



SCOTT-WHITE & HOOKINS

**PROPOSED DEVELOPMENT
ASH ROAD (SOUTH)
WREXHAM INDUSTRIAL
ESTATE**

TRANSPORT STATEMENT

LONDON HOUSE
42 WEST STREET
CARSHALTON
SURREY
SM5 2PR

Tel: 020 8773 3131
Fax: 020 8773 2605
Email: car@swh.co.uk

www.swh.co.uk

- STRUCTURAL ENGINEERS
- CIVIL ENGINEERS
- HIGHWAY ENGINEERS
- LAND SURVEYORS
- PROJECT MANAGERS
- HEALTH & SAFETY
- PLANNING SUPERVISORS
- APPROVED INSPECTORS
- ACCESS AUDITORS
- PARTY WALL SURVEYORS

C556/DAC

5th October 2007



**PROPOSED DEVELOPMENT
ASH ROAD (SOUTH)
WREXHAM INDUSTRIAL ESTATE
WREXHAM**

TRANSPORT STATEMENT

C556/DAC

5th October 2007.

**PROPOSED DEVELOPMENT
ASH ROAD (SOUTH)
WREXHAM INDUSTRIAL ESTATE
WREXHAM**

TRANSPORT STATEMENT

CONTENTS

1.0	Introduction
2.0	Existing highway conditions and access
3.0	Cycle route access
4.0	Pedestrian access
5.0	Bus access
6.0	Rail access
7.0	Existing Traffic flows
8.0	Traffic generation from new development
9.0	Proposed Access Road and Sight Lines
10.0	Parking Provision
11.0	Green Travel Plan
12.0	Future Highway Improvements

**PROPOSED DEVELOPMENT
ASH ROAD (SOUTH)
WREXHAM INDUSTRIAL ESTATE
WREXHAM**

TRANSPORT STATEMENT

SUMMARY

The proposed development of the vacant site in Ash Road (South) in the centre of the Estate comprises a total of 2,814 sq.m. in three industrial units and 1860sq.m. of warehousing in a single unit. Areas are measured as gross internal floor areas. Within the development proposals, adequate car parking, disabled and cycle parking facilities are to be provided in line with discussions with the planners and design standards. It has been assessed that the increase in traffic during peak hours would not have an adverse effect on the junction with Abbey Road and that the new access road conforms to the highway design standards in respect of geometry with adequate sight lines.

The proposed tenants have yet to be identified but it is anticipated that Green Travel Plans in line with current planning guidelines will be developed.

TRANSPORT STATEMENT

1.0 Introduction

- 1.01 This statement has been prepared in support of a planning application that is being made for the construction of 3 industrial units and a warehouse having gross internal floor areas of 2814 sq.m. and 1860 sq.m. respectively.
- 1.02 The general layout is shown on drawing C556/100 P05 prepared by Scott-White & Hookins and is reproduced in Appendix "C".

2.0 Existing highway conditions and access

- 2.01 Wrexham town has good access to the north via the A483 linking to Chester and the motorways to Liverpool and Manchester and to the A55 to Bangor and Holyhead. The road extends southward to the A5 and connects to Shrewsbury and Telford and the motorway to Birmingham.
- 2.02 Wrexham Industrial Estate lies to the east of Wrexham with the A534, which connects Wrexham to Crew in the east and the M6, located just to the north.
- 2.03 The Estate is accessed from the north off the A534 via Hugmore Lane and Abbey Road which in turn becomes Bridge Road (North) and forms a horse shoe inner road to the industrial estate. Ash Road and Ash Road (South) form a link between Abbey Road and Bridge Road (North).
- 2.04 Ash Road (South) is approximately 500m long running in a north south direction. At its northern end it becomes a cul-de-sac but 100m from here there is a turning into Ash Road. The road has a slow S- bend along its length and at its southern end straightens out to meet Bridge Road (North) at a right angled junction.
- 2.05 Opposite this junction in Bridge Road there is a service road that gives access to two industrial premises, these being Lloyds Animal Feeds Ltd and Tritech Ltd.
- 2.06 There is no access into the site from Ash Road (South) and it is intended to provide a new one within 100m of the bridge Road junction.
- 2.07 The location of Ash Road (South) and the industrial estate in relation to the road network are shown in Appendix "A" from which it will be seen that the site lies near the centre of the estate.

3.0 Cycle Routes

- 3.01 The industrial estate has no provision for cycle routes, however the proposed development will provide cycle parking facilities in accordance with the Local Planning Guidance Note No 15 – Cycling.
- 3.02 Within the proposed development it is anticipated that cyclists will use the new access road onto the road network. There is potential in the future to link adjacent sites and it may be possible at that time to introduce dedicated cycle routes other than to Ash Road (South). This however will be dependent on third party landowners.

4.0 Pedestrian Access.

- 4.01 Footpaths do not currently exist in Ash Road (South) and it is intended to provide a 2m wide footway on the eastern side. This will terminate to the north at the boundary of the site and to the south will continue into Bridge Road (North) and turn northeast to connect to the footway at the location of the bus stop.
- 4.02 Within the site 2m wide footpaths will be provided on each side of the access road with dedicated crossovers to the individual buildings.
- 4.03 As with the cycle route it may be possible to develop a dedicated footpath access through adjacent sites but this will be dependent on the co-operation of third party landowners.

5.0 Bus Access

- 5.01 A bus stop exists at the junction of Ash Road (South) and Bridge Road (North) and is served by the number 41 bus which runs between the Estate and Wrexham via Queensway. It is operated by GHA and is an hourly service Monday to Saturday during the day. They also operate the 41A four times in the evening from Wrexham to Holt via Queensway and the Estate. The 41B also runs twice a day from the town centre to the Estate only.
- 5.02 GHA also provide an evening service numbered 141 and 142 from Wrexham to Holt via Meallor Hospital and the Estate. There are five trips during this period.
- 5.03 Price Coaches provide a single trip Monday to Friday between Brynteg and the Estate.

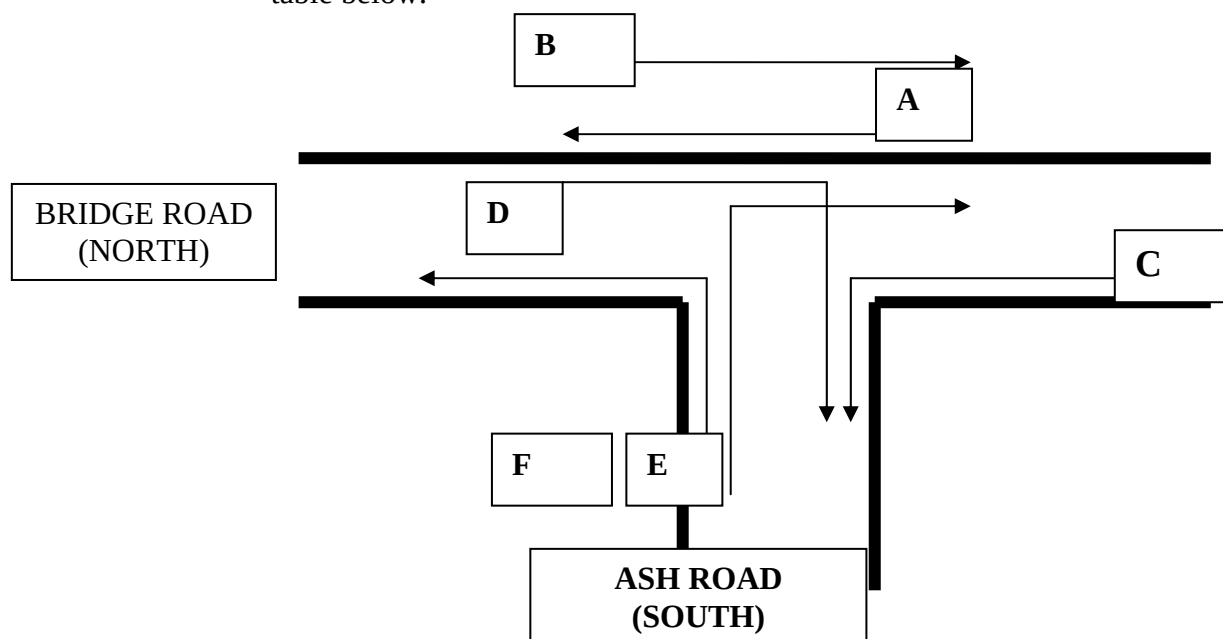
5.04 There is also a private Shuttle Bus service which operates on demand from the northern residential area of Wrexham specifically to the Estate with fares at £1.40 a day or £6.00 per week. This service provides a door to door service from home to work.

6.0 Rail Access

6.01 The nearest rail connection is Wrexham Station approximately 4 miles from the Estate. There is a good bus service from this location as well as taxi facilities. Wrexham has two railway stations and connections to the mainline passenger routes and two major rail freight terminals are located a short journey away by road.

7.0 Existing Traffic

7.01 In order to assess the existing traffic movements on Ash Road (South), a traffic count was undertaken at the peak morning period between 8am and 9am on 20th March 2007. The results of this are shown in the table below.



