



## TRAFFIC AND TRANSPORT

The introduction of the Penwortham Bypass generates a significant net reduction in traffic flow through Penwortham. It is anticipated that the flow will increase on the A582 Golden Way, since this corridor will divert the traffic off the A59 Liverpool Road to the Penwortham Bypass. There will be other significant flow reductions expected to occur on a number of other links such as Lindle Lane, Pope Lane and Cop Lane.

The proposed bypass is anticipated to carry flow of approximately 22,000 vehicles in the 2019 opening year and 25,000 vehicles in the 2034 design year on average during a day.

Analysis of the percentage flow change of links in the opening and design years confirmed that a number of roads, such as the A59, Lindle Lane and Pope Lane, surrounding the proposed scheme would experience a very significant reduction in flow of between 40-70% in the AM and PM peak times.

As expected the traffic flows are forecast to increase on the A582 Golden Way by more than 50%.

Opening Year (2019) % Change in Traffic Flow – Passenger Car Units (PCU’s)

Road name	Between	Without scheme (2019)		With scheme (2019)		Change (%)	
		am	pm	am	pm	am	pm
A59 Guild Way	Port Way & A59 Liverpool Road	3599	4046	3770	3914	5	-3
Leyland Road	Holme Road (Valley Road) & Stricklands Lane	1297	1013	1323	1163	2	15
Leyland Road	Bee Lane & Studholme Avenue	1725	1423	1710	1401	-1	-2
A582 Golden Way	Valley Road & Hill Road	1937	2368	3530	4084	82	72
A582 Golden Way	Cop Lane & Penwortham Bypass Junction	1456	1708	3058	3699	110	117
A582 Golden Way	Penwortham Bypass Junction & Pope Lane	1553	1996	1571	1878	1	-6
Pope Lane	A582 Penwortham Way & Lindle Lane	860	914	587	787	-32	-14
A582 Penwortham Way	Pope Lane & Chain House Lane	1667	1807	1678	1719	1	-5
A582 Penwortham Way	Chain House Lane and Tank Roundabout	1741	1923	1775	1915	2	0
A582 Penwortham Bypass	Broad Oak Roundabout & A59 Junction	-	-	2040	2539	-	-
Cop Lane	Broad Oak Lane & Belgrave Avenue	473	685	433	394	-8	-42
A59 Liverpool Road	Hill Road & Cop Lane	2216	2390	649	717	-71	-70
A59 Liverpool Road	Crookings Lane & Clovelly Drive	1997	2287	331	548	-83	-76
A59 Liverpool Road	Howick Park Avenue & Central Drive	2040	2359	408	626	-80	-73
A59 Liverpool Road	A59 U-turn & Penwortham Bypass Junction on A59	2072	2524	424	722	-80	-71
A59 Liverpool Road	Penwortham Bypass Junction on A59 & Lindle Lane	2072	2524	2288	2916	10	16
A59 Longton Bypass	A59 Liverpool Road & Saunders Lane	1804	2211	1813	2392	1	8
Lindle Lane	A59 Liverpool Road & Blackhurst Avenue	467	464	299	278	-36	-40
Lindle Lane	Blackhurst Avenue & Pope Lane	501	591	241	327	-52	-45
Hugh Barn Lane	Moss Lane & Latimer Drive	328	305	347	324	6	6
Wham Lane	Station Road & Royalty Lane	665	686	688	730	4	6

All values expressed in PCU's. All values are two-way link flows.

Design Year (2034) % Change in Traffic Flow – Passenger Car Units (PCU’S)

Road name	Between	Without scheme (2034)		With scheme (2034)		Change (%)	
		am	pm	am	pm	am	pm
A59 Guild Way	Port Way & A59 Liverpool Road	4277	4558	4320	4456	1	-2
Leyland Road	Holme Road (Valley Road) & Stricklands Lane	1496	1439	1555	1638	4	14
Leyland Road	Bee Lane & Studholme Avenue	1834	1985	1878	2005	2	1
A582 Golden Way	Valley Road & Hill Road	2837	3022	4283	4754	51	57
A582 Golden Way	Cop Lane & Penwortham Bypass Junction	2291	2263	3794	4319	66	91
A582 Golden Way	Penwortham Bypass Junction & Pope Lane	2428	2638	2455	2570	1	-3
Pope Lane	A582 Penwortham Way & Lindle Lane	944	1121	613	752	-35	-33
A582 Penwortham Way	Pope Lane & Chain House Lane	2743	2731	2696	2525	-2	-8
A582 Penwortham Way	Chain House Lane and Tank Roundabout	2875	3160	2930	3162	2	0
A582 Penwortham Bypass	Broad Oak Roundabout & A59 Junction	-	-	2238	2909	-	-
Cop Lane	Broad Oak Lane & Belgrave Avenue	563	847	578	457	3	-46
A59 Liverpool Road	Hill Road & Cop Lane	2258	2446	650	726	-71	-70
A59 Liverpool Road	Crookings Lane & Clovelly Drive	2038	2316	359	567	-82	-76
A59 Liverpool Road	Howick Park Avenue & Central Drive	2101	2498	477	660	-77	-74
A59 Liverpool Road	A59 U-turn & Penwortham Bypass Junction on A59	2158	2592	521	746	-76	-71
A59 Liverpool Road	Penwortham Bypass Junction on A59 & Lindle Lane	2158	2592	2505	3268	16	26
A59 Longton Bypass	A59 Liverpool Road & Saunders Lane	1885	2292	1952	2540	4	11
Lindle Lane	A59 Liverpool Road & Blackhurst Avenue	537	500	339	184	-37	-63
Lindle Lane	Blackhurst Avenue & Pope Lane	661	655	324	253	-51	-61
Hugh Barn Lane	Moss Lane & Latimer Drive	530	469	496	452	-6	-4
Wham Lane	Station Road & Royalty Lane	930	906	897	923	-4	2

All values expressed in PCU's. All values are two-way link flows.

## EFFECTS ON ALL TRAVELLERS

### Pedestrians, cyclists and equestrians

Overall the effect on NMUs (non-motorised users) as a result of the proposed scheme would result in a slight beneficial impact. The presence of the scheme and its interaction with the Public Rights of Way and cycle networks is mitigated by the provision of suitable crossing facilities and diversion routes.

NMUs will benefit from the development of an extension to the existing traffic free cycle route along Howick Moor Lane strengthening the appeal of the parallel route. Additionally, the existing network will benefit from a reduction in traffic flows on the A59 Liverpool Road though Penwortham and along Lindle Lane increasing the attractiveness of these routes for NMUs.

### Driver stress

The effect on driver stress on the A59 Liverpool Road through Penwortham would be a beneficial impact. The Penwortham Bypass would lower driver stress levels from high to moderate on the A59 between Howick Moor Lane and Cop Lane with the scheme, and drivers using the bypass would experience moderate levels of driver stress along the route.

Driver stress levels on Golden Way and Lindle Lane would remain unchanged despite increase and decrease in traffic flows respectively.

### Public transport

The effect on public transport would be considered to be moderately beneficial as a result of improvements along the key public transport corridor between Hutton and Preston, along the A59 Liverpool Road through Higher Penwortham, once the scheme is operational and complementary local centre improvement measures are provided.

### Keeping you updated

Website: [www.lancashirelep.co.uk](http://www.lancashirelep.co.uk)  
Email: [citydeal@lancashire.gov.uk](mailto:citydeal@lancashire.gov.uk)  
Follow us on @lancscitydeal

