



Tesco Store, Culverhouse Cross, Cardiff

Transport Statement

Store Reconfiguration and Garden Centre

Prepared For:
Tesco

Report Prepared By:
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Project Number: 6913

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Tesco Store at Culverhouse Cross, Cardiff

Transport Statement for Reconfiguration and Garden Centre

1.0 Introduction and Purpose of Report

Bay Associates (as part of the HLN Group) were appointed by Tesco to undertake an assessment of the potential impact from a proposed reconfiguration of the existing store and the creation of a new garden centre on the existing Culverhouse Cross Store and Local Highway Network.

The objectives are to report on the following topics and confirm the post-development impact:

- Existing and proposed **access/egress arrangements** routes to/from the **local highway network**
- Existing and proposed **internal and access/egress arrangements** to/from the **store**
- Existing and proposed **car parking** arrangements at the store
- Existing and proposed **servicing** arrangements at the store

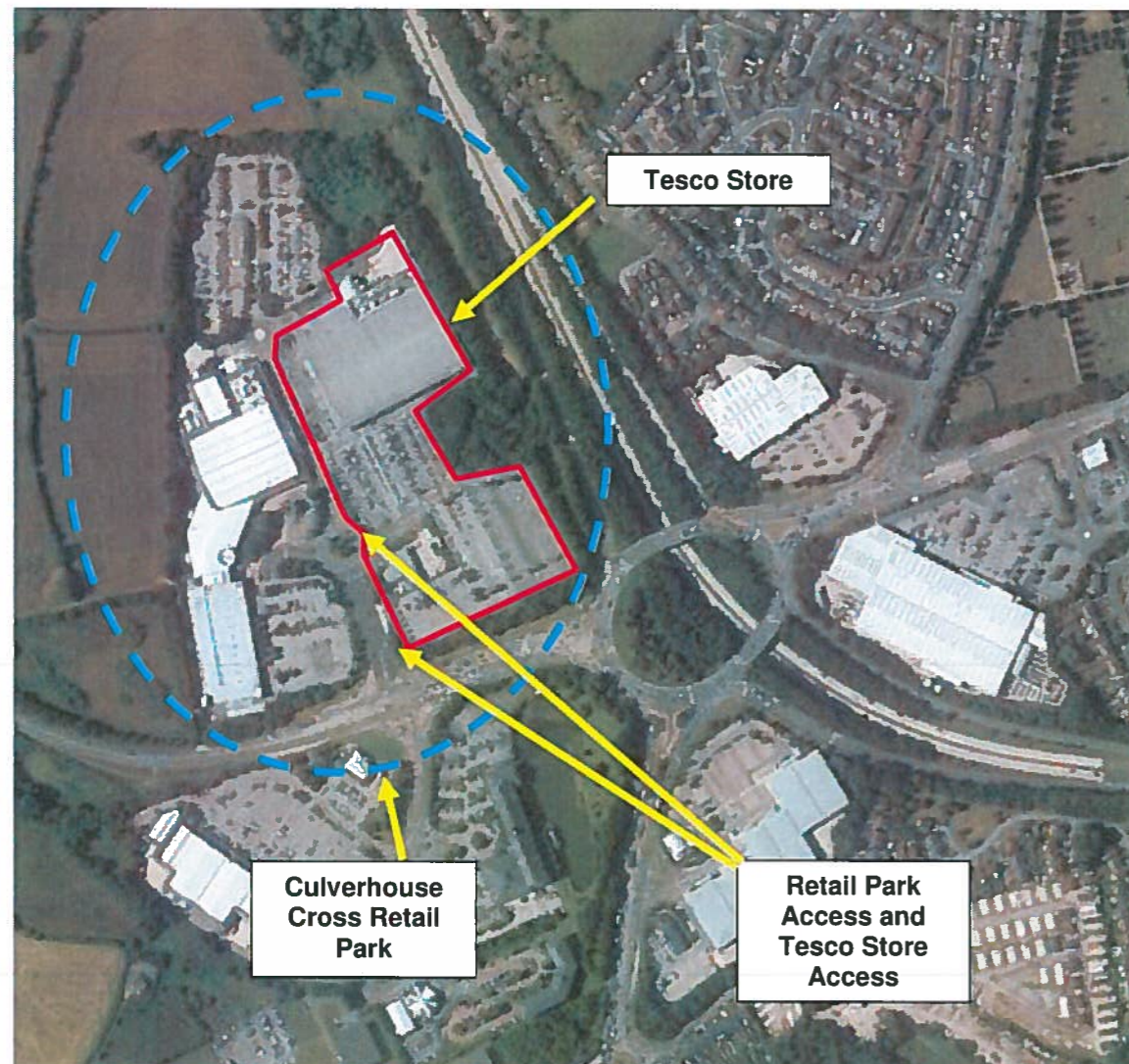


Fig 1.0 - Location of Tesco Culverhouse Cross store in relation to the local highway network

The planning application description for the proposed development is as follows:

Extension to existing retail store to form new garden centre with ancillary cafe and play area (A1 use) in addition to new restaurant (A3 use) with outdoor seating area and internal reconfiguration and reduction in floorspace of existing store to incorporate D1/D2 uses with associated adjustment/reduction to car parking, additional servicing arrangements, new covered walkway, relocated ATM and trolley storage and ancillary works.

The planning application form contains a summary of the existing and proposed development areas and is presented below:

19. All Types of Development: Non-residential Floorspace				
Does your proposal involve the loss, gain or change of use of non-residential floorspace? <input checked="" type="radio"/> Yes <input type="radio"/> No				
Use class/type of use	Existing gross internal floorspace (square metres)	Gross internal floorspace to be lost by change of use or demolition (square metres)	Total gross new internal floorspace proposed (including changes of use) (square metres)	Net additional gross internal floorspace following development (square metres)
A1	Shops Net Tradable Area	13,607	625.0	796.0
A2	Financial and professional services	0.0	0.0	0.0
A3	Restaurants and cafes	0.0	0.0	325.0
B1 (c)	Light industrial	0.0	0.0	0.0

19. All Types of Development: Non-residential Floorspace (continued)				
B2	General industrial	0.0	0.0	0.0
B8	Storage or distribution	0.0	0.0	0.0
C1	Hotels and halls of residence	0.0	0.0	0.0
C2	Residential institutions	0.0	0.0	0.0
D1	Non-residential institutions	0.0	0.0	0.0
D2	Assembly and leisure	0.0	0.0	0.0
OTHER	Please specify	0.0	0.0	300.0
	Total	13,607	625.0	1421.0

For hotels, residential institutions and hostels, please additionally indicate the loss or gain of rooms:

Use Class	Types of use	Existing rooms to be lost by change of use or demolition	Total rooms proposed (including changes of use)	Net additional rooms
C1	Hotels	0	0	0
C2	Residential institutions	0	0	0
Other	Hostels	0	0	0

The existing and proposed store layouts are included in Appendix A

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2.0 Store Access and Egress Arrangements

The store is currently accessed by vehicles from the major four armed signal controlled junction at Culverhouse Cross on the A48. This is closely linked to the signal controlled roundabout junction above the A4232. Figure 2.1 shows the immediate local highway network and in-bound routes.

All traffic entering the store from the east (Cardiff-direction) passes from various in-bound roads, through the roundabout junction and directly in to the two long right-hand turn lanes, which serve the retail park, which includes the Tesco store. All traffic entering the store from the west (Vale of Glamorgan direction) will pass along the A48, on to the traffic signal junction at Culverhouse Cross and into the retail park via a short left-turn slip lane.

Traffic leaving the Tesco Store and the Retail Park will follow the main Retail Park spine road towards the traffic signal junction.

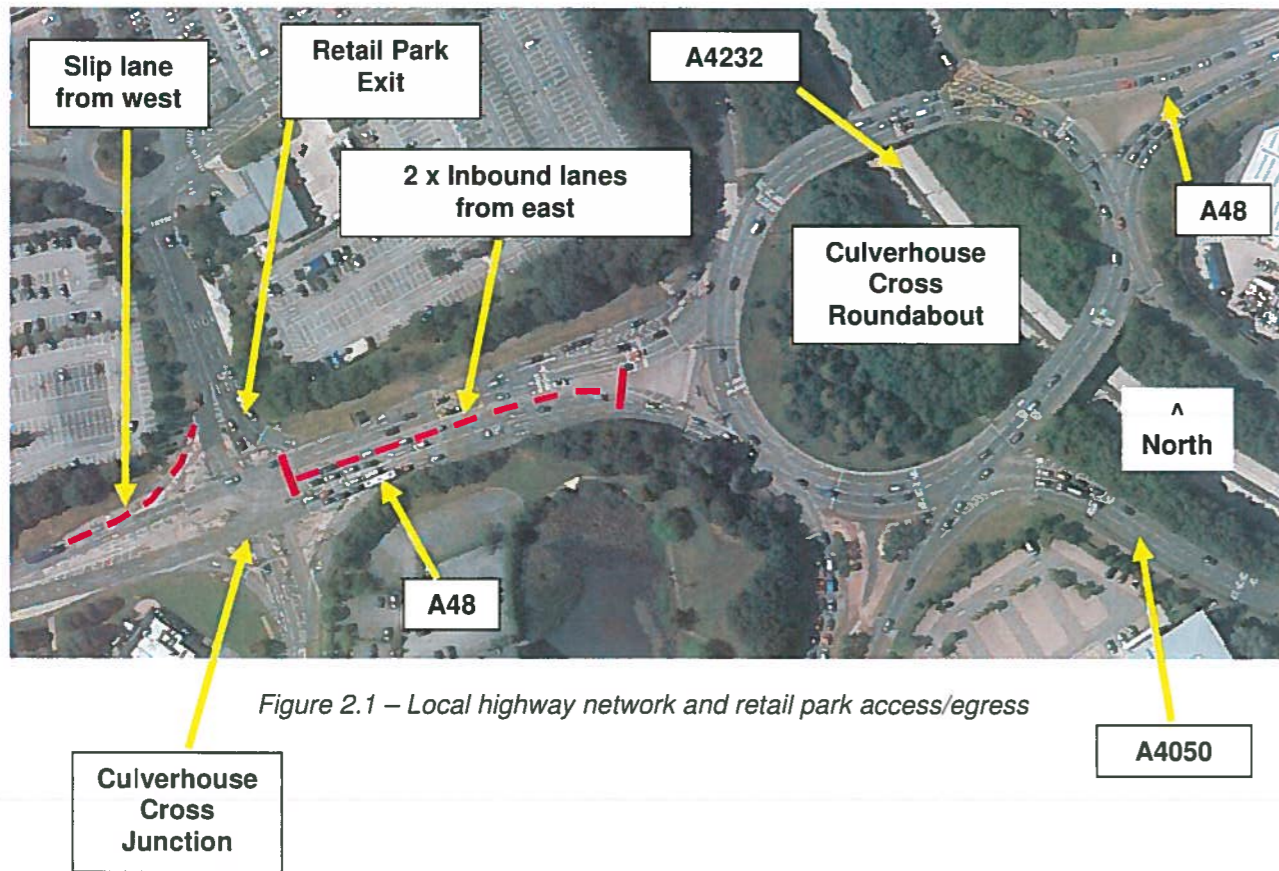


Figure 2.1 – Local highway network and retail park access/egress

Figure 2.2 shows the internal retail park traffic movements. Once traffic has entered the main retail park spine road it has the opportunity to turn left or go straight on for Marks & Spencer or turn right for the Tesco Store. Once turned right traffic is able to move along the main car park spine road and into several car park aisles on both sides of the car park spine road. There is also an opportunity to enter the petrol filling station.



