

NEWRIVER RETAIL

PROPOSED CONVENIENCE FOODSTORE DEVELOPMENT, FIVE CROSSES INN, MINERA

NOTE 002 (T29) - RESPONSE TO WCBC HIGHWAYS COMMENTS

23RD OCTOBER 2015

Introduction

This technical note has been produced to respond to comments made by Peter Douthwaite (PD) at Wrexham County Borough Council (WCBC) on 15th and 29th September 2015 associated with NewRiver Retail's proposals for a convenience foodstore development located at The Five Crosses Inn, Minera. WCBC's comments also relate to Connect Consultants' August 2015 Transport Statement.

WCBC's comments are provided below, followed by a response from Connect in each case.

WCBC 15/09/15 Comment 1 – Part 1

Proposed Parking Provision

It is proposed to reduce the number of parking spaces at the site (currently serving the public house) from 34 to 18 no. spaces to serve both the existing public house and proposed retail unit.

The proposed convenience store has a gross floor area of 325m². Based on A1 Shop Use, LPGN 16 would normally require 1 car space per 14m² GFA equating to the requirement of a maximum of 23 spaces. However, only 9 out of the 18 no. spaces are proposed for use by the retail unit.

I understand that up to 20 no. staff will be employed at the proposed retail unit. It is assumed that a proportion of these staff will own cars and will park within the proposed car park which will leave less than 9 spaces available for customers visiting the site.

Based on previous information provided at a similar application site (ie/ planning ref: P/2014/0868 – Kingsmill Hotel, Kingsmills Road, Wrexham), it is suggested that 3 of the 20 no. proposed staff would travel by car and require a parking space. Based on this assumption, only 6 no. spaces would be available for customers visiting the retail unit at the Five Crosses site which is considered unacceptable.

The applicant has included a parking survey relating to available on-street parking capacity along Ruthin Road, Minera Hall Road, Nant Lais, Gwernygaseg Road, Talwrn Road, Five Crosses Car Park, Bryn Hyfryd and sections of carriageway within the Minera Industrial Estate (unadopted). It is suggested that 255 parking spaces could be accommodated along these roads making parking provision acceptable at the development site in the context of the availability of these on-street parking spaces. This survey incorrectly appears to include areas that are not highway eg/ Five Crosses Industrial Estate, sections of highway subject to double yellow lines and several junctions, where parking would not be permitted.

The submitted Transport Statement also includes a survey of parking demand over 3 selected days within the public house car park. It is reported that a maximum of 7 cars were parked in the existing car park at any one time during the survey. I assume that at least 2 cars associated with staff working at the pub will be parked within the car park leaving only 7 parking spaces for customers visiting the pub. There would also appear to be limited parking for one vehicle to the side of the public house off Gwernygaseg Road.

There are currently 34 parking spaces provided within the public house car park. I understand that the existing public house has a public floor space of 78.6m². Based on A3 Use – LPGN 16 would require a maximum of 1 space per 4m² public floor space. This would equate to a maximum requirement of 20 spaces.

WCBC 15/09/15 Comment 1 – Part 2

It is unclear from the submitted information as to whether the public house is utilized on occasion for any functions that may attract additional customers ie/ parties, christenings, watching of live football matches etc, which are likely to result in an increased parking demand at the premises.

The submitted Transport Statement also includes a parking survey conducted at the Co-operative Store @ 50 Wrexham Road, Rhosyllen. This store is located on a busy, classified road where the main road and side roads in close proximity to the shop are protected with double yellow lines. The shop has a gross floor area of approximately of 279m². Based on A1 Shop Use, LPGN 16 would normally require 1 car space per 14m² GFA equating to the requirement of a maximum of 20 spaces. This unit appears to have 8 no. parking spaces. I understand that the maximum recorded parking demand during the survey was 9 no. cars. However, having spoken with our Parking Enforcement Section, I understand that several requests have been made for our officers to observe this site due to complaints of indiscriminate parking in this area by customers visiting the shop. This would appear to suggest that the existing car park has insufficient capacity for customers.

Any proposed development would be expected to provide adequate parking provision within the curtilage of the site. The reliance on customers parking along the existing streets would be considered unacceptable particularly given the busy crossroads arrangement in this location. The proposed retail unit will include an ATM facility which is located in close proximity to the adjoining highway. I assume that anybody visiting the site to use this facility may well park directly outside the premises on Ruthin Road rather than park within the car park particularly if it is full. Any on-street parking in this location in close proximity to the existing crossroads would be incompatible with through traffic interests and a potential source of danger to road users.

In summary, the overall development (ie/ public house and retail unit) would normally require a maximum of 43 spaces. However, only 18 spaces are proposed which represents a 58% shortfall in parking provision compared with maximum standards. The proposed level of parking provision at the development site is considered to be inadequate.

CCL Comment 1

The parking assessment included in the August 2015 Transport Assessment identifies a maximum accumulation of 9 cars for the convenience store, 7 vehicles for the public house, and a maximum combined accumulation of 15 vehicles. The proposed car park has 18 spaces.

PD identifies that at a different convenience store site, 3 spaces were intended to be used by staff members. Whilst the use of the car park by staff members is inherent within all the survey data presented in Connect's analysis (and which shows the car park operating within capacity), the applicant is willing to suitably control the use of the car park by staff as part of the future employment Travel Plan.

PD has stated that the on-street parking survey includes areas that are unadopted along with junctions and areas of double-yellow markings where parking may be inappropriate. The parking survey at section 3.7 of the August 2015 TA has been reanalysed for the following streets, which includes only the locations where parking is already permitted by Wrexham Borough Council. A copy of this information is provided at **Appendix 1** of this note.

Table 1 – Parking Data

Location	Available Spaces to Park Legally	Maximum Occupancy during Parking Survey
Bryn Hyfryd	12 on-street spaces – parking permitted	9
Gwernygaseg Road	36 parking bays	17
First c65m of Nant Lais	5 on-street spaces – parking permitted	3
Ruthin Road	27 parking bays	5
Talwrn Road	35 parking bays	10
Total	115	44 (maximums do not occur at the same time)

Clearly, there is significant additional parking capacity located near to the proposal site.

PD assumes that 2 of the public house spaces will be used by members of staff. This could be true, but the use of the car park by staff is already inherent in the survey data, which shows a maximum accumulation of only 7 parked cars. The average public house accumulation across the survey period was just 2.8 vehicles. Clearly the proposed shared provision of 18 spaces supports the anticipated demand for the on-site uses.

PD states that the parking survey at the Cooperative store at Wrexham Road, Rhostyllen suggests that there is additional demand, and that parking enforcement is being considered as a means to control parking. The survey at the Rhostyllen store shows a maximum of only 9 cars at any one time which supports the TRICS assessment. The proposed store will have a minimum of at least (18 – 7 =) 11 parking spaces available.

Additionally, PD highlighted that WCBC consider parking restrictions as a means to control parking on roads where such parking is deemed unsuitable. This is unnecessary in this case because the car park is shown to operate within capacity, and there are suitable other parking locations available close to the site.

