

Transport Statement

CONSTRUCTION OF 8 SEMI DETACHED DWELLINGS
FORMER UPTON URC, FORD ROAD, UPTON CH49 0TG

HIGHWAYS ADVICE LTD on behalf of Hamilton Church Ltd, January 2021

1. TRANSPORT STATEMENT

This Transport Statement has been prepared by Highways Advice Ltd in support of a full planning application for the construction of 8 semi-detached dwellings (7 x 3 bedroom and 1 x 4 bedroom) at the former Upton United Reformed Church site, Ford Lane, Upton, CH49 0TG.

2. SITE LOCATION

The site is located north of Ford Road, approximately 315m east of Upton village. As shown below in **Figure 1** the former church site is situated adjacent to Merrills Lane and opposite Wroxham Drive.



Figure 1: Site Location

The site currently has no vehicular access points onto either Ford Road or Merrills Lane. A pedestrian access route only exists in the southwest corner of the site onto Ford Road, whilst a bus stop (flag and pole) is also situated on Ford Road midway along the site frontage.

2.1 Ford Road

Ford Road is a 6.6m wide adopted highway, that connects Upton Road with the A551 Arrowe Park Road / Moreton Road and the B5139 Old Greasby Road. Ford Road is street lit and subject to a 30mph speed limit.

On its north side, Ford Road is subject to a 'Limited Waiting' (7am-7pm Monday to Saturday) Traffic Regulation Order. On its south side a 'No Waiting At Any Time' (Double Yellow Lines) TRO is in place around the junction of Ford Road and Wroxham Drive, as shown below in **Figure 2**.



Figure 2: Ford Road to West

As seen in **Figure 3**, a 1.3m wide pedestrian footway exists alongside the site frontage on Ford Road. Several established trees (which are subject to Tree Protection Orders) also exist within the site, including immediately behind the existing front boundary wall.



Figure 3: Ford Road to East

2.2 Merrills Lane

As shown below in **Figure 4**, Merrills Lane is a narrow unadopted shared access route that serves 4 existing residential dwellings immediately adjacent to the application site.



Figure 4: Merrills Lane

2.3 Wroxham Drive

Shown below in **Figure 5**, Wroxham Drive is a 5.5m wide adopted residential access route. It is street lit with a 2.8m wide pedestrian footway and verge on its eastern side. It connects Salacre Lane with Ford Road and is generally lightly trafficked.



Figure 5: Wroxham Drive

3. SITE ACCESSIBILITY

3.1 Walking

Pedestrian access to the site will be via Ford Road. Designated adopted footways exist along both sides of Ford Road, providing a safe and convenient walking route between the application site and the shops and services available in Upton local centre.

As shown below in **Figure 6** the Wirral Local Plan 2020-2035 Issues & Options Proposals Map identifies the application site as being in a primarily residential area (shown in brown), within 315m walking distance (approximately 4 minutes' walk) of Upton local centre (shown in blue).

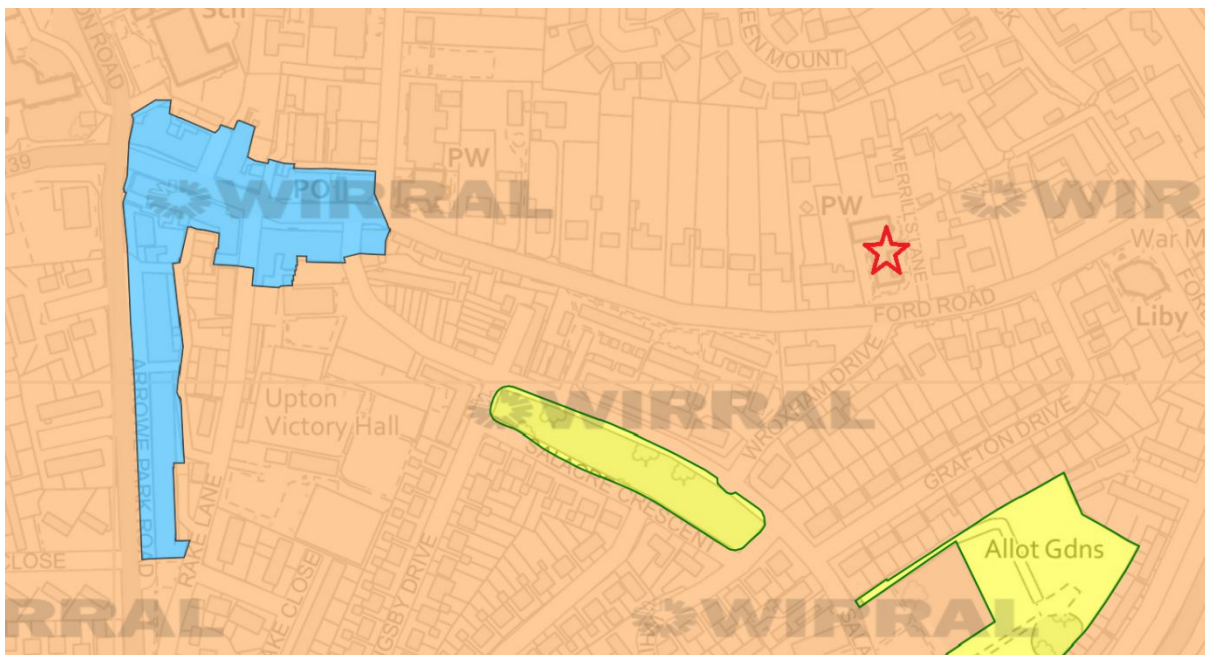


Figure 6: Extract from Wirral Local Plan 2020-2035 Issues & Options Proposals Map

Upton local centre includes a wide range of commercial services including bakery, beauty salon, bookmakers, card shop, charity shop, convenience store, funeral directors, launderette, opticians, pharmacy, takeaways, restaurants and vape shop. The application site is also within 550m walking distance of St. Joseph's Catholic Primary School, sited immediately north of the local centre.

A wide variety of local amenities and facilities in Upton local centre will therefore be available to future residents and visitors to the proposed development.

3.2 Bus

The site also has excellent accessibility to local bus services, being situated within 140m walking distance of two bus stops on Ford Road.

Buses serving Ford Road are frequent (between 6 and 10 services per hour in each direction) and provide access to many local areas including Birkenhead, Eastham Rake, Gayton, Liverpool, Moreton, New Ferry, Oxton and West Kirby, as detailed below in **Table 1**.

Ford Road - Eastbound Stop ID: merapwtd		Ford Road - Westbound Stop ID: meraptjg	
Service Number	Destination	Service Number	Destination
16/16A	Moreton	16/16A	Eastham Rake
418	Birkenhead	418	New Ferry
437	Liverpool	437	West Kirby
621	Oxton	701	Gayton
Buses per hour (Daytime)	10 (1 every 6 minutes)	-	10 (1 every 6 minutes)
Buses per hour (Evenings)	6 (1 every 10 minutes)	-	6 (1 every 10 minutes)

Table 1: Bus Service Frequency within 140m Walking Distance of the Site

Local bus travel will therefore be a realistic option for future residents and visitors to the proposed development.

3.3 Cycle

As shown below in **Figure 7**, the Wirral Cycle Map identifies Ford Road and Salacre Lane as suggested on-road cycle routes (level 3 and level 2 routes respectively). They also link with existing off-road cycle tracks on Upton Road to provide a safe and convenient cycle route to Upton rail station.

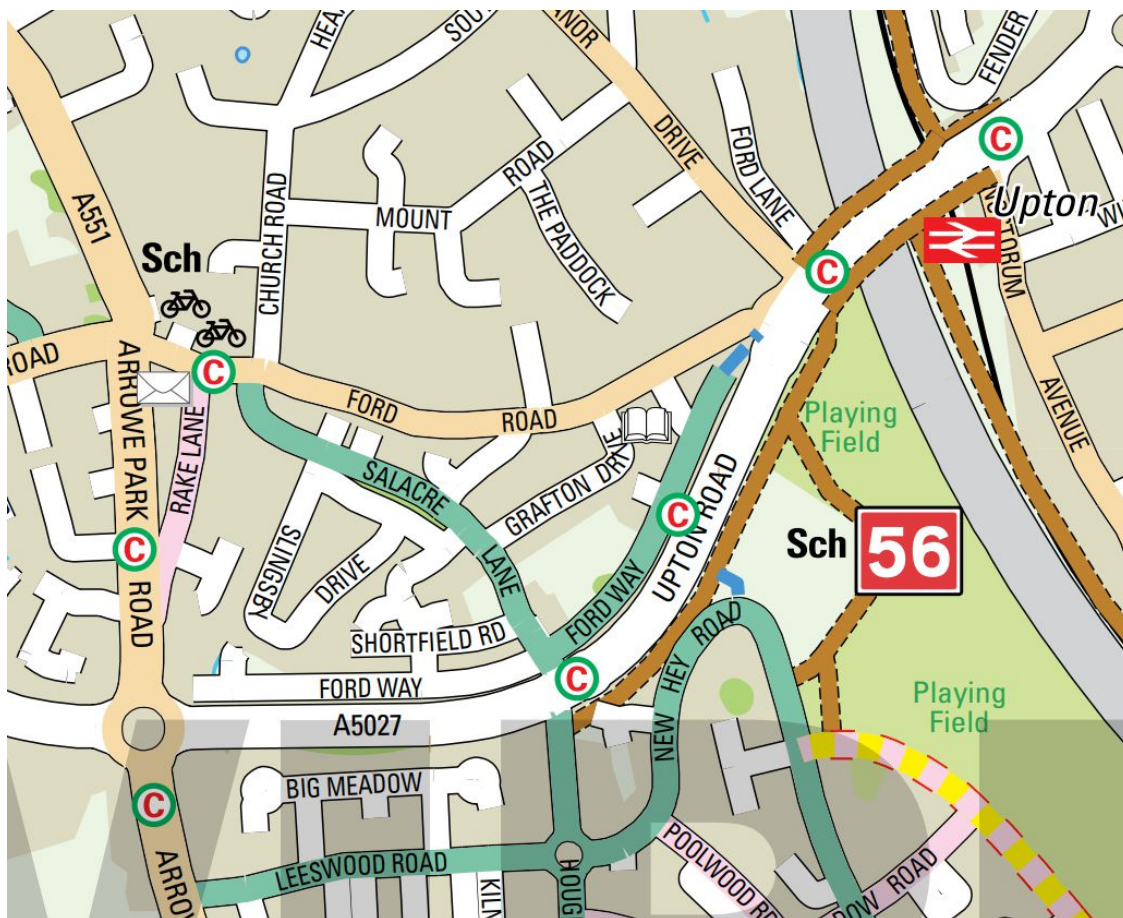


Figure 7: Extract from Wirral Cycle Map

Also to be seen from the Wirral Cycle Map, the application site is located within 375m of National Cycle Network Route 56 (Chester to Liverpool) which runs along Upton Road.

National Cycle Network Route 56 incorporates a series of quiet roads and traffic free paths extending from Chester past Upton to Wallasey, New Brighton, and Seacombe Ferry Terminal.

3.4 Rail

The application site is well located in relation to existing rail services, being located approximately 550m walking distance (7 minutes' walking time) of Upton rail station.

Upton station is on the Borderlands line and provides hourly services to local destinations including Bidston, Buckley, Hawarden, Heswall, Neston, Penyffordd, Shotton, and Wrexham. Half hourly services to Liverpool Central and West Kirby can also be accessed from Bidston.

Rail use will therefore also be a realistic option for future residents and visitors to the proposed development.

4. ACCESS ARRANGEMENTS

4.1 Existing Access

The site currently has no vehicular access points onto either Ford Road or Merrills Lane. Therefore, to facilitate demolition of the site and its proposed redevelopment, a new access needs to be created.

4.2 Proposed Site Access

The application seeks to provide a new 5.5m wide vehicular access onto Ford Road. The proposed vehicular access will also incorporate a 2.0m wide pedestrian footway on its eastern side and a 1.2m wide footway on its western side, to ensure safe and appropriate provision for pedestrians.

As can be seen on the proposed site plan, within the site where the access road narrows to 4.8m wide, with a 1.2m wide footway on its western side, a shared surface is proposed. The site access arrangements also include provision of a large turning head, to ensure delivery and service vehicles will be able to safely turn around within the site.

