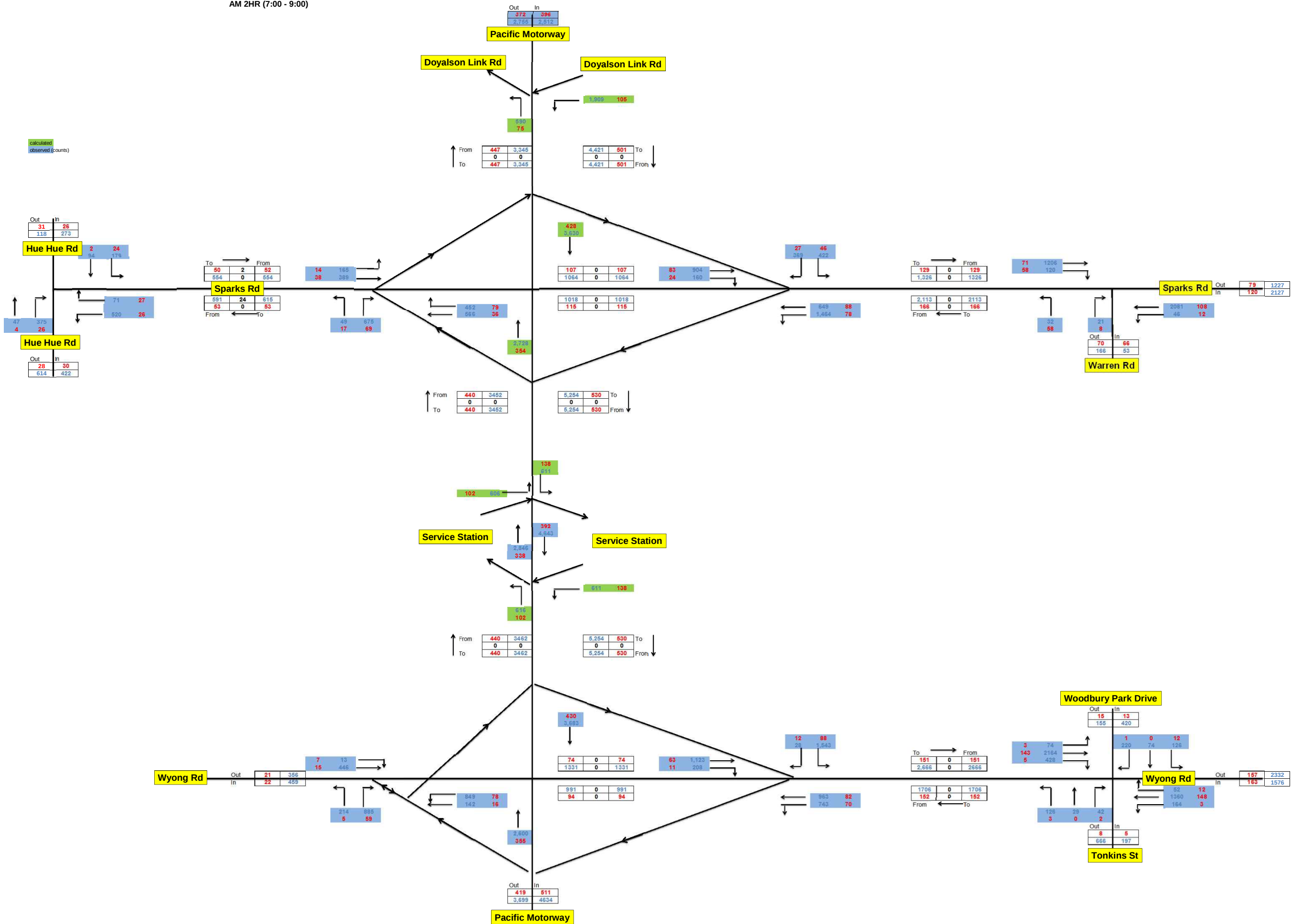


Appendix A

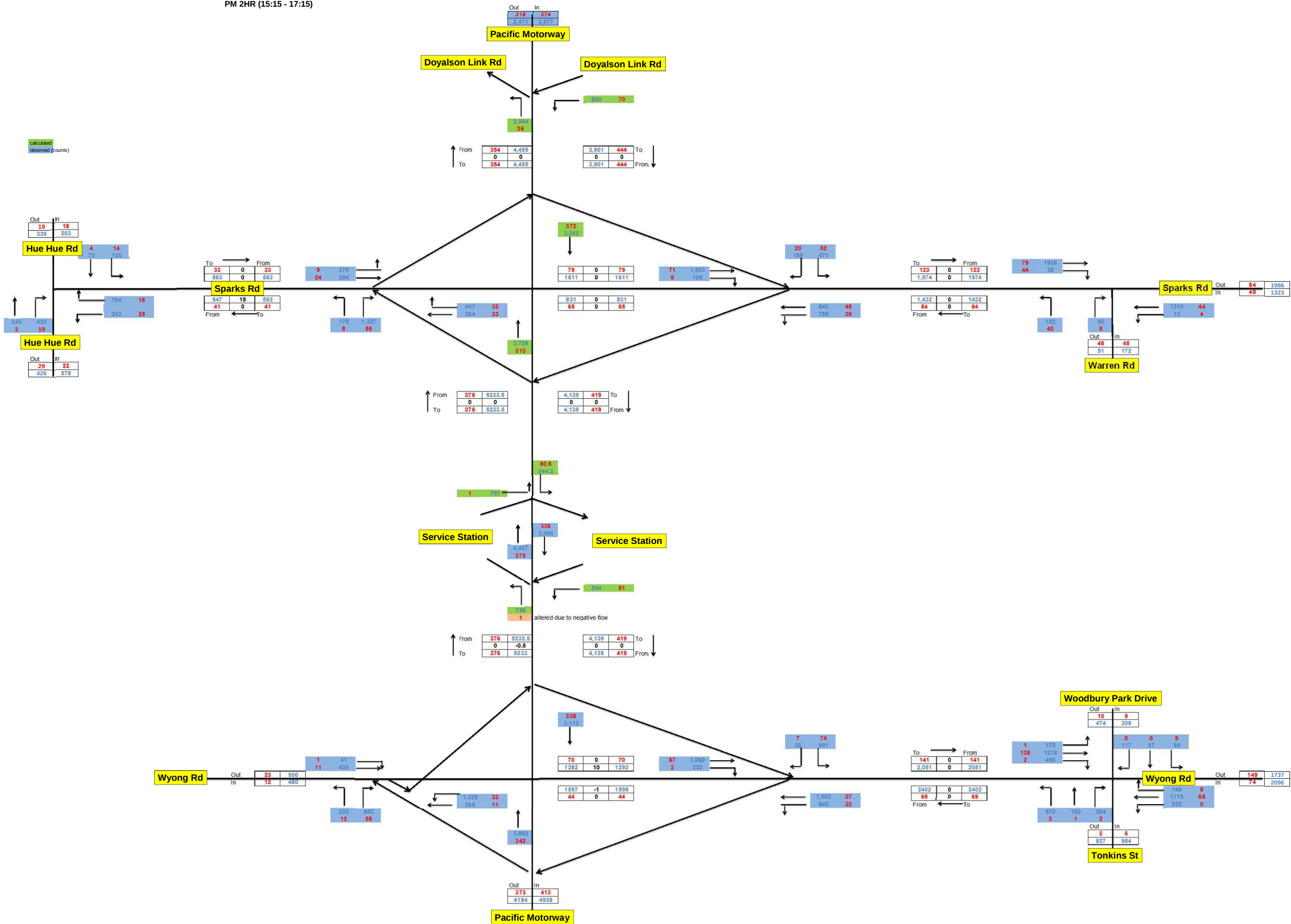
2013 AM and PM peak traffic volumes



AM 2HR (7:00 - 9:00)



PM 2HR (15:15 - 17:15)



Appendix B

Traffic assessment criteria



1.1 Assessment criteria

The criteria used for assessment of the models are described below.

1.1.1 Intersection delay and Level of Service

Intersection performance is measured by the delay experienced by vehicles. This measure can be used as a guide to assess the impact of the proposed upgrades on the performance of the road network. This delay is then associated with a Level of Service (LoS) according to RMS guidelines ranging from A (indicating good intersection performance) to F (indicating conditions with long delays and queues). A full list of levels of service is shown in Table 1.1.

Table 1.1 Level of Service criteria for intersections

Level of Service	Average delay (seconds per vehicle)	Traffic Signals, Roundabout	Give Way and Stop Signs
A	Less than 14	Good operation	Good operation
B	15 to 28	Good with acceptable delays and spare capacity	Acceptable delays and spare capacity
C	29 to 42	Satisfactory	Satisfactory, but accident study required
D	43 to 56	Operating near capacity	Near capacity and accident study required
E	57 to 70	At capacity. At signals, incidents will cause excessive delays. Roundabouts require other control mode	At capacity; requires other control mode
F	Greater than 71	Unsatisfactory with excessive queuing	Unsatisfactory with excessive queuing; requires other control mode

Source: RMS Guide to Traffic Generating Developments

Intersection overall LoS for signalised intersections are determined based on the average of all intersection approach delays, whereas for priority controlled intersections the intersection LoS is determined based on the worst approach/movement delay.

1.1.2 Motorway mainline Level of Service

Level of service for basic freeway segments is evaluated based on the vehicle density per lane per kilometre on the link. This measure can be used as a guide to assess the impact of the proposed upgrades on the performance of the freeway section. This link density is then associated with a Level of Service (LoS) according to Austroads guidelines ranging from A (indicating free flow operations) to F (indicating breakdown in vehicular flow). A full list of levels of service is shown in Table 1.2

Table 1.2 Level of Service criteria for basic freeway segments

Level of Service	Maximum density (pc/km/ln)	Basic freeway segments
A	Less than 7	Describes free flow operations
B	7 to 11	Represents reasonably free flow
C	11 to 16	Provides for flow with speeds at or near the free flow speed of the freeway
D	16 to 22	Is the level at which speeds begin to decline slightly
E	22 to 28	Describes at capacity operations
F	Greater than 28	Describes breakdown in vehicular flow

Source: Austroads Guide to Traffic management

1.1.3 Motorway merge performance

Performance of motorway merge segments is evaluated based on the travel speed in the merge influence area. This measure can be used as a guide to assess the impact of the proposed upgrades on the performance of the freeway merge section.

1.1.4 Motorway travel times/speed

Motorway average travel time and average travel speed is a measure to evaluate the overall performance of the Motorway network within the study area.

1.1.5 General network Statistics

Network statistics are used to assess the impact of the road network upgrade on the overall network performance. The main indicators for overall network performance are Vehicle Kilometres Travelled (VKT), Vehicle Hours of Travel (VHT) and Network Speed.

1.1.6 Traffic network unreleased demand (un-met demand)

Microsimulation models are only able to analyse the road network performance for networks which operate at or below the road network capacity. The excess demand is reported in the form of unreleased demand at the end of the traffic modelling period. This effectively means that the network link is so congested that a number of vehicles cannot enter the network and therefore are not counted within the model. The unreleased demand is used to assess the impact of the road network upgrades and increased demand on the extension of the peak period in the study area.

Appendix C

Calibration and validation report



C1. Model stability

Microsimulation packages dynamically model traffic interaction and driver behaviour for the duration of the modelled time period in a stochastic manner similar to real world traffic behaviour. For this reason microsimulation models tend to show more instability than more traditional forms of modelling as they utilise ranges and distributions of input parameters (control and behaviour) rather than single value averages. If a model is considered unstable then it cannot be reliably used to forecast future scenarios. Demonstrating that the model is both stable and developed to an appropriate degree of accuracy is therefore of high importance.

Paramics microsimulation models use random number sequences to produce a small level of variability (stochasticity) within each simulation to reflect the range of behaviours that are exhibited in the real world. The Paramics software package allows the modeller to provide an initial seed value for each model run. The seed value affects the generation of the random numbers that influence the model operation and variability.

Therefore each time the model is run with a different seed value a slightly different set of outputs is generated. It is generally expected that these outputs would be very similar, but not identical, and it is an analysis of the variability between these results that indicates the stability of the model.

According to the Roads and Maritime modelling guidelines, there are a number of ways in which the stability of a model across a number of seed runs can be demonstrated. Roads and Maritime suggests that at least one of the following techniques to be graphically presented within the base model reporting:

- number of vehicles in the network (for regular intervals over the modelled time period).
- total travel time in network or Vehicle Hour Travel (VHT) results.
- average vehicle speed in network.

In order to analyse the model stability for each peak period models, Parsons Brinckerhoff assessed model stability across 5 seed values as recommended by the Roads and Maritime guideline. The results from different seed values were produced for the following:

- average vehicle speed in network
- Vehicle Hour Travel (VHT) results.

The result of the model stability checks are shown in Figure 3.5. As shown, the traffic models indicate a stable set of results across different seed values with minimal oscillation across different seed values.

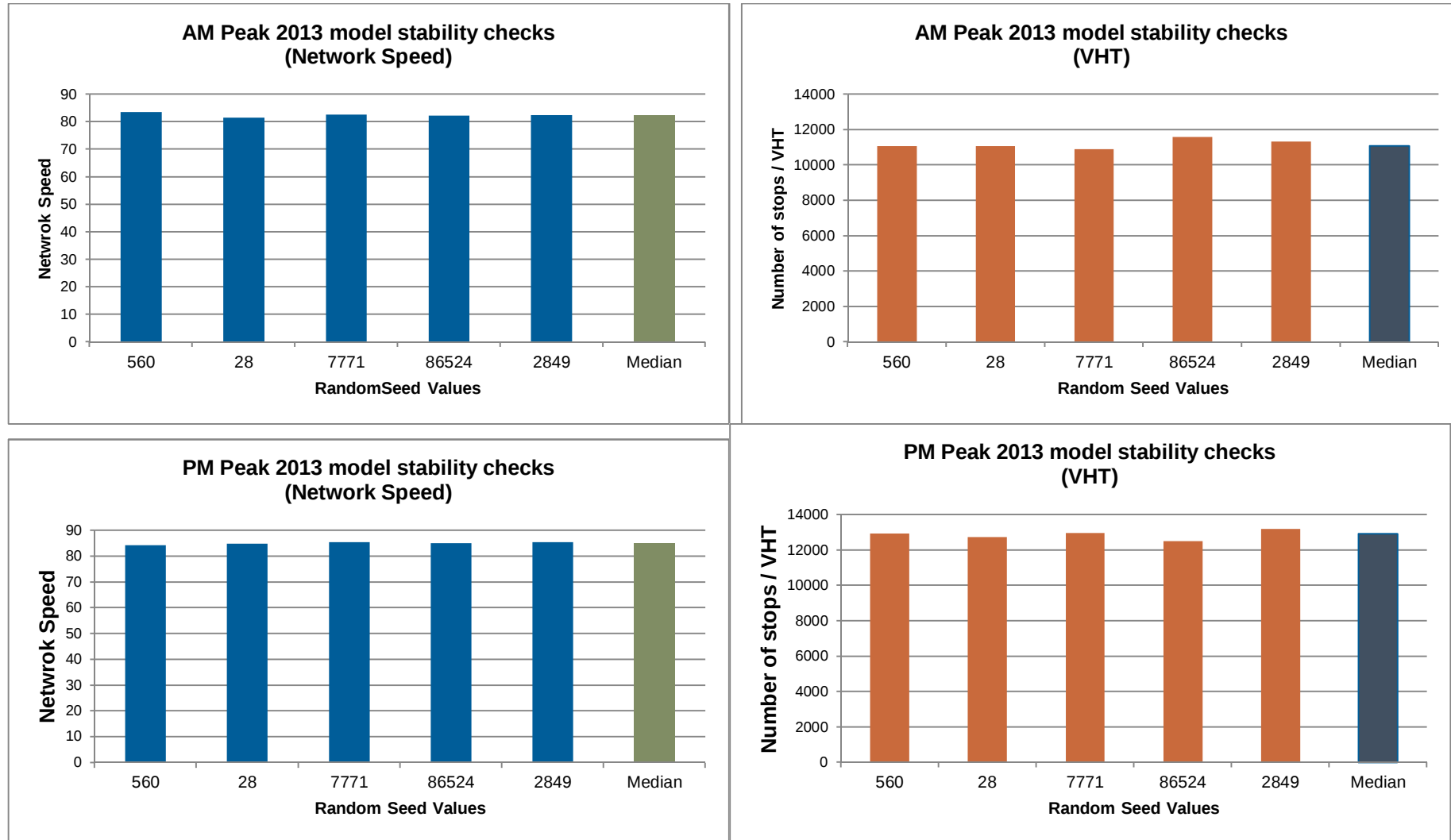


Figure C1.1 AM and PM peak model stability checks

C2. Model calibration

Model calibration involves matching observed traffic conditions with the Paramics models to provide confidence that the base model is representative of the existing traffic conditions. Model calibration has focused on observed network queuing conditions and observed traffic volumes.

Model validation, whilst similar to model calibration, consists of matching an independent set of data (not used in the model build process) with model outputs. In this case, travel time information has been used to validate the model.

Parsons Brinckerhoff, where possible, have followed the Roads and Maritime traffic modelling guideline; however, due to the size of the model and availability of the data, not all Roads and Maritime criteria are applicable (e.g. travel time scatter plots).

C2.1 Network calibration

The traffic models were calibrated to the observed drivers/vehicles behaviour within the traffic network.

Throughout the traffic modelling, a time step value of 5 was adopted and speed memory and mean reaction times were adjusted to reflect the adjusted time step. This ensures the models are representative of the shockwave phenomenon associated with traffic flow and ensure drivers' late reaction is not causing an overreaction. The phenomenon is particularly important at motorway on-ramps.

In order to calibrate the traffic models for the observed queue conditions and lane choice behaviour, the following parameters were adjusted in certain locations from the default values. This was done to replicate the observed traffic movement and queue conditions:

- signposting
- lane choice
- link reaction factors
- headway factor
- approach visibility
- force merge and force across
- minimum ramp time
- ramp aware distance.

C2.2 Turn and link flow calibration

To calibrate the model, observed turn counts and queue observations were compared with those in the model. This information was used to adjust the model until a reasonable level of calibration was achieved.

In calibrating the travel models to turn counts, it is critical to ensure that the correct traffic demand has been coded in the traffic networks, and logical vehicle routing is used. In doing so the routing patterns between individual zones were carefully studied and examined and compared against the observed traffic counts.

The traffic models were calibrated against the calibration criteria specified in Road and Maritime's modelling guidelines as shown below:

Table C2.1 Calibration achievement criteria

Assessment criteria	Target	Achieved	
		AM	PM
GEH Statistic less than 5 of all individual modelled flow	85%	100%	100%
R2 statistic for Screenline/Cordon links	0.9–1	0.99	0.99
GEH Statistic less than 3 for each directional screenline or cordon	100%	100%	100%
GEH Statistic less than 5 for individual links in screenline or cordon	85%	100%	100%
Difference in link flow within 10 for flows less than 100 vph	100%	100%	100%
Difference in link flow within 10% for flows between 100 and 1000 vph	100%	100%	100%
Difference in link flow within 100 for flows between 1,000-2,000 vph	100%	100%	100%
Difference in link flow within 5% for flows larger than 2,000vph	100%	100%	100%

In Table C2.1, GEH compares the differences between observed flows and modelled flows on a link by using the following formula:

$$GEH = \sqrt{(V_O - V_A)^2 / (0.5 \times (V_O + V_A))}$$

Where:

- V_O = Observed traffic flow (vehicles/hour)
- V_A = Assigned (or modelled) hourly traffic flow (vehicles/hour).

R squared is a statistical measure of how well a regression line approximates real data points. It is a descriptive measure between zero and one, indicating how good one term is at predicting another.

In addition Figure C2.3 shows the observed flow and modelled flow comparison for AM and PM peak periods.

As shown in Table C2.1 and Figure C2.3, the results indicate a good level of calibration, with most of the model statistics close to the ideal value of 1.00 or 100%. Detailed turn and link flow calibration results are shown in Figure C2.1 and Figure C2.2.

Index	ID	Intersection	Control	Approach	Road	Movement	Movement ID					2013 Counts/			2013 Modelled			
															AM2HR	AM1HR	AM2HR	AM1HR
									LV	HV	Total	LV	HV	Total	Total	Total		
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout	North	Woodbury Park Drive	1	I-1-1	R	220	1	221	116	1	116	214	112		
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			2	I-1-2	T	74	0	74	39	0	39	76	40		
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			3	I-1-3	L	126	12	138	66	6	73	137	72		
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout	East	Wyong Rd	4	I-1-4	R	52	12	64	27	6	34	72	38		
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			5	I-1-5	T	1,360	148	1,508	715	78	792	1538	808		
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			6	I-1-6	L	164	3	167	86	2	88	178	94		
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout	South	Tonkins St	7	I-1-7	R	42	2	44	22	1	23	46	24		
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			8	I-1-8	T	29	0	29	15	0	15	34	18		
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Priority			9	I-1-9	L	126	3	129	66	2	68	123	65		
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout	West	Wyong Rd	10	I-1-10	R	428	5	433	225	3	228	455	239		
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			11	I-1-11	T	2,164	143	2,307	1,137	75	1,212	2219	1,166		
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			12	I-1-12	L	74	3	77	39	2	40	75	39		
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout	North	F3 SB Off ramp	1	I-2-1	R	28	12	40	15	6	21	36	19		
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout			2	I-2-2	T			0	0	0	0	0	0		
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Priority			3	I-2-3	L	1,543	88	1,631	811	46	857	1588	834		
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout	East	Wyong Rd	4	I-2-4	R			0	0	0	0	--	--		
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout			5	I-2-5	T	963	82	1,045	506	43	549	987	519		
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Priority			6	I-2-6	L	743	70	813	390	37	427	881	463		
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout	South	F3 SB On ramp	7	I-2-7	R			0	0	0	0	--	--		
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout			8	I-2-8	T			0	0	0	0	--	--		
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout			9	I-2-9	L			0	0	0	0	--	--		
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout	West	Wyong Rd	10	I-2-10	R	208	11	219	109	6	115	239	126		
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout			11	I-2-11	T	1,123	63	1,186	590	33	623	1167	613		
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout			12	I-2-12	L			0	0	0	0	--	--		
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised	North	--	1	I-3-1	R			0	0	0	0	--	--		
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			2	I-3-2	T			0	0	0	0	--	--		
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			3	I-3-3	L			0	0	0	0	--	--		
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised	East	Wyong Rd	4	I-3-4	R			0	0	0	0	--	--		
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			5	I-3-5	T	142	16	158	75	8	83	153	80		
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			6	I-3-6	L	849	78	927	446	41	487	867	456		
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised	South	F3 NB On/Off ramp	7	I-3-7	R	885	59	944	465	31	496	899	472		
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			8	I-3-8	T			0	0	0	0	--	--		
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			9	I-3-9	L	214	5	219	112	3	115	213	112		
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised	West	Wyong Rd	10	I-3-10	R	13	7	20	7	4	11	28	15		
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			11	I-3-11	T	446	15	461	234	8	242	504	265		
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			12	I-3-12	L			0	0	0	0	--	--		
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority	North	Hue Hue Rd	1	I-4-1	R			0	0	0	0	--	--		
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			2	I-4-2	T	94	2	96	49	1	50	84	44		
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			3	I-4-3	L	179	24	203	94	13	107	218	115		
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority	East	Sparks Rd	4	I-4-4	R	71	27	98	37	14	51	100	53		
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			5	I-4-5	T			0	0	0	0	--	--		
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			6	I-4-6	L	520	26	546	273	14	287	514	270		
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority	South	Hue Hue Rd	7	I-4-7	R	375	26	401	197	14	211	412	216		
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			8	I-4-8	T	47	4	51	25	2	27	38	20		
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			9	I-4-9	L			0	0	0	0	--	--		
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority	West	--	10	I-4-10	R			0	0	0	0	--	--		
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			11	I-4-11	T			0	0	0	0	--	--		
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			12	I-4-12	L			0	0	0	0	--	--		
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Priority	North	F3 SB On ramp	1	I-5-1	R			0	0	0	0	--	--		
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Priority			2	I-5-2	T			0	0	0	0	--	--		
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Priority			3	I-5-3	L			0	0	0	0	--	--		
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Priority	East	Sparks Rd	4	I-5-4	R	452	79	531	237	42	279	507	266		
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Priority			5	I-5-5	T	566	36	602	297	19	316	573	301		
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Priority			6	I-5-6	L			0	0	0	0	--	--		
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Signalised	South	F3 NB Off ramp	7	I-5-7	R	675	69	744	355	36	391	715	376		
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Signalised			8	I-5-8	T			0	0	0	0	--	--		
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Signalised			9	I-5-9	L	49	17	66	26	9	35	61	32		
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Signalised	West	Sparks Rd	10	I-5-10	R			0	0	0	0	--	--		
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Signalised			11	I-5-11	T	389	38	427	204	20	224	452	237		
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Signalised			12	I-5-12	L	165	14	179	87	7	94	179	94		
6	I-6	F3 SB Off ramp / Sparks Rd / F3 SB On ramp / Sparks Rd	Priority	North	F3 SB Off ramp	1	I-5-1	R	369	27	396	194	14	208	361	190		
6	I-6	F3 SB Off ramp / Sparks Rd / F3 SB On ramp / Sparks Rd	Priority			2	I-5-2	T			0	0	0	0	--	--		
6	I-6	F3 SB Off ramp / Sparks Rd / F3 SB On ramp / Sparks Rd	Priority			3	I-5-3	L	422	46	468	222	24	246	473	249		
6	I-6	F3 SB Off ramp / Sparks Rd / F3 SB On ramp / Sparks Rd	Priority	East	Sparks Rd	4	I-5-4	R			0	0	0	0	--	--		
6	I-6	F3 SB Off ramp / Sparks Rd / F3 SB On ramp / Sparks Rd	Priority			5	I-5-5	T	649	88	737	341	46	387	718	377		
6	I-6	F3 SB Off ramp / Sparks Rd / F3 SB On ramp / Sparks Rd	Priority			6	I											

Index	ID	Intersection	Control	Approach	Road	Movement	Movement ID					2013 Counts/			2013 Modelled	
									PM2HR	PM1HR	PM2HR	AM1HR				
									LV	HV	Total	LV	HV	Total	Total	Total
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout	North	Woodbury Park Drive	1	I-1-1	R	117	0	117	60	0	60	112	57
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			2	I-1-2	T	97	0	97	49	0	49	105	53
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			3	I-1-3	L	95	9	104	48	5	53	101	51
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout	East	Wyong Rd	4	I-1-4	R	149	8	157	76	4	80	139	71
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			5	I-1-5	T	1,715	66	1,781	873	34	907	1771	902
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			6	I-1-6	L	232	0	232	118	0	118	238	121
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout	South	Tonkins St	7	I-1-7	R	264	2	266	134	1	135	249	127
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			8	I-1-8	T	150	1	151	76	1	77	172	88
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Priority			9	I-1-9	L	570	3	573	290	2	292	575	293
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout	West	Wyong Rd	10	I-1-10	R	498	2	500	254	1	255	504	257
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			11	I-1-11	T	1,378	138	1,516	702	70	772	1523	775
1	I-1	Woodbury Park Drive / Wyong Rd / Tonkins St / Wyong Rd	Roundabout			12	I-1-12	L	175	1	176	89	1	90	159	81
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout	North	F3 SB Off ramp	1	I-2-1	R	36	7	43	18	4	22	37	19
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout			2	I-2-2	T			0	0	0	0	0	0
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Priority			3	I-2-3	L	991	74	1,065	505	38	542	1069	544
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout	East	Wyong Rd	4	I-2-4	R			0	0	0	0	--	--
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout			5	I-2-5	T	1,562	37	1,599	795	19	814	1558	793
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Priority			6	I-2-6	L	840	32	872	428	16	444	894	455
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout	South	F3 SB On ramp	7	I-2-7	R			0	0	0	0	--	--
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout			8	I-2-8	T			0	0	0	0	--	--
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout			9	I-2-9	L			0	0	0	0	--	--
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout	West	Wyong Rd	10	I-2-10	R	232	3	235	118	2	120	247	126
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout			11	I-2-11	T	1,060	67	1,127	540	34	574	1123	572
2	I-2	F3 SB Off ramp / Wyong Rd / F3 SB On ramp / Wyong Rd	Roundabout			12	I-2-12	L			0	0	0	0	--	--
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised	North	--	1	I-3-1	R			0	0	0	0	--	--
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			2	I-3-2	T			0	0	0	0	--	--
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			3	I-3-3	L			0	0	0	0	--	--
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised	East	Wyong Rd	4	I-3-4	R			0	0	0	0	--	--
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			5	I-3-5	T	268	11	279	136	6	142	288	147
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			6	I-3-6	L	1,329	33	1,362	677	17	694	1299	661
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised	South	F3 NB On/Off ramp	7	I-3-7	R	843	59	902	429	30	459	873	445
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			8	I-3-8	T			0	0	0	0	--	--
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			9	I-3-9	L	232	12	244	118	6	124	266	135
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised	West	Wyong Rd	10	I-3-10	R	41	1	42	21	1	21	34	17
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			11	I-3-11	T	439	11	450	224	6	229	489	249
3	I-3	-- / Wyong Rd / F3 NB On/Off ramp / Wyong Rd	Signalised			12	I-3-12	L			0	0	0	0	--	--
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority	North	Hue Hue Rd	1	I-4-1	R			0	0	0	0	--	--
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			2	I-4-2	T	73	4	77	37	2	39	68	35
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			3	I-4-3	L	130	14	144	66	7	73	159	81
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority	East	Sparks Rd	4	I-4-4	R	194	16	210	99	8	107	204	104
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			5	I-4-5	T			0	0	0	0	--	--
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			6	I-4-6	L	353	25	378	180	13	192	386	197
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority	South	Hue Hue Rd	7	I-4-7	R	433	19	452	220	10	230	444	226
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			8	I-4-8	T	145	3	148	74	2	75	135	69
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			9	I-4-9	L			0	0	0	0	--	--
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority	West	--	10	I-4-10	R			0	0	0	0	--	--
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			11	I-4-11	T			0	0	0	0	--	--
4	I-4	Hue Hue Rd / Sparks Rd / Hue Hue Rd / --	Priority			12	I-4-12	L			0	0	0	0	--	--
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Priority	North	F3 SB On ramp	1	I-5-1	R			0	0	0	0	--	--
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Priority			2	I-5-2	T			0	0	0	0	--	--
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Priority			3	I-5-3	L			0	0	0	0	--	--
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Priority	East	Sparks Rd	4	I-5-4	R	447	32	479	228	16	244	450	229
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Priority			5	I-5-5	T	384	33	417	196	17	212	392	200
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Priority			6	I-5-6	L			0	0	0	0	--	--
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Signalised	South	F3 NB Off ramp	7	I-5-7	R	1,327	55	1,382	676	28	704	1510	769
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Signalised			8	I-5-8	T			0	0	0	0	--	--
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Signalised			9	I-5-9	L	178	8	186	91	4	95	182	93
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Signalised	West	Sparks Rd	10	I-5-10	R			0	0	0	0	--	--
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Signalised			11	I-5-11	T	284	24	308	145	12	157	311	158
5	I-5	F3 SB On ramp / Sparks Rd / F3 NB Off ramp / Sparks Rd	Signalised			12	I-5-12	L	279	9	288	142	5	147	292	149
6	I-6	F3 SB Off ramp / Sparks Rd / F3 SB On ramp / Sparks Rd	Priority	North	F3 SB Off ramp	1	I-5-1	R	188	20	208	96	10	106	200	102
6	I-6	F3 SB Off ramp / Sparks Rd / F3 SB On ramp / Sparks Rd	Priority			2	I-5-2	T			0	0	0	0	--	--
6	I-6	F3 SB Off ramp / Sparks Rd / F3 SB On ramp / Sparks Rd	Priority			3	I-5-3	L	471	52	523	240	26	266	529	269
6	I-6	F3 SB Off ramp / Sparks Rd / F3 SB On ramp / Sparks Rd	Priority	East	Sparks Rd	4	I-5-4	R			0	0	0	0	--	--
6	I-6	F3 SB Off ramp / Sparks Rd / F3 SB On ramp / Sparks Rd	Priority			5	I-5-5	T	643	45						

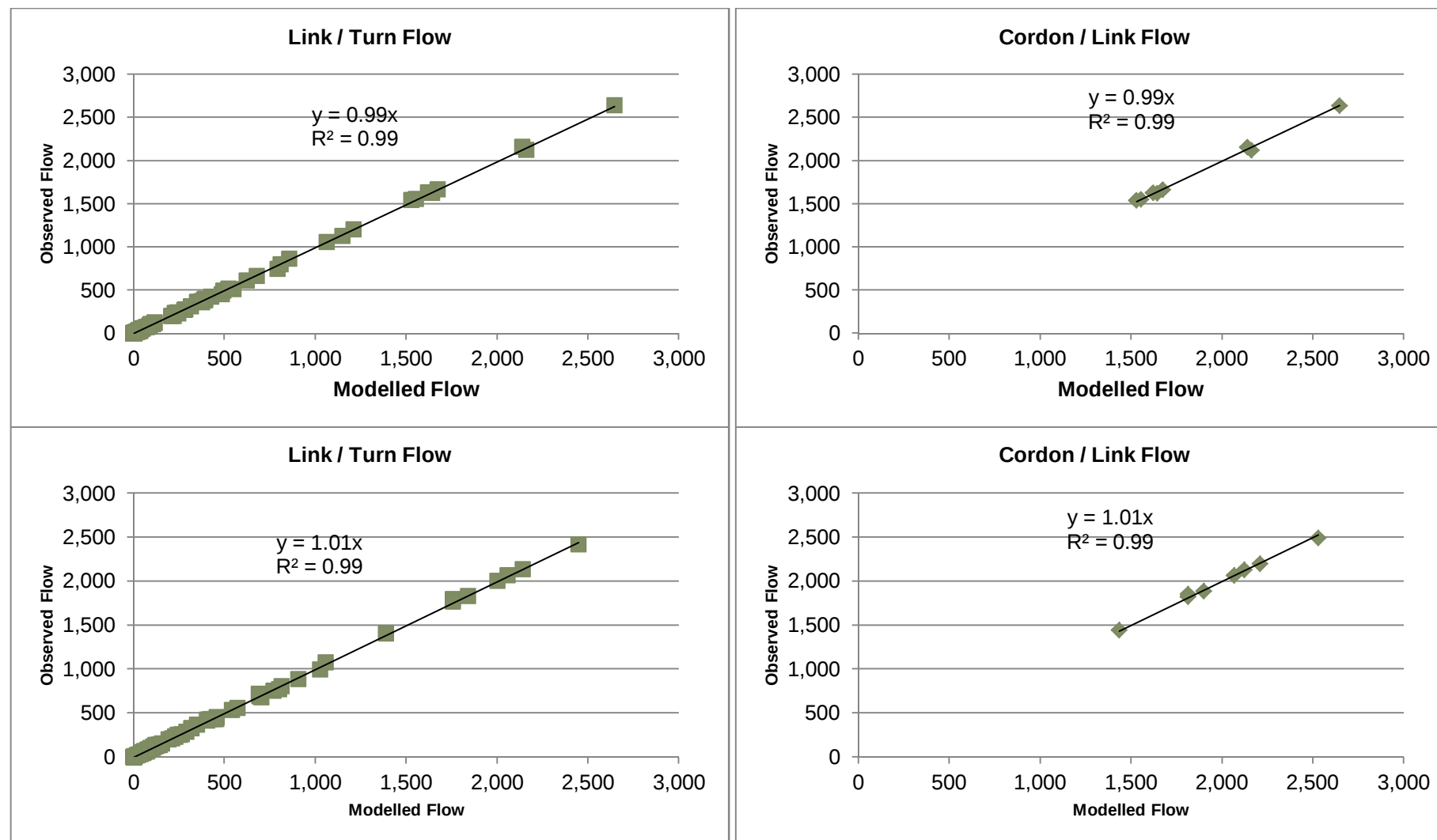


Figure C2.3 AM and PM peak calibration plots

C2.2.1 Queue calibration

Counting or calculating queue lengths is a subjective exercise since queued vehicles are often still moving slowly and it is not always clear what criteria should be used to constitute a queue. Also, since data is likely to be collected by a number of surveyors it is unlikely that consistent and accurate reporting is possible across the study area. Additionally, software packages including Paramics calculate queue lengths using different criteria and methodologies which add a further level of complexity.