A number of the TRICS sites used for the assessment of trip attraction include cash points and therefore the assertion that drivers will park on the road adjacent to the site is premised on the car park being full, and that suitable parking is not available nearby; the statement is therefore unfounded.

PD's comments are speculative, and other than a maximum standard, the authority does not present any evidence or reasoning to suggest that the assessments provided in the August 2015 Transport Assessment (or previous submissions) are unsuitable. Therefore, the proposed development 1. provides sufficient parking to support the development, 2. accords with the WCBC parking standards, and 3. there is additional legal parking located very close to the development.

WCBC 15/09/15 Comment 2

Turning Provision

The submitted Transport Statement includes the swept path details of a 10m long (HGV) delivery vehicle. I assume that a dray wagon also services the public house via the existing car park which is of a similar size plus smaller vans for food supplies.

If such a vehicle arrives / parks within the car park to service the retail unit, it would appear that at least 9 spaces are blocked / lost whilst the deliveries take place. I understand that dwell times are around 30 - 40 minutes, with 1 - 2 deliveries occurring per day. The overall car park is then only capable of accommodating 9 cars during this period.

If a dray wagon arrives / parks within the car park to service the public house, it would appear that at least 7 spaces are blocked / lost whilst the deliveries take place, with 1 delivery occurring per week. I understand that dwell times are around 30 minutes. The overall car park is then only capable of accommodating 11 cars during this period (or 2 spaces actually allocated to the public house).

If both delivery truck and dray wagon arrive together and park within the proposed car park, then only a maximum of 2 parking spaces for cars would be available in the overall car park for a given time. However, I assume that this scenario could be avoided / managed by a suitable Service & Delivery Management Plan. However, the loss of approximately half of the proposed car parking spaces during deliveries is of concern and may well result in customers parking along the adjoining highway.

Swept path analysis plans showing a 10m rigid HGV have been included in the Transport Statement. The movements indicated out of the access in the south easterly direction demonstrate a significant encroachment of the vehicle onto the opposite lane which is not ideal.

CCL Comment 2

As stated by PD, the servicing can be suitably managed to avoid the busier periods within the car park. The applicant is willing to provide a Service and Delivery Management Plan as suggested.

It should be noted that during convenience store deliveries only 4 spaces are blocked, and during public house deliveries only 4 spaces are blocked. This is demonstrated on the plans provided at **Appendix 2**.

The positioning of delivery vehicles can be controlled as part of the management plan.

WCBC 15/09/15 Comment 3

Travel Plan

If the application was to be supported then I would recommend that a Final Travel Plan is submitted after 6 months of the first use of the development.

CCL Comment 3

The applicant is agreeable to an employment Travel Plan.

WCBC 15/09/15 Comment 4

Service & Delivery Management Plan

If the application was to be supported then I would recommend that the applicant submits a Service & Delivery Management Plan detailing how and when deliveries will take place without impeding parking / access within the site. However, I assume that deliveries will only be permitted in normal working hours due to the nearby residential properties. Assuming this to be the case, then it is likely that conflict will occur between delivery vehicles and cars wishing to utilize the car park.

CCL Comment 4

As above, the applicant is willing to provide a Service and Delivery Management Plan as suggested.

The parking assessment identifies a maximum convenience store accumulation of just 6 vehicles before midday, and a maximum combined accumulation of just 8 vehicles after 19:00. Clearly, there will be suitable periods for both the store and public house to suitably service their units.

WCBC 15/09/15 Comment 5

Recycling / Refuse Collection

I assume that both the proposed retail store and public house would be serviced by a private refuse management company using appropriately sized vehicles which could turn within the car park and exit in a forward gear.

CCL Comment 5

A private management company would service the site, and some waste would be collected privately. Some waste will be stored in external bins and collected by standard refuse collection vehicles.

A swept path for a refuse vehicle accessing the site is provided at **Appendix 3**. Again, access to the site by private refuse vehicles will be controlled through the use of the management plan.

WCBC 15/09/15 Comment 6

Pedestrian Access

Existing pedestrian access to the site via Gwernygaseg Road, Talwrn Road, Ruthin Road (south) and Minera Hall Road is relatively poor. There is a lack of adequate footways and pedestrian crossing facilities (eg/ pedestrian refuges) in close proximity to the site which would be of concern given the busy nature of Ruthin Road.

The submitted Transport Statement does not appear to offer any pedestrian improvements which could make accessing the site safer / more convenient for pedestrians.

The comment above is superseded by the WCBC 29th September 2015 comment below.

WCBC 29/09/15 Comment 1

Pedestrian Access

Existing pedestrian access to the site via Gwernygaseg Road, Talwrn Road, Ruthin Road (south) and Minera Hall Road is relatively poor. There is a lack of adequate footways and pedestrian crossing facilities (eg/ pedestrian refuges) in close proximity to the site which would be of concern given the busy nature of Ruthin Road.

The submitted layout plan appears to offer some degree of pedestrian improvements along Gwernygaseg Road in the form of additional footway provision and a pedestrian crossing facility (dropped kerb) fronting the site across Ruthin Road. However, given the busy nature of the Five Crosses junction, I would normally expect a development of this nature to provide additional pedestrian refuges (min. 1.8m wide) at suitable locations across both Ruthin Road (fronting the development site) and Minera Hall Road.

The provision of such facilities are likely to require the widening of a section of Ruthin Road and provision of a 2.0m wide footway on the western side of Ruthin Road. Consideration would need to be given to turning movements of larger HGVs in respect of any pedestrian refuges.

However, even with such improvements, I would not wish to support a development of this nature in this location for the reasons stated in my memo dated 15th September 2015.

CCL Comment 7

The applicant is willing to provide the suggested pedestrian improvements. The drawing provided at **Appendix 4** identifies the proposed site access arrangements including new pedestrian refuge islands and tactile paving. **Appendix 4** also includes a swept path analysis of the proposed arrangements.

Appendix 1

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 30.05.2014
Survey Type: Parking Beat
Road Name: Bryn Hyfryd

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Shared User: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

Narrow Road

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas													Illegal Parking Areas								
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	12	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0
Total Legal Spaces														12	Total Illegal Spaces						9	

Parking Beat Data

	Legal Parking Areas													Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress	
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear					Bus Stop
12:00	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	33%	4	33%
13:00	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	33%	4	33%
14:00	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	50%	6	50%
15:00	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	50%	6	50%
16:00	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	75%	9	75%
17:00	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	67%	8	67%
18:00	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	67%	8	67%
19:00	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	58%	7	58%
20:00	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	58%	7	58%
21:00	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	50%	6	50%

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 30.05.2014
Survey Type: Parking Beat
Road Name: Gwernygaseg Road

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Shared User: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

None

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas													Illegal Parking Areas								
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Legal Spaces														36	Total Illegal Spaces							0

Parking Beat Data

	Legal Parking Areas														Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop				
12:00	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	31%	11	31%
13:00	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	31%	11	31%
14:00	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	33%	12	33%
15:00	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	39%	14	39%
16:00	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	28%	10	28%
17:00	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	28%	10	28%
18:00	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	36%	13	36%
19:00	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	39%	14	39%
20:00	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	44%	16	44%
21:00	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	42%	15	42%