4.3 Bus Stop Relocation

As part of the proposed site access creation it will be necessary to relocate the existing bus stop from the site frontage on Ford Road. (Merseytravel ref: Ford Road opposite Wroxham Drive: STOP ID: S25114A).

Discussions with Merseytravel have already taken place regarding removal of the stop, which is also required in order to facilitate demolition of the existing church buildings. Demolition of the existing church buildings was approved by Wirral Council on the 5th March 2020. (Planning application ref: DEM/20/00163 'Application for prior notification for the demolition of the vacant former Upton United Reformed Church, with adjoining church hall and associated outbuildings.')

4.4 Accident History

The online resource 'Crashmap' has been assessed in relation to recorded personal injury accidents in the vicinity of the site, during the most recent 5-year period. As shown below in **Figure 8**, there has been only one accident recorded on Ford Road during the latest 5-year period (75m east of the site at the junction of Ford Road and Grafton Drive). There are therefore no obvious underlying highway safety issues associated with current operation of the local highway network.

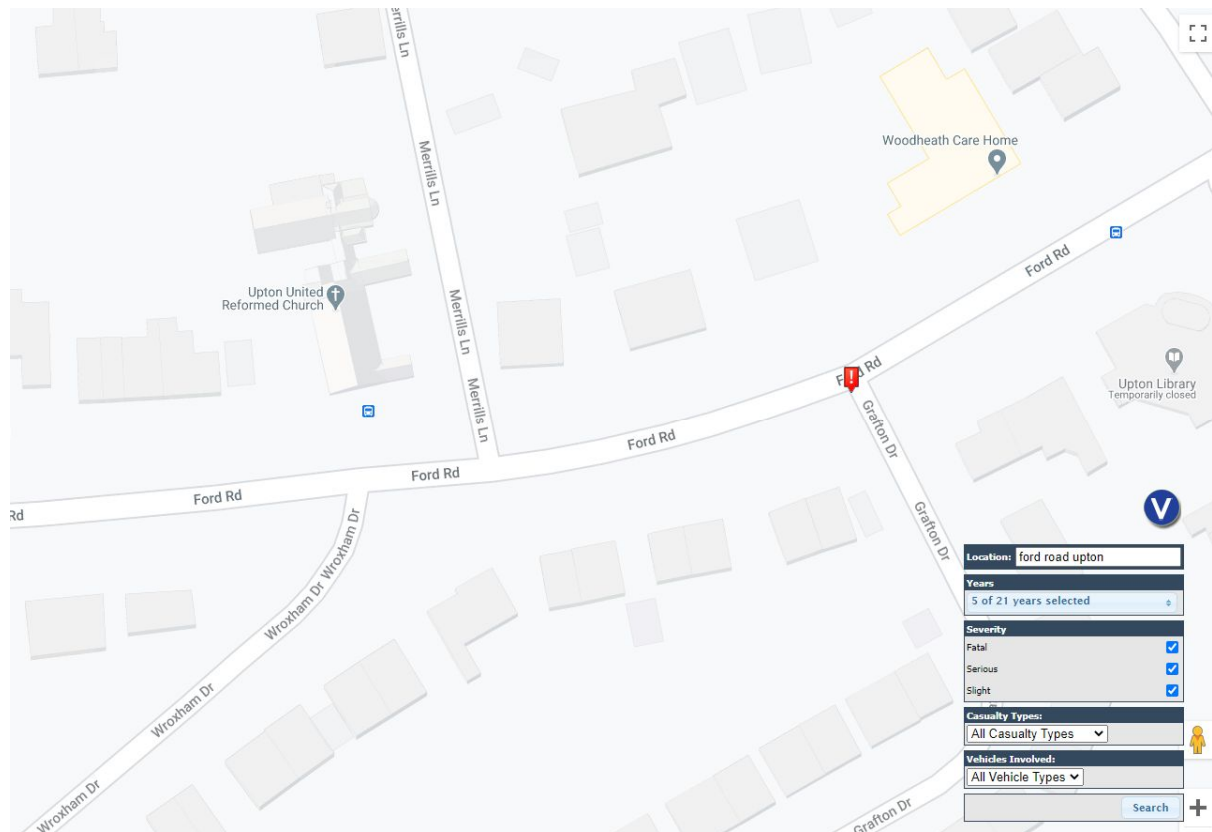


Figure 8: Latest 5-Year Personal Injury Accident Record

4.5 Access Visibility

Ford Road is subject to a 30mph speed limit. Therefore, to accord with advice contained in the guidance document 'Manual for Streets', minimum visibility splays of 2.4m x 43m should be provided from the proposed site access, in both directions to the nearest kerb-lines.

As shown on the proposed site layout plan, the right / western splay (in the critical leading direction of travel) measures 2.4m x 43m to the nearest kerb-line on Ford Road, in full accordance with 'Manual for Streets' standards.

However, in relation to the splay to the left / east, it can be noted that protected trees and the relatively narrow footway available on Ford Road mean that (to avoid damage to protected trees) it is only possible to provide a splay of 2.4m x 43m measured to 1m into the carriageway in this direction.

Para 10.5.3 of 'Manual for Streets 2 – Wider Application of the Principles' advises visibility splays have '*previously been measured alongside the nearside kerb line of the main arm, although vehicles will*

normally be travelling at a distance from the kerb line. Therefore, a more accurate assessment of visibility splay is made by measuring to the nearside edge of the vehicle track.'

As shown on the proposed site layout (extracted below in **Figure 9**), to the left / east it is possible to achieve a visibility splay of 2.4m x 43m measured to 1m into the carriageway. This will allow any vehicle travelling westwards on Ford Road to be clearly seen 43m away from the proposed site access.

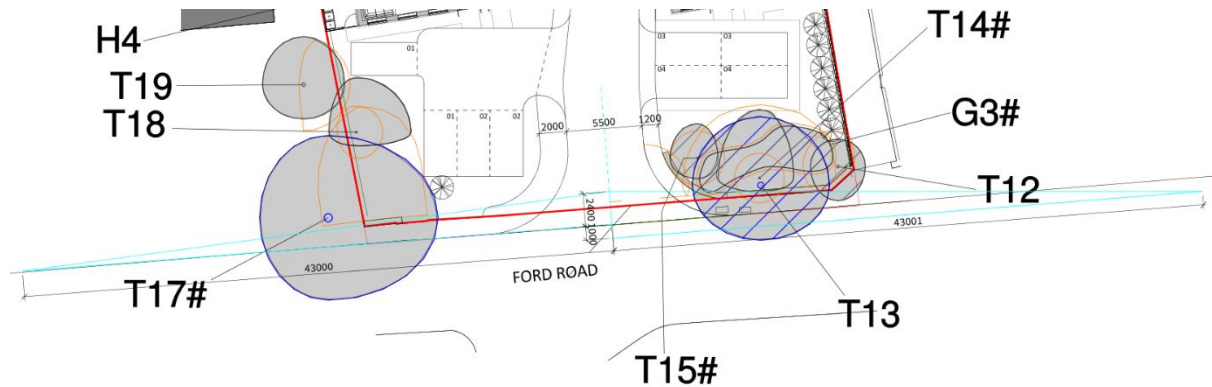


Figure 9: Proposed Visibility Splay Provision

Visibility splay provision is therefore in accordance with advice contained in 'Manual for Streets' and 'Manual for Streets 2' and will be sufficient to ensure the site access can operate safely.

4.6 Swept Path Analysis – Car Parking Areas

Drawing 2386-002 is attached as **Appendix A**. This demonstrates that a medium sized car (measuring 4.32m length x 1.69m width) can safely access and egress each of the car parking spaces in the proposed car parking areas to be provided adjacent to Ford Road.

4.7 Swept Path Analysis – Refuse Vehicle

Drawing number 2386-001 Rev A is attached as **Appendix B**. This demonstrates how a large refuse vehicle (measuring 11.34m length x 2.53m width) can safely access the proposed development, and turn on site, before exiting the site in a forward direction out onto Ford Road.

5. TRAFFIC GENERATION

5.1 Previous Land Use

The site was previously used as the Upton United Reformed Church. Therefore, in terms of traffic, it generated regular visits by members of the local congregation, with church services and other meetings taking place, particularly on evenings and weekends.

As the former church site included substantial gardens, the church would have also generated regular site maintenance and gardening visits, etc.

No on-site car parking provision ever existed to serve the former church, so all car parking demand generated by the site would have occurred on-street nearby on Ford Road or Wroxham Drive.

5.2 Proposed Land Use

As noted, the proposed development will comprise 8 semi-detached dwellings. To determine the likely number of trips to be generated by the proposed semi-detached houses, the TRICS database has been interrogated. The TRICS printouts relative to this analysis are attached as **Appendix C**.

5.2.1 Expected Traffic Generation – C3 Residential (8 Dwellings)

The typical trip rates for C3 residential use are shown in **Table 2** below.

Time Period	Trip Rates		Total Trips
	Arrivals	Departures	
0800 - 0900	0.122	0.360	0.482
1700 - 1800	0.320	0.142	0.462
Daily	2.137	2.196	4.333

Table 2: Residential Trip Rates (Per Dwelling)

As shown next in **Table 3**, it can be seen the 8-unit residential scheme could be expected to generate around 4 vehicular trips (arrivals and departures) in each of the AM and PM peak hour periods, and around 35 vehicular trips per day in total.

Time Period	Trips		Total Trips
	Arrivals	Departures	
0800 - 0900	0.976	2.880	3.856
1700 - 1800	2.560	1.136	3.696
Daily	17.096	17.568	34.664

Table 3: Residential Trips (8 Dwellings)

The relatively low level of traffic to be generated by the proposals is not expected to materially affect performance of the local highway network, or to have any detrimental traffic impact.

6. PARKING

The Wirral Council Supplementary Planning Document 'SPD4 - Parking Standards' (June 2007) provides maximum car parking standards for new C3 residential development proposals in the Wirral. The standards advise that maximum car parking provision for residential dwellings should be as detailed below in **Table 4**.

Land Use	Sub Category	Maximum Standard
C3	Residential Dwellings (2 Bedrooms)	1.5 spaces
	Residential Dwellings (3+ Bedrooms)	2 spaces

Table 4: Wirral Council Car Parking Standards

When applied to the proposed development, the standards advise that 16 car parking spaces would be the maximum number of car parking spaces allowable in this instance.

As shown on the proposed site plan, each semi-detached dwelling will have two dedicated car parking spaces, in accordance with Wirral Council's adopted maximum car parking standards.

7. SUMMARY AND CONCLUSIONS

This Transport Statement has reviewed the highways and transportation issues associated with the proposed development of 8 semi-detached residential dwellings, and has noted that:

- The proposed development site is in a highly accessible urban location, 315m walking distance (approximately 4 minutes' walk) from a wide range of local amenities, businesses, and services available in Upton local centre.
- The site is well located in relation to sustainable travel options. It is within 140m walking distance of two bus stops on Ford Road providing access to Birkenhead, Eastham Rake, Gayton, Liverpool, Moreton, New Ferry, Oxton and West Kirby, and is also within 550m walking distance of Upton rail station, which provides hourly services to Bidston and Wrexham.
- The proposed site access arrangement onto Ford Road incorporate visibility splays of 2.4m x 43m to the nearest kerb line in the critical leading direction, and 2.4m x 43m (measured to 1m into the carriageway) in the non-critical direction, in accordance with 'Manual for Streets' standards.
- The accident history of the local highway network during the most recent 5-year period has been investigated. There are no obvious underlying highway safety issues associated with operation of the local highway network.
- The proposed development seeks to provide 16 car parking spaces to serve the proposals. This level of car parking provision accords with Wirral Council's maximum car parking standards for residential dwellings.
- Swept path assessments demonstrate the proposed site access arrangements can safely accommodate a large 11.34m length refuse vehicle turning on site, and that the proposed car parking areas adjacent to Ford Road are workable.
- The proposed residential development would (as a worst-case scenario) generate only 4 vehicular trips in each of the AM and PM peak hour periods, and around 35 vehicular trips per day in total. This low level of traffic can be easily accommodated on the local highway network without any detrimental impact.

