



PARAGON HIGHWAYS



**New Hey Road,
Huddersfield**

Highway Statement

September 2018

Project 1518

Paragon Highways

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Quality Management

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1 INTRODUCTION

- 1.1.1 Paragon Highways have been appointed to prepare this Highway Statement relating to the proposed residential development at the former Gees Garage site off New Hey Road, Outlane, Huddersfield. Appendix A shows the site location in relation to the regional and local highway network.
- 1.1.2 The proposals are to demolish the existing garage/workshop and redevelop the site with 22 residential dwellings along with the construction of a new junction onto New Hey Road, an internal access road serving the development and the provision of car parking in accordance with the Council's Parking Standards.
- 1.1.3 This Highway Statement considers such matters as access, sustainability, car parking and servicing and presents the proposals in relation to current guidance and data. The traffic impact associated with the current development proposals is also presented.

2 EXISTING CONDITIONS

2.1 Site Description

2.1.1 The site is located within the settlement of Outlane approximately 5.7Km north west of Huddersfield Town Centre.

2.1.2 The overall garage site consists of garage/workshop units which have not been used for a number of years. The buildings are situated on the southern side of the site. To the immediate north of the site is Mulehouse Lane, which is predominantly an unsurfaced track, which runs in a north to south direction, beyond are agricultural fields and a paddocks. To the east are further paddocks with Swan Lane beyond. To the south of the site is New Hey Road which runs in a north eastern to westerly direction across the site frontage, and where vehicular access is currently provided in the form of 4 separate accesses that contain kerbed splayed access points and carriageway edge/ junction markings. Opposite are a number of residential properties served off Ney Hey Road with the M62 Motorway beyond. To the west are residential properties served off both Mulehouse Lane and New Hey Road.



Photograph 1 – Site Frontage to the A640 New Hey Road

2.2 Local Highway Network

- 2.2.1 The southern boundary of the site fronts onto the A640 New Hey Road which runs in a north easterly to westerly direction. New Hey Road is part of the local strategic highway network and under the A640 designation forms an arterial route into Huddersfield from Rochdale to the west.
- 2.2.2 Located opposite the site approximately 40m east of the proposed site entrance is the junction of New Hey Road which has a simple give way priority junction onto the A640 (which is also named New Hey Road). Approximately 84m further to the north east is the junction of Swan Lane also having a simple give way priority junction onto the A640 New Hey Road. Approximately 460m beyond is Junction 23 of the M62 Motorway, with New Hey Road becoming a dual carriageway on the approach to the junction. Beyond the M62 Motorway the A640 New Hey Road, continues directly into Huddersfield Town Centre approximately 5Km to the south east serving a considerable number of both residential and commercial/retail properties, as well as giving access to a substantial number of residential side roads.
- 2.2.3 Approximately 145m to the west of the proposed site entrance is the junction of Mulehouse Lane which has simple give way priority junction onto the A640 New Hey Road. As the A640 New Hey Road continues in a generally westerly direction towards Rochdale, it gives direct access to a substantial number of residential side roads.



Photograph 2 – Westwards along the A640 New Hey Road



Photograph 3 – Eastwards along the A640 New Hey Road

2.2.4 The A640 New Hey Road in proximity of the site is a two way single carriageway road with a hatched central reserve and footways to both flanks. The overall carriageway width is approximately 7.5m with a southern footway in excess of 3.0m in width and northern footway of approximately 2.2m. On inspection in the immediate vicinity of the site access the carriageway and footways are in a good condition and considered to be suitable for their day to day use. The permitted speed limit along this section of New Hey Road is 30mph, which increases to 40mph immediate north of the New Hey Road side road junction to the northeast of the site. Street lighting to main road standards is also provided along the road.

2.2.5 The site is located within reach of the bus services located immediately opposite and to the eastern boundary of the site along the A640 New Hey Road. Details of the bus services available from the local fare stages are shown in section 2.3 below.

2.3 Transport Sustainability

2.3.1 The site is in a sustainable location being within a short walking distance of bus services to the south east of the site.

2.3.2 The revised National Planning Policy Framework was published on 24 July 2018 and sets out the government's planning policies for England and how these are expected to be applied.

2.3.3 This revised Framework replaces the previous National Planning Policy Framework published in March 2012. In assessing sites that may be allocated for development in plans, or specific applications for development, it should be ensured that:

- Appropriate opportunities to promote sustainable transport modes can be – or have been – taken up, given the type of development and its location;
- Safe and suitable access to the site can be achieved for all users; and
- Any significant impacts from the development on the transport network (in terms of capacity and congestion), or on highway safety, can be cost effectively mitigated to an acceptable degree.

2.3.4 Development should only be prevented or refused on highways grounds if there would be an unacceptable impact on highway safety, or the residual cumulative impacts on the road network would be severe.

Within this context, applications for development should:

- Give priority first to pedestrian and cycle movements, both within the scheme and with neighbouring areas; and second – so far as possible – to facilitating access to high quality public transport, with layouts that maximise the catchment area for bus or other public transport services, and appropriate facilities that encourage public transport use;
- Address the needs of people with disabilities and reduced mobility in relation to all modes of transport;

- Create places that are safe, secure and attractive – which minimise the scope for conflicts between pedestrians, cyclists and vehicles, avoid unnecessary street clutter, and respond to local character and design standards;
- Allow for the efficient delivery of goods, and access by service and emergency vehicles; and
- Be designed to enable charging of plug-in and other ultra-low emission vehicles in safe, accessible and convenient locations.