For this reason Roads and Maritime does not have mandatory statistical guideline criteria for queue length comparison, however it is recommended that queue lengths are appropriately calibrated/validated when the modeller can demonstrate to an appropriate network operations staff member that modelled queue lengths are representative.

In order to calibrate traffic models against the observed queue length, comprehensive queue length observations were made by Parsons Brinckerhoff during AM and PM peak site visits. During the site visits, Parsons Brinckerhoff captured video footage at all major intersections. This footage was used as a means to calibrate against observed queue lengths so that the observed queuing closely matches the queuing observed in the modelling.

During the base model presentation, Roads and Maritime confirmed that queuing observed in the AM and PM peak models were representative of prevailing queuing conditions. The exception was at the Doyalson Link Road southbound entry ramp, where queuing present in the model was identified by Roads and Maritime as not representing existing conditions. This ramp was adjusted to more accurately represent existing conditions.

The summary of the queue length observations are shown in Table C2.2.

Table C2.2 Critical queue observations

Intersection/road section	Weekday AM peak	Weekday PM peak
Hue Hue Road – Sparks Road	No major queuing condition. Up to three vehicles on Hue Hue Road northbound right turn, however does not exceed the provided right turn bay.	No major queuing condition. Up to four vehicles on Hue Hue Road northbound right turn, however does not exceed the provided right turn bay. Up to four vehicles on Sparks Road westbound right turn.
Pacific Motorway northbound - Sparks Road Interchange	No major queuing condition. Up to 10 vehicles on the northbound off ramp , however all clear in one cycle. Up to 12 vehicles on Sparks Road right turn towards Pacific Motorway on ramp with the chance of residual queue to the next cycle, however no queue spill out of the provided turn bay.	No major queuing condition. Up to 10 vehicles on the northbound off ramp, however all clear in one cycle. Up to 12 vehicles on Sparks Road right turn towards Pacific Motorway on ramp with the chance of residual queue to the next cycle, however no queue spill out of the provided turn bay.
Pacific Motorway southbound - Sparks Road Interchange	No major queuing condition. Up to three vehicles on off ramp southbound right turn , however does not exceed the provided right turn bay.	No major queuing condition. Up to three vehicles on off ramp southbound right turn , however does not exceed the provided right turn bay.
Burnet Road – Sparks Road	No major queuing condition. Up to two vehicles on Sparks Road westbound right turn.	No major queuing condition. Up to two vehicles on Sparks Road westbound right turn.
Pacific Motorway northbound – Service Station	No queuing observed when vehicle exit onto the northbound carriageway.	No queuing observed when vehicle exit onto the northbound carriageway.

Intersection/road section	Weekday AM peak	Weekday PM peak
Pacific Motorway southbound – Service Station	No queuing observed when vehicle exit onto the southbound carriageway.	No queuing observed when vehicle exit onto the southbound carriageway.
Pacific Motorway northbound - Wyong Road Interchange	No major queuing condition. Up to six vehicles on the northbound off ramp, however all clear in one cycle.	No major queuing condition. Up to three vehicles on the northbound off ramp, however all clear in one cycle.
Pacific Motorway southbound - Wyong Road Interchange	No major queuing condition. Up to two vehicles on off ramp southbound right turn , however does not exceed the provided right turn bay. Up to three vehicles on Wyong Road westbound lanes.	No major queuing condition. No queuing observed when vehicle exit from the southbound carriageway. Up to five vehicles on Wyong Road westbound lanes.
Wyong Road – Woodbury Park Drive	No major queuing condition. Up to 10 vehicles on Wyong Road westbound lane. Up to three vehicles on Woodbury Park Drive. Up to two vehicles on Tonkiss Street.	No major queuing condition. Up to eight vehicles on Wyong Road westbound lane. Up to two vehicles on Woodbury Park Drive. Up to four vehicles on Tonkiss Street.

C3. Model validation

Model validation is the term used to describe the independent verification process used to demonstrate that a model has been calibrated to a sufficient extent to accurately reproduce on-street conditions.

To validate the Paramics models, observed travel times along the Pacific Motorway, between Wyong Road Interchange and Doyalson Link Road were compared with modelled travel times.

According to the Roads and Maritime Modelling guideline, a scatter graph should be plotted where data points correspond to section traffic volume on the x-axis and section travel time on the y-axis. However in this case, given the availability of travel time data, the mean travel time data was compared against mean modelled travel time. Additionally, the criteria recommended by DMRB were used as it provides more relevant validation criteria for the available travel time data. The DMRB guideline suggests *Greater than 85% of all travel time routes to have modelled travel times within 15%*. Table C3.1 shows the summary of travel time comparisons.

As it can be seen in Table C3.1, the modelled travel time results indicate a good level of validation, with all modelled travel time along Pacific Motorway below 15 % of the observed travel times.

Table C3.1 Travel time validation

Section		Direction	AM peak			PM peak		
From	To		Observed travel time(s)	Modelled travel time(s)	Difference (%)	Observed travel time(s)	Modelled travel time(s)	Difference (%)
Doyalson Link Road Ramp to Pacific Motorway	Ramp to Wyong Road	Southbound	385	425	11%	385	390	2%
Ramp from Wyong Road	Pacific Motorway ramp to Doyalson Link Road	Northbound	380	395	4%	380	400	5%

C4. Calibration and validation summary

The model was presented to Roads and Maritime on 6 June 2013 for review prior to submission of the calibration and validation results. As a result of this presentation some minor adjustments were made to the network layout and also to ensure that queuing reflects existing conditions.

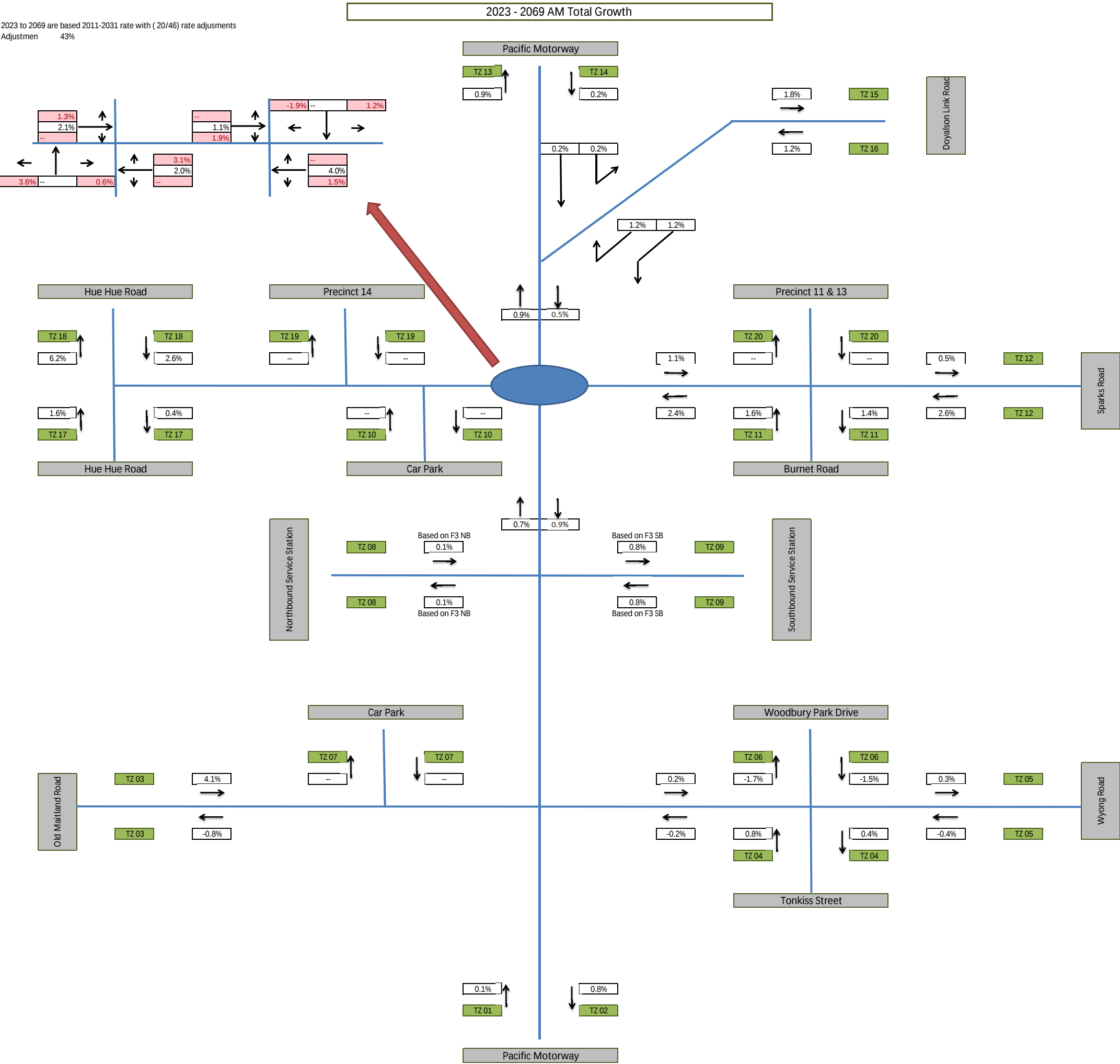
Traffic models for each of the peak periods have been calibrated and validated to the Roads and Maritime standards and industry guidelines. The traffic models are 'fit for purpose' for upgrade option assessments for the Pacific Motorway between Doyalson Link Road and Wyong Road.

Appendix D

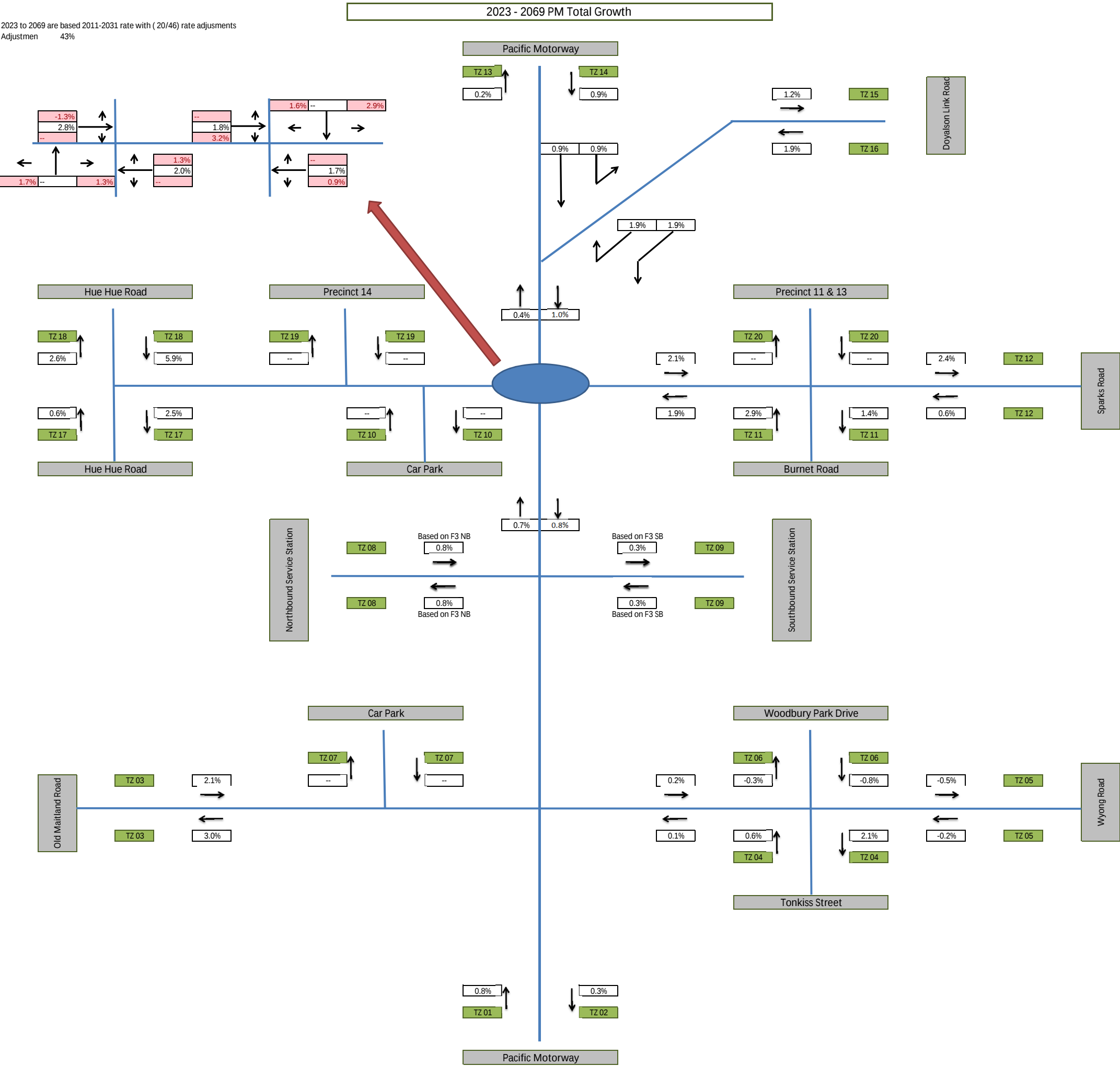
Compound yearly growth rate 2023-2069 (modelled scenario)



2023 to 2069 are based 2011-2031 rate with (20/46) rate adjustments
Adjustmen 43%



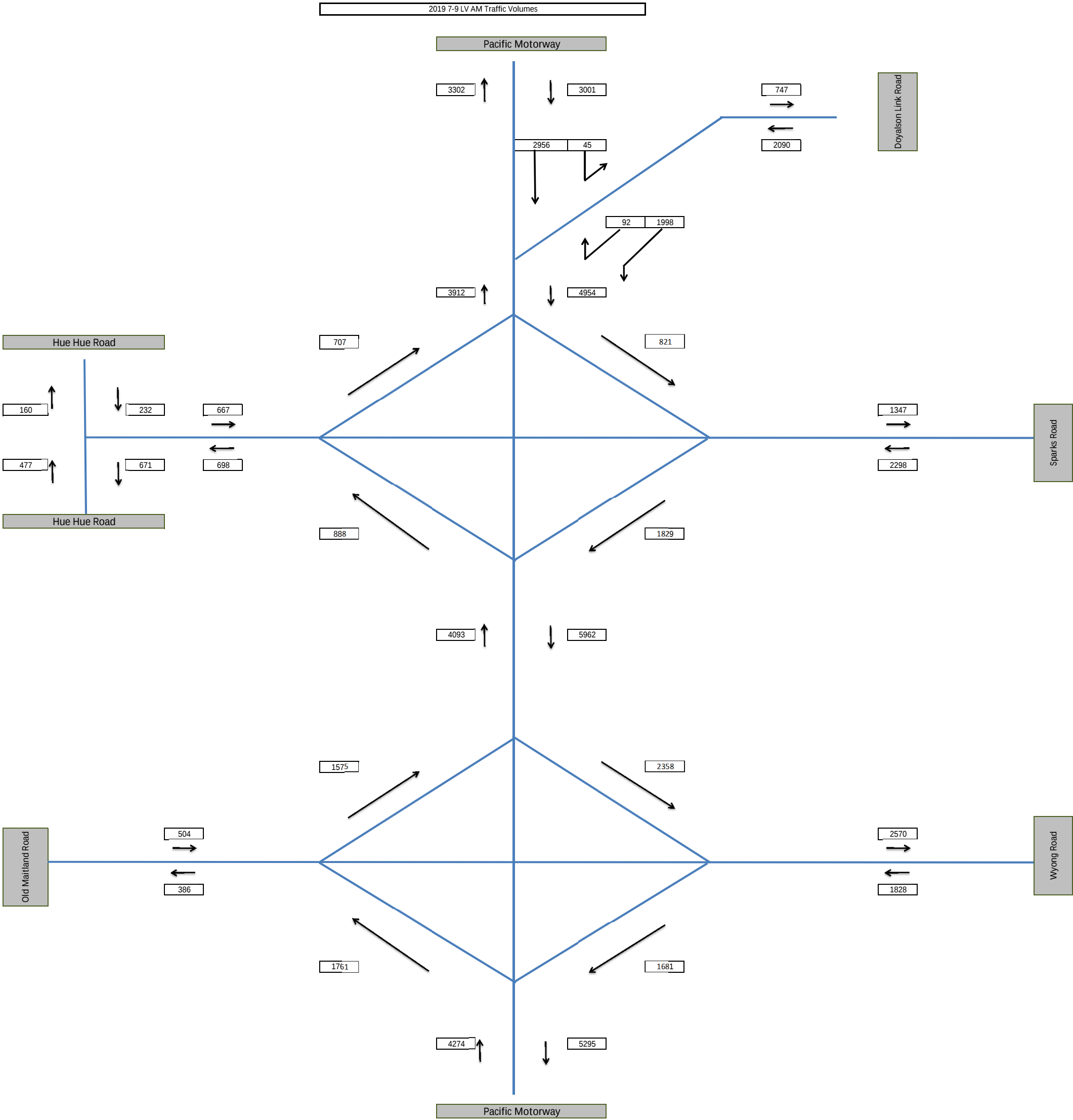
2023 to 2069 are based 2011-2031 rate with (20/46) rate adjustments
Adjustmen 43%



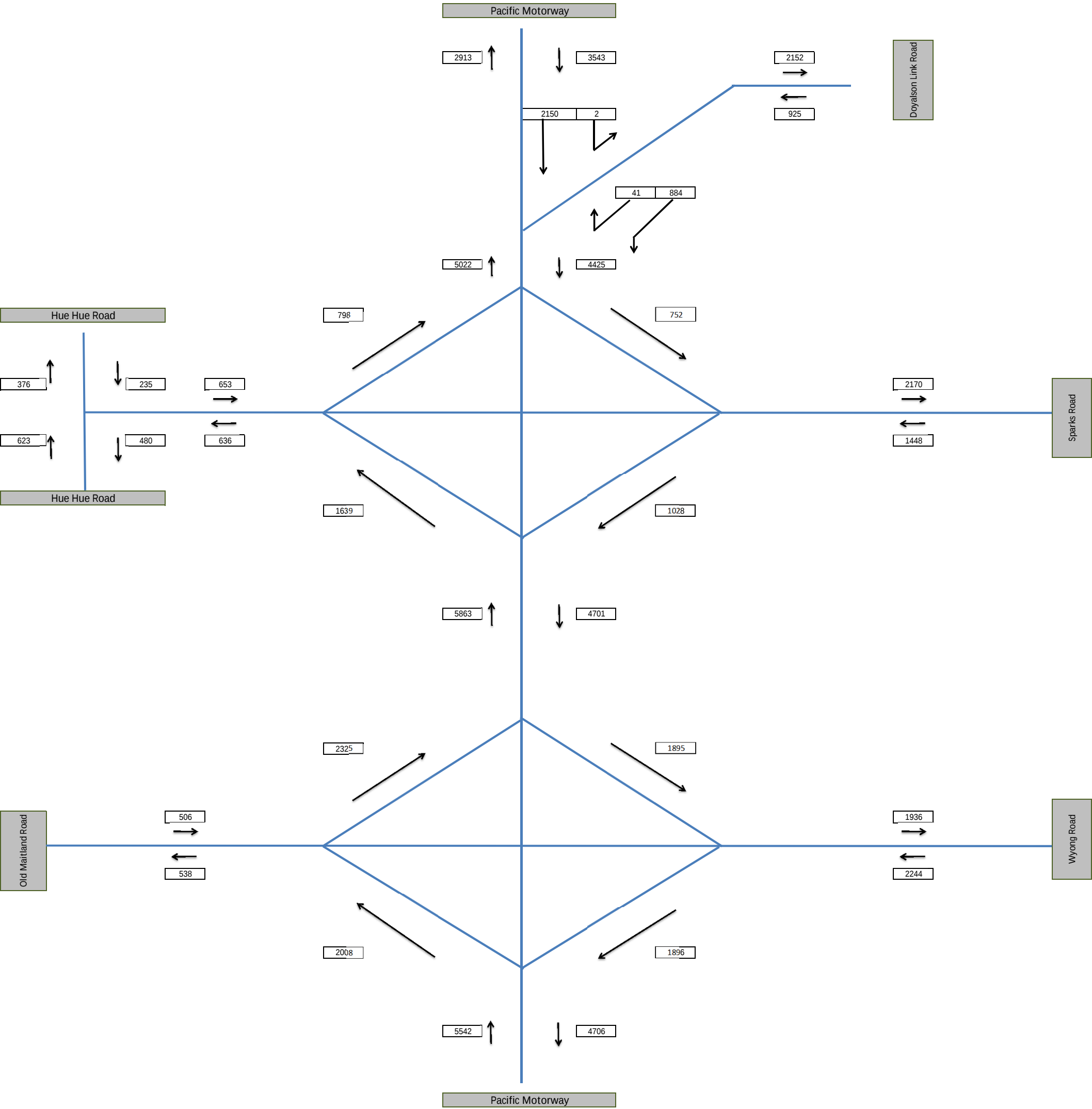
Appendix E

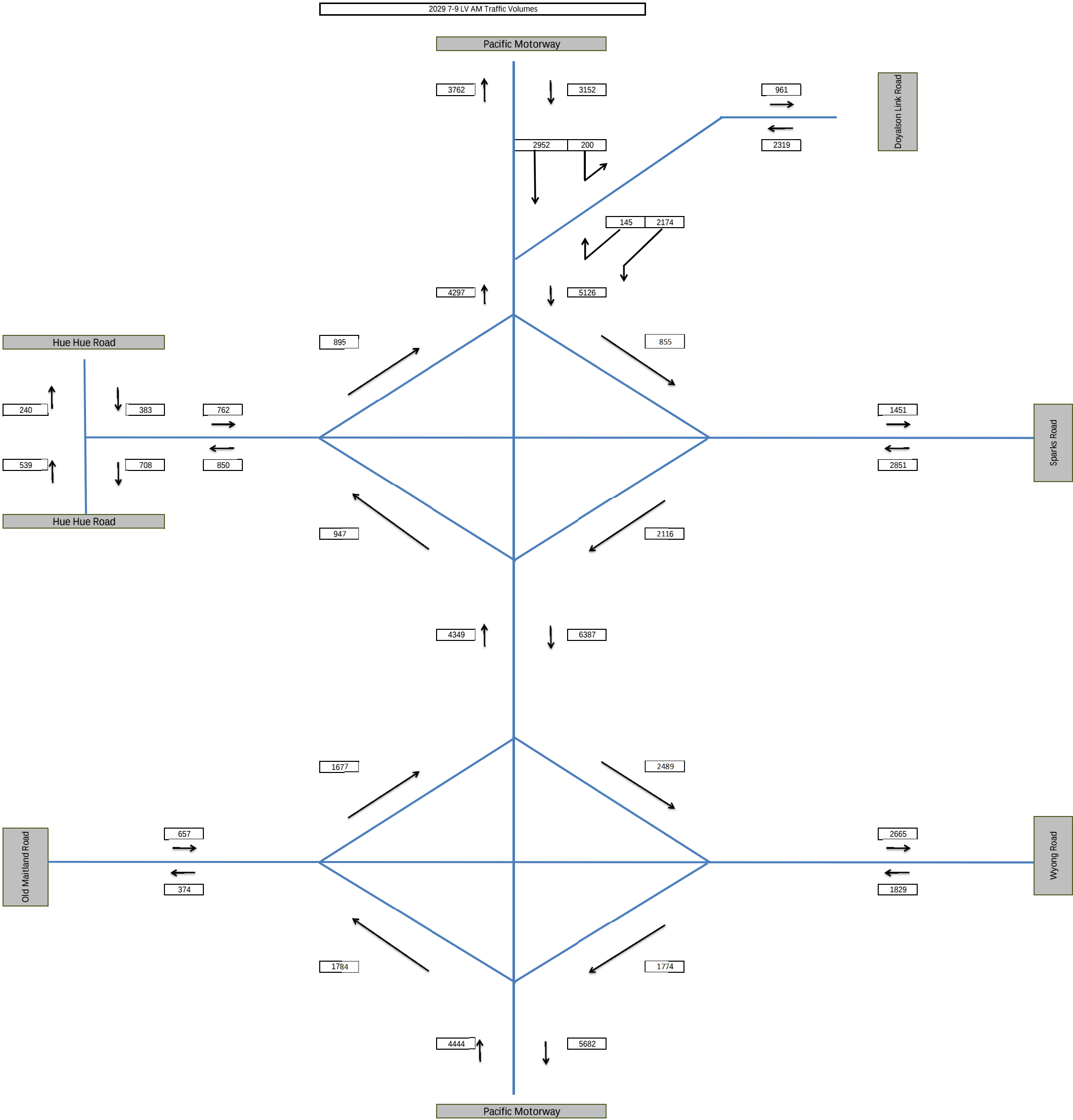
Total forecast traffic volumes (2hr peak total vehicles)