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 30.05.2014
Survey Type: Parking Beat
Road Name: Nant Lais

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Shared User: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

None

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas													Illegal Parking Areas								
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Total Legal Spaces													5	Total Illegal Spaces							2	

Parking Beat Data

	Legal Parking Areas														Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress		
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop						
12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%	
13:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%
14:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	40%	2	40%	
15:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	20%	1	20%	
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%	
17:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	20%	1	20%	
18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%	
19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%	
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%	
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 30.05.2014
Survey Type: Parking Beat
Road Name: Ruthin Road

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Shared User: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

Part of the road is narrow

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas													Illegal Parking Areas								
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	69	27	0	0	0	0	0	0	0	0	0	0	M/C Bays		10	0	0	0	0	0	0	10
Total Legal Spaces													96									
													Total Illegal Spaces									
													10									

Parking Beat Data

	Legal Parking Areas													Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress	
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear					Bus Stop
12:00	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5%	5	5%
13:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3%	3	3%	
14:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2%	2	2%	
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%
16:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3%	3	3%	
17:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1%	1	1%	
18:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3%	3	3%	
19:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1%	1	1%	
20:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2%	2	2%	
21:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2%	2	2%	

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 30.05.2014
Survey Type: Parking Beat
Road Name: Talwrn Road

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Parking Bays: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

None

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas														Illegal Parking Areas							
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	20	35	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Total Legal Spaces														55	Total Illegal Spaces							4

Parking Beat Data

	Legal Parking Areas														Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop				
12:00	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	15%	8	15%
13:00	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9%	5	9%
14:00	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11%	6	11%
15:00	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11%	6	11%
16:00	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9%	5	9%
17:00	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	15%	8	15%
18:00	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	16%	9	16%
19:00	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	15%	8	15%
20:00	1	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	20%	11	20%
21:00	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	15%	8	15%

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 31.05.2014
Survey Type: Parking Beat
Road Name: Bryn Hyfryd

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Shared User: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

Narrow Road

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas														Illegal Parking Areas							
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	12	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0
Total Legal Spaces														12	Total Illegal Spaces							9

Parking Beat Data

	Legal Parking Areas														Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop				
12:00	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	25%	3	25%
13:00	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	50%	6	50%	
14:00	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	50%	6	50%	
15:00	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	50%	6	50%	
16:00	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	33%	4	33%	
17:00	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	50%	6	50%	
18:00	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	58%	7	58%	
19:00	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	42%	5	42%	
20:00	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	50%	6	50%	
21:00	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	50%	6	50%	

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 31.05.2014
Survey Type: Parking Beat
Road Name: Gwernygaseg Road

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Shared User: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

None

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas													Illegal Parking Areas								
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Legal Spaces														36	Total Illegal Spaces							0

Parking Beat Data

	Legal Parking Areas														Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop				
12:00	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	33%	12	33%
13:00	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	39%	14	39%
14:00	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	39%	14	39%
15:00	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	36%	13	36%
16:00	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	42%	15	42%
17:00	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	36%	13	36%
18:00	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	31%	11	31%
19:00	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	47%	17	47%
20:00	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	47%	17	47%
21:00	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	47%	17	47%

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 31.05.2014
Survey Type: Parking Beat
Road Name: Nant Lais

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Shared User: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

None

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas														Illegal Parking Areas							
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Total Legal Spaces														5	Total Illegal Spaces							2

Parking Beat Data

	Legal Parking Areas														Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress	
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop					
12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%
13:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	20%	1	20%
14:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	40%	2	40%
15:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	20%	1	20%
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%
18:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	20%	1	20%
19:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	20%	1	20%
20:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	20%	1	20%
21:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	20%	1	20%

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 31.05.2014
Survey Type: Parking Beat
Road Name: Ruthin Road

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Shared User: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

Part of the road is narrow

Aerial View:



Street View:



Parking Inventory

Parking Type	Legal Parking Areas														Illegal Parking Areas										
	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop			
	Number of Spaces	69	27	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0			
Total Legal Spaces														96		Total Illegal Spaces								10	

Parking Beat Data

Time	Legal Parking Areas														Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress	
	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop					
12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%
13:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1%	1	1%
14:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2%	2	2%
15:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2%	2	2%
16:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3%	3	3%
17:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3%	3	3%
18:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3%	3	3%
19:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1%	1	1%
20:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2%	2	2%
21:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2%	2	2%

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 31.05.2014
Survey Type: Parking Beat
Road Name: Talwrn Road

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Parking Bays: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

None

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas														Illegal Parking Areas							
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	20	35	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Total Legal Spaces														55	Total Illegal Spaces							4

Parking Beat Data

	Legal Parking Areas														Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop				
12:00	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	13%	7	13%
13:00	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	15%	8	15%
14:00	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	18%	10	18%
15:00	1	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	20%	11	20%
16:00	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	13%	7	13%
17:00	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	16%	9	16%
18:00	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	18%	10	18%
19:00	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	18%	10	18%
20:00	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	13%	7	13%
21:00	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	13%	7	13%

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 01.06.2014
Survey Type: Parking Beat
Road Name: Bryn Hyfryd

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Shared User: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

Narrow Road

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas														Illegal Parking Areas							
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	12	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0
Total Legal Spaces														12	Total Illegal Spaces							9

Parking Beat Data

	Legal Parking Areas														Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop				
12:00	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	25%	3	25%
13:00	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	33%	4	33%	
14:00	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	42%	5	42%	
15:00	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	58%	7	58%	
16:00	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	42%	5	42%	

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 01.06.2014
Survey Type: Parking Beat
Road Name: Gwernygaseg Road

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Shared User: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

None

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas														Illegal Parking Areas										
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop			
Number of Spaces	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total Legal Spaces														36		Total Illegal Spaces								0	

Parking Beat Data

	Legal Parking Areas														Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop				
12:00	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	42%	15	42%
13:00	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	44%	16	44%
14:00	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	44%	16	44%
15:00	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	47%	17	47%
16:00	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	44%	16	44%

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 01.06.2014
Survey Type: Parking Beat
Road Name: Nant Lais

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Shared User: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

None

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas														Illegal Parking Areas							
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Total Legal Spaces														5	Total Illegal Spaces							2

Parking Beat Data

	Legal Parking Areas														Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop				
12:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	20%	1	20%
13:00	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	60%	3	60%
14:00	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	60%	3	60%
15:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	40%	2	40%
16:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	40%	2	40%

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 01.06.2014
Survey Type: Parking Beat
Road Name: Ruthin Road

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Shared User: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

Part of the road is narrow

Aerial View:



Street View:



Parking Inventory

	Legal Parking Areas														Illegal Parking Areas							
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	69	27	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10
Total Legal Spaces														96	Total Illegal Spaces						10	

Parking Beat Data

	Legal Parking Areas													Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress	
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop				
12:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2%	2	2%
13:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%
14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%	0	0%

