

# Appendices

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## APPENDIX A CARRIAGEWAY HIERARCHY

The Code of Practice type and description for each hierarchy category is given below, together with information on how the hierarchy has been applied locally.

### Category 1 – Motorway

Type of Road / General Description - Limited access motorway regulations apply.  
Detailed Description - Routes for fast moving long distance traffic. Fully grade separated and restrictions on use.

Local Application – While the M1, M62, M621 and M1/A1 link fall within the boundary of Leeds, these are all maintained by other agencies on behalf of the DfT. The only road maintained by Leeds City Council which falls into this category is the A64(M)/A58(M) Inner Ring Road to the north of the city centre. The length of this road is 3.5km.

### Category - 2 Strategic Routes

Type of Road / General Description – Trunk and some Principal “A” roads between primary destinations.

Detailed Description - Routes for fast moving long distance traffic with little frontage access or pedestrian traffic. Speed limits are usually in excess of 40 mph and there are few junctions. Pedestrian crossings are either segregated or controlled and parked vehicles are generally prohibited.

Local Application – Leeds has a small trunk road network of strategic routes comprising 1.3km of the A62T Gelderd Road at the M621/M1 interchange in Morley North and 13.4km of the A63T Selby Road between the A1 “Boot & Shoe PH Junction” and the new M1/A1 link junction in Garforth & Swillington / Barwick & Kippax. These are currently maintained by other agencies on behalf of the DfT, however the A63T is likely to be de-trunked and will then become a principal A classified route.

Leeds also has a significant non-trunk principal A road network and all of this has been designated as category 2 for local management of these routes. Although they do not all match the detailed description, the strategic importance of this part of the network is considered to merit this category. These roads are scheduled below.

DfT Class	Road Name	Ward	Length(Km)
A58	Whitehall Road, Wellington Road, Clay Pit Lane, Barrack Road, Roundhay Road, Easterly Road, Wetherby Road (Seacroft), Leeds Road, Main Street, Wetherby Road (Collingham).	Morley North, Wortley, City & Holbeck, University, Harehills, Chapel Allerton, Roundhay, Barwick & Kippax, Wetherby.	28.63
A61	Leeds Road, Wakefield Road, South Accommodation Road, East Street, Hunslet Distributor, Hunslet Road, Marsh Lane, Duke Street, St Peters Street, Eastgate, Regent Street, Sheepscar St South, Sheepscar St North, Scott Hall Road, Harrogate Road.	Middleton, Hunslet, Richmond Hill, City & Holbeck, University, Chapel Allerton, Moortown, North	26.36
A62	Gelder Road.	Morley North, Wortley, Beeston, City & Holbeck.	6.04
A63	Selby Road.	Burmantofts, Halton.	3.13
A64	York Road.	Burmantofts, Seacroft, Whinmoor	14.23

A65	West Street, Kirkstall Road, Commercial Road, Abbey Road, New Road Side (Horsforth), Rawdon Road, Leeds Road (Rawdon), New Road Side (Yeadon), New Road, Leeds Road (Guiseley), Otley Road, Bradford Road.	City & Holbeck, Kirkstall, Horsforth, Aireborough.	15.99
A639	Hunslet Road, Low Road, Thwaite Gate, Wakefield Road, Leeds/Pontefract Link, Leeds Road (Rothwell), Methley Lane, Leeds Road (Methley), Church Side, Barnsdale Road.	City & Holbeck, Hunslet, Rothwell, Garforth & Swillington.	13.07
A642	Wakefield Road (Rothwell), Leeds Road, Calverley Road, Aberford Road (Woodlesford), Wakefield Road, (Swillington/Garforth), Aberford Road (Garforth).	Rothwell Garforth & Swillington, Barwick & Kippax.	12.59
A643	Howden Clough Road, Bruntcliffe Lane, Victoria Road Elland Road, Ingram Distributor, Canal Street.	Morley North, Beeston, City & Holbeck.	8.90
A647	Armley Road, Stanningley Road, Stanningley By-Pass, Bradford Road.	Armley, Pudsey North.	10.47
A650	Drighlington By-Pass, Wakefield Road, Bruntcliffe Road, Britannia Road, Tingley Common, Bradford Road, Royston Hill.	Morley South, Morley North.	12.61
A653	Dewsbury Road, Meadow Road, Victoria Road, Great Wilson Street, Meadow Lane, Parkfield Street, Hunslet Lane, Crown Point Road, Marsh Lane, Black Bull Street.	Morley South, Beeston, City & Holbeck.	12.68
A654	Thorpe Lane, Middleton Lane, Thorpe Lower Lane, Leadwell Lane, Carlton Lane, Marsh Street, Oulton Lane, Rothwell Lane.	Middleton, Morley South, Rothwell.	8.45
A656	Barnsdale Road, Ridge Road.	Barwick & Kippax.	8.50
A657	Henconner Lane, Town Street (Bramley), Broad Lane, Whitecote Hill, Town Street (Rodley), Rodley Lane, Town Gate, Carr Road.	Bramley, Pudsey North.	7.15
A658	Apperley Lane, Green Lane, Harrogate Road, Victoria Avenue, Pool Bank New Road, Main Street.	Aireborough, Horsforth, Otley & Wharfedale.	9.62
A659	Bradford Road, Piper Lane, Westgate, Boroughgate, Cross Green, Pool Road, Arthington Lane, Otley Road, Harewood Ave, Harewood Road, Wattlesyke, Moor End, High Street.	Otley & Wharfedale, North, Wetherby.	25.19
A660	Woodhouse Lane, Headingley Lane, Otley Road, New Woodhouse Lane, Leeds Road, Otley Bypass, Ilkley Road.	Otley & Wharfedale, Cookridge, University, Headingley, Weetwood, City & Holbeck.	19.24
A661	Boston Road, Market Place, Westgate, Spofforth Hill.	Wetherby.	2.09
A6029	Rein Road.	Morley South.	1.28
A6038	Bradford Road (Otley), Hollins Hill, Bradford Road (Guiseley).	Otley & Wharfedale, Aireborough.	3.38
A6110	Millshaw Road, Ring Road Beeston, Ring Road Lower Wortley, Ring Road Farnley Ring Road Bramley, Ring Road West Park.	Beeston, Wortley, Weetwood.	9.81
A6120	Ring Road Farsley, Horsforth New Road, Broadway, Ring Road Weetwood, Ring Road Meanwood, Ring Road Moortown, Ring Road Shadwell, ring Road Seacroft, Ring Road Cross Gates, Station Road, Ring Road Halton	Pudsey North, Horsforth, Weetwood, Moortown, Roundhay, Whinmoor, Halton	26.84
<b>Total Length of Principal Road</b>			<b>286.25</b>

### Category 3a – Main Distributors

Type of Road / General Description – Major urban network and inter–primary links. Short to medium distance traffic.

Detailed Description Routes between Strategic routes and linking urban centres to the strategic network with limited frontage access. In urban areas speed limits are usually 40 mph or less, parking is restricted at peak times and there are positive measures for pedestrian safety.

Local Application – Urban B and C classified routes and some unclassified routes of similar strategic importance are considered to meet these criteria in Leeds rather than the 3b criteria. The main distributors are scheduled below.

<b>DfT Class</b>	<b>Street Name</b>	<b>Ward</b>	<b>Length(m)</b>
B6153	Park Road	Aireborough	901
C141	The Green	Aireborough	403
C141	Town Gate	Aireborough	72
C141	Town Street	Aireborough	250
Unclassified	High Street	Aireborough	925
Unclassified	Queensway	Aireborough	1866
Unclassified	Stocks Hill	Armley	91
Unclassified	Town Street	Armley	1141
Unclassified	Whingate	Armley	727
Unclassified	Branch Road	Armley	148
Unclassified	Henconner Lane	Armley	428
Unclassified	Wyther Lane	Armley	387
Unclassified	Armley Ridge Road	Armley	1831
Unclassified	Stanningley Road	Armley	2292
Unclassified	Ledgard Way	Armley	228
Unclassified	Canal Road	Armley	540
B6137	Leeds Road	Barwick & Kippax	1852
B6137	High Street	Barwick & Kippax	429
B6137	Longdike Lane	Barwick & Kippax	783
C12	Leeds Road	Barwick & Kippax	1583
C12	The Cross	Barwick & Kippax	51
C12	Main Street	Barwick & Kippax	2380
C284	Butt Hill	Barwick & Kippax	309
C284	Station Road	Barwick & Kippax	848
C6	Leeds Road	Barwick & Kippax	984
C6	Park Lane	Barwick & Kippax	938
Unclassified	Old Lane	Beeston	1016
B6157	Leeds And Bradford Road	Bramley	2828
B6157	Town Street	Bramley	689
B6157	Stanningley Road	Bramley	469
Unclassified	Broad Lane	Bramley	3370
Unclassified	Rock Lane	Bramley	185
B6159	Harehills Lane	Burmantofts	675
Unclassified	Compton Road	Burmantofts	325
Unclassified	Lupton Avenue	Burmantofts	815
Unclassified	Burmantofts Street	Burmantofts	291
Unclassified	Torre Road	Burmantofts	970
Unclassified	Cross Gates Road	Burmantofts	812
B6159	Potternewton Lane	Chapel Allerton	1799
B6159	Harehills Lane	Chapel Allerton	1218
Unclassified	Gledhow Valley Road	Chapel Allerton	2613
Unclassified	Stainbeck Lane	Chapel Allerton	1593
Unclassified	Northern Street	City & Holbeck	145

