

High Speed Rail (Crewe – Manchester)

Background information and data

Air quality

BID AQ-002-0MA08

MA08: Manchester Piccadilly Station

Additional data used in the air quality
assessment

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Department for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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1 Introduction

1.1.1 This report presents additional data used in the air quality assessment of the Manchester Piccadilly Station area (MA08) and comprises:

- relevant policies and guidance; and
- baseline air quality data.

1.1.2 Volume 5, Appendix: AQ-001-0MA08¹ should be referred to for details of the air quality impact assessment.

¹ High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement, Air Quality report*, Appendix AQ-001-0MA08. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-environmental-statement>.

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2 Relevant policies and guidance

- 2.1.1 The Manchester Piccadilly Station area (MA08) lies mostly within the administrative area of Manchester City Council (MCC) with Salford City Council (SCC) and Bury Metropolitan Borough Council (BuMBC) lying on the western edges of the area.

2.2 Manchester City Council

- 2.2.1 The Core Strategy, 2012 – 2027² for MCC sets the out the long-term strategic policies for Manchester’s future development and will form the framework that planning applications will be assessed against up to 2027.
- 2.2.2 Policy EN16, air quality, states that MCC will seek to improve the air quality within Manchester, particularly within the air quality management area (AQMA), located along Manchester’s principal traffic routes and at Manchester Airport. It states, ‘Developers will be expected to take measures to minimise and mitigate the local impact of emissions from traffic generated by the development, as well as emissions created by the use of the development itself, including from Combined Heat and Power and biomass plant. When assessing the appropriateness of locations for new development the Council will consider the impacts on air quality, alongside other plan objectives. This includes cumulative impacts, particularly in AQMA.’
- 2.2.3 Policy DM1, Development Management, states that all development should have regard for ‘...effects on amenity, including privacy, light, noise, vibration, air quality, odours, litter, vermin, birds, road safety and traffic generation.’

2.3 Salford City Council

- 2.3.1 The Salford Local Plan for SCC³ which has been published and was due for submission to the Secretary of State in May 2020, sets out the council's main planning policies used to guide development, conservation, regeneration and environmental improvement activity in Salford up to 2037.
- 2.3.2 In regard to air quality, Policy PH1 (Pollution Control) states:
- ‘Development shall minimise and mitigate pollution during both the construction and operational phases of development. Development will not be permitted where it would

² Manchester City Council (2012), *Manchester's Local Development Framework – Core Strategy Development Plan 2012 – 2027*. Available online at:

https://secure.manchester.gov.uk/downloads/download/5672/core_strategy.

³ Salford City Council (2020), *Publication Salford Local Plan: Development Management Policies and Designations*. Available online at: <https://www.salford.gov.uk/media/394997/publication-salford-local-plan-slpdmp-jan-2020.pdf>.

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result in unacceptable levels of pollution, either individually or cumulatively with other existing or proposed developments, or would itself be subject to unacceptable levels of pollution. [...]

Where appropriate, conditions or planning obligations will be used to ensure that during construction and through the operation of completed development:

1. Pollution levels and impacts can be adequately monitored; and
2. Measures to avoid, minimise or mitigate pollution impacts are being appropriately implemented and maintained.'

- 2.3.3 Policy AQ1 - Air Quality states that SCC will seek to improve the air quality within Salford, particularly within the AQMA, using measures including: 'maximising walking, cycling and public transport; supporting the electrification of rail lines through the city; enhancing the green infrastructure network to assist in the absorption of air pollutants; designing the built environment to minimise the potential for air pollution to become trapped close to the ground; and requiring development to minimise and mitigate pollution as far as practicable, both during the construction and operational phases of development.'

2.4 Greater Manchester Clean Air Plan

- 2.4.1 The proposed Greater Manchester Clean Air Plan⁴ (CAP) has been in development since 2018. The aim of the CAP is to bring nitrogen dioxide (NO₂) levels within legal limits in 'the shortest possible time'. This includes launching and operating a Greater Manchester-wide Class C Clean Air Zone (CAZ) which is expected to be introduced from spring 2022. The CAZ would require the owners of vehicles which do not meet the necessary emissions standards to pay a daily charge. A public consultation on the CAP took place between 8 October and 3 December 2020. The final CAP is expected to be considered no later than summer 2021.

⁴ Greater Manchester Combined Authority (2020), *Greater Manchester Clean Air Plan: Consultation*. Available online at: <https://democracy.greatermanchester-ca.gov.uk/documents/s12762/GMCA%20Clean%20Air%20Post%20Consultation%20FINAL.pdf>.

3 Baseline air quality data

3.1 Local air quality monitoring data

3.1.1 Table 1 to Table 4 present the monitoring data from the continuous monitors and diffusion tube sites within the Manchester Piccadilly Station area. Table 5 also presents the NO₂ measurements from the HS2 monitoring sites in this area.

Table 1: Annual mean pollutant concentrations recorded at continuous monitoring sites

Pollutant ⁵	Annual mean concentrations (µg/m ³)				
	2014	2015	2016	2017	2018
Manchester Piccadilly, (384310,398337)					
NO ₂	40	39	40	36	35
PM ₁₀	20	20	20	20	21
PM _{2.5}	12	10	10	8	11
Manchester Oxford Road (384233,397297)					
NO ₂	68	66	66	65	61
PM ₁₀	28	28	27	27	30

Table 2: Number of hours when hourly mean NO₂ concentrations exceed 200µg/m³ at continuous monitoring sites

Site ^{5,6}	Number of exceedances of hourly mean NO ₂ standard				
	2014	2015 ⁷	2016	2017	2018
Manchester Piccadilly	2	1	0	1	0
Manchester Oxford Road	14	60	90	6	6

Table 3: Number of days when daily mean PM₁₀ concentrations exceed 50µg/m³ at continuous monitoring sites

Site ^{5,8}	Number of exceedances of daily mean PM ₁₀ standard				
	2014	2015	2016	2017	2018
Manchester Piccadilly	5	3	3	3	2

⁵ Greater Manchester Combined Authority (2019), *2018 Air Quality Annual Status Report (ASR)*. Available online at: https://www.manchester.gov.uk/downloads/download/4166/air_quality_reports (data provided rounded to whole numbers).

⁶ 99.8th percentile of hourly mean NO₂ concentrations in brackets (µg/m³).

⁷ Hourly exceedances at the Manchester Oxford Road site have been noted within 2015 and 2016 results. Following discussion with the MCC Environmental Protection – Neighbourhood Officer, it is understood that the elevated readings were attributed to road works and road layout changes in the area causing buses to queue next to the monitoring station. Conditions returned to normal following removal of road works.

⁸ 90.4th percentile of daily mean PM₁₀ concentrations in brackets (µg/m³).

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Site ^{5,8}	Number of exceedances of daily mean PM ₁₀ standard				
	2014	2015	2016	2017	2018
Manchester Oxford Road	18	25	16	15	15

Table 4: Annual mean NO₂ concentrations recorded at diffusion tube monitoring sites

Site ⁵	Ordnance survey coordinates	Annual mean NO ₂ concentrations (µg/m ³)				
		2014	2015	2016	2017	2018
Trafford 23	376435, 396383	38.6	38.4	39.8	39.6	36.5
Trafford 23a	376398, 396369	No data	No data	No data	No data	35.8
Manchester - Rochdale Road (36) (M-36)	385205, 399750	32.5	32.8	40.1	34.0	33.1
Manchester - Angel Street (88) (M-88)	384469, 398981	No data	52.2	57.8	57.9	46.8
Manchester - Chethams School of Music (26)	383971, 398876	34.7	33.1	37.1	35.5	33.4
Manchester Piccadilly Gardens (59 60 61)	384310, 398337	36.1	35.5	39.1	36.0	32.0
Manchester - Newton Street (9)	384601, 398303	56.2	55.9	51.9	51.1	45.8
Manchester - Gt Ancoats Street (71) (M-71)	385161, 398290	47.4	45.9	51.2	50.4	46.1
Manchester - Princess Street (24) (M-24)	383954, 398060	50.3	55.2	45.3	44.7	40.3
Manchester - Hewitt Street (77)	383602, 397488	38.7	37.5	44.2	38.8	41.0
Manchester - Oxford Street (29a)	384114, 397512	62.8	56.4	66.2	57.7	58.8
Manchester - Lockton Close (72)	384761, 397384	36.1	34.8	40.0	34.6	33.4
Manchester - Oxford Road (82,83,84)	384233, 397287	63.0	60.7	61.6	56.0	52.8
Salford - SA14NO	382833, 401035	31.8	31.9	35.5	36.0	31.6
Salford - SA17NO	380742, 400862	34.9	35.5	38.1	36.8	35.1
Salford - SA62NO (SA62)	380768, 399637	No data	No data	No data	No data	31.4
Salford - SA37NO	380801, 399633	28.8	27.0	29.2	27.3	No data
Salford - SA26NO (SA26)	380718, 399597	34.1	32.5	39.0	34.6	33.9
Salford - SA70NO	381677, 398832	No data	No data	No data	No data	28.4
Salford - SA27NO (SA27)	383080, 398743	35.5	35.4	39.8	36.8	34.1
Salford - SA39NO	383040, 398563	39.7	38.5	46.8	41.6	39.1
Salford - SA44NO (SA44)	380412, 398439	37.9	38.6	40.7	40.2	35.3
Salford - SA25NO	381304, 398014	29.3	28.5	33.6	30.8	29.2
Salford - SA59NO (SA59)	381822, 397895	No data	No data	No data	36.7	33.3
Salford - SA60NO	382445, 397724	No data	No data	No data	40.7	40.2
Salford - SA71NO	381351, 397185	No data	No data	No data	No data	36.8
Bury BU01	384374, 404918	34.9	33.7	35.2	31.9	32.3
Bury BU04	380965, 404834	39.1	37.0	38.1	31.9	31.2

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Table 5: Annual mean NO₂ concentrations recorded at HS2 monitoring sites

Site	Ordnance Survey coordinates	Annual mean NO ₂ concentrations (µg/m ³)	
		2018	2019
MA08.1	385288, 398129	55.4	51.3
MA08.2	385261, 397430	47.8	42.4
MA08.3	384803, 397757	55.1	57.2
MA08.5/8.6/8.7	384250, 397257	54.2	51.1

3.2 Industrial emission sources

3.2.1 Table 6 presents the industrial installations (regulated by the Environment Agency) with permits for emissions to air within the Manchester Piccadilly Station area.

Table 6: Industrial installations with permits for emissions to air

Operator	Permit number	Process
Heineken UK Limited	BV7796IW	Animal vegetable and food; treating etc vegetable raw materials for food >300 tonnes per day

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4 Construction traffic data

- 4.1.1 Table 7 and Table 8 outlines the predicted flows for construction traffic on the highway network. The data presented are split into annual average daily traffic (AADT) and heavy duty vehicles (HDV) in the 'without the Proposed Scheme' and 'with the Proposed Scheme' scenarios.
- 4.1.2 The air quality assessment of construction traffic emissions has used traffic data based on an estimate of the average daily flows in the peak year during the construction period (2025 – 2037). The assessment assumes vehicle emission rates and background pollutant concentrations from year 2025 as a worst case.
- 4.1.3 Table 9 outlines the predicted flows of construction traffic on the site haul routes. The data are presented for the 'with the Proposed Scheme' scenario only split in heavy goods vehicles (HGV) and articulated dump trucks (ADT).