Intelligent Data Collection Limited



Client: Connect Consultants Ltd
Project Number: ID01961
Date of Survey: 01.06.2014
Survey Type: Parking Beat
Road Name: Talwrn Road

Prepared by: Sanjay Munigeti
Checked by: Luke Martin

Parking Restrictions:

Parking Bays: No restrictions
 Pay and Display: No restrictions
 Permit Holders: No restrictions
 Resident Permits: No restrictions
 Loading Bays: No restrictions
 Single Yellow: No restrictions

Notes (reasons for any overstress and details of 'Other' parking types):

None

Aerial View:



Street View:



Parking Inventory

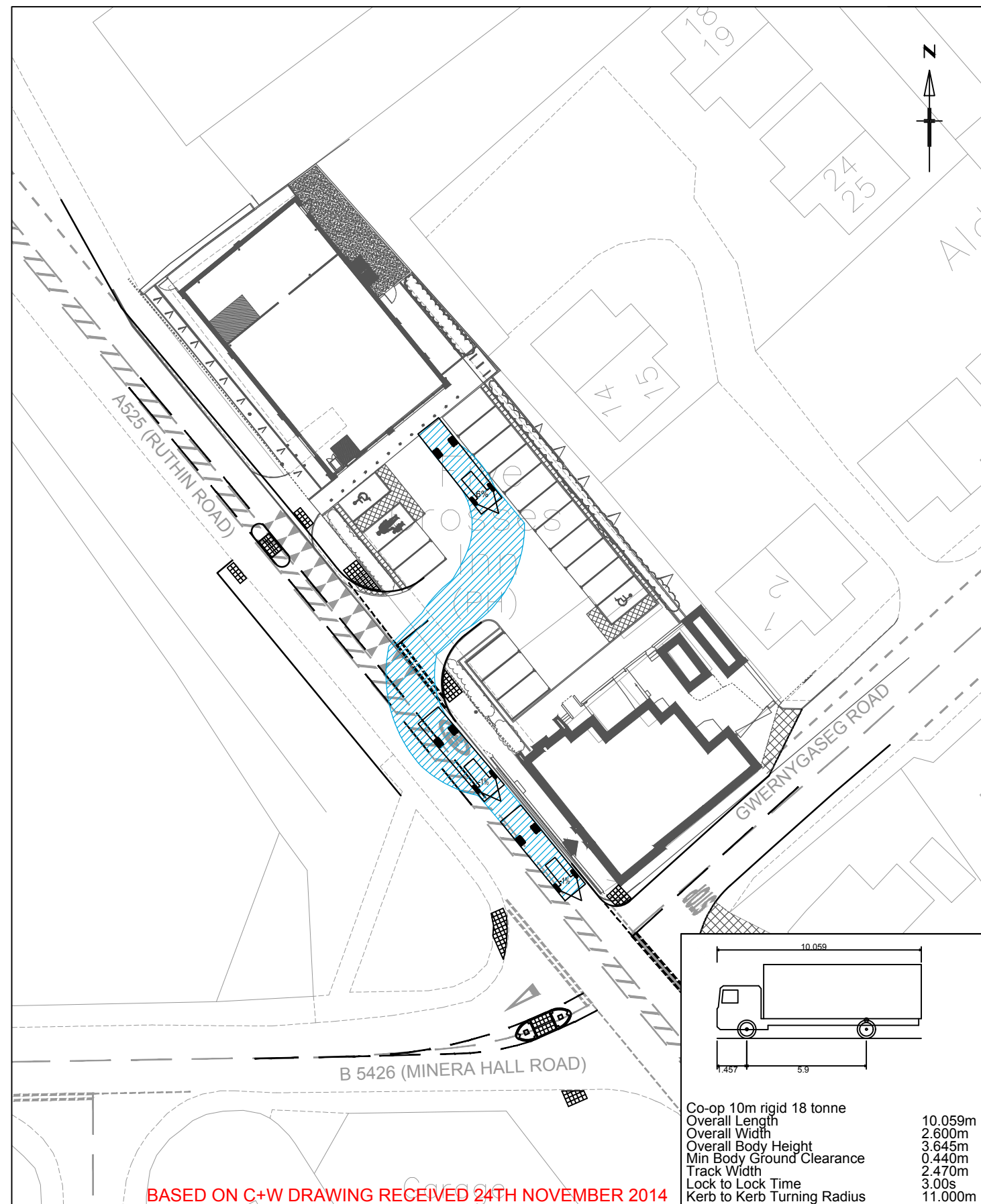
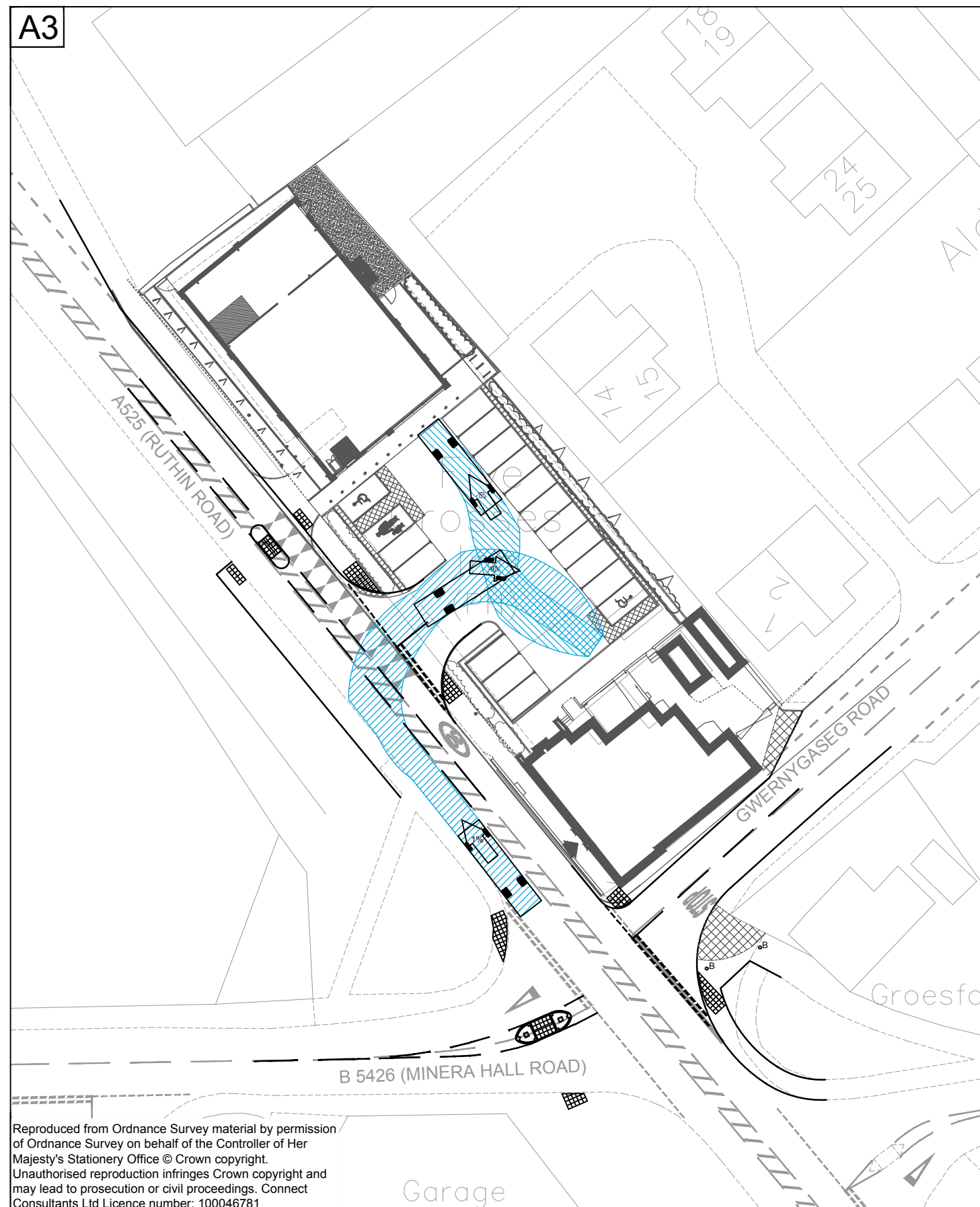
	Legal Parking Areas														Illegal Parking Areas							
Parking Type	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop
Number of Spaces	20	35	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Total Legal Spaces														55	Total Illegal Spaces							4