Movement	A	B	C	D	E	F
Cars	164	60	4	14	6	4
HGV	6	10	1	0	2	1
Buses	2	1	0	0	0	0
Lorries	8	4	0	0	1	0
cycle	1	0	0	0	0	0
Total	181	75	47	14	9	5
PCU's	206	105	8	14	15	7

- PCU's HGV = 3.5 lorries = 2.0 buses = 2.0 cars = 1.0 Cycles = 0.5
- 7.02 It will be seen from the above that the traffic flows in and out of Ash Road (South) are very low in the peak morning hour.

8.0 Traffic generation from the proposed development

- 8.01 The layout of the proposed development has been taken from the architect's layout plan A1002/06H.
- 8.02 In assessing the likely multi-modal traffic generation, information has been obtained by interrogating the TRICS database for similar sized mixed industrial and warehouse sites. In searching for similar sites the size and relative location has been taken into account.
- 8.03 The TRICS data base expresses generation factors based on 100sq. m. of gross external floor area. The gross internal areas defined on the architect's drawing above have been increased by 5% to take this into account. The following areas have therefore been used in the traffic assessment:-

Industrial Area $2,814 + 5\% = 2,955$ sq.m.
Warehouse Area $1,860 + 5\% = 1,953$ sq.m.

- 8.04 Four industrial sites were interrogated in Lincolnshire, Lancashire and two in East Renfrewshire and produced the following average results:- 0.857 arrivals and 0.318 departures in the morning; 0.384 arrivals and 0.833 departures in the evening. These values have been adopted for the three industrial units.
- 8.05 The planning application for the warehouse is for Use Class Order A1, B1 and B8 Warehousing/ Showroom Unit. In assessing the trip rate generation for this range of Use Class it is assumed that under A1 class any retail use would be of an ancillary nature to the warehouse. Trip rates have been compared between A1 Car Showroom/sales, B1 Business Park offices/ research and B8 Warehousing.
- 8.06 The trip generation from the three classifications are set down below:-

Coefficients per	AM		PM	
100 sq m	Arrivals	Departures	Arrivals	Departures
Business Parks	1.104	0.324	0.121	0.786
Industrial Sites	0.857	0.318	0.384	0.833
B8 Warehousing	0.883	0.308	0.144	0.945
Showroom/Sales	1.448	0.552	0.276	0.966

- 8.07 From the above it will be seen that the Showroom/Sales produces the higher generation and these factors have therefore been used in the assessment.
- 8.08 The trip rate pages for both the Industrial sites used for the three proposed units and the Warehouse Show room are reproduced in Appendix B.
- 8.09 These peak hourly coefficients are summarised below and equate to the following traffic generation for 2,955 sq.m B2 Industrial and 1,953 sq. m Showroom Unit:-

Coefficients per	AM		PM	
100 sq m	Arrivals	Departures	Arrivals	Departures
Showroom Unit	1.448	0.552	0.276	0.966
B2 Industrial Sites	0.857	0.318	0.384	0.833
Vehicle generation				
Showroom Unit	28	11	5	19
Industrial Sites	25	9	11	25
Total vehicles	53	20	16	44

- 8.10 In assessing the capacity of the junction with Bridge Road North it is assumed that 100% of the new traffic arrives and departs through this junction. The maximum combined flow is in the morning with 73 vehicles representing 1.2 vehicles per minute. When combined with existing turning of 44 vehicles in movements C, D, E and F from paragraph 7.01 the total turning flow increases to 2.00 vehicles per minute.
- 8.11 If all morning existing and new arrivals were assumed to arrive at the junction from the direction of flow B and have to cross flow A as movement D, the resulting flows would be $14+53=67$ crossing a flow of 206. This can be expressed as 1.12 vehicles crossing 3.43 vehicles per minute or 1 vehicle crossing in a gap of 15.6 seconds.
- 8.12 In practice some vehicles will approach the site from the north and some will approach the Bridge Road (north) junction from both the east and west so that the rate of flow will be very low and well within the capacity of the junction.

9.0 Proposed Access Road and Sight Lines

- 9.01 The proposed site access into the site is shown in Appendix 'C' on drawing C556/ 100P05. The access has been designed in accordance with the Design Manual for Roads and Bridges – Volume 6 – Road Geometry, Section 2 – Junctions. In respect of the sight lines reference was made to the 'Manual for Streets 2007' published for the Department of Transport. This reflects a reduction in the 'X' distance from 4.5m to 2.4m.
- 9.02 A ghost island junction is to be provided to cater for 16.5m long HGV turning movements in and out of the site and the white lining setting out for this is shown in Appendix C – drawing C556/ 101 P01.
- 9.03 In order to ascertain more accurately the speed of traffic on the road a vehicle speed check was undertaken on Tuesday 20th March 2007. Speeds were recorded in both directions in the location of the proposed junction and the 85th percentile wet weather speed calculated at 39mph in both directions.
- 9.04 The results of the survey are reproduced in Appendix 'D'.
- 9.05 Sight lines have been calculated in accordance with the table 38.2 in 'Transport in the Urban Environment', which is reproduced below, for the 85th percentile wet weather speed:-

Major road speed (85%ile)	miles/ h km/ h	75 120	62.5 100	53 85	44 70	37.5 60	31 50	25 40
Major road (y) distance	m	295	215	160	120	90	70	45

85%ile speed of 39mph y distance equals 97m

- 9.06 At a speed of 39mph the sight lines by interpolation are 97m taken from a position 2.4m back from the kerb line. The sight lines are shown on drawing C556/100 P05.
- 9.07 It is to be noted that the above sight line to the north crosses the adjacent boundary prior to meeting the likely back of footpath line. If the 'y' distance is amended to eliminate this a distance of 92.75m can be achieved as shown on drawing C556/102 P01 in Appendix C. If the area should be planted up to the kerb line a 'y' distance of 80m can be achieved.

- 9.08 It is unlikely that the small area at the back of pavement would ever be planted so as to obstruct the sight line and should the adjacent site be developed it is probable that as a condition of planning a new footpath in front of the development site would be required. The sight lines as indicated are therefore considered adequate for this location.

10.0 Parking Provision

- 10.01 Parking for vehicles is set at a ratio of 1space per 50 sq.m for industrial and show room units in accordance with the Local Planning Guidance Note No. 16. A total number of 93 parking spaces are to be provided.

Unit	Gross floor area	Parking standard 1 space per gross sq.m	Calculated spaces	Total Spaces provided	Disabled parking provision
1	1029	50	21	21	2
2	925	50	19	19	2
3	860	50	17	18	2
4	1860	100	19	35	4

- 10.02 Cycle spaces are to be provided at the rate of 1 space per 350 sq.m in accordance with the Local Planning Guidance Note No. 15.
- 10.03 10% of parking spaces amounting to 10 spaces will be designated for the needs of the physically handicapped and shall be provided with a minimum width of 3.6m

11.0 Green Travel Plan

- 11.01 It is anticipated that tenants of the units will be encouraged to develop their own Green Travel Plan and Travel for Work Plans in line with guidance notes produced by the DfT.
- 11.02 Wrexham Industrial Estate operates a Car Sharing scheme and has a web site for potential employees on the estate to log-in and search for anyone else wanting to car share from the vicinity of where they live. It is anticipated that some employees will avail themselves of this facility.
- 11.03 Employees living in the residential area immediately to the north of Wrexham can be made aware of the Shuttle Bus service which operates to and from the Estate and be encouraged to use this dedicated service.
- 11.04 By providing cycle storage facilities, employees are encouraged to use this alternative form of transport.