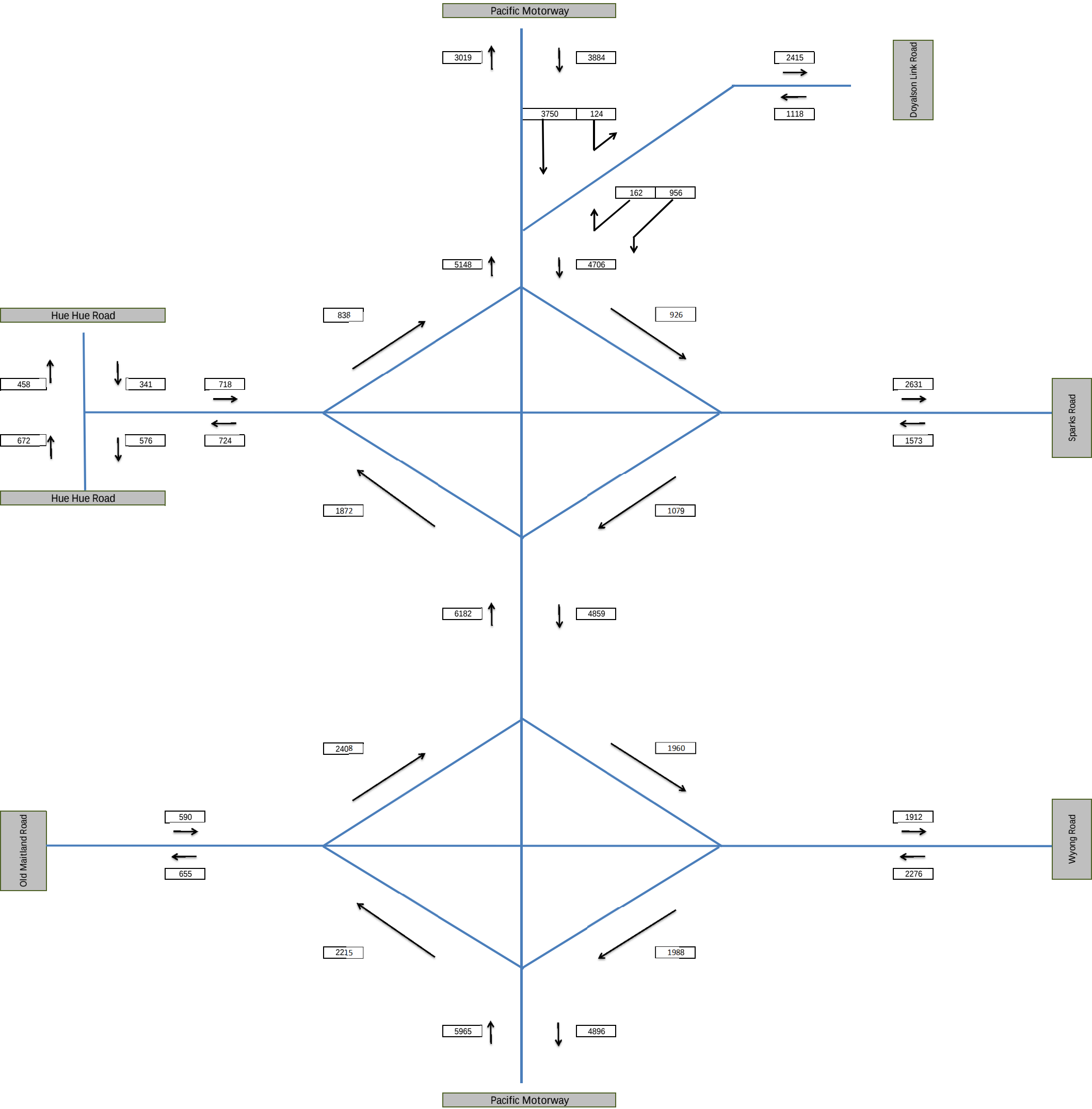


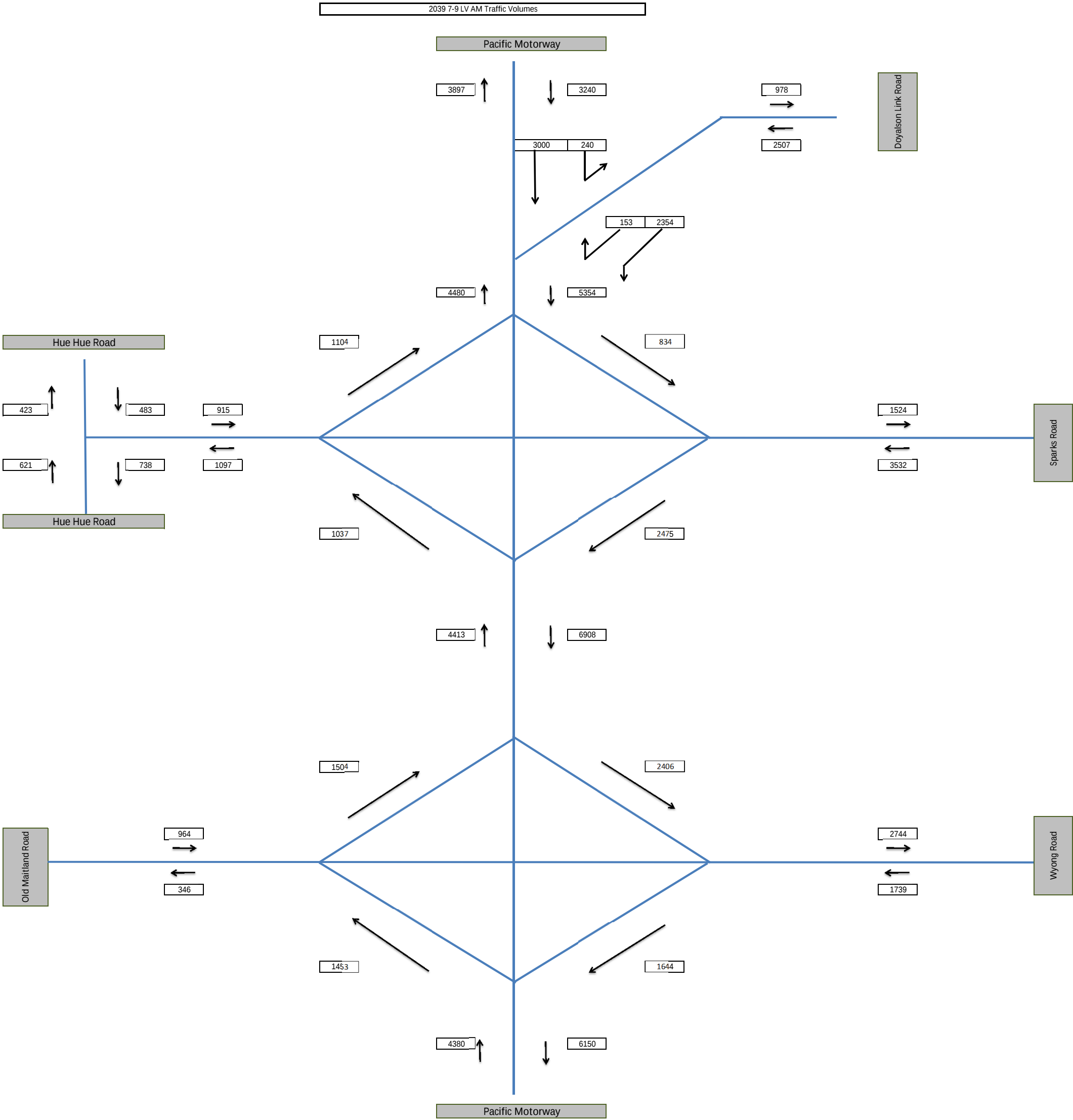
2019 4-6 LV PM Traffic Volumes

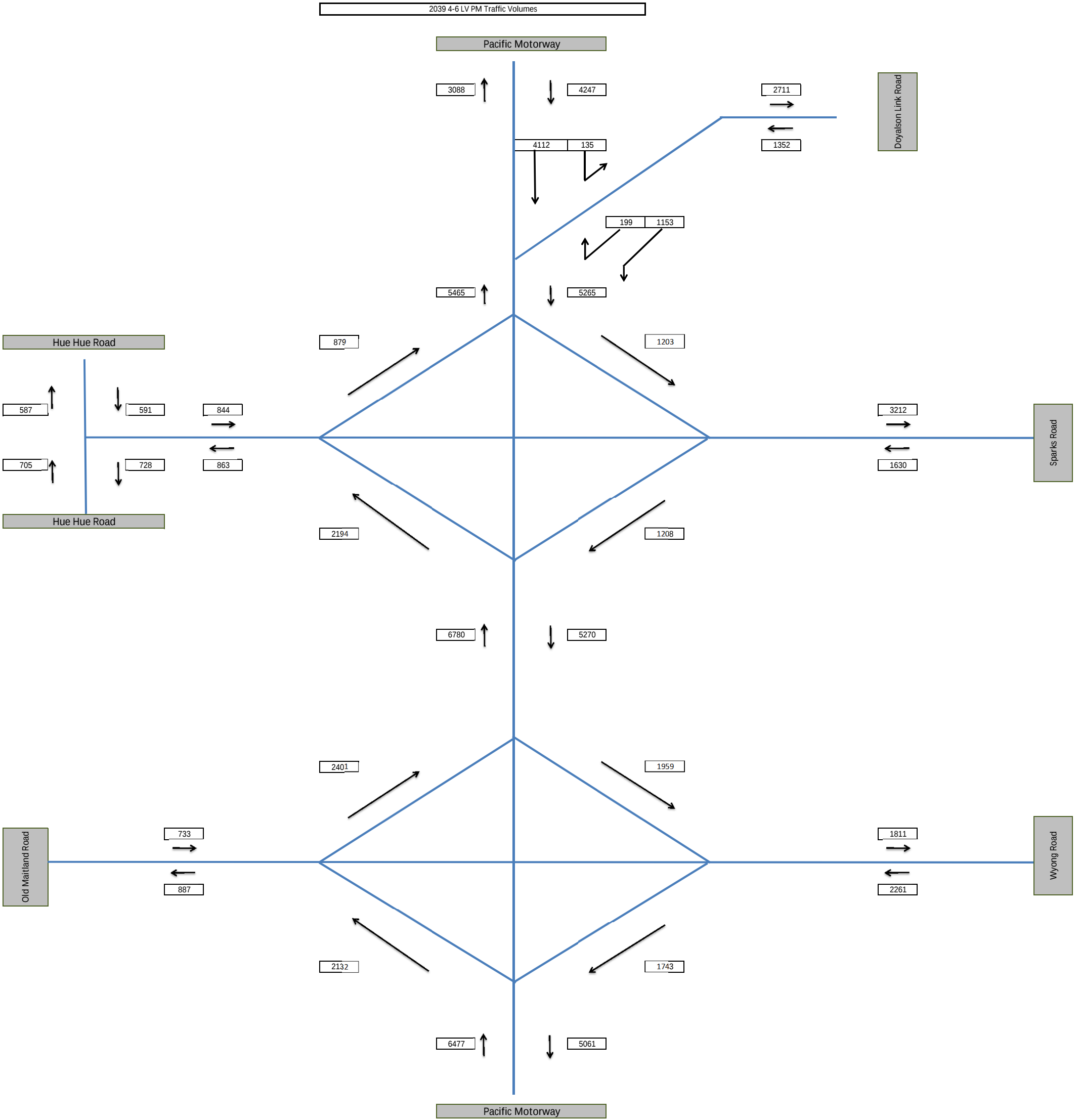


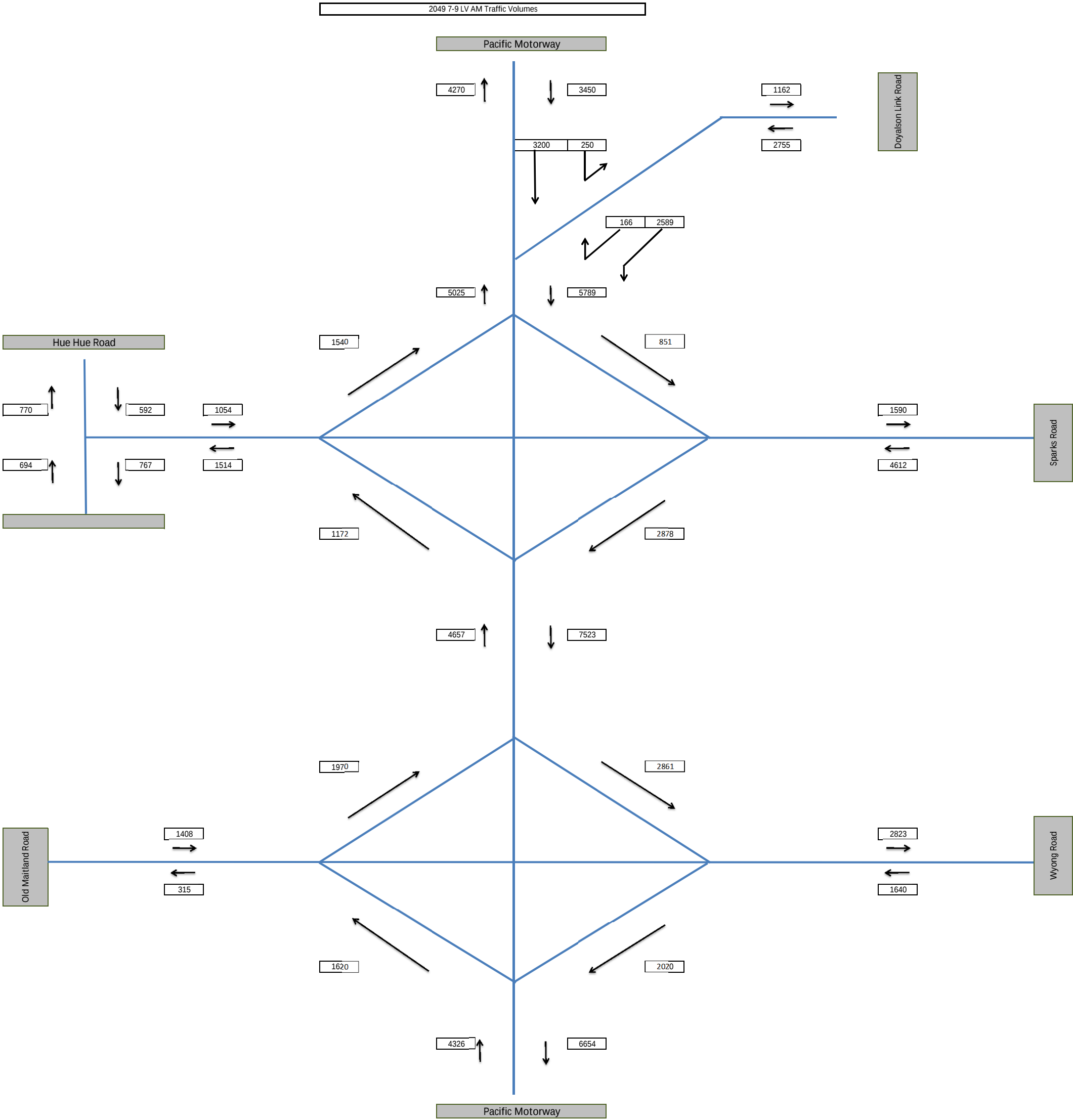


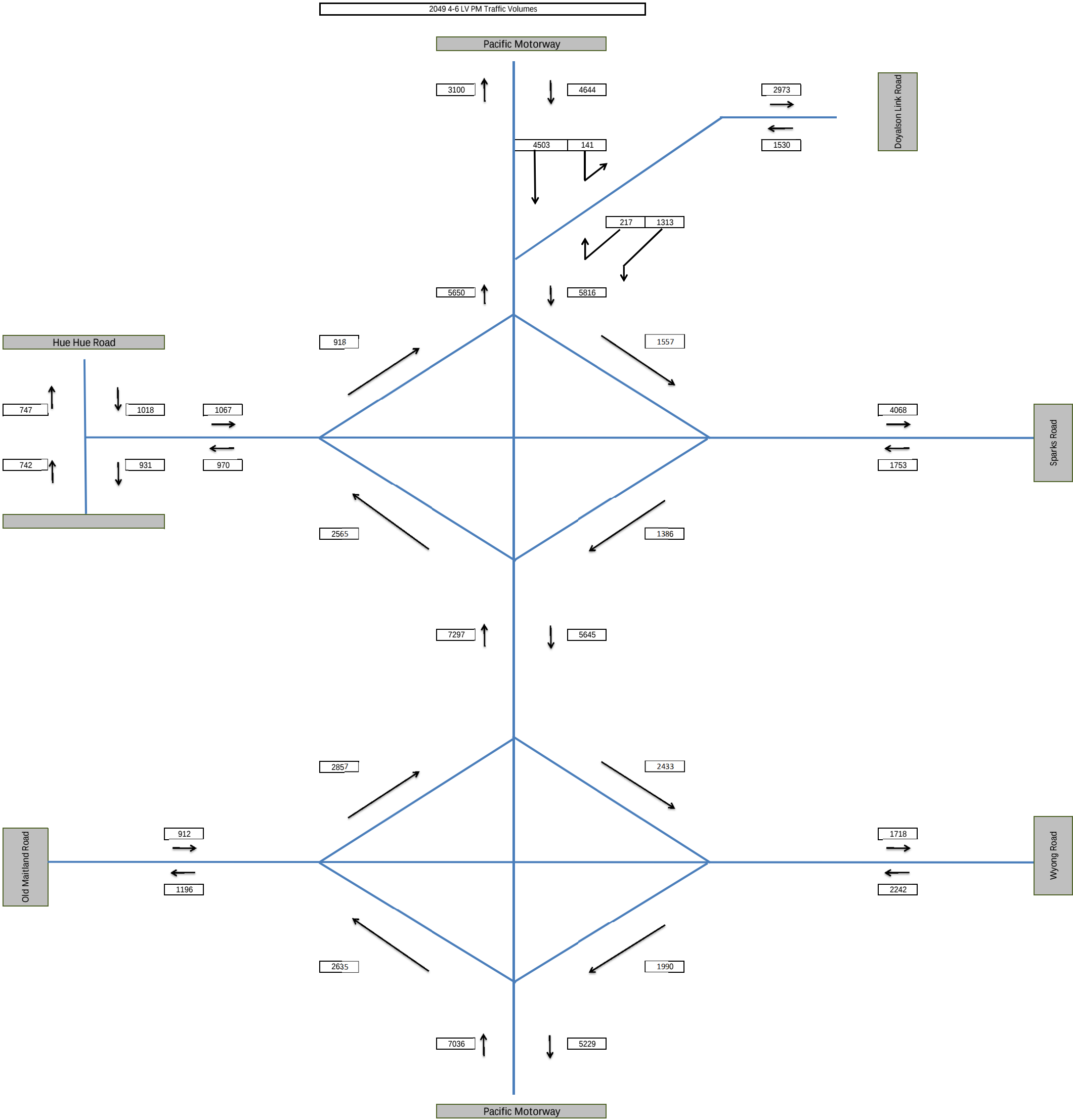
2029 4-6 LV PM Traffic Volumes







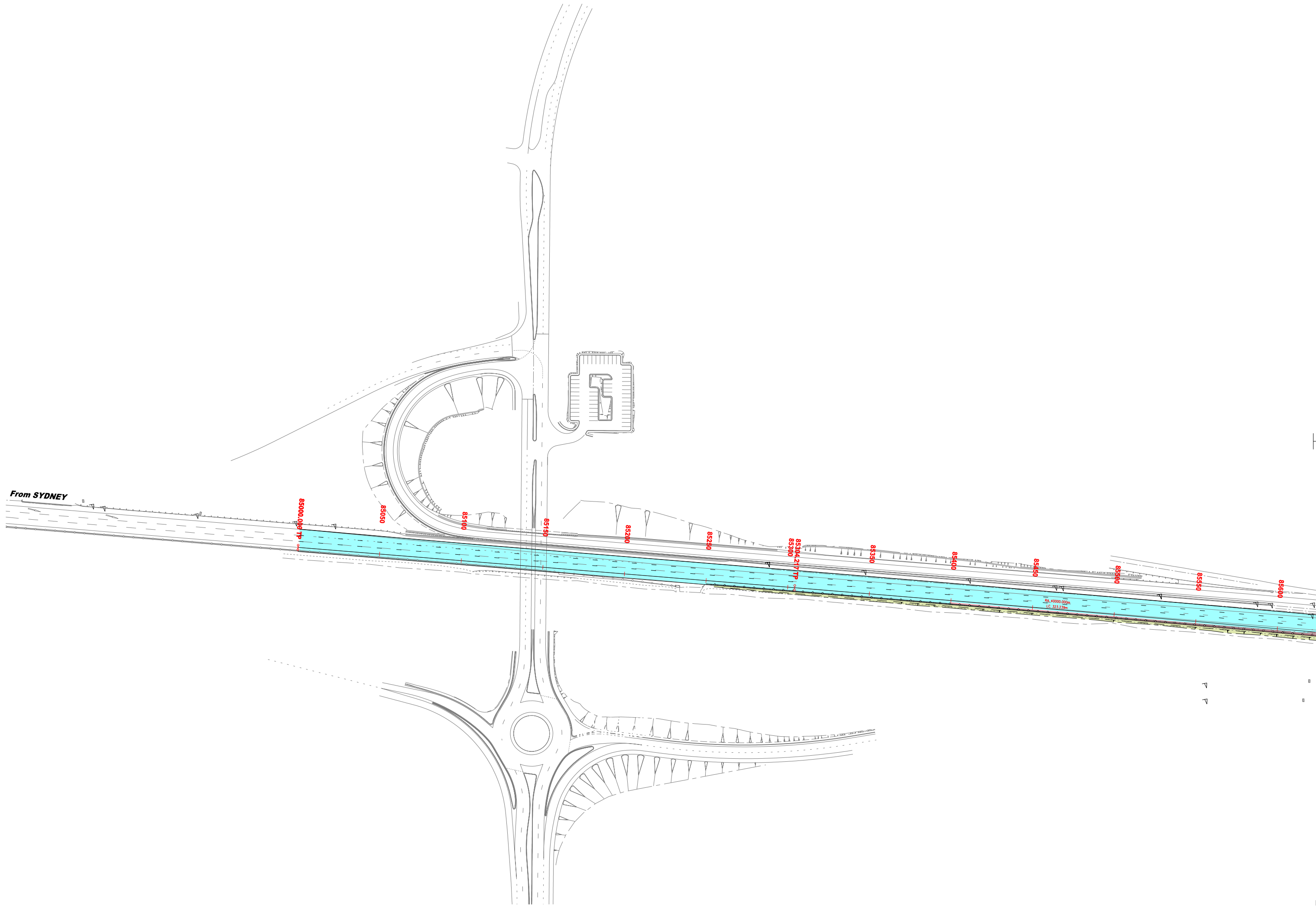


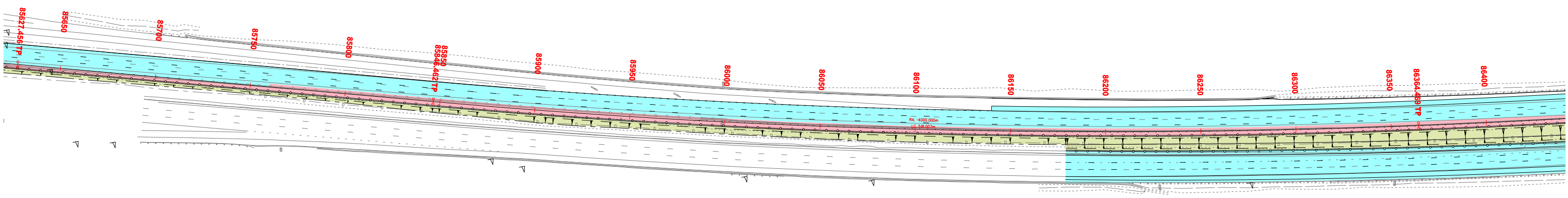


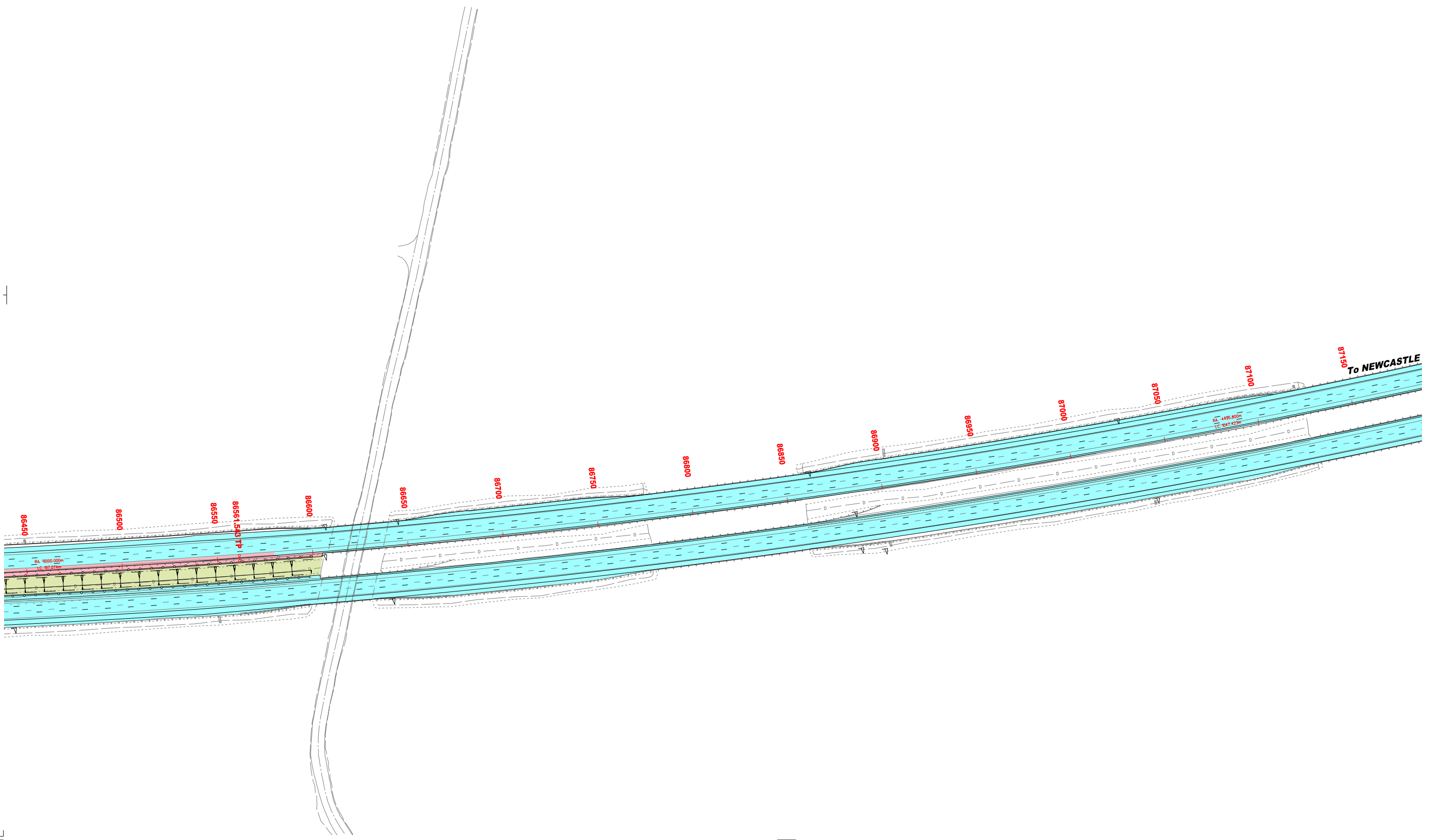
Appendix F

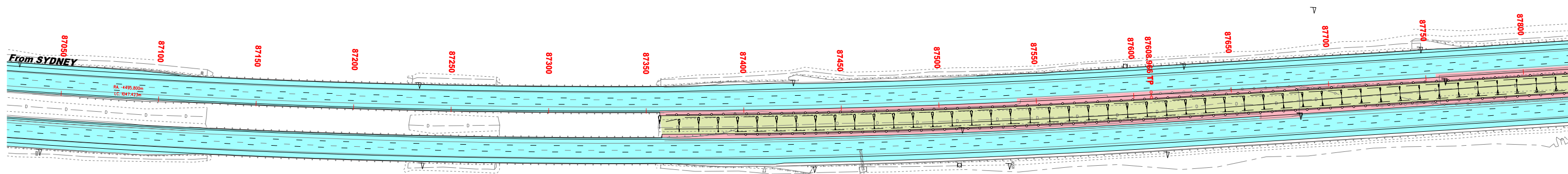
Roads and Maritime concept design

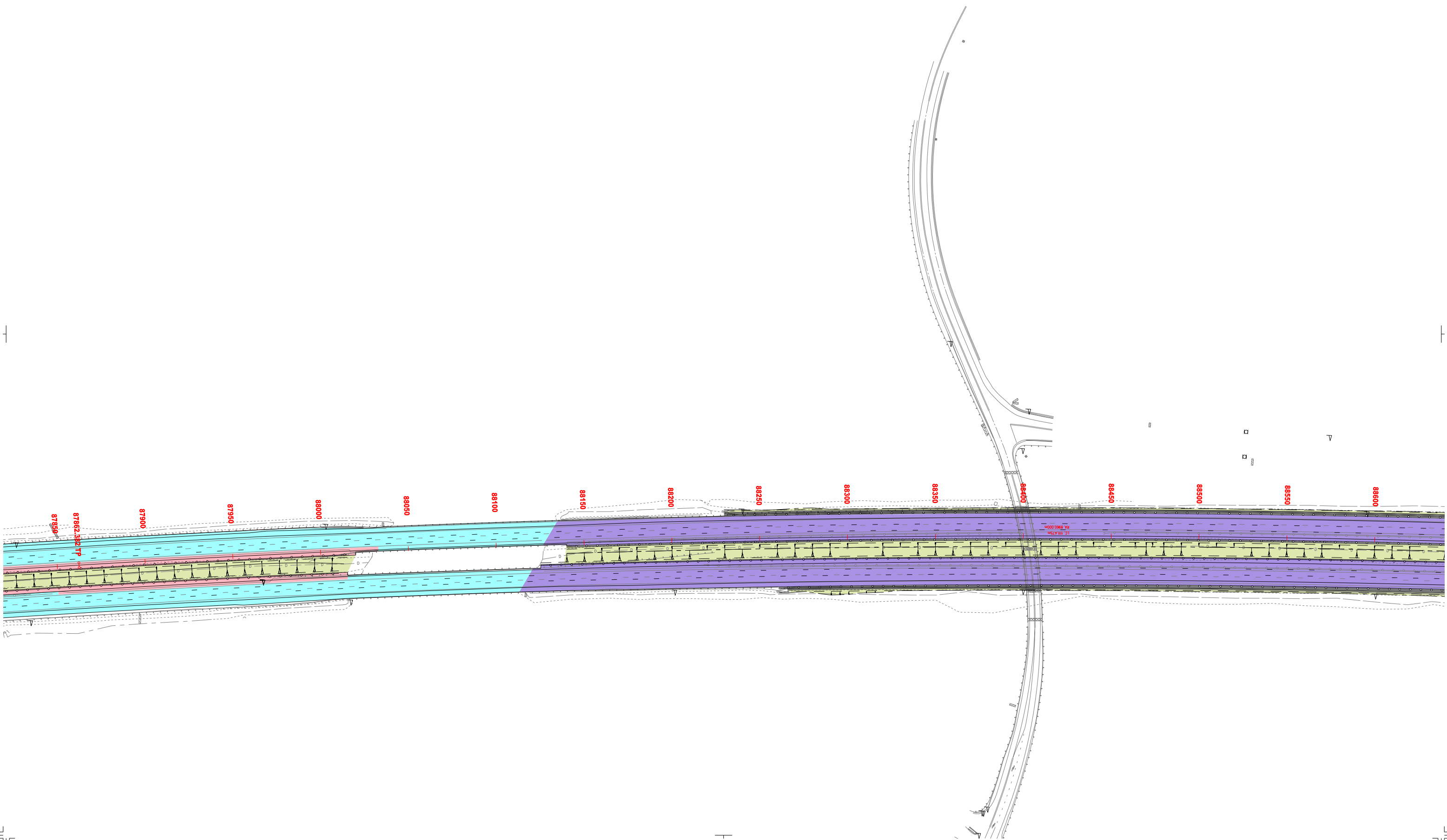


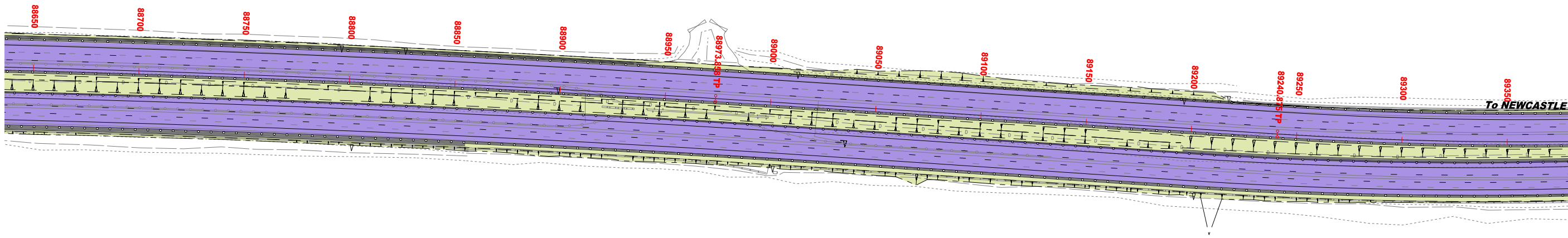


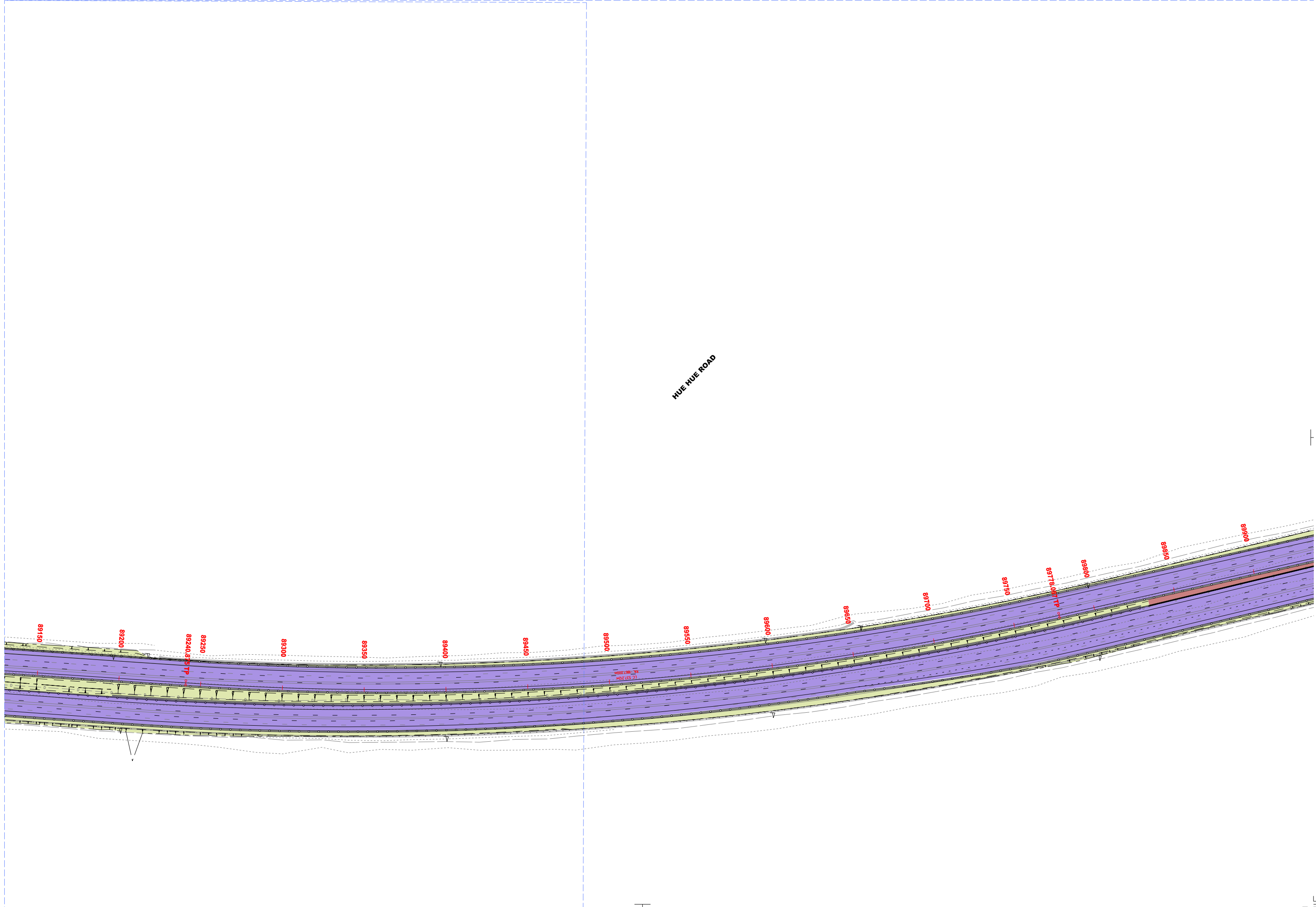


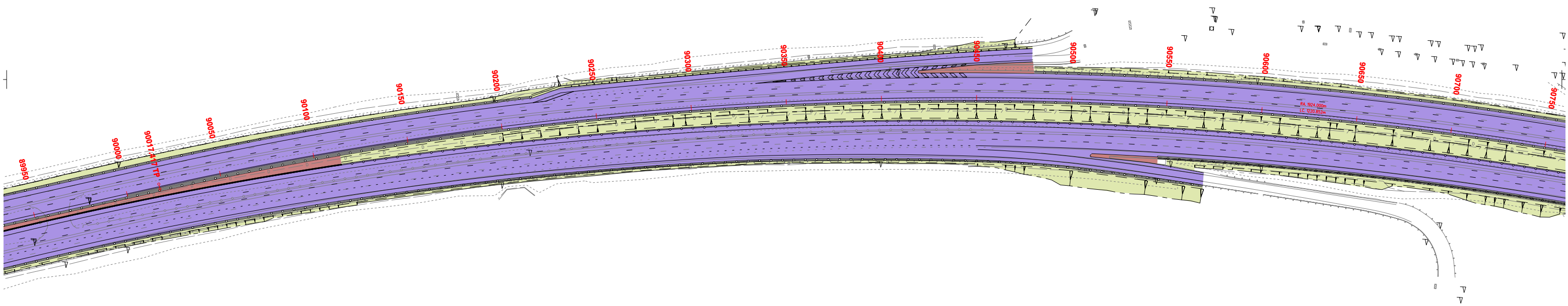


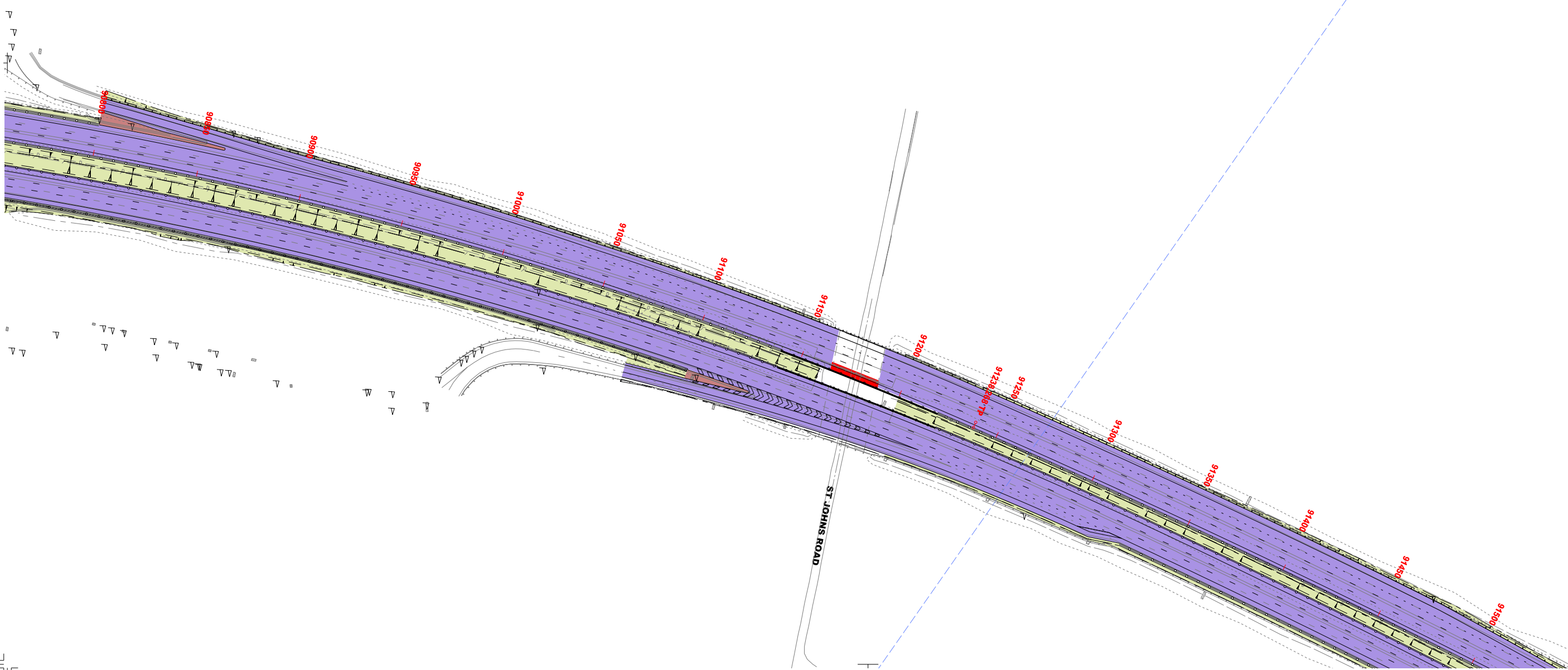


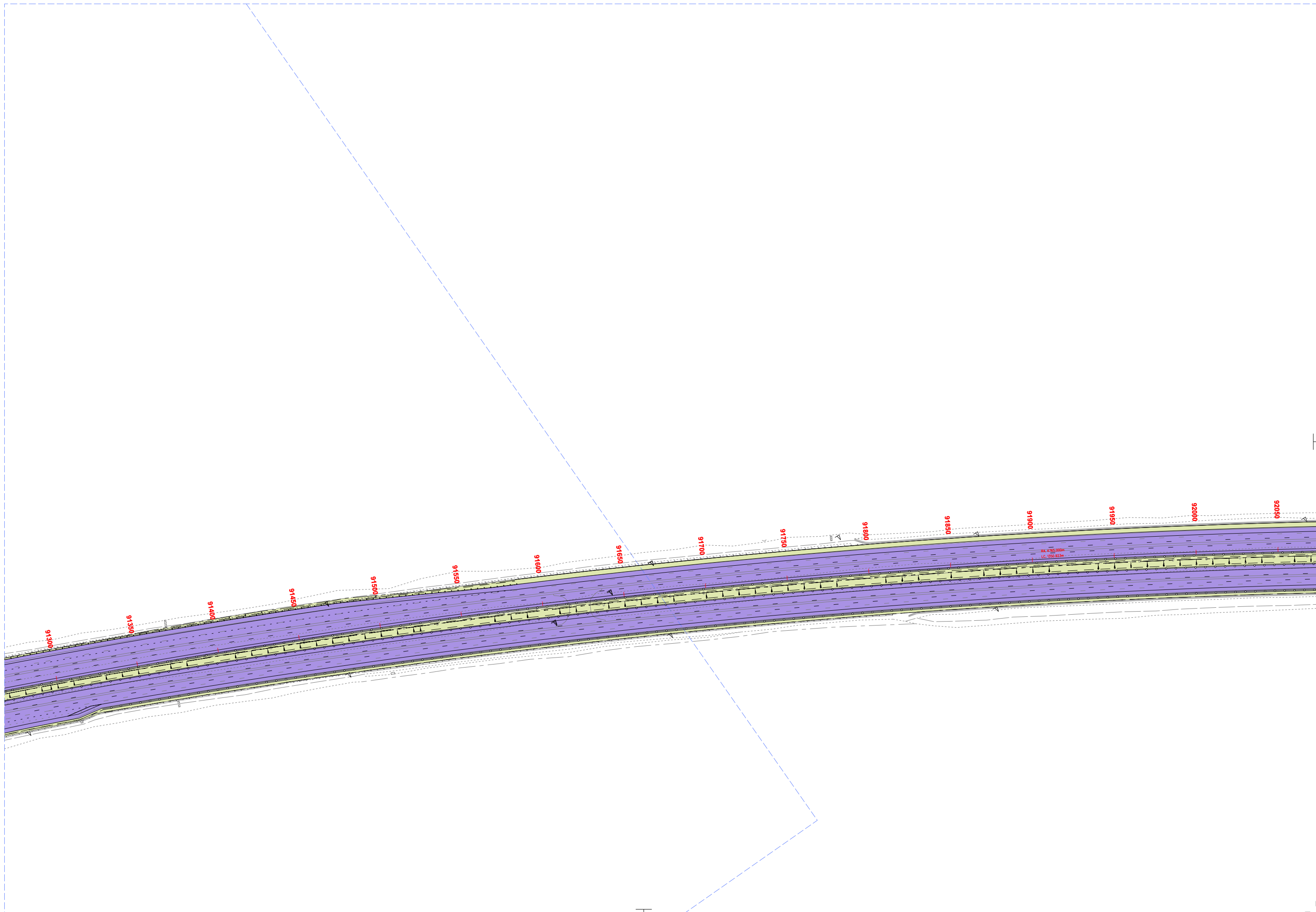


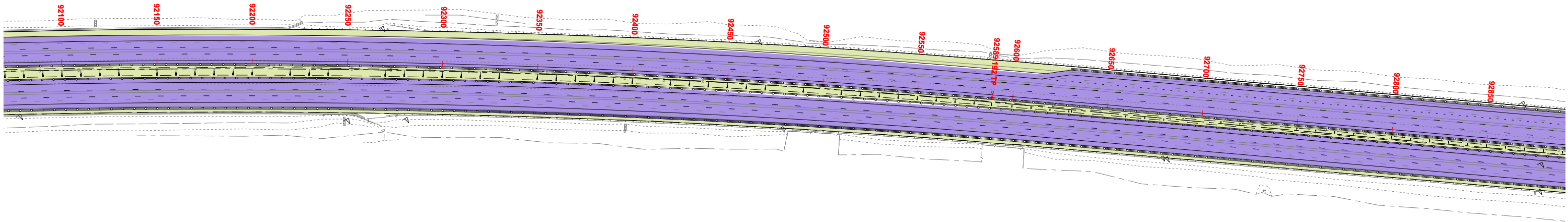


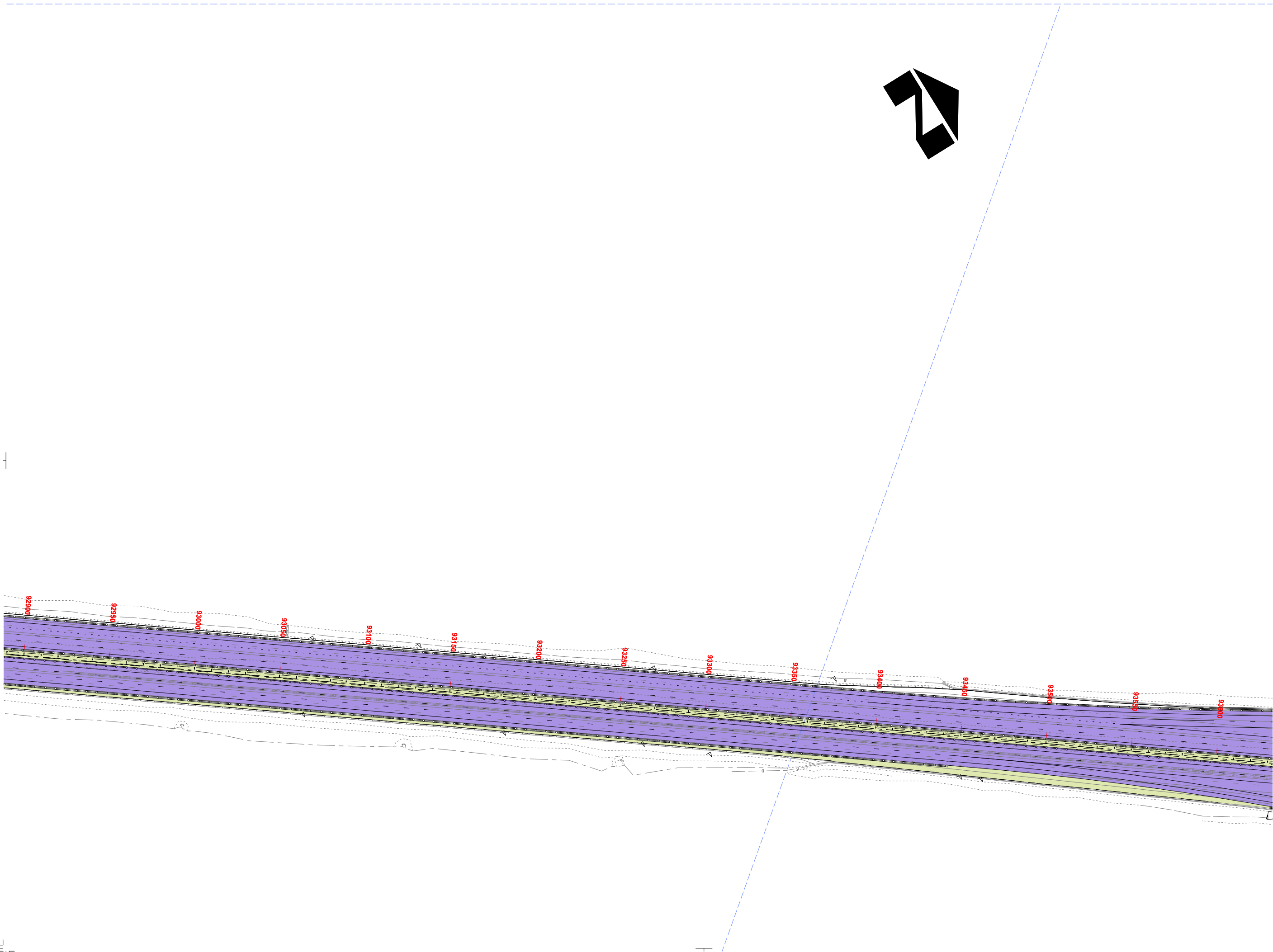


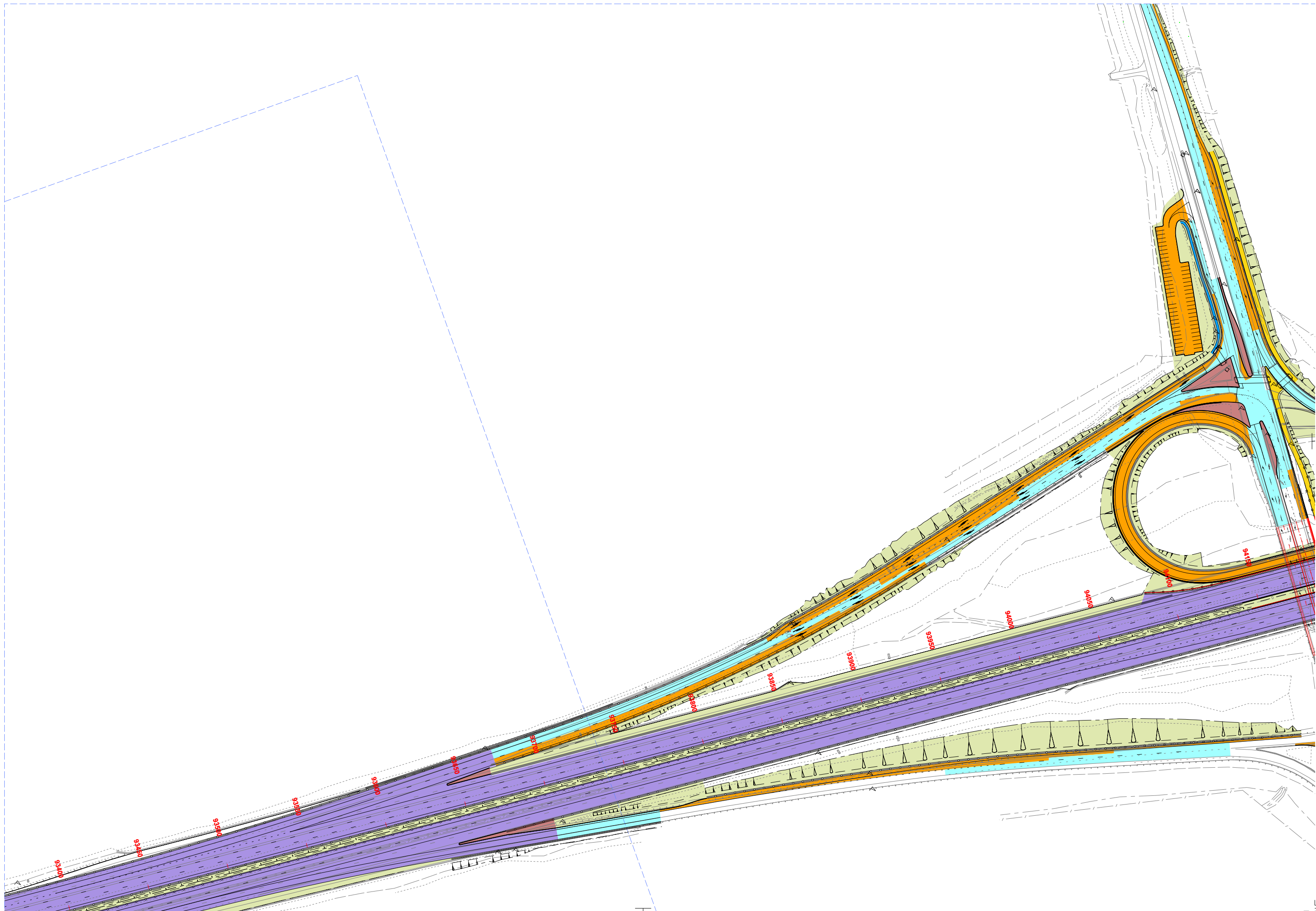


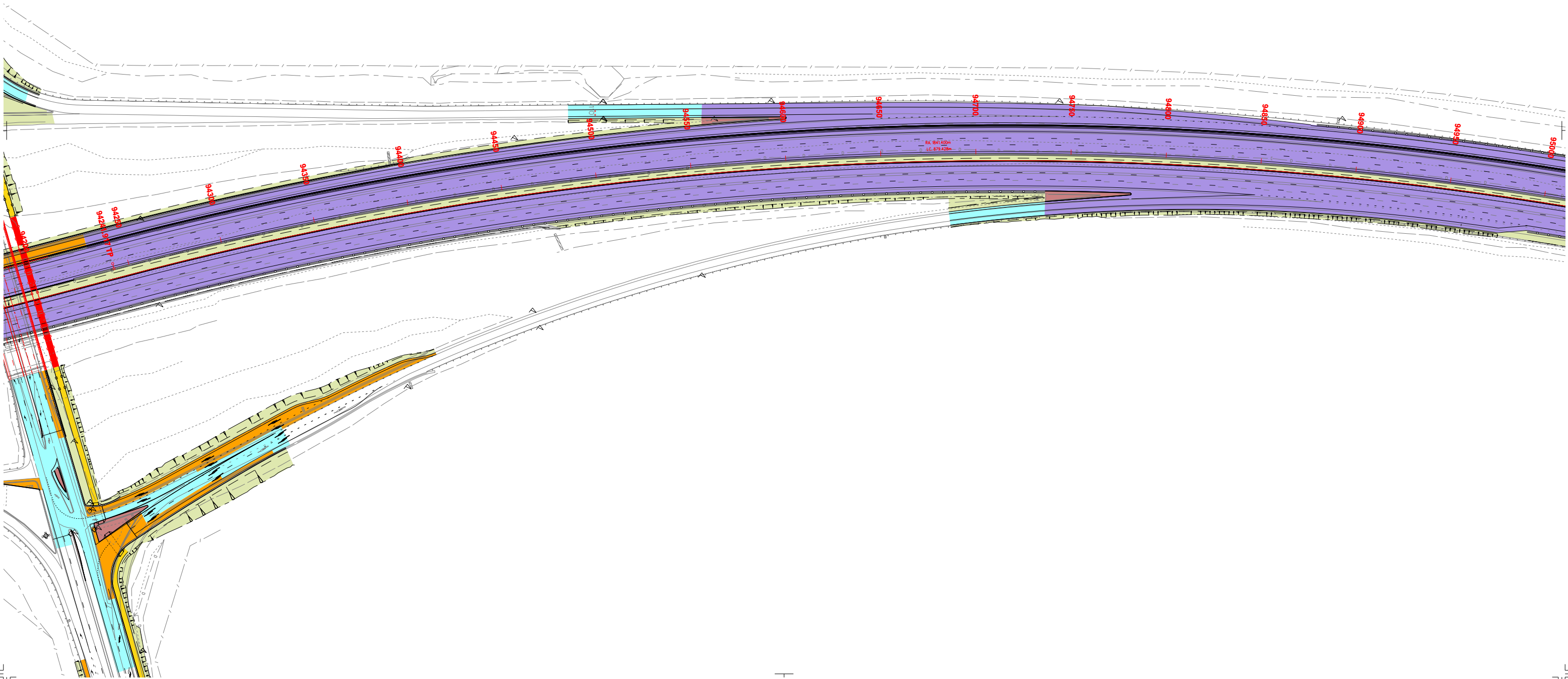


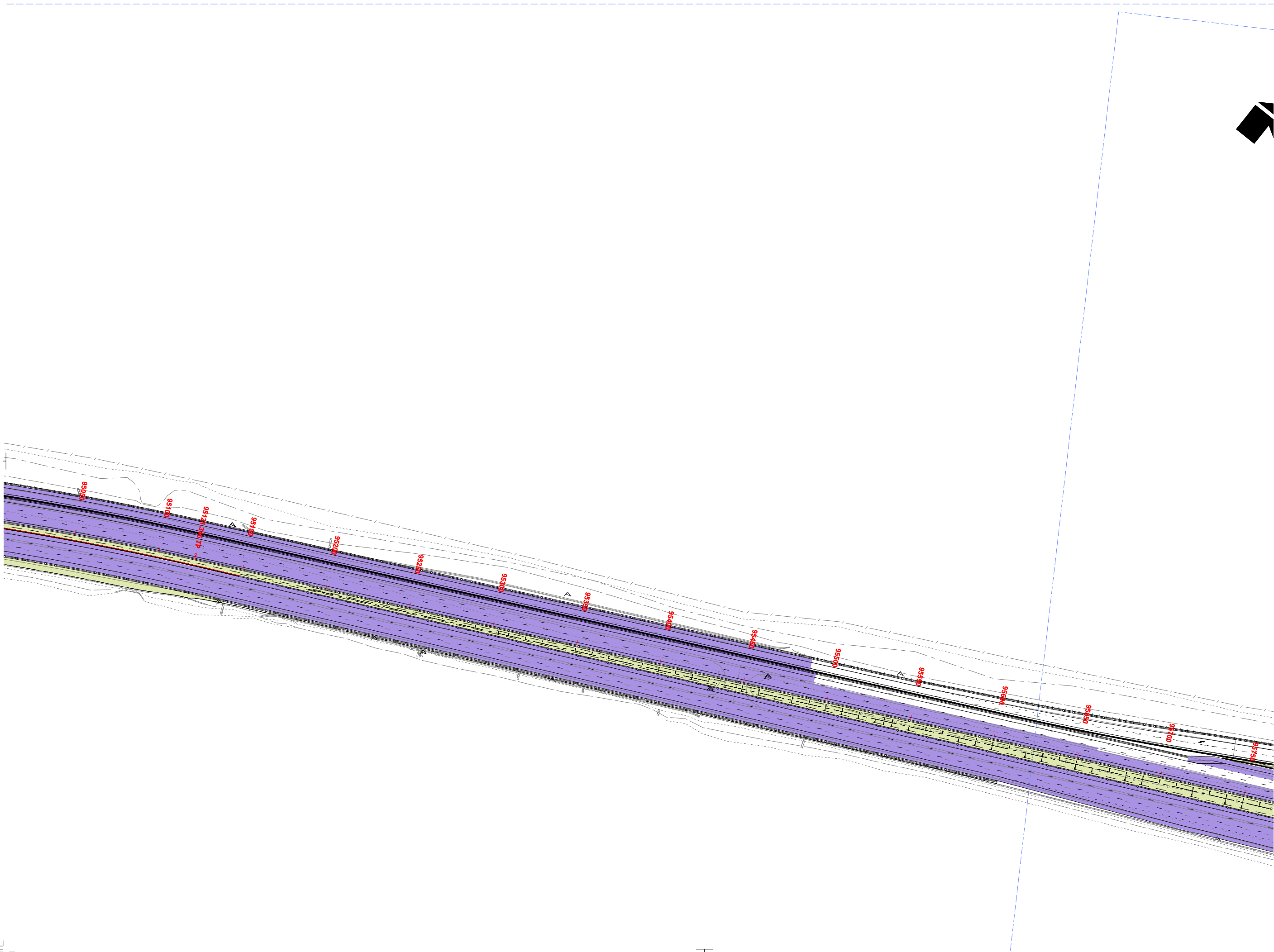


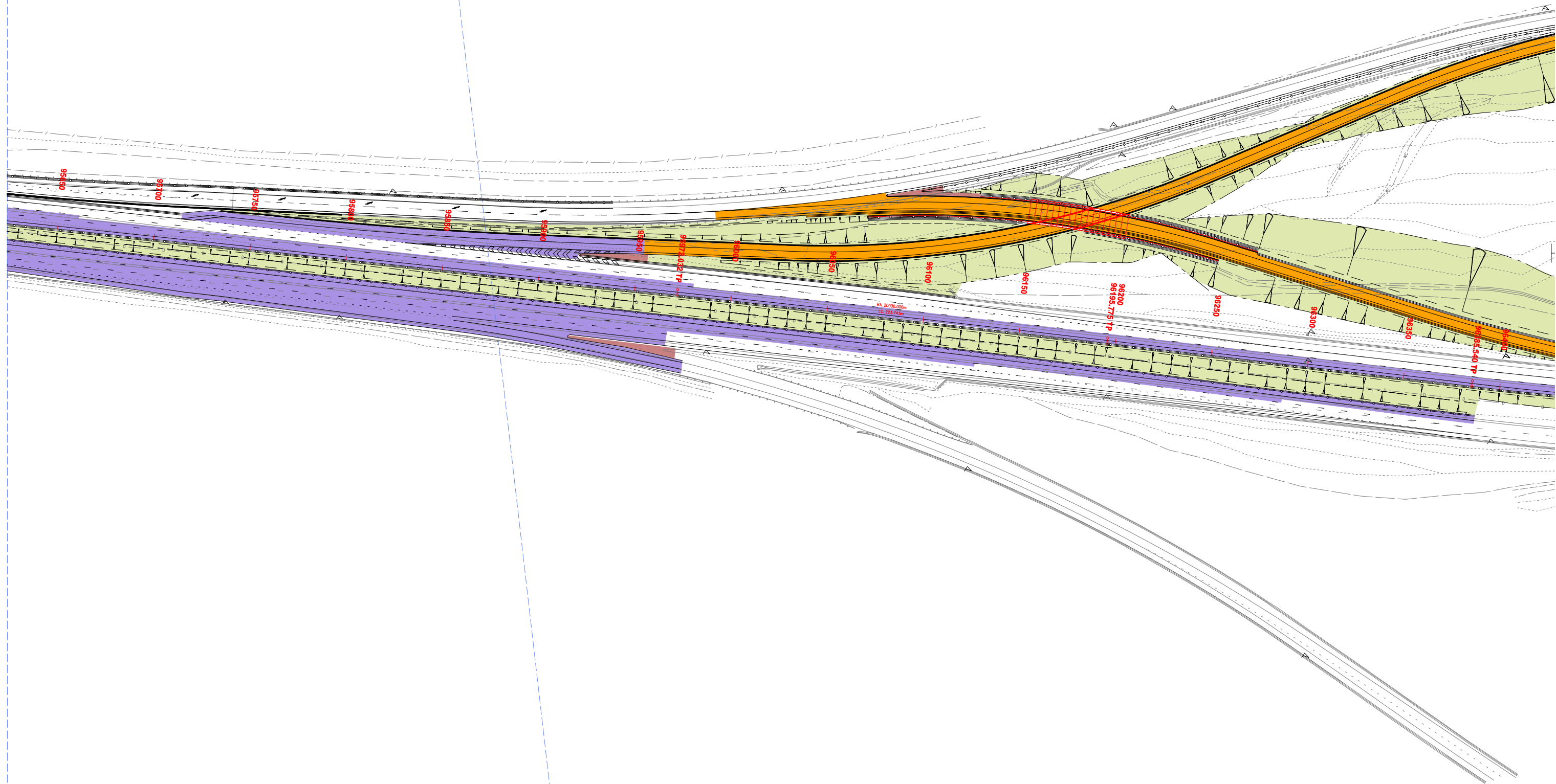


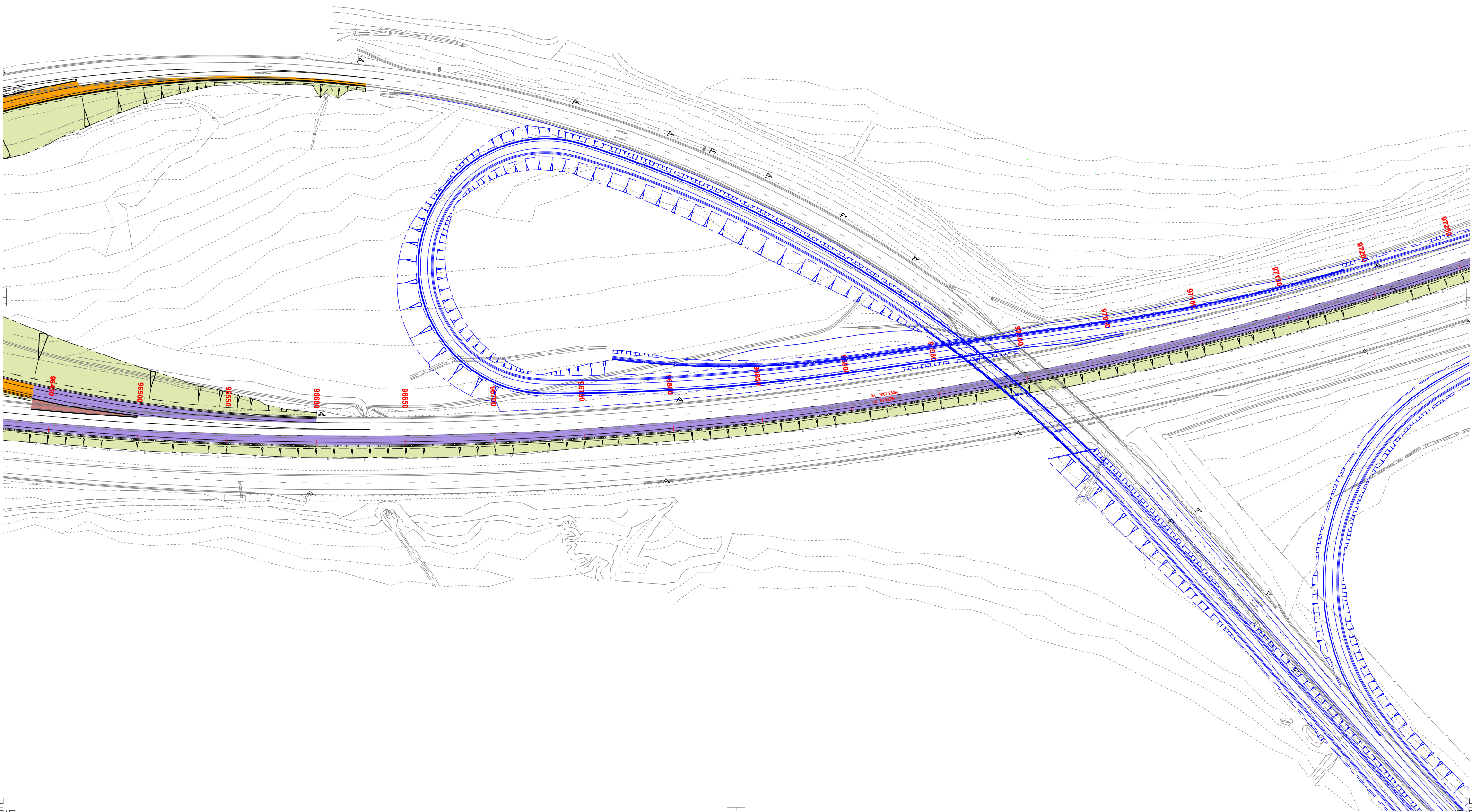


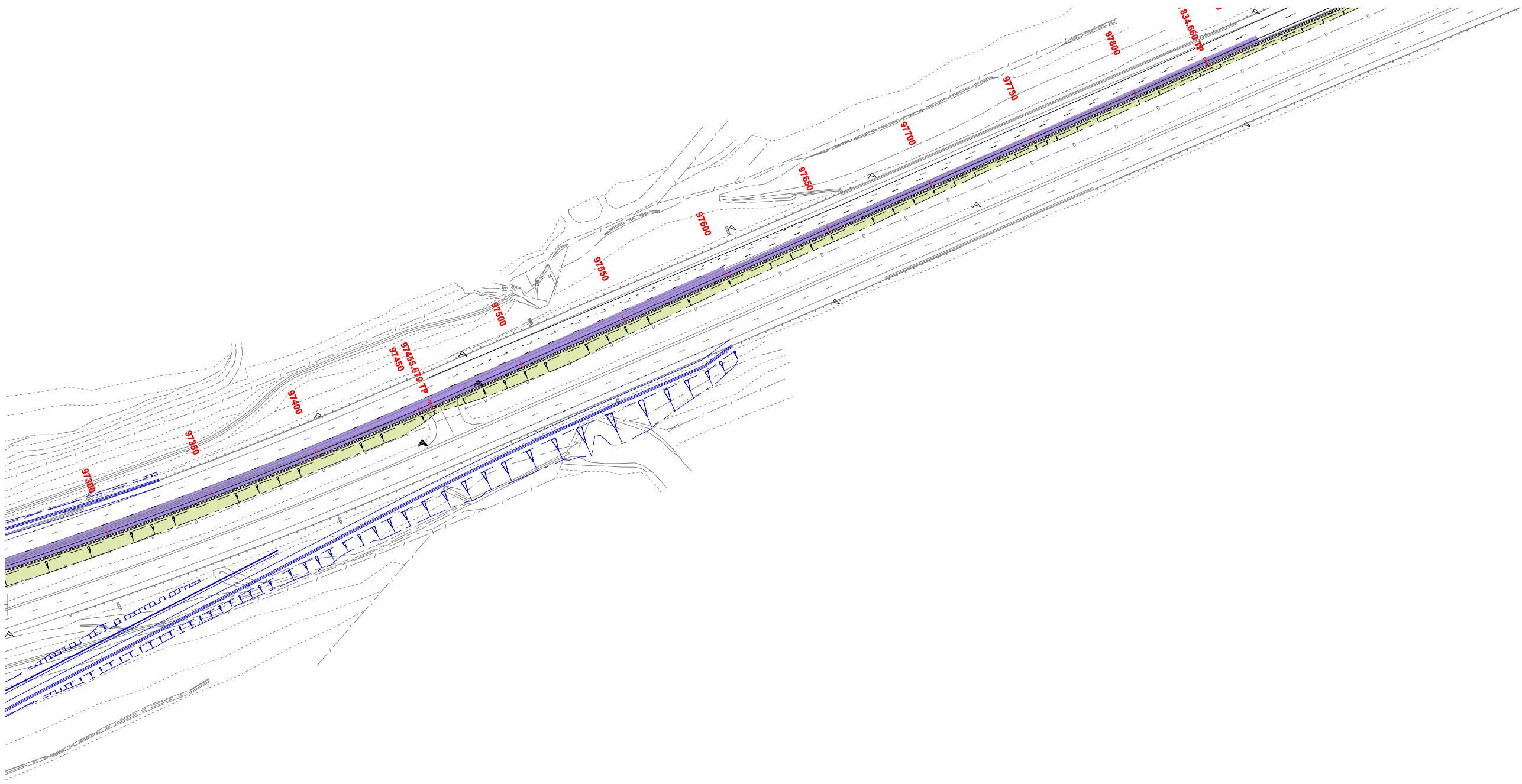












Appendix G

Intersection approach delay



2013 (existing) - AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	D	45	234
	East	A	13	918
	South	A	14	38
	West	A	13	1515
	South Sliplane	B	20	68
F3/Wyong_East Interchange	North	C	34	18
	East	A	13	535
	West	A	11	751
	North Sliplane	B	18	879
	East Sliplane	B	21	438
F3/Wyong_West Interchange	East	B	16	551
	South	B	18	611
	West	B	16	267
Hue Hue Rd/Sparks Rd	North	A	12	157
	East	B	15	347
	South	B	21	243
F3/Sparks Rd_West Interchange	East	B	24	596
	South	B	28	398
	West	C	30	226
	South Sliplane	D	53	34
	West Sliplane	C	40	99
F3/Sparks Rd_East Interchange	North	D	48	201
	North Sliplane	A	2	254
	East Sliplane	B	15	815
	West Righth Turn	A	13	92
	East Ahead	A	1	392
Warren Rd/Sparks Rd	West Through	A	1	699
	East	A	12	1160
	South	C	31	13
	West Righth Turn	D	43	91
	East Sliplane	A	7	29
	South Sliplane	B	15	48

2013 (existing) - PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	A	13	152
	East	A	12	1038
	South	B	17	196
	West	A	13	1053
	South Sliplane	B	22	277
F3/Wyong_East Interchange	North	C	30	22
	East	A	13	769
	West	A	11	656