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Table 7: Traffic data (AADT) used for the construction assessment

Road ID	Start and end coordinates	AADT				Notes
		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1217_1238, 1238_1217	384654, 398684 384727,398626	35,558	34,228	31,848	33,376	
4947_1244	375173, 398639 375232,398059	31,082	30,913	30,769	30,527	
1247_1246, 4948_1245	375368, 397542 375188,398092	129,941	132,461	131,973	131,340	
2286_1286	384566, 398000 384639,398051	9,701	7,649	7,829	8,311	
1292_1293, 1293_1292	385199, 398245 385115,398298	43,489	44,378	37,758	36,211	
1238_1300, 1300_1238	384727, 398626 384796,398558	34,388	33,548	30,974	32,076	
3261_1302	384625, 398708 384443,398865	16,294	15,265	14,160	14,689	
1341_1524, 1524_1341	385526, 397653 385639,397744	24,961	28,846	35,454	33,813	
1265_2057, 2057_1265	384340, 398080 384291,398029	12,152	10,955	10,988	11,638	
1282_2057, 2057_1282	384274, 398008 384291,398029	15,879	14,436	14,424	15,227	
1282_2107, 2107_1282	384274, 398008 384226,397961	13,846	12,309	11,946	12,839	
2006_2107, 2107_2006	384159, 397893 384226,397961	11,762	10,707	10,322	11,112	
5403_2286	384572, 397911 384566,398000	10,174	8,121	8,497	8,886	
1416_2312, 2312_1416	384867, 396728 385007,396536	33,489	33,011	32,750	33,024	
14591_2353	384404, 399062 384501,398933	20,578	19,534	18,947	19,338	
2673_2674	374736, 398863 374906,399065	46,246	48,471	48,205	47,223	
2686_2675, 2676_4946	375058, 399165 374957,399382	127,540	128,875	128,714	128,222	
2676_2677	374985, 399375 375125,399264	40,106	41,609	41,862	41,647	
2682_2683	375143, 398671 374969,398825	22,092	22,438	22,527	22,576	
2683_2684	374969, 398825 374627,398775	10,593	10,906	10,888	10,761	

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Road ID	Start and end coordinates	AADT				Notes
		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2677_2685	375125, 399264 374813,398879	26,868	27,913	27,913	27,654	
2679_2685, 2687_2678	375383, 399195 374813,398879	52,539	54,448	53,852	53,420	
2673_2687, 2685_2684	374736, 398863 375123,399073	66,314	69,389	68,664	67,934	
2678_2688, 2689_2679	375492, 399276 377699,398858	88,671	90,384	90,213	90,049	
12815_2691, 2692_2676	374900, 399468 374589,400009	200,548	205,440	205,424	204,017	
2691_2693, 2694_2692	374589, 400009 374606,400491	162,946	167,094	167,203	165,767	
2216_2703, 2703_2216	384445, 397746 384537,397795	17,066	15,458	14,787	15,835	
2700_2707, 2708_2701	378139, 403487 380509,404583	201,336	204,545	204,772	203,229	
2707_2709, 2710_2708	380509, 404583 381209,404987	156,944	159,894	160,073	158,678	
2709_2713, 12828_2710	381209, 404987 382448,405723	179,778	182,166	182,215	181,188	
12855_2715, 2716_2714	382801, 405926 383167,406207	104,810	106,110	105,936	105,273	
14437_2717, 14278_2716	383342, 406362 386017,408615	140,888	142,261	141,940	141,225	
2717_2719, 2720_2718	386017, 408615 386698,409150	126,777	128,097	127,733	127,034	
26771_2721, 26775_2720	386805, 409185 389126,409944	147,914	149,175	148,743	148,062	
2721_2723, 2724_2722	389126, 409944 390036,410269	106,434	107,561	107,188	106,474	
2701_2729, 12813_2700	378245, 403499 376695,403166	171,973	175,029	175,050	173,655	
2731_2730, 2695_2696	376282, 403056 375798,402652	91,721	95,931	96,287	95,066	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
14417_2730, 12810_2695	375944, 402795 375798,402652	96,968	99,386	99,093	98,470	
2729_2731, 2696_2698	376695, 403166 376282,403056	112,719	115,347	115,420	114,270	
14487_2732	375770, 402540 375229,401928	9,847	8,512	8,358	8,504	
2890_2892, 2893_2891	383450, 397148 384227,397216	61,458	60,216	57,108	58,792	
5073_2892, 2893_5074	384067, 397148 384227,397216	26,942	26,995	26,503	26,533	
2894_2893, 2892_2897	384369, 397248 384230,397210	88,397	87,236	83,599	85,256	
3843_2896, 2892_2897	384571, 397315 384532,397295	87,719	86,802	82,884	84,563	
2892_2897, 2896_2894	384227, 397216 384561,397330	88,028	87,090	83,230	84,923	
1337_2905, 2905_1337	384549, 397180 384681,396997	23,518	22,774	23,296	23,553	
1341_2939, 2939_1341	385526, 397653 385708,397636	24,166	26,311	0	0	Realignment
1524_2939, 2939_1524	385639, 397744 385708,397636	27,126	29,408	38,634	36,508	
1343_2940, 2940_1343	385375, 398047 385587,397946	36,547	41,388	35,947	33,138	
2732_2994, 2994_2697	375229, 401928 374796,401923	44,169	42,341	42,005	42,178	
1761_2995, 2995_1761	374099, 401759 374724,401916	43,708	42,385	41,959	42,033	
2994_2995, 2995_2994	374796, 401923 374724,401916	44,557	42,716	42,378	42,544	
1289_3016, 14479_1289	384742, 397772 384704,397855	19,772	16,998	17,365	18,257	
3036_3035	384615, 398317 384683,398367	3,763	5,056	4,731	5,230	
1293_3269	385115, 398298 384912,398204	4,550	9,141	8,302	5,809	
1293_3270, 3270_1293	385115, 398298 385048,398338	39,317	38,151	34,186	34,835	
2006_3292, 3292_2006	384159, 397893 384076,397809	9,755	8,682	8,265	9,131	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
5956_3319	384856, 397676 384821,397630	3,469	2,363	2,994	3,100	
90030_3323, 3323_90030	385137, 397833 385117,397820	11,188	0	0	0	Realignment
2296_3323, 3323_2296	384988, 397737 385117,397820	10,378	0	0	0	Realignment
3023_3384, 3384_3023	384716, 398761 384762,398792	15,957	16,986	17,991	16,747	
3256_3384, 3384_3256	384850, 398842 384762,398792	15,957	16,986	17,991	16,748	
2737_3429, 3440_2746	376060, 403282 375632,403660	136,737	135,943	135,555	135,488	
2745_3440, 3429_2738	375107, 403876 375637,403681	136,737	135,942	135,555	135,489	
1312_3583	383790, 399113 383720,399090	12,595	14,174	15,301	14,037	
1414_3584, 3584_1414	385135, 396344 385088,396417	17,415	16,839	16,648	16,850	
2312_3584, 3584_2312	385007, 396536 385088,396417	21,829	21,144	21,136	21,193	
1274_3629, 3629_1274	383135, 398777 383269,398927	27,659	29,080	29,727	29,079	
3619_3629, 3629_3619	383438, 399053 383269,398927	29,011	30,611	31,707	30,524	
3583_3635, 3635_1312	383720, 399090 383597,399087	29,010	30,611	31,706	30,524	
3619_3635, 3635_3619	383438, 399053 383597,399087	29,010	30,611	31,707	30,524	
3270_3647, 3647_3270	385048, 398338 384982,398389	36,848	35,254	31,651	32,920	
3319_3839, 3839_3319	384821, 397630 384829,397518	19,435	15,547	16,973	17,549	
90001_3841, 90024_1341	385479, 397571 385122,397442	49,399	48,286	0	0	Realignment
3056_3842, 3842_3056	384898, 397366 384847,397458	30,467	28,551	31,406	31,151	
3839_3842, 3842_3839	384829, 397518 384847,397458	25,807	22,345	23,452	24,065	
3841_3843, 3844_3840	385122, 397442 384571,397315	49,437	48,459	42,302	43,880	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2897_3844, 3842_3843	384561, 397330	384591,397351	49,695	50,476	50,378	50,416	
1289_3845, 3845_1289	384742, 397772	384775,397711	15,970	13,194	13,991	14,458	
3319_3845, 3845_3319	384821, 397630	384775,397711	15,970	13,194	13,991	14,458	
1414_4397, 4397_1414	385135, 396344	385190,396268	17,415	16,839	16,648	16,850	
1274_4539, 4539_1274	383135, 398777	383078,398695	27,659	29,080	29,727	29,079	
1356_4539, 4539_1356	383017, 398542	383078,398695	27,659	29,080	29,727	29,079	
2938_4853, 4853_2938	385310, 397074	385340,397104	13,397	12,146	11,933	12,170	
3289_4881, 4881_3289	384921, 398450	384907,398463	30,330	29,150	26,377	27,260	
2676_4946, 2682_2686	374985, 399375	375158,398720	114,113	115,881	115,497	114,920	
4946_4947	375158, 398720	375173,398639	8,092	8,134	8,132	8,041	
4946_4948, 1246_2682	375158, 398720	375253,397936	128,468	130,276	129,977	129,561	
1244_4950	375232, 398059	375319,397850	14,157	13,696	13,728	13,626	
4950_4951	375319, 397850	375352,397815	21,079	20,409	20,352	20,254	
4951_4952	375352, 397815	375349,397779	24,407	24,267	24,265	23,961	
2688_5056	377699, 398858	378128,398933	16,078	17,200	17,149	17,153	
5056_5057	378128, 398933	378150,398950	22,653	23,772	23,668	23,643	
5059_5060	378213, 398927	378204,398827	17,608	18,688	18,686	18,614	
5060_5061	378204, 398827	378182,398813	23,783	24,803	24,677	24,597	
5076_5071	383997, 397088	383984,397134	4,836	4,753	4,571	4,972	
5071_5072	383984, 397134	384006,397166	17,701	17,642	17,192	17,356	
5072_5073	384006, 397166	384067,397148	22,905	23,401	22,079	23,249	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2893_5074	384230, 397210 384084,397112	13,979	13,242	13,871	13,549	
5074_5075	384084, 397112 384056,397073	23,589	22,628	23,246	23,637	