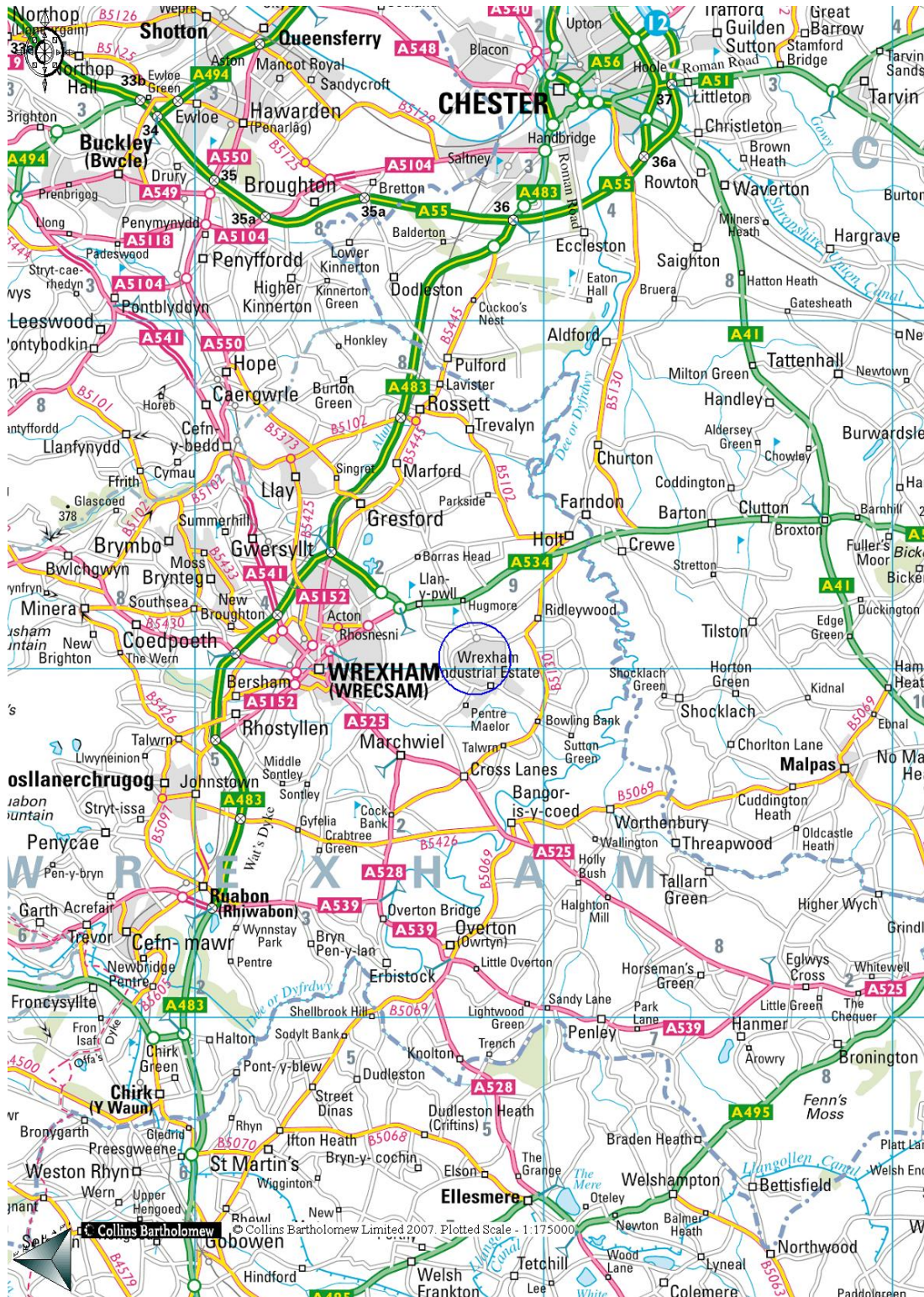
12.0 Future Highway Improvements

- 12.01 The success of Wrexham Industrial Estate is evident by the increase in commercial traffic since its inception. Recent years have seen a marked improvement in the highway network thus removing traffic from the immediate environs of Wrexham. Further funding has now been allocated to complete the link road in 2010 from the bypass directly into the Estate.
- 12.02 Infrastructure improvements are an essential component in the development of a successful industrial estate and this coupled with Green Travel Plans and Travel for Work Plans will ensure a sustainable environment in which to develop.

APPENDIX ‘A’

Location Plans

WREXHAM INDUSTRIAL ESTATE SITE LOCATION PLAN





WREXHAM INDUSTRIAL ESTATE

APPENDIX ‘B’

TRICS Data

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
Category : D - INDUSTRIAL ESTATE

MULTI-MODAL VEHICLESSelected regions and areas:

05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
08	NORTH WEST	
	LC LANCASHIRE	1 days
11	SCOTLAND	
	ER EAST RENFREWSHIRE	2 days

Main parameter selection:

Parameter: Gross floor area
Range: 4233 to 7211 (units: sqm)

Date Range: 01/01/98 to 16/06/06

Selected survey days:

Wednesday	2 days
Thursday	1 days
Friday	1 days

Selected survey types:

Manual count	4 days
Directional ATC Count	0 days

LIST OF SITES relevant to selection parameters

- 1 **ER-02-D-01** **INDUSTRIAL ESTATE, BARRHEAD** **EAST RENFREWSHIRE**
MURIEL STREET

BARRHEAD

Total Gross floor area: 7211 sqm

- 2 **ER-02-D-02** **INDUSTRIAL ESTATE, GIFFNOCK** **EAST RENFREWSHIRE**

SPIERSBRIDGE AVENUE

THORNLIBANK

GIFFNOCK

Total Gross floor area: 4233 sqm

- 3 **LC-02-D-04** **INDUSTRIAL ESTATE, GARSTANG** **LANCASHIRE**
GREEN LANE WEST

GARSTANG

Total Gross floor area: 4555 sqm

- 4 **LN-02-D-01** **INDUSTRIAL ESTATE, GRANTHAM** **LINCOLNSHIRE**
BELTON LANE

GRANTHAM

Total Gross floor area: 5347 sqm

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE

MULTI-MODAL VEHICLES**Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30	0	0	0.000	0	0	0.000	0	0	0.000
00:30 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000
01:00 - 01:30	0	0	0.000	0	0	0.000	0	0	0.000
01:30 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000
02:00 - 02:30	0	0	0.000	0	0	0.000	0	0	0.000
02:30 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000
03:00 - 03:30	0	0	0.000	0	0	0.000	0	0	0.000
03:30 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000
04:00 - 04:30	0	0	0.000	0	0	0.000	0	0	0.000
04:30 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000
05:00 - 05:30	0	0	0.000	0	0	0.000	0	0	0.000
05:30 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000
06:00 - 06:30	2	5722	0.070	2	5722	0.061	2	5722	0.131
06:30 - 07:00	2	5722	0.087	2	5722	0.061	2	5722	0.148
07:00 - 07:30	4	5337	0.169	4	5337	0.126	4	5337	0.295
07:30 - 08:00	4	5337	0.478	4	5337	0.084	4	5337	0.562
08:00 - 08:30	4	5337	0.379	4	5337	0.234	4	5337	0.613
08:30 - 09:00	4	5337	0.323	4	5337	0.281	4	5337	0.604
09:00 - 09:30	4	5337	0.281	4	5337	0.187	4	5337	0.468
09:30 - 10:00	4	5337	0.239	4	5337	0.281	4	5337	0.520
10:00 - 10:30	4	5337	0.206	4	5337	0.220	4	5337	0.426
10:30 - 11:00	4	5337	0.225	4	5337	0.197	4	5337	0.422
11:00 - 11:30	4	5337	0.234	4	5337	0.220	4	5337	0.454
11:30 - 12:00	4	5337	0.262	4	5337	0.201	4	5337	0.463
12:00 - 12:30	4	5337	0.197	4	5337	0.262	4	5337	0.459
12:30 - 13:00	4	5337	0.262	4	5337	0.290	4	5337	0.552
13:00 - 13:30	4	5337	0.248	4	5337	0.239	4	5337	0.487
13:30 - 14:00	4	5337	0.244	4	5337	0.234	4	5337	0.478
14:00 - 14:30	4	5337	0.253	4	5337	0.183	4	5337	0.436
14:30 - 15:00	4	5337	0.159	4	5337	0.211	4	5337	0.370
15:00 - 15:30	4	5337	0.220	4	5337	0.206	4	5337	0.426
15:30 - 16:00	4	5337	0.220	4	5337	0.197	4	5337	0.417
16:00 - 16:30	4	5337	0.173	4	5337	0.305	4	5337	0.478
16:30 - 17:00	4	5337	0.201	4	5337	0.290	4	5337	0.491
17:00 - 17:30	4	5337	0.183	4	5337	0.543	4	5337	0.726
17:30 - 18:00	4	5337	0.080	4	5337	0.201	4	5337	0.281
18:00 - 18:30	4	5337	0.056	4	5337	0.141	4	5337	0.197
18:30 - 19:00	4	5337	0.037	4	5337	0.042	4	5337	0.079
19:00 - 19:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
19:30 - 20:00	1	7211	0.028	1	7211	0.014	1	7211	0.042
20:00 - 20:30	1	7211	0.000	1	7211	0.014	1	7211	0.014
20:30 - 21:00	1	7211	0.000	1	7211	0.014	1	7211	0.014
21:00 - 21:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
21:30 - 22:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
22:00 - 22:30	0	0	0.000	0	0	0.000	0	0	0.000
22:30 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000
23:00 - 23:30	0	0	0.000	0	0	0.000	0	0	0.000
23:30 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000
Daily Trip Rates:			5.514				5.539	11.053	

Parameter summary

Trip rate parameter range selected:	4233 - 7211 (units: sqm)
Survey date date range:	01/01/98 - 16/06/06
Number of weekdays (Monday-Friday):	4
Number of Saturdays:	0
Number of Sundays:	0
Optional parameters used in selection:	NO
Surveys manually removed from selection:	0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT

Category : D - INDUSTRIAL ESTATE

MULTI-MODAL VEHICLE OCCUPANTSSelected regions and areas:

05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
08	NORTH WEST	
	LC LANCASHIRE	1 days
11	SCOTLAND	
	ER EAST RENFREWSHIRE	2 days

Main parameter selection:

Parameter: Gross floor area

Range: 4233 to 7211 (units: sqm)

Date Range: 01/01/98 to 16/06/06

Selected survey days:

Wednesday	2 days
Thursday	1 days
Friday	1 days

Selected survey types:

Manual count	4 days
Directional ATC Count	0 days

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE

MULTI-MODAL VEHICLE OCCUPANTS**Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30	0	0	0.000	0	0	0.000	0	0	0.000
00:30 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000
01:00 - 01:30	0	0	0.000	0	0	0.000	0	0	0.000
01:30 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000
02:00 - 02:30	0	0	0.000	0	0	0.000	0	0	0.000
02:30 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000
03:00 - 03:30	0	0	0.000	0	0	0.000	0	0	0.000
03:30 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000
04:00 - 04:30	0	0	0.000	0	0	0.000	0	0	0.000
04:30 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000
05:00 - 05:30	0	0	0.000	0	0	0.000	0	0	0.000
05:30 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000
06:00 - 06:30	2	5722	0.114	2	5722	0.087	2	5722	0.201
06:30 - 07:00	2	5722	0.114	2	5722	0.035	2	5722	0.149
07:00 - 07:30	4	5337	0.187	4	5337	0.141	4	5337	0.328
07:30 - 08:00	4	5337	0.553	4	5337	0.089	4	5337	0.642
08:00 - 08:30	4	5337	0.431	4	5337	0.272	4	5337	0.703
08:30 - 09:00	4	5337	0.365	4	5337	0.295	4	5337	0.660
09:00 - 09:30	4	5337	0.314	4	5337	0.201	4	5337	0.515
09:30 - 10:00	4	5337	0.248	4	5337	0.300	4	5337	0.548
10:00 - 10:30	4	5337	0.211	4	5337	0.230	4	5337	0.441
10:30 - 11:00	4	5337	0.244	4	5337	0.215	4	5337	0.459
11:00 - 11:30	4	5337	0.234	4	5337	0.248	4	5337	0.482
11:30 - 12:00	4	5337	0.276	4	5337	0.211	4	5337	0.487
12:00 - 12:30	4	5337	0.206	4	5337	0.295	4	5337	0.501
12:30 - 13:00	4	5337	0.267	4	5337	0.309	4	5337	0.576
13:00 - 13:30	4	5337	0.300	4	5337	0.295	4	5337	0.595
13:30 - 14:00	4	5337	0.272	4	5337	0.267	4	5337	0.539
14:00 - 14:30	4	5337	0.290	4	5337	0.201	4	5337	0.491
14:30 - 15:00	4	5337	0.183	4	5337	0.234	4	5337	0.417
15:00 - 15:30	4	5337	0.272	4	5337	0.220	4	5337	0.492
15:30 - 16:00	4	5337	0.281	4	5337	0.239	4	5337	0.520
16:00 - 16:30	4	5337	0.192	4	5337	0.319	4	5337	0.511
16:30 - 17:00	4	5337	0.220	4	5337	0.290	4	5337	0.510
17:00 - 17:30	4	5337	0.220	4	5337	0.637	4	5337	0.857
17:30 - 18:00	4	5337	0.084	4	5337	0.230	4	5337	0.314
18:00 - 18:30	4	5337	0.061	4	5337	0.173	4	5337	0.234
18:30 - 19:00	4	5337	0.033	4	5337	0.047	4	5337	0.080
19:00 - 19:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
19:30 - 20:00	1	7211	0.028	1	7211	0.028	1	7211	0.056
20:00 - 20:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
20:30 - 21:00	1	7211	0.000	1	7211	0.014	1	7211	0.014
21:00 - 21:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
21:30 - 22:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
22:00 - 22:30	0	0	0.000	0	0	0.000	0	0	0.000
22:30 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000
23:00 - 23:30	0	0	0.000	0	0	0.000	0	0	0.000
23:30 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000
Daily Trip Rates:			6.200				6.122	12.322	

Parameter summary

Trip rate parameter range selected:	4233 - 7211 (units: sqm)
Survey date date range:	01/01/98 - 16/06/06
Number of weekdays (Monday-Friday):	4
Number of Saturdays:	0
Number of Sundays:	0
Optional parameters used in selection:	NO
Surveys manually removed from selection:	0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT

Category : D - INDUSTRIAL ESTATE

MULTI-MODAL TOTAL PEOPLESelected regions and areas:**05 EAST MIDLANDS**

LN LINCOLNSHIRE 1 days

08 NORTH WEST

LC LANCASHIRE 1 days

11 SCOTLAND

ER EAST RENFREWSHIRE 2 days

Main parameter selection:

Parameter: Gross floor area

Range: 4233 to 7211 (units: sqm)

Date Range: 01/01/98 to 16/06/06

Selected survey days:

Wednesday 2 days

Thursday 1 days

Friday 1 days

Selected survey types:

Manual count 4 days

Directional ATC Count 0 days

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE

MULTI-MODAL TOTAL PEOPLE**Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30	0	0	0.000	0	0	0.000	0	0	0.000
00:30 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000
01:00 - 01:30	0	0	0.000	0	0	0.000	0	0	0.000
01:30 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000
02:00 - 02:30	0	0	0.000	0	0	0.000	0	0	0.000
02:30 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000
03:00 - 03:30	0	0	0.000	0	0	0.000	0	0	0.000
03:30 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000
04:00 - 04:30	0	0	0.000	0	0	0.000	0	0	0.000
04:30 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000
05:00 - 05:30	0	0	0.000	0	0	0.000	0	0	0.000
05:30 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000
06:00 - 06:30	2	5722	0.122	2	5722	0.087	2	5722	0.209
06:30 - 07:00	2	5722	0.140	2	5722	0.035	2	5722	0.175
07:00 - 07:30	4	5337	0.206	4	5337	0.141	4	5337	0.347
07:30 - 08:00	4	5337	0.651	4	5337	0.089	4	5337	0.740
08:00 - 08:30	4	5337	0.492	4	5337	0.276	4	5337	0.768
08:30 - 09:00	4	5337	0.426	4	5337	0.305	4	5337	0.731
09:00 - 09:30	4	5337	0.370	4	5337	0.230	4	5337	0.600
09:30 - 10:00	4	5337	0.262	4	5337	0.300	4	5337	0.562
10:00 - 10:30	4	5337	0.215	4	5337	0.234	4	5337	0.449
10:30 - 11:00	4	5337	0.244	4	5337	0.220	4	5337	0.464
11:00 - 11:30	4	5337	0.267	4	5337	0.262	4	5337	0.529
11:30 - 12:00	4	5337	0.276	4	5337	0.239	4	5337	0.515
12:00 - 12:30	4	5337	0.253	4	5337	0.328	4	5337	0.581
12:30 - 13:00	4	5337	0.333	4	5337	0.356	4	5337	0.689
13:00 - 13:30	4	5337	0.323	4	5337	0.319	4	5337	0.642
13:30 - 14:00	4	5337	0.295	4	5337	0.281	4	5337	0.576
14:00 - 14:30	4	5337	0.300	4	5337	0.220	4	5337	0.520
14:30 - 15:00	4	5337	0.211	4	5337	0.262	4	5337	0.473
15:00 - 15:30	4	5337	0.290	4	5337	0.230	4	5337	0.520
15:30 - 16:00	4	5337	0.290	4	5337	0.272	4	5337	0.562
16:00 - 16:30	4	5337	0.206	4	5337	0.361	4	5337	0.567
16:30 - 17:00	4	5337	0.244	4	5337	0.370	4	5337	0.614
17:00 - 17:30	4	5337	0.272	4	5337	0.703	4	5337	0.975
17:30 - 18:00	4	5337	0.089	4	5337	0.262	4	5337	0.351
18:00 - 18:30	4	5337	0.066	4	5337	0.183	4	5337	0.249
18:30 - 19:00	4	5337	0.033	4	5337	0.070	4	5337	0.103
19:00 - 19:30	1	7211	0.000	1	7211	0.014	1	7211	0.014
19:30 - 20:00	1	7211	0.028	1	7211	0.028	1	7211	0.056
20:00 - 20:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
20:30 - 21:00	1	7211	0.000	1	7211	0.014	1	7211	0.014
21:00 - 21:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
21:30 - 22:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
22:00 - 22:30	0	0	0.000	0	0	0.000	0	0	0.000
22:30 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000
23:00 - 23:30	0	0	0.000	0	0	0.000	0	0	0.000
23:30 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000
Daily Trip Rates:			6.904				6.691	13.595	

Parameter summary

Trip rate parameter range selected:	4233 - 7211 (units: sqm)
Survey date date range:	01/01/98 - 16/06/06
Number of weekdays (Monday-Friday):	4
Number of Saturdays:	0
Number of Sundays:	0
Optional parameters used in selection:	NO
Surveys manually removed from selection:	0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT

Category : D - INDUSTRIAL ESTATE

MULTI-MODAL PUBLIC TRANSPORT USERSSelected regions and areas:

05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
08	NORTH WEST	
	LC LANCASHIRE	1 days
11	SCOTLAND	
	ER EAST RENFREWSHIRE	2 days

Main parameter selection:

Parameter: Gross floor area

Range: 4233 to 7211 (units: sqm)

Date Range: 01/01/98 to 16/06/06

Selected survey days:

Wednesday	2 days
Thursday	1 days
Friday	1 days

Selected survey types:

Manual count	4 days
Directional ATC Count	0 days

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE

MULTI-MODAL PUBLIC TRANSPORT USERS**Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30	0	0	0.000	0	0	0.000	0	0	0.000
00:30 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000
01:00 - 01:30	0	0	0.000	0	0	0.000	0	0	0.000
01:30 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000
02:00 - 02:30	0	0	0.000	0	0	0.000	0	0	0.000
02:30 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000
03:00 - 03:30	0	0	0.000	0	0	0.000	0	0	0.000
03:30 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000
04:00 - 04:30	0	0	0.000	0	0	0.000	0	0	0.000
04:30 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000
05:00 - 05:30	0	0	0.000	0	0	0.000	0	0	0.000
05:30 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000
06:00 - 06:30	2	5722	0.000	2	5722	0.000	2	5722	0.000
06:30 - 07:00	2	5722	0.000	2	5722	0.000	2	5722	0.000
07:00 - 07:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
07:30 - 08:00	4	5337	0.033	4	5337	0.000	4	5337	0.033
08:00 - 08:30	4	5337	0.014	4	5337	0.000	4	5337	0.014
08:30 - 09:00	4	5337	0.019	4	5337	0.000	4	5337	0.019
09:00 - 09:30	4	5337	0.005	4	5337	0.000	4	5337	0.005
09:30 - 10:00	4	5337	0.005	4	5337	0.000	4	5337	0.005
10:00 - 10:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
10:30 - 11:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
11:00 - 11:30	4	5337	0.009	4	5337	0.005	4	5337	0.014
11:30 - 12:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
12:00 - 12:30	4	5337	0.005	4	5337	0.005	4	5337	0.010
12:30 - 13:00	4	5337	0.005	4	5337	0.000	4	5337	0.005
13:00 - 13:30	4	5337	0.000	4	5337	0.005	4	5337	0.005
13:30 - 14:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
14:00 - 14:30	4	5337	0.000	4	5337	0.005	4	5337	0.005
14:30 - 15:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
15:00 - 15:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
15:30 - 16:00	4	5337	0.000	4	5337	0.005	4	5337	0.005
16:00 - 16:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
16:30 - 17:00	4	5337	0.000	4	5337	0.037	4	5337	0.037
17:00 - 17:30	4	5337	0.000	4	5337	0.009	4	5337	0.009
17:30 - 18:00	4	5337	0.000	4	5337	0.019	4	5337	0.019
18:00 - 18:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
18:30 - 19:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
19:00 - 19:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
19:30 - 20:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
20:00 - 20:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
20:30 - 21:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
21:00 - 21:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
21:30 - 22:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
22:00 - 22:30	0	0	0.000	0	0	0.000	0	0	0.000
22:30 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000
23:00 - 23:30	0	0	0.000	0	0	0.000	0	0	0.000
23:30 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000
Daily Trip Rates:			0.095				0.090		

Parameter summary

Trip rate parameter range selected:	4233 - 7211 (units: sqm)
Survey date date range:	01/01/98 - 16/06/06
Number of weekdays (Monday-Friday):	4
Number of Saturdays:	0
Number of Sundays:	0
Optional parameters used in selection:	NO
Surveys manually removed from selection:	0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
Category : D - INDUSTRIAL ESTATE

MULTI-MODAL PSVSSelected regions and areas:

05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
08	NORTH WEST	
	LC LANCASHIRE	1 days
11	SCOTLAND	
	ER EAST RENFREWSHIRE	2 days

Main parameter selection:

Parameter: Gross floor area
Range: 4233 to 7211 (units: sqm)

Date Range: 01/01/98 to 16/06/06

Selected survey days:

Wednesday	2 days
Thursday	1 days
Friday	1 days

Selected survey types:

Manual count	4 days
Directional ATC Count	0 days

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE

MULTI-MODAL PSVS**Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30	0	0	0.000	0	0	0.000	0	0	0.000
00:30 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000
01:00 - 01:30	0	0	0.000	0	0	0.000	0	0	0.000
01:30 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000
02:00 - 02:30	0	0	0.000	0	0	0.000	0	0	0.000
02:30 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000
03:00 - 03:30	0	0	0.000	0	0	0.000	0	0	0.000
03:30 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000
04:00 - 04:30	0	0	0.000	0	0	0.000	0	0	0.000
04:30 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000
05:00 - 05:30	0	0	0.000	0	0	0.000	0	0	0.000
05:30 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000
06:00 - 06:30	2	5722	0.000	2	5722	0.000	2	5722	0.000
06:30 - 07:00	2	5722	0.000	2	5722	0.000	2	5722	0.000
07:00 - 07:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
07:30 - 08:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
08:00 - 08:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
08:30 - 09:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
09:00 - 09:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
09:30 - 10:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
10:00 - 10:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
10:30 - 11:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
11:00 - 11:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
11:30 - 12:00	4	5337	0.005	4	5337	0.005	4	5337	0.010
12:00 - 12:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
12:30 - 13:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
13:00 - 13:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
13:30 - 14:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
14:00 - 14:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
14:30 - 15:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
15:00 - 15:30	4	5337	0.005	4	5337	0.005	4	5337	0.010
15:30 - 16:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
16:00 - 16:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
16:30 - 17:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
17:00 - 17:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
17:30 - 18:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
18:00 - 18:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
18:30 - 19:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
19:00 - 19:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
19:30 - 20:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
20:00 - 20:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
20:30 - 21:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
21:00 - 21:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
21:30 - 22:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
22:00 - 22:30	0	0	0.000	0	0	0.000	0	0	0.000
22:30 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000
23:00 - 23:30	0	0	0.000	0	0	0.000	0	0	0.000
23:30 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000
Daily Trip Rates:			0.010				0.010	0.020	

Parameter summary

Trip rate parameter range selected:	4233 - 7211 (units: sqm)
Survey date date range:	01/01/98 - 16/06/06
Number of weekdays (Monday-Friday):	4
Number of Saturdays:	0
Number of Sundays:	0
Optional parameters used in selection:	NO
Surveys manually removed from selection:	0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
Category : D - INDUSTRIAL ESTATE

MULTI-MODAL PEDESTRIANSSelected regions and areas:

05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
08	NORTH WEST	
	LC LANCASHIRE	1 days
11	SCOTLAND	
	ER EAST RENFREWSHIRE	2 days

Main parameter selection:

Parameter: Gross floor area
Range: 4233 to 7211 (units: sqm)

Date Range: 01/01/98 to 16/06/06

Selected survey days:

Wednesday	2 days
Thursday	1 days
Friday	1 days

Selected survey types:

Manual count	4 days
Directional ATC Count	0 days

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE

MULTI-MODAL PEDESTRIANS

Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS			
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	
00:00 - 00:30	0	0	0.000	0	0	0.000	0	0	0.000	
00:30 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000	
01:00 - 01:30	0	0	0.000	0	0	0.000	0	0	0.000	
01:30 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000	
02:00 - 02:30	0	0	0.000	0	0	0.000	0	0	0.000	
02:30 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000	
03:00 - 03:30	0	0	0.000	0	0	0.000	0	0	0.000	
03:30 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000	
04:00 - 04:30	0	0	0.000	0	0	0.000	0	0	0.000	
04:30 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000	
05:00 - 05:30	0	0	0.000	0	0	0.000	0	0	0.000	
05:30 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000	
06:00 - 06:30	2	5722	0.009	2	5722	0.000	2	5722	0.009	
06:30 - 07:00	2	5722	0.026	2	5722	0.000	2	5722	0.026	
07:00 - 07:30	4	5337	0.019	4	5337	0.000	4	5337	0.019	
07:30 - 08:00	4	5337	0.052	4	5337	0.000	4	5337	0.052	
08:00 - 08:30	4	5337	0.042	4	5337	0.005	4	5337	0.047	
08:30 - 09:00	4	5337	0.033	4	5337	0.009	4	5337	0.042	
09:00 - 09:30	4	5337	0.042	4	5337	0.023	4	5337	0.065	
09:30 - 10:00	4	5337	0.009	4	5337	0.000	4	5337	0.009	
10:00 - 10:30	4	5337	0.005	4	5337	0.005	4	5337	0.010	
10:30 - 11:00	4	5337	0.000	4	5337	0.005	4	5337	0.005	
11:00 - 11:30	4	5337	0.023	4	5337	0.009	4	5337	0.032	
11:30 - 12:00	4	5337	0.000	4	5337	0.028	4	5337	0.028	
12:00 - 12:30	4	5337	0.037	4	5337	0.028	4	5337	0.065	
12:30 - 13:00	4	5337	0.056	4	5337	0.033	4	5337	0.089	
13:00 - 13:30	4	5337	0.009	4	5337	0.009	4	5337	0.018	
13:30 - 14:00	4	5337	0.014	4	5337	0.014	4	5337	0.028	
14:00 - 14:30	4	5337	0.009	4	5337	0.014	4	5337	0.023	
14:30 - 15:00	4	5337	0.028	4	5337	0.028	4	5337	0.056	
15:00 - 15:30	4	5337	0.019	4	5337	0.009	4	5337	0.028	
15:30 - 16:00	4	5337	0.000	4	5337	0.009	4	5337	0.009	
16:00 - 16:30	4	5337	0.009	4	5337	0.033	4	5337	0.042	
16:30 - 17:00	4	5337	0.019	4	5337	0.042	4	5337	0.061	
17:00 - 17:30	4	5337	0.047	4	5337	0.033	4	5337	0.080	
17:30 - 18:00	4	5337	0.005	4	5337	0.009	4	5337	0.014	
18:00 - 18:30	4	5337	0.005	4	5337	0.009	4	5337	0.014	
18:30 - 19:00	4	5337	0.000	4	5337	0.009	4	5337	0.009	
19:00 - 19:30	1	7211	0.000	1	7211	0.014	1	7211	0.014	
19:30 - 20:00	1	7211	0.000	1	7211	0.000	1	7211	0.000	
20:00 - 20:30	1	7211	0.000	1	7211	0.000	1	7211	0.000	
20:30 - 21:00	1	7211	0.000	1	7211	0.000	1	7211	0.000	
21:00 - 21:30	1	7211	0.000	1	7211	0.000	1	7211	0.000	
21:30 - 22:00	1	7211	0.000	1	7211	0.000	1	7211	0.000	
22:00 - 22:30	0	0	0.000	0	0	0.000	0	0	0.000	
22:30 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000	
23:00 - 23:30	0	0	0.000	0	0	0.000	0	0	0.000	
23:30 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000	
Daily Trip Rates:			0.517				0.377			0.894