	North Sliplane	A	11	512
	East Sliplane	B	21	424
F3/Wyong_West Interchange	East	B	16	790
	South	B	17	547
	West	B	16	239
Hue Hue Rd/Sparks Rd	North	A	11	108
	East	B	16	289
	South	B	18	296
F3/Sparks Rd_West Interchange	East	C	33	437
	South	B	23	666
	West	C	34	157
	South Sliplane	D	48	88
	West Sliplane	C	38	140
F3/Sparks Rd_East Interchange	North	D	51	97
	North Sliplane	A	2	254
	East Sliplane	A	12	409
	West Righth Turn	A	10	56
	East Ahead	A	1	342
Warren Rd/Sparks Rd	West Through	A	1	976
	East	A	12	677
	South	A	11	25
	West Righth Turn	B	21	35
	East Sliplane	A	7	9
	South Sliplane	B	15	75

BASE - 2019 AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	F	234	225
	East	A	14	938
	South	B	20	13
	West	B	15	1770
	South Sliplane	B	21	93
F3/Wyong_East Interchange	North	E	70	370
	East	B	16	485
	West	A	12	1023
	North Sliplane	B	17	915
	East Sliplane	B	22	715
F3/Wyong_West Interchange	East	B	26	857
	South	B	21	930
	West	C	32	269
Hue Hue Rd/Sparks Rd	North	A	12	175
	East	B	16	383
	South	B	21	258
F3/Sparks Rd_West Interchange	East	B	24	687
	South	D	45	443
	West	C	37	247
	South Sliplane	E	59	43
	West Sliplane	C	34	121
F3/Sparks Rd_East Interchange	North	D	56	249
	North Sliplane	A	3	278
	East Sliplane	B	17	872
	West Righth Turn	B	20	112
	East Ahead	A	2	439
Warren Rd/Sparks Rd	West Through	A	1	722
	East	A	13	1241
	South	B	21	4
	West Righth Turn	C	41	122
	East Sliplane	A	6	26
	South Sliplane	B	15	68

BASE - 2019 PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	C	31	152
	East	A	13	1110
	South	B	22	46
	West	A	13	1496
	South Sliplane	B	26	443
F3/Wyong_East Interchange	North	D	56	310
	East	A	14	818
	West	A	12	992
	North Sliplane	A	11	622
	East Sliplane	B	22	814
F3/Wyong_West Interchange	East	B	27	1127
	South	B	21	987
	West	C	29	236
Hue Hue Rd/Sparks Rd	North	A	12	114
	East	B	15	305
	South	B	17	308
F3/Sparks Rd_West Interchange	East	B	27	454
	South	C	32	664
	West	C	32	168
	South Sliplane	D	52	92
	West Sliplane	B	26	151
F3/Sparks Rd_East Interchange	North	D	51	99
	North Sliplane	A	2	269
	East Sliplane	A	13	448
	West Righth Turn	A	14	65
	East Ahead	A	1	355
Warren Rd/Sparks Rd	West Through	A	1	988
	East	A	12	704
	South	A	11	28
	West Righth Turn	B	24	52
	East Sliplane	A	6	4
	South Sliplane	B	15	97