5075_5076	384056, 397073 383997,397088	23,041	22,676	22,366	23,051	
4590_5177, 5177_4590	374847, 400312 374735,400449	14,288	13,163	13,239	13,204	
2691_5184	374589, 400009 374441,400669	16,871	17,401	17,291	17,341	
5184_5185	374441, 400669 374433,400704	23,223	22,947	22,876	23,039	
5185_5186	374433, 400704 374472,400723	25,729	26,113	26,060	25,972	
2913_5403	384574, 397858 384572,397911	9,480	8,252	8,442	8,617	
1265_5404, 5404_1265	384340, 398080 384363,398107	11,812	10,598	10,637	11,362	
5403_5439, 5439_5403	384572, 397911 384462,398013	10,385	8,235	7,847	9,437	
1287_5812, 5812_1287	384695, 397913 384779,397970	8,070	0	0	0	Realignment
3323_5813, 5813_3323	385117, 397820 385035,397865	6,182	0	0	6,091	Realignment
5404_5856, 5856_5404	384363, 398107 384418,398056	7,780	6,561	6,546	7,282	
5439_5856, 5856_5439	384462, 398013 384418,398056	7,102	5,549	5,643	6,647	
1290_5860, 5860_1290	384723, 398093 384707,398084	10,383	11,801	11,822	14,404	
1220_5861, 5861_1220	384848, 398013 384885,397941	5,422	0	0	0	Realignment
5860_5868, 5868_5860	384707, 398084 384683,398072	10,383	11,801	11,822	11,629	
1286_5868, 5868_1286	384639, 398051 384683,398072	10,566	11,981	11,997	11,808	
2296_5956	384988, 397737 384856,397676	3,469	2,363	2,994	3,100	
3289_5957, 5957_3289	384921, 398450 384956,398415	36,848	35,254	31,651	32,920	
3647_5957, 5957_3647	384982, 398389 384956,398415	36,848	35,254	31,651	32,920	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1510_6616, 6616_1510	385927, 398456	385871,398350	10,271	9,041	7,470	9,240	
1510_6619, 6619_1510	385927, 398456	385709,398406	3,887	2,277	1,970	2,455	
6618_6619, 6619_6618	385818, 398275	385709,398406	3,436	4,850	4,016	4,337	
1292_6620, 6620_1292	385199, 398245	385592,398554	12,631	10,473	8,402	11,377	
2326_6620, 6620_2326	385701, 398646	385592,398554	13,890	10,359	8,928	11,697	
4337_6848, 6848_4337	384269, 401116	384459,400884	20,329	19,206	18,262	18,951	
2326_7113, 7113_2326	385701, 398646	385975,398847	12,768	10,805	9,672	11,482	
2940_7116, 90008_2940	385587, 397946	385636,397839	49,891	57,191	47,801	44,996	
1563_7220, 7220_1563	383136, 399062	383041,399146	17,308	18,543	19,807	18,202	
4881_7282, 7282_4881	384907, 398463	384879,398487	30,329	29,150	26,377	27,260	
1300_7282, 7282_1300	384796, 398558	384879,398487	32,643	31,889	29,525	30,152	
4590_7913, 7913_4590	374847, 400312	374936,400227	14,381	13,257	13,332	13,297	
2299_7947, 7947_2299	381500, 399112	381737,399473	18,801	19,982	20,874	19,657	
1365_7947, 7947_1365	382004, 399676	381737,399473	17,739	18,939	19,818	18,615	
1290_8558, 8558_1290	384723, 398093	384776,398123	3,073	7,470	7,106	4,518	
2287_8558, 8558_2287	384850, 398165	384776,398123	3,073	7,470	7,106	4,518	
1341_8562, 8562_1341	385526, 397653	385379,397676	6,085	9,094	0	0	Realignment
6619_8582, 8582_6619	385709, 398406	385611,398301	4,341	2,217	3,384	3,334	
1344_8582, 8582_1344	385325, 398104	385611,398301	8,396	5,024	5,024	6,773	
2693_12810, 14418_2694	374606, 400491	375771,402639	170,079	173,551	173,681	172,307	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2698_12813	376807, 403196 376956,403196	76,021	78,427	78,338	77,444	
2674_12814	374906, 399065 374985,399314	32,811	34,854	34,756	34,060	
2675_12815	374957, 399382 374900,399468	90,909	92,172	92,580	91,646	
12814_12815	374985, 399314 374900,399468	12,738	14,501	13,922	13,872	
5669_12824, 12823_5668	384836, 404825 385976,404785	116,069	117,099	117,489	117,052	
2714_12828, 2709_2713	382521, 405731 382294,405609	155,990	158,753	158,710	157,511	
2940_14093, 14093_2940	385587, 397946 385640,398020	16,016	17,564	15,188	14,913	
8581_14093, 14093_8581	385669, 398061 385640,398020	16,015	17,563	15,188	14,912	
2718_14278, 14437_2717	385976, 408563 384309,407544	140,888	142,261	141,940	141,225	
4337_14298, 14298_4337	384269, 401116 384125,401253	20,328	19,206	18,262	18,951	
8600_14298, 14298_8600	384102, 401277 384125,401253	20,344	19,220	18,279	18,967	
14313_14314, 2665_12927	380590, 399525 380936,399571	15,073	16,168	16,180	16,070	
2296_14369, 14369_2296	384988, 397737 385061,397725	2,755	9,660	9,341	13,154	
14369_14370, 14370_14369	385061, 397725 385273,397693	2,745	9,644	9,317	13,137	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2730_14418, 2693_12810	375798, 402652 375630,402275	165,953	170,242	170,411	168,936	
2715_14437, 14278_2716	383167, 406207 383342,406362	132,818	134,208	133,878	133,129	
1287_14479	384695, 397913 384699,397898	12,505	10,633	10,830	11,243	
2731_14487	376282, 403056 375770,402540	9,847	8,512	8,358	8,504	
8649_14578, 14578_8649	384747, 396901 384786,396845	32,549	31,782	31,670	32,173	
1416_14578, 14578_1416	384867, 396728 384786,396845	32,562	31,795	31,684	32,187	
14590_14591	384323, 399124 384404,399062	20,578	19,534	18,947	19,338	
5814_14592, 14592_5814	384966, 397887 384995,397882	5,461	0	0	6,612	Realignment
4952_14641	375349, 397779 375351,397762	16,524	16,719	16,726	16,382	
15129_15128	384671, 398200 384597,398155	1,637	3,305	3,408	2,898	
1286_15128, 15128_1286	384639, 398051 384597,398155	2,320	3,992	4,084	3,885	
8557_15129, 15129_8557	384658, 398226 384671,398200	14,075	12,175	11,760	14,285	
5859_15129, 15129_5859	384695, 398150 384671,398200	12,451	9,032	8,443	11,418	
2722_26775, 26771_2721	389121, 409922 389032,409892	147,914	149,174	148,743	148,062	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
31370_31371, 31371_31370	375296, 397351 375448,397367	27,094	28,645	28,619	28,259	
14641_31371	375351, 397762 375448,397367	16,524	16,719	16,726	16,382	
2939_90000, 90000_2939	385708, 397636 385724,397552	25,966	27,808	0	0	Realignment
1341_90001, 90001_1341	385526, 397653 385479,397571	25,384	22,951	35,449	33,813	
90001_90002, 90002_90001	385479, 397571 385502,397540	1,812	0	0	0	Realignment
90000_90002, 90002_90000	385724, 397552 385502,397540	2,308	0	0	0	Realignment
90002_90003, 90003_90002	385502, 397540 385500,397523	4,008	0	0	0	Realignment
8562_90005, 90005_8562	385379, 397676 385348,397681	6,085	9,094	0	0	Realignment
90005_90006, 90006_90005	385348, 397681 385334,397705	4,010	0	0	0	Realignment
90006_90007, 90007_90006	385334, 397705 385485,397857	503	0	0	0	Realignment
1524_90008, 7116_1524	385639, 397744 385635,397808	52,082	58,201	48,406	45,974	
90007_90008, 90008_90007	385485, 397857 385635,397808	503	657	1,630	1,379	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
8561_90009, 90009_8561	385243, 397903 385224,397885	9,581	4,190	4,243	10,862	
90006_90009, 90009_90006	385334, 397705 385224,397885	3,920	0	0	0	Realignment
1292_90010, 90010_1292	385199, 398245 385301,398123	43,748	44,968	37,404	39,226	
1344_90010, 90010_1344	385325, 398104 385301,398123	43,682	46,676	40,991	39,444	
90010_90011, 90011_90010	385301, 398123 384953,397957	139	2,264	5,009	218	
1220_90012, 90012_1220	384848, 398013 384899,398046	9,039	10,660	10,399	2,579	
90011_90012, 90012_90011	384953, 397957 384899,398046	139	2,264	5,009	0	
4853_90019, 90019_4853	385340, 397104 385379,397161	13,397	12,146	11,933	12,170	
90019_90021, 90021_90019	385379, 397161 385443,397251	11,239	9,843	9,746	9,964	
90021_90022, 90022_90021	385443, 397251 385467,397363	4,439	2,461	2,454	2,467	
90003_90022, 90022_90003	385500, 397523 385467,397363	4,008	0	0	0	Realignment
3840_90024, 90001_3841	385106, 397456 385286,397442	49,997	48,896	23,629	23,968	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
14370_90026, 90026_14370	385273, 397693 385302,397688	2,745	9,644	9,317	13,137	
90005_90026, 90026_90005	385348, 397681 385302,397688	4,148	9,749	7,615	12,444	
3323_90030, 90030_3323	385117, 397820 385137,397833	11,188	0	0	2,756	Realignment
90009_90030, 90030_90009	385224, 397885 385137,397833	10,240	4,190	4,243	4,370	
8561_90032, 90032_8561	385243, 397903 385310,397976	9,410	4,561	3,899	10,718	
1343_90032, 90032_1343	385375, 398047 385310,397976	9,300	6,361	5,456	10,693	
5861_90036, 90036_5861	384885, 397941 384896,397917	5,423	0	0	4,669	Realignment
5814_90036, 90036_5814	384966, 397887 384896,397917	5,781	0	0	4,669	Realignment
1220_90038, 90038_1220	384848, 398013 384794,397979	8,835	10,660	10,399	2,579	
5812_90038, 90038_5812	384779, 397970 384794,397979	8,070	4,288	4,288	2,352	
90007_90098, 90098_90007	385485, 397857 385416,397769	0	657	1,630	1,379	Realignment
90005_90098, 90098_90005	385348, 397681 385416,397769	0	657	1,696	14,111	Realignment