Parameter summary

Trip rate parameter range selected:	4233 - 7211 (units: sqm)
Survey date date range:	01/01/98 - 16/06/06
Number of weekdays (Monday-Friday):	4
Number of Saturdays:	0
Number of Sundays:	0
Optional parameters used in selection:	NO
Surveys manually removed from selection:	0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
Category : D - INDUSTRIAL ESTATE

MULTI-MODAL OGVSSelected regions and areas:

05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
08	NORTH WEST	
	LC LANCASHIRE	1 days
11	SCOTLAND	
	ER EAST RENFREWSHIRE	2 days

Main parameter selection:

Parameter: Gross floor area
Range: 4233 to 7211 (units: sqm)

Date Range: 01/01/98 to 16/06/06

Selected survey days:

Wednesday	2 days
Thursday	1 days
Friday	1 days

Selected survey types:

Manual count	4 days
Directional ATC Count	0 days

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE

MULTI-MODAL OGVS**Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30	0	0	0.000	0	0	0.000	0	0	0.000
00:30 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000
01:00 - 01:30	0	0	0.000	0	0	0.000	0	0	0.000
01:30 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000
02:00 - 02:30	0	0	0.000	0	0	0.000	0	0	0.000
02:30 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000
03:00 - 03:30	0	0	0.000	0	0	0.000	0	0	0.000
03:30 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000
04:00 - 04:30	0	0	0.000	0	0	0.000	0	0	0.000
04:30 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000
05:00 - 05:30	0	0	0.000	0	0	0.000	0	0	0.000
05:30 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000
06:00 - 06:30	2	5722	0.009	2	5722	0.044	2	5722	0.053
06:30 - 07:00	2	5722	0.017	2	5722	0.009	2	5722	0.026
07:00 - 07:30	4	5337	0.014	4	5337	0.014	4	5337	0.028
07:30 - 08:00	4	5337	0.037	4	5337	0.028	4	5337	0.065
08:00 - 08:30	4	5337	0.019	4	5337	0.033	4	5337	0.052
08:30 - 09:00	4	5337	0.028	4	5337	0.042	4	5337	0.070
09:00 - 09:30	4	5337	0.033	4	5337	0.028	4	5337	0.061
09:30 - 10:00	4	5337	0.037	4	5337	0.042	4	5337	0.079
10:00 - 10:30	4	5337	0.033	4	5337	0.019	4	5337	0.052
10:30 - 11:00	4	5337	0.066	4	5337	0.052	4	5337	0.118
11:00 - 11:30	4	5337	0.052	4	5337	0.052	4	5337	0.104
11:30 - 12:00	4	5337	0.033	4	5337	0.023	4	5337	0.056
12:00 - 12:30	4	5337	0.014	4	5337	0.042	4	5337	0.056
12:30 - 13:00	4	5337	0.028	4	5337	0.023	4	5337	0.051
13:00 - 13:30	4	5337	0.023	4	5337	0.014	4	5337	0.037
13:30 - 14:00	4	5337	0.028	4	5337	0.023	4	5337	0.051
14:00 - 14:30	4	5337	0.033	4	5337	0.052	4	5337	0.085
14:30 - 15:00	4	5337	0.009	4	5337	0.005	4	5337	0.014
15:00 - 15:30	4	5337	0.019	4	5337	0.014	4	5337	0.033
15:30 - 16:00	4	5337	0.047	4	5337	0.028	4	5337	0.075
16:00 - 16:30	4	5337	0.019	4	5337	0.023	4	5337	0.042
16:30 - 17:00	4	5337	0.042	4	5337	0.014	4	5337	0.056
17:00 - 17:30	4	5337	0.028	4	5337	0.009	4	5337	0.037
17:30 - 18:00	4	5337	0.005	4	5337	0.005	4	5337	0.010
18:00 - 18:30	4	5337	0.009	4	5337	0.000	4	5337	0.009
18:30 - 19:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
19:00 - 19:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
19:30 - 20:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
20:00 - 20:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
20:30 - 21:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
21:00 - 21:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
21:30 - 22:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
22:00 - 22:30	0	0	0.000	0	0	0.000	0	0	0.000
22:30 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000
23:00 - 23:30	0	0	0.000	0	0	0.000	0	0	0.000
23:30 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000
Daily Trip Rates:			0.682				0.638	1.320	

Parameter summary

Trip rate parameter range selected:	4233 - 7211 (units: sqm)
Survey date date range:	01/01/98 - 16/06/06
Number of weekdays (Monday-Friday):	4
Number of Saturdays:	0
Number of Sundays:	0
Optional parameters used in selection:	NO
Surveys manually removed from selection:	0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
Category : D - INDUSTRIAL ESTATE

MULTI-MODAL CYCLISTSSelected regions and areas:

05	EAST MIDLANDS	
	LN LINCOLNSHIRE	1 days
08	NORTH WEST	
	LC LANCASHIRE	1 days
11	SCOTLAND	
	ER EAST RENFREWSHIRE	2 days

Main parameter selection:

Parameter: Gross floor area
Range: 4233 to 7211 (units: sqm)

Date Range: 01/01/98 to 16/06/06

Selected survey days:

Wednesday	2 days
Thursday	1 days
Friday	1 days

Selected survey types:

Manual count	4 days
Directional ATC Count	0 days

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE

MULTI-MODAL CYCLISTS**Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30	0	0	0.000	0	0	0.000	0	0	0.000
00:30 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000
01:00 - 01:30	0	0	0.000	0	0	0.000	0	0	0.000
01:30 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000
02:00 - 02:30	0	0	0.000	0	0	0.000	0	0	0.000
02:30 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000
03:00 - 03:30	0	0	0.000	0	0	0.000	0	0	0.000
03:30 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000
04:00 - 04:30	0	0	0.000	0	0	0.000	0	0	0.000
04:30 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000
05:00 - 05:30	0	0	0.000	0	0	0.000	0	0	0.000
05:30 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000
06:00 - 06:30	2	5722	0.000	2	5722	0.000	2	5722	0.000
06:30 - 07:00	2	5722	0.000	2	5722	0.000	2	5722	0.000
07:00 - 07:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
07:30 - 08:00	4	5337	0.014	4	5337	0.000	4	5337	0.014
08:00 - 08:30	4	5337	0.005	4	5337	0.000	4	5337	0.005
08:30 - 09:00	4	5337	0.009	4	5337	0.000	4	5337	0.009
09:00 - 09:30	4	5337	0.009	4	5337	0.005	4	5337	0.014
09:30 - 10:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
10:00 - 10:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
10:30 - 11:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
11:00 - 11:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
11:30 - 12:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
12:00 - 12:30	4	5337	0.005	4	5337	0.000	4	5337	0.005
12:30 - 13:00	4	5337	0.005	4	5337	0.014	4	5337	0.019
13:00 - 13:30	4	5337	0.014	4	5337	0.009	4	5337	0.023
13:30 - 14:00	4	5337	0.009	4	5337	0.000	4	5337	0.009
14:00 - 14:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
14:30 - 15:00	4	5337	0.000	4	5337	0.000	4	5337	0.000
15:00 - 15:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
15:30 - 16:00	4	5337	0.009	4	5337	0.019	4	5337	0.028
16:00 - 16:30	4	5337	0.005	4	5337	0.009	4	5337	0.014
16:30 - 17:00	4	5337	0.005	4	5337	0.000	4	5337	0.005
17:00 - 17:30	4	5337	0.005	4	5337	0.023	4	5337	0.028
17:30 - 18:00	4	5337	0.000	4	5337	0.005	4	5337	0.005
18:00 - 18:30	4	5337	0.000	4	5337	0.000	4	5337	0.000
18:30 - 19:00	4	5337	0.000	4	5337	0.014	4	5337	0.014
19:00 - 19:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
19:30 - 20:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
20:00 - 20:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
20:30 - 21:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
21:00 - 21:30	1	7211	0.000	1	7211	0.000	1	7211	0.000
21:30 - 22:00	1	7211	0.000	1	7211	0.000	1	7211	0.000
22:00 - 22:30	0	0	0.000	0	0	0.000	0	0	0.000
22:30 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000
23:00 - 23:30	0	0	0.000	0	0	0.000	0	0	0.000
23:30 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000
Daily Trip Rates:			0.094				0.098		