Figure 2.2 – Retail park access/egress

Service vehicles follow the same path into the Retail Park, along the retail park spine road, which is shown on Figure 2.3

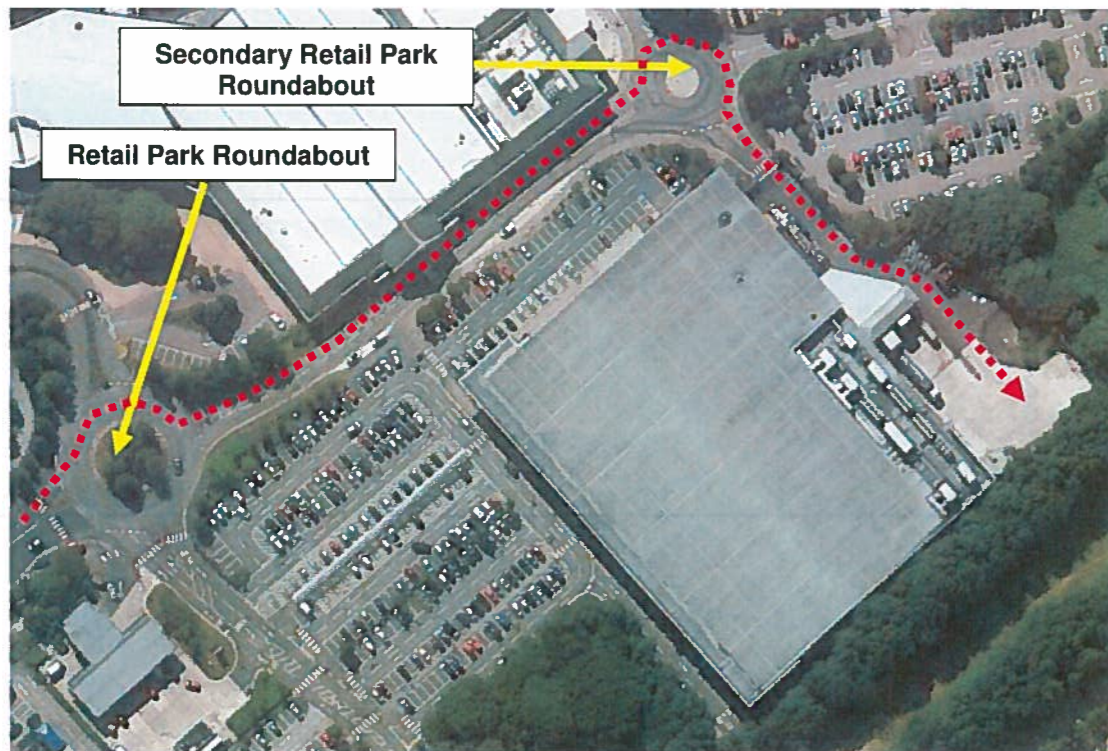


Figure 2.3 – Tesco service yard access

3.0 Local Highway

The Culverhouse Cross signal controlled junction is one of the major junctions in the County and has been subject to careful consideration and improvement by the Local Authority for some time. It is often the subject of analysis in traffic assessments for major planning applications throughout the Vale of Glamorgan.

It is understood that the Culverhouse Cross Junction is owned by the Vale of Glamorgan Council (VOG) but operated and maintained by Cardiff City Council (CCC) as part of the wider linked junction with the Culverhouse Cross Roundabout above the A4232.

The signal junction was upgraded in 2004 as part of the Marks & Spencer (M&S) development. Since then the M&S and Tesco developments have been extended and traffic generally. In a meeting held in April 2014 CCC highways stated that in recent times the junction traffic has slightly eased, possibly due to the shopping traffic being directed to other local shopping destinations such as Leckwith Retail Park and the St David's 2 shopping centre. Also VOG stated that the recent upgrade of the next major junction towards the west at Sycamore Cross is now potentially acting as a flow control/relief for Culverhouse Cross for traffic approaching from the west.

In a meeting in April 2014 with VOG and CCC it was reported that both Local Authorities are generally content with the current operation of the signal junction, considering the current traffic levels. CCC are happy with the current signal equipment operation and confirmed that there are no current faults. VOG stated that generally they do not generally receive complaints about the junction operation, which would be the major indicator that something is wrong or malfunctioning in terms of highway layout, signage or signal/systems operation.



The impact on the local highway network from the proposed development is expected to be minimal. In recent times, the number of customer trips to/from the Tesco Store has reduced through decreased activity and will partly be replaced by those visiting the proposed new retail activities at the store. This is explored further in Section 7.0 of this report.

It is understood that the Culverhouse Cross traffic signal junction is currently operating satisfactorily and the junction layout has effectively been maximized (within the constraints) in terms of access and egress provision to the Culverhouse Retail Park, with full consideration for through traffic. During recent observation surveys the signal controls were seen to be managing the traffic effectively and minimising delays to vehicles accessing the retail park and access/egress in general. The signal junction operates on an automatically adaptable signaling system ("SCOOT") and as such is able to manage variations in traffic flow and demand to suit the requirements at a particular time of day. No signal system amendments are required or proposed.

Access to and from the Culverhouse Cross Retail Park will remain as per the current situation, which includes vehicular access, public transport provision and pedestrian links. No off-site junction amendments are required or proposed.

The proposed retail activities at the store will result in longer duration visits to the store and a lesser car trip turnover, which is a reduction of the normal high turnover rate of the normal supermarket. This results in a fewer number of trips per day compared to the full potential of the current store.

4.0 Existing Use – Derivation of Potential Vehicular Trips

The site is currently in use wholly as a Tesco food superstore with an existing 13,607sqm GFA; this includes ancillary cafe, office and welfare area.

In order to understand the existing traffic generating characteristics of the site, the TRICS database has been interrogated based on the following criteria:

- Land use categories – Food Superstore;
- Sites from England and Wales only (excluding greater London) and use of Post 2000 data only;
- Average trip rates per 100sqm GFA;
- Data analysis range – Weekday and Saturday

The results of this analysis are illustrated in **Table 4.1** below, with a copy of the TRICS output data attached as **Appendix D**

TESCO GFA **13607 sqm**

Weekday

Time	Trip Rate (per unit)			Traffic Flows (per unit)		
	Arrivals	Departures	trip rate	Arrivals	Departures	Trips
0800-0900	2.862	2.049	4.911	389	279	668
1700-1800	5.235	5.383	10.618	712	732	1445
Daily	60.323	59.98	120.303	8208	8161	16370

Saturday

1100-1200	6.702	6.202	12.904	912	844	1756
Daily	66.522	66.695	133.217	9052	9075	18127

Table 4.1 – Summary of TRICS data – Food Superstore

5.0 Proposed Use – Traffic Analysis

As described in Chapter 3 of this report, it is proposed to reduce the food superstore GFA and replace with a garden centre and a restaurant.

In order to understand the potential future traffic generating characteristics of the site, the TRICS database has been interrogated based on the following criteria:

- Land use category – Food Superstore, Garden Centre and Restaurants;
- Reduced Food Superstore size **11,532sqm** GFA;
- Proposed Garden Centre size **2787sqm** GFA;
- Proposed Restaurant size **325sqm** GFA;
- Sites from England and Wales only (excluding greater London) and Post 2000 data only;
- Average trip rates per 100sqm GFA
- Data analysis range – all available.

The results of this analysis are illustrated in **Table 5.1, 5.2 and 5.3** below, with a copy of the TRICS output data attached as **Appendix D**.

TESCO GFA	11532 sqm					
Weekday						
Time	Trip Rate (per unit)			Traffic Flows (per unit)		
	Arrivals	Departures	trip rate	Arrivals	Departures	Trips
0800-0900	2.862	2.049	4.911	330	236	566
1700-1800	5.235	5.383	10.618	604	621	1224
Daily	60.323	59.98	120.303	6956	6917	13873
Saturday						
1100-1200	6.702	6.202	12.904	773	715	1488
Daily	66.522	66.695	133.217	7671	7691	15363

Table 5.1 – Summary of TRICS data – Food Superstore

Table 5.1 above illustrates that the Tesco with a GFA reduction of 2075sqm will generate approximately 13,873 two-way weekday daily trips and 15,363 Saturday daily trips.

During the sensitive weekday peak hours, the proposed reduced Tesco store size will result in 566 two-way trips during the weekday AM peak hour and 1224 two-way trips during the weekday PM peak hour. During the Saturday peak hour the Tesco store can expect to generate 1488 two-way trips.

Dobbie GC 2787 sqm

Time	Trip Rate (per unit)			Traffic Flows (per unit)		
	Arrivals	Departures	trip rate	Arrivals	Departures	Trips
0800-0900	0.351	0.054	0.405	10	2	11
1700-1800	0.108	0.27	0.378	3	8	11
Daily	7.459	7.487	14.946	208	209	417

Saturday

1100-1200	0.894	0.818	1.712	25	23	48
Daily	6.032	6.029	12.061	168	168	336

Table 5.2 – Summary of TRICS data – Garden Centre

Table 5.2 above illustrates that the proposed garden centre will generate approximately 417 two-way weekday daily trips and 336 Saturday daily trips.

During the sensitive weekday peak hours, the proposed garden centre will result in 11 two-way trips during the weekday AM peak hour and 11 two-way trips during the weekday PM peak hour. During the Saturday peak hour the proposed garden centre can expect to generate 48 two-way trips.

Giraffe Restaurant 325 sqm

Time	Trip Rate (per unit)			Traffic Flows (per unit)		
	Arrivals	Departures	trip rate	Arrivals	Departures	Trips
0800-0900	0	0	0.000	0	0	0
1700-1800	1.805	1.901	3.706	6	6	12
Daily	23.368	23.146	46.514	76	75	151

Saturday

1100-1200	1.272	0.238	1.51	4	1	5
Daily	6.032	6.029	12.061	20	20	39

Table 5.3 – Summary of TRICS data – Restaurant

Table 5.3 above illustrates that the proposed garden centre will generate approximately 151 two-way weekday daily trips and 39 Saturday daily trips.

During the sensitive weekday peak hours, the proposed garden centre will result in 0 two-way trips during the weekday AM peak hour and 12 two-way trips during the weekday PM peak hour. During the Saturday peak hour the proposed garden centre can expect to generate 5 two-way trips.

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5.1 Theoretical Impact on the A48/Culverhouse Cross Junction

In order to understand the impact of the development on the local highway network it is necessary to understand the total new proposed trips from the redevelopment of the reduced Tesco store size and the proposed garden centre and restaurant. The total new trips are shown in **Table 5.4** below:

New Development Trip Total

	Time	Traffic Flows (per unit)		
		Arrivals	Departures	Trips
Weekday	0800-0900	340	238	578
	1700-1800	613	634	1247
	Daily	7240	7201	14441
Saturday	1100-1200	802	739	1541
	Daily	7859	7879	15738

Table 5.4 – Total New Trips

Table 5.4 above illustrates the Total New Trips this redevelopment will generate. It is now necessary to subtract the existing and/or previous land use traffic flow values from the proposed land use traffic flow values in order to determine the total new trips resultant of the proposed redevelopment i.e. **Table 5.4** minus **Table 4.1**.

Total new trips resultant of development are presented in **Table 5.5** below:

Total trip comparison between existing and proposed

	Time	Traffic Flows (per unit)		
		Arrivals	Departures	Trips
Weekday	0800-0900	-50	-41	-91
	1700-1800	-100	-98	-198
	Daily	-968	-961	-1929
Saturday	1100-1200	-110	-105	-215
	Daily	-1193	-1196	-2389

Table 5.5 – Proposed Traffic Flows minus Existing Traffic Flows

Table 5.5 shows that a redevelopment of the existing Tesco store as described above, in this location when compared to the existing land use would generate overall, a decrease in trips when the full retail potential of the existing Tesco store is considered.

Pass-by, Linked and Diverted trips have not been taken into account during the trip generation and traffic impact assessment of this redevelopment due to the natural overall decrease between the existing and proposed developments.

6.0 Store Parking

The current Tesco store has 726 parking spaces. In order to determine the current normal usage a detailed car parking survey was carried out on Saturday 17/05/14, which is considered a reasonably busy period during the week. The details of the survey are as follows:

- *Parking Beat survey (4 staff)*
- *Each survey zone counted at 15 minute intervals*
- *07:00-19:00 Survey duration*
- *A pre 07:00 and post 19:00 survey will also be completed to confirm the start numbers and end numbers*
- *A calculation of the number of bays in each zone will be completed prior to the survey start and what type of spaces they are i.e parent child/disabled etc*

The survey report is provided in Appendix C and includes:

- *Site parking zone plan*
- *Summary of parking spaces*
- *Survey results for each zone throughout the survey period*

During the peak 15 minute interval, the maximum number of cars in the car park was recorded as 385, which leaves 330 spaces unused out of the 715 spaces (726 -11 used for other means) throughout the car park as a whole. The average number of spaces used across the day was 277, but the normal peak average was 339 spaces in use.

The development proposals show a loss of 73 normal parking spaces. Considering the current large scale of the parking over-provision the loss of the 73 spaces is considered acceptable and will not adversely affect the operation of the car park or affect the local highway network. The additional parking requirements from the new retail activities is highly unlikely to utilise even half of the vacant post-development spaces.

7.0 Internal Access

Customer vehicular access in to and out of the retail park and the Tesco store car park will be unaltered from the current situation, which itself is considered satisfactory.

Refer to the existing and proposed site layout plans in Appendix A for details

8.0 Servicing

Servicing and delivery vehicles will continue to follow the same route through the Retail Park as the current Tesco Store. A small internal layout change to the existing servicing area is proposed to accommodate a delivery vehicle to serve the garden centre.

A vehicle tracking exercise has shown that the proposed additional servicing and deliveries will not affect the operation of the Tesco store and that an additional unloading space for the garden centre delivery vehicle can be accommodated without impeding service and delivery access to/from the Tesco Store. Turning will remain within the existing yard. The vehicle tracking paths are attached in Appendix B.

The reduction in the existing Tesco store area and corresponding deliveries will be replaced by those required by the garden centre, which will have a lower stock turnover than the Tesco store.