Parking Beat Data

	Legal Parking Areas														Illegal Parking Areas								Legally Parked Vehicles	Legal Parking Stress	Total Parked Vehicles	Total Parking Stress
Time	No Lines	Parking Bays	Shared User	Pay and Display	Permit Holders	Resident Permits	Free Bays	Car Club	Disabled Bays	Doctor Bays	Loading Bays	M/C Bays	Single Yellow	Other (Specify)	Driveway	Driveway / SYL	Single Yellow	Double Yellow	Single Red	Double Red	Keep Clear	Bus Stop				
12:00	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	16%	9	16%
13:00	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	16%	9	16%
14:00	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	16%	9	16%
15:00	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	13%	7	13%
16:00	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	13%	7	13%

Appendix 2

A3



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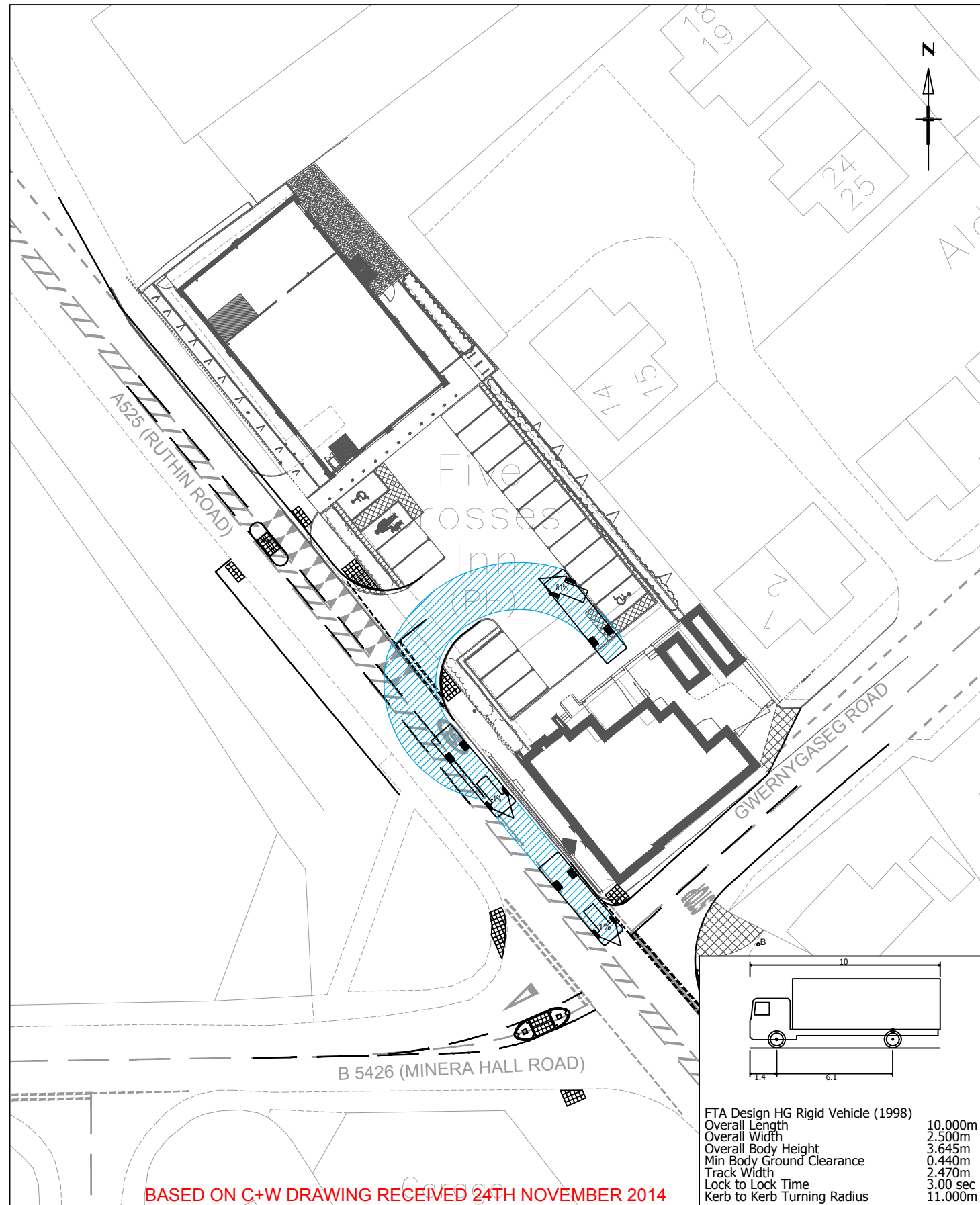
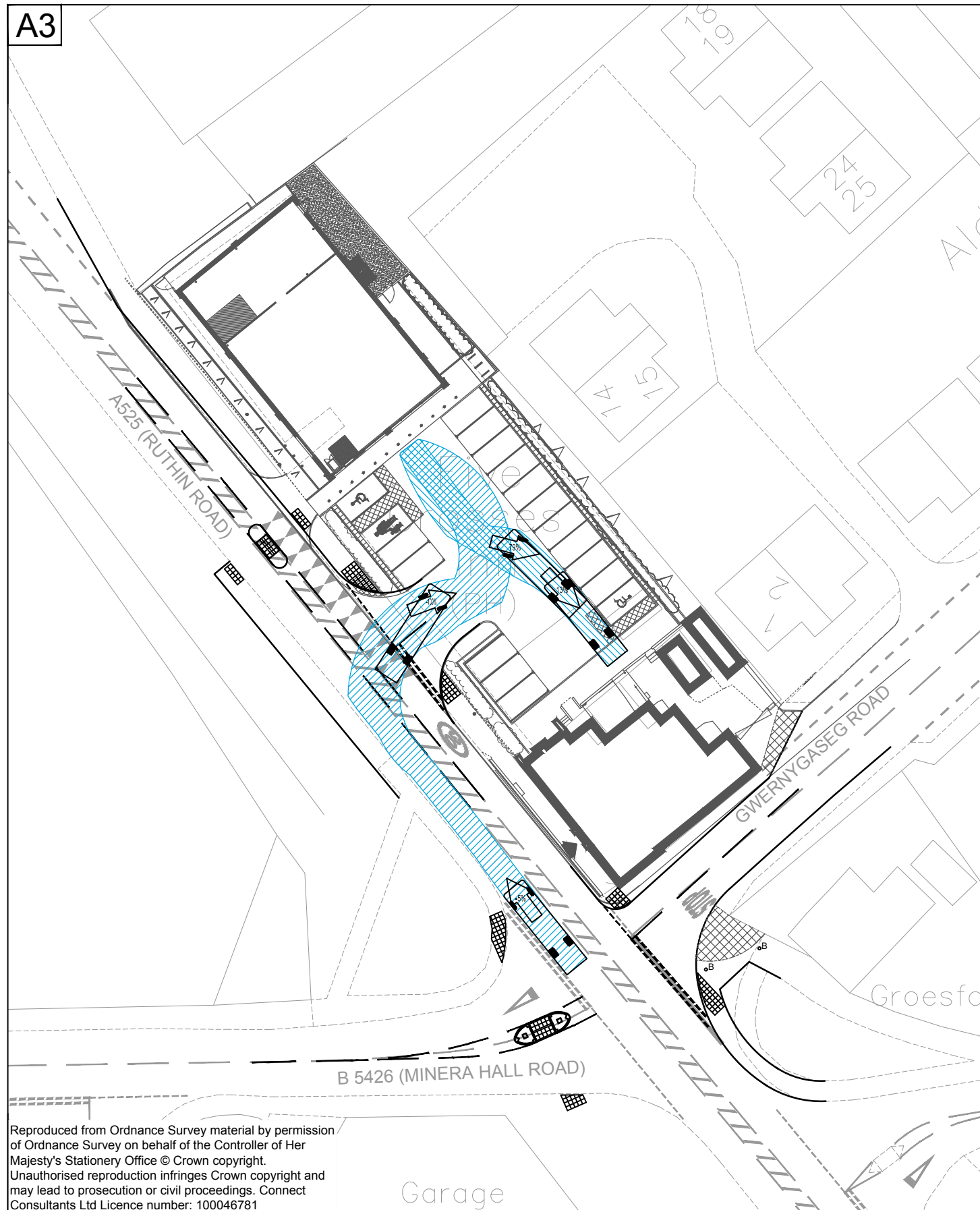
client
 NEWRIVER RETAIL