Parameter summary

Trip rate parameter range selected:	4233 - 7211 (units: sqm)
Survey date date range:	01/01/98 - 16/06/06
Number of weekdays (Monday-Friday):	4
Number of Saturdays:	0
Number of Sundays:	0
Optional parameters used in selection:	NO
Surveys manually removed from selection:	0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT

Category : F - WAREHOUSING (COMMERCIAL)

VEHICLESSelected regions and areas:**01 GREATER LONDON**

EG EALING

1 days

06 WEST MIDLANDS

WO WORCESTERSHIRE

1 days

Main parameter selection:

Parameter: Gross floor area

Range: 1045 to 3824 (units: sqm)

Date Range: 01/01/91 to 10/09/02

Selected survey days:

Tuesday

2 days

Selected survey types:

Manual count

2 days

Directional ATC Count

0 days

LIST OF SITES relevant to selection parameters

- | | | | |
|----------|-------------------------|-------------------------|-----------------------|
| 1 | EG-02-F-15 | MILUPA, EALING | EALING |
| | DERBY ROAD | | |
| | GREENFORD | | |
| | EALING | | |
| | Total Gross floor area: | 1045 | sqm |
| 2 | WO-02-F-02 | ARROW, WORCESTER | WORCESTERSHIRE |
| | COTSWOLD WAY | | |
| | WORCESTER | | |
| | Total Gross floor area: | 3824 | sqm |

TRIP RATE for Land Use 02 - EMPLOYMENT/F - WAREHOUSING (COMMERCIAL)

VEHICLES**Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 00:30	0	0	0.000	0	0	0.000	0	0	0.000
00:30 - 01:00	0	0	0.000	0	0	0.000	0	0	0.000
01:00 - 01:30	0	0	0.000	0	0	0.000	0	0	0.000
01:30 - 02:00	0	0	0.000	0	0	0.000	0	0	0.000
02:00 - 02:30	0	0	0.000	0	0	0.000	0	0	0.000
02:30 - 03:00	0	0	0.000	0	0	0.000	0	0	0.000
03:00 - 03:30	0	0	0.000	0	0	0.000	0	0	0.000
03:30 - 04:00	0	0	0.000	0	0	0.000	0	0	0.000
04:00 - 04:30	0	0	0.000	0	0	0.000	0	0	0.000
04:30 - 05:00	0	0	0.000	0	0	0.000	0	0	0.000
05:00 - 05:30	0	0	0.000	0	0	0.000	0	0	0.000
05:30 - 06:00	0	0	0.000	0	0	0.000	0	0	0.000
06:00 - 06:30	0	0	0.000	0	0	0.000	0	0	0.000
06:30 - 07:00	0	0	0.000	0	0	0.000	0	0	0.000
07:00 - 07:30	2	2435	0.082	2	2435	0.103	2	2435	0.185
07:30 - 08:00	2	2435	0.267	2	2435	0.185	2	2435	0.452
08:00 - 08:30	2	2435	0.616	2	2435	0.123	2	2435	0.739
08:30 - 09:00	2	2435	0.123	2	2435	0.062	2	2435	0.185
09:00 - 09:30	2	2435	0.205	2	2435	0.041	2	2435	0.246
09:30 - 10:00	2	2435	0.123	2	2435	0.185	2	2435	0.308
10:00 - 10:30	2	2435	0.123	2	2435	0.062	2	2435	0.185
10:30 - 11:00	2	2435	0.103	2	2435	0.082	2	2435	0.185
11:00 - 11:30	2	2435	0.021	2	2435	0.103	2	2435	0.124
11:30 - 12:00	2	2435	0.041	2	2435	0.082	2	2435	0.123
12:00 - 12:30	2	2435	0.062	2	2435	0.082	2	2435	0.144
12:30 - 13:00	2	2435	0.062	2	2435	0.103	2	2435	0.165
13:00 - 13:30	2	2435	0.246	2	2435	0.513	2	2435	0.759
13:30 - 14:00	2	2435	0.370	2	2435	0.103	2	2435	0.473
14:00 - 14:30	2	2435	0.205	2	2435	0.082	2	2435	0.287
14:30 - 15:00	2	2435	0.062	2	2435	0.123	2	2435	0.185
15:00 - 15:30	2	2435	0.103	2	2435	0.082	2	2435	0.185
15:30 - 16:00	2	2435	0.041	2	2435	0.041	2	2435	0.082
16:00 - 16:30	2	2435	0.082	2	2435	0.123	2	2435	0.205
16:30 - 17:00	2	2435	0.041	2	2435	0.205	2	2435	0.246
17:00 - 17:30	2	2435	0.103	2	2435	0.616	2	2435	0.719
17:30 - 18:00	2	2435	0.041	2	2435	0.329	2	2435	0.370
18:00 - 18:30	2	2435	0.041	2	2435	0.123	2	2435	0.164
18:30 - 19:00	2	2435	0.021	2	2435	0.123	2	2435	0.144
19:00 - 19:30	0	0	0.000	0	0	0.000	0	0	0.000
19:30 - 20:00	0	0	0.000	0	0	0.000	0	0	0.000
20:00 - 20:30	0	0	0.000	0	0	0.000	0	0	0.000
20:30 - 21:00	0	0	0.000	0	0	0.000	0	0	0.000
21:00 - 21:30	0	0	0.000	0	0	0.000	0	0	0.000
21:30 - 22:00	0	0	0.000	0	0	0.000	0	0	0.000
22:00 - 22:30	0	0	0.000	0	0	0.000	0	0	0.000
22:30 - 23:00	0	0	0.000	0	0	0.000	0	0	0.000
23:00 - 23:30	0	0	0.000	0	0	0.000	0	0	0.000
23:30 - 24:00	0	0	0.000	0	0	0.000	0	0	0.000
Total Rates:			3.184				3.676		
							6.860		

Parameter summary

Trip rate parameter range selected:	1045 - 3824 (units: sqm)
Survey date date range:	01/01/91 - 10/09/02
Number of weekdays (Monday-Friday):	2
Number of Saturdays:	0
Number of Sundays:	0
Optional parameters used in selection:	NO
Surveys manually removed from selection:	0

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 14 - CAR SHOW ROOMS

Category : A - CAR SHOW ROOMS

VEHICLESSelected regions and areas:**10 WALES**

WR WREXHAM

1 days

Main parameter selection:

Parameter: Gross floor area

Range: 1450 to 1450 (units: sqm)

Date Range: 01/01/99 to 02/07/04

Selected survey days:

Friday

1 days

Selected survey types:

Manual count

1 days

Directional ATC Count

0 days

LIST OF SITES relevant to selection parameters

1	WR-14-A-01	FORD, NEAR WREXHAM	WREXHAM
	WREXHAM ROAD		
	RHOSTYLLEN		
	NEAR WREXHAM		
	Total Gross floor area:	1450	sqm

TRIP RATE for Land Use 14 - CAR SHOW ROOMS/A - CAR SHOW ROOMS

VEHICLES**Calculation factor: 100 sqm****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	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	0	0	0.000	0	0	0.000	0	0	0.000
08:00 - 09:00	1	1450	1.448	1	1450	0.552	1	1450	2.000
09:00 - 10:00	1	1450	1.586	1	1450	1.448	1	1450	3.034
10:00 - 11:00	1	1450	1.310	1	1450	1.310	1	1450	2.620
11:00 - 12:00	1	1450	0.759	1	1450	0.828	1	1450	1.587
12:00 - 13:00	1	1450	0.690	1	1450	0.759	1	1450	1.449
13:00 - 14:00	1	1450	1.379	1	1450	1.241	1	1450	2.620
14:00 - 15:00	1	1450	0.897	1	1450	1.034	1	1450	1.931
15:00 - 16:00	1	1450	1.931	1	1450	1.241	1	1450	3.172
16:00 - 17:00	1	1450	1.448	1	1450	2.414	1	1450	3.862
17:00 - 18:00	1	1450	0.276	1	1450	0.966	1	1450	1.242
18:00 - 19:00	1	1450	0.207	1	1450	0.621	1	1450	0.828
19:00 - 20:00	1	1450	0.000	1	1450	0.000	1	1450	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:			11.931				12.414	24.345	