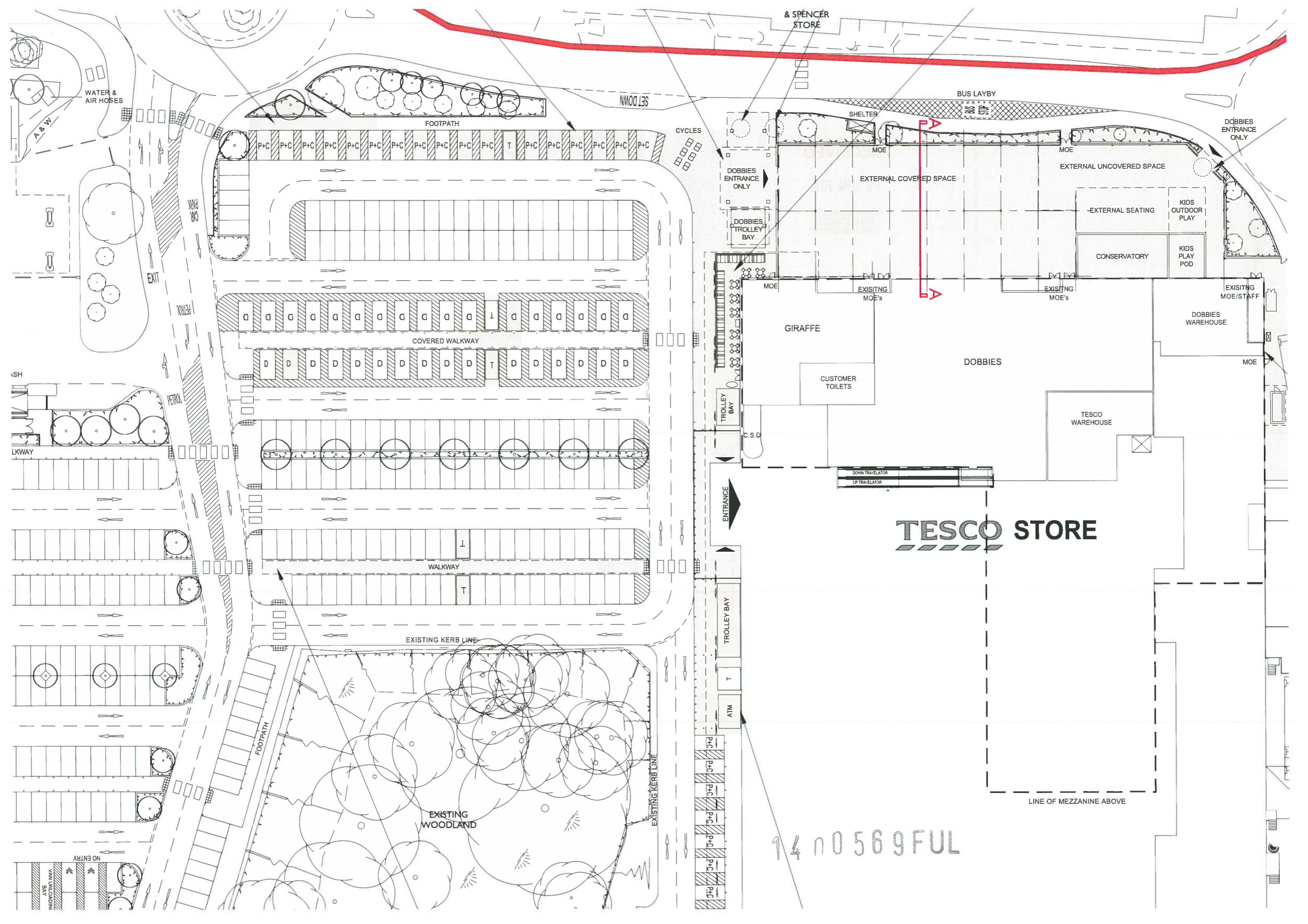
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9.0 Conclusions and Recommendations

- 9.1 Local Highway Impact: The impact on the local highway network is expected to be minimal. The recent reduced number of trips to/from the Tesco Store will effectively be replaced by those visiting the proposed new retail activities at the store. It is understood that the Culverhouse Cross traffic signal junction is currently operating satisfactorily and the junction layout has effectively been maximised in terms of access and egress provision to the Culverhouse Retail Park, with full consideration for through traffic. During recent observation surveys the signal controls were seen to be managing the traffic effectively and minimising delay to access and egress. Access to and from the Retail Park will remain as per the current situation, which includes vehicular, public transport and pedestrian links. The proposed retail activities at the store are likely to result in longer duration visits to the store and a lesser car trip turnover, which is a reduction of the turnover rate of a normal supermarket, which can result in a fewer number of trips per day compared to the full *potential* of the current store.
- 9.2 Store Parking Impact: A detailed car parking survey (Saturday 17/05/14 7:00 to 19:00) shows that there was a minimum of 326 unused spaces out of 726 spaces throughout the day across the car park as a whole. The development proposals show a loss of 73 normal parking spaces. Considering the scale of the parking over-provision the loss of the 73 spaces is considered acceptable. The additional parking requirements from the new retail activities is highly unlikely to utilise even half of the vacant post-development spaces.
- 9.3 Internal Access Impact: Customer vehicular access in to and out of the Tesco store car park will be unaltered from the current situation, which itself is considered satisfactory.
- 9.4 Servicing: Servicing and delivery vehicles will continue to follow the same route as the current Tesco Store. A small change to the existing servicing area is proposed to accommodate a delivery vehicle to serve the garden centre. A vehicle tracking exercise has shown that the proposed additional servicing and deliveries will not affect the operation of the Tesco store.

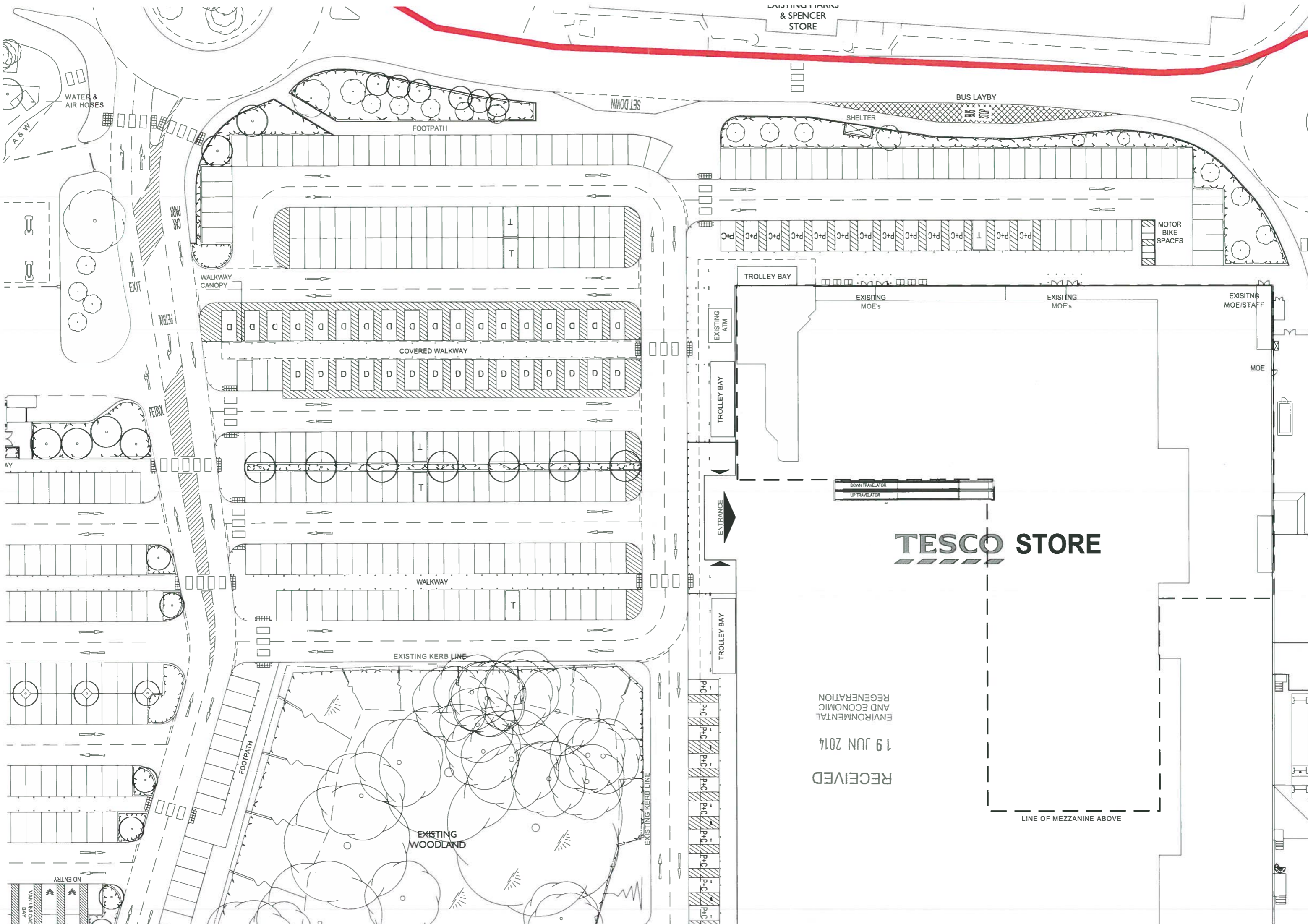
Appendix A – Existing and Proposed Site Layout Drawings

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TESCO STORE

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EXISTING PARK & SPENCER STORE