project
 PROPOSED DEVELOPMENT
 MINERA
 FIVE CROSSES

title
 SWEPT PATH ANALYSIS
 10m RIGID SERVICE VEHICLE

scale	drawn by	checked by
1:500	T.A.S	N.B
date	cad file	
OCT 15	14015-T29-TR001	
drawing number	rev.	
14015 - T29 - TR001	E	

A3



FTA Design HG Rigid Vehicle (1998)	10.000m
Overall Length	2.500m
Overall Width	3.645m
Overall Body Height	0.440m
Min Body Ground Clearance	2.470m
Track Width	3.00 sec
Lock to Lock Time	11.000m
Kerb to Kerb Turning Radius	

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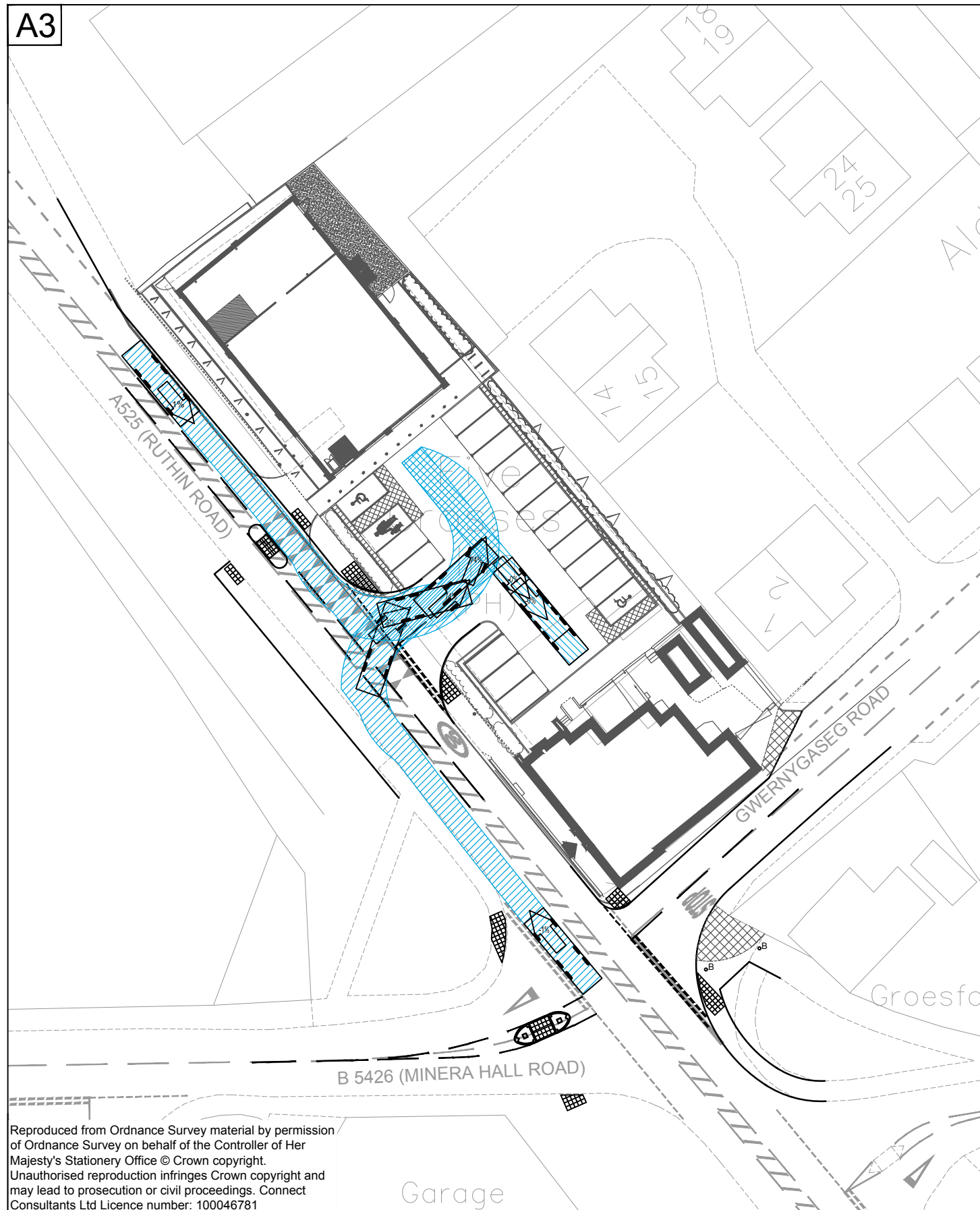
project
**PROPOSED DEVELOPMENT
MINERA
FIVE CROSSES**