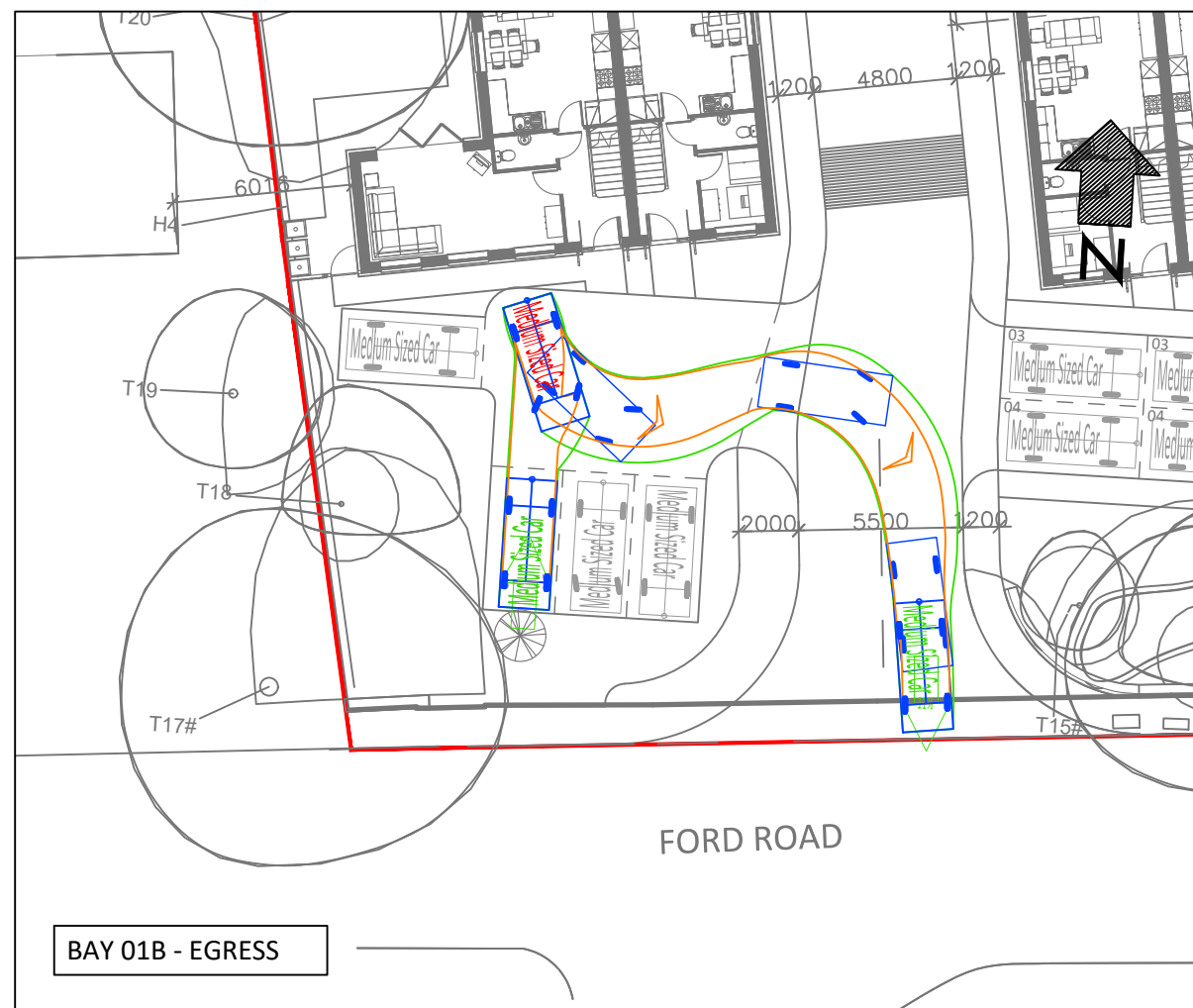
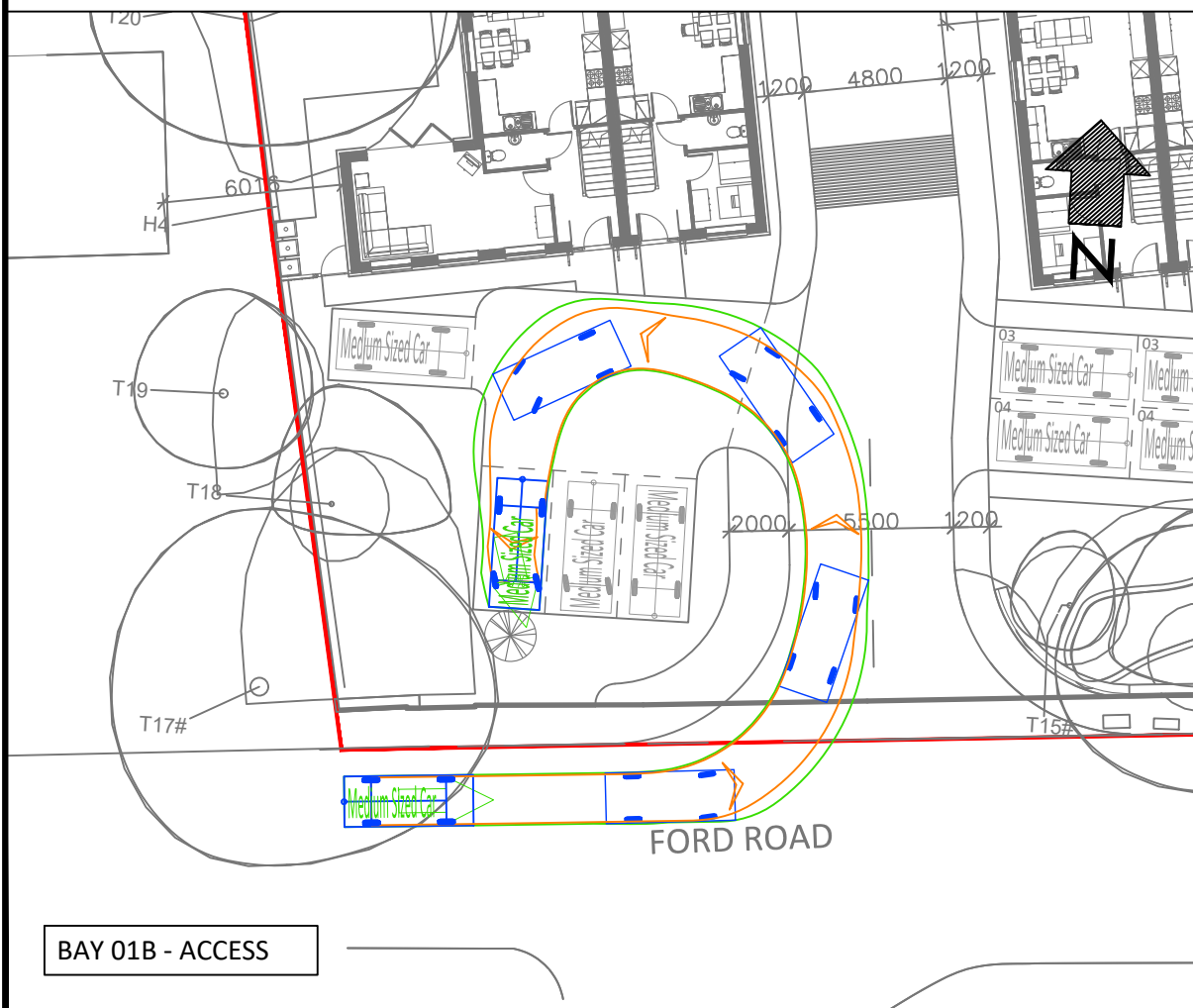
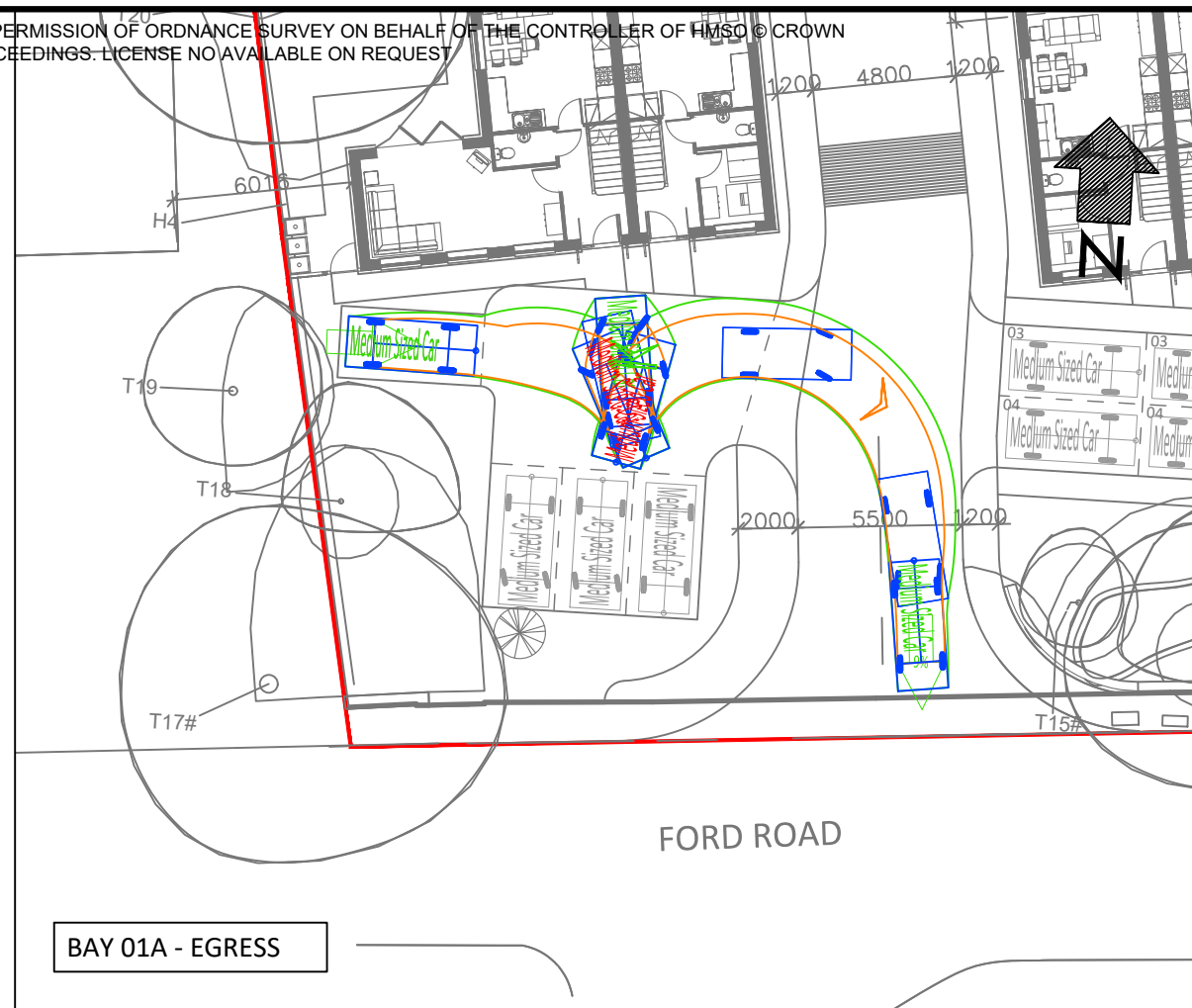
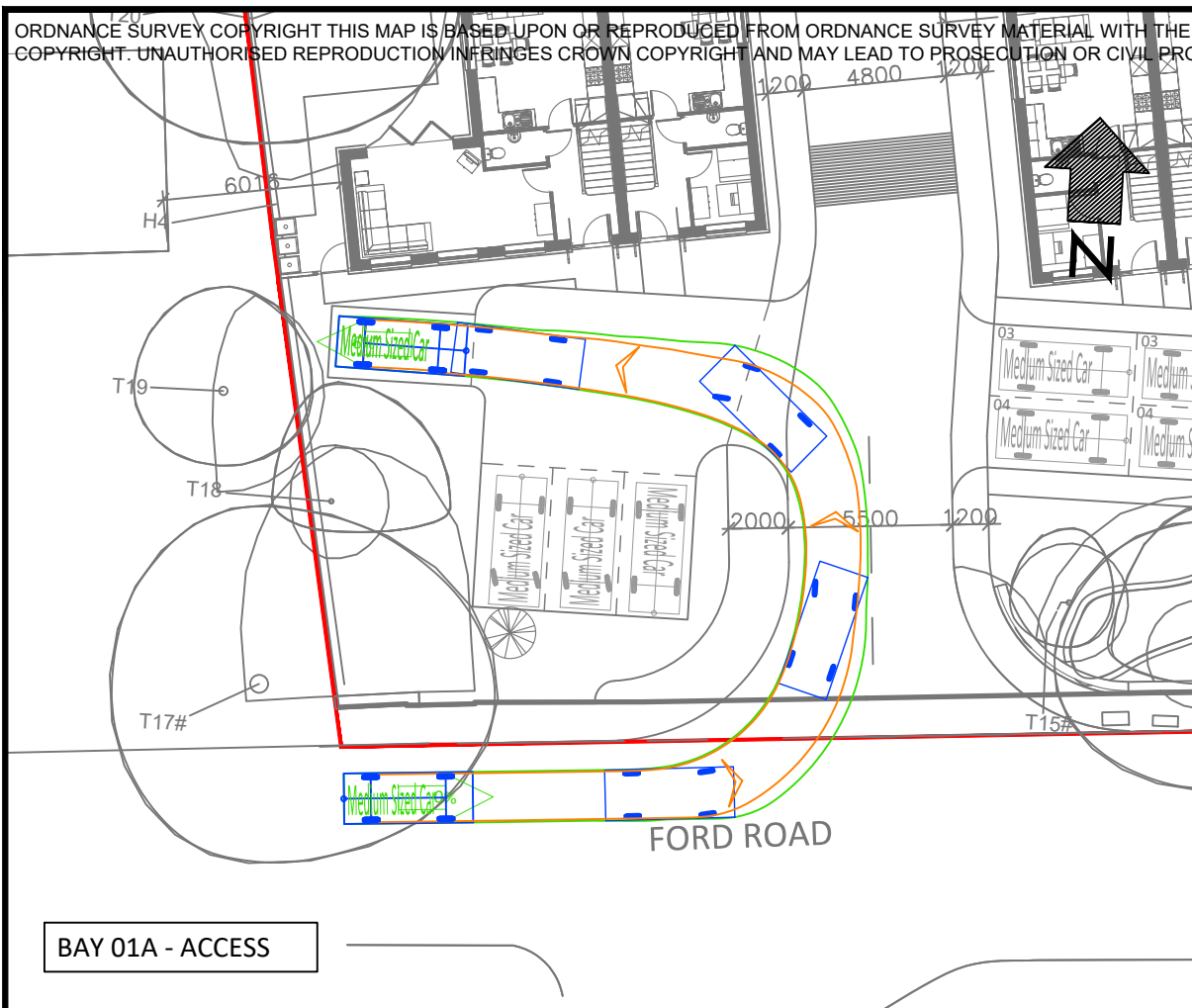
In conclusion, it is considered the proposed development is acceptable in respect of transport and highways matters and can therefore be recommended for planning approval.