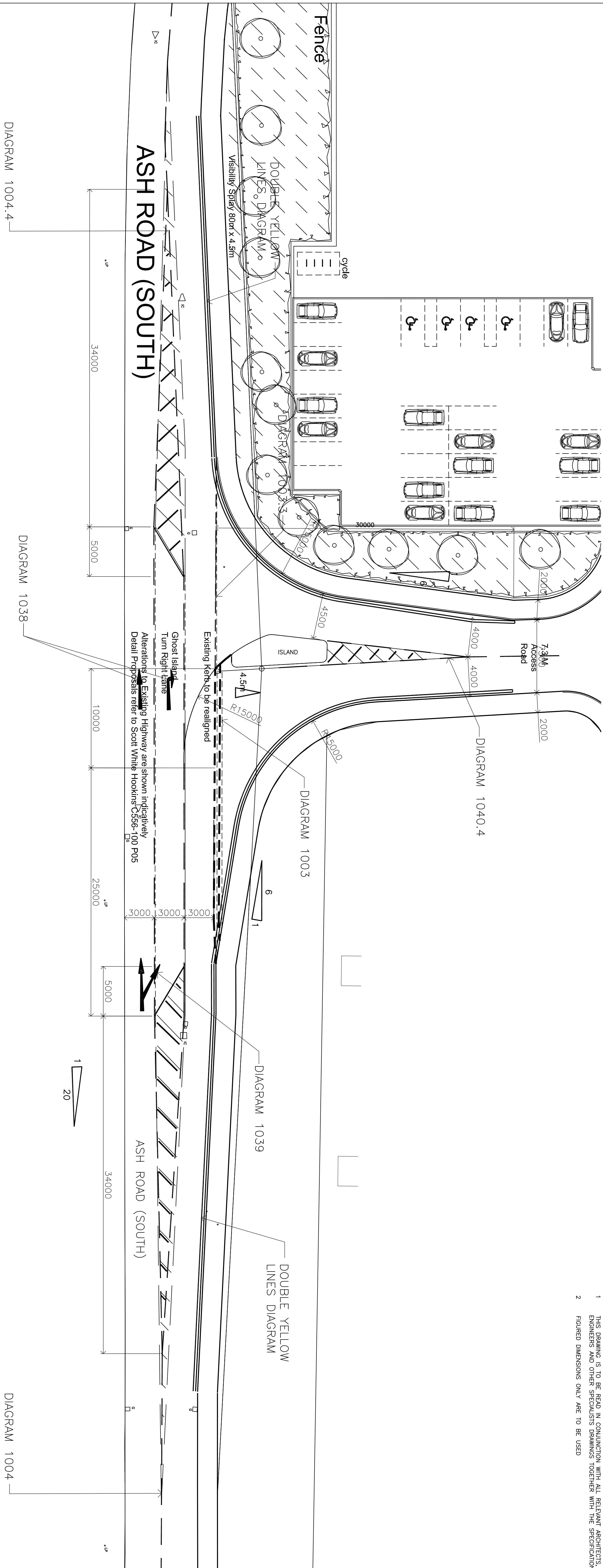
Parameter summary

Trip rate parameter range selected: 1450 - 1450 (units: sqm)
 Survey date date range: 01/01/99 - 02/07/04
 Number of weekdays (Monday-Friday): 1
 Number of Saturdays: 0
 Number of Sundays: 0
 Optional parameters used in selection: NO
 Surveys manually removed from selection: 0

APPENDIX ‘C’
Junction layout drawings

Notes

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS,
ENGINEERS AND OTHER SPECIALISTS DRAWINGS TOGETHER WITH THE SPECIFICATION.
FIGURED DIMENSIONS ONLY ARE TO BE USED



P01	PRELIMINARY ISSUE	DW	DAC
Rev.	Amendment	Dm.	Chkd. Appd. Date

**BUSINESS DEVELOPMENT
ASH ROAD (SOUTH)
WREXHAM**

ROAD MARKING LAYOUT

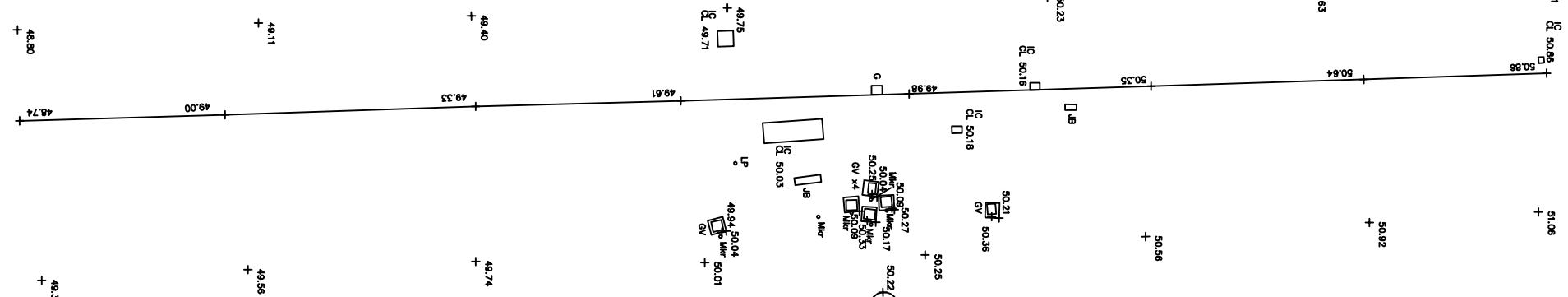
EUROPEAN SHEETING UK LTD

 SCOTT-WHITE & HOOKINS www.swh.co.uk	Scale	1:200	at A1
	Drawing No.	C556-101	Rev. P01

London House
Tel: +44 (0)20 8773 3131

42 West Street Carshalton Surrey SM5 2P
Fax: +44 (0)20 8773 2605
Email: car@swf.co.uk

DO NOT SCALE FROM THIS DRAWING



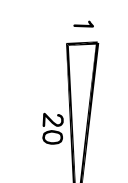
P05	LANGUT MENDED	CM	DMC	DMC	7766.07
P04	AMBIKONEN MADE TO VISIBILITY SPRAY AND ROAD	JMS	MJM	DMC	10.04.07
P03	1 NO. VISIBILITY SPRAY REQUIRED TO 5.5m x 120m	JMS	JMS	DMC	11.01.07
P02	DRAWING SHEET SIZE CHANGED TO A0.	JMS	JMS	DMC	07.11.06
P01	80FT LINES ADDED	JMS	MJM	DMC	07.11.06
PLAN	PLANNING	JMS	JMS	DMC	31.11.06
REV	Amendment	DM	CM	DM	31.11.06

**BUSINESS DEVELOPMENT
ASH ROAD (SOUTH)
WREXHAM**

JUNCTION LAYOUT

EUROPEAN SHEETING UK LTD

SW&H SCOTT-WHITE & HOOKINS www.swh.co.uk	Scale	1:250	at A0
	Drawing No.	C566-100	Rev. P05
London House Tel: +44 (0)20 8773 1131	42 West Street For: +44 (0)20 8773 2005	Carshalton Surrey	SM5 2PP Email: csh@swh.co.uk



**BUSINESS DEVELOPMENT
ASH ROAD (SOUTH)
WREXHAM**

EUROPEAN SHEETING UK LTD

 SCOTT—WHITE & HOOKINS WWW.SWH.CO.UK	Scale	1:250	at A0
	Drawing No.	C556-102	
London House Tel: 0204 0020 8773 3131	42 West Street Carshalton Surrey SM5 2PR Email: enquiries@sw.co.uk	Fax: 0204 0020 8773 3005	CATERING

APPENDIX ‘D’
Traffic Speed Survey Results

SPEED MEASUREMENT FIELD SHEET

Survey No. **C556**

Date **March 20 2007**
.....

Job Name **C556**

Day **TUESDAY**

Road No. **Ash Road South**

Time **08:45 - 11:15**

Location Wrexham Industrial Estate

Direction	Northbound
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

85 th PERCENTILE **3 9 M. P. H.**

Weather	Dry - Sunny
	[Excellent Visibility]

85TH PERCENTILE WET WEATHER SPEED

M. P. H.

[illegible]

SPEED MEASUREMENT FIELD SHEET

Survey No. C556

Date **March 20 2007**
.....

Job Name C556

Day **TUESDAY**

Road No. **Ash Road South**

Time **08:45 - 11:15**

Location **Wrexham Industrial Estate**

Direction **Southbound**

85 th PERCENTILE **3 9 M. P. H.**

Weather	Dry - Sunny
	[Excellent Visibility]

85TH PERCENTILE WET WEATHER SPEED

M. P. H.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		1	2	3	4	5	6	7	8	9	10	11	12	13	15	16	17	18	19	20
10																					50																			
11																					51																			
12																					52																			
13																					53																			
14																					54																			
15																					55																			
16																					56																			
17																					57																			
18																					58																			
19																					59																			
20																					60																			
21																					61																			
22	X																				62																			
23	X	X	X	X																	63																			
24	X	X	X	X	X																64																			
25	X	X	X																		65																			
26	X	X																			66																			
27	X	X	X	X																	67																			
28	X	X	X	X	X	X	X	X	X												68																			
29	X	X	X																		69																			
30	X	X	X	X																	70																			
31	X	X	X																		71																			
32	X	X	X	X	X	X															72																			
33	X																				73																			
34	X	X	X																		74																			
35	X	X	X																		75																			
36	X	X	X	X	X	X															76																			
37	X	X																			77																			
38	X	X	X																		78																			
39	X	X																			79																			
40	X	X																			80																			
41	X	X	X	X	X																81																			
42	X	X																			82																			
43																					83																			
44	X																				84																			
45	X																				85																			
46																					86																			
47																					87																			
48																					88																			
49																					89																			