title
**SWEPT PATH ANALYSIS
10m RIGID SERVICE VEHICLE
PUB DELIVERIES**

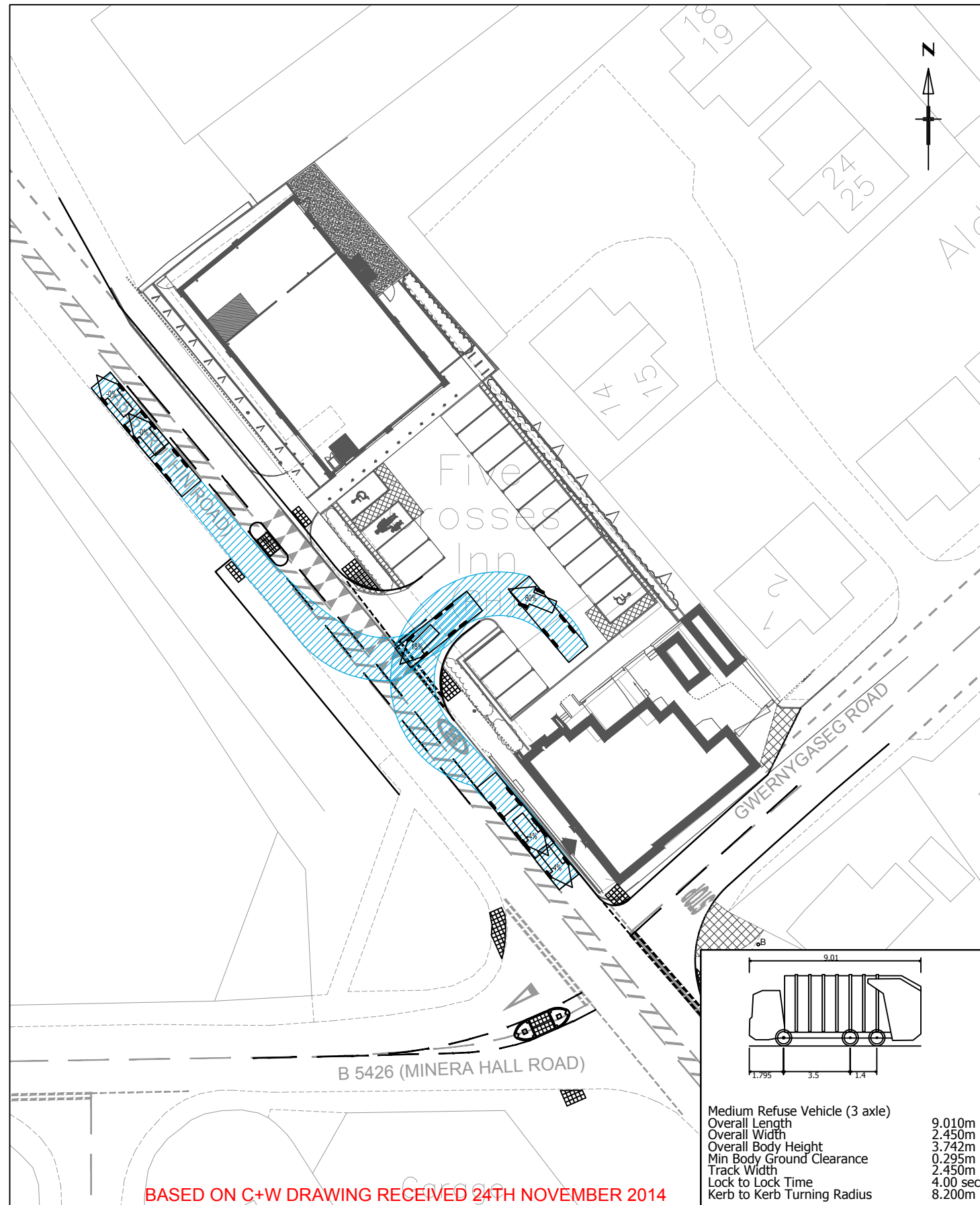
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drawing number	rev.	
14015 - T29 - TR003		

Appendix 3

A3



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BASED ON C+W DRAWING RECEIVED 24TH NOVEMBER 2014

Medium Refuse Vehicle (3 axle) Overall Length 9.010m Overall Width 2.450m Overall Body Height 3.742m Min Body Ground Clearance 0.295m Track Width 2.450m Lock to Lock Time 4.00 sec Kerb to Kerb Turning Radius 8.200m	

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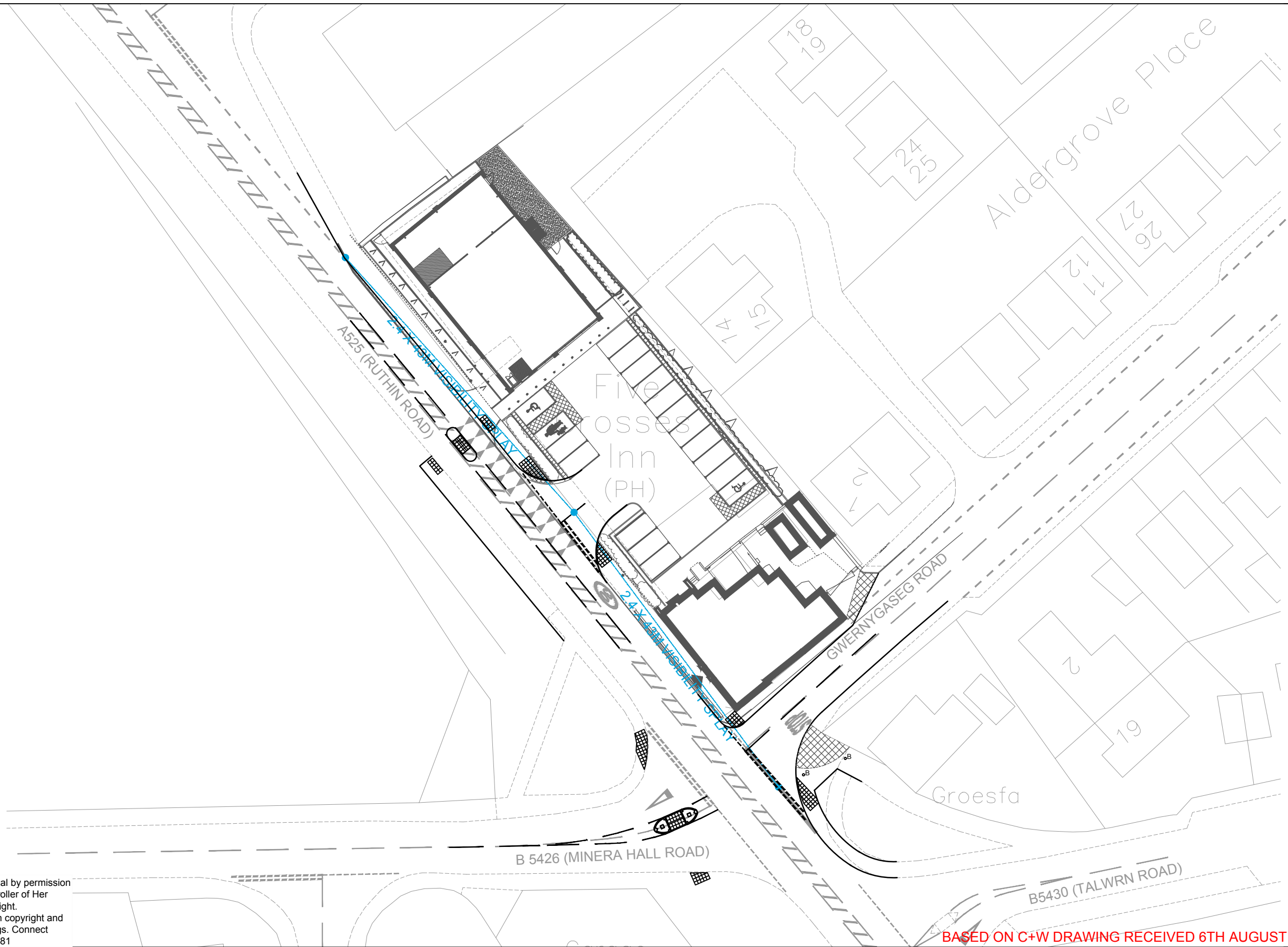
project
**PROPOSED DEVELOPMENT
MINERA
FIVE CROSSES**