BUS LAYBY

SHELTER

FOOTPATH

SET DOWN

WATER & AIR HOSES

EXIT

WALKWAY CANOPY

COVERED WALKWAY

TROLLEY BAY

EXISTING MOE's

EXISTING MOE's

EXISTING MOE/STAFF

MOTOR BIKE SPACES

EXISTING ATM

TROLLEY BAY

ENTRANCE

DOWN TRAVELATOR
UP TRAVELATOR

TESCO STORE

TROLLEY BAY

EXISTING KERB LINE

RECEIVED
19 JUN 2014
ENVIRONMENTAL AND ECONOMIC
REGENERATION

LINE OF MEZZANINE ABOVE

EXISTING WOODLAND

EXISTING KERB LINE

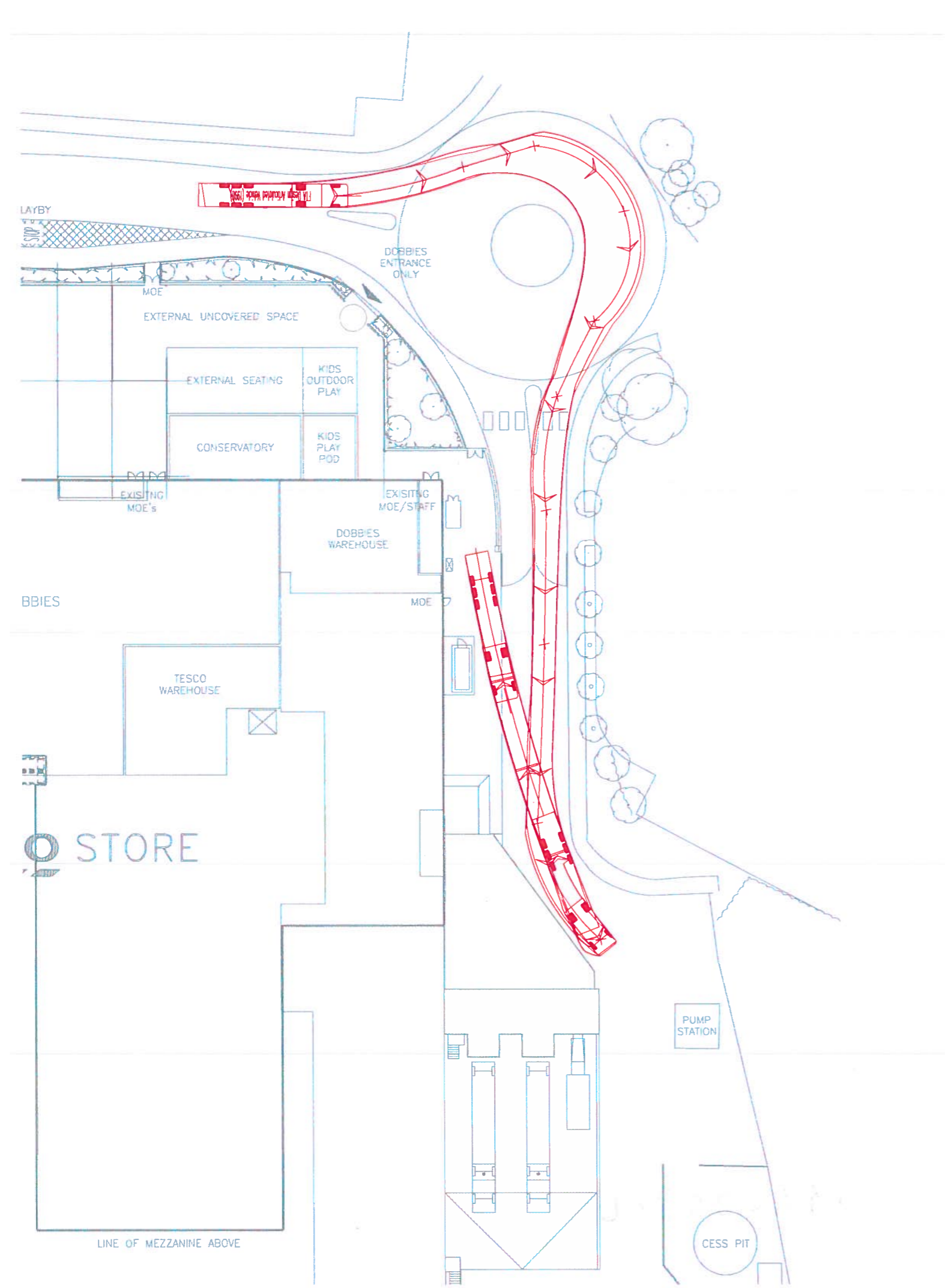
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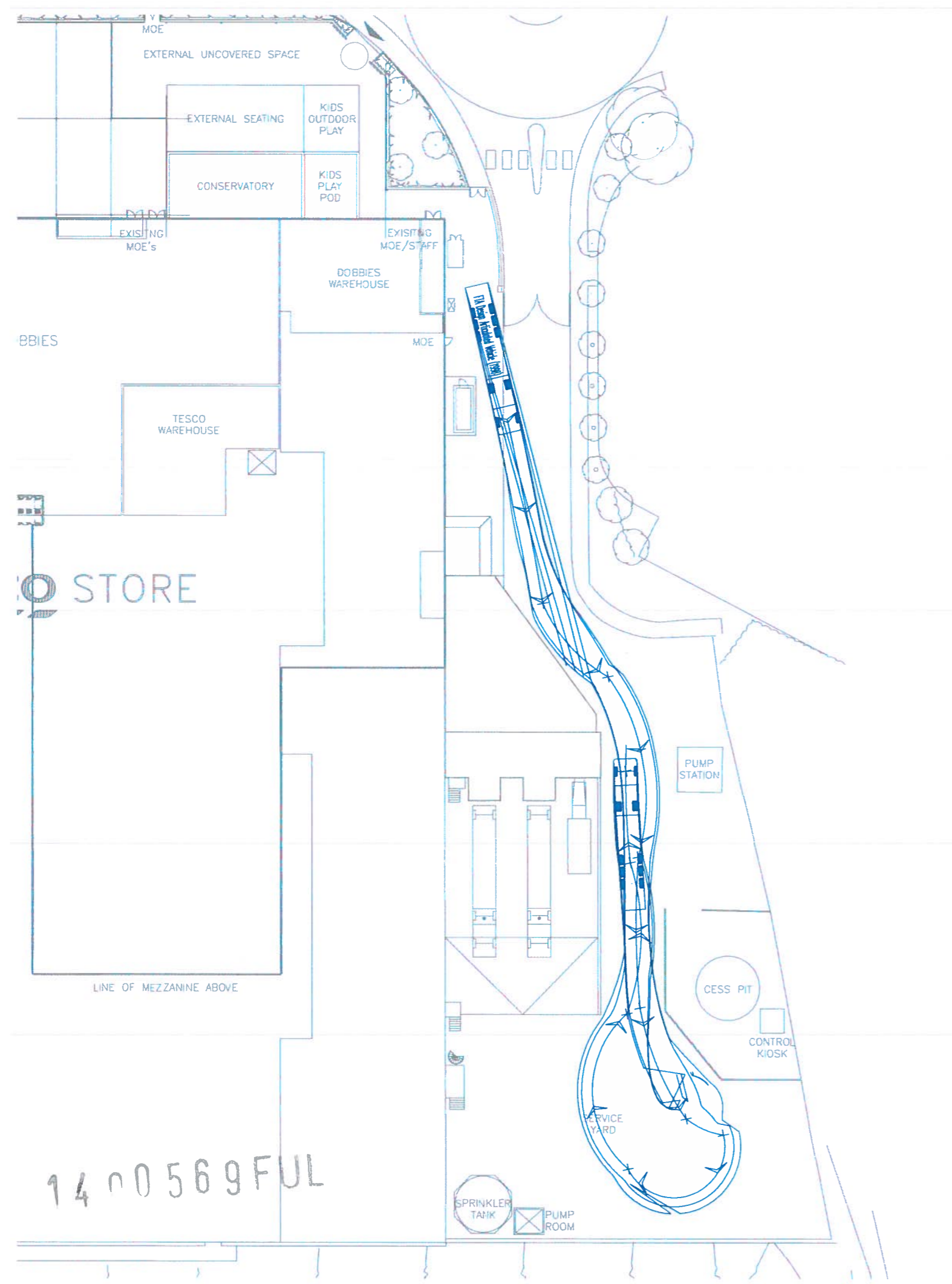
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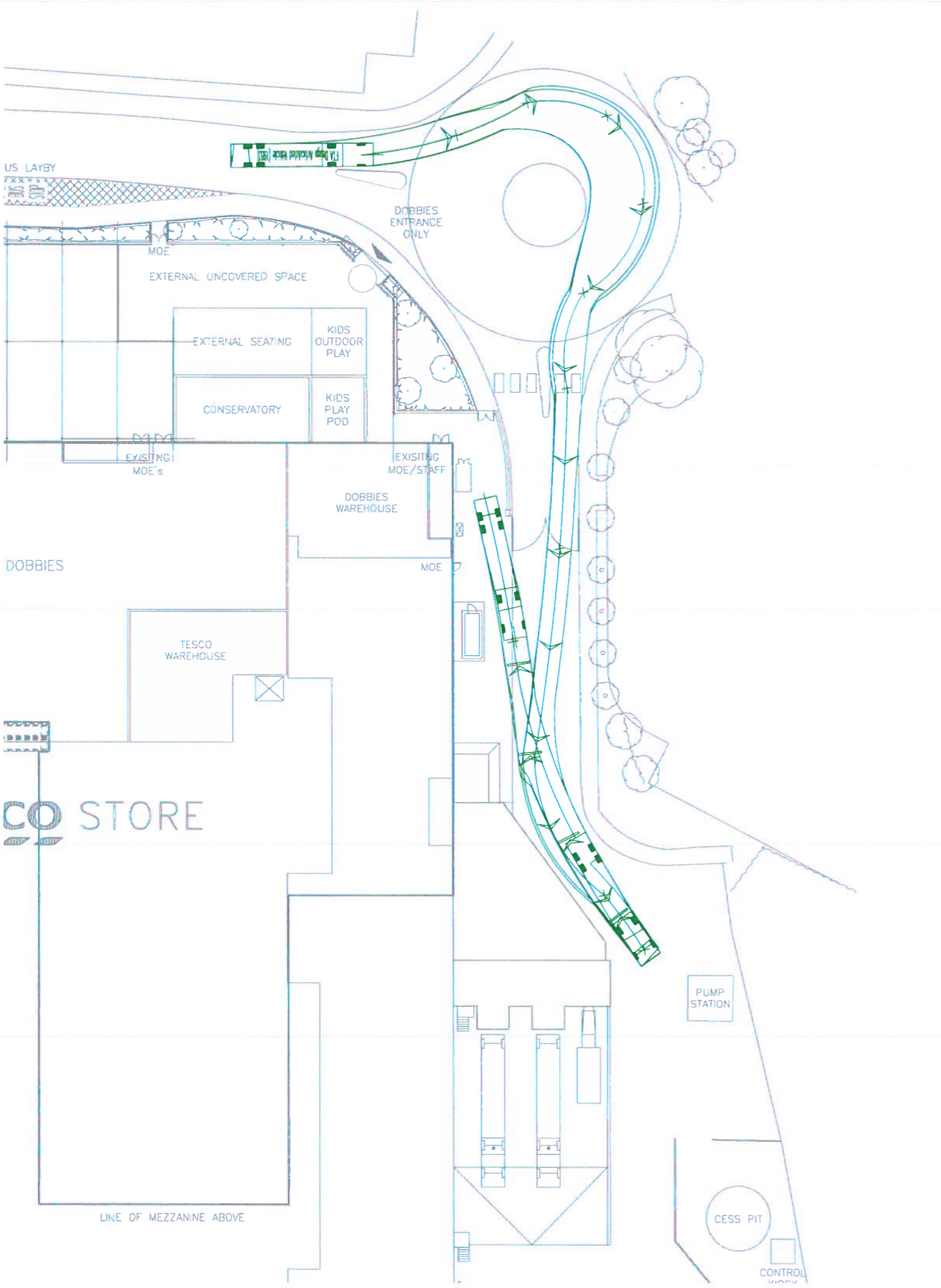
WAITING VAN BAY

Appendix B – Vehicle Tracking Drawings

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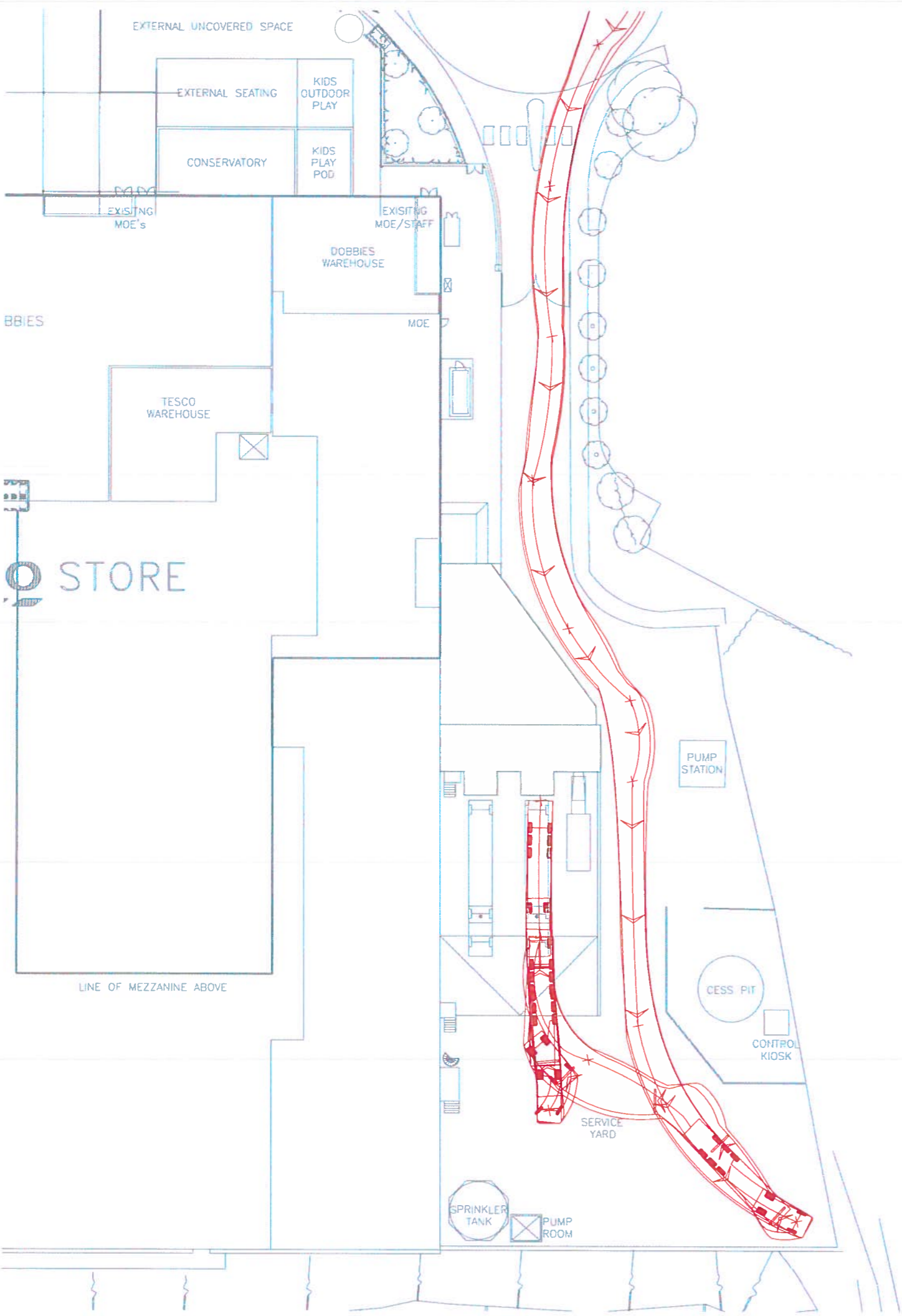






TESCO STORE

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Appendix C – Car Park Survey Results

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 **Sky High**
Count On Us

Bay Associates

C0594 Tesco Car Park, Culverhouse Cross

1

Saturday 17th May 2014

0700-1900

Manual

ervations:



7018290041

C0594 TESCO CAR PARK, CULVERHOUSE CROSS
SATURDAY 17TH MAY 2014
SITE PLAN

Blue	Pink	Red	Green	Yellow	Orange
46	0	98	78	246	167
0	0	0	33	0	7
11	15	0	0	10	0
4	0	0	0	0	0
0	0	0	0	3	8



BLUE ZONE						
BAY TYPE	NORMAL	DISABLED	PARENT & CHILD	MCL	OTHER	TOTAL
AVAILABLE SPACES	46	X	11	4	X	61
07:00	5	X	3	0	X	8
07:15	7	X	2	0	X	9
07:30	9	X	2	0	X	11
07:45	12	X	4	0	X	16
08:00	13	X	4	0	X	17
08:15	20	X	6	0	X	26
08:30	20	X	4	0	X	24
08:45	22	X	4	0	X	26
09:00	26	X	6	0	X	32
09:15	31	X	6	0	X	37
09:30	45	X	7	0	X	52
09:45	46	X	8	0	X	54
10:00	46	X	9	0	X	55
10:15	45	X	8	0	X	53
10:30	46	X	11	0	X	57
10:45	44	X	11	0	X	55
11:00	37	X	11	0	X	48
11:15	44	X	10	0	X	54
11:30	46	X	11	0	X	57
11:45	46	X	11	0	X	57
12:00	43	X	10	0	X	53
12:15	46	X	11	0	X	57
12:30	46	X	10	0	X	56
12:45	43	X	11	0	X	54
13:00	40	X	8	0	X	48
13:15	45	X	11	0	X	56
13:30	39	X	11	0	X	50
13:45	44	X	9	0	X	53
14:00	42	X	9	0	X	51
14:15	44	X	11	0	X	55

BLUE ZONE						
BAY TYPE	NORMAL	DISABLED	PARENT & CHILD	MCL	OTHER	TOTAL
AVAILABLE SPACES	46	X	11	4	X	61
14:30	46	X	11	0	X	57
14:45	46	X	11	0	X	57
15:00	42	X	10	0	X	52
15:15	43	X	10	0	X	53
15:30	42	X	11	0	X	53
15:45	43	X	9	0	X	52
16:00	46	X	10	0	X	56
16:15	45	X	10	0	X	55
16:30	44	X	9	0	X	53
16:45	41	X	8	0	X	49
17:00	45	X	10	0	X	55
17:15	40	X	9	0	X	49
17:30	39	X	7	0	X	46
17:45	27	X	8	0	X	35
18:00	21	X	9	0	X	30
18:15	36	X	11	0	X	47
18:30	31	X	11	0	X	42
18:45	34	X	8	0	X	42
19:00	36	X	6	0	X	42

Incidents / Observations: None

PINK ZONE						
BAY TYPE	NORMAL	DISABLED	PARENT & CHILD	MCL	OTHER	TOTAL
AVAILABLE SPACES	X	X	15	X	X	15
14:30	X	X	11	X	X	11
14:45	X	X	14	X	X	14
15:00	X	X	15	X	X	15
15:15	X	X	12	X	X	12
15:30	X	X	14	X	X	14
15:45	X	X	14	X	X	14
16:00	X	X	11	X	X	11
16:15	X	X	12	X	X	12
16:30	X	X	15	X	X	15
16:45	X	X	15	X	X	15
17:00	X	X	15	X	X	15
17:15	X	X	11	X	X	11
17:30	X	X	9	X	X	9
17:45	X	X	8	X	X	8
18:00	X	X	11	X	X	11
18:15	X	X	14	X	X	14
18:30	X	X	9	X	X	9
18:45	X	X	12	X	X	12
19:00	X	X	13	X	X	13

Incidents / Observations: None

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RED ZONE						
BAY TYPE	NORMAL	DISABLED	PARENT & CHILD	MCL	OTHER	TOTAL
AVAILABLE SPACES	98	X	X	X	X	98
07:00	19	X	X	X	X	19
07:15	22	X	X	X	X	22
07:30	24	X	X	X	X	24
07:45	32	X	X	X	X	32
08:00	35	X	X	X	X	35
08:15	41	X	X	X	X	41
08:30	39	X	X	X	X	39
08:45	40	X	X	X	X	40
09:00	51	X	X	X	X	51
09:15	55	X	X	X	X	55
09:30	63	X	X	X	X	63
09:45	67	X	X	X	X	67
10:00	75	X	X	X	X	75
10:15	83	X	X	X	X	83
10:30	93	X	X	X	X	93
10:45	92	X	X	X	X	92
11:00	91	X	X	X	X	91
11:15	94	X	X	X	X	94
11:30	95	X	X	X	X	95
11:45	96	X	X	X	X	96
12:00	94	X	X	X	X	94
12:15	96	X	X	X	X	96
12:30	98	X	X	X	X	98
12:45	96	X	X	X	X	96
13:00	95	X	X	X	X	95
13:15	96	X	X	X	X	96
13:30	94	X	X	X	X	94
13:45	87	X	X	X	X	87
14:00	91	X	X	X	X	91
14:15	94	X	X	X	X	94

RED ZONE						
BAY TYPE	NORMAL	DISABLED	PARENT & CHILD	MCL	OTHER	TOTAL
AVAILABLE SPACES	98	X	X	X	X	98
14:30	93	X	X	X	X	93
14:45	91	X	X	X	X	91
15:00	92	X	X	X	X	92
15:15	9	X	X	X	X	9
15:30	90	X	X	X	X	90
15:45	88	X	X	X	X	88
16:00	84	X	X	X	X	84
16:15	79	X	X	X	X	79
16:30	81	X	X	X	X	81
16:45	82	X	X	X	X	82
17:00	74	X	X	X	X	74
17:15	79	X	X	X	X	79
17:30	81	X	X	X	X	81
17:45	79	X	X	X	X	79
18:00	80	X	X	X	X	80
18:15	81	X	X	X	X	81
18:30	80	X	X	X	X	80
18:45	84	X	X	X	X	84
19:00	78	X	X	X	X	78

Incidents / Observations: None

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GREEN ZONE						
BAY TYPE	NORMAL	DISABLED	PARENT & CHILD	MCI	OTHER	TOTAL
AVAILABLE SPACES	78	33	X	X	X	111
07:00	11	1	X	X	X	12
07:15	10	3	X	X	X	13
07:30	8	3	X	X	X	11
07:45	14	4	X	X	X	18
08:00	21	9	X	X	X	30
08:15	30	10	X	X	X	40
08:30	36	9	X	X	X	45
08:45	35	14	X	X	X	49
09:00	39	14	X	X	X	53
09:15	44	16	X	X	X	60
09:30	56	18	X	X	X	74
09:45	53	18	X	X	X	71
10:00	69	23	X	X	X	92
10:15	68	21	X	X	X	89
10:30	73	24	X	X	X	97
10:45	76	30	X	X	X	106
11:00	75	32	X	X	X	107
11:15	76	31	X	X	X	107
11:30	74	31	X	X	X	105
11:45	75	33	X	X	X	108
12:00	77	31	X	X	X	108
12:15	78	30	X	X	X	108
12:30	76	32	X	X	X	108
12:45	74	24	X	X	X	98
13:00	77	28	X	X	X	105
13:15	73	26	X	X	X	99
13:30	69	26	X	X	X	95
13:45	74	28	X	X	X	102
14:00	76	22	X	X	X	98
14:15	75	25	X	X	X	100

GREEN ZONE						
BAY TYPE	NORMAL	DISABLED	PARENT & CHILD	MCI	OTHER	TOTAL
AVAILABLE SPACES	78	33	X	X	X	111
14:30	73	23	X	X	X	96
14:45	76	28	X	X	X	104
15:00	78	32	X	X	X	110
15:15	74	28	X	X	X	102
15:30	72	19	X	X	X	91
15:45	71	17	X	X	X	88
16:00	72	18	X	X	X	90
16:15	70	21	X	X	X	91
16:30	68	27	X	X	X	95
16:45	66	29	X	X	X	95
17:00	71	31	X	X	X	102
17:15	63	14	X	X	X	77
17:30	61	15	X	X	X	76
17:45	63	13	X	X	X	76
18:00	80	9	X	X	X	89
18:15	49	12	X	X	X	61
18:30	38	15	X	X	X	53
18:45	38	11	X	X	X	49
19:00	26	7	X	X	X	33

Incidents / Observations: None

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YELLOW ZONE						
BAY TYPE	NORMAL	DISABLED	PARENT & CHILD	MCL	OTHER	TOTAL
AVAILABLE SPACES	246	X	10	X	3	259
07:00	4	X	4	X	0	8
07:15	1	X	4	X	0	5
07:30	1	X	4	X	0	5
07:45	5	X	4	X	0	9
08:00	6	X	4	X	0	10
08:15	6	X	4	X	0	10
08:30	6	X	4	X	0	10
08:45	7	X	4	X	0	11
09:00	8	X	5	X	0	13
09:15	16	X	6	X	0	22
09:30	16	X	5	X	0	21
09:45	18	X	5	X	2	25
10:00	18	X	5	X	1	24
10:15	20	X	7	X	3	30
10:30	29	X	6	X	1	36
10:45	35	X	8	X	0	43
11:00	37	X	8	X	0	45
11:15	48	X	7	X	0	55
11:30	41	X	9	X	0	50
11:45	43	X	8	X	0	51
12:00	41	X	7	X	0	48
12:15	47	X	5	X	0	52
12:30	46	X	6	X	0	52
12:45	44	X	8	X	0	52
13:00	42	X	10	X	0	52
13:15	38	X	10	X	0	48
13:30	30	X	9	X	2	41
13:45	30	X	8	X	1	39
14:00	23	X	6	X	1	30
14:15	28	X	6	X	0	34

YELLOW ZONE						
BAY TYPE	NORMAL	DISABLED	PARENT & CHILD	MCL	OTHER	TOTAL
AVAILABLE SPACES	246	X	10	X	3	259
14:30	24	X	4	X	0	28
14:45	26	X	4	X	0	30
15:00	27	X	4	X	0	31
15:15	24	X	3	X	0	27
15:30	34	X	6	X	0	40
15:45	33	X	7	X	0	40
16:00	29	X	6	X	0	35
16:15	22	X	4	X	0	26
16:30	20	X	5	X	0	25
16:45	23	X	4	X	1	28
17:00	17	X	4	X	1	22
17:15	9	X	3	X	1	13
17:30	12	X	1	X	1	14
17:45	8	X	2	X	2	12
18:00	6	X	1	X	0	7
18:15	1	X	1	X	0	2
18:30	1	X	1	X	0	2
18:45	8	X	0	X	0	8
19:00	6	X	0	X	0	6

Incidents / Observations: 3 Bays marked 'Other' are allocated for click & Collect (C&C). One C&C bay was allocated for delivery, the other two for collection.

Customers would make online orders and then arrange a time to pick up the groceries and meet the delivery van there at a specified time.

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ORANGE ZONE						
BAY TYPE	NORMAL	DISABLED	PARENT & CHILD	MCL	OTHER	TOTAL
AVAILABLE SPACES	167	7	X	X	8	182
07:00	6	0	X	X	0	6
07:15	6	0	X	X	0	6
07:30	7	0	X	X	0	7
07:45	11	0	X	X	0	11
08:00	14	0	X	X	0	14
08:15	17	0	X	X	1	18
08:30	23	0	X	X	1	24
08:45	24	0	X	X	2	26
09:00	25	0	X	X	2	27
09:15	30	0	X	X	3	33
09:30	28	0	X	X	2	30
09:45	29	0	X	X	2	31
10:00	35	0	X	X	2	37
10:15	42	0	X	X	2	44
10:30	49	0	X	X	3	52
10:45	52	2	X	X	3	57
11:00	56	2	X	X	3	61
11:15	53	1	X	X	2	56
11:30	54	2	X	X	2	58
11:45	55	1	X	X	2	58
12:00	57	0	X	X	2	59
12:15	55	0	X	X	2	57
12:30	52	1	X	X	3	56
12:45	54	1	X	X	3	58
13:00	57	1	X	X	2	60
13:15	58	2	X	X	3	63
13:30	50	2	X	X	2	54
13:45	57	2	X	X	2	61
14:00	40	1	X	X	4	45
14:15	44	1	X	X	3	48

ORANGE ZONE						
BAY TYPE	NORMAL	DISABLED	PARENT & CHILD	MCL	OTHER	TOTAL
AVAILABLE SPACES	167	7	X	X	8	182
14:30	48	0	X	X	2	50
14:45	51	0	X	X	2	53
15:00	55	0	X	X	3	58
15:15	56	0	X	X	2	58
15:30	56	1	X	X	2	59
15:45	50	1	X	X	2	53
16:00	44	0	X	X	2	46
16:15	42	0	X	X	1	43
16:30	40	0	X	X	1	41
16:45	40	0	X	X	2	42
17:00	39	0	X	X	0	39
17:15	36	0	X	X	0	36
17:30	35	0	X	X	0	35
17:45	33	0	X	X	0	33
18:00	32	0	X	X	0	32
18:15	27	0	X	X	0	27
18:30	24	0	X	X	0	24
18:45	24	0	X	X	0	24
19:00	24	0	X	X	0	24

Incidents / Observations: 8 Bays marked 'Other' are allocated for on-site car wash (4 bays occupied by car wash equipment, 4 parking bays).