2.3.5 The catchment areas for the preferred maximum walking distance of 2km are shown on the plan at Appendix B. The site is well placed for residents to walk to work and utilise transport, retail, amenity and service opportunities in Outlane, Salendine Nook and Sowood. Within walking distance there is a primary school, and health care facilities including GP, dentists, and a pharmacy.

2.3.6 With regards to cycling, PPG 13: Transport stated that “Cycling also has the potential to substitute for short car trips, particularly those under 5 km and to form part of a longer journey by public transport”. The 5km cycle catchment area from the site would include the additional settlements of Ainley Top, Birkby, Edgerton, Lindley, Birchenclyffe, Oakes, Marsh, Paddock, Golcar, Hill Top and Longwood.

2.3.7 The nearest bus stops to the site are located directly opposite and to the eastern boundary along Ney Hey Road. The table below identifies the bus services that use the above stops.

Service No	From – To	Frequency Mon – Sat	Late evenings and Sundays
537	Huddersfield – Marsh – Outlane – Stainland – Elland – Halifax	60mins	-
900	Huddersfield – Hebden bridge	2 Am	2 Pm
901	Huddersfield – Stainland – Barkisland – Riponden – Cragg Vale – Mytholmroyd – Hebden Bridge	60mins	-

Table 1 – Bus Services

2.3.8 As can be identified from the above table, there are 3 bus services that operate from the nearest stops. These provide around 3 buses per hour throughout the peak periods and regular services during the day to the local towns and settlements with 2 services per hour to Huddersfield Town Centre. The bus services are considered to be suitable to provide an alternative to the private car in line with current Government guidelines.

2.3.9 The site is considered to be in a sustainable location given its proximity to local bus stops which provide a suitable connection to Huddersfield that has a multitude of amenities, facilities and transport opportunities, and walking distance to local amenities and facilities within Outlane and Salendine Nook. Therefore, the site conforms to current Government directives for ensuring developments are located in a sustainable locations.

3 THE DEVELOPMENT PROPOSALS

3.1 Proposed Development

- 3.1.1 The proposals are to demolish the existing garage/workshop and redevelop the site to provide 22 new dwellings along with the construction of a new junction onto New Hey Road, with a new adoptable internal access road and turning head and the provision of car parking in accordance with the Council's Parking Standards.

3.2 Vehicular Access

- 3.2.1 The overall proposed redevelopment of the site will be served via a new radii junction onto the A640 New Hey Road. The new junction will be positioned central to the southern boundary such that to maximise the available sightlines in both directions and the existing access points will be permanently closed and the footway reinstated.
- 3.2.2 The new vehicular access will take the form of a typical radii junction with a carriageway of 5.5m in width. The internal road would then take the form of a shared surface street with the provision of two hard margins on both sides. Approximately 5.0m into the site a private drive to the west of the new internal road served via a vehicular dropped crossing is to be provided.
- 3.2.3 Based on the permitted speed limit of 30mph, minimum recommended visibility splays of 2.4m x 43m are required. Which due to the extensive site frontage and centrally located new junction can easily be provided and exceeded in both directions.

3.3 Parking Provision

- 3.3.1 A minimum of 2 car parking spaces per dwelling is to be provided in line with the Council's Parking standards. Visitor parking is also to be provided off the shared surface in line with the Council's parking requirements.

3.4 Pedestrian and Cycle Provision

3.4.1 Pedestrian access to the development will be via the proposed new junction onto the A640 New Hey Road via the proposed shared surface.

3.4.2 Secure cycle storage facilities can be provided within the site if required by the LPA.

3.5 Servicing

3.5.1 Servicing of the proposed development will be internally as the proposals include the provision of a turning facility capable of accommodating a Kirklees Council refuse vehicle. This will allow such vehicles to access and leave the site in a forward gear.

4 TRAFFIC IMPACT

4.1.1 The proposals are to demolish the existing garage/workshop and redevelop the site with 22 residential dwellings along with the construction of a new junction onto New Hey Road, with a new adoptable internal access road and turning head and the provision of car parking in accordance with the Council’s Parking Standards.

4.1.2 Table 2 provides the typical peak hour trip rates (morning peak 0800-0900 hours and evening peak 1700-1800 hours) and likely traffic generation of the proposed development of 22 additional dwellings.

	Morning Peak			Evening Peak		
	ARRIVE	DEPART	TOTAL	ARRIVE	DEPART	TOTAL
Trip Rate	0.151	0.416	0.567	0.390	0.225	0.615
Generated Trips	3	9	12	9	5	14

Table 2 - Predicted Development Trip Rates & Generation

4.1.3 As can be seen from the above table, the proposed development is anticipated to generate between 12 and 14 two way trips during the peak hours. However, given the sites excellent links to public transport, with bus stops being located immediately opposite and to the eastern boundary, it is considered that the level of traffic generated could be lower than that anticipated from the TRICS database.