Unclassified	King Street	City & Holbeck	180
Unclassified	East Parade	City & Holbeck	196
Unclassified	City Square	City & Holbeck	326
Unclassified	Aire Street	City & Holbeck	176
Unclassified	Thirsk Row	City & Holbeck	40
Unclassified	Infirmity Street	City & Holbeck	192
Unclassified	Park Row	City & Holbeck	300
Unclassified	Boar Lane	City & Holbeck	313
Unclassified	Bishopgate Street	City & Holbeck	157
Unclassified	Neville Street	City & Holbeck	320
Unclassified	Cookridge Street	City & Holbeck	374
Unclassified	Great George Street	City & Holbeck	530
Unclassified	Merrion Street	City & Holbeck	336
Unclassified	Westgate	City & Holbeck	1039
Unclassified	Bridge End	City & Holbeck	190
Unclassified	New Briggate	City & Holbeck	436
Unclassified	Vicar Lane	City & Holbeck	572
Unclassified	New Market Street	City & Holbeck	100
Unclassified	Duncan Street	City & Holbeck	208
Unclassified	Kirkgate	City & Holbeck	578
Unclassified	The Headrow	City & Holbeck	1476
Unclassified	New York Road - A64(M)	City & Holbeck	325
Unclassified	Eastgate	City & Holbeck	446
Unclassified	York Street	City & Holbeck	307
Unclassified	New York Street	City & Holbeck	260
Unclassified	The Calls	City & Holbeck	475
Unclassified	Call Lane	City & Holbeck	294
Unclassified	Wortley Lane	City & Holbeck	240
Unclassified	Bridge Road	City & Holbeck	325
Unclassified	Domestic Street	City & Holbeck	794
Unclassified	Tunstall Road	City & Holbeck	656
B6154	Wellington Road	City & Holbeck	369
Unclassified	Watergate	Garforth & Swillington	90
B6137	Lidgett Lane	Garforth & Swillington	700
B6137	Main Street	Garforth & Swillington	505
C284	Berry Lane	Garforth & Swillington	330
C137	Stile Hill Way	Halton	386
B6159	Harehills Lane	Harehills	1170
Unclassified	Harehills Road	Harehills	918
B6157	North Lane	Headingley	336
B6159	Grove Lane	Headingley	1006
B6152	Micklefield Lane	Horsforth	647
C509	Station Road	Horsforth	363
C516	Troy Road	Horsforth	257

C516	Low Lane	Horsforth	1232
C516	Hawsworth Road	Horsforth	590
B6481	Pontefract Road	Hunslet	1447
B6157	Bridge Road	Kirkstall	342
B6157	Kirkstall Lane	Kirkstall	1292
Unclassified	Burley Road	Kirkstall	1237
Unclassified	Harrogate Road	Moortown	2791
Unclassified	King Lane	Moortown	2821
Unclassified	Street Lane	Moortown	1736
B6123	Fountain Street	Morley North	979
B6126	Asquith Avenue	Morley North	846
B6126	Brunswick Street	Morley North	334
B6126	Branch Road	Morley North	238
B6126	Town Street	Morley North	567
B6126	Church Street	Morley North	408
B6126	Scott Green	Morley North	420
B6126	Gildersome Lane	Morley North	646
B6127	Church Street	Morley North	408
B6127	Chapel Hill	Morley North	151
B6127	Queensway	Morley North	242
B6127	Corporation Street	Morley North	257
B6135	King Street	Morley North	371
B6135	Wakefield Road	Morley North	1079
Unclassified	Town End	Morley North	189
Unclassified	Bradford Road	Morley North	483
B6123	Wide Lane	Morley South	1360
B6123	Middleton Road	Morley South	666
B6127	Queen Street	Morley South	205
B6127	Bridge Street	Morley South	525
B6127	Chartists Way	Morley South	336
C333	King Lane	North	1879
B6152	Harrogate Road	Otley & Wharfedale	789
B6451	Bridge Street	Otley & Wharfedale	349
B6451	Gay Lane	Otley & Wharfedale	223
B6451	Bondgate	Otley & Wharfedale	199
B6451	Kirkgate	Otley & Wharfedale	185
B6451	Billams Hill	Otley & Wharfedale	191
B6451	Farnley Lane	Otley & Wharfedale	889
B6451	Clapgate	Otley & Wharfedale	97
B6451	Leeds Road	Otley & Wharfedale	541
C32	Newall Carr Road	Otley & Wharfedale	723
C32	Billams Hill	Otley & Wharfedale	172
B6154	Galloway Lane	Pudsey North	272
B6155	Richardshaw Lane	Pudsey North	827

B6156	Town Street	Pudsey North	428
B6156	Old Road	Pudsey North	631
B6157	Bradford Road	Pudsey North	1070
B6154	Pudsey Road	Pudsey South	957
B6154	Lowtown	Pudsey South	597
B6154	Hough Side Road	Pudsey South	700
B6154	Church Lane	Pudsey South	415
B6154	Chapelton	Pudsey South	272
B6154	Uppermoor	Pudsey South	461
B6154	Waterloo Road	Pudsey South	890
B6155	Lidgett Hill	Pudsey South	66
B6157	Swinnow Lane	Pudsey South	244
C505	Fartown	Pudsey South	785
C505	Greenside	Pudsey South	333
C506	Littlemoor Road	Pudsey South	814
C506	Robin Lane	Pudsey South	613
Unclassified	Pontefract Lane	Richmond Hill	2336
Unclassified	Knowsthorpe Crescent	Richmond Hill	390
Unclassified	Cross Green Lane	Richmond Hill	1067
Unclassified	Ivy Street	Richmond Hill	409
C332	Main Street	Roundhay	1935
C332	Shadwell Lane	Roundhay	665
Unclassified	Wetherby Road	Roundhay	3394
Unclassified	Oakwood Lane	Roundhay	1566
Unclassified	Princes Avenue	Roundhay	1559
Unclassified	Meanwood Road	University	3140
Unclassified	Barrack Street	University	262
Unclassified	North Street	University	746
Unclassified	Chapelton Road	University	1973
Unclassified	Roundhay Road	University	1325
Unclassified	Cross Stamford Street	University	268
Unclassified	Beckett Street	University	1029
B6157	Shaw Lane	Weetwood	353
B6157	Monk Bridge Road	Weetwood	518
B6157	Stonegate Road	Weetwood	2401
B6159	Stainbeck Road	Weetwood	162
B1224	York Road	Wetherby	489
B6164	Deighton Road	Wetherby	1206
B6164	High Street	Wetherby	164
B6164	North Street	Wetherby	341
C14	Clifford Road	Wetherby	597
C14	Bramham Road	Wetherby	707
C14	High Street	Wetherby	279
C14	Chapel Lane	Wetherby	318

C14	Boston Road	Wetherby	691
C14	Church Street	Wetherby	386
C78	Wetherby Road	Wetherby	1350
C78	Walton Road	Wetherby	2528
C134	Barwick Road	Whinmoor	1190
C134	Leeds Road	Whinmoor	1111
B6154	Tong Road	Wortley	2511
B6154	Pudsey Road	Wortley	535
<b>Total Length of Category 3a</b>			<b>142148</b>

### Category 3b – Secondary Distributors

Type of Road / General Description – Classified roads (B and C) and unclassified urban bus routes carrying local traffic with frontage access and frequent junctions.

Detailed Description In rural areas these roads link the larger villages and HGV generators to the strategic and main distributor network. In built up areas these roads have 30 mph speed limits and very high levels of pedestrian activity with some crossing facilities including zebra crossings. On street parking is generally unrestricted except for safety reasons.

Local Application – Rural B and C classified routes and major unclassified routes are considered to meet these criteria in Leeds. The secondary distributors are scheduled below.

DfT Class	Street Name	Ward	Length(m)
C141	Carlton Lane	Aireborough	1021
C501	Bingley Road	Aireborough	1867
C508	Hillings Lane	Aireborough	1214
C508	Mill Lane	Aireborough	1052
Unclassified	Gill Lane	Aireborough	614
Unclassified	Kirk Lane	Aireborough	766
Unclassified	Whack House Lane	Aireborough	358
Unclassified	Quakers Lane	Aireborough	398
Unclassified	Henshaw Lane	Aireborough	644
Unclassified	Town Street	Aireborough	111
Unclassified	Harper Lane	Aireborough	521
Unclassified	Cemetery Road	Aireborough	1480
Unclassified	Haw Lane	Aireborough	1225
Unclassified	Moor Lane	Aireborough	698
Unclassified	Oxford Road	Aireborough	406
Unclassified	Netherfield Road	Aireborough	1072
Unclassified	Moor Top	Aireborough	1476
Unclassified	Windmill Lane	Aireborough	520
Unclassified	Chevin End Road	Aireborough	869

Unclassified	Back Lane	Aireborough	844
Unclassified	Thorpe Lane	Aireborough	1421
Unclassified	Odda Lane	Aireborough	465
Unclassified	Old Lane	Aireborough	454
Unclassified	Hawksworth Lane	Aireborough	1582
Unclassified	Main Street	Aireborough	521
Unclassified	Carr Crofts	Armley	380
Unclassified	Moorfield Road	Armley	580
Unclassified	Theaker Lane	Armley	671
Unclassified	Back Lane	Armley	281
Unclassified	Hough End Lane	Armley	387
Unclassified	Wyther Park Road	Armley	413
Unclassified	Raynville Road	Armley	1318
Unclassified	Green Hill Road	Armley	973
Unclassified	Cockshott Lane	Armley	673
C12	Aberford Road	Barwick & Kippax	3058
C12	Cattle Lane	Barwick & Kippax	263
C13	Bramham Road	Barwick & Kippax	1491
C140	Long Lane	Barwick & Kippax	1874
C140	Potterton Lane	Barwick & Kippax	1513
C140	Kiddal Lane	Barwick & Kippax	793
C258	Claypit Lane	Barwick & Kippax	1619
C258	Holyrood Lane	Barwick & Kippax	1300
C259	Lotherton Lane	Barwick & Kippax	2051
C286	Carr Lane	Barwick & Kippax	2586
C302	Brandon Lane	Barwick & Kippax	680
C6	Queen Street	Barwick & Kippax	719
C93	Back Newton Lane	Barwick & Kippax	3052
C95	Newton Lane	Barwick & Kippax	3052
B1217	Collier Lane	Barwick & Kippax	1857
B1217	Aberford Road	Barwick & Kippax	1156
C12	Bunkers Hill	Barwick & Kippax	1366
C13	Thorner Lane	Barwick & Kippax	2235
C13	Main Street	Barwick & Kippax	590
C13	Church Hill	Barwick & Kippax	316
C13	Church View	Barwick & Kippax	241
Unclassified	Barkly Road	Beeston	805
Unclassified	Town Street	Beeston	514
Unclassified	Millshaw	Beeston	487
Unclassified	Cottingley Drive	Beeston	1991
Unclassified	Garnet Road	Beeston	464
Unclassified	Parkside Lane	Beeston	674
Unclassified	Middleton Grove	Beeston	517
Unclassified	Westland Road	Beeston	551