title
**SWEPT PATH ANALYSIS
REFUSE VEHICLE**

scale 1:500	drawn by T.A.S	checked by N.B
date OCT 15	cad file 14015-T29-TR004	
drawing number 14015 - T29 - TR004	rev.	

Appendix 4

A3



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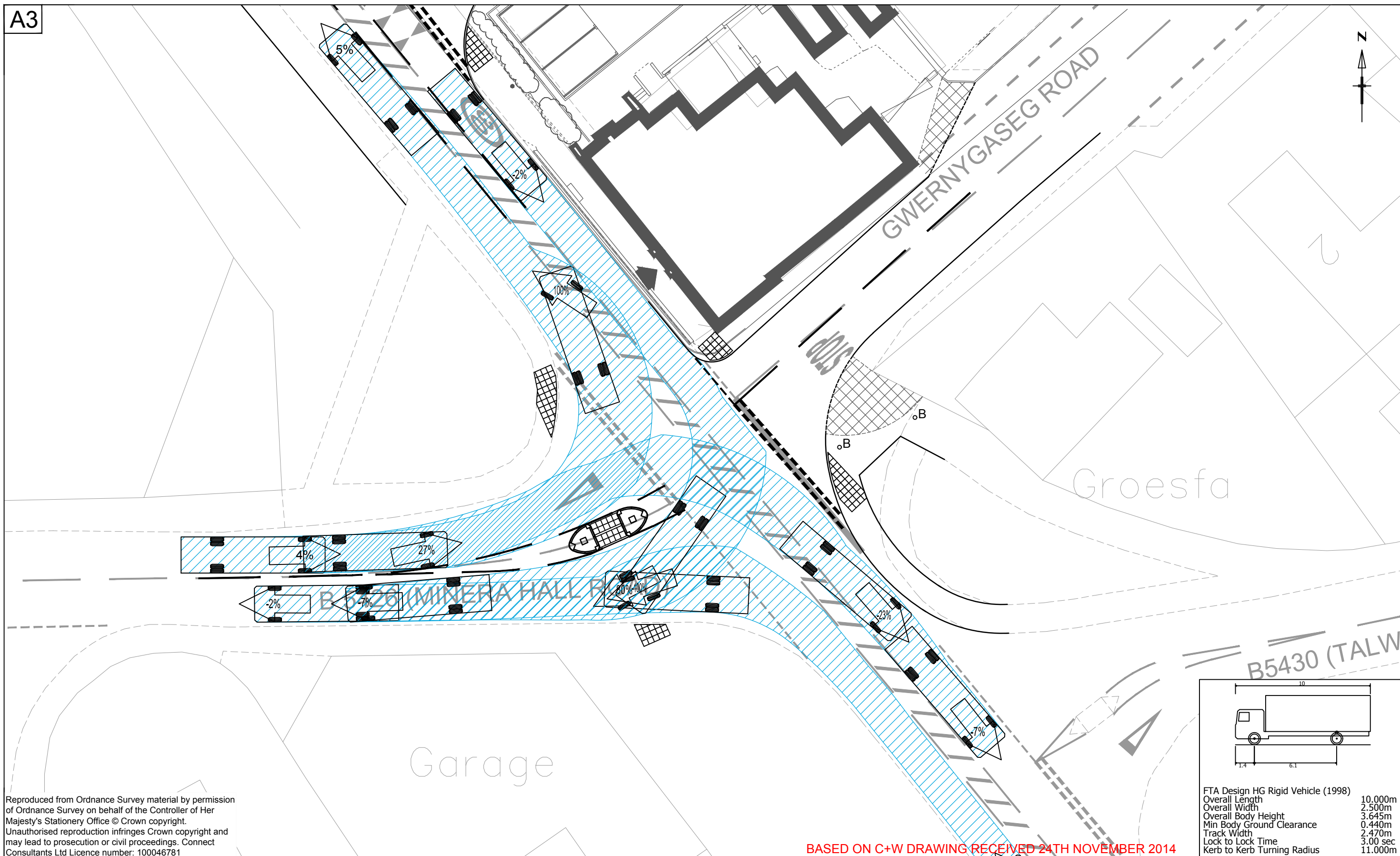
client
NEWRIVER RETAIL

project
**PROPOSED DEVELOPMENT
MINERA
FIVE CROSSES**

title
PROPOSED SITE ACCESS ARRANGEMENTS

scale	drawn by	checked by
1:500	T.A.S	N.B
date	cad file	
OCT 15	14015-T29-010	
drawing number	rev.	
14015 - T29 - 010	E	

A3



FTA Design HG Rigid Vehicle (1998)	10.000m
Overall Length	2.500m
Overall Width	3.645m
Overall Body Height	0.440m
Min Body Ground Clearance	2.470m
Track Width	3.00 sec
Lock to Lock Time	11.000m
Kerb to Kerb Turning Radius	

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project
**PROPOSED DEVELOPMENT
MINERA
FIVE CROSSES**

title
**SWEPT PATH ANALYSIS
10m RIGID VEHICLE**

scale	drawn by	checked by
1:250	T.A.S	N.B
date	cad file	
OCT 15	14015-T29-TR002	
drawing number	rev.	
14015 - T29 - TR002		