4.1.4 The development proposes a suitable access arrangement off New Hey Road in terms of junction geometry and visibility splays provision.

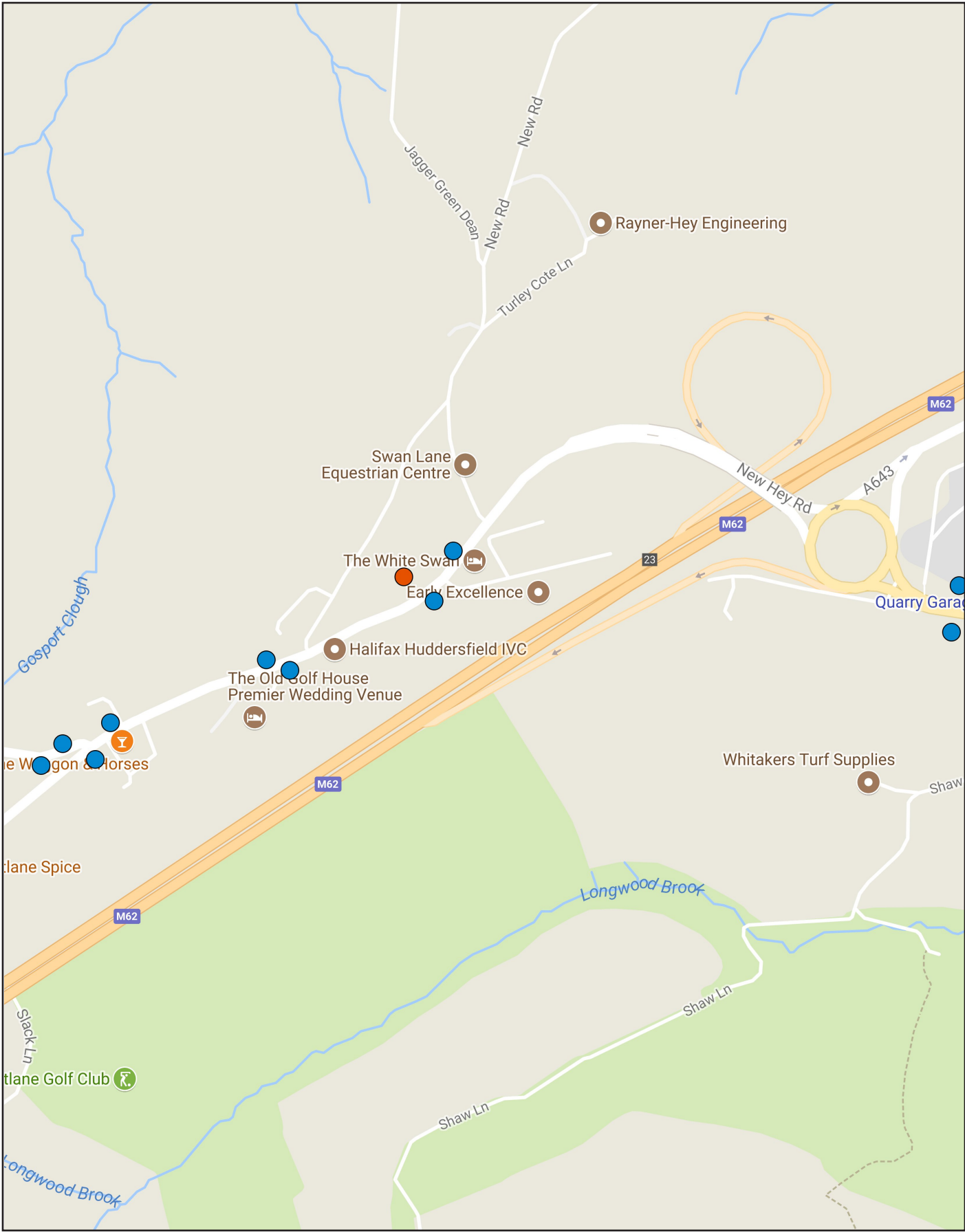
4.1.5 It is considered that the level of traffic generated by the proposals can easily be accommodated and will have no material impact on the operation of the local highway. The level of traffic will not significantly add to any congestion at the peak times on the local network, as the level of traffic generated by the proposed development would not be discernible from the daily fluctuations in flows that could be expected on the highway network.

5 CONCLUSIONS

- 5.1.1 This Highway Statement presents the existing traffic characteristics and infrastructure in the surrounding area of the proposed development. The development proposals are then presented. The traffic impact of the proposed development is also assessed, and compares the traffic generations, highway safety and access proposals with the existing situation.
- 5.1.2 The site is considered to be in a sustainable location given its proximity to local bus stops which provide a suitable connection to Huddersfield that has a multitude of amenities, facilities and transport opportunities, and walking distance to local amenities and facilities within Outlane and Salendine Nook. Therefore, the site conforms to current Government directives for ensuring developments are located in a sustainable locations.
- 5.1.3 It is considered that the proposed development would not result in excessive vehicle trips that would be discernible from the daily fluctuations in flows that could be expected on the highway network. Therefore, the level of traffic generated by the proposals can easily be accommodated and will have no material impact on the safe operation of the local highway and will not significantly add to any congestion at the peak times on the local network.