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
90001_1341, 1341_90001	385479, 397571 385526,397653	0	22,951	35,449	33,813	
90051_3841	385285, 397429 385122,397442	0	0	18,953	20,540	Realignment
90060_90001	385643, 397524 385479,397571	0	0	34,241	34,229	Realignment
90024_90001	385286, 397442 385479,397571	0	0	23,066	23,150	Realignment
90001_90005, 90005_90001	385479, 397571 385348,397681	0	0	5,919	5,942	Realignment
90001_90051	385479, 397571 385285,397429	0	0	18,953	20,540	Realignment
2939_90060	385708, 397636 385643,397524	0	0	33,954	32,589	Realignment
5812_5860, 5860_5812	384779, 397970 384707,398084	0	0	0	4,705	Realignment
5812_5861, 5861_5812	384779, 397970 384885,397941	0	0	0	4,886	Realignment
90011_5861	384953, 397957 384885,397941	0	0	0	218	Realignment
3323_90099, 90099_3323	385117, 397820 385289,397833	0	0	0	8,291	Realignment
90009_90099	385224, 397885 385289,397833	0	0	0	6,491	Realignment
90098_90099, 90099_90098	385416, 397769 385289,397833	0	0	0	12,740	Realignment
1343_1344, 1344_1343	385375, 398047 385325,398104	44,524	44,547	36,583	37,917	
1216_1351, 1351_1216	382534, 398533 382431,398193	10,934	11,441	12,120	11,622	
1351_1352, 1352_1351	382431, 398193 382381,398127	10,934	11,441	12,120	11,622	
1214_1523, 1523_1214	385247, 399090 384976,399374	3,821	2,989	2,476	3,112	
1311_2291, 2291_1311	384128, 399470 384061,399222	28,472	27,876	26,197	27,187	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2607_2608, 2608_2607	385017, 397263	385243,397142	27,234	26,600	29,325	29,265	
12814_2675	374985, 399314	374957,399382	20,073	20,353	20,834	20,188	
1416_2906, 2906_1416	384867, 396728	384992,396818	11,480	10,988	10,390	10,738	
1202_2993, 2993_1202	382719, 397658	382656,397684	57,929	57,229	56,496	57,139	
1349_2993, 2993_1349	382498, 397725	382656,397684	57,929	57,228	56,496	57,139	
2353_3023	384501, 398933	384716,398761	18,082	17,163	16,292	16,918	
1297_3035, 3035_1297	384654, 398392	384683,398367	4,106	4,120	3,022	3,515	
2607_3056, 3056_2607	385017, 397263	384898,397366	27,234	26,600	29,325	29,265	
1314_3251, 3251_1314	386257, 399704	386170,399849	21,075	20,386	19,625	20,406	
1526_3251	386135, 399926	386170,399849	11,705	11,187	9,741	10,912	
1217_3261	384654, 398684	384625,398708	16,797	16,049	15,420	15,517	
3256_3267, 3267_3256	384850, 398842	384930,398890	17,172	18,127	19,305	17,823	
2006_3293	384159, 397893	384236,397778	4,420	4,428	4,324	4,372	
2703_3630, 3630_2703	384537, 397795	384588,397795	14,900	14,223	13,466	14,263	
1312_3923, 3923_1312	383790, 399113	383948,399172	25,338	26,315	28,268	26,469	
2291_3923, 3923_2291	384061, 399222	383948,399172	25,336	26,315	28,268	26,469	
2891_3960, 3959_2890	383444, 397137	383272,397156	87,777	86,800	84,108	86,197	
3960_3961	383272, 397156	383037,397226	10,738	10,519	9,388	9,916	
3961_3962	383037, 397226	382994,397217	24,472	24,092	22,837	23,323	
3960_3966, 3967_3959	383272, 397156	382832,397438	61,749	61,039	59,638	61,034	
1202_3967, 3966_1202	382719, 397658	382856,397436	77,955	77,564	76,338	77,278	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
4736_4737, 4737_4736	385284, 399862	385365,399971	15,769	15,150	14,449	14,889	
2938_4851, 4851_2938	385310, 397074	385267,397054	17,645	17,200	16,258	16,714	
2608_4852, 4852_2608	385243, 397142	385287,397103	27,282	26,671	29,406	29,334	
2938_4852, 4852_2938	385310, 397074	385287,397103	27,282	26,671	29,406	29,334	
2938_4854, 4854_2938	385310, 397074	385353,397054	19,779	19,941	21,014	20,618	
1355_4897, 4897_1355	382931, 398542	382905,398543	24,353	24,355	25,563	25,155	
3752_4897, 4897_3752	382846, 398544	382905,398543	24,352	24,355	25,563	25,154	
2681_4947	375175, 398721	375173,398639	22,992	22,790	22,645	22,494	
5252_5253	381118, 399404	381113,399428	22,631	21,709	21,585	21,736	
3316_5439, 5439_3316	384390, 397937	384462,398013	3,295	2,693	2,214	2,801	
5505_5507, 5507_5505	382136, 398605	382048,398647	26,142	26,390	27,155	26,737	
5703_5704, 5704_5703	385025, 399434	385090,399515	13,498	12,942	12,263	12,695	
6616_6618, 6618_6616	385871, 398350	385818,398275	11,780	11,269	9,996	11,705	
6619_6620, 6620_6619	385709, 398406	385592,398554	5,798	5,769	7,116	5,740	
6218_6848, 6848_6218	384463, 400860	384459,400884	20,462	19,523	18,623	19,242	
1502_7113, 7113_1502	386201, 399004	385975,398847	18,490	17,490	16,646	17,561	
1355_7219, 7219_1355	382931, 398542	382978,398542	24,375	24,378	25,589	25,178	
1561_7220, 7220_1561	382922, 399249	383041,399146	19,674	20,581	20,782	20,369	
7219_7220, 7220_7219	382978, 398542	383041,399146	2,444	2,048	1,258	2,475	
3265_7692, 7692_3265	384289, 398731	384322,398759	5,529	4,911	4,276	4,616	
5186_7845, 7845_5186	374472, 400723	374429,401227	21,676	21,351	21,375	21,426	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
5507_7894, 7894_5507	382048, 398647	382013,398661	26,176	26,426	27,197	26,776	
3850_7895, 7895_3850	382726, 398538	382784,398542	30,931	30,987	32,055	31,595	
3752_7895, 7895_3752	382846, 398544	382784,398542	24,352	24,353	25,562	25,153	
2007_7960, 7960_2007	383544, 398707	383459,398682	14,148	13,572	12,873	13,150	
1357_7960, 7960_1357	383170, 398561	383459,398682	12,746	13,320	13,798	13,519	
3271_8543, 8543_3271	383691, 398567	383616,398493	9,986	10,665	11,063	10,565	
1302_8546, 8546_1302	384443, 398865	384399,398827	9,425	8,717	8,173	8,661	
4362_8549, 8549_4362	385177, 399676	385172,399664	15,769	15,150	14,450	14,889	
7112_8549, 8549_7112	385166, 399650	385172,399664	15,887	15,305	14,742	15,079	
3267_8554, 8554_3267	384930, 398890	384977,398920	19,455	20,151	20,886	19,666	
6618_8581, 8581_6618	385818, 398275	385669,398061	12,487	13,094	11,043	11,201	
7113_8583, 8583_7113	385975, 398847	386174,398641	6,355	7,299	7,891	6,704	
1311_8596, 8596_1311	384128, 399470	384177,399615	28,471	27,876	26,197	27,187	
1552_8597, 8597_1552	384349, 400111	384392,400237	23,714	23,101	22,385	22,777	
2335_8597, 8597_2335	384423, 400395	384392,400237	23,907	23,296	22,519	22,951	
2336_8600, 8600_2336	384053, 401325	384102,401277	25,741	24,797	23,949	24,562	
2906_8650, 8650_2906	384992, 396818	385075,396891	11,480	10,988	10,390	10,738	
4519_8650, 8650_4519	385138, 396945	385075,396891	17,645	17,200	16,258	16,714	
12810_12811	375771, 402639	375975,402896	22,890	23,016	23,251	22,866	
5671_12823, 12824_5670	386172, 404464	385956,404763	106,929	107,786	108,275	107,828	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2335_12919, 12919_2335	384423, 400395 384434,400486	17,613	16,748	15,806	16,414	
1527_12941, 12941_1527	386613, 400182 386254,399989	24,478	23,865	23,139	23,702	
1526_12941, 12941_1526	386135, 399926 386254,399989	24,491	23,878	23,153	23,715	
1232_12945, 12945_1232	381785, 398794 381846,398748	25,499	25,867	26,771	26,255	
7692_14050, 14050_7692	384322, 398759 384357,398790	5,185	4,571	3,939	4,277	
8546_14050, 14050_8546	384399, 398827 384357,398790	7,379	6,769	6,132	6,466	
8554_14289, 14289_8554	384977, 398920 385070,398976	19,529	20,527	22,271	20,610	
1214_14289, 14289_1214	385247, 399090 385070,398976	19,529	20,526	22,271	20,610	
12919_14296, 14296_12919	384434, 400486 384449,400632	17,613	16,748	15,805	16,414	
4338_14296, 14296_4338	384455, 400679 384449,400632	17,613	16,748	15,805	16,414	
8598_14297, 14297_8598	384466, 400780 384467,400803	20,460	19,521	18,621	19,240	
6218_14297, 14297_6218	384463, 400860 384467,400803	20,460	19,521	18,621	19,240	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1216_14310, 14310_1216	382534, 398533 382464,398535	26,171	26,421	27,187	26,767	
5505_14310, 14310_5505	382136, 398605 382464,398535	26,142	26,390	27,155	26,737	
1289_14382, 14382_1289	384742, 397772 384633,397788	15,005	14,326	13,567	14,367	
3630_14383, 14384_3630	384588, 397795 384611,397794	14,900	14,223	13,466	14,262	
14382_14384, 14383_14382	384633, 397788 384610,397789	14,900	14,223	13,466	14,263	
7894_14431, 14431_7894	382013, 398661 381986,398672	25,476	25,844	26,742	26,228	
12945_14431, 14431_12945	381846, 398748 381986,398672	25,474	25,844	26,741	26,228	
3850_14502, 14502_3850	382726, 398538 382644,398537	30,905	30,959	32,024	31,567	
1216_14503, 14503_1216	382534, 398533 382598,398536	30,899	30,940	32,004	31,556	
14502_14503, 14503_14502	382644, 398537 382598,398536	30,891	30,932	31,992	31,545	
1309_14589	384169, 399035 384215,399092	19,100	18,358	17,904	18,141	
14589_14590	384215, 399092 384323,399124	19,100	18,358	17,904	18,141	
7112_14668, 14668_7112	385166, 399650 385134,399584	13,498	12,942	12,262	12,695	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
4362_14669, 14669_4362	385177, 399676 385194,399712	15,769	15,151	14,450	14,889	
4736_14669, 14669_4736	385284, 399862 385194,399712	15,769	15,151	14,450	14,889	
1291_90012, 90012_1291	384919, 398059 384899,398046	8,900	8,395	5,391	2,579	
2296_90046, 90046_2296	384988, 397737 384865,397754.5	11,988	11,265	10,268	11,293	
1289_90046, 90046_1289	384742, 397772 384865,397754.5	12,777	11,784	10,501	13,719	
1286_1287	384639, 398051 384695,397913	10,181	10,515	10,830	11,243	
3269_5416	384912, 398204 384923,398269	3,551	3,054	2,780	2,282	
1761_7215, 7215_1761	374099, 401759 374239,401660	21,564	21,452	21,480	21,507	
2610_7215, 7215_2610	374390, 401493 374239,401660	21,571	21,458	21,486	21,514	
2610_7845, 7845_2610	374390, 401493 374429,401227	19,884	19,675	19,681	19,707	
1214_8553, 8553_1214	385247, 399090 385589,398869	6,074	5,282	5,110	4,935	
3036_8557, 8557_3036	384615, 398317 384658,398226	8,491	8,771	8,606	10,270	
26792_1248, 12846_1247	375429, 397490 376178,396570	129,941	132,459	131,972	131,340	
2939_1472, 1472_2939	385708, 397636 385879,397624	25,882	30,459	28,144	27,094	
90021_1477, 1477_90021	385443, 397251 385752,397280	7,249	8,930	8,817	9,037	
4855_1481, 1481_4855	385310, 397013 385675,396685	14,712	13,192	13,573	14,193	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1502_1517, 1517_1502	386201, 399004	386614,399327	14,347	12,677	11,199	12,784	
1512_1517, 1517_1512	386410, 399496	386614,399327	25,553	24,298	23,133	24,271	
1761_1831, 1831_1761	374099, 401759	372939,401295	37,380	36,324	35,893	36,025	
90000_3623, 3623_90000	385724, 397552	385741,397366	23,775	27,808	0	0	
1510_7114, 7114_1510	385927, 398456	386233,398436	14,214	12,840	11,920	13,702	
7116_7115, 7115_7116	385636, 397839	386078,398212	3,775	2,450	2,399	2,572	
4397_14400, 14400_4397	385190, 396268	385390,395980	17,415	16,839	16,648	16,850	
31371_31372, 31372_31371	375448, 397367	375679,396963	25,142	26,201	26,276	26,207	
90060_3623, 3623_90060	385643, 397524	385741,397366	0	0	24,044	24,489	
5670_5673, 5672_5671	386177, 404521	388833,403463	96,983	97,744	98,098	97,803	
8583_7114, 7114_8583	386174, 398641	386233,398436	4,514	5,375	6,044	4,934	
6616_7115, 7115_6616	385871, 398350	386078,398212	1,645	2,228	2,784	2,467	
4854_90016, 90016_4854	385353, 397054	385634,396966	19,779	19,941	21,014	20,618	