Unclassified	Parkwood Road	Beeston	913
Unclassified	Pollard Lane	Bramley	1059
Unclassified	Calverley Lane	Bramley	1094
Unclassified	Intake Lane	Bramley	697
Unclassified	Coal Hill Lane	Bramley	1112
Unclassified	Half Mile Lane	Bramley	788
Unclassified	Intercity Way	Bramley	439
Unclassified	Hough Lane	Bramley	1204
Unclassified	Foundry Lane	Burmantofts	880
Unclassified	South Parkway Approach	Burmantofts	294
Unclassified	Wykebeck Valley Road	Burmantofts	1188
Unclassified	Gipton Approach	Burmantofts	630
Unclassified	Foundry Approach	Burmantofts	1043
Unclassified	Hudson Road	Burmantofts	488
Unclassified	Stoney Rock Lane	Burmantofts	865
Unclassified	Nippet Lane	Burmantofts	250
Unclassified	Harehills Avenue	Chapel Allerton	1217
Unclassified	Buslingthorpe Lane	Chapel Allerton	655
Unclassified	Henconner Lane	Chapel Allerton	539
Unclassified	Church Lane	Chapel Allerton	309
Unclassified	Queen Street	City & Holbeck	203
Unclassified	Park Place	City & Holbeck	266
Unclassified	Quebec Street	City & Holbeck	167
Unclassified	Albion Street South	City & Holbeck	155
Unclassified	Mill Hill	City & Holbeck	71
Unclassified	Swinegate	City & Holbeck	264
Unclassified	Sovereign Street	City & Holbeck	275
Unclassified	Calverley Street	City & Holbeck	464
Unclassified	Portland Street	City & Holbeck	123
Unclassified	Portland Way	City & Holbeck	186
Unclassified	Portland Gate	City & Holbeck	42
Unclassified	Merrion Way	City & Holbeck	238
Unclassified	Wade Lane	City & Holbeck	490
Unclassified	Bridge Street South	City & Holbeck	41
Unclassified	Clarence Road	City & Holbeck	429
Unclassified	Jack Lane	City & Holbeck	884
Unclassified	Copley Hill	City & Holbeck	434
Unclassified	Oldfield Lane	City & Holbeck	1039
Unclassified	Wortley Lane	City & Holbeck	75
Unclassified	Spence Lane	City & Holbeck	174
Unclassified	Globe Road	City & Holbeck	441
Unclassified	Water Lane	City & Holbeck	940
Unclassified	Holbeck Lane	City & Holbeck	339
Unclassified	Nineveh Road	City & Holbeck	395

Unclassified	Marshall Street	City & Holbeck	565
Unclassified	Bath Road	City & Holbeck	331
Unclassified	Sweet Street	City & Holbeck	475
Unclassified	Ingram Row	City & Holbeck	85
Unclassified	Sydenham Street	City & Holbeck	183
Unclassified	Top Moor Side	City & Holbeck	398
Unclassified	Ingram Road	City & Holbeck	696
Unclassified	Elland Road	City & Holbeck	961
Unclassified	Wesley Street	City & Holbeck	613
Unclassified	Cemetery Road	City & Holbeck	677
Unclassified	Beeston Road	City & Holbeck	1750
Unclassified	Hunslet Hall Road	City & Holbeck	540
C142	Otley Old Road	Cookridge	2266
C142	Cookridge Lane	Cookridge	1477
C516	Tinshill Road	Cookridge	1286
Unclassified	Silk Mill Drive	Cookridge	898
Unclassified	Tinshill Lane	Cookridge	1295
Unclassified	Green Lane	Cookridge	1431
Unclassified	Holtdale Approach	Cookridge	1100
Unclassified	Holt Lane	Cookridge	1794
Unclassified	Farrar Lane	Cookridge	1442
Unclassified	New Adel Lane	Cookridge	886
Unclassified	Church Lane	Cookridge	1155
Unclassified	Back Church Lane	Cookridge	318
Unclassified	Adel Lane	Cookridge	1291
Unclassified	St Helens Lane	Cookridge	829
Unclassified	Long Causeway	Cookridge	1700
Unclassified	Sir George Martin Drive	Cookridge	980
Unclassified	Church Lane	Garforth & Swillington	793
Unclassified	Lotherton Way	Garforth & Swillington	303
Unclassified	Parkinson Approach	Garforth & Swillington	268
Unclassified	Ninelands Lane	Garforth & Swillington	801
Unclassified	Bar Lane	Garforth & Swillington	82
Unclassified	Sturton Lane	Garforth & Swillington	188
Unclassified	New Sturton Lane	Garforth & Swillington	285
Unclassified	Swillington Lane	Garforth & Swillington	1781
Unclassified	Leeds Lane	Garforth & Swillington	891
Unclassified	Church Lane	Garforth & Swillington	631
Unclassified	Lower Mickletown	Garforth & Swillington	365
B6135	Watergate	Garforth & Swillington	1489
B6135	Newmarket Lane	Garforth & Swillington	574
C137	Bullerthorpe Lane	Garforth & Swillington	1827
C138	Leeds Lane	Garforth & Swillington	716
C138	Whitehouse Lane	Garforth & Swillington	2247

C138	Preston Lane	Garforth & Swillington	1018
C138	Swillington Lane	Garforth & Swillington	459
C140	Barwick Road	Garforth & Swillington	1670
C542	Park Lane	Garforth & Swillington	1297
C543	Church Lane	Garforth & Swillington	589
C543	Savile Road	Garforth & Swillington	537
C543	Pinfold Lane	Garforth & Swillington	980
C6	Astley Lane	Garforth & Swillington	2307
C284	Berry Lane	Garforth & Swillington	330
C137	Bullerthorpe Lane	Halton	1459
Unclassified	Chapel Street	Halton	393
Unclassified	Templenewsam Road	Halton	1935
Unclassified	Colton Road	Halton	666
Unclassified	Colton Lane	Halton	1048
Unclassified	Colton Road East	Halton	503
Unclassified	Newsam Green Road	Halton	1246
Unclassified	Austhorpe Road	Halton	825
Unclassified	Manston Lane	Halton	1594
Unclassified	Whitkirk Lane	Halton	246
Unclassified	Austhorpe Lane	Halton	1128
Unclassified	Smeaton Approach	Halton	1724
Unclassified	Church Lane	Halton	929
Unclassified	Hollyshaw Lane	Halton	739
Unclassified	Cross Green Lane	Halton	580
Unclassified	Green Lane	Halton	650
Unclassified	Dib Lane	Harehills	687
Unclassified	Amberton Road	Harehills	834
Unclassified	Gipton Wood Road	Harehills	743
Unclassified	Stanley Road	Harehills	326
Unclassified	Ashley Road	Harehills	438
Unclassified	Ash Road	Headingley	886
Unclassified	Cardigan Road	Headingley	1645
Unclassified	Victoria Road	Headingley	887
Unclassified	Brudenell Road	Headingley	789
Unclassified	Royal Park Road	Headingley	598
Unclassified	Hyde Park Road	Headingley	1094
C509	Brownberrie Lane	Horsforth	1270
C509	Layton Road	Horsforth	657
C509	Town Street	Horsforth	689
Unclassified	Calverley Lane Total	Horsforth	728
Unclassified	Broadgate Lane	Horsforth	992
Unclassified	Long Row	Horsforth	650
Unclassified	Lister Hill	Horsforth	210
Unclassified	Fink Hill	Horsforth	366

Unclassified	Hall Lane	Horsforth	1130
Unclassified	Scotland Lane	Horsforth	2532
Unclassified	Layton Lane	Horsforth	516
Unclassified	National Road	Hunslet	440
Unclassified	Church Street	Hunslet	860
Unclassified	New Pepper Road	Hunslet	93
Unclassified	Pepper Lane	Hunslet	233
Unclassified	Pepper Road	Hunslet	692
Unclassified	Balm Road	Hunslet	625
Unclassified	Moor Road	Hunslet	745
Unclassified	Middleton Road	Hunslet	1540
Unclassified	Belle Isle Road	Hunslet	4296
Unclassified	Belle Isle Circus	Hunslet	420
Unclassified	Sharp Lane	Hunslet	240
Unclassified	Willow Road	Kirkstall	184
Unclassified	Burley Lodge Road	Kirkstall	432
Unclassified	St Michaels Lane	Kirkstall	1199
Unclassified	St Anns Lane	Kirkstall	477
Unclassified	Kirkstall Hill	Kirkstall	785
Unclassified	Viaduct Road	Kirkstall	447
Unclassified	Morris Lane	Kirkstall	871
Unclassified	Vesper Road	Kirkstall	1516
Unclassified	Butcher Hill	Kirkstall	1076
Unclassified	Spen Lane	Kirkstall	3006
Unclassified	Queenswood Drive	Kirkstall	1948
B6135	Lingwell Gate Lane	Middleton	347
B6135	Longthorpe Lane	Middleton	1476
B6135	Jumbles Lane	Middleton	157
C536	Gascoigne Road	Middleton	336
C536	Stanhope Road	Middleton	227
C536	Lingwell Gate Lane	Middleton	132
Unclassified	Ring Road Beeston Park	Middleton	1905
Unclassified	Middleton Park Road	Middleton	2060
Unclassified	Ring Road Middleton	Middleton	3694
Unclassified	Sharp Lane	Middleton	1582
Unclassified	Town Street	Middleton	2184
Unclassified	Copley Lane	Middleton	216
Unclassified	Sissons Road	Middleton	1620
Unclassified	Middleton Park Circus	Middleton	591
Unclassified	Middleton Park Avenue	Middleton	1008
Unclassified	Station Lane	Middleton	789
Unclassified	Carlton Lane	Middleton	177
Unclassified	Parkside Road	Moortown	1415
Unclassified	Tongue Lane	Moortown	954

