

LOCATION: Prince Edward Road.

DATE: 16-3-17

SCHOOLS SERVED: Wallands

WEATHER: Sunny

Time Period	Busiest 30 Mins	Accompanied Children	Unaccompanied Children	Vehicles
0800 – 0805				18
0805 – 0810				20
0810 – 0815			1	22
0815 – 0820				15
0820 – 0825		|||		21
0825 – 0830		||	||	26
0830 – 0835		|||||	|||	20
08.35 -08.40 0840 – 0845		|||||		31
08.45 - 08.50 0850 – 0855		|||	|||	31
		||		31
				26
0855 – 0900				19
		34	9	160

PV² Calculation

$$\begin{aligned}
 PV^2 &= (P1 + P2) \times V \times V \\
 &= (.. + ..) \times . \times . \\
 &=
 \end{aligned}$$

Site Rating

Rating (%) = $\frac{PV^2 \times \text{multiplier} \times 100}{F} \times 100 = \frac{0.48}{F} \times 100 = \boxed{} \%$

- F = 100,000,000 at sites where there is a Zebra crossing, Pelican crossing or "red/green man" phase at traffic signals.
- F = 4,000,000 at all other sites.

SCHOOL CROSSING PATROL – ADJUSTMENT FACTORS

1.	Single carriageway more than 10m wide	.....	+ 2	2
2.	Single carriageway more than 7½m wide	.....	+ 1	
3.	Footpath less than 2m wide	.....	+ 1	
4.	Down gradient more than 12½% (1 in 8)	.....	+ 2	
5.	Down gradient less than 12½% but more than 5% (1 in 20)	.....	+ 1	
6.	<u>Speed:</u>	<u>Visibility:</u>		
	(a) More than 60	Less than 100m	+ 3	
	(b) More than 60	Less than 200m: More than 100m	+ 2	
	(c) More than 60	Less than 300m: More than 200m	+ 1	
	(d) More than 50: Less than 60	Less than 75m	+ 3	
	(e) More than 50: Less than 60	Less than 100m: More than 75m	+ 2	
	(f) More than 50: Less than 60	Less than 200m: More than 100m	+ 1	
	(g) More than 40: Less than 50	Less than 60m	+ 3	
	(h) More than 40: Less than 50	Less than 100m: More than 60m	+ 2	
	(j) More than 40: Less than 50	Less than 150m: More than 100m	+ 1	
	(k) More than 30: Less than 40	Less than 50m	+ 3	
	(l) More than 30: Less than 40	Less than 75m: More than 50m	+ 2	
	(m) More than 30: Less than 40	Less than 100m: More than 75m	+ 1	
7.	(a) Speed more than 40mph with no street lighting	.....	+ 3	
	(b) Speed more than 40mph with low (5m) estate type lighting	.....	+ 2	
	(c) Speed more than 40mph with high (8-12m) main route type lighting	.....	+ 1	
8.	Visibility obstructed within 100m of site by street furniture, trees	.....	+ 1	
9.	Site complicated by road markings, i.e. turning lanes, etc., within 50m	.....	+ 1	
10.	Site within 20m of a road junction on a minor road	.....	+ 2	2
11.	Site within 20m of a road junction on a major road	.....	+ 1	
12.	Children with minimum age of 9 and over where there is a crossing point:			
	(a) within 100m	.....	+ 4	
	(b) within 100m to 200m	.....	+ 2	
	(c) within 100m of central reservation or island more than 3m wide	.....	+ 1	
13.	Pedestrian accidents between 0800 and 1730 hours within 50m of site	.....	+ 1	
14.	Where criteria are not satisfied (pedestrian flow light but vehicle traffic heavy): then at threshold value of 800m (equivalent) vehicles per hour (two-way or one-way on dual carriageway)	.....	+ 1	
15.	<u>Age Range:</u>			
	(a) 5 to 7	.....	+ 3	
	(b) 7 to 11	.....	+ 2	2
	(c) 9 to 13	.....	+ 0	
	(d) 11 to 16	.....	+ 2	
TOTAL FACTORS				6

<u>Number of Factors</u>	<u>Multiplier</u>	<u>Number of Factors</u>	<u>Multiplier</u>
1	1.100	8	2.144
2	1.210	9	2.358
3	1.331	10	2.594
4	1.464	11	2.853
5	1.610	12	3.139
<u>6</u>	<u>1.772</u>	13	3.453
7	1.949	14	3.795

- Of at least 100 vehicles during patrol period: factor = 85%ile speed minus 30 over 3. Example: $\frac{36 - 30}{3} = \text{Factor } 2.$
- N5 Less than stopping distance in adverse weather.
- One point per pedestrian injured per year on a three year average, rounded down.

	Wallands		
15/03/2017			
unaccompanied	9		
accompanied	34	43	
vehicles	160	25600	
plus pedestrians		1100800	
x 100		110080000	
factors	1.772	1950617.6	
	4000000		
pv2		0.4876544	
4000000			
100000000			