRAYED WITH INSITU STABLISED SUBGRADE
CH 390 - CH 1000, CH 2420 - CH 2840, CH 3350 - CH 4100

SCALE 1:5

HOLD - SEE NOTE 1

NOTES

1. PAVEMENT TYPES ARE SUBJECT TO GEOTECHNICAL INVESTIGATION AND ASSUMED BASED ON PAVEMENT REHABILITATION WORKS ON RINGWOOD ROAD COMPLETED IN 2021.

FOR INFORMATION ONLY

DRAWING FILE LOCATION / NAME
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PLOT DATE / TIME: 20 September 2022 03:48:42 PM
PLOT BY: KateMercer

EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
X-0305-00-GE-A1-SHT X-0305-PV-PROFILES	A	20.09.22	ISSUED FOR INFORMATION	-	MD

SCALES ON A1 SIZE DRAWING
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SCALE 1:5m

CO-ORDINATE SYSTEM: MGA ZONE 56 (GDA2020)
HEIGHT DATUM: AHD

TITLE	NAME	DATE
DRAWN	K.MERCER	20.09.22
DRG CHECK	B.EVANS	20.09.22
DESIGN	S.SHAMSODIEN	20.09.22
DESIGN CHECK	J.DeWIT	20.09.22
DESIGN MNGR	J.DeWIT	20.09.22
PROJECT MNGR	R.BANZON	20.09.22

DRAWINGS / DESIGN PREPARED BY
DESIGNER
turnbull

DRAWINGS / DESIGN PREPARED FOR
CLIENT

DRAWING TITLE
GOULBURN RIVER SOLAR FARM, EIS
GENERAL
PAVEMENT DETAILS

A1

SHEET 1 OF 1

DRAWING NUMBER: 0305-DRG-00-GE-0031

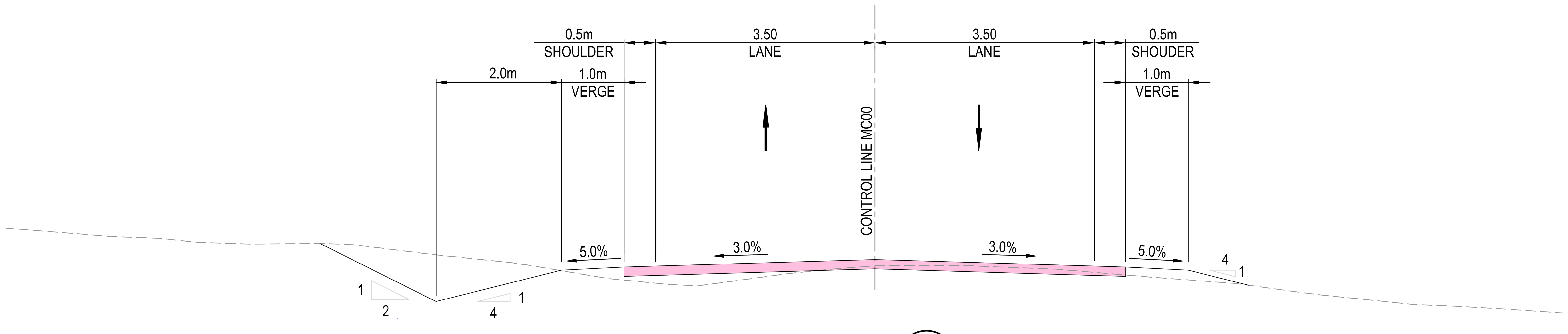
ISSUE STATUS: FOR INFORMATION
SHEET No.: 00-GE-0031
ISSUE: A

LEGEND

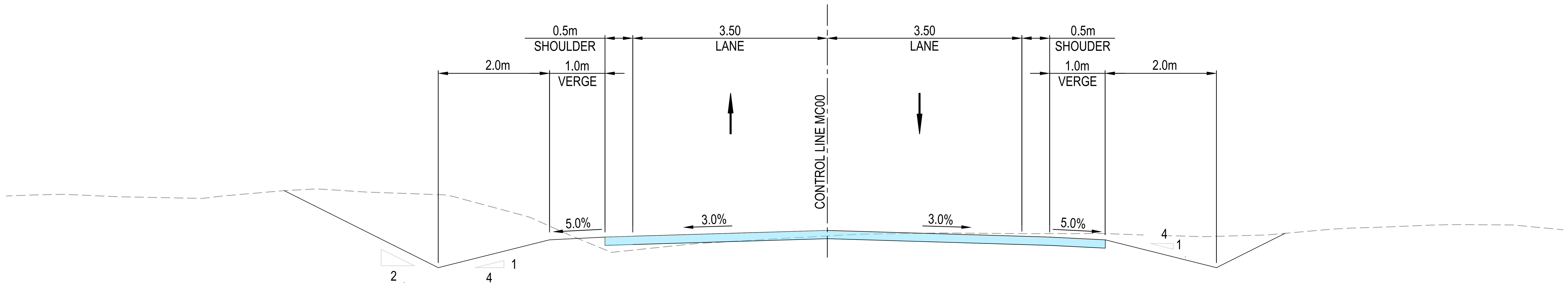
- EXISTING SURFACE
- DESIGN SURFACE
- PAVEMENT TYPE 1
- PAVEMENT TYPE 2

NOTE

1. FOR PAVEMENT TYPE REFER TO 0305-DRG-00-GE-0031.



SECTION 2
SCALE 1:50 PV -0103



SECTION 1
SCALE 1:50 PV-0102

FOR INFORMATION ONLY

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

50mm ON A3 SIZE ORIGINAL

DRAWING FILE LOCATION / NAME
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
	A	20.09.22	ISSUED FOR INFORMATION	-	MD

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SCALE 1:1000m

CO-ORDINATE SYSTEM: MGA ZONE 56 (GDA2020)
HEIGHT DATUM: AHD

PLOT DATE / TIME: 20 September 2022 11:18:28 AM
PLOT BY: KateMercer

TITLE	NAME	DATE
DRAWN	K.MERCER	20.09.22
DRG CHECK	B.EVANS	20.09.22
DESIGN	B.DUNLOP	20.09.22
DESIGN CHECK	J.DeWIT	20.09.22
DESIGN MNGR	J.DeWIT	20.09.22
PROJECT MNGR	R.BANZON	20.09.22

DRAWINGS / DESIGN PREPARED BY
DESIGNER
turnbull

DRAWINGS / DESIGN PREPARED FOR
CLIENT

DRAWING TITLE
GOULBURN RIVER SOLAR FARM, EIS
ROAD
TYPICAL SECTIONS

A1

SHEET
1 OF 1

DRAWING NUMBER 0305-DRG-00-GE-0051

ISSUE STATUS: FOR INFORMATION
SHEET No.: 00-GE-0051
ISSUE: A