The enumerator remarked that although the car park had designated spaces, some of the 'Normal' bays were also utilised by the car wash staff when 'drying' cars.

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Appendix D – TRICS Calculations

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 01 - RETAIL
Category : A - FOOD SUPERSTORE

VEHICLESSelected regions and areas:

02	SOUTH EAST	
	SC SURREY	2 days
	WN WINDSOR & MAIDENHEAD	1 days
03	SOUTH WEST	
	CW CORNWALL	1 days
	DV DEVON	1 days
	GS GLOUCESTERSHIRE	1 days
	SM SOMERSET	1 days
04	EAST ANGLIA	
	CA CAMBRIDGESHIRE	1 days
	SF SUFFOLK	1 days
05	EAST MIDLANDS	
	LE LEICESTERSHIRE	2 days
	NR NORTHAMPTONSHIRE	1 days
	NT NOTTINGHAMSHIRE	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	1 days
	WK WARWICKSHIRE	2 days
09	NORTH	
	CB CUMBRIA	1 days
10	WALES	
	CF CARDIFF	1 days
	CP CAERPHILLY	1 days
	IA ISLE OF ANGLESEY	1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

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Filtering Stage 2 selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Gross floor area
 Actual Range: 1700 to 10725 (units: sqm)
 Range Selected by User: 800 to 15000 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 05/10/13

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Monday	1 days
Tuesday	3 days
Wednesday	1 days
Thursday	2 days
Friday	13 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count	20 days
Directional ATC Count	0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Town Centre	3
Suburban Area (PPS6 Out of Centre)	7
Edge of Town	9
Neighbourhood Centre (PPS6 Local Centre)	1

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Commercial Zone	1
Development Zone	1
Residential Zone	9
Retail Zone	2
Built-Up Zone	1
High Street	2
No Sub Category	4

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Filtering Stage 3 selection:Use Class:

A1	20 days
----	---------

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS@.

Filtering Stage 3 selection (Cont.):

Population within 1 mile:

5,001 to 10,000	7 days
10,001 to 15,000	3 days
15,001 to 20,000	2 days
20,001 to 25,000	5 days
25,001 to 50,000	2 days
50,001 to 100,000	1 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

25,001 to 50,000	2 days
50,001 to 75,000	2 days
75,001 to 100,000	3 days
100,001 to 125,000	2 days
125,001 to 250,000	5 days
250,001 to 500,000	6 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

0.6 to 1.0	7 days
1.1 to 1.5	12 days
1.6 to 2.0	1 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Petrol filling station:

PFS is present at the site and is included in the count	7 days
PFS is present at the site but is excluded from the count	4 days
There is no PFS at the site	9 days

This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.

Travel Plan:

Yes	3 days
No	17 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

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LIST OF SITES relevant to selection parameters

1	CA-01-A-01 SIDNEY STREET	SAINBURY'S	CAMBRIDGESHIRE
	CAMBRIDGE Town Centre High Street		
	Total Gross floor area:	2210 sqm	
	Survey date: FRIDAY	12/07/13	Survey Type: MANUAL
2	CB-01-A-07 WIGTON ROAD	SOMERFIELD	CUMBRIA
	NEWTOWN CARLISLE		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Gross floor area:	1700 sqm	
	Survey date: FRIDAY	05/02/10	Survey Type: MANUAL
3	CF-01-A-02 TY-GLAS ROAD	MORRISONS	CARDIFF
	LLANISHEN CARDIFF		
	Suburban Area (PPS6 Out of Centre) Built-Up Zone		
	Total Gross floor area:	4212 sqm	
	Survey date: FRIDAY	27/10/06	Survey Type: MANUAL
4	CP-01-A-01 NEWBRIDGE ROAD	SAINSBURYS	CAERPHILLY
	PONTLLANFRAITH Edge of Town		
	No Sub Category		
	Total Gross floor area:	7124 sqm	
	Survey date: FRIDAY	07/10/11	Survey Type: MANUAL
5	CW-01-A-09 KERNICK ROAD	ASDA	CORNWALL
	PENRYN Edge of Town		
	No Sub Category		
	Total Gross floor area:	8991 sqm	
	Survey date: TUESDAY	26/05/09	Survey Type: MANUAL
6	DV-01-A-21 TORR LANE	MORRISONS	DEVON
	PENNYCROSS PLYMOUTH		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Gross floor area:	5000 sqm	
	Survey date: FRIDAY	23/10/09	Survey Type: MANUAL
7	GS-01-A-03 BARNETT WAY	SAINSBURYS	GLOUCESTERSHIRE
	BARNWOOD GLOUCESTER		
	Edge of Town Commercial Zone		
	Total Gross floor area:	7950 sqm	
	Survey date: FRIDAY	30/04/10	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

8	IA-01-A-01 MONA ROAD	CO-OP	ISLE OF ANGLESEY
	MENAI BRIDGE Edge of Town Residential Zone Total Gross floor area: 1825 sqm <i>Survey date: MONDAY 13/07/09</i>		<i>Survey Type: MANUAL</i>
9	LE-01-A-01 GLEN ROAD OADBY LEICESTER	SAINSBURYS	LEICESTERSHIRE
	Edge of Town Residential Zone Total Gross floor area: 4850 sqm <i>Survey date: FRIDAY 19/06/09</i>		<i>Survey Type: MANUAL</i>
10	LE-01-A-02 LEICESTER ROAD OADBY LEICESTER	ASDA	LEICESTERSHIRE
	Neighbourhood Centre (PPS6 Local Centre) No Sub Category Total Gross floor area: 8900 sqm <i>Survey date: TUESDAY 23/06/09</i>		<i>Survey Type: MANUAL</i>
11	NR-01-A-03 WEEDON ROAD SIXFIELDS NORTHAMPTON	SAINSBURYS	NORTHAMPTONSHIRE
	Suburban Area (PPS6 Out of Centre) Development Zone Total Gross floor area: 7012 sqm <i>Survey date: FRIDAY 07/10/11</i>		<i>Survey Type: MANUAL</i>
12	NT-01-A-05 CASTLE BRIDGE ROAD CASTLE BOULEVARD NOTTINGHAM	SAINSBURYS	NOTTINGHAMSHIRE
	Suburban Area (PPS6 Out of Centre) Retail Zone Total Gross floor area: 8101 sqm <i>Survey date: FRIDAY 07/10/11</i>		<i>Survey Type: MANUAL</i>
13	SC-01-A-08 LONDON ROAD	SAINSBURY'S	SURREY
	REDHILL Town Centre Retail Zone Total Gross floor area: 4746 sqm <i>Survey date: THURSDAY 08/07/10</i>		<i>Survey Type: MANUAL</i>
14	SC-01-A-12 REDDING WAY KNAPHILL WOKING	SAINSBURY'S	SURREY
	Edge of Town Residential Zone Total Gross floor area: 8250 sqm <i>Survey date: FRIDAY 23/11/12</i>		<i>Survey Type: MANUAL</i>

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LIST OF SITES relevant to selection parameters (Cont.)

15	SF-01-A-02	SAINSBURY'S	SUFFOLK
	UPPER BROOK STREET		
	IPSWICH Town Centre High Street		
	Total Gross floor area:	3280 sqm	
	Survey date: FRIDAY	19/07/13	Survey Type: MANUAL
16	SH-01-A-02	MORRISONS	SHROPSHIRE
	WHITCHURCH ROAD DITHERINGTON SHREWSBURY Suburban Area (PPS6 Out of Centre) No Sub Category		
	Total Gross floor area:	6800 sqm	
	Survey date: THURSDAY	11/06/09	Survey Type: MANUAL
17	SM-01-A-01	ASDA	SOMERSET
	CREECHBARRROW ROAD		
	TAUNTON Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Gross floor area:	10725 sqm	
	Survey date: FRIDAY	13/07/12	Survey Type: MANUAL
18	WK-01-A-02	ASDA	WARWICKSHIRE
	CHESTERTON DRIVE SYDENHAM LEAMINGTON SPA Edge of Town Residential Zone		
	Total Gross floor area:	8018 sqm	
	Survey date: WEDNESDAY	17/10/12	Survey Type: MANUAL
19	WK-01-A-03	TESCO	WARWICKSHIRE
	EMSCOTE ROAD		
	WARWICK Edge of Town Residential Zone		
	Total Gross floor area:	7951 sqm	
	Survey date: TUESDAY	16/10/12	Survey Type: MANUAL
20	WN-01-A-01	SAINSBURYS	WINDSOR & MAIDENHEAD
	LAKE END ROAD LENT RISE SLOUGH Edge of Town Residential Zone		
	Total Gross floor area:	6065 sqm	
	Survey date: FRIDAY	07/10/11	Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

TRIP RATE for Land Use 01 - RETAIL/A - FOOD SUPERSTORE

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									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00	5	6610	0.372	5	6610	0.082	5	6610	0.454
07:00 - 08:00	20	6186	1.534	20	6186	0.929	20	6186	2.463
08:00 - 09:00	20	6186	2.862	20	6186	2.049	20	6186	4.911
09:00 - 10:00	20	6186	4.245	20	6186	3.189	20	6186	7.434
10:00 - 11:00	20	6186	4.683	20	6186	4.186	20	6186	8.869
11:00 - 12:00	20	6186	5.160	20	6186	4.881	20	6186	10.041
12:00 - 13:00	20	6186	5.274	20	6186	5.319	20	6186	10.593
13:00 - 14:00	20	6186	5.189	20	6186	5.281	20	6186	10.470
14:00 - 15:00	20	6186	4.790	20	6186	5.042	20	6186	9.832
15:00 - 16:00	20	6186	4.836	20	6186	4.981	20	6186	9.817
16:00 - 17:00	20	6186	5.046	20	6186	5.160	20	6186	10.206
17:00 - 18:00	20	6186	5.235	20	6186	5.383	20	6186	10.618
18:00 - 19:00	20	6186	4.530	20	6186	5.008	20	6186	9.538
19:00 - 20:00	20	6186	3.272	20	6186	3.843	20	6186	7.115
20:00 - 21:00	19	6338	2.097	19	6338	2.709	19	6338	4.806
21:00 - 22:00	19	6338	1.104	19	6338	1.648	19	6338	2.752
22:00 - 23:00	6	6210	0.094	6	6210	0.290	6	6210	0.384
23:00 - 24:00									
Total Rates:			60.323			59.980			120.303

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 1700 - 10725 (units: sqm)
 Survey date range: 01/01/05 - 05/10/13
 Number of weekdays (Monday-Friday): 20
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

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TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 01 - RETAIL
Category : A - FOOD SUPERSTORE

VEHICLESSelected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	2 days
	EX ESSEX	1 days
	HC HAMPSHIRE	1 days
	HF HERTFORDSHIRE	1 days
	SC SURREY	1 days
	WN WINDSOR & MAIDENHEAD	1 days
03	SOUTH WEST	
	CW CORNWALL	1 days
	DC DORSET	1 days
	DV DEVON	1 days
	GS GLOUCESTERSHIRE	1 days
	SM SOMERSET	1 days
04	EAST ANGLIA	
	NF NORFOLK	1 days
05	EAST MIDLANDS	
	LN LINCOLNSHIRE	2 days
	NR NORTHAMPTONSHIRE	1 days
	NT NOTTINGHAMSHIRE	1 days
06	WEST MIDLANDS	
	WM WEST MIDLANDS	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NY NORTH YORKSHIRE	3 days
09	NORTH	
	CB CUMBRIA	1 days
	DH DURHAM	2 days
	TW TYNE & WEAR	1 days
10	WALES	
	CP CAERPHILLY	1 days
	DB DENBIGHSHIRE	1 days
	FS FLINTSHIRE	1 days
	MM MONMOUTHSHIRE	1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Filtering Stage 2 selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Gross floor area
 Actual Range: 800 to 10250 (units: sqm)
 Range Selected by User: 800 to 16000 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 05/10/13

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Saturday 29 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count 29 days
 Directional ATC Count 0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Town Centre 1
 Edge of Town Centre 2
 Suburban Area (PPS6 Out of Centre) 13
 Edge of Town 13

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Industrial Zone 1
 Commercial Zone 3
 Development Zone 1
 Residential Zone 10
 Retail Zone 3
 Built-Up Zone 2
 High Street 1
 No Sub Category 8

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Filtering Stage 3 selection:

Use Class:

A1 29 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

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Filtering Stage 3 selection (Cont.):

Population within 1 mile:

1,001 to 5,000	3 days
5,001 to 10,000	9 days
10,001 to 15,000	6 days
15,001 to 20,000	1 days
20,001 to 25,000	5 days
25,001 to 50,000	4 days
50,001 to 100,000	1 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

5,001 to 25,000	4 days
25,001 to 50,000	2 days
50,001 to 75,000	3 days
75,001 to 100,000	6 days
100,001 to 125,000	5 days
125,001 to 250,000	5 days
250,001 to 500,000	3 days
500,001 or More	1 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

0.6 to 1.0	11 days
1.1 to 1.5	14 days
1.6 to 2.0	4 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Petrol filling station:

PFS is present at the site and is included in the count	17 days
PFS is present at the site but is excluded from the count	3 days
There is no PFS at the site	9 days

This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.