B6123	Scotchman Lane	Morley North	1508
B6125	Station Road	Morley North	885
B6135	Bradford Road	Morley North	1373
C535	Station Road	Morley North	140
Unclassified	Scatcherd Lane	Morley North	599
Unclassified	St Andrews Avenue	Morley North	405
Unclassified	Queens Promenade	Morley North	190
Unclassified	Street Lane	Morley North	939
Unclassified	Moorside Road	Morley North	826
Unclassified	Moorland Road	Morley North	565
Unclassified	West Street	Morley North	310
Unclassified	Hodgson Lane	Morley North	771
C530	Heybeck Lane	Morley South	201
C530	Batley Road	Morley South	2236
C534	Syke Road	Morley South	304
C534	Baghill Road	Morley South	657
C535	Albert Road	Morley South	1242
C536	Main Street	Morley South	592
C536	Fall Lane	Morley South	660
C536	Chapel Street	Morley South	108
Unclassified	Wide Lane	Morley South	2003
Unclassified	Commercial Street	Morley South	629
Unclassified	King Street	Morley South	251
Unclassified	South Queen Street	Morley South	212
Unclassified	Thorpe Road	Morley South	107
Unclassified	Main Street	Morley South	590
Unclassified	Common Lane	Morley South	1189
Unclassified	Thorpe Lane	Morley South	836
Unclassified	Westerton Road	Morley South	2188
Unclassified	Haigh Moor Road	Morley South	1261
Unclassified	Woodhouse Lane	Morley South	2067
Unclassified	High Street	Morley South	926
C179	Alwoodley Lane	North	2537
C301	Shadwell Lane	North	1736
C301	Wike Ridge Lane	North	2056
C301	Backstone Gill Lane	North	914
C302	Forge Lane	North	600
C302	Coal Road	North	1183
C302	Wike Lane	North	913
C333	King Lane	North	954
C333	Arthington Road	North	617
C333	Kings Road	North	1154
Unclassified	Black Moor Road	North	782
Unclassified	Nursery Lane	North	1450

Unclassified	Wigton Lane	North	1884
Unclassified	Tarn Lane	North	2280
Unclassified	Fortshot Lane	North	1240
Unclassified	Eccup Lane	North	4315
Unclassified	Black Hill Lane	North	1138
Unclassified	White House Lane	Otley & Wharfedale	1206
Unclassified	Warren House Lane	Otley & Wharfedale	651
Unclassified	Kings Road	Otley & Wharfedale	1192
Unclassified	Black Hill Road	Otley & Wharfedale	2682
Unclassified	East Chevin Road	Otley & Wharfedale	2835
Unclassified	Birdcage Walk	Otley & Wharfedale	919
Unclassified	West Chevin Road	Otley & Wharfedale	1927
Unclassified	Burras Lane	Otley & Wharfedale	732
Unclassified	Over Lane	Otley & Wharfedale	470
Unclassified	Batter Lane	Otley & Wharfedale	406
C119	Weston Lane	Otley & Wharfedale	1298
C141	Carlton Lane	Otley & Wharfedale	2178
C141	Otley Old Road	Otley & Wharfedale	631
C142	Church Hill	Otley & Wharfedale	202
C142	Moor Road	Otley & Wharfedale	1394
C142	Church Hill	Otley & Wharfedale	183
C509	Over Lane	Otley & Wharfedale	474
B6156	Calverley Lane	Pudsey North	1289
C507	Bagley Lane	Pudsey North	1127
Unclassified	Richardshaw Road	Pudsey North	1130
Unclassified	Woodhall Lane	Pudsey North	1287
Unclassified	Woodhall Road	Pudsey North	1665
C505	Roker Lane	Pudsey South	1597
Unclassified	Swinnow Road	Pudsey South	1237
Unclassified	Hough Top	Pudsey South	793
Unclassified	Hough Tree Road	Pudsey South	78
Unclassified	Hough Side Lane	Pudsey South	467
Unclassified	Kent Road	Pudsey South	1300
Unclassified	Lane End	Pudsey South	392
Unclassified	Troydale Lane	Pudsey South	726
Unclassified	Valley Road	Pudsey South	919
Unclassified	Victoria Road	Pudsey South	483
Unclassified	Marsh	Pudsey South	387
Unclassified	Owlcotes Road	Pudsey South	717
Unclassified	Upper Accommodation Road	Richmond Hill	638
Unclassified	Osmondthorpe Lane	Richmond Hill	1350
Unclassified	Halton Moor Avenue	Richmond Hill	1450
B6135	Ouzelwell Green	Rothwell	434
B6135	Green Lane	Rothwell	574

C540	Church Street	Rothwell	148
C540	Wood Lane	Rothwell	1827
C541	Stainton Lane	Rothwell	396
C541	Main Street	Rothwell	239
C541	New Road	Rothwell	145
C541	Town Street	Rothwell	254
C541	Ouzlewell Green	Rothwell	678
Unclassified	Station Lane	Rothwell	118
Unclassified	Church Street	Rothwell	758
Unclassified	Holmsley Lane	Rothwell	1076
Unclassified	Haigh Road	Rothwell	1145
Unclassified	Gillett Lane	Rothwell	136
Unclassified	Wood Lane	Rothwell	2536
Unclassified	Cemetery Lane	Rothwell	687
Unclassified	Newmarket Lane	Rothwell	650
C302	Bay Horse Lane	Roundhay	854
Unclassified	North Lane	Roundhay	250
Unclassified	Gledhow Lane	Roundhay	2145
Unclassified	Lidgett Lane	Roundhay	1917
Unclassified	Old Park Road	Roundhay	1566
Unclassified	Whinmoor Lane	Roundhay	1222
Unclassified	Blind Lane	Roundhay	358
Unclassified	South Parkway	Seacroft	2452
Unclassified	Old York Road	Seacroft	1636
Unclassified	Kentmere Avenue	Seacroft	2086
Unclassified	Limewood Approach	Seacroft	321
Unclassified	Woodhouse Street	University	1052
Unclassified	Sackville Street	University	227
Unclassified	Servia Hill	University	555
Unclassified	Lovell Park Road	University	698
Unclassified	Bridge Street	University	239
Unclassified	Roundhay Road	University	488
Unclassified	Lincoln Green Road	University	347
Unclassified	Accommodation Road	University	126
Unclassified	Weetwood Lane	Weetwood	1893
B1224	York Road	Wetherby	2122
C114	Crabtree Lane	Wetherby	553
C114	Whitegate	Wetherby	250
C114	Main Street	Wetherby	539
C114	Keswick Lane	Wetherby	795
C114	Wike lane	Wetherby	213
C13	Tenter Hill	Wetherby	642
C13	Thorner Road	Wetherby	2264
C166	Aberford Road	Wetherby	557

C166	Toulston Lane	Wetherby	1667
C180	Sicklinghall Road	Wetherby	1930
C180	Linton Road	Wetherby	650
C301	Wike Lane	Wetherby	1469
C78	Wighill Lane	Wetherby	1740
C79	Bridge Foot	Wetherby	367
C79	Church Causeway	Wetherby	543
C79	Walton Road	Wetherby	1217
Unclassified	New Road	Wetherby	161
Unclassified	Wetherby Road	Wetherby	311
Unclassified	Thorner Lane	Wetherby	1877
Unclassified	Bowcliffe Road	Wetherby	344
Unclassified	Windmill Road	Wetherby	1259
Unclassified	Bar Lane	Wetherby	1058
Unclassified	Clifford Moor Road	Wetherby	780
Unclassified	Bridge Road	Wetherby	154
Unclassified	Horsefair	Wetherby	104
Unclassified	Linton Road	Wetherby	754
Unclassified	Whitegate	Wetherby	332
Unclassified	Linton Road	Wetherby	790
Unclassified	Walton Road	Wetherby	427
Unclassified	Linton Lane	Wetherby	1394
C115	Coal Road	Whinmoor	2434
C12	Main Street	Whinmoor	739
C12	Scholes Lane	Whinmoor	575
C12	Station Road	Whinmoor	606
Unclassified	Sherburn Road North	Whinmoor	1211
Unclassified	Naburn Approach	Whinmoor	1258
Unclassified	Stanks Drive	Whinmoor	1854
Unclassified	Sherburn Road	Whinmoor	426
Unclassified	Stanks Lane South	Whinmoor	457
Unclassified	Eastwood Lane	Whinmoor	420
Unclassified	Branch Road	Wortley	320
Unclassified	Branch Street	Wortley	139
Unclassified	Dixon Lane	Wortley	763
Unclassified	Upper Wortley Road	Wortley	514
<b>Total Length of Category 3b</b>			<b>378212</b>

Note: the total length of the named streets in categories 3a) and 3b) will be greater than the length stated if the full length does not meet the criteria. These schedules are a first draft and need refining, eg to identify where a road is in more than one ward.

## **Category 4a - Link Roads**

Type of Road / General Description – Roads linking between main and secondary distributor network with frontage access and frequent junctions.

Detailed Description - In rural areas these roads link the smaller villages to the distributor roads. They are of varying width and not always capable of carrying two way traffic. In urban areas they are residential or industrial inter-connecting roads with 30mph speed limits, random pedestrian movements and uncontrolled parking.

Local Application – all roads not designated to categories 1,2,3 or 4b.

## **Category 4b - Local Access Roads**

Type of Road / General Description – Roads serving limited numbers of properties carrying only access traffic.

Detailed Description - In rural areas these roads serve small settlements and provide access to individual properties and land. They are often only single lane width and unsuitable for HGV. In urban areas they are often residential loop roads or culs de sac.

Local Application – All culs de sac and blocks of parallel residential streets which are only used by residents and their visitors



## APPENDIX B FOOTWAY HIERARCHY

The Code of Practice type and description for each hierarchy category is given below, together with information on how the hierarchy has been applied locally.

### Category 1a – Prestige Walking Zone

Brief Description - Prestige Areas in towns and cities with exceptionally high usage, such as Prince's Street in Edinburgh and Oxford Street in London

Local Application – Footways in the Landmark area of the city centre have been allocated this category as scheduled below.