Appendix A

Location plan



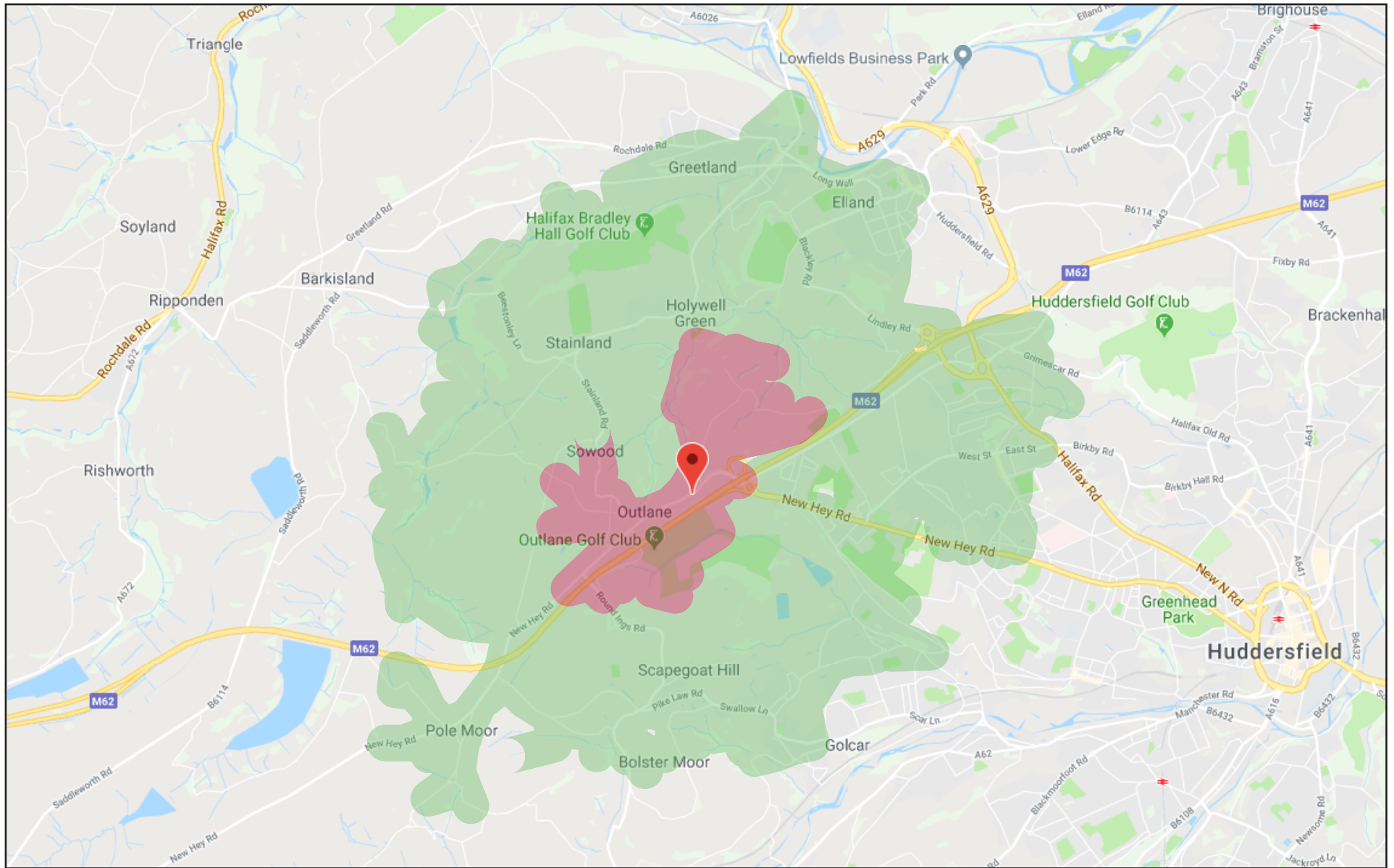
- SITE LOCATION
- BUS STOP LOCATION






UNIT 2, THE OFFICE CAMPUS,
 PARAGON BUSINESS PARK, RED HALL COURT,
 WAKEFIELD WF1 2UY

Appendix B

Pedestrian and Cycle Catchment



-  5km CYCLE CATCHMENT
-  2km WALKING CATCHMENT
-  SITE LOCATION



UNIT 2, THE OFFICE CAMPUS,
 PARAGON BUSINESS PARK, RED HALL COURT,
 WAKEFIELD WF1 2UY

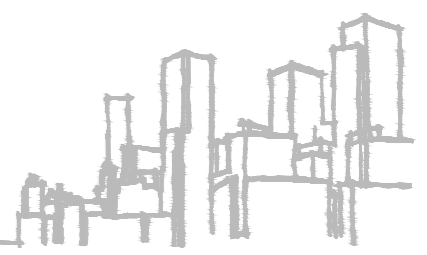
Appendix C

Proposed Development



PLANNING

Revision:



acumen
 designers & architects

acumenarchitects.co.uk 01484 546000
 Headrow House, Old Leeds Road, Huddersfield, HD1 1SG