APPENDICES

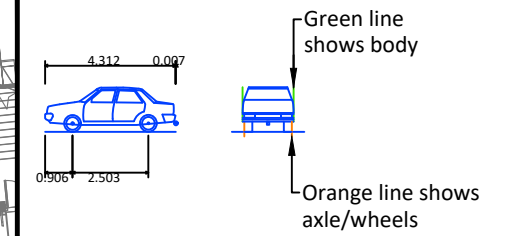
A - SWEPT PATH ANALYSIS - MEDIUM SIZED CAR

B - SWEPT PATH ANALYSIS - 11.34m REFUSE VEHICLE

C - TRICS DATA



VEHICLE DETAILS:



MEDIUM SIZED CAR

Overall Length	4.319m
Overall Width	1.686m
Overall Body Height	1.466m
Min Body Ground Clearance	0.228m
Track Width	1.591m
Lock to Lock Time	4.00s
Kerb to Kerb Turning Radius	5.042m

Design speed 5kph for all Forward movements
Design speed 2.5kph for all Reverse movements

Rev	Date	Description	Drn	Chk	App
-	11/01/21	ORIGINAL ISSUE	AS	AB	AB

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Project

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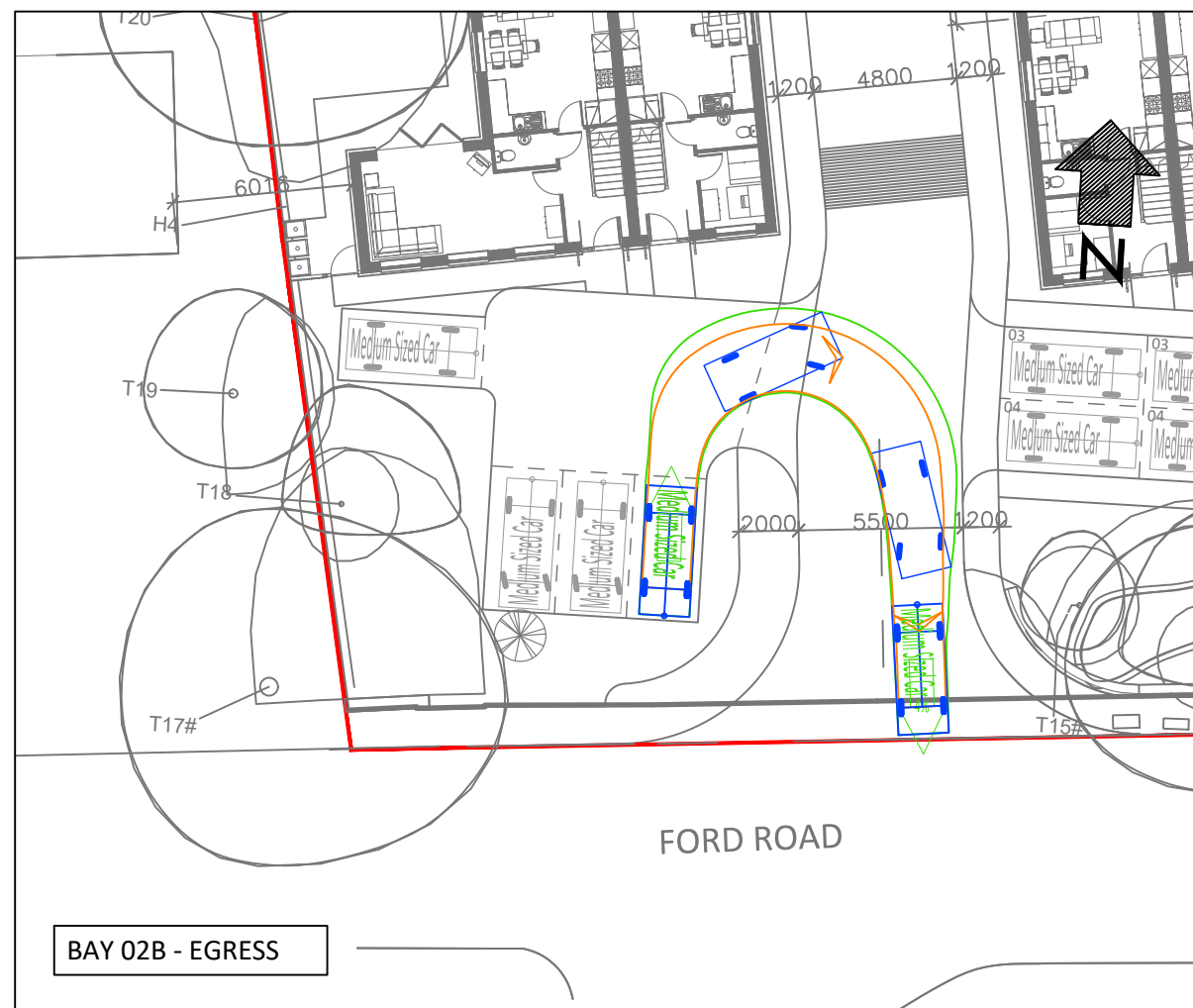
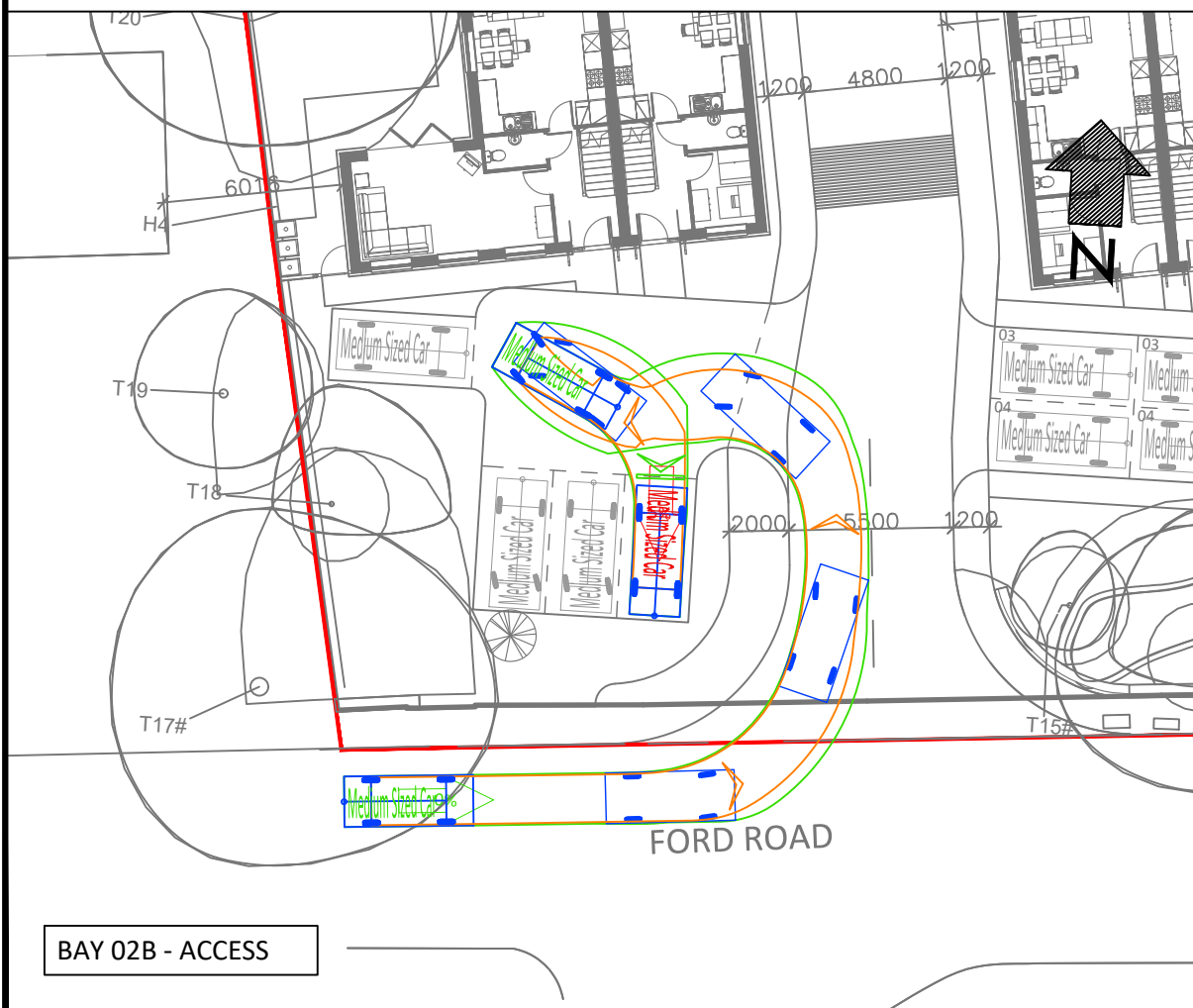
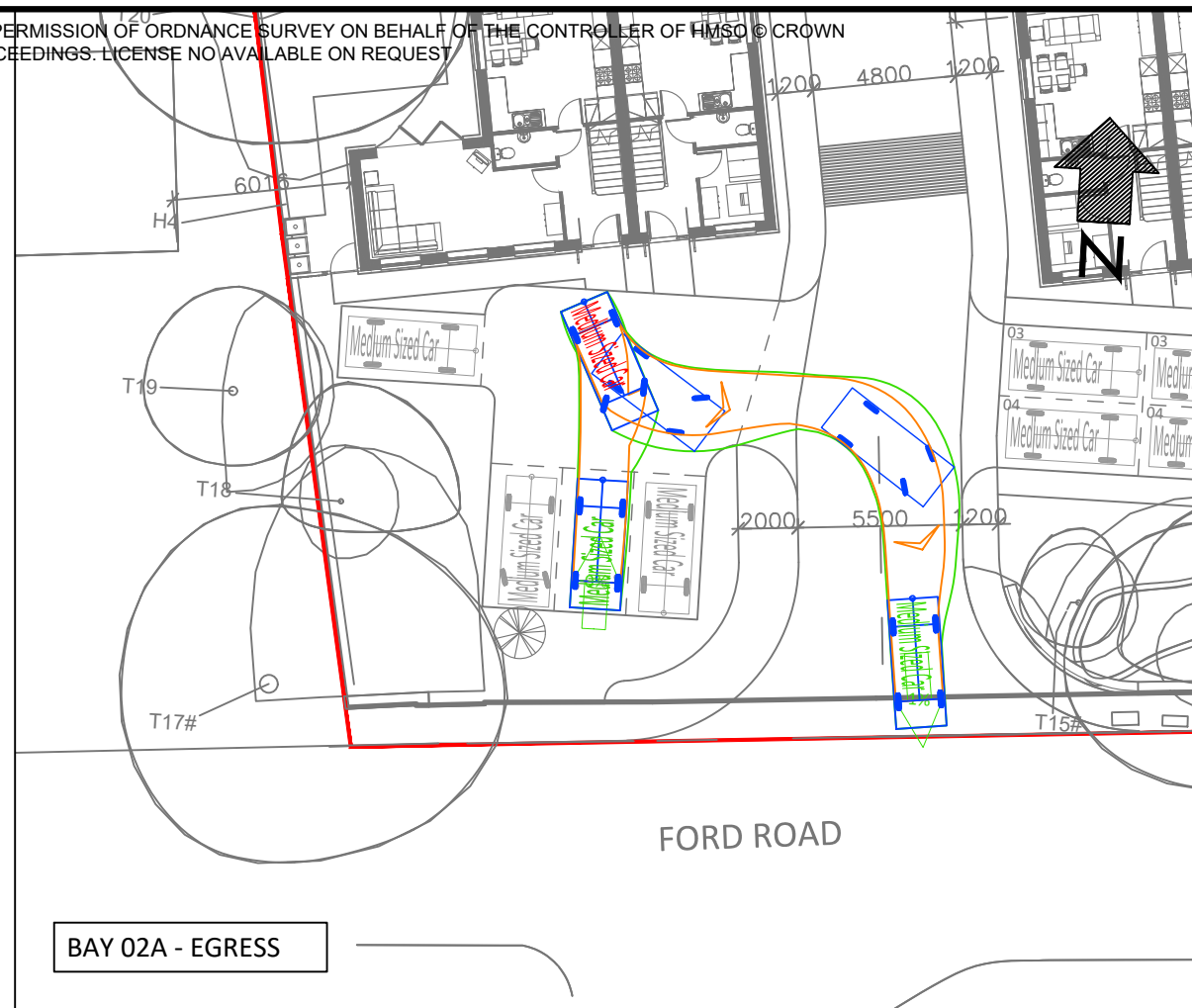
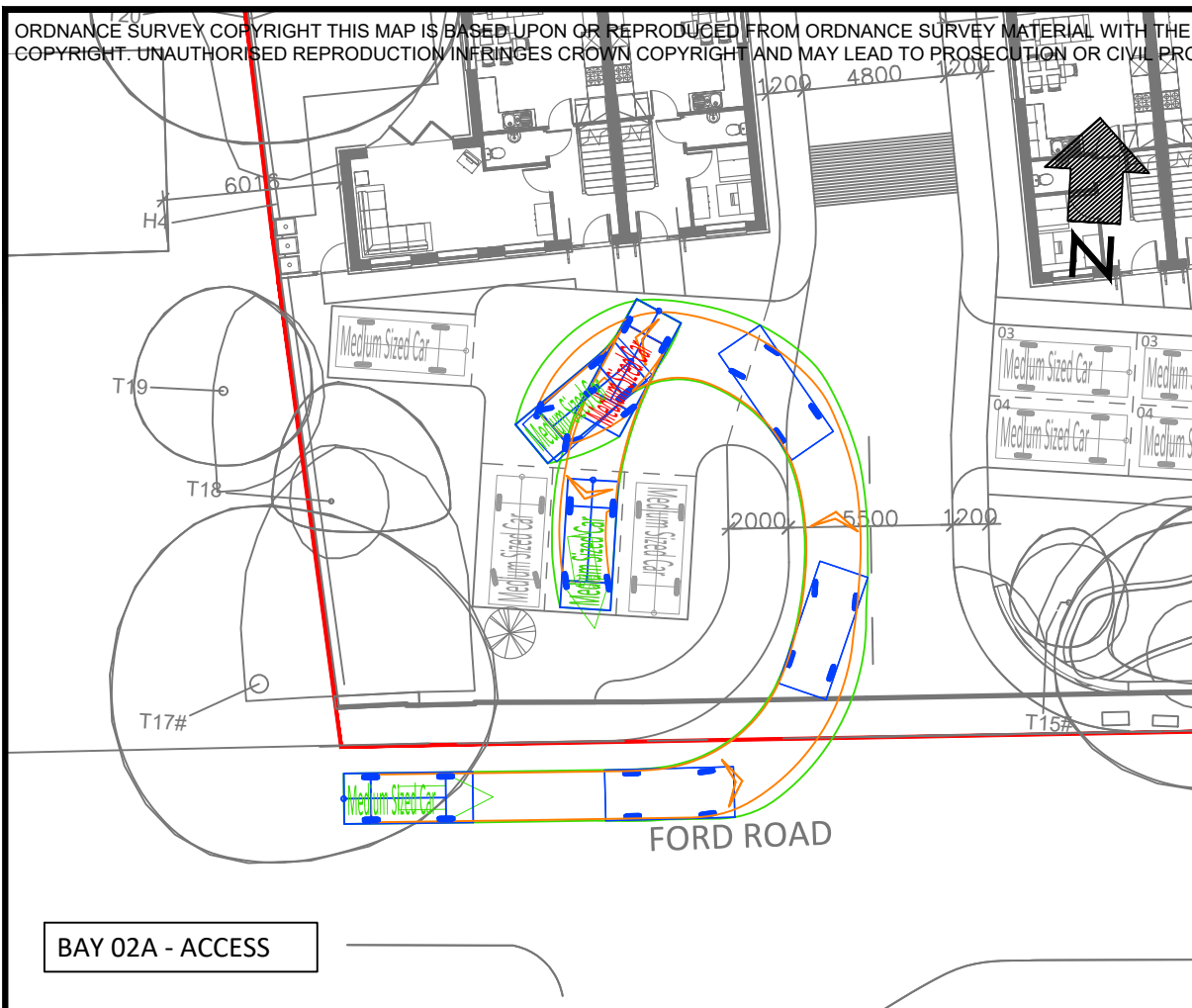
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SWEPT PATH ANALYSIS USING A
MEDIUM SIZE CAR
SHEET 1 OF 3