Ward	Street Name	Location	Length (m)
City & Holbeck	Albion Place	Briggate - Albion Street	178
City & Holbeck	Albion Street South	Boar Lane - Albion Place	182
City & Holbeck	Albion Street South	Commercial Street - The Headrow	220
City & Holbeck	Briggate	Boar Lane - The Headrow	335
City & Holbeck	Commercial Street	Briggate - Albion Street	175
City & Holbeck	King Edward Street	Vicar Lane – Briggate	108
City & Holbeck	Kirkgate	Vicar Lane – Briggate	130
City & Holbeck	Lands Lane	Albion Place -The Headrow	145
City & Holbeck	Trinity Street	Boar Lane to Top	21
City & Holbeck	Trinity Street	Top Square	21
City & Holbeck	Trinity Street	Commercial Street - To End	41
<b>Total Length of Category 1A</b>			<b>1556</b>

### Category 1 - Primary Walking Route

Brief Description - Busy urban shopping and business areas and main pedestrian routes linking interchanges between different modes of transport, such as railways and underground stations bus stops etc.

Local Application – City centre shopping areas and links to bus and railway stations, theatres, sporting venues etc. Also other major shopping centres and town centres. All as scheduled below.

Ward	Street Name	Location	Length
Aireborough	The Green	A65 – Towngate	381
Aireborough	Otley Road	The Green - Oxford Rd	442
Aireborough	Oxford Road	Netherfield Road - A65	106
Aireborough	Town Street	High Street - Kirk Lane	111
Aireborough	High Street	Victoria Ave - Ivegate	969
Armley	Branch Road	Armley Road - Stocks Hill	148
Armley	Crab Lane	Armley Road - Stocks Hill	104
City & Holbeck	Aire Street	Wellington Street - Thirsk Row	176
City & Holbeck	Bedford Street	East Parade - Park Row	139
City & Holbeck	Central Road	Duncan Street – Kirkgate	111
City & Holbeck	Fish Street	Vicar Lane – Kirkgate	99
City & Holbeck	Oxford Row	Paved area to Headrow	96
Ward	Street Name	Location	Length

City and Holbeck	Belgrave Street	Cross Belgrave Street - Wade Lane	142
City and Holbeck	Bishopgate Street	Swinegate - City Square	157
City and Holbeck	Boar Lane	City Square - Briggate	313
City and Holbeck	Bond Court	Park Row – End	130
City and Holbeck	Britannia Street	Wellington St - York Place	67
City and Holbeck	Call Lane	Kirkgate – Briggate	110
City and Holbeck	Calverley Street	The Headrow - Willow Terrace Rd	464
City and Holbeck	City Square	Park Row – Infirmary Street	326
City and Holbeck	Cookridge Street	The Headrow - Woodhouse Lane	374
City and Holbeck	Duncan Street	New Market Street - Call Lane	208
City and Holbeck	Dyer Street	Millgarth Street - St Peters Street	78
City and Holbeck	East Parade	St Pauls Street - The Headrow	196
City and Holbeck	Eastgate	New York Road - Vicar Lane	626
City and Holbeck	George Street	Harewood Street - Millgarth Street	172
City and Holbeck	Great George Street	Woodhouse Lane - Park Street	530
City and Holbeck	Greek Street	East Parade - Park Row	145
City and Holbeck	Harewood Street	Eastgate - George Street	116
City and Holbeck	Harper Street	New York Street – Kirkgate	60
City and Holbeck	Infirmary Street	City Square - East Parade	192
City and Holbeck	King Street	Wellington Street - St Pauls Street	180
City and Holbeck	Kirkgate	High Court - Vicar Lane	290
City and Holbeck	Kirkgate	Duke Street - High Court	158
City and Holbeck	Little Queen Street	Wellington St - St Pauls Street	206
City and Holbeck	Ludgate Hill	Vicar Lane - Harewood Street	47
City and Holbeck	Merrion Street	Albion Street - New Briggate	256
City and Holbeck	Merrion Way	Wade Lane - Claypit Lane	238
City and Holbeck	Neville Street	Victoria Road - Bishopgate Street	320
City and Holbeck	New Market Street	Kirkgate – Duncan Street	100
City and Holbeck	New York Street	Kirkgate – Church Lane	260
City and Holbeck	Northern Street	Wellington Street- Whitehall Road	145
City and Holbeck	Oxford Place	St George Street - Westgate	110
City and Holbeck	Oxford Row	Great George Street to Paved Area	43
City and Holbeck	Park Place	Queen Street - King Street	266
City and Holbeck	Park Row	The Headrow - City Square	300
City and Holbeck	Park Square East	Westgate - St Pauls Street	169
City and Holbeck	Park Square North	Park Square West - Park Square East	110
City and Holbeck	Park Square South	Park Square West - Park Square East	47
City and Holbeck	Park Square West	Westgate - St Pauls Street	140
City and Holbeck	Park Street	Westgate - Great George Street	154
City and Holbeck	Portland Crescent	Woodhouse Lane - Great George Street	304
City and Holbeck	Portland Street	Calverley St - St George Street	123
City and Holbeck	Portland Way	Calverley St - Woodhouse Lane	186
City and Holbeck	Quebec Street	City Square - King Street	167
City and Holbeck	Queen Street	Wellington St -St Pauls Street	203
City and Holbeck	Sidney Street	Vicar Lane - Harewood Street	37
City and Holbeck	South Parade	East Parade - Park Row	130
City and Holbeck	St Pauls Place	St Pauls Street - Park Square South	40
City and Holbeck	St Pauls Street	King Street - End (Police HQ)	350
City and Holbeck	The Headrow	Oxford Place - Park Square East	1463
City and Holbeck	Thirsk Row	Wellington Street - Aire Street	40
City and Holbeck	Vicar Lane	New Briggate - New Market Street	572
<b>Ward</b>	<b>Street Name</b>	<b>Location</b>	<b>Length</b>

City and Holbeck	Wade Lane	Merrion Street - Merrion Way	183
City and Holbeck	Wellington Street	City Square - Wellington Road	801
City and Holbeck	Westgate	Park Square East - Westgate Point	671
City and Holbeck	York Place	Queen Street – King Street	260
City and Holbeck	York Street	Church Lane – Marsh Lane	307
City and Holbeck	St Peters Street	York Street – Eastgate R/Bout	240
City and Holbeck	Eastgate	A61 Eastgate Roundabout	191
City and Holbeck	St Peters Street	Eastgate Roundabout – York Street	232
City and Holbeck	Dewsbury Road	Garnet Road – Tunstall Road	354
Garforth and Swillington	Main Street	A642 Wakefield Road - Church Lane	505
Halton	Austhorpe Road	Boundary 88\86 - A6120 Station Road	333
Halton	Station Road	Ring Rd Halton To Crossgates roundabout	457
Harehills	Harehills Lane	Foundry Approach - Roundhay Road	1129
Harehills	Harehills Road	Becketts Street - Roundhay Road	918
Headingley	North Lane	Cardigan Road - Otley Road	380
Headingley	Otley Road (City – Roundabout)	St Michaels Rd - Shaw Lane	509
Horsforth	Long Row	North Broadgate Lane - Old Ball Roundabout	650
Horsforth	Town Street	North Broadgate Lane - The Green	700
Moortown	Harrogate Road	Church Lane – Stainbeck Lane	339
Moortown	Harrogate Road	Street Lane - M&S Entrance	215
Morley South	Hope Street	Queen Street – Commercial Street	101
Morley South	Queen Street	Morley Bottoms - Fountain Street	734
Morley South	Albion Street	Queen Street - Marshall Street	141
Morley South	Commercial Street	Troy Road – Middleton Road	629
Morley South	Peel Street	Commercial Street - Queen Street	143
Otley and Wharfedale	Bondgate	Gay Lane – Kirkgate	273
Otley and Wharfedale	Boroughgate	Kirkgate - Garnett Street	343
Otley and Wharfedale	Crossgate	Boroughgate – Bondgate	186
Otley and Wharfedale	Kirkgate	Bondgate - Beech Hill	185
Otley and Wharfedale	Market Place	Kirkgate – Newmarket	56
Otley and Wharfedale	Walkergate	Charles Street - Manchester Square	108
Otley and Wharfedale	Westgate	Cross Pipes - Piper Lane	300
Otley and Wharfedale	Clapgate	Manor Square - Bridge Street	55
Otley and Wharfedale	Mercury Row	Kirkgate – Crossgate	105
Pudsey South	Church Lane	Lowtown - Lower Tofts Road	226
Pudsey South	Lidgett Hill	Lowtown - Cemetery Road	136
Pudsey South	Lowtown	The Lanes - Robin Lane	292
Rothwell	Commercial Street	Marsh Lane - Cul-De-Sac	174
Roundhay	Princes Avenue	Lidgett Park Rd - Street Lane	406
University	Beckett Street	Stanley Rd - Nippet Lane	1029
University	Chapelton Road	End Of dual carriageway – Harehills Lane	1541
University	Roundhay Road	Sheepscar Street - Princes Avenue	3015
Wetherby	Bank Street	High Street – Westgate	140
Wetherby	Cross Street	High Street – Market Place	61
Wetherby	High Street	Horsefair – Boston Road	296
Wetherby	Horsefair	Hallfield Lane – High Street	104
Wetherby	Victoria Street	Walton Rd – High St	220
Wetherby	The Shambles	Market Place To Cross Street	51
Wetherby	Gashouse Lane	High St – Greenfold Lane	139
<b>Total Length of Category 1</b>			<b>35005</b>

## Category 2 - Secondary Walking Route

Brief Description Medium usage routes through local areas feeding into primary routes, local shopping centres, large schools and industrial centres etc

Local Application – As described above.