Travel Plan:

Not Known	1 days
Yes	3 days
No	25 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

LIST OF SITES relevant to selection parameters

1	CB-01-A-06	MORRISONS		CUMBRIA
	KINGSTOWN ROAD			
	CARLISLE			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Gross floor area:		7800 sqm	
	Survey date:	SATURDAY	18/06/05	Survey Type: MANUAL
2	CP-01-A-01	SAINSBURYS		CAERPHILLY
	NEWBRIDGE ROAD			
	PONTLLANFRAITH			
	Edge of Town			
	No Sub Category			
	Total Gross floor area:		7124 sqm	
	Survey date:	SATURDAY	08/10/11	Survey Type: MANUAL
3	CW-01-A-09	ASDA		CORNWALL
	KERNICK ROAD			
	PENRYN			
	Edge of Town			
	No Sub Category			
	Total Gross floor area:		8991 sqm	
	Survey date:	SATURDAY	23/05/09	Survey Type: MANUAL
4	DB-01-A-01	MORRISONS		DENBIGHSHIRE
	MARSH ROAD			
	RHYL			
	Edge of Town Centre			
	Commercial Zone			
	Total Gross floor area:		6894 sqm	
	Survey date:	SATURDAY	08/10/11	Survey Type: MANUAL
5	DC-01-A-18	MORRISONS		DORSET
	DORCHESTER ROAD			
	WEYMOUTH			
	Edge of Town			
	No Sub Category			
	Total Gross floor area:		5156 sqm	
	Survey date:	SATURDAY	12/07/08	Survey Type: MANUAL
6	DH-01-A-02	SAINSBURYS		DURHAM
	SUNDERLAND ROAD			
	GILESGATE			
	DURHAM			
	Suburban Area (PPS6 Out of Centre)			
	Residential Zone			
	Total Gross floor area:		800 sqm	
	Survey date:	SATURDAY	25/10/08	Survey Type: MANUAL
7	DH-01-A-03	SAINSBURYS		DURHAM
	VICTORIA ROAD			
	DARLINGTON			
	Edge of Town Centre			
	Built-Up Zone			
	Total Gross floor area:		5100 sqm	
	Survey date:	SATURDAY	16/04/05	Survey Type: MANUAL

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LIST OF SITES relevant to selection parameters (Cont.)

8	DV-01-A-20	SAINSBURYS	DEVON
	HILL BARTON ROAD WHIPTON EXETER Edge of Town Residential Zone Total Gross floor area: 6081 sqm <i>Survey date: SATURDAY 24/10/09</i>		
	<i>Survey Type: MANUAL</i>		
9	ES-01-A-15	SAINSBURYS	EAST SUSSEX
	LEWES ROAD BRIGHTON Suburban Area (PPS6 Out of Centre) No Sub Category Total Gross floor area: 5900 sqm <i>Survey date: SATURDAY 24/11/07</i>		
	<i>Survey Type: MANUAL</i>		
10	ES-01-A-16	ASDA	EAST SUSSEX
	BATTLE ROAD ST LEONARDS ON SEA HASTINGS Suburban Area (PPS6 Out of Centre) Retail Zone Total Gross floor area: 6920 sqm <i>Survey date: SATURDAY 05/11/11</i>		
	<i>Survey Type: MANUAL</i>		
11	EX-01-A-02	CO-OP	ESSEX
	PEARTREE ROAD STANWAY COLCHESTER Suburban Area (PPS6 Out of Centre) Retail Zone Total Gross floor area: 3000 sqm <i>Survey date: SATURDAY 12/07/08</i>		
	<i>Survey Type: MANUAL</i>		
12	FS-01-A-01	SOMERFIELD	FLINTSHIRE
	NEW STREET MOLD Town Centre High Street Total Gross floor area: 1920 sqm <i>Survey date: SATURDAY 04/07/09</i>		
	<i>Survey Type: MANUAL</i>		
13	GS-01-A-04	SAINSBURYS	GLOUCESTERSHIRE
	PRIORS ROAD CHELTENHAM Edge of Town Residential Zone Total Gross floor area: 4250 sqm <i>Survey date: SATURDAY 24/04/10</i>		
	<i>Survey Type: MANUAL</i>		
14	HC-01-A-05	SAINSBURYS	HAMPSHIRE
	BADGER FARM ROAD WINCHESTER Edge of Town Residential Zone Total Gross floor area: 6800 sqm <i>Survey date: SATURDAY 17/11/07</i>		
	<i>Survey Type: MANUAL</i>		

LIST OF SITES relevant to selection parameters (Cont.)

15	HF-01-A-02	MORRISONS		HERTFORDSHIRE
		BLACK FAN ROAD PANSHANGER WELWYN GARDEN CITY Suburban Area (PPS6 Out of Centre) Residential Zone Total Gross floor area: 4500 sqm Survey date: SATURDAY 05/07/08		Survey Type: MANUAL
16	LN-01-A-05	ASDA		LINCOLNSHIRE
		NEWARK ROAD NORTH HYKEHAM LINCOLN Suburban Area (PPS6 Out of Centre) Residential Zone Total Gross floor area: 7710 sqm Survey date: SATURDAY 21/05/05		Survey Type: MANUAL
17	LN-01-A-06	SAINSBURYS		LINCOLNSHIRE
		TRITTON ROAD LINCOLN Edge of Town Commercial Zone Total Gross floor area: 6950 sqm Survey date: SATURDAY 12/05/07		Survey Type: MANUAL
18	MM-01-A-01	WAITROSE		MONMOUTHSHIRE
		VALLEYS RD ABERGAVENNY Edge of Town No Sub Category Total Gross floor area: 4550 sqm Survey date: SATURDAY 06/10/07		Survey Type: MANUAL
19	NF-01-A-04	SAINSBURYS		NORFOLK
		QUEENS ROAD NORWICH Suburban Area (PPS6 Out of Centre) Built-Up Zone Total Gross floor area: 5810 sqm Survey date: SATURDAY 19/05/07		Survey Type: MANUAL
20	NR-01-A-03	SAINSBURYS		NORTHAMPTONSHIRE
		WEEDON ROAD SIXFIELDS NORTHAMPTON Suburban Area (PPS6 Out of Centre) Development Zone Total Gross floor area: 7012 sqm Survey date: SATURDAY 08/10/11		Survey Type: MANUAL

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LIST OF SITES relevant to selection parameters (Cont.)

21	NT-01-A-05	SAINSBURYS	NOTTINGHAMSHIRE
		CASTLE BRIDGE ROAD CASTLE BOULEVARD NOTTINGHAM Suburban Area (PPS6 Out of Centre) Retail Zone Total Gross floor area: 8101 sqm Survey date: SATURDAY 08/10/11	Survey Type: MANUAL
22	NY-01-A-03	MORRISONS	NORTH YORKSHIRE
		HARROGATE ROAD RIPON Edge of Town Residential Zone Total Gross floor area: 4237 sqm Survey date: SATURDAY 20/09/08	Survey Type: MANUAL
23	NY-01-A-04	MORRISONS	NORTH YORKSHIRE
		WETHERBY ROAD BOROUGHBRIDGE Edge of Town No Sub Category Total Gross floor area: 6320 sqm Survey date: SATURDAY 13/09/08	Survey Type: MANUAL
24	NY-01-A-05	SAINSBURY'S	NORTH YORKSHIRE
		HIGH STREET NORTHALLERTON Suburban Area (PPS6 Out of Centre) No Sub Category Total Gross floor area: 2300 sqm Survey date: SATURDAY 26/09/09	Survey Type: MANUAL
25	SC-01-A-11	SAINSBURY'S	SURREY
		A331 CAMBERLEY Edge of Town No Sub Category Total Gross floor area: 10250 sqm Survey date: SATURDAY 24/11/12	Survey Type: MANUAL
26	SM-01-A-02	MORRISONS	SOMERSET
		VULCAN ROAD MINEHEAD Edge of Town Commercial Zone Total Gross floor area: 4575 sqm Survey date: SATURDAY 14/07/12	Survey Type: MANUAL
27	TW-01-A-01	SAINSBURY'S	TYNE & WEAR
		ETHERSTONE AVENUE NEWCASTLE UPON TYNE Suburban Area (PPS6 Out of Centre) Residential Zone Total Gross floor area: 9300 sqm Survey date: SATURDAY 05/10/13	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

<p>28 WM-01-A-03 ASDA COVENTRY ROAD SMALL HEATH BIRMINGHAM Suburban Area (PPS6 Out of Centre) Industrial Zone Total Gross floor area: 10000 sqm <i>Survey date: SATURDAY 22/09/07</i></p>	<p>WEST MIDLANDS</p> <p><i>Survey Type: MANUAL</i></p>
<p>29 WN-01-A-01 SAINSBURYS LAKE END ROAD LENT RISE SLOUGH Edge of Town Residential Zone Total Gross floor area: 6065 sqm <i>Survey date: SATURDAY 08/10/11</i></p>	<p>WINDSOR & MAIDENHEAD</p> <p><i>Survey Type: MANUAL</i></p>

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

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TRIP RATE for Land Use 01 - RETAIL/A - FOOD SUPERSTORE

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									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00	4	7076	0.325	4	7076	0.028	4	7076	0.353
07:00 - 08:00	29	6014	1.452	29	6014	0.869	29	6014	2.321
08:00 - 09:00	29	6014	3.386	29	6014	2.241	29	6014	5.627
09:00 - 10:00	29	6014	4.851	29	6014	3.829	29	6014	8.680
10:00 - 11:00	29	6014	6.198	29	6014	5.246	29	6014	11.444
11:00 - 12:00	29	6014	6.702	29	6014	6.202	29	6014	12.904
12:00 - 13:00	29	6014	6.334	29	6014	6.273	29	6014	12.607
13:00 - 14:00	29	6014	5.962	29	6014	6.212	29	6014	12.174
14:00 - 15:00	29	6014	5.930	29	6014	5.936	29	6014	11.866
15:00 - 16:00	29	6014	6.123	29	6014	6.139	29	6014	12.262
16:00 - 17:00	29	6014	5.866	29	6014	6.596	29	6014	12.462
17:00 - 18:00	29	6014	5.176	29	6014	6.114	29	6014	11.290
18:00 - 19:00	29	6014	4.056	29	6014	4.999	29	6014	9.055
19:00 - 20:00	29	6014	2.340	29	6014	3.270	29	6014	5.610
20:00 - 21:00	29	6014	1.211	29	6014	1.785	29	6014	2.996
21:00 - 22:00	26	6127	0.597	26	6127	0.829	26	6127	1.426
22:00 - 23:00	5	6120	0.013	5	6120	0.127	5	6120	0.140
23:00 - 24:00									
Total Rates:			66.522			66.695			133.217

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 800 - 10250 (units: sqm)
 Survey date date range: 01/01/05 - 05/10/13
 Number of weekdays (Monday-Friday): 0
 Number of Saturdays: 29
 Number of Sundays: 0
 Surveys manually removed from selection: 2

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 01 - RETAIL
Category : H - GARDEN CENTRE

VEHICLES

Selected regions and areas:

02 SOUTH EAST
HC HAMPSHIRE 1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Filtering Stage 2 selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Gross floor area
Actual Range: 3700 to 3700 (units: sqm)
Range Selected by User: 744 to 23465 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 08/06/13

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Monday 1 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count 1 days
Directional ATC Count 0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Suburban Area (PPS6 Out of Centre) 1

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

No Sub Category 1

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Filtering Stage 3 selection:

Use Class:

A1 1 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

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Filtering Stage 3 selection (Cont.):Population within 1 mile:

15,001 to 20,000 1 days

*This data displays the number of selected surveys within stated 1-mile radii of population.*Population within 5 miles:

50,001 to 75,000 1 days

*This data displays the number of selected surveys within stated 5-mile radii of population.*Car ownership within 5 miles:

1.1 to 1.5 1 days

*This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.*Petrol filling station:

Included in the survey count 0 days

Excluded from count or no filling station 1 days

*This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.*Travel Plan:

No 1 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

LIST OF SITES relevant to selection parameters

1 HC-01-H-03 GARDEN CENTRE HAMPSHIRE

ROMSEY ROAD

WINCHESTER

Suburban Area (PPS6 Out of Centre)

No Sub Category

Total Gross floor area: 3700 sqm

Survey date: MONDAY 19/11/07

Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

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TRIP RATE for Land Use 01 - RETAIL/H - GARDEN CENTRE