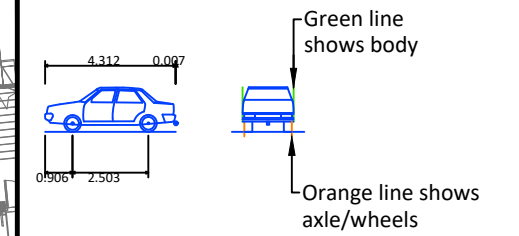
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FOR PLANNING

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Drawing No. 2386-002				Rev -



VEHICLE DETAILS:



MEDIUM SIZED CAR

Overall Length	4.319m
Overall Width	1.686m
Overall Body Height	1.466m
Min Body Ground Clearance	0.228m
Track Width	1.591m
Lock to Lock Time	4.00s
Kerb to Kerb Turning Radius	5.042m

Design speed 5kph for all Forward movements
Design speed 2.5kph for all Reverse movements

Rev	Date	Description	Drn	Chk	App
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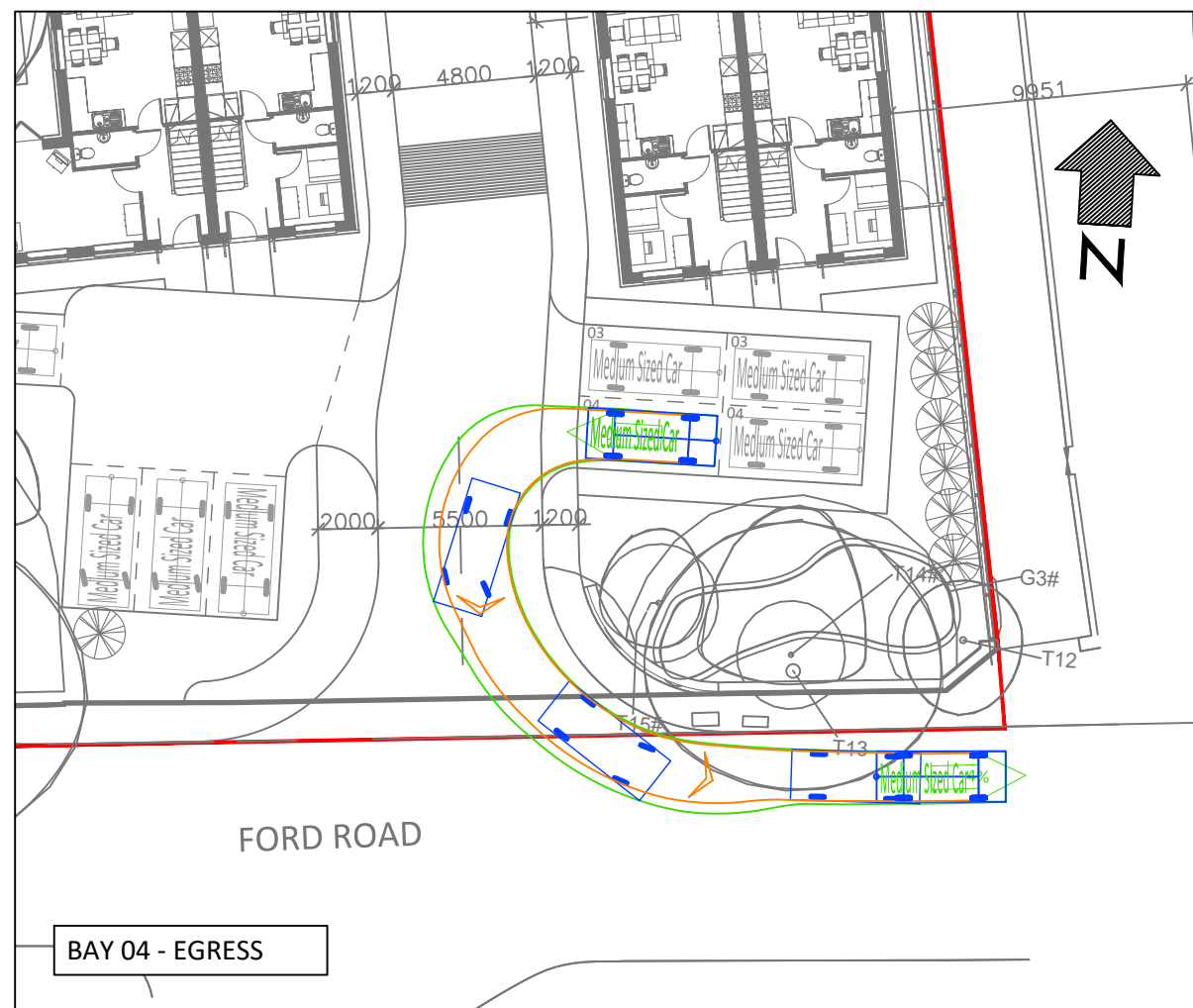
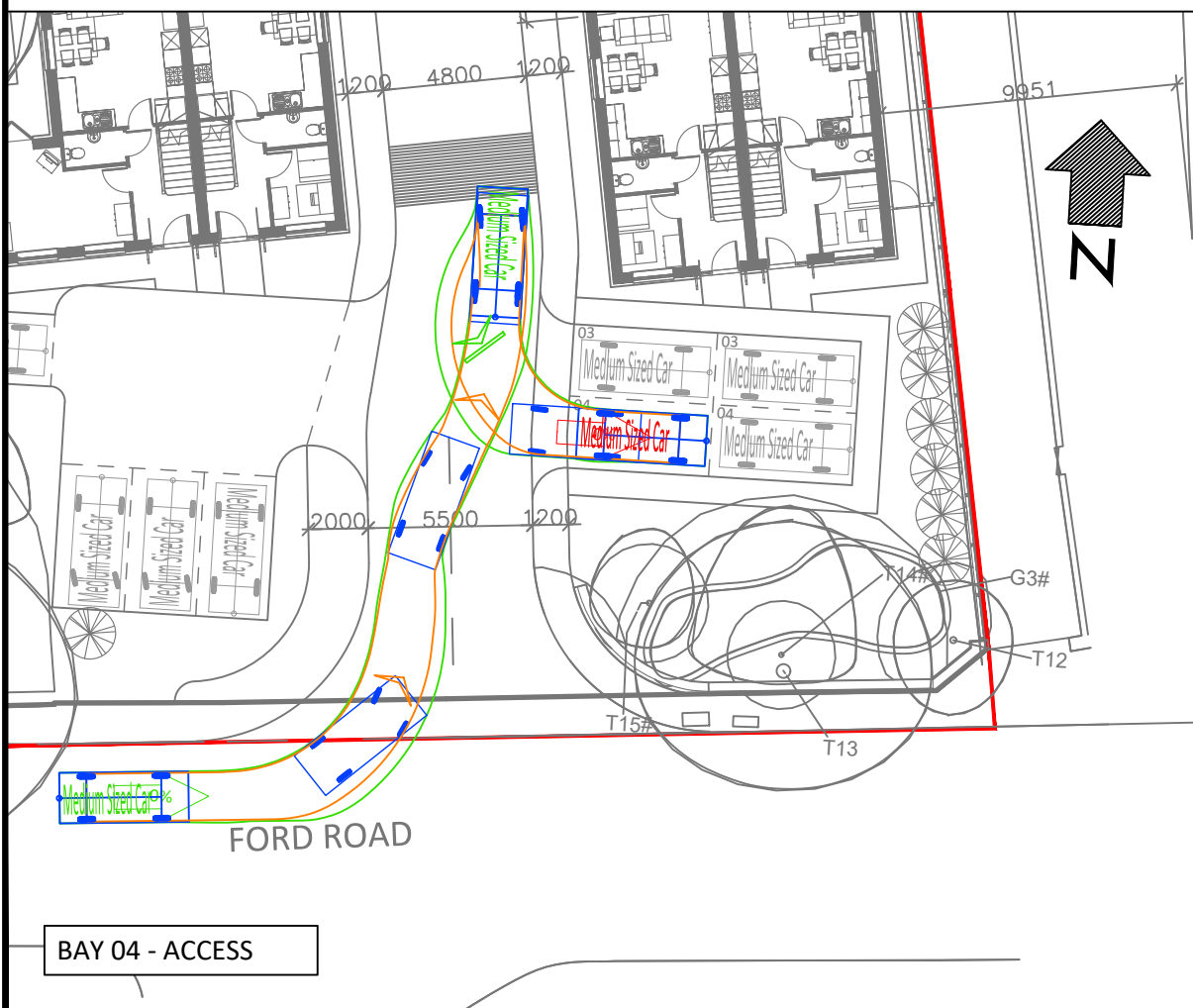