Ward	Street Name	Location	Length
Aireborough	Otley Road	Oxford Road – Morton Ave	350
Aireborough	Oxford Road	Butts Lane – Netherfield Road	315
Aireborough	Town Gate	The Green – Queensway	73
Aireborough	Ivegate	Town Street - Well Hill	181
Aireborough	South View Road	Harper Lane – High Street	151
Aireborough	Butts Lane	Well Lane – Oxford Road	85
Aireborough	Well Hill	Town Street – Harper Lane	190
Armley	Stocks Hill	Wesley Road - Chapel Lane	91
Armley	Town Street	Wesley Road – Whingate	1141
Barwick and Kippax	Station Road	The Drive – Butt Hill	213
Barwick and Kippax	Leeds Road	From Gibson Lane - High Street	477
Barwick and Kippax	High Street	From Leeds Road - Park Avenue	429
Beeston	Middleton Grove	Dewsbury Road – Boundary	804
Beeston	Old Lane	Town Street - Dewsbury Road	1026
Beeston	Parkside Lane	Dewsbury Road - Lenton Drive	381
Beeston	Town Street	Old Lane – Crow Nest Lane	327
Beeston	Westland Road	Dewsbury Road To End	549
Bramley	Town Street	Bramley Town End roundabout - Broad Lane	1778
Bramley	Town Street	B6155 Richardshaw Lane – Half Mile Lane	689
Chapel Allerton	Stainbeck Lane	School Lane -Harrogate Rd	143
City and Holbeck	Bridge Street South	Lady lane – Inner Ring Road Bridge	200
City and Holbeck	Call Lane	Clothhall Street -Lower Briggate	184
City and Holbeck	Castle Street	Lisbon Street – End	110
City and Holbeck	Cloth Hall Street	Call Lane – Crown Street	70
City and Holbeck	Cropper Gate	Wellington Street - Skinner Street	65
City and Holbeck	Cross Belgrave Street	New Briggate - End	54
City and Holbeck	Crown Street	Call Lane – The Calls	145
City and Holbeck	Edward Street	Lady Lane – Templar Street	99
City and Holbeck	Grace Street	St Pauls Street - End	85
City and Holbeck	Great George Street	Park Street – To End	96
City and Holbeck	Harrison Street	Vicar Lane – New Briggate	120
City and Holbeck	High Court	Kirkgate - The Calls	121
City and Holbeck	Lady Lane	Vicar Lane – Eastgate	224
City and Holbeck	Lisbon Street	Wellington Street - End	150
City and Holbeck	Lower Basinghall Street	Boar Lane – Bond Street	180
City and Holbeck	Merrion Street	New Briggate - Vicar Lane	80
City and Holbeck	Mill Hill	Boar Lane – Bishopgate Street	71
City and Holbeck	Park Cross Street	The Headrow - St Pauls Street	180
City and Holbeck	Rossington Street	Cookridge St - Woodhouse Lane	137
City and Holbeck	Russell Street	Park Row – End	100
City and Holbeck	Skinner Street	Lisbon Street - Cropper Gate	68
City and Holbeck	Somers Street	St Pauls Street - End	108
Ward	Street Name	Location	Length

City and Holbeck	Sovereign Street	Neville Street - Swingate	275
City and Holbeck	Swinegate	Briggate – Bishopgate Street	264
City and Holbeck	Templar Lane	Lady Lane – Templar Street	94
City and Holbeck	Templar Place	Lady Lane – Templar Street	91
City and Holbeck	Templar Street	Vicar Lane – Bridge Street	210
City and Holbeck	The Calls	Call Lane – Crown Point Road	475
City and Holbeck	Union Street	St Peters Street - Harewood Street	188
City and Holbeck	Upper Basinghall Street	The Headrow – End	192
City and Holbeck	Wellington Street	Wellington Road Slip road – Wellington Bridge	75
City and Holbeck	Wellington Street	Wellington Bridge Street – West Street	100
City and Holbeck	Westgate	Westgate Point - Park Lane	66
City and Holbeck	Westgate	Westgate Slip - A65 Slip road	302
City and Holbeck	Wine Street	Infirmery Street – End	63
City and Holbeck	Duke Street	York Street – East Street	223
City and Holbeck	Eastgate	Slip To A64(M) – Roundabout	396
City and Holbeck	Dewsbury Road	Old Lane – Westland Road	694
City and Holbeck	Dewsbury Road	Garnet Road - Middleton Grove	747
City and Holbeck	Dewsbury Road	Tunstall Road - Hunslet Hall Road	556
Garforth and Swillington	Lidgett Lane	Church Lane - A63 Selby Road	800
Halton	Austhorpe Road	Austhorpe Lane – Boundary 88\86	492
Halton	Station Road	Ring Rd Halton - Crossgates roundabout	463
Headingley	Cardigan Road	Burley Road - North Lane	1645
Headingley	Headingley Lane	Hyde Park Road - St Michaels Road	1148
Headingley	St Michaels Road	Otley Road-Cardigan Road	363
Horsforth	Fink Hill	Ring Road - Hall Lane	366
Horsforth	New Road Side	Hawksworth Road – Broadway	1650
Horsforth	Low Lane	Troy Road - King George Road	230
Horsforth	Church Lane	Town Street - Church Road	113
Hunslet	Balm Road	Church St - Belle Isle Road	625
Hunslet	Belinda Street	Church Street – End	240
Hunslet	Church Street	Hillidge Road - Low Road	860
Hunslet	Middleton Road	Windmill Road - Belle Isle Road	520
Hunslet	The Oval	From Church Street - Gardens Court	257
Kirkstall	Abbey Walk	Abbey Road – Morris Lane	199
Kirkstall	Bridge Road	Leeds & Bradford Rd - Commercial Rd	336
Kirkstall	Commercial Road	Kirkstall Road – Bridge Road	587
Kirkstall	Kirkstall Lane	Commercial Road – Kirkstall Hill	224
Kirkstall	Kirkstall Lane	Estcourt Terrace - Cardigan Road	310
Kirkstall	Kirkstall Road	Willow Road – Commercial Road	1843
Kirkstall	St Michaels Lane	St Anns Drive - Cardigan Road	493
Middleton	Middleton Park Avenue	Middleton Park Circus - Thorpe Lane	1008
Middleton	Middleton Park Circus	Middleton Park Rd - Middleton Park Rd	431
Middleton	Longthorpe Lane	From Motorway Bridge – A61 Leeds Rd	815
Moortown	Harrogate Road	Harehills Lane - Church Lane	324
Moortown	Harrogate Road	Stainbeck Lane - Valley Gardens	509
Moortown	Harrogate Road	Nunroyd Avenue - Street Lane	263
Moortown	Harrogate Road	M&S Entrance - A61	230
Morley North	Elland Road	Victoria Road – Old Road	1277
Morley North	Bruntcliffe Road	Fountain Street – Howden Clough	1013
Morley North	Fountain Street	Bruntcliffe Road - Queen Street	1617
<b>Ward</b>	<b>Street Name</b>	<b>Location</b>	<b>Length</b>
Morley North	Town Street	Branch End – Finkle Lane	221

Morley North	Church Street	Town Street – Scott Green	298
Morley North	Bruntcliffe Lane	Wakefield Rd A650 - Brunswick Street	1110
Morley North	Chapel Hill	Queen Street - Church Street	182
Morley North	Church Street	Victoria Road - Chapel Hill	285
Morley North	Victoria Road	Brunswick Street - Elland Road	1299
Morley North	Branch Road	Gelderd Road - Town Street	334
Otley and Wharfedale	Bridge Street	Clapgate - Billiams Hill	415
Otley and Wharfedale	Gay Lane	Leeds Road - Charles Street	240
Otley and Wharfedale	North Parade	Court House Street - Riverdale Road	205
Otley and Wharfedale	Cattle Market Street	Bridge Street - North Parade	116
Pudsey North	Town Gate	Woodhall Lane - Carr Road	269
Pudsey North	Rodley Lane	Bagley Lane - Ring Road roundabout	382
Pudsey North	New Street	Frances Street - Town Street	367
Pudsey North	Town Street	New Street – The Green	498
Pudsey South	Chapeltown	Church Lane - Uppermoor	283
Pudsey South	Church Lane	Lower Tofts Road - Chapletown	322
Pudsey South	Robin Lane	Lowtown – Crawshaw Avenue	308
Pudsey South	Lowtown	Houghside Road - The Lanes	315
Pudsey South	Market Place	Church Lane - End	167
Richmond Hill	Cross Green Approach	Pontefract Lane - Knowsthorpe Lane	626
Richmond Hill	Cross Green Lane	Knowsthorpe Crescent - East Parade	475
Richmond Hill	Pontefract Lane	Crossgreen Lane - Tip Gates	1400
Rothwell	Commercial Street	Gillett Lane - Marsh Street	120
Rothwell	Commercial Street	Butcher Lane – Cul De Sac	19
Rothwell	Meynell Avenue	Commercial Street - Meynell Parade	130
Rothwell	Butcher Lane	Marsh Street - Church Street	300
Rothwell	Aberford Road	Calverley Road - Station Lane	890
Seacroft	North Parkway	Lamp column 81 - Old York Rd.	382
Seacroft	South Parkway	Lamp column 43 - Old York Rd.	366
University	Clarendon Road	Woodhouse Lane - Moorland Rd	369
University	Meanwood Road	Grove Lane - Bentley Lane	241
University	North Street	New York Road - Claypit Lane	746
University	Regent Street	Sheepscar Street South - A64 Flyover	464
Weetwood	Green Road	Stonegate Road - Church Lane	248
Weetwood	St Chads Drive	Batcliffe Drive - Otley Rd A 660	351
Weetwood	Stonegate Road	Monkbridge Road – Stonegate Farm Close	226
Wetherby	High Street	Church Street - Admiral Hawke Pub	668
Wetherby	Hallfield Lane	York Road – Car Park End	893
<b>Total Length of Category 2</b>			<b>54832</b>

### **Category 3 – Link Footways**

Brief Description - Linking local access footways through urban areas and busy rural footways.

### **Category 4 - Local Access Footway**

Brief Description - Footways associated with low usage, short estate roads to the main routes and culs de sac

## APPENDIX C CYCLEWAY HIERARCHY

Category	Description
A	Cycle lane forming part of the carriageway, commonly 1.5 metre strip adjacent to the near side kerb. Cycle gaps at road closure point (exemptions for cycle access)
B	Cycle track, a route for cyclists not contiguous with the public footway or carriageway. Shared cycle/pedestrian paths, either segregated by a white line or other physical segregation, or un-segregated
C	Cycle trails, leisure routes through open spaces. These are not necessarily the responsibility of the highway authority. Trails include: <ul style="list-style-type: none"> <li>• 7km Trans Pennine Trail (Methley to City Centre)</li> <li>• 2.5km Harland Way in Wetherby</li> <li>• 3km Cross Green to Colton Trail</li> <li>• 0.7km Woodhouse Moor</li> <li>• 5.5km Garforth to Allerton Bywater</li> <li>• 2.5km Leeds &amp; Liverpool Canal (City Centre to Armley Mills)</li> <li>• 11km Leeds Link (linking Beeston, Middleton and Rothwell)</li> </ul>

It is proposed that cycle facilities meeting the above hierarchy criteria be identified and input to Highway 1 during 2004/05. This will enable separate assessment of maintenance needs on these routes. Meanwhile facilities within the adopted highway network will be maintained in accordance with the criteria for the associated carriageway or footway.