BASE - 2029 AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	F	467	189
	East	A	13	938
	South	B	18	5
	West	B	15	1880
	South Sliplane	B	21	120
F3/Wyong_East Interchange	North	E	66	352
	East	B	15	490
	West	A	12	1080
	North Sliplane	B	15	1016
	East Sliplane	B	22	710
F3/Wyong_West Interchange	East	B	26	843
	South	B	20	928
	West	C	32	341
Hue Hue Rd/Sparks Rd	North	A	11	179
	East	B	19	431
	South	B	22	286
F3/Sparks Rd_West Interchange	East	D	51	954
	South	D	49	462
	West	C	37	265
	South Sliplane	E	65	50
	West Sliplane	C	34	122
F3/Sparks Rd_East Interchange	North	F	263	368
	North Sliplane	F	98	296
	East Sliplane	B	23	1067
	West Righth Turn	C	37	119
	East Ahead	A	8	591
Warren Rd/Sparks Rd	West Through	A	1	745
	East	A	14	1551
	South	B	16	3
	West Righth Turn	F	90	137
	East Sliplane	A	6	25
	South Sliplane	B	15	96

BASE - 2029 PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	B	28	154
	East	A	14	1101
	South	B	18	38
	West	A	14	1547
	South Sliplane	B	25	446
F3/Wyong_East Interchange	North	E	69	345
	East	B	15	800
	West	A	12	1068
	North Sliplane	A	13	620
	East Sliplane	B	23	814
F3/Wyong_West Interchange	East	B	26	1140
	South	B	21	1088
	West	C	29	277
Hue Hue Rd/Sparks Rd	North	A	12	173
	East	B	18	368
	South	B	18	344
F3/Sparks Rd_West Interchange	East	F	108	669
	South	C	37	756
	West	C	36	229
	South Sliplane	E	60	117
	West Sliplane	B	27	146
F3/Sparks Rd_East Interchange	North	F	156	265
	North Sliplane	A	8	356
	East Sliplane	A	13	422
	West Righth Turn	B	20	85
	East Ahead	A	14	396
Warren Rd/Sparks Rd	West Through	A	1	1176
	East	A	12	712
	South	A	11	74
	West Righth Turn	B	23	62
	East Sliplane	A	6	12
	South Sliplane	B	15	102

BASE - 2039 AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	F	235	181
	East	A	13	891
	South	B	19	11
	West	A	14	1771
	South Sliplane	B	21	115
F3/Wyong_East Interchange	North	C	40	103
	East	B	16	572
	West	A	12	982
	North Sliplane	B	26	1070
	East Sliplane	B	23	572
F3/Wyong_West Interchange	East	B	25	679
	South	B	20	747
	West	C	36	517
Hue Hue Rd/Sparks Rd	North	A	13	250
	East	C	29	444
	South	B	25	356
F3/Sparks Rd_West Interchange	East	D	52	960
	South	E	60	479
	West	F	149	366
	South Sliplane	F	79	75
	West Sliplane	F	107	137
F3/Sparks Rd_East Interchange	North	F	492	294
	North Sliplane	F	262	327
	East Sliplane	B	18	936
	West Righth Turn	E	67	156
	East Ahead	A	11	682
Warren Rd/Sparks Rd	West Through	A	1	851
	East	A	13	1504
	South	B	25	2
	West Righth Turn	F	88	153
	East Sliplane	A	6	8
	South Sliplane	B	15	107

BASE - 2039 PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	C	38	140
	East	A	14	1024
	South	B	20	29
	West	A	13	1454
	South Sliplane	C	29	522
F3/Wyong_East Interchange	North	C	36	162
	East	A	14	994
	West	A	12	1005
	North Sliplane	A	11	601
	East Sliplane	B	22	637
F3/Wyong_West Interchange	East	B	28	1158
	South	B	21	1021
	West	C	36	343
Hue Hue Rd/Sparks Rd	North	A	12	281
	East	B	23	410
	South	B	19	346
F3/Sparks Rd_West Interchange	East	F	106	690
	South	D	48	901
	West	C	39	294
	South Sliplane	E	68	130
	West Sliplane	B	28	131
F3/Sparks Rd_East Interchange	North	F	737	203
	North Sliplane	F	375	347
	East Sliplane	A	14	486
	West Righth Turn	B	25	111
	East Ahead	B	27	487
Warren Rd/Sparks Rd	West Through	A	1	1375
	East	A	12	795
	South	A	11	42
	West Righth Turn	C	36	63
	East Sliplane	A	5	1
	South Sliplane	B	15	165

BASE - 2049 AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	C	29	135
	East	A	12	849
	South	A	11	7
	West	A	13	1421
	South Sliplane	B	21	118
F3/Wyong_East Interchange	North	F	348	282
	East	B	19	443
	West	B	15	1312
	North Sliplane	F	83	569
	East Sliplane	B	24	632
F3/Wyong_West Interchange	East	B	26	738
	South	B	23	865
	West	E	64	759
Hue Hue Rd/Sparks Rd	North	F	127	322
	East	D	53	440
	South	F	796	140
F3/Sparks Rd_West Interchange	East	E	68	946
	South	F	304	466
	West	F	316	283
	South Sliplane	F	390	101
	West Sliplane	F	192	89
F3/Sparks Rd_East Interchange	North	F	993	175
	North Sliplane	F	622	168
	East Sliplane	C	29	792
	West Righth Turn	E	70	135
	East Ahead	D	54	775
Warren Rd/Sparks Rd	West Through	A	1	600
	East	C	32	1418
	South	F	195	2
	West Righth Turn	F	175	135
	East Sliplane	A	6	1
	South Sliplane	B	15	133

BASE - 2049 PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	C	38	140
	East	A	14	1024
	South	B	20	29
	West	A	13	1454
	South Sliplane	C	29	522
F3/Wyong_East Interchange	North	C	36	162
	East	A	14	994
	West	A	12	1005
	North Sliplane	A	11	601
	East Sliplane	B	22	637
F3/Wyong_West Interchange	East	B	28	1158
	South	B	21	1021
	West	C	36	343
Hue Hue Rd/Sparks Rd	North	A	12	281
	East	B	23	410
	South	B	19	346
F3/Sparks Rd_West Interchange	East	F	106	690
	South	D	48	901
	West	C	39	294
	South Sliplane	E	68	130
	West Sliplane	B	28	131
F3/Sparks Rd_East Interchange	North	F	737	203
	North Sliplane	F	375	347
	East Sliplane	A	14	486
	West Righth Turn	B	25	111
	East Ahead	B	27	487
Warren Rd/Sparks Rd	West Through	A	1	1375
	East	A	12	795
	South	A	11	42
	West Righth Turn	C	36	63
	East Sliplane	A	5	1
	South Sliplane	B	15	165

Option 17E - 2019 AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	F	237	232
	East	A	14	939
	South	B	18	14
	West	B	16	1774
	South Sliplane	B	21	93
F3/Wyong_East Interchange	North	F	77	376
	East	B	16	488
	West	A	13	1022
	North Sliplane	C	31	917
	East Sliplane	B	23	719
F3/Wyong_West Interchange	East	B	27	868
	South	B	21	929
	West	C	31	269
Hue Hue Rd/Sparks Rd	North - Ahead	B	25	52
	North - Left Turn Slip	A	5	123
	East	A	14	71
	South - Ahead	A	7	15
	South - Right Turn	A	11	243
F3/Sparks Rd_West Interchange	East	B	26	340
	South	C	42	434
	West	B	19	248
	South Sliplane	D	55	43
	West Sliplane	A	13	120
F3/Sparks Rd_East Interchange	North - Right Turn	D	50	249
	North - Left Turn	C	33	282
	East	B	15	436
	West	A	11	577
	West - Right Turn	C	31	113
	East Sliplane	B	19	873
Warren Rd/Sparks Rd	North	A	0	0
	East	B	16	1264
	East - Right Turn	A	0	0
	South	D	52	72
	West - Ahead	A	13	732
	West - Right Turn	F	73	123
	West - Slip Lane	A	0	0

Option 17E - 2019 PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	B	26	151
	East	A	13	1111
	South	B	23	46
	West	A	14	1485
	South Sliplane	B	26	443
F3/Wyong_East Interchange	North	D	55	305
	East	B	15	819
	West	A	12	995
	North Sliplane	A	13	613
	East Sliplane	B	22	814
F3/Wyong_West Interchange	East	B	27	1124
	South	B	20	991
	West	C	29	236
Hue Hue Rd/Sparks Rd	North - Ahead	B	25	28
	North - Left Turn Slip	A	5	85
	East	A	12	111
	South - Ahead	A	7	74
	South - Right Turn	A	11	235
F3/Sparks Rd_West Interchange	East	C	32	209
	South	B	28	659
	West	C	30	171
	South Sliplane	C	37	93
	West Sliplane	A	12	151
F3/Sparks Rd_East Interchange	North - Right Turn	D	47	101
	North - Left Turn	D	45	272
	East	B	15	350
	West	A	13	763
	West - Right Turn	C	33	65
	East Sliplane	B	19	448
Warren Rd/Sparks Rd	North	A	0	0
	East	A	10	709
	East - Right Turn	A	0	0
	South	D	53	126
	West - Ahead	A	8	986
	West - Right Turn	F	92	53
	West - Slip Lane	A	0	0

Option 17E - 2029 AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	F	254	188
	East	A	13	965
	South	B	17	13
	West	B	16	1864
	South Sliplane	B	22	110
F3/Wyong_East Interchange	North	F	82	359
	East	B	15	502
	West	A	13	1085
	North Sliplane	C	35	976
	East Sliplane	B	23	714
F3/Wyong_West Interchange	East	B	25	859
	South	B	21	951
	West	C	31	346
Hue Hue Rd/Sparks Rd	North - Ahead	B	25	60
	North - Left Turn Slip	A	5	135
	East	B	16	107
	South - Ahead	A	7	20
	South - Right Turn	A	11	274
F3/Sparks Rd_West Interchange	East	B	25	404
	South	C	42	453
	West	B	19	294
	South Sliplane	E	61	48
	West Sliplane	A	13	115
F3/Sparks Rd_East Interchange	North - Right Turn	E	59	381
	North - Left Turn	C	35	309
	East	B	16	584
	West	A	11	627
	West - Right Turn	C	35	127
	East Sliplane	B	19	1017
Warren Rd/Sparks Rd	North	E	61	1
	East	B	17	1511
	East - Right Turn	B	27	0
	South	D	50	105
	West - Ahead	A	14	788
	West - Right Turn	F	80	142
	West - Slip Lane	B	25	4

Option 17E - 2029 PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	C	30	147
	East	A	13	1079
	South	B	17	38
	West	A	14	1554
	South Sliplane	B	28	473
F3/Wyong_East Interchange	North	E	67	342
	East	B	16	840
	West	A	12	1065
	North Sliplane	B	21	636
	East Sliplane	B	23	790
F3/Wyong_West Interchange	East	C	29	1179
	South	B	21	1070
	West	C	29	285
Hue Hue Rd/Sparks Rd	North - Ahead	B	25	50
	North - Left Turn Slip	A	5	109
	East	A	12	139
	South - Ahead	A	7	80
	South - Right Turn	A	11	241
F3/Sparks Rd_West Interchange	East	C	32	244
	South	C	29	791
	West	C	30	204
	South Sliplane	C	37	108
	West Sliplane	A	13	147
F3/Sparks Rd_East Interchange	North - Right Turn	D	48	251
	North - Left Turn	D	46	361
	East	B	15	384
	West	A	13	918
	West - Right Turn	C	32	79
	East Sliplane	B	18	448
Warren Rd/Sparks Rd	North	D	52	2
	East	A	10	742
	East - Right Turn	F	128	3
	South	E	60	177
	West - Ahead	A	8	1219
	West - Right Turn	F	89	63
	West - Slip Lane	A	12	1

Option 17E - 2039 AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	F	159	165
	East	A	14	911
	South	B	19	11
	West	B	18	1903
	South Sliplane	B	21	112
F3/Wyong_East Interchange	North	C	40	126
	East	B	17	570
	West	A	12	990
	North Sliplane	A	8	1175
	East Sliplane	B	23	575
F3/Wyong_West Interchange	East	B	27	698
	South	B	20	760
	West	C	36	509
Hue Hue Rd/Sparks Rd	North - Ahead	B	26	60
	North - Left Turn Slip	A	5	193
	East	B	17	197
	South - Ahead	A	7	42
	South - Right Turn	A	11	309
F3/Sparks Rd_West Interchange	East	B	26	504
	South	C	41	473
	West	B	19	364
	South Sliplane	E	58	76
	West Sliplane	A	13	139
F3/Sparks Rd_East Interchange	North - Right Turn	D	55	323
	North - Left Turn	C	36	326
	East	B	16	803
	West	A	11	681
	West - Right Turn	D	51	166
	East Sliplane	B	19	1125
Warren Rd/Sparks Rd	North	F	73	6
	East	B	18	1814
	East - Right Turn	F	71	1
	South	D	53	106
	West - Ahead	A	13	837
	West - Right Turn	F	78	152
	West - Slip Lane	B	24	12

Option 17E - 2039 PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	C	35	132
	East	B	15	1108
	South	B	21	35
	West	A	14	1573
	South Sliplane	B	28	508
F3/Wyong_East Interchange	North	D	44	197
	East	B	16	1009
	West	A	12	986
	North Sliplane	A	3	745
	East Sliplane	B	22	683
F3/Wyong_West Interchange	East	C	31	1211
	South	B	20	1023
	West	C	38	346
Hue Hue Rd/Sparks Rd	North - Ahead	B	25	110
	North - Left Turn Slip	A	5	176
	East	A	13	181
	South - Ahead	A	7	109
	South - Right Turn	A	11	236
F3/Sparks Rd_West Interchange	East	C	33	298
	South	C	29	920
	West	C	31	286
	South Sliplane	C	38	125
	West Sliplane	A	13	134
F3/Sparks Rd_East Interchange	North - Right Turn	D	51	290
	North - Left Turn	D	49	474
	East	B	15	469
	West	A	13	1102
	West - Right Turn	D	49	108
	East Sliplane	B	19	468
Warren Rd/Sparks Rd	North	E	61	11
	East	A	9	779
	East - Right Turn	F	126	3
	South	E	57	205
	West - Ahead	A	9	1507
	West - Right Turn	F	91	69
	West - Slip Lane	B	16	1

Option 17E - 2049 AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	E	57	147
	East	A	13	842
	South	B	15	13
	West	A	14	1542
	South Sliplane	B	21	117
F3/Wyong_East Interchange	North	F	195	272
	East	B	24	459
	West	A	14	1283
	North Sliplane	F	119	714
	East Sliplane	B	24	611
F3/Wyong_West Interchange	East	B	27	732
	South	B	22	864
	West	D	56	751
Hue Hue Rd/Sparks Rd	North - Ahead	B	25	66
	North - Left Turn Slip	A	5	264
	East	B	22	342
	South - Ahead	A	7	58
	South - Right Turn	A	12	311
F3/Sparks Rd_West Interchange	East	B	28	674
	South	D	43	493
	West	B	19	427
	South Sliplane	E	58	113
	West Sliplane	A	13	151
F3/Sparks Rd_East Interchange	North - Right Turn	E	63	327
	North - Left Turn	C	38	356
	East	B	20	1214
	West	A	12	732
	West - Right Turn	F	83	200
	East Sliplane	B	24	1316
Warren Rd/Sparks Rd	North	F	83	9
	East	C	37	2394
	East - Right Turn	A	0	0
	South	D	53	120
	West - Ahead	B	17	857
	West - Right Turn	F	200	193
	West - Slip Lane	B	26	28

Option 17E - 2049 PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	C	31	136
	East	B	15	1076
	South	B	20	34
	West	A	14	1508
	South Sliplane	C	34	560
F3/Wyong_East Interchange	North	F	229	375
	East	B	18	961
	West	A	13	1184
	North Sliplane	F	150	539
	East Sliplane	B	23	738
F3/Wyong_West Interchange	East	C	40	1328
	South	B	24	1266
	West	C	39	439
Hue Hue Rd/Sparks Rd	North - Ahead	B	26	202
	North - Left Turn Slip	A	5	282
	East	B	16	232
	South - Ahead	A	7	135
	South - Right Turn	A	12	236
F3/Sparks Rd_West Interchange	East	C	35	338
	South	C	35	1074
	West	C	33	410
	South Sliplane	C	40	141
	West Sliplane	A	13	114
F3/Sparks Rd_East Interchange	North - Right Turn	D	54	315
	North - Left Turn	D	55	618
	East	B	17	521
	West	B	17	1341
	West - Right Turn	C	36	145
	East Sliplane	B	19	523
Warren Rd/Sparks Rd	North	E	69	24
	East	A	10	854
	East - Right Turn	F	82	1
	South	E	65	246
	West - Ahead	A	10	1848
	West - Right Turn	F	113	90
	West - Slip Lane	C	29	19

Option 17F - 2019 AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	F	213	231
	East	A	14	938
	South	B	17	14
	West	B	15	1765
	South Sliplane	B	21	93
F3/Wyong_East Interchange	North	F	73	369
	East	B	16	488
	West	A	12	1021
	North Sliplane	B	28	905
	East Sliplane	B	23	720
F3/Wyong_West Interchange	East	B	26	862
	South	B	20	930
	West	C	31	268
Hue Hue Rd/Sparks Rd	North - Ahead	B	25	52
	North - Left Turn Slip	A	5	123
	East	A	14	71
	South - Ahead	A	7	15
	South - Right Turn	A	11	242
F3/Sparks Rd_West Interchange	East	B	26	340
	South	C	42	432
	West	B	19	248
	South Sliplane	D	54	42
	West Sliplane	A	13	120
F3/Sparks Rd_East Interchange	North - Right Turn	D	53	172
	North - Left Turn	C	34	282
	East	A	14	437
	West	A	11	576
	West - Right Turn	C	31	113
	East Sliplane	B	19	871
Warren Rd/Sparks Rd	North	A	0	0
	East	B	16	1266
	East - Right Turn	A	0	0
	South	D	52	72
	West - Ahead	A	14	731
	West - Right Turn	F	72	123
	West - Slip Lane	A	0	0

Option 17F - 2019 PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	C	30	154
	East	A	13	1102
	South	B	21	46
	West	A	14	1482
	South Sliplane	B	26	441
F3/Wyong_East Interchange	North	D	53	301
	East	B	15	817
	West	A	12	1000
	North Sliplane	A	11	610
	East Sliplane	B	23	809
F3/Wyong_West Interchange	East	B	26	1120
	South	B	20	999
	West	C	29	232
Hue Hue Rd/Sparks Rd	North - Ahead	B	25	29
	North - Left Turn Slip	A	5	84
	East	A	12	116
	South - Ahead	A	7	72
	South - Right Turn	A	11	237
F3/Sparks Rd_West Interchange	East	C	31	220
	South	B	28	654
	West	C	30	172
	South Sliplane	C	40	89
	West Sliplane	A	12	151
F3/Sparks Rd_East Interchange	North - Right Turn	D	51	90
	North - Left Turn	D	48	262
	East	B	15	354
	West	A	13	761
	West - Right Turn	C	34	64
	East Sliplane	B	19	450
Warren Rd/Sparks Rd	North	A	0	0
	East	A	10	717
	East - Right Turn	A	0	0
	South	D	54	125
	West - Ahead	A	8	983
	West - Right Turn	F	89	53
	West - Slip Lane	A	0	0

Option 17F - 2029 AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	F	250	191
	East	A	13	964
	South	B	21	13
	West	B	16	1866
	South Sliplane	B	21	108
F3/Wyong_East Interchange	North	F	87	359
	East	B	15	504
	West	A	13	1085
	North Sliplane	C	38	976
	East Sliplane	B	23	715
F3/Wyong_West Interchange	East	B	25	860
	South	B	20	951
	West	C	31	346
Hue Hue Rd/Sparks Rd	North - Ahead	B	25	60
	North - Left Turn Slip	A	5	135
	East	B	15	108
	South - Ahead	A	7	20
	South - Right Turn	A	11	274
F3/Sparks Rd_West Interchange	East	B	25	402
	South	D	43	451
	West	B	19	293
	South Sliplane	E	57	48
	West Sliplane	A	13	115
F3/Sparks Rd_East Interchange	North - Right Turn	D	50	162
	North - Left Turn	C	34	310
	East	B	16	584
	West	A	11	626
	West - Right Turn	C	34	127
	East Sliplane	B	19	1017
Warren Rd/Sparks Rd	North	E	61	1
	East	B	17	1510
	East - Right Turn	B	27	0
	South	D	50	105
	West - Ahead	A	13	787
	West - Right Turn	F	82	142
	West - Slip Lane	B	25	4

Option 17F - 2029 PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	C	34	147
	East	A	13	1079
	South	B	18	38
	West	A	14	1543
	South Sliplane	C	29	474
F3/Wyong_East Interchange	North	E	69	339
	East	B	16	839
	West	A	12	1066
	North Sliplane	B	24	629
	East Sliplane	B	22	788
F3/Wyong_West Interchange	East	C	29	1181
	South	B	21	1071
	West	C	29	285
Hue Hue Rd/Sparks Rd	North - Ahead	B	25	50
	North - Left Turn Slip	A	5	109
	East	A	12	138
	South - Ahead	A	7	80
	South - Right Turn	A	11	241
F3/Sparks Rd_West Interchange	East	C	32	244
	South	C	29	793
	West	C	29	205
	South Sliplane	C	39	108
	West Sliplane	A	13	147
F3/Sparks Rd_East Interchange	North - Right Turn	D	50	104
	North - Left Turn	D	46	363
	East	B	15	383
	West	A	13	922
	West - Right Turn	C	32	79
	East Sliplane	B	18	447
Warren Rd/Sparks Rd	North	D	44	2
	East	A	10	741
	East - Right Turn	F	123	3
	South	E	59	177
	West - Ahead	A	8	1227
	West - Right Turn	F	87	63
	West - Slip Lane	A	11	1

Option 17F - 2039 AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	F	174	166
	East	A	14	911
	South	B	17	11
	West	B	18	1904
	South Sliplane	B	21	112
F3/Wyong_East Interchange	North	C	38	126
	East	B	16	573
	West	A	12	991
	North Sliplane	A	8	1181
	East Sliplane	B	23	575
F3/Wyong_West Interchange	East	B	27	698
	South	B	20	759
	West	C	37	510
Hue Hue Rd/Sparks Rd	North - Ahead	B	26	60
	North - Left Turn Slip	A	5	193
	East	B	17	198
	South - Ahead	A	7	42
	South - Right Turn	A	12	309
F3/Sparks Rd_West Interchange	East	B	26	503
	South	C	40	471
	West	B	19	364
	South Sliplane	D	56	77
	West Sliplane	A	13	139
F3/Sparks Rd_East Interchange	North - Right Turn	D	49	133
	North - Left Turn	C	36	326
	East	B	16	801
	West	A	11	680
	West - Right Turn	D	53	166
	East Sliplane	B	19	1125
Warren Rd/Sparks Rd	North	F	72	6
	East	B	19	1815
	East - Right Turn	F	73	1
	South	D	53	106
	West - Ahead	A	14	837
	West - Right Turn	F	77	153
	West - Slip Lane	B	24	12

Option 17F - 2039 PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	C	31	133
	East	B	15	1108
	South	B	20	34
	West	A	14	1566
	South Sliplane	B	28	506
F3/Wyong_East Interchange	North	C	40	195
	East	B	15	1006
	West	A	12	984
	North Sliplane	A	3	746
	East Sliplane	B	22	684
F3/Wyong_West Interchange	East	C	30	1204
	South	B	20	1020
	West	C	39	347
Hue Hue Rd/Sparks Rd	North - Ahead	B	25	110
	North - Left Turn Slip	A	5	176
	East	A	13	182
	South - Ahead	A	7	109
	South - Right Turn	A	11	236
F3/Sparks Rd_West Interchange	East	C	33	298
	South	B	28	920
	West	C	31	286
	South Sliplane	C	38	125
	West Sliplane	A	13	134
F3/Sparks Rd_East Interchange	North - Right Turn	D	48	117
	North - Left Turn	D	48	474
	East	B	15	469
	West	A	13	1097
	West - Right Turn	D	49	108
	East Sliplane	B	19	468
Warren Rd/Sparks Rd	North	E	63	11
	East	A	10	778
	East - Right Turn	F	124	3
	South	E	57	205
	West - Ahead	A	9	1503
	West - Right Turn	F	94	69
	West - Slip Lane	B	16	1

Option 17F - 2049 AM peak level of service results- by approach

Intersection	Approach	8.00-9.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	E	70	146
	East	A	13	842
	South	B	16	13
	West	A	14	1568
	South Sliplane	B	21	117
F3/Wyong_East Interchange	North	F	190	275
	East	B	23	459
	West	A	14	1283
	North Sliplane	F	112	734
	East Sliplane	B	24	609
F3/Wyong_West Interchange	East	B	27	736
	South	B	22	865
	West	E	64	750
Hue Hue Rd/Sparks Rd	North - Ahead	B	25	66
	North - Left Turn Slip	A	5	264
	East	B	20	340
	South - Ahead	A	7	58
	South - Right Turn	A	12	311
F3/Sparks Rd_West Interchange	East	B	28	673
	South	C	41	494
	West	B	19	427
	South Sliplane	E	59	113
	West Sliplane	A	13	151
F3/Sparks Rd_East Interchange	North - Right Turn	D	48	108
	North - Left Turn	C	38	357
	East	B	20	1209
	West	A	12	733
	West - Right Turn	F	100	202
	East Sliplane	B	24	1304
Warren Rd/Sparks Rd	North	F	82	9
	East	C	40	2374
	East - Right Turn	A	0	0
	South	D	54	119
	West - Ahead	B	17	860
	West - Right Turn	F	190	193
	West - Slip Lane	B	28	27

Option 17F - 2049 PM peak level of service results- by approach

Intersection	Approach	16.00-17.00		
		LOS	Average delay	Flow (veh/hr)
Woodbury Park Drive/Wyong Rd/Tonkins St North	North	C	29	136
	East	B	15	1075
	South	B	20	33
	West	A	14	1524
	South Sliplane	C	35	556
F3/Wyong_East Interchange	North	F	232	390
	East	B	17	956
	West	A	13	1186
	North Sliplane	F	146	553
	East Sliplane	B	23	737
F3/Wyong_West Interchange	East	C	39	1341
	South	B	24	1267
	West	C	38	439
Hue Hue Rd/Sparks Rd	North - Ahead	B	26	201
	North - Left Turn Slip	A	5	282
	East	B	15	232
	South - Ahead	A	7	135
	South - Right Turn	A	12	236
F3/Sparks Rd_West Interchange	East	C	35	339
	South	C	33	1077
	West	C	33	410
	South Sliplane	C	38	143
	West Sliplane	A	13	114
F3/Sparks Rd_East Interchange	North - Right Turn	D	51	138
	North - Left Turn	D	51	620
	East	B	17	521
	West	B	17	1340
	West - Right Turn	C	36	145
	East Sliplane	B	19	524
Warren Rd/Sparks Rd	North	E	68	24
	East	A	10	855
	East - Right Turn	F	83	1
	South	E	65	246
	West - Ahead	A	10	1854
	West - Right Turn	F	117	91
	West - Slip Lane	C	29	19

Appendix H

Roads and Maritime raw crash data



F3 Freeway: Chittaway Point to Tuggerah

Crash Period: 1st July 2007 to 30th June 2012 (Finalised Data)

Plus Provisional Data (Which is incomplete & subject to change) from September Quarter 2012



Transport
Roads & Maritime
Services



Detailed Crash Report - sorted

Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors	
Natural Lighting																					S F
Hunter Region		Wyong LGA			Tuggerah			Wyong Rd													
581010	10/07/2007	Tue	16:00	250 m	E NEWCASTLE EXPR OP	DIV	STR	Fine	Dry	70	3	WAG	M23	W in WYONG RD	50 Proceeding in lane		N	0	0		
E30996768					Darkness	DCA :	301	Same - Rear end				CAR	F17	W in WYONG RD	5 Proceeding in lane						
												OMV	U U	W in WYONG RD	Unk Proceeding in lane						
Hunter Region		Wyong LGA			Warnervale			Sparks Rd													
582360	10/07/2007	Tue	16:10		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	4WD	M76	W in SPARKS RD	30 Turning right		N	0	0		
E32093155					Daylight	DCA :	202	Opp - Right-thru				CAR	M50	E in SPARKS RD	70 Proceeding in lane						
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp													
581855	17/07/2007	Tue	14:50	3 km	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	F42	S in NEWCASTLE EXP	90 Proceeding in lane		N	0	0		
E30780523					Daylight	DCA :	704	Right off cway into obj						Tree/bush							
Hunter Region		Wyong LGA			Mardi			Cobbs Rd													
583857	19/07/2007	Thu	13:10		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	CAR	F29	W in NEWCASTLE EXP	50 Turning right		I	0	1		
E185112092					Daylight	DCA :	202	Opp - Right-thru				CAR	F41	E in NEWCASTLE EXP	10 Proceeding in lane						
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp													
584061	27/07/2007	Fri	17:10	2 km	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	TRK	M59	N in NEWCASTLE EXP	95 Proceeding in lane		N	0	0		
E32635287					Daylight	DCA :	703	Left off cway into object						Fence							
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp													
584979	01/08/2007	Wed	20:15	3.5 km	S SPARKS ROAD OP	D F	CRV	Fine	Dry	110	2	BDBL	M34	N in NEWCASTLE EXP	100 Proceeding in lane		N	0	0		
E31163526					Darkness	DCA :	301	Same - Rear end				WAG	M53	N in NEWCASTLE EXP	80 Proceeding in lane						
Hunter Region		Wyong LGA			Mardi			Newcastle Exp													
586335	20/08/2007	Mon	08:30	3 km	N CUBBS ROAD OP	D F	STR	Raining	Wet	110	2	CAR	M39	N in NEWCASTLE EXP	Unk Veering left		N	0	0	F	
E31588851					Daylight	DCA :	703	Left off cway into object				LOR	M57	N in NEWCASTLE EXP	Unk Proceeding in lane						
														Fence							
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp													
587930	22/08/2007	Wed	15:30	5 m	S SPARKS RD	TJN	STR	Fine	Dry	70	2	CAR	F22	N in NEWCASTLE EXP	Unk Proceeding in lane		I	0	1		
E31575943					Daylight	DCA :	303	Same - Rear right				CAR	F57	N in NEWCASTLE EXP	0 Wait turn right						
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp													
589254	08/09/2007	Sat	14:30	1 km	S SPARKS ROAD OP	D F	STR	Raining	Wet	110	1	CAR	M60	N in NEWCASTLE EXP	100 Proceeding in lane		N	0	0		
E31561273					Daylight	DCA :	701	Off carriageway to left													

Detailed Crash Report - sorted

Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors					
Natural Lighting																				S F					
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp																	
595686	08/09/2007	Sat	00:30	200 m	N	CALTEX SERVICE SN	D F	CRV	Raining	Wet	110	1	WAG	M54	N in NEWCASTLE EXP	100	Proceeding in lane	N	0	0	S				
E31263833						Darkness	DCA :	801	R	Off cway right bend															
Hunter Region		Wyong LGA			Wyong			Newcastle Exp																	
589242	08/09/2007	Sat	09:41	150 m	S	ALISON ROAD OP	D F	STR	Raining	Wet	110	2	WAG	M34	S in NEWCASTLE EXP	100	Proceeding in lane	N	0	0					
E31109324						Daylight	DCA :	704		Right off cway into obj			OMV		S in NEWCASTLE EXP	0	Parked								
Hunter Region		Wyong LGA			Wyong			Newcastle Exp																	
589246	08/09/2007	Sat	09:30		at	WYONG CREEK BDGE	D F	STR	Raining	Wet	110	1	CAR	M20	N in NEWCASTLE EXP	100	Proceeding in lane	N	0	0					
E31217422						Daylight	DCA :	703		Left off cway into object			Fence												
Hunter Region		Wyong LGA			Wyong			Newcastle Exp																	
591173	08/09/2007	Sat	17:10	50 m	N	ALISON ROAD OP	D F	STR	Raining	Wet	110	1	4WD	M44	N in NEWCASTLE EXP	90	Proceeding in lane	I	0	1					
E31074535						Daylight	DCA :	703		Left off cway into object			Embankment												
Hunter Region		Wyong LGA			Tuggerah			Wyong Rd																	
590367	11/09/2007	Tue	17:14	100 m	E	NEWCASTLE EXP	DIV	STR	Fine	Dry	70	2	CAR	F25	W in WYONG RD	Unk	Proceeding in lane	I	0	1					
E31544457						Daylight	DCA :	301		Same - Rear end			VAN	M32	W in WYONG RD	0	Stationary								
Hunter Region		Wyong LGA			Tuggerah			Newcastle Exp																	
590778	17/09/2007	Mon	11:40	500 m	N	COBBS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M84	S in NEWCASTLE EXP	Unk	Proceeding in lane	I	0	1					
E31747977						Daylight	DCA :	703		Left off cway into object			Fence												
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp																	
604302	22/09/2007	Sat	19:50		at	MOTORWAY LINK TO	D F	STR	Fine	Dry	110	2	CAR	F39	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0					
E31716631						Darkness	DCA :	301		Same - Rear end			CAR	F36	S in NEWCASTLE EXP	0	Stationary								
Hunter Region		Wyong LGA			Wyong			Newcastle Exp																	
591665	27/09/2007	Thu	08:20	140 m	S	ALISON ROAD OP	D F	STR	Fine	Dry	110	1	4WD	U U	N in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	F				
E31181530						Daylight	DCA :	703		Left off cway into object			Signpost												
Hunter Region		Wyong LGA			Warnervale			Sparks Rd																	
595617	28/09/2007	Fri	08:25		at	NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	CAR	F70	W in SPARKS RD	20	Turning right	I	0	3					
E32646608						Daylight	DCA :	202		Opp - Right-thru			CAR	F18	E in SPARKS RD	60	Proceeding in lane								
Hunter Region		Wyong LGA			Wyong			Newcastle Exp																	
592264	01/10/2007	Mon	13:40	1 km	S	CALTEX SERVICE TO	D F	CRV	Fine	Dry	110	1	CAR	F24	S in NEWCASTLE EXP	100	Proceeding in lane	I	0	1					
E33425189						Daylight	DCA :	803	R	Off right bend into obj			Tree/bush												