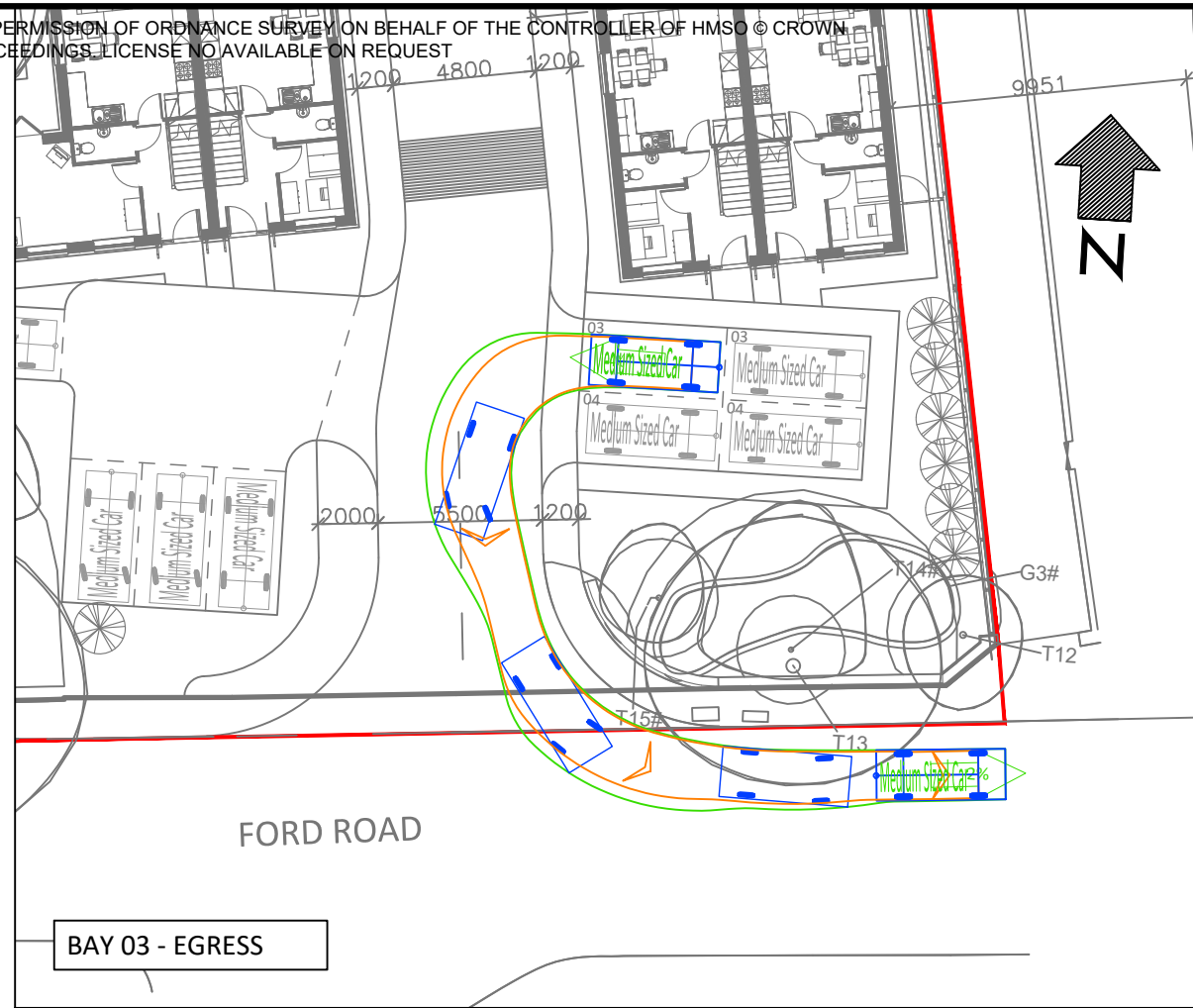
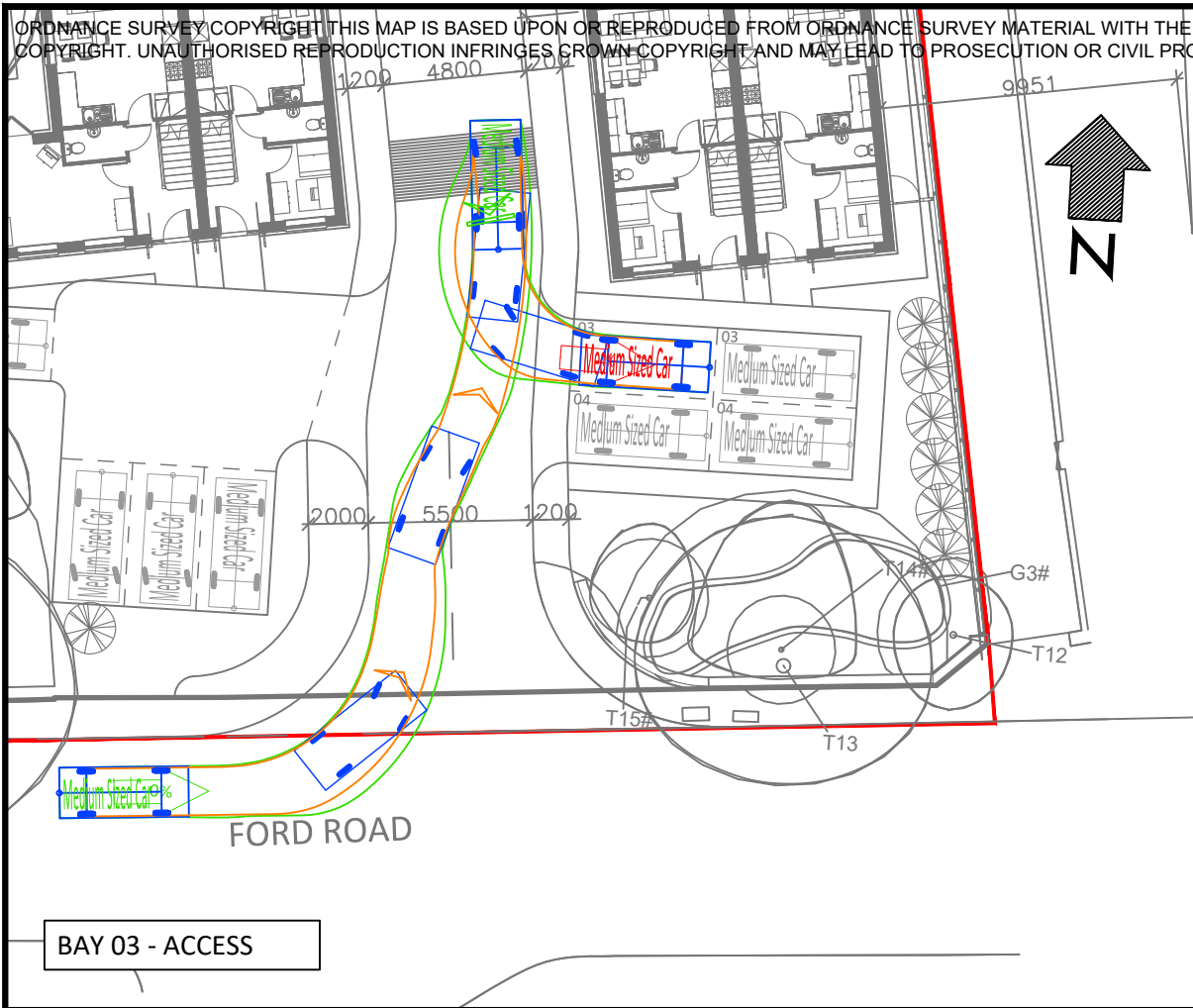
SWEPT PATH ANALYSIS USING A MEDIUM SIZE CAR
SHEET 2 OF 3

Drawing Status

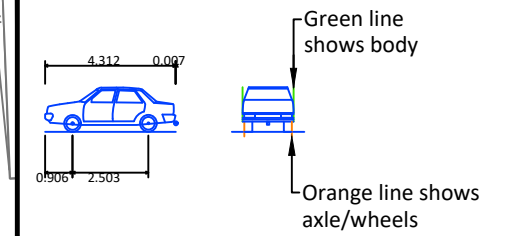
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Drawing No. 2386-002				Rev -

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VEHICLE DETAILS:



MEDIUM SIZED CAR

- Overall Length 4.319m
- Overall Width 1.686m
- Overall Body Height 1.466m
- Min Body Ground Clearance 0.228m
- Track Width 1.591m
- Lock to Lock Time 4.00s
- Kerb to Kerb Turning Radius 5.042m

Design speed 5kph for all Forward movements
Design speed 2.5kph for all Reverse movements