Cycle trails have been identified as above. These are legally maintainable by the current land-owners until such time that a cycle track order is made. A maintenance agreement for the parts of the Trans Pennine Trail which run concurrent with canal tow paths was signed with British Waterways Board in 2002.



**APPENDIX D**  
**SUMMARY OF NETWORK INVENTORY DATA**

Ward Inventory Summary (Excluding Principal Roads)

Data as held on: 15 August 2003

Ward	Carriageway		Footway		Stone Flags Area (m sq) *
	Length (km)	Area (m sq)	Length (km)	Area (m sq)	
Aireborough	87	476415	119	205926	1553
Armley	66	434243	126	232139	11498
Barwick and Kippax	129	739458	140	234636	946
Beeston	45	300414	85	138799	17310
Bramley	61	415345	127	230690	4937
Burmantofts	46	306531	81	160110	5023
Chapel Allerton	62	401503	111	197371	23017
City and Holbeck	103	813237	198	411861	30807
Cookridge	72	417695	121	224683	136
Garforth and Swillington	86	504581	133	226718	370
Halton	77	461001	128	221379	2092
Harehills	55	373829	100	175771	17293
Headingley	48	318194	85	140294	49668
Horsforth	66	408180	110	198519	26
Hunslet	57	392262	115	227606	213
Kirkstall	63	436395	123	229801	27380
Middleton	71	420558	126	249009	0
Moortown	58	356907	98	195006	14345
Morley North	77	493175	139	666844	3643
Morley South	78	495042	134	225683	6839
North	93	871290	131	243635	0
Otley and Wharfedale	93	519773	120	209469	2166
Pudsey North	62	389263	119	210831	1118
Pudsey South	62	394909	119	207934	1715
Richmond Hill	70	495102	141	276879	13070
Rothwell	71	719346	110	200917	1644
Roundhay	76	487587	126	240669	16130
Seacroft	53	344417	106	306306	0
University	63	501321	116	217996	22651
Weetwood	53	336000	101	183306	6433
Wetherby	160	866506	157	261235	375
Whinmoor	49	299685	118	255689	0
Wortley	70	463725	126	224640	454
Totals:	2380	15653888	3989	7832351	282852

\* Area Includes Stone Flagged Footways on Principal Roads and Trunk Roads



## **APPENDIX E GUIDANCE FOR HIGHWAY INSPECTORS**

### **SAFETY INSPECTIONS**

Safety inspections to identify defects which are perceived to be a risk to the public should be carried out on the following items:

- Road surface;
- Footway surface, including the kerb.

The result of the inspection must be recorded for each street inspected, including reports of nil defects.

All defects which are perceived to be a risk to the public must be recorded and the record forwarded to repair teams for repairs to be carried out.

Defects which present an immediate and high risk must be input onto Service 1 for a 24 hour category 1 repair.

The record must give sufficient information on the location and nature of defect to:

- Enable relocation of the defect by a repair team;
- Give the repair team sufficient information on the materials and size of the repair to enable for the work to be carried out without further prior inspection;

Other defects shall be forwarded to be programmed as category 2 work, for repair within the following 28 days.

It may be that streets with multiple defects already have planned work programmed. This will impact on the repairs carried out in response to the inspection but must not influence judgement on the issue of the defect(s) for category 1 or category 2 repair.

All records must be stored in a recoverable manner so that they can be used as evidence in any subsequent accident claim.

Defects will normally be either trips or potholes in the footway or potholes in the road. The degree of risk will depend on:

- The depth and surface area / extent of the defect;
- The level of usage of the road or footway;
- The location of the defect relative to concentrations of vulnerable users, eg schools, hospitals, care centre etc.
- The location of the defect relative to the position of users eg junctions, road crossing points, central to the footway or in a wheel track or cycle lane.

The weight given to these parameters in determining whether an individual defect should be treated as category 1 will be a matter of site judgement but will also have regard to the outcome of legal proceedings.

In this context a pothole depth of 40mm in the carriageway or 20mm in the footway is considered to require particularly careful consideration.

## LEEDS SURVEY – GENERAL ASSESSMENT

The general assessment question shall take a view on the overall condition of the street section against the following categories:

- OK - i.e. condition satisfactory, no work required
- <£1,000 of work required
- between £1,000 and £5,000 of work required
- over £5,000 of work required

Where the street would benefit from carriageway surface dressing or footway slurry seal as a preventative maintenance treatment, the cost of this work is not to be included in the estimate. However the cost of any pre-patching should be considered.

Where safety defects have been identified and this work will bring the street into a condition where no further work is required the general assessment will be <£1,000 of work required.

Where the a part or the whole of the street section requires treatment, the following guidance should be used:

In general terms any street longer than 60 m needing whole works to both footways and the carriageway will exceed the £5000 band. This drops to 30 metres for full kerb replacement.

Where work is needed only in part of the street an estimated can be made by bearing in mind that for £1000 the following work can be carried out:

carriageway

- 120 m<sup>2</sup> overlay with tie ins (20 m of 6m wide carriageway)
- 100 m<sup>2</sup> overlay will milled channel line & tie ins (16m of a 6m wide carriageway)
- 80 m<sup>2</sup> resurface

Footways bituminous

- 150 m<sup>2</sup> over laid with some minor kerb alignment (80m of 1.8m footway)

Footways Flagged

- 40 m<sup>2</sup> stone flags relayed (≈20m of 1.8m footway)

## **APPENDIX F**

### **SKID RESISTANCE RISK MANAGEMENT POLICY**

Scrim surveys are carried out to measure the skid resistance of the carriageway surface. The programme covers all principal roads as these have the highest traffic flows and are therefore most prone to loss of skid resistance.

The actions taken once the data has been collected is critical and needs to take account of:

- Any safety risk to highway users;
- The financial risk to the Council of taking appropriate action or no action.

Setting appropriate investigatory levels is crucial in providing appropriate skid resistance without triggering premature or expensive treatment. The higher the investigatory level, the higher the skid resistance deemed to be appropriate for the site. The only published investigatory levels for skid resistance are for different trunk road site categories. These are based on the principle that a greater skidding resistance should be maintained where road users are likely to need to stop or change direction. It could be argued that average vehicle speeds on Leeds's principal road network merit a lower investigatory level. However, in the absence of any national standard for urban principal roads the trunk road standard is used and this is taken into account in the investigation of results.

Scrim results are input to the NRMCS, where the percentage of the network with a skid resistance below the investigatory level is taken as a measure of the condition of the network and used in trend analysis.

Scrim results are also used as part of the general condition assessment for the prioritisation of major resurfacing works, where the priority of the scheme is increased if the scrim values are low.

However a site by site risk assessment is required following each survey to determine whether to do nothing, carry out a surface dressing, anti skid or other surface treatment or potentially whether to put up warning signs.

All surveys are carried out between 1<sup>st</sup> May and 30<sup>th</sup> September when the lowest skid resistance is generally observed. The target is to analyse results within three months of completing the surveys. Currently there is a backlog of analysis work. However resources and training are being directed to resolving this issue such that all results will be delivered on target with effect from May 2003.

Because there are expected variations between individual measurements made between May and September, maintenance decisions should not normally be made on the basis of a single survey unless there is clearly a major risk.

To minimise any safety risk to highway users, all sites with a skid resistance which is more than 20% below the investigatory level should be prioritised for inclusion in a programme of work. This may involve a specialist anti skid treatment, surface dressing, other surface treatment or resurfacing as appropriate to the overall condition and the nature of the site.

The target is to include all such sites in the following year's work programme. However if resource restraints preclude this, sites should be investigated and prioritised taking into account the criteria described in the Design Manual for Roads and Bridges, volume 7, section 3, including the following:

- Skidding accident records;
- The difference between the skid resistance and the investigatory level;
- Any previous scrim survey results;
- The weather conditions when the site was surveyed;
- A site visit to assess likely skidding problems.

Sites only marginally below investigatory level should be checked against sites and lengths for concern for wet skid accidents and put forward for further investigation and prioritisation where such accidents are known to have occurred. The site should in any event be programmed for a further scrim survey in the following year.

The target is to work towards an annual survey of all principal roads by 2004.

Generally where skidding resistance is determined as being considerable below investigatory level there are clear indications that improving the condition of the surfacing is likely to significantly reduce the risk of accidents occurring. Remedial treatment should be prioritised as a relatively urgent task. Where this cannot be achieved the potential to erect slippery road surface warning signs should be considered.