Detailed Crash Report - sorted

Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors					
Natural Lighting																				S F					
Hunter Region		Wyong LGA				Warnervale				Newcastle Exp															
593545	12/10/2007	Fri	11:30	200 m	N SPARKS ROAD OP	D F	CRV	Raining	Wet	110	1	CAR	M26	N in NEWCASTLE EXP	90	Proceeding in lane		N	0	0	S				
E106379097				Daylight				DCA : 803	R	Off right bend into obj				Tree/bush											
Hunter Region		Wyong LGA				Warnervale				Newcastle Exp															
608812	14/10/2007	Sun	15:30	500 m	S MOTORWAY LINK OP	D F	STR	Raining	Wet	110	2	WAG	M49	S in NEWCASTLE EXP	110	Proceeding in lane		N	0	0					
E33370382				Daylight				DCA : 610	On path - Load hit vehicle						VAN	M53	S in NEWCASTLE EXP	100	Proceeding in lane						
												Falling object													
Hunter Region		Wyong LGA				Tuggerah				Newcastle Exp															
595975	29/10/2007	Mon	18:20	100 m	N COBBS ROAD OP	D F	STR	Fine	Dry	110	1	WAG	F30	S in NEWCASTLE EXP	110	Proceeding in lane		N	0	0					
E32407678				Daylight				DCA : 702	Off carriageway to right																
Hunter Region		Wyong LGA				Jilliby				Sparks Rd															
596923	01/11/2007	Thu	15:49		at NEWCASTLE EXP	TJN	STR	Fine	Dry	80	3	CAR	F62	W in SPARKS RD	30	Turning right		N	0	0					
E33826184				Daylight				DCA : 202	Opp - Right-thru						CAR	F48	E in SPARKS RD	50	Proceeding in lane						
												CAR F25 E in SPARKS RD													
Hunter Region		Wyong LGA				Warnervale				Newcastle Exp															
597366	09/11/2007	Fri	11:45	500 m	S MOTORWAY LINK OP	D F	STR	Raining	Wet	110	3	CAR	F26	S in NEWCASTLE EXP	80	Proceeding in lane		N	0	0					
E32016721				Daylight				DCA : 301	Same - Rear end						OMV	U U	S in NEWCASTLE EXP	Unk	Proceeding in lane						
												OMV U U S in NEWCASTLE EXP													
Hunter Region		Wyong LGA				Warnervale				Newcastle Exp															
597379	09/11/2007	Fri	09:00	Unk	Unk UNKNOWN UK	D F	STR	Raining	Wet	110	1	CAR	M19	S in NEWCASTLE EXP	90	Proceeding in lane		N	0	0					
E32192903				Daylight				DCA : 701	Off carriageway to left																
Hunter Region		Wyong LGA				Wyong				Newcastle Exp															
598421	19/11/2007	Mon	12:45	300 m	N COBBS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M60	N in NEWCASTLE EXP	80	Proceeding in lane		N	0	0					
E32090646				Daylight				DCA : 702	Off carriageway to right																
Hunter Region		Wyong LGA				Warnervale				Newcastle Exp															
617696	22/11/2007	Thu	20:30	100 m	S CALTEX SERVICE SN	D F	STR	Raining	Wet	110	1	CAR	M20	N in NEWCASTLE EXP	100	Proceeding in lane		I	0	1					
E61372102				Darkness				DCA : 702	Off carriageway to right																
Hunter Region		Wyong LGA				Tuggerah				Newcastle Exp															
600270	01/12/2007	Sat	19:20	1 km	N COBBS RD	D F	STR	Raining	Wet	110	1	CAR	F19	N in NEWCASTLE EXP	100	Proceeding in lane		N	0	0					
E32070356				Darkness				DCA : 703	Left off cway into object						Tree/bush										

Detailed Crash Report - sorted

Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors					
Natural Lighting																				S F					
Hunter Region		Wyong LGA			Warnervale		Newcastle Exp																		
600736	01/12/2007	Sat	17:30	190 m	S ST JOHNS ROAD OP	D F	STR	Raining	Wet	110	1	WAG	F39	N in NEWCASTLE EXP	95	Proceeding in lane	I	0	1						
E32359362					Daylight	DCA :	702	Off carriageway to right																	
Hunter Region		Wyong LGA			Tuggerah		Newcastle Exp																		
633182	03/12/2007	Mon	14:50	610 m	N COBBS ROAD OP	D F	STR	Raining	Wet	110	1	CAR	F21	N in NEWCASTLE EXP	80	Proceeding in lane	N	0	0						
E61700602					Daylight	DCA :	704	Right off cway into obj					Fence												
Hunter Region		Wyong LGA			Wyong		Newcastle Exp																		
600343	03/12/2007	Mon	19:40	200 m	N ALISON ROAD OP	D F	STR	Raining	Wet	110	1	CAR	M22	S in NEWCASTLE EXP	100	Proceeding in lane	N	0	0						
E32178013					Dusk	DCA :	704	Right off cway into obj					Traffic island etc												
Hunter Region		Wyong LGA			Warnervale		Sparks Rd																		
603414	17/12/2007	Mon	16:50	at NEWCASTLE EXP		TJN	STR	Overcast	Dry	80	2	CAR	M84	W in SPARKS RD	80	Turning right	N	0	0						
E122272595					Daylight	DCA :	202	Opp - Right-thru					WAG F20 E in SPARKS RD					60	Proceeding in lane						
Hunter Region		Wyong LGA			Wyong		Newcastle Exp																		
605816	11/01/2008	Fri	21:50	40 m	S WYONG RIVER BDGE	D F	STR	Fine	Dry	110	1	CAR	M23	N in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	F					
E32700405					Darkness	DCA :	704	Right off cway into obj					Fence												
Hunter Region		Wyong LGA			Jilliby		Motorway Link Ms																		
606224	25/01/2008	Fri	15:14	1 km	W NEWCASTLE EXPR OP	OTH	CRV	Overcast	Dry	90	1	CAR	M31	E in MOTORWAY LINK MS	90	Proceeding in lane	I	0	1	S					
E32683513					Daylight	DCA :	802	L Off cway left bend																	
Hunter Region		Wyong LGA			Tuggerah		Newcastle Exp																		
608904	30/01/2008	Wed	11:28	500 m	N COBBS RD	OTH	STR	Fine	Dry	80	2	CAR	F35	S in NEWCASTLE EXP	Unk	Proceeding in lane	N	0	0						
E32968058					Daylight	DCA :	301	Same - Rear end					CAR F37 S in NEWCASTLE EXP					70	Proceeding in lane						
Hunter Region		Wyong LGA			Wyong		Newcastle Exp																		
614849	13/02/2008	Wed	12:00	2 km	N ALISON ROAD OP	D F	CRV	Raining	Wet	110	1	CAR	F29	S in NEWCASTLE EXP	100	Proceeding in lane	I	0	2	S					
E62940202					Daylight	DCA :	804	R Off left bend into obj					Traffic island etc												
Hunter Region		Wyong LGA			Tuggerah		Newcastle Exp																		
610441	14/02/2008	Thu	09:37	750 m	N COBBS ROAD OP	D F	STR	Overcast	Wet	110	2	UTE	F47	S in NEWCASTLE EXP	80	Proceeding in lane	I	0	3						
E146361093					Daylight	DCA :	301	Same - Rear end					CAR F72 S in NEWCASTLE EXP					80	Proceeding in lane						
Hunter Region		Wyong LGA			Warnervale		Newcastle Exp																		
609010	14/02/2008	Thu	11:30	70 m	N MOTORWAY LINK OP	D F	STR	Fine	Dry	110	1	CAR	M47	S in NEWCASTLE EXP	120	Proceeding in lane	N	0	0	S					
E32612875					Daylight	DCA :	702	Off carriageway to right																	

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors
Natural Lighting																				S F
Hunter Region				Wyong LGA		Wyong														
609461	20/02/2008	Wed	10:15	500 m N	ALISON ROAD OP	D F	STR	Raining	Wet	110	2	BUS	M49	S in NEWCASTLE EXP	50	Proceeding in lane		N	0	0
E64070801					Daylight	DCA :	301	Same - Rear end				TRK	M22	S in NEWCASTLE EXP	20	Proceeding in lane				
Hunter Region				Wyong LGA		Wyong														
614902	20/02/2008	Wed	10:00	1 km N	ALISON ROAD OP	D F	STR	Raining	Wet	110	1	WAG	F39	S in NEWCASTLE EXP	80	Proceeding in lane		N	0	0
E32603120					Daylight	DCA :	703	Left off cway into object				Fence								
Hunter Region				Wyong LGA		Warnervale														
616323	28/02/2008	Thu	12:20		at NEWCASTLE EXP	TJN	STR	Raining	Wet	80	2	SEM	M29	W in SPARKS RD	20	Turning right		N	0	0
E32672220					Daylight	DCA :	202	Opp - Right-thru				UTE	M39	E in SPARKS RD	60	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale														
614690	03/03/2008	Mon	10:43	1 km N	SPARKES ROAD OP	D F	CRV	Fine	Dry	110	1	WAG	F61	N in NEWCASTLE EXP	108	Proceeding in lane		I	0	1 S
E33405529					Daylight	DCA :	803 L	Off right bend into obj				Fence								
Hunter Region				Wyong LGA		Tuggerah														
618748	07/04/2008	Mon	12:45	300 m N	COBBS ROAD OP	D F	STR	Raining	Wet	110	1	TRK	M34	N in NEWCASTLE EXP	110	Proceeding in lane		N	0	0
E33489566					Daylight	DCA :	704	Right off cway into obj				Tree/bush								
Hunter Region				Wyong LGA		Warnervale														
618836	09/04/2008	Wed	07:10	300 m N	SPARKS ROAD OP	D F	CRV	Raining	Wet	110	1	UTE	F29	S in NEWCASTLE EXP	80	Proceeding in lane		N	0	0 S
E33045330					Daylight	DCA :	802 R	Off cway left bend												
Hunter Region				Wyong LGA		Warnervale														
621784	09/04/2008	Wed	07:50	400 m N	SPARKS ROAD OP	D F	CRV	Overcast	Wet	110	1	CAR	F21	S in NEWCASTLE EXP	90	Proceeding in lane		N	0	0 S
E33813774					Daylight	DCA :	804 R	Off left bend into obj				Tree/bush								
Hunter Region				Wyong LGA		Warnervale														
628949	10/04/2008	Thu	07:00	650 m N	SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	4WD	M21	S in NEWCASTLE EXP	100	Proceeding in lane		I	0	1 F
E33663358					Daylight	DCA :	704	Right off cway into obj				Tree/bush								
Hunter Region				Wyong LGA		Wyong														
619244	15/04/2008	Tue	07:45	200 m S	DEEP CREEK BDGE	D F	CRV	Raining	Wet	110	1	CAR	M31	N in NEWCASTLE EXP	100	Proceeding in lane		N	0	0 S
E148908693					Daylight	DCA :	804 R	Off left bend into obj				Tree/bush								
Hunter Region				Wyong LGA		Warnervale														
620290	19/04/2008	Sat	05:03	500 m S	SPARKS ROAD OP	D F	STR	Raining	Wet	110	1	CAR	M32	N in NEWCASTLE EXP	115	Proceeding in lane		N	0	0 S
E33860569					Darkness	DCA :	704	Right off cway into obj				Tree/bush								

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors			
Natural Lighting																				S F			
Hunter Region		Wyong LGA				Tuggerah		Cobbs Rd															
622183	20/04/2008	Sun	01:15		at NEWCASTLE EXP	TJN	STR	Overcast	Dry	80	2	CAR	F20	E in COBBS RD	10	Turning right	I	0	1				
E33121010					Darkness	DCA :	202	Opp - Right-thru				WAG	M40	W in COBBS RD	70	Proceeding in lane							
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp															
621744	20/04/2008	Sun	13:05	200 m	S SPARKS ROAD OP	D F	STR	Raining	Wet	110	2	CAR	F18	S in NEWCASTLE EXP	90	Proceeding in lane	N	0	0				
E33363833					Daylight	DCA :	301	Same - Rear end				UTE	M64	S in NEWCASTLE EXP	0	Stationary							
Hunter Region		Wyong LGA				Mardi		Newcastle Exp															
620370	21/04/2008	Mon	10:10	600 m	N COBBS ROAD OP	D F	STR	Raining	Wet	110	1	CAR	M29	N in NEWCASTLE EXP	80	Proceeding in lane	N	0	0				
E33259360					Daylight	DCA :	702	Off carriageway to right															
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp															
620454	23/04/2008	Wed	03:35	1.177 km	S SPARKS ROAD OP	D F	STR	Raining	Wet	110	2	CAR	F25	S in NEWCASTLE EXP	Unk	Proceeding in lane	N	0	0				
E33433423					Darkness	DCA :	703	Left off cway into object				CAR	M68	S in NEWCASTLE EXP	60	Proceeding in lane							
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp															
620456	23/04/2008	Wed	10:45	2 km	N SPARKS ROAD OP	D F	STR	Raining	Wet	110	1	TRK	M40	S in NEWCASTLE EXP	90	Proceeding in lane	N	0	0				
E33530611					Daylight	DCA :	704	Right off cway into obj					Tree/bush										
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp															
621874	23/04/2008	Wed	08:45	500 m	S SPARKS ROAD OP	D F	STR	Raining	Wet	110	1	CAR	M51	S in NEWCASTLE EXP	80	Proceeding in lane	I	0	1	F			
E33272825					Daylight	DCA :	704	Right off cway into obj					Tree/bush										
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp															
621889	23/04/2008	Wed	20:20	400 m	S SPARKS ROAD OP	D F	STR	Raining	Wet	110	1	WAG	M48	S in NEWCASTLE EXP	100	Proceeding in lane	I	0	1				
E34058667					Darkness	DCA :	609	On path - Hit animal					Straying stock										
Hunter Region		Wyong LGA				Warnervale		Sparks Rd															
627072	23/04/2008	Wed	17:10		at NEWCASTLE EXP	TJN	STR	Overcast	Wet	80	2	CAR	F49	W in SPARKS RD	10	Turning right	I	0	2				
E33543513					Dusk	DCA :	202	Opp - Right-thru				CAR	M19	E in SPARKS RD	75	Proceeding in lane							
Hunter Region		Wyong LGA				Tuggerah		Cobbs Rd															
620733	24/04/2008	Thu	10:20	100 m	W NEWCASTLE EXPR OP	DIV	STR	Overcast	Wet	70	2	CAR	M18	W in COBBS RD	60	Proceeding in lane	N	0	0				
E33761804					Daylight	DCA :	301	Same - Rear end				SEM	M54	W in COBBS RD	40	Proceeding in lane							

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors					
Natural Lighting																				S F					
Hunter Region		Wyong LGA				Tuggerah		Newcastle Exp																	
620732	24/04/2008	Thu	17:55	100 m	N COBBS ROAD OP	D F	STR	Raining	Wet	110	3	CAR	M36	N in NEWCASTLE EXP	40	Proceeding in lane		I	0	1					
E33750162					Darkness	DCA :	301	Same - Rear end				CAR	M23	N in NEWCASTLE EXP	0	Stationary									
												CAR	F32	N in NEWCASTLE EXP	0	Stationary									
Hunter Region		Wyong LGA				Blue Haven		Motorway Link Ms																	
629464	01/05/2008	Thu	17:30	400 m	E NEWCASTLE EXPR OP	D F	CRV	Fine	Dry	90	1	WAG	M18	E in MOTORWAY LINK MS	50	Proceeding in lane		I	0	1	S F				
E34427257					Dusk	DCA :	804	L Off left bend into obj				Fence													
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp																	
625392	29/05/2008	Thu	16:30	650 m	N SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M21	S in NEWCASTLE EXP	100	Proceeding in lane		N	0	0	F				
E35894480					Daylight	DCA :	704	Right off cway into obj				Tree/bush													
Hunter Region		Wyong LGA				Wyong		Newcastle Exp																	
625466	31/05/2008	Sat	13:00	100 m	S DEEP CK	D F	STR	Fine	Dry	80	2	LOR	M48	N in NEWCASTLE EXP	80	Proceeding in lane		I	0	1					
E33807532					Daylight	DCA :	301	Same - Rear end				CAR	M32	N in NEWCASTLE EXP	80	Proceeding in lane									
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp																	
625538	01/06/2008	Sun	19:40	1.3 km	S MOTORWAY LINK MS	D F	STR	Overcast	Wet	110	2	CAR	M51	N in NEWCASTLE EXP	110	Proceeding in lane		N	0	0					
E34042918					Darkness	DCA :	301	Same - Rear end				4WD	M32	N in NEWCASTLE EXP	80	Proceeding in lane									
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp																	
626186	03/06/2008	Tue	11:45	500 m	N SPARKS ROAD OP	D F	CRV	Raining	Wet	110	1	LOR	M29	S in NEWCASTLE EXP	100	Proceeding in lane		N	0	0	S				
E35670182					Daylight	DCA :	804	R Off left bend into obj				Tree/bush													
Hunter Region		Wyong LGA				Wyong		Newcastle Exp																	
626218	04/06/2008	Wed	11:40	100 m	N ALISON ROAD OP	D F	STR	Raining	Wet	110	1	CAR	M31	S in NEWCASTLE EXP	100	Proceeding in lane		N	0	0					
E34323249					Daylight	DCA :	704	Right off cway into obj				Tree/bush													
Hunter Region		Wyong LGA				Warnervale		Motorway Link Ms																	
628032	20/06/2008	Fri	23:30	500 m	W NEWCASTLE EXPR OP	OTH	CRV	Fine	Dry	100	2	UTE	M33	E in MOTORWAY LINK MS	68	Proceeding in lane		I	0	1	S F				
E34987165					Darkness	DCA :	803	L Off right bend into obj				CAR	F60	E in MOTORWAY LINK MS	100	Proceeding in lane									
												Tree/bush													
												Other non fixed object													
Hunter Region		Wyong LGA				Warnervale		Sparks Rd																	
631596	17/07/2008	Thu	14:00		at NEWCASTLE EXP	TJN	STR	Fine	Dry	80	2	CAR	F57	N in NEWCASTLE EXP	Unk	Proceeding in lane		N	0	0					
E34850663					Daylight	DCA :	101	Adj - Cross traffic				TRK	M41	W in SPARKS RD	Unk	Proceeding in lane									

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors
Natural Lighting																				S F
Hunter Region				Wyong LGA		Wyong				Newcastle Exp										
631787	21/07/2008	Mon	11:52	200 m S	ALISON ROAD OP	D F	STR	Fine	Dry	110	2	BDBL	M31	N in NEWCASTLE EXP	80	Veering left	N	0	0	
E302672191				Daylight		DCA :	307	Same -	Lane change left			CAR	F63	N in NEWCASTLE EXP	80	Proceeding in lane				
Hunter Region				Wyong LGA		Bushells Ridge				Newcastle Exp										
631809	22/07/2008	Tue	16:10	700 m N	MOTORWAY LINK OP	D F	STR	Fine	Wet	110	1	CAR	F42	S in NEWCASTLE EXP	100	Proceeding in lane	I	0	1	F
E35032942				Daylight		DCA :	702	Off carriageway to right												
Hunter Region				Wyong LGA		Warnervale				Sparks Rd										
634858	02/08/2008	Sat	13:50	at	NEWCASTLE EXP	TJN	STR	Fine	Dry	80	2	CAR	F73	W in SPARKS RD	Unk	Turning right	N	0	0	
E35595616				Daylight		DCA :	202	Opp - Right-thru				WAG	M47	E in SPARKS RD	70	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale				Sparks Rd										
639146	14/08/2008	Thu	05:19	20 m W	BURNET RD	2WY	CRV	Fine	Dry	90	1	CAR	M28	W in SPARKS RD	80	Proceeding in lane	I	0	1	
E36998788				Dawn		DCA :	800	Other on curve												
Hunter Region				Wyong LGA		Wyong				Newcastle Exp										
641544	27/08/2008	Wed	08:40	500 m N	ALISON ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M28	S in NEWCASTLE EXP	110	Proceeding in lane	I	0	1	
E67382801				Daylight		DCA :	702	Off carriageway to right												
Hunter Region				Wyong LGA		Tuggerah				Newcastle Exp										
636884	01/09/2008	Mon	15:10	600 m N	WYONG ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M59	N in NEWCASTLE EXP	85	Proceeding in lane	N	0	0	
E37305786				Daylight		DCA :	703	Left off cway into object				Fence								
Hunter Region				Wyong LGA		Jilliby				Newcastle Exp										
640766	02/09/2008	Tue	04:15	150 m S	SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	CAR	U U	S in NEWCASTLE EXP	110	Proceeding in lane	I	0	1	
E34876534				Darkness		DCA :	301	Same - Rear end				CAR	M52	S in NEWCASTLE EXP	110	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
638297	07/09/2008	Sun	11:45	84 m S	ST JOHNS ROAD OP	D F	CRV	Fine	Dry	110	1	WAG	M31	N in NEWCASTLE EXP	110	Proceeding in lane	I	0	2	
E122435496				Daylight		DCA :	803	R Off right bend into obj				Fence								
Hunter Region				Wyong LGA		Mardi				Newcastle Exp										
642252	28/10/2008	Tue	04:35	2 km N	COBBS ROAD OP	D F	STR	Fine	Dry	110	1	TRK	M18	N in NEWCASTLE EXP	90	Proceeding in lane	I	0	1	F
E35310711				Darkness		DCA :	704	Right off cway into obj				Fence								
Hunter Region				Wyong LGA		Mardi				Cobbs Rd										
644382	02/11/2008	Sun	15:55	at	NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	TRK	M93	E in COBBS RD	20	Turning right	N	0	0	
E35648931				Daylight		DCA :	202	Opp - Right-thru				CAR	M37	W in COBBS RD	50	Proceeding in lane				

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors						
Natural Lighting																					S F					
Hunter Region		Wyong LGA				Wyong		Newcastle Exp																		
649474	09/11/2008	Sun	02:10	500 m	N ALISON ROAD OP	D F	STR	Fine	Dry	110	1	CAR	F21	S in NEWCASTLE EXP	110	Proceeding in lane		I	0	1						
E68160102					Darkness	DCA :	703	Left off cway into object					Fence													
Hunter Region		Wyong LGA				Jilliby		Sparks Rd																		
645399	11/11/2008	Tue	15:40		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	CAR	F36	W in SPARKS RD	20	Turning right		N	0	0						
E37715383					Daylight	DCA :	202	Opp - Right-thru					CAR	M45	E in SPARKS RD	60	Proceeding in lane									
Hunter Region		Wyong LGA				Jilliby		Newcastle Exp																		
648531	12/11/2008	Wed	09:50	80 m	N ST JOHNS ROAD OP	D F	STR	Fine	Dry	110	1	WAG	M56	N in NEWCASTLE EXP	100	Proceeding in lane		N	0	0						
E38145686					Daylight	DCA :	703	Left off cway into object					Traffic island etc													
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp																		
646497	15/11/2008	Sat	15:20	1 km	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	4WD	M55	S in NEWCASTLE EXP	Unk	Proceeding in lane		I	0	1	F					
E35895729					Daylight	DCA :	305	Same - Lane side swipe					CAR	F23	S in NEWCASTLE EXP	100	Proceeding in lane									
Hunter Region		Wyong LGA				Warnervale		Sparks Rd																		
646170	18/11/2008	Tue	15:45		at NEWCASTLE EXP	TJN	STR	Raining	Wet	60	2	CAR	F51	N in NEWCASTLE EXP	Unk	Turning right		N	0	0						
E209430592					Daylight	DCA :	104	Adj - Right-thru from right					CAR	F34	W in SPARKS RD	Unk	Proceeding in lane									
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp																		
646593	19/11/2008	Wed	14:00	15 m	N ST JOHNS ROAD OP	D F	CRV	Fine	Dry	110	2	BDBL	M39	N in NEWCASTLE EXP	100	Proceeding in lane		I	0	1						
E68895601					Daylight	DCA :	305	Same - Lane side swipe					CAR	F40	N in NEWCASTLE EXP	110	Proceeding in lane									
Hunter Region		Wyong LGA				Jilliby		Sparks Rd																		
648419	02/12/2008	Tue	14:00		at NEWCASTLE EXP	TJN	STR	Fine	Dry	60	2	CAR	F29	N in NEWCASTLE EXP	Unk	Turning left		I	0	1						
E125546696					Daylight	DCA :	107	Adj - Left-thru from right					4WD	F33	W in SPARKS RD	Unk	Proceeding in lane									
Hunter Region		Wyong LGA				Tuggerah		Newcastle Exp																		
648045	04/12/2008	Thu	16:10	1 km	N COBBS ROAD OP	D F	STR	Fine	Dry	110	2	CAR	M26	N in NEWCASTLE EXP	98	Proceeding in lane		N	0	0						
E36003273					Dusk	DCA :	610	On path - Load hit vehicle					UTE	M67	N in NEWCASTLE EXP	100	Proceeding in lane									
												Falling object														
Hunter Region		Wyong LGA				Jilliby		Newcastle Exp																		
652717	04/01/2009	Sun	15:09	2 km	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	3	M/C	U U	N in NEWCASTLE EXP	146	Proceeding in lane		I	0	1	S					
E36031948					Daylight	DCA :	301	Same - Rear end					CAR	U U	N in NEWCASTLE EXP	0	Broken down									
												M/C	U U	N in NEWCASTLE EXP	146	Proceeding in lane										

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors	
Natural Lighting																				S F	
Hunter Region		Wyong LGA			Warnervale		Sparks Rd														
655203	19/01/2009	Mon	09:17		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	TRK	M70	W in SPARKS RD	Unk	Turning right	I	0	2		
E35830109					Daylight	DCA :	202	Opp - Right-thru				CAR	F68	E in SPARKS RD	Unk	Proceeding in lane					
Hunter Region		Wyong LGA			Jilliby		Sparks Rd														
654109	21/01/2009	Wed	13:10	10 m	E NEWCASTLE EXP	TJN	STR	Fine	Dry	80	2	TRK	M36	W in SPARKS RD	20	Turning right	I	0	1		
E36376804					Daylight	DCA :	202	Opp - Right-thru				CAR	M18	E in SPARKS RD	60	Proceeding in lane					
Hunter Region		Wyong LGA			Jilliby		Newcastle Exp														
654194	25/01/2009	Sun	15:00	556 m	S SPARKS ROAD OP	D F	STR	Fine	Dry	90	2	UTE	M31	N in NEWCASTLE EXP	90	Proceeding in lane	N	0	0		
E36193476					Daylight	DCA :	301	Same - Rear end				OMV	U U	N in NEWCASTLE EXP	Unk	Proceeding in lane					
Hunter Region		Wyong LGA			Mardi		Newcastle Exp														
654481	26/01/2009	Mon	21:30	1 km	S ALISON ROAD OP	D F	CRV	Overcast	Wet	110	1	CAR	F19	N in NEWCASTLE EXP	100	Proceeding in lane	N	0	0		
E36614007					Darkness	DCA :	803	L Off right bend into obj				Fence									
Hunter Region		Wyong LGA			Warnervale		Newcastle Exp														
655086	01/02/2009	Sun	07:30	200 m	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	F33	N in NEWCASTLE EXP	Unk	Proceeding in lane	N	0	0	F	
E37308708					Daylight	DCA :	703	Left off cway into object				Fence									
Hunter Region		Wyong LGA			Warnervale		Newcastle Exp														
655132	06/02/2009	Fri	13:30	400 m	N MOTORWAY LINK OP	D F	STR	Fine	Dry	110	3	CAR	F18	S in NEWCASTLE EXP	95	Proceeding in lane	N	0	0		
E36387006					Daylight	DCA :	305	Same - Lane side swipe				4WD	M57	S in NEWCASTLE EXP	100	Proceeding in lane					
												LOR	M32	S in NEWCASTLE EXP	100	Proceeding in lane					
Hunter Region		Wyong LGA			Warnervale		Sparks Rd														
655548	07/02/2009	Sat	13:30		at NEWCASTLE EXP	TJN	STR	Fine	Dry	80	2	CAR	M18	S in NEWCASTLE EXP	40	Proceeding in lane	N	0	0		
E36114935					Daylight	DCA :	101	Adj - Cross traffic				SEM	M50	E in SPARKS RD	50	Proceeding in lane					
Hunter Region		Wyong LGA			Jilliby		Newcastle Exp														
656514	12/02/2009	Thu	10:10	200 m	N SPARKS OP	D F	STR	Raining	Wet	110	1	WAG	F42	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0		
E36236717					Daylight	DCA :	703	Left off cway into object				Fence									
Hunter Region		Wyong LGA			Warnervale		Newcastle Exp														
669430	12/02/2009	Thu	12:20	575 m	S SPARKS ROAD OP	D F	STR	Overcast	Wet	110	1	CAR	M21	S in NEWCASTLE EXP	Unk	Proceeding in lane	N	0	0		
E36375456					Daylight	DCA :	703	Left off cway into object				Tree/bush									

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors					
Natural Lighting																				S F					
Hunter Region		Wyong LGA			Jilliby		Motorway Link Ms																		
657223	13/02/2009	Fri	17:30	550 m	W NEWCASTLE EXP	OTH	CRV	Raining	Wet	110	1	TRK	M20	W in MOTORWAY LINK MS	80	Proceeding in lane		N	0	0	S				
E523618090				Daylight				DCA : 804	R	Off left bend into obj				Signpost											
Hunter Region		Wyong LGA			Warnervale		Newcastle Exp																		
656266	15/02/2009	Sun	13:10	280 m	S ST JOHNS ROAD OP	D F	CRV	Raining	Wet	110	2	TRK	F18	N in NEWCASTLE EXP	100	Proceeding in lane		N	0	0	S				
E36337923				Daylight				DCA : 803	L	Off right bend into obj				CAR	M20	N in NEWCASTLE EXP	90	Proceeding in lane							
												Fence													
Hunter Region		Wyong LGA			Wyong		Newcastle Exp																		
656302	16/02/2009	Mon	06:20	50 m	S ALISON ROAD OP	D F	STR	Raining	Wet	110	1	TRK	M36	N in NEWCASTLE EXP	110	Proceeding in lane		N	0	0					
E36179552				Daylight				DCA : 703	Left off cway into object			Embankment													
Hunter Region		Wyong LGA			Wyong		Newcastle Exp																		
656551	16/02/2009	Mon	06:40	300 m	S ALISON ROAD OP	D F	STR	Raining	Wet	110	1	CAR	F23	S in NEWCASTLE EXP	90	Proceeding in lane		I	0	1					
E70487501				Daylight				DCA : 703	Left off cway into object			Fence													
Hunter Region		Wyong LGA			Wyong		Newcastle Exp																		
656552	16/02/2009	Mon	06:20	at ALISON ROAD OP		D F	STR	Raining	Wet	110	2	LOR	M43	N in NEWCASTLE EXP	90	Proceeding in lane		I	0	1					
E163979393				Daylight				DCA : 603	On path - Previous accident			TRK			M36	N in NEWCASTLE EXP	0	Broken down							
Hunter Region		Wyong LGA			Wyong		Newcastle Exp																		
657987	01/03/2009	Sun	14:30	10 m	N ALISON ROAD OP	D F	STR	Fine	Dry	110	1	TRK	M21	S in NEWCASTLE EXP	110	Proceeding in lane		N	0	0					
E36259230				Daylight				DCA : 704	Right off cway into obj			Tree/bush													
Hunter Region		Wyong LGA			Wyong		Newcastle Exp																		
662197	06/03/2009	Fri	13:45	1.15 km	S ST JOHNS ROAD OP	D F	CRV	Fine	Dry	110	2	CAR	M20	N in NEWCASTLE EXP	Unk	Incorrect side		I	0	1					
E36932919				Daylight				DCA : 201	Opp - Head on			CAR			F36	S in NEWCASTLE EXP	Unk	Proceeding in lane							
Hunter Region		Wyong LGA			Jilliby		Newcastle Exp																		
662210	15/03/2009	Sun	17:00	10 m	N SPARKS ROAD OP	D F	STR	Raining	Wet	110	2	UTE	M20	S in NEWCASTLE EXP	30	Proceeding in lane		N	0	0					
E37125762				Daylight				DCA : 301	Same - Rear end			CAR			M58	S in NEWCASTLE EXP	0	Stationary							
Hunter Region		Wyong LGA			Wyong		Newcastle Exp																		
660613	25/03/2009	Wed	11:00	350 m	S ALISON ROAD OP	D F	STR	Fine	Dry	110	1	CAR	F35	S in NEWCASTLE EXP	116	Proceeding in lane		N	0	0	S				
E36427320				Daylight				DCA : 704	Right off cway into obj			Fence													

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors
Natural Lighting																				S F
Hunter Region				Wyong LGA		Wyong														
660648	26/03/2009	Thu	18:45	400 m	N ALISON ROAD OP	D F	STR	Raining	Wet	110	1	CAR	M29	S in NEWCASTLE EXP	95	Proceeding in lane	N	0	0	
E36828811					Daylight	DCA :	703	Left off cway into object				Fence								
Hunter Region				Wyong LGA		Bushells Ridge														
663803	27/03/2009	Fri	12:20	150 m	E NEWCASTLE EXPR OP	DIV	STR	Raining	Wet	100	1	WAG	F38	E in MOTORWAY LINK MS	80	Proceeding in lane	I	0	1	
E36749522					Daylight	DCA :	703	Left off cway into object				Tree/bush								
Hunter Region				Wyong LGA		Jilliby														
664815	27/03/2009	Fri	12:30	150 m	E NEWCASTLE EXPR OP	DIV	STR	Raining	Wet	100	2	LOR	M66	E in MOTORWAY LINK MS	80	Proceeding in lane	I	0	1	
E37044204					Daylight	DCA :	301	Same - Rear end				4WD	M43	E in MOTORWAY LINK MS	60	Proceeding in lane				
Hunter Region				Wyong LGA		Mardi														
661346	31/03/2009	Tue	09:25		at COBBS ROAD OP	D F	STR	Raining	Wet	110	2	CAR	F54	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	
E36764014					Daylight	DCA :	305	Same - Lane side swipe				CAR	M55	S in NEWCASTLE EXP	100	Proceeding in lane				
Hunter Region				Wyong LGA		Wyong														
662805	01/04/2009	Wed	05:10	50 m	S WYONG RIVER BDGE	D F	STR	Raining	Wet	110	2	4WD	M24	N in NEWCASTLE EXP	Unk	Proceeding in lane	N	0	0	
E37077304					Darkness	DCA :	305	Same - Lane side swipe				SEM	M43	N in NEWCASTLE EXP	Unk	Proceeding in lane				
Hunter Region				Wyong LGA		Mardi														
663897	07/04/2009	Tue	08:55		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	CAR	F37	E in WYONG RD	20	Turning right	I	0	4	
E36721352					Daylight	DCA :	202	Opp - Right-thru				LOR	M27	W in WYONG RD	50	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale														
664238	16/04/2009	Thu	11:20	100 m	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M67	S in NEWCASTLE EXP	100	Proceeding in lane	I	0	1	
E38988489					Daylight	DCA :	703	Left off cway into object				Fence								
Hunter Region				Wyong LGA		Warnervale														
674423	16/04/2009	Thu	14:50		at NEWCASTLE EXP	TJN	STR	Fine	Dry	80	2	CAR	F37	W in SPARKS RD	Unk	Turning right	I	0	3	
E37168005					Daylight	DCA :	202	Opp - Right-thru				CAR	F56	E in SPARKS RD	Unk	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale														
664256	19/04/2009	Sun	19:00	780 m	S SPARKS ROAD OP	D F	STR	Raining	Wet	110	1	UTE	M23	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	
E36947817					Darkness	DCA :	704	Right off cway into obj				Tree/bush								