CLIENT: HILLBROOK PRINTING INKS LTD. DIRECTORS PENSION SCHEME

JOB TITLE: RESIDENTIAL DEVELOPMENT at FORMER GEES GARAGE OUTLANE, HUDDERSFIELD

DRAWING TITLE: INDICATIVE SITE LAYOUT

DRAWN: JF DATE: SEP '18

CHECKED: JC SCALE: 1:500 @ A2

DRAWING NUMBER: 2554/1 - 02

Appendix D

TRICS Data

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL

Category : A - HOUSES PRIVATELY OWNED

VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	BD	BEDFORDSHIRE 2 days
	EX	ESSEX 1 days
	HF	HERTFORDSHIRE 1 days
	SC	SURREY 2 days
03	SOUTH WEST	
	CW	CORNWALL 2 days
	DC	DORSET 1 days
	GS	GLOUCESTERSHIRE 1 days
	WL	WILTSHIRE 1 days
04	EAST ANGLIA	
	CA	CAMBRIDGESHIRE 1 days
	SF	SUFFOLK 3 days
05	EAST MIDLANDS	
	DS	DERBYSHIRE 1 days
	LE	LEICESTERSHIRE 1 days
	LN	LINCOLNSHIRE 2 days
	NT	NOTTINGHAMSHIRE 1 days
06	WEST MIDLANDS	
	SH	SHROPSHIRE 2 days
	ST	STAFFORDSHIRE 1 days
	WM	WEST MIDLANDS 3 days
	WO	WORCESTERSHIRE 6 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NY	NORTH YORKSHIRE 3 days
08	NORTH WEST	
	CH	CHESHIRE 3 days
	LC	LANCASHIRE 2 days
	MS	MERSEYSIDE 1 days
09	NORTH	
	CB	CUMBRIA 3 days
	TV	TEES VALLEY 1 days
	TW	TYNE & WEAR 1 days
10	WALES	
	CF	CARDIFF 3 days
	CP	CAERPHILLY 1 days
	WR	WREXHAM 1 days

Filtering Stage 2 selection:

Parameter: Number of dwellings
Range: 10 to 792 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/02 to 05/09/10

Selected survey days:

Monday	10 days
Tuesday	13 days
Wednesday	7 days
Thursday	14 days
Friday	7 days

Selected survey types:

Manual count	51 days
Directional ATC Count	0 days

Selected Locations:

Edge of Town Centre	4
Suburban Area (PPS6 Out of Centre)	20
Edge of Town	24
Neighbourhood Centre (PPS6 Local Centre)	3

Selected Location Sub Categories:

Residential Zone	36
Village	1
Out of Town	1
No Sub Category	13

LIST OF SITES relevant to selection parameters

1	BD-03-A-01	SEMI DETACHED, LUTON NEW BEDFORD ROAD	BEDFORDSHIRE
		LUTON Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 131	
2	BD-03-A-02	SEMI DETACHED, LUTON RIDDIY LANE	BEDFORDSHIRE
		LUTON Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 82	
3	CA-03-A-02	MIXED HOUSES, PETERBOROUGH THORPE ROAD	CAMBRIDGESHIRE
		PETERBOROUGH Edge of Town Centre Residential Zone Total Number of dwellings: 363	
4	CB-03-A-02	SEMI DETACHED, WORKINGTON HAWKSHEAD AVENUE	CUMBRIA
		WORKINGTON Edge of Town Residential Zone Total Number of dwellings: 40	
5	CB-03-A-03	SEMI DETACHED, WORKINGTON HAWKSHEAD AVENUE	CUMBRIA
		WORKINGTON Edge of Town Residential Zone Total Number of dwellings: 40	
6	CB-03-A-04	SEMI DETACHED, WORKINGTON MOORCLOSE ROAD SALTERBACK WORKINGTON	CUMBRIA
		Edge of Town No Sub Category Total Number of dwellings: 82	
7	CF-03-A-01	MIXED HOUSES, CARDIFF VIRGIL STREET NINIAN PARK CARDIFF	CARDIFF
		Suburban Area (PPS6 Out of Centre) No Sub Category Total Number of dwellings: 222	
8	CF-03-A-02	MIXED HOUSES, CARDIFF DROPE ROAD	CARDIFF
		CARDIFF Edge of Town Residential Zone Total Number of dwellings: 196	
9	CF-03-A-03	DETACHED, CARDIFF LLANTRISANT ROAD	CARDIFF
		CARDIFF Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 29	

LIST OF SITES relevant to selection parameters (Cont.)