**APPENDIX H  
SURFACE DRESSING AND FOOTWAY SLURRY SEAL POLICIES**

**CARRIAGEWAY SURFACE DRESSING POLICY**

In January 1992, concern surrounding the use of the surface dressing process, especially by Members and the public, resulted in a review of the policy. In order to address the concerns surrounding the implementation of the above policy, the benefits of surface dressing and the disadvantages were assessed as follows:

Advantages	Disadvantages
<ul style="list-style-type: none"> <li>• Surface dressing increases skid resistance of the road surface, helping to reduce skidding accidents;</li> <li>• It seals the surface of the road against water ingress. It is therefore a very effective routine maintenance treatment which prevents structural deterioration of the road;</li> <li>• At an average £1.10/sq.m it is very cost effective allowing in excess of 50km of a total 2600km network length to be treated annually;</li> <li>• To do the same length in any other treatment would cost at least three times as much;</li> <li>• It can eliminate the need for more expensive treatments for many decades;</li> <li>• Contracts include for design and “build” with a two year guarantee against failure (including accident claims) so the financial risk to the Council is low;</li> <li>• In terms of minimum use of new quarry material it is an environmentally friendly treatment;</li> <li>• The treatment is quick, causing minimum traffic disruption during the works.</li> </ul>	<ul style="list-style-type: none"> <li>• Surface dressing has a poor public image;</li> <li>• There can be an increase in traffic noise following treatment;</li> <li>• Loose chippings are disturbed by traffic and can cause damage to vehicles;</li> <li>• Chippings displaced onto the footway can cause accidents;</li> <li>• After care removal of excess chippings can be required for several months after the treatment;</li> <li>• The treatment takes account of chipping embedment from live traffic. Where parked vehicles minimise or eliminate this action, loose chipping problems can continue for long periods;</li> <li>• Failures can occur, especially at high stress points where vehicles are turning or slowing down;</li> <li>• Exposed bitumen in failed areas can be transferred into adjacent properties, especially where children play in the street;</li> <li>• Handling accident liability claims following treatment is expensive in staff time.</li> </ul>

**Selection of Sites for Surface Dressing**

The following policy was agreed by Lead Members in 1992. As well as taking account of the standard engineering condition criteria (which will for example preclude the use of surface dressing on areas subject to high vehicle turning and deceleration stresses), site selection criteria should also recognise the following:

Surface dressing is an acceptable treatment for:	Surface dressing should not be used:
<ul style="list-style-type: none"> <li>• Rural roads</li> <li>• Residential streets (including Principal and distributor roads) where verges separate the carriageway from the footway</li> <li>• Following carriageway retread.</li> </ul>	<ul style="list-style-type: none"> <li>• Where residential properties open onto the highway with no front gardens;</li> <li>• In culs de sac (low embedment);</li> <li>• Where there is a high level of on street parking (no embedment);</li> <li>• In heavily pedestrianised areas;</li> <li>• Where streets are regularly used by local children as play areas.</li> </ul>

Surface dressing should only be used following careful consideration of the engineering and social factors relating to the site (including traffic speed / road noise) for:
<ul style="list-style-type: none"> <li>• Industrial / commercial areas</li> <li>• Streets with no properties, crossing the gable ends of parallel residential blocks;</li> <li>• Residential areas with front gardens but no verge;</li> </ul>

### **Policy Impact**

The policy will preclude the use of surface dressing on many of the estate roads previously considered suitable for treatment. This is an estimated 20% of the 2001 programme. If alternative treatments are on average three times the cost of surface dressing, the financial impact of the change in policy is estimated at £130,000.

The use of more expensive treatments will have an impact on the length of network maintained each year and consequently on ability to deliver a year on year improvement in the condition of the network. However this impact can be reduced by developing the use of alternative cost effective treatments on sites unsuitable for surface dressing and potentially identifying a larger number of suitable sites to substitute for the those which are now considered to be unsuitable.

### **FOOTWAY SLURRY SEALING POLICY**

Slurry surfacing is a cold-applied liquid form of tarmac. It incorporates a bitumen emulsion, crushed stone to produce a thin surface layer which is applied to deteriorated tarmac footways. Slurry surfacing is typically laid to a nominal thickness of 6mm, but can be laid up to 20mm and can be used to fill in shallow depressions. Slurry seal will not add any strength to a footpath, but is an excellent preventative maintenance process that will seal a surface against the ingress of water, prevent further disintegration of the existing surface and add a texture to a footway that has become smooth. The life of a sound existing footpath surface can be extended by many years if slurry sealing takes place before serious surface deterioration sets in.

Slurry Seal should be considered as a suitable treatment where the footway is structurally sound but the surface has oxidised (dried out and gone brittle) or is scarred by patch repairs and undertakers reinstatements. Surface depressions ideally should not exceed 10mm.

## **APPENDIX I**

### **PROVISION OF PARKING TO ADDRESS HIGH ON-STREET PARKING DEMAND IN HOUSING AREAS**

During 2001 officers in Housing and Highways investigated issues relating to parking, particularly on housing estates. The objective was to identify locations which would be improved by parking provision and to consider how funding could be sought and structured.

#### **Pilot Project**

Parking provision on Broadway, Horsforth is being constructed in 2003 as the pilot for progressing such schemes. It has been agreed that a lead officer be established in each Department to progress further initiatives on an annual basis.

#### **Prioritising Scheme Proposals**

Various factors will assist in selecting and prioritising locations. These include:

- Car crime hotspots;
- Improvements will contribute to community safety;
- Areas of high demand for garage lettings;
- Corridors / approaches to housing areas where environmental improvements will improve house letting viability;
- Areas which receive regular requests to provide parking improvements;
- Areas with potential to provide lay-bys to replace grass verges, especially on narrow streets;
- Areas with history of complaints on verge damage / parking;
- Areas with potential to park vehicles within property boundaries;
- Streets which are a high highway maintenance priority.

#### **Terms of Reference for contact officers**

1. Housing and Highways will each appoint a lead officer;
2. The lead officers shall agree priorities for future schemes in accordance with the above criteria;
3. A five year rolling programme of works shall be agreed and reviewed on an annual basis, preferably prior to the commencement of the financial year;
4. Highways will provide technical advice and design services and will manage the implementation of works on the highway;
5. Housing shall take the lead role with respect to any CIT and residents consultation required as part of the scheme and shall manage the implementation of any works on Housing land;
6. Highways and Housing shall contribute to the scheme cost for aspects of the works which would normally be funded from within their own budget provisions and shall jointly seek contributions from other sources;
7. The lead officers shall involve other departments where the scheme proposals involve other Council land which is neither Highway or Housing;
8. Each officer will be responsible for seeking any necessary approvals for the commitment of expenditure within their own Departments.



## **APPENDIX J INSTALLATION OF BOLLARDS IN THE HIGHWAY**

Installation of bollards on the basis of road safety are generally dealt with through traffic design schemes. However several requests are made of the Highway Maintenance service, particularly where inconsiderate behaviour by drivers parking their vehicles on verges and footways is potentially dangerous or detracting from the appearance of the street by causing damage, particularly to verges.

### **General strategy relating to installation of bollards**

Under most circumstances the policy is not in favour of installing bollards, particularly at the road edge or on verges, because:

- They add to street clutter;
- They are an obstruction to the visually impaired, depending on their location;
- They impede grass cutting operations;
- They are an ongoing maintenance liability;
- Money spent on such works means there is less for maintaining the highway;
- Being of low height and non reflective, bollards are a possible danger should someone drive into one;
- For this reason, when we replace lighting columns (which are generally easier to see, especially at night!) we generally move them from the front to the back line. Installing bollards to the front line is inconsistent with our street lighting policy;
- In the case of vehicle impact, a claim could be submitted against the Council;

Requests will however be dealt with on their merits, using the following guidelines.

#### **1. Bollards requested To deter ram-raiders**

This is not a highways issue and the request will be declined. This has the support of City Centre Management, Planning and disabled groups.

#### **2. Bollards requested to address a traffic safety issue**

In certain cases the safety issues may outweigh the concerns identified above, for example, where drivers are driving where they shouldn't and there is a resulting need to protect pedestrians. Such cases will be referred to the Traffic Section.

#### **3. Bollards requested to prevent verge damage caused by unnecessary verge over-riding and parking**

If specific individuals are habitually parking on the verge and alternative parking arrangement exist (eg they could park wholly within the carriageway without causing an obstruction or they have a parking space within their own property) this should be dealt with as an enforcement issue. Where this occurs within a Council housing estate liaison should take place with Housing. Such requests for bollards often arise from neighbourly disputes where one resident uses the dropped kerbs of another resident to gain access to the verge. Installation of dropped kerbs and vehicle crossings is carried out at considerable expense to the residents and abuse of the facility by neighbours can be a cause for complaint. It is none the less an

enforcement issue and not something which should be resolved by the installation of bollards.

#### **4. Unavoidable Verge Damage**

This can result in requests for verge hardening and lay-bys. Sometimes there are requests for bollards (generally neighbourly disputes) but clearly in such circumstances bollards would be a nuisance. If the damage is unavoidable due to lack of parking facilities and/or restricted width is resulting in over-run including by refuse vehicles, then the concerns of residents are understandable. These locations need prioritising and addressing from the limited funding that we propose to make available for such works (the joint Housing Initiative).

#### **5. Bollards requested to resolve a general environmental nuisance**

If the damage is by “visitors” eg to local shops and facilities (enforcement is difficult) and is avoidable (in which case it would not be considered for verge hardening) then it may be necessary to consider installation of bollards to resolve the issue.

### **Design Principles**

Where bollards are considered necessary, they will normally be of a standard concrete post design.

Birds mouth fencing is a safer and more attractive alternative to bollards for protecting long lengths of verge. It is however costly to install and is easily damaged/removed by people insistent on getting to the other side. Where it has been installed the cost to Leisure Services of the verge maintenance will increase. It should only be considered to address the situation in paragraph 5 in environmentally sensitive locations (eg villages).

Sometimes mushroom bollards are requested which may be appropriate in situations referred to in paragraphs 2 and 5.

Many people go for self help to protect their verge, placing large rocks on the highway. If these are brought to the attention of the Council it may be necessary to take action to remove the obstruction as they may be a danger to road users.

Finally, it should be noted that a congestion of statutory undertakes apparatus in the highway can prevent the installation of bollards in some locations.

**APPENDIX K**  
**TECHNICAL GLOSSARY AND ABBREVIATIONS**

BVPI	Best Value Performance Indicator
BVPP	Best Value Performance Plan
CIPFA	Chartered Institute of Public Finance and Accountancy
CVI	Coarse Visual Inspection
DfT	Department for Transport
DTLR	Department for Transport Local government Regions (Now replaced by the DfT)
DVI	Detailed Visual Inspection
GIS	Geographical Information System
IMS	Identified Maintenance Scheme
LTP	Local Transport Plan
NRMCS	National Road Maintenance Condition Survey
NRSWA	New Roads and Street Works Act 1991
NSG	National Street Gazetteer
OS	Ordnance Survey
PROW	Public Rights Of Way
SCRIM	Sideways Coefficient Routine Inspection Machine (measures skid resistance of the road surface)
SMA	Stone Mastic Asphalt
SSA	Standard Spending Assessment
TRACS	TRAffic speed Condition Survey
TSG	Transport Supplementary Grant
UKPMS	UK Pavement Management System