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Table 8: Traffic data (HDV) used for the construction assessment

Road ID	Start and end coordinates	HDV				Notes
		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1217_1238, 1238_1217	384654, 398684 384727,398626	1,080	1,167	1,053	1,094	
4947_1244	375173, 398639 375232,398059	1,195	1,849	1,866	1,766	
1247_1246, 4948_1245	375368, 397542 375188,398092	4,860	4,194	4,205	4,033	
2286_1286	384566, 398000 384639,398051	377	354	358	360	
1292_1293, 1293_1292	385199, 398245 385115,398298	915	1,212	846	855	
1238_1300, 1300_1238	384727, 398626 384796,398558	840	1,051	811	860	
3261_1302	384625, 398708 384443,398865	316	310	359	354	
1341_1524, 1524_1341	385526, 397653 385639,397744	445	687	1,070	984	
1265_2057, 2057_1265	384340, 398080 384291,398029	4,253	4,251	4,298	4,297	
1282_2057, 2057_1282	384274, 398008 384291,398029	4,260	4,261	4,260	4,260	
1282_2107, 2107_1282	384274, 398008 384226,397961	3,832	3,813	3,818	3,825	
2006_2107, 2107_2006	384159, 397893 384226,397961	3,917	3,907	3,918	3,914	
5403_2286	384572, 397911 384566,398000	850	826	836	837	
1416_2312, 2312_1416	384867, 396728 385007,396536	630	917	645	650	
14591_2353	384404, 399062 384501,398933	588	587	585	578	
2673_2674	374736, 398863 374906,399065	5,689	5,379	5,374	5,302	
2686_2675, 2676_4946	375058, 399165 374957,399382	4,998	5,377	5,323	5,252	
2676_2677	374985, 399375 375125,399264	5,256	4,690	4,741	4,751	
2682_2683	375143, 398671 374969,398825	1,248	492	524	453	
2683_2684	374969, 398825 374627,398775	1,163	354	347	284	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2677_2685	375125, 399264 374813,398879	4,734	4,146	4,195	4,201	
2679_2685, 2687_2678	375383, 399195 374813,398879	2,608	2,681	2,702	2,669	
2673_2687, 2685_2684	374736, 398863 375123,399073	7,053	6,556	6,574	6,563	
2678_2688, 2689_2679	375492, 399276 377699,398858	3,753	3,886	3,945	3,920	
12815_2691, 2692_2676	374900, 399468 374589,400009	15,217	14,584	14,581	14,517	
2691_2693, 2694_2692	374589, 400009 374606,400491	13,218	12,997	13,042	13,042	
2216_2703, 2703_2216	384445, 397746 384537,397795	535	476	465	473	
2700_2707, 2708_2701	378139, 403487 380509,404583	16,382	16,322	16,318	16,353	
2707_2709, 2710_2708	380509, 404583 381209,404987	15,394	15,334	15,327	15,362	
2709_2713, 12828_2710	381209, 404987 382448,405723	17,274	17,195	17,198	17,233	
12855_2715, 2716_2714	382801, 405926 383167,406207	12,448	12,352	12,353	12,394	
14437_2717, 14278_2716	383342, 406362 386017,408615	13,423	13,364	13,409	13,432	
2717_2719, 2720_2718	386017, 408615 386698,409150	12,357	12,315	12,361	12,374	
26771_2721, 26775_2720	386805, 409185 389126,409944	14,907	14,833	14,845	14,867	
2721_2723, 2724_2722	389126, 409944 390036,410269	11,274	11,220	11,230	11,244	
2701_2729, 12813_2700	378245, 403499 376695,403166	14,890	14,827	14,827	14,862	
2731_2730, 2695_2696	376282, 403056 375798,402652	9,469	9,420	9,440	9,451	
14417_2730, 12810_2695	375944, 402795 375798,402652	7,393	7,227	7,511	7,252	
2729_2731, 2696_2698	376695, 403166 376282,403056	11,452	11,309	11,307	11,366	
14487_2732	375770, 402540 375229,401928	962	880	860	902	
2890_2892, 2893_2891	383450, 397148 384227,397216	1,834	1,914	1,897	1,931	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
5073_2892, 2893_5074	384067, 397148	384227,397216	271	991	369	332	
2894_2893, 2892_2897	384369, 397248	384230,397210	2,109	2,910	2,267	2,209	
3843_2896, 2892_2897	384571, 397315	384532,397295	1,971	2,698	2,125	2,078	
2892_2897, 2896_2894	384227, 397216	384561,397330	1,971	2,698	2,125	2,078	
1337_2905, 2905_1337	384549, 397180	384681,396997	593	814	596	608	
1341_2939, 2939_1341	385526, 397653	385708,397636	942	1,237	0	0	Realignment
1524_2939, 2939_1524	385639, 397744	385708,397636	381	568	1,060	1,036	
1343_2940, 2940_1343	385375, 398047	385587,397946	600	1,028	1,046	904	
2732_2994, 2994_2697	375229, 401928	374796,401923	2,420	2,346	2,324	2,378	
1761_2995, 2995_1761	374099, 401759	374724,401916	2,486	2,480	2,464	2,511	
2994_2995, 2995_2994	374796, 401923	374724,401916	2,407	2,335	2,313	2,366	
1289_3016, 14479_1289	384742, 397772	384704,397855	1,166	1,108	1,088	1,119	
3036_3035	384615, 398317	384683,398367	35	46	49	42	
1293_3269	385115, 398298	384912,398204	49	112	97	65	
1293_3270, 3270_1293	385115, 398298	385048,398338	870	1,134	789	795	
2006_3292, 3292_2006	384159, 397893	384076,397809	2,092	2,085	2,096	2,088	
5956_3319	384856, 397676	384821,397630	60	14	19	28	
90030_3323, 3323_90030	385137, 397833	385117,397820	307	0	0	0	Realignment
2296_3323, 3323_2296	384988, 397737	385117,397820	257	0	0	0	Realignment
3023_3384, 3384_3023	384716, 398761	384762,398792	1,104	1,120	1,097	1,093	
3256_3384, 3384_3256	384850, 398842	384762,398792	1,104	1,120	1,097	1,093	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2737_3429, 3440_2746	376060, 403282 375632,403660	7,383	7,183	7,204	7,214	
2745_3440, 3429_2738	375107, 403876 375637,403681	7,383	7,183	7,204	7,214	
1312_3583	383790, 399113 383720,399090	193	199	264	244	
1414_3584, 3584_1414	385135, 396344 385088,396417	536	828	548	555	
2312_3584, 3584_2312	385007, 396536 385088,396417	456	747	468	475	
1274_3629, 3629_1274	383135, 398777 383269,398927	522	546	595	574	
3619_3629, 3629_3619	383438, 399053 383269,398927	492	515	577	545	
3583_3635, 3635_1312	383720, 399090 383597,399087	492	515	577	545	
3619_3635, 3635_3619	383438, 399053 383597,399087	492	515	577	545	
3270_3647, 3647_3270	385048, 398338 384982,398389	850	1,091	780	767	
3319_3839, 3839_3319	384821, 397630 384829,397518	1,257	1,166	1,158	1,164	
90001_3841, 90024_1341	385479, 397571 385122,397442	1,091	1,602	0	0	Realignment
3056_3842, 3842_3056	384898, 397366 384847,397458	1,714	1,672	1,659	1,722	
3839_3842, 3842_3839	384829, 397518 384847,397458	1,536	1,456	1,451	1,457	
3841_3843, 3844_3840	385122, 397442 384571,397315	1,108	1,619	1,217	1,228	
2897_3844, 3842_3843	384561, 397330 384591,397351	1,235	1,565	1,400	1,361	
1289_3845, 3845_1289	384742, 397772 384775,397711	1,192	1,142	1,127	1,127	
3319_3845, 3845_3319	384821, 397630 384775,397711	1,192	1,142	1,127	1,127	
1414_4397, 4397_1414	385135, 396344 385190,396268	536	828	548	555	
1274_4539, 4539_1274	383135, 398777 383078,398695	522	546	595	574	
1356_4539, 4539_1356	383017, 398542 383078,398695	522	546	595	574	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2938_4853, 4853_2938	385310, 397074	385340,397104	246	279	265	271	
3289_4881, 4881_3289	384921, 398450	384907,398463	750	996	766	753	
2676_4946, 2682_2686	374985, 399375	375158,398720	4,547	4,942	4,896	4,815	
4946_4947	375158, 398720	375173,398639	392	855	838	811	
4946_4948, 1246_2682	375158, 398720	375253,397936	5,425	4,533	4,537	4,441	
1244_4950	375232, 398059	375319,397850	814	1,322	1,327	1,294	
4950_4951	375319, 397850	375352,397815	959	1,482	1,481	1,448	
4951_4952	375352, 397815	375349,397779	1,060	1,660	1,659	1,626	
2688_5056	377699, 398858	378128,398933	567	600	600	604	
5056_5057	378128, 398933	378150,398950	1,201	1,227	1,223	1,233	
5059_5060	378213, 398927	378204,398827	1,063	1,096	1,097	1,100	
5060_5061	378204, 398827	378182,398813	1,279	1,307	1,303	1,309	
5076_5071	383997, 397088	383984,397134	147	479	186	186	
5071_5072	383984, 397134	384006,397166	504	833	526	532	
5072_5073	384006, 397166	384067,397148	408	736	425	431	
2893_5074	384230, 397210	384084,397112	136	518	209	166	
5074_5075	384084, 397112	384056,397073	403	773	471	428	
5075_5076	384056, 397073	383997,397088	433	841	503	463	
4590_5177, 5177_4590	374847, 400312	374735,400449	397	356	357	358	
2691_5184	374589, 400009	374441,400669	1,091	764	739	715	
5184_5185	374441, 400669	374433,400704	1,120	795	770	747	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
5185_5186	374433, 400704	374472,400723	937	702	678	650	
2913_5403	384574, 397858	384572,397911	852	844	849	823	
1265_5404, 5404_1265	384340, 398080	384363,398107	4,151	4,149	4,195	4,197	
5403_5439, 5439_5403	384572, 397911	384462,398013	57	47	49	69	
1287_5812, 5812_1287	384695, 397913	384779,397970	78	0	0	0	Realignment
3323_5813, 5813_3323	385117, 397820	385035,397865	75	0	0	105	Realignment
5404_5856, 5856_5404	384363, 398107	384418,398056	91	86	88	88	
5439_5856, 5856_5439	384462, 398013	384418,398056	39	33	37	36	
1290_5860, 5860_1290	384723, 398093	384707,398084	75	164	139	211	
1220_5861, 5861_1220	384848, 398013	384885,397941	48	0	0	0	Realignment
5860_5868, 5868_5860	384707, 398084	384683,398072	75	164	139	154	
1286_5868, 5868_1286	384639, 398051	384683,398072	258	343	315	334	
2296_5956	384988, 397737	384856,397676	60	14	19	28	
3289_5957, 5957_3289	384921, 398450	384956,398415	850	1,091	780	767	
3647_5957, 5957_3647	384982, 398389	384956,398415	850	1,091	780	767	
1510_6616, 6616_1510	385927, 398456	385871,398350	361	339	318	326	
1510_6619, 6619_1510	385927, 398456	385709,398406	52	285	9	59	
6618_6619, 6619_6618	385818, 398275	385709,398406	153	153	142	155	
1292_6620, 6620_1292	385199, 398245	385592,398554	129	145	131	138	
2326_6620, 6620_2326	385701, 398646	385592,398554	275	258	237	252	
4337_6848, 6848_4337	384269, 401116	384459,400884	728	720	717	723	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2326_7113, 7113_2326	385701, 398646 385975,398847	455	438	437	440	
2940_7116, 90008_2940	385587, 397946 385636,397839	772	1,181	1,093	1,021	
1563_7220, 7220_1563	383136, 399062 383041,399146	642	643	701	649	
4881_7282, 7282_4881	384907, 398463 384879,398487	750	996	766	753	
1300_7282, 7282_1300	384796, 398558 384879,398487	773	1,016	776	772	
4590_7913, 7913_4590	374847, 400312 374936,400227	486	446	447	448	
2299_7947, 7947_2299	381500, 399112 381737,399473	463	453	484	449	
1365_7947, 7947_1365	382004, 399676 381737,399473	377	367	398	362	
1290_8558, 8558_1290	384723, 398093 384776,398123	41	117	96	67	
2287_8558, 8558_2287	384850, 398165 384776,398123	41	117	96	67	
1341_8562, 8562_1341	385526, 397653 385379,397676	376	360	0	0	Realignment
6619_8582, 8582_6619	385709, 398406 385611,398301	59	270	19	64	
1344_8582, 8582_1344	385325, 398104 385611,398301	229	431	143	231	
2693_12810, 14418_2694	374606, 400491 375771,402639	13,544	13,299	13,344	13,346	
2698_12813	376807, 403196 376956,403196	6,627	6,595	6,598	6,614	
2674_12814	374906, 399065 374985,399314	5,063	4,618	4,620	4,614	
2675_12815	374957, 399382 374900,399468	4,252	4,265	3,781	4,293	
12814_12815	374985, 399314 374900,399468	3,771	3,290	3,774	3,218	
5669_12824, 12823_5668	384836, 404825 385976,404785	5,832	5,829	5,838	5,835	
2714_12828, 2709_2713	382521, 405731 382294,405609	16,631	16,558	16,562	16,591	
2940_14093, 14093_2940	385587, 397946 385640,398020	711	694	669	652	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
8581_14093, 14093_8581	385669, 398061	385640,398020	711	694	669	652	
2718_14278, 14437_2717	385976, 408563	384309,407544	13,423	13,364	13,409	13,432	
4337_14298, 14298_4337	384269, 401116	384125,401253	728	720	717	723	
8600_14298, 14298_8600	384102, 401277	384125,401253	728	721	718	724	
14313_14314, 2665_12927	380590, 399525	380936,399571	916	943	945	952	
2296_14369, 14369_2296	384988, 397737	385061,397725	288	343	464	529	
14369_14370, 14370_14369	385061, 397725	385273,397693	287	342	463	529	
2730_14418, 2693_12810	375798, 402652	375630,402275	13,407	13,203	13,251	13,248	
2715_14437, 14278_2716	383167, 406207	383342,406362	13,409	13,342	13,388	13,412	
1287_14479	384695, 397913	384699,397898	654	595	572	630	
2731_14487	376282, 403056	375770,402540	962	880	860	902	
8649_14578, 14578_8649	384747, 396901	384786,396845	594	837	589	599	
1416_14578, 14578_1416	384867, 396728	384786,396845	606	849	602	612	
14590_14591	384323, 399124	384404,399062	588	587	585	578	
5814_14592, 14592_5814	384966, 397887	384995,397882	64	0	0	100	Realignment
4952_14641	375349, 397779	375351,397762	758	1,435	1,434	1,401	
15129_15128	384671, 398200	384597,398155	121	77	81	51	
1286_15128, 15128_1286	384639, 398051	384597,398155	715	623	625	610	
8557_15129, 15129_8557	384658, 398226	384671,398200	218	184	173	242	
5859_15129, 15129_5859	384695, 398150	384671,398200	110	120	105	203	
2722_26775, 26771_2721	389121, 409922	389032,409892	14,907	14,833	14,845	14,867	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
31370_31371, 31371_31370	375296, 397351	375448,397367	1,705	3,274	3,242	3,200	
14641_31371	375351, 397762	375448,397367	758	1,435	1,434	1,401	
2939_90000, 90000_2939	385708, 397636	385724,397552	457	591	0	0	Realignment
1341_90001, 90001_1341	385526, 397653	385479,397571	533	805	1,070	984	
90001_90002, 90002_90001	385479, 397571	385502,397540	53	0	0	0	Realignment
90000_90002, 90002_90000	385724, 397552	385502,397540	136	0	0	0	Realignment
90002_90003, 90003_90002	385502, 397540	385500,397523	176	0	0	0	Realignment
8562_90005, 90005_8562	385379, 397676	385348,397681	376	360	0	0	Realignment
90005_90006, 90006_90005	385348, 397681	385334,397705	101	0	0	0	Realignment
90006_90007, 90007_90006	385334, 397705	385485,397857	2	0	0	0	Realignment
1524_90008, 7116_1524	385639, 397744	385635,397808	830	1,224	1,127	1,056	
90007_90008, 90008_90007	385485, 397857	385635,397808	2	11	15	3	
8561_90009, 90009_8561	385243, 397903	385224,397885	328	493	551	724	
90006_90009, 90009_90006	385334, 397705	385224,397885	102	0	0	0	Realignment
1292_90010, 90010_1292	385199, 398245	385301,398123	869	1,125	766	775	
1344_90010, 90010_1344	385325, 398104	385301,398123	874	1,183	848	794	
90010_90011, 90011_90010	385301, 398123	384953,397957	5	59	83	18	
1220_90012, 90012_1220	384848, 398013	384899,398046	90	137	145	36	
90011_90012, 90012_90011	384953, 397957	384899,398046	5	59	83	0	
4853_90019, 90019_4853	385340, 397104	385379,397161	246	279	265	271	
90019_90021, 90021_90019	385379, 397161	385443,397251	204	234	228	236	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
90021_90022, 90022_90021	385443, 397251	385467,397363	181	120	120	121	
90003_90022, 90022_90003	385500, 397523	385467,397363	176	0	0	0	Realignment
3840_90024, 90001_3841	385106, 397456	385286,397442	1,109	1,619	663	665	
14370_90026, 90026_14370	385273, 397693	385302,397688	287	342	463	529	
90005_90026, 90026_90005	385348, 397681	385302,397688	322	371	438	541	
3323_90030, 90030_3323	385117, 397820	385137,397833	307	0	0	355	Realignment
90009_90030, 90030_90009	385224, 397885	385137,397833	312	493	551	398	
8561_90032, 90032_8561	385243, 397903	385310,397976	202	497	541	599	
1343_90032, 90032_1343	385375, 398047	385310,397976	211	600	639	616	
5861_90036, 90036_5861	384885, 397941	384896,397917	48	0	0	97	Realignment
5814_90036, 90036_5814	384966, 397887	384896,397917	52	0	0	97	Realignment
1220_90038, 90038_1220	384848, 398013	384794,397979	97	137	145	36	
5812_90038, 90038_5812	384779, 397970	384794,397979	78	30	30	45	
90007_90098, 90098_90007	385485, 397857	385416,397769	0	11	15	3	Realignment
90005_90098, 90098_90005	385348, 397681	385416,397769	0	11	80	351	Realignment
90001_1341, 1341_90001	385479, 397571	385526,397653	0	805	1,070	984	
90051_3841	385285, 397429	385122,397442	0	0	554	588	Realignment
90060_90001	385643, 397524	385479,397571	0	0	1,031	1,038	Realignment
90024_90001	385286, 397442	385479,397571	0	0	649	652	Realignment
90001_90005, 90005_90001	385479, 397571	385348,397681	0	0	362	428	Realignment
90001_90051	385479, 397571	385285,397429	0	0	554	588	Realignment