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors					
Natural Lighting																				S F					
Hunter Region		Wyong LGA				Jilliby		Newcastle Exp																	
676454	11/06/2009	Thu	21:30	1 km N	SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	F28	S in NEWCASTLE EXP	Unk Proceeding in lane		N	0	0	F					
E37589859					Darkness	DCA :	701	Off carriageway to left																	
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp																	
671569	18/06/2009	Thu	14:00	1.8 km N	ST JOHNS ROAD OP	D F	STR	Raining	Wet	110	1	WAG	M32	S in NEWCASTLE EXP	110 Proceeding in lane		I	0	1						
E38000358					Daylight	DCA :	704	Right off cway into obj				Tree/bush													
Hunter Region		Wyong LGA				Jilliby		Sparks Rd																	
683982	20/06/2009	Sat	23:40		at NEWCASTLE EXP	TJN	STR	Overcast	Wet	70	1	CAR	M35	S in SPARKS RD	Unk Proceeding in lane		I	0	2						
E37677259					Darkness	DCA :	703	Left off cway into object				Traffic island etc													
Hunter Region		Wyong LGA				Warnervale		Motorway Link Ms																	
672750	24/06/2009	Wed	17:05	2 km E	NEWCASTLE EXP	DIV	STR	Fine	Dry	100	1	CAR	M22	W in MOTORWAY LINK MS	100 Proceeding in lane		I	0	1						
E37458044					Daylight	DCA :	609	On path - Hit animal				Kangaroo													
Hunter Region		Wyong LGA				Mardi		Newcastle Exp																	
675790	10/07/2009	Fri	07:15	1 km N	COBBS ROAD OP	D F	STR	Overcast	Wet	110	1	UTE	M46	S in NEWCASTLE EXP	100 Proceeding in lane		N	0	0						
E38731765					Daylight	DCA :	703	Left off cway into object				Fence													
Hunter Region		Wyong LGA				Wyong		Newcastle Exp																	
675370	13/07/2009	Mon	09:20	2.035 km S	ST JOHNS ROAD OP	D F	STR	Overcast	Dry	110	3	OMV	U U	S in NEWCASTLE EXP	Unk Proceeding in lane		I	0	1						
E37902976					Daylight	DCA :	4	Ped - On carriageway				CAR	M U	S in NEWCASTLE EXP	0 Broken down										
												PED	M53	NEWCASTLE EXP	Stand on carriageway										
Hunter Region		Wyong LGA				Jilliby		Sparks Rd																	
676499	15/07/2009	Wed	18:45		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	UTE	M45	W in SPARKS RD	1 Turning right		N	0	0						
E39673687					Darkness	DCA :	202	Opp - Right-thru				CAR	M17	E in SPARKS RD	70 Proceeding in lane										
Hunter Region		Wyong LGA				Mardi		Wyong Rd																	
675868	15/07/2009	Wed	16:50	30 m E	NEWCASTLE EXP	DIV	STR	Fine	Dry	70	3	CAR	F17	W in WYONG RD	10 Proceeding in lane		N	0	0						
E37751375					Dusk	DCA :	301	Same - Rear end				CAR	F65	W in WYONG RD	0 Stationary										
												CAR	F36	WYONG RD	0 Stationary										
Hunter Region		Wyong LGA				Warnervale		Sparks Rd																	
675663	24/07/2009	Fri	05:50		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	CAR	F21	W in SPARKS RD	10 Turning right		I	0	4						
E38183557					Dawn	DCA :	202	Opp - Right-thru				CAR	F21	E in SPARKS RD	60 Proceeding in lane										

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors
Natural Lighting																				S F
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
678335	26/07/2009	Sun	10:20	50 m	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	F50	S in NEWCASTLE EXP	90	Veering right	N	0	0	
E38190021					Daylight	DCA :	703	Left off cway into object				Tree/bush								
Hunter Region				Wyong LGA		Jilliby				Newcastle Exp										
678707	09/08/2009	Sun	23:50	500 m	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	CAR	M26	N in NEWCASTLE EXP	110	Proceeding in lane	I	0	1	F
E548752690					Darkness	DCA :	301	Same - Rear end				WAG	F23	N in NEWCASTLE EXP	110	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
679348	15/08/2009	Sat	10:30		at CALTEX SERVICE ENT	OTH	STR	Fine	Dry	110	2	CAR	M30	N in NEWCASTLE EXP	Unk	Proceeding in lane	I	0	1	
E132204496					Daylight	DCA :	301	Same - Rear end				4WD	F56	N in NEWCASTLE EXP	10	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale				Sparks Rd										
681391	18/08/2009	Tue	17:50		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	CAR	M26	W in SPARKS RD	60	Turning right	I	0	2	
E38425638					Daylight	DCA :	202	Opp - Right-thru				CAR	M37	E in SPARKS RD	70	Proceeding in lane				
Hunter Region				Wyong LGA		Wyong				Newcastle Exp										
679960	20/08/2009	Thu	01:05	9 m	Unk MCPHERSON ROAD OP	D F	STR	Fine	Dry	Unk	2	OMV	U U	S in NEWCASTLE EXP	Unk	Proceeding in lane	N	0	0	
E40617881					Darkness	DCA :	603	On path - Previous accident				CAR		S in NEWCASTLE EXP	0	Broken down				
Hunter Region				Wyong LGA		Wyong				Newcastle Exp										
679965	20/08/2009	Thu	01:05		at MCPHERSON ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M19	S in NEWCASTLE EXP	100	Proceeding in lane	I	0	2	
E40617881					Darkness	DCA :	703	Left off cway into object				Fence								
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
680260	31/08/2009	Mon	13:00	1 km	N SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	OMV	M31	S in NEWCASTLE EXP	Unk	Proceeding in lane	I	0	1	
E226686892					Daylight	DCA :	301	Same - Rear end				CAR	M76	S in NEWCASTLE EXP	Unk	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
684318	09/09/2009	Wed	16:45	35 m	N ST JOHNS ROAD OP	D F	CRV	Fine	Dry	110	2	CAR	F23	S in NEWCASTLE EXP	100	Proceeding in lane	I	0	1	S
E38912451					Daylight	DCA :	305	Same - Lane side swipe				CAR	M30	S in NEWCASTLE EXP	100	Proceeding in lane				
Hunter Region				Wyong LGA		Tuggerah				Cobbs Rd										
683048	12/09/2009	Sat	14:20	200 m	E NEWCASTLE EXPR OP	OTH	STR	Fine	Dry	80	1	M/C	F50	E in COBBS RD	60	Proceeding in lane	I	0	1	F
E38353372					Daylight	DCA :	701	Off carriageway to left												

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors					
Natural Lighting																				S F					
Hunter Region		Wyong LGA				Jilliby		Newcastle Exp																	
683131	18/09/2009	Fri	18:34	500 m	S	SPARKS ROAD OP	D F	STR	Fine	Dry	110	3	VAN	M31	N in NEWCASTLE EXP	105	Proceeding in lane	I	0	3					
E38529156						Darkness	DCA :	301	Same - Rear end				WAG	M42	N in NEWCASTLE EXP	10	Proceeding in lane								
													CAR	M39	N in NEWCASTLE EXP	0	Stationary								
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp																	
682428	18/09/2009	Fri	13:46	580 m	S	SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	SEM	M35	S in NEWCASTLE EXP	90	Merging	N	0	0					
E38235044						Daylight	DCA :	306	Same - Lane change right				CAR	F18	S in NEWCASTLE EXP	110	Proceeding in lane								
Hunter Region		Wyong LGA				Bushells Ridge		Newcastle Exp																	
685752	10/10/2009	Sat	20:15	300 m	N	MOTORWAY LINK OP	D F	STR	Raining	Wet	110	1	CAR	M23	S in NEWCASTLE EXP	115	Veering right	N	0	0					
E40026655						Darkness	DCA :	704	Right off cway into obj						Traffic island etc					S					
Hunter Region		Wyong LGA				Jilliby		Newcastle Exp																	
685452	10/10/2009	Sat	13:45	1 km	N	SPARKES RD	D F	STR	Overcast	Dry	110	2	VAN	M65	S in NEWCASTLE EXP	100	Proceeding in lane	N	0	0					
E126647798						Daylight	DCA :	305	Same - Lane side swipe				VAN	F36	S in NEWCASTLE EXP	100	Proceeding in lane								
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp																	
687000	10/10/2009	Sat	00:50	2 km	S	SPARKS RD	D F	CRV	Fine	Dry	110	2	LOR	M61	S in NEWCASTLE EXP	90	Proceeding in lane	I	0	1					
E38726076						Darkness	DCA :	2	Ped - emerging				PED	M18	W in NEWCASTLE EXP		Step off/onto kerb								
Hunter Region		Wyong LGA				Jilliby		Newcastle Exp																	
685973	17/10/2009	Sat	06:50	500 m	S	SPARKS RD	D F	STR	Fine	Dry	110	4	LOR	M29	N in NEWCASTLE EXP	95	Veering right	N	0	0					
E39633665						Daylight	DCA :	301	Same - Rear end				TRK	F59	N in NEWCASTLE EXP	100	Proceeding in lane								
													4WD	M45	N in NEWCASTLE EXP	80	Proceeding in lane								
													SEM	M U	N in NEWCASTLE EXP	90	Proceeding in lane								
Hunter Region		Wyong LGA				Warnervale		Motorway Link Ms																	
686842	25/10/2009	Sun	13:55	500 m	E	NEWCASTLE EXPR OP	DIV	CRV	Raining	Wet	100	1	CAR	M46	N in MOTORWAY LINK MS	100	Proceeding in lane	I	0	1					
E38810147						Daylight	DCA :	804	L Off left bend into obj						Tree/bush					S					
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp																	
687231	28/10/2009	Wed	19:45		at	SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M60	S in NEWCASTLE EXP	55	Proceeding in lane	N	0	0					
E38972934						Darkness	DCA :	702	Off carriageway to right																
Hunter Region		Wyong LGA				Warnervale		Sparks Rd																	
688295	04/11/2009	Wed	07:00		at	NEWCASTLE EXP	TJN	STR	Overcast	Dry	40	2	TRK	M55	W in SPARKS RD	10	Turning right	N	0	0					
E39381669						Daylight	DCA :	202	Opp - Right-thru				TRK	M45	E in SPARKS RD	40	Proceeding in lane								

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors						
Natural Lighting																					S F					
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp																		
689255	08/11/2009	Sun	13:25	2 km	S	SPARKS RD	D F	CRV	Overcast	Dry	110	2	WAG	M67	N in NEWCASTLE EXP	100	Proceeding in lane	I	0	2						
E128673897						Daylight	DCA :	301	Same - Rear end				TRK	M25	N in NEWCASTLE EXP	80	Proceeding in lane									
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp																		
697576	15/11/2009	Sun	03:58	500 m	S	ST JOHNS ROAD OP	D F	STR	Fine	Dry	110	1	4WD	M19	S in NEWCASTLE EXP	110	Proceeding in lane	I	0	1	F					
E38997154						Darkness	DCA :	702	Off carriageway to right																	
Hunter Region		Wyong LGA				Warnervale		Sparks Rd																		
691490	19/11/2009	Thu	14:29			at NEWCASTLE EXP	TJN	STR	Fine	Dry	40	2	CAR	F51	N in NEWCASTLE EXP	20	Turning right	I	0	1						
E39924839						Daylight	DCA :	104	Adj - Right-thru from right				TRK	M51	W in SPARKS RD	40	Proceeding in lane									
Hunter Region		Wyong LGA				Jilliby		Newcastle Exp																		
697586	29/11/2009	Sun	13:30	480 m	N	SPARKS ROAD OP	D F	CRV	Fine	Dry	110	2	BDBL	M64	N in NEWCASTLE EXP	95	Proceeding in lane	I	0	2						
E38786330						Daylight	DCA :	301	Same - Rear end				WAG	M65	N in NEWCASTLE EXP	85	Proceeding in lane									
Hunter Region		Wyong LGA				Jilliby		Newcastle Exp																		
691639	02/12/2009	Wed	15:20	200 m	N	SPARKS RD	D F	STR	Fine	Dry	110	1	CAR	M47	S in NEWCASTLE EXP	Unk	Proceeding in lane	N	0	0	F					
E39595958						Daylight	DCA :	703	Left off cway into object				Fence													
Hunter Region		Wyong LGA				Warnervale		Motorway Link Ms																		
704846	03/12/2009	Thu	08:00	1 km	E	NEWCASTLE EXPR OP	DIV	STR	Fine	Dry	50	2	4WD	F38	W in MOTORWAY LINK MS	Unk	Proceeding in lane	I	0	1						
E39700528						Daylight	DCA :	301	Same - Rear end				4WD	M45	W in MOTORWAY LINK MS	5	Proceeding in lane									
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp																		
692151	03/12/2009	Thu	08:20	1.23 km	S	MOTORWAY LINK MS	D F	STR	Fine	Dry	110	3	CAR	F18	S in NEWCASTLE EXP	Unk	Proceeding in lane	N	0	0						
E39128433						Daylight	DCA :	305	Same - Lane side swipe				CAR	F30	S in NEWCASTLE EXP	100	Proceeding in lane									
													CAR	F35	S in NEWCASTLE EXP	100	Proceeding in lane									
Hunter Region		Wyong LGA				Warnervale		Sparks Rd																		
692486	14/12/2009	Mon	17:20	200 m	E	NEWCASTLE EXPR OP	2WY	STR	Overcast	Wet	70	3	CAR	M18	E in SPARKS RD	80	Proceeding in lane	N	0	0	S					
E39511521						Daylight	DCA :	601	On path - Parked				CAR	M42	E in SPARKS RD	0	Parked									
													4WD		E in SPARKS RD	0	Parked									
Hunter Region		Wyong LGA				Warnervale		Warren Rd																		
701273	14/12/2009	Mon	16:00	50 m	E	BURNET RD	2WY	STR	Raining	Wet	50	1	TRK	M22	E in WARREN RD	25	Proceeding in lane	I	0	1						
E40476473						Daylight	DCA :	703	Left off cway into object				Tree/bush													

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors
Natural Lighting																				S F
Hunter Region				Wyong LGA		Mardi				Cobbs Rd										
695564	29/12/2009	Tue	04:10	20 m E	NEWCASTLE EXPR OP	DIV	STR	Fine	Dry	60	1	SEM	M34	W in COBBS RD	10	Proceeding in lane	N	0	0	
E39244652				Dawn		DCA :	600	On path - Other												
Hunter Region				Wyong LGA		Jilliby				Newcastle Exp										
695795	05/01/2010	Tue	12:05	1.1 km N	SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	LOR	M47	S in NEWCASTLE EXP	100	Proceeding in lane	I	0	1	F
E39817650				Daylight		DCA :	704	Right off cway into obj				Tree/bush								
Hunter Region				Wyong LGA		Mardi				Newcastle Exp										
698800	17/01/2010	Sun	14:15	500 m N	WYONG ROAD OP	D F	STR	Raining	Wet	110	1	CAR	M44	N in NEWCASTLE EXP	85	Proceeding in lane	N	0	0	
E39935250				Daylight		DCA :	704	Right off cway into obj				Fence								
Hunter Region				Wyong LGA		Bushells Ridge				Motorway Link Ms										
698404	03/02/2010	Wed	05:50	500 m E	NEWCASTLE EXP	DIV	CRV	Raining	Wet	100	1	UTE	M42	W in MOTORWAY LINK MS	80	Proceeding in lane	N	0	0	S
E40336674				Dawn		DCA :	803 L	Off right bend into obj				Tree/bush								
Hunter Region				Wyong LGA		Mardi				Newcastle Exp										
698492	05/02/2010	Fri	14:25	800 m N	COBBS ROAD OP	D F	STR	Raining	Wet	110	2	TRK	M71	N in NEWCASTLE EXP	100	Proceeding in lane	N	0	0	
E40058338				Daylight		DCA :	305	Same - Lane side swipe				CAR	F22	N in NEWCASTLE EXP	90	Proceeding in lane				
Hunter Region				Wyong LGA		Mardi				Newcastle Exp										
698500	05/02/2010	Fri	12:18	300 m N	COBBS ROAD OP	D F	STR	Raining	Wet	110	1	TRK	M59	N in NEWCASTLE EXP	80	Proceeding in lane	N	0	0	
E40206240				Daylight		DCA :	704	Right off cway into obj				Fence								
Hunter Region				Wyong LGA		Warnervale				Sparks Rd										
698656	08/02/2010	Mon	17:30	100 m E	NEWCASTLE EXPR OP	DIV	STR	Fine	Dry	70	3	CAR	M25	E in SPARKS RD	50	Proceeding in lane	N	0	0	
E40067821				Daylight		DCA :	301	Same - Rear end				CAR	F24	E in SPARKS RD	0	Stationary				
												CAR	F21	E in SPARKS RD	5	Proceeding in lane				
Hunter Region				Wyong LGA		Bushells Ridge				Newcastle Exp										
700278	23/02/2010	Tue	01:00	3 km N	SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M36	S in NEWCASTLE EXP	100	Proceeding in lane	N	0	0	F
E39951972				Darkness		DCA :	703	Left off cway into object				Fence								
Hunter Region				Wyong LGA		Jilliby				Motorway Link Ms										
702242	02/03/2010	Tue	10:14	15 m E	NEWCASTLE EXP	OTH	CRV	Fine	Dry	110	2	4WD	F51	S in MOTORWAY LINK MS	50	Proceeding in lane	I	0	1	
E40485071				Daylight		DCA :	301	Same - Rear end				CAR	F30	S in MOTORWAY LINK MS	50	Proceeding in lane				

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors	
Natural Lighting																				S F	
Hunter Region		Wyong LGA				Warnervale				Newcastle Exp											
701726	04/03/2010	Thu	13:59	100 m	N ST JOHNS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	F17	S in NEWCASTLE EXP	115	Proceeding in lane	I	0	1	S	
E42271784		Daylight				DCA : 702 Off carriageway to right															
Hunter Region		Wyong LGA				Jilliby				Sparks Rd											
704346	09/03/2010	Tue	14:20		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	WAG	F27	E in SPARKS RD	15	Turning right	I	0	1		
E239369192		Daylight				DCA : 202 Opp - Right-thru 4WD M53 W in SPARKS RD 70 Proceeding in lane															
Hunter Region		Wyong LGA				Warnervale				Newcastle Exp											
702552	12/03/2010	Fri	16:20	250 m	N ST JOHNS ROAD OP	D F	STR	Fine	Dry	110	2	CAR	F22	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0		
E239594392		Daylight				DCA : 301 Same - Rear end BUS M26 S in NEWCASTLE EXP 90 Proceeding in lane															
Hunter Region		Wyong LGA				Wyong				Newcastle Exp											
704038	26/03/2010	Fri	06:10	75 m	S ALISON ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M22	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0		
E581382490		Dawn				DCA : 607 On path - Hit temp object Other non fixed object															
Hunter Region		Wyong LGA				Jilliby				Newcastle Exp											
706783	16/04/2010	Fri	20:20	1.2 km	S MOTORWAY LINK OP	D F	STR	Fine	Dry	110	2	TRK	M69	S in NEWCASTLE EXP	Unk	Proceeding in lane	I	0	2		
E133667197		Darkness				DCA : 301 Same - Rear end CAR M53 S in NEWCASTLE EXP Unk Proceeding in lane															
Hunter Region		Wyong LGA				Warnervale				Newcastle Exp											
707420	27/04/2010	Tue	12:23	620 m	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	4	OMV	U U	S in NEWCASTLE EXP	Unk	Veering right	N	0	0	S	
E41195551		Daylight				DCA : 306 Same - Lane change right LOR M33 S in NEWCASTLE EXP 100 Proceeding in lane WAG M U S in NEWCASTLE EXP 105 Proceeding in lane CAR F30 S in NEWCASTLE EXP 105 Proceeding in lane															
Hunter Region		Wyong LGA				Jilliby				Newcastle Exp											
709506	07/05/2010	Fri	17:45		at SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	CAR	M42	N in NEWCASTLE EXP	60	Proceeding in lane	N	0	0		
E40985657		Dusk				DCA : 301 Same - Rear end CAR M35 N in NEWCASTLE EXP 40 Proceeding in lane															
Hunter Region		Wyong LGA				Mardi				Wyong Rd											
716624	19/05/2010	Wed	09:45		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	SEM	M56	S in NEWCASTLE EXP	20	Turning right	I	0	2		
E41540042		Daylight				DCA : 104 Adj - Right-thru from right TRK M81 E in WYONG RD 60 Proceeding in lane															
Hunter Region		Wyong LGA				Jilliby				Newcastle Exp											
712603	31/05/2010	Mon	15:55	2 km	S SPARKS ROAD OP	D F	CRV	Raining	Wet	110	2	CAR	F78	S in NEWCASTLE EXP	100	Proceeding in lane	I	0	1		
E79130802		Daylight				DCA : 301 Same - Rear end TRK M27 S in NEWCASTLE EXP 90 Proceeding in lane															

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors	
Natural Lighting																					S F
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp													
714965	31/05/2010	Mon	16:40	2 km N	SPARKS ROAD OP	D F	STR	Raining	Wet	110	2	UTE	M65	S in NEWCASTLE EXP	60	Proceeding in lane	I	0	1		
E40939333				Dusk		DCA :	603	On path - Previous accident				LOR	M49	S in NEWCASTLE EXP	0	Broken down					
Hunter Region		Wyong LGA				Warnervale		Newcastle Exp													
712668	03/06/2010	Thu	02:20	300 m S	ST JOHNS ROAD OP	D F	STR	Overcast	Dry	110	1	TRK	M39	S in NEWCASTLE EXP	100	Proceeding in lane	N	0	0	F	
E41425358				Darkness		DCA :	704	Right off cway into obj				Tree/bush									
Hunter Region		Wyong LGA				Jilliby		Newcastle Exp													
712705	04/06/2010	Fri	13:30	100 m N	SPARKS ROAD OP	D F	STR	Overcast	Wet	110	1	WAG	F28	S in NEWCASTLE EXP	70	Proceeding in lane	I	0	2		
E41352840				Daylight		DCA :	703	Left off cway into object				Tree/bush									
Hunter Region		Wyong LGA				Mardi		Newcastle Exp													
727624	04/06/2010	Fri	15:26	250 m N	ALISON ROAD OP	D F	STR	Raining	Wet	110	1	TRK	M39	N in NEWCASTLE EXP	Unk	Proceeding in lane	I	0	1		
E592711090				Daylight		DCA :	703	Left off cway into object				Signpost									
Hunter Region		Wyong LGA				Wyong		Newcastle Exp													
712774	08/06/2010	Tue	16:15	3.5 km S	SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	CAR	F39	N in NEWCASTLE EXP	110	Veering right	N	0	0		
E41328003				Daylight		DCA :	306	Same - Lane change right				4WD	M43	N in NEWCASTLE EXP	Unk	Proceeding in lane					
Hunter Region		Wyong LGA				Jilliby		Sparks Rd													
715675	13/06/2010	Sun	17:52		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	CAR	M23	S in NEWCASTLE EXP	5	Turning right	N	0	0		
E41078827				Darkness		DCA :	104	Adj - Right-thru from right				CAR	F20	E in SPARKS RD	60	Proceeding in lane					
Hunter Region		Wyong LGA				Wyong		Newcastle Exp													
715962	16/06/2010	Wed	20:24	4.15 km S	SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	SEM	M41	N in NEWCASTLE EXP	100	Proceeding in lane	N	0	0		
E41814342				Darkness		DCA :	301	Same - Rear end				TRK	F41	N in NEWCASTLE EXP	100	Proceeding in lane					
Hunter Region		Wyong LGA				Mardi		Newcastle Exp													
716732	23/06/2010	Wed	08:15	700 m S	YARRAMALONG RO OP	D F	STR	Fine	Wet	110	1	WAG	M59	N in NEWCASTLE EXP	90	Proceeding in lane	N	0	0		
E41122623				Daylight		DCA :	702	Off carriageway to right													
Hunter Region		Wyong LGA				Wyong		Newcastle Exp													
717941	18/07/2010	Sun	15:40	150 m N	ALISON ROAD OP	D F	STR	Fine	Dry	110	3	4WD	M25	S in NEWCASTLE EXP	65	Proceeding in lane	N	0	0		
E42326639				Daylight		DCA :	301	Same - Rear end				CAR	M40	S in NEWCASTLE EXP	90	Proceeding in lane					
												CAR	F20	S in NEWCASTLE EXP	Unk	Proceeding in lane					

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors
Natural Lighting																				S F
Hunter Region				Wyong LGA		Wyong														
717947	18/07/2010	Sun	16:45	150 m	N ALISON ROAD OP	D F	STR	Fine	Dry	110	2	CAR	F21	S in NEWCASTLE EXP	100	Proceeding in lane	N	0	0	
E80256901					Daylight	DCA :	603	On path - Previous accident				4WD	M25	S in NEWCASTLE EXP	0	Broken down				
Hunter Region				Wyong LGA		Mardi														
720113	24/07/2010	Sat	15:45	500 m	S ALISON ROAD OP	D F	STR	Fine	Dry	110	2	CAR	F37	N in NEWCASTLE EXP	Unk	Veering left	N	0	0	
E42362341					Daylight	DCA :	307	Same - Lane change left				CAR	M36	N in NEWCASTLE EXP	110	Proceeding in lane				
Hunter Region				Wyong LGA		Tuggerah														
720904	26/07/2010	Mon	18:00	200 m	E NEWCASTLE EXP	DIV	STR	Fine	Dry	70	2	CAR	F25	W in COBBS RD	55	Proceeding in lane	I	0	1	
E41456325					Dusk	DCA :	301	Same - Rear end				CAR	F21	W in COBBS RD	0	Stationary				
Hunter Region				Wyong LGA		Warnervale														
719358	26/07/2010	Mon	11:20		at NEWCASTLE EXP	TJN	STR	Fine	Dry	80	2	CAR	F37	W in SPARKS RD	20	Proceeding in lane	N	0	0	
E41863162					Daylight	DCA :	301	Same - Rear end				LOR	M56	W in SPARKS RD	20	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale														
719907	03/08/2010	Tue	10:27	2.55 km	S SPARKS ROAD OP	D F	CRV	Raining	Wet	110	1	TRK	M18	N in NEWCASTLE EXP	110	Perform U-turn	I	0	1	S
E41367225					Daylight	DCA :	409	Manov - U-turn into fixed obje				Drain/culvert								
Hunter Region				Wyong LGA		Warnervale														
719948	04/08/2010	Wed	08:00	20 m	E NEWCASTLE EXP	OTH	STR	Fine	Dry	110	2	CAR	F18	W in MOTORWAY LINK MS	95	Proceeding in lane	N	0	0	
E173024094					Daylight	DCA :	301	Same - Rear end				WAG	F40	W in MOTORWAY LINK MS	Unk	Proceeding in lane				
Hunter Region				Wyong LGA		Mardi														
721174	16/08/2010	Mon	11:30	1 m	N DEEP CREEK BDGE	D F	STR	Fine	Dry	110	1	WAG	M73	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	
E135182298					Daylight	DCA :	704	Right off cway into obj				Fence								
Hunter Region				Wyong LGA		Mardi														
722658	27/08/2010	Fri	19:10	500 m	N WYONG ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M46	N in NEWCASTLE EXP	100	Proceeding in lane	N	0	0	
E44197283					Darkness	DCA :	607	On path - Hit temp object				Other non fixed object								
Hunter Region				Wyong LGA		Jilliby														
725393	31/08/2010	Tue	12:20	1.42 km	S MOTORWAY LINK OP	D F	STR	Fine	Dry	110	1	CAR	M67	N in NEWCASTLE EXP	100	Proceeding in lane	I	0	1	
E41638344					Daylight	DCA :	702	Off carriageway to right												
Hunter Region				Wyong LGA		Jilliby														
725434	05/09/2010	Sun	10:29	440 m	N ST JOHNS ROAD OP	D F	CRV	Unk	Dry	110	2	CAR	M25	N in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	
E41915447					Daylight	DCA :	305	Same - Lane side swipe				CAR	F25	N in NEWCASTLE EXP	110	Proceeding in lane				

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors					
Natural Lighting																				S F					
Hunter Region		Wyong LGA				Bushells Ridge			Newcastle Exp																
725083	06/09/2010	Mon	15:30	200 m N	MOTORWAY LINK MS	D F	STR	Fine	Dry	110	1	CAR	M32	S in NEWCASTLE EXP	110	Proceeding in lane		N	0	0					
E42324658				Daylight		DCA :	703	Left off cway into object					Fence												
Hunter Region		Wyong LGA				Jilliby			Newcastle Exp																
730620	10/09/2010	Fri	17:40	5 m S	SPARKS RD	TJN	STR	Fine	Dry	70	2	4WD	M41	N in NEWCASTLE EXP	Unk	Proceeding in lane		N	0	0					
E42023556				Dusk		DCA :	301	Same - Rear end					CAR	M42	N in NEWCASTLE EXP	0	Stationary								
Hunter Region		Wyong LGA				Wyong			Newcastle Exp																
725536	13/09/2010	Mon	17:30	60 m N	ALISON ROAD OP	D F	STR	Fine	Dry	110	2	CAR	F22	N in NEWCASTLE EXP	20	Proceeding in lane		N	0	0					
E41894936				Dusk		DCA :	301	Same - Rear end					CAR	U 49	N in NEWCASTLE EXP	Unk	Proceeding in lane								
Hunter Region		Wyong LGA				Bushells Ridge			Motorway Link Ms																
728771	20/09/2010	Mon	07:25	300 m E	NEWCASTLE EXPR OP	DIV	CRV	Fine	Dry	100	1	CAR	M44	N in MOTORWAY LINK MS	Unk	Proceeding in lane		I	0	1	S F				
E42259626				Daylight		DCA :	804	R	Off left bend into obj					Tree/bush											
Hunter Region		Wyong LGA				Jilliby			Newcastle Exp																
727880	09/10/2010	Sat	11:30	500 m N	SPARKS ROAD OP	D F	STR	Overcast	Dry	110	2	LOR	M76	N in NEWCASTLE EXP	100	Veering left		N	0	0					
E41737920				Daylight		DCA :	307	Same - Lane change left					CAR	M47	N in NEWCASTLE EXP	100	Proceeding in lane								
Hunter Region		Wyong LGA				Jilliby			Sparks Rd																
728267	14/10/2010	Thu	07:30	80 m E	NEWCASTLE EXP	DIV	STR	Overcast	Wet	70	1	CAR	M18	E in SPARKS RD	70	Proceeding in lane		N	0	0					
E42631149				Daylight		DCA :	703	Left off cway into object					Utility pole												
Hunter Region		Wyong LGA				Warnervale			Newcastle Exp																
729325	23/10/2010	Sat	15:20	1 km S	SPARKS ROAD OP	D F	STR	Raining	Wet	110	1	CAR	M67	N in NEWCASTLE EXP	105	Proceeding in lane		N	0	0					
E370070291				Daylight		DCA :	704	Right off cway into obj					Tree/bush												
Hunter Region		Wyong LGA				Tuggerah			Wyong Rd																
729722	24/10/2010	Sun	12:05		at NEWCASTLE EXP	TJN	STR	Raining	Wet	70	1	4WD	F53	E in WYONG RD	30	Proceeding in lane		N	0	0					
E42461848				Daylight		DCA :	703	Left off cway into object					Other fixed object												
Hunter Region		Wyong LGA				Warnervale			Newcastle Exp																
730808	03/11/2010	Wed	20:00	835 m N	SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M18	S in NEWCASTLE EXP	90	Proceeding in lane		N	0	0					
E42815479				Darkness		DCA :	704	Right off cway into obj					Tree/bush												
Hunter Region		Wyong LGA				Jilliby			Newcastle Exp																
741417	08/11/2010	Mon	07:58		at SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	LOR	M45	S in NEWCASTLE EXP	100	Proceeding in lane		I	0	1					
E43509708				Daylight		DCA :	703	Left off cway into object					Fence												