10	CH-03-A-02 SYDNEY ROAD	HOUSES/FLATS, CREWE		CESHIRE
	CREWE Edge of Town Residential Zone Total Number of dwellings:		174	
11	CH-03-A-05 SYDNEY ROAD SYDNEY CREWE	DETACHED, CREWE		CESHIRE
	Edge of Town Residential Zone Total Number of dwellings:		17	
12	CH-03-A-06 CREWE ROAD	SEMI-DET./BUNGALOWS, CREWE		CESHIRE
	CREWE Suburban Area (PPS6 Out of Centre) No Sub Category Total Number of dwellings:		129	
13	CP-03-A-02 THE RISE	SEMI DETACHED, PENGAM		CAERPHILLY
	PENGAM Suburban Area (PPS6 Out of Centre) No Sub Category Total Number of dwellings:		41	
14	CW-03-A-01 ALVERTON ROAD	TERRACED, PENZANCE		CORNWALL
	PENZANCE Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings:		13	
15	CW-03-A-02 BOSVEAN GARDENS	SEMI D./DETACHED, TRURO		CORNWALL
	TRURO Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings:		73	
16	DC-03-A-01 ISAACS CLOSE	DETACHED, POOLE		DORSET
	POOLE Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings:		51	
17	DS-03-A-01 THE AVENUE HOLMESDALE DRONFIELD	SEMI D./TERRACED, DRONFIELD		DERBYSHIRE
	Neighbourhood Centre (PPS6 Local Centre) Residential Zone Total Number of dwellings:		20	
18	EX-03-A-01 MILTON ROAD CORRINGHAM STANFORD-LE-HOPE	SEMI-DET., STANFORD-LE-HOPE		ESSEX
	Edge of Town Residential Zone Total Number of dwellings:		237	

LIST OF SITES relevant to selection parameters (Cont.)

19	GS-03-A-01	SEMI D./TERRACED, GLOUCESTER	GLOUCESTERSHIRE
	KINGSHOLM ROAD KINGSHOLM GLOUCESTER Edge of Town Centre No Sub Category Total Number of dwellings: 73		
20	HF-03-A-01	MIXED HOUSES, WELWYN GC	HERTFORDSHIRE
	LONGCROFT LANE WELWYN GARDEN CITY Edge of Town Centre Residential Zone Total Number of dwellings: 53		
21	LC-03-A-22	BUNGALOWS, BLACKPOOL	LANCASHIRE
	CLIFTON DRIVE NORTH BLACKPOOL Edge of Town Residential Zone Total Number of dwellings: 98		
22	LC-03-A-29	DETACHED/SEMI D., BLACKBURN	LANCASHIRE
	REVIDGE ROAD FOUR LANE ENDS BLACKBURN Edge of Town Residential Zone Total Number of dwellings: 185		
23	LE-03-A-01	DETACHED, MELTON MOWBRAY	LEICESTERSHIRE
	REDWOOD AVENUE MELTON MOWBRAY Edge of Town Residential Zone Total Number of dwellings: 11		
24	LN-03-A-01	MIXED HOUSES, LINCOLN	LINCOLNSHIRE
	BRANT ROAD BRACEBRIDGE LINCOLN Edge of Town Residential Zone Total Number of dwellings: 150		
25	LN-03-A-02	MIXED HOUSES, LINCOLN	LINCOLNSHIRE
	HYKEHAM ROAD LINCOLN Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 186		
26	MS-03-A-01	TERRACED, RUNCORN	MERSEYSIDE
	PALACE FIELDS AVENUE RUNCORN Neighbourhood Centre (PPS6 Local Centre) Residential Zone Total Number of dwellings: 372		
27	NT-03-A-03	SEMI DETACHED, KIRKBY-IN-ASHFD	NOTTINGHAMSHIRE
	B6018 SUTTON ROAD KIRKBY-IN-ASHFIELD Edge of Town Residential Zone Total Number of dwellings: 166		

LIST OF SITES relevant to selection parameters (Cont.)

28	NY-03-A-01	MIXED HOUSES,NORTHALLERTON GRAMMAR SCHOOL LANE	NORTH YORKSHIRE
		NORTHALLERTON Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 52	
29	NY-03-A-03	PRIVATE HOUSING, BOROUGHBRIDGE NEW ROW	NORTH YORKSHIRE
		BOROUGHBRIDGE Edge of Town Centre Residential Zone Total Number of dwellings: 14	
30	NY-03-A-05	HOUSES AND FLATS, RIPON BOROUGHBRIDGE ROAD	NORTH YORKSHIRE
		RIPON Edge of Town No Sub Category Total Number of dwellings: 71	
31	SC-03-A-03	DETACHED, EAST MOLESEY A3050 HURST ROAD HURST PARK EAST MOLESEY Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 54	SURREY
32	SC-03-A-04	HOUSES & FLATS,NEAR FRIMLEY DEEPCUT BRIDGE ROAD DEEPCUT NEAR FRIMLEY Neighbourhood Centre (PPS6 Local Centre) Village Total Number of dwellings: 288	SURREY
33	SF-03-A-01	SEMI DETACHED, IPSWICH A1156 FELIXSTOWE ROAD RACECOURSE IPSWICH Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 77	SUFFOLK
34	SF-03-A-02	SEMI DET./TERRACED, IPSWICH STOKE PARK DRIVE MAIDENHALL IPSWICH Edge of Town Residential Zone Total Number of dwellings: 230	SUFFOLK
35	SF-03-A-03	MIXED HOUSES, BURY ST EDMDS BARTON HILL FORNHAM ST MARTIN BURY ST EDMUNDS Edge of Town Out of Town Total Number of dwellings: 101	SUFFOLK
36	SH-03-A-03	DETACHED, SHREWSBURY SOMERBY DRIVE BICTON HEATH SHREWSBURY Edge of Town No Sub Category Total Number of dwellings: 10	SHROPSHIRE

LIST OF SITES relevant to selection parameters (Cont.)