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
2939_90060	385708, 397636 385643,397524	0	0	1,014	997	Realignment
5812_5860, 5860_5812	384779, 397970 384707,398084	0	0	0	90	Realignment
5812_5861, 5861_5812	384779, 397970 384885,397941	0	0	0	115	Realignment
90011_5861	384953, 397957 384885,397941	0	0	0	18	Realignment
3323_90099, 90099_3323	385117, 397820 385289,397833	0	0	0	546	Realignment
90009_90099	385224, 397885 385289,397833	0	0	0	326	Realignment
90098_90099, 90099_90098	385416, 397769 385289,397833	0	0	0	349	Realignment
1343_1344, 1344_1343	385375, 398047 385325,398104	810	811	744	724	
1216_1351, 1351_1216	382534, 398533 382431,398193	290	284	334	316	
1351_1352, 1352_1351	382431, 398193 382381,398127	290	284	334	316	
1214_1523, 1523_1214	385247, 399090 384976,399374	121	119	92	107	
1311_2291, 2291_1311	384128, 399470 384061,399222	789	797	797	799	
2607_2608, 2608_2607	385017, 397263 385243,397142	1,627	1,650	1,644	1,624	
12814_2675	374985, 399314 374957,399382	1,292	1,327	846	1,395	
1416_2906, 2906_1416	384867, 396728 384992,396818	178	198	178	169	
1202_2993, 2993_1202	382719, 397658 382656,397684	1,659	1,741	1,733	1,746	
1349_2993, 2993_1349	382498, 397725 382656,397684	1,659	1,741	1,733	1,746	
2353_3023	384501, 398933 384716,398761	391	412	403	402	
1297_3035, 3035_1297	384654, 398392 384683,398367	37	35	20	47	
2607_3056, 3056_2607	385017, 397263 384898,397366	1,627	1,650	1,644	1,624	
1314_3251, 3251_1314	386257, 399704 386170,399849	527	551	553	540	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
1526_3251	386135, 399926	386170,399849	344	352	363	353	
1217_3261	384654, 398684	384625,398708	332	327	374	369	
3256_3267, 3267_3256	384850, 398842	384930,398890	2,149	2,142	2,110	2,108	
2006_3293	384159, 397893	384236,397778	1,652	1,650	1,648	1,652	
2703_3630, 3630_2703	384537, 397795	384588,397795	492	443	481	467	
1312_3923, 3923_1312	383790, 399113	383948,399172	638	655	720	693	
2291_3923, 3923_2291	384061, 399222	383948,399172	638	655	720	693	
2891_3960, 3959_2890	383444, 397137	383272,397156	2,171	2,286	2,239	2,273	
3960_3961	383272, 397156	383037,397226	339	339	317	321	
3961_3962	383037, 397226	382994,397217	516	514	490	497	
3960_3966, 3967_3959	383272, 397156	382832,397438	1,477	1,589	1,574	1,601	
1202_3967, 3966_1202	382719, 397658	382856,397436	1,918	1,980	1,967	1,990	
4736_4737, 4737_4736	385284, 399862	385365,399971	329	322	280	315	
2938_4851, 4851_2938	385310, 397074	385267,397054	243	319	242	234	
2608_4852, 4852_2608	385243, 397142	385287,397103	1,630	1,656	1,650	1,629	
2938_4852, 4852_2938	385310, 397074	385287,397103	1,630	1,656	1,650	1,629	
2938_4854, 4854_2938	385310, 397074	385353,397054	1,023	984	1,009	1,007	
1355_4897, 4897_1355	382931, 398542	382905,398543	1,850	1,877	1,895	1,890	
3752_4897, 4897_3752	382846, 398544	382905,398543	1,850	1,877	1,895	1,890	
2681_4947	375175, 398721	375173,398639	801	976	1,012	942	
5252_5253	381118, 399404	381113,399428	1,335	1,322	1,318	1,323	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
3316_5439, 5439_3316	384390, 397937	384462,398013	19	14	12	33	
5505_5507, 5507_5505	382136, 398605	382048,398647	1,720	1,734	1,711	1,726	
5703_5704, 5704_5703	385025, 399434	385090,399515	297	290	249	283	
6616_6618, 6618_6616	385871, 398350	385818,398275	367	356	337	349	
6619_6620, 6620_6619	385709, 398406	385592,398554	197	185	166	198	
6218_6848, 6848_6218	384463, 400860	384459,400884	780	769	768	775	
1502_7113, 7113_1502	386201, 399004	385975,398847	531	524	520	520	
1355_7219, 7219_1355	382931, 398542	382978,398542	1,851	1,879	1,896	1,892	
1561_7220, 7220_1561	382922, 399249	383041,399146	667	668	713	674	
7219_7220, 7220_7219	382978, 398542	383041,399146	26	25	12	25	
3265_7692, 7692_3265	384289, 398731	384322,398759	1,598	1,588	1,569	1,580	
5186_7845, 7845_5186	374472, 400723	374429,401227	1,006	840	800	724	
5507_7894, 7894_5507	382048, 398647	382013,398661	1,723	1,737	1,714	1,728	
3850_7895, 7895_3850	382726, 398538	382784,398542	1,898	1,909	1,934	1,931	
3752_7895, 7895_3752	382846, 398544	382784,398542	1,850	1,877	1,894	1,890	
2007_7960, 7960_2007	383544, 398707	383459,398682	459	455	448	448	
1357_7960, 7960_1357	383170, 398561	383459,398682	372	373	371	375	
3271_8543, 8543_3271	383691, 398567	383616,398493	83	83	83	83	
1302_8546, 8546_1302	384443, 398865	384399,398827	1,498	1,491	1,478	1,486	
4362_8549, 8549_4362	385177, 399676	385172,399664	329	322	280	315	
7112_8549, 8549_7112	385166, 399650	385172,399664	319	313	272	305	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
3267_8554, 8554_3267	384930, 398890	384977,398920	2,274	2,265	2,221	2,231	
6618_8581, 8581_6618	385818, 398275	385669,398061	505	491	431	454	
7113_8583, 8583_7113	385975, 398847	386174,398641	122	125	133	123	
1311_8596, 8596_1311	384128, 399470	384177,399615	789	797	797	799	
1552_8597, 8597_1552	384349, 400111	384392,400237	711	704	706	711	
2335_8597, 8597_2335	384423, 400395	384392,400237	743	737	738	743	
2336_8600, 8600_2336	384053, 401325	384102,401277	855	849	844	848	
2906_8650, 8650_2906	384992, 396818	385075,396891	178	198	178	169	
4519_8650, 8650_4519	385138, 396945	385075,396891	243	319	242	234	
12810_12811	375771, 402639	375975,402896	866	851	597	853	
5671_12823, 12824_5670	386172, 404464	385956,404763	5,465	5,461	5,470	5,467	
2335_12919, 12919_2335	384423, 400395	384434,400486	748	739	741	745	
1527_12941, 12941_1527	386613, 400182	386254,399989	956	937	933	945	
1526_12941, 12941_1526	386135, 399926	386254,399989	957	938	934	946	
1232_12945, 12945_1232	381785, 398794	381846,398748	1,887	1,902	1,879	1,894	
7692_14050, 14050_7692	384322, 398759	384357,398790	1,255	1,248	1,232	1,241	
8546_14050, 14050_8546	384399, 398827	384357,398790	1,289	1,282	1,267	1,275	
8554_14289, 14289_8554	384977, 398920	385070,398976	2,322	2,317	2,289	2,296	
1214_14289, 14289_1214	385247, 399090	385070,398976	2,322	2,317	2,289	2,296	
12919_14296, 14296_12919	384434, 400486	384449,400632	754	745	747	751	
4338_14296, 14296_4338	384455, 400679	384449,400632	754	745	747	751	