Rev	Date	Description	Drn	Chk	App
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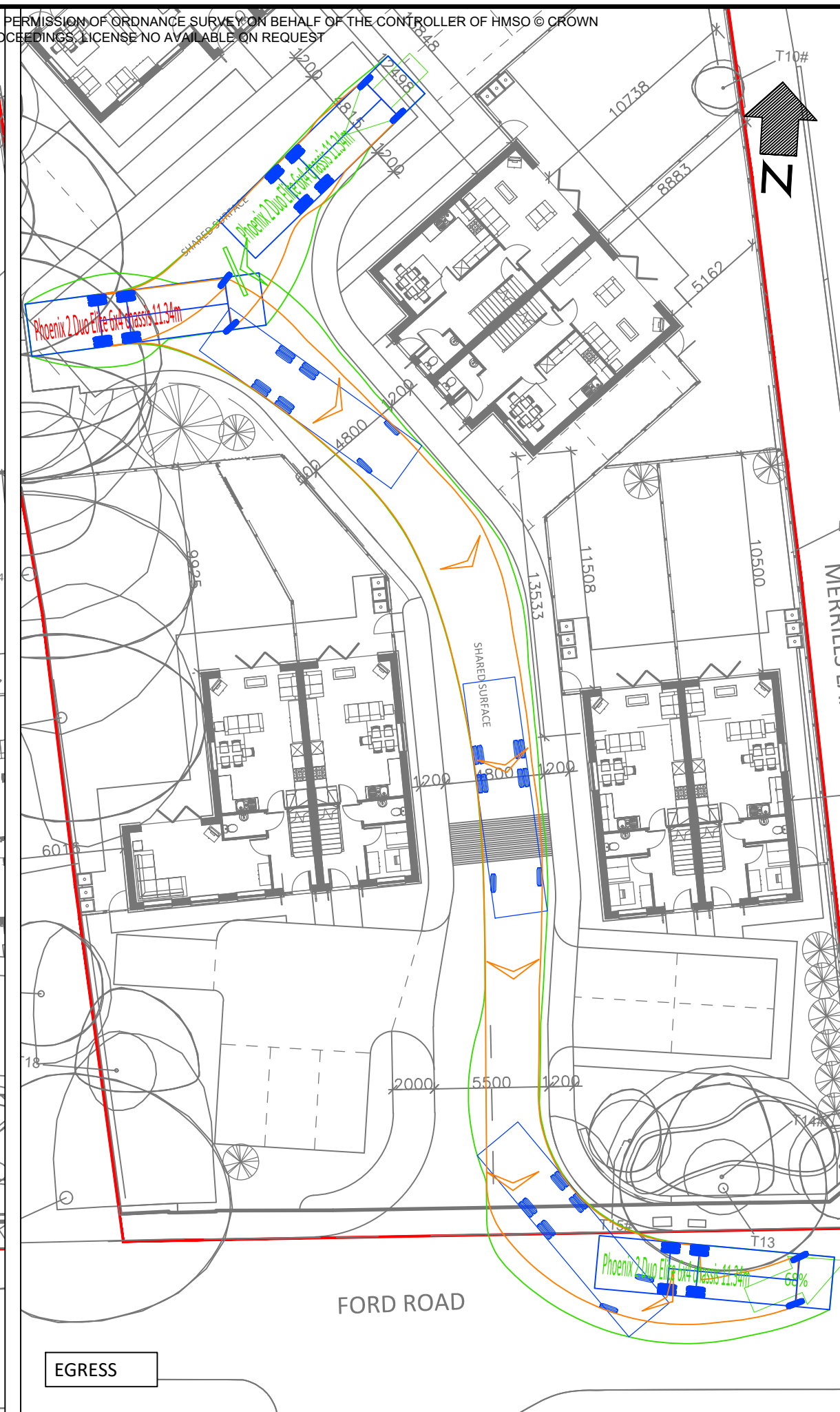
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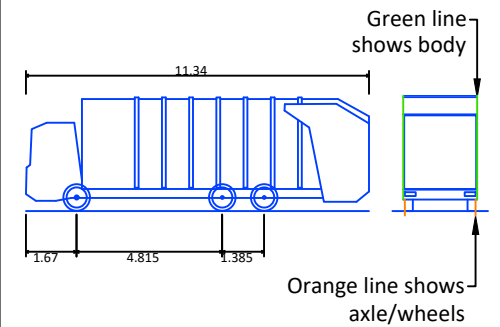
Drawing Title SWEPT PATH ANALYSIS USING A MEDIUM SIZE CAR
SHEET 3 OF 3

Drawing Status **FOR PLANNING**

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Drawing No. 2386-002	Rev -			



VEHICLE DETAILS:



PHOENIX 2 DUO ELITE 6X4 CHASSIS

Overall Length	11.340m
Overall Width	2.530m
Overall Body Height	3.751m
Min Body Ground Clearance	0.304m
Track Width	2.500m
Lock to Lock Time	4.00s
Kerb to Kerb Turning Radius	9.500m

Design speed 5kph for all Forward movements
Design speed 2.5kph for all Reverse movements

Rev	Date	Description	Dwn	Chk	App
A	11/01/21	LAYOUT & TRACKING UPDATED	AS	AB	AB
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Client	WORKING ON BEHALF OF
	HAMILTON CHURCH LTD

Project	UPTON URC FORD ROAD, WIRRAL
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Drawing Title	SWEPT PATH ANALYSIS USING A 11.34M REFUSE VEHICLE
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Drawing Status	FOR PLANNING								
Drawn	AS	Designed	AB	Date	SEPT 20	Scale	1:250	Size	A3
Drawing No.	2386-001	Rev	A						

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED

MULTI-MODAL VEHICLESSelected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	3 days
	HC HAMPSHIRE	3 days
	KC KENT	6 days
	SC SURREY	1 days
	WS WEST SUSSEX	7 days
03	SOUTH WEST	
	DC DORSET	1 days
	DV DEVON	3 days
	SM SOMERSET	1 days
	WL WILTSHIRE	1 days
04	EAST ANGLIA	
	CA CAMBRIDGESHIRE	2 days
	NF NORFOLK	3 days
	SF SUFFOLK	3 days
05	EAST MIDLANDS	
	DS DERBYSHIRE	1 days
	LE LEICESTERSHIRE	1 days
	LN LINCOLNSHIRE	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	2 days
	ST STAFFORDSHIRE	1 days
	WK WARWICKSHIRE	2 days
	WM WEST MIDLANDS	1 days
	WO WORCESTERSHIRE	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NE NORTH EAST LINCOLNSHIRE	1 days
	NY NORTH YORKSHIRE	6 days
	SY SOUTH YORKSHIRE	1 days
08	NORTH WEST	
	CH CHESHIRE	2 days
	GM GREATER MANCHESTER	1 days
	MS MERSEYSIDE	1 days
09	NORTH	
	DH DURHAM	2 days
	TW TYNE & WEAR	1 days

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

Secondary Filtering 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: Number of dwellings
Actual Range: 6 to 805 (units:)
Range Selected by User: 6 to 805 (units:)

Parking Spaces Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/11 to 20/11/18

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	12 days
Tuesday	12 days
Wednesday	13 days
Thursday	13 days
Friday	9 days

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

Selected survey types:

Manual count	59 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)	25
Edge of Town	27
Neighbourhood Centre (PPS6 Local Centre)	7

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:

Residential Zone	52
Village	5
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.

Secondary Filtering selection:Use Class:

C3	59 days
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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:

1,000 or Less	2 days
1,001 to 5,000	10 days
5,001 to 10,000	11 days
10,001 to 15,000	15 days
15,001 to 20,000	9 days
20,001 to 25,000	6 days
25,001 to 50,000	6 days

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

Secondary Filtering selection (Cont.):Population within 5 miles:

5,001 to 25,000	6 days
25,001 to 50,000	6 days
50,001 to 75,000	8 days
75,001 to 100,000	13 days
100,001 to 125,000	2 days
125,001 to 250,000	17 days
250,001 to 500,000	6 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	17 days
1.1 to 1.5	40 days
1.6 to 2.0	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:

Yes	10 days
No	49 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.

PTAL Rating:

No PTAL Present	59 days
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This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1	CA-03-A-04	DETACHED	CAMBRIDGESHIRE
	PETERBOROUGH THORPE PARK ROAD Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 9 Survey date: TUESDAY 18/10/11		Survey Type: MANUAL
2	CA-03-A-05	DETACHED HOUSES	CAMBRIDGESHIRE
	EASTFIELD ROAD PETERBOROUGH Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 28 Survey date: MONDAY 17/10/16		Survey Type: MANUAL
3	CH-03-A-08	DETACHED	CHESHIRE
	WHITCHURCH ROAD CHESTER BOUGHTON HEATH Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 11 Survey date: TUESDAY 22/05/12		Survey Type: MANUAL
4	CH-03-A-09	TERRACED HOUSES	CHESHIRE
	GREYSTOKE ROAD MACCLESFIELD HURDSFIELD Edge of Town Residential Zone Total Number of dwellings: 24 Survey date: MONDAY 24/11/14		Survey Type: MANUAL
5	DC-03-A-08	BUNGALOWS	DORSET
	HURSTDENE ROAD BOURNEMOUTH CASTLE LANE WEST Edge of Town Residential Zone Total Number of dwellings: 28 Survey date: MONDAY 24/03/14		Survey Type: MANUAL
6	DH-03-A-01	SEMI DETACHED	DURHAM
	GREENFIELDS ROAD BISHOP AUCKLAND Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 50 Survey date: TUESDAY 28/03/17		Survey Type: MANUAL
7	DH-03-A-02	MIXED HOUSES	DURHAM
	LEAZES LANE BISHOP AUCKLAND ST HELEN AUCKLAND Neighbourhood Centre (PPS6 Local Centre) Residential Zone Total Number of dwellings: 125 Survey date: MONDAY 27/03/17		Survey Type: MANUAL
8	DS-03-A-02	MIXED HOUSES	DERBYSHIRE
	RADBOURNE LANE DERBY Edge of Town Residential Zone Total Number of dwellings: 371 Survey date: TUESDAY 10/07/18		Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

9	DV-03-A-01	TERRACED HOUSES	DEVON
	BRONSHILL ROAD TORQUAY		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	37	
	Survey date: WEDNESDAY	30/09/15	Survey Type: MANUAL
10	DV-03-A-02	HOUSES & BUNGALOWS	DEVON
	MILLHEAD ROAD HONITON		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	116	
	Survey date: FRIDAY	25/09/15	Survey Type: MANUAL
11	DV-03-A-03	TERRACED & SEMI DETACHED	DEVON
	LOWER BRAND LANE HONITON		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	70	
	Survey date: MONDAY	28/09/15	Survey Type: MANUAL
12	ES-03-A-02	PRIVATE HOUSING	EAST SUSSEX
	SOUTH COAST ROAD PEACEHAVEN		
	Edge of Town Residential Zone		
	Total Number of dwellings:	37	
	Survey date: FRIDAY	18/11/11	Survey Type: MANUAL
13	ES-03-A-03	MIXED HOUSES & FLATS	EAST SUSSEX
	SHEPHAM LANE POLEGATE		
	Edge of Town Residential Zone		
	Total Number of dwellings:	212	
	Survey date: MONDAY	11/07/16	Survey Type: MANUAL
14	ES-03-A-04	MIXED HOUSES & FLATS	EAST SUSSEX
	NEW LYDD ROAD CAMBER		
	Edge of Town Residential Zone		
	Total Number of dwellings:	134	
	Survey date: FRIDAY	15/07/16	Survey Type: MANUAL
15	GM-03-A-10	DETACHED/SEMI	GREATER MANCHESTER
	BUTT HILL DRIVE MANCHESTER PRESTWICH		
	Edge of Town Residential Zone		
	Total Number of dwellings:	29	
	Survey date: WEDNESDAY	12/10/11	Survey Type: MANUAL
16	HC-03-A-20	HOUSES & FLATS	HAMPSHIRE
	CANADA WAY LIPHOOK		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	62	
	Survey date: TUESDAY	20/11/18	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