37	SH-03-A-04	TERRACED, SHREWSBURY ST MICHAEL'S STREET	SHROPSHIRE
		SHREWSBURY Suburban Area (PPS6 Out of Centre) No Sub Category Total Number of dwellings: 108	
38	ST-03-A-05	TERRACED/DETACHED, STOKE WATERMEET GROVE ETRURIA STOKE-ON-TRENT Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 14	STAFFORDSHIRE
39	TV-03-A-01	MIXED HOUSES/FLATS, HARTLEPL POWLETT ROAD	TEES VALLEY
		HARTLEPOOL Suburban Area (PPS6 Out of Centre) No Sub Category Total Number of dwellings: 225	
40	TW-03-A-01	SEMI DETACHED, SUNDERLAND LEECHMERE ROAD HILLVIEW SUNDERLAND Edge of Town Residential Zone Total Number of dwellings: 81	TYNE & WEAR
41	WL-03-A-01	SEMI D./TERRACED W. BASSETT MAPLE DRIVE	WILTSHIRE
		WOOTTON BASSETT Edge of Town Residential Zone Total Number of dwellings: 99	
42	WM-03-A-01	TERRACED, COVENTRY FOLESHILL ROAD FOLESHILL COVENTRY Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 79	WEST MIDLANDS
43	WM-03-A-02	DETACHED/SEMI D., STRBRIDGE HEATH STREET	WEST MIDLANDS
		STOURBRIDGE Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 12	
44	WM-03-A-03	MIXED HOUSING, COVENTRY BASELEY WAY ROWLEYS GREEN COVENTRY Edge of Town Residential Zone Total Number of dwellings: 84	WEST MIDLANDS
45	WO-03-A-01	DETACHED, BROMSGROVE MARLBOROUGH AVENUE ASTON FIELDS BROMSGROVE Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 10	WORCESTERSHIRE

LIST OF SITES relevant to selection parameters (Cont.)

46	WO-03-A-02	SEMI DETACHED, REDDITCH MEADOWHILL ROAD	WORCESTERSHIRE
		REDDITCH Edge of Town No Sub Category Total Number of dwellings: 48	
47	WO-03-A-03	DETACHED, KIDDERMINSTER BLAKEBROOK BLAKEBROOK KIDDERMINSTER Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 138	WORCESTERSHIRE
48	WO-03-A-04	MIXED HOUSES, WORCESTER MALVERN ROAD	WORCESTERSHIRE
		WORCESTER Edge of Town Residential Zone Total Number of dwellings: 792	
49	WO-03-A-05	TERRACED/DET., BROMSGROVE ST GODWALDS ROAD ASTON FIELDS BROMSGROVE Edge of Town No Sub Category Total Number of dwellings: 215	WORCESTERSHIRE
50	WO-03-A-06	DET./TERRACED, BROMSGROVE ST GODWALDS ROAD ASTON FIELDS BROMSGROVE Edge of Town No Sub Category Total Number of dwellings: 232	WORCESTERSHIRE
51	WR-03-A-01	SEMI DETACHED, WREXHAM MOLD ROAD RHOSDDU WREXHAM Edge of Town No Sub Category Total Number of dwellings: 82	WREXHAM

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
VEHICLES

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000
01:00 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000
02:00 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000
03:00 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000
04:00 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000
05:00 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000
06:00 - 07:00	0	0	0.000	0	0	0.000	0	0	0.000
07:00 - 08:00	51	125	0.074	51	125	0.260	51	125	0.334
08:00 - 09:00	51	125	0.151	51	125	0.416	51	125	0.567
09:00 - 10:00	51	125	0.167	51	125	0.215	51	125	0.382
10:00 - 11:00	51	125	0.148	51	125	0.183	51	125	0.331
11:00 - 12:00	51	125	0.180	51	125	0.178	51	125	0.358
12:00 - 13:00	51	125	0.203	51	125	0.177	51	125	0.380
13:00 - 14:00	51	125	0.184	51	125	0.177	51	125	0.361
14:00 - 15:00	51	125	0.193	51	125	0.195	51	125	0.388
15:00 - 16:00	51	125	0.280	51	125	0.210	51	125	0.490
16:00 - 17:00	51	125	0.320	51	125	0.200	51	125	0.520
17:00 - 18:00	51	125	0.390	51	125	0.225	51	125	0.615
18:00 - 19:00	51	125	0.283	51	125	0.214	51	125	0.497
19:00 - 20:00	0	0	0.000	0	0	0.000	0	0	0.000
20:00 - 21:00	0	0	0.000	0	0	0.000	0	0	0.000
21:00 - 22:00	0	0	0.000	0	0	0.000	0	0	0.000
22:00 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000
23:00 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000
Total Rates:			2.573			2.650			5.223

Parameter summary

Trip rate parameter range selected: 10 - 792 (units:)
 Survey date date range: 01/01/02 - 05/09/10
 Number of weekdays (Monday-Friday): 51
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 0