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		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
8598_14297, 14297_8598	384466, 400780 384467,400803	780	769	768	775	
6218_14297, 14297_6218	384463, 400860 384467,400803	780	769	768	775	
1216_14310, 14310_1216	382534, 398533 382464,398535	1,722	1,736	1,713	1,727	
5505_14310, 14310_5505	382136, 398605 382464,398535	1,720	1,734	1,711	1,726	
1289_14382, 14382_1289	384742, 397772 384633,397788	598	545	581	571	
3630_14383, 14384_3630	384588, 397795 384611,397794	492	443	481	467	
14382_14384, 14383_14382	384633, 397788 384610,397789	492	443	481	467	
7894_14431, 14431_7894	382013, 398661 381986,398672	1,885	1,900	1,877	1,892	
12945_14431, 14431_12945	381846, 398748 381986,398672	1,885	1,900	1,877	1,892	
3850_14502, 14502_3850	382726, 398538 382644,398537	1,896	1,907	1,932	1,929	
1216_14503, 14503_1216	382534, 398533 382598,398536	1,896	1,907	1,932	1,929	
14502_14503, 14503_14502	382644, 398537 382598,398536	1,896	1,906	1,931	1,928	
1309_14589	384169, 399035 384215,399092	500	518	515	501	
14589_14590	384215, 399092 384323,399124	500	518	515	501	
7112_14668, 14668_7112	385166, 399650 385134,399584	297	290	249	283	
4362_14669, 14669_4362	385177, 399676 385194,399712	329	322	280	315	
4736_14669, 14669_4736	385284, 399862 385194,399712	329	322	280	315	
1291_90012, 90012_1291	384919, 398059 384899,398046	85	78	62	36	
2296_90046, 90046_2296	384988, 397737 384865,397754.5	485	455	507	487	
1289_90046, 90046_1289	384742, 397772 384865,397754.5	484	450	499	486	
1286_1287	384639, 398051 384695,397913	625	588	572	630	

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			2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
3269_5416	384912, 398204	384923,398269	28	42	33	34	
1761_7215, 7215_1761	374099, 401759	374239,401660	1,024	894	854	779	
2610_7215, 7215_2610	374390, 401493	374239,401660	1,030	901	861	786	
2610_7845, 7845_2610	374390, 401493	374429,401227	954	824	784	708	
1214_8553, 8553_1214	385247, 399090	385589,398869	304	314	295	293	
3036_8557, 8557_3036	384615, 398317	384658,398226	91	72	61	117	
26792_1248, 12846_1247	375429, 397490	376178,396570	4,860	4,193	4,205	4,033	
2939_1472, 1472_2939	385708, 397636	385879,397624	936	1,368	1,234	1,218	
90021_1477, 1477_90021	385443, 397251	385752,397280	52	200	192	204	
4855_1481, 1481_4855	385310, 397013	385675,396685	721	717	721	690	
1502_1517, 1517_1502	386201, 399004	386614,399327	395	393	387	381	
1512_1517, 1517_1512	386410, 399496	386614,399327	674	707	696	679	
1761_1831, 1831_1761	374099, 401759	372939,401295	2,078	2,420	2,364	2,346	
90000_3623, 3623_90000	385724, 397552	385741,397366	333	591	0	0	
1510_7114, 7114_1510	385927, 398456	386233,398436	490	721	438	488	
7116_7115, 7115_7116	385636, 397839	386078,398212	63	56	99	63	
4397_14400, 14400_4397	385190, 396268	385390,395980	536	828	548	555	
31371_31372, 31372_31371	375448, 397367	375679,396963	1,558	2,583	2,562	2,543	
90060_3623, 3623_90060	385643, 397524	385741,397366	0	0	389	437	
5670_5673, 5672_5671	386177, 404521	388833,403463	4,984	4,979	4,981	4,984	
8583_7114, 7114_8583	386174, 398641	386233,398436	46	52	58	51	

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Road ID	Start and end coordinates	HDV				Notes
		2025 without the Proposed Scheme	2025 Scenario 1 with the Proposed Scheme	2025 Scenario 2 with the Proposed Scheme	2025 Scenario 3 with the Proposed Scheme	
6616_7115, 7115_6616	385871, 398350 386078,398212	6	17	22	23	
4854_90016, 90016_4854	385353, 397054 385634,396966	1,023	984	1,009	1,007	

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Table 9: Construction traffic flows on the site haul routes

ID	No. 40 tonne ADT	No. 20 tonne HGV	No. 40 tonne ADT (along the route)
MA07/05	0	352	0
MA08/01	0	472	0
MA08/04	0	39	0
MA08/05	0	39	0
MA08/06	0	39	0

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5 Operational traffic data

- 5.1.1 Table 10 outlines the predicted flows of traffic on the highway network relating to the operation of the Proposed Scheme in 2038. The data presented are split into AADT and HDV in the 'without the Proposed Scheme' and 'with the Proposed Scheme' scenarios, together with the change between the two scenarios. It also notes whether the road will be closed, diverted or realigned permanently, due to the operation of the Proposed Scheme.

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Table 10: Traffic data used for the operational assessment

Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
90038_1220, 1220_90038	384794, 397979 384848, 398013	9,135	2,348	-2,358	101	30	-71	
90012_1220, 1220_90012	384899, 398046 384848, 398013	9,161	0	-2,358	90	0	-90	Realignment
1217_1238, 1238_1217	384654, 398684 384727, 398626	36,732	33,495	-2,358	1,106	1,040	-66	
2286_1286	384566, 398000 384639, 398051	9,861	8,663	-2,358	384	372	-12	
1286_1287	384639, 398051 384695, 397913	10,382	11,689	-2,358	634	611	-23	
1291_1292, 1292_1291	384919, 398059 385199, 398245	9,045	2,348	-2,358	84	30	-54	
1292_1293, 1293_1292	385199, 398245 385115, 398298	44,653	37,819	-2,358	930	845	-85	
1238_1300, 1300_1238	384727, 398626 384796, 398558	35,490	32,387	-2,358	862	799	-63	
3261_1302	384625, 398708 384443, 398865	16,439	15,036	-2,358	319	320	1	
1524_1341, 1341_1524	385639, 397744 385526, 397653	25,529	0	-2,358	499	0	-499	Realignment
1343_1344, 1344_1343	385375, 398047 385325, 398104	45,811	39,410	-2,358	822	697	-125	
1341_1524, 1524_1341	385526, 397653 385639, 397744	25,529	33,989	-2,358	499	832	334	

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Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
2939_1524, 1524_2939	385708, 397636 385639, 397744	27,870	0	-2,358	391	0	-391	Realignment
1282_2107, 2107_1282	384274, 398008 384226, 397961	14,052	13,002	-2,358	3,826	3,810	-15	
5403_2286	384572, 397911 384566, 398000	10,332	9,289	-2,358	855	847	-8	
1311_2291, 2291_1311	384128, 399470 384061, 399222	29,479	27,719	-2,358	821	802	-19	
14591_2353	384404, 399062 384501, 398933	21,358	19,959	-2,358	584	583	-1	
2607_2608, 2608_2607	385017, 397263 385243, 397142	28,682	30,674	-2,358	1,623	1,676	53	
2216_2703, 2703_2216	384445, 397746 384537, 397795	17,442	15,748	-2,358	537	463	-74	
2700_2707, 2708_2701	378139, 403487 380509, 404583	206,087	207,119	-2,358	17,483	17,487	4	
2890_2892, 2893_2891	383450, 397148 384227, 397216	63,685	60,877	-2,358	1,929	1,752	-177	
2894_2893, 2892_2897	384369, 397248 384230, 397210	91,001	87,854	-2,358	2,254	2,067	-187	
3843_2896	384571, 397315 384532, 397295	90,477	87,245	-2,358	2,108	1,921	-188	
2892_2897, 2896_2894	384227, 397216 384561, 397330	90,705	87,531	-2,358	2,108	1,921	-188	

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Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
1341_2939, 2939_1341	385526, 397653 385708, 397636	25,138	0	-2,358	1,025	0	-1,025	Realignment
1524_2939, 2939_1524	385639, 397744 385708, 397636	27,870	36,949	-2,358	391	875	484	
1343_2940, 2940_1343	385375, 398047 385587, 397946	37,440	33,992	-2,358	608	591	-17	
1289_3016, 14479_1289	384742, 397772 384704, 397855	20,111	18,842	-2,358	1,181	1,122	-58	
1217_3023, 3023_1217	384654, 398684 384716, 398761	26,954	25,430	-2,358	1,208	1,153	-55	
2353_3023	384501, 398933 384716, 398761	18,770	17,369	-2,358	395	400	5	
3036_3035	384615, 398317 384683, 398367	3,823	4,908	-2,358	40	41	1	
2607_3056, 3056_2607	385017, 397263 384898, 397366	28,682	30,674	-2,358	1,623	1,676	53	
1526_3251	386135, 399926 386170, 399849	13,029	11,527	-2,358	344	355	11	
1293_3269	385115, 398298 384912, 398204	4,680	5,984	-2,358	52	67	15	
1293_3270, 3270_1293	385115, 398298 385048, 398338	40,420	36,106	-2,358	883	799	-84	
2007_3271, 3271_2007	383544, 398707 383691, 398567	9,974	10,976	-2,358	790	776	-14	

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		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
90030_3323, 3323_90030	385137, 397833 385117, 397820	11,579	0	-2,358	322	0	-322	Realignment
2296_3323, 3323_2296	384988, 397737 385117, 397820	10,851	0	-2,358	266	0	-266	Realignment
1312_3583	383790, 399113 383720, 399090	12,844	14,318	-2,358	186	232	46	
1274_3629, 3629_1274	383135, 398777 383269, 398927	28,297	29,429	-2,358	564	599	35	
2703_3630, 3630_2703	384537, 397795 384588, 397795	15,122	14,053	-2,358	498	457	-41	
3583_3635, 3635_1312	383720, 399090 383597, 399087	29,834	31,494	-2,358	502	564	62	
3619_3635, 3635_3619	383438, 399053 383597, 399087	29,834	31,494	-2,358	502	564	62	
3270_3647, 3647_3270	385048, 398338 384982, 398389	37,935	33,989	-2,358	863	773	-90	
3319_3839, 3839_3319	384821, 397630 384829, 397518	19,958	18,044	-2,358	1,271	1,176	-95	
90001_3841, 90024_1341	385479, 397571 385122, 397442	50,739	0	-2,358	1,207	0	-1,207	Realignment
3056_3842, 3842_3056	384898, 397366 384847, 397458	31,935	33,017	-2,358	1,717	1,771	54	
3839_3842, 3842_3839	384829, 397518 384847, 397458	26,348	24,616	-2,358	1,545	1,456	-89	

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		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
3841_3843, 3844_3840	385122, 397442 384571, 397315	50,809	45,188	-2,358	1,225	1,040	-185	
3842_3843	384847, 397458 384571, 397315	51,137	52,195	-2,358	1,277	1,272	-5	
2897_3844	384561, 397330 384591, 397351	51,137	52,195	-2,358	1,277	1,272	-5	
3319_3845, 3845_3319	384821, 397630 384775, 397711	16,439	14,178	-2,358	1,201	1,142	-59	
1312_3923, 3923_1312	383790, 399113 383948, 399172	25,754	26,885	-2,358	636	685	49	
2291_3923, 3923_2291	384061, 399222 383948, 399172	25,680	26,966	-2,358	634	687	53	
2891_3960, 3959_2890	383444, 397137 383272, 397156	89,337	87,582	-2,358	2,292	2,105	-187	
3960_3961	383272, 397156 383037, 397226	11,718	10,642	-2,358	375	332	-44	
3961_3962	383037, 397226 382994, 397217	25,928	24,528	-2,358	559	518	-40	
1274_4539, 4539_1274	383135, 398777 383078, 398695	28,297	29,429	-2,358	564	599	35	
1356_4539, 4539_1356	383017, 398542 383078, 398695	28,297	29,429	-2,358	564	599	35	
2938_4851, 4851_2938	385310, 397074 385267, 397054	18,875	17,546	-2,358	265	238	-27	

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		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
4519_4851, 4851_4519	385138, 396945 385267, 397054	18,875	17,546	-2,358	265	238	-27	
2938_4852, 4852_2938	385310, 397074 385287, 397103	28,735	30,750	-2,358	1,626	1,682	55	
2938_4853, 4853_2938	385310, 397074 385340, 397104	14,290	12,486	-2,358	262	283	21	
3289_4881, 4881_3289	384921, 398450 384907, 398463	31,480	28,204	-2,358	760	716	-44	
3269_5416	384912, 398204 384923, 398269	3,604	2,427	-2,358	31	27	-4	
1287_5812, 5812_1287	384695, 397913 384779, 397970	8,318	0	-2,358	82	0	-82	Realignment
1290_5860, 5860_1290	384723, 398093 384707, 398084	10,425	12,204	-2,358	88	168	80	
1220_5861, 5861_1220	384848, 398013 384885, 397941	5,674	0	-2,358	55	0	-55	Realignment
5860_5868, 5868_5860	384707, 398084 384683, 398072	10,425	11,700	-2,358	88	150	62	
1286_5868, 5868_1286	384639, 398051 384683, 398072	10,608	11,877	-2,358	270	327	57	
3289_5957, 5957_3289	384921, 398450 384956, 398415	37,935	33,990	-2,358	863	773	-90	
3647_5957, 5957_3647	384982, 398389 384956, 398415	37,935	33,989	-2,358	863	773	-90	