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									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00	1	3700	0.351	1	3700	0.054	1	3700	0.405
09:00 - 10:00	1	3700	0.270	1	3700	0.270	1	3700	0.540
10:00 - 11:00	1	3700	0.757	1	3700	0.757	1	3700	1.514
11:00 - 12:00	1	3700	1.514	1	3700	1.595	1	3700	3.109
12:00 - 13:00	1	3700	0.838	1	3700	0.838	1	3700	1.676
13:00 - 14:00	1	3700	1.000	1	3700	0.865	1	3700	1.865
14:00 - 15:00	1	3700	1.405	1	3700	0.946	1	3700	2.351
15:00 - 16:00	1	3700	0.865	1	3700	1.243	1	3700	2.108
16:00 - 17:00	1	3700	0.351	1	3700	0.649	1	3700	1.000
17:00 - 18:00	1	3700	0.108	1	3700	0.270	1	3700	0.378
18:00 - 19:00									
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			7.459			7.487			14.946

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 3700 - 3700 (units: sqm)
 Survey date range: 01/01/05 - 08/06/13
 Number of weekdays (Monday-Friday): 1
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 01 - RETAIL
 Category : H - GARDEN CENTRE

VEHICLES

Selected regions and areas:

05 EAST MIDLANDS
 NR NORTHAMPTONSHIRE 1 days
08 NORTH WEST
 GM GREATER MANCHESTER 1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Filtering Stage 2 selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Gross floor area
 Actual Range: 1600 to 23465 (units: sqm)
 Range Selected by User: 744 to 5000 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 08/06/13

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Saturday 2 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count 2 days
 Directional ATC Count 0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Edge of Town 2

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

No Sub Category 2

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Filtering Stage 3 selection:

Use Class:

A1 2 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

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Filtering Stage 3 selection (Cont.):Population within 1 mile:

5,001 to 10,000	1 days
10,001 to 15,000	1 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

125,001 to 250,000	1 days
500,001 or More	1 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

1.1 to 1.5	2 days
------------	--------

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Petrol filling station:

Included in the survey count	0 days
Excluded from count or no filling station	2 days

This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.

Travel Plan:

No	2 days
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This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

LIST OF SITES relevant to selection parameters

- | | |
|--|--|
| <p>1 GM-01-H-06 GARDEN CENTRE
 CHURCH STREET
 WESTHOUGHTON
 BOLTON
 Edge of Town
 No Sub Category
 Total Gross floor area: 1600 sqm
 <i>Survey date: SATURDAY</i> 08/06/13</p> | <p>GREATER MANCHESTER</p> <p><i>Survey Type: MANUAL</i></p> |
| <p>2 NR-01-H-01 GARDEN CENTRE
 NEWPORT PAGNELL ROAD
 HARDINGSTONE
 NORTHAMPTON
 Edge of Town
 No Sub Category
 Total Gross floor area: 23465 sqm
 <i>Survey date: SATURDAY</i> 22/11/08</p> | <p>NORTHAMPTONSHIRE</p> <p><i>Survey Type: MANUAL</i></p> |

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

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TRIP RATE for Land Use 01 - RETAIL/H - GARDEN CENTRE

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									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	1	23465	0.034	1	23465	0.000	1	23465	0.034
08:00 - 09:00	2	12533	0.180	2	12533	0.060	2	12533	0.240
09:00 - 10:00	2	12533	0.391	2	12533	0.188	2	12533	0.579
10:00 - 11:00	2	12533	0.882	2	12533	0.463	2	12533	1.345
11:00 - 12:00	2	12533	0.894	2	12533	0.818	2	12533	1.712
12:00 - 13:00	2	12533	0.690	2	12533	1.029	2	12533	1.719
13:00 - 14:00	2	12533	0.922	2	12533	0.670	2	12533	1.592
14:00 - 15:00	2	12533	0.810	2	12533	0.942	2	12533	1.752
15:00 - 16:00	2	12533	0.710	2	12533	0.830	2	12533	1.540
16:00 - 17:00	2	12533	0.363	2	12533	0.662	2	12533	1.025
17:00 - 18:00	2	12533	0.156	2	12533	0.307	2	12533	0.463
18:00 - 19:00	1	23465	0.000	1	23465	0.060	1	23465	0.060
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			6.032			6.029			12.061

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 1600 - 23465 (units: sqm)
 Survey date date range: 01/01/05 - 08/06/13
 Number of weekdays (Monday-Friday): 0
 Number of Saturdays: 2
 Number of Sundays: 0
 Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 06 - HOTEL, FOOD & DRINK
 Category : B - RESTAURANTS

VEHICLES

Selected regions and areas:

03 SOUTH WEST	
DC DORSET	1 days
06 WEST MIDLANDS	
WM WEST MIDLANDS	1 days
08 NORTH WEST	
GM GREATER MANCHESTER	1 days
MS MERSEYSIDE	1 days
09 NORTH	
DH DURHAM	1 days
10 WALES	
CF CARDIFF	1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Filtering Stage 2 selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Gross floor area
 Actual Range: 178 to 900 (units: sqm)
 Range Selected by User: 150 to 1200 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 23/11/09

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Monday	1 days
Thursday	1 days
Friday	4 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count	6 days
Directional ATC Count	0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Town Centre	3
Edge of Town Centre	3

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Development Zone	3
Retail Zone	1
Built-Up Zone	1
No Sub Category	1

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This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Filtering Stage 3 selection:Use Class:

A3 6 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 1 mile:1,001 to 5,000 1 days
10,001 to 15,000 2 days
20,001 to 25,000 1 days
25,001 to 50,000 2 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:75,001 to 100,000 1 days
125,001 to 250,000 1 days
250,001 to 500,000 1 days
500,001 or More 3 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:0.5 or Less 1 days
0.6 to 1.0 3 days
1.1 to 1.5 2 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

No 6 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

LIST OF SITES relevant to selection parameters

1	CF-06-B-01	LA TASCA	CARDIFF
	CAROLINE STREET		
	CARDIFF		
	Town Centre		
	Retail Zone		
	Total Gross floor area:	650 sqm	
	Survey date: FRIDAY	12/10/07	Survey Type: MANUAL
2	DC-06-B-01	PIZZA EXPRESS	DORSET
	HIGH STREET		
	POOLE		
	Town Centre		
	No Sub Category		
	Total Gross floor area:	178 sqm	
	Survey date: FRIDAY	18/07/08	Survey Type: MANUAL
3	DH-06-B-01	CHIQUITO	DURHAM
	FREEMANS PLACE		
	MILLENNIUM PLACE		
	DURHAM		
	Edge of Town Centre		
	Development Zone		
	Total Gross floor area:	500 sqm	
	Survey date: THURSDAY	04/12/08	Survey Type: MANUAL
4	GM-06-B-03	PIZZA HUT	GREATER MANCHESTER
	WELLINGTON ROAD STH.		
	STOCKPORT		
	Edge of Town Centre		
	Built-Up Zone		
	Total Gross floor area:	900 sqm	
	Survey date: MONDAY	23/11/09	Survey Type: MANUAL
5	MS-06-B-01	INDIAN RESTAURANT	MERSEYSIDE
	GOWER STREET		
	ALBERT DOCK		
	LIVERPOOL		
	Edge of Town Centre		
	Development Zone		
	Total Gross floor area:	600 sqm	
	Survey date: FRIDAY	22/06/07	Survey Type: MANUAL
6	WM-06-B-04	WAGAMAMA	WEST MIDLANDS
	EDGBASTON STREET		
	BULL RING		
	BIRMINGHAM		
	Town Centre		
	Development Zone		
	Total Gross floor area:	275 sqm	
	Survey date: FRIDAY	28/11/08	Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

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TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/B - RESTAURANTS

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									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00									
10:00 - 11:00	3	476	0.070	3	476	0.070	3	476	0.140
11:00 - 12:00	5	521	0.538	5	521	0.384	5	521	0.922
12:00 - 13:00	6	517	1.482	6	517	0.258	6	517	1.740
13:00 - 14:00	6	517	2.030	6	517	1.579	6	517	3.609
14:00 - 15:00	6	517	1.966	6	517	2.288	6	517	4.254
15:00 - 16:00	6	517	2.159	6	517	2.320	6	517	4.479
16:00 - 17:00	6	517	1.805	6	517	1.676	6	517	3.481
17:00 - 18:00	6	517	1.805	6	517	1.901	6	517	3.706
18:00 - 19:00	6	517	2.191	6	517	1.611	6	517	3.802
19:00 - 20:00	6	517	3.094	6	517	2.643	6	517	5.737
20:00 - 21:00	6	517	2.836	6	517	2.868	6	517	5.704
21:00 - 22:00	6	517	1.966	6	517	2.643	6	517	4.609
22:00 - 23:00	6	517	1.063	6	517	2.224	6	517	3.287
23:00 - 24:00	5	441	0.363	5	441	0.681	5	441	1.044
Total Rates:			23.368			23.146			46.514

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected: 178 - 900 (units: sqm)
 Survey date date range: 01/01/05 - 23/11/09
 Number of weekdays (Monday-Friday): 6
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 06 - HOTEL, FOOD & DRINK
 Category : B - RESTAURANTS

VEHICLES

Selected regions and areas:

05 EAST MIDLANDS
 DS DERBYSHIRE 1 days
 LE LEICESTERSHIRE 1 days
10 WALES
 CP CAERPHILLY 1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Filtering Stage 2 selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Gross floor area
 Actual Range: 383 to 450 (units: sqm)
 Range Selected by User: 150 to 1200 (units: sqm)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/05 to 23/11/09

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Saturday 3 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count 3 days
 Directional ATC Count 0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Town Centre 1
 Edge of Town Centre 1
 Suburban Area (PPS6 Out of Centre) 1

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Commercial Zone 1
 Built-Up Zone 1
 No Sub Category 1

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

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Filtering Stage 3 selection:Use Class:

A3 3 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS@.

Population within 1 mile:15,001 to 20,000 1 days
25,001 to 50,000 2 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:125,001 to 250,000 2 days
250,001 to 500,000 1 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:0.6 to 1.0 1 days
1.1 to 1.5 2 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

No 3 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

LIST OF SITES relevant to selection parameters

- | | |
|--|--|
| <p>1 CP-06-B-01 PIZZA HUT
 PARC PONTYPANDY</p> <p>CAERPHILLY
 Suburban Area (PPS6 Out of Centre)
 No Sub Category
 Total Gross floor area: 383 sqm
 <i>Survey date: SATURDAY 11/11/06</i></p> | <p>CAERPHILLY</p> <p><i>Survey Type: MANUAL</i></p> |
| <p>2 DS-06-B-01 LITTLE FRANKIES
 CORN MARKET</p> <p>DERBY
 Town Centre
 Built-Up Zone
 Total Gross floor area: 425 sqm
 <i>Survey date: SATURDAY 20/06/09</i></p> | <p>DERBYSHIRE</p> <p><i>Survey Type: MANUAL</i></p> |
| <p>3 LE-06-B-01 THAI RESTAURANT
 BRAUNSTONE GATE</p> <p>LEICESTER
 Edge of Town Centre
 Commercial Zone
 Total Gross floor area: 450 sqm
 <i>Survey date: SATURDAY 19/05/07</i></p> | <p>LEICESTERSHIRE</p> <p><i>Survey Type: MANUAL</i></p> |

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

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TRIP RATE for Land Use 06 - HOTEL, FOOD & DRINK/B - RESTAURANTS

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									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00									
08:00 - 09:00									
09:00 - 10:00	1	425	0.000	1	425	0.000	1	425	0.000
10:00 - 11:00	3	419	0.000	3	419	0.000	3	419	0.000
11:00 - 12:00	3	419	1.272	3	419	0.238	3	419	1.510
12:00 - 13:00	3	419	2.464	3	419	1.113	3	419	3.577
13:00 - 14:00	3	419	2.385	3	419	3.021	3	419	5.406
14:00 - 15:00	3	419	1.987	3	419	2.464	3	419	4.451
15:00 - 16:00	3	419	0.954	3	419	1.192	3	419	2.146
16:00 - 17:00	3	419	1.351	3	419	1.272	3	419	2.623
17:00 - 18:00	3	419	2.146	3	419	1.431	3	419	3.577
18:00 - 19:00	3	419	2.067	3	419	1.908	3	419	3.975
19:00 - 20:00	3	419	2.305	3	419	2.862	3	419	5.167
20:00 - 21:00	3	419	1.351	3	419	1.431	3	419	2.782
21:00 - 22:00	3	419	1.669	3	419	2.146	3	419	3.815
22:00 - 23:00	3	419	0.238	3	419	0.636	3	419	0.874
23:00 - 24:00	3	419	0.000	3	419	0.715	3	419	0.715
Total Rates:			20.189			20.429			40.618

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

*To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.*

Parameter summary

Trip rate parameter range selected: 383 - 450 (units: sqm)
 Survey date range: 01/01/05 - 23/11/09
 Number of weekdays (Monday-Friday): 0
 Number of Saturdays: 3
 Number of Sundays: 0
 Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.