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED

OGVS

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000
01:00 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000
02:00 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000
03:00 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000
04:00 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000
05:00 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000
06:00 - 07:00	0	0	0.000	0	0	0.000	0	0	0.000
07:00 - 08:00	51	125	0.003	51	125	0.003	51	125	0.006
08:00 - 09:00	51	125	0.003	51	125	0.003	51	125	0.006
09:00 - 10:00	51	125	0.005	51	125	0.003	51	125	0.008
10:00 - 11:00	51	125	0.003	51	125	0.004	51	125	0.007
11:00 - 12:00	51	125	0.002	51	125	0.002	51	125	0.004
12:00 - 13:00	51	125	0.004	51	125	0.004	51	125	0.008
13:00 - 14:00	51	125	0.004	51	125	0.004	51	125	0.008
14:00 - 15:00	51	125	0.002	51	125	0.003	51	125	0.005
15:00 - 16:00	51	125	0.002	51	125	0.002	51	125	0.004
16:00 - 17:00	51	125	0.002	51	125	0.001	51	125	0.003
17:00 - 18:00	51	125	0.001	51	125	0.001	51	125	0.002
18:00 - 19:00	51	125	0.001	51	125	0.001	51	125	0.002
19:00 - 20:00	0	0	0.000	0	0	0.000	0	0	0.000
20:00 - 21:00	0	0	0.000	0	0	0.000	0	0	0.000
21:00 - 22:00	0	0	0.000	0	0	0.000	0	0	0.000
22:00 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000
23:00 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000
Total Rates:			0.032			0.031			0.063

Parameter summary

Trip rate parameter range selected: 10 - 792 (units:)
 Survey date date range: 01/01/02 - 05/09/10
 Number of weekdays (Monday-Friday): 51
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 0

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED

PSVS

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000
01:00 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000
02:00 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000
03:00 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000
04:00 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000
05:00 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000
06:00 - 07:00	0	0	0.000	0	0	0.000	0	0	0.000
07:00 - 08:00	51	125	0.000	51	125	0.001	51	125	0.001
08:00 - 09:00	51	125	0.001	51	125	0.002	51	125	0.003
09:00 - 10:00	51	125	0.001	51	125	0.001	51	125	0.002
10:00 - 11:00	51	125	0.001	51	125	0.001	51	125	0.002
11:00 - 12:00	51	125	0.001	51	125	0.001	51	125	0.002
12:00 - 13:00	51	125	0.001	51	125	0.001	51	125	0.002
13:00 - 14:00	51	125	0.001	51	125	0.001	51	125	0.002
14:00 - 15:00	51	125	0.001	51	125	0.001	51	125	0.002
15:00 - 16:00	51	125	0.001	51	125	0.001	51	125	0.002
16:00 - 17:00	51	125	0.001	51	125	0.001	51	125	0.002
17:00 - 18:00	51	125	0.001	51	125	0.001	51	125	0.002
18:00 - 19:00	51	125	0.001	51	125	0.001	51	125	0.002
19:00 - 20:00	0	0	0.000	0	0	0.000	0	0	0.000
20:00 - 21:00	0	0	0.000	0	0	0.000	0	0	0.000
21:00 - 22:00	0	0	0.000	0	0	0.000	0	0	0.000
22:00 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000
23:00 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000
Total Rates:			0.011			0.013			0.024

Parameter summary

Trip rate parameter range selected: 10 - 792 (units:)
 Survey date date range: 01/01/02 - 05/09/10
 Number of weekdays (Monday-Friday): 51
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 0

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED
CYCLISTS

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000
01:00 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000
02:00 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000
03:00 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000
04:00 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000
05:00 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000
06:00 - 07:00	0	0	0.000	0	0	0.000	0	0	0.000
07:00 - 08:00	51	125	0.006	51	125	0.010	51	125	0.016
08:00 - 09:00	51	125	0.004	51	125	0.013	51	125	0.017
09:00 - 10:00	51	125	0.002	51	125	0.004	51	125	0.006
10:00 - 11:00	51	125	0.003	51	125	0.003	51	125	0.006
11:00 - 12:00	51	125	0.004	51	125	0.003	51	125	0.007
12:00 - 13:00	51	125	0.004	51	125	0.003	51	125	0.007
13:00 - 14:00	51	125	0.003	51	125	0.004	51	125	0.007
14:00 - 15:00	51	125	0.003	51	125	0.003	51	125	0.006
15:00 - 16:00	51	125	0.011	51	125	0.006	51	125	0.017
16:00 - 17:00	51	125	0.011	51	125	0.009	51	125	0.020
17:00 - 18:00	51	125	0.012	51	125	0.008	51	125	0.020
18:00 - 19:00	51	125	0.009	51	125	0.006	51	125	0.015
19:00 - 20:00	0	0	0.000	0	0	0.000	0	0	0.000
20:00 - 21:00	0	0	0.000	0	0	0.000	0	0	0.000
21:00 - 22:00	0	0	0.000	0	0	0.000	0	0	0.000
22:00 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000
23:00 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000
Total Rates:			0.072			0.072			0.144

Parameter summary

Trip rate parameter range selected: 10 - 792 (units:)
 Survey date date range: 01/01/02 - 05/09/10
 Number of weekdays (Monday-Friday): 51
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 0