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		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
1510_6616, 6616_1510	385927, 398456 385871, 398350	11,003	9,864	-2,358	370	330	-40	
1510_6619, 6619_1510	385927, 398456 385709, 398406	3,940	2,574	-2,358	52	55	3	
1292_6620, 6620_1292	385199, 398245 385592, 398554	12,659	11,641	-2,358	134	120	-13	
2326_6620, 6620_2326	385701, 398646 385592, 398554	14,352	11,871	-2,358	298	256	-41	
2326_7113, 7113_2326	385701, 398646 385975, 398847	12,899	11,372	-2,358	483	437	-46	
1502_7113, 7113_1502	386201, 399004 385975, 398847	18,655	17,588	-2,358	563	526	-38	
2940_7116	385587, 397946 385636, 397839	51,334	46,112	-2,358	829	748	-81	
1563_7220, 7220_1563	383136, 399062 383041, 399146	19,338	20,774	-2,358	672	679	7	
4881_7282, 7282_4881	384907, 398463 384879, 398487	31,481	28,205	-2,358	760	716	-44	
1300_7282, 7282_1300	384796, 398558 384879, 398487	33,689	30,883	-2,358	786	735	-51	
3265_7692, 7692_3265	384289, 398731 384322, 398759	5,808	4,453	-2,358	1,590	1,561	-30	
2007_7960, 7960_2007	383544, 398707 383459, 398682	14,628	13,507	-2,358	468	444	-24	

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Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
1302_8546, 8546_1302	384443, 398865 384399, 398827	9,738	8,590	-2,358	1,501	1,473	-29	
1214_8553, 8553_1214	385247, 399090 385589, 398869	6,769	5,448	-2,358	304	295	-9	
1290_8558, 8558_1290	384723, 398093 384776, 398123	3,224	4,293	-2,358	43	66	23	
2287_8558, 8558_2287	384850, 398165 384776, 398123	3,224	4,294	-2,358	43	66	23	
6618_8581, 8581_6618	385818, 398275 385669, 398061	12,974	11,360	-2,358	536	477	-59	
6619_8582, 8582_6619	385709, 398406 385611, 398301	4,891	3,422	-2,358	62	55	-7	
1344_8582, 8582_1344	385325, 398104 385611, 398301	9,014	7,092	-2,358	233	207	-26	
1311_8596, 8596_1311	384128, 399470 384177, 399615	29,492	27,721	-2,358	822	802	-20	
4519_8650, 8650_4519	385138, 396945 385075, 396891	18,875	17,546	-2,358	265	238	-27	
1527_12941, 12941_1527	386613, 400182 386254, 399989	26,344	25,082	-2,358	960	961	2	
1526_12941, 12941_1526	386135, 399926 386254, 399989	26,359	25,097	-2,358	960	962	2	
7692_14050, 14050_7692	384322, 398759 384357, 398790	5,468	4,120	-2,358	1,250	1,227	-22	

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Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
8546_14050, 14050_8546	384399, 398827 384357, 398790	7,660	6,309	-2,358	1,288	1,264	-24	
2940_14093, 14093_2940	385587, 397946 385640, 398020	16,626	15,231	-2,358	758	687	-71	
8581_14093, 14093_8581	385669, 398061 385640, 398020	16,626	15,231	-2,358	758	687	-71	
2296_14369, 14369_2296	384988, 397737 385061, 397725	2,357	13,268	-2,358	295	487	192	
14369_14370, 14370_14369	385061, 397725 385273, 397693	2,346	13,249	-2,358	294	486	192	
1289_14382, 14382_1289	384742, 397772 384633, 397788	15,226	14,156	-2,358	602	560	-42	
3630_14383, 14384_3630	384588, 397795 384611, 397794	15,122	14,052	-2,358	498	457	-41	
14382_14384, 14383_14382	384633, 397788 384610, 397789	15,122	14,052	-2,358	498	457	-41	
1309_14589	384169, 399035 384215, 399092	19,687	18,567	-2,358	501	508	8	
14589_14590	384215, 399092 384323, 399124	19,687	18,567	-2,358	501	508	8	
14590_14591	384323, 399124 384404, 399062	21,358	19,959	-2,358	584	583	-1	
5813_14592, 14592_5813	385035, 397865 384995, 397882	5,623	7,289	-2,358	67	51	-17	

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Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
5814_14592, 14592_5814	384966, 397887 384995, 397882	5,623	7,289	-2,358	67	51	-17	
15129_15128	384671, 398200 384597, 398155	1,695	3,234	-2,358	121	65	-56	
1286_15128, 15128_1286	384639, 398051 384597, 398155	2,380	3,959	-2,358	715	620	-95	
8557_15129, 15129_8557	384658, 398226 384671, 398200	14,290	12,896	-2,358	231	208	-23	
5859_15129, 15129_5859	384695, 398150 384671, 398200	12,609	9,704	-2,358	123	154	32	
2939_90000, 90000_2939	385708, 397636 385724, 397552	26,839	0	-2,358	493	0	-493	Realignment
1341_90001, 90001_1341	385526, 397653 385479, 397571	26,753	0	-2,358	616	0	-616	Realignment
90001_90002, 90002_90001	385479, 397571 385502, 397540	2,184	0	-2,358	56	0	-56	Realignment
90000_90002, 90002_90000	385724, 397552 385502, 397540	2,196	0	-2,358	146	0	-146	Realignment
90002_90003, 90003_90002	385502, 397540 385500, 397523	4,265	0	-2,358	190	0	-190	Realignment
8562_90005, 90005_8562	385379, 397676 385348, 397681	5,652	0	-2,358	395	0	-395	Realignment
90005_90006, 90006_90005	385348, 397681 385334, 397705	4,106	0	-2,358	120	0	-120	Realignment

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Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
90006_90007, 90007_90006	385334, 397705 385485, 397857	590	0	-2,358	2	0	-2	Realignment
1524_90008, 7116_1524	385639, 397744 385635, 397808	53,393	46,756	-2,358	894	775	-119	
90007_90008, 90008_90007	385485, 397857 385635, 397808	590	1,453	-2,358	2	2	-1	
90030_90009, 90009_90030	385137, 397833 385224, 397885	10,685	4,335	-2,358	330	162	-169	
8561_90009, 90009_8561	385243, 397903 385224, 397885	10,080	11,113	-2,358	338	299	-39	
90006_90009, 90009_90006	385334, 397705 385224, 397885	4,004	0	-2,358	121	0	-121	Realignment
1292_90010, 90010_1292	385199, 398245 385301, 398123	45,001	40,834	-2,358	879	768	-111	
1344_90010, 90010_1344	385325, 398104 385301, 398123	44,959	40,903	-2,358	883	770	-113	
90010_90011, 90011_90010	385301, 398123 384953, 397957	116	69	-2,358	6	2	-4	
1220_90012, 90012_1220	384848, 398013 384899, 398046	9,161	2,348	-2,358	90	30	-60	
1291_90012, 90012_1291	384919, 398059 384899, 398046	9,045	0	-2,358	84	0	-84	
90011_90012, 90012_90011	384953, 397957 384899, 398046	116	0	-2,358	6	0	-6	Realignment

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Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
4853_90019, 90019_4853	385340, 397104 385379, 397161	14,290	12,486	-2,358	262	283	21	
90019_90021, 90021_90019	385379, 397161 385443, 397251	11,997	10,140	-2,358	218	242	24	
90021_90022, 90022_90021	385443, 397251 385467, 397363	4,687	2,597	-2,358	194	126	-68	
90003_90022, 90022_90003	385500, 397523 385467, 397363	4,266	0	-2,358	190	0	-190	Realignment
3840_90024, 90001_3841	385106, 397456 385286, 397442	51,363	24,646	-2,358	1,226	558	-668	
14370_90026, 90026_14370	385273, 397693 385302, 397688	2,346	13,249	-2,358	294	486	192	
90005_90026, 90026_90005	385348, 397681 385302, 397688	3,794	12,582	-2,358	324	494	170	
3323_90030, 90030_3323	385117, 397820 385137, 397833	11,579	2,732	-2,358	322	132	-190	
90009_90030, 90030_90009	385224, 397885 385137, 397833	10,685	0	-2,358	330	0	-330	
8561_90032, 90032_8561	385243, 397903 385310, 397976	9,901	10,930	-2,358	212	176	-37	
1343_90032, 90032_1343	385375, 398047 385310, 397976	9,710	10,920	-2,358	216	179	-38	
5861_90036, 90036_5861	384885, 397941 384896, 397917	5,674	5,272	-2,358	55	44	-11	

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Road ID	Start and end coordinates	AADT			HDV			Notes
		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
5814_90036, 90036_5814	384966, 397887 384896, 397917	6,018	5,272	-2,358	59	44	-14	
1220_90038, 90038_1220	384848, 398013 384794, 397979	9,135	0	-2,358	101	0	-101	
5812_90038, 90038_5812	384779, 397970 384794, 397979	8,318	2,200	-2,358	82	23	-58	
1289_90046, 90046_1289	384742, 397772 384865, 397754.5	12,925	14,916	-2,358	493	460	-33	
90001_1341, 1341_90001	385479, 397571 385526, 397653	0	33,989	-2,358	0	832	832	
90051_3841, 3840_90024	385285, 397429 385122, 397442	0	45,884	-2,358	0	1,065	1,065	
5812_5860, 5860_5812	384779, 397970 384707, 398084	0	4,205	-2,358	0	34	34	Realignment
5812_5861, 5861_5812	384779, 397970 384885, 397941	0	5,341	-2,358	0	47	47	Realignment
90011_5861	384953, 397957 384885, 397941	0	69	-2,358	0	2	2	Realignment
90060_90001	385643, 397524 385479, 397571	0	35,303	-2,358	0	849	849	Realignment
90001_90005, 90005_90001	385479, 397571 385348, 397681	0	6,403	-2,358	0	347	347	Realignment
90001_90051, 90024_90001	385479, 397571 385285, 397429	0	44,905	-2,358	0	1,049	1,049	Realignment

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		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
2939_90060	385708, 397636 385643, 397524	0	33,620	-2,358	0	828	828	Realignment
90007_90098, 90098_90007	385485, 397857 385375, 397789	0	1,453	-2,358	0	2	2	Realignment
90005_90098, 90098_90005	385348, 397681 385375, 397789	0	14,689	-2,358	0	260	260	Realignment
3323_90099, 90099_3323	385117, 397820 385289, 397833	0	9,404	-2,358	0	302	302	Realignment
90009_90099	385224, 397885 385289, 397833	0	6,778	-2,358	0	137	137	Realignment
90098_90099, 90099_90098	385375, 397789 385289, 397833	0	13,262	-2,358	0	258	258	Realignment
1517_1502, 1502_1517	386614, 399327 386201, 399004	14,786	12,928	-2,358	420	393	-27	
1517_1512, 1512_1517	386614, 399327 386410, 399496	26,390	24,801	-2,358	682	703	21	
1472_2939, 2939_1472	385879, 397624 385708, 397636	26,702	28,024	-2,358	998	1,015	16	
14161_8591, 8591_14161	387012, 400403 386844, 400314	23,066	21,944	-2,358	851	839	-11	
3623_90000, 90000_3623	385741, 397366 385724, 397552	24,843	0	-2,358	360	0	-360	Realignment
1477_90021, 90021_1477	385752, 397280 385443, 397251	7,718	9,169	-2,358	54	208	153	

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		2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	2038 without the Proposed Scheme	2038 with the Proposed Scheme	Change	
3623_90060, 90060_3623	385741, 397366 385643, 397524	0	25,254	-2,358	0	418	418	Realignment

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6 References

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