17	HC-03-A-21	TERRACED & SEMI-DETACHED	HAMPSHIRE
	PRIESTLEY ROAD BASINGSTOKE HOUNDMILLS Edge of Town Residential Zone Total Number of dwellings: 39 Survey date: <i>TUESDAY</i> 13/11/18		<i>Survey Type: MANUAL</i>
18	HC-03-A-22	MIXED HOUSES	HAMPSHIRE
	BOW LAKE GARDENS NEAR EASTLEIGH BISHOPSTOKE Edge of Town Residential Zone Total Number of dwellings: 40 Survey date: <i>WEDNESDAY</i> 31/10/18		<i>Survey Type: MANUAL</i>
19	KC-03-A-03	MIXED HOUSES & FLATS	KENT
	HYTHE ROAD ASHFORD WILLESBOROUGH Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 51 Survey date: <i>THURSDAY</i> 14/07/16		<i>Survey Type: MANUAL</i>
20	KC-03-A-04	SEMI-DETACHED & TERRACED	KENT
	KILN BARN ROAD AYLESFORD DITTON Edge of Town Residential Zone Total Number of dwellings: 110 Survey date: <i>FRIDAY</i> 22/09/17		<i>Survey Type: MANUAL</i>
21	KC-03-A-05	DETACHED & SEMI-DETACHED	KENT
	ROCHESTER ROAD NEAR CHATHAM BURHAM Neighbourhood Centre (PPS6 Local Centre) Village Total Number of dwellings: 8 Survey date: <i>FRIDAY</i> 22/09/17		<i>Survey Type: MANUAL</i>
22	KC-03-A-06	MIXED HOUSES & FLATS	KENT
	MARGATE ROAD HERNE BAY Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 363 Survey date: <i>WEDNESDAY</i> 27/09/17		<i>Survey Type: MANUAL</i>
23	KC-03-A-07	MIXED HOUSES	KENT
	RECVLVER ROAD HERNE BAY Edge of Town Residential Zone Total Number of dwellings: 288 Survey date: <i>WEDNESDAY</i> 27/09/17		<i>Survey Type: MANUAL</i>
24	KC-03-A-08	MIXED HOUSES	KENT
	MAIDSTONE ROAD CHARING Neighbourhood Centre (PPS6 Local Centre) Village Total Number of dwellings: 159 Survey date: <i>TUESDAY</i> 22/05/18		<i>Survey Type: MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

25	LE-03-A-02	DETACHED & OTHERS	LEICESTERSHIRE
	MELBOURNE ROAD IBSTOCK		
	Neighbourhood Centre (PPS6 Local Centre) Village		
	Total Number of dwellings:	85	
	Survey date: THURSDAY	28/06/18	Survey Type: MANUAL
26	LN-03-A-03	SEMI DETACHED	LINCOLNSHIRE
	ROOKERY LANE LINCOLN BOULTHAM		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	22	
	Survey date: TUESDAY	18/09/12	Survey Type: MANUAL
27	MS-03-A-03	DETACHED	MERSEYSIDE
	BEMPTON ROAD LIVERPOOL OTTERSPOOL		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	15	
	Survey date: FRIDAY	21/06/13	Survey Type: MANUAL
28	NE-03-A-02	SEMI DETACHED & DETACHED	NORTH EAST LINCOLNSHIRE
	HANOVER WALK SCUNTHORPE		
	Edge of Town No Sub Category		
	Total Number of dwellings:	432	
	Survey date: MONDAY	12/05/14	Survey Type: MANUAL
29	NF-03-A-01	SEMI DET. & BUNGALOWS	NORFOLK
	YARMOUTH ROAD CAISTER-ON-SEA		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	27	
	Survey date: TUESDAY	16/10/12	Survey Type: MANUAL
30	NF-03-A-02	HOUSES & FLATS	NORFOLK
	DEREHAM ROAD NORWICH		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	98	
	Survey date: MONDAY	22/10/12	Survey Type: MANUAL
31	NF-03-A-03	DETACHED HOUSES	NORFOLK
	HALING WAY THETFORD		
	Edge of Town Residential Zone		
	Total Number of dwellings:	10	
	Survey date: WEDNESDAY	16/09/15	Survey Type: MANUAL
32	NY-03-A-06	BUNGALOWS & SEMI DET.	NORTH YORKSHIRE
	HORSEFAIR BOROUGHBRIDGE		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	115	
	Survey date: FRIDAY	14/10/11	Survey Type: MANUAL
33	NY-03-A-08	TERRACED HOUSES	NORTH YORKSHIRE
	NICHOLAS STREET YORK		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	21	
	Survey date: MONDAY	16/09/13	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

34	NY-03-A-09	MIXED HOUSING	NORTH YORKSHIRE
	GRAMMAR SCHOOL LANE NORTHALLERTON		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	52	
	Survey date: MONDAY	16/09/13	Survey Type: MANUAL
35	NY-03-A-10	HOUSES AND FLATS	NORTH YORKSHIRE
	BOROUGHBRIDGE ROAD RIPON		
	Edge of Town No Sub Category		
	Total Number of dwellings:	71	
	Survey date: TUESDAY	17/09/13	Survey Type: MANUAL
36	NY-03-A-11	PRIVATE HOUSING	NORTH YORKSHIRE
	HORSEFAIR BOROUGHBRIDGE		
	Edge of Town Residential Zone		
	Total Number of dwellings:	23	
	Survey date: WEDNESDAY	18/09/13	Survey Type: MANUAL
37	NY-03-A-13	TERRACED HOUSES	NORTH YORKSHIRE
	CATTERICK ROAD CATTERICK GARRISON OLD HOSPITAL COMPOUND Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	10	
	Survey date: WEDNESDAY	10/05/17	Survey Type: MANUAL
38	SC-03-A-04	DETACHED & TERRACED	SURREY
	HIGH ROAD BYFLEET		
	Edge of Town Residential Zone		
	Total Number of dwellings:	71	
	Survey date: THURSDAY	23/01/14	Survey Type: MANUAL
39	SF-03-A-04	DETACHED & BUNGALOWS	SUFFOLK
	NORMANSTON DRIVE LOWESTOFT		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of dwellings:	7	
	Survey date: TUESDAY	23/10/12	Survey Type: MANUAL
40	SF-03-A-05	DETACHED HOUSES	SUFFOLK
	VALE LANE BURY ST EDMUNDS		
	Edge of Town Residential Zone		
	Total Number of dwellings:	18	
	Survey date: WEDNESDAY	09/09/15	Survey Type: MANUAL
41	SF-03-A-06	DETACHED & SEMI-DETACHED	SUFFOLK
	BURY ROAD KENTFORD		
	Neighbourhood Centre (PPS6 Local Centre) Village		
	Total Number of dwellings:	38	
	Survey date: FRIDAY	22/09/17	Survey Type: MANUAL
42	SH-03-A-05	SEMI-DETACHED/TERRACED	SHROPSHIRE
	SANDCROFT TELFORD SUTTON HILL Edge of Town Residential Zone		
	Total Number of dwellings:	54	
	Survey date: THURSDAY	24/10/13	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

43	SH-03-A-06 ELLESMERE ROAD SHREWSBURY	BUNGALOWS	SHROPSHIRE
	Edge of Town Residential Zone Total Number of dwellings: 16 Survey date: THURSDAY 22/05/14		Survey Type: MANUAL
44	SM-03-A-01 WEMBDON ROAD BRIDGWATER NORTHFIELD	DETACHED & SEMI	SOMERSET
	Edge of Town Residential Zone Total Number of dwellings: 33 Survey date: THURSDAY 24/09/15		Survey Type: MANUAL
45	ST-03-A-07 BEACONSIDE STAFFORD MARSTON GATE	DETACHED & SEMI-DETACHED	STAFFORDSHIRE
	Edge of Town Residential Zone Total Number of dwellings: 248 Survey date: WEDNESDAY 22/11/17		Survey Type: MANUAL
46	SY-03-A-01 A19 BENTLEY ROAD DONCASTER BENTLEY RISE	SEMI DETACHED HOUSES	SOUTH YORKSHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 54 Survey date: WEDNESDAY 18/09/13		Survey Type: MANUAL
47	TW-03-A-02 WEST PARK ROAD GATESHEAD	SEMI-DETACHED	TYNE & WEAR
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 16 Survey date: MONDAY 07/10/13		Survey Type: MANUAL
48	WK-03-A-01 ARLINGTON AVENUE LEAMINGTON SPA	TERRACED/SEMI/DET.	WARWICKSHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 6 Survey date: FRIDAY 21/10/11		Survey Type: MANUAL
49	WK-03-A-02 NARBERTH WAY COVENTRY POTTERS GREEN	BUNGALOWS	WARWICKSHIRE
	Edge of Town Residential Zone Total Number of dwellings: 17 Survey date: THURSDAY 17/10/13		Survey Type: MANUAL
50	WL-03-A-02 HEADLANDS GROVE SWINDON	SEMI DETACHED	WILTSHIRE
	Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 27 Survey date: THURSDAY 22/09/16		Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

51	WM-03-A-04	TERRACED HOUSES	WEST MIDLANDS
	OSBORNE ROAD COVENTRY EARLSDON Neighbourhood Centre (PPS6 Local Centre) Residential Zone Total Number of dwellings: 39 Survey date: MONDAY 21/11/16		Survey Type: MANUAL
52	WO-03-A-07	MIXED HOUSES	WORCESTERSHIRE
	TEASEL WAY WORCESTER CLAINES Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 146 Survey date: TUESDAY 26/06/18		Survey Type: MANUAL
53	WS-03-A-04	MIXED HOUSES	WEST SUSSEX
	HILLS FARM LANE HORSHAM BROADBRIDGE HEATH Edge of Town Residential Zone Total Number of dwellings: 151 Survey date: THURSDAY 11/12/14		Survey Type: MANUAL
54	WS-03-A-05	TERRACED & FLATS	WEST SUSSEX
	UPPER SHOREHAM ROAD SHOREHAM BY SEA Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: 48 Survey date: WEDNESDAY 18/04/12		Survey Type: MANUAL
55	WS-03-A-06	MIXED HOUSES	WEST SUSSEX
	ELLIS ROAD WEST HORSHAM S BROADBRIDGE HEATH Edge of Town Residential Zone Total Number of dwellings: 805 Survey date: THURSDAY 02/03/17		Survey Type: MANUAL
56	WS-03-A-07	BUNGALOWS	WEST SUSSEX
	EMMS LANE NEAR HORSHAM BROOKS GREEN Neighbourhood Centre (PPS6 Local Centre) Village Total Number of dwellings: 57 Survey date: THURSDAY 19/10/17		Survey Type: MANUAL
57	WS-03-A-08	MIXED HOUSES	WEST SUSSEX
	ROUNDSTONE LANE ANGMERING Edge of Town Residential Zone Total Number of dwellings: 180 Survey date: THURSDAY 19/04/18		Survey Type: MANUAL
58	WS-03-A-09	MIXED HOUSES & FLATS	WEST SUSSEX
	LITTLEHAMPTON ROAD WORTHING WEST DURRINGTON Edge of Town Residential Zone Total Number of dwellings: 197 Survey date: THURSDAY 05/07/18		Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

59	WS-03-A-10	MIXED HOUSES	WEST SUSSEX
	TODDINGTON LANE		
	LITTLEHAMPTON		
	WICK		
	Edge of Town		
	Residential Zone		
	Total Number of dwellings:	79	
	Survey date: WEDNESDAY	07/11/18	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 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED

MULTI-MODAL VEHICLES**Calculation factor: 1 DWELLS****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
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	59	96	0.074	59	96	0.293	59	96	0.367
08:00 - 09:00	59	96	0.122	59	96	0.360	59	96	0.482
09:00 - 10:00	59	96	0.138	59	96	0.157	59	96	0.295
10:00 - 11:00	59	96	0.122	59	96	0.150	59	96	0.272
11:00 - 12:00	59	96	0.131	59	96	0.144	59	96	0.275
12:00 - 13:00	59	96	0.148	59	96	0.143	59	96	0.291
13:00 - 14:00	59	96	0.155	59	96	0.150	59	96	0.305
14:00 - 15:00	59	96	0.151	59	96	0.173	59	96	0.324
15:00 - 16:00	59	96	0.242	59	96	0.163	59	96	0.405
16:00 - 17:00	59	96	0.260	59	96	0.161	59	96	0.421
17:00 - 18:00	59	96	0.320	59	96	0.142	59	96	0.462
18:00 - 19:00	59	96	0.274	59	96	0.160	59	96	0.434
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.137			2.196			4.333

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.

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Parameter summary

Trip rate parameter range selected:	6 - 805 (units:)
Survey date date range:	01/01/11 - 20/11/18
Number of weekdays (Monday-Friday):	59
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	3
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.