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Natural Lighting																				S F
Hunter Region				Wyong LGA		Warnervale		Newcastle Exp												
733718	18/11/2010	Thu	11:50	100 m N	SPARKS ROAD OP	D F	STR	Overcast	Dry	110	1	CAR	M67	S in NEWCASTLE EXP	100	Proceeding in lane	N	0	0	
E43995355					Daylight	DCA :	607	On path - Hit temp object					Other non fixed object							
Hunter Region				Wyong LGA		Mardi		Newcastle Exp												
736043	20/11/2010	Sat	06:05	950 m S	ALISON ROAD OP	D F	STR	Fine	Dry	110	1	CAR	M29	N in NEWCASTLE EXP	100	Proceeding in lane	N	0	0	
E42799604					Daylight	DCA :	703	Left off cway into object					Fence							
Hunter Region				Wyong LGA		Warnervale		Newcastle Exp												
733102	27/11/2010	Sat	07:45	1.557 km N	ALISON ROAD OP	D F	STR	Fine	Dry	110	2	CAR	F57	N in NEWCASTLE EXP	105	Veering right	I	0	1	
E44751589					Daylight	DCA :	306	Same - Lane change right					CAR M75	N in NEWCASTLE EXP	110	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale		Newcastle Exp												
733215	01/12/2010	Wed	23:30		at CALTEX SERVICE ENT	OTH	STR	Raining	Wet	20	1	BDBL	M39	N in NEWCASTLE EXP	40	Proceeding in lane	N	0	0	S
E42954257					Darkness	DCA :	704	Right off cway into obj					Tree/bush							
Hunter Region				Wyong LGA		Wyong		Newcastle Exp												
739792	01/12/2010	Wed	11:00		at ALISON ROAD OP	D F	STR	Raining	Wet	110	2	CAR	M28	N in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	
E42623014					Daylight	DCA :	703	Left off cway into object					LOR M43	N in NEWCASTLE EXP	100	Proceeding in lane				
													Fence							
Hunter Region				Wyong LGA		Jilliby		Newcastle Exp												
736832	14/12/2010	Tue	04:00	1 km S	SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	F36	N in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	
E42853654					Darkness	DCA :	704	Right off cway into obj					Signpost							
Hunter Region				Wyong LGA		Wyong		Newcastle Exp												
734783	15/12/2010	Wed	15:30	1 km N	ALISON ROAD OP	D F	CRV	Fine	Dry	110	1	CAR	M31	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	
E42674417					Daylight	DCA :	600	On path - Other					Falling object							
Hunter Region				Wyong LGA		Wyong		Newcastle Exp												
734784	15/12/2010	Wed	15:30	1 km N	ALISON ROAD OP	D F	CRV	Fine	Dry	110	2	OMV	U U	S in NEWCASTLE EXP	Unk	Incorrect side	N	0	0	
E42674417					Daylight	DCA :	201	Opp - Head on					CAR M25	N in NEWCASTLE EXP	110	Proceeding in lane				
Hunter Region				Wyong LGA		Jilliby		Newcastle Exp												
735246	16/12/2010	Thu	13:50	100 m S	SPARKS ROAD OP	D F	STR	Raining	Wet	110	3	LOR	M40	N in NEWCASTLE EXP	90	Proceeding in lane	N	0	0	
E43088746					Daylight	DCA :	301	Same - Rear end					4WD M65	N in NEWCASTLE EXP	10	Proceeding in lane				
													UTE M58	N in NEWCASTLE EXP	30	Veering left				

Detailed Crash Report - sorted

Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors				
Natural Lighting																				S F				
Hunter Region		Wyong LGA			Jilliby		Newcastle Exp																	
735880	20/12/2010	Mon	17:00	390 m	N ST JOHNS ROAD OP	D F	CRV	Fine	Dry	110	2	4WD	M31	N in NEWCASTLE EXP	100	Proceeding in lane		N	0	0				
E43141557					Daylight	DCA :	301	Same - Rear end				4WD	F41	N in NEWCASTLE EXP	80	Proceeding in lane								
Hunter Region		Wyong LGA			Wyong		Newcastle Exp																	
737017	25/12/2010	Sat	11:30	1.15 km	S ST JOHN ROAD OP	D F	STR	Fine	Dry	110	3	4WD	M62	S in NEWCASTLE EXP	105	Proceeding in lane		N	0	0				
E43036956					Daylight	DCA :	301	Same - Rear end				4WD	M83	S in NEWCASTLE EXP	70	Proceeding in lane								
												CAR	M27	S in NEWCASTLE EXP	60	Proceeding in lane								
Hunter Region		Wyong LGA			Jilliby		Newcastle Exp																	
740153	02/01/2011	Sun	11:50	1 km	N CALTEX SERVICE SN	D F	STR	Fine	Dry	110	1	CAR	M23	S in NEWCASTLE EXP	110	Proceeding in lane		N	0	0				
E42874035					Daylight	DCA :	704	Right off cway into obj						Traffic island etc										
Hunter Region		Wyong LGA			Mardi		Newcastle Exp																	
743375	09/01/2011	Sun	12:10	100 m	N COBBS ROAD OP	D F	STR	Fine	Dry	110	4	UTE	M45	S in NEWCASTLE EXP	90	Proceeding in lane		I	0	1				
E45043485					Daylight	DCA :	301	Same - Rear end				4WD	M58	S in NEWCASTLE EXP	10	Proceeding in lane								
												CAR	M37	S in NEWCASTLE EXP	10	Proceeding in lane								
												4WD	M62	S in NEWCASTLE EXP	10	Proceeding in lane								
Hunter Region		Wyong LGA			Warnervale		Newcastle Exp																	
739874	23/01/2011	Sun	17:55	100 m	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	CAR	M55	N in NEWCASTLE EXP	100	Veering right		N	0	0				
E43044824					Daylight	DCA :	306	Same - Lane change right				4WD	M40	N in NEWCASTLE EXP	105	Proceeding in lane								
Hunter Region		Wyong LGA			Jilliby		Newcastle Exp																	
740141	02/02/2011	Wed	15:50	1 km	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	CAR	M33	N in NEWCASTLE EXP	110	Proceeding in lane		N	0	0				
E45201082					Daylight	DCA :	301	Same - Rear end				TRK	M57	N in NEWCASTLE EXP	110	Proceeding in lane								
Hunter Region		Wyong LGA			Jilliby		Newcastle Exp																	
743461	02/02/2011	Wed	15:50	1 km	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	UTE	M18	N in NEWCASTLE EXP	100	Proceeding in lane		I	0	2				
E43081537					Daylight	DCA :	301	Same - Rear end				CAR	M43	N in NEWCASTLE EXP	110	Proceeding in lane								
Hunter Region		Wyong LGA			Warnervale		Newcastle Exp																	
744337	17/02/2011	Thu	14:55	400 m	S ST JOHNS ROAD OP	D F	CRV	Raining	Wet	110	1	LOR	M34	S in NEWCASTLE EXP	90	Proceeding in lane		N	0	0				
E44899255					Daylight	DCA :	802	R Off cway left bend												S				
Hunter Region		Wyong LGA			Warnervale		Newcastle Exp																	
743847	27/02/2011	Sun	17:05	2 km	S SPARKS ROAD OP	D F	CRV	Fine	Dry	110	2	CAR	M38	S in NEWCASTLE EXP	90	Proceeding in lane		N	0	0				
E43956019					Daylight	DCA :	301	Same - Rear end				CAR	M51	S in NEWCASTLE EXP	90	Proceeding in lane								

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors
Natural Lighting																				S F
Hunter Region					Wyong LGA															
746518	24/03/2011	Thu	16:45	100 m	E NEWCASTLE EXP	DIV	STR	Fine	Dry	70	2	TRK	M39	W in COBBS RD	20	Proceeding in lane	N	0	0	
E380982491					Daylight	DCA :	301	Same - Rear end				CAR	M46	W in COBBS RD	0	Stationary				
Hunter Region					Wyong LGA															
751818	01/04/2011	Fri	17:45	10 m	E NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	CAR	M19	W in COBBS RD	Unk	Proceeding in lane	N	0	0	
E44851539					Dusk	DCA :	303	Same - Rear right				CAR	F22	W in COBBS RD	0	Wait turn right				
Hunter Region					Wyong LGA															
748466	09/04/2011	Sat	12:05	1 km	S SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	F40	S in NEWCASTLE EXP	80	Proceeding in lane	N	0	0	
E44307803					Daylight	DCA :	704	Right off cway into obj				Fence								
Hunter Region					Wyong LGA															
748488	09/04/2011	Sat	11:40	200 m	N ALISON ROAD OP	D F	STR	Fine	Dry	110	2	M/C	M58	S in NEWCASTLE EXP	80	Proceeding in lane	I	0	2	
E144115297					Daylight	DCA :	301	Same - Rear end				WAG	M44	S in NEWCASTLE EXP	Unk	Proceeding in lane				
Hunter Region					Wyong LGA															
748554	13/04/2011	Wed	09:30		at ALISON ROAD OP	D F	STR	Fine	Dry	110	2	BDBL	M30	N in NEWCASTLE EXP	100	Veering left	I	0	1	
E164794595					Daylight	DCA :	307	Same - Lane change left				4WD	M61	N in NEWCASTLE EXP	100	Proceeding in lane				
Hunter Region					Wyong LGA															
751892	19/04/2011	Tue	13:20		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	CAR	M59	E in COBBS RD	10	Turning right	N	0	0	
E44425919					Daylight	DCA :	202	Opp - Right-thru				CAR	F17	W in COBBS RD	60	Proceeding in lane				
Hunter Region					Wyong LGA															
750546	28/04/2011	Thu	09:21	500 m	N WYONG ROAD OP	D F	STR	Raining	Wet	110	1	CAR	M21	N in NEWCASTLE EXP	87	Proceeding in lane	N	0	0	F
E43993125					Daylight	DCA :	704	Right off cway into obj				Fence								
Hunter Region					Wyong LGA															
751640	06/05/2011	Fri	18:00	570 m	S PARKS RD	OTH	STR	Fine	Dry	110	2	CAR	F19	S in NEWCASTLE EXP	95	Proceeding in lane	I	0	2	
E44463518					Dusk	DCA :	301	Same - Rear end				CAR	M39	S in NEWCASTLE EXP	100	Proceeding in lane				
Hunter Region					Wyong LGA															
753533	20/05/2011	Fri	07:35	1.42 km	S MOTORWAY LINK MS	D F	STR	Fine	Dry	110	2	CAR	M32	N in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	
E44542948					Daylight	DCA :	301	Same - Rear end				TRK	M53	N in NEWCASTLE EXP	100	Proceeding in lane				
Hunter Region					Wyong LGA															
795920	20/05/2011	Fri	11:35	1.26 km	N SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	CAR	F18	S in NEWCASTLE EXP	80	Perform U-turn	I	0	1	
E45099042					Daylight	DCA :	207	Opp - U-turn				M/C	M40	N in NEWCASTLE EXP	110	Proceeding in lane				

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors
Natural Lighting																				S F
Hunter Region				Wyong LGA		Mardi			Newcastle Exp											
753717	24/05/2011	Tue	16:15	600 m N	COBBS ROAD OP	D F	STR	Fine	Dry	110	1	TRK	M35	N in NEWCASTLE EXP	110	Proceeding in lane		N	0	0
E44622534					Daylight	DCA :	704	Right off cway into obj				Fence								
Hunter Region				Wyong LGA		Warnervale			Sparks Rd											
754561	31/05/2011	Tue	16:30	30 m E	BURNET RD	DIV	CRV	Raining	Wet	70	2	CAR	F18	W in SPARKS RD	60	Proceeding in lane		I	0	2
E44845919					Daylight	DCA :	301	Same - Rear end				CAR	F39	W in SPARKS RD	0	Stationary				S
Hunter Region				Wyong LGA		Mardi			Newcastle Exp											
756129	12/06/2011	Sun	15:15	500 m N	COBBS ROAD OP	D F	STR	Raining	Wet	110	1	CAR	M61	N in NEWCASTLE EXP	100	Proceeding in lane		N	0	0
E44715754					Daylight	DCA :	703	Left off cway into object				Tree/bush								
Hunter Region				Wyong LGA		Wyong			Newcastle Exp											
756141	12/06/2011	Sun	13:05	50 m N	ALISON ROAD OP	D F	STR	Raining	Wet	110	1	TRK	M21	N in NEWCASTLE EXP	90	Proceeding in lane		N	0	0
E45040331					Daylight	DCA :	701	Off carriageway to left												
Hunter Region				Wyong LGA		Bushells Ridge			Newcastle Exp											
758251	15/06/2011	Wed	09:20	750 m N	MOTORWAY LINK OP	D F	STR	Raining	Wet	110	1	CAR	M24	S in NEWCASTLE EXP	Unk	Proceeding in lane		I	0	2
E45308051					Daylight	DCA :	703	Left off cway into object				Tree/bush								
Hunter Region				Wyong LGA		Wyong			Newcastle Exp											
756245	15/06/2011	Wed	09:30		at ALISON ROAD OP	D F	STR	Raining	Wet	110	1	WAG	M31	N in NEWCASTLE EXP	85	Proceeding in lane		N	0	0
E86555602					Daylight	DCA :	703	Left off cway into object				Fence								
Hunter Region				Wyong LGA		Mardi			Newcastle Exp											
760090	08/07/2011	Fri	16:55	600 m S	ALISON ROAD OP	D F	STR	Fine	Dry	110	3	UTE	M45	N in NEWCASTLE EXP	100	Proceeding in lane		N	0	0
E652183690					Darkness	DCA :	301	Same - Rear end				CAR	M20	N in NEWCASTLE EXP	Unk	Proceeding in lane				
												WAG	F50	N in NEWCASTLE EXP	Unk	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale			Motorway Link Ms											
761674	15/07/2011	Fri	15:40	8 m E	NEWCASTLE EXP	YJN	CRV	Overcast	Dry	110	2	TRK	M41	W in MOTORWAY LINK MS	100	Proceeding in lane		N	0	0
E47686286					Daylight	DCA :	301	Same - Rear end				CAR	F61	W in MOTORWAY LINK MS	70	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale			Newcastle Exp											
762054	17/07/2011	Sun	20:10	100 m N	SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	CAR	M44	S in NEWCASTLE EXP	80	Proceeding in lane		I	0	1
E45302366					Darkness	DCA :	301	Same - Rear end				CAR	M21	S in NEWCASTLE EXP	0	Stationary				

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors
Natural Lighting																				S F
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
762055	17/07/2011	Sun	20:10	100 m N	SPARKS ROAD OP	D F	STR	Fine	Dry	110	2	4WD	F25	S in NEWCASTLE EXP	80	Proceeding in lane	N	0	0	
E45302366					Darkness	DCA :	301	Same - Rear end				4WD	M46	S in NEWCASTLE EXP	60	Proceeding in lane				
Hunter Region				Wyong LGA		Bushells Ridge				Motorway Link Ms										
764929	20/07/2011	Wed	07:30	600 m E	NEWCASTLE EXP	OTH	STR	Raining	Wet	100	1	TRK	M32	W in MOTORWAY LINK MS	80	Proceeding in lane	I	0	1	
E45185359					Daylight	DCA :	702	Off carriageway to right												
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
766478	21/07/2011	Thu	17:20	at	SPARKS ROAD OP	D F	STR	Raining	Wet	110	1	TRK	M65	S in NEWCASTLE EXP	90	Proceeding in lane	I	0	1	
E45075047					Darkness	DCA :	702	Off carriageway to right												
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
761789	22/07/2011	Fri	12:20	440 m N	MOTORWAY LINK OP	D F	STR	Raining	Wet	110	1	TRK	M46	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	
E45714042					Daylight	DCA :	702	Off carriageway to right												
Hunter Region				Wyong LGA		Tuggerah				Wyong Rd										
764324	13/08/2011	Sat	10:55	30 m E	NEWCASTLE EXP	DIV	STR	Fine	Dry	70	2	CAR	M18	E in WYONG RD	40	Proceeding in lane	N	0	0	
E149037197					Daylight	DCA :	301	Same - Rear end				WAG	M35	E in WYONG RD	0	Stationary				
Hunter Region				Wyong LGA		Jilliby				Newcastle Exp										
769522	21/08/2011	Sun	08:58	665 m N	SPARKS ROAD OP	D F	CRV	Fine	Wet	110	1	4WD	M70	S in NEWCASTLE EXP	120	Proceeding in lane	I	0	1	S
E45991974					Daylight	DCA :	804	R Off left bend into obj				Tree/bush								
Hunter Region				Wyong LGA		Bushells Ridge				Newcastle Exp										
764880	25/08/2011	Thu	08:45	1.5 km S	TOOHEYS ROAD OP	D F	CRV	Fine	Dry	100	1	CAR	F27	S in NEWCASTLE EXP	90	Proceeding in lane	N	0	0	
E45514234					Daylight	DCA :	803	R Off right bend into obj				Tree/bush								
Hunter Region				Wyong LGA		Jilliby				Newcastle Exp										
765390	25/08/2011	Thu	07:50	2 km S	SPARKS ROAD OP	D F	STR	Fine	Dry	110	6	4WD	F48	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	
E45867168					Daylight	DCA :	301	Same - Rear end				CAR	M66	S in NEWCASTLE EXP	Unk	Proceeding in lane				
												CAR	F34	S in NEWCASTLE EXP	Unk	Proceeding in lane				
												TRK	M64	S in NEWCASTLE EXP	Unk	Proceeding in lane				
												TRK	M30	S in NEWCASTLE EXP	70	Proceeding in lane				
												CAR	M26	S in NEWCASTLE EXP	30	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
765407	25/08/2011	Thu	08:00	500 m S	SERVICE CENTRE OT	D F	STR	Fine	Dry	110	1	TRK	M29	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	
E149553797					Daylight	DCA :	703	Left off cway into object				Fence								

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors
Natural Lighting																				S F
Hunter Region				Wyong LGA		Mardi				Newcastle Exp										
769618	12/09/2011	Mon	16:55	at WYONG RD		TJN	CRV	Fine	Dry	70	1	M/C	M40	S in NEWCASTLE EXP	40	Proceeding in lane	I	0	1	S F
E45505632				Daylight		DCA :	802	R	Off cway left bend											
Hunter Region				Wyong LGA		Wyong				Newcastle Exp										
770381	02/10/2011	Sun	12:20	300 m N ALISON ROAD OP		D F	STR	Raining	Wet	110	1	CAR	M72	N in NEWCASTLE EXP	100	Proceeding in lane	N	0	0	
E45953961				Daylight		DCA :	703		Left off cway into object					Embankment						
Hunter Region				Wyong LGA		Jilliby				Newcastle Exp										
771988	22/10/2011	Sat	13:00	970 m N SPARKS ROAD OP		D F	STR	Fine	Dry	110	1	4WD	M20	S in NEWCASTLE EXP	110	Proceeding in lane	I	0	1	S F
E46581851				Daylight		DCA :	704		Right off cway into obj					Fence						
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
772408	27/10/2011	Thu	15:30	100 m S CALTEX SERVICE SN		D F	CRV	Overcast	Dry	110	1	4WD	M24	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	F
E46327331				Daylight		DCA :	804	L	Off left bend into obj					Fence						
Hunter Region				Wyong LGA		Jilliby				Sparks Rd										
773906	30/10/2011	Sun	19:35	at NEWCASTLE EXP		TJN	STR	Fine	Dry	70	2	CAR	M22	E in SPARKS RD	5	Turning right	I	0	1	
E46683474				Darkness		DCA :	202		Opp - Right-thru					CAR F45 W in SPARKS RD	60	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
773610	07/11/2011	Mon	08:15	1.64 km N SPARKS ROAD OP		D F	STR	Fine	Dry	110	1	TRK	M48	S in NEWCASTLE EXP	110	Proceeding in lane	I	0	1	
E46545958				Daylight		DCA :	702		Off carriageway to right											
Hunter Region				Wyong LGA		Jilliby				Newcastle Exp										
776811	12/11/2011	Sat	03:45	1.335 km S SPARKS ROAD OP		D F	STR	Fine	Dry	110	2	TRK	M66	N in NEWCASTLE EXP	110	Proceeding in lane	I	0	2	F
E46286359				Darkness		DCA :	603		On path - Previous accident					CAR M38 N in NEWCASTLE EXP	0	Broken down				
Hunter Region				Wyong LGA		Wyong				Newcastle Exp										
774686	12/11/2011	Sat	08:45	at ALISON ROAD OP		D F	STR	Raining	Wet	110	2	TRK	M39	N in NEWCASTLE EXP	90	Proceeding in lane	N	0	0	
E46584858				Daylight		DCA :	301		Same - Rear end					CAR M33 N in NEWCASTLE EXP	90	Proceeding in lane				
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
779279	17/11/2011	Thu	10:55	1.15 km S ST JOHNS ROAD OP		D F	CRV	Raining	Wet	110	1	WAG	M79	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	S
E46827042				Daylight		DCA :	804	R	Off left bend into obj					Tree/bush						
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
774966	23/11/2011	Wed	06:15	500 m S MOTORWAY LINK OP		D F	CRV	Raining	Wet	110	1	4WD	F26	S in NEWCASTLE EXP	90	Proceeding in lane	N	0	0	
E47118739				Daylight		DCA :	803	L	Off right bend into obj					Fence						

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Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors					
Natural Lighting																				S F					
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp																	
785992	23/11/2011	Wed	03:34	400 m	S	SPARKS ROAD TO	D F	STR	Raining	Wet	110	2	SEM	M44	S in NEWCASTLE EXP	100	Proceeding in lane	I	0	1					
E48106787						Darkness	DCA :	301	Same - Rear end				SEM	M56	S in NEWCASTLE EXP	90	Proceeding in lane								
Hunter Region		Wyong LGA			Wyong			Newcastle Exp																	
777739	08/12/2011	Thu	10:00	50 m	S	WYONG RIVER BDGE	D F	STR	Raining	Wet	110	1	4WD	M49	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	F				
E45741020						Daylight	DCA :	703	Left off cway into object				Fence												
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp																	
779433	13/12/2011	Tue	13:45	2.35 km	N	SPARKS ROAD OP	D F	CRV	Fine	Dry	110	1	CAR	M26	S in NEWCASTLE EXP	110	Proceeding in lane	N	0	0	F				
E48994088						Daylight	DCA :	803 L	Off right bend into obj				Tree/bush												
Hunter Region		Wyong LGA			Wyong			Newcastle Exp																	
782499	22/12/2011	Thu	16:30	1 km	N	ALISON ROAD OP	D F	CRV	Overcast	Wet	110	1	CAR	F20	S in NEWCASTLE EXP	100	Proceeding in lane	N	0	0					
E46440613						Daylight	DCA :	803 R	Off right bend into obj				Fence												
Hunter Region		Wyong LGA			Wyong			Newcastle Exp																	
779213	28/12/2011	Wed	04:21	80 m	N	ALISON ROAD OP	D F	STR	Fine	Dry	110	1	BUS	M22	S in NEWCASTLE EXP	110	Proceeding in lane	I	0	12	F				
E46782066						Darkness	DCA :	703	Left off cway into object				Tree/bush												
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp																	
784284	14/01/2012	Sat	12:30	50 m	S	SPARKS ROAD OP	D F	STR	Overcast	Wet	110	2	4WD	M34	S in NEWCASTLE EXP	60	Proceeding in lane	N	0	0					
E46877903						Daylight	DCA :	301	Same - Rear end				CAR	M25	S in NEWCASTLE EXP	70	Proceeding in lane								
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp																	
781812	22/01/2012	Sun	03:00	870 m	N	SPARKS ROAD OP	D F	CRV	Raining	Wet	110	1	LOR	M39	S in NEWCASTLE EXP	90	Proceeding in lane	N	0	0	S				
E46945957						Darkness	DCA :	804 R	Off left bend into obj				Tree/bush												
Hunter Region		Wyong LGA			Warnervale			Sparks Rd																	
781874	25/01/2012	Wed	12:05	15 m	E	NEWCASTLE EXP	DIV	STR	Raining	Wet	70	2	4WD	F17	E in SPARKS RD	30	Proceeding in lane	N	0	0					
E47135862						Daylight	DCA :	305	Same - Lane side swipe				4WD	M29	E in SPARKS RD	30	Proceeding in lane								
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp																	
784453	04/02/2012	Sat	06:30		at	ST JOHNS ROAD OP	D F	STR	Fine	Dry	110	1	SEM	M50	S in NEWCASTLE EXP	100	Proceeding in lane	N	0	0					
E46603624						Daylight	DCA :	703	Left off cway into object				Fence												
Hunter Region		Wyong LGA			Warnervale			Newcastle Exp																	
786286	05/02/2012	Sun	17:44	1 km	N	SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	4WD	F43	S in NEWCASTLE EXP	110	Proceeding in lane	I	0	3					
E46659944						Daylight	DCA :	702	Off carriageway to right																

Detailed Crash Report - sorted

Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors
Natural Lighting																				S F
Hunter Region				Wyong LGA		Mardi				Newcastle Exp										
790771	16/02/2012	Thu	06:30	400 m N	WYONG ROAD OP	D F	STR	Fine	Dry	110	2	P/C	M51	S in NEWCASTLE EXP	Proceeding in lane		I	0	1	
E48058068					Dawn	DCA :	305	Same -	Lane side swipe			4WD	U U	S in NEWCASTLE EXP	Unk Proceeding in lane					
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
784723	16/02/2012	Thu	09:00	360 m S	ST JOHNS ROAD OP	D F	CRV	Fine	Dry	110	1	BUS	M31	N in NEWCASTLE EXP	90 Proceeding in lane		N	0	0	
E47853541					Daylight	DCA :	607	On path -	Hit temp object					Other non fixed object						
Hunter Region				Wyong LGA		Tuggerah				Newcastle Exp										
784755	17/02/2012	Fri	14:55	500 m N	WYONG ROAD OP	D F	STR	Fine	Dry	110	2	CAR	F28	N in NEWCASTLE EXP	110 Veering right		N	0	0	
E47445858					Daylight	DCA :	306	Same -	Lane change right			CAR	F52	N in NEWCASTLE EXP	5 Proceeding in lane					
Hunter Region				Wyong LGA		Wyong				Newcastle Exp										
784767	17/02/2012	Fri	14:30	250 m S	ALISON RD	D F	STR	Fine	Dry	110	1	WAG	M64	N in NEWCASTLE EXP	100 Proceeding in lane		N	0	0	
E48858682					Daylight	DCA :	703	Left off cway into	object					Fence						
Hunter Region				Wyong LGA		Jilliby				Sparks Rd										
787985	12/03/2012	Mon	18:10		at NEWCASTLE EXP	TJN	STR	Fine	Dry	70	2	OMV	M25	W in SPARKS RD	80 Proceeding in lane		N	0	0	S
E48112539					Daylight	DCA :	101	Adj -	Cross traffic			CAR	M18	N in NEWCASTLE EXP	50 Proceeding in lane					
Hunter Region				Wyong LGA		Warnervale				Newcastle Exp										
789509	31/03/2012	Sat	02:40	1 km S	SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	TRK	M24	N in NEWCASTLE EXP	110 Proceeding in lane		N	0	0	F
E47554945					Darkness	DCA :	704	Right off cway into	obj					Tree/bush						
Hunter Region				Wyong LGA		Mardi				Newcastle Exp										
791180	06/04/2012	Fri	09:00	500 m N	WYONG RD	D F	STR	Fine	Dry	110	2	CAR	M35	N in NEWCASTLE EXP	20 Proceeding in lane		N	0	0	
E180790495					Daylight	DCA :	301	Same -	Rear end			4WD	M51	N in NEWCASTLE EXP	0 Stationary					
Hunter Region				Wyong LGA		Jilliby				Newcastle Exp										
787689	09/05/2012	Wed	21:08	460 m N	SPARKS ROAD OP	D F	STR	Fine	Dry	110	1	CAR	F24	S in NEWCASTLE EXP	Unk Proceeding in lane		F	1	0	F
E49670187					Darkness	DCA :	704	Right off cway into	obj					Tree/bush						
Hunter Region				Wyong LGA		Jilliby				Newcastle Exp										
795169	13/05/2012	Sun	00:02	390 m N	ST JOHNS ROAD OP	D F	CRV	Fine	Dry	110	2	WAG	M26	S in NEWCASTLE EXP	110 Proceeding in lane		N	0	0	F
E48215079					Darkness	DCA :	305	Same -	Lane side swipe			CAR	M27	S in NEWCASTLE EXP	110 Proceeding in lane					
Hunter Region				Wyong LGA		Blue Haven				Motorway Link Ms										
800560	18/05/2012	Fri	04:03	1 km E	NEWCASTLE EXP	DIV	CRV	Fog or mist	Dry	100	1	CAR	M42	W in MOTORWAY LINK MS	Unk Proceeding in lane		I	0	1	
E48511568					Dawn	DCA :	609	On path -	Hit animal					Kangaroo						

Detailed Crash Report - sorted

Crash No.	Date	Day of Week	Time	Distance	ID Feature	Loc Type	Alignment	Weather	Surface Condition	Speed Limit	No. of Tus	Tu Type/Obj	Age/Sex	Street Travelling	Speed Travelling	Manoeuvre	Degree of Crash	Killed	Injured	Factors
Natural Lighting																				S F
Hunter Region				Wyong LGA				Wyong				Newcastle Exp								
798437	05/06/2012	Tue	12:35	400 m	N ALISON ROAD OP	D F	CRV	Fine	Dry	110	2	BDBL	M60	S in NEWCASTLE EXP	100	Veering left	I	0	1	
E48908278					Daylight	DCA :	307	Same -	Lane change left			CAR	F52	S in NEWCASTLE EXP	100	Proceeding in lane				
Hunter Region				Wyong LGA				Wyong				Newcastle Exp								
801071	26/06/2012	Tue	15:50	300 m	S ALISON ROAD OP	D F	STR	Raining	Wet	110	2	CAR	F40	S in NEWCASTLE EXP	80	Proceeding in lane	I	0	1	
E48020517					Daylight	DCA :	305	Same -	Lane side swipe			4WD	M43	S in NEWCASTLE EXP	50	Proceeding in lane				
Report Totals:		Total Crashes: 282				Fatal Crashes: 2				Injury Crashes: 108				Killed: 2		Injured: 159				

Crashid dataset F3 Freeway: Chittaway Point to Tuggerah - 1/7/2007 to 30/6/2012

Note: Ordered by: Crash Date.

Summary Crash Report

# Crash Type			Contributing Factors			Crash Movement			CRASHES			CASUALTIES			
Car Crash	241	85.5%	Speeding	37	13.1%	Intersection, adjacent approaches	9	3.2%	Fatal crash	2	0.7%	Killed	2	1.2%	
Light Truck Crash	43	15.2%	Fatigue	34	12.1%	Head-on (not overtaking)	2	0.7%	Injury crash	108	38.3%	Injured	159	98.8%	
Rigid Truck Crash	20	7.1%				Opposing vehicles; turning	24	8.5%	Non-casualty crash	172	61.0%	^ Unrestrained	12	7.5%	
Articulated Truck Crash	21	7.4%				U-turn	1	0.4%	^ Belt fitted but not worn, No restraint fitted to position OR No helmet worn						
'Heavy Truck Crash	(39)	(13.8%)	Weather			Time Group			% of Day			Crashes			
Bus Crash	4	1.4%	Fine	169	59.9%	Rear-end	65	23.0%	00:01 - 02:59	10	3.5%12.5%	17	2012	8	
"Heavy Vehicle Crash	(40)	(14.2%)	Rain	84	29.8%	Lane change	26	9.2%	03:00 - 04:59	11	3.9% 8.3%	50	2011	36	
Emergency Vehicle Crash	3	1.1%	Overcast	27	9.6%	Parallel lanes; turning	0	0.0%	05:00 - 05:59	6	2.1% 4.2%	57	2010	19	
Motorcycle Crash	5	1.8%	Fog or mist	1	0.4%	Vehicle leaving driveway	0	0.0%	06:00 - 06:59	9	3.2% 4.2%	74	2009	59	
Pedal Cycle Crash	1	0.4%	Other	0	0.0%	Overtaking; same direction	0	0.0%	07:00 - 07:59	14	5.0% 4.2%	52	2008	28	
Pedestrian Crash	3	1.1%	Road Surface Condition			Hit parked vehicle	1	0.4%	08:00 - 08:59	16	5.7% 4.2%	32	2007	11	
' Rigid or Artic. Truck " Heavy Truck or Heavy Bus # These categories are NOT mutually exclusive			Wet	101	35.8%	Hit railway train	0	0.0%	09:00 - 09:59	15	5.3% 4.2%				
Location Type			Dry	181	64.2%	Hit pedestrian	1	0.4%	10:00 - 10:59	16	5.7% 4.2%	~ School Travel Time			
*Intersection	43	15.2%	Snow or ice	0	0.0%	Permanent obstruction on road	0	0.0%	11:00 - 11:59	21	7.4% 4.2%	Involvement	60	21.3%	
Non intersection	239	84.8%	Natural Lighting			Hit animal	3	1.1%	12:00 - 12:59	19	6.7% 4.2%				
* Up to 10 metres from an intersection ~ 07:30-09:30 or 14:30-17:00 on school days			Dawn	8	2.8%	Off road, on straight	23	8.2%	13:00 - 13:59	23	8.2% 4.2%	McLean Periods			
Collision Type			Daylight	208	73.8%	Off road on straight, hit object	80	28.4%	14:00 - 14:59	18	6.4% 4.2%	A	45	16.0% 17.9%	
Single Vehicle	137	48.6%	Dusk	13	4.6%	Out of control on straight	0	0.0%	15:00 - 15:59	28	9.9% 4.2%	B	11	3.9% 7.1%	
Multi Vehicle	145	51.4%	Darkness	53	18.8%	Off road, on curve	5	1.8%	16:00 - 16:59	19	6.7% 4.2%	C	81	28.7% 17.9%	
Road Classification			Speed Limit			Off road on curve, hit object	25	8.9%	17:00 - 17:59	23	8.2% 4.2%	D	16	5.7% 3.5%	
Freeway/Motorway	209	74.1%	40 km/h or less			Out of control on curve	0	0.0%	18:00 - 18:59	8	2.8% 4.2%	E	15	5.3% 3.6%	
State Highway	0	0.0%	40 km/h or less	3	1.1%	Other crash type	17	6.0%	19:00 - 19:59	9	3.2% 4.2%	F	44	15.6% 10.7%	
Other Classified Road	72	25.5%	50 km/h zone	2	0.7%	~ 40km/h or less			20:00 - 21:59	13	4.6% 8.3%	G	25	8.9% 7.1%	
Unclassified Road	1	0.4%	60 km/h zone	3	1.1%	80 km/h zone	17	6.0%	22:00 - 24:00	4	1.4% 8.3%	H	27	9.6% 7.1%	
			70 km/h zone	36	12.8%	90 km/h zone	4	1.4%	Street Lighting Off/Nil			I	8	2.8% 12.5%	
						100 km/h zone	10	3.6%	35	of	53 in Dark	66.0%	J	10	3.5% 10.7%
						110 km/h zone	206	73.3%							
Day of the Week			# Holiday Periods			New Year	1	0.4%	Queen's BD	3	1.1%	Easter SH	22	7.8%	
Monday	38	13.5%	Thursday	45	16.0%	Sunday	41	14.5%	Aust. Day	3	1.1%	June/July SH	14	5.0%	
Tuesday	32	11.3%	Friday	38	13.5%	WEEKDAY	205	72.7%	Easter	1	0.4%	Sept./Oct. SH	10	3.5%	
Wednesday	52	18.4%	Saturday	36	12.8%	WEEKEND	77	27.3%	Anzac Day	2	0.7%	December SH	5	1.8%	

Crashid dataset F3 Freeway: Chittaway Point to Tuggerah - 1/7/2007 to 30/6/2012

Percentages are percentages of all crashes. Unknown values for each category are